

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102821\  
 Data File : VN069265.D  
 Acq On : 28 Oct 2021 22:18  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 29 07:54:31 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N102821W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 28 16:09:15 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   | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.499 | 0.567 | -13.6 | 82    | 0.00     |
| 3 P   | Chloromethane               | 0.561 | 0.595 | -6.1  | 82    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.658 | 0.708 | -7.6# | 83    | 0.00     |
| 5 T   | Bromomethane                | 0.420 | 0.462 | -10.0 | 83    | 0.01     |
| 6 T   | Chloroethane                | 0.436 | 0.471 | -8.0  | 84    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.887 | 1.091 | -23.0 | 99    | 0.00     |
| 8 T   | Diethyl Ether               | 0.315 | 0.392 | -24.4 | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.470 | 0.477 | -1.5  | 81    | -0.01    |
| 10 T  | Methyl Iodide               | 0.627 | 0.640 | -2.1  | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.130 | 0.134 | -3.1  | 84    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 0.450 | 0.471 | -4.7# | 83    | -0.01    |
| 13 T  | Acrolein                    | 0.032 | 0.030 | 6.3   | 76    | 0.00     |
| 14 T  | Allyl chloride              | 0.796 | 0.804 | -1.0  | 81    | 0.00     |
| 15 T  | Acrylonitrile               | 0.304 | 0.327 | -7.6  | 85    | 0.00     |
| 16 T  | Acetone                     | 0.308 | 0.278 | 9.7   | 73    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.198 | 1.148 | 4.2   | 80    | -0.01    |
| 18 T  | Methyl Acetate              | 1.045 | 1.098 | -5.1  | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.769 | 1.853 | -4.7  | 83    | 0.00     |
| 20 T  | Methylene Chloride          | 0.590 | 0.568 | 3.7   | 84    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.508 | 0.498 | 2.0   | 81    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.675 | 1.779 | -6.2  | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.315 | 1.381 | -5.0  | 81    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.951 | 0.997 | -4.8  | 83    | 0.00     |
| 25 T  | 2-Butanone                  | 0.437 | 0.456 | -4.3  | 82    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.855 | 0.778 | 9.0   | 71    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.600 | 0.624 | -4.0  | 82    | 0.00     |
| 28 T  | Bromochloromethane          | 0.476 | 0.422 | 11.3  | 74    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.276 | 0.304 | -10.1 | 84    | 0.00     |
| 30 C  | Chloroform                  | 1.034 | 1.095 | -5.9# | 83    | 0.00     |
| 31 T  | Cyclohexane                 | 0.966 | 0.929 | 3.8   | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.915 | 0.962 | -5.1  | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.722 | 0.777 | -7.6  | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.312 | 0.325 | -4.2  | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.431 | 0.443 | -2.8  | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.491 | 0.525 | -6.9  | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.444 | 0.458 | -3.2  | 80    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.534 | 0.526 | 1.5   | 79    | 0.00     |
| 40 TM | Benzene                     | 1.297 | 1.343 | -3.5  | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.242 | 0.248 | -2.5  | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.488 | 0.507 | -3.9  | 83    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.787 | 0.831 | -5.6  | 83    | 0.00     |
| 44 TM | Trichloroethene             | 0.326 | 0.329 | -0.9  | 82    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.330 | 0.339 | -2.7# | 82    | 0.00     |
| 46 T  | Dibromomethane              | 0.235 | 0.245 | -4.3  | 83    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.446 | 0.472 | -5.8  | 81    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.371 | 0.360 | 3.0   | 81    | 0.00     |

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 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                 | 0.008 | 0.008 | 0.0   | 84    | 0.00     |
| 50 S  | Toluene-d8                  | 1.246 | 1.325 | -6.3  | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.502 | 0.538 | -7.2  | 84    | 0.00     |
| 52 CM | Toluene                     | 0.850 | 0.876 | -3.1# | 82    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.494 | 0.508 | -2.8  | 78    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.520 | 0.537 | -3.3  | 79    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.341 | 0.353 | -3.5  | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.558 | 0.588 | -5.4  | 82    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.569 | 0.596 | -4.7  | 83    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.140 | 0.162 | -15.7 | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.387 | 0.402 | -3.9  | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.331 | 0.359 | -8.5  | 81    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.350 | 0.372 | -6.3  | 82    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.470 | 0.498 | -6.0  | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.319 | 0.318 | 0.3   | 84    | 0.00     |
| 65 PM | Chlorobenzene               | 0.984 | 0.985 | -0.1  | 82    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.341 | 0.369 | -8.2  | 81    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.793 | 1.851 | -3.2# | 82    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.668 | 0.693 | -3.7  | 81    | 0.00     |
| 69 T  | o-Xylene                    | 0.672 | 0.692 | -3.0  | 81    | 0.00     |
| 70 T  | Styrene                     | 1.095 | 1.143 | -4.4  | 81    | 0.00     |
| 71 P  | Bromoform                   | 0.257 | 0.275 | -7.0  | 79    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.203 | 4.172 | 0.7   | 81    | 0.00     |
| 74 T  | N-amyl acetate              | 1.656 | 1.661 | -0.3  | 82    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.342 | 1.354 | -0.9  | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.315 | 1.161 | 11.7  | 67    | 0.00     |
| 77 T  | Bromobenzene                | 0.986 | 0.952 | 3.4   | 83    | 0.00     |
| 78 T  | n-propylbenzene             | 4.757 | 4.701 | 1.2   | 81    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.996 | 2.886 | 3.7   | 81    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.489 | 3.475 | 0.4   | 81    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.400 | 0.379 | 5.3   | 74    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.955 | 2.813 | 4.8   | 80    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.044 | 3.003 | 1.3   | 81    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.413 | 3.388 | 0.7   | 81    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.218 | 4.201 | 0.4   | 80    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.364 | 3.367 | -0.1  | 80    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.725 | 1.656 | 4.0   | 81    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.749 | 1.616 | 7.6   | 81    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.849 | 2.672 | 6.2   | 77    | 0.00     |
| 90 T  | Hexachloroethane            | 0.577 | 0.596 | -3.3  | 78    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.681 | 1.632 | 2.9   | 82    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.263 | 0.267 | -1.5  | 82    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.859 | 0.731 | 14.9  | 81    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.414 | 0.390 | 5.8   | 78    | 0.00     |
| 95 T  | Naphthalene                 | 2.825 | 2.334 | 17.4  | 86    | 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 | 0.866 | 0.738 | 14.8 | 82    | 0.00     |

(#) = Out of Range

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