

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031522\  
 Data File : VN071308.D  
 Acq On : 15 Mar 2022 21:41  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 16 08:09:13 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Mar 08 06:52:46 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   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.548 | 0.449 | 18.1  | 84    | 0.00     |
| 3 P   | Chloromethane               | 0.822 | 0.662 | 19.5  | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.672 | 0.587 | 12.6# | 89    | 0.00     |
| 5 T   | Bromomethane                | 0.335 | 0.305 | 9.0   | 87    | 0.00     |
| 6 T   | Chloroethane                | 0.407 | 0.368 | 9.6   | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.884 | 0.787 | 11.0  | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 0.378 | 0.347 | 8.2   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.512 | 0.454 | 11.3  | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 0.723 | 0.600 | 17.0  | 81    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.135 | 0.126 | 6.7   | 96    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.501 | 0.446 | 11.0# | 90    | 0.00     |
| 13 T  | Acrolein                    | 0.142 | 0.114 | 19.7  | 86    | 0.00     |
| 14 T  | Allyl chloride              | 1.090 | 0.981 | 10.0  | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 0.400 | 0.376 | 6.0   | 94    | 0.00     |
| 16 T  | Acetone                     | 0.333 | 0.311 | 6.6   | 96    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.427 | 1.110 | 22.2  | 79    | 0.00     |
| 18 T  | Methyl Acetate              | 0.979 | 0.911 | 6.9   | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.882 | 1.776 | 5.6   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.661 | 0.563 | 14.8  | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.548 | 0.478 | 12.8  | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.148 | 2.029 | 5.5   | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.818 | 1.769 | 2.7   | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.135 | 1.040 | 8.4   | 92    | 0.00     |
| 25 T  | 2-Butanone                  | 0.537 | 0.518 | 3.5   | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.876 | 0.761 | 13.1  | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.651 | 0.588 | 9.7   | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.505 | 0.408 | 19.2  | 80    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.372 | 0.350 | 5.9   | 93    | 0.00     |
| 30 C  | Chloroform                  | 1.083 | 0.989 | 8.7#  | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 1.094 | 0.946 | 13.5  | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.922 | 0.862 | 6.5   | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.685 | 0.644 | 6.0   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.316 | 0.305 | 3.5   | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.506 | 0.455 | 10.1  | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.696 | 0.641 | 7.9   | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.489 | 0.450 | 8.0   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.595 | 0.545 | 8.4   | 88    | 0.00     |
| 40 TM | Benzene                     | 1.523 | 1.403 | 7.9   | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.340 | 0.338 | 0.6   | 98    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.530 | 0.508 | 4.2   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.040 | 1.087 | -4.5  | 106   | 0.00     |
| 44 TM | Trichloroethene             | 0.359 | 0.332 | 7.5   | 90    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.409 | 0.382 | 6.6#  | 91    | 0.00     |
| 46 T  | Dibromomethane              | 0.252 | 0.238 | 5.6   | 93    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.509 | 0.493 | 3.1   | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.482 | 0.479 | 0.6   | 94    | 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.008 | 0.0    | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 1.270 | 1.205 | 5.1    | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.646 | 0.646 | 0.0    | 96    | 0.00     |
| 52 CM | Toluene                     | 0.938 | 0.892 | 4.9#   | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.561 | 0.539 | 3.9    | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.613 | 0.579 | 5.5    | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.376 | 0.353 | 6.1    | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.614 | 0.610 | 0.7    | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.675 | 0.633 | 6.2    | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.101 | 0.170 | -68.3# | 149   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.441 | 0.473 | -7.3   | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.373 | 0.369 | 1.1    | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.384 | 0.360 | 6.3    | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.430 | 0.414 | 3.7    | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.349 | 0.309 | 11.5   | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 1.074 | 1.012 | 5.8    | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.394 | 0.378 | 4.1    | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.899 | 1.861 | 2.0#   | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.695 | 0.700 | -0.7   | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.696 | 0.702 | -0.9   | 94    | 0.00     |
| 70 T  | Styrene                     | 1.078 | 1.125 | -4.4   | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.299 | 0.308 | -3.0   | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.820 | 4.456 | 7.6    | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.812 | 1.807 | 0.3    | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.655 | 1.513 | 8.6    | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.407 | 1.391 | 1.1    | 110   | 0.00     |
| 77 T  | Bromobenzene                | 1.124 | 1.041 | 7.4    | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 5.172 | 4.938 | 4.5    | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.320 | 3.030 | 8.7    | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.750 | 3.558 | 5.1    | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.463 | 0.472 | -1.9   | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.957 | 2.796 | 5.4    | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.347 | 3.231 | 3.5    | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.592 | 3.507 | 2.4    | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.448 | 4.334 | 2.6    | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.498 | 3.505 | -0.2   | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.826 | 1.693 | 7.3    | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.785 | 1.644 | 7.9    | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.736 | 2.679 | 2.1    | 95    | 0.00     |
| 90 T  | Hexachloroethane            | 0.696 | 0.659 | 5.3    | 94    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.756 | 1.641 | 6.5    | 95    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.280 | 0.273 | 2.5    | 100   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.797 | 0.758 | 4.9    | 96    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.493 | 0.440 | 10.8   | 89    | 0.00     |
| 95 T  | Naphthalene                 | 2.115 | 2.310 | -9.2   | 111   | 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 | 0.775 | 0.752 | 3.0  | 97    | 0.00     |

(#) = Out of Range

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