

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050323\  
 Data File : VY013569.D  
 Acq On : 03 May 2023 09:38  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 03 15:37:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:39:58 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   | 112   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 53.160  | -6.3  | 116   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.056  | 7.9   | 105   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.098  | 7.8#  | 106   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.895  | 14.2  | 103   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.658  | 10.7  | 106   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.105  | -2.2  | 115   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.722  | 2.6   | 107   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.631  | 0.7   | 115   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.054  | 1.9   | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 218.548 | 12.6  | 105   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.110  | 1.8#  | 109   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 226.204 | 9.5   | 108   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.464  | 5.1   | 104   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 254.339 | -1.7  | 110   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 278.641 | -11.5 | 113   | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.344  | 5.3   | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.851  | 2.3   | 108   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.389  | -2.8  | 111   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.623  | 4.8   | 109   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.346  | -2.7  | 112   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.700  | -3.4  | 114   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 285.043 | -14.0 | 121   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.020  | -2.0  | 114   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 261.816 | -4.7  | 111   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 53.034  | -6.1  | 118   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.608  | -5.2  | 117   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.593  | 0.8   | 112   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 246.833 | 1.3   | 106   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 54.585  | -9.2# | 123   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.450  | 7.1   | 108   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.665  | -7.3  | 119   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.831  | 0.3   | 118   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 107   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.705  | -5.4  | 120   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.294  | -8.6  | 117   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.592  | -1.2  | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 57.936  | -15.9 | 123   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.658  | -3.3  | 109   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.242  | -10.5 | 117   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 58.202  | -16.4 | 121   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 56.838  | -13.7 | 120   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.291  | -4.6  | 109   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 54.493  | -9.0  | 116   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.963  | -9.9# | 117   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 55.803  | -11.6 | 118   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 57.661  | -15.3 | 122   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 52.552  | -5.1  | 105   | 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 | 1091.337 | -9.1   | 112   | 0.01     |
| 50 S  | Toluene-d8                  | 50.000   | 50.461   | -0.9   | 116   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 274.027  | -9.6   | 111   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.905   | -11.8# | 117   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.169   | -12.3  | 116   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 55.730   | -11.5  | 118   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.075   | -12.2  | 119   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 57.034   | -14.1  | 114   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.639   | -11.3  | 118   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 249.326  | 0.3    | 114   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 288.102  | -15.2  | 114   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 57.247   | -14.5  | 119   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.171   | -10.3  | 115   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.069   | -6.1   | 122   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 111   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 54.489   | -9.0   | 120   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.624   | -9.2   | 121   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 57.618   | -15.2  | 128   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.785   | -11.6# | 121   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 112.423  | -12.4  | 122   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.955   | -11.9  | 120   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.754   | -15.5  | 124   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 57.403   | -14.8  | 125   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 117   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.458   | -6.9   | 121   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.023   | -0.0   | 108   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.280   | -4.6   | 118   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.783   | 2.4    | 109   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 56.613   | -13.2  | 128   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.341   | -8.7   | 123   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.149   | -8.3   | 123   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.972   | -9.9   | 123   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.924   | -5.8   | 115   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.856   | -7.7   | 122   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.774   | -7.5   | 121   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.627   | -11.3  | 124   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.851   | -7.7   | 122   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.399   | -10.8  | 125   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.976   | -10.0  | 126   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.201   | -8.4   | 126   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.755   | -7.5   | 122   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 52.000   | -4.0   | 122   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 55.652   | -11.3  | 126   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 52.211   | -4.4   | 121   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 56.386   | -12.8  | 130   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 58.725   | -17.5  | 139   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 55.217   | -10.4  | 122   | 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) |
|------|------------------------|--------|--------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 56.824 | -13.6 | 129   | 0.00     |

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