

## OBJECTIVE

To determine the presence of flammable liquids such as ethanol, acetone and other low boiling range individual compounds in fire debris using gas chromatography/mass spectrometry.

## MATERIALS

See CH SOP-18-1.

## ANALYSIS

The sample is extracted via the heated headspace method-CH SOP-18-1.

Data acquisition: Scan mode at various amu ranges depending on the type of sample (typically 19-150 amu).

NOTE: The SIM mode is not used for the analysis of fire debris samples.

## INTERPRETATION OF THE RESULTS

The following data analysis scheme is performed.

1. Select the spectrum for each chromatographic peak in the total ion chromatogram (TIC).
2. Compare the extracted spectrum against the library findings.
3. Print and save a hard copy of the library search results.