

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022522\  
 Data File : VX027205.D  
 Acq On : 25 Feb 2022 21:34  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 25 23:21:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022322W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 23 13:06:57 2022  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.497 | 0.473 | 4.8   | 91    | 0.00     |
| 3 P   | Chloromethane               | 0.465 | 0.479 | -3.0  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.463 | 0.444 | 4.1#  | 88    | 0.00     |
| 5 T   | Bromomethane                | 0.210 | 0.184 | 12.4  | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.284 | 0.274 | 3.5   | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.720 | 0.702 | 2.5   | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 0.251 | 0.252 | -0.4  | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.501 | 0.491 | 2.0   | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 0.673 | 0.714 | -6.1  | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.117 | 0.116 | 0.9   | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.487 | 0.481 | 1.2#  | 92    | 0.00     |
| 13 T  | Acrolein                    | 0.108 | 0.118 | -9.3  | 106   | 0.00     |
| 14 T  | Allyl chloride              | 0.857 | 0.850 | 0.8   | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.300 | 0.308 | -2.7  | 93    | 0.00     |
| 16 T  | Acetone                     | 0.264 | 0.259 | 1.9   | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.266 | 1.191 | 5.9   | 88    | 0.00     |
| 18 T  | Methyl Acetate              | 0.681 | 0.688 | -1.0  | 93    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.670 | 1.701 | -1.9  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.546 | 0.551 | -0.9  | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.519 | 0.524 | -1.0  | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.671 | 1.701 | -1.8  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.411 | 1.489 | -5.5  | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.944 | 0.951 | -0.7  | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.420 | 0.426 | -1.4  | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.685 | 0.635 | 7.3   | 84    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.602 | 0.617 | -2.5  | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.382 | 0.355 | 7.1   | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.281 | 0.283 | -0.7  | 93    | 0.00     |
| 30 C  | Chloroform                  | 0.981 | 0.984 | -0.3# | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 0.899 | 0.875 | 2.7   | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.849 | 0.865 | -1.9  | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.601 | 0.613 | -2.0  | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.310 | 0.311 | -0.3  | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.453 | 0.447 | 1.3   | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.497 | 0.496 | 0.2   | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.472 | 0.471 | 0.2   | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.563 | 0.561 | 0.4   | 93    | 0.00     |
| 40 TM | Benzene                     | 1.325 | 1.329 | -0.3  | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.273 | 0.273 | 0.0   | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.470 | 0.475 | -1.1  | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.765 | 0.794 | -3.8  | 95    | 0.00     |
| 44 TM | Trichloroethene             | 0.396 | 0.392 | 1.0   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.324 | 0.333 | -2.8# | 94    | 0.00     |
| 46 T  | Dibromomethane              | 0.232 | 0.244 | -5.2  | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.454 | 0.463 | -2.0  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.370 | 0.398 | -7.6  | 97    | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.009 | -12.5 | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 1.160 | 1.181 | -1.8  | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.497 | 0.516 | -3.8  | 95    | 0.00     |
| 52 CM | Toluene                     | 0.848 | 0.874 | -3.1# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.446 | 0.473 | -6.1  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.506 | 0.530 | -4.7  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.336 | 0.353 | -5.1  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.523 | 0.568 | -8.6  | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.559 | 0.583 | -4.3  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.252 | 0.261 | -3.6  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.380 | 0.401 | -5.5  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.348 | 0.371 | -6.6  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.358 | 0.367 | -2.5  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.445 | 0.446 | -0.2  | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.452 | 0.431 | 4.6   | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 1.019 | 1.013 | 0.6   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.370 | 0.377 | -1.9  | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.789 | 1.811 | -1.2# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.688 | 0.696 | -1.2  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.690 | 0.686 | 0.6   | 94    | 0.00     |
| 70 T  | Styrene                     | 1.130 | 1.160 | -2.7  | 94    | 0.00     |
| 71 P  | Bromoform                   | 0.280 | 0.290 | -3.6  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.578 | 3.645 | -1.9  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.361 | 1.504 | -10.5 | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.057 | 1.071 | -1.3  | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.007 | 1.066 | -5.9  | 98    | 0.00     |
| 77 T  | Bromobenzene                | 0.892 | 0.900 | -0.9  | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 4.066 | 4.158 | -2.3  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.492 | 2.525 | -1.3  | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.008 | 3.070 | -2.1  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.315 | 0.302 | 4.1   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.847 | 2.898 | -1.8  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.925 | 3.005 | -2.7  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.993 | 3.066 | -2.4  | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.668 | 3.775 | -2.9  | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.127 | 3.223 | -3.1  | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.679 | 1.674 | 0.3   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.717 | 1.681 | 2.1   | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.614 | 2.628 | -0.5  | 90    | 0.00     |
| 90 T  | Hexachloroethane            | 0.484 | 0.505 | -4.3  | 93    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.638 | 1.627 | 0.7   | 92    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.245 | 0.256 | -4.5  | 94    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.034 | 1.020 | 1.4   | 89    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.429 | 0.415 | 3.3   | 89    | 0.00     |
| 95 T  | Naphthalene                 | 3.513 | 3.662 | -4.2  | 92    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.036 | 1.046 | -1.0 | 91    | 0.00     |

(#) = Out of Range

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