

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092521\  
 Data File : VU044829.D  
 Acq On : 25 Sep 2021 12:12  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 27 01:28:17 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U092421W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 25 09:30:46 2021  
 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                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0  | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.599 | 0.583 | 2.7  | 95    | 0.00     |
| 3 P   | Chloromethane               | 0.909 | 0.790 | 13.1 | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.848 | 0.791 | 6.7# | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.450 | 0.455 | -1.1 | 111   | 0.00     |
| 6 T   | Chloroethane                | 0.659 | 0.561 | 14.9 | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.042 | 1.035 | 0.7  | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 0.477 | 0.468 | 1.9  | 97    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.608 | 0.604 | 0.7  | 99    | 0.00     |
| 10 T  | Methyl Iodide               | 0.661 | 0.609 | 7.9  | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.255 | 0.207 | 18.8 | 85    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 0.602 | 0.566 | 6.0# | 95    | 0.00     |
| 13 T  | Acrolein                    | 0.072 | 0.077 | -6.9 | 112   | 0.00     |
| 14 T  | Allyl chloride              | 1.169 | 1.084 | 7.3  | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 0.532 | 0.496 | 6.8  | 91    | 0.00     |
| 16 T  | Acetone                     | 0.492 | 0.456 | 7.3  | 96    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.694 | 1.526 | 9.9  | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 1.644 | 1.485 | 9.7  | 91    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.248 | 2.192 | 2.5  | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 0.797 | 0.712 | 10.7 | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.645 | 0.619 | 4.0  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.309 | 2.222 | 3.8  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.893 | 1.849 | 2.3  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.340 | 1.300 | 3.0  | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.747 | 0.690 | 7.6  | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.005 | 0.992 | 1.3  | 99    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.784 | 0.738 | 5.9  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.637 | 0.619 | 2.8  | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.470 | 0.428 | 8.9  | 88    | 0.00     |
| 30 C  | Chloroform                  | 1.347 | 1.267 | 5.9# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 1.253 | 1.134 | 9.5  | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.089 | 1.032 | 5.2  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.873 | 0.852 | 2.4  | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.343 | 0.336 | 2.0  | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.531 | 0.518 | 2.4  | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.778 | 0.723 | 7.1  | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.474 | 0.457 | 3.6  | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.600 | 0.616 | -2.7 | 97    | 0.00     |
| 40 TM | Benzene                     | 1.617 | 1.551 | 4.1  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.389 | 0.374 | 3.9  | 91    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.636 | 0.613 | 3.6  | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.089 | 1.043 | 4.2  | 94    | 0.00     |
| 44 TM | Trichloroethene             | 0.389 | 0.362 | 6.9  | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.438 | 0.422 | 3.7# | 92    | 0.00     |
| 46 T  | Dibromomethane              | 0.290 | 0.282 | 2.8  | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.572 | 0.556 | 2.8  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.514 | 0.498 | 3.1  | 92    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

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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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.013 | 0.012 | 7.7   | 87    | 0.00     |
| 50 S  | Toluene-d8                  | 1.295 | 1.305 | -0.8  | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.776 | 0.735 | 5.3   | 92    | 0.00     |
| 52 CM | Toluene                     | 0.967 | 0.959 | 0.8#  | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.596 | 0.606 | -1.7  | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.646 | 0.650 | -0.6  | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.413 | 0.400 | 3.1   | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.652 | 0.667 | -2.3  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.736 | 0.714 | 3.0   | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.145 | 0.142 | 2.1   | 93    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.623 | 0.582 | 6.6   | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.396 | 0.383 | 3.3   | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.434 | 0.422 | 2.8   | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.481 | 0.488 | -1.5  | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.339 | 0.337 | 0.6   | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.038 | 1.014 | 2.3   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.370 | 0.361 | 2.4   | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.853 | 1.918 | -3.5# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.709 | 0.746 | -5.2  | 98    | 0.00     |
| 69 T  | o-Xylene                    | 0.685 | 0.717 | -4.7  | 98    | 0.00     |
| 70 T  | Styrene                     | 1.150 | 1.227 | -6.7  | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.306 | 0.284 | 7.2   | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.549 | 3.689 | -3.9  | 98    | 0.00     |
| 74 T  | N-amyl acetate              | 1.809 | 1.780 | 1.6   | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.617 | 1.501 | 7.2   | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.514 | 1.485 | 1.9   | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.848 | 0.830 | 2.1   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 4.300 | 4.567 | -6.2  | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.621 | 2.674 | -2.0  | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.006 | 3.217 | -7.0  | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.467 | 0.474 | -1.5  | 99    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.984 | 3.121 | -4.6  | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.900 | 2.984 | -2.9  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.964 | 3.170 | -7.0  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.750 | 4.023 | -7.3  | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.051 | 3.308 | -8.4  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.645 | 1.608 | 2.2   | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.701 | 1.630 | 4.2   | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.805 | 3.120 | -11.2 | 101   | 0.00     |
| 90 T  | Hexachloroethane            | 0.550 | 0.541 | 1.6   | 98    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.744 | 1.634 | 6.3   | 95    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.392 | 0.374 | 4.6   | 92    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.963 | 0.966 | -0.3  | 93    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.429 | 0.407 | 5.1   | 92    | 0.00     |
| 95 T  | Naphthalene                 | 3.360 | 3.523 | -4.9  | 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               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.980 | 0.989 | -0.9 | 92    | 0.00     |

(#) = Out of Range

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