

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011223\  
 Data File : VN076218.D  
 Acq On : 12 Jan 2023 09:52  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 13 01:53:28 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 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   | 129   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.355 | 0.437 | -23.1 | 159#  | 0.00     |
| 3 P   | Chloromethane               | 0.441 | 0.412 | 6.6   | 127   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.527 | 0.521 | 1.1#  | 129   | 0.00     |
| 5 T   | Bromomethane                | 0.448 | 0.412 | 8.0   | 119   | 0.00     |
| 6 T   | Chloroethane                | 0.390 | 0.370 | 5.1   | 125   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.799 | 0.790 | 1.1   | 126   | 0.00     |
| 8 T   | Diethyl Ether               | 0.292 | 0.282 | 3.4   | 120   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.456 | 0.457 | -0.2  | 127   | 0.00     |
| 10 T  | Methyl Iodide               | 0.740 | 0.700 | 5.4   | 118   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.077 | 0.063 | 18.2  | 103   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.443 | 0.429 | 3.2#  | 123   | 0.00     |
| 13 T  | Acrolein                    | 0.094 | 0.061 | 35.1# | 82    | 0.00     |
| 14 T  | Allyl chloride              | 0.518 | 0.481 | 7.1   | 108   | 0.00     |
| 15 T  | Acrylonitrile               | 0.210 | 0.188 | 10.5  | 115   | 0.00     |
| 16 T  | Acetone                     | 0.188 | 0.169 | 10.1  | 123   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.073 | 0.944 | 12.0  | 113   | 0.00     |
| 18 T  | Methyl Acetate              | 0.554 | 0.526 | 5.1   | 123   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.459 | 1.459 | 0.0   | 121   | 0.00     |
| 20 T  | Methylene Chloride          | 0.577 | 0.477 | 17.3  | 120   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.485 | 0.452 | 6.8   | 119   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.258 | 1.238 | 1.6   | 120   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.847 | 0.798 | 5.8   | 112   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.839 | 0.792 | 5.6   | 121   | 0.00     |
| 25 T  | 2-Butanone                  | 0.263 | 0.239 | 9.1   | 115   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.711 | 0.701 | 1.4   | 122   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.580 | 0.553 | 4.7   | 118   | 0.00     |
| 28 T  | Bromochloromethane          | 0.368 | 0.303 | 17.7  | 107   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.165 | 0.151 | 8.5   | 112   | 0.00     |
| 30 C  | Chloroform                  | 0.945 | 0.878 | 7.1#  | 118   | 0.00     |
| 31 T  | Cyclohexane                 | 0.779 | 0.689 | 11.6  | 121   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.838 | 0.805 | 3.9   | 118   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.544 | 0.477 | 12.3  | 110   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 124   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.310 | 0.290 | 6.5   | 115   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.411 | 0.413 | -0.5  | 119   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.330 | 0.305 | 7.6   | 113   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.460 | 0.469 | -2.0  | 120   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.496 | 0.529 | -6.7  | 120   | 0.00     |
| 40 TM | Benzene                     | 1.269 | 1.246 | 1.8   | 119   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.172 | 0.164 | 4.7   | 108   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.422 | 0.415 | 1.7   | 118   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.545 | 0.534 | 2.0   | 113   | 0.00     |
| 44 TM | Trichloroethene             | 0.358 | 0.346 | 3.4   | 123   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.309 | 0.297 | 3.9#  | 117   | 0.00     |
| 46 T  | Dibromomethane              | 0.229 | 0.219 | 4.4   | 114   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.449 | 0.445 | 0.9   | 117   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.245 | 0.250 | -2.0  | 114   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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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                 | 0.006 | 0.006 | 0.0   | 106   | 0.00     |
| 50 S  | Toluene-d8                  | 1.158 | 1.035 | 10.6  | 107   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.330 | 0.318 | 3.6   | 110   | 0.00     |
| 52 CM | Toluene                     | 0.827 | 0.817 | 1.2#  | 115   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.440 | 0.449 | -2.0  | 113   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.483 | 0.502 | -3.9  | 118   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.324 | 0.321 | 0.9   | 117   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.431 | 0.440 | -2.1  | 112   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.532 | 0.521 | 2.1   | 116   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.137 | 0.123 | 10.2  | 102   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.240 | 0.232 | 3.3   | 109   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.361 | 0.364 | -0.8  | 115   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.328 | 0.324 | 1.2   | 113   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.383 | 0.371 | 3.1   | 111   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 124   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.352 | 0.373 | -6.0  | 136   | 0.00     |
| 65 PM | Chlorobenzene               | 1.026 | 0.988 | 3.7   | 118   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.380 | 0.376 | 1.1   | 117   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.732 | 1.744 | -0.7# | 116   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.686 | 0.708 | -3.2  | 118   | 0.00     |
| 69 T  | o-Xylene                    | 0.678 | 0.685 | -1.0  | 115   | 0.00     |
| 70 T  | Styrene                     | 1.079 | 1.139 | -5.6  | 116   | 0.00     |
| 71 P  | Bromoform                   | 0.277 | 0.288 | -4.0  | 115   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 123   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.613 | 3.589 | 0.7   | 117   | 0.00     |
| 74 T  | N-amyl acetate              | 1.060 | 1.017 | 4.1   | 108   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.117 | 0.950 | 15.0  | 110   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.008 | 0.854 | 15.3  | 103   | 0.00     |
| 77 T  | Bromobenzene                | 0.914 | 0.855 | 6.5   | 117   | 0.00     |
| 78 T  | n-propylbenzene             | 3.985 | 4.130 | -3.6  | 119   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.488 | 2.385 | 4.1   | 117   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.024 | 3.067 | -1.4  | 119   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.280 | 0.274 | 2.1   | 109   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.488 | 2.385 | 4.1   | 117   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.666 | 2.712 | -1.7  | 118   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.000 | 3.072 | -2.4  | 118   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.680 | 3.874 | -5.3  | 119   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.062 | 3.326 | -8.6  | 119   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.689 | 1.657 | 1.9   | 119   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.726 | 1.645 | 4.7   | 119   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.481 | 2.724 | -9.8  | 118   | 0.00     |
| 90 T  | Hexachloroethane            | 0.548 | 0.567 | -3.5  | 116   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.664 | 1.611 | 3.2   | 117   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.198 | 0.164 | 17.2  | 104   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.824 | 0.836 | -1.5  | 114   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.449 | 0.449 | 0.0   | 116   | 0.00     |
| 95 T  | Naphthalene                 | 2.277 | 2.274 | 0.1   | 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 | 0.770 | 0.794 | -3.1 | 113   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6