

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051921\  
 Data File : VN067155.D  
 Acq On : 19 May 2021 16:56  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 20 01:57:15 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051421W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 18 04:00:15 2021  
 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   | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.455 | 0.399 | 12.3  | 90    | 0.00     |
| 3 P   | Chloromethane               | 0.552 | 0.473 | 14.3  | 93    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.552 | 0.507 | 8.2#  | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.383 | 0.318 | 17.0  | 88    | -0.02    |
| 6 T   | Chloroethane                | 0.329 | 0.280 | 14.9  | 87    | -0.01    |
| 7 T   | Trichlorofluoromethane      | 0.714 | 0.683 | 4.3   | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 0.304 | 0.284 | 6.6   | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.457 | 0.437 | 4.4   | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 0.753 | 0.726 | 3.6   | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.090 | 0.092 | -2.2  | 106   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.470 | 0.413 | 12.1# | 91    | 0.00     |
| 13 T  | Acrolein                    | 0.033 | 0.029 | 12.1  | 112   | 0.00     |
| 14 T  | Allyl chloride              | 0.725 | 0.651 | 10.2  | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.201 | 0.198 | 1.5   | 97    | 0.00     |
| 16 T  | Acetone                     | 0.168 | 0.165 | 1.8   | 99    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.260 | 1.048 | 16.8  | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.499 | 0.507 | -1.6  | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.422 | 1.313 | 7.7   | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 0.605 | 0.486 | 19.7  | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.502 | 0.454 | 9.6   | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.338 | 1.224 | 8.5   | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.168 | 1.097 | 6.1   | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.906 | 0.821 | 9.4   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.262 | 0.269 | -2.7  | 98    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.833 | 0.732 | 12.1  | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.600 | 0.550 | 8.3   | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.376 | 0.352 | 6.4   | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.163 | 0.161 | 1.2   | 97    | 0.00     |
| 30 C  | Chloroform                  | 0.927 | 0.854 | 7.9#  | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 0.744 | 0.620 | 16.7  | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.835 | 0.765 | 8.4   | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.540 | 0.490 | 9.3   | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.328 | 0.330 | -0.6  | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.456 | 0.445 | 2.4   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.403 | 0.407 | -1.0  | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.486 | 0.484 | 0.4   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.534 | 0.518 | 3.0   | 92    | 0.00     |
| 40 TM | Benzene                     | 1.385 | 1.376 | 0.6   | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.163 | 0.178 | -9.2  | 99    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.446 | 0.445 | 0.2   | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.669 | 0.685 | -2.4  | 92    | 0.00     |
| 44 TM | Trichloroethene             | 0.394 | 0.413 | -4.8  | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.362 | 0.353 | 2.5#  | 90    | 0.00     |
| 46 T  | Dibromomethane              | 0.242 | 0.244 | -0.8  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.501 | 0.502 | -0.2  | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.283 | 0.306 | -8.1  | 92    | 0.00     |

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Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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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                 | 0.005 | 0.005 | 0.0   | 105   | 0.00     |
| 50 S  | Toluene-d8                  | 1.244 | 1.244 | 0.0   | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.367 | 0.410 | -11.7 | 98    | 0.00     |
| 52 CM | Toluene                     | 0.895 | 0.907 | -1.3# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.534 | 0.555 | -3.9  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.600 | 0.605 | -0.8  | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.355 | 0.371 | -4.5  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.484 | 0.523 | -8.1  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.568 | 0.595 | -4.8  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.069 | 0.085 | -23.2 | 101   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.228 | 0.262 | -14.9 | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.419 | 0.456 | -8.8  | 99    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.365 | 0.388 | -6.3  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.417 | 0.441 | -5.8  | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.439 | 0.462 | -5.2  | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 1.115 | 1.152 | -3.3  | 98    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.442 | 0.453 | -2.5  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.878 | 1.900 | -1.2# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.726 | 0.760 | -4.7  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.731 | 0.752 | -2.9  | 96    | 0.00     |
| 70 T  | Styrene                     | 1.137 | 1.191 | -4.7  | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.343 | 0.392 | -14.3 | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.176 | 3.962 | 5.1   | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 0.695 | 0.584 | 16.0  | 73    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.266 | 1.143 | 9.7   | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.055 | 0.993 | 5.9   | 92    | 0.00     |
| 77 T  | Bromobenzene                | 1.039 | 1.053 | -1.3  | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 4.225 | 4.195 | 0.7   | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.796 | 2.546 | 8.9   | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.484 | 3.246 | 6.8   | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.300 | 0.290 | 3.3   | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.440 | 2.484 | -1.8  | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.290 | 2.929 | 11.0  | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.212 | 3.063 | 4.6   | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.929 | 3.850 | 2.0   | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.410 | 3.335 | 2.2   | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.687 | 1.704 | -1.0  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.757 | 1.703 | 3.1   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.586 | 2.396 | 7.3   | 92    | 0.00     |
| 90 T  | Hexachloroethane            | 0.624 | 0.598 | 4.2   | 96    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.749 | 1.639 | 6.3   | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.187 | 0.177 | 5.3   | 92    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.887 | 0.982 | -10.7 | 103   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.611 | 0.611 | 0.0   | 102   | 0.00     |
| 95 T  | Naphthalene                 | 1.796 | 1.964 | -9.4  | 93    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.818 | 0.922 | -12.7 | 105   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6