

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010821\  
 Data File : VN065437.D  
 Acq On : 8 Jan 2021 12:14  
 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 08 22:44:35 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122220W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 22 15:42:18 2020  
 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   | 135   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.463 | 0.393 | 15.1  | 108   | 0.00     |
| 3 P   | Chloromethane               | 0.527 | 0.445 | 15.6  | 110   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.548 | 0.484 | 11.7# | 113   | 0.00     |
| 5 T   | Bromomethane                | 0.389 | 0.366 | 5.9   | 124   | 0.00     |
| 6 T   | Chloroethane                | 0.354 | 0.323 | 8.8   | 117   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.820 | 0.765 | 6.7   | 122   | 0.00     |
| 8 T   | Diethyl Ether               | 0.323 | 0.294 | 9.0   | 123   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.460 | 0.447 | 2.8   | 129   | 0.00     |
| 10 T  | Methyl Iodide               | 0.694 | 0.689 | 0.7   | 126   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.092 | 0.078 | 15.2  | 110   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.491 | 0.441 | 10.2# | 122   | 0.00     |
| 13 T  | Acrolein                    | 0.065 | 0.059 | 9.2   | 124   | 0.00     |
| 14 T  | Allyl chloride              | 0.810 | 0.694 | 14.3  | 113   | 0.00     |
| 15 T  | Acrylonitrile               | 0.223 | 0.208 | 6.7   | 120   | 0.00     |
| 16 T  | Acetone                     | 0.260 | 0.239 | 8.1   | 132   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.257 | 0.976 | 22.4  | 100   | 0.00     |
| 18 T  | Methyl Acetate              | 0.507 | 0.503 | 0.8   | 130   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.560 | 1.448 | 7.2   | 123   | 0.00     |
| 20 T  | Methylene Chloride          | 0.551 | 0.486 | 11.8  | 126   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.482 | 0.451 | 6.4   | 123   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.611 | 1.489 | 7.6   | 124   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.358 | 1.228 | 9.6   | 117   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.884 | 0.835 | 5.5   | 123   | 0.00     |
| 25 T  | 2-Butanone                  | 0.317 | 0.298 | 6.0   | 122   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.844 | 0.760 | 10.0  | 121   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.561 | 0.550 | 2.0   | 129   | 0.00     |
| 28 T  | Bromochloromethane          | 0.379 | 0.352 | 7.1   | 126   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.205 | 0.180 | 12.2  | 116   | 0.00     |
| 30 C  | Chloroform                  | 0.910 | 0.889 | 2.3#  | 129   | 0.00     |
| 31 T  | Cyclohexane                 | 0.833 | 0.687 | 17.5  | 114   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.824 | 0.782 | 5.1   | 125   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.564 | 0.521 | 7.6   | 123   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 128   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.302 | 0.310 | -2.6  | 130   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.455 | 0.450 | 1.1   | 125   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.451 | 0.423 | 6.2   | 117   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.477 | 0.474 | 0.6   | 125   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.546 | 0.521 | 4.6   | 118   | 0.00     |
| 40 TM | Benzene                     | 1.352 | 1.360 | -0.6  | 128   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.234 | 0.216 | 7.7   | 122   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.500 | 0.492 | 1.6   | 126   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.777 | 0.716 | 7.9   | 114   | 0.00     |
| 44 TM | Trichloroethene             | 0.390 | 0.412 | -5.6  | 133   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.352 | 0.355 | -0.9# | 127   | 0.00     |
| 46 T  | Dibromomethane              | 0.239 | 0.246 | -2.9  | 131   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.503 | 0.501 | 0.4   | 125   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.377 | 0.355 | 5.8   | 119   | 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%

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|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.006 | 0.0   | 128   | 0.00     |
| 50 S  | Toluene-d8                  | 1.131 | 1.162 | -2.7  | 131   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.437 | 0.419 | 4.1   | 119   | 0.00     |
| 52 CM | Toluene                     | 0.852 | 0.873 | -2.5# | 129   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.567 | 0.560 | 1.2   | 124   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.603 | 0.594 | 1.5   | 125   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.337 | 0.353 | -4.7  | 131   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.522 | 0.523 | -0.2  | 125   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.557 | 0.584 | -4.8  | 131   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.227 | 0.215 | 5.3   | 121   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.321 | 0.314 | 2.2   | 119   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.402 | 0.412 | -2.5  | 128   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.362 | 0.377 | -4.1  | 131   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.424 | 0.434 | -2.4  | 131   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 128   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.486 | 0.498 | -2.5  | 135   | 0.00     |
| 65 PM | Chlorobenzene               | 1.018 | 1.085 | -6.6  | 135   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.396 | 0.423 | -6.8  | 134   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.834 | 1.872 | -2.1# | 130   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.691 | 0.717 | -3.8  | 131   | 0.00     |
| 69 T  | o-Xylene                    | 0.671 | 0.694 | -3.4  | 131   | 0.00     |
| 70 T  | Styrene                     | 1.119 | 1.188 | -6.2  | 132   | 0.00     |
| 71 P  | Bromoform                   | 0.341 | 0.348 | -2.1  | 127   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 132   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.808 | 3.686 | 3.2   | 132   | 0.00     |
| 74 T  | N-amyl acetate              | 1.516 | 1.361 | 10.2  | 116   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.027 | 1.011 | 1.6   | 133   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.020 | 0.976 | 4.3   | 135   | 0.00     |
| 77 T  | Bromobenzene                | 0.995 | 1.021 | -2.6  | 138   | 0.00     |
| 78 T  | n-propylbenzene             | 4.299 | 4.127 | 4.0   | 129   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.532 | 2.473 | 2.3   | 131   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.247 | 3.128 | 3.7   | 131   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.405 | 0.362 | 10.6  | 117   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.607 | 2.542 | 2.5   | 131   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.767 | 2.711 | 2.0   | 133   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.162 | 3.163 | -0.0  | 134   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.671 | 3.521 | 4.1   | 130   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.365 | 3.280 | 2.5   | 131   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.664 | 1.757 | -5.6  | 140   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.671 | 1.741 | -4.2  | 138   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.876 | 2.685 | 6.6   | 123   | 0.00     |
| 90 T  | Hexachloroethane            | 0.579 | 0.564 | 2.6   | 126   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.598 | 1.711 | -7.1  | 139   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.212 | 0.196 | 7.5   | 118   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.806 | 0.990 | -22.8 | 138   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.631 | 0.592 | 6.2   | 131   | 0.00     |
| 95 T  | Naphthalene                 | 2.105 | 2.379 | -13.0 | 130   | 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 | 0.764 | 0.914 | -19.6 | 141   | 0.02     |

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