

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN070725\  
 Data File : VN087293.D  
 Acq On : 07 Jul 2025 16:18  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 08 01:34:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N063025W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 01 03:15:00 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    | 182#  | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.487 | 0.499 | -2.5   | 179#  | 0.00     |
| 3 P   | Chloromethane               | 0.395 | 0.396 | -0.3   | 183#  | 0.00     |
| 4 C   | Vinyl Chloride              | 0.486 | 0.497 | -2.3#  | 185#  | 0.00     |
| 5 T   | Bromomethane                | 0.443 | 0.427 | 3.6    | 193#  | 0.00     |
| 6 T   | Chloroethane                | 0.385 | 0.397 | -3.1   | 189#  | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.843 | 0.854 | -1.3   | 190#  | 0.00     |
| 8 T   | Diethyl Ether               | 0.269 | 0.275 | -2.2   | 182#  | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.489 | 0.496 | -1.4   | 189#  | 0.00     |
| 10 T  | Methyl Iodide               | 0.486 | 0.573 | -17.9  | 199#  | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.114 | 0.112 | 1.8    | 178#  | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.465 | 0.469 | -0.9#  | 184#  | 0.00     |
| 13 T  | Acrolein                    | 0.079 | 0.099 | -25.3# | 239#  | 0.00     |
| 14 T  | Allyl chloride              | 0.570 | 0.558 | 2.1    | 180#  | 0.00     |
| 15 T  | Acrylonitrile               | 0.285 | 0.277 | 2.8    | 183#  | 0.00     |
| 16 T  | Acetone                     | 0.240 | 0.245 | -2.1   | 197#  | 0.00     |
| 17 T  | Carbon Disulfide            | 1.395 | 1.297 | 7.0    | 179#  | 0.00     |
| 18 T  | Methyl Acetate              | 0.549 | 0.567 | -3.3   | 191#  | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.629 | 1.600 | 1.8    | 181#  | 0.00     |
| 20 T  | Methylene Chloride          | 0.531 | 0.523 | 1.5    | 188#  | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.562 | 0.537 | 4.4    | 184#  | 0.00     |
| 22 T  | Diisopropyl ether           | 1.364 | 1.304 | 4.4    | 176#  | 0.00     |
| 23 T  | Vinyl Acetate               | 1.262 | 1.218 | 3.5    | 175#  | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.894 | 0.872 | 2.5    | 182#  | 0.00     |
| 25 T  | 2-Butanone                  | 0.375 | 0.370 | 1.3    | 182#  | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.855 | 0.855 | 0.0    | 188#  | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.649 | 0.628 | 3.2    | 181#  | 0.00     |
| 28 T  | Bromochloromethane          | 0.395 | 0.354 | 10.4   | 161#  | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.242 | 0.238 | 1.7    | 178#  | 0.00     |
| 30 C  | Chloroform                  | 0.991 | 0.985 | 0.6#   | 188#  | 0.00     |
| 31 T  | Cyclohexane                 | 0.855 | 0.724 | 15.3   | 168#  | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.923 | 0.898 | 2.7    | 185#  | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.628 | 0.550 | 12.4   | 169#  | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 180#  | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.320 | 0.295 | 7.8    | 173#  | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.435 | 0.425 | 2.3    | 180#  | 0.00     |
| 37 T  | Ethyl Acetate               | 0.468 | 0.449 | 4.1    | 173#  | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.493 | 0.496 | -0.6   | 183#  | 0.00     |
| 39 T  | Methylcyclohexane           | 0.518 | 0.497 | 4.1    | 173#  | 0.00     |
| 40 TM | Benzene                     | 1.349 | 1.306 | 3.2    | 179#  | 0.00     |
| 41 T  | Methacrylonitrile           | 0.224 | 0.224 | 0.0    | 181#  | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.449 | 0.433 | 3.6    | 175#  | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.726 | 0.704 | 3.0    | 176#  | 0.00     |
| 44 TM | Trichloroethene             | 0.358 | 0.355 | 0.8    | 184#  | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.294 | 0.298 | -1.4#  | 184#  | 0.00     |
| 46 T  | Dibromomethane              | 0.250 | 0.248 | 0.8    | 184#  | 0.00     |
| 47 T  | Bromodichloromethane        | 0.477 | 0.480 | -0.6   | 186#  | 0.00     |
| 48 T  | Methyl methacrylate         | 0.306 | 0.309 | -1.0   | 179#  | 0.00     |

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Instrument :  
 MSVOA\_N  
 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                 | 0.006 | 0.007 | -16.7 | 189#  | 0.00     |
| 50 S  | Toluene-d8                  | 1.248 | 1.093 | 12.4  | 163#  | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.444 | 0.461 | -3.8  | 183#  | 0.00     |
| 52 CM | Toluene                     | 0.885 | 0.885 | 0.0   | 179#  | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.512 | 0.512 | 0.0   | 179#  | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.521 | 0.524 | -0.6  | 181#  | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.334 | 0.334 | 0.0   | 184#  | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.490 | 0.473 | 3.5   | 175#  | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.545 | 0.535 | 1.8   | 182#  | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.259 | 0.253 | 2.3   | 171#  | 0.00     |
| 59 T  | 2-Hexanone                  | 0.318 | 0.303 | 4.7   | 178#  | 0.00     |
| 60 T  | Dibromochloromethane        | 0.394 | 0.403 | -2.3  | 184#  | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.359 | 0.364 | -1.4  | 183#  | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.444 | 0.396 | 10.8  | 165#  | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 180#  | 0.00     |
| 64 T  | Tetrachloroethene           | 0.333 | 0.331 | 0.6   | 185#  | 0.00     |
| 65 PM | Chlorobenzene               | 1.122 | 1.094 | 2.5   | 184#  | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.387 | 0.392 | -1.3  | 187#  | 0.00     |
| 67 C  | Ethyl Benzene               | 1.815 | 1.811 | 0.2#  | 181#  | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.725 | 0.748 | -3.2  | 184#  | 0.00     |
| 69 T  | o-Xylene                    | 0.679 | 0.698 | -2.8  | 181#  | 0.00     |
| 70 T  | Styrene                     | 1.153 | 1.198 | -3.9  | 180#  | 0.00     |
| 71 P  | Bromoform                   | 0.299 | 0.313 | -4.7  | 184#  | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 185#  | 0.00     |
| 73 T  | Isopropylbenzene            | 3.222 | 3.071 | 4.7   | 181#  | 0.00     |
| 74 T  | N-amyl acetate              | 1.059 | 0.910 | 14.1  | 204#  | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.060 | 0.953 | 10.1  | 178#  | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.951 | 0.941 | 1.1   | 205#  | 0.00     |
| 77 T  | Bromobenzene                | 0.841 | 0.814 | 3.2   | 182#  | 0.00     |
| 78 T  | n-propylbenzene             | 3.892 | 3.717 | 4.5   | 181#  | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.316 | 2.159 | 6.8   | 179#  | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.693 | 2.676 | 0.6   | 182#  | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.405 | 0.359 | 11.4  | 171#  | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.424 | 2.267 | 6.5   | 180#  | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.359 | 2.257 | 4.3   | 180#  | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.698 | 2.682 | 0.6   | 179#  | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.344 | 3.249 | 2.8   | 179#  | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.875 | 2.852 | 0.8   | 180#  | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.675 | 1.601 | 4.4   | 184#  | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.749 | 1.636 | 6.5   | 186#  | 0.00     |
| 89 T  | n-Butylbenzene              | 2.531 | 2.376 | 6.1   | 173#  | 0.00     |
| 90 T  | Hexachloroethane            | 0.532 | 0.503 | 5.5   | 180#  | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.566 | 1.483 | 5.3   | 182#  | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.255 | 0.225 | 11.8  | 176#  | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.926 | 0.849 | 8.3   | 176#  | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.294 | 0.229 | 22.1  | 156#  | 0.00     |
| 95 T  | Naphthalene                 | 3.205 | 2.952 | 7.9   | 173#  | 0.00     |

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Quant Title : SW846 8260  
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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 | 0.902 | 0.823 | 8.8  | 174#  | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5