

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021725\  
 Data File : VY021224.D  
 Acq On : 17 Feb 2025 16:34  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 18 00:49:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020325S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 03 13:08:38 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    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.446 | 0.427 | 4.3    | 79    | 0.00     |
| 3 P   | Chloromethane               | 0.440 | 0.465 | -5.7   | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.443 | 0.486 | -9.7#  | 95    | 0.00     |
| 5 T   | Bromomethane                | 0.274 | 0.294 | -7.3   | 95    | 0.00     |
| 6 T   | Chloroethane                | 0.263 | 0.308 | -17.1  | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.806 | 0.845 | -4.8   | 89    | 0.00     |
| 8 T   | Diethyl Ether               | 0.252 | 0.272 | -7.9   | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.506 | 0.524 | -3.6   | 88    | 0.00     |
| 10 T  | Methyl Iodide               | 0.562 | 0.625 | -11.2  | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.035 | 0.032 | 8.6    | 83    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.477 | 0.508 | -6.5#  | 90    | 0.00     |
| 13 T  | Acrolein                    | 0.053 | 0.029 | 45.3#  | 46#   | 0.00     |
| 14 T  | Allyl chloride              | 0.803 | 0.913 | -13.7  | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 0.105 | 0.115 | -9.5   | 90    | 0.01     |
| 16 T  | Acetone                     | 0.080 | 0.086 | -7.5   | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.495 | 1.475 | 1.3    | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 0.280 | 0.329 | -17.5  | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.205 | 1.361 | -12.9  | 93    | 0.01     |
| 20 T  | Methylene Chloride          | 0.497 | 0.555 | -11.7  | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.525 | 0.570 | -8.6   | 90    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.656 | 1.962 | -18.5  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.923 | 1.048 | -13.5  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.970 | 1.114 | -14.8  | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 0.131 | 0.142 | -8.4   | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.898 | 0.974 | -8.5   | 93    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.604 | 0.688 | -13.9  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.384 | 0.431 | -12.2  | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.089 | 0.096 | -7.9   | 87    | 0.00     |
| 30 C  | Chloroform                  | 0.997 | 1.151 | -15.4# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 0.874 | 0.876 | -0.2   | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.927 | 1.038 | -12.0  | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.512 | 0.546 | -6.6   | 90    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.320 | 0.331 | -3.4   | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.475 | 0.503 | -5.9   | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.208 | 0.223 | -7.2   | 90    | 0.01     |
| 38 T  | Carbon Tetrachloride        | 0.555 | 0.593 | -6.8   | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.581 | 0.604 | -4.0   | 87    | 0.00     |
| 40 TM | Benzene                     | 1.393 | 1.550 | -11.3  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.120 | 0.108 | 10.0   | 82    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.386 | 0.430 | -11.4  | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.414 | 0.451 | -8.9   | 90    | 0.00     |
| 44 TM | Trichloroethene             | 0.360 | 0.384 | -6.7   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.331 | 0.376 | -13.6# | 98    | 0.00     |
| 46 T  | Dibromomethane              | 0.183 | 0.199 | -8.7   | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.491 | 0.559 | -13.8  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.188 | 0.208 | -10.6  | 92    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020325S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 03 13:08:38 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    | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 1.220 | 1.256 | -3.0   | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.208 | 0.228 | -9.6   | 89    | 0.00     |
| 52 CM | Toluene                     | 0.875 | 0.978 | -11.8# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.441 | 0.497 | -12.7  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.522 | 0.592 | -13.4  | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.237 | 0.260 | -9.7   | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.317 | 0.360 | -13.6  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.410 | 0.459 | -12.0  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.151 | 0.158 | -4.6   | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.134 | 0.149 | -11.2  | 88    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.333 | 0.368 | -10.5  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.222 | 0.243 | -9.5   | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.399 | 0.439 | -10.0  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 85    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.371 | 0.371 | 0.0    | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 1.113 | 1.211 | -8.8   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.396 | 0.436 | -10.1  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.969 | 2.178 | -10.6# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.737 | 0.802 | -8.8   | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.687 | 0.772 | -12.4  | 97    | 0.00     |
| 70 T  | Styrene                     | 1.145 | 1.299 | -13.4  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.220 | 0.236 | -7.3   | 93    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.906 | 4.191 | -7.3   | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 0.854 | 0.929 | -8.8   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.650 | 0.666 | -2.5   | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.454 | 0.406 | 10.6   | 76    | 0.00     |
| 77 T  | Bromobenzene                | 0.901 | 0.969 | -7.5   | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 4.653 | 4.959 | -6.6   | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.665 | 2.865 | -7.5   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.167 | 3.370 | -6.4   | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.222 | 0.219 | 1.4    | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.715 | 2.906 | -7.0   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.878 | 3.077 | -6.9   | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.096 | 3.418 | -10.4  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.143 | 4.372 | -5.5   | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.442 | 3.660 | -6.3   | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.740 | 1.828 | -5.1   | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.714 | 1.786 | -4.2   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.140 | 3.372 | -7.4   | 93    | 0.00     |
| 90 T  | Hexachloroethane            | 0.718 | 0.776 | -8.1   | 97    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.510 | 1.582 | -4.8   | 94    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.097 | 0.101 | -4.1   | 90    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.841 | 0.956 | -13.7  | 95    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.557 | 0.615 | -10.4  | 96    | 0.00     |
| 95 T  | Naphthalene                 | 1.345 | 1.616 | -20.1  | 94    | 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               | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.700 | 0.814 | -16.3 | 96    | 0.00     |

(#) = Out of Range

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