

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY063023\  
 Data File : VY014529.D  
 Acq On : 30 Jun 2023 20:37  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 30 23:22:14 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y063023S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 30 19:02:11 2023  
 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   | 104   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.322  | 1.4   | 103   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.295  | 5.4   | 104   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.103  | 3.8#  | 105   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.028  | 3.9   | 109   | -0.02    |
| 6 T   | Chloroethane                | 50.000  | 49.083  | 1.8   | 105   | -0.01    |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.435  | 5.1   | 103   | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 51.187  | -2.4  | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.108  | 5.8   | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.705  | -1.4  | 99    | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 246.534 | 1.4   | 104   | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.680  | 0.6#  | 104   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 245.743 | 1.7   | 102   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.832  | -1.7  | 105   | -0.01    |
| 15 T  | Acrylonitrile               | 250.000 | 262.277 | -4.9  | 105   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 229.566 | 8.2   | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.809  | 0.4   | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 52.422  | -4.8  | 110   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.564  | -7.1  | 108   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 53.277  | -6.6  | 107   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.697  | -1.4  | 105   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.094  | -6.2  | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 267.492 | -7.0  | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.980  | -2.0  | 106   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 251.721 | -0.7  | 99    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.300  | 7.4   | 99    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.082  | -4.2  | 106   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.073  | -4.1  | 108   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 266.576 | -6.6  | 103   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.682  | -1.4# | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.737  | 4.5   | 103   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.601  | 0.8   | 104   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.650  | -3.3  | 107   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 106   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.941  | -3.9  | 108   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.641  | 0.7   | 105   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.729  | -1.5  | 103   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.159  | 3.7   | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.568  | 0.9   | 103   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.939  | 0.1   | 105   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.659  | -3.3  | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.010  | -0.0  | 105   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.800  | -3.6  | 105   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.332  | 1.3   | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.319  | -0.6# | 106   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 50.548  | -1.1  | 106   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 50.140  | -0.3  | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 52.999  | -6.0  | 105   | 0.00     |

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 ALS Vial : 23 Sample Multiplier: 1

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 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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 | 1076.484 | -7.6  | 101   | -0.02    |
| 50 S  | Toluene-d8                  | 50.000   | 51.095   | -2.2  | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 258.812  | -3.5  | 102   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.199   | -0.4# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.317   | -2.6  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.680   | -1.4  | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.164   | -2.3  | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.357   | -8.7  | 108   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.493   | -3.0  | 108   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 271.924  | -8.8  | 106   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 260.416  | -4.2  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.042   | -2.1  | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.211   | -2.4  | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.138   | -4.3  | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 107   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.735   | 0.5   | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.108   | 1.8   | 105   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.856   | 0.3   | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.357   | -0.7# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.379  | -0.4  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.743   | -1.5  | 105   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.151   | -2.3  | 104   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.660   | -1.3  | 106   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.644   | -3.3  | 105   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 51.410   | -2.8  | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.113   | -2.2  | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.430   | -4.9  | 108   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.563   | -3.1  | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.036   | -2.1  | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.131   | -2.3  | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.615   | -3.2  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.199   | -0.4  | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.345   | -0.7  | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.370   | -2.7  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.742   | -3.5  | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.025   | -2.0  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.557   | -3.1  | 105   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.402   | 1.2   | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.276   | 1.4   | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.658   | -1.3  | 104   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 49.449   | 1.1   | 105   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 50.809   | -1.6  | 106   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 50.667   | -1.3  | 104   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 51.263   | -2.5  | 105   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 48.380   | 3.2   | 103   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 53.522   | -7.0  | 106   | 0.00     |

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ALS Vial : 23 Sample Multiplier: 1

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MSVOA\_Y  
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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 | 51.312 | -2.6 | 104   | 0.00     |

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