

Approved by Director: Dr. Guy Vallaro

Purpose: To check the purity of the extraction solvent (pentane) for suitability in the arson analysis procedure.

Scope: Analysis of a sample from each bottle

Responsibility: Arson section chemist or designee

Analytical procedure:

As part of the QA/QC program, the extraction solvent (pentane) is analyzed according to the following:

1. Remove a 2.0ml sample from the newly opened bottle.
2. Using nitrogen, concentrate the sample to approximately 100 ul.
3. Inject 1.0 ul of the sample into the GC and /or GC/MS.
4. Review the chromatogram for interfering peaks or contamination. If deemed suitable use is OK.
5. If deemed not suitable, retest a second sample.
If it is still unsuitable, the bottle must be removed and a second bottle must be tested.
6. Continue to test each bottle until a suitable one is found.

Documentation: Arson analysis method
Solvent analysis file