

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101421\  
 Data File : VN068916.D  
 Acq On : 14 Oct 2021 10:47  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 14 22:41:35 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 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   | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.546 | 0.534 | 2.2   | 81    | 0.00     |
| 3 P   | Chloromethane               | 0.611 | 0.560 | 8.3   | 79    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.621 | 0.605 | 2.6#  | 81    | 0.00     |
| 5 T   | Bromomethane                | 0.341 | 0.382 | -12.0 | 90    | 0.00     |
| 6 T   | Chloroethane                | 0.366 | 0.370 | -1.1  | 84    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.869 | 0.833 | 4.1   | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 0.324 | 0.309 | 4.6   | 82    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.467 | 0.461 | 1.3   | 85    | 0.00     |
| 10 T  | Methyl Iodide               | 0.678 | 0.625 | 7.8   | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.120 | 0.100 | 16.7  | 75    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.483 | 0.438 | 9.3#  | 81    | 0.00     |
| 13 T  | Acrolein                    | 0.053 | 0.037 | 30.2# | 70    | 0.00     |
| 14 T  | Allyl chloride              | 0.866 | 0.793 | 8.4   | 77    | 0.00     |
| 15 T  | Acrylonitrile               | 0.270 | 0.248 | 8.1   | 78    | 0.00     |
| 16 T  | Acetone                     | 0.246 | 0.260 | -5.7  | 90    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.311 | 1.187 | 9.5   | 77    | 0.00     |
| 18 T  | Methyl Acetate              | 0.933 | 0.847 | 9.2   | 78    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.799 | 1.760 | 2.2   | 82    | 0.00     |
| 20 T  | Methylene Chloride          | 0.566 | 0.526 | 7.1   | 82    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.522 | 0.488 | 6.5   | 81    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.801 | 1.763 | 2.1   | 80    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.362 | 1.323 | 2.9   | 80    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.979 | 0.921 | 5.9   | 81    | 0.00     |
| 25 T  | 2-Butanone                  | 0.372 | 0.370 | 0.5   | 83    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.933 | 0.899 | 3.6   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.631 | 0.599 | 5.1   | 83    | 0.00     |
| 28 T  | Bromochloromethane          | 0.443 | 0.406 | 8.4   | 83    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.241 | 0.226 | 6.2   | 76    | 0.00     |
| 30 C  | Chloroform                  | 1.031 | 1.018 | 1.3#  | 83    | 0.00     |
| 31 T  | Cyclohexane                 | 1.025 | 0.876 | 14.5  | 78    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.961 | 0.922 | 4.1   | 82    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.659 | 0.645 | 2.1   | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.291 | 0.304 | -4.5  | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.427 | 0.440 | -3.0  | 83    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.441 | 0.428 | 2.9   | 77    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.469 | 0.481 | -2.6  | 82    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.550 | 0.540 | 1.8   | 78    | 0.00     |
| 40 TM | Benzene                     | 1.300 | 1.331 | -2.4  | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.222 | 0.213 | 4.1   | 75    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.461 | 0.481 | -4.3  | 83    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.778 | 0.775 | 0.4   | 78    | 0.00     |
| 44 TM | Trichloroethene             | 0.325 | 0.341 | -4.9  | 84    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.337 | 0.342 | -1.5# | 81    | 0.00     |
| 46 T  | Dibromomethane              | 0.230 | 0.245 | -6.5  | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.477 | 0.497 | -4.2  | 82    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.366 | 0.332 | 9.3   | 72    | 0.00     |

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 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                 | 0.006 | 0.006 | 0.0   | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 1.164 | 1.210 | -4.0  | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.451 | 0.451 | 0.0   | 78    | 0.00     |
| 52 CM | Toluene                     | 0.837 | 0.883 | -5.5# | 82    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.541 | 0.572 | -5.7  | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.563 | 0.583 | -3.6  | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.330 | 0.349 | -5.8  | 85    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.554 | 0.577 | -4.2  | 83    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.544 | 0.578 | -6.2  | 83    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.134 | 0.138 | -3.0  | 82    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.324 | 0.337 | -4.0  | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.372 | 0.405 | -8.9  | 86    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.338 | 0.365 | -8.0  | 84    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.439 | 0.474 | -8.0  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.322 | 0.331 | -2.8  | 84    | 0.00     |
| 65 PM | Chlorobenzene               | 0.946 | 0.981 | -3.7  | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.370 | 0.381 | -3.0  | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.758 | 1.829 | -4.0# | 84    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.666 | 0.704 | -5.7  | 86    | 0.00     |
| 69 T  | o-Xylene                    | 0.667 | 0.699 | -4.8  | 85    | 0.00     |
| 70 T  | Styrene                     | 1.086 | 1.167 | -7.5  | 87    | 0.00     |
| 71 P  | Bromoform                   | 0.297 | 0.317 | -6.7  | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.162 | 3.951 | 5.1   | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 1.577 | 1.502 | 4.8   | 82    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.203 | 1.153 | 4.2   | 86    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.064 | 1.020 | 4.1   | 80    | 0.00     |
| 77 T  | Bromobenzene                | 0.920 | 0.927 | -0.8  | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 4.677 | 4.505 | 3.7   | 85    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.883 | 2.761 | 4.2   | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.466 | 3.310 | 4.5   | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.445 | 0.404 | 9.2   | 83    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.786 | 2.760 | 0.9   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.018 | 2.823 | 6.5   | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.340 | 3.261 | 2.4   | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.179 | 3.929 | 6.0   | 83    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.352 | 3.232 | 3.6   | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.592 | 1.668 | -4.8  | 91    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.580 | 1.638 | -3.7  | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.791 | 2.706 | 3.0   | 84    | 0.00     |
| 90 T  | Hexachloroethane            | 0.704 | 0.643 | 8.7   | 81    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.546 | 1.614 | -4.4  | 90    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.232 | 0.216 | 6.9   | 80    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.686 | 0.758 | -10.5 | 90    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.440 | 0.389 | 11.6  | 77    | 0.00     |
| 95 T  | Naphthalene                 | 1.793 | 2.030 | -13.2 | 89    | 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 | 0.650 | 0.719 | -10.6 | 89    | 0.00     |

(#) = Out of Range

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