

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121919\  
 Data File : VX014136.D  
 Acq On : 19 Dec 2019 21:17  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 20 03:49:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.447 | 0.403 | 9.8   | 86    | 0.00     |
| 3 P   | Chloromethane               | 0.600 | 0.567 | 5.5   | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.633 | 0.595 | 6.0#  | 91    | 0.00     |
| 5 T   | Bromomethane                | 0.450 | 0.412 | 8.4   | 92    | 0.00     |
| 6 T   | Chloroethane                | 0.391 | 0.378 | 3.3   | 94    | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.784 | 0.755 | 3.7   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 0.368 | 0.349 | 5.2   | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.473 | 0.447 | 5.5   | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 0.575 | 0.595 | -3.5  | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.122 | 0.115 | 5.7   | 95    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.481 | 0.462 | 4.0#  | 93    | 0.00     |
| 13 T  | Acrolein                    | 0.070 | 0.076 | -8.6  | 109   | 0.00     |
| 14 T  | Allyl chloride              | 0.859 | 0.867 | -0.9  | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 0.286 | 0.293 | -2.4  | 99    | 0.00     |
| 16 T  | Acetone                     | 0.368 | 0.262 | 28.8# | 66    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.418 | 1.255 | 11.5  | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 0.729 | 0.779 | -6.9  | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.580 | 1.615 | -2.2  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 0.579 | 0.541 | 6.6   | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.530 | 0.504 | 4.9   | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.711 | 1.756 | -2.6  | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.397 | 1.246 | 10.8  | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.952 | 0.937 | 1.6   | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.454 | 0.415 | 8.6   | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.739 | 0.685 | 7.3   | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.599 | 0.594 | 0.8   | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 0.332 | 0.384 | -15.7 | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.254 | 0.266 | -4.7  | 100   | 0.00     |
| 30 C  | Chloroform                  | 0.903 | 0.903 | 0.0   | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 0.847 | 0.833 | 1.7   | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.769 | 0.761 | 1.0   | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.567 | 0.572 | -0.9  | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.304 | 0.304 | 0.0   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.459 | 0.447 | 2.6   | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.507 | 0.522 | -3.0  | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.418 | 0.422 | -1.0  | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.566 | 0.528 | 6.7   | 90    | 0.00     |
| 40 TM | Benzene                     | 1.412 | 1.377 | 2.5   | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.281 | 0.290 | -3.2  | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.479 | 0.475 | 0.8   | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.838 | 0.863 | -3.0  | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.390 | 0.381 | 2.3   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.362 | 0.361 | 0.3#  | 97    | 0.00     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121919\  
 Data File : VX014136.D  
 Acq On : 19 Dec 2019 21:17  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 20 03:49:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.239 | 0.232 | 2.9    | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.451 | 0.452 | -0.2   | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.411 | 0.419 | -1.9   | 97    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.008 | 0.0    | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 1.183 | 1.190 | -0.6   | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.527 | 0.531 | -0.8   | 97    | 0.00     |
| 52 CM | Toluene                     | 0.892 | 0.866 | 2.9#   | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.494 | 0.506 | -2.4   | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.550 | 0.567 | -3.1   | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.358 | 0.353 | 1.4    | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.562 | 0.579 | -3.0   | 95    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.602 | 0.600 | 0.3    | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.213 | 0.220 | -3.3   | 93    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.424 | 0.404 | 4.7    | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.355 | 0.371 | -4.5   | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.366 | 0.371 | -1.4   | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.433 | 0.425 | 1.8    | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.442 | 0.552 | -24.9# | 121   | 0.00     |
| 65 PM | Chlorobenzene               | 1.063 | 1.026 | 3.5    | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.380 | 0.383 | -0.8   | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.828 | 1.837 | -0.5#  | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.703 | 0.693 | 1.4    | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.689 | 0.671 | 2.6    | 92    | 0.00     |
| 70 T  | Styrene                     | 1.166 | 1.155 | 0.9    | 92    | 0.00     |
| 71 P  | Bromoform                   | 0.305 | 0.313 | -2.6   | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.520 | 3.598 | -2.2   | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.650 | 1.689 | -2.4   | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.220 | 1.183 | 3.0    | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.085 | 0.979 | 9.8    | 81    | 0.00     |
| 77 T  | Bromobenzene                | 0.969 | 0.937 | 3.3    | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 3.949 | 4.064 | -2.9   | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.400 | 2.389 | 0.5    | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.963 | 2.955 | 0.3    | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.385 | 0.395 | -2.6   | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.784 | 2.741 | 1.5    | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.883 | 2.627 | 8.9    | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.967 | 3.039 | -2.4   | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.404 | 3.427 | -0.7   | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.114 | 3.141 | -0.9   | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.698 | 1.639 | 3.5    | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.726 | 1.638 | 5.1    | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.657 | 2.677 | -0.8   | 90    | 0.00     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\  
Data File : VX014136.D  
Acq On : 19 Dec 2019 21:17  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Dec 20 03:49:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 17 03:01:07 2019  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.559 | 0.566 | -1.3 | 92    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.709 | 1.626 | 4.9  | 90    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.270 | 0.257 | 4.8  | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.111 | 1.089 | 2.0  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.534 | 0.508 | 4.9  | 91    | 0.00     |
| 95 T | Naphthalene                 | 3.263 | 3.464 | -6.2 | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.096 | 1.088 | 0.7  | 91    | 0.00     |

(#) = Out of Range

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