

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX100819\  
 Data File : VX012904.D  
 Acq On : 08 Oct 2019 21:19  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 09 03:58:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X100819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 09 01:51:23 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   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.510 | 0.539 | -5.7  | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.555 | 0.569 | -2.5  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.573 | 0.585 | -2.1# | 95    | 0.00     |
| 5 T   | Bromomethane                | 0.238 | 0.224 | 5.9   | 96    | 0.00     |
| 6 T   | Chloroethane                | 0.337 | 0.374 | -11.0 | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.773 | 0.795 | -2.8  | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 0.312 | 0.321 | -2.9  | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.500 | 0.514 | -2.8  | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.492 | 0.501 | -1.8  | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.166 | 0.172 | -3.6  | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.505 | 0.521 | -3.2# | 95    | 0.00     |
| 13 T  | Acrolein                    | 0.118 | 0.107 | 9.3   | 85    | 0.00     |
| 14 T  | Allyl chloride              | 0.900 | 0.938 | -4.2  | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 0.314 | 0.337 | -7.3  | 97    | 0.00     |
| 16 T  | Acetone                     | 0.329 | 0.291 | 11.6  | 80    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.441 | 1.409 | 2.2   | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 0.781 | 0.801 | -2.6  | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.745 | 1.878 | -7.6  | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 0.605 | 0.588 | 2.8   | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.542 | 0.558 | -3.0  | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.724 | 1.837 | -6.6  | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.488 | 1.611 | -8.3  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.970 | 1.025 | -5.7  | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 0.457 | 0.474 | -3.7  | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.816 | 0.782 | 4.2   | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.624 | 0.635 | -1.8  | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.278 | 0.312 | -12.2 | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.281 | 0.301 | -7.1  | 95    | 0.00     |
| 30 C  | Chloroform                  | 0.995 | 1.028 | -3.3# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 0.907 | 0.948 | -4.5  | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.843 | 0.898 | -6.5  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.625 | 0.626 | -0.2  | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.287 | 0.285 | 0.7   | 93    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.440 | 0.454 | -3.2  | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.492 | 0.508 | -3.3  | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.428 | 0.446 | -4.2  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.533 | 0.554 | -3.9  | 93    | 0.00     |
| 40 TM | Benzene                     | 1.298 | 1.343 | -3.5  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.270 | 0.281 | -4.1  | 97    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.466 | 0.485 | -4.1  | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.789 | 0.834 | -5.7  | 96    | 0.00     |
| 44 TM | Trichloroethene             | 0.360 | 0.349 | 3.1   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.331 | 0.344 | -3.9# | 95    | 0.00     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Oct 09 01:51:23 2019  
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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              | 0.220 | 0.229 | -4.1   | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.430 | 0.456 | -6.0   | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.384 | 0.407 | -6.0   | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.011 | -22.2# | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 1.119 | 1.104 | 1.3    | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.492 | 0.526 | -6.9   | 97    | 0.00     |
| 52 CM | Toluene                     | 0.831 | 0.852 | -2.5#  | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.476 | 0.505 | -6.1   | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.529 | 0.560 | -5.9   | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.329 | 0.342 | -4.0   | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.532 | 0.567 | -6.6   | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.569 | 0.579 | -1.8   | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.241 | 0.260 | -7.9   | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.383 | 0.407 | -6.3   | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.322 | 0.346 | -7.5   | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.346 | 0.360 | -4.0   | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.435 | 0.437 | -0.5   | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.347 | 0.352 | -1.4   | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 0.993 | 0.996 | -0.3   | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.344 | 0.369 | -7.3   | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.764 | 1.842 | -4.4#  | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.659 | 0.686 | -4.1   | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.643 | 0.669 | -4.0   | 94    | 0.00     |
| 70 T  | Styrene                     | 1.092 | 1.176 | -7.7   | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.248 | 0.267 | -7.7   | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.676 | 3.864 | -5.1   | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.583 | 1.760 | -11.2  | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.223 | 1.259 | -2.9   | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.109 | 1.224 | -10.4  | 113   | 0.00     |
| 77 T  | Bromobenzene                | 0.866 | 0.877 | -1.3   | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 4.045 | 4.333 | -7.1   | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.542 | 2.684 | -5.6   | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.070 | 3.328 | -8.4   | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.392 | 0.403 | -2.8   | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.914 | 3.078 | -5.6   | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.994 | 3.089 | -3.2   | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.109 | 3.229 | -3.9   | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.469 | 3.682 | -6.1   | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.217 | 3.402 | -5.8   | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.609 | 1.628 | -1.2   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.629 | 1.643 | -0.9   | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.704 | 2.938 | -8.7   | 95    | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.521 | 0.560 | -7.5  | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.577 | 1.621 | -2.8  | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.287 | 0.318 | -10.8 | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.988 | 1.045 | -5.8  | 94    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.456 | 0.467 | -2.4  | 94    | 0.00     |
| 95 T | Naphthalene                 | 3.425 | 3.788 | -10.6 | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.021 | 1.064 | -4.2  | 95    | 0.00     |

(#) = Out of Range

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