

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX090921\  
 Data File : VX024151.D  
 Acq On : 09 Sep 2021 19:51  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 10 07:31:38 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 17 11:57:51 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    | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.528 | 0.561 | -6.3   | 89    | 0.00     |
| 3 P   | Chloromethane               | 0.579 | 0.545 | 5.9    | 82    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.565 | 0.543 | 3.9#   | 82    | 0.00     |
| 5 T   | Bromomethane                | 0.355 | 0.284 | 20.0   | 72    | 0.00     |
| 6 T   | Chloroethane                | 0.383 | 0.334 | 12.8   | 79    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.892 | 0.871 | 2.4    | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 0.311 | 0.311 | 0.0    | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.502 | 0.508 | -1.2   | 86    | 0.00     |
| 10 T  | Methyl Iodide               | 0.699 | 0.703 | -0.6   | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.141 | 0.156 | -10.6  | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.480 | 0.499 | -4.0#  | 89    | 0.00     |
| 13 T  | Acrolein                    | 0.084 | 0.068 | 19.0   | 70    | 0.00     |
| 14 T  | Allyl chloride              | 0.884 | 0.861 | 2.6    | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 0.314 | 0.315 | -0.3   | 86    | 0.00     |
| 16 T  | Acetone                     | 0.312 | 0.288 | 7.7    | 83    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.144 | 1.117 | 2.4    | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 0.779 | 1.008 | -29.4# | 114   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.670 | 1.850 | -10.8  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.596 | 0.576 | 3.4    | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.513 | 0.551 | -7.4   | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.761 | 1.766 | -0.3   | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.425 | 1.489 | -4.5   | 87    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.980 | 0.997 | -1.7   | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 0.473 | 0.459 | 3.0    | 82    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.805 | 0.805 | 0.0    | 85    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.610 | 0.638 | -4.6   | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 0.446 | 0.392 | 12.1   | 74    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.306 | 0.297 | 2.9    | 82    | 0.00     |
| 30 C  | Chloroform                  | 1.038 | 1.062 | -2.3#  | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 0.897 | 0.871 | 2.9    | 83    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.889 | 0.969 | -9.0   | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.698 | 0.627 | 10.2   | 80    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.331 | 0.320 | 3.3    | 83    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.463 | 0.497 | -7.3   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.569 | 0.551 | 3.2    | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.483 | 0.533 | -10.4  | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.564 | 0.621 | -10.1  | 89    | 0.00     |
| 40 TM | Benzene                     | 1.369 | 1.444 | -5.5   | 88    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.309 | 0.301 | 2.6    | 82    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.538 | 0.574 | -6.7   | 88    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.890 | 0.896 | -0.7   | 84    | 0.00     |
| 44 TM | Trichloroethene             | 0.378 | 0.408 | -7.9   | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.364 | 0.378 | -3.8#  | 86    | 0.00     |
| 46 T  | Dibromomethane              | 0.253 | 0.266 | -5.1   | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.458 | 0.503 | -9.8   | 88    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.434 | 0.546 | -25.8# | 102   | 0.00     |

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 ALS Vial : 16 Sample Multiplier: 1

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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                 | 0.009 | 0.010 | -11.1  | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 1.260 | 1.128 | 10.5   | 77    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.576 | 0.593 | -3.0   | 82    | 0.00     |
| 52 CM | Toluene                     | 0.887 | 0.961 | -8.3#  | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.521 | 0.579 | -11.1  | 88    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.555 | 0.612 | -10.3  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.365 | 0.404 | -10.7  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.569 | 0.498 | 12.5   | 69    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.606 | 0.656 | -8.3   | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.294 | 0.294 | 0.0    | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.442 | 0.460 | -4.1   | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.353 | 0.412 | -16.7  | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.386 | 0.432 | -11.9  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.464 | 0.462 | 0.4    | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.399 | 0.422 | -5.8   | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 1.043 | 1.121 | -7.5   | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.371 | 0.420 | -13.2  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.822 | 2.009 | -10.3# | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.694 | 0.770 | -11.0  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.682 | 0.749 | -9.8   | 90    | 0.00     |
| 70 T  | Styrene                     | 1.111 | 1.112 | -0.1   | 80    | 0.00     |
| 71 P  | Bromoform                   | 0.263 | 0.303 | -15.2  | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 92    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.814 | 4.136 | -8.4   | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 1.724 | 1.664 | 3.5    | 80    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.250 | 1.268 | -1.4   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.166 | 1.195 | -2.5   | 88    | 0.00     |
| 77 T  | Bromobenzene                | 0.939 | 1.046 | -11.4  | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 4.362 | 4.552 | -4.4   | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.636 | 2.779 | -5.4   | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.134 | 3.493 | -11.5  | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.397 | 0.400 | -0.8   | 83    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.993 | 3.222 | -7.7   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.044 | 3.339 | -9.7   | 90    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.125 | 3.544 | -13.4  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.854 | 3.931 | -2.0   | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.172 | 3.614 | -13.9  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.699 | 1.798 | -5.8   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.695 | 1.750 | -3.2   | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.832 | 3.038 | -7.3   | 86    | 0.00     |
| 90 T  | Hexachloroethane            | 0.488 | 0.550 | -12.7  | 86    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.646 | 1.684 | -2.3   | 88    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.257 | 0.282 | -9.7   | 89    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.991 | 1.123 | -13.3  | 95    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.442 | 0.481 | -8.8   | 95    | 0.00     |
| 95 T  | Naphthalene                 | 3.231 | 3.838 | -18.8  | 94    | 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 | 0.987 | 1.124 | -13.9 | 94    | 0.00     |

(#) = Out of Range

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