

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN083022\  
 Data File : VN074177.D  
 Acq On : 30 Aug 2022 20:01  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 31 07:04:02 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083022W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 31 07:02:40 2022  
 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   | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.517 | 0.520 | -0.6  | 86    | 0.00     |
| 3 P   | Chloromethane               | 0.729 | 0.785 | -7.7  | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.724 | 0.796 | -9.9# | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.396 | 0.408 | -3.0  | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.556 | 0.543 | 2.3   | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.107 | 1.372 | -23.9 | 101   | 0.00     |
| 8 T   | Diethyl Ether               | 0.471 | 0.432 | 8.3   | 89    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.632 | 0.587 | 7.1   | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 0.510 | 0.541 | -6.1  | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.190 | 0.189 | 0.5   | 90    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.586 | 0.584 | 0.3#  | 92    | 0.00     |
| 13 T  | Acrolein                    | 0.171 | 0.168 | 1.8   | 84    | 0.00     |
| 14 T  | Allyl chloride              | 1.307 | 1.300 | 0.5   | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 0.560 | 0.590 | -5.4  | 95    | 0.00     |
| 16 T  | Acetone                     | 0.518 | 0.513 | 1.0   | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.668 | 1.716 | -2.9  | 95    | 0.00     |
| 18 T  | Methyl Acetate              | 1.566 | 1.490 | 4.9   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.168 | 2.213 | -2.1  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.884 | 0.749 | 15.3  | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.677 | 0.656 | 3.1   | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.663 | 2.824 | -6.0  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 2.249 | 2.454 | -9.1  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.314 | 1.358 | -3.3  | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 0.829 | 0.880 | -6.2  | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.914 | 0.805 | 11.9  | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.756 | 0.783 | -3.6  | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.523 | 0.520 | 0.6   | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.528 | 0.613 | -16.1 | 99    | 0.00     |
| 30 C  | Chloroform                  | 1.339 | 1.340 | -0.1# | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 1.282 | 1.302 | -1.6  | 96    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.030 | 1.076 | -4.5  | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.776 | 0.838 | -8.0  | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.325 | 0.359 | -10.5 | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.528 | 0.535 | -1.3  | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.883 | 0.921 | -4.3  | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.505 | 0.502 | 0.6   | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.620 | 0.639 | -3.1  | 92    | 0.00     |
| 40 TM | Benzene                     | 1.658 | 1.757 | -6.0  | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.408 | 0.370 | 9.3   | 81    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.590 | 0.582 | 1.4   | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.187 | 1.261 | -6.2  | 95    | 0.00     |
| 44 TM | Trichloroethene             | 0.370 | 0.370 | 0.0   | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.448 | 0.464 | -3.6# | 101   | 0.00     |
| 46 T  | Dibromomethane              | 0.299 | 0.302 | -1.0  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.586 | 0.583 | 0.5   | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.564 | 0.597 | -5.9  | 101   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN083022\  
 Data File : VN074177.D  
 Acq On : 30 Aug 2022 20:01  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 31 07:04:02 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083022W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 31 07:02:40 2022  
 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                 | 0.012 | 0.013 | -8.3  | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 1.281 | 1.455 | -13.6 | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.861 | 0.923 | -7.2  | 97    | 0.00     |
| 52 CM | Toluene                     | 0.977 | 1.065 | -9.0# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.555 | 0.575 | -3.6  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.622 | 0.653 | -5.0  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.423 | 0.432 | -2.1  | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.641 | 0.725 | -13.1 | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.734 | 0.756 | -3.0  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.324 | 0.362 | -11.7 | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.654 | 0.727 | -11.2 | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.396 | 0.419 | -5.8  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.404 | 0.430 | -6.4  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.390 | 0.466 | -19.5 | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.362 | 0.325 | 10.2  | 87    | 0.00     |
| 65 PM | Chlorobenzene               | 1.125 | 1.114 | 1.0   | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.400 | 0.409 | -2.2  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.019 | 2.128 | -5.4# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.750 | 0.816 | -8.8  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.747 | 0.809 | -8.3  | 98    | 0.00     |
| 70 T  | Styrene                     | 1.191 | 1.349 | -13.3 | 97    | 0.00     |
| 71 P  | Bromoform                   | 0.339 | 0.333 | 1.8   | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.282 | 4.437 | -3.6  | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 2.423 | 2.452 | -1.2  | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.776 | 1.668 | 6.1   | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.421 | 1.195 | 15.9  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 1.002 | 1.011 | -0.9  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 4.881 | 5.313 | -8.9  | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.990 | 3.049 | -2.0  | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.482 | 3.627 | -4.2  | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.482 | 0.495 | -2.7  | 99    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.893 | 2.897 | -0.1  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.979 | 3.183 | -6.8  | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.361 | 3.664 | -9.0  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.179 | 4.641 | -11.1 | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.251 | 3.641 | -12.0 | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.786 | 1.841 | -3.1  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.847 | 1.850 | -0.2  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.832 | 3.179 | -12.3 | 95    | 0.00     |
| 90 T  | Hexachloroethane            | 0.670 | 0.664 | 0.9   | 97    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.882 | 1.879 | 0.2   | 96    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.355 | 0.365 | -2.8  | 98    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.921 | 0.971 | -5.4  | 89    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.453 | 0.441 | 2.6   | 92    | 0.00     |
| 95 T  | Naphthalene                 | 3.307 | 3.881 | -17.4 | 92    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN083022\  
Data File : VN074177.D  
Acq On : 30 Aug 2022 20:01  
Operator : JC\MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Aug 31 07:04:02 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083022W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 31 07:02:40 2022  
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 | 0.954 | 1.020 | -6.9 | 91    | 0.00     |

(#) = Out of Range

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