

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030619\  
 Data File : VX007872.D  
 Acq On : 06 Mar 2019 20:40  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 07 08:52:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 07 07:33:26 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   | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.427 | 0.405 | 5.2   | 98    | 0.00     |
| 3 P   | Chloromethane               | 0.551 | 0.508 | 7.8   | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.547 | 0.519 | 5.1#  | 98    | 0.00     |
| 5 T   | Bromomethane                | 0.333 | 0.242 | 27.3# | 98    | 0.00     |
| 6 T   | Chloroethane                | 0.363 | 0.339 | 6.6   | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.712 | 0.670 | 5.9   | 98    | 0.00     |
| 8 T   | Diethyl Ether               | 0.308 | 0.291 | 5.5   | 99    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.441 | 0.409 | 7.3   | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 0.626 | 0.627 | -0.2  | 99    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.118 | 0.111 | 5.9   | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.425 | 0.398 | 6.4#  | 98    | 0.00     |
| 13 T  | Acrolein                    | 0.071 | 0.058 | 18.3  | 91    | 0.00     |
| 14 T  | Allyl chloride              | 0.894 | 0.823 | 7.9   | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 0.298 | 0.277 | 7.0   | 99    | 0.00     |
| 16 T  | Acetone                     | 0.305 | 0.230 | 24.6# | 75    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.428 | 1.234 | 13.6  | 97    | 0.00     |
| 18 T  | Methyl Acetate              | 0.649 | 0.621 | 4.3   | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.463 | 1.387 | 5.2   | 98    | 0.00     |
| 20 T  | Methylene Chloride          | 0.486 | 0.451 | 7.2   | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.468 | 0.429 | 8.3   | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.639 | 1.571 | 4.1   | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.437 | 1.371 | 4.6   | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.882 | 0.832 | 5.7   | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 0.432 | 0.387 | 10.4  | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.584 | 0.492 | 15.8  | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.536 | 0.500 | 6.7   | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 0.411 | 0.397 | 3.4   | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.270 | 0.258 | 4.4   | 99    | 0.00     |
| 30 C  | Chloroform                  | 0.834 | 0.790 | 5.3#  | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 0.810 | 0.774 | 4.4   | 98    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.692 | 0.667 | 3.6   | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.527 | 0.531 | -0.8  | 103   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.320 | 0.322 | -0.6  | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.453 | 0.416 | 8.2   | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.537 | 0.505 | 6.0   | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.430 | 0.407 | 5.3   | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.549 | 0.524 | 4.6   | 97    | 0.00     |
| 40 TM | Benzene                     | 1.348 | 1.286 | 4.6   | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.293 | 0.282 | 3.8   | 99    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.441 | 0.415 | 5.9   | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.795 | 0.771 | 3.0   | 98    | 0.00     |
| 44 TM | Trichloroethene             | 0.371 | 0.345 | 7.0   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.356 | 0.340 | 4.5#  | 98    | 0.00     |

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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              | 0.225 | 0.212 | 5.8  | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.427 | 0.409 | 4.2  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.418 | 0.406 | 2.9  | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.008 | 11.1 | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 1.175 | 1.213 | -3.2 | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.511 | 0.497 | 2.7  | 99    | 0.00     |
| 52 CM | Toluene                     | 0.823 | 0.794 | 3.5# | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.446 | 0.440 | 1.3  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.503 | 0.494 | 1.8  | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.333 | 0.324 | 2.7  | 99    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.500 | 0.502 | -0.4 | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.559 | 0.540 | 3.4  | 99    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.259 | 0.266 | -2.7 | 102   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.397 | 0.372 | 6.3  | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.348 | 0.343 | 1.4  | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.354 | 0.341 | 3.7  | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.412 | 0.423 | -2.7 | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.414 | 0.376 | 9.2  | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 1.046 | 0.974 | 6.9  | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.375 | 0.356 | 5.1  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.722 | 1.659 | 3.7# | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.664 | 0.637 | 4.1  | 98    | 0.00     |
| 69 T  | o-Xylene                    | 0.641 | 0.616 | 3.9  | 98    | 0.00     |
| 70 T  | Styrene                     | 1.049 | 1.017 | 3.1  | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.322 | 0.303 | 5.9  | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.382 | 3.354 | 0.8  | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 1.544 | 1.514 | 1.9  | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.166 | 1.082 | 7.2  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.049 | 1.032 | 1.6  | 115   | 0.00     |
| 77 T  | Bromobenzene                | 0.927 | 0.873 | 5.8  | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 3.751 | 3.749 | 0.1  | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.294 | 2.184 | 4.8  | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.783 | 2.755 | 1.0  | 99    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.328 | 0.310 | 5.5  | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.629 | 2.530 | 3.8  | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.804 | 2.730 | 2.6  | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.853 | 2.801 | 1.8  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.302 | 3.276 | 0.8  | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.957 | 2.959 | -0.1 | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.640 | 1.548 | 5.6  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.680 | 1.536 | 8.6  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.505 | 2.499 | 0.2  | 97    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.494 | 0.482 | 2.4  | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.629 | 1.526 | 6.3  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.244 | 0.230 | 5.7  | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.145 | 1.097 | 4.2  | 98    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.598 | 0.562 | 6.0  | 96    | 0.00     |
| 95 T | Naphthalene                 | 3.298 | 3.284 | 0.4  | 98    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.140 | 1.088 | 4.6  | 97    | 0.00     |

(#) = Out of Range

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