

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091423\  
 Data File : VX037720.D  
 Acq On : 14 Sep 2023 11:10  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 14 16:11:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 10:10:04 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   | 139   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.548 | 0.512 | 6.6   | 129   | 0.00     |
| 3 P   | Chloromethane               | 0.625 | 0.555 | 11.2  | 127   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.703 | 0.601 | 14.5# | 122   | 0.00     |
| 5 T   | Bromomethane                | 0.588 | 0.520 | 11.6  | 121   | 0.00     |
| 6 T   | Chloroethane                | 0.483 | 0.416 | 13.9  | 129   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.162 | 1.030 | 11.4  | 119   | 0.00     |
| 8 T   | Diethyl Ether               | 0.461 | 0.390 | 15.4  | 115   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.521 | 0.527 | -1.2  | 143   | 0.00     |
| 10 T  | Methyl Iodide               | 0.615 | 0.655 | -6.5  | 144   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.184 | 0.147 | 20.1  | 119   | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.514 | 0.484 | 5.8#  | 135   | 0.00     |
| 13 T  | Acrolein                    | 0.132 | 0.130 | 1.5   | 135   | 0.00     |
| 14 T  | Allyl chloride              | 0.901 | 0.835 | 7.3   | 130   | 0.00     |
| 15 T  | Acrylonitrile               | 0.371 | 0.323 | 12.9  | 120   | 0.00     |
| 16 T  | Acetone                     | 0.327 | 0.322 | 1.5   | 142   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.308 | 1.139 | 12.9  | 127   | 0.00     |
| 18 T  | Methyl Acetate              | 1.381 | 1.201 | 13.0  | 121   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.031 | 1.894 | 6.7   | 129   | 0.00     |
| 20 T  | Methylene Chloride          | 0.738 | 0.610 | 17.3  | 132   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.592 | 0.552 | 6.8   | 131   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.963 | 1.811 | 7.7   | 127   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.432 | 1.345 | 6.1   | 124   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.144 | 1.042 | 8.9   | 128   | 0.00     |
| 25 T  | 2-Butanone                  | 0.533 | 0.459 | 13.9  | 120   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.796 | 0.886 | -11.3 | 150   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.722 | 0.684 | 5.3   | 133   | 0.00     |
| 28 T  | Bromochloromethane          | 0.578 | 0.529 | 8.5   | 127   | -0.01    |
| 29 T  | Tetrahydrofuran             | 0.340 | 0.285 | 16.2  | 116   | -0.01    |
| 30 C  | Chloroform                  | 1.236 | 1.145 | 7.4#  | 128   | 0.00     |
| 31 T  | Cyclohexane                 | 0.932 | 0.871 | 6.5   | 128   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.028 | 0.989 | 3.8   | 130   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.809 | 0.689 | 14.8  | 120   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 127   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.354 | 0.360 | -1.7  | 130   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.482 | 0.486 | -0.8  | 129   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.552 | 0.536 | 2.9   | 117   | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.493 | 0.522 | -5.9  | 133   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.570 | 0.625 | -9.6  | 137   | 0.00     |
| 40 TM | Benzene                     | 1.462 | 1.488 | -1.8  | 128   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.291 | 0.276 | 5.2   | 114   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.571 | 0.546 | 4.4   | 121   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.880 | 0.884 | -0.5  | 122   | 0.00     |
| 44 TM | Trichloroethene             | 0.365 | 0.393 | -7.7  | 139   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.386 | 0.397 | -2.8# | 128   | 0.00     |
| 46 T  | Dibromomethane              | 0.281 | 0.286 | -1.8  | 129   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.507 | 0.538 | -6.1  | 129   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.425 | 0.416 | 2.1   | 119   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 14 16:11:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091123W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 12 10:10:04 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.011 | 0.011 | 0.0   | 125   | 0.00     |
| 50 S  | Toluene-d8                  | 1.337 | 1.332 | 0.4   | 126   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.578 | 0.560 | 3.1   | 115   | 0.00     |
| 52 CM | Toluene                     | 0.940 | 0.976 | -3.8# | 130   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.514 | 0.585 | -13.8 | 133   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.564 | 0.635 | -12.6 | 134   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.396 | 0.415 | -4.8  | 128   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.605 | 0.643 | -6.3  | 127   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.664 | 0.673 | -1.4  | 127   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.294 | 0.322 | -9.5  | 140   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.446 | 0.447 | -0.2  | 116   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.389 | 0.432 | -11.1 | 132   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.425 | 0.445 | -4.7  | 128   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.482 | 0.507 | -5.2  | 128   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 124   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.324 | 0.350 | -8.0  | 140   | 0.00     |
| 65 PM | Chlorobenzene               | 1.066 | 1.124 | -5.4  | 131   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.367 | 0.422 | -15.0 | 137   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.897 | 2.015 | -6.2# | 129   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.723 | 0.795 | -10.0 | 132   | 0.00     |
| 69 T  | o-Xylene                    | 0.721 | 0.784 | -8.7  | 132   | 0.00     |
| 70 T  | Styrene                     | 1.176 | 1.309 | -11.3 | 129   | 0.00     |
| 71 P  | Bromoform                   | 0.287 | 0.348 | -21.3 | 137   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 128   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.743 | 3.754 | -0.3  | 132   | 0.00     |
| 74 T  | N-amyl acetate              | 1.632 | 1.605 | 1.7   | 122   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.401 | 1.330 | 5.1   | 123   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.099 | 1.051 | 4.4   | 124   | 0.00     |
| 77 T  | Bromobenzene                | 0.887 | 0.909 | -2.5  | 134   | 0.00     |
| 78 T  | n-propylbenzene             | 4.307 | 4.461 | -3.6  | 132   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.651 | 2.623 | 1.1   | 129   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.146 | 3.265 | -3.8  | 132   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.362 | 0.396 | -9.4  | 133   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.028 | 3.064 | -1.2  | 132   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.161 | 3.260 | -3.1  | 131   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.172 | 3.260 | -2.8  | 130   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.902 | 4.122 | -5.6  | 133   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.197 | 3.465 | -8.4  | 135   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.703 | 1.788 | -5.0  | 137   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.751 | 1.794 | -2.5  | 136   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.896 | 3.168 | -9.4  | 135   | 0.00     |
| 90 T  | Hexachloroethane            | 0.540 | 0.598 | -10.7 | 135   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.704 | 1.801 | -5.7  | 135   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.288 | 0.280 | 2.8   | 120   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.015 | 1.146 | -12.9 | 147   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.424 | 0.525 | -23.8 | 157#  | 0.00     |
| 95 T  | Naphthalene                 | 3.676 | 3.815 | -3.8  | 130   | 0.00     |

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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) |
|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.041 | 1.148 | -10.3 | 146   | 0.00     |

(#) = Out of Range

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