

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050125\  
 Data File : VY022095.D  
 Acq On : 01 May 2025 08:50  
 Operator : SY/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 01 12:52:18 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 23 02:30:30 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   | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.426 | 0.359 | 15.7  | 85    | 0.00     |
| 3 P   | Chloromethane               | 0.607 | 0.542 | 10.7  | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.745 | 0.677 | 9.1#  | 87    | 0.00     |
| 5 T   | Bromomethane                | 0.642 | 0.511 | 20.4  | 80    | 0.00     |
| 6 T   | Chloroethane                | 0.508 | 0.454 | 10.6  | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.983 | 0.891 | 9.4   | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 0.256 | 0.219 | 14.5  | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.533 | 0.484 | 9.2   | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 0.617 | 0.554 | 10.2  | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.025 | 0.024 | 4.0   | 87    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.497 | 0.441 | 11.3# | 87    | 0.00     |
| 13 T  | Acrolein                    | 0.046 | 0.031 | 32.6# | 68    | 0.00     |
| 14 T  | Allyl chloride              | 0.579 | 0.498 | 14.0  | 84    | 0.00     |
| 15 T  | Acrylonitrile               | 0.094 | 0.088 | 6.4   | 88    | 0.00     |
| 16 T  | Acetone                     | 0.070 | 0.062 | 11.4  | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.585 | 1.372 | 13.4  | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.216 | 0.226 | -4.6  | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.113 | 1.031 | 7.4   | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 0.584 | 0.488 | 16.4  | 85    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.557 | 0.508 | 8.8   | 89    | 0.01     |
| 22 T  | Diisopropyl ether           | 1.288 | 1.195 | 7.2   | 86    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.694 | 0.648 | 6.6   | 84    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.893 | 0.788 | 11.8  | 86    | 0.00     |
| 25 T  | 2-Butanone                  | 0.105 | 0.100 | 4.8   | 88    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.782 | 0.721 | 7.8   | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.622 | 0.570 | 8.4   | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 0.347 | 0.340 | 2.0   | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.068 | 0.067 | 1.5   | 86    | 0.00     |
| 30 C  | Chloroform                  | 0.990 | 0.919 | 7.2#  | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 0.763 | 0.665 | 12.8  | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.896 | 0.816 | 8.9   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.462 | 0.431 | 6.7   | 86    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.330 | 0.335 | -1.5  | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.444 | 0.431 | 2.9   | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.159 | 0.163 | -2.5  | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.530 | 0.528 | 0.4   | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.558 | 0.550 | 1.4   | 87    | 0.00     |
| 40 TM | Benzene                     | 1.387 | 1.370 | 1.2   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.087 | 0.079 | 9.2   | 74    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.343 | 0.348 | -1.5  | 90    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.306 | 0.302 | 1.3   | 84    | 0.00     |
| 44 TM | Trichloroethene             | 0.384 | 0.385 | -0.3  | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.307 | 0.304 | 1.0#  | 88    | 0.00     |
| 46 T  | Dibromomethane              | 0.192 | 0.196 | -2.1  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.480 | 0.484 | -0.8  | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.141 | 0.149 | -5.7  | 86    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050125\  
 Data File : VY022095.D  
 Acq On : 01 May 2025 08:50  
 Operator : SY/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 01 12:52:18 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 23 02:30:30 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   | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 1.245 | 1.270 | -2.0  | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.160 | 0.176 | -10.0 | 89    | 0.00     |
| 52 CM | Toluene                     | 0.898 | 0.925 | -3.0# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.411 | 0.416 | -1.2  | 86    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.489 | 0.484 | 1.0   | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.256 | 0.267 | -4.3  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.293 | 0.307 | -4.8  | 84    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.411 | 0.421 | -2.4  | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.143 | 0.162 | -13.3 | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.106 | 0.118 | -11.3 | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.355 | 0.371 | -4.5  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.242 | 0.251 | -3.7  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.419 | 0.427 | -1.9  | 87    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.472 | 0.481 | -1.9  | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 1.118 | 1.078 | 3.6   | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.394 | 0.391 | 0.8   | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.829 | 1.811 | 1.0#  | 88    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.728 | 0.745 | -2.3  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 0.671 | 0.676 | -0.7  | 88    | 0.00     |
| 70 T  | Styrene                     | 1.126 | 1.172 | -4.1  | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.229 | 0.238 | -3.9  | 93    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.341 | 3.204 | 4.1   | 89    | 0.00     |
| 74 T  | N-amyl acetate              | 0.574 | 0.532 | 7.3   | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.563 | 0.530 | 5.9   | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.428 | 0.424 | 0.9   | 97    | 0.00     |
| 77 T  | Bromobenzene                | 0.844 | 0.819 | 3.0   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 3.978 | 3.849 | 3.2   | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.314 | 2.194 | 5.2   | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.752 | 2.700 | 1.9   | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.178 | 0.168 | 5.6   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.405 | 2.304 | 4.2   | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.468 | 2.372 | 3.9   | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.753 | 2.737 | 0.6   | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.612 | 3.524 | 2.4   | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.067 | 3.035 | 1.0   | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.714 | 1.634 | 4.7   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.698 | 1.606 | 5.4   | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.742 | 2.631 | 4.0   | 89    | 0.00     |
| 90 T  | Hexachloroethane            | 0.674 | 0.628 | 6.8   | 91    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.495 | 1.427 | 4.5   | 91    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.090 | 0.085 | 5.6   | 94    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.847 | 0.802 | 5.3   | 90    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.521 | 0.491 | 5.8   | 95    | 0.00     |
| 95 T  | Naphthalene                 | 1.408 | 1.340 | 4.8   | 86    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050125\  
Data File : VY022095.D  
Acq On : 01 May 2025 08:50  
Operator : SY/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 01 12:52:18 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 23 02:30:30 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 | 0.731 | 0.697 | 4.7  | 91    | 0.00     |

(#) = Out of Range

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