

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX120919\  
 Data File : VX013885.D  
 Acq On : 10 Dec 2019 09:12  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 10 10:17:03 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    | 80    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.557 | 0.506 | 9.2    | 72    | 0.00     |
| 3 P   | Chloromethane               | 0.624 | 0.589 | 5.6    | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.703 | 0.694 | 1.3#   | 78    | 0.00     |
| 5 T   | Bromomethane                | 0.472 | 0.422 | 10.6   | 78    | 0.00     |
| 6 T   | Chloroethane                | 0.400 | 0.382 | 4.5    | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.780 | 0.736 | 5.6    | 80    | 0.00     |
| 8 T   | Diethyl Ether               | 0.353 | 0.341 | 3.4    | 80    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.477 | 0.469 | 1.7    | 83    | 0.00     |
| 10 T  | Methyl Iodide               | 0.577 | 0.568 | 1.6    | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.143 | 0.115 | 19.6   | 70    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.476 | 0.477 | -0.2#  | 83    | 0.00     |
| 13 T  | Acrolein                    | 0.088 | 0.087 | 1.1    | 73    | 0.00     |
| 14 T  | Allyl chloride              | 0.864 | 0.789 | 8.7    | 75    | 0.00     |
| 15 T  | Acrylonitrile               | 0.296 | 0.282 | 4.7    | 78    | 0.00     |
| 16 T  | Acetone                     | 0.287 | 0.249 | 13.2   | 71    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.356 | 1.146 | 15.5   | 71    | 0.00     |
| 18 T  | Methyl Acetate              | 0.798 | 0.821 | -2.9   | 82    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.576 | 1.561 | 1.0    | 81    | 0.00     |
| 20 T  | Methylene Chloride          | 0.551 | 0.530 | 3.8    | 82    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.518 | 0.493 | 4.8    | 80    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.663 | 1.669 | -0.4   | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.383 | 1.275 | 7.8    | 74    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.909 | 0.903 | 0.7    | 82    | 0.00     |
| 25 T  | 2-Butanone                  | 0.426 | 0.387 | 9.2    | 72    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.752 | 0.452 | 39.9#  | 50#   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.595 | 0.568 | 4.5    | 80    | 0.00     |
| 28 T  | Bromochloromethane          | 0.320 | 0.388 | -21.3# | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.263 | 0.252 | 4.2    | 76    | 0.00     |
| 30 C  | Chloroform                  | 0.922 | 0.885 | 4.0#   | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 0.857 | 0.781 | 8.9    | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.770 | 0.743 | 3.5    | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.580 | 0.548 | 5.5    | 80    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.309 | 0.300 | 2.9    | 83    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.454 | 0.427 | 5.9    | 79    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.509 | 0.489 | 3.9    | 76    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.419 | 0.414 | 1.2    | 81    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.561 | 0.496 | 11.6   | 74    | 0.00     |
| 40 TM | Benzene                     | 1.382 | 1.310 | 5.2    | 80    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.279 | 0.281 | -0.7   | 80    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.471 | 0.460 | 2.3    | 82    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.838 | 0.802 | 4.3    | 78    | 0.00     |
| 44 TM | Trichloroethene             | 0.379 | 0.363 | 4.2    | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.346 | 0.347 | -0.3#  | 83    | 0.00     |

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 Quant Title : SW846 8260  
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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 | 0.228 | 3.0   | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.444 | 0.447 | -0.7  | 82    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.407 | 0.404 | 0.7   | 79    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.007 | 22.2# | 67    | 0.00     |
| 50 S  | Toluene-d8                  | 1.204 | 1.122 | 6.8   | 80    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.527 | 0.506 | 4.0   | 78    | 0.00     |
| 52 CM | Toluene                     | 0.859 | 0.833 | 3.0#  | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.505 | 0.465 | 7.9   | 74    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.552 | 0.517 | 6.3   | 75    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.346 | 0.346 | 0.0   | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.556 | 0.546 | 1.8   | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.597 | 0.579 | 3.0   | 82    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.218 | 0.212 | 2.8   | 79    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.411 | 0.383 | 6.8   | 75    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.359 | 0.365 | -1.7  | 81    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.370 | 0.359 | 3.0   | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.434 | 0.419 | 3.5   | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.373 | 0.445 | -19.3 | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 1.038 | 0.988 | 4.8   | 81    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.373 | 0.373 | 0.0   | 82    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.784 | 1.743 | 2.3#  | 80    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.683 | 0.662 | 3.1   | 80    | 0.00     |
| 69 T  | o-Xylene                    | 0.666 | 0.644 | 3.3   | 80    | 0.00     |
| 70 T  | Styrene                     | 1.120 | 1.119 | 0.1   | 81    | 0.00     |
| 71 P  | Bromoform                   | 0.308 | 0.309 | -0.3  | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.507 | 3.435 | 2.1   | 81    | 0.00     |
| 74 T  | N-amyl acetate              | 1.607 | 1.594 | 0.8   | 79    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.216 | 1.174 | 3.5   | 80    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.125 | 1.084 | 3.6   | 78    | 0.00     |
| 77 T  | Bromobenzene                | 0.948 | 0.900 | 5.1   | 80    | 0.00     |
| 78 T  | n-propylbenzene             | 3.915 | 3.893 | 0.6   | 81    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.349 | 2.299 | 2.1   | 82    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.875 | 2.866 | 0.3   | 81    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.411 | 0.329 | 20.0  | 64    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.720 | 2.660 | 2.2   | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.921 | 2.713 | 7.1   | 76    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.917 | 2.855 | 2.1   | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.337 | 3.330 | 0.2   | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.104 | 3.032 | 2.3   | 80    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.652 | 1.583 | 4.2   | 81    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.682 | 1.593 | 5.3   | 82    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.648 | 2.657 | -0.3  | 81    | 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 | 0.568 | -1.2 | 84    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.632 | 1.590 | 2.6  | 81    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.265 | 0.249 | 6.0  | 75    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.137 | 1.093 | 3.9  | 80    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.546 | 0.513 | 6.0  | 84    | 0.00     |
| 95 T | Naphthalene                 | 3.387 | 3.356 | 0.9  | 78    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.126 | 1.087 | 3.5  | 81    | 0.00     |

(#) = Out of Range

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