

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX071024\  
 Data File : VX042255.D  
 Acq On : 10 Jul 2024 10:18  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 11 00:50:49 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061824W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 21 23:51:58 2024  
 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   | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.381 | 0.446 | -17.1 | 107   | 0.00     |
| 3 P   | Chloromethane               | 0.478 | 0.448 | 6.3   | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.479 | 0.453 | 5.4#  | 87    | 0.00     |
| 5 T   | Bromomethane                | 0.237 | 0.261 | -10.1 | 100   | 0.00     |
| 6 T   | Chloroethane                | 0.241 | 0.249 | -3.3  | 107   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.628 | 0.734 | -16.9 | 111   | 0.00     |
| 8 T   | Diethyl Ether               | 0.295 | 0.270 | 8.5   | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.432 | 0.473 | -9.5  | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 0.537 | 0.534 | 0.6   | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.109 | 0.109 | 0.0   | 87    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.431 | 0.451 | -4.6# | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.123 | 0.103 | 16.3  | 75    | 0.00     |
| 14 T  | Allyl chloride              | 0.684 | 0.685 | -0.1  | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 0.286 | 0.279 | 2.4   | 85    | 0.00     |
| 16 T  | Acetone                     | 0.253 | 0.244 | 3.6   | 94    | 0.00     |
| 17 T  | Carbon Disulfide            | 0.879 | 0.918 | -4.4  | 100   | 0.00     |
| 18 T  | Methyl Acetate              | 0.691 | 0.607 | 12.2  | 74    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.425 | 1.450 | -1.8  | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 0.554 | 0.510 | 7.9   | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.438 | 0.455 | -3.9  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.446 | 1.435 | 0.8   | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.235 | 1.283 | -3.9  | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.810 | 0.827 | -2.1  | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.394 | 0.379 | 3.8   | 84    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.586 | 0.635 | -8.4  | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.548 | 0.556 | -1.5  | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 0.347 | 0.302 | 13.0  | 81    | -0.01    |
| 29 T  | Tetrahydrofuran             | 0.254 | 0.245 | 3.5   | 83    | -0.01    |
| 30 C  | Chloroform                  | 0.843 | 0.859 | -1.9# | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 0.674 | 0.696 | -3.3  | 96    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.705 | 0.750 | -6.4  | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.577 | 0.468 | 18.9  | 77    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.355 | 0.321 | 9.6   | 79    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.377 | 0.414 | -9.8  | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.491 | 0.517 | -5.3  | 85    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.416 | 0.483 | -16.1 | 98    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.476 | 0.552 | -16.0 | 100   | 0.00     |
| 40 TM | Benzene                     | 1.271 | 1.360 | -7.0  | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.266 | 0.285 | -7.1  | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.409 | 0.438 | -7.1  | 90    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.753 | 0.774 | -2.8  | 84    | 0.00     |
| 44 TM | Trichloroethene             | 0.341 | 0.375 | -10.0 | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.312 | 0.333 | -6.7# | 88    | 0.00     |
| 46 T  | Dibromomethane              | 0.228 | 0.247 | -8.3  | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.418 | 0.463 | -10.8 | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.360 | 0.381 | -5.8  | 83    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 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    | 84    | 0.00     |
| 50 S  | Toluene-d8                  | 1.246 | 1.079 | 13.4   | 75    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.519 | 0.532 | -2.5   | 82    | 0.00     |
| 52 CM | Toluene                     | 0.809 | 0.884 | -9.3#  | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.409 | 0.466 | -13.9  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.458 | 0.527 | -15.1  | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.337 | 0.359 | -6.5   | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.524 | 0.563 | -7.4   | 84    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.545 | 0.583 | -7.0   | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.244 | 0.260 | -6.6   | 82    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.397 | 0.408 | -2.8   | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.366 | 0.415 | -13.4  | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.350 | 0.376 | -7.4   | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.459 | 0.422 | 8.1    | 77    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 82    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.364 | 0.406 | -11.5  | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.040 | 1.121 | -7.8   | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.364 | 0.407 | -11.8  | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.630 | 1.833 | -12.5# | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.658 | 0.739 | -12.3  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 0.651 | 0.726 | -11.5  | 89    | 0.00     |
| 70 T  | Styrene                     | 1.092 | 1.250 | -14.5  | 89    | 0.00     |
| 71 P  | Bromoform                   | 0.326 | 0.377 | -15.6  | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.040 | 3.279 | -7.9   | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 1.350 | 1.339 | 0.8    | 82    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.130 | 1.084 | 4.1    | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.908 | 0.884 | 2.6    | 86    | 0.00     |
| 77 T  | Bromobenzene                | 0.905 | 0.923 | -2.0   | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 3.299 | 3.644 | -10.5  | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.125 | 2.228 | -4.8   | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.532 | 2.781 | -9.8   | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.320 | 0.340 | -6.3   | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.349 | 2.526 | -7.5   | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.779 | 2.929 | -5.4   | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.541 | 2.808 | -10.5  | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.143 | 3.497 | -11.3  | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.745 | 3.098 | -12.9  | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.592 | 1.684 | -5.8   | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.633 | 1.692 | -3.6   | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.113 | 2.442 | -15.6  | 94    | 0.00     |
| 90 T  | Hexachloroethane            | 0.467 | 0.512 | -9.6   | 91    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.629 | 1.701 | -4.4   | 89    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.224 | 0.236 | -5.4   | 85    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.067 | 1.178 | -10.4  | 91    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.539 | 0.589 | -9.3   | 94    | 0.00     |
| 95 T  | Naphthalene                 | 3.289 | 3.513 | -6.8   | 84    | 0.00     |

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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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.125 | 1.215 | -8.0 | 89    | 0.00     |

(#) = Out of Range

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