

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121922\  
 Data File : VX033496.D  
 Acq On : 19 Dec 2022 20:08  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 20 05:03:03 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X120722W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 07 12:43:54 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    | 79    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.349 | 0.325 | 6.9    | 78    | 0.00     |
| 3 P   | Chloromethane               | 0.404 | 0.356 | 11.9   | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.461 | 0.404 | 12.4#  | 74    | 0.00     |
| 5 T   | Bromomethane                | 0.338 | 0.340 | -0.6   | 89    | 0.00     |
| 6 T   | Chloroethane                | 0.350 | 0.316 | 9.7    | 74    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.866 | 0.649 | 25.1#  | 63    | 0.00     |
| 8 T   | Diethyl Ether               | 0.313 | 0.228 | 27.2#  | 65    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.459 | 0.493 | -7.4   | 87    | 0.00     |
| 10 T  | Methyl Iodide               | 0.503 | 0.562 | -11.7  | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.098 | 0.100 | -2.0   | 98    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.453 | 0.455 | -0.4#  | 85    | 0.00     |
| 13 T  | Acrolein                    | 0.106 | 0.141 | -33.0# | 110   | 0.00     |
| 14 T  | Allyl chloride              | 0.724 | 0.721 | 0.4    | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 0.243 | 0.247 | -1.6   | 86    | 0.00     |
| 16 T  | Acetone                     | 0.237 | 0.217 | 8.4    | 83    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.163 | 0.989 | 15.0   | 71    | 0.00     |
| 18 T  | Methyl Acetate              | 0.687 | 0.744 | -8.3   | 91    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.570 | 1.677 | -6.8   | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 0.529 | 0.516 | 2.5    | 86    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.496 | 0.505 | -1.8   | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.551 | 1.656 | -6.8   | 86    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.204 | 1.276 | -6.0   | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.911 | 0.920 | -1.0   | 86    | 0.00     |
| 25 T  | 2-Butanone                  | 0.341 | 0.346 | -1.5   | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.670 | 0.721 | -7.6   | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.593 | 0.617 | -4.0   | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 0.381 | 0.376 | 1.3    | 79    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.221 | 0.225 | -1.8   | 84    | -0.01    |
| 30 C  | Chloroform                  | 1.012 | 1.068 | -5.5#  | 88    | 0.00     |
| 31 T  | Cyclohexane                 | 0.762 | 0.775 | -1.7   | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.870 | 0.943 | -8.4   | 87    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.321 | 0.297 | 7.5    | 81    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 78    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.225 | 0.222 | 1.3    | 84    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.438 | 0.456 | -4.1   | 84    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.414 | 0.431 | -4.1   | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.491 | 0.523 | -6.5   | 85    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.491 | 0.523 | -6.5   | 83    | 0.00     |
| 40 TM | Benzene                     | 1.278 | 1.365 | -6.8   | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.228 | 0.240 | -5.3   | 83    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.508 | 0.525 | -3.3   | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.667 | 0.704 | -5.5   | 85    | 0.00     |
| 44 TM | Trichloroethene             | 0.352 | 0.385 | -9.4   | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.327 | 0.345 | -5.5#  | 87    | 0.00     |
| 46 T  | Dibromomethane              | 0.249 | 0.259 | -4.0   | 86    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.485 | 0.515 | -6.2   | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.344 | 0.365 | -6.1   | 86    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 20 05:03:03 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X120722W.M  
 Quant Title : SW846 8260  
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 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.008 | 0.0    | 85    | -0.01    |
| 50 S  | Toluene-d8                  | 0.470 | 0.491 | -4.5   | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.422 | 0.459 | -8.8   | 86    | 0.00     |
| 52 CM | Toluene                     | 0.827 | 0.933 | -12.8# | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.473 | 0.534 | -12.9  | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.517 | 0.572 | -10.6  | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.347 | 0.394 | -13.5  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.489 | 0.563 | -15.1  | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.558 | 0.619 | -10.9  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.224 | 0.251 | -12.1  | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.311 | 0.337 | -8.4   | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.383 | 0.429 | -12.0  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.370 | 0.420 | -13.5  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.360 | 0.398 | -10.6  | 88    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.342 | 0.344 | -0.6   | 86    | 0.00     |
| 65 PM | Chlorobenzene               | 1.013 | 1.077 | -6.3   | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.383 | 0.416 | -8.6   | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.764 | 1.928 | -9.3#  | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.686 | 0.753 | -9.8   | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.678 | 0.735 | -8.4   | 89    | 0.00     |
| 70 T  | Styrene                     | 1.111 | 1.240 | -11.6  | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.303 | 0.317 | -4.6   | 85    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.624 | 3.964 | -9.4   | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 1.236 | 1.347 | -9.0   | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.150 | 1.201 | -4.4   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.017 | 1.078 | -6.0   | 91    | 0.00     |
| 77 T  | Bromobenzene                | 0.915 | 0.967 | -5.7   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.047 | 4.410 | -9.0   | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.501 | 2.648 | -5.9   | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.017 | 3.283 | -8.8   | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.327 | 0.339 | -3.7   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.908 | 3.069 | -5.5   | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.008 | 3.334 | -10.8  | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.011 | 3.248 | -7.9   | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.510 | 3.913 | -11.5  | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.026 | 3.316 | -9.6   | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.658 | 1.773 | -6.9   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.693 | 1.786 | -5.5   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.478 | 2.731 | -10.2  | 88    | 0.00     |
| 90 T  | Hexachloroethane            | 0.514 | 0.545 | -6.0   | 87    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.657 | 1.738 | -4.9   | 90    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.248 | 0.237 | 4.4    | 83    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.001 | 1.065 | -6.4   | 90    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.401 | 0.445 | -11.0  | 95    | 0.00     |
| 95 T  | Naphthalene                 | 3.339 | 3.679 | -10.2  | 90    | 0.00     |

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ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X120722W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 07 12:43:54 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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.014 | 1.085 | -7.0 | 90    | 0.00     |

(#) = Out of Range

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