

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX011719\  
 Data File : VX007101.D  
 Acq On : 17 Jan 2019 20:42  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 18 07:00:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 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  | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.411 | 0.394 | 4.1  | 84    | 0.00     |
| 3 P   | Chloromethane               | 0.478 | 0.442 | 7.5  | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.514 | 0.496 | 3.5# | 90    | 0.00     |
| 5 T   | Bromomethane                | 0.549 | 0.478 | 12.9 | 89    | 0.00     |
| 6 T   | Chloroethane                | 0.359 | 0.327 | 8.9  | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.831 | 0.823 | 1.0  | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 0.331 | 0.328 | 0.9  | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.497 | 0.474 | 4.6  | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 0.671 | 0.689 | -2.7 | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.123 | 0.128 | -4.1 | 105   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.460 | 0.440 | 4.3# | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.056 | 0.055 | 1.8  | 96    | 0.00     |
| 14 T  | Allyl chloride              | 0.788 | 0.781 | 0.9  | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 0.283 | 0.294 | -3.9 | 102   | 0.00     |
| 16 T  | Acetone                     | 0.258 | 0.255 | 1.2  | 99    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.183 | 1.025 | 13.4 | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 0.748 | 0.816 | -9.1 | 111   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.595 | 1.639 | -2.8 | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 0.548 | 0.507 | 7.5  | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.512 | 0.480 | 6.3  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.481 | 1.477 | 0.3  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.249 | 1.226 | 1.8  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.828 | 0.802 | 3.1  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.370 | 0.375 | -1.4 | 98    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.637 | 0.560 | 12.1 | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.565 | 0.532 | 5.8  | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 0.363 | 0.354 | 2.5  | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.240 | 0.243 | -1.3 | 98    | 0.00     |
| 30 C  | Chloroform                  | 0.867 | 0.857 | 1.2# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 0.737 | 0.683 | 7.3  | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.735 | 0.733 | 0.3  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.523 | 0.510 | 2.5  | 87    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.320 | 0.321 | -0.3 | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.435 | 0.409 | 6.0  | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.466 | 0.474 | -1.7 | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.437 | 0.429 | 1.8  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.554 | 0.505 | 8.8  | 90    | 0.00     |
| 40 TM | Benzene                     | 1.326 | 1.280 | 3.5  | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.268 | 0.259 | 3.4  | 98    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.458 | 0.440 | 3.9  | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.735 | 0.768 | -4.5 | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.397 | 0.378 | 4.8  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.333 | 0.328 | 1.5# | 95    | 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              | 0.234 | 0.234 | 0.0   | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.399 | 0.420 | -5.3  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.378 | 0.388 | -2.6  | 99    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.009 | 10.0  | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 1.172 | 1.162 | 0.9   | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.472 | 0.496 | -5.1  | 100   | 0.00     |
| 52 CM | Toluene                     | 0.853 | 0.825 | 3.3#  | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.442 | 0.463 | -4.8  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.489 | 0.502 | -2.7  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.341 | 0.354 | -3.8  | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.498 | 0.524 | -5.2  | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.559 | 0.561 | -0.4  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.256 | 0.267 | -4.3  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.360 | 0.376 | -4.4  | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.331 | 0.370 | -11.8 | 99    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.376 | 0.382 | -1.6  | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.409 | 0.410 | -0.2  | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.433 | 0.404 | 6.7   | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 1.091 | 1.074 | 1.6   | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.367 | 0.393 | -7.1  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.800 | 1.757 | 2.4#  | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.709 | 0.686 | 3.2   | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.692 | 0.680 | 1.7   | 97    | 0.00     |
| 70 T  | Styrene                     | 1.096 | 1.097 | -0.1  | 97    | 0.00     |
| 71 P  | Bromoform                   | 0.281 | 0.309 | -10.0 | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.526 | 3.517 | 0.3   | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 1.420 | 1.485 | -4.6  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.119 | 1.135 | -1.4  | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.013 | 1.052 | -3.8  | 99    | 0.00     |
| 77 T  | Bromobenzene                | 0.971 | 0.958 | 1.3   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 3.870 | 3.920 | -1.3  | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.330 | 2.278 | 2.2   | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.946 | 2.910 | 1.2   | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.285 | 0.309 | -8.4  | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.698 | 2.680 | 0.7   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.939 | 2.984 | -1.5  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.962 | 2.968 | -0.2  | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.510 | 3.537 | -0.8  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.140 | 3.175 | -1.1  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.756 | 1.708 | 2.7   | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.806 | 1.704 | 5.6   | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.677 | 2.705 | -1.0  | 97    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.443 | 0.504 | -13.8 | 100   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.733 | 1.690 | 2.5   | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.221 | 0.238 | -7.7  | 99    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.189 | 1.203 | -1.2  | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.528 | 0.553 | -4.7  | 102   | 0.00     |
| 95 T | Naphthalene                 | 3.602 | 3.733 | -3.6  | 101   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.181 | 1.200 | -1.6  | 101   | 0.00     |

(#) = Out of Range

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