

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN072719\  
 Data File : VN056954.D  
 Acq On : 26 Jul 2019 20:32  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 03 00:30:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 01:33:29 2019  
 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   | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.505 | 0.537 | -6.3  | 89    | 0.00     |
| 3 P   | Chloromethane               | 0.605 | 0.632 | -4.5  | 99    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.568 | 0.586 | -3.2# | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.353 | 0.340 | 3.7   | 92    | 0.00     |
| 6 T   | Chloroethane                | 0.313 | 0.318 | -1.6  | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.743 | 0.748 | -0.7  | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 0.278 | 0.294 | -5.8  | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.461 | 0.449 | 2.6   | 88    | 0.00     |
| 10 T  | Methyl Iodide               | 0.615 | 0.607 | 1.3   | 83    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.069 | 0.072 | -4.3  | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.439 | 0.453 | -3.2# | 93    | 0.00     |
| 13 T  | Acrolein                    | 0.038 | 0.033 | 13.2  | 85    | 0.00     |
| 14 T  | Allyl chloride              | 0.715 | 0.735 | -2.8  | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.203 | 0.219 | -7.9  | 91    | 0.00     |
| 16 T  | Acetone                     | 0.185 | 0.162 | 12.4  | 74    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.168 | 1.167 | 0.1   | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 0.592 | 0.591 | 0.2   | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.310 | 1.391 | -6.2  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.534 | 0.526 | 1.5   | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.467 | 0.482 | -3.2  | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.473 | 1.548 | -5.1  | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.021 | 1.106 | -8.3  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.869 | 0.895 | -3.0  | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 0.263 | 0.266 | -1.1  | 82    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.661 | 0.606 | 8.3   | 84    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.552 | 0.565 | -2.4  | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.409 | 0.422 | -3.2  | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.172 | 0.183 | -6.4  | 88    | 0.00     |
| 30 C  | Chloroform                  | 0.889 | 0.879 | 1.1#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 0.841 | 0.813 | 3.3   | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.709 | 0.737 | -3.9  | 96    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.512 | 0.550 | -7.4  | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.320 | 0.334 | -4.4  | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.440 | 0.439 | 0.2   | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.352 | 0.372 | -5.7  | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.416 | 0.429 | -3.1  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.562 | 0.547 | 2.7   | 89    | 0.00     |
| 40 TM | Benzene                     | 1.355 | 1.365 | -0.7  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.163 | 0.181 | -11.0 | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.425 | 0.423 | 0.5   | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.582 | 0.606 | -4.1  | 90    | 0.00     |
| 44 TM | Trichloroethene             | 0.373 | 0.371 | 0.5   | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.362 | 0.365 | -0.8# | 95    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN072719\  
 Data File : VN056954.D  
 Acq On : 26 Jul 2019 20:32  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 03 00:30:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 01:33:29 2019  
 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.219 | 0.229 | -4.6  | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.430 | 0.448 | -4.2  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.281 | 0.296 | -5.3  | 91    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.006 | 0.0   | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 1.221 | 1.260 | -3.2  | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.346 | 0.365 | -5.5  | 90    | 0.00     |
| 52 CM | Toluene                     | 0.814 | 0.836 | -2.7# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.446 | 0.462 | -3.6  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.519 | 0.545 | -5.0  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.327 | 0.331 | -1.2  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.439 | 0.480 | -9.3  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.541 | 0.555 | -2.6  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.196 | 0.194 | 1.0   | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.241 | 0.253 | -5.0  | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.335 | 0.360 | -7.5  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.319 | 0.337 | -5.6  | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.397 | 0.416 | -4.8  | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.431 | 0.419 | 2.8   | 98    | 0.00     |
| 65 PM | Chlorobenzene               | 1.019 | 1.005 | 1.4   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.384 | 0.384 | 0.0   | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.761 | 1.766 | -0.3# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.650 | 0.656 | -0.9  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.636 | 0.638 | -0.3  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.014 | 1.074 | -5.9  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.268 | 0.287 | -7.1  | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.321 | 4.038 | 6.5   | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.255 | 1.271 | -1.3  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.259 | 1.150 | 8.7   | 92    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.015 | 1.026 | -1.1  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 1.128 | 1.065 | 5.6   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 4.614 | 4.393 | 4.8   | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.841 | 2.637 | 7.2   | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.547 | 3.360 | 5.3   | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.316 | 0.315 | 0.3   | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.659 | 2.542 | 4.4   | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.140 | 2.945 | 6.2   | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.413 | 3.312 | 3.0   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.050 | 3.804 | 6.1   | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.595 | 3.415 | 5.0   | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.716 | 1.683 | 1.9   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.652 | 1.602 | 3.0   | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.771 | 2.736 | 1.3   | 91    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN072719\  
Data File : VN056954.D  
Acq On : 26 Jul 2019 20:32  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Aug 03 00:30:43 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072719W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 27 01:33:29 2019  
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) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.619 | 0.594 | 4.0   | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.688 | 1.685 | 0.2   | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.172 | 0.175 | -1.7  | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.732 | 0.815 | -11.3 | 90    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.703 | 0.602 | 14.4  | 90    | 0.00     |
| 95 T | Naphthalene                 | 1.679 | 1.899 | -13.1 | 88    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.766 | 0.806 | -5.2  | 88    | 0.00     |

(#) = Out of Range

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