

I. Analytical Procedure: **Heated Head Space Analysis**

II. Suggested Uses: An extraction procedure for arson samples that have light solvent odors or alcohol odors.

III. Procedures

- A. Puncture a small hole in the can or jar lid and insert a rubber septum. Nylon bags can be sampled through the bag wall.
- B. Heat the container and sample to approximately 80°C for approximately 10-15 minutes.
- C. Place a new clean 3 ml. hypodermic syringe in the oven with the sample.
- D. Prepare the gas chromatograph (mass spectrometer) by running blanks, loading an appropriate method, and cooling the oven to the initial temperature (SEE INSTRUMENT PROCEDURE MANUALS).
- E. Remove the sample and syringe from the oven and obtain 0.5 to 1.0 ml. of vapor from the sample.
- F. Immediately inject the sample into the GC/MS and begin collecting data.

IV. Safety Concerns

- A. Burns may result from contact with hot items such as containers and syringes.
- B. Syringe needles are sharp and can easily puncture skin.

V. Other Information-consult the Hewlett Packard instrument manuals and the Trace Evidence Instrument Manual.