

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN053119\  
 Data File : VN055931.D  
 Acq On : 31 May 2019 20:09  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 03 08:53:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 24 06:41:54 2019  
 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   | 84    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.337 | 0.298 | 11.6  | 79    | 0.00     |
| 3 P   | Chloromethane               | 0.471 | 0.423 | 10.2  | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.503 | 0.464 | 7.8#  | 80    | 0.00     |
| 5 T   | Bromomethane                | 0.315 | 0.305 | 3.2   | 78    | 0.00     |
| 6 T   | Chloroethane                | 0.303 | 0.303 | 0.0   | 83    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.659 | 0.646 | 2.0   | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 0.295 | 0.297 | -0.7  | 86    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.412 | 0.412 | 0.0   | 87    | 0.00     |
| 10 T  | Methyl Iodide               | 0.602 | 0.610 | -1.3  | 81    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.099 | 0.098 | 1.0   | 80    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.425 | 0.416 | 2.1#  | 84    | 0.00     |
| 13 T  | Acrolein                    | 0.071 | 0.063 | 11.3  | 77    | 0.00     |
| 14 T  | Allyl chloride              | 0.729 | 0.681 | 6.6   | 80    | 0.00     |
| 15 T  | Acrylonitrile               | 0.227 | 0.248 | -9.3  | 92    | 0.00     |
| 16 T  | Acetone                     | 0.227 | 0.215 | 5.3   | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.208 | 0.888 | 26.5# | 65    | 0.00     |
| 18 T  | Methyl Acetate              | 0.538 | 0.547 | -1.7  | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.418 | 1.468 | -3.5  | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 0.492 | 0.491 | 0.2   | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.457 | 0.451 | 1.3   | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.418 | 1.497 | -5.6  | 90    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.216 | 1.245 | -2.4  | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.826 | 0.835 | -1.1  | 88    | 0.00     |
| 25 T  | 2-Butanone                  | 0.317 | 0.336 | -6.0  | 90    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.714 | 0.598 | 16.2  | 74    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.533 | 0.559 | -4.9  | 89    | 0.00     |
| 28 T  | Bromochloromethane          | 0.393 | 0.407 | -3.6  | 87    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.201 | 0.217 | -8.0  | 91    | 0.00     |
| 30 C  | Chloroform                  | 0.823 | 0.859 | -4.4# | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 0.775 | 0.729 | 5.9   | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.735 | 0.721 | 1.9   | 85    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.516 | 0.555 | -7.6  | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.316 | 0.323 | -2.2  | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.436 | 0.413 | 5.3   | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.421 | 0.445 | -5.7  | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.454 | 0.394 | 13.2  | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.540 | 0.481 | 10.9  | 81    | 0.00     |
| 40 TM | Benzene                     | 1.313 | 1.316 | -0.2  | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.213 | 0.208 | 2.3   | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.429 | 0.426 | 0.7   | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.708 | 0.709 | -0.1  | 90    | 0.00     |
| 44 TM | Trichloroethene             | 0.366 | 0.362 | 1.1   | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.342 | 0.350 | -2.3# | 90    | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 46 T  | Dibromomethane              | 0.224 | 0.227 | -1.3 | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.460 | 0.431 | 6.3  | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.326 | 0.341 | -4.6 | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.007 | 0.007 | 0.0  | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 1.213 | 1.213 | 0.0  | 87    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.418 | 0.438 | -4.8 | 91    | 0.00     |
| 52 CM | Toluene                     | 0.826 | 0.826 | 0.0  | 88    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.491 | 0.459 | 6.5  | 80    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.544 | 0.519 | 4.6  | 83    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.331 | 0.341 | -3.0 | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.511 | 0.519 | -1.6 | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.538 | 0.562 | -4.5 | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.195 | 0.191 | 2.1  | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.296 | 0.302 | -2.0 | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.385 | 0.357 | 7.3  | 80    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.343 | 0.350 | -2.0 | 89    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.416 | 0.416 | 0.0  | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.422 | 0.409 | 3.1  | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 1.001 | 0.998 | 0.3  | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.399 | 0.381 | 4.5  | 86    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.795 | 1.754 | 2.3# | 87    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.679 | 0.670 | 1.3  | 87    | 0.00     |
| 69 T  | o-Xylene                    | 0.673 | 0.664 | 1.3  | 87    | 0.00     |
| 70 T  | Styrene                     | 1.090 | 1.101 | -1.0 | 86    | 0.00     |
| 71 P  | Bromoform                   | 0.341 | 0.288 | 15.5 | 72    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 81    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.186 | 3.952 | 5.6  | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 1.536 | 1.446 | 5.9  | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.241 | 1.230 | 0.9  | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.988 | 1.014 | -2.6 | 90    | 0.00     |
| 77 T  | Bromobenzene                | 1.067 | 1.046 | 2.0  | 86    | 0.00     |
| 78 T  | n-propylbenzene             | 4.346 | 4.238 | 2.5  | 86    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.693 | 2.576 | 4.3  | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.474 | 3.249 | 6.5  | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.372 | 0.325 | 12.6 | 73    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.554 | 2.490 | 2.5  | 84    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.078 | 2.859 | 7.1  | 86    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.395 | 3.216 | 5.3  | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.826 | 3.675 | 3.9  | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.472 | 3.302 | 4.9  | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.689 | 1.661 | 1.7  | 82    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.606 | 1.599 | 0.4  | 83    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.661 | 2.510 | 5.7  | 80    | 0.00     |

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|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.661 | 0.550 | 16.8 | 73    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.686 | 1.659 | 1.6  | 84    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.222 | 0.201 | 9.5  | 79    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.847 | 0.799 | 5.7  | 75    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.669 | 0.561 | 16.1 | 76    | 0.00     |
| 95 T | Naphthalene                 | 2.313 | 2.281 | 1.4  | 77    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 0.891 | 0.882 | 1.0  | 80    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5