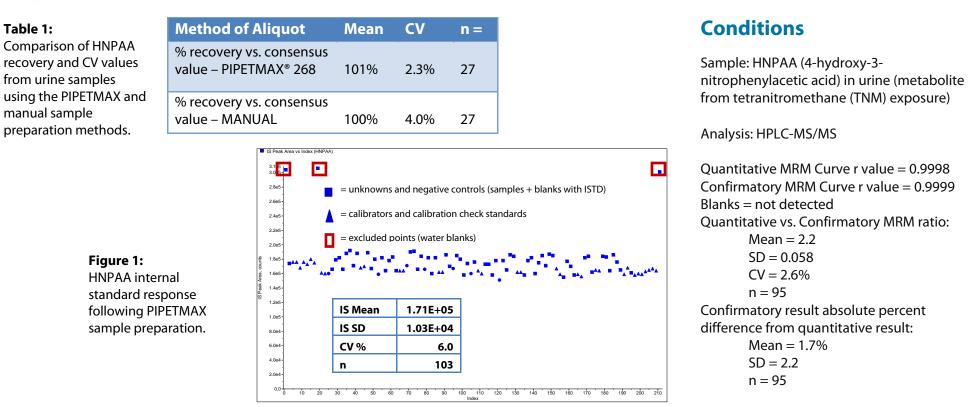


Preparation of Urine Samples for HPLC-MS/MS Detection of HNPAA using the Gilson PIPETMAX[®] 268 Work performed by Curtis Hedman, Ph.D. – Wisconsin State Laboratory of Hygiene



HNPAA, a metabolite of tetranitromethane, is used to identify exposure to explosives such as Trinitrotoluene (TNT). The Gilson PIPETMAX[®] 268 was used to prepare urine samples for HPLC-MS/MS analysis of HNPAA to compare results with manual sample preparation. Samples were performed in duplicate, with a 5.3% relative difference between duplicates of n=27. The consistency of internal standard additions for the HNPAA determination was evaluated using the PIPETMAX (Figure 1). Results show a 6% CV for n=103 (106 total injections, with three water blanks excluded). The CV and recovery values obtained were compared with previously run patient sample results performed manually for the original exposure determination. Results show similar accuracy (101% vs. 100%) but improved precision (CV=2.3%) using the PIPETMAX over 27 samples.

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