

The background of the top half of the page features a blue-tinted image. On the left, a white lid is being lifted from a petri dish containing a small, brown, circular sample. On the right, a portion of a periodic table is visible, with elements like Ni, Cu, Zn, Ga, Ge, As, Se, Br, Kr, Pd, Ag, Cd, In, Sn, Sb, Te, I, Xe, Pt, Au, Hg, Tl, Pb, Bi, Po, At, Rn, and others labeled. The text "Why wait for Sample Prep!" is overlaid in white on the right side of this image.

Why wait  
for Sample  
Prep!

# S2 PICOFOX

## Benchtop TXRF for Ultra Low Detection Limits

- Fast sample preparation without digestion
- Concentrations from 0.1 ppb to 100 percent
- Sample amounts down to nanograms
- No consumables, gases or cooling water

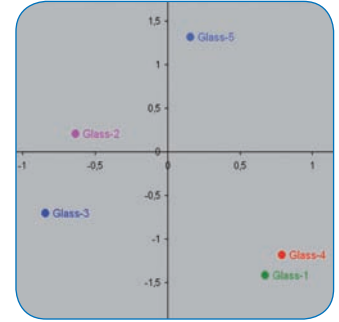
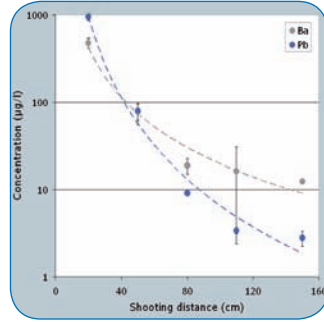


[www.s2picofox.com](http://www.s2picofox.com)

think forward

XRF

# SOLUTIONS FOR FORENSIC SCIENTISTS



## Forensic Distance Determination after Firearm use

Total reflection **X-Ray Fluorescence** (TXRF) offers simultaneous trace element analysis of gunshot residues for distance determination.

- The TXRF spectrometer S2 PICOFOX is suitable for distance determination after firearm shooting
- TXRF supports simultaneous element analysis, also in case of unknown ammunition
- TXRF is not affected by colours (tissues, blood)
- TXRF provides the flexibility to deal with future changes of primer compositions

## Characterization and correspondence analysis of glass fragments

Total reflection **X-Ray Fluorescence** requires only smallest sample amounts and allows non-destructive analysis of glass splinters.

- The TXRF spectrometer S2 PICOFOX is suitable for the accurate elemental analysis of glass fragments
- A simple semi-quantitative procedure supports fast characterization of glass types
- Correspondence analysis allows identification of glass manufacturers

**More informations required?**  
**Please ask for a hardcopy of our lab reports.**

LR XRF 426: TXRF Spectroscopy  
- Working Principles

LR XRF 431: Forensic Distance Determination by  
TXRF after Firearm use

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