

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031723\  
 Data File : VN077032.D  
 Acq On : 17 Mar 2023 12:49  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN031723

Quant Time: Mar 18 02:28:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 18 02:17:37 2023  
 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   | 108   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.566 | 0.467 | 17.5  | 106   | 0.00     |
| 3 P   | Chloromethane               | 0.504 | 0.442 | 12.3  | 102   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.544 | 0.502 | 7.7#  | 105   | 0.00     |
| 5 T   | Bromomethane                | 0.367 | 0.377 | -2.7  | 111   | 0.00     |
| 6 T   | Chloroethane                | 0.344 | 0.336 | 2.3   | 117   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.170 | 1.137 | 2.8   | 110   | 0.00     |
| 8 T   | Diethyl Ether               | 0.440 | 0.460 | -4.5  | 114   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.664 | 0.640 | 3.6   | 112   | 0.00     |
| 10 T  | Methyl Iodide               | 0.747 | 0.779 | -4.3  | 111   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.116 | 0.125 | -7.8  | 115   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.607 | 0.607 | 0.0   | 111   | 0.00     |
| 13 T  | Acrolein                    | 0.144 | 0.141 | 2.1   | 108   | 0.00     |
| 14 T  | Allyl chloride              | 1.111 | 1.254 | -12.9 | 121   | 0.00     |
| 15 T  | Acrylonitrile               | 0.391 | 0.396 | -1.3  | 110   | 0.00     |
| 16 T  | Acetone                     | 0.356 | 0.371 | -4.2  | 119   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.770 | 1.733 | 2.1   | 112   | 0.00     |
| 18 T  | Methyl Acetate              | 1.342 | 1.354 | -0.9  | 112   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.179 | 2.282 | -4.7  | 114   | 0.00     |
| 20 T  | Methylene Chloride          | 0.772 | 0.733 | 5.1   | 112   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.658 | 0.660 | -0.3  | 111   | 0.00     |
| 22 T  | Diisopropyl ether           | 2.435 | 2.556 | -5.0  | 112   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.536 | 1.643 | -7.0  | 112   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.393 | 1.366 | 1.9   | 111   | 0.00     |
| 25 T  | 2-Butanone                  | 0.521 | 0.549 | -5.4  | 112   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.048 | 1.112 | -6.1  | 114   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.754 | 0.782 | -3.7  | 112   | 0.00     |
| 28 T  | Bromochloromethane          | 0.605 | 0.511 | 15.5  | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.337 | 0.358 | -6.2  | 111   | 0.00     |
| 30 C  | Chloroform                  | 1.352 | 1.327 | 1.8#  | 111   | 0.00     |
| 31 T  | Cyclohexane                 | 1.307 | 1.257 | 3.8   | 110   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.156 | 1.150 | 0.5   | 109   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.799 | 0.745 | 6.8   | 103   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.350 | 0.316 | 9.7   | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.547 | 0.574 | -4.9  | 111   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.585 | 0.595 | -1.7  | 110   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.533 | 0.546 | -2.4  | 110   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.640 | 0.724 | -13.1 | 113   | 0.00     |
| 40 TM | Benzene                     | 1.659 | 1.692 | -2.0  | 111   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.315 | 0.300 | 4.8   | 103   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.599 | 0.595 | 0.7   | 110   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.914 | 0.989 | -8.2  | 111   | 0.00     |
| 44 TM | Trichloroethene             | 0.381 | 0.379 | 0.5   | 111   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.441 | 0.453 | -2.7# | 111   | 0.00     |
| 46 T  | Dibromomethane              | 0.278 | 0.276 | 0.7   | 109   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.583 | 0.595 | -2.1  | 112   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.437 | 0.489 | -11.9 | 111   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031723\  
 Data File : VN077032.D  
 Acq On : 17 Mar 2023 12:49  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICSVN031723

Quant Time: Mar 18 02:28:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 18 02:17:37 2023  
 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                 | 0.007 | 0.008 | -14.3 | 110   | 0.00     |
| 50 S  | Toluene-d8                  | 1.251 | 1.223 | 2.2   | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.569 | 0.614 | -7.9  | 111   | 0.00     |
| 52 CM | Toluene                     | 0.990 | 1.041 | -5.2# | 110   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.571 | 0.652 | -14.2 | 113   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.644 | 0.715 | -11.0 | 114   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.391 | 0.402 | -2.8  | 111   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.587 | 0.680 | -15.8 | 112   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.715 | 0.732 | -2.4  | 111   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.250 | 0.246 | 1.6   | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.413 | 0.456 | -10.4 | 112   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.392 | 0.415 | -5.9  | 110   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.387 | 0.399 | -3.1  | 111   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.442 | 0.455 | -2.9  | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.336 | 0.331 | 1.5   | 110   | 0.00     |
| 65 PM | Chlorobenzene               | 1.150 | 1.167 | -1.5  | 112   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.426 | 0.419 | 1.6   | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 2.090 | 2.258 | -8.0# | 112   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.775 | 0.847 | -9.3  | 113   | 0.00     |
| 69 T  | o-Xylene                    | 0.770 | 0.813 | -5.6  | 110   | 0.00     |
| 70 T  | Styrene                     | 1.199 | 1.365 | -13.8 | 112   | 0.00     |
| 71 P  | Bromoform                   | 0.288 | 0.303 | -5.2  | 109   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 107   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.481 | 4.781 | -6.7  | 111   | 0.00     |
| 74 T  | N-amyl acetate              | 1.939 | 2.130 | -9.9  | 112   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.623 | 1.483 | 8.6   | 109   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.293 | 1.357 | -4.9  | 110   | 0.00     |
| 77 T  | Bromobenzene                | 1.004 | 0.995 | 0.9   | 112   | 0.00     |
| 78 T  | n-propylbenzene             | 5.173 | 5.749 | -11.1 | 112   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.296 | 3.423 | -3.9  | 111   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.741 | 4.103 | -9.7  | 113   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.470 | 0.497 | -5.7  | 113   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.134 | 3.341 | -6.6  | 113   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.141 | 3.381 | -7.6  | 111   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.733 | 4.043 | -8.3  | 111   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.468 | 5.016 | -12.3 | 112   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.588 | 4.100 | -14.3 | 114   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.897 | 1.911 | -0.7  | 113   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.887 | 1.894 | -0.4  | 112   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.148 | 3.730 | -18.5 | 114   | 0.00     |
| 90 T  | Hexachloroethane            | 0.730 | 0.739 | -1.2  | 113   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.891 | 1.858 | 1.7   | 109   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.301 | 0.302 | -0.3  | 106   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.855 | 1.002 | -17.2 | 111   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.471 | 0.489 | -3.8  | 112   | 0.00     |
| 95 T  | Naphthalene                 | 2.729 | 3.375 | -23.7 | 109   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031723\  
Data File : VN077032.D  
Acq On : 17 Mar 2023 12:49  
Operator : JC\MD  
Sample : VSTDICV050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
ICVVN031723

Quant Time: Mar 18 02:28:02 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 18 02:17:37 2023  
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 | 0.858 | 0.968 | -12.8 | 111   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5