

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX120919\  
 Data File : VX013870.D  
 Acq On : 09 Dec 2019 23:10  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 10 05:37:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 26 15:53:00 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    | 77    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.557 | 0.512 | 8.1    | 70    | 0.00     |
| 3 P   | Chloromethane               | 0.624 | 0.597 | 4.3    | 74    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.703 | 0.713 | -1.4#  | 77    | 0.00     |
| 5 T   | Bromomethane                | 0.472 | 0.468 | 0.8    | 83    | 0.00     |
| 6 T   | Chloroethane                | 0.400 | 0.385 | 3.8    | 78    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.780 | 0.753 | 3.5    | 79    | 0.00     |
| 8 T   | Diethyl Ether               | 0.353 | 0.363 | -2.8   | 82    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.477 | 0.458 | 4.0    | 78    | 0.00     |
| 10 T  | Methyl Iodide               | 0.577 | 0.566 | 1.9    | 72    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.143 | 0.130 | 9.1    | 76    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.476 | 0.463 | 2.7#   | 77    | 0.00     |
| 13 T  | Acrolein                    | 0.088 | 0.107 | -21.6# | 87    | 0.00     |
| 14 T  | Allyl chloride              | 0.864 | 0.852 | 1.4    | 77    | 0.00     |
| 15 T  | Acrylonitrile               | 0.296 | 0.307 | -3.7   | 81    | 0.00     |
| 16 T  | Acetone                     | 0.287 | 0.326 | -13.6  | 90    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.356 | 1.161 | 14.4   | 69    | 0.00     |
| 18 T  | Methyl Acetate              | 0.798 | 0.891 | -11.7  | 85    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.576 | 1.623 | -3.0   | 81    | 0.00     |
| 20 T  | Methylene Chloride          | 0.551 | 0.546 | 0.9    | 81    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.518 | 0.500 | 3.5    | 78    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.663 | 1.741 | -4.7   | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.383 | 1.291 | 6.7    | 72    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.909 | 0.936 | -3.0   | 81    | 0.00     |
| 25 T  | 2-Butanone                  | 0.426 | 0.455 | -6.8   | 82    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.752 | 0.637 | 15.3   | 67    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.595 | 0.595 | 0.0    | 80    | 0.00     |
| 28 T  | Bromochloromethane          | 0.320 | 0.393 | -22.8# | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.263 | 0.274 | -4.2   | 79    | 0.00     |
| 30 C  | Chloroform                  | 0.922 | 0.918 | 0.4#   | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 0.857 | 0.805 | 6.1    | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.770 | 0.769 | 0.1    | 79    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.580 | 0.554 | 4.5    | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 78    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.309 | 0.306 | 1.0    | 81    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.454 | 0.432 | 4.8    | 76    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.509 | 0.520 | -2.2   | 78    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.419 | 0.417 | 0.5    | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.561 | 0.515 | 8.2    | 74    | 0.00     |
| 40 TM | Benzene                     | 1.382 | 1.373 | 0.7    | 80    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.279 | 0.308 | -10.4  | 84    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.471 | 0.474 | -0.6   | 81    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.838 | 0.851 | -1.6   | 80    | 0.00     |
| 44 TM | Trichloroethene             | 0.379 | 0.371 | 2.1    | 79    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.346 | 0.359 | -3.8#  | 82    | 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              | 0.235 | 0.229 | 2.6    | 80    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.444 | 0.459 | -3.4   | 81    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.407 | 0.428 | -5.2   | 80    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.008 | 11.1   | 69    | 0.00     |
| 50 S  | Toluene-d8                  | 1.204 | 1.143 | 5.1    | 78    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.527 | 0.556 | -5.5   | 82    | 0.00     |
| 52 CM | Toluene                     | 0.859 | 0.851 | 0.9#   | 79    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.505 | 0.497 | 1.6    | 76    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.552 | 0.558 | -1.1   | 78    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.346 | 0.365 | -5.5   | 84    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.556 | 0.579 | -4.1   | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.597 | 0.604 | -1.2   | 82    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.218 | 0.221 | -1.4   | 80    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.411 | 0.430 | -4.6   | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.359 | 0.375 | -4.5   | 80    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.370 | 0.372 | -0.5   | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.434 | 0.416 | 4.1    | 79    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 77    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.373 | 0.476 | -27.6# | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 1.038 | 1.027 | 1.1    | 81    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.373 | 0.388 | -4.0   | 82    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.784 | 1.799 | -0.8#  | 79    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.683 | 0.681 | 0.3    | 79    | 0.00     |
| 69 T  | o-Xylene                    | 0.666 | 0.668 | -0.3   | 79    | 0.00     |
| 70 T  | Styrene                     | 1.120 | 1.156 | -3.2   | 80    | 0.00     |
| 71 P  | Bromoform                   | 0.308 | 0.324 | -5.2   | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 76    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.507 | 3.574 | -1.9   | 79    | 0.00     |
| 74 T  | N-amyl acetate              | 1.607 | 1.689 | -5.1   | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.216 | 1.261 | -3.7   | 80    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.125 | 1.169 | -3.9   | 79    | 0.00     |
| 77 T  | Bromobenzene                | 0.948 | 0.942 | 0.6    | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 3.915 | 4.014 | -2.5   | 79    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.349 | 2.393 | -1.9   | 80    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.875 | 2.970 | -3.3   | 79    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.411 | 0.406 | 1.2    | 75    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.720 | 2.738 | -0.7   | 79    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.921 | 2.818 | 3.5    | 75    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.917 | 2.980 | -2.2   | 79    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.337 | 3.458 | -3.6   | 80    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.104 | 3.171 | -2.2   | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.652 | 1.638 | 0.8    | 79    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.682 | 1.638 | 2.6    | 80    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.648 | 2.657 | -0.3   | 76    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.561 | 0.569 | -1.4 | 80    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.632 | 1.656 | -1.5 | 80    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.265 | 0.274 | -3.4 | 78    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.137 | 1.095 | 3.7  | 75    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.546 | 0.519 | 4.9  | 80    | 0.00     |
| 95 T | Naphthalene                 | 3.387 | 3.500 | -3.3 | 77    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.126 | 1.133 | -0.6 | 79    | 0.00     |

(#) = Out of Range

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