

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042023\  
 Data File : VN077415.D  
 Acq On : 20 Apr 2023 21:13  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 21 02:42:48 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N040523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 06 08:27:03 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    | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.638 | 0.770 | -20.7  | 108   | 0.00     |
| 3 P   | Chloromethane               | 0.791 | 0.579 | 26.8#  | 70    | 0.00     |
| 4 C   | Vinyl Chloride              | 1.072 | 0.822 | 23.3#  | 68    | 0.00     |
| 5 T   | Bromomethane                | 0.777 | 0.627 | 19.3   | 78    | 0.00     |
| 6 T   | Chloroethane                | 0.765 | 0.528 | 31.0#  | 65    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.930 | 1.154 | -24.1  | 112   | 0.00     |
| 8 T   | Diethyl Ether               | 0.390 | 0.434 | -11.3  | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.569 | 0.645 | -13.4  | 106   | 0.00     |
| 10 T  | Methyl Iodide               | 0.692 | 0.858 | -24.0  | 105   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.139 | 0.104 | 25.2#  | 65    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.586 | 0.646 | -10.2# | 103   | 0.00     |
| 13 T  | Acrolein                    | 0.132 | 0.108 | 18.2   | 80    | 0.00     |
| 14 T  | Allyl chloride              | 0.885 | 0.724 | 18.2   | 78    | 0.00     |
| 15 T  | Acrylonitrile               | 0.308 | 0.266 | 13.6   | 74    | 0.00     |
| 16 T  | Acetone                     | 0.252 | 0.194 | 23.0   | 70    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.579 | 1.581 | -0.1   | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 0.960 | 0.876 | 8.7    | 80    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.078 | 2.232 | -7.4   | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.712 | 0.734 | -3.1   | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.641 | 0.701 | -9.4   | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.774 | 1.698 | 4.3    | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.199 | 1.071 | 10.7   | 74    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.145 | 1.171 | -2.3   | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 0.409 | 0.307 | 24.9   | 67    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.050 | 1.034 | 1.5    | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.783 | 0.847 | -8.2   | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 0.461 | 0.393 | 14.8   | 87    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.263 | 0.204 | 22.4   | 67    | 0.00     |
| 30 C  | Chloroform                  | 1.221 | 1.336 | -9.4#  | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 1.062 | 0.979 | 7.8    | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.111 | 1.250 | -12.5  | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.683 | 0.684 | -0.1   | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.320 | 0.320 | 0.0    | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.473 | 0.509 | -7.6   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.424 | 0.375 | 11.6   | 75    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.485 | 0.562 | -15.9  | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.638 | 0.674 | -5.6   | 91    | 0.00     |
| 40 TM | Benzene                     | 1.477 | 1.569 | -6.2   | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.228 | 0.185 | 18.9   | 69    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.454 | 0.528 | -16.3  | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.782 | 0.679 | 13.2   | 75    | 0.00     |
| 44 TM | Trichloroethene             | 0.353 | 0.409 | -15.9  | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.351 | 0.368 | -4.8#  | 89    | 0.00     |
| 46 T  | Dibromomethane              | 0.264 | 0.286 | -8.3   | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.528 | 0.580 | -9.8   | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.333 | 0.299 | 10.2   | 76    | 0.00     |

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 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   | 77    | 0.00     |
| 50 S  | Toluene-d8                  | 1.289 | 1.215 | 5.7    | 82    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.452 | 0.381 | 15.7   | 69    | 0.00     |
| 52 CM | Toluene                     | 0.967 | 1.073 | -11.0# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.573 | 0.624 | -8.9   | 88    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.611 | 0.659 | -7.9   | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.379 | 0.414 | -9.2   | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.591 | 0.597 | -1.0   | 83    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.627 | 0.677 | -8.0   | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.176 | 0.193 | -9.7   | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.337 | 0.272 | 19.3   | 67    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.391 | 0.454 | -16.1  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.379 | 0.426 | -12.4  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.429 | 0.432 | -0.7   | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 85    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.309 | 0.342 | -10.7  | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 1.101 | 1.251 | -13.6  | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.417 | 0.440 | -5.5   | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.031 | 2.261 | -11.3# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.798 | 0.879 | -10.2  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 0.787 | 0.876 | -11.3  | 91    | 0.00     |
| 70 T  | Styrene                     | 1.267 | 1.380 | -8.9   | 87    | 0.00     |
| 71 P  | Bromoform                   | 0.293 | 0.310 | -5.8   | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 83    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.856 | 5.082 | -4.7   | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 1.840 | 1.513 | 17.8   | 72    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.524 | 1.439 | 5.6    | 84    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.191 | 1.220 | -2.4   | 82    | 0.00     |
| 77 T  | Bromobenzene                | 0.987 | 1.068 | -8.2   | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 5.366 | 5.777 | -7.7   | 90    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.231 | 3.439 | -6.4   | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.879 | 4.191 | -8.0   | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.529 | 0.442 | 16.4   | 71    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.046 | 3.288 | -7.9   | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.453 | 3.641 | -5.4   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.832 | 4.214 | -10.0  | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.812 | 5.248 | -9.1   | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.782 | 4.192 | -10.8  | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.827 | 1.999 | -9.4   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.802 | 2.015 | -11.8  | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.139 | 3.571 | -13.8  | 88    | 0.00     |
| 90 T  | Hexachloroethane            | 0.827 | 0.839 | -1.5   | 88    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.828 | 2.042 | -11.7  | 92    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.289 | 0.267 | 7.6    | 78    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.660 | 0.782 | -18.5  | 79    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.382 | 0.403 | -5.5   | 92    | 0.00     |
| 95 T  | Naphthalene                 | 2.478 | 3.183 | -28.5# | 84    | 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 | 0.631 | 0.722 | -14.4 | 77    | 0.00     |

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