

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY012925\  
 Data File : VY020971.D  
 Acq On : 29 Jan 2025 17:51  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 30 00:37:41 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y012425S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jan 25 01:12:18 2025  
 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    | 83    | -0.01    |
| 2 T   | Dichlorodifluoromethane     | 0.378 | 0.383 | -1.3   | 83    | -0.01    |
| 3 P   | Chloromethane               | 0.281 | 0.311 | -10.7  | 92    | -0.01    |
| 4 C   | Vinyl Chloride              | 0.307 | 0.318 | -3.6#  | 84    | -0.01    |
| 5 T   | Bromomethane                | 0.208 | 0.226 | -8.7   | 94    | -0.02    |
| 6 T   | Chloroethane                | 0.180 | 0.198 | -10.0  | 89    | -0.02    |
| 7 T   | Trichlorofluoromethane      | 0.651 | 0.667 | -2.5   | 83    | -0.02    |
| 8 T   | Diethyl Ether               | 0.200 | 0.246 | -23.0  | 98    | -0.01    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.430 | 0.452 | -5.1   | 86    | -0.01    |
| 10 T  | Methyl Iodide               | 0.512 | 0.540 | -5.5   | 82    | -0.02    |
| 11 T  | Tert butyl alcohol          | 0.031 | 0.036 | -16.1  | 111   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.406 | 0.437 | -7.6#  | 89    | -0.02    |
| 13 T  | Acrolein                    | 0.042 | 0.049 | -16.7  | 88    | -0.01    |
| 14 T  | Allyl chloride              | 0.566 | 0.657 | -16.1  | 94    | -0.02    |
| 15 T  | Acrylonitrile               | 0.079 | 0.103 | -30.4# | 101   | -0.02    |
| 16 T  | Acetone                     | 0.054 | 0.072 | -33.3# | 104   | -0.02    |
| 17 T  | Carbon Disulfide            | 1.253 | 1.362 | -8.7   | 88    | -0.02    |
| 18 T  | Methyl Acetate              | 0.195 | 0.259 | -32.8# | 103   | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 0.940 | 1.177 | -25.2# | 100   | -0.02    |
| 20 T  | Methylene Chloride          | 0.402 | 0.480 | -19.4  | 98    | -0.02    |
| 21 T  | trans-1,2-Dichloroethene    | 0.438 | 0.493 | -12.6  | 92    | -0.02    |
| 22 T  | Diisopropyl ether           | 1.139 | 1.425 | -25.1# | 99    | -0.02    |
| 23 T  | Vinyl Acetate               | 0.631 | 0.818 | -29.6# | 100   | -0.02    |
| 24 P  | 1,1-Dichloroethane          | 0.722 | 0.865 | -19.8  | 97    | -0.02    |
| 25 T  | 2-Butanone                  | 0.091 | 0.124 | -36.3# | 106   | -0.02    |
| 26 T  | 2,2-Dichloropropane         | 0.711 | 0.702 | 1.3    | 83    | -0.02    |
| 27 T  | cis-1,2-Dichloroethene      | 0.494 | 0.590 | -19.4  | 97    | -0.02    |
| 28 T  | Bromochloromethane          | 0.291 | 0.370 | -27.1# | 103   | -0.02    |
| 29 T  | Tetrahydrofuran             | 0.061 | 0.084 | -37.7# | 104   | -0.01    |
| 30 C  | Chloroform                  | 0.764 | 0.911 | -19.2# | 97    | -0.02    |
| 31 T  | Cyclohexane                 | 0.710 | 0.707 | 0.4    | 86    | -0.01    |
| 32 T  | 1,1,1-Trichloroethane       | 0.742 | 0.823 | -10.9  | 90    | -0.02    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.399 | 0.443 | -11.0  | 82    | -0.01    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 86    | -0.02    |
| 35 S  | Dibromofluoromethane        | 0.287 | 0.302 | -5.2   | 81    | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 0.401 | 0.427 | -6.5   | 89    | -0.01    |
| 37 T  | Ethyl Acetate               | 0.155 | 0.196 | -26.5# | 103   | -0.02    |
| 38 T  | Carbon Tetrachloride        | 0.483 | 0.505 | -4.6   | 88    | -0.01    |
| 39 T  | Methylcyclohexane           | 0.543 | 0.547 | -0.7   | 84    | -0.02    |
| 40 TM | Benzene                     | 1.176 | 1.327 | -12.8  | 95    | -0.01    |
| 41 T  | Methacrylonitrile           | 0.082 | 0.106 | -29.3# | 100   | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.293 | 0.354 | -20.8  | 100   | -0.02    |
| 43 T  | Isopropyl Acetate           | 0.295 | 0.378 | -28.1# | 102   | -0.01    |
| 44 TM | Trichloroethene             | 0.319 | 0.348 | -9.1   | 93    | -0.02    |
| 45 C  | 1,2-Dichloropropane         | 0.260 | 0.308 | -18.5# | 99    | -0.01    |
| 46 T  | Dibromomethane              | 0.148 | 0.179 | -20.9  | 98    | -0.01    |
| 47 T  | Bromodichloromethane        | 0.393 | 0.468 | -19.1  | 99    | -0.01    |
| 48 T  | Methyl methacrylate         | 0.139 | 0.175 | -25.9# | 102   | -0.01    |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Sat Jan 25 01:12:18 2025  
 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 | 0.002 | 0.0    | 108   | -0.02    |
| 50 S  | Toluene-d8                  | 1.113 | 1.137 | -2.2   | 78    | -0.01    |
| 51 T  | 4-Methyl-2-Pentanone        | 0.149 | 0.197 | -32.2# | 105   | -0.01    |
| 52 CM | Toluene                     | 0.756 | 0.857 | -13.4# | 95    | -0.01    |
| 53 T  | t-1,3-Dichloropropene       | 0.360 | 0.428 | -18.9  | 97    | -0.01    |
| 54 T  | cis-1,3-Dichloropropene     | 0.430 | 0.498 | -15.8  | 96    | -0.01    |
| 55 T  | 1,1,2-Trichloroethane       | 0.199 | 0.245 | -23.1  | 102   | -0.01    |
| 56 T  | Ethyl methacrylate          | 0.261 | 0.337 | -29.1# | 101   | -0.01    |
| 57 T  | 1,3-Dichloropropane         | 0.339 | 0.411 | -21.2  | 100   | -0.01    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.119 | 0.151 | -26.9# | 104   | -0.01    |
| 59 T  | 2-Hexanone                  | 0.096 | 0.133 | -38.5# | 108   | -0.01    |
| 60 T  | Dibromochloromethane        | 0.281 | 0.348 | -23.8  | 103   | -0.01    |
| 61 T  | 1,2-Dibromoethane           | 0.191 | 0.235 | -23.0  | 102   | -0.01    |
| 62 S  | 4-Bromofluorobenzene        | 0.371 | 0.404 | -8.9   | 84    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 91    | -0.01    |
| 64 T  | Tetrachloroethene           | 0.348 | 0.346 | 0.6    | 90    | -0.01    |
| 65 PM | Chlorobenzene               | 0.978 | 1.058 | -8.2   | 98    | -0.01    |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.347 | 0.381 | -9.8   | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.706 | 1.824 | -6.9#  | 95    | -0.01    |
| 68 T  | m/p-Xylenes                 | 0.653 | 0.706 | -8.1   | 96    | -0.01    |
| 69 T  | o-Xylene                    | 0.610 | 0.671 | -10.0  | 97    | 0.00     |
| 70 T  | Styrene                     | 1.000 | 1.142 | -14.2  | 99    | -0.01    |
| 71 P  | Bromoform                   | 0.197 | 0.230 | -16.8  | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 99    | -0.01    |
| 73 T  | Isopropylbenzene            | 3.444 | 3.407 | 1.1    | 95    | -0.01    |
| 74 T  | N-amyl acetate              | 0.613 | 0.729 | -18.9  | 107   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.536 | 0.598 | -11.6  | 104   | -0.01    |
| 76 T  | 1,2,3-Trichloropropane      | 0.354 | 0.426 | -20.3  | 107   | -0.01    |
| 77 T  | Bromobenzene                | 0.807 | 0.838 | -3.8   | 100   | -0.01    |
| 78 T  | n-propylbenzene             | 4.011 | 4.011 | 0.0    | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.275 | 2.334 | -2.6   | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.767 | 2.810 | -1.6   | 97    | -0.01    |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.183 | 0.194 | -6.0   | 96    | -0.01    |
| 82 T  | 4-Chlorotoluene             | 2.323 | 2.412 | -3.8   | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.552 | 2.605 | -2.1   | 96    | -0.01    |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.724 | 2.835 | -4.1   | 99    | -0.01    |
| 85 T  | sec-Butylbenzene            | 3.639 | 3.622 | 0.5    | 96    | -0.01    |
| 86 T  | p-Isopropyltoluene          | 3.074 | 3.101 | -0.9   | 96    | -0.01    |
| 87 T  | 1,3-Dichlorobenzene         | 1.546 | 1.604 | -3.8   | 100   | -0.01    |
| 88 T  | 1,4-Dichlorobenzene         | 1.518 | 1.600 | -5.4   | 102   | -0.01    |
| 89 T  | n-Butylbenzene              | 2.712 | 2.747 | -1.3   | 95    | -0.01    |
| 90 T  | Hexachloroethane            | 0.611 | 0.632 | -3.4   | 100   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.339 | 1.429 | -6.7   | 102   | -0.01    |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.080 | 0.093 | -16.2  | 109   | -0.01    |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.806 | 0.885 | -9.8   | 104   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.551 | 0.560 | -1.6   | 99    | 0.00     |
| 95 T  | Naphthalene                 | 1.292 | 1.538 | -19.0  | 109   | -0.01    |

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LabSampleId :  
VSTDCCC050

Quant Time: Jan 30 00:37:41 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y012425S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jan 25 01:12:18 2025  
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 | 0.677 | 0.778 | -14.9 | 109   | 0.00     |

(#) = Out of Range

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