

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX081418\  
 Data File : VX004044.D  
 Acq On : 14 Aug 2018 21:16  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050EC

Quant Time: Aug 15 15:00:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X081418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 14 13:27:25 2018  
 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   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.487 | 0.525 | -7.8  | 96    | 0.00     |
| 3 P   | Chloromethane               | 0.597 | 0.614 | -2.8  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.646 | 0.676 | -4.6# | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.369 | 0.349 | 5.4   | 98    | 0.00     |
| 6 T   | Chloroethane                | 0.496 | 0.465 | 6.2   | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.907 | 0.941 | -3.7  | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 0.396 | 0.406 | -2.5  | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.566 | 0.571 | -0.9  | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 0.548 | 0.568 | -3.6  | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.142 | 0.149 | -4.9  | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.526 | 0.552 | -4.9# | 97    | 0.00     |
| 13 T  | Acrolein                    | 0.088 | 0.098 | -11.4 | 93    | 0.00     |
| 14 T  | Allyl chloride              | 1.001 | 1.006 | -0.5  | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 0.354 | 0.375 | -5.9  | 98    | 0.00     |
| 16 T  | Acetone                     | 0.366 | 0.381 | -4.1  | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.492 | 1.527 | -2.3  | 95    | 0.00     |
| 18 T  | Methyl Acetate              | 0.814 | 0.850 | -4.4  | 99    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.853 | 1.918 | -3.5  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 0.662 | 0.648 | 2.1   | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.597 | 0.602 | -0.8  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.961 | 2.009 | -2.4  | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.611 | 1.713 | -6.3  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.111 | 1.152 | -3.7  | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 0.596 | 0.630 | -5.7  | 98    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.883 | 0.734 | 16.9  | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.672 | 0.697 | -3.7  | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 0.510 | 0.544 | -6.7  | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.304 | 0.315 | -3.6  | 97    | 0.00     |
| 30 C  | Chloroform                  | 1.084 | 1.114 | -2.8# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 0.974 | 0.997 | -2.4  | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.906 | 0.945 | -4.3  | 96    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.704 | 0.764 | -8.5  | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.374 | 0.381 | -1.9  | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.569 | 0.542 | 4.7   | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.620 | 0.605 | 2.4   | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.553 | 0.541 | 2.2   | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.645 | 0.641 | 0.6   | 94    | 0.00     |
| 40 TM | Benzene                     | 1.708 | 1.701 | 0.4   | 98    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.347 | 0.331 | 4.6   | 97    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.598 | 0.591 | 1.2   | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.913 | 0.919 | -0.7  | 98    | 0.00     |
| 44 TM | Trichloroethene             | 0.464 | 0.452 | 2.6   | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.437 | 0.440 | -0.7# | 99    | 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              | 0.286 | 0.285 | 0.3    | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.541 | 0.552 | -2.0   | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.460 | 0.488 | -6.1   | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.011 | -10.0  | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 1.517 | 1.540 | -1.5   | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.749 | 0.795 | -6.1   | 99    | 0.00     |
| 52 CM | Toluene                     | 1.080 | 1.094 | -1.3#  | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.585 | 0.596 | -1.9   | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.648 | 0.658 | -1.5   | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.446 | 0.443 | 0.7    | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.607 | 0.662 | -9.1   | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.740 | 0.751 | -1.5   | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.309 | 0.340 | -10.0  | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.564 | 0.609 | -8.0   | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.429 | 0.447 | -4.2   | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.455 | 0.465 | -2.2   | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.550 | 0.576 | -4.7   | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.474 | 0.465 | 1.9    | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 1.292 | 1.224 | 5.3    | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.441 | 0.435 | 1.4    | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.045 | 2.092 | -2.3#  | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.801 | 0.831 | -3.7   | 99    | 0.00     |
| 69 T  | o-Xylene                    | 0.765 | 0.795 | -3.9   | 96    | 0.00     |
| 70 T  | Styrene                     | 1.288 | 1.370 | -6.4   | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.349 | 0.358 | -2.6   | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.384 | 3.425 | -1.2   | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.591 | 1.527 | 4.0    | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.182 | 1.150 | 2.7    | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.003 | 1.305 | -30.1# | 127   | 0.00     |
| 77 T  | Bromobenzene                | 0.933 | 0.913 | 2.1    | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 3.787 | 3.974 | -4.9   | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.308 | 2.333 | -1.1   | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.771 | 2.844 | -2.6   | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.324 | 0.317 | 2.2    | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.728 | 2.701 | 1.0    | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.793 | 2.871 | -2.8   | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.869 | 2.977 | -3.8   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.269 | 3.428 | -4.9   | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.960 | 3.106 | -4.9   | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.779 | 1.695 | 4.7    | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.831 | 1.696 | 7.4    | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.332 | 2.411 | -3.4   | 101   | 0.00     |

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|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.443 | 0.420 | 5.2   | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.604 | 1.609 | -0.3  | 105   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.208 | 0.207 | 0.5   | 97    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.097 | 1.089 | 0.7   | 93    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.550 | 0.514 | 6.5   | 95    | 0.00     |
| 95 T | Naphthalene                 | 3.155 | 3.598 | -14.0 | 99    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.196 | 1.212 | -1.3  | 95    | 0.00     |

(#) = Out of Range

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