

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX013123\  
 Data File : VX033976.D  
 Acq On : 31 Jan 2023 17:28  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 01 02:16:32 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011123W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 11 14:48:42 2023  
 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     | 0.395 | 0.334 | 15.4  | 75    | 0.00     |
| 3 P   | Chloromethane               | 0.443 | 0.401 | 9.5   | 73    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.424 | 0.410 | 3.3#  | 77    | 0.00     |
| 5 T   | Bromomethane                | 0.243 | 0.189 | 22.2  | 74    | -0.01    |
| 6 T   | Chloroethane                | 0.262 | 0.255 | 2.7   | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.687 | 0.614 | 10.6  | 79    | 0.00     |
| 8 T   | Diethyl Ether               | 0.225 | 0.255 | -13.3 | 112   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.432 | 0.422 | 2.3   | 124   | 0.00     |
| 10 T  | Methyl Iodide               | 0.555 | 0.570 | -2.7  | 119   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.091 | 0.082 | 9.9   | 83    | -0.07    |
| 12 CM | 1,1-Dichloroethene          | 0.407 | 0.396 | 2.7#  | 121   | 0.00     |
| 13 T  | Acrolein                    | 0.084 | 0.081 | 3.6   | 108   | 0.00     |
| 14 T  | Allyl chloride              | 0.767 | 0.690 | 10.0  | 100   | 0.00     |
| 15 T  | Acrylonitrile               | 0.241 | 0.233 | 3.3   | 87    | -0.01    |
| 16 T  | Acetone                     | 0.232 | 0.209 | 9.9   | 113   | -0.02    |
| 17 T  | Carbon Disulfide            | 1.066 | 0.770 | 27.8# | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 0.735 | 0.726 | 1.2   | 90    | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 1.413 | 1.357 | 4.0   | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 0.512 | 0.445 | 13.1  | 84    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.476 | 0.422 | 11.3  | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.544 | 1.452 | 6.0   | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.162 | 1.095 | 5.8   | 82    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.845 | 0.783 | 7.3   | 84    | 0.00     |
| 25 T  | 2-Butanone                  | 0.344 | 0.316 | 8.1   | 84    | -0.02    |
| 26 T  | 2,2-Dichloropropane         | 0.605 | 0.560 | 7.4   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.547 | 0.512 | 6.4   | 84    | 0.00     |
| 28 T  | Bromochloromethane          | 0.385 | 0.351 | 8.8   | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.217 | 0.204 | 6.0   | 84    | -0.02    |
| 30 C  | Chloroform                  | 0.865 | 0.812 | 6.1#  | 85    | 0.00     |
| 31 T  | Cyclohexane                 | 0.775 | 0.656 | 15.4  | 75    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.739 | 0.689 | 6.8   | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.526 | 0.462 | 12.2  | 83    | -0.01    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.310 | 0.311 | -0.3  | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.453 | 0.421 | 7.1   | 81    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.496 | 0.442 | 10.9  | 84    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.469 | 0.441 | 6.0   | 79    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.560 | 0.511 | 8.8   | 79    | 0.00     |
| 40 TM | Benzene                     | 1.321 | 1.289 | 2.4   | 84    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.250 | 0.257 | -2.8  | 85    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.468 | 0.440 | 6.0   | 81    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.715 | 0.711 | 0.6   | 85    | 0.00     |
| 44 TM | Trichloroethene             | 0.369 | 0.382 | -3.5  | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.331 | 0.331 | 0.0   | 86    | 0.00     |
| 46 T  | Dibromomethane              | 0.231 | 0.229 | 0.9   | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.445 | 0.449 | -0.9  | 84    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.360 | 0.362 | -0.6  | 82    | 0.00     |

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 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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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 : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.007 | 12.5  | 75    | -0.07    |
| 50 S  | Toluene-d8                  | 1.131 | 1.107 | 2.1   | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.439 | 0.453 | -3.2  | 85    | 0.00     |
| 52 CM | Toluene                     | 0.853 | 0.860 | -0.8# | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.445 | 0.463 | -4.0  | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.499 | 0.528 | -5.8  | 86    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.338 | 0.355 | -5.0  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.475 | 0.521 | -9.7  | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.547 | 0.573 | -4.8  | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.234 | 0.238 | -1.7  | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.306 | 0.332 | -8.5  | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.350 | 0.387 | -10.6 | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.337 | 0.369 | -9.5  | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.420 | 0.435 | -3.6  | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.381 | 0.389 | -2.1  | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 1.035 | 1.056 | -2.0  | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.381 | 0.405 | -6.3  | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.777 | 1.798 | -1.2# | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.695 | 0.717 | -3.2  | 86    | 0.00     |
| 69 T  | o-Xylene                    | 0.689 | 0.712 | -3.3  | 86    | 0.00     |
| 70 T  | Styrene                     | 1.121 | 1.186 | -5.8  | 86    | 0.00     |
| 71 P  | Bromoform                   | 0.319 | 0.340 | -6.6  | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.645 | 3.369 | 7.6   | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 1.313 | 1.277 | 2.7   | 85    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.097 | 1.025 | 6.6   | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.919 | 0.940 | -2.3  | 101   | 0.00     |
| 77 T  | Bromobenzene                | 0.986 | 0.927 | 6.0   | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 4.080 | 3.810 | 6.6   | 86    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.483 | 2.246 | 9.5   | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.009 | 2.833 | 5.8   | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.296 | 0.289 | 2.4   | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.818 | 2.577 | 8.6   | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.987 | 2.943 | 1.5   | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.846 | 2.836 | 0.4   | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.573 | 3.581 | -0.2  | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.059 | 3.099 | -1.3  | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.689 | 1.710 | -1.2  | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.721 | 1.722 | -0.1  | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.503 | 2.535 | -1.3  | 86    | 0.00     |
| 90 T  | Hexachloroethane            | 0.503 | 0.482 | 4.2   | 81    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.630 | 1.682 | -3.2  | 91    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.204 | 0.203 | 0.5   | 86    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.098 | 1.210 | -10.2 | 92    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.538 | 0.571 | -6.1  | 93    | 0.00     |
| 95 T  | Naphthalene                 | 3.159 | 3.534 | -11.9 | 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 | 1.099 | 1.206 | -9.7 | 94    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5