

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN070522\  
 Data File : VN073330.D  
 Acq On : 05 Jul 2022 21:17  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 06 01:17:50 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N062822W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 29 01:54:03 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   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.731 | 0.684 | 6.4   | 83    | 0.00     |
| 3 P   | Chloromethane               | 0.710 | 0.655 | 7.7   | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.603 | 0.580 | 3.8#  | 88    | 0.00     |
| 5 T   | Bromomethane                | 0.285 | 0.232 | 18.6  | 77    | 0.00     |
| 6 T   | Chloroethane                | 0.355 | 0.372 | -4.8  | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.043 | 0.989 | 5.2   | 85    | 0.00     |
| 8 T   | Diethyl Ether               | 0.424 | 0.431 | -1.7  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.616 | 0.550 | 10.7  | 83    | 0.00     |
| 10 T  | Methyl Iodide               | 0.614 | 0.653 | -6.4  | 83    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.175 | 0.206 | -17.7 | 101   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.589 | 0.563 | 4.4#  | 88    | 0.00     |
| 13 T  | Acrolein                    | 0.111 | 0.090 | 18.9  | 72    | 0.00     |
| 14 T  | Allyl chloride              | 1.240 | 1.225 | 1.2   | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.450 | 0.501 | -11.3 | 98    | 0.00     |
| 16 T  | Acetone                     | 0.405 | 0.461 | -13.8 | 102   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.526 | 1.451 | 4.9   | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 1.135 | 1.269 | -11.8 | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.145 | 2.246 | -4.7  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.712 | 0.688 | 3.4   | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.615 | 0.588 | 4.4   | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.314 | 2.475 | -7.0  | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 2.072 | 2.236 | -7.9  | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.197 | 1.241 | -3.7  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.645 | 0.740 | -14.7 | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.107 | 0.815 | 26.4# | 71    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.745 | 0.732 | 1.7   | 89    | 0.00     |
| 28 T  | Bromochloromethane          | 0.501 | 0.544 | -8.6  | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.442 | 0.494 | -11.8 | 99    | 0.00     |
| 30 C  | Chloroform                  | 1.206 | 1.235 | -2.4# | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 1.182 | 1.015 | 14.1  | 84    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.075 | 1.074 | 0.1   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.722 | 0.805 | -11.5 | 107   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.333 | 0.354 | -6.3  | 105   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.512 | 0.474 | 7.4   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.773 | 0.786 | -1.7  | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.529 | 0.490 | 7.4   | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.637 | 0.544 | 14.6  | 82    | 0.00     |
| 40 TM | Benzene                     | 1.580 | 1.505 | 4.7   | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.375 | 0.404 | -7.7  | 111   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.573 | 0.561 | 2.1   | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.112 | 1.156 | -4.0  | 96    | 0.00     |
| 44 TM | Trichloroethene             | 0.402 | 0.365 | 9.2   | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.403 | 0.395 | 2.0#  | 93    | 0.00     |
| 46 T  | Dibromomethane              | 0.273 | 0.264 | 3.3   | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.529 | 0.536 | -1.3  | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.515 | 0.523 | -1.6  | 90    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN070522\  
 Data File : VN073330.D  
 Acq On : 05 Jul 2022 21:17  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 06 01:17:50 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N062822W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 29 01:54:03 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                 | 0.010 | 0.011 | -10.0 | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 1.181 | 1.227 | -3.9  | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.705 | 0.767 | -8.8  | 100   | 0.00     |
| 52 CM | Toluene                     | 0.976 | 0.936 | 4.1#  | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.583 | 0.582 | 0.2   | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.629 | 0.619 | 1.6   | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.402 | 0.386 | 4.0   | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.650 | 0.676 | -4.0  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.689 | 0.673 | 2.3   | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.290 | 0.312 | -7.6  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.537 | 0.601 | -11.9 | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.383 | 0.394 | -2.9  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.401 | 0.406 | -1.2  | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.454 | 0.504 | -11.0 | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.408 | 0.360 | 11.8  | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 1.131 | 1.076 | 4.9   | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.416 | 0.407 | 2.2   | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.053 | 1.965 | 4.3#  | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.775 | 0.743 | 4.1   | 89    | 0.00     |
| 69 T  | o-Xylene                    | 0.791 | 0.748 | 5.4   | 90    | 0.00     |
| 70 T  | Styrene                     | 1.221 | 1.240 | -1.6  | 92    | 0.00     |
| 71 P  | Bromoform                   | 0.304 | 0.324 | -6.6  | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.318 | 3.994 | 7.5   | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 2.162 | 2.232 | -3.2  | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.433 | 1.445 | -0.8  | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.307 | 1.263 | 3.4   | 100   | 0.00     |
| 77 T  | Bromobenzene                | 1.004 | 0.942 | 6.2   | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 4.797 | 4.597 | 4.2   | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.036 | 2.893 | 4.7   | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.519 | 3.335 | 5.2   | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.477 | 0.457 | 4.2   | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.939 | 2.746 | 6.6   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.155 | 2.932 | 7.1   | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.514 | 3.320 | 5.5   | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.237 | 4.042 | 4.6   | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.422 | 3.292 | 3.8   | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.801 | 1.657 | 8.0   | 87    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.804 | 1.651 | 8.5   | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.852 | 2.744 | 3.8   | 85    | 0.00     |
| 90 T  | Hexachloroethane            | 0.638 | 0.617 | 3.3   | 87    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.835 | 1.745 | 4.9   | 90    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.348 | 0.363 | -4.3  | 92    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.955 | 0.903 | 5.4   | 85    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.425 | 0.380 | 10.6  | 84    | 0.00     |
| 95 T  | Naphthalene                 | 3.854 | 3.672 | 4.7   | 87    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN070522\  
Data File : VN073330.D  
Acq On : 05 Jul 2022 21:17  
Operator : JC\MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Jul 06 01:17:50 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N062822W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 29 01:54:03 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 | 0.985 | 0.941 | 4.5  | 85    | 0.00     |

(#) = Out of Range

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