

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX092419\  
 Data File : VX012647.D  
 Acq On : 24 Sep 2019 20:48  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 25 07:03:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 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   | 87    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.562 | 0.516 | 8.2   | 85    | 0.00     |
| 3 P   | Chloromethane               | 0.646 | 0.592 | 8.4   | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.642 | 0.633 | 1.4#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 0.252 | 0.238 | 5.6   | 93    | 0.00     |
| 6 T   | Chloroethane                | 0.433 | 0.388 | 10.4  | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.901 | 0.879 | 2.4   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 0.369 | 0.366 | 0.8   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.549 | 0.549 | 0.0   | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 0.517 | 0.581 | -12.4 | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.182 | 0.192 | -5.5  | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.538 | 0.553 | -2.8# | 90    | 0.00     |
| 13 T  | Acrolein                    | 0.094 | 0.094 | 0.0   | 84    | 0.00     |
| 14 T  | Allyl chloride              | 1.067 | 1.070 | -0.3  | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 0.369 | 0.382 | -3.5  | 92    | 0.00     |
| 16 T  | Acetone                     | 0.386 | 0.335 | 13.2  | 76    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.507 | 1.389 | 7.8   | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 0.908 | 0.927 | -2.1  | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.035 | 2.129 | -4.6  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.652 | 0.645 | 1.1   | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.596 | 0.599 | -0.5  | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.061 | 2.143 | -4.0  | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.807 | 1.870 | -3.5  | 90    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.120 | 1.147 | -2.4  | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.553 | 0.547 | 1.1   | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.996 | 0.891 | 10.5  | 80    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.691 | 0.706 | -2.2  | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 0.407 | 0.414 | -1.7  | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.337 | 0.358 | -6.2  | 93    | 0.00     |
| 30 C  | Chloroform                  | 1.146 | 1.152 | -0.5# | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 1.013 | 1.045 | -3.2  | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.016 | 1.027 | -1.1  | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.728 | 0.773 | -6.2  | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.298 | 0.317 | -6.4  | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.482 | 0.485 | -0.6  | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.563 | 0.585 | -3.9  | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.490 | 0.472 | 3.7   | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.580 | 0.578 | 0.3   | 93    | 0.00     |
| 40 TM | Benzene                     | 1.418 | 1.431 | -0.9  | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.316 | 0.321 | -1.6  | 92    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.538 | 0.544 | -1.1  | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.942 | 0.951 | -1.0  | 92    | 0.00     |
| 44 TM | Trichloroethene             | 0.363 | 0.362 | 0.3   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.363 | 0.374 | -3.0# | 95    | 0.00     |

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|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.247 | 0.249 | -0.8  | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.494 | 0.486 | 1.6   | 88    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.452 | 0.465 | -2.9  | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.011 | -10.0 | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 1.147 | 1.222 | -6.5  | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.582 | 0.602 | -3.4  | 94    | 0.00     |
| 52 CM | Toluene                     | 0.891 | 0.910 | -2.1# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.547 | 0.567 | -3.7  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.597 | 0.599 | -0.3  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.354 | 0.366 | -3.4  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.595 | 0.630 | -5.9  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.620 | 0.637 | -2.7  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.267 | 0.290 | -8.6  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.445 | 0.468 | -5.2  | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.359 | 0.367 | -2.2  | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.369 | 0.387 | -4.9  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.451 | 0.491 | -8.9  | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.349 | 0.356 | -2.0  | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.053 | 1.053 | 0.0   | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.381 | 0.385 | -1.0  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.910 | 1.966 | -2.9# | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.715 | 0.727 | -1.7  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.692 | 0.714 | -3.2  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.160 | 1.252 | -7.9  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.266 | 0.274 | -3.0  | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.072 | 3.994 | 1.9   | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.943 | 1.997 | -2.8  | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.349 | 1.332 | 1.3   | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.323 | 1.309 | 1.1   | 92    | 0.00     |
| 77 T  | Bromobenzene                | 0.922 | 0.909 | 1.4   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 4.585 | 4.575 | 0.2   | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.860 | 2.763 | 3.4   | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.415 | 3.444 | -0.8  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.462 | 0.444 | 3.9   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.260 | 3.227 | 1.0   | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.294 | 3.200 | 2.9   | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.445 | 3.475 | -0.9  | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.832 | 3.846 | -0.4  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.457 | 3.574 | -3.4  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.659 | 1.677 | -1.1  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.676 | 1.700 | -1.4  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.047 | 3.135 | -2.9  | 96    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.616 | 0.597 | 3.1   | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.661 | 1.687 | -1.6  | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.337 | 0.356 | -5.6  | 94    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.013 | 1.087 | -7.3  | 100   | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.436 | 0.443 | -1.6  | 96    | 0.00     |
| 95 T | Naphthalene                 | 3.664 | 4.246 | -15.9 | 103   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.014 | 1.113 | -9.8  | 100   | 0.00     |

(#) = Out of Range

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