

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX091120\  
 Data File : VX018372.D  
 Acq On : 11 Sep 2020 19:38  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 12 07:20:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 66    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.609 | 0.586 | 3.8    | 60    | 0.00     |
| 3 P   | Chloromethane               | 0.642 | 0.546 | 15.0   | 57    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.639 | 0.580 | 9.2#   | 59    | 0.00     |
| 5 T   | Bromomethane                | 0.308 | 0.383 | -24.4  | 80    | 0.00     |
| 6 T   | Chloroethane                | 0.343 | 0.353 | -2.9   | 66    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.871 | 0.997 | -14.5  | 74    | 0.00     |
| 8 T   | Diethyl Ether               | 0.295 | 0.315 | -6.8   | 70    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.471 | 0.506 | -7.4   | 71    | 0.00     |
| 10 T  | Methyl Iodide               | 0.438 | 0.526 | -20.1  | 73    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.135 | 0.136 | -0.7   | 67    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.489 | 0.497 | -1.6#  | 68    | 0.00     |
| 13 T  | Acrolein                    | 0.056 | 0.093 | -66.1# | 112   | 0.00     |
| 14 T  | Allyl chloride              | 0.878 | 0.904 | -3.0   | 66    | 0.00     |
| 15 T  | Acrylonitrile               | 0.306 | 0.318 | -3.9   | 69    | 0.00     |
| 16 T  | Acetone                     | 0.270 | 0.278 | -3.0   | 71    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.477 | 1.282 | 13.2   | 60    | 0.00     |
| 18 T  | Methyl Acetate              | 0.653 | 0.804 | -23.1  | 81    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.676 | 1.859 | -10.9  | 72    | 0.00     |
| 20 T  | Methylene Chloride          | 0.613 | 0.579 | 5.5    | 67    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.541 | 0.545 | -0.7   | 68    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.733 | 1.850 | -6.8   | 69    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.542 | 1.624 | -5.3   | 67    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.986 | 1.044 | -5.9   | 69    | 0.00     |
| 25 T  | 2-Butanone                  | 0.445 | 0.447 | -0.4   | 67    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.803 | 0.874 | -8.8   | 73    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.624 | 0.625 | -0.2   | 68    | 0.00     |
| 28 T  | Bromochloromethane          | 0.476 | 0.481 | -1.1   | 68    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.283 | 0.282 | 0.4    | 64    | 0.00     |
| 30 C  | Chloroform                  | 1.021 | 1.112 | -8.9#  | 72    | 0.00     |
| 31 T  | Cyclohexane                 | 0.831 | 0.801 | 3.6    | 63    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.937 | 1.035 | -10.5  | 73    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.694 | 0.725 | -4.5   | 71    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 65    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.341 | 0.345 | -1.2   | 68    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.461 | 0.478 | -3.7   | 67    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.536 | 0.541 | -0.9   | 67    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.520 | 0.594 | -14.2  | 73    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.504 | 0.508 | -0.8   | 64    | 0.00     |
| 40 TM | Benzene                     | 1.355 | 1.374 | -1.4   | 66    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.294 | 0.291 | 1.0    | 65    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.519 | 0.587 | -13.1  | 74    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.865 | 0.879 | -1.6   | 65    | 0.00     |
| 44 TM | Trichloroethene             | 0.383 | 0.391 | -2.1   | 67    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.365 | 0.379 | -3.8#  | 67    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX091120\  
 Data File : VX018372.D  
 Acq On : 11 Sep 2020 19:38  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 12 07:20:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.257 | 0.269 | -4.7  | 69    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.513 | 0.568 | -10.7 | 71    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.431 | 0.445 | -3.2  | 67    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.007 | 12.5  | 55    | 0.00     |
| 50 S  | Toluene-d8                  | 1.268 | 1.214 | 4.3   | 63    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.534 | 0.565 | -5.8  | 66    | 0.00     |
| 52 CM | Toluene                     | 0.859 | 0.900 | -4.8# | 68    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.568 | 0.616 | -8.5  | 69    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.602 | 0.624 | -3.7  | 67    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.366 | 0.384 | -4.9  | 68    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.545 | 0.579 | -6.2  | 67    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.604 | 0.631 | -4.5  | 68    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.245 | 0.285 | -16.3 | 75    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.406 | 0.433 | -6.7  | 66    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.430 | 0.477 | -10.9 | 71    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.398 | 0.421 | -5.8  | 69    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.499 | 0.498 | 0.2   | 66    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 66    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.367 | 0.344 | 6.3   | 61    | 0.00     |
| 65 PM | Chlorobenzene               | 0.999 | 1.019 | -2.0  | 67    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.394 | 0.426 | -8.1  | 70    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.698 | 1.796 | -5.8# | 67    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.634 | 0.687 | -8.4  | 67    | 0.00     |
| 69 T  | o-Xylene                    | 0.614 | 0.654 | -6.5  | 68    | 0.00     |
| 70 T  | Styrene                     | 1.046 | 1.150 | -9.9  | 68    | 0.00     |
| 71 P  | Bromoform                   | 0.336 | 0.379 | -12.8 | 72    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 72    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.298 | 3.349 | -1.5  | 70    | 0.00     |
| 74 T  | N-amyl acetate              | 1.565 | 1.549 | 1.0   | 66    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.163 | 1.131 | 2.8   | 72    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.112 | 1.043 | 6.2   | 68    | 0.00     |
| 77 T  | Bromobenzene                | 0.912 | 0.895 | 1.9   | 71    | 0.00     |
| 78 T  | n-propylbenzene             | 3.745 | 3.786 | -1.1  | 70    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.314 | 2.289 | 1.1   | 69    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.710 | 2.837 | -4.7  | 70    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.412 | 0.381 | 7.5   | 65    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.750 | 2.777 | -1.0  | 71    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.675 | 2.810 | -5.0  | 72    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.771 | 2.918 | -5.3  | 71    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.042 | 3.195 | -5.0  | 71    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.794 | 3.009 | -7.7  | 71    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.601 | 1.598 | 0.2   | 73    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.603 | 1.604 | -0.1  | 73    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.550 | 2.626 | -3.0  | 71    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX091120\  
Data File : VX018372.D  
Acq On : 11 Sep 2020 19:38  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Sep 12 07:20:28 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 03:03:56 2020  
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) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.550 | 0.608 | -10.5 | 76    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.507 | 1.518 | -0.7  | 71    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.291 | 0.280 | 3.8   | 71    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.005 | 0.979 | 2.6   | 69    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.396 | 0.426 | -7.6  | 78    | 0.00     |
| 95 T | Naphthalene                 | 3.306 | 3.308 | -0.1  | 69    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.993 | 0.987 | 0.6   | 72    | 0.00     |

(#) = Out of Range

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