

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN011720\  
 Data File : VN059774.D  
 Acq On : 17 Jan 2020 20:26  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 18 02:03:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N011320W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 14 08:58:21 2020  
 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.534 | 0.628 | -17.6  | 98    | 0.00     |
| 3 P   | Chloromethane               | 0.572 | 0.580 | -1.4   | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.655 | 0.733 | -11.9# | 98    | 0.00     |
| 5 T   | Bromomethane                | 0.400 | 0.429 | -7.2   | 99    | 0.00     |
| 6 T   | Chloroethane                | 0.310 | 0.340 | -9.7   | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.787 | 0.867 | -10.2  | 101   | 0.00     |
| 8 T   | Diethyl Ether               | 0.276 | 0.301 | -9.1   | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.438 | 0.492 | -12.3  | 102   | 0.00     |
| 10 T  | Methyl Iodide               | 0.708 | 0.754 | -6.5   | 98    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.093 | 0.098 | -5.4   | 97    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.457 | 0.486 | -6.3#  | 100   | 0.00     |
| 13 T  | Acrolein                    | 0.066 | 0.061 | 7.6    | 89    | 0.00     |
| 14 T  | Allyl chloride              | 0.617 | 0.589 | 4.5    | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 0.213 | 0.232 | -8.9   | 97    | 0.00     |
| 16 T  | Acetone                     | 0.224 | 0.199 | 11.2   | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.303 | 1.314 | -0.8   | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 0.649 | 0.677 | -4.3   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.491 | 1.606 | -7.7   | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 0.557 | 0.559 | -0.4   | 105   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.486 | 0.519 | -6.8   | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.397 | 1.476 | -5.7   | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.082 | 1.153 | -6.6   | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.854 | 0.904 | -5.9   | 99    | 0.00     |
| 25 T  | 2-Butanone                  | 0.314 | 0.302 | 3.8    | 92    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.821 | 0.808 | 1.6    | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.559 | 0.603 | -7.9   | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 0.341 | 0.350 | -2.6   | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.195 | 0.199 | -2.1   | 95    | 0.00     |
| 30 C  | Chloroform                  | 0.885 | 0.960 | -8.5#  | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 0.822 | 0.792 | 3.6    | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.818 | 0.894 | -9.3   | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.555 | 0.561 | -1.1   | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.298 | 0.310 | -4.0   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.435 | 0.455 | -4.6   | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.408 | 0.404 | 1.0    | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.474 | 0.504 | -6.3   | 101   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.537 | 0.552 | -2.8   | 96    | 0.00     |
| 40 TM | Benzene                     | 1.299 | 1.356 | -4.4   | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.201 | 0.186 | 7.5    | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.440 | 0.473 | -7.5   | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.702 | 0.708 | -0.9   | 95    | 0.00     |
| 44 TM | Trichloroethene             | 0.354 | 0.391 | -10.5  | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.321 | 0.340 | -5.9#  | 99    | 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.227 | 0.249 | -9.7  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.457 | 0.495 | -8.3  | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.314 | 0.317 | -1.0  | 94    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.006 | 0.0   | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 1.155 | 1.181 | -2.3  | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.406 | 0.415 | -2.2  | 96    | 0.00     |
| 52 CM | Toluene                     | 0.820 | 0.885 | -7.9# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.510 | 0.543 | -6.5  | 97    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.537 | 0.577 | -7.4  | 98    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.325 | 0.347 | -6.8  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.496 | 0.522 | -5.2  | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.516 | 0.568 | -10.1 | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.150 | 0.172 | -14.7 | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.299 | 0.305 | -2.0  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.370 | 0.409 | -10.5 | 102   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.340 | 0.372 | -9.4  | 100   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.416 | 0.421 | -1.2  | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.408 | 0.405 | 0.7   | 87    | 0.00     |
| 65 PM | Chlorobenzene               | 0.983 | 1.042 | -6.0  | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.380 | 0.410 | -7.9  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.784 | 1.863 | -4.4# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.674 | 0.704 | -4.5  | 99    | 0.00     |
| 69 T  | o-Xylene                    | 0.660 | 0.687 | -4.1  | 100   | 0.00     |
| 70 T  | Styrene                     | 1.104 | 1.165 | -5.5  | 98    | 0.00     |
| 71 P  | Bromoform                   | 0.304 | 0.332 | -9.2  | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.667 | 3.799 | -3.6  | 100   | 0.00     |
| 74 T  | N-amyl acetate              | 1.423 | 1.386 | 2.6   | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.063 | 1.099 | -3.4  | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.841 | 0.950 | -13.0 | 105   | 0.00     |
| 77 T  | Bromobenzene                | 0.929 | 0.978 | -5.3  | 101   | 0.00     |
| 78 T  | n-propylbenzene             | 4.116 | 4.214 | -2.4  | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.448 | 2.471 | -0.9  | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.084 | 3.194 | -3.6  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.392 | 0.387 | 1.3   | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.456 | 2.550 | -3.8  | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.667 | 2.763 | -3.6  | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.051 | 3.184 | -4.4  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.504 | 3.613 | -3.1  | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.243 | 3.291 | -1.5  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.613 | 1.693 | -5.0  | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.609 | 1.681 | -4.5  | 100   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.765 | 2.793 | -1.0  | 95    | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.607 | 0.617 | -1.6 | 97    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.595 | 1.680 | -5.3 | 101   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.257 | 0.235 | 8.6  | 97    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.958 | 1.012 | -5.6 | 94    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.528 | 0.527 | 0.2  | 96    | 0.00     |
| 95 T | Naphthalene                 | 2.726 | 2.783 | -2.1 | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.933 | 0.965 | -3.4 | 94    | 0.00     |

(#) = Out of Range

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