

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY091521\  
 Data File : VY006016.D  
 Acq On : 15 Sep 2021 10:06  
 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: Sep 16 01:21:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091421S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 15 05:01:47 2021  
 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   | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.048  | 13.9  | 96    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.350  | 13.3  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.663  | 10.7# | 98    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.912  | 10.2  | 101   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.675  | 10.7  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 44.881  | 10.2  | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 44.449  | 11.1  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 45.450  | 9.1   | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 41.058  | 17.9  | 84    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 139.366 | 44.3# | 71    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 43.941  | 12.1# | 95    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 229.873 | 8.1   | 92    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 43.720  | 12.6  | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 223.281 | 10.7  | 88    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 292.217 | -16.9 | 115   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.690  | 10.6  | 95    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 42.966  | 14.1  | 87    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 44.624  | 10.8  | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 43.041  | 13.9  | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 44.676  | 10.6  | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 43.974  | 12.1  | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 223.877 | 10.4  | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 44.224  | 11.6  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 243.339 | 2.7   | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.775  | 8.5   | 99    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 44.690  | 10.6  | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.458  | -0.9  | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 219.544 | 12.2  | 85    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 44.621  | 10.8# | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 43.706  | 12.6  | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 45.138  | 9.7   | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.519  | 5.0   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.737  | 0.5   | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.032  | 7.9   | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 44.309  | 11.4  | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.624  | 6.8   | 97    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.633  | 6.7   | 96    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 45.418  | 9.2   | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 41.849  | 16.3  | 78    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 44.443  | 11.1  | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 45.195  | 9.6   | 88    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 45.721  | 8.6   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 44.262  | 11.5# | 92    | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 45.373  | 9.3   | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 45.722  | 8.6   | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 46.060  | 7.9   | 88    | 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 : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.   | %Dev | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 1000.000 | 919.552 | 8.0  | 88    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.093  | -0.2 | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 225.491 | 9.8  | 87    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 46.018  | 8.0# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 45.770  | 8.5  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 45.529  | 8.9  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 45.929  | 8.1  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 45.749  | 8.5  | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 44.599  | 10.8 | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 237.672 | 4.9  | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 248.780 | 0.5  | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 45.950  | 8.1  | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 45.952  | 8.1  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.672  | 0.7  | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.211  | 7.6  | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 45.752  | 8.5  | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 45.557  | 8.9  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 46.063  | 7.9# | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 92.561  | 7.4  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 46.412  | 7.2  | 94    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 46.608  | 6.8  | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 46.852  | 6.3  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 45.549  | 8.9  | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 44.990  | 10.0 | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 43.711  | 12.6 | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 42.279  | 15.4 | 91    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 44.166  | 11.7 | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 45.061  | 9.9  | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.534  | 8.9  | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 45.968  | 8.1  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.733  | 8.5  | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 45.083  | 9.8  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.297  | 7.4  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 45.753  | 8.5  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.254  | 7.5  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 46.129  | 7.7  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.501  | 7.0  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 45.642  | 8.7  | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.547  | 6.9  | 95    | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 45.501  | 9.0  | 94    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 46.430  | 7.1  | 95    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 45.058  | 9.9  | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 47.432  | 5.1  | 98    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 46.007  | 8.0  | 97    | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 47.649  | 4.7  | 93    | 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) |
|------|------------------------|--------|--------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 47.744 | 4.5  | 97    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6