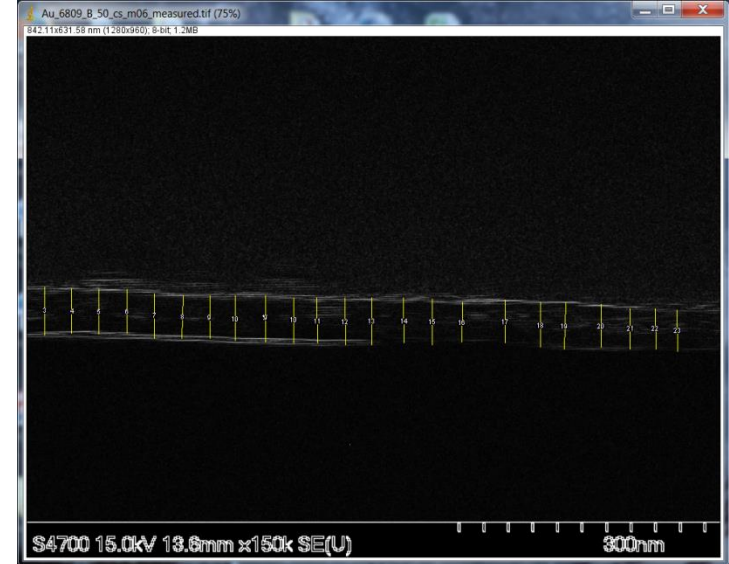
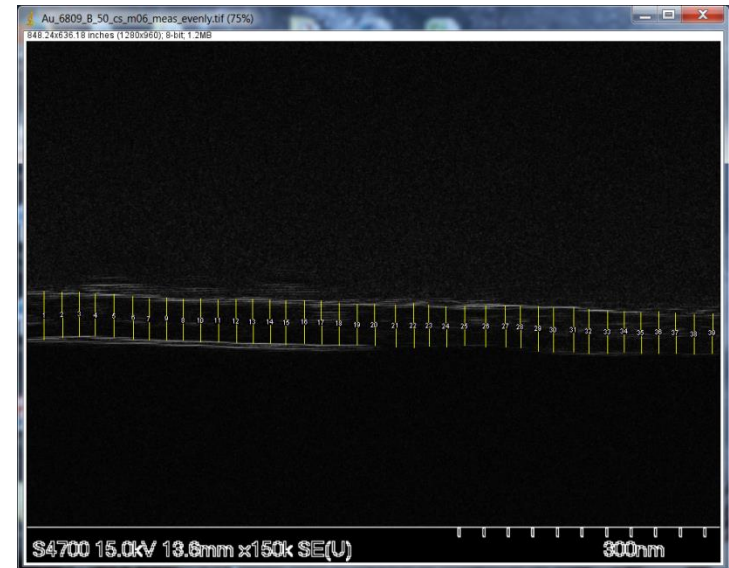
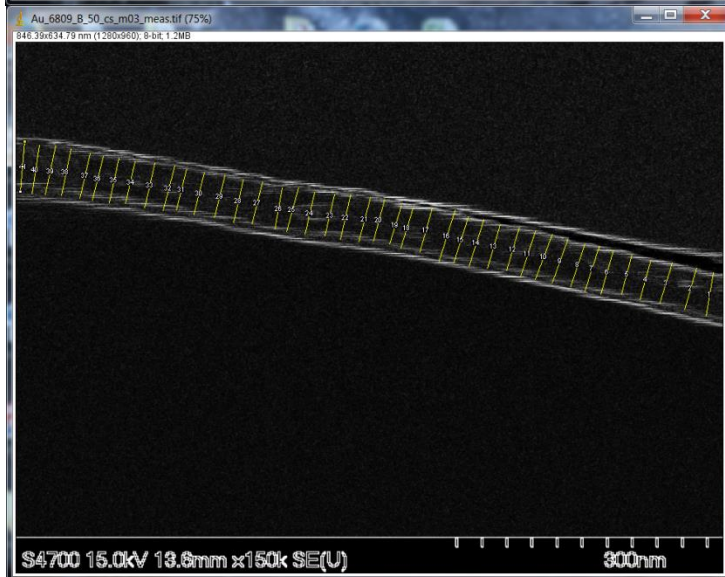
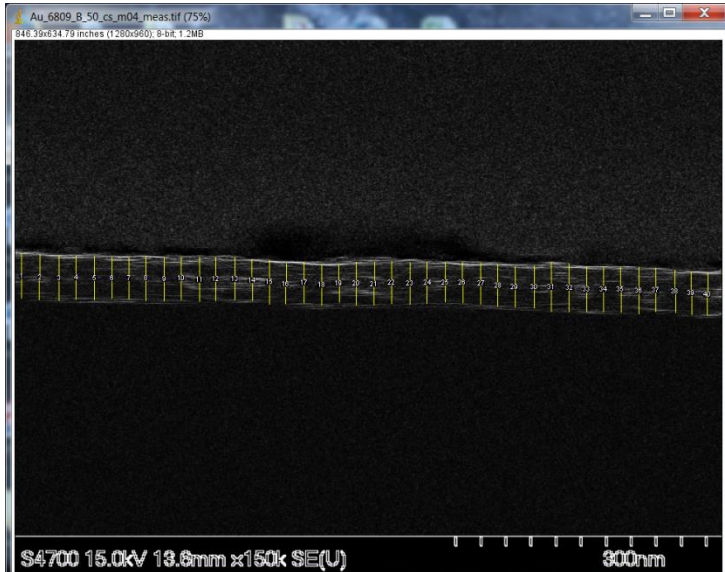
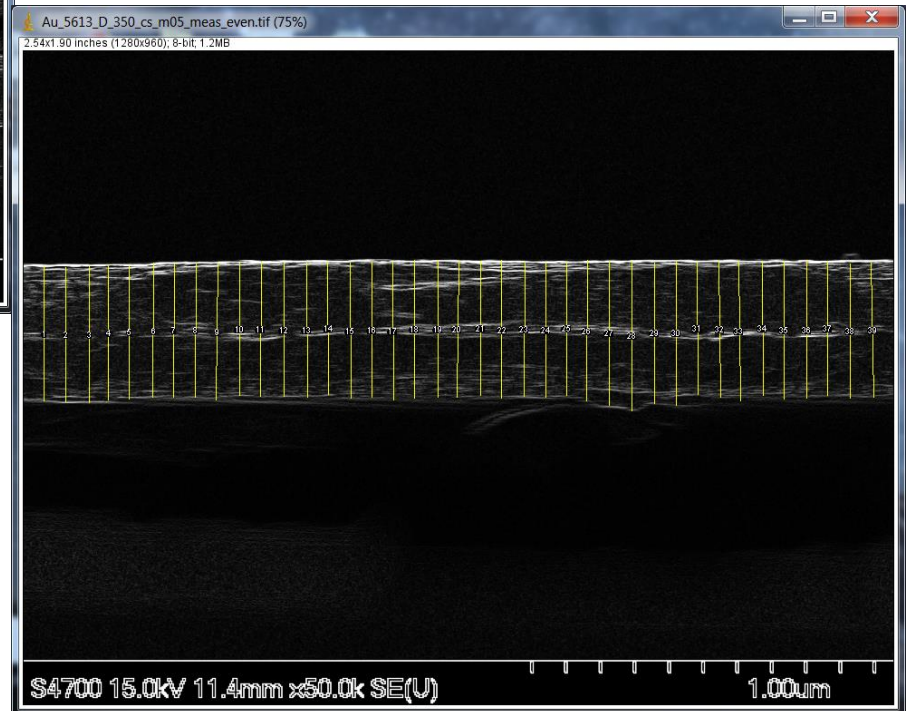
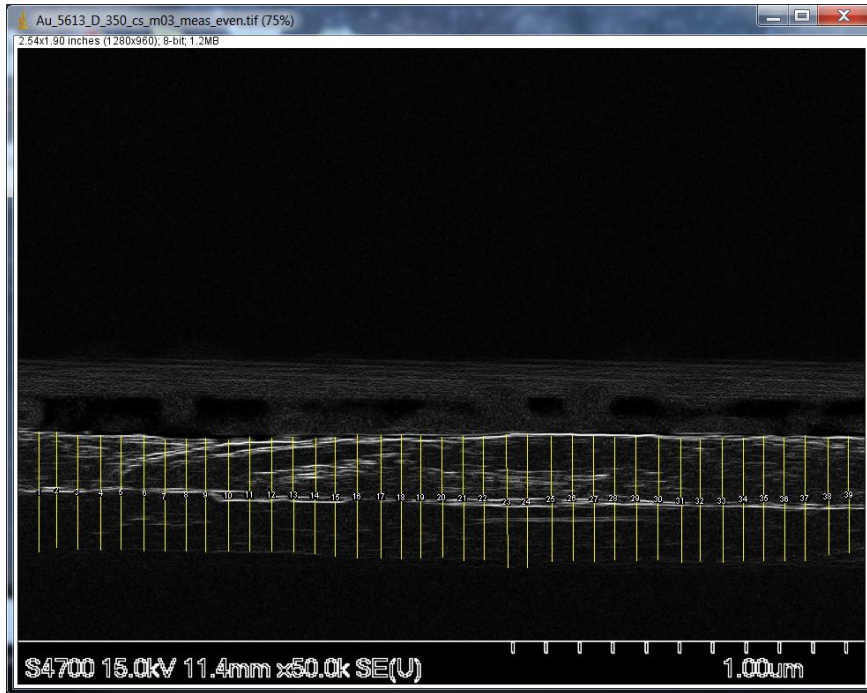


Foil thickness measurements & Elastic rate comparisons

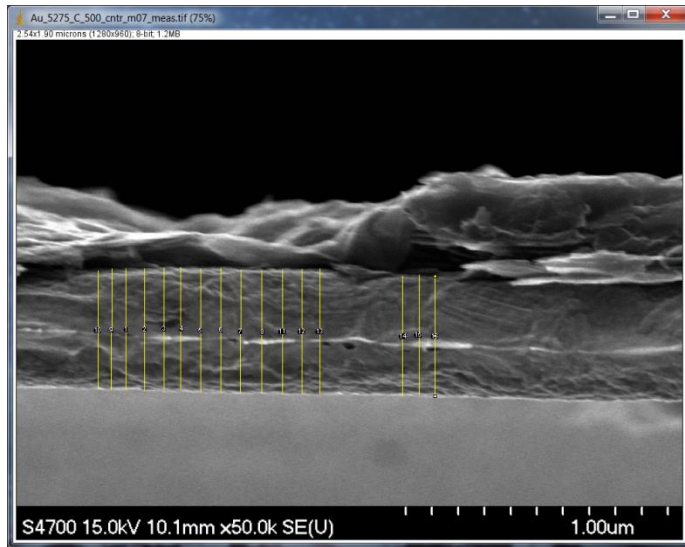
6809: 50 nm



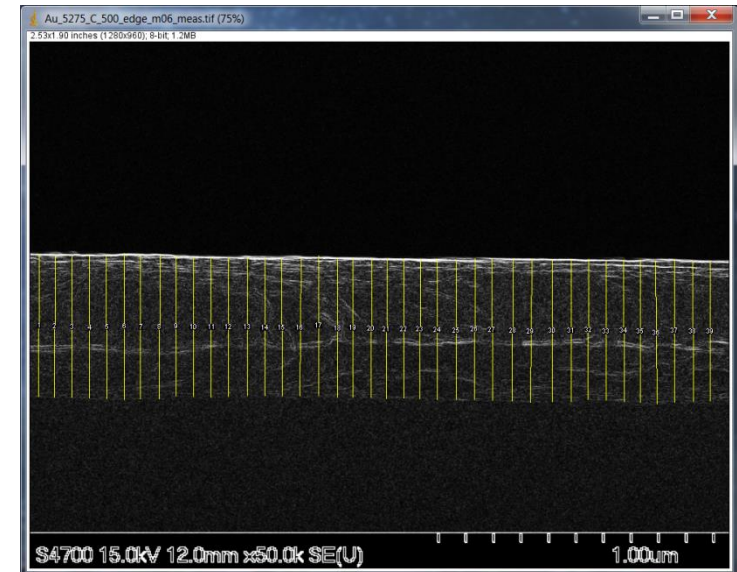
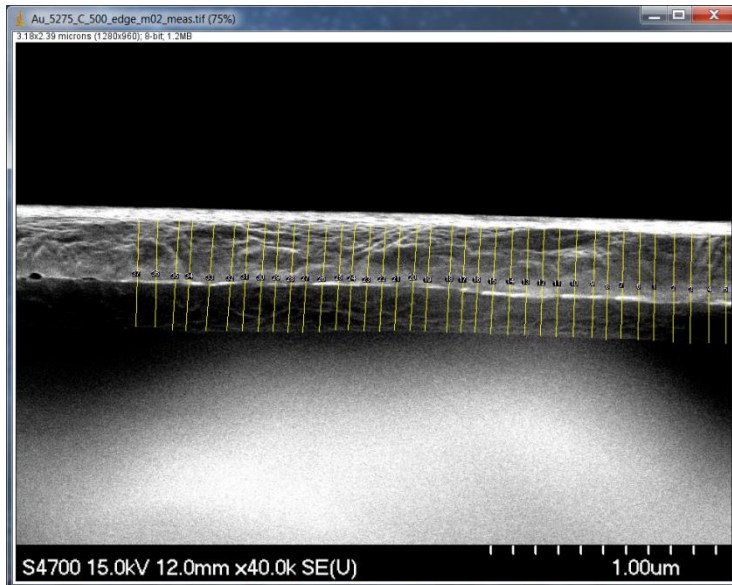
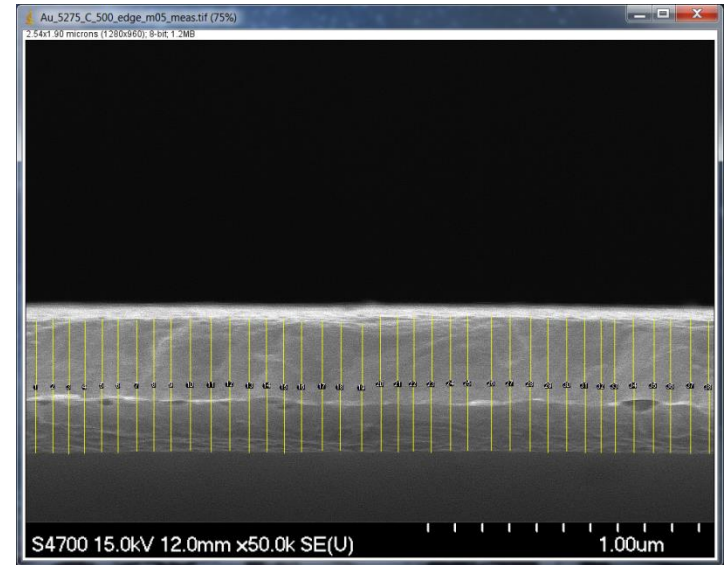
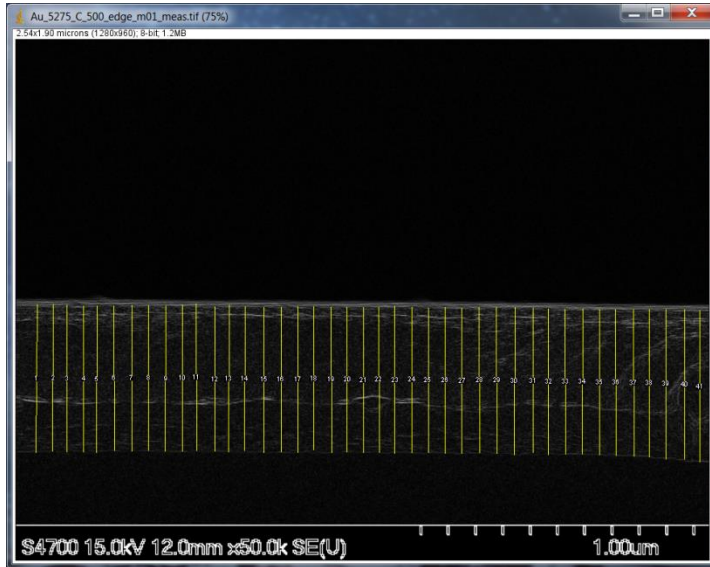
5613: 350 nm



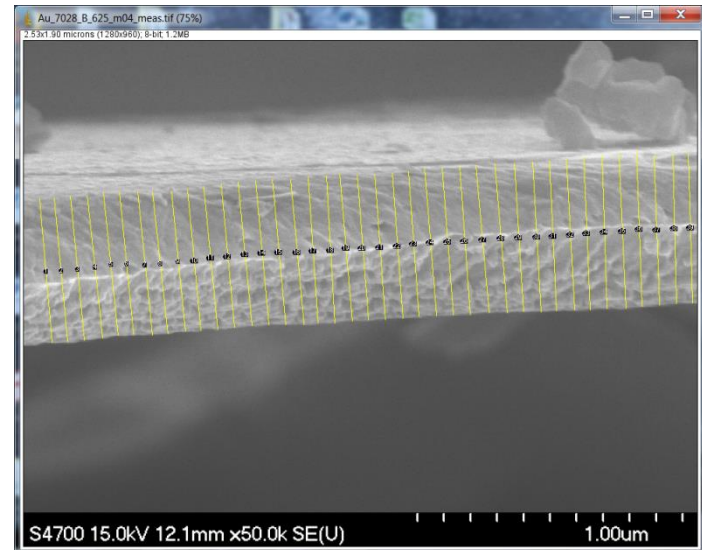
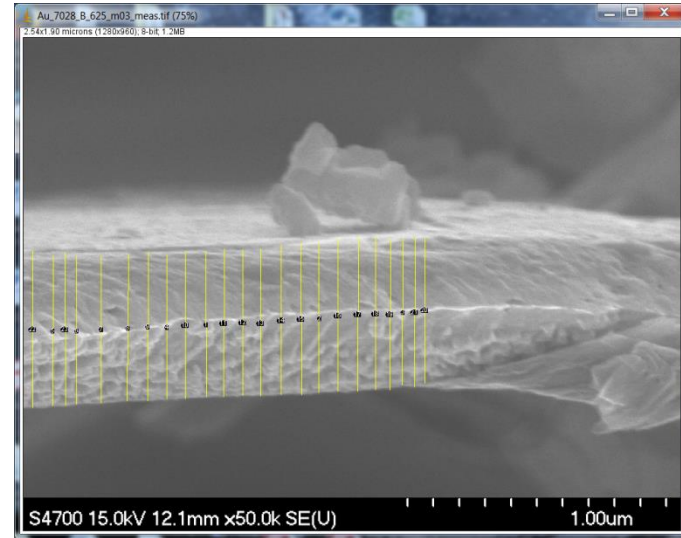
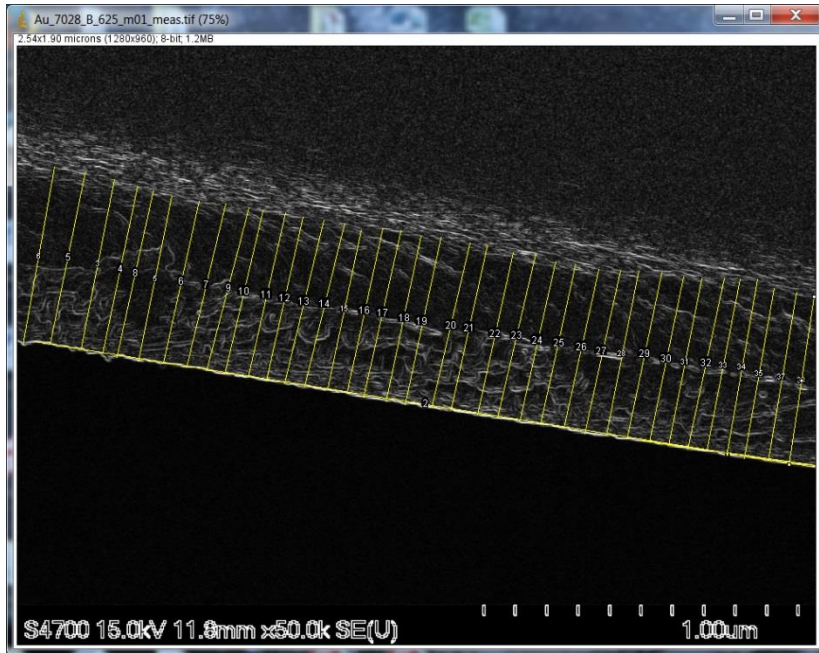
5275: 500 nm center



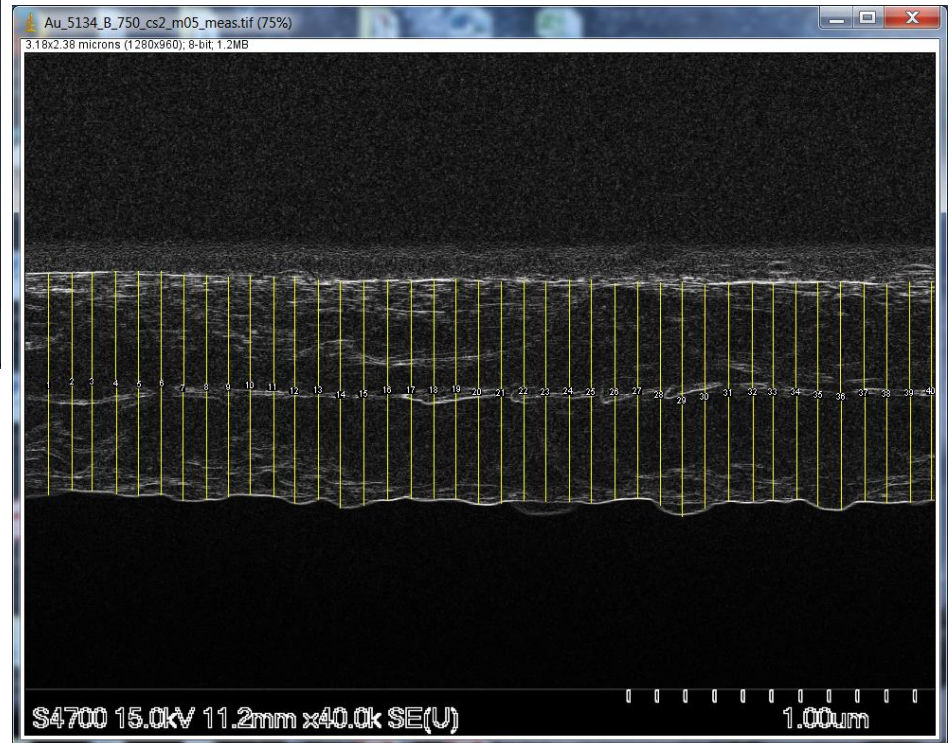
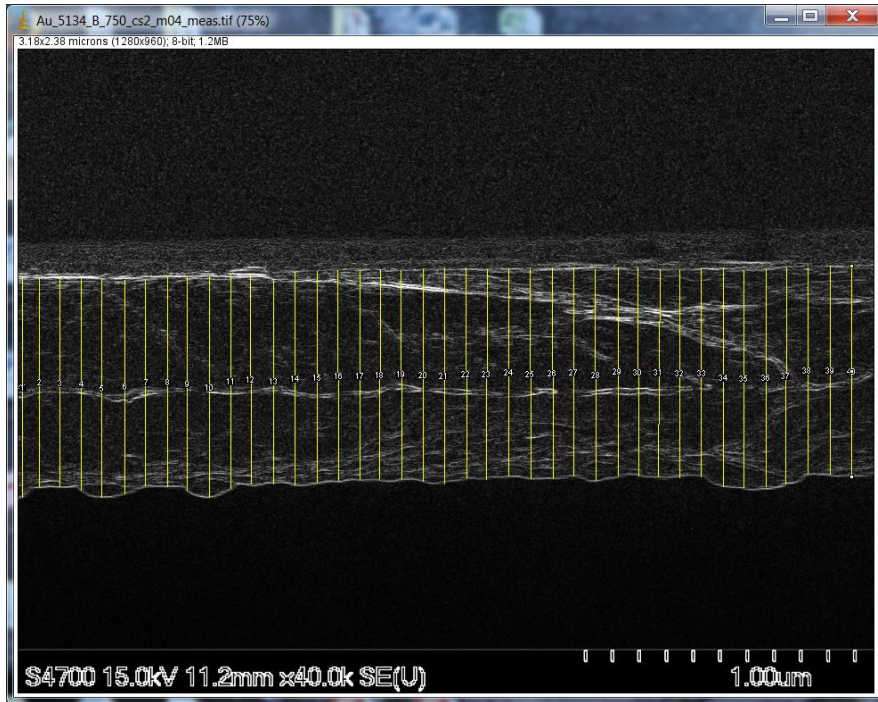
5275: 500 nm edge



7028: 625 nm



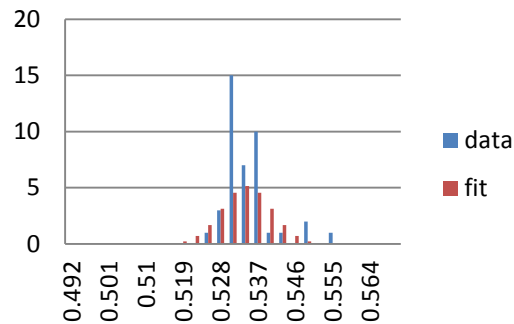
5134: 750 nm



Stat. evaluation of measurements

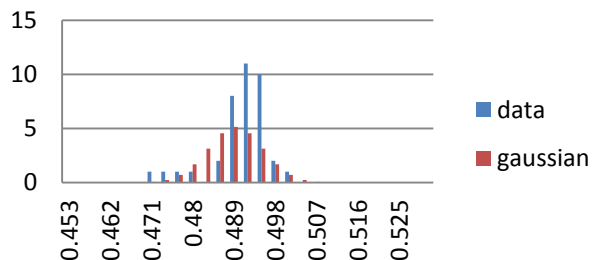
	edge				center
	m01	m02	m05	m06	m07
Mean	0.534	0.477	0.489	0.508	0.465
SD	0.006	0.007	0.006	0.007	0.008

5275_edge_01

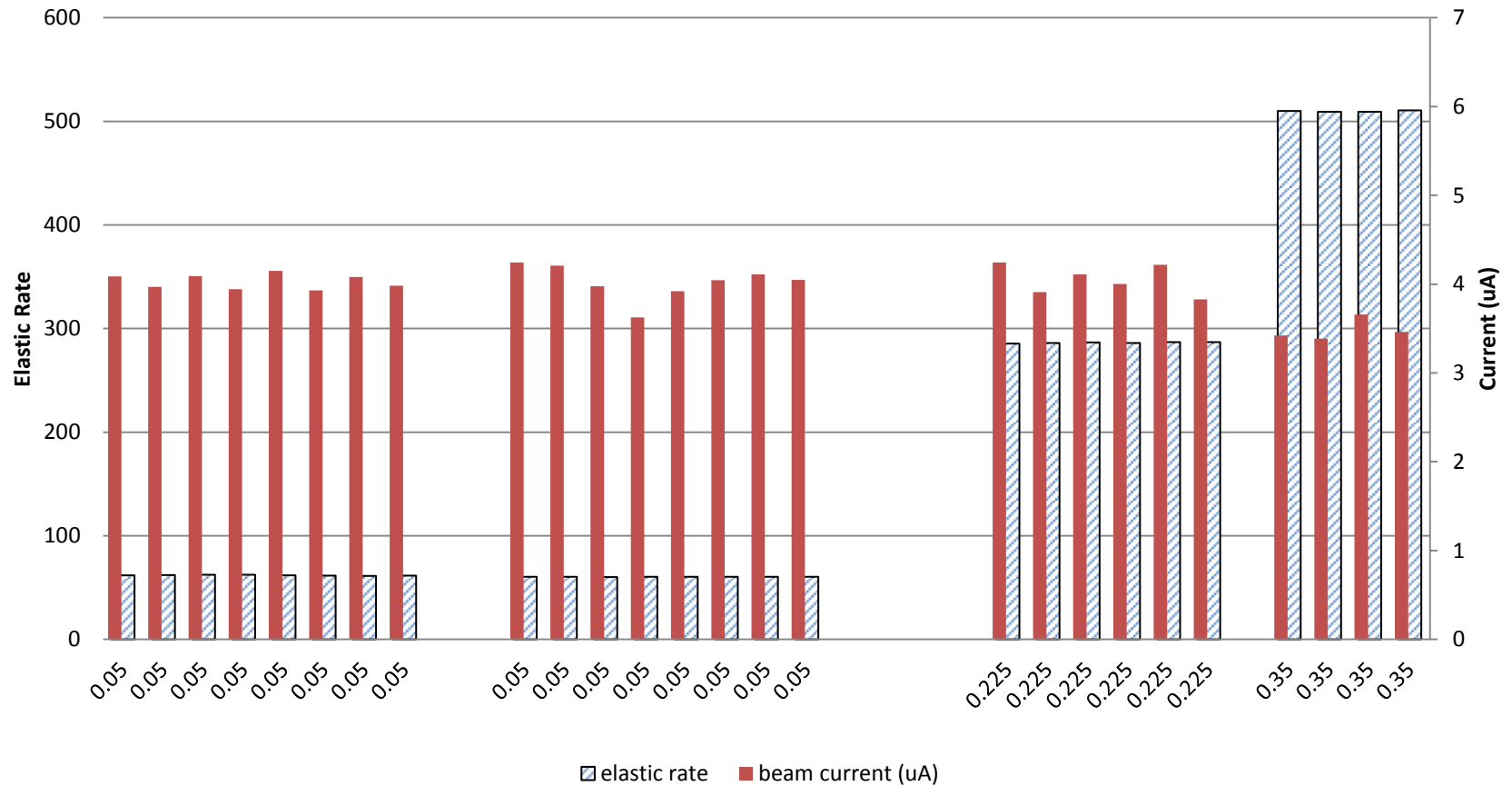


This data on the wiki at
Thickness_meas_summary.xlsx for all
measured data sets

5275_edge_05



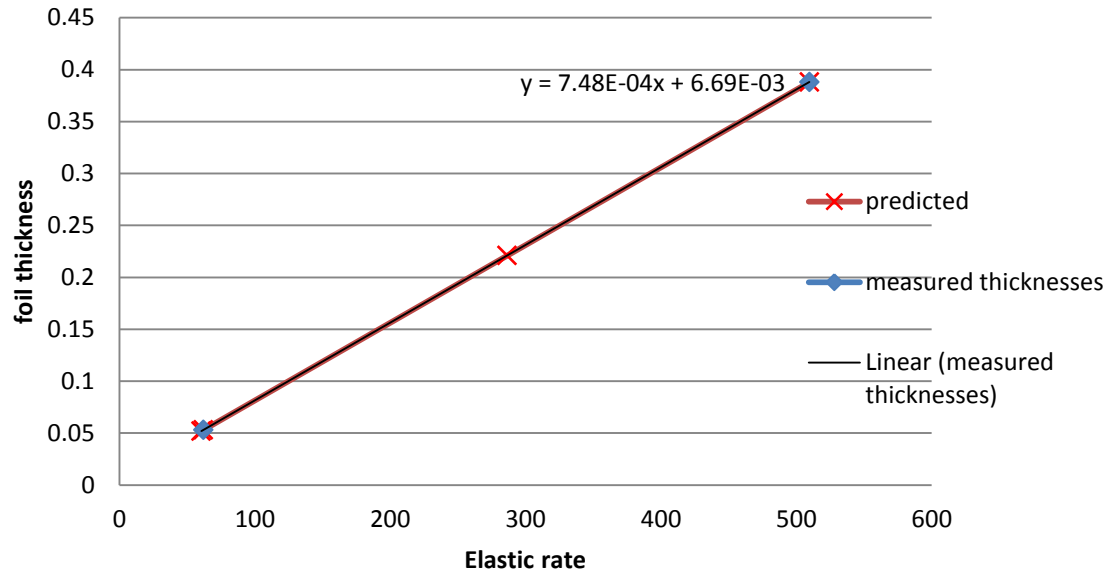
Elastic rate via TDC cut, high threshold



Elastic rate scaling for thickness

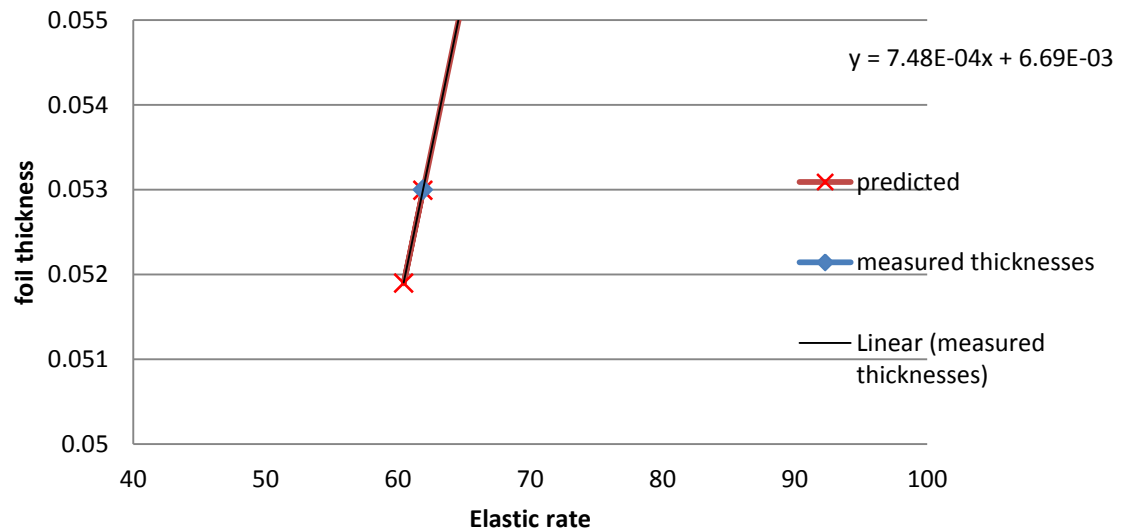
- We don't have sibling foil for 50 nm foil # 6845, but measured elastic rate of 60.4346 Hz/uA
- Use elastic rates and measured thickness for other ~50 nm foil, 350 nm foils

predicting thickness from elastic rates

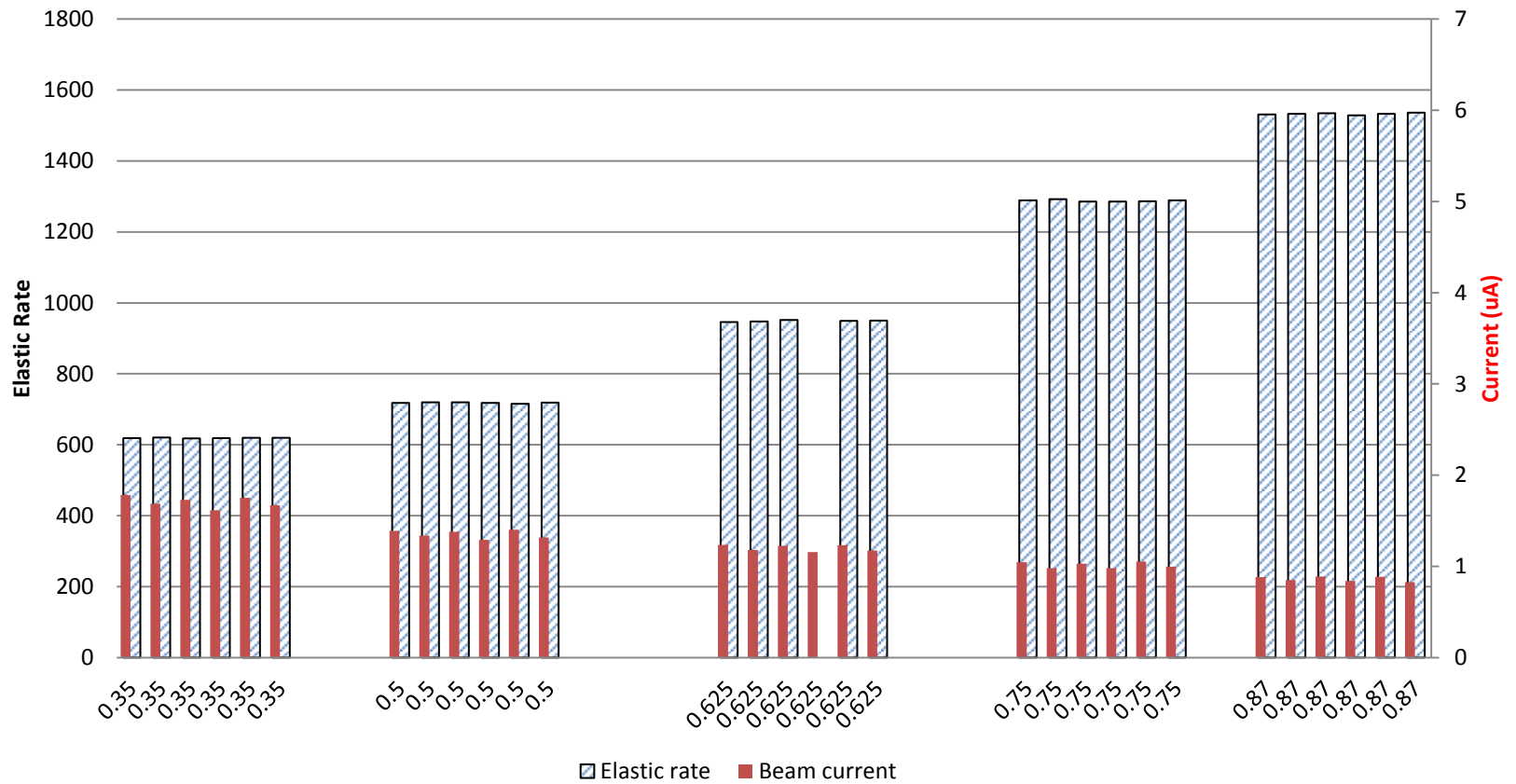


Conclude foil 6845 ~51.9 nm

predicting thickness from elastic rates

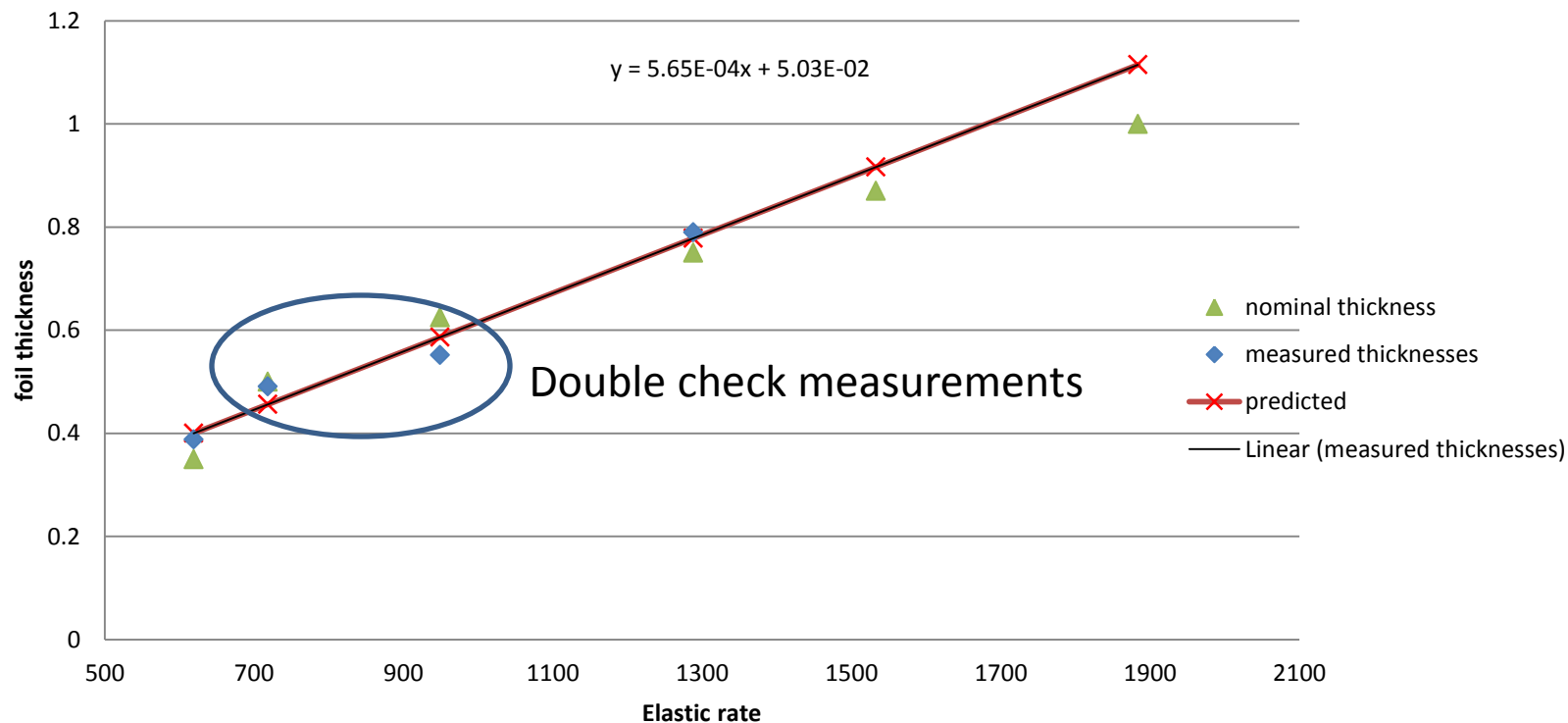


Elastic rate via TDC cut, low threshold



Preliminary: predicted thickness from elastics, low threshold

predicting thickness from elastic rates

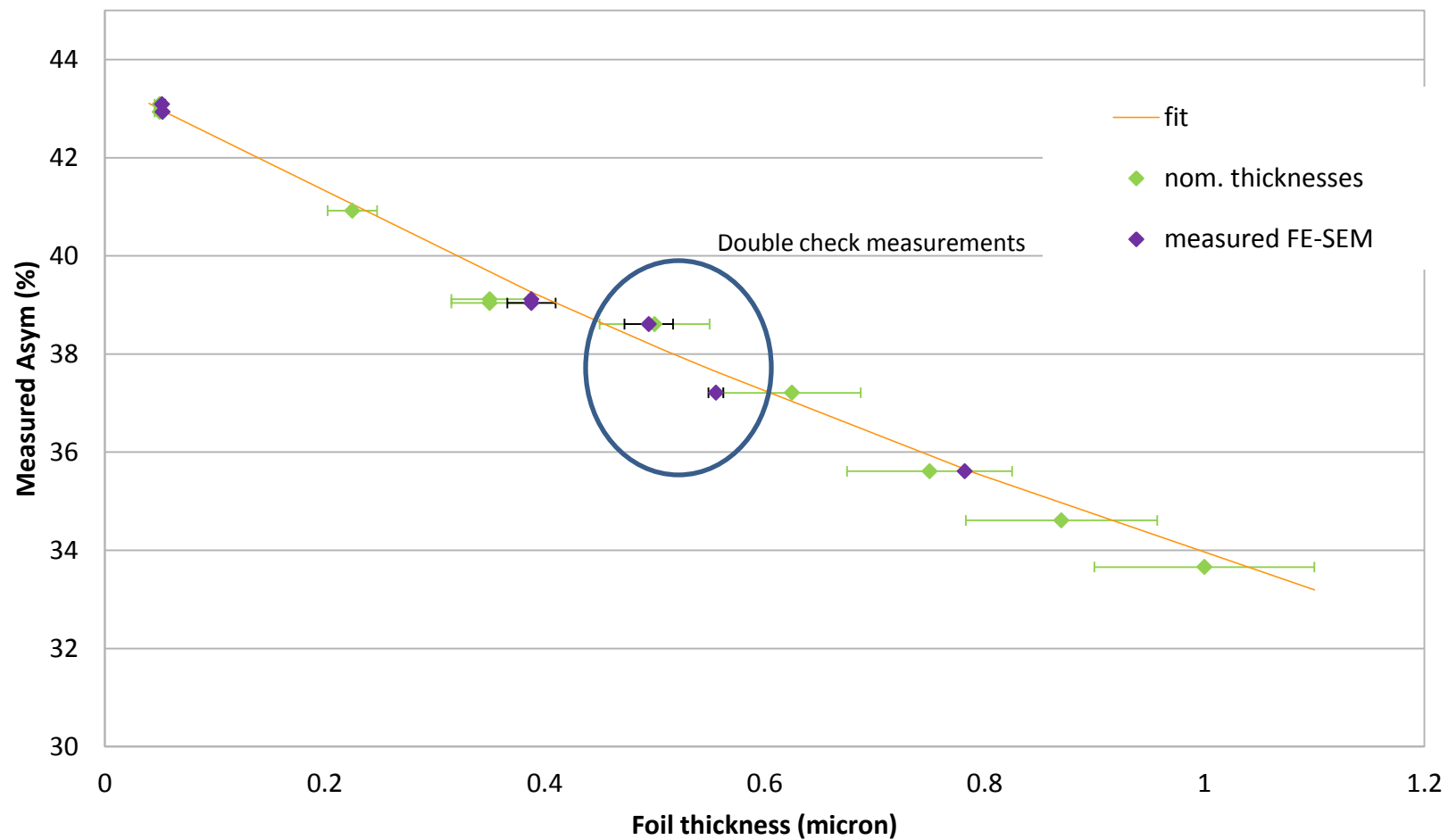


Data that looks to be most “off” from fit line:

500 nm seems like it should be thinner

625 nm foil seems to have been measured too thin – should be thicker

Asymmetry vs. Foil thickness

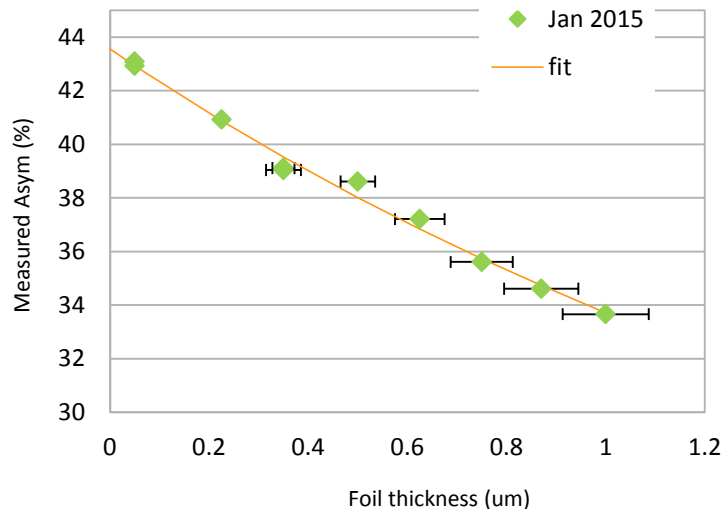


Polarization from zero crossing

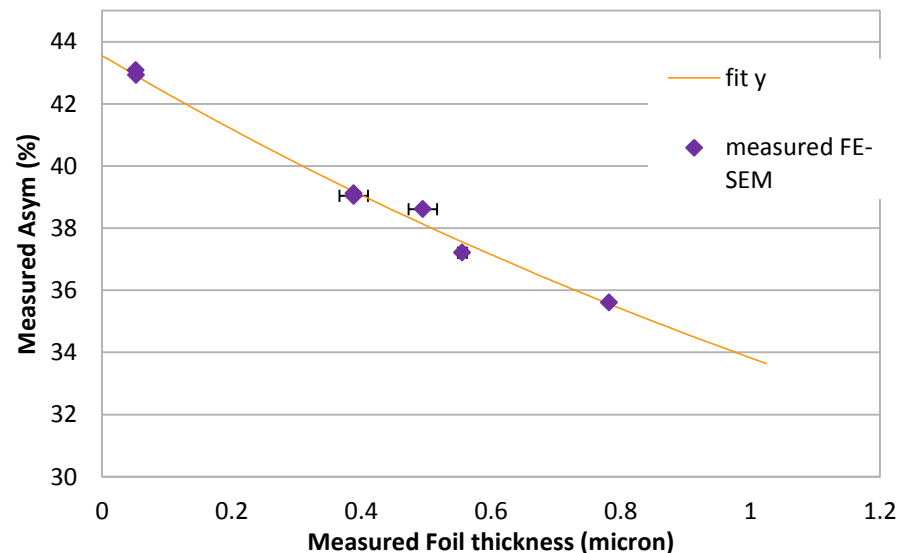
- Sherman function, 173 degrees, -.51

	t=0 asym	Beam polarization
Nominal thicknesses	43.5605	85.413%
Measured thicknesses	43.5535	85.399%

Asymmetry vs. Nominal Foil thickness



Asymmetry vs. measured Foil thickness



Analyzing power

