

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060223\  
 Data File : VN078019.D  
 Acq On : 02 Jun 2023 09:00  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 05 01:12:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 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   | 91    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.569 | 0.437 | 23.2  | 66    | 0.00     |
| 3 P   | Chloromethane               | 0.682 | 0.499 | 26.8# | 74    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.717 | 0.640 | 10.7# | 80    | 0.01     |
| 5 T   | Bromomethane                | 0.531 | 0.476 | 10.4  | 86    | 0.01     |
| 6 T   | Chloroethane                | 0.517 | 0.476 | 7.9   | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.000 | 0.951 | 4.9   | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 0.365 | 0.349 | 4.4   | 89    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.553 | 0.538 | 2.7   | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 0.660 | 0.705 | -6.8  | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.103 | 0.089 | 13.6  | 81    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.526 | 0.507 | 3.6#  | 88    | 0.00     |
| 13 T  | Acrolein                    | 0.073 | 0.040 | 45.2# | 53    | 0.00     |
| 14 T  | Allyl chloride              | 0.773 | 0.714 | 7.6   | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 0.276 | 0.253 | 8.3   | 85    | 0.00     |
| 16 T  | Acetone                     | 0.235 | 0.269 | -14.5 | 112   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.417 | 1.192 | 15.9  | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 0.987 | 0.928 | 6.0   | 88    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.904 | 1.864 | 2.1   | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 0.705 | 0.629 | 10.8  | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.591 | 0.566 | 4.2   | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.811 | 1.810 | 0.1   | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.122 | 1.037 | 7.6   | 84    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.109 | 1.123 | -1.3  | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.368 | 0.348 | 5.4   | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.943 | 1.005 | -6.6  | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.708 | 0.713 | -0.7  | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 0.480 | 0.479 | 0.2   | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.241 | 0.209 | 13.3  | 82    | 0.00     |
| 30 C  | Chloroform                  | 1.220 | 1.233 | -1.1# | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 1.017 | 0.843 | 17.1  | 80    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.038 | 1.064 | -2.5  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.748 | 0.730 | 2.4   | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.326 | 0.356 | -9.2  | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.477 | 0.502 | -5.2  | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.425 | 0.383 | 9.9   | 82    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.482 | 0.533 | -10.6 | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.584 | 0.482 | 17.5  | 70    | 0.00     |
| 40 TM | Benzene                     | 1.407 | 1.509 | -7.2  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.226 | 0.206 | 8.8   | 82    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.511 | 0.528 | -3.3  | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.694 | 0.674 | 2.9   | 86    | 0.00     |
| 44 TM | Trichloroethene             | 0.356 | 0.384 | -7.9  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.359 | 0.388 | -8.1# | 93    | 0.00     |
| 46 T  | Dibromomethane              | 0.257 | 0.269 | -4.7  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.492 | 0.556 | -13.0 | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.329 | 0.318 | 3.3   | 83    | 0.00     |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 05 01:12:11 2023  
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 Quant Title : SW846 8260  
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 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                 | 0.006 | 0.006 | 0.0    | 83    | 0.00     |
| 50 S  | Toluene-d8                  | 1.255 | 1.300 | -3.6   | 87    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.413 | 0.401 | 2.9    | 84    | 0.00     |
| 52 CM | Toluene                     | 0.876 | 0.970 | -10.7# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.521 | 0.579 | -11.1  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.574 | 0.638 | -11.1  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.348 | 0.371 | -6.6   | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.526 | 0.538 | -2.3   | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.596 | 0.622 | -4.4   | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.259 | 0.205 | 20.8   | 68    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.305 | 0.288 | 5.6    | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.359 | 0.417 | -16.2  | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.347 | 0.378 | -8.9   | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.443 | 0.441 | 0.5    | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.350 | 0.406 | -16.0  | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 1.084 | 1.160 | -7.0   | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.375 | 0.453 | -20.8  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.942 | 2.081 | -7.2#  | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.736 | 0.800 | -8.7   | 92    | 0.00     |
| 69 T  | o-Xylene                    | 0.724 | 0.789 | -9.0   | 91    | 0.00     |
| 70 T  | Styrene                     | 1.150 | 1.276 | -11.0  | 92    | 0.00     |
| 71 P  | Bromoform                   | 0.250 | 0.293 | -17.2  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.310 | 4.735 | -9.9   | 88    | 0.00     |
| 74 T  | N-amyl acetate              | 1.593 | 1.455 | 8.7    | 76    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.326 | 1.365 | -2.9   | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.252 | 1.127 | 10.0   | 76    | 0.00     |
| 77 T  | Bromobenzene                | 0.984 | 1.065 | -8.2   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 5.081 | 5.395 | -6.2   | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.032 | 3.303 | -8.9   | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.622 | 3.850 | -6.3   | 87    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.392 | 0.399 | -1.8   | 83    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.017 | 3.145 | -4.2   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.162 | 3.217 | -1.7   | 82    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.563 | 3.866 | -8.5   | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.494 | 4.263 | 5.1    | 76    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.583 | 3.492 | 2.5    | 77    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.819 | 1.883 | -3.5   | 87    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.805 | 1.821 | -0.9   | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.296 | 2.828 | 14.2   | 69    | 0.00     |
| 90 T  | Hexachloroethane            | 0.589 | 0.612 | -3.9   | 79    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.699 | 1.846 | -8.7   | 89    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.257 | 0.221 | 14.0   | 73    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.993 | 0.723 | 27.2#  | 61    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.412 | 0.307 | 25.5#  | 59    | 0.00     |
| 95 T  | Naphthalene                 | 3.418 | 2.231 | 34.7#  | 56    | 0.00     |

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Quant Title : SW846 8260  
QLast Update : Tue May 16 04:07:42 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 | 0.972 | 0.717 | 26.2# | 61    | 0.00     |

(#) = Out of Range

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