

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN052020\  
 Data File : VN061518.D  
 Acq On : 20 May 2020 22:07  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 21 03:07:41 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 18 13:09:55 2020  
 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.416 | 0.382 | 8.2   | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.678 | 0.522 | 23.0  | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.970 | 0.787 | 18.9# | 85    | 0.00     |
| 5 T   | Bromomethane                | 0.534 | 0.452 | 15.4  | 91    | 0.00     |
| 6 T   | Chloroethane                | 0.653 | 0.517 | 20.8  | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.178 | 1.052 | 10.7  | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 0.343 | 0.305 | 11.1  | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.490 | 0.452 | 7.8   | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 0.595 | 0.543 | 8.7   | 101   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.086 | 0.087 | -1.2  | 103   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.513 | 0.459 | 10.5# | 100   | 0.00     |
| 13 T  | Acrolein                    | 0.068 | 0.062 | 8.8   | 99    | 0.00     |
| 14 T  | Allyl chloride              | 0.834 | 0.666 | 20.1  | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 0.255 | 0.226 | 11.4  | 92    | 0.00     |
| 16 T  | Acetone                     | 0.228 | 0.169 | 25.9# | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.269 | 0.938 | 26.1# | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 0.572 | 0.466 | 18.5  | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.945 | 1.710 | 12.1  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.613 | 0.540 | 11.9  | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.591 | 0.529 | 10.5  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.874 | 1.517 | 19.1  | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.490 | 1.241 | 16.7  | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.093 | 0.933 | 14.6  | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 0.340 | 0.287 | 15.6  | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.042 | 0.823 | 21.0  | 85    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.698 | 0.654 | 6.3   | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 0.464 | 0.410 | 11.6  | 85    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.225 | 0.188 | 16.4  | 87    | 0.00     |
| 30 C  | Chloroform                  | 1.142 | 1.048 | 8.2#  | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 1.045 | 0.788 | 24.6  | 83    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.043 | 0.971 | 6.9   | 96    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.746 | 0.654 | 12.3  | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.262 | 0.256 | 2.3   | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.468 | 0.411 | 12.2  | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.424 | 0.346 | 18.4  | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.430 | 0.419 | 2.6   | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.571 | 0.467 | 18.2  | 84    | 0.00     |
| 40 TM | Benzene                     | 1.409 | 1.279 | 9.2   | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.179 | 0.146 | 18.4  | 81    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.508 | 0.435 | 14.4  | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.739 | 0.613 | 17.1  | 87    | 0.00     |
| 44 TM | Trichloroethene             | 0.369 | 0.363 | 1.6   | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.353 | 0.306 | 13.3# | 89    | 0.00     |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.247 | 0.230 | 6.9   | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.521 | 0.472 | 9.4   | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.342 | 0.275 | 19.6  | 86    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.004 | 0.005 | -25.0 | 138   | 0.00     |
| 50 S  | Toluene-d8                  | 1.215 | 1.159 | 4.6   | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.403 | 0.353 | 12.4  | 89    | 0.00     |
| 52 CM | Toluene                     | 0.905 | 0.853 | 5.7#  | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.571 | 0.513 | 10.2  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.607 | 0.533 | 12.2  | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.342 | 0.334 | 2.3   | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.535 | 0.496 | 7.3   | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.591 | 0.544 | 8.0   | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.235 | 0.215 | 8.5   | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.291 | 0.254 | 12.7  | 88    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.378 | 0.379 | -0.3  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.360 | 0.356 | 1.1   | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.454 | 0.449 | 1.1   | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.387 | 0.365 | 5.7   | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 1.020 | 0.967 | 5.2   | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.366 | 0.358 | 2.2   | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.861 | 1.725 | 7.3#  | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.706 | 0.673 | 4.7   | 97    | 0.00     |
| 69 T  | o-Xylene                    | 0.684 | 0.650 | 5.0   | 97    | 0.00     |
| 70 T  | Styrene                     | 1.132 | 1.105 | 2.4   | 97    | 0.00     |
| 71 P  | Bromoform                   | 0.258 | 0.267 | -3.5  | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 111   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.014 | 3.394 | 15.4  | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.469 | 1.152 | 21.6  | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.104 | 0.939 | 14.9  | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.073 | 0.956 | 10.9  | 103   | 0.00     |
| 77 T  | Bromobenzene                | 0.871 | 0.821 | 5.7   | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 4.574 | 3.808 | 16.7  | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.703 | 2.260 | 16.4  | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.287 | 2.834 | 13.8  | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.404 | 0.325 | 19.6  | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.799 | 2.392 | 14.5  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.815 | 2.406 | 14.5  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.289 | 2.893 | 12.0  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.807 | 3.125 | 17.9  | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.380 | 2.873 | 15.0  | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.594 | 1.506 | 5.5   | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.597 | 1.508 | 5.6   | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.071 | 2.429 | 20.9  | 85    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.458 | 0.388 | 15.3 | 88    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.529 | 1.440 | 5.8  | 102   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.223 | 0.187 | 16.1 | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.829 | 0.793 | 4.3  | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.368 | 0.289 | 21.5 | 86    | 0.00     |
| 95 T | Naphthalene                 | 2.636 | 2.596 | 1.5  | 101   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.825 | 0.770 | 6.7  | 99    | 0.00     |

(#) = Out of Range

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