

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010324\  
 Data File : VN080644.D  
 Acq On : 03 Jan 2024 17:07  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 04 02:02:11 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122723W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 28 03:07:01 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    | 76    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.555 | 0.543 | 2.2    | 75    | 0.00     |
| 3 P   | Chloromethane               | 0.808 | 0.757 | 6.3    | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.618 | 0.679 | -9.9#  | 85    | 0.00     |
| 5 T   | Bromomethane                | 0.235 | 0.282 | -20.0  | 99    | 0.00     |
| 6 T   | Chloroethane                | 0.386 | 0.399 | -3.4   | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.883 | 0.878 | 0.6    | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 0.303 | 0.332 | -9.6   | 76    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.482 | 0.493 | -2.3   | 77    | 0.00     |
| 10 T  | Methyl Iodide               | 0.333 | 0.357 | -7.2   | 75    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.086 | 0.075 | 12.8   | 68    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.462 | 0.493 | -6.7#  | 78    | 0.00     |
| 13 T  | Acrolein                    | 0.098 | 0.144 | -46.9# | 105   | 0.00     |
| 14 T  | Allyl chloride              | 0.702 | 0.659 | 6.1    | 74    | 0.00     |
| 15 T  | Acrylonitrile               | 0.246 | 0.232 | 5.7    | 61    | 0.00     |
| 16 T  | Acetone                     | 0.174 | 0.149 | 14.4   | 63    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.243 | 1.169 | 6.0    | 74    | 0.00     |
| 18 T  | Methyl Acetate              | 0.967 | 0.946 | 2.2    | 71    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.664 | 1.725 | -3.7   | 71    | 0.00     |
| 20 T  | Methylene Chloride          | 0.556 | 0.582 | -4.7   | 79    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.558 | 0.532 | 4.7    | 72    | 0.01     |
| 22 T  | Diisopropyl ether           | 1.558 | 1.623 | -4.2   | 67    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.864 | 0.799 | 7.5    | 62    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.044 | 1.015 | 2.8    | 74    | 0.00     |
| 25 T  | 2-Butanone                  | 0.326 | 0.255 | 21.8   | 55    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.909 | 0.900 | 1.0    | 70    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.664 | 0.637 | 4.1    | 68    | 0.00     |
| 28 T  | Bromochloromethane          | 0.486 | 0.418 | 14.0   | 69    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.213 | 0.174 | 18.3   | 59    | 0.00     |
| 30 C  | Chloroform                  | 1.049 | 1.084 | -3.3#  | 84    | 0.00     |
| 31 T  | Cyclohexane                 | 0.868 | 0.736 | 15.2   | 66    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.946 | 0.960 | -1.5   | 79    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.641 | 0.654 | -2.0   | 68    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 70    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.323 | 0.334 | -3.4   | 74    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.498 | 0.470 | 5.6    | 70    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.376 | 0.324 | 13.8   | 60    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.509 | 0.513 | -0.8   | 76    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.408 | 0.427 | -4.7   | 63    | 0.00     |
| 40 TM | Benzene                     | 1.459 | 1.438 | 1.4    | 68    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.232 | 0.206 | 11.2   | 69    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.461 | 0.491 | -6.5   | 74    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.609 | 0.572 | 6.1    | 59    | 0.00     |
| 44 TM | Trichloroethene             | 0.372 | 0.356 | 4.3    | 67    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.338 | 0.364 | -7.7#  | 65    | 0.00     |
| 46 T  | Dibromomethane              | 0.228 | 0.237 | -3.9   | 68    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.477 | 0.523 | -9.6   | 77    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.338 | 0.345 | -2.1   | 61    | 0.00     |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 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                 | 0.005 | 0.005 | 0.0    | 59    | 0.00     |
| 50 S  | Toluene-d8                  | 1.129 | 1.265 | -12.0  | 72    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.346 | 0.342 | 1.2    | 63    | 0.00     |
| 52 CM | Toluene                     | 0.791 | 0.888 | -12.3# | 75    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.481 | 0.540 | -12.3  | 74    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.538 | 0.596 | -10.8  | 74    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.314 | 0.345 | -9.9   | 74    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.307 | 0.365 | -18.9  | 72    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.532 | 0.600 | -12.8  | 75    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.217 | 0.271 | -24.9  | 71    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.261 | 0.245 | 6.1    | 61    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.350 | 0.383 | -9.4   | 74    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.316 | 0.335 | -6.0   | 71    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.380 | 0.448 | -17.9  | 73    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 73    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.334 | 0.336 | -0.6   | 74    | 0.00     |
| 65 PM | Chlorobenzene               | 1.040 | 1.054 | -1.3   | 74    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.400 | 0.408 | -2.0   | 74    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.739 | 1.848 | -6.3#  | 75    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.645 | 0.691 | -7.1   | 73    | 0.00     |
| 69 T  | o-Xylene                    | 0.634 | 0.678 | -6.9   | 74    | 0.00     |
| 70 T  | Styrene                     | 0.922 | 1.040 | -12.8  | 75    | 0.00     |
| 71 P  | Bromoform                   | 0.283 | 0.287 | -1.4   | 73    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 75    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.422 | 3.680 | -7.5   | 74    | 0.00     |
| 74 T  | N-amyl acetate              | 1.207 | 1.152 | 4.6    | 63    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.181 | 1.097 | 7.1    | 70    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.075 | 0.988 | 8.1    | 70    | 0.00     |
| 77 T  | Bromobenzene                | 0.909 | 0.916 | -0.8   | 73    | 0.00     |
| 78 T  | n-propylbenzene             | 3.913 | 4.186 | -7.0   | 74    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.555 | 2.662 | -4.2   | 76    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.890 | 3.114 | -7.8   | 75    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.397 | 0.351 | 11.6   | 60    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.613 | 2.687 | -2.8   | 75    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.415 | 2.494 | -3.3   | 73    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.926 | 3.125 | -6.8   | 74    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.196 | 3.314 | -3.7   | 72    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.766 | 2.919 | -5.5   | 72    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.638 | 1.591 | 2.9    | 73    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.647 | 1.575 | 4.4    | 73    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.388 | 2.456 | -2.8   | 71    | 0.00     |
| 90 T  | Hexachloroethane            | 0.499 | 0.493 | 1.2    | 73    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.581 | 1.527 | 3.4    | 74    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.244 | 0.200 | 18.0   | 65    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.834 | 0.833 | 0.1    | 71    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.430 | 0.415 | 3.5    | 78    | 0.00     |
| 95 T  | Naphthalene                 | 2.596 | 2.534 | 2.4    | 66    | 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 | 0.843 | 0.789 | 6.4  | 70    | 0.00     |

(#) = Out of Range

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