

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021623\  
 Data File : VN076727.D  
 Acq On : 16 Feb 2023 21:29  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 17 00:20:57 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021323W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 14 01:44:47 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   | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.531 | 0.451 | 15.1  | 84    | 0.00     |
| 3 P   | Chloromethane               | 0.693 | 0.559 | 19.3  | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.682 | 0.611 | 10.4# | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.413 | 0.362 | 12.3  | 104   | -0.01    |
| 6 T   | Chloroethane                | 0.431 | 0.434 | -0.7  | 105   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.928 | 0.758 | 18.3  | 89    | 0.00     |
| 8 T   | Diethyl Ether               | 0.357 | 0.325 | 9.0   | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.545 | 0.444 | 18.5  | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 0.673 | 0.629 | 6.5   | 85    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.091 | 0.092 | -1.1  | 107   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.516 | 0.434 | 15.9# | 92    | 0.00     |
| 13 T  | Acrolein                    | 0.137 | 0.137 | 0.0   | 105   | 0.00     |
| 14 T  | Allyl chloride              | 0.894 | 0.803 | 10.2  | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 0.323 | 0.313 | 3.1   | 102   | 0.00     |
| 16 T  | Acetone                     | 0.308 | 0.251 | 18.5  | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.363 | 1.054 | 22.7  | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 1.007 | 0.993 | 1.4   | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.740 | 1.713 | 1.6   | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 0.646 | 0.553 | 14.4  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.581 | 0.497 | 14.5  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.097 | 2.068 | 1.4   | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.241 | 1.362 | -9.8  | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.149 | 1.007 | 12.4  | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.455 | 0.432 | 5.1   | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.829 | 0.707 | 14.7  | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.689 | 0.612 | 11.2  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.547 | 0.502 | 8.2   | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.297 | 0.299 | -0.7  | 103   | 0.00     |
| 30 C  | Chloroform                  | 1.148 | 1.078 | 6.1#  | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 1.083 | 0.920 | 15.1  | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.966 | 0.890 | 7.9   | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.690 | 0.693 | -0.4  | 108   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 106   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.327 | 0.310 | 5.2   | 106   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.473 | 0.413 | 12.7  | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.498 | 0.505 | -1.4  | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.477 | 0.420 | 11.9  | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.538 | 0.503 | 6.5   | 94    | 0.00     |
| 40 TM | Benzene                     | 1.453 | 1.349 | 7.2   | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.288 | 0.283 | 1.7   | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.507 | 0.461 | 9.1   | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.810 | 0.928 | -14.6 | 115   | 0.00     |
| 44 TM | Trichloroethene             | 0.343 | 0.310 | 9.6   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.385 | 0.354 | 8.1#  | 99    | 0.00     |
| 46 T  | Dibromomethane              | 0.246 | 0.232 | 5.7   | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.493 | 0.456 | 7.5   | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.384 | 0.402 | -4.7  | 108   | 0.00     |

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 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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   | 117   | 0.00     |
| 50 S  | Toluene-d8                  | 1.223 | 1.229 | -0.5  | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.515 | 0.526 | -2.1  | 105   | 0.00     |
| 52 CM | Toluene                     | 0.877 | 0.869 | 0.9#  | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.476 | 0.488 | -2.5  | 100   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.549 | 0.525 | 4.4   | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.357 | 0.344 | 3.6   | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.502 | 0.533 | -6.2  | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.613 | 0.590 | 3.8   | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.230 | 0.241 | -4.8  | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.372 | 0.387 | -4.0  | 105   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.376 | 0.357 | 5.1   | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.357 | 0.348 | 2.5   | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.405 | 0.417 | -3.0  | 107   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.315 | 0.288 | 8.6   | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.060 | 1.005 | 5.2   | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.385 | 0.369 | 4.2   | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.805 | 1.809 | -0.2# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.696 | 0.704 | -1.1  | 99    | 0.00     |
| 69 T  | o-Xylene                    | 0.679 | 0.701 | -3.2  | 102   | 0.00     |
| 70 T  | Styrene                     | 1.097 | 1.159 | -5.7  | 101   | 0.00     |
| 71 P  | Bromoform                   | 0.282 | 0.281 | 0.4   | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.665 | 3.588 | 2.1   | 102   | 0.00     |
| 74 T  | N-amyl acetate              | 1.652 | 1.659 | -0.4  | 103   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.327 | 1.170 | 11.8  | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.011 | 1.100 | -8.8  | 120   | 0.00     |
| 77 T  | Bromobenzene                | 0.914 | 0.844 | 7.7   | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 4.303 | 4.222 | 1.9   | 101   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.635 | 2.480 | 5.9   | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.029 | 3.031 | -0.1  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.347 | 0.366 | -5.5  | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.635 | 2.480 | 5.9   | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.740 | 2.694 | 1.7   | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.019 | 3.011 | 0.3   | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.825 | 3.862 | -1.0  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.055 | 3.222 | -5.5  | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.728 | 1.612 | 6.7   | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.721 | 1.623 | 5.7   | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.657 | 2.729 | -2.7  | 98    | 0.00     |
| 90 T  | Hexachloroethane            | 0.640 | 0.567 | 11.4  | 98    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.772 | 1.682 | 5.1   | 104   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.257 | 0.219 | 14.8  | 101   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.884 | 0.897 | -1.5  | 99    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.433 | 0.410 | 5.3   | 100   | 0.00     |
| 95 T  | Naphthalene                 | 2.682 | 3.075 | -14.7 | 106   | 0.00     |

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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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.856 | 0.924 | -7.9 | 104   | 0.00     |

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