

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121224\  
 Data File : VN085187.D  
 Acq On : 12 Dec 2024 16:29  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 13 04:24:29 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112224W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 23 02:54:10 2024  
 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   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.565 | 0.409 | 27.6# | 70    | 0.00     |
| 3 P   | Chloromethane               | 0.656 | 0.451 | 31.3# | 74    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.589 | 0.480 | 18.5# | 80    | 0.00     |
| 5 T   | Bromomethane                | 0.330 | 0.336 | -1.8  | 104   | 0.04     |
| 6 T   | Chloroethane                | 0.397 | 0.340 | 14.4  | 87    | 0.05     |
| 7 T   | Trichlorofluoromethane      | 1.002 | 0.906 | 9.6   | 90    | 0.04     |
| 8 T   | Diethyl Ether               | 0.341 | 0.331 | 2.9   | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.569 | 0.530 | 6.9   | 92    | 0.02     |
| 10 T  | Methyl Iodide               | 0.753 | 0.653 | 13.3  | 84    | 0.01     |
| 11 T  | Tert butyl alcohol          | 0.095 | 0.095 | 0.0   | 101   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.531 | 0.480 | 9.6#  | 88    | 0.02     |
| 13 T  | Acrolein                    | 0.064 | 0.065 | -1.6  | 89    | 0.00     |
| 14 T  | Allyl chloride              | 0.895 | 0.725 | 19.0  | 79    | 0.02     |
| 15 T  | Acrylonitrile               | 0.269 | 0.270 | -0.4  | 99    | 0.00     |
| 16 T  | Acetone                     | 0.207 | 0.222 | -7.2  | 105   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.566 | 1.199 | 23.4  | 78    | 0.02     |
| 18 T  | Methyl Acetate              | 0.804 | 0.650 | 19.2  | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.734 | 1.738 | -0.2  | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 0.633 | 0.569 | 10.1  | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.558 | 0.503 | 9.9   | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.801 | 1.721 | 4.4   | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.242 | 1.244 | -0.2  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.078 | 1.018 | 5.6   | 93    | 0.01     |
| 25 T  | 2-Butanone                  | 0.339 | 0.341 | -0.6  | 99    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.006 | 0.964 | 4.2   | 93    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.673 | 0.633 | 5.9   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.407 | 0.351 | 13.8  | 85    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.211 | 0.220 | -4.3  | 99    | 0.00     |
| 30 C  | Chloroform                  | 1.146 | 1.084 | 5.4#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 0.949 | 0.756 | 20.3  | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.036 | 0.993 | 4.2   | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.712 | 0.641 | 10.0  | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.337 | 0.327 | 3.0   | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.457 | 0.447 | 2.2   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.415 | 0.429 | -3.4  | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.527 | 0.557 | -5.7  | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.475 | 0.468 | 1.5   | 85    | 0.00     |
| 40 TM | Benzene                     | 1.444 | 1.414 | 2.1   | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.230 | 0.251 | -9.1  | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.494 | 0.494 | 0.0   | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.862 | 0.771 | 10.6  | 95    | 0.00     |
| 44 TM | Trichloroethene             | 0.336 | 0.339 | -0.9  | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.356 | 0.354 | 0.6#  | 94    | 0.00     |
| 46 T  | Dibromomethane              | 0.247 | 0.256 | -3.6  | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.524 | 0.552 | -5.3  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.321 | 0.352 | -9.7  | 99    | 0.00     |

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 ALS Vial : 9 Sample Multiplier: 1

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 | 0.006 | 0.0   | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 1.208 | 1.141 | 5.5   | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.394 | 0.458 | -16.2 | 104   | 0.00     |
| 52 CM | Toluene                     | 0.855 | 0.887 | -3.7# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.525 | 0.552 | -5.1  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.557 | 0.590 | -5.9  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.319 | 0.347 | -8.8  | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.465 | 0.562 | -20.9 | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.561 | 0.583 | -3.9  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.228 | 0.249 | -9.2  | 85    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.295 | 0.339 | -14.9 | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.389 | 0.429 | -10.3 | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.330 | 0.354 | -7.3  | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.452 | 0.441 | 2.4   | 87    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.337 | 0.343 | -1.8  | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 1.134 | 1.106 | 2.5   | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.399 | 0.415 | -4.0  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.840 | 1.962 | -6.6# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.700 | 0.762 | -8.9  | 99    | 0.00     |
| 69 T  | o-Xylene                    | 0.666 | 0.715 | -7.4  | 97    | 0.00     |
| 70 T  | Styrene                     | 1.108 | 1.259 | -13.6 | 101   | 0.00     |
| 71 P  | Bromoform                   | 0.296 | 0.349 | -17.9 | 108   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.527 | 3.824 | -8.4  | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 1.454 | 1.527 | -5.0  | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.204 | 1.127 | 6.4   | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.909 | 0.915 | -0.7  | 98    | 0.00     |
| 77 T  | Bromobenzene                | 0.949 | 0.941 | 0.8   | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 4.068 | 4.503 | -10.7 | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.716 | 2.759 | -1.6  | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.960 | 3.265 | -10.3 | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.412 | 0.425 | -3.2  | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.827 | 2.823 | 0.1   | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.547 | 2.684 | -5.4  | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.047 | 3.276 | -7.5  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.440 | 3.810 | -10.8 | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.840 | 3.195 | -12.5 | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.872 | 1.701 | 9.1   | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.911 | 1.713 | 10.4  | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.641 | 2.715 | -2.8  | 98    | 0.00     |
| 90 T  | Hexachloroethane            | 0.619 | 0.622 | -0.5  | 99    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.794 | 1.628 | 9.3   | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.233 | 0.220 | 5.6   | 97    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.975 | 0.855 | 12.3  | 91    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.450 | 0.423 | 6.0   | 101   | 0.00     |
| 95 T  | Naphthalene                 | 2.776 | 2.555 | 8.0   | 87    | 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 | 0.930 | 0.821 | 11.7 | 88    | 0.00     |

(#) = Out of Range

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