Terra at Work

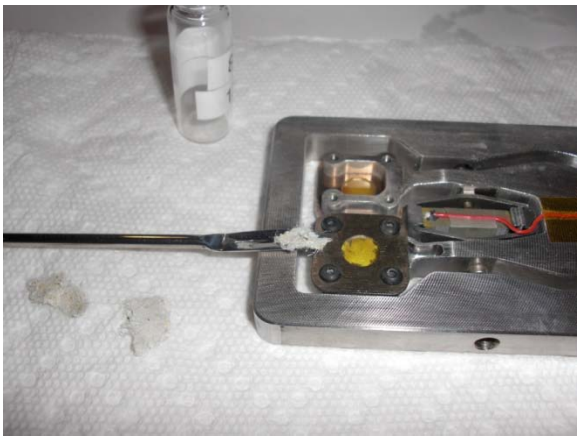
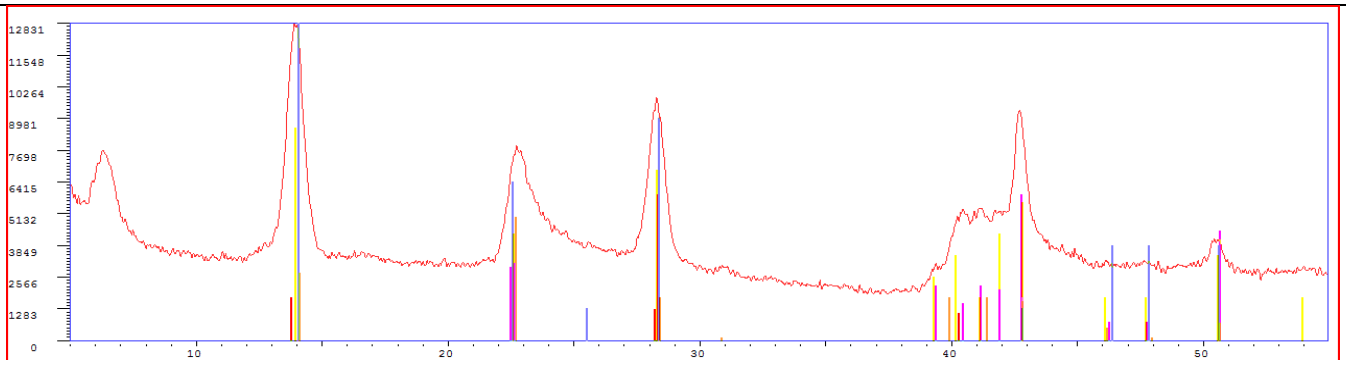
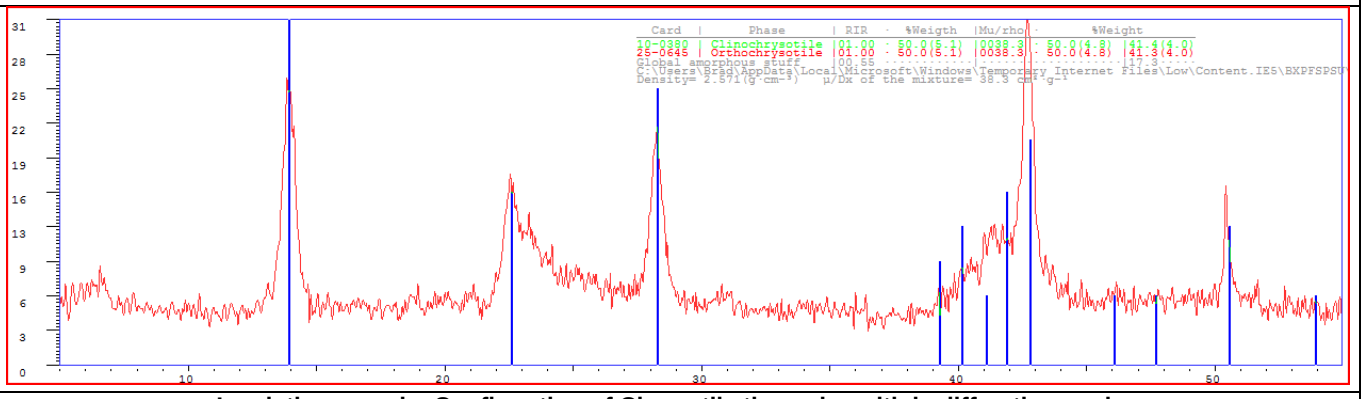


Figure one: Asbestos insulation sample

Summary: A small known sample of asbestos (50% Chrysotile) containing insulation was analyzed in TERRA for the purposes of confirmation. The sample was “sandwiched” between the two Mylar windows of TERRA and inserted into the diffractometer. Total analysis time was two minutes.



Chrysotile USGS standard material



Insulation sample: Confirmation of Chrysotile through multiple diffraction peaks

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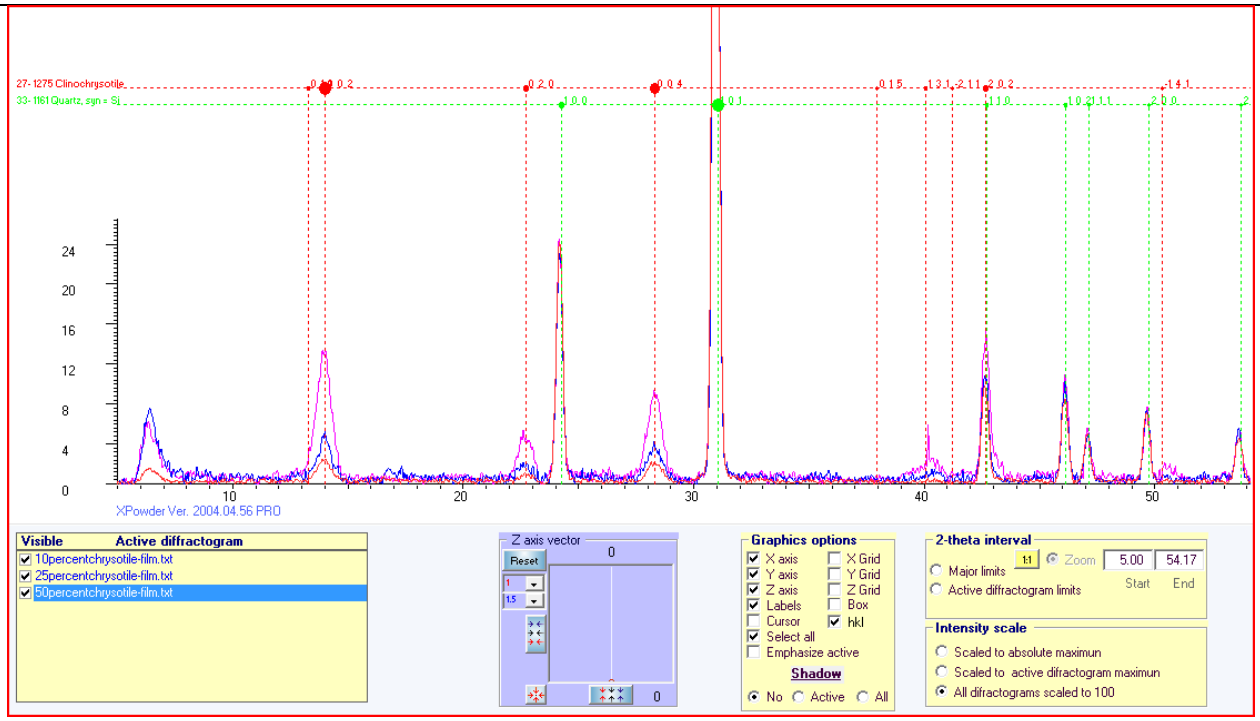
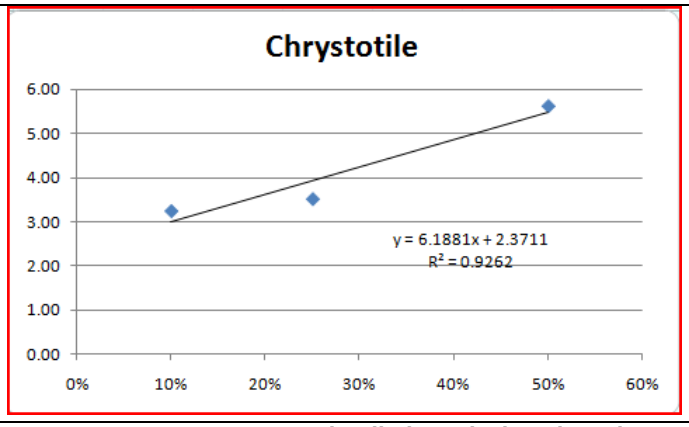
Summary: Three USGS Chrysotile samples were diluted with pure quartz to determine the sensitivity and detection limit of this asbestos mineral using TERRA. The three samples contained 10%, 25% and 50% Chrysotile respectively. The samples were analyzed in TERRA for 400 seconds using standard limited sample preparation (<150um dry sample).

Overlay of three Chrysotile samples.





Sensitivity		6.19	cps/%
BEC		0.38	%
Analysis time		400	seconds
Detection limit		0.60%	

Detection limit analysis using Chrysotile peak at 13.5 degrees two theta

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