

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042825\  
 Data File : VN086399.D  
 Acq On : 28 Apr 2025 09:59  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 29 01:46:44 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041525W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 16 04:19:23 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   | 91    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.593 | 0.498 | 16.0  | 77    | 0.00     |
| 3 P   | Chloromethane               | 0.861 | 0.668 | 22.4  | 81    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.822 | 0.655 | 20.3# | 75    | 0.00     |
| 5 T   | Bromomethane                | 0.370 | 0.343 | 7.3   | 88    | 0.00     |
| 6 T   | Chloroethane                | 0.550 | 0.443 | 19.5  | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.911 | 0.793 | 13.0  | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 0.398 | 0.335 | 15.8  | 81    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.551 | 0.493 | 10.5  | 85    | 0.00     |
| 10 T  | Methyl Iodide               | 0.606 | 0.604 | 0.3   | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.132 | 0.101 | 23.5  | 74    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.588 | 0.492 | 16.3# | 81    | 0.00     |
| 13 T  | Acrolein                    | 0.075 | 0.040 | 46.7# | 60    | 0.00     |
| 14 T  | Allyl chloride              | 1.046 | 0.781 | 25.3# | 76    | 0.00     |
| 15 T  | Acrylonitrile               | 0.327 | 0.275 | 15.9  | 79    | 0.00     |
| 16 T  | Acetone                     | 0.290 | 0.226 | 22.1  | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.762 | 1.215 | 31.0# | 71    | 0.00     |
| 18 T  | Methyl Acetate              | 0.870 | 0.794 | 8.7   | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.163 | 1.877 | 13.2  | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 0.670 | 0.578 | 13.7  | 85    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.615 | 0.531 | 13.7  | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.276 | 1.886 | 17.1  | 81    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.591 | 1.228 | 22.8  | 75    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.201 | 1.034 | 13.9  | 83    | 0.00     |
| 25 T  | 2-Butanone                  | 0.451 | 0.364 | 19.3  | 78    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.075 | 0.965 | 10.2  | 89    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.764 | 0.671 | 12.2  | 86    | 0.00     |
| 28 T  | Bromochloromethane          | 0.509 | 0.452 | 11.2  | 83    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.302 | 0.236 | 21.9  | 76    | 0.00     |
| 30 C  | Chloroform                  | 1.180 | 1.055 | 10.6# | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 1.175 | 0.913 | 22.3  | 78    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.009 | 0.922 | 8.6   | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.725 | 0.648 | 10.6  | 82    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.232 | 0.206 | 11.2  | 84    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.463 | 0.419 | 9.5   | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.488 | 0.394 | 19.3  | 77    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.441 | 0.427 | 3.2   | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.551 | 0.477 | 13.4  | 80    | 0.00     |
| 40 TM | Benzene                     | 1.485 | 1.340 | 9.8   | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.283 | 0.240 | 15.2  | 79    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.474 | 0.441 | 7.0   | 87    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.177 | 0.756 | 35.8# | 76    | 0.00     |
| 44 TM | Trichloroethene             | 0.352 | 0.342 | 2.8   | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.364 | 0.325 | 10.7# | 81    | 0.00     |
| 46 T  | Dibromomethane              | 0.232 | 0.223 | 3.9   | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.500 | 0.484 | 3.2   | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.429 | 0.358 | 16.6  | 79    | 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                 | 0.007 | 0.006 | 14.3  | 80    | 0.00     |
| 50 S  | Toluene-d8                  | 1.240 | 1.186 | 4.4   | 83    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.500 | 0.440 | 12.0  | 79    | 0.00     |
| 52 CM | Toluene                     | 0.927 | 0.865 | 6.7#  | 85    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.558 | 0.540 | 3.2   | 86    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.613 | 0.565 | 7.8   | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.333 | 0.323 | 3.0   | 89    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.613 | 0.553 | 9.8   | 83    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.592 | 0.554 | 6.4   | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.291 | 0.266 | 8.6   | 81    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.371 | 0.320 | 13.7  | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.366 | 0.364 | 0.5   | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.336 | 0.327 | 2.7   | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.452 | 0.449 | 0.7   | 85    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.385 | 0.369 | 4.2   | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 1.116 | 1.031 | 7.6   | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.368 | 0.355 | 3.5   | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.014 | 1.850 | 8.1#  | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.754 | 0.714 | 5.3   | 88    | 0.00     |
| 69 T  | o-Xylene                    | 0.746 | 0.708 | 5.1   | 89    | 0.00     |
| 70 T  | Styrene                     | 1.243 | 1.203 | 3.2   | 89    | 0.00     |
| 71 P  | Bromoform                   | 0.277 | 0.272 | 1.8   | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.090 | 3.583 | 12.4  | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 2.036 | 1.451 | 28.7# | 76    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.176 | 0.967 | 17.8  | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.180 | 0.954 | 19.2  | 85    | 0.00     |
| 77 T  | Bromobenzene                | 0.906 | 0.839 | 7.4   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 4.820 | 4.251 | 11.8  | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.016 | 2.648 | 12.2  | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.348 | 2.986 | 10.8  | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.491 | 0.421 | 14.3  | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.996 | 2.680 | 10.5  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.901 | 2.537 | 12.5  | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.408 | 3.046 | 10.6  | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.023 | 3.641 | 9.5   | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.316 | 3.058 | 7.8   | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.704 | 1.622 | 4.8   | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.716 | 1.633 | 4.8   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.939 | 2.705 | 8.0   | 89    | 0.00     |
| 90 T  | Hexachloroethane            | 0.558 | 0.515 | 7.7   | 93    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.652 | 1.578 | 4.5   | 94    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.237 | 0.199 | 16.0  | 84    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.791 | 0.751 | 5.1   | 92    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.299 | 0.283 | 5.4   | 94    | 0.00     |
| 95 T  | Naphthalene                 | 2.804 | 2.444 | 12.8  | 85    | 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 | 0.749 | 0.693 | 7.5  | 91    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6