

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112023\  
 Data File : VX038946.D  
 Acq On : 20 Nov 2023 10:03  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 21 00:14:23 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 16 22:59:22 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    | 71    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.583 | 0.599 | -2.7   | 69    | 0.00     |
| 3 P   | Chloromethane               | 0.761 | 0.634 | 16.7   | 62    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.734 | 0.669 | 8.9#   | 66    | 0.00     |
| 5 T   | Bromomethane                | 0.303 | 0.454 | -49.8# | 93    | 0.00     |
| 6 T   | Chloroethane                | 0.419 | 0.412 | 1.7    | 70    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.931 | 0.953 | -2.4   | 74    | 0.00     |
| 8 T   | Diethyl Ether               | 0.405 | 0.384 | 5.2    | 71    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.617 | 0.586 | 5.0    | 69    | 0.00     |
| 10 T  | Methyl Iodide               | 0.751 | 0.658 | 12.4   | 61    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.224 | 0.195 | 12.9   | 64    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.623 | 0.563 | 9.6#   | 65    | 0.00     |
| 13 T  | Acrolein                    | 0.119 | 0.122 | -2.5   | 80    | 0.00     |
| 14 T  | Allyl chloride              | 1.248 | 1.099 | 11.9   | 64    | 0.00     |
| 15 T  | Acrylonitrile               | 0.473 | 0.412 | 12.9   | 62    | 0.00     |
| 16 T  | Acetone                     | 0.429 | 0.498 | -16.1  | 85    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.930 | 1.527 | 20.9   | 60    | 0.00     |
| 18 T  | Methyl Acetate              | 2.037 | 1.814 | 10.9   | 64    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.192 | 2.113 | 3.6    | 69    | 0.00     |
| 20 T  | Methylene Chloride          | 0.773 | 0.675 | 12.7   | 68    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.688 | 0.616 | 10.5   | 66    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.289 | 2.127 | 7.1    | 66    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.649 | 1.538 | 6.7    | 65    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.280 | 1.179 | 7.9    | 67    | 0.00     |
| 25 T  | 2-Butanone                  | 0.696 | 0.652 | 6.3    | 68    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.110 | 1.066 | 4.0    | 70    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.802 | 0.729 | 9.1    | 67    | 0.00     |
| 28 T  | Bromochloromethane          | 0.615 | 0.573 | 6.8    | 68    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.442 | 0.394 | 10.9   | 63    | 0.00     |
| 30 C  | Chloroform                  | 1.250 | 1.192 | 4.6#   | 70    | 0.00     |
| 31 T  | Cyclohexane                 | 1.150 | 1.026 | 10.8   | 65    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.083 | 1.053 | 2.8    | 72    | -0.01    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.806 | 0.725 | 10.0   | 64    | -0.01    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 68    | -0.01    |
| 35 S  | Dibromofluoromethane        | 0.361 | 0.331 | 8.3    | 63    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.518 | 0.490 | 5.4    | 66    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.674 | 0.623 | 7.6    | 63    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.478 | 0.501 | -4.8   | 73    | -0.01    |
| 39 T  | Methylcyclohexane           | 0.675 | 0.622 | 7.9    | 65    | 0.00     |
| 40 TM | Benzene                     | 1.531 | 1.450 | 5.3    | 66    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.350 | 0.328 | 6.3    | 62    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.507 | 0.514 | -1.4   | 70    | -0.01    |
| 43 T  | Isopropyl Acetate           | 1.078 | 1.032 | 4.3    | 66    | 0.00     |
| 44 TM | Trichloroethene             | 0.373 | 0.366 | 1.9    | 68    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.412 | 0.390 | 5.3#   | 64    | 0.00     |
| 46 T  | Dibromomethane              | 0.275 | 0.272 | 1.1    | 68    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.545 | 0.536 | 1.7    | 69    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.523 | 0.475 | 9.2    | 65    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX1112023\  
 Data File : VX038946.D  
 Acq On : 20 Nov 2023 10:03  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 21 00:14:23 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 16 22:59:22 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                 | 0.010 | 0.009 | 10.0 | 63    | 0.00     |
| 50 S  | Toluene-d8                  | 1.382 | 1.244 | 10.0 | 62    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.689 | 0.651 | 5.5  | 65    | 0.00     |
| 52 CM | Toluene                     | 0.950 | 0.893 | 6.0# | 65    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.648 | 0.625 | 3.5  | 67    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.669 | 0.644 | 3.7  | 66    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.396 | 0.379 | 4.3  | 66    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.671 | 0.638 | 4.9  | 64    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.656 | 0.628 | 4.3  | 66    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.312 | 0.257 | 17.6 | 67    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.552 | 0.536 | 2.9  | 66    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.403 | 0.407 | -1.0 | 70    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.416 | 0.398 | 4.3  | 66    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.553 | 0.497 | 10.1 | 62    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 67    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.311 | 0.309 | 0.6  | 70    | 0.00     |
| 65 PM | Chlorobenzene               | 1.077 | 1.045 | 3.0  | 68    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.387 | 0.381 | 1.6  | 69    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.979 | 1.943 | 1.8# | 68    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.749 | 0.734 | 2.0  | 68    | 0.00     |
| 69 T  | o-Xylene                    | 0.741 | 0.714 | 3.6  | 67    | 0.00     |
| 70 T  | Styrene                     | 1.251 | 1.208 | 3.4  | 67    | 0.00     |
| 71 P  | Bromoform                   | 0.323 | 0.332 | -2.8 | 70    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 69    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.896 | 3.676 | 5.6  | 69    | 0.00     |
| 74 T  | N-amyl acetate              | 2.059 | 1.905 | 7.5  | 65    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.521 | 1.372 | 9.8  | 65    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.247 | 1.194 | 4.3  | 68    | 0.00     |
| 77 T  | Bromobenzene                | 0.875 | 0.821 | 6.2  | 68    | 0.00     |
| 78 T  | n-propylbenzene             | 4.795 | 4.519 | 5.8  | 67    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.846 | 2.617 | 8.0  | 68    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.276 | 3.148 | 3.9  | 69    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.562 | 0.493 | 12.3 | 62    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.281 | 3.119 | 4.9  | 69    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.226 | 3.094 | 4.1  | 70    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.315 | 3.161 | 4.6  | 69    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.220 | 4.025 | 4.6  | 69    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.387 | 3.254 | 3.9  | 69    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.714 | 1.627 | 5.1  | 69    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.754 | 1.654 | 5.7  | 69    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.418 | 3.238 | 5.3  | 68    | 0.00     |
| 90 T  | Hexachloroethane            | 0.676 | 0.655 | 3.1  | 69    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.626 | 1.568 | 3.6  | 70    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.373 | 0.342 | 8.3  | 65    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.089 | 1.048 | 3.8  | 69    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.386 | 0.387 | -0.3 | 71    | 0.00     |
| 95 T  | Naphthalene                 | 4.058 | 3.692 | 9.0  | 66    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112023\  
Data File : VX038946.D  
Acq On : 20 Nov 2023 10:03  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Nov 21 00:14:23 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 16 22:59:22 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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.033 | 1.001 | 3.1  | 69    | 0.00     |

(#) = Out of Range

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