

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU082819\  
 Data File : VU033978.D  
 Acq On : 27 Aug 2019 17:06  
 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU082819

Quant Time: Aug 28 04:14:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U082819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 28 02:42:03 2019  
 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   | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.503 | 0.499 | 0.8   | 100   | 0.00     |
| 3 P   | Chloromethane               | 0.606 | 0.601 | 0.8   | 132   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.502 | 0.497 | 1.0#  | 106   | 0.00     |
| 5 T   | Bromomethane                | 0.305 | 0.324 | -6.2  | 109   | -0.03    |
| 6 T   | Chloroethane                | 0.299 | 0.282 | 5.7   | 101   | -0.02    |
| 7 T   | Trichlorofluoromethane      | 0.661 | 0.650 | 1.7   | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 0.251 | 0.250 | 0.4   | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.422 | 0.417 | 1.2   | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 0.632 | 0.623 | 1.4   | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.144 | 0.135 | 6.2   | 99    | -0.06    |
| 12 CM | 1,1-Dichloroethene          | 0.440 | 0.430 | 2.3#  | 99    | 0.00     |
| 13 T  | Acrolein                    | 0.046 | 0.046 | 0.0   | 109   | 0.00     |
| 14 T  | Allyl chloride              | 0.780 | 0.783 | -0.4  | 102   | 0.00     |
| 15 T  | Acrylonitrile               | 0.291 | 0.301 | -3.4  | 104   | 0.00     |
| 16 T  | Acetone                     | 0.266 | 0.239 | 10.2  | 92    | -0.02    |
| 17 T  | Carbon Disulfide            | 1.446 | 1.418 | 1.9   | 105   | 0.00     |
| 18 T  | Methyl Acetate              | 0.655 | 0.667 | -1.8  | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.479 | 1.535 | -3.8  | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 0.564 | 0.532 | 5.7   | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.502 | 0.495 | 1.4   | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.433 | 1.464 | -2.2  | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.217 | 1.292 | -6.2  | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.897 | 0.889 | 0.9   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 0.381 | 0.394 | -3.4  | 102   | -0.02    |
| 26 T  | 2,2-Dichloropropane         | 0.758 | 0.732 | 3.4   | 98    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.562 | 0.572 | -1.8  | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 0.413 | 0.384 | 7.0   | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.238 | 0.248 | -4.2  | 103   | -0.01    |
| 30 C  | Chloroform                  | 0.918 | 0.877 | 4.5#  | 100   | 0.00     |
| 31 T  | Cyclohexane                 | 0.819 | 0.805 | 1.7   | 102   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.773 | 0.772 | 0.1   | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.555 | 0.560 | -0.9  | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.336 | 0.337 | -0.3  | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.458 | 0.449 | 2.0   | 101   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.459 | 0.479 | -4.4  | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.467 | 0.469 | -0.4  | 102   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.542 | 0.553 | -2.0  | 101   | 0.00     |
| 40 TM | Benzene                     | 1.362 | 1.373 | -0.8  | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.238 | 0.259 | -8.8  | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.460 | 0.454 | 1.3   | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.704 | 0.745 | -5.8  | 105   | 0.00     |
| 44 TM | Trichloroethene             | 0.388 | 0.387 | 0.3   | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.364 | 0.367 | -0.8# | 101   | 0.00     |

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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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.248 | 0.248 | 0.0   | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.472 | 0.478 | -1.3  | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.335 | 0.368 | -9.9  | 109   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.010 | -11.1 | 98    | -0.06    |
| 50 S  | Toluene-d8                  | 1.240 | 1.302 | -5.0  | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.486 | 0.508 | -4.5  | 106   | 0.00     |
| 52 CM | Toluene                     | 0.859 | 0.893 | -4.0# | 104   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.522 | 0.544 | -4.2  | 106   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.564 | 0.588 | -4.3  | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.363 | 0.365 | -0.6  | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.513 | 0.568 | -10.7 | 109   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.591 | 0.608 | -2.9  | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.187 | 0.205 | -9.6  | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.373 | 0.394 | -5.6  | 106   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.408 | 0.413 | -1.2  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.383 | 0.393 | -2.6  | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.476 | 0.496 | -4.2  | 111   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.402 | 0.388 | 3.5   | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 1.030 | 1.038 | -0.8  | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.384 | 0.381 | 0.8   | 103   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.717 | 1.779 | -3.6# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.662 | 0.697 | -5.3  | 107   | 0.00     |
| 69 T  | o-Xylene                    | 0.633 | 0.673 | -6.3  | 109   | 0.00     |
| 70 T  | Styrene                     | 1.083 | 1.173 | -8.3  | 108   | 0.00     |
| 71 P  | Bromoform                   | 0.340 | 0.351 | -3.2  | 109   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.218 | 3.408 | -5.9  | 109   | 0.00     |
| 74 T  | N-amyl acetate              | 1.208 | 1.344 | -11.3 | 109   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.159 | 1.151 | 0.7   | 109   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.996 | 1.008 | -1.2  | 107   | 0.00     |
| 77 T  | Bromobenzene                | 0.909 | 0.915 | -0.7  | 109   | 0.00     |
| 78 T  | n-propylbenzene             | 3.649 | 3.890 | -6.6  | 109   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.202 | 2.297 | -4.3  | 110   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.756 | 2.941 | -6.7  | 108   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.348 | 0.361 | -3.7  | 102   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.549 | 2.651 | -4.0  | 109   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.675 | 2.852 | -6.6  | 112   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.706 | 2.924 | -8.1  | 108   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.193 | 3.411 | -6.8  | 109   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.989 | 3.201 | -7.1  | 108   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.613 | 1.624 | -0.7  | 107   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.628 | 1.601 | 1.7   | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.498 | 2.741 | -9.7  | 108   | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 90 T | Hexachloroethane            | 0.494 | 0.513 | -3.8   | 109   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.588 | 1.599 | -0.7   | 107   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.232 | 0.256 | -10.3  | 107   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.978 | 1.136 | -16.2  | 105   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.651 | 0.661 | -1.5   | 108   | 0.00     |
| 95 T | Naphthalene                 | 2.592 | 3.310 | -27.7# | 108   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.015 | 1.135 | -11.8  | 105   | 0.00     |

(#) = Out of Range

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