

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060719\  
 Data File : VX010107.D  
 Acq On : 07 Jun 2019 13:51  
 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICSVVX060719

Quant Time: Jun 08 02:54:09 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 02:12:13 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   | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.460 | 0.515 | -12.0 | 109   | 0.00     |
| 3 P   | Chloromethane               | 0.457 | 0.458 | -0.2  | 105   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.429 | 0.429 | 0.0   | 105   | 0.00     |
| 5 T   | Bromomethane                | 0.162 | 0.171 | -5.6  | 113   | 0.00     |
| 6 T   | Chloroethane                | 0.217 | 0.234 | -7.8  | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.638 | 0.637 | 0.2   | 107   | 0.00     |
| 8 T   | Diethyl Ether               | 0.220 | 0.211 | 4.1   | 106   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.440 | 0.441 | -0.2  | 110   | 0.00     |
| 10 T  | Methyl Iodide               | 0.681 | 0.690 | -1.3  | 104   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.120 | 0.121 | -0.8  | 107   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.449 | 0.446 | 0.7#  | 108   | 0.00     |
| 13 T  | Acrolein                    | 0.022 | 0.022 | 0.0   | 96    | 0.00     |
| 14 T  | Allyl chloride              | 0.678 | 0.676 | 0.3   | 109   | 0.00     |
| 15 T  | Acrylonitrile               | 0.244 | 0.243 | 0.4   | 106   | 0.00     |
| 16 T  | Acetone                     | 0.230 | 0.232 | -0.9  | 110   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.298 | 1.288 | 0.8   | 110   | 0.00     |
| 18 T  | Methyl Acetate              | 0.505 | 0.491 | 2.8   | 108   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.443 | 1.430 | 0.9   | 108   | 0.00     |
| 20 T  | Methylene Chloride          | 0.504 | 0.488 | 3.2   | 107   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.497 | 0.473 | 4.8   | 105   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.296 | 1.307 | -0.8  | 107   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.156 | 1.177 | -1.8  | 107   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.787 | 0.774 | 1.7   | 108   | 0.00     |
| 25 T  | 2-Butanone                  | 0.342 | 0.351 | -2.6  | 109   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.718 | 0.724 | -0.8  | 110   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.553 | 0.548 | 0.9   | 107   | 0.00     |
| 28 T  | Bromochloromethane          | 0.353 | 0.332 | 5.9   | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.215 | 0.214 | 0.5   | 107   | 0.00     |
| 30 C  | Chloroform                  | 0.817 | 0.810 | 0.9#  | 107   | 0.00     |
| 31 T  | Cyclohexane                 | 0.710 | 0.721 | -1.5  | 108   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.768 | 0.751 | 2.2   | 108   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.488 | 0.478 | 2.0   | 106   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.308 | 0.308 | 0.0   | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.408 | 0.411 | -0.7  | 109   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.424 | 0.422 | 0.5   | 106   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.462 | 0.452 | 2.2   | 106   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.555 | 0.553 | 0.4   | 108   | 0.00     |
| 40 TM | Benzene                     | 1.261 | 1.264 | -0.2  | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.230 | 0.229 | 0.4   | 106   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.403 | 0.409 | -1.5  | 108   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.710 | 0.704 | 0.8   | 107   | 0.00     |
| 44 TM | Trichloroethene             | 0.380 | 0.378 | 0.5   | 108   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.316 | 0.318 | -0.6# | 107   | 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              | 0.237 | 0.230 | 3.0  | 108   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.442 | 0.443 | -0.2 | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.332 | 0.342 | -3.0 | 107   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0  | 104   | 0.00     |
| 50 S  | Toluene-d8                  | 1.156 | 1.166 | -0.9 | 105   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.424 | 0.432 | -1.9 | 105   | 0.00     |
| 52 CM | Toluene                     | 0.829 | 0.827 | 0.2# | 108   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.511 | 0.519 | -1.6 | 107   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.548 | 0.547 | 0.2  | 107   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.340 | 0.342 | -0.6 | 106   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.536 | 0.545 | -1.7 | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.535 | 0.530 | 0.9  | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.253 | 0.277 | -9.5 | 113   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.338 | 0.342 | -1.2 | 105   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.402 | 0.406 | -1.0 | 107   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.378 | 0.376 | 0.5  | 107   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.432 | 0.439 | -1.6 | 106   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.371 | 0.358 | 3.5  | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 1.032 | 1.025 | 0.7  | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.397 | 0.399 | -0.5 | 107   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.757 | 1.751 | 0.3# | 106   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.680 | 0.677 | 0.4  | 106   | 0.00     |
| 69 T  | o-Xylene                    | 0.676 | 0.669 | 1.0  | 107   | 0.00     |
| 70 T  | Styrene                     | 1.145 | 1.149 | -0.3 | 105   | 0.00     |
| 71 P  | Bromoform                   | 0.365 | 0.363 | 0.5  | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.490 | 3.559 | -2.0 | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 1.380 | 1.382 | -0.1 | 104   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.195 | 1.174 | 1.8  | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.000 | 1.003 | -0.3 | 106   | 0.00     |
| 77 T  | Bromobenzene                | 0.960 | 0.958 | 0.2  | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 3.886 | 3.982 | -2.5 | 107   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.334 | 2.347 | -0.6 | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.940 | 2.937 | 0.1  | 106   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.453 | 0.460 | -1.5 | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.651 | 2.697 | -1.7 | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.975 | 3.015 | -1.3 | 107   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.969 | 2.980 | -0.4 | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.467 | 3.477 | -0.3 | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.169 | 3.179 | -0.3 | 105   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.691 | 1.691 | 0.0  | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.704 | 1.660 | 2.6  | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.728 | 2.799 | -2.6 | 107   | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.631 | 0.636 | -0.8 | 106   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.644 | 1.635 | 0.5  | 105   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.281 | 0.272 | 3.2  | 105   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.203 | 1.183 | 1.7  | 107   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.535 | 0.530 | 0.9  | 107   | 0.00     |
| 95 T | Naphthalene                 | 3.787 | 3.794 | -0.2 | 106   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.190 | 1.161 | 2.4  | 105   | 0.00     |

(#) = Out of Range

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