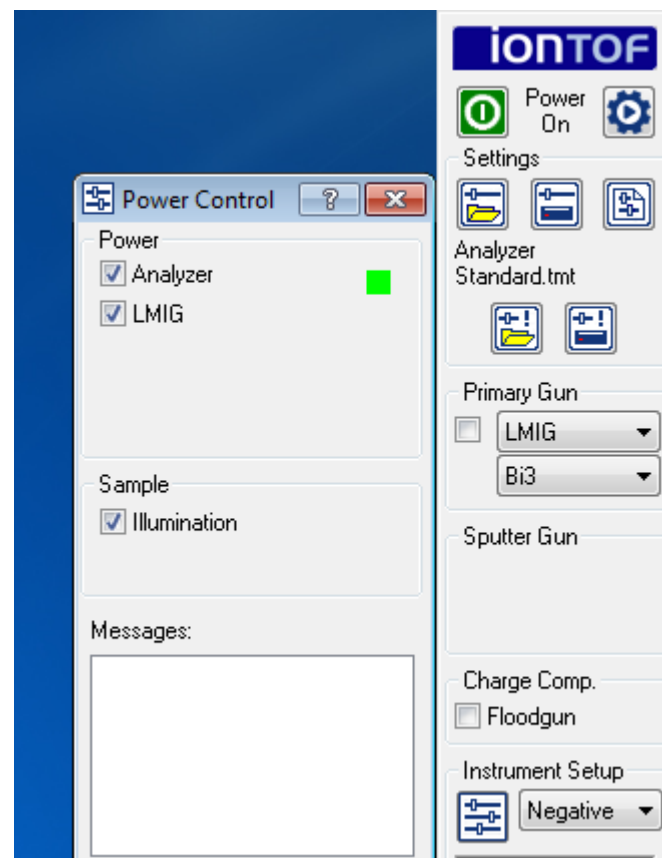
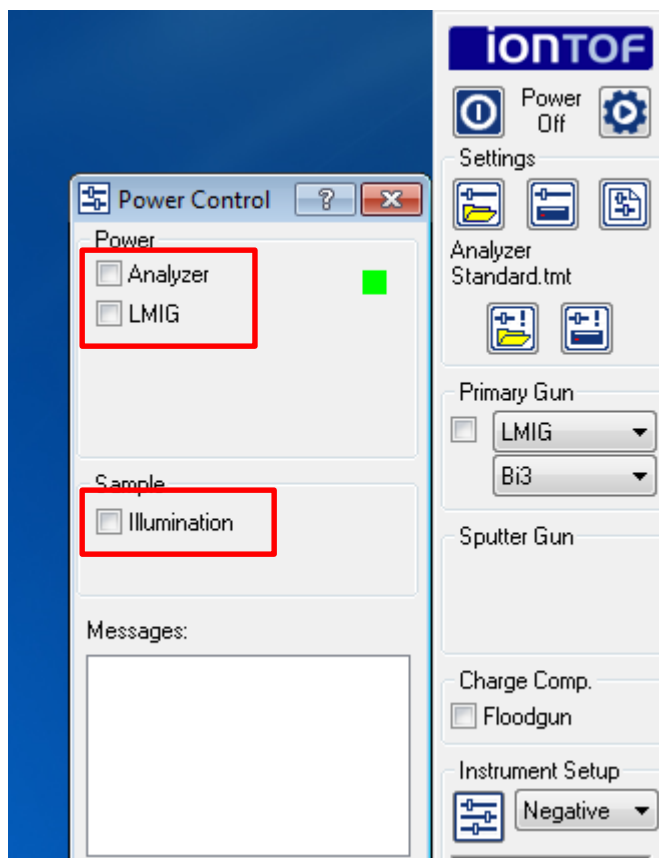


Investigating Corrosion at the Metal-Paint Interface Using Time-of-Flight Secondary Ion Mass Spectrometry

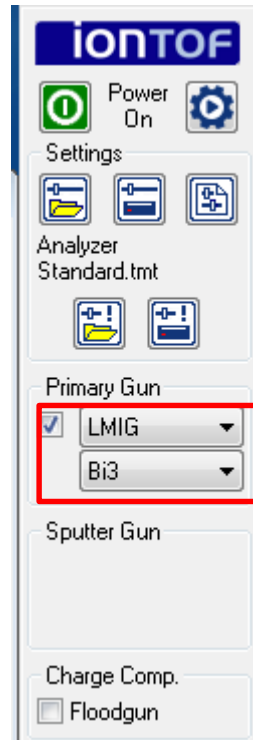
Software Screenshots

Jennifer Yao

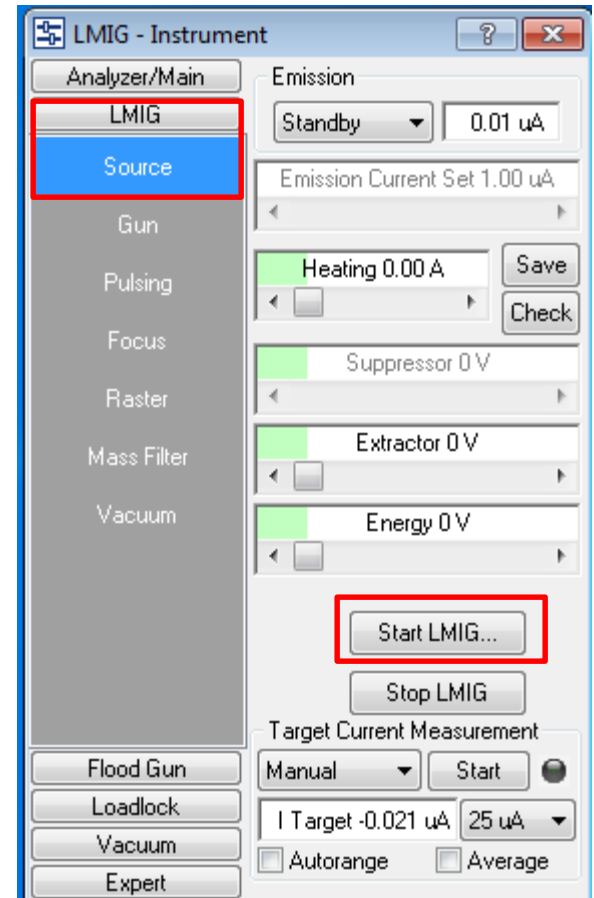
Step 2.1.3
Power on
Analyzer,
LMIG,
Illumination



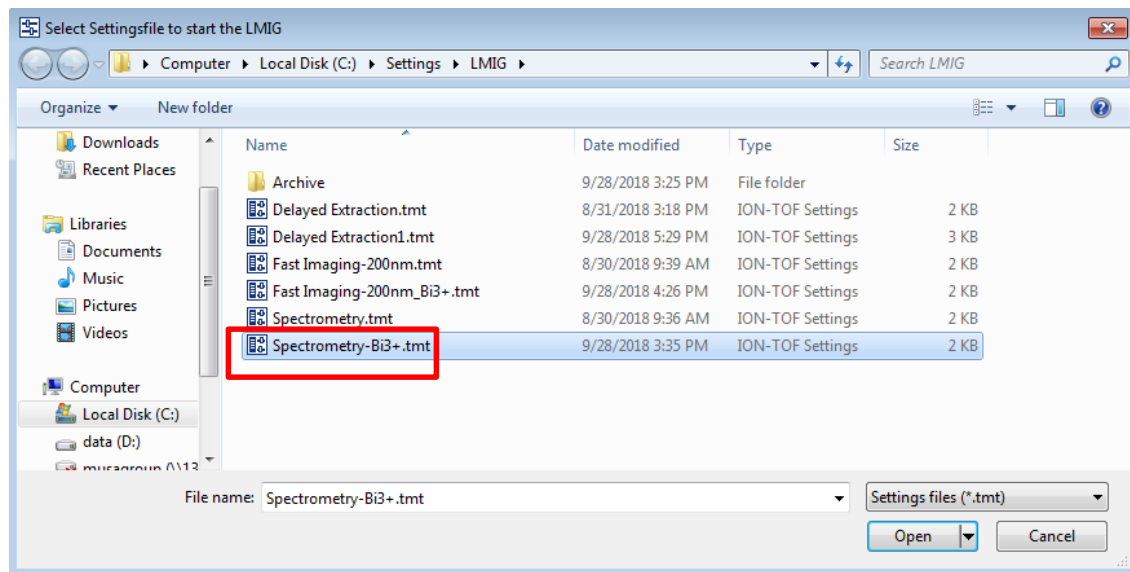
Step 2.2.1.
Check the box of LMIG



Step 2.2.1.
Start LMIG

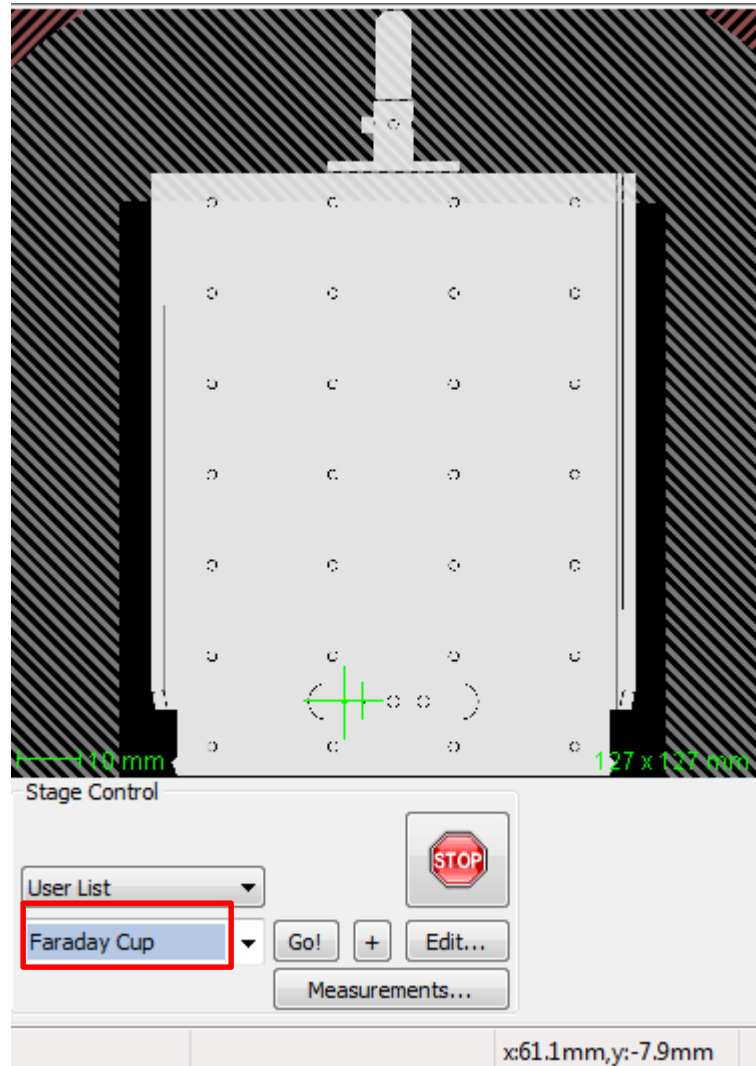


Step 2.2.1. Select predefined setting file

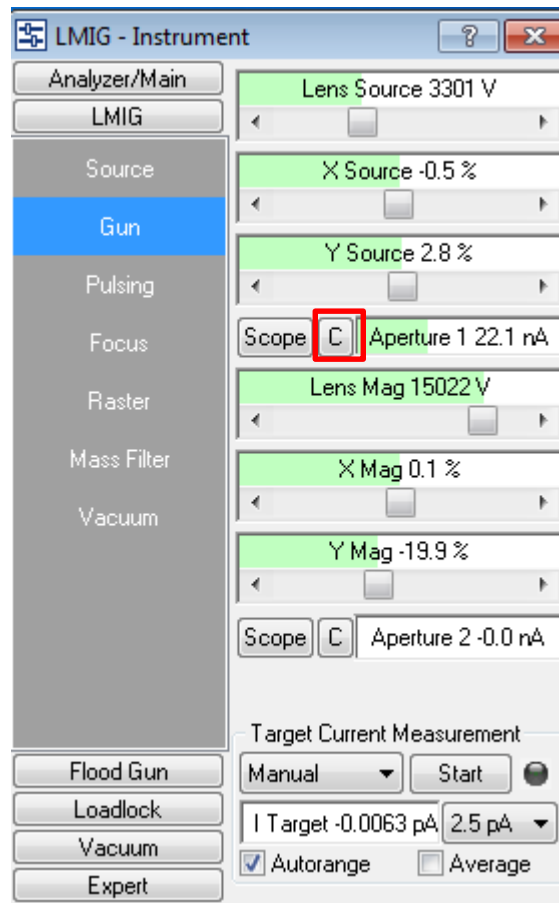


Step: 2.3.1

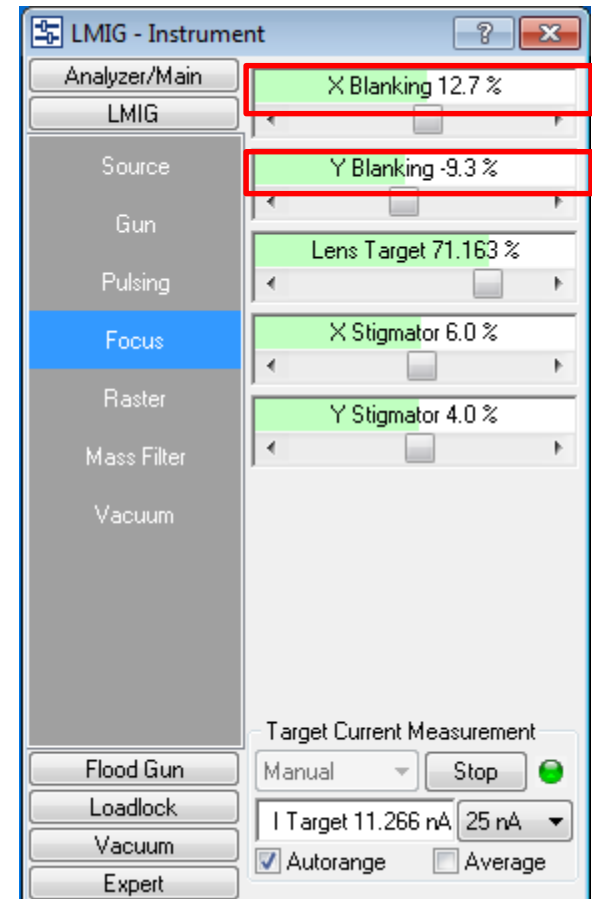
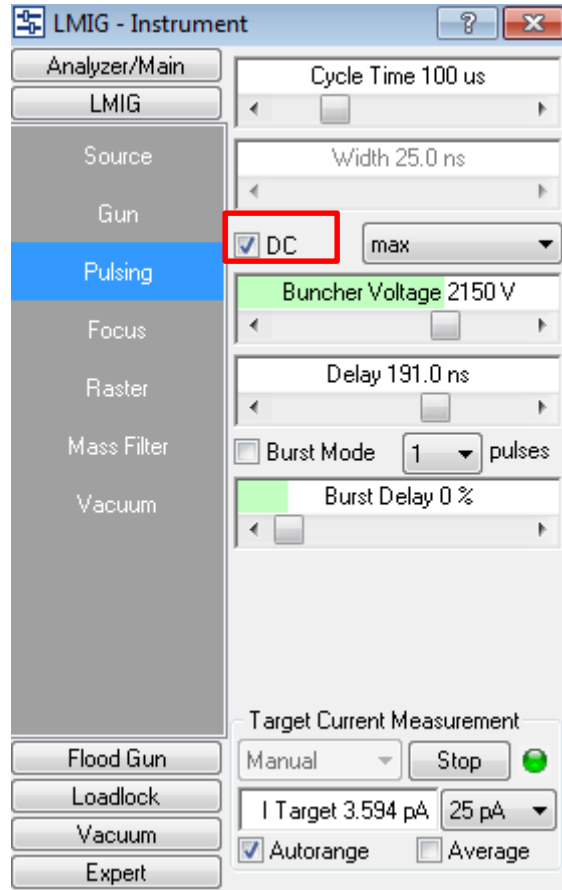
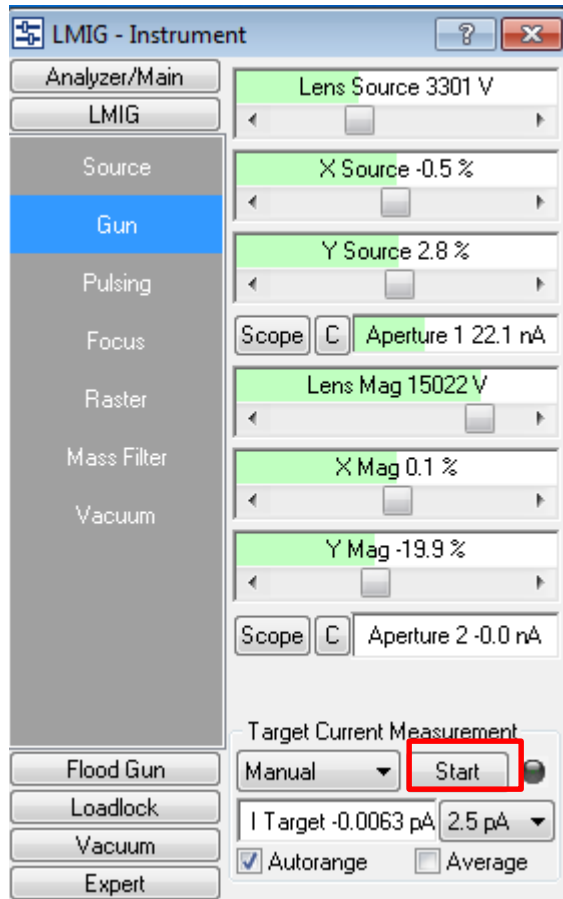
Select Faraday Cup



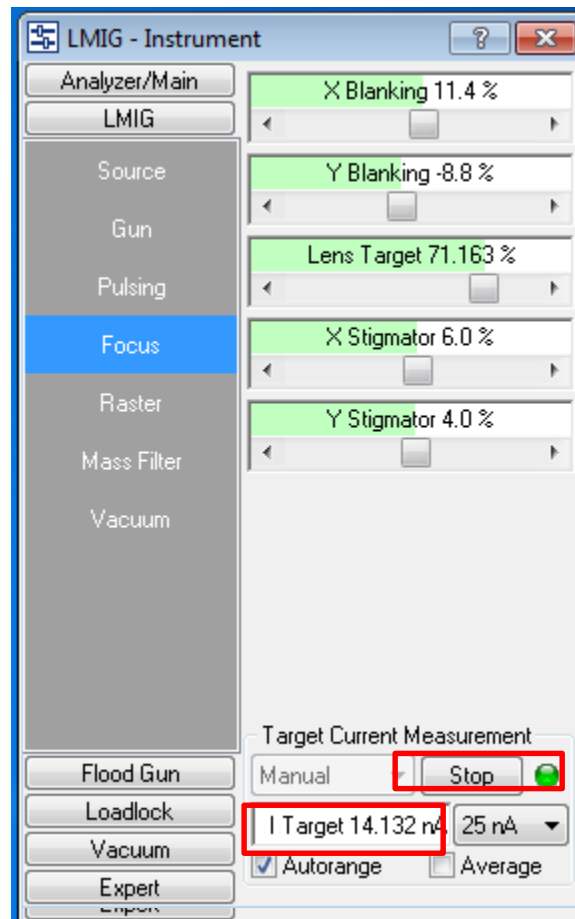
Step: 2.4.1. Auto-align the LIMG



Step 2.4.2. Measure the target current

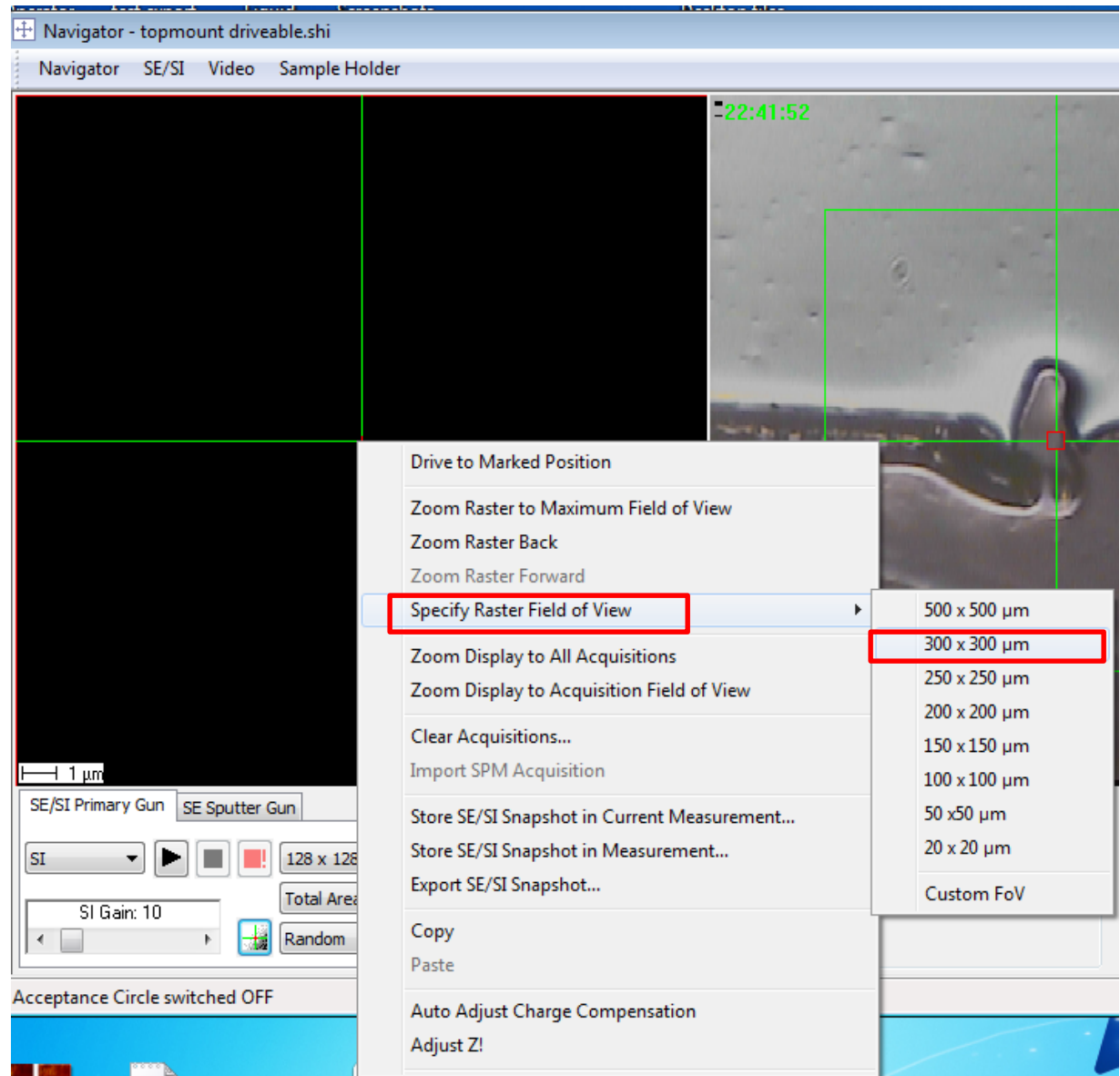


Step 2.4.4. Stop the target current measurement



Step 2.6.1

Select the field of view



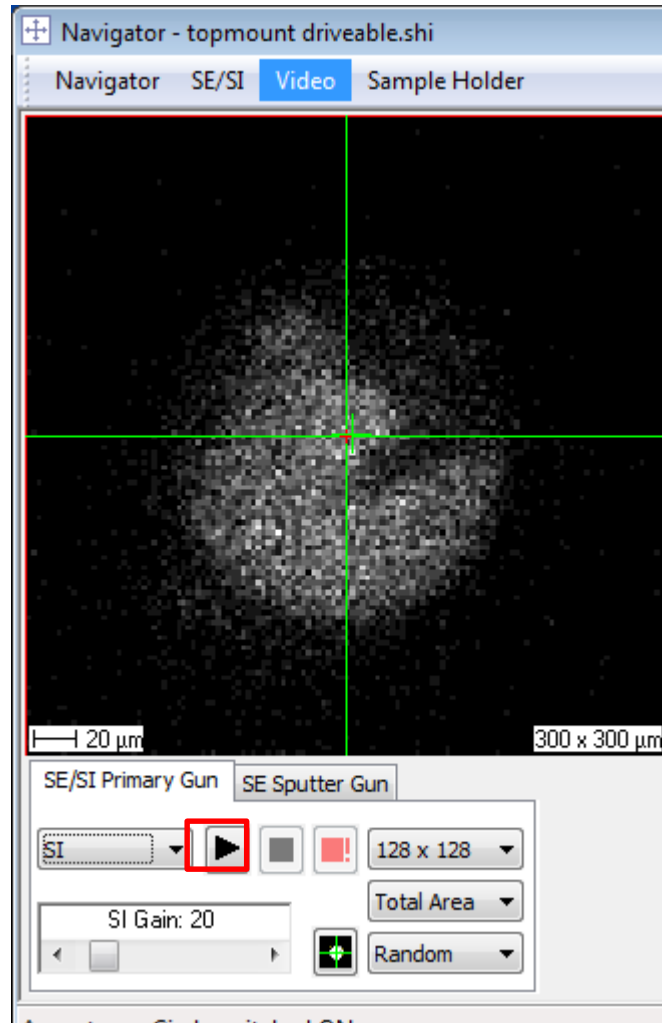
Step 2.6.1

Select SI signal, raster size and raster type.



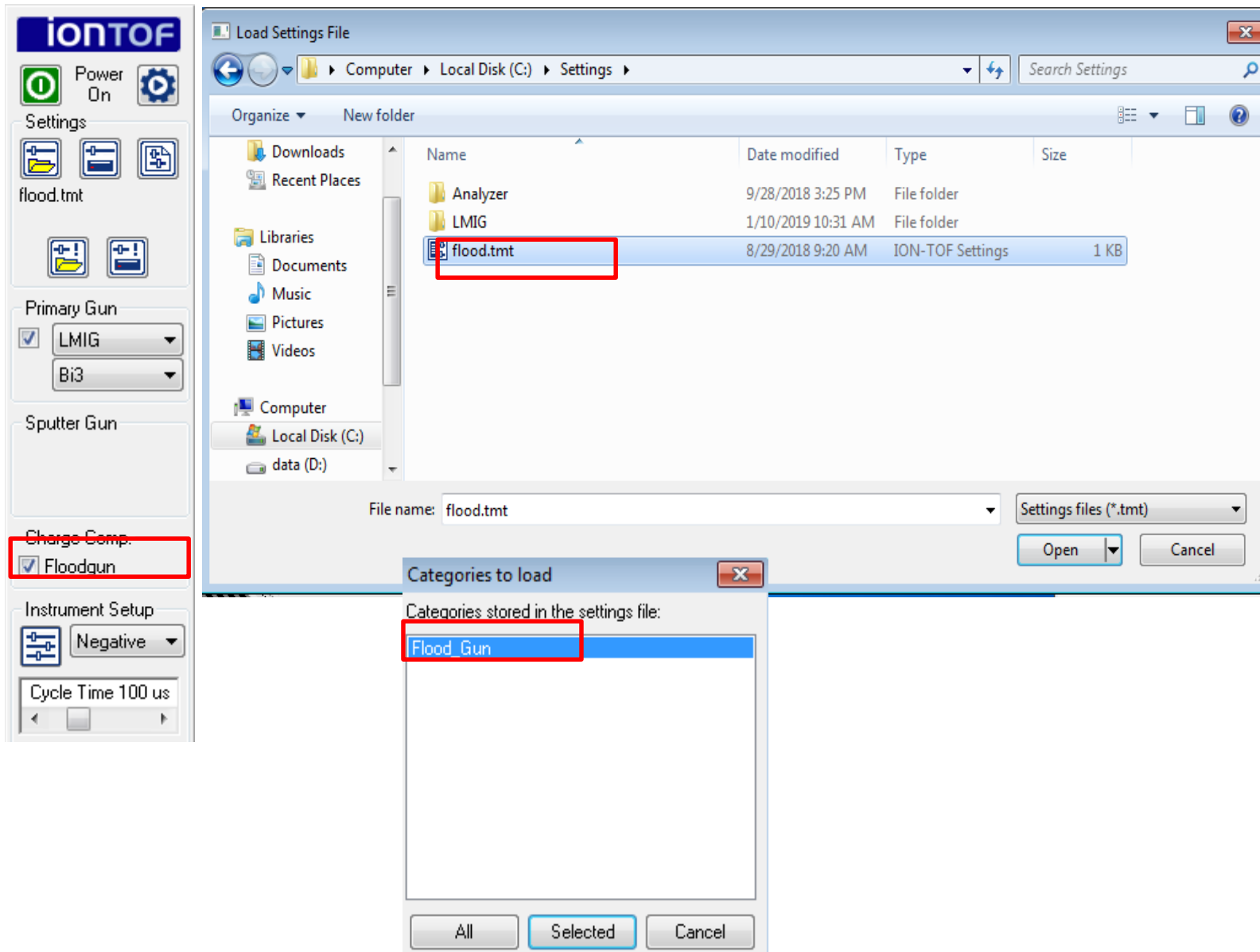
Step 2.7.1

Select SI signal, raster size and raster type.

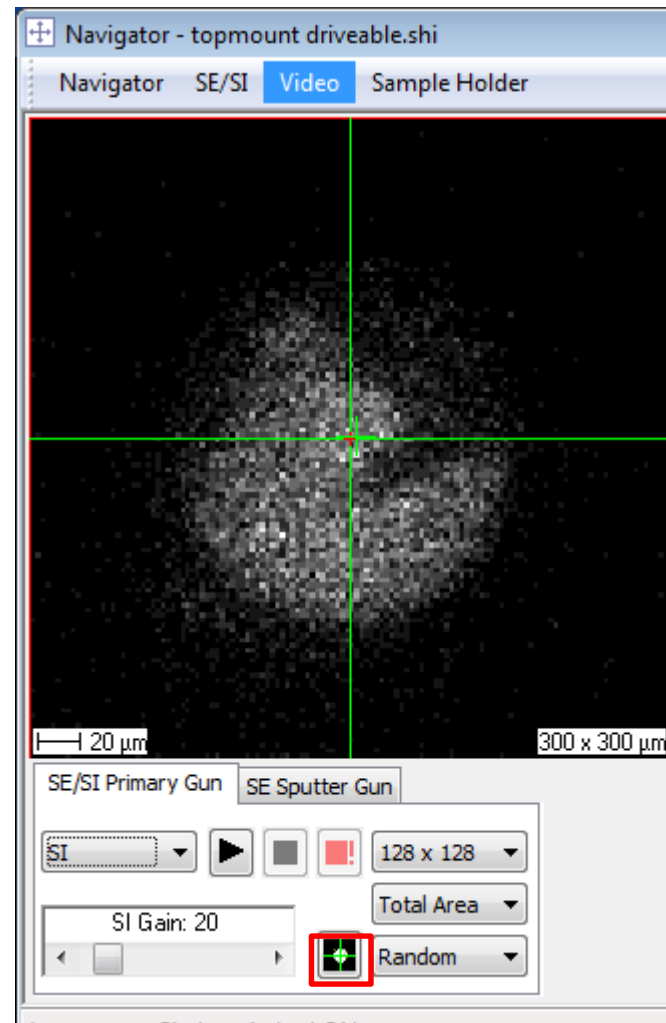
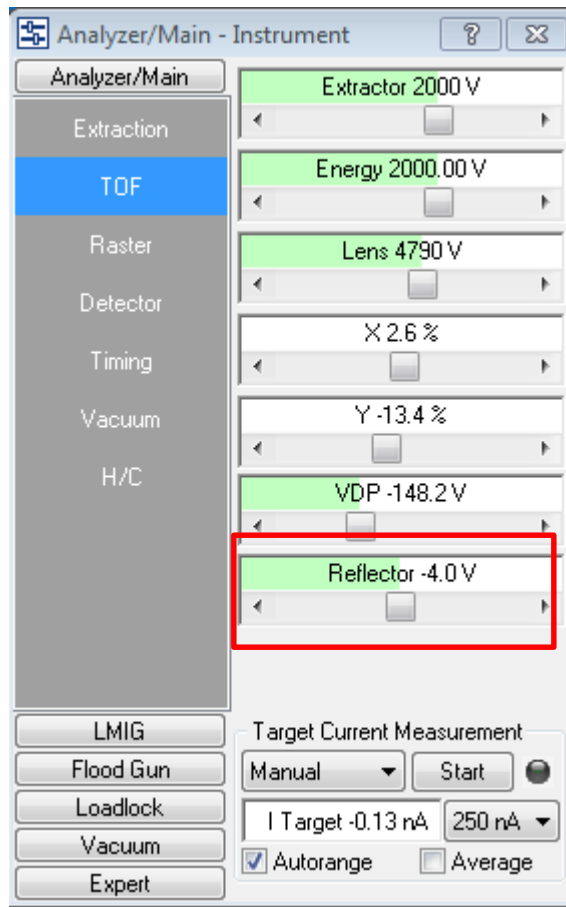


Step 2.8.1

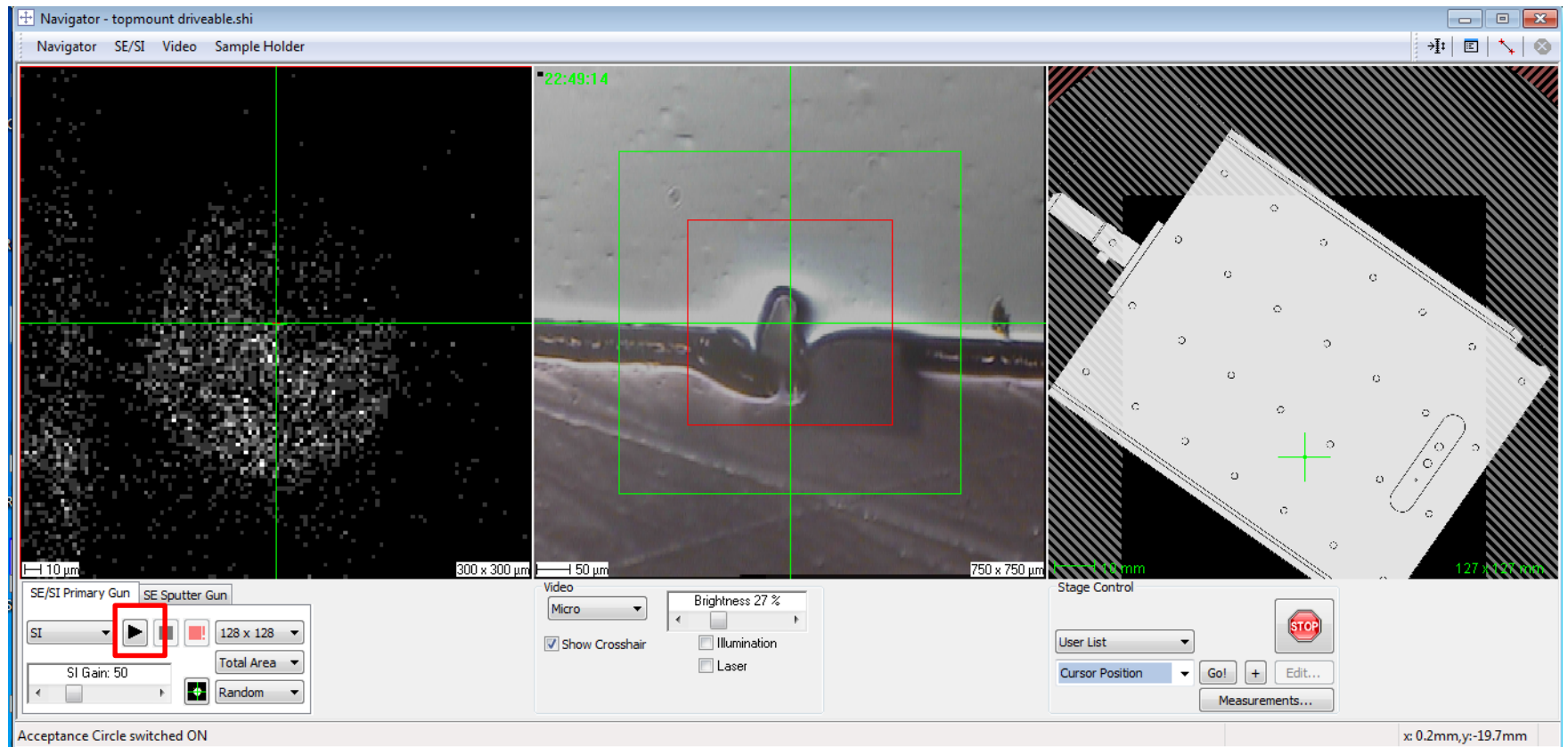
Select SI signal, raster size and raster type.



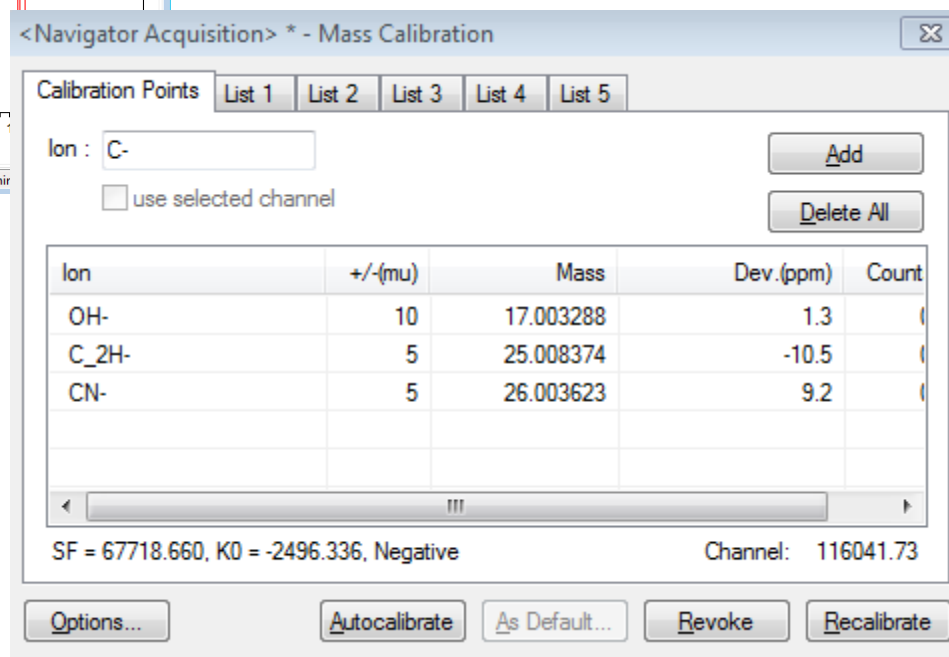
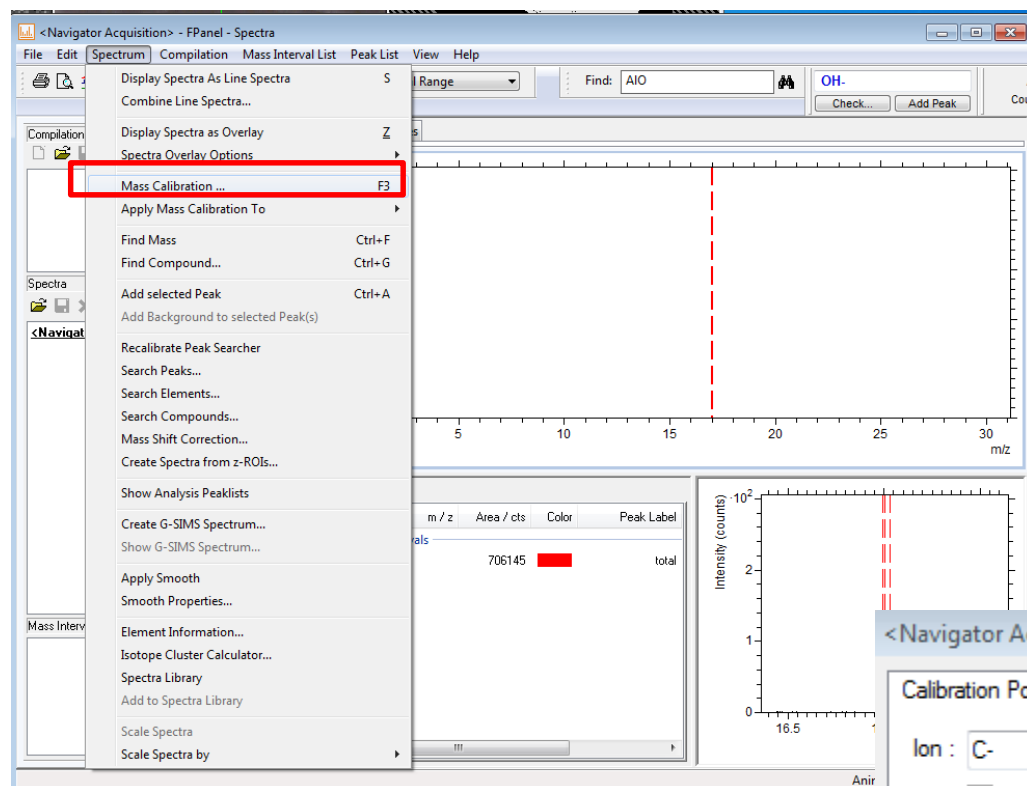
Step 2.9.1. Adjust reflector voltage



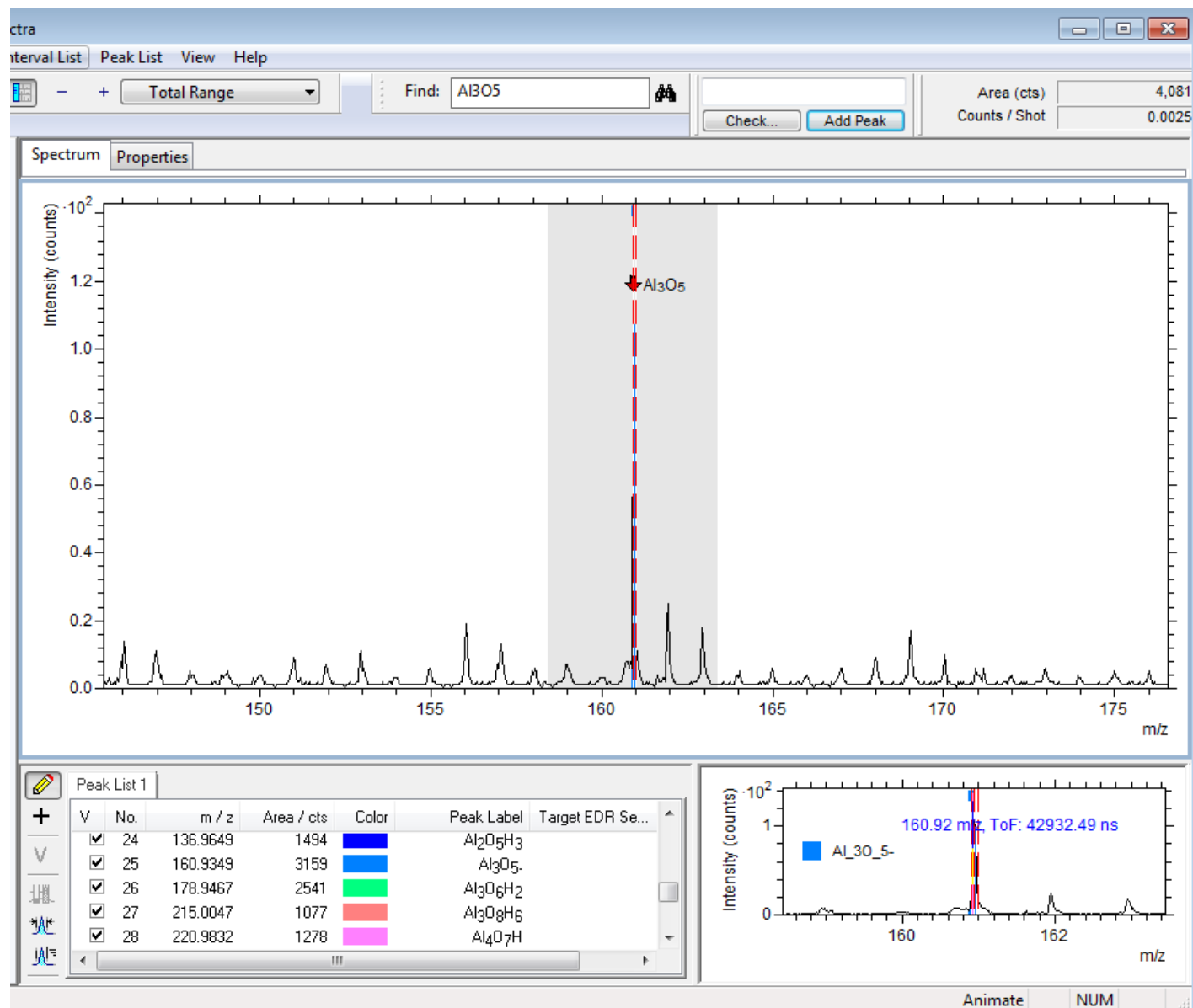
Step: 2.10.1.



2.11.1. Mass calibration



Step: 2.11.2



Step 2.12.1

Start Measurement

2D

Basics

Misc

2D Large Area

3D

Raster

☒ random 128 x 128 Pixel

1 shots/pixe Edit ROI...

☒ Total Area

☒ Use field of view from navigator

Stop Conditions

☐ Acquisition Time 100.0 seconds

☒ Number of Scans 60

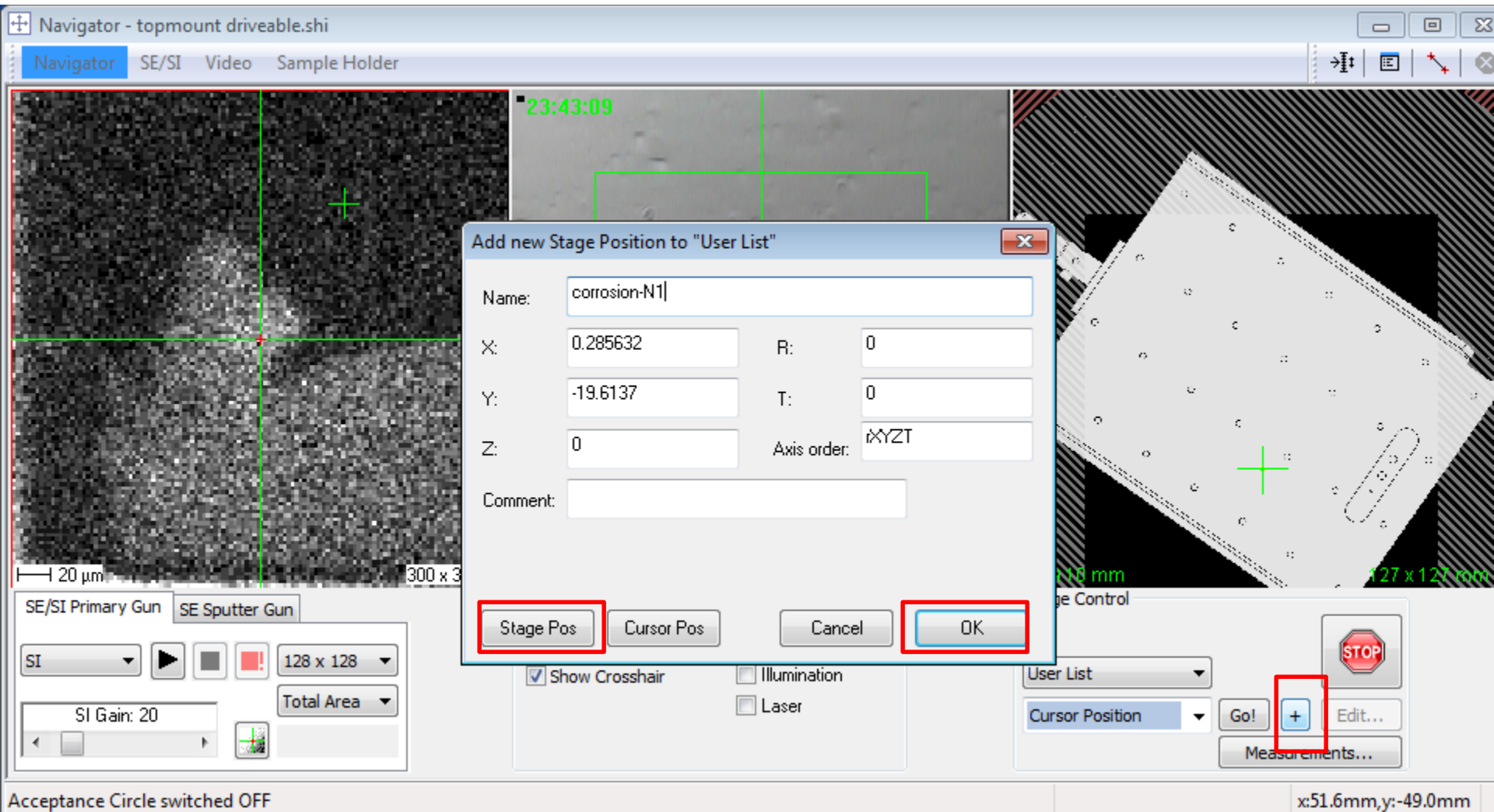
☐ Dose Density Limit

Primary Gun Current: 1 pA

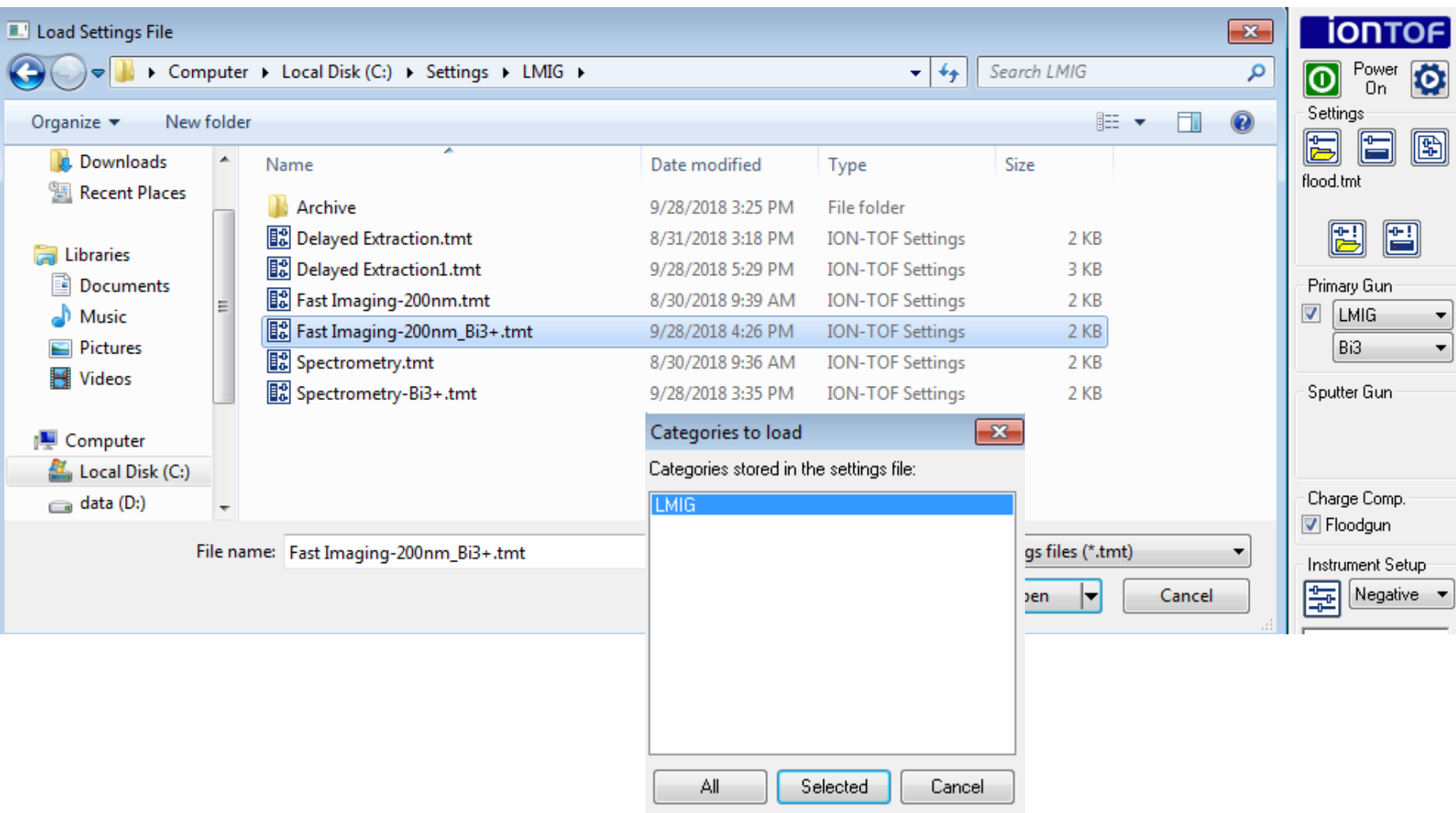
Dose Density Limit 0 ions/cm²

OK Cancel Help

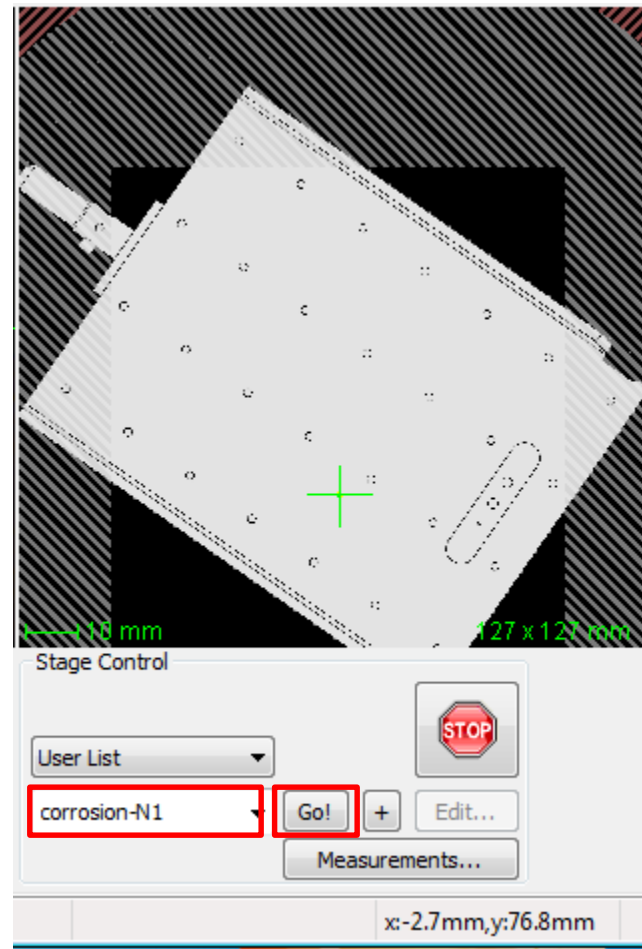
Step 2.13.1



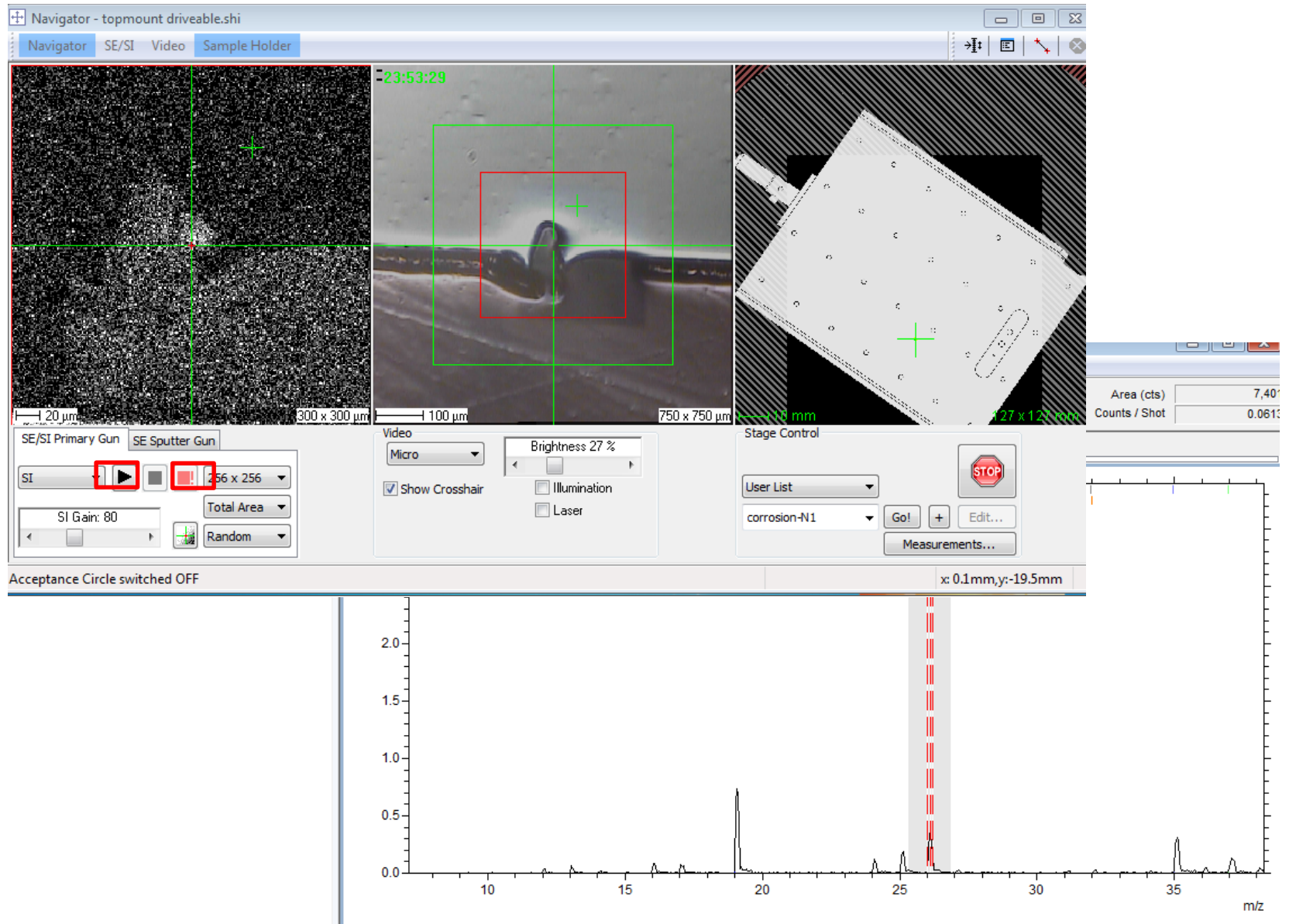
Step: 2.13.1



Step: 2.14.1



Step: 2.14.2



Step 2.15.1

Start Measurement

2D Basics Misc

2D Large Area 3D

Raster

☒ random 256 x 256 Pixel

1 shots/pixel Edit ROI...

☒ Total Area

☒ Use field of view from navigator

Stop Conditions

☐ Acquisition Time 100.0 seconds

☒ Number of Scans 150

☐ Dose Density Limit

Primary Gun Current: 1 pA

Dose Density Limit: 0 ions/cm²

OK Cancel Help