

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN030124\  
 Data File : VN081291.D  
 Acq On : 01 Mar 2024 17:31  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 01 22:21:26 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 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    | 56    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.647 | 0.701 | -8.3   | 57    | 0.00     |
| 3 P   | Chloromethane               | 0.833 | 0.656 | 21.2   | 51    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.718 | 0.740 | -3.1#  | 59    | 0.00     |
| 5 T   | Bromomethane                | 0.510 | 0.431 | 15.5   | 49#   | 0.00     |
| 6 T   | Chloroethane                | 0.556 | 0.515 | 7.4    | 62    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.049 | 1.217 | -16.0  | 65    | 0.00     |
| 8 T   | Diethyl Ether               | 0.384 | 0.425 | -10.7  | 62    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.585 | 0.691 | -18.1  | 67    | 0.00     |
| 10 T  | Methyl Iodide               | 0.653 | 0.680 | -4.1   | 56    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.113 | 0.134 | -18.6  | 73    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.565 | 0.621 | -9.9#  | 63    | 0.00     |
| 13 T  | Acrolein                    | 0.060 | 0.050 | 16.7   | 51    | 0.00     |
| 14 T  | Allyl chloride              | 0.839 | 0.911 | -8.6   | 62    | 0.00     |
| 15 T  | Acrylonitrile               | 0.294 | 0.384 | -30.6# | 76    | 0.00     |
| 16 T  | Acetone                     | 0.241 | 0.292 | -21.2  | 72    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.577 | 1.385 | 12.2   | 51    | 0.00     |
| 18 T  | Methyl Acetate              | 0.588 | 0.902 | -53.4# | 85    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.937 | 2.380 | -22.9  | 69    | 0.00     |
| 20 T  | Methylene Chloride          | 0.693 | 0.744 | -7.4   | 67    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.631 | 0.688 | -9.0   | 64    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.903 | 2.365 | -24.3  | 70    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.544 | 1.860 | -20.5  | 67    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.100 | 1.356 | -23.3  | 69    | 0.00     |
| 25 T  | 2-Butanone                  | 0.390 | 0.496 | -27.2# | 75    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.031 | 1.197 | -16.1  | 64    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.733 | 0.843 | -15.0  | 65    | 0.00     |
| 28 T  | Bromochloromethane          | 0.456 | 0.588 | -28.9# | 74    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.260 | 0.333 | -28.1# | 75    | 0.00     |
| 30 C  | Chloroform                  | 1.170 | 1.487 | -27.1# | 73    | 0.00     |
| 31 T  | Cyclohexane                 | 1.058 | 1.099 | -3.9   | 63    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.065 | 1.300 | -22.1  | 69    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.613 | 0.638 | -4.1   | 61    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 55    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.283 | 0.303 | -7.1   | 61    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.484 | 0.554 | -14.5  | 65    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.437 | 0.574 | -31.4# | 75    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.490 | 0.608 | -24.1  | 67    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.565 | 0.608 | -7.6   | 60    | 0.00     |
| 40 TM | Benzene                     | 1.402 | 1.686 | -20.3  | 67    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.249 | 0.308 | -23.7  | 76    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.489 | 0.615 | -25.8# | 71    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.765 | 1.394 | -82.2# | 103   | 0.00     |
| 44 TM | Trichloroethene             | 0.373 | 0.415 | -11.3  | 65    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.351 | 0.442 | -25.9# | 71    | 0.00     |
| 46 T  | Dibromomethane              | 0.256 | 0.316 | -23.4  | 71    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.484 | 0.642 | -32.6# | 71    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.356 | 0.448 | -25.8# | 73    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN030124\  
 Data File : VN081291.D  
 Acq On : 01 Mar 2024 17:31  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 01 22:21:26 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.009 | -12.5  | 76    | 0.00     |
| 50 S  | Toluene-d8                  | 1.004 | 0.933 | 7.1    | 54    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.440 | 0.601 | -36.6# | 76    | 0.00     |
| 52 CM | Toluene                     | 0.888 | 1.059 | -19.3# | 66    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.538 | 0.666 | -23.8  | 65    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.581 | 0.719 | -23.8  | 67    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.341 | 0.444 | -30.2# | 71    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.522 | 0.665 | -27.4# | 69    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.590 | 0.752 | -27.5# | 71    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.262 | 0.333 | -27.1# | 71    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.349 | 0.448 | -28.4# | 68    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.363 | 0.472 | -30.0# | 68    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.359 | 0.446 | -24.2  | 69    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.377 | 0.392 | -4.0   | 60    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 56    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.341 | 0.404 | -18.5  | 72    | 0.00     |
| 65 PM | Chlorobenzene               | 1.082 | 1.243 | -14.9  | 66    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.389 | 0.483 | -24.2  | 69    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.936 | 2.289 | -18.2# | 66    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.742 | 0.866 | -16.7  | 65    | 0.00     |
| 69 T  | o-Xylene                    | 0.736 | 0.851 | -15.6  | 65    | 0.00     |
| 70 T  | Styrene                     | 1.166 | 1.411 | -21.0  | 66    | 0.00     |
| 71 P  | Bromoform                   | 0.247 | 0.329 | -33.2# | 69    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 63    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.375 | 4.683 | -7.0   | 68    | 0.00     |
| 74 T  | N-amyl acetate              | 1.849 | 2.047 | -10.7  | 69    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.230 | 1.465 | -19.1  | 78    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.136 | 1.317 | -15.9  | 78    | 0.00     |
| 77 T  | Bromobenzene                | 0.975 | 1.045 | -7.2   | 70    | 0.00     |
| 78 T  | n-propylbenzene             | 5.036 | 5.590 | -11.0  | 69    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.089 | 3.325 | -7.6   | 71    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.547 | 3.985 | -12.3  | 70    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.441 | 0.481 | -9.1   | 68    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.020 | 3.258 | -7.9   | 69    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.067 | 3.359 | -9.5   | 69    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.534 | 4.008 | -13.4  | 71    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.264 | 4.954 | -16.2  | 71    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.542 | 4.078 | -15.1  | 71    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.843 | 2.004 | -8.7   | 72    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.811 | 1.969 | -8.7   | 70    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.085 | 3.601 | -16.7  | 71    | 0.00     |
| 90 T  | Hexachloroethane            | 0.585 | 0.736 | -25.8# | 75    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.778 | 1.935 | -8.8   | 71    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.256 | 0.298 | -16.4  | 76    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.992 | 1.073 | -8.2   | 68    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.370 | 0.398 | -7.6   | 68    | 0.00     |
| 95 T  | Naphthalene                 | 3.634 | 3.955 | -8.8   | 69    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN030124\  
Data File : VN081291.D  
Acq On : 01 Mar 2024 17:31  
Operator : JC\MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Mar 01 22:21:26 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 16 23:45:20 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) |
|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.984 | 1.088 | -10.6 | 69    | 0.00     |

(#) = Out of Range

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