

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122121\  
 Data File : VN070257.D  
 Acq On : 21 Dec 2021 10:16  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 21 15:22:08 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 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     | 0.583 | 0.497 | 14.8  | 69    | 0.00     |
| 3 P   | Chloromethane               | 0.731 | 0.595 | 18.6  | 71    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.672 | 0.575 | 14.4# | 73    | 0.00     |
| 5 T   | Bromomethane                | 0.365 | 0.321 | 12.1  | 75    | 0.00     |
| 6 T   | Chloroethane                | 0.412 | 0.353 | 14.3  | 74    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.882 | 0.802 | 9.1   | 79    | 0.00     |
| 8 T   | Diethyl Ether               | 0.340 | 0.357 | -5.0  | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.494 | 0.514 | -4.0  | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 0.675 | 0.644 | 4.6   | 78    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.146 | 0.115 | 21.2  | 67    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.476 | 0.466 | 2.1#  | 85    | 0.00     |
| 13 T  | Acrolein                    | 0.124 | 0.141 | -13.7 | 104   | 0.00     |
| 14 T  | Allyl chloride              | 1.073 | 1.090 | -1.6  | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 0.393 | 0.358 | 8.9   | 77    | 0.00     |
| 16 T  | Acetone                     | 0.464 | 0.429 | 7.5   | 78    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.230 | 0.983 | 20.1  | 67    | 0.00     |
| 18 T  | Methyl Acetate              | 1.402 | 1.237 | 11.8  | 77    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.852 | 1.996 | -7.8  | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 0.617 | 0.590 | 4.4   | 87    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.517 | 0.491 | 5.0   | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.098 | 2.314 | -10.3 | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.707 | 1.789 | -4.8  | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.087 | 1.139 | -4.8  | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 0.631 | 0.559 | 11.4  | 74    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.845 | 0.954 | -12.9 | 98    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.625 | 0.638 | -2.1  | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 0.565 | 0.513 | 9.2   | 79    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.383 | 0.332 | 13.3  | 72    | 0.00     |
| 30 C  | Chloroform                  | 1.097 | 1.144 | -4.3# | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 1.074 | 0.973 | 9.4   | 80    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.935 | 0.955 | -2.1  | 86    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.772 | 0.817 | -5.8  | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.313 | 0.355 | -13.4 | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.476 | 0.493 | -3.6  | 84    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.708 | 0.638 | 9.9   | 73    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.467 | 0.477 | -2.1  | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.566 | 0.575 | -1.6  | 81    | 0.00     |
| 40 TM | Benzene                     | 1.455 | 1.493 | -2.6  | 84    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.333 | 0.338 | -1.5  | 81    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.587 | 0.611 | -4.1  | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.048 | 1.067 | -1.8  | 82    | 0.00     |
| 44 TM | Trichloroethene             | 0.347 | 0.363 | -4.6  | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.391 | 0.424 | -8.4# | 90    | 0.00     |
| 46 T  | Dibromomethane              | 0.256 | 0.263 | -2.7  | 84    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.485 | 0.547 | -12.8 | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.489 | 0.489 | 0.0   | 81    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 21 15:22:08 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.007 | 22.2   | 67    | 0.00     |
| 50 S  | Toluene-d8                  | 1.258 | 1.362 | -8.3   | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.680 | 0.675 | 0.7    | 77    | 0.00     |
| 52 CM | Toluene                     | 0.888 | 0.931 | -4.8#  | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.510 | 0.600 | -17.6  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.548 | 0.641 | -17.0  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.358 | 0.388 | -8.4   | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.608 | 0.658 | -8.2   | 85    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.631 | 0.684 | -8.4   | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.154 | 0.173 | -12.3  | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.514 | 0.499 | 2.9    | 75    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.340 | 0.389 | -14.4  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.371 | 0.389 | -4.9   | 84    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.456 | 0.545 | -19.5  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.339 | 0.358 | -5.6   | 86    | 0.00     |
| 65 PM | Chlorobenzene               | 1.014 | 1.091 | -7.6   | 87    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.357 | 0.398 | -11.5  | 87    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.843 | 2.038 | -10.6# | 86    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.671 | 0.746 | -11.2  | 86    | 0.00     |
| 69 T  | o-Xylene                    | 0.676 | 0.756 | -11.8  | 87    | 0.00     |
| 70 T  | Styrene                     | 1.072 | 1.252 | -16.8  | 88    | 0.00     |
| 71 P  | Bromoform                   | 0.264 | 0.305 | -15.5  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.449 | 4.548 | -2.2   | 89    | 0.00     |
| 74 T  | N-amyl acetate              | 1.967 | 1.964 | 0.2    | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.538 | 1.445 | 6.0    | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.434 | 1.489 | -3.8   | 90    | 0.00     |
| 77 T  | Bromobenzene                | 1.045 | 1.043 | 0.2    | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 4.950 | 5.261 | -6.3   | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.128 | 3.231 | -3.3   | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.581 | 3.751 | -4.7   | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.396 | 0.406 | -2.5   | 81    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.942 | 3.175 | -7.9   | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.171 | 3.305 | -4.2   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.410 | 3.644 | -6.9   | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.301 | 4.617 | -7.3   | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.362 | 3.714 | -10.5  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.717 | 1.806 | -5.2   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.687 | 1.760 | -4.3   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.727 | 3.112 | -14.1  | 93    | 0.00     |
| 90 T  | Hexachloroethane            | 0.590 | 0.598 | -1.4   | 83    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.673 | 1.736 | -3.8   | 89    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.278 | 0.255 | 8.3    | 77    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.760 | 0.871 | -14.6  | 96    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.443 | 0.490 | -10.6  | 93    | 0.00     |
| 95 T  | Naphthalene                 | 2.199 | 2.249 | -2.3   | 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 | 0.749 | 0.820 | -9.5 | 91    | 0.00     |

(#) = Out of Range

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