

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX020423\  
 Data File : VX034007.D  
 Acq On : 03 Feb 2023 13:30  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Feb 03 22:19:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X020423W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 03 22:11:54 2023  
 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    | 98    | -0.01    |
| 2 T   | Dichlorodifluoromethane     | 0.406 | 0.485 | -19.5  | 109   | 0.00     |
| 3 P   | Chloromethane               | 0.384 | 0.441 | -14.8  | 109   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.402 | 0.473 | -17.7# | 111   | 0.00     |
| 5 T   | Bromomethane                | 0.207 | 0.233 | -12.6  | 110   | 0.00     |
| 6 T   | Chloroethane                | 0.222 | 0.260 | -17.1  | 108   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.639 | 0.744 | -16.4  | 110   | 0.00     |
| 8 T   | Diethyl Ether               | 0.220 | 0.249 | -13.2  | 107   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.427 | 0.501 | -17.3  | 111   | 0.00     |
| 10 T  | Methyl Iodide               | 0.605 | 0.687 | -13.6  | 104   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.068 | 0.082 | -20.6  | 120   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.409 | 0.471 | -15.2# | 109   | 0.00     |
| 13 T  | Acrolein                    | 0.091 | 0.097 | -6.6   | 103   | 0.00     |
| 14 T  | Allyl chloride              | 0.667 | 0.784 | -17.5  | 109   | 0.00     |
| 15 T  | Acrylonitrile               | 0.217 | 0.242 | -11.5  | 106   | 0.00     |
| 16 T  | Acetone                     | 0.204 | 0.247 | -21.1  | 123   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.039 | 1.213 | -16.7  | 110   | 0.00     |
| 18 T  | Methyl Acetate              | 0.633 | 0.726 | -14.7  | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.262 | 1.468 | -16.3  | 108   | 0.00     |
| 20 T  | Methylene Chloride          | 0.466 | 0.508 | -9.0   | 108   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.446 | 0.510 | -14.3  | 110   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.317 | 1.515 | -15.0  | 109   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.003 | 1.181 | -17.7  | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.759 | 0.873 | -15.0  | 109   | 0.00     |
| 25 T  | 2-Butanone                  | 0.296 | 0.339 | -14.5  | 112   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.554 | 0.659 | -19.0  | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.513 | 0.584 | -13.8  | 109   | 0.00     |
| 28 T  | Bromochloromethane          | 0.334 | 0.290 | 13.2   | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.189 | 0.209 | -10.6  | 106   | 0.00     |
| 30 C  | Chloroform                  | 0.791 | 0.900 | -13.8# | 108   | 0.00     |
| 31 T  | Cyclohexane                 | 0.702 | 0.825 | -17.5  | 110   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.681 | 0.797 | -17.0  | 109   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.482 | 0.462 | 4.1    | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.318 | 0.326 | -2.5   | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.436 | 0.503 | -15.4  | 106   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.406 | 0.472 | -16.3  | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.465 | 0.551 | -18.5  | 109   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.549 | 0.675 | -23.0  | 113   | 0.00     |
| 40 TM | Benzene                     | 1.262 | 1.494 | -18.4  | 108   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.229 | 0.277 | -21.0  | 112   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.429 | 0.507 | -18.2  | 108   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.634 | 0.760 | -19.9  | 106   | 0.00     |
| 44 TM | Trichloroethene             | 0.388 | 0.455 | -17.3  | 109   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.312 | 0.372 | -19.2# | 109   | 0.00     |
| 46 T  | Dibromomethane              | 0.223 | 0.269 | -20.6  | 111   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.423 | 0.509 | -20.3  | 108   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.327 | 0.397 | -21.4  | 108   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Feb 03 22:19:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X020423W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 03 22:11:54 2023  
 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                 | 0.006 | 0.007 | -16.7  | 103   | 0.00     |
| 50 S  | Toluene-d8                  | 1.147 | 1.100 | 4.1    | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.398 | 0.467 | -17.3  | 106   | 0.00     |
| 52 CM | Toluene                     | 0.818 | 0.973 | -18.9# | 109   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.425 | 0.541 | -27.3# | 111   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.484 | 0.602 | -24.4  | 109   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.327 | 0.387 | -18.3  | 108   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.456 | 0.560 | -22.8  | 107   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.534 | 0.625 | -17.0  | 107   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.212 | 0.260 | -22.6  | 110   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.291 | 0.350 | -20.3  | 109   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.362 | 0.439 | -21.3  | 108   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.351 | 0.415 | -18.2  | 108   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.409 | 0.420 | -2.7   | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.417 | 0.486 | -16.5  | 110   | 0.00     |
| 65 PM | Chlorobenzene               | 1.033 | 1.210 | -17.1  | 108   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.390 | 0.466 | -19.5  | 108   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.748 | 2.084 | -19.2# | 110   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.699 | 0.831 | -18.9  | 109   | 0.00     |
| 69 T  | o-Xylene                    | 0.671 | 0.811 | -20.9  | 110   | 0.00     |
| 70 T  | Styrene                     | 1.105 | 1.339 | -21.2  | 109   | 0.00     |
| 71 P  | Bromoform                   | 0.318 | 0.394 | -23.9  | 109   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.342 | 3.906 | -16.9  | 110   | 0.00     |
| 74 T  | N-amyl acetate              | 1.101 | 1.332 | -21.0  | 108   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.005 | 1.110 | -10.4  | 107   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.859 | 0.900 | -4.8   | 107   | 0.00     |
| 77 T  | Bromobenzene                | 0.927 | 1.055 | -13.8  | 108   | 0.00     |
| 78 T  | n-propylbenzene             | 3.695 | 4.385 | -18.7  | 111   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.237 | 2.571 | -14.9  | 110   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.781 | 3.255 | -17.0  | 109   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.279 | 0.325 | -16.5  | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.530 | 2.941 | -16.2  | 110   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.874 | 3.313 | -15.3  | 110   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.779 | 3.259 | -17.3  | 110   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.438 | 4.077 | -18.6  | 110   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.015 | 3.603 | -19.5  | 112   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.700 | 1.939 | -14.1  | 109   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.726 | 1.965 | -13.8  | 111   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.364 | 2.914 | -23.3  | 113   | 0.00     |
| 90 T  | Hexachloroethane            | 0.475 | 0.582 | -22.5  | 114   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.658 | 1.872 | -12.9  | 108   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.198 | 0.224 | -13.1  | 104   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.172 | 1.381 | -17.8  | 110   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.580 | 0.670 | -15.5  | 115   | 0.00     |
| 95 T  | Naphthalene                 | 3.219 | 3.814 | -18.5  | 108   | 0.00     |

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Sample : VSTDCCC050  
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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
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Quant Time: Feb 03 22:19:07 2023  
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Quant Title : SW846 8260  
QLast Update : Fri Feb 03 22:11:54 2023  
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 | 1.177 | 1.374 | -16.7 | 111   | 0.00     |

(#) = Out of Range

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