

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX021220\  
 Data File : VX014935.D  
 Acq On : 12 Feb 2020 18:47  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 13 05:36:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 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    | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.474 | 0.479 | -1.1   | 92    | 0.00     |
| 3 P   | Chloromethane               | 0.537 | 0.552 | -2.8   | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.578 | 0.587 | -1.6#  | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.374 | 0.362 | 3.2    | 101   | 0.00     |
| 6 T   | Chloroethane                | 0.370 | 0.369 | 0.3    | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.808 | 0.795 | 1.6    | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 0.335 | 0.340 | -1.5   | 99    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.469 | 0.450 | 4.1    | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.451 | 0.589 | -30.6# | 112   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.100 | 0.119 | -19.0  | 117   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.458 | 0.459 | -0.2#  | 96    | 0.00     |
| 13 T  | Acrolein                    | 0.076 | 0.064 | 15.8   | 84    | 0.00     |
| 14 T  | Allyl chloride              | 0.813 | 0.811 | 0.2    | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 0.253 | 0.263 | -4.0   | 99    | 0.00     |
| 16 T  | Acetone                     | 0.333 | 0.263 | 21.0#  | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.281 | 1.235 | 3.6    | 93    | 0.00     |
| 18 T  | Methyl Acetate              | 0.568 | 0.597 | -5.1   | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.492 | 1.543 | -3.4   | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 0.543 | 0.513 | 5.5    | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.506 | 0.499 | 1.4    | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.552 | 1.604 | -3.4   | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.279 | 1.411 | -10.3  | 103   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.876 | 0.882 | -0.7   | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 0.384 | 0.384 | 0.0    | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.755 | 0.726 | 3.8    | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.565 | 0.568 | -0.5   | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 0.339 | 0.354 | -4.4   | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.218 | 0.238 | -9.2   | 101   | 0.00     |
| 30 C  | Chloroform                  | 0.869 | 0.881 | -1.4#  | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 0.798 | 0.794 | 0.5    | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.760 | 0.757 | 0.4    | 96    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.564 | 0.554 | 1.8    | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.307 | 0.310 | -1.0   | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.447 | 0.451 | -0.9   | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.466 | 0.489 | -4.9   | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.436 | 0.435 | 0.2    | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.559 | 0.557 | 0.4    | 97    | 0.00     |
| 40 TM | Benzene                     | 1.336 | 1.346 | -0.7   | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.251 | 0.269 | -7.2   | 99    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.483 | 0.475 | 1.7    | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.770 | 0.813 | -5.6   | 101   | 0.00     |
| 44 TM | Trichloroethene             | 0.388 | 0.381 | 1.8    | 97    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.341 | 0.344 | -0.9#  | 98    | 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              | 0.233 | 0.232 | 0.4    | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.462 | 0.459 | 0.6    | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.379 | 0.406 | -7.1   | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.007 | 0.009 | -28.6# | 123   | 0.00     |
| 50 S  | Toluene-d8                  | 1.173 | 1.184 | -0.9   | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.465 | 0.496 | -6.7   | 101   | 0.00     |
| 52 CM | Toluene                     | 0.849 | 0.861 | -1.4#  | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.506 | 0.526 | -4.0   | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.559 | 0.568 | -1.6   | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.343 | 0.344 | -0.3   | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.516 | 0.560 | -8.5   | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.578 | 0.581 | -0.5   | 99    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.270 | 0.284 | -5.2   | 103   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.365 | 0.387 | -6.0   | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.370 | 0.374 | -1.1   | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.371 | 0.373 | -0.5   | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.423 | 0.445 | -5.2   | 108   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.467 | 0.389 | 16.7   | 83    | 0.00     |
| 65 PM | Chlorobenzene               | 1.014 | 0.995 | 1.9    | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.368 | 0.367 | 0.3    | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.725 | 1.752 | -1.6#  | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.664 | 0.673 | -1.4   | 99    | 0.00     |
| 69 T  | o-Xylene                    | 0.639 | 0.637 | 0.3    | 98    | 0.00     |
| 70 T  | Styrene                     | 1.080 | 1.137 | -5.3   | 100   | 0.00     |
| 71 P  | Bromoform                   | 0.307 | 0.312 | -1.6   | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.136 | 3.139 | -0.1   | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 1.303 | 1.482 | -13.7  | 106   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.025 | 1.023 | 0.2    | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.904 | 0.856 | 5.3    | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.875 | 0.856 | 2.2    | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 3.627 | 3.651 | -0.7   | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.132 | 2.098 | 1.6    | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.620 | 2.649 | -1.1   | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.353 | 0.356 | -0.8   | 97    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.525 | 2.497 | 1.1    | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.481 | 2.643 | -6.5   | 105   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.640 | 2.692 | -2.0   | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.082 | 3.081 | 0.0    | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.884 | 2.882 | 0.1    | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.570 | 1.551 | 1.2    | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.603 | 1.546 | 3.6    | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.583 | 2.634 | -2.0   | 99    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.504 | 0.502 | 0.4   | 97    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.540 | 1.492 | 3.1   | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.240 | 0.232 | 3.3   | 100   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.136 | 1.167 | -2.7  | 102   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.550 | 0.507 | 7.8   | 92    | 0.00     |
| 95 T | Naphthalene                 | 3.022 | 3.362 | -11.3 | 103   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.098 | 1.118 | -1.8  | 99    | 0.00     |

(#) = Out of Range

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