

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN013122\  
 Data File : VN070866.D  
 Acq On : 31 Jan 2022 21:12  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 01 05:04:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011822W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 18 13:32:07 2022  
 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   | 108   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.578 | 0.406 | 29.8# | 78    | 0.00     |
| 3 P   | Chloromethane               | 0.845 | 0.576 | 31.8# | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.803 | 0.571 | 28.9# | 78    | 0.00     |
| 5 T   | Bromomethane                | 0.418 | 0.249 | 40.4# | 65    | 0.00     |
| 6 T   | Chloroethane                | 0.501 | 0.251 | 49.9# | 57    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.918 | 0.587 | 36.1# | 71    | 0.00     |
| 8 T   | Diethyl Ether               | 0.401 | 0.340 | 15.2  | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.555 | 0.451 | 18.7  | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 0.715 | 0.632 | 11.6  | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.129 | 0.100 | 22.5  | 87    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.553 | 0.450 | 18.6# | 93    | 0.00     |
| 13 T  | Acrolein                    | 0.185 | 0.179 | 3.2   | 113   | 0.00     |
| 14 T  | Allyl chloride              | 1.205 | 1.031 | 14.4  | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 0.411 | 0.350 | 14.8  | 90    | 0.00     |
| 16 T  | Acetone                     | 0.497 | 0.301 | 39.4# | 65    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.502 | 1.112 | 26.0# | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 0.978 | 0.825 | 15.6  | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.976 | 1.805 | 8.7   | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 0.655 | 0.553 | 15.6  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.557 | 0.474 | 14.9  | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.389 | 2.100 | 12.1  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 2.025 | 1.816 | 10.3  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.195 | 1.040 | 13.0  | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.626 | 0.480 | 23.3  | 80    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.916 | 0.794 | 13.3  | 93    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.661 | 0.590 | 10.7  | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 0.536 | 0.445 | 17.0  | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.383 | 0.319 | 16.7  | 87    | 0.00     |
| 30 C  | Chloroform                  | 1.342 | 0.990 | 26.2# | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 1.262 | 0.982 | 22.2  | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.927 | 0.827 | 10.8  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.717 | 0.665 | 7.3   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.310 | 0.301 | 2.9   | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.522 | 0.446 | 14.6  | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.693 | 0.578 | 16.6  | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.464 | 0.406 | 12.5  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.645 | 0.538 | 16.6  | 88    | 0.00     |
| 40 TM | Benzene                     | 1.618 | 1.385 | 14.4  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.353 | 0.309 | 12.5  | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.561 | 0.483 | 13.9  | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.059 | 0.953 | 10.0  | 96    | 0.00     |
| 44 TM | Trichloroethene             | 0.367 | 0.323 | 12.0  | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.440 | 0.387 | 12.0# | 96    | 0.00     |
| 46 T  | Dibromomethane              | 0.256 | 0.229 | 10.5  | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.523 | 0.463 | 11.5  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.504 | 0.429 | 14.9  | 87    | 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.006 | 25.0   | 81    | 0.00     |
| 50 S  | Toluene-d8                  | 1.307 | 1.216 | 7.0    | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.676 | 0.596 | 11.8   | 92    | 0.00     |
| 52 CM | Toluene                     | 0.968 | 0.851 | 12.1#  | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.561 | 0.520 | 7.3    | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.627 | 0.573 | 8.6    | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.380 | 0.339 | 10.8   | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.639 | 0.591 | 7.5    | 95    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.673 | 0.603 | 10.4   | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.151 | 0.156 | -3.3   | 103   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.491 | 0.417 | 15.1   | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.355 | 0.332 | 6.5    | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.382 | 0.345 | 9.7    | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.466 | 0.435 | 6.7    | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 107   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.367 | 0.296 | 19.3   | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 1.083 | 0.975 | 10.0   | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.373 | 0.350 | 6.2    | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.008 | 1.835 | 8.6#   | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.731 | 0.669 | 8.5    | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.725 | 0.677 | 6.6    | 96    | 0.00     |
| 70 T  | Styrene                     | 1.160 | 1.104 | 4.8    | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.282 | 0.269 | 4.6    | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.730 | 4.166 | 11.9   | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 1.934 | 1.782 | 7.9    | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.598 | 1.349 | 15.6   | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.326 | 1.143 | 13.8   | 98    | 0.00     |
| 77 T  | Bromobenzene                | 1.061 | 0.960 | 9.5    | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 5.290 | 4.758 | 10.1   | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.346 | 2.912 | 13.0   | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.825 | 3.424 | 10.5   | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.445 | 0.398 | 10.6   | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.127 | 2.761 | 11.7   | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.330 | 2.962 | 11.1   | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.677 | 3.399 | 7.6    | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.527 | 4.129 | 8.8    | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.556 | 3.295 | 7.3    | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.764 | 1.584 | 10.2   | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.756 | 1.530 | 12.9   | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.934 | 2.802 | 4.5    | 96    | 0.00     |
| 90 T  | Hexachloroethane            | 0.622 | 0.566 | 9.0    | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.743 | 1.525 | 12.5   | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.271 | 0.233 | 14.0   | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.774 | 0.794 | -2.6   | 98    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.516 | 0.468 | 9.3    | 95    | 0.00     |
| 95 T  | Naphthalene                 | 2.001 | 2.515 | -25.7# | 115   | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.738 | 0.761 | -3.1 | 96    | 0.00     |

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