

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070121\  
 Data File : VX023076.D  
 Acq On : 01 Jul 2021 10:25  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 01 14:57:47 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062321W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 23 19:12:26 2021  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.705 | 0.686 | 2.7   | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.775 | 0.707 | 8.8   | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.715 | 0.685 | 4.2#  | 95    | 0.00     |
| 5 T   | Bromomethane                | 0.394 | 0.320 | 18.8  | 88    | 0.00     |
| 6 T   | Chloroethane                | 0.442 | 0.425 | 3.8   | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.038 | 1.034 | 0.4   | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 0.401 | 0.408 | -1.7  | 105   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.650 | 0.688 | -5.8  | 106   | 0.00     |
| 10 T  | Methyl Iodide               | 0.722 | 0.654 | 9.4   | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.189 | 0.176 | 6.9   | 97    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.649 | 0.632 | 2.6#  | 99    | 0.00     |
| 13 T  | Acrolein                    | 0.118 | 0.108 | 8.5   | 98    | 0.00     |
| 14 T  | Allyl chloride              | 1.232 | 1.261 | -2.4  | 104   | 0.00     |
| 15 T  | Acrylonitrile               | 0.432 | 0.443 | -2.5  | 101   | 0.00     |
| 16 T  | Acetone                     | 0.402 | 0.438 | -9.0  | 117   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.635 | 1.403 | 14.2  | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 0.990 | 1.049 | -6.0  | 110   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.326 | 2.456 | -5.6  | 105   | 0.00     |
| 20 T  | Methylene Chloride          | 0.848 | 0.835 | 1.5   | 109   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.720 | 0.695 | 3.5   | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 2.563 | 2.729 | -6.5  | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 2.150 | 2.371 | -10.3 | 105   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.369 | 1.422 | -3.9  | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 0.626 | 0.671 | -7.2  | 107   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.039 | 1.158 | -11.5 | 109   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.799 | 0.846 | -5.9  | 106   | 0.00     |
| 28 T  | Bromochloromethane          | 0.645 | 0.666 | -3.3  | 106   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.402 | 0.421 | -4.7  | 102   | 0.00     |
| 30 C  | Chloroform                  | 1.378 | 1.414 | -2.6# | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 1.281 | 1.285 | -0.3  | 102   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.107 | 1.134 | -2.4  | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.907 | 0.871 | 4.0   | 104   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.318 | 0.319 | -0.3  | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.531 | 0.548 | -3.2  | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.615 | 0.659 | -7.2  | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.445 | 0.493 | -10.8 | 101   | -0.01    |
| 39 T  | Methylcyclohexane           | 0.620 | 0.665 | -7.3  | 102   | 0.00     |
| 40 TM | Benzene                     | 1.531 | 1.617 | -5.6  | 102   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.339 | 0.370 | -9.1  | 108   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.563 | 0.616 | -9.4  | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.989 | 1.090 | -10.2 | 105   | 0.00     |
| 44 TM | Trichloroethene             | 0.363 | 0.370 | -1.9  | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.395 | 0.433 | -9.6# | 104   | 0.00     |
| 46 T  | Dibromomethane              | 0.262 | 0.281 | -7.3  | 105   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.466 | 0.529 | -13.5 | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.458 | 0.513 | -12.0 | 104   | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.010 | 0.0   | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 1.244 | 1.207 | 3.0   | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.616 | 0.688 | -11.7 | 102   | 0.00     |
| 52 CM | Toluene                     | 0.926 | 0.964 | -4.1# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.528 | 0.604 | -14.4 | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.594 | 0.670 | -12.8 | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.371 | 0.398 | -7.3  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.607 | 0.670 | -10.4 | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.675 | 0.729 | -8.0  | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.309 | 0.346 | -12.0 | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.467 | 0.548 | -17.3 | 107   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.311 | 0.345 | -10.9 | 99    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.377 | 0.401 | -6.4  | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.464 | 0.474 | -2.2  | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.351 | 0.361 | -2.8  | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 1.053 | 1.069 | -1.5  | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.340 | 0.370 | -8.8  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.939 | 2.049 | -5.7# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.720 | 0.745 | -3.5  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 0.701 | 0.734 | -4.7  | 101   | 0.00     |
| 70 T  | Styrene                     | 1.163 | 1.226 | -5.4  | 101   | 0.00     |
| 71 P  | Bromoform                   | 0.194 | 0.212 | -9.3  | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.231 | 4.480 | -5.9  | 102   | 0.00     |
| 74 T  | N-amyl acetate              | 2.118 | 2.398 | -13.2 | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.453 | 1.477 | -1.7  | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.321 | 1.409 | -6.7  | 103   | 0.00     |
| 77 T  | Bromobenzene                | 0.880 | 0.899 | -2.2  | 101   | 0.00     |
| 78 T  | n-propylbenzene             | 5.119 | 5.547 | -8.4  | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.091 | 3.248 | -5.1  | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.474 | 3.799 | -9.4  | 104   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.427 | 0.440 | -3.0  | 99    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.572 | 3.852 | -7.8  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.281 | 3.433 | -4.6  | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.496 | 3.888 | -11.2 | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.424 | 4.778 | -8.0  | 102   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.516 | 3.983 | -13.3 | 107   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.697 | 1.735 | -2.2  | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.775 | 1.805 | -1.7  | 104   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.343 | 3.765 | -12.6 | 105   | 0.00     |
| 90 T  | Hexachloroethane            | 0.549 | 0.591 | -7.7  | 100   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.657 | 1.728 | -4.3  | 102   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.285 | 0.336 | -17.9 | 109   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.919 | 0.992 | -7.9  | 104   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.360 | 0.373 | -3.6  | 108   | 0.00     |
| 95 T  | Naphthalene                 | 3.590 | 4.048 | -12.8 | 103   | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.925 | 1.005 | -8.6 | 101   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6