

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080322\  
 Data File : VN073703.D  
 Acq On : 03 Aug 2022 11:17  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 04 05:30:50 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072822W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 29 02:20:25 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   | 91    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.485 | 0.428 | 11.8  | 86    | 0.00     |
| 3 P   | Chloromethane               | 0.699 | 0.575 | 17.7  | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.848 | 0.745 | 12.1# | 86    | 0.00     |
| 5 T   | Bromomethane                | 0.492 | 0.328 | 33.3# | 65    | 0.00     |
| 6 T   | Chloroethane                | 0.592 | 0.521 | 12.0  | 92    | -0.01    |
| 7 T   | Trichlorofluoromethane      | 0.874 | 0.801 | 8.4   | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 0.328 | 0.309 | 5.8   | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.484 | 0.482 | 0.4   | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 0.492 | 0.442 | 10.2  | 75    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.131 | 0.120 | 8.4   | 83    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.474 | 0.453 | 4.4#  | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.130 | 0.144 | -10.8 | 96    | 0.00     |
| 14 T  | Allyl chloride              | 0.758 | 0.712 | 6.1   | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 0.364 | 0.360 | 1.1   | 92    | 0.00     |
| 16 T  | Acetone                     | 0.327 | 0.282 | 13.8  | 88    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.258 | 1.152 | 8.4   | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 0.814 | 0.790 | 2.9   | 95    | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 1.621 | 1.657 | -2.2  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.691 | 0.562 | 18.7  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.514 | 0.515 | -0.2  | 95    | -0.01    |
| 22 T  | Diisopropyl ether           | 1.636 | 1.650 | -0.9  | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.372 | 1.436 | -4.7  | 93    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.007 | 0.965 | 4.2   | 95    | 0.00     |
| 25 T  | 2-Butanone                  | 0.508 | 0.486 | 4.3   | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.774 | 0.772 | 0.3   | 97    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.633 | 0.632 | 0.2   | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 0.423 | 0.421 | 0.5   | 93    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.321 | 0.315 | 1.9   | 88    | 0.00     |
| 30 C  | Chloroform                  | 1.049 | 1.032 | 1.6#  | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 0.907 | 0.854 | 5.8   | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.871 | 0.853 | 2.1   | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.609 | 0.628 | -3.1  | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.314 | 0.344 | -9.6  | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.447 | 0.486 | -8.7  | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.589 | 0.614 | -4.2  | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.454 | 0.469 | -3.3  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.535 | 0.600 | -12.1 | 95    | 0.00     |
| 40 TM | Benzene                     | 1.453 | 1.521 | -4.7  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.267 | 0.272 | -1.9  | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.490 | 0.504 | -2.9  | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.796 | 0.857 | -7.7  | 92    | 0.00     |
| 44 TM | Trichloroethene             | 0.368 | 0.382 | -3.8  | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.363 | 0.384 | -5.8# | 96    | 0.00     |
| 46 T  | Dibromomethane              | 0.252 | 0.268 | -6.3  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.484 | 0.519 | -7.2  | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.348 | 0.399 | -14.7 | 98    | 0.00     |

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 MSVOA\_N  
 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                 | 0.010 | 0.010 | 0.0    | 89    | 0.00     |
| 50 S  | Toluene-d8                  | 1.236 | 1.390 | -12.5  | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.571 | 0.623 | -9.1   | 92    | 0.00     |
| 52 CM | Toluene                     | 0.888 | 0.992 | -11.7# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.478 | 0.534 | -11.7  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.539 | 0.597 | -10.8  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.370 | 0.401 | -8.4   | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.510 | 0.610 | -19.6  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.628 | 0.670 | -6.7   | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.229 | 0.270 | -17.9  | 93    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.433 | 0.476 | -9.9   | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.368 | 0.425 | -15.5  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.381 | 0.419 | -10.0  | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.382 | 0.464 | -21.5  | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.397 | 0.403 | -1.5   | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 1.062 | 1.118 | -5.3   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.381 | 0.411 | -7.9   | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.792 | 2.001 | -11.7# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.683 | 0.788 | -15.4  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 0.666 | 0.772 | -15.9  | 96    | 0.00     |
| 70 T  | Styrene                     | 1.066 | 1.296 | -21.6  | 97    | 0.00     |
| 71 P  | Bromoform                   | 0.314 | 0.355 | -13.1  | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.660 | 3.939 | -7.6   | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 1.383 | 1.425 | -3.0   | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.412 | 1.325 | 6.2    | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.135 | 0.960 | 15.4   | 91    | 0.00     |
| 77 T  | Bromobenzene                | 0.953 | 0.981 | -2.9   | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 4.118 | 4.615 | -12.1  | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.570 | 2.702 | -5.1   | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.012 | 3.320 | -10.2  | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.386 | 0.399 | -3.4   | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.436 | 2.618 | -7.5   | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.668 | 2.898 | -8.6   | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.962 | 3.296 | -11.3  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.687 | 4.151 | -12.6  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.907 | 3.488 | -20.0  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.740 | 1.797 | -3.3   | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.741 | 1.784 | -2.5   | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.365 | 2.766 | -17.0  | 98    | 0.00     |
| 90 T  | Hexachloroethane            | 0.577 | 0.608 | -5.4   | 98    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.763 | 1.824 | -3.5   | 98    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.284 | 0.278 | 2.1    | 92    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.876 | 1.004 | -14.6  | 97    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.476 | 0.511 | -7.4   | 99    | 0.00     |
| 95 T  | Naphthalene                 | 2.841 | 3.236 | -13.9  | 91    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

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|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.921 | 1.020 | -10.7 | 95    | 0.00     |

(#) = Out of Range

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