

Compliance

Markes systems have been designed to satisfy the stringent performance and sample protection requirements of key thermal desorption standard methods such as US EPA TO-17, ASTM D-6196-97, ISO 16017, NIOSH 2549 and the UK HSE Methods for Determination of Hazardous Substances.

SecureTD - complete confidence

All Mi systems feature SecureTD, a unique recollection facility for the repeat analysis or archiving of critical samples. This provides ultimate confidence in analysis.

SecureTD allows a quantitative portion of each sample to be collected on a clean backup tube regardless of whether the original sample was in a tube or gas / air container. The quantitative performance of SecureTD has been demonstrated for both routine and challenging applications.

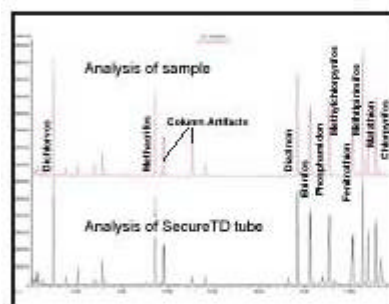
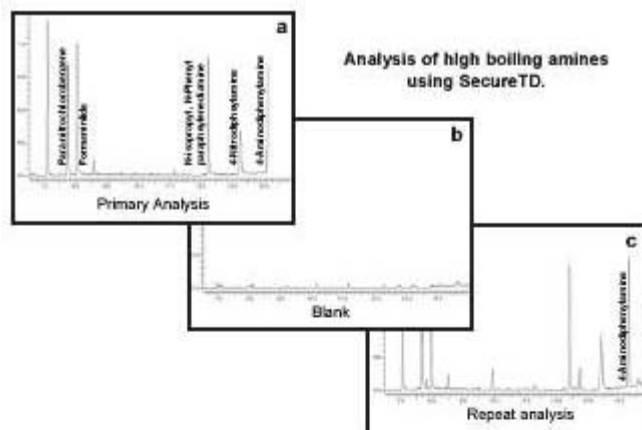
Chromatograms (a) to (c) show the analysis of a series of amines - data acquisition during the initial run ends prematurely, half way through the 4-Aminodiphenylamine (4A) peak. The subsequent blank chromatogram shows no system carry-over. Analysis of the SecureTD tube allows the quantitation of 4A despite the failure of run 1.

Secure TD - TD method validation

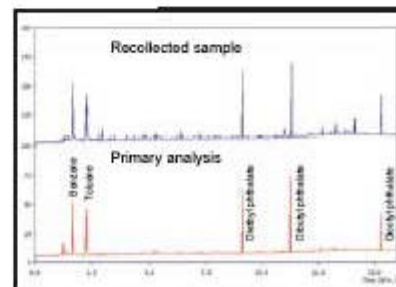
Desorption of a recollected sample should produce an exact match to the original chromatogram, but at a lower peak area - proportional to the split ratio used. By producing a replicate chromatogram or series of chromatograms from recollected samples, SecureTD can be used to demonstrate lack of bias & quantitative performance. It is thus a convenient tool for method validation.

Sample protection

Markes International TD systems feature stringent and automatic leak testing of every tube before desorption. Failed tubes are retained intact for operator attention. Tubes are also purged with carrier gas to eliminate air, prior to desorption. This prevents sorbent and / or sample oxidation. Fully interlinked ready / start signals ensure that desorption only occurs when the GC/GCMS is ready for analysis.



Semi-volatile phosphorous pesticides. Repeat analysis confirms results and validates method.



Analysis of recollected phthalate sample demonstrates quantitative SecureTD performance for high boiling compounds.

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un nuevo concepto*

**UNITY & SecureTD™
For Complete Confidence**

