

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082622\  
 Data File : VX030862.D  
 Acq On : 27 Aug 2022 10:57  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 27 22:23:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X082522W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 26 02:03:28 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   | 84    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.463 | 0.434 | 6.3   | 83    | 0.00     |
| 3 P   | Chloromethane               | 0.432 | 0.402 | 6.9   | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.508 | 0.470 | 7.5#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 0.233 | 0.227 | 2.6   | 95    | 0.00     |
| 6 T   | Chloroethane                | 0.313 | 0.298 | 4.8   | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.765 | 0.745 | 2.6   | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 0.290 | 0.300 | -3.4  | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.487 | 0.452 | 7.2   | 85    | 0.00     |
| 10 T  | Methyl Iodide               | 0.337 | 0.352 | -4.5  | 78    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.128 | 0.133 | -3.9  | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.453 | 0.414 | 8.6#  | 86    | 0.00     |
| 13 T  | Acrolein                    | 0.097 | 0.095 | 2.1   | 75    | 0.00     |
| 14 T  | Allyl chloride              | 0.839 | 0.757 | 9.8   | 84    | 0.00     |
| 15 T  | Acrylonitrile               | 0.313 | 0.337 | -7.7  | 96    | 0.00     |
| 16 T  | Acetone                     | 0.272 | 0.288 | -5.9  | 96    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.052 | 0.822 | 21.9  | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 0.835 | 0.938 | -12.3 | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.569 | 1.660 | -5.8  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.559 | 0.537 | 3.9   | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.487 | 0.442 | 9.2   | 86    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.685 | 1.820 | -8.0  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.351 | 1.443 | -6.8  | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.955 | 0.949 | 0.6   | 92    | 0.00     |
| 25 T  | 2-Butanone                  | 0.438 | 0.471 | -7.5  | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.692 | 0.250 | 63.9# | 32#   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.601 | 0.569 | 5.3   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 0.411 | 0.443 | -7.8  | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.286 | 0.309 | -8.0  | 98    | 0.00     |
| 30 C  | Chloroform                  | 1.005 | 1.015 | -1.0# | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 0.752 | 0.719 | 4.4   | 86    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.813 | 0.833 | -2.5  | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.588 | 0.606 | -3.1  | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.307 | 0.297 | 3.3   | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.418 | 0.372 | 11.0  | 87    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.496 | 0.497 | -0.2  | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.441 | 0.401 | 9.1   | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.501 | 0.424 | 15.4  | 81    | 0.00     |
| 40 TM | Benzene                     | 1.252 | 1.183 | 5.5   | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.277 | 0.289 | -4.3  | 97    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.444 | 0.444 | 0.0   | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.747 | 0.789 | -5.6  | 98    | 0.00     |
| 44 TM | Trichloroethene             | 0.362 | 0.321 | 11.3  | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.346 | 0.339 | 2.0#  | 92    | 0.00     |
| 46 T  | Dibromomethane              | 0.246 | 0.233 | 5.3   | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.463 | 0.471 | -1.7  | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.372 | 0.400 | -7.5  | 99    | 0.00     |

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 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 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                 | 0.009 | 0.009 | 0.0   | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 1.071 | 1.025 | 4.3   | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.504 | 0.542 | -7.5  | 100   | 0.00     |
| 52 CM | Toluene                     | 0.781 | 0.750 | 4.0#  | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.448 | 0.394 | 12.1  | 78    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.504 | 0.441 | 12.5  | 79    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.347 | 0.348 | -0.3  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.498 | 0.529 | -6.2  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.560 | 0.553 | 1.3   | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.266 | 0.289 | -8.6  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.378 | 0.416 | -10.1 | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.362 | 0.351 | 3.0   | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.352 | 0.348 | 1.1   | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.399 | 0.397 | 0.5   | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.394 | 0.345 | 12.4  | 86    | 0.00     |
| 65 PM | Chlorobenzene               | 0.967 | 0.877 | 9.3   | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.363 | 0.338 | 6.9   | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.671 | 1.583 | 5.3#  | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.640 | 0.600 | 6.3   | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.634 | 0.611 | 3.6   | 92    | 0.00     |
| 70 T  | Styrene                     | 1.051 | 1.033 | 1.7   | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.300 | 0.277 | 7.7   | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.351 | 3.143 | 6.2   | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 1.305 | 1.359 | -4.1  | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.146 | 1.116 | 2.6   | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.095 | 1.001 | 8.6   | 79    | 0.00     |
| 77 T  | Bromobenzene                | 0.826 | 0.743 | 10.0  | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 3.854 | 3.654 | 5.2   | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.361 | 2.196 | 7.0   | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.804 | 2.627 | 6.3   | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.340 | 0.250 | 26.5# | 67    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.646 | 2.494 | 5.7   | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.699 | 2.571 | 4.7   | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.716 | 2.762 | -1.7  | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.517 | 3.343 | 4.9   | 87    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.892 | 2.746 | 5.0   | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.557 | 1.429 | 8.2   | 82    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.598 | 1.467 | 8.2   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.678 | 2.482 | 7.3   | 81    | 0.00     |
| 90 T  | Hexachloroethane            | 0.561 | 0.509 | 9.3   | 84    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.639 | 1.519 | 7.3   | 88    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.295 | 0.290 | 1.7   | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.025 | 0.925 | 9.8   | 80    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.427 | 0.367 | 14.1  | 78    | 0.00     |
| 95 T  | Naphthalene                 | 3.569 | 3.504 | 1.8   | 83    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.084 | 0.988 | 8.9  | 79    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6