

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN013123\  
 Data File : VN076474.D  
 Acq On : 31 Jan 2023 09:14  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 01 00:42:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 03:59:22 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    | 110   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.512 | 0.498 | 2.7    | 104   | 0.00     |
| 3 P   | Chloromethane               | 0.531 | 0.658 | -23.9  | 139   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.650 | 0.774 | -19.1# | 132   | 0.00     |
| 5 T   | Bromomethane                | 0.533 | 0.483 | 9.4    | 103   | 0.00     |
| 6 T   | Chloroethane                | 0.488 | 0.478 | 2.0    | 115   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.895 | 0.940 | -5.0   | 118   | 0.00     |
| 8 T   | Diethyl Ether               | 0.300 | 0.317 | -5.7   | 114   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.507 | 0.523 | -3.2   | 116   | 0.00     |
| 10 T  | Methyl Iodide               | 0.774 | 0.765 | 1.2    | 107   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.075 | 0.086 | -14.7  | 126   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.479 | 0.472 | 1.5#   | 109   | 0.00     |
| 13 T  | Acrolein                    | 0.090 | 0.093 | -3.3   | 116   | 0.00     |
| 14 T  | Allyl chloride              | 0.558 | 0.645 | -15.6  | 129   | 0.00     |
| 15 T  | Acrylonitrile               | 0.213 | 0.229 | -7.5   | 117   | 0.00     |
| 16 T  | Acetone                     | 0.195 | 0.187 | 4.1    | 117   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.192 | 1.038 | 12.9   | 96    | 0.00     |
| 18 T  | Methyl Acetate              | 0.608 | 0.657 | -8.1   | 123   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.559 | 1.728 | -10.8  | 119   | 0.00     |
| 20 T  | Methylene Chloride          | 0.645 | 0.569 | 11.8   | 121   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.519 | 0.514 | 1.0    | 112   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.316 | 1.543 | -17.2  | 126   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.851 | 0.979 | -15.0  | 118   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.877 | 0.963 | -9.8   | 122   | 0.00     |
| 25 T  | 2-Butanone                  | 0.274 | 0.286 | -4.4   | 115   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.739 | 0.680 | 8.0    | 97    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.605 | 0.637 | -5.3   | 117   | 0.00     |
| 28 T  | Bromochloromethane          | 0.356 | 0.374 | -5.1   | 114   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.169 | 0.189 | -11.8  | 118   | 0.00     |
| 30 C  | Chloroform                  | 0.971 | 1.109 | -14.2# | 126   | 0.00     |
| 31 T  | Cyclohexane                 | 0.860 | 0.773 | 10.1   | 108   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.886 | 1.002 | -13.1  | 125   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.560 | 0.626 | -11.8  | 124   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 113   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.313 | 0.325 | -3.8   | 120   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.444 | 0.450 | -1.4   | 114   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.391 | 0.367 | 6.1    | 119   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.496 | 0.540 | -8.9   | 122   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.543 | 0.536 | 1.3    | 106   | 0.00     |
| 40 TM | Benzene                     | 1.329 | 1.393 | -4.8   | 118   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.187 | 0.210 | -12.3  | 124   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.455 | 0.514 | -13.0  | 129   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.580 | 0.647 | -11.6  | 122   | 0.00     |
| 44 TM | Trichloroethene             | 0.376 | 0.367 | 2.4    | 115   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.318 | 0.346 | -8.8#  | 124   | 0.00     |
| 46 T  | Dibromomethane              | 0.240 | 0.255 | -6.3   | 121   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.466 | 0.540 | -15.9  | 129   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.275 | 0.307 | -11.6  | 123   | 0.00     |

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 ALS Vial : 1 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                 | 0.006 | 0.006 | 0.0    | 113   | 0.00     |
| 50 S  | Toluene-d8                  | 1.155 | 1.179 | -2.1   | 115   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.340 | 0.390 | -14.7  | 124   | 0.00     |
| 52 CM | Toluene                     | 0.889 | 0.929 | -4.5#  | 119   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.444 | 0.517 | -16.4  | 120   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.511 | 0.561 | -9.8   | 120   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.340 | 0.374 | -10.0  | 128   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.439 | 0.527 | -20.0  | 124   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.552 | 0.608 | -10.1  | 124   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.148 | 0.154 | -4.1   | 108   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.247 | 0.279 | -13.0  | 121   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.358 | 0.428 | -19.6  | 127   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.339 | 0.370 | -9.1   | 120   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.377 | 0.435 | -15.4  | 125   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 115   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.451 | 0.397 | 12.0   | 116   | 0.00     |
| 65 PM | Chlorobenzene               | 1.057 | 1.094 | -3.5   | 121   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.393 | 0.430 | -9.4   | 126   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.809 | 2.006 | -10.9# | 122   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.725 | 0.793 | -9.4   | 122   | 0.00     |
| 69 T  | o-Xylene                    | 0.712 | 0.776 | -9.0   | 120   | 0.00     |
| 70 T  | Styrene                     | 1.137 | 1.299 | -14.2  | 123   | 0.00     |
| 71 P  | Bromoform                   | 0.284 | 0.330 | -16.2  | 124   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 115   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.868 | 4.097 | -5.9   | 124   | 0.00     |
| 74 T  | N-amyl acetate              | 1.113 | 1.220 | -9.6   | 123   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.112 | 1.141 | -2.6   | 124   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.034 | 0.895 | 13.4   | 112   | 0.00     |
| 77 T  | Bromobenzene                | 0.994 | 0.946 | 4.8    | 122   | 0.00     |
| 78 T  | n-propylbenzene             | 4.364 | 4.665 | -6.9   | 123   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.678 | 2.778 | -3.7   | 125   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.240 | 3.522 | -8.7   | 125   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.301 | 0.307 | -2.0   | 110   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.678 | 2.778 | -3.7   | 125   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.882 | 3.090 | -7.2   | 125   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.249 | 3.526 | -8.5   | 125   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.999 | 4.389 | -9.8   | 124   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.289 | 3.714 | -12.9  | 124   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.823 | 1.825 | -0.1   | 122   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.842 | 1.777 | 3.5    | 120   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.611 | 2.899 | -11.0  | 119   | 0.00     |
| 90 T  | Hexachloroethane            | 0.568 | 0.634 | -11.6  | 124   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.816 | 1.764 | 2.9    | 118   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.193 | 0.200 | -3.6   | 111   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.870 | 0.847 | 2.6    | 111   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.482 | 0.427 | 11.4   | 103   | 0.00     |
| 95 T  | Naphthalene                 | 2.543 | 2.360 | 7.2    | 107   | 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 | 0.823 | 0.790 | 4.0  | 109   | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6