

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN012921\  
 Data File : VN065668.D  
 Acq On : 29 Jan 2021 10:24  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 30 00:59:36 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N012521W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jan 25 13:47:28 2021  
 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   | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.560 | 0.559 | 0.2   | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.823 | 0.797 | 3.2   | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.833 | 0.799 | 4.1#  | 91    | 0.00     |
| 5 T   | Bromomethane                | 0.482 | 0.479 | 0.6   | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.482 | 0.468 | 2.9   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.871 | 0.861 | 1.1   | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 0.415 | 0.402 | 3.1   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.529 | 0.540 | -2.1  | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 0.775 | 0.772 | 0.4   | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.123 | 0.108 | 12.2  | 82    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.609 | 0.552 | 9.4#  | 91    | 0.00     |
| 13 T  | Acrolein                    | 0.095 | 0.088 | 7.4   | 80    | 0.00     |
| 14 T  | Allyl chloride              | 1.128 | 1.092 | 3.2   | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 0.321 | 0.309 | 3.7   | 90    | 0.00     |
| 16 T  | Acetone                     | 0.256 | 0.268 | -4.7  | 101   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.916 | 1.636 | 14.6  | 88    | 0.00     |
| 18 T  | Methyl Acetate              | 0.718 | 0.686 | 4.5   | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.032 | 1.932 | 4.9   | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 0.709 | 0.657 | 7.3   | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.647 | 0.597 | 7.7   | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.307 | 2.258 | 2.1   | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.842 | 1.792 | 2.7   | 90    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.229 | 1.215 | 1.1   | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.402 | 0.406 | -1.0  | 92    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.984 | 0.938 | 4.7   | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.741 | 0.716 | 3.4   | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.517 | 0.487 | 5.8   | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.291 | 0.267 | 8.2   | 89    | 0.00     |
| 30 C  | Chloroform                  | 1.132 | 1.099 | 2.9#  | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 1.237 | 1.112 | 10.1  | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.922 | 0.870 | 5.6   | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.658 | 0.605 | 8.1   | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.296 | 0.297 | -0.3  | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.503 | 0.499 | 0.8   | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.483 | 0.478 | 1.0   | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.414 | 0.403 | 2.7   | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.614 | 0.586 | 4.6   | 90    | 0.00     |
| 40 TM | Benzene                     | 1.537 | 1.539 | -0.1  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.259 | 0.240 | 7.3   | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.463 | 0.467 | -0.9  | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.856 | 0.808 | 5.6   | 89    | 0.00     |
| 44 TM | Trichloroethene             | 0.373 | 0.374 | -0.3  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.423 | 0.425 | -0.5# | 93    | 0.00     |
| 46 T  | Dibromomethane              | 0.234 | 0.233 | 0.4   | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.501 | 0.491 | 2.0   | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.406 | 0.385 | 5.2   | 88    | 0.00     |

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 LabSampleId :  
 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                 | 0.007 | 0.007 | 0.0   | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 1.165 | 1.140 | 2.1   | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.472 | 0.463 | 1.9   | 90    | 0.00     |
| 52 CM | Toluene                     | 0.910 | 0.920 | -1.1# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.583 | 0.581 | 0.3   | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.650 | 0.657 | -1.1  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.347 | 0.357 | -2.9  | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.574 | 0.575 | -0.2  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.611 | 0.627 | -2.6  | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.265 | 0.244 | 7.9   | 85    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.328 | 0.329 | -0.3  | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.355 | 0.357 | -0.6  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.346 | 0.349 | -0.9  | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.419 | 0.422 | -0.7  | 100   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.419 | 0.409 | 2.4   | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.046 | 1.071 | -2.4  | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.370 | 0.373 | -0.8  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.965 | 1.948 | 0.9#  | 94    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.711 | 0.717 | -0.8  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.689 | 0.701 | -1.7  | 96    | 0.00     |
| 70 T  | Styrene                     | 1.135 | 1.172 | -3.3  | 94    | 0.00     |
| 71 P  | Bromoform                   | 0.256 | 0.251 | 2.0   | 89    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.378 | 4.084 | 6.7   | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.852 | 1.746 | 5.7   | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.293 | 1.201 | 7.1   | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.307 | 1.149 | 12.1  | 90    | 0.00     |
| 77 T  | Bromobenzene                | 0.948 | 0.920 | 3.0   | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 5.159 | 4.803 | 6.9   | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.064 | 2.843 | 7.2   | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.727 | 3.458 | 7.2   | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.510 | 0.447 | 12.4  | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.128 | 2.954 | 5.6   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.108 | 2.860 | 8.0   | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.718 | 3.456 | 7.0   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.196 | 3.800 | 9.4   | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.705 | 3.440 | 7.2   | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.690 | 1.661 | 1.7   | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.715 | 1.652 | 3.7   | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.329 | 3.080 | 7.5   | 92    | 0.00     |
| 90 T  | Hexachloroethane            | 0.648 | 0.579 | 10.6  | 88    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.676 | 1.651 | 1.5   | 99    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.257 | 0.235 | 8.6   | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.891 | 0.945 | -6.1  | 97    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.461 | 0.394 | 14.5  | 96    | 0.00     |
| 95 T  | Naphthalene                 | 2.867 | 2.901 | -1.2  | 95    | 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 | 0.922 | 0.908 | 1.5  | 96    | 0.00     |

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