

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070325\  
 Data File : VX046869.D  
 Acq On : 03 Jul 2025 08:19  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 04 01:22:52 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X070225W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 03 05:51:11 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   | 113   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.478 | 0.537 | -12.3 | 125   | 0.00     |
| 3 P   | Chloromethane               | 0.522 | 0.558 | -6.9  | 124   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.569 | 0.604 | -6.2# | 124   | 0.00     |
| 5 T   | Bromomethane                | 0.366 | 0.389 | -6.3  | 122   | 0.00     |
| 6 T   | Chloroethane                | 0.376 | 0.375 | 0.3   | 122   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.880 | 0.928 | -5.5  | 122   | 0.00     |
| 8 T   | Diethyl Ether               | 0.313 | 0.323 | -3.2  | 120   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.561 | 0.587 | -4.6  | 121   | 0.00     |
| 10 T  | Methyl Iodide               | 0.611 | 0.644 | -5.4  | 115   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.043 | 0.039 | 9.3   | 104   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.542 | 0.555 | -2.4# | 120   | 0.00     |
| 13 T  | Acrolein                    | 0.052 | 0.052 | 0.0   | 128   | 0.00     |
| 14 T  | Allyl chloride              | 0.965 | 0.979 | -1.5  | 117   | 0.00     |
| 15 T  | Acrylonitrile               | 0.250 | 0.243 | 2.8   | 112   | 0.00     |
| 16 T  | Acetone                     | 0.205 | 0.211 | -2.9  | 123   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.422 | 1.427 | -0.4  | 120   | 0.00     |
| 18 T  | Methyl Acetate              | 0.541 | 0.539 | 0.4   | 110   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.531 | 1.544 | -0.8  | 114   | 0.00     |
| 20 T  | Methylene Chloride          | 0.607 | 0.613 | -1.0  | 119   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.555 | 0.565 | -1.8  | 118   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.865 | 1.922 | -3.1  | 114   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.397 | 1.411 | -1.0  | 112   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.064 | 1.066 | -0.2  | 116   | 0.00     |
| 25 T  | 2-Butanone                  | 0.274 | 0.255 | 6.9   | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.792 | 0.788 | 0.5   | 117   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.677 | 0.672 | 0.7   | 115   | 0.00     |
| 28 T  | Bromochloromethane          | 0.525 | 0.520 | 1.0   | 111   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.175 | 0.163 | 6.9   | 105   | 0.00     |
| 30 C  | Chloroform                  | 1.087 | 1.054 | 3.0#  | 114   | 0.00     |
| 31 T  | Cyclohexane                 | 0.944 | 0.920 | 2.5   | 113   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.908 | 0.890 | 2.0   | 114   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.661 | 0.644 | 2.6   | 113   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 110   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.339 | 0.351 | -3.5  | 114   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.458 | 0.449 | 2.0   | 113   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.390 | 0.345 | 11.5  | 106   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.484 | 0.485 | -0.2  | 113   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.573 | 0.568 | 0.9   | 111   | 0.00     |
| 40 TM | Benzene                     | 1.385 | 1.373 | 0.9   | 112   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.208 | 0.221 | -6.3  | 115   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.470 | 0.464 | 1.3   | 111   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.597 | 0.590 | 1.2   | 105   | 0.00     |
| 44 TM | Trichloroethene             | 0.361 | 0.350 | 3.0   | 112   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.350 | 0.343 | 2.0#  | 110   | 0.00     |
| 46 T  | Dibromomethane              | 0.242 | 0.233 | 3.7   | 108   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.518 | 0.510 | 1.5   | 111   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.308 | 0.306 | 0.6   | 105   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 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                 | 0.004 | 0.003 | 25.0 | 106   | 0.00     |
| 50 S  | Toluene-d8                  | 1.197 | 1.191 | 0.5  | 110   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.353 | 0.332 | 5.9  | 100   | 0.00     |
| 52 CM | Toluene                     | 0.858 | 0.841 | 2.0# | 110   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.462 | 0.460 | 0.4  | 108   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.527 | 0.530 | -0.6 | 110   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.320 | 0.308 | 3.8  | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.442 | 0.433 | 2.0  | 104   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.550 | 0.529 | 3.8  | 108   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.249 | 0.260 | -4.4 | 107   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.234 | 0.224 | 4.3  | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.383 | 0.374 | 2.3  | 110   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.321 | 0.309 | 3.7  | 107   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.455 | 0.447 | 1.8  | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 108   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.333 | 0.324 | 2.7  | 111   | 0.00     |
| 65 PM | Chlorobenzene               | 1.081 | 1.046 | 3.2  | 108   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.363 | 0.361 | 0.6  | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.851 | 1.835 | 0.9# | 108   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.698 | 0.690 | 1.1  | 108   | 0.00     |
| 69 T  | o-Xylene                    | 0.674 | 0.666 | 1.2  | 108   | 0.00     |
| 70 T  | Styrene                     | 1.153 | 1.148 | 0.4  | 105   | 0.00     |
| 71 P  | Bromoform                   | 0.270 | 0.264 | 2.2  | 106   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 108   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.515 | 3.558 | -1.2 | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 1.194 | 1.166 | 2.3  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.966 | 0.901 | 6.7  | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.773 | 0.754 | 2.5  | 103   | 0.00     |
| 77 T  | Bromobenzene                | 0.875 | 0.860 | 1.7  | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 4.238 | 4.213 | 0.6  | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.503 | 2.434 | 2.8  | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.856 | 2.869 | -0.5 | 106   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.288 | 0.277 | 3.8  | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.888 | 2.864 | 0.8  | 106   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.950 | 2.972 | -0.7 | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.887 | 2.903 | -0.6 | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.719 | 3.689 | 0.8  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.114 | 3.099 | 0.5  | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.637 | 1.599 | 2.3  | 106   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.704 | 1.592 | 6.6  | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.926 | 2.900 | 0.9  | 105   | 0.00     |
| 90 T  | Hexachloroethane            | 0.552 | 0.548 | 0.7  | 107   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.587 | 1.508 | 5.0  | 104   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.169 | 0.156 | 7.7  | 99    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.078 | 1.054 | 2.2  | 105   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.407 | 0.403 | 1.0  | 106   | 0.00     |
| 95 T  | Naphthalene                 | 2.840 | 2.830 | 0.4  | 101   | 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 | 1.019 | 0.991 | 2.7  | 102   | 0.00     |

(#) = Out of Range

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