

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\U062822\  
 Data File : U049475.D  
 Acq On : 28 Jun 2022 21:51  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 29 05:23:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U062722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 28 10:35:43 2022  
 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    | 157#  | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.803 | 0.735 | 8.5    | 135   | 0.00     |
| 3 P   | Chloromethane               | 1.088 | 0.814 | 25.2#  | 131   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.809 | 0.778 | 3.8#   | 145   | 0.00     |
| 5 T   | Bromomethane                | 0.252 | 0.288 | -14.3  | 195#  | 0.00     |
| 6 T   | Chloroethane                | 0.377 | 0.404 | -7.2   | 191#  | 0.01     |
| 7 T   | Trichlorofluoromethane      | 1.031 | 0.949 | 8.0    | 142   | 0.02     |
| 8 T   | Diethyl Ether               | 0.372 | 0.381 | -2.4   | 167#  | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.555 | 0.576 | -3.8   | 158#  | 0.02     |
| 10 T  | Methyl Iodide               | 0.489 | 0.771 | -57.7# | 284#  | 0.01     |
| 11 T  | Tert butyl alcohol          | 0.180 | 0.214 | -18.9  | 204#  | -0.11    |
| 12 CM | 1,1-Dichloroethene          | 0.543 | 0.573 | -5.5#  | 166#  | 0.02     |
| 13 T  | Acrolein                    | 0.122 | 0.081 | 33.6#  | 109   | 0.00     |
| 14 T  | Allyl chloride              | 1.098 | 1.099 | -0.1   | 158#  | 0.00     |
| 15 T  | Acrylonitrile               | 0.433 | 0.451 | -4.2   | 166#  | 0.00     |
| 16 T  | Acetone                     | 0.388 | 0.366 | 5.7    | 163#  | 0.00     |
| 17 T  | Carbon Disulfide            | 1.694 | 1.614 | 4.7    | 156#  | 0.01     |
| 18 T  | Methyl Acetate              | 1.051 | 1.022 | 2.8    | 161#  | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.020 | 2.134 | -5.6   | 167#  | 0.00     |
| 20 T  | Methylene Chloride          | 0.715 | 0.713 | 0.3    | 173#  | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.585 | 0.603 | -3.1   | 162#  | 0.00     |
| 22 T  | Diisopropyl ether           | 2.096 | 2.177 | -3.9   | 162#  | 0.00     |
| 23 T  | Vinyl Acetate               | 1.837 | 1.915 | -4.2   | 161#  | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.204 | 1.217 | -1.1   | 159#  | 0.00     |
| 25 T  | 2-Butanone                  | 0.582 | 0.605 | -4.0   | 172#  | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.002 | 0.816 | 18.6   | 127   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.676 | 0.722 | -6.8   | 169#  | 0.00     |
| 28 T  | Bromochloromethane          | 0.526 | 0.512 | 2.7    | 149   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.399 | 0.401 | -0.5   | 165#  | 0.00     |
| 30 C  | Chloroform                  | 1.191 | 1.183 | 0.7#   | 158#  | 0.00     |
| 31 T  | Cyclohexane                 | 1.156 | 1.099 | 4.9    | 152#  | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.033 | 1.032 | 0.1    | 152#  | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.770 | 0.717 | 6.9    | 144   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 166#  | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.350 | 0.327 | 6.6    | 153#  | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.507 | 0.489 | 3.6    | 158#  | 0.00     |
| 37 T  | Ethyl Acetate               | 0.693 | 0.650 | 6.2    | 143   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.532 | 0.500 | 6.0    | 151#  | 0.00     |
| 39 T  | Methylcyclohexane           | 0.608 | 0.584 | 3.9    | 150   | 0.00     |
| 40 TM | Benzene                     | 1.531 | 1.505 | 1.7    | 162#  | 0.00     |
| 41 T  | Methacrylonitrile           | 0.347 | 0.342 | 1.4    | 166#  | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.570 | 0.518 | 9.1    | 148   | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.016 | 0.976 | 3.9    | 160#  | 0.00     |
| 44 TM | Trichloroethene             | 0.364 | 0.359 | 1.4    | 163#  | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.424 | 0.407 | 4.0#   | 161#  | 0.00     |
| 46 T  | Dibromomethane              | 0.283 | 0.277 | 2.1    | 160#  | 0.00     |
| 47 T  | Bromodichloromethane        | 0.545 | 0.519 | 4.8    | 156#  | 0.00     |
| 48 T  | Methyl methacrylate         | 0.476 | 0.469 | 1.5    | 162#  | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 29 05:23:20 2022  
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 Quant Title : SW846 8260  
 QLast Update : Tue Jun 28 10:35:43 2022  
 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.012 | 0.013 | -8.3   | 185#  | -0.01    |
| 50 S  | Toluene-d8                  | 1.248 | 1.188 | 4.8    | 156#  | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.680 | 0.641 | 5.7    | 155#  | -0.01    |
| 52 CM | Toluene                     | 0.910 | 0.906 | 0.4#   | 164#  | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.584 | 0.556 | 4.8    | 152#  | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.624 | 0.615 | 1.4    | 157#  | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.376 | 0.375 | 0.3    | 160#  | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.629 | 0.658 | -4.6   | 164#  | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.668 | 0.649 | 2.8    | 159#  | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.043 | 0.075 | -74.4# | 228#  | 0.00     |
| 59 T  | 2-Hexanone                  | 0.534 | 0.501 | 6.2    | 157#  | -0.01    |
| 60 T  | Dibromochloromethane        | 0.391 | 0.391 | 0.0    | 156#  | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.410 | 0.405 | 1.2    | 164#  | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.478 | 0.441 | 7.7    | 149   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 157#  | 0.00     |
| 64 T  | Tetrachloroethene           | 0.321 | 0.318 | 0.9    | 157#  | 0.00     |
| 65 PM | Chlorobenzene               | 1.022 | 1.021 | 0.1    | 159#  | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.386 | 0.400 | -3.6   | 160#  | 0.00     |
| 67 C  | Ethyl Benzene               | 1.877 | 1.939 | -3.3#  | 161#  | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.694 | 0.718 | -3.5   | 161#  | 0.00     |
| 69 T  | o-Xylene                    | 0.689 | 0.720 | -4.5   | 161#  | 0.00     |
| 70 T  | Styrene                     | 1.108 | 1.185 | -6.9   | 160#  | 0.00     |
| 71 P  | Bromoform                   | 0.331 | 0.341 | -3.0   | 155#  | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 147   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.562 | 4.016 | -12.7  | 157#  | 0.00     |
| 74 T  | N-amyl acetate              | 1.885 | 2.032 | -7.8   | 156#  | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.509 | 1.580 | -4.7   | 154#  | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.695 | 1.752 | -3.4   | 151#  | 0.00     |
| 77 T  | Bromobenzene                | 0.869 | 0.938 | -7.9   | 158#  | 0.00     |
| 78 T  | n-propylbenzene             | 4.328 | 4.613 | -6.6   | 149   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.666 | 2.811 | -5.4   | 151#  | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.110 | 3.362 | -8.1   | 152#  | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.459 | 0.465 | -1.3   | 145   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.999 | 3.180 | -6.0   | 151#  | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.058 | 3.342 | -9.3   | 152#  | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.055 | 3.375 | -10.5  | 152#  | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.845 | 4.077 | -6.0   | 146   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.110 | 3.328 | -7.0   | 148   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.662 | 1.682 | -1.2   | 150#  | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.671 | 1.699 | -1.7   | 155#  | 0.00     |
| 89 T  | n-Butylbenzene              | 2.879 | 2.912 | -1.1   | 149   | 0.00     |
| 90 T  | Hexachloroethane            | 0.619 | 0.598 | 3.4    | 137   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.670 | 1.742 | -4.3   | 154#  | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.387 | 0.403 | -4.1   | 155#  | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.159 | 1.113 | 4.0    | 155#  | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.518 | 0.478 | 7.7    | 132   | 0.00     |
| 95 T  | Naphthalene                 | 4.457 | 4.300 | 3.5    | 173#  | 0.00     |

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ALS Vial : 31 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
LabSampleId :  
VSTDCCC050

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U062722W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 28 10:35:43 2022  
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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.217 | 1.166 | 4.2  | 154#  | 0.00     |

(#) = Out of Range

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