

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX020722\  
 Data File : VX026774.D  
 Acq On : 07 Feb 2022 10:40  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 07 23:26:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011122W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 11 14:45:13 2022  
 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    | 83    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.590 | 0.495 | 16.1   | 69    | 0.00     |
| 3 P   | Chloromethane               | 0.541 | 0.465 | 14.0   | 73    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.568 | 0.512 | 9.9#   | 73    | 0.00     |
| 5 T   | Bromomethane                | 0.262 | 0.242 | 7.6    | 78    | 0.00     |
| 6 T   | Chloroethane                | 0.287 | 0.244 | 15.0   | 70    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.897 | 0.822 | 8.4    | 73    | 0.00     |
| 8 T   | Diethyl Ether               | 0.317 | 0.310 | 2.2    | 78    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.547 | 0.571 | -4.4   | 84    | 0.00     |
| 10 T  | Methyl Iodide               | 0.535 | 0.709 | -32.5# | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.097 | 0.106 | -9.3   | 85    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 0.522 | 0.518 | 0.8#   | 80    | 0.00     |
| 13 T  | Acrolein                    | 0.103 | 0.107 | -3.9   | 90    | 0.00     |
| 14 T  | Allyl chloride              | 0.960 | 0.987 | -2.8   | 81    | 0.00     |
| 15 T  | Acrylonitrile               | 0.299 | 0.335 | -12.0  | 91    | 0.00     |
| 16 T  | Acetone                     | 0.356 | 0.375 | -5.3   | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.525 | 1.227 | 19.5   | 67    | 0.00     |
| 18 T  | Methyl Acetate              | 0.708 | 0.779 | -10.0  | 91    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.895 | 1.962 | -3.5   | 84    | 0.00     |
| 20 T  | Methylene Chloride          | 0.589 | 0.611 | -3.7   | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.565 | 0.553 | 2.1    | 79    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.951 | 2.002 | -2.6   | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.606 | 1.675 | -4.3   | 81    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.053 | 1.084 | -2.9   | 82    | 0.00     |
| 25 T  | 2-Butanone                  | 0.463 | 0.525 | -13.4  | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.781 | 0.882 | -12.9  | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.645 | 0.689 | -6.8   | 84    | 0.00     |
| 28 T  | Bromochloromethane          | 0.433 | 0.398 | 8.1    | 73    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.275 | 0.297 | -8.0   | 88    | 0.00     |
| 30 C  | Chloroform                  | 1.095 | 1.141 | -4.2#  | 84    | 0.00     |
| 31 T  | Cyclohexane                 | 1.030 | 0.941 | 8.6    | 75    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.963 | 1.009 | -4.8   | 81    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.698 | 0.651 | 6.7    | 75    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.323 | 0.337 | -4.3   | 80    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.510 | 0.522 | -2.4   | 80    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.516 | 0.565 | -9.5   | 85    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.524 | 0.570 | -8.8   | 82    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.615 | 0.642 | -4.4   | 81    | 0.00     |
| 40 TM | Benzene                     | 1.409 | 1.504 | -6.7   | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.292 | 0.330 | -13.0  | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.551 | 0.565 | -2.5   | 80    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.833 | 0.933 | -12.0  | 85    | 0.00     |
| 44 TM | Trichloroethene             | 0.400 | 0.471 | -17.7  | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.352 | 0.398 | -13.1# | 87    | 0.00     |
| 46 T  | Dibromomethane              | 0.248 | 0.278 | -12.1  | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.501 | 0.579 | -15.6  | 87    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.413 | 0.458 | -10.9  | 85    | 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: Feb 07 23:26:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011122W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 11 14:45:13 2022  
 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                 | 0.007 | 0.007 | 0.0    | 76    | 0.00     |
| 50 S  | Toluene-d8                  | 1.164 | 1.252 | -7.6   | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.494 | 0.558 | -13.0  | 87    | 0.00     |
| 52 CM | Toluene                     | 0.864 | 0.995 | -15.2# | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.470 | 0.611 | -30.0# | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.538 | 0.659 | -22.5  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.337 | 0.409 | -21.4  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.517 | 0.635 | -22.8  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.585 | 0.688 | -17.6  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.271 | 0.281 | -3.7   | 79    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.378 | 0.440 | -16.4  | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.351 | 0.458 | -30.5# | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.351 | 0.426 | -21.4  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.413 | 0.469 | -13.6  | 87    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.472 | 0.581 | -23.1  | 103   | 0.00     |
| 65 PM | Chlorobenzene               | 1.053 | 1.189 | -12.9  | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.391 | 0.461 | -17.9  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.913 | 2.143 | -12.0# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.716 | 0.811 | -13.3  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.691 | 0.799 | -15.6  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.127 | 1.326 | -17.7  | 94    | 0.00     |
| 71 P  | Bromoform                   | 0.267 | 0.341 | -27.7# | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.098 | 4.598 | -12.2  | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.582 | 1.702 | -7.6   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.100 | 1.121 | -1.9   | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.101 | 1.230 | -11.7  | 93    | 0.00     |
| 77 T  | Bromobenzene                | 0.939 | 1.057 | -12.6  | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 4.674 | 5.234 | -12.0  | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.834 | 3.070 | -8.3   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.379 | 3.766 | -11.5  | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.312 | 0.403 | -29.2# | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.257 | 3.510 | -7.8   | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.154 | 3.489 | -10.6  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.380 | 3.769 | -11.5  | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.080 | 4.749 | -16.4  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.423 | 4.010 | -17.1  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.760 | 1.997 | -13.5  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.781 | 2.004 | -12.5  | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.937 | 3.458 | -17.7  | 96    | 0.00     |
| 90 T  | Hexachloroethane            | 0.509 | 0.658 | -29.3# | 102   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.663 | 1.895 | -14.0  | 96    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.266 | 0.289 | -8.6   | 87    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.066 | 1.283 | -20.4  | 100   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.450 | 0.561 | -24.7  | 106   | 0.00     |
| 95 T  | Naphthalene                 | 3.557 | 4.283 | -20.4  | 98    | 0.00     |

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Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Feb 07 23:26:05 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011122W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 11 14:45:13 2022  
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) |
|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.049 | 1.281 | -22.1 | 102   | 0.00     |

(#) = Out of Range

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