

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090121\  
 Data File : VN068378.D  
 Acq On : 1 Sep 2021 11:04  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 02 12:10:37 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083021W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 31 02:20:58 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   | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.416 | 0.398 | 4.3   | 104   | 0.00     |
| 3 P   | Chloromethane               | 0.436 | 0.362 | 17.0  | 95    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.665 | 0.537 | 19.2# | 88    | 0.00     |
| 5 T   | Bromomethane                | 0.638 | 0.524 | 17.9  | 99    | 0.00     |
| 6 T   | Chloroethane                | 0.477 | 0.386 | 19.1  | 91    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.321 | 0.703 | 46.8# | 59    | 0.00     |
| 8 T   | Diethyl Ether               | 0.381 | 0.237 | 37.8# | 62    | 0.01     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.417 | 0.414 | 0.7   | 111   | 0.01     |
| 10 T  | Methyl Iodide               | 0.532 | 0.654 | -22.9 | 119   | 0.02     |
| 11 T  | Tert butyl alcohol          | 0.067 | 0.065 | 3.0   | 104   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.390 | 0.378 | 3.1#  | 108   | 0.02     |
| 13 T  | Acrolein                    | 0.043 | 0.043 | 0.0   | 114   | 0.00     |
| 14 T  | Allyl chloride              | 0.490 | 0.475 | 3.1   | 104   | 0.01     |
| 15 T  | Acrylonitrile               | 0.182 | 0.175 | 3.8   | 104   | 0.00     |
| 16 T  | Acetone                     | 0.167 | 0.145 | 13.2  | 108   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.051 | 0.970 | 7.7   | 102   | 0.02     |
| 18 T  | Methyl Acetate              | 0.458 | 0.406 | 11.4  | 107   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.260 | 1.314 | -4.3  | 109   | 0.00     |
| 20 T  | Methylene Chloride          | 0.524 | 0.433 | 17.4  | 106   | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 0.436 | 0.427 | 2.1   | 106   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.072 | 1.085 | -1.2  | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.826 | 0.837 | -1.3  | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.714 | 0.678 | 5.0   | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 0.234 | 0.223 | 4.7   | 102   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.665 | 0.648 | 2.6   | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.511 | 0.515 | -0.8  | 105   | 0.00     |
| 28 T  | Bromochloromethane          | 0.302 | 0.257 | 14.9  | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.150 | 0.143 | 4.7   | 99    | 0.00     |
| 30 C  | Chloroform                  | 0.857 | 0.816 | 4.8#  | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 0.673 | 0.606 | 10.0  | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.791 | 0.762 | 3.7   | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.510 | 0.424 | 16.9  | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.317 | 0.294 | 7.3   | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.398 | 0.413 | -3.8  | 100   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.331 | 0.329 | 0.6   | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.475 | 0.500 | -5.3  | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.496 | 0.544 | -9.7  | 101   | 0.00     |
| 40 TM | Benzene                     | 1.228 | 1.265 | -3.0  | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.155 | 0.155 | 0.0   | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.412 | 0.422 | -2.4  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.536 | 0.576 | -7.5  | 102   | 0.00     |
| 44 TM | Trichloroethene             | 0.379 | 0.402 | -6.1  | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.285 | 0.295 | -3.5# | 100   | 0.00     |
| 46 T  | Dibromomethane              | 0.232 | 0.248 | -6.9  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.444 | 0.469 | -5.6  | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.234 | 0.257 | -9.8  | 99    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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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   | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 1.187 | 1.076 | 9.4   | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.335 | 0.341 | -1.8  | 96    | 0.00     |
| 52 CM | Toluene                     | 0.826 | 0.871 | -5.4# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.441 | 0.483 | -9.5  | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.468 | 0.518 | -10.7 | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.334 | 0.353 | -5.7  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.412 | 0.469 | -13.8 | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.502 | 0.532 | -6.0  | 100   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.063 | 0.052 | 17.5  | 67    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.233 | 0.238 | -2.1  | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.385 | 0.432 | -12.2 | 99    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.353 | 0.383 | -8.5  | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.389 | 0.360 | 7.5   | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.391 | 0.447 | -14.3 | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 1.004 | 1.044 | -4.0  | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.392 | 0.429 | -9.4  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.642 | 1.752 | -6.7# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.661 | 0.721 | -9.1  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.636 | 0.704 | -10.7 | 95    | 0.00     |
| 70 T  | Styrene                     | 1.002 | 1.135 | -13.3 | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.317 | 0.373 | -17.7 | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.588 | 3.563 | 0.7   | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 0.897 | 0.865 | 3.6   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.075 | 0.950 | 11.6  | 92    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.850 | 0.790 | 7.1   | 107   | 0.00     |
| 77 T  | Bromobenzene                | 1.015 | 1.025 | -1.0  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 3.801 | 3.857 | -1.5  | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.351 | 2.264 | 3.7   | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.916 | 2.968 | -1.8  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.257 | 0.252 | 1.9   | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.271 | 2.234 | 1.6   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.671 | 2.728 | -2.1  | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.852 | 2.910 | -2.0  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.513 | 3.622 | -3.1  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.905 | 3.164 | -8.9  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.730 | 1.790 | -3.5  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.722 | 1.729 | -0.4  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.190 | 2.344 | -7.0  | 99    | 0.00     |
| 90 T  | Hexachloroethane            | 0.560 | 0.535 | 4.5   | 90    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.642 | 1.712 | -4.3  | 99    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.167 | 0.170 | -1.8  | 102   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.803 | 0.978 | -21.8 | 107   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.477 | 0.573 | -20.1 | 106   | 0.00     |
| 95 T  | Naphthalene                 | 1.942 | 2.166 | -11.5 | 104   | 0.00     |

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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) |
|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.787 | 0.926 | -17.7 | 105   | 0.00     |

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