

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX110722\  
 Data File : VX032615.D  
 Acq On : 07 Nov 2022 10:26  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 08 02:59:28 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 08:28:06 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    | 82    | -0.01    |
| 2 T   | Dichlorodifluoromethane     | 0.577 | 0.571 | 1.0    | 76    | 0.00     |
| 3 P   | Chloromethane               | 0.488 | 0.455 | 6.8    | 74    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.537 | 0.504 | 6.1#   | 73    | 0.00     |
| 5 T   | Bromomethane                | 0.429 | 0.461 | -7.5   | 85    | 0.00     |
| 6 T   | Chloroethane                | 0.360 | 0.374 | -3.9   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.017 | 1.045 | -2.8   | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 0.330 | 0.344 | -4.2   | 87    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.537 | 0.557 | -3.7   | 87    | 0.00     |
| 10 T  | Methyl Iodide               | 0.558 | 0.545 | 2.3    | 75    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.101 | 0.103 | -2.0   | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.501 | 0.485 | 3.2#   | 80    | 0.00     |
| 13 T  | Acrolein                    | 0.101 | 0.134 | -32.7# | 114   | 0.00     |
| 14 T  | Allyl chloride              | 0.799 | 0.841 | -5.3   | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 0.274 | 0.281 | -2.6   | 87    | 0.00     |
| 16 T  | Acetone                     | 0.253 | 0.281 | -11.1  | 99    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.194 | 1.099 | 8.0    | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 0.821 | 0.931 | -13.4  | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.762 | 1.950 | -10.7  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.579 | 0.569 | 1.7    | 86    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.546 | 0.541 | 0.9    | 83    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.729 | 1.867 | -8.0   | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.397 | 1.515 | -8.4   | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.994 | 1.041 | -4.7   | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 0.391 | 0.404 | -3.3   | 88    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.791 | 0.923 | -16.7  | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.631 | 0.668 | -5.9   | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 0.354 | 0.346 | 2.3    | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.249 | 0.253 | -1.6   | 85    | 0.00     |
| 30 C  | Chloroform                  | 1.091 | 1.172 | -7.4#  | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 0.842 | 0.847 | -0.6   | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.979 | 1.061 | -8.4   | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.695 | 0.734 | -5.6   | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 81    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.357 | 0.374 | -4.8   | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.497 | 0.519 | -4.4   | 85    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.517 | 0.525 | -1.5   | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.551 | 0.612 | -11.1  | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.588 | 0.599 | -1.9   | 80    | 0.00     |
| 40 TM | Benzene                     | 1.405 | 1.466 | -4.3   | 85    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.263 | 0.297 | -12.9  | 92    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.575 | 0.642 | -11.7  | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.794 | 0.897 | -13.0  | 91    | 0.00     |
| 44 TM | Trichloroethene             | 0.396 | 0.411 | -3.8   | 86    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.361 | 0.390 | -8.0#  | 89    | 0.00     |
| 46 T  | Dibromomethane              | 0.277 | 0.297 | -7.2   | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.524 | 0.592 | -13.0  | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.410 | 0.452 | -10.2  | 89    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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                 | 0.008 | 0.008 | 0.0   | 79    | 0.01     |
| 50 S  | Toluene-d8                  | 1.240 | 1.280 | -3.2  | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.500 | 0.545 | -9.0  | 88    | 0.00     |
| 52 CM | Toluene                     | 0.917 | 0.976 | -6.4# | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.535 | 0.644 | -20.4 | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.572 | 0.664 | -16.1 | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.386 | 0.422 | -9.3  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.556 | 0.640 | -15.1 | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.624 | 0.679 | -8.8  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.268 | 0.305 | -13.8 | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.371 | 0.403 | -8.6  | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.422 | 0.491 | -16.4 | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.409 | 0.454 | -11.0 | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.484 | 0.535 | -10.5 | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.366 | 0.389 | -6.3  | 87    | 0.00     |
| 65 PM | Chlorobenzene               | 1.120 | 1.202 | -7.3  | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.422 | 0.470 | -11.4 | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.003 | 2.165 | -8.1# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.778 | 0.848 | -9.0  | 88    | 0.00     |
| 69 T  | o-Xylene                    | 0.756 | 0.826 | -9.3  | 88    | 0.00     |
| 70 T  | Styrene                     | 1.257 | 1.393 | -10.8 | 88    | 0.00     |
| 71 P  | Bromoform                   | 0.333 | 0.399 | -19.8 | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.962 | 4.033 | -1.8  | 88    | 0.00     |
| 74 T  | N-amyl acetate              | 1.497 | 1.613 | -7.7  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.272 | 1.286 | -1.1  | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.112 | 1.203 | -8.2  | 92    | 0.00     |
| 77 T  | Bromobenzene                | 0.971 | 0.992 | -2.2  | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 4.565 | 4.635 | -1.5  | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.734 | 2.802 | -2.5  | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.386 | 3.521 | -4.0  | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.350 | 0.401 | -14.6 | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.199 | 3.318 | -3.7  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.381 | 3.472 | -2.7  | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.368 | 3.470 | -3.0  | 87    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.068 | 4.163 | -2.3  | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.452 | 3.571 | -3.4  | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.832 | 1.895 | -3.4  | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.901 | 1.916 | -0.8  | 89    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.003 | 3.095 | -3.1  | 84    | 0.00     |
| 90 T  | Hexachloroethane            | 0.564 | 0.617 | -9.4  | 91    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.807 | 1.893 | -4.8  | 90    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.279 | 0.284 | -1.8  | 85    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.178 | 1.185 | -0.6  | 89    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.492 | 0.494 | -0.4  | 89    | 0.00     |
| 95 T  | Naphthalene                 | 3.925 | 3.957 | -0.8  | 86    | 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 | 1.197 | 1.219 | -1.8 | 90    | 0.00     |

(#) = Out of Range

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