

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081925\  
 Data File : VY023160.D  
 Acq On : 19 Aug 2025 19:08  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 20 01:34:40 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 13 02:10:11 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   | 84    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.408 | 0.320 | 21.6  | 77    | 0.00     |
| 3 P   | Chloromethane               | 0.661 | 0.610 | 7.7   | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.817 | 0.782 | 4.3#  | 86    | 0.00     |
| 5 T   | Bromomethane                | 0.610 | 0.614 | -0.7  | 96    | 0.00     |
| 6 T   | Chloroethane                | 0.543 | 0.553 | -1.8  | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.994 | 0.893 | 10.2  | 80    | 0.00     |
| 8 T   | Diethyl Ether               | 0.263 | 0.245 | 6.8   | 82    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.490 | 0.442 | 9.8   | 81    | 0.00     |
| 10 T  | Methyl Iodide               | 0.529 | 0.581 | -9.8  | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.033 | 0.028 | 15.2  | 73    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.482 | 0.454 | 5.8#  | 83    | 0.00     |
| 13 T  | Acrolein                    | 0.048 | 0.021 | 56.3# | 40#   | 0.00     |
| 14 T  | Allyl chloride              | 0.709 | 0.635 | 10.4  | 78    | 0.00     |
| 15 T  | Acrylonitrile               | 0.107 | 0.101 | 5.6   | 80    | 0.00     |
| 16 T  | Acetone                     | 0.103 | 0.077 | 25.2# | 63    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.571 | 1.447 | 7.9   | 82    | 0.00     |
| 18 T  | Methyl Acetate              | 0.307 | 0.309 | -0.7  | 81    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.249 | 1.186 | 5.0   | 81    | 0.00     |
| 20 T  | Methylene Chloride          | 0.620 | 0.539 | 13.1  | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.541 | 0.543 | -0.4  | 87    | 0.01     |
| 22 T  | Diisopropyl ether           | 1.541 | 1.476 | 4.2   | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.852 | 0.761 | 10.7  | 76    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.942 | 0.933 | 1.0   | 86    | 0.00     |
| 25 T  | 2-Butanone                  | 0.140 | 0.118 | 15.7  | 70    | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 0.813 | 0.727 | 10.6  | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.626 | 0.631 | -0.8  | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 0.374 | 0.372 | 0.5   | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.087 | 0.078 | 10.3  | 75    | 0.00     |
| 30 C  | Chloroform                  | 0.971 | 0.985 | -1.4# | 88    | 0.00     |
| 31 T  | Cyclohexane                 | 0.888 | 0.746 | 16.0  | 77    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.862 | 0.852 | 1.2   | 86    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.477 | 0.470 | 1.5   | 86    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.299 | 0.299 | 0.0   | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.445 | 0.425 | 4.5   | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.187 | 0.166 | 11.2  | 75    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.483 | 0.470 | 2.7   | 85    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.586 | 0.534 | 8.9   | 80    | 0.00     |
| 40 TM | Benzene                     | 1.370 | 1.375 | -0.4  | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.108 | 0.090 | 16.7  | 70    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.356 | 0.348 | 2.2   | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.378 | 0.337 | 10.8  | 77    | 0.00     |
| 44 TM | Trichloroethene             | 0.354 | 0.367 | -3.7  | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.315 | 0.314 | 0.3#  | 86    | 0.00     |
| 46 T  | Dibromomethane              | 0.181 | 0.181 | 0.0   | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.466 | 0.472 | -1.3  | 87    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.181 | 0.163 | 9.9   | 74    | 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 81    | 0.00     |
| 50 S  | Toluene-d8                  | 1.169 | 1.189 | -1.7  | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.195 | 0.181 | 7.2   | 77    | 0.00     |
| 52 CM | Toluene                     | 0.870 | 0.891 | -2.4# | 88    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.422 | 0.407 | 3.6   | 82    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.499 | 0.486 | 2.6   | 83    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.242 | 0.243 | -0.4  | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.310 | 0.300 | 3.2   | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.411 | 0.402 | 2.2   | 84    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.146 | 0.152 | -4.1  | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.133 | 0.120 | 9.8   | 74    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.320 | 0.328 | -2.5  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.228 | 0.226 | 0.9   | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.376 | 0.378 | -0.5  | 87    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.446 | 0.501 | -12.3 | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 1.079 | 1.088 | -0.8  | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.366 | 0.376 | -2.7  | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.856 | 1.889 | -1.8# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.725 | 0.747 | -3.0  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.679 | 0.703 | -3.5  | 88    | 0.00     |
| 70 T  | Styrene                     | 1.110 | 1.180 | -6.3  | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.214 | 0.210 | 1.9   | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.529 | 3.482 | 1.3   | 88    | 0.00     |
| 74 T  | N-amyl acetate              | 0.748 | 0.653 | 12.7  | 75    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.603 | 0.519 | 13.9  | 78    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.483 | 0.467 | 3.3   | 77    | 0.00     |
| 77 T  | Bromobenzene                | 0.842 | 0.820 | 2.6   | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 4.201 | 4.160 | 1.0   | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.407 | 2.351 | 2.3   | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.852 | 2.862 | -0.4  | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.199 | 0.172 | 13.6  | 77    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.497 | 2.447 | 2.0   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.576 | 2.572 | 0.2   | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.839 | 2.868 | -1.0  | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.784 | 3.745 | 1.0   | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.141 | 3.194 | -1.7  | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.660 | 1.648 | 0.7   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.647 | 1.601 | 2.8   | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.885 | 2.870 | 0.5   | 87    | 0.00     |
| 90 T  | Hexachloroethane            | 0.643 | 0.643 | 0.0   | 90    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.456 | 1.432 | 1.6   | 89    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.094 | 0.084 | 10.6  | 78    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.861 | 0.784 | 8.9   | 82    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.506 | 0.460 | 9.1   | 83    | 0.00     |
| 95 T  | Naphthalene                 | 1.468 | 1.356 | 7.6   | 80    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.742 | 0.672 | 9.4  | 82    | 0.00     |

(#) = Out of Range

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