

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082124\  
 Data File : VN083409.D  
 Acq On : 21 Aug 2024 14:22  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 22 01:46:55 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N080724W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 08 06:30:41 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    | 75    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.567 | 0.524 | 7.6    | 68    | 0.00     |
| 3 P   | Chloromethane               | 0.581 | 0.537 | 7.6    | 68    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.592 | 0.573 | 3.2#   | 72    | 0.00     |
| 5 T   | Bromomethane                | 0.368 | 0.271 | 26.4#  | 57    | -0.05    |
| 6 T   | Chloroethane                | 0.371 | 0.381 | -2.7   | 80    | -0.04    |
| 7 T   | Trichlorofluoromethane      | 0.979 | 1.022 | -4.4   | 77    | -0.02    |
| 8 T   | Diethyl Ether               | 0.364 | 0.357 | 1.9    | 73    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.539 | 0.572 | -6.1   | 78    | -0.01    |
| 10 T  | Methyl Iodide               | 0.710 | 0.684 | 3.7    | 69    | -0.01    |
| 11 T  | Tert butyl alcohol          | 0.148 | 0.114 | 23.0   | 58    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.554 | 0.520 | 6.1#   | 71    | -0.02    |
| 13 T  | Acrolein                    | 0.096 | 0.097 | -1.0   | 71    | -0.01    |
| 14 T  | Allyl chloride              | 1.047 | 0.980 | 6.4    | 78    | -0.01    |
| 15 T  | Acrylonitrile               | 0.304 | 0.287 | 5.6    | 70    | 0.00     |
| 16 T  | Acetone                     | 0.278 | 0.249 | 10.4   | 65    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.622 | 1.227 | 24.4   | 59    | -0.01    |
| 18 T  | Methyl Acetate              | 0.830 | 0.945 | -13.9  | 91    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.001 | 2.028 | -1.3   | 75    | 0.00     |
| 20 T  | Methylene Chloride          | 0.641 | 0.623 | 2.8    | 78    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 0.573 | 0.542 | 5.4    | 70    | -0.02    |
| 22 T  | Diisopropyl ether           | 1.969 | 2.097 | -6.5   | 78    | 0.00     |
| 23 T  | Vinyl Acetate               | 2.018 | 2.037 | -0.9   | 72    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 1.073 | 1.154 | -7.5   | 79    | -0.01    |
| 25 T  | 2-Butanone                  | 0.428 | 0.383 | 10.5   | 67    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.997 | 1.030 | -3.3   | 75    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.691 | 0.690 | 0.1    | 75    | 0.00     |
| 28 T  | Bromochloromethane          | 0.439 | 0.480 | -9.3   | 81    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.276 | 0.253 | 8.3    | 68    | 0.00     |
| 30 C  | Chloroform                  | 1.115 | 1.232 | -10.5# | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 1.055 | 0.935 | 11.4   | 71    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.055 | 1.119 | -6.1   | 78    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.712 | 0.835 | -17.3  | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 75    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.312 | 0.356 | -14.1  | 81    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.472 | 0.466 | 1.3    | 74    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.529 | 0.484 | 8.5    | 73    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.532 | 0.552 | -3.8   | 76    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.580 | 0.553 | 4.7    | 70    | 0.00     |
| 40 TM | Benzene                     | 1.406 | 1.459 | -3.8   | 76    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.301 | 0.277 | 8.0    | 73    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.512 | 0.555 | -8.4   | 80    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.211 | 0.919 | 24.1   | 75    | 0.00     |
| 44 TM | Trichloroethene             | 0.335 | 0.333 | 0.6    | 73    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.334 | 0.363 | -8.7#  | 79    | 0.00     |
| 46 T  | Dibromomethane              | 0.239 | 0.255 | -6.7   | 76    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.537 | 0.575 | -7.1   | 80    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.437 | 0.416 | 4.8    | 74    | 0.00     |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 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                 | 0.008 | 0.007 | 12.5  | 64    | 0.00     |
| 50 S  | Toluene-d8                  | 1.164 | 1.290 | -10.8 | 77    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.500 | 0.487 | 2.6   | 71    | 0.00     |
| 52 CM | Toluene                     | 0.889 | 0.911 | -2.5# | 74    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.551 | 0.570 | -3.4  | 72    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.586 | 0.592 | -1.0  | 74    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.318 | 0.346 | -8.8  | 78    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.600 | 0.594 | 1.0   | 72    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.568 | 0.597 | -5.1  | 76    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.254 | 0.246 | 3.1   | 71    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.387 | 0.353 | 8.8   | 67    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.385 | 0.409 | -6.2  | 75    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.335 | 0.343 | -2.4  | 74    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.454 | 0.505 | -11.2 | 77    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.331 | 0.327 | 1.2   | 72    | 0.00     |
| 65 PM | Chlorobenzene               | 1.105 | 1.124 | -1.7  | 74    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.390 | 0.411 | -5.4  | 77    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.027 | 2.063 | -1.8# | 75    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.759 | 0.771 | -1.6  | 74    | 0.00     |
| 69 T  | o-Xylene                    | 0.749 | 0.751 | -0.3  | 73    | 0.00     |
| 70 T  | Styrene                     | 1.258 | 1.289 | -2.5  | 73    | 0.00     |
| 71 P  | Bromoform                   | 0.295 | 0.302 | -2.4  | 72    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.182 | 3.807 | 9.0   | 75    | 0.00     |
| 74 T  | N-amyl acetate              | 2.046 | 1.645 | 19.6  | 69    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.183 | 1.126 | 4.8   | 80    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.097 | 0.968 | 11.8  | 76    | 0.00     |
| 77 T  | Bromobenzene                | 0.929 | 0.861 | 7.3   | 75    | 0.00     |
| 78 T  | n-propylbenzene             | 4.816 | 4.377 | 9.1   | 74    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.053 | 2.826 | 7.4   | 77    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.501 | 3.224 | 7.9   | 75    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.504 | 0.392 | 22.2  | 66    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.062 | 2.795 | 8.7   | 75    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.101 | 2.867 | 7.5   | 76    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.529 | 3.299 | 6.5   | 75    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.231 | 3.901 | 7.8   | 74    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.493 | 3.280 | 6.1   | 74    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.748 | 1.652 | 5.5   | 78    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.762 | 1.686 | 4.3   | 79    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.027 | 2.832 | 6.4   | 73    | 0.00     |
| 90 T  | Hexachloroethane            | 0.675 | 0.641 | 5.0   | 78    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.692 | 1.667 | 1.5   | 82    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.287 | 0.236 | 17.8  | 70    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.948 | 0.858 | 9.5   | 73    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.421 | 0.366 | 13.1  | 75    | 0.00     |
| 95 T  | Naphthalene                 | 3.357 | 2.903 | 13.5  | 70    | 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 | 0.938 | 0.862 | 8.1  | 75    | 0.00     |

(#) = Out of Range

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