CH SOP-26 - Analysis of unknown substances	Document ID: 1047
	Revision: 1
	Effective Date: 8/15/2014
Approved by Director: Dr. Guy Vallaro	Status: Published
	Page 1 of 1

- A. Purpose: To describe an analysis scheme for the identification of unknown substances submitted as evidence.
- B. Responsibility: Section chemist or designee
- C. Safety: Always handle unknowns with proper safety equipment lab coat, gloves etc. and good laboratory practices.

D. Procedures:

1.. Microchemical:

- a. perform solubility tests using water and methylene chloride and/or additional solvents as needed. Record results on worksheet QR Cherm 02.
- b. pH-if water soluble, check pH using pH paper. Record result on worksheet as above.
- c. spot tests-perform spot tests per CH SOP-30.

2. Analytical:

- a. GC/MS if soluble in organic solvent, run on GC/MS using instrument parameters determined by the analyst. Document and save data.
- b. FT/IR-if necessary, have trace section perform FT/IR analysis. Document and save spectra.
- c. SEMIEDS-if water soluble or insoluble (probably inorganic), perform SEMIEDS analysis per CH SOP-25. Document and save spectra. E.

References:

CH SOP-25 CH SOP-30