

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN090220\  
 Data File : VN063206.D  
 Acq On : 2 Sep 2020 19:52  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 03 03:01:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N083120W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 01 04:21:28 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.492 | 0.470 | 4.5    | 97    | 0.00     |
| 3 P   | Chloromethane               | 0.717 | 0.640 | 10.7   | 93    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.792 | 0.714 | 9.8#   | 89    | 0.00     |
| 5 T   | Bromomethane                | 0.667 | 0.597 | 10.5   | 88    | 0.00     |
| 6 T   | Chloroethane                | 0.630 | 0.608 | 3.5    | 91    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.185 | 1.096 | 7.5    | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 0.379 | 0.352 | 7.1    | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.538 | 0.520 | 3.3    | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.734 | 0.694 | 5.4    | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.100 | 0.090 | 10.0   | 83    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.549 | 0.525 | 4.4#   | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.035 | 0.046 | -31.4# | 121   | 0.00     |
| 14 T  | Allyl chloride              | 0.974 | 0.908 | 6.8    | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 0.258 | 0.275 | -6.6   | 94    | 0.00     |
| 16 T  | Acetone                     | 0.232 | 0.231 | 0.4    | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.633 | 1.456 | 10.8   | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 0.596 | 0.660 | -10.7  | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.035 | 1.927 | 5.3    | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 0.705 | 0.634 | 10.1   | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.606 | 0.600 | 1.0    | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.183 | 2.117 | 3.0    | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.742 | 1.740 | 0.1    | 90    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.204 | 1.135 | 5.7    | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.360 | 0.375 | -4.2   | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.090 | 0.902 | 17.2   | 84    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.737 | 0.699 | 5.2    | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.629 | 0.537 | 14.6   | 81    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.249 | 0.245 | 1.6    | 90    | 0.00     |
| 30 C  | Chloroform                  | 1.259 | 1.217 | 3.3#   | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 1.121 | 0.977 | 12.8   | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.085 | 1.074 | 1.0    | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.817 | 0.828 | -1.3   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.321 | 0.328 | -2.2   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.481 | 0.479 | 0.4    | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.411 | 0.445 | -8.3   | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.487 | 0.488 | -0.2   | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.540 | 0.513 | 5.0    | 89    | 0.00     |
| 40 TM | Benzene                     | 1.413 | 1.435 | -1.6   | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.202 | 0.214 | -5.9   | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.528 | 0.542 | -2.7   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.784 | 0.814 | -3.8   | 92    | 0.00     |
| 44 TM | Trichloroethene             | 0.343 | 0.368 | -7.3   | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.374 | 0.365 | 2.4#   | 90    | 0.00     |

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 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.248 | 0.258 | -4.0  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.531 | 0.541 | -1.9  | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.353 | 0.372 | -5.4  | 91    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.005 | 0.005 | 0.0   | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 1.235 | 1.261 | -2.1  | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.426 | 0.463 | -8.7  | 92    | 0.00     |
| 52 CM | Toluene                     | 0.880 | 0.903 | -2.6# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.581 | 0.563 | 3.1   | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.610 | 0.604 | 1.0   | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.337 | 0.341 | -1.2  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.513 | 0.531 | -3.5  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.600 | 0.615 | -2.5  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.266 | 0.244 | 8.3   | 82    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.299 | 0.337 | -12.7 | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.373 | 0.401 | -7.5  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.350 | 0.372 | -6.3  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.432 | 0.462 | -6.9  | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.359 | 0.377 | -5.0  | 107   | 0.00     |
| 65 PM | Chlorobenzene               | 1.007 | 0.989 | 1.8   | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.372 | 0.5   | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.837 | 1.875 | -2.1# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.680 | 0.692 | -1.8  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.657 | 0.664 | -1.1  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.130 | 1.162 | -2.8  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.254 | 0.260 | -2.4  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.835 | 3.925 | -2.3  | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 1.588 | 1.682 | -5.9  | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.106 | 1.103 | 0.3   | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.982 | 0.952 | 3.1   | 91    | 0.00     |
| 77 T  | Bromobenzene                | 0.867 | 0.868 | -0.1  | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 4.438 | 4.585 | -3.3  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.658 | 2.662 | -0.2  | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.192 | 3.268 | -2.4  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.406 | 0.355 | 12.6  | 82    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.757 | 2.803 | -1.7  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.738 | 2.703 | 1.3   | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.217 | 3.309 | -2.9  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.568 | 3.686 | -3.3  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.168 | 3.322 | -4.9  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.593 | 1.639 | -2.9  | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.650 | 1.609 | 2.5   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.926 | 3.010 | -2.9  | 95    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.586 | 0.529 | 9.7  | 85    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.546 | 1.617 | -4.6 | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.243 | 0.235 | 3.3  | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.864 | 0.868 | -0.5 | 95    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.323 | 0.308 | 4.6  | 94    | 0.00     |
| 95 T | Naphthalene                 | 2.882 | 2.819 | 2.2  | 87    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.842 | 0.824 | 2.1  | 95    | 0.00     |

(#) = Out of Range

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