

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112723\  
 Data File : VN080266.D  
 Acq On : 27 Nov 2023 10:43  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 28 02:05:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 17 01:19:32 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   | 85    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.745 | 0.706 | 5.2   | 80    | 0.00     |
| 3 P   | Chloromethane               | 0.560 | 0.465 | 17.0  | 72    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.593 | 0.544 | 8.3#  | 79    | 0.00     |
| 5 T   | Bromomethane                | 0.402 | 0.353 | 12.2  | 79    | 0.00     |
| 6 T   | Chloroethane                | 0.447 | 0.347 | 22.4  | 80    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.236 | 1.192 | 3.6   | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 0.360 | 0.319 | 11.4  | 76    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.565 | 0.538 | 4.8   | 83    | 0.00     |
| 10 T  | Methyl Iodide               | 0.611 | 0.574 | 6.1   | 75    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.091 | 0.081 | 11.0  | 76    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.528 | 0.484 | 8.3#  | 79    | 0.00     |
| 13 T  | Acrolein                    | 0.080 | 0.081 | -1.3  | 93    | 0.00     |
| 14 T  | Allyl chloride              | 0.665 | 0.571 | 14.1  | 72    | 0.00     |
| 15 T  | Acrylonitrile               | 0.244 | 0.216 | 11.5  | 77    | 0.00     |
| 16 T  | Acetone                     | 0.277 | 0.250 | 9.7   | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.578 | 1.272 | 19.4  | 72    | 0.00     |
| 18 T  | Methyl Acetate              | 0.891 | 0.758 | 14.9  | 79    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.866 | 1.788 | 4.2   | 81    | 0.00     |
| 20 T  | Methylene Chloride          | 0.581 | 0.569 | 2.1   | 83    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.581 | 0.551 | 5.2   | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.471 | 1.390 | 5.5   | 79    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.884 | 0.925 | -4.6  | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.071 | 0.986 | 7.9   | 82    | 0.00     |
| 25 T  | 2-Butanone                  | 0.329 | 0.279 | 15.2  | 78    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.063 | 1.033 | 2.8   | 82    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.658 | 0.629 | 4.4   | 83    | 0.00     |
| 28 T  | Bromochloromethane          | 0.421 | 0.405 | 3.8   | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.177 | 0.157 | 11.3  | 74    | 0.00     |
| 30 C  | Chloroform                  | 1.198 | 1.191 | 0.6#  | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 0.898 | 0.724 | 19.4  | 71    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.168 | 1.171 | -0.3  | 85    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.826 | 0.806 | 2.4   | 90    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.369 | 0.381 | -3.3  | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.534 | 0.550 | -3.0  | 82    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.371 | 0.339 | 8.6   | 75    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.678 | 0.718 | -5.9  | 85    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.515 | 0.494 | 4.1   | 72    | 0.00     |
| 40 TM | Benzene                     | 1.518 | 1.512 | 0.4   | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.203 | 0.197 | 3.0   | 77    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.621 | 0.654 | -5.3  | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.721 | 0.593 | 17.8  | 72    | 0.00     |
| 44 TM | Trichloroethene             | 0.398 | 0.406 | -2.0  | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.353 | 0.356 | -0.8# | 82    | 0.00     |
| 46 T  | Dibromomethane              | 0.267 | 0.278 | -4.1  | 85    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.587 | 0.636 | -8.3  | 87    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.372 | 0.368 | 1.1   | 78    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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 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                 | 0.006 | 0.006 | 0.0   | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 1.330 | 1.374 | -3.3  | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.373 | 0.358 | 4.0   | 76    | 0.00     |
| 52 CM | Toluene                     | 0.950 | 0.997 | -4.9# | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.604 | 0.626 | -3.6  | 81    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.617 | 0.653 | -5.8  | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.363 | 0.373 | -2.8  | 85    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.370 | 0.383 | -3.5  | 75    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.633 | 0.652 | -3.0  | 84    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.209 | 0.209 | 0.0   | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.300 | 0.282 | 6.0   | 77    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.434 | 0.482 | -11.1 | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.370 | 0.378 | -2.2  | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.502 | 0.524 | -4.4  | 87    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.382 | 0.473 | -23.8 | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 1.133 | 1.149 | -1.4  | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.440 | 0.489 | -11.1 | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.016 | 2.146 | -6.4# | 84    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.735 | 0.791 | -7.6  | 83    | 0.00     |
| 69 T  | o-Xylene                    | 0.693 | 0.744 | -7.4  | 83    | 0.00     |
| 70 T  | Styrene                     | 1.031 | 1.149 | -11.4 | 85    | 0.00     |
| 71 P  | Bromoform                   | 0.326 | 0.356 | -9.2  | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.885 | 3.928 | -1.1  | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 1.212 | 1.016 | 16.2  | 70    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.163 | 0.972 | 16.4  | 77    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.225 | 1.009 | 17.6  | 73    | 0.00     |
| 77 T  | Bromobenzene                | 0.980 | 0.967 | 1.3   | 86    | 0.00     |
| 78 T  | n-propylbenzene             | 4.345 | 4.387 | -1.0  | 83    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.822 | 2.794 | 1.0   | 84    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.382 | 3.417 | -1.0  | 84    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.363 | 0.389 | -7.2  | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.891 | 2.854 | 1.3   | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.712 | 2.682 | 1.1   | 81    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.330 | 3.465 | -4.1  | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.431 | 3.490 | -1.7  | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.065 | 3.244 | -5.8  | 85    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.765 | 1.710 | 3.1   | 87    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.774 | 1.659 | 6.5   | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.565 | 2.584 | -0.7  | 80    | 0.00     |
| 90 T  | Hexachloroethane            | 0.598 | 0.589 | 1.5   | 85    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.689 | 1.635 | 3.2   | 85    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.270 | 0.239 | 11.5  | 82    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.982 | 0.884 | 10.0  | 81    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.565 | 0.519 | 8.1   | 85    | 0.00     |
| 95 T  | Naphthalene                 | 2.848 | 2.362 | 17.1  | 73    | 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 | 0.921 | 0.833 | 9.6  | 80    | 0.00     |

(#) = Out of Range

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