

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030819\  
 Data File : VX007935.D  
 Acq On : 08 Mar 2019 17:08  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 09 05:12:12 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   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.427 | 0.408 | 4.4   | 91    | 0.00     |
| 3 P   | Chloromethane               | 0.551 | 0.520 | 5.6   | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.547 | 0.523 | 4.4#  | 91    | 0.00     |
| 5 T   | Bromomethane                | 0.333 | 0.250 | 24.9# | 93    | 0.00     |
| 6 T   | Chloroethane                | 0.363 | 0.335 | 7.7   | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.712 | 0.682 | 4.2   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 0.308 | 0.297 | 3.6   | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.441 | 0.431 | 2.3   | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.626 | 0.646 | -3.2  | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.118 | 0.107 | 9.3   | 89    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.425 | 0.403 | 5.2#  | 92    | 0.00     |
| 13 T  | Acrolein                    | 0.071 | 0.053 | 25.4# | 77    | 0.00     |
| 14 T  | Allyl chloride              | 0.894 | 0.833 | 6.8   | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 0.298 | 0.273 | 8.4   | 90    | 0.00     |
| 16 T  | Acetone                     | 0.305 | 0.273 | 10.5  | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.428 | 1.242 | 13.0  | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 0.649 | 0.630 | 2.9   | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.463 | 1.410 | 3.6   | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 0.486 | 0.457 | 6.0   | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.468 | 0.431 | 7.9   | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.639 | 1.537 | 6.2   | 89    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.437 | 1.341 | 6.7   | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.882 | 0.858 | 2.7   | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.432 | 0.393 | 9.0   | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.584 | 0.562 | 3.8   | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.536 | 0.498 | 7.1   | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 0.411 | 0.396 | 3.6   | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.270 | 0.248 | 8.1   | 87    | 0.00     |
| 30 C  | Chloroform                  | 0.834 | 0.784 | 6.0#  | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 0.810 | 0.782 | 3.5   | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.692 | 0.662 | 4.3   | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.527 | 0.495 | 6.1   | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.320 | 0.312 | 2.5   | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.453 | 0.438 | 3.3   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.537 | 0.496 | 7.6   | 85    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.430 | 0.418 | 2.8   | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.549 | 0.571 | -4.0  | 94    | 0.00     |
| 40 TM | Benzene                     | 1.348 | 1.323 | 1.9   | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.293 | 0.287 | 2.0   | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.441 | 0.427 | 3.2   | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.795 | 0.778 | 2.1   | 88    | 0.00     |
| 44 TM | Trichloroethene             | 0.371 | 0.364 | 1.9   | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.356 | 0.352 | 1.1#  | 90    | 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 | 0.219 | 2.7   | 89    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.427 | 0.419 | 1.9   | 88    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.418 | 0.414 | 1.0   | 89    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.008 | 11.1  | 87    | 0.00     |
| 50 S  | Toluene-d8                  | 1.175 | 1.204 | -2.5  | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.511 | 0.502 | 1.8   | 89    | 0.00     |
| 52 CM | Toluene                     | 0.823 | 0.832 | -1.1# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.446 | 0.466 | -4.5  | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.503 | 0.523 | -4.0  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.333 | 0.337 | -1.2  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.500 | 0.523 | -4.6  | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.559 | 0.560 | -0.2  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.259 | 0.270 | -4.2  | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.397 | 0.381 | 4.0   | 88    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.348 | 0.353 | -1.4  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.354 | 0.353 | 0.3   | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.412 | 0.431 | -4.6  | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.414 | 0.408 | 1.4   | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 1.046 | 1.026 | 1.9   | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.375 | 0.369 | 1.6   | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.722 | 1.738 | -0.9# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.664 | 0.672 | -1.2  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.641 | 0.650 | -1.4  | 93    | 0.00     |
| 70 T  | Styrene                     | 1.049 | 1.079 | -2.9  | 94    | 0.00     |
| 71 P  | Bromoform                   | 0.322 | 0.310 | 3.7   | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.382 | 3.473 | -2.7  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.544 | 1.479 | 4.2   | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.166 | 1.077 | 7.6   | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.049 | 1.048 | 0.1   | 108   | 0.00     |
| 77 T  | Bromobenzene                | 0.927 | 0.906 | 2.3   | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 3.751 | 3.886 | -3.6  | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.294 | 2.296 | -0.1  | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.783 | 2.894 | -4.0  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.328 | 0.326 | 0.6   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.629 | 2.645 | -0.6  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.804 | 2.834 | -1.1  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.853 | 2.924 | -2.5  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.302 | 3.483 | -5.5  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.957 | 3.126 | -5.7  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.640 | 1.623 | 1.0   | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.680 | 1.622 | 3.5   | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.505 | 2.698 | -7.7  | 97    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.494 | 0.506 | -2.4 | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.629 | 1.593 | 2.2  | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.244 | 0.221 | 9.4  | 85    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.145 | 1.177 | -2.8 | 97    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.598 | 0.636 | -6.4 | 100   | 0.00     |
| 95 T | Naphthalene                 | 3.298 | 3.327 | -0.9 | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.140 | 1.154 | -1.2 | 95    | 0.00     |

(#) = Out of Range

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