

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN103024\  
 Data File : VN084577.D  
 Acq On : 30 Oct 2024 15:06  
 Operator : JC\MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICSVN103024

Quant Time: Oct 31 18:28:48 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 18:24:48 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   | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.575 | 0.529 | 8.0   | 99    | 0.00     |
| 3 P   | Chloromethane               | 0.952 | 0.614 | 35.5# | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.618 | 0.574 | 7.1#  | 98    | 0.00     |
| 5 T   | Bromomethane                | 0.328 | 0.285 | 13.1  | 99    | -0.05    |
| 6 T   | Chloroethane                | 0.488 | 0.356 | 27.0# | 97    | -0.05    |
| 7 T   | Trichlorofluoromethane      | 1.018 | 0.930 | 8.6   | 100   | -0.02    |
| 8 T   | Diethyl Ether               | 0.359 | 0.335 | 6.7   | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.575 | 0.526 | 8.5   | 97    | -0.01    |
| 10 T  | Methyl Iodide               | 0.769 | 0.716 | 6.9   | 100   | -0.02    |
| 11 T  | Tert butyl alcohol          | 0.095 | 0.084 | 11.6  | 100   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.569 | 0.516 | 9.3#  | 99    | -0.01    |
| 13 T  | Acrolein                    | 0.095 | 0.083 | 12.6  | 97    | 0.00     |
| 14 T  | Allyl chloride              | 0.923 | 0.886 | 4.0   | 100   | -0.01    |
| 15 T  | Acrylonitrile               | 0.276 | 0.261 | 5.4   | 99    | 0.00     |
| 16 T  | Acetone                     | 0.238 | 0.204 | 14.3  | 103   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.753 | 1.497 | 14.6  | 96    | -0.01    |
| 18 T  | Methyl Acetate              | 1.172 | 0.691 | 41.0# | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.745 | 1.696 | 2.8   | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 0.635 | 0.581 | 8.5   | 99    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 0.585 | 0.526 | 10.1  | 96    | -0.01    |
| 22 T  | Diisopropyl ether           | 1.835 | 1.789 | 2.5   | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.265 | 1.253 | 0.9   | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.102 | 1.022 | 7.3   | 99    | -0.01    |
| 25 T  | 2-Butanone                  | 0.337 | 0.320 | 5.0   | 105   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.959 | 0.865 | 9.8   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.683 | 0.631 | 7.6   | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 0.439 | 0.483 | -10.0 | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.224 | 0.220 | 1.8   | 102   | 0.00     |
| 30 C  | Chloroform                  | 1.121 | 1.061 | 5.4#  | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 0.997 | 0.898 | 9.9   | 99    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.021 | 0.955 | 6.5   | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.722 | 0.687 | 4.8   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.338 | 0.322 | 4.7   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.469 | 0.435 | 7.2   | 100   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.426 | 0.410 | 3.8   | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.525 | 0.484 | 7.8   | 98    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.478 | 0.477 | 0.2   | 98    | 0.00     |
| 40 TM | Benzene                     | 1.507 | 1.395 | 7.4   | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.229 | 0.238 | -3.9  | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.488 | 0.460 | 5.7   | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.927 | 0.717 | 22.7  | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.348 | 0.311 | 10.6  | 97    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.354 | 0.334 | 5.6#  | 100   | 0.00     |
| 46 T  | Dibromomethane              | 0.250 | 0.229 | 8.4   | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.526 | 0.490 | 6.8   | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.331 | 0.338 | -2.1  | 102   | 0.00     |

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 ClientSampleId :  
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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                 | 0.006 | 0.006 | 0.0   | 107   | 0.00     |
| 50 S  | Toluene-d8                  | 1.247 | 1.206 | 3.3   | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.406 | 0.410 | -1.0  | 101   | 0.00     |
| 52 CM | Toluene                     | 0.882 | 0.857 | 2.8#  | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.544 | 0.500 | 8.1   | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.576 | 0.540 | 6.2   | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.332 | 0.316 | 4.8   | 100   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.480 | 0.507 | -5.6  | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.570 | 0.544 | 4.6   | 100   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.225 | 0.252 | -12.0 | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.296 | 0.302 | -2.0  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.378 | 0.372 | 1.6   | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.340 | 0.316 | 7.1   | 98    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.466 | 0.445 | 4.5   | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.333 | 0.302 | 9.3   | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 1.119 | 1.004 | 10.3  | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.389 | 0.360 | 7.5   | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.867 | 1.804 | 3.4#  | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.707 | 0.700 | 1.0   | 100   | 0.00     |
| 69 T  | o-Xylene                    | 0.661 | 0.668 | -1.1  | 101   | 0.00     |
| 70 T  | Styrene                     | 1.154 | 1.144 | 0.9   | 99    | 0.00     |
| 71 P  | Bromoform                   | 0.293 | 0.270 | 7.8   | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.504 | 3.438 | 1.9   | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 1.491 | 1.464 | 1.8   | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.170 | 1.031 | 11.9  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.999 | 0.859 | 14.0  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 0.942 | 0.838 | 11.0  | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 4.106 | 4.037 | 1.7   | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.683 | 2.572 | 4.1   | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.904 | 2.946 | -1.4  | 99    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.421 | 0.382 | 9.3   | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.823 | 2.532 | 10.3  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.403 | 2.533 | -5.4  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.997 | 3.000 | -0.1  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.395 | 3.383 | 0.4   | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.784 | 2.872 | -3.2  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.838 | 1.539 | 16.3  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.937 | 1.552 | 19.9  | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.605 | 2.393 | 8.1   | 94    | 0.00     |
| 90 T  | Hexachloroethane            | 0.621 | 0.541 | 12.9  | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.766 | 1.546 | 12.5  | 99    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.237 | 0.216 | 8.9   | 103   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.967 | 0.779 | 19.4  | 93    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.425 | 0.336 | 20.9  | 94    | 0.00     |
| 95 T  | Naphthalene                 | 2.894 | 2.628 | 9.2   | 98    | 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 | 0.939 | 0.762 | 18.8 | 94    | 0.00     |

(#) = Out of Range

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