

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN030824\  
 Data File : VN081350.D  
 Acq On : 08 Mar 2024 16:53  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 09 00:59:25 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030524W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 06 03:12:57 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   | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.663 | 0.685 | -3.3  | 85    | 0.00     |
| 3 P   | Chloromethane               | 0.716 | 0.651 | 9.1   | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.747 | 0.721 | 3.5#  | 92    | 0.00     |
| 5 T   | Bromomethane                | 0.499 | 0.432 | 13.4  | 83    | 0.00     |
| 6 T   | Chloroethane                | 0.513 | 0.488 | 4.9   | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.105 | 1.091 | 1.3   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 0.389 | 0.384 | 1.3   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.629 | 0.590 | 6.2   | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 0.576 | 0.621 | -7.8  | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.126 | 0.116 | 7.9   | 91    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.583 | 0.552 | 5.3#  | 89    | 0.00     |
| 13 T  | Acrolein                    | 0.150 | 0.118 | 21.3  | 73    | 0.00     |
| 14 T  | Allyl chloride              | 0.865 | 0.836 | 3.4   | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.330 | 0.334 | -1.2  | 97    | 0.00     |
| 16 T  | Acetone                     | 0.256 | 0.248 | 3.1   | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.663 | 1.493 | 10.2  | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 0.733 | 0.812 | -10.8 | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.976 | 1.969 | 0.4   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.718 | 0.662 | 7.8   | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.657 | 0.604 | 8.1   | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.921 | 2.005 | -4.4  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.560 | 1.581 | -1.3  | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.176 | 1.174 | 0.2   | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 0.429 | 0.429 | 0.0   | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.039 | 1.014 | 2.4   | 89    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.745 | 0.723 | 3.0   | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.503 | 0.483 | 4.0   | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.293 | 0.286 | 2.4   | 94    | 0.00     |
| 30 C  | Chloroform                  | 1.220 | 1.234 | -1.1# | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 1.095 | 0.975 | 11.0  | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.078 | 1.102 | -2.2  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.723 | 0.721 | 0.3   | 86    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.306 | 0.319 | -4.2  | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.494 | 0.500 | -1.2  | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.483 | 0.469 | 2.9   | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.497 | 0.519 | -4.4  | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.569 | 0.573 | -0.7  | 89    | 0.00     |
| 40 TM | Benzene                     | 1.475 | 1.486 | -0.7  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.273 | 0.270 | 1.1   | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.520 | 0.539 | -3.7  | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.846 | 0.820 | 3.1   | 90    | 0.00     |
| 44 TM | Trichloroethene             | 0.372 | 0.384 | -3.2  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.371 | 0.378 | -1.9# | 94    | 0.00     |
| 46 T  | Dibromomethane              | 0.261 | 0.262 | -0.4  | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.507 | 0.537 | -5.9  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.374 | 0.391 | -4.5  | 94    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 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                 | 0.008 | 0.008 | 0.0   | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 1.145 | 1.181 | -3.1  | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.491 | 0.514 | -4.7  | 94    | 0.00     |
| 52 CM | Toluene                     | 0.891 | 0.935 | -4.9# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.549 | 0.582 | -6.0  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.592 | 0.622 | -5.1  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.353 | 0.368 | -4.2  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.507 | 0.566 | -11.6 | 95    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.617 | 0.639 | -3.6  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.273 | 0.290 | -6.2  | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.367 | 0.388 | -5.7  | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.364 | 0.391 | -7.4  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.367 | 0.374 | -1.9  | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.405 | 0.425 | -4.9  | 87    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.391 | 0.394 | -0.8  | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 1.054 | 1.061 | -0.7  | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.386 | 0.393 | -1.8  | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.898 | 1.961 | -3.3# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.714 | 0.734 | -2.8  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.692 | 0.726 | -4.9  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.097 | 1.209 | -10.2 | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.268 | 0.281 | -4.9  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.037 | 4.185 | -3.7  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.694 | 1.739 | -2.7  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.246 | 1.203 | 3.5   | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.181 | 1.158 | 1.9   | 97    | 0.00     |
| 77 T  | Bromobenzene                | 0.957 | 0.909 | 5.0   | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 4.775 | 4.998 | -4.7  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.919 | 2.921 | -0.1  | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.338 | 3.514 | -5.3  | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.423 | 0.416 | 1.7   | 81    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.883 | 2.942 | -2.0  | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.861 | 3.049 | -6.6  | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.381 | 3.524 | -4.2  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.139 | 4.361 | -5.4  | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.320 | 3.583 | -7.9  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.808 | 1.760 | 2.7   | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.807 | 1.721 | 4.8   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.044 | 3.198 | -5.1  | 93    | 0.00     |
| 90 T  | Hexachloroethane            | 0.581 | 0.605 | -4.1  | 94    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.734 | 1.656 | 4.5   | 94    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.267 | 0.248 | 7.1   | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.927 | 0.918 | 1.0   | 91    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.383 | 0.348 | 9.1   | 88    | 0.00     |
| 95 T  | Naphthalene                 | 3.299 | 3.350 | -1.5  | 91    | 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 | 0.940 | 0.934 | 0.6  | 94    | 0.00     |

(#) = Out of Range

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