

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021225\  
 Data File : VX044920.D  
 Acq On : 12 Feb 2025 10:07  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 13 00:46:00 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021025W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 11 03:41:08 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    | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.701 | 0.718 | -2.4   | 96    | 0.00     |
| 3 P   | Chloromethane               | 0.854 | 0.820 | 4.0    | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.827 | 0.797 | 3.6#   | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.247 | 0.256 | -3.6   | 97    | 0.00     |
| 6 T   | Chloroethane                | 0.307 | 0.389 | -26.7# | 107   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.046 | 1.056 | -1.0   | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 0.379 | 0.377 | 0.5    | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.632 | 0.642 | -1.6   | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 0.819 | 0.837 | -2.2   | 93    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.136 | 0.120 | 11.8   | 82    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.644 | 0.613 | 4.8#   | 91    | 0.00     |
| 13 T  | Acrolein                    | 0.140 | 0.137 | 2.1    | 91    | 0.00     |
| 14 T  | Allyl chloride              | 1.165 | 1.120 | 3.9    | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.363 | 0.356 | 1.9    | 88    | 0.00     |
| 16 T  | Acetone                     | 0.294 | 0.293 | 0.3    | 94    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.767 | 1.633 | 7.6    | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 0.928 | 0.895 | 3.6    | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.050 | 1.992 | 2.8    | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 0.721 | 0.687 | 4.7    | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.634 | 0.601 | 5.2    | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.203 | 2.180 | 1.0    | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.796 | 1.785 | 0.6    | 90    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.233 | 1.202 | 2.5    | 92    | 0.00     |
| 25 T  | 2-Butanone                  | 0.478 | 0.466 | 2.5    | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.978 | 0.948 | 3.1    | 93    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.762 | 0.733 | 3.8    | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.593 | 0.601 | -1.3   | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.317 | 0.305 | 3.8    | 87    | 0.00     |
| 30 C  | Chloroform                  | 1.196 | 1.159 | 3.1#   | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 1.137 | 1.079 | 5.1    | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.014 | 0.988 | 2.6    | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.732 | 0.766 | -4.6   | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.325 | 0.353 | -8.6   | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.469 | 0.466 | 0.6    | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.522 | 0.503 | 3.6    | 86    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.460 | 0.463 | -0.7   | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.606 | 0.636 | -5.0   | 93    | 0.00     |
| 40 TM | Benzene                     | 1.465 | 1.458 | 0.5    | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.279 | 0.294 | -5.4   | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.467 | 0.483 | -3.4   | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.842 | 0.855 | -1.5   | 89    | 0.00     |
| 44 TM | Trichloroethene             | 0.335 | 0.330 | 1.5    | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.364 | 0.366 | -0.5#  | 90    | 0.00     |
| 46 T  | Dibromomethane              | 0.253 | 0.253 | 0.0    | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.489 | 0.505 | -3.3   | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.397 | 0.407 | -2.5   | 88    | 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                 | 0.009 | 0.008 | 11.1  | 84    | 0.00     |
| 50 S  | Toluene-d8                  | 1.229 | 1.313 | -6.8  | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.512 | 0.531 | -3.7  | 87    | 0.00     |
| 52 CM | Toluene                     | 0.872 | 0.887 | -1.7# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.495 | 0.514 | -3.8  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.552 | 0.566 | -2.5  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.335 | 0.334 | 0.3   | 89    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.542 | 0.555 | -2.4  | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.587 | 0.593 | -1.0  | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.266 | 0.282 | -6.0  | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.369 | 0.382 | -3.5  | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.359 | 0.367 | -2.2  | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.340 | 0.343 | -0.9  | 89    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.414 | 0.448 | -8.2  | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.315 | 0.319 | -1.3  | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 1.074 | 1.085 | -1.0  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.346 | 0.348 | -0.6  | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.895 | 1.934 | -2.1# | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.699 | 0.715 | -2.3  | 89    | 0.00     |
| 69 T  | o-Xylene                    | 0.701 | 0.711 | -1.4  | 91    | 0.00     |
| 70 T  | Styrene                     | 1.130 | 1.191 | -5.4  | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.258 | 0.269 | -4.3  | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.026 | 4.000 | 0.6   | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 1.822 | 1.805 | 0.9   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.383 | 1.289 | 6.8   | 86    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.109 | 1.077 | 2.9   | 88    | 0.00     |
| 77 T  | Bromobenzene                | 0.913 | 0.912 | 0.1   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.647 | 4.729 | -1.8  | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.856 | 2.774 | 2.9   | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.267 | 3.294 | -0.8  | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.431 | 0.407 | 5.6   | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.160 | 3.197 | -1.2  | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.305 | 3.283 | 0.7   | 90    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.225 | 3.279 | -1.7  | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.093 | 4.197 | -2.5  | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.291 | 3.398 | -3.3  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.678 | 1.658 | 1.2   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.697 | 1.647 | 2.9   | 89    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.912 | 3.141 | -7.9  | 92    | 0.00     |
| 90 T  | Hexachloroethane            | 0.616 | 0.604 | 1.9   | 89    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.650 | 1.611 | 2.4   | 88    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.252 | 0.242 | 4.0   | 85    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.998 | 1.015 | -1.7  | 91    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.396 | 0.410 | -3.5  | 97    | 0.00     |
| 95 T  | Naphthalene                 | 3.608 | 3.567 | 1.1   | 86    | 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 | 1.006 | 1.022 | -1.6 | 90    | 0.00     |

(#) = Out of Range

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