

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD090425\  
 Data File : VD080512.D  
 Acq On : 04 Sep 2025 13:09  
 Operator : RP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 05 03:45:07 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D082725S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 28 03:02:37 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   | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.426 | 0.357 | 16.2  | 85    | 0.00     |
| 3 P   | Chloromethane               | 0.672 | 0.611 | 9.1   | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.694 | 0.670 | 3.5#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 0.390 | 0.358 | 8.2   | 89    | 0.00     |
| 6 T   | Chloroethane                | 0.453 | 0.443 | 2.2   | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.808 | 0.777 | 3.8   | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 0.320 | 0.296 | 7.5   | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.524 | 0.500 | 4.6   | 87    | 0.00     |
| 10 T  | Methyl Iodide               | 0.605 | 0.578 | 4.5   | 81    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.041 | 0.037 | 9.8   | 86    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.546 | 0.515 | 5.7#  | 83    | 0.00     |
| 13 T  | Acrolein                    | 0.043 | 0.026 | 39.5# | 54    | 0.00     |
| 14 T  | Allyl chloride              | 0.948 | 0.867 | 8.5   | 81    | 0.00     |
| 15 T  | Acrylonitrile               | 0.143 | 0.134 | 6.3   | 84    | 0.00     |
| 16 T  | Acetone                     | 0.132 | 0.121 | 8.3   | 80    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.846 | 1.697 | 8.1   | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 0.372 | 0.351 | 5.6   | 90    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.433 | 1.374 | 4.1   | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 0.725 | 0.653 | 9.9   | 86    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.625 | 0.590 | 5.6   | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.950 | 1.844 | 5.4   | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.110 | 1.058 | 4.7   | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.129 | 1.067 | 5.5   | 84    | 0.00     |
| 25 T  | 2-Butanone                  | 0.187 | 0.175 | 6.4   | 83    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.894 | 0.846 | 5.4   | 84    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.746 | 0.712 | 4.6   | 84    | 0.00     |
| 28 T  | Bromochloromethane          | 0.460 | 0.439 | 4.6   | 83    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.118 | 0.114 | 3.4   | 86    | 0.00     |
| 30 C  | Chloroform                  | 1.079 | 1.050 | 2.7#  | 85    | 0.00     |
| 31 T  | Cyclohexane                 | 1.057 | 0.949 | 10.2  | 84    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.899 | 0.868 | 3.4   | 86    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.564 | 0.492 | 12.8  | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.331 | 0.290 | 12.4  | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.438 | 0.433 | 1.1   | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.211 | 0.209 | 0.9   | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.417 | 0.427 | -2.4  | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.583 | 0.574 | 1.5   | 86    | 0.00     |
| 40 TM | Benzene                     | 1.394 | 1.366 | 2.0   | 84    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.125 | 0.110 | 12.0  | 74    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.338 | 0.341 | -0.9  | 87    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.429 | 0.421 | 1.9   | 85    | 0.00     |
| 44 TM | Trichloroethene             | 0.338 | 0.341 | -0.9  | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.346 | 0.333 | 3.8#  | 83    | 0.00     |
| 46 T  | Dibromomethane              | 0.185 | 0.187 | -1.1  | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.452 | 0.458 | -1.3  | 87    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.213 | 0.211 | 0.9   | 85    | 0.00     |

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 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

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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   | 89    | 0.00     |
| 50 S  | Toluene-d8                  | 1.306 | 1.153 | 11.7  | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.214 | 0.213 | 0.5   | 86    | 0.00     |
| 52 CM | Toluene                     | 0.870 | 0.868 | 0.2#  | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.460 | 0.458 | 0.4   | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.550 | 0.541 | 1.6   | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.248 | 0.249 | -0.4  | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.346 | 0.345 | 0.3   | 86    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.436 | 0.438 | -0.5  | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.134 | 0.137 | -2.2  | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.152 | 0.150 | 1.3   | 84    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.313 | 0.321 | -2.6  | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.236 | 0.244 | -3.4  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.425 | 0.357 | 16.0  | 84    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.309 | 0.315 | -1.9  | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 1.065 | 1.055 | 0.9   | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.340 | 0.348 | -2.4  | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.844 | 1.850 | -0.3# | 86    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.710 | 0.709 | 0.1   | 85    | 0.00     |
| 69 T  | o-Xylene                    | 0.678 | 0.678 | 0.0   | 86    | 0.00     |
| 70 T  | Styrene                     | 1.153 | 1.165 | -1.0  | 86    | 0.00     |
| 71 P  | Bromoform                   | 0.193 | 0.200 | -3.6  | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.663 | 3.645 | 0.5   | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 0.972 | 0.959 | 1.3   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.681 | 0.679 | 0.3   | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.408 | 0.412 | -1.0  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 0.848 | 0.849 | -0.1  | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 4.448 | 4.407 | 0.9   | 86    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.535 | 2.482 | 2.1   | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.977 | 2.963 | 0.5   | 87    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.269 | 0.257 | 4.5   | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.607 | 2.559 | 1.8   | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.583 | 2.604 | -0.8  | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.997 | 2.976 | 0.7   | 87    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.855 | 3.864 | -0.2  | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.224 | 3.222 | 0.1   | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.634 | 1.664 | -1.8  | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.641 | 1.645 | -0.2  | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.072 | 3.043 | 0.9   | 86    | 0.00     |
| 90 T  | Hexachloroethane            | 0.624 | 0.618 | 1.0   | 89    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.454 | 1.454 | 0.0   | 88    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.102 | 0.102 | 0.0   | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.911 | 0.913 | -0.2  | 89    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.414 | 0.418 | -1.0  | 91    | 0.00     |
| 95 T  | Naphthalene                 | 1.938 | 1.943 | -0.3  | 89    | 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 | 0.780 | 0.793 | -1.7 | 90    | 0.00     |

(#) = Out of Range

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