

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN033122\  
 Data File : VN071741.D  
 Acq On : 01 Apr 2022 06:53  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 01 07:47:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N033022W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 31 01:57:54 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    | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.398 | 0.392 | 1.5    | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.504 | 0.476 | 5.6    | 99    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.553 | 0.529 | 4.3#   | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.360 | 0.316 | 12.2   | 86    | -0.01    |
| 6 T   | Chloroethane                | 0.398 | 0.345 | 13.3   | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.704 | 0.677 | 3.8    | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 0.297 | 0.305 | -2.7   | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.434 | 0.416 | 4.1    | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.606 | 0.602 | 0.7    | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.093 | 0.109 | -17.2  | 109   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.413 | 0.405 | 1.9#   | 97    | 0.00     |
| 13 T  | Acrolein                    | 0.113 | 0.128 | -13.3  | 105   | 0.00     |
| 14 T  | Allyl chloride              | 0.670 | 0.652 | 2.7    | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 0.269 | 0.314 | -16.7  | 109   | 0.00     |
| 16 T  | Acetone                     | 0.244 | 0.242 | 0.8    | 104   | 0.00     |
| 17 T  | Carbon Disulfide            | 0.947 | 0.863 | 8.9    | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 0.737 | 0.676 | 8.3    | 108   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.533 | 1.599 | -4.3   | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 0.514 | 0.524 | -1.9   | 104   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.453 | 0.439 | 3.1    | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.458 | 1.522 | -4.4   | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.160 | 1.296 | -11.7  | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.856 | 0.880 | -2.8   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 0.352 | 0.402 | -14.2  | 109   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.735 | 0.506 | 31.2#  | 66    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.556 | 0.561 | -0.9   | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 0.345 | 0.372 | -7.8   | 118   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.228 | 0.262 | -14.9  | 107   | 0.00     |
| 30 C  | Chloroform                  | 0.904 | 0.919 | -1.7#  | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 0.776 | 0.714 | 8.0    | 96    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.773 | 0.772 | 0.1    | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.571 | 0.585 | -2.5   | 103   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.294 | 0.305 | -3.7   | 105   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.411 | 0.397 | 3.4    | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.450 | 0.482 | -7.1   | 102   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.403 | 0.403 | 0.0    | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.489 | 0.468 | 4.3    | 93    | 0.00     |
| 40 TM | Benzene                     | 1.298 | 1.277 | 1.6    | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.220 | 0.277 | -25.9# | 122   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.449 | 0.438 | 2.4    | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.748 | 1.001 | -33.8# | 139   | 0.00     |
| 44 TM | Trichloroethene             | 0.334 | 0.324 | 3.0    | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.324 | 0.330 | -1.9#  | 102   | 0.00     |
| 46 T  | Dibromomethane              | 0.220 | 0.226 | -2.7   | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.433 | 0.449 | -3.7   | 100   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.310 | 0.324 | -4.5   | 100   | 0.00     |

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 ALS Vial : 46 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                 | 0.008 | 0.008 | 0.0    | 111   | 0.00     |
| 50 S  | Toluene-d8                  | 1.204 | 1.237 | -2.7   | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.430 | 0.489 | -13.7  | 106   | 0.00     |
| 52 CM | Toluene                     | 0.820 | 0.840 | -2.4#  | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.454 | 0.462 | -1.8   | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.502 | 0.501 | 0.2    | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.338 | 0.346 | -2.4   | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.482 | 0.551 | -14.3  | 105   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.565 | 0.579 | -2.5   | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.111 | 0.142 | -27.9# | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.303 | 0.360 | -18.8  | 107   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.329 | 0.363 | -10.3  | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.332 | 0.350 | -5.4   | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.389 | 0.405 | -4.1   | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.330 | 0.297 | 10.0   | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.001 | 0.966 | 3.5    | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.361 | 0.366 | -1.4   | 103   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.695 | 1.693 | 0.1#   | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.651 | 0.644 | 1.1    | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.646 | 0.652 | -0.9   | 98    | 0.00     |
| 70 T  | Styrene                     | 0.979 | 1.046 | -6.8   | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.275 | 0.298 | -8.4   | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.213 | 4.144 | 1.6    | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 1.207 | 1.374 | -13.8  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.406 | 1.398 | 0.6    | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.158 | 1.106 | 4.5    | 96    | 0.00     |
| 77 T  | Bromobenzene                | 1.056 | 1.001 | 5.2    | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 4.432 | 4.450 | -0.4   | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.842 | 2.812 | 1.1    | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.338 | 3.389 | -1.5   | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.374 | 0.375 | -0.3   | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.635 | 2.544 | 3.5    | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.052 | 3.021 | 1.0    | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.257 | 3.311 | -1.7   | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.956 | 4.032 | -1.9   | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.154 | 3.258 | -3.3   | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.683 | 1.624 | 3.5    | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.642 | 1.542 | 6.1    | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.339 | 2.357 | -0.8   | 89    | 0.00     |
| 90 T  | Hexachloroethane            | 0.577 | 0.631 | -9.4   | 102   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.652 | 1.567 | 5.1    | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.218 | 0.246 | -12.8  | 102   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.649 | 0.736 | -13.4  | 90    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.487 | 0.415 | 14.8   | 84    | 0.00     |
| 95 T  | Naphthalene                 | 1.586 | 2.211 | -39.4# | 98    | 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 | 0.604 | 0.743 | -23.0 | 94    | 0.00     |

(#) = Out of Range

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