

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv013020\  
 Data File : VY001424.D  
 Acq On : 30 Jan 2020 12:33  
 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: Jan 30 12:56:56 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 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   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.594  | 10.8  | 91    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.776  | 12.4  | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.922  | 10.2# | 92    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.315  | 13.4  | 93    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.015  | 10.0  | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.431  | 5.1   | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 43.555  | 12.9  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.224  | 3.6   | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.298  | 9.4   | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 184.963 | 26.0# | 81    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.150  | 7.7#  | 96    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 278.710 | -11.5 | 124   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.856  | 8.3   | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 225.799 | 9.7   | 94    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 289.432 | -15.8 | 113   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.671  | 14.7  | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 42.821  | 14.4  | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 44.920  | 10.2  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 42.816  | 14.4  | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 44.772  | 10.5  | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 45.837  | 8.3   | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 228.908 | 8.4   | 94    | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.646  | 6.7   | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 241.104 | 3.6   | 101   | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.181  | 7.6   | 98    | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 45.630  | 8.7   | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 57.650  | -15.3 | 114   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 223.787 | 10.5  | 93    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 45.710  | 8.6#  | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.488  | 9.0   | 98    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.430  | 5.1   | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.137  | -2.3  | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 101   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.691  | -1.4  | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.357  | 7.3   | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 46.050  | 7.9   | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.441  | 5.1   | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.878  | 4.2   | 98    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 46.340  | 7.3   | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.051  | -0.1  | 109   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 45.084  | 9.8   | 93    | 0.01     |
| 43 T  | Isopropyl Acetate           | 50.000  | 45.962  | 8.1   | 93    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 45.418  | 9.2   | 96    | 0.01     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 46.513  | 7.0#  | 96    | 0.00     |

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 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 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) |
|-------|-----------------------------|----------|---------|------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 45.452  | 9.1  | 95    | 0.01     |
| 47 T  | Bromodichloromethane        | 50.000   | 45.745  | 8.5  | 95    | 0.01     |
| 48 T  | Methyl methacrylate         | 50.000   | 45.567  | 8.9  | 94    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 840.221 | 16.0 | 89    | 0.01     |
| 50 S  | Toluene-d8                  | 50.000   | 52.807  | -5.6 | 103   | 0.01     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 228.890 | 8.4  | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 46.100  | 7.8# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 45.891  | 8.2  | 93    | 0.01     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 45.983  | 8.0  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 45.836  | 8.3  | 94    | 0.01     |
| 56 T  | Ethyl methacrylate          | 50.000   | 46.367  | 7.3  | 95    | 0.01     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 45.745  | 8.5  | 94    | 0.01     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 240.972 | 3.6  | 115   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 246.300 | 1.5  | 99    | 0.01     |
| 60 T  | Dibromochloromethane        | 50.000   | 45.992  | 8.0  | 95    | 0.01     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 45.869  | 8.3  | 93    | 0.01     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.912  | 0.2  | 102   | 0.01     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.783  | 4.4  | 99    | 0.01     |
| 65 PM | Chlorobenzene               | 50.000   | 46.993  | 6.0  | 96    | 0.01     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 47.648  | 4.7  | 95    | 0.01     |
| 67 C  | Ethyl Benzene               | 50.000   | 47.535  | 4.9# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 95.029  | 5.0  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 47.374  | 5.3  | 96    | 0.01     |
| 70 T  | Styrene                     | 50.000   | 47.562  | 4.9  | 96    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 46.662  | 6.7  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 99    | 0.01     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.804  | 4.4  | 97    | 0.01     |
| 74 T  | N-amyl acetate              | 50.000   | 46.489  | 7.0  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.733  | 4.5  | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 42.659  | 14.7 | 85    | 0.01     |
| 77 T  | Bromobenzene                | 50.000   | 45.694  | 8.6  | 92    | 0.01     |
| 78 T  | n-propylbenzene             | 50.000   | 48.725  | 2.5  | 97    | 0.01     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.192  | 5.6  | 96    | 0.01     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.117  | 5.8  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.883  | 2.2  | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.328  | 5.3  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.549  | 4.9  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 46.912  | 6.2  | 95    | 0.01     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.059  | 1.9  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.496  | 3.0  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.963  | 6.1  | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 45.787  | 8.4  | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.927  | 2.1  | 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 | 48.387 | 3.2  | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 45.830 | 8.3  | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.598 | 10.8 | 92    | 0.01     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 45.770 | 8.5  | 96    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.412 | 7.2  | 95    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.246 | 7.5  | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 44.597 | 10.8 | 92    | 0.01     |

(#) = Out of Range

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