

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX100119\  
 Data File : VX012748.D  
 Acq On : 01 Oct 2019 21:05  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 02 05:26:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 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   | 84    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.562 | 0.479 | 14.8  | 76    | 0.00     |
| 3 P   | Chloromethane               | 0.646 | 0.543 | 15.9  | 75    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.642 | 0.577 | 10.1# | 79    | 0.00     |
| 5 T   | Bromomethane                | 0.252 | 0.224 | 11.1  | 85    | 0.00     |
| 6 T   | Chloroethane                | 0.433 | 0.371 | 14.3  | 80    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.901 | 0.823 | 8.7   | 81    | 0.00     |
| 8 T   | Diethyl Ether               | 0.369 | 0.336 | 8.9   | 81    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.549 | 0.512 | 6.7   | 82    | 0.00     |
| 10 T  | Methyl Iodide               | 0.517 | 0.551 | -6.6  | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.182 | 0.171 | 6.0   | 80    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.538 | 0.517 | 3.9#  | 81    | 0.00     |
| 13 T  | Acrolein                    | 0.094 | 0.089 | 5.3   | 76    | 0.00     |
| 14 T  | Allyl chloride              | 1.067 | 0.973 | 8.8   | 78    | 0.00     |
| 15 T  | Acrylonitrile               | 0.369 | 0.353 | 4.3   | 81    | 0.00     |
| 16 T  | Acetone                     | 0.386 | 0.298 | 22.8# | 65    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.507 | 1.303 | 13.5  | 76    | 0.00     |
| 18 T  | Methyl Acetate              | 0.908 | 0.872 | 4.0   | 85    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.035 | 1.941 | 4.6   | 82    | 0.00     |
| 20 T  | Methylene Chloride          | 0.652 | 0.609 | 6.6   | 83    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.596 | 0.558 | 6.4   | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.061 | 1.934 | 6.2   | 81    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.807 | 1.682 | 6.9   | 78    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.120 | 1.070 | 4.5   | 82    | 0.00     |
| 25 T  | 2-Butanone                  | 0.553 | 0.487 | 11.9  | 75    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.996 | 0.782 | 21.5# | 68    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.691 | 0.665 | 3.8   | 83    | 0.00     |
| 28 T  | Bromochloromethane          | 0.407 | 0.377 | 7.4   | 80    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.337 | 0.313 | 7.1   | 78    | 0.00     |
| 30 C  | Chloroform                  | 1.146 | 1.081 | 5.7#  | 84    | 0.00     |
| 31 T  | Cyclohexane                 | 1.013 | 0.931 | 8.1   | 80    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.016 | 0.947 | 6.8   | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.728 | 0.664 | 8.8   | 80    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 82    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.298 | 0.295 | 1.0   | 84    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.482 | 0.449 | 6.8   | 82    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.563 | 0.527 | 6.4   | 79    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.490 | 0.463 | 5.5   | 80    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.580 | 0.532 | 8.3   | 81    | 0.00     |
| 40 TM | Benzene                     | 1.418 | 1.360 | 4.1   | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.316 | 0.295 | 6.6   | 80    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.538 | 0.499 | 7.2   | 80    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.942 | 0.866 | 8.1   | 79    | 0.00     |
| 44 TM | Trichloroethene             | 0.363 | 0.351 | 3.3   | 84    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.363 | 0.356 | 1.9#  | 85    | 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              | 0.247 | 0.235 | 4.9  | 83    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.494 | 0.472 | 4.5  | 81    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.452 | 0.422 | 6.6  | 78    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.010 | 0.0  | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 1.147 | 1.099 | 4.2  | 83    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.582 | 0.541 | 7.0  | 79    | 0.00     |
| 52 CM | Toluene                     | 0.891 | 0.856 | 3.9# | 82    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.547 | 0.514 | 6.0  | 78    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.597 | 0.564 | 5.5  | 79    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.354 | 0.343 | 3.1  | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.595 | 0.584 | 1.8  | 82    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.620 | 0.603 | 2.7  | 84    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.267 | 0.274 | -2.6 | 82    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.445 | 0.415 | 6.7  | 77    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.359 | 0.366 | -1.9 | 84    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.369 | 0.367 | 0.5  | 84    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.451 | 0.419 | 7.1  | 81    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 82    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.349 | 0.354 | -1.4 | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 1.053 | 1.011 | 4.0  | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.381 | 0.380 | 0.3  | 84    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.910 | 1.853 | 3.0# | 82    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.715 | 0.692 | 3.2  | 82    | 0.00     |
| 69 T  | o-Xylene                    | 0.692 | 0.676 | 2.3  | 83    | 0.00     |
| 70 T  | Styrene                     | 1.160 | 1.160 | 0.0  | 83    | 0.00     |
| 71 P  | Bromoform                   | 0.266 | 0.268 | -0.8 | 82    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 84    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.072 | 3.792 | 6.9  | 82    | 0.00     |
| 74 T  | N-amyl acetate              | 1.943 | 1.780 | 8.4  | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.349 | 1.286 | 4.7  | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.323 | 1.353 | -2.3 | 88    | 0.00     |
| 77 T  | Bromobenzene                | 0.922 | 0.884 | 4.1  | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 4.585 | 4.200 | 8.4  | 81    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.860 | 2.597 | 9.2  | 81    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.415 | 3.217 | 5.8  | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.462 | 0.396 | 14.3 | 72    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.260 | 3.041 | 6.7  | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.294 | 3.100 | 5.9  | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.445 | 3.316 | 3.7  | 84    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.832 | 3.611 | 5.8  | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.457 | 3.336 | 3.5  | 82    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.659 | 1.601 | 3.5  | 84    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.676 | 1.593 | 5.0  | 83    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.047 | 2.807 | 7.9  | 79    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.616 | 0.591 | 4.1  | 83    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.661 | 1.600 | 3.7  | 84    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.337 | 0.324 | 3.9  | 78    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.013 | 1.012 | 0.1  | 85    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.436 | 0.431 | 1.1  | 86    | 0.00     |
| 95 T | Naphthalene                 | 3.664 | 3.746 | -2.2 | 83    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.014 | 1.025 | -1.1 | 85    | 0.00     |

(#) = Out of Range

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