

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122723\  
 Data File : VY016884.D  
 Acq On : 27 Dec 2023 17:43  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 28 03:47:52 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 21 01:49:45 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 74    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.427 | 0.422 | 1.2    | 88    | 0.00     |
| 3 P   | Chloromethane               | 0.657 | 0.738 | -12.3  | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.742 | 0.875 | -17.9# | 99    | 0.00     |
| 5 T   | Bromomethane                | 0.528 | 0.633 | -19.9  | 107   | 0.00     |
| 6 T   | Chloroethane                | 0.503 | 0.591 | -17.5  | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.864 | 0.971 | -12.4  | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 0.276 | 0.339 | -22.8  | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.530 | 0.600 | -13.2  | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.552 | 0.552 | 0.0    | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.037 | 0.050 | -35.1# | 112   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.472 | 0.543 | -15.0# | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.029 | 0.027 | 6.9    | 66    | 0.00     |
| 14 T  | Allyl chloride              | 0.723 | 0.891 | -23.2  | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 0.117 | 0.162 | -38.5# | 106   | 0.00     |
| 16 T  | Acetone                     | 0.123 | 0.148 | -20.3  | 110   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.284 | 1.458 | -13.6  | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 0.482 | 0.775 | -60.8# | 113   | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 1.215 | 1.554 | -27.9# | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 0.723 | 0.712 | 1.5    | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.538 | 0.642 | -19.3  | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.636 | 2.146 | -31.2# | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.774 | 0.991 | -28.0# | 103   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.983 | 1.209 | -23.0  | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 0.170 | 0.220 | -29.4# | 111   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.857 | 0.990 | -15.5  | 97    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.620 | 0.755 | -21.8  | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 0.389 | 0.446 | -14.7  | 76    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.093 | 0.137 | -47.3# | 111   | 0.00     |
| 30 C  | Chloroform                  | 1.006 | 1.248 | -24.1# | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 0.875 | 0.964 | -10.2  | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.883 | 1.052 | -19.1  | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.456 | 0.558 | -22.4  | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 77    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.286 | 0.330 | -15.4  | 77    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.459 | 0.529 | -15.3  | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.197 | 0.262 | -33.0# | 107   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.454 | 0.517 | -13.9  | 98    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.530 | 0.603 | -13.8  | 94    | 0.00     |
| 40 TM | Benzene                     | 1.336 | 1.580 | -18.3  | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.104 | 0.134 | -28.8# | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.349 | 0.438 | -25.5# | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.382 | 0.496 | -29.8# | 107   | 0.00     |
| 44 TM | Trichloroethene             | 0.341 | 0.393 | -15.2  | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.335 | 0.413 | -23.3# | 105   | 0.00     |
| 46 T  | Dibromomethane              | 0.173 | 0.216 | -24.9  | 105   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.456 | 0.563 | -23.5  | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.212 | 0.283 | -33.5# | 107   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 28 03:47:52 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122023S.M  
 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.003 | -50.0# | 123   | 0.00     |
| 50 S  | Toluene-d8                  | 1.032 | 1.177 | -14.1  | 75    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.204 | 0.281 | -37.7# | 110   | 0.00     |
| 52 CM | Toluene                     | 0.801 | 0.983 | -22.7# | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.416 | 0.522 | -25.5# | 103   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.502 | 0.622 | -23.9  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.247 | 0.316 | -27.9# | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.217 | 0.291 | -34.1# | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.420 | 0.528 | -25.7# | 104   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.117 | 0.152 | -29.9# | 74    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.152 | 0.196 | -28.9# | 110   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.286 | 0.366 | -28.0# | 108   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.222 | 0.281 | -26.6# | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.335 | 0.399 | -19.1  | 79    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 79    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.311 | 0.347 | -11.6  | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 0.982 | 1.148 | -16.9  | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.370 | 0.435 | -17.6  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.808 | 2.127 | -17.6# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.668 | 0.792 | -18.6  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 0.613 | 0.750 | -22.3  | 105   | 0.00     |
| 70 T  | Styrene                     | 0.906 | 1.134 | -25.2# | 106   | 0.00     |
| 71 P  | Bromoform                   | 0.184 | 0.231 | -25.5# | 108   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 84    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.894 | 4.406 | -13.1  | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 0.817 | 0.995 | -21.8  | 110   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.778 | 0.912 | -17.2  | 109   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.553 | 0.671 | -21.3  | 126   | 0.00     |
| 77 T  | Bromobenzene                | 0.850 | 0.960 | -12.9  | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 4.718 | 5.410 | -14.7  | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.611 | 2.966 | -13.6  | 104   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.082 | 3.579 | -16.1  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.235 | 0.271 | -15.3  | 106   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.678 | 3.063 | -14.4  | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.681 | 3.027 | -12.9  | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.040 | 3.562 | -17.2  | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.971 | 4.582 | -15.4  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.307 | 3.834 | -15.9  | 105   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.660 | 1.895 | -14.2  | 108   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.621 | 1.849 | -14.1  | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.162 | 3.658 | -15.7  | 103   | 0.00     |
| 90 T  | Hexachloroethane            | 0.689 | 0.777 | -12.8  | 108   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.414 | 1.667 | -17.9  | 108   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.101 | 0.120 | -18.8  | 111   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.750 | 0.855 | -14.0  | 102   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.426 | 0.473 | -11.0  | 101   | 0.00     |
| 95 T  | Naphthalene                 | 1.420 | 1.699 | -19.6  | 104   | 0.00     |

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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               | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.639 | 0.727 | -13.8 | 100   | 0.00     |

(#) = Out of Range

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