

Update of laser test on TC2

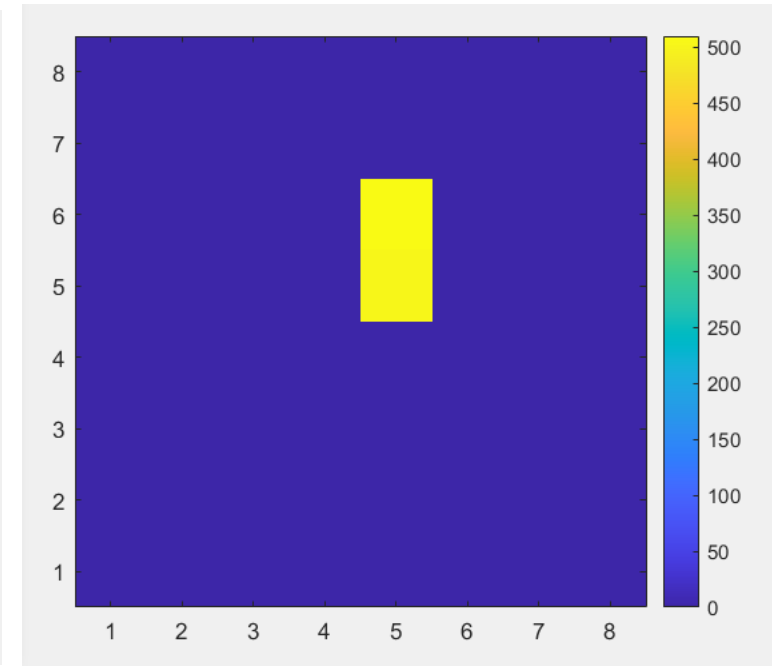
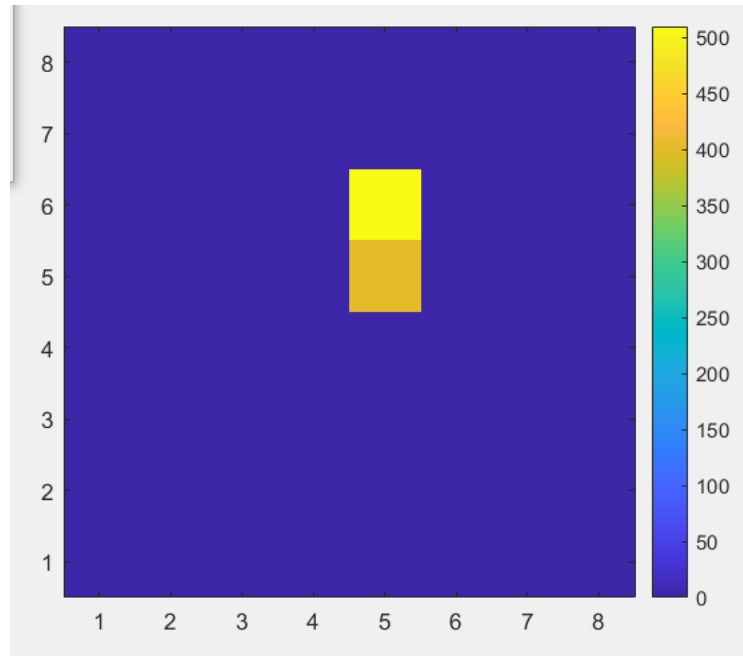
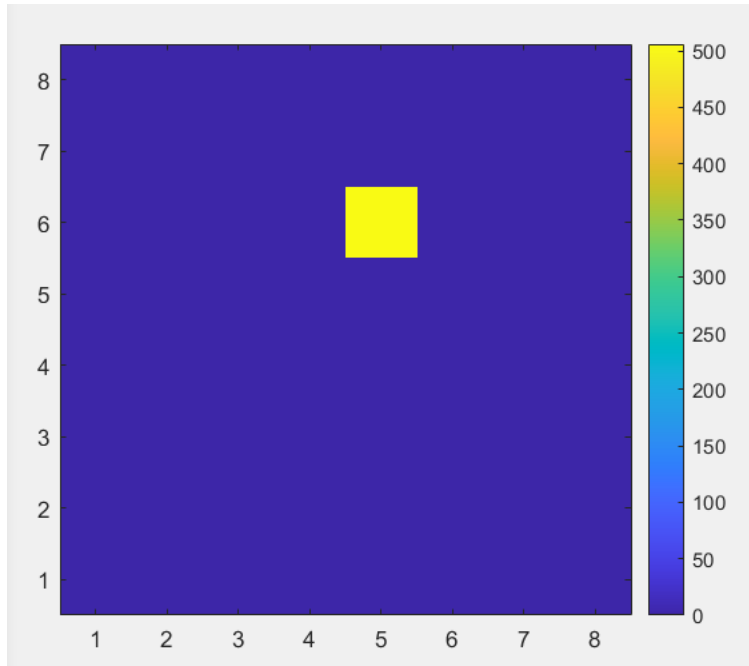
Wei Wang

Setup

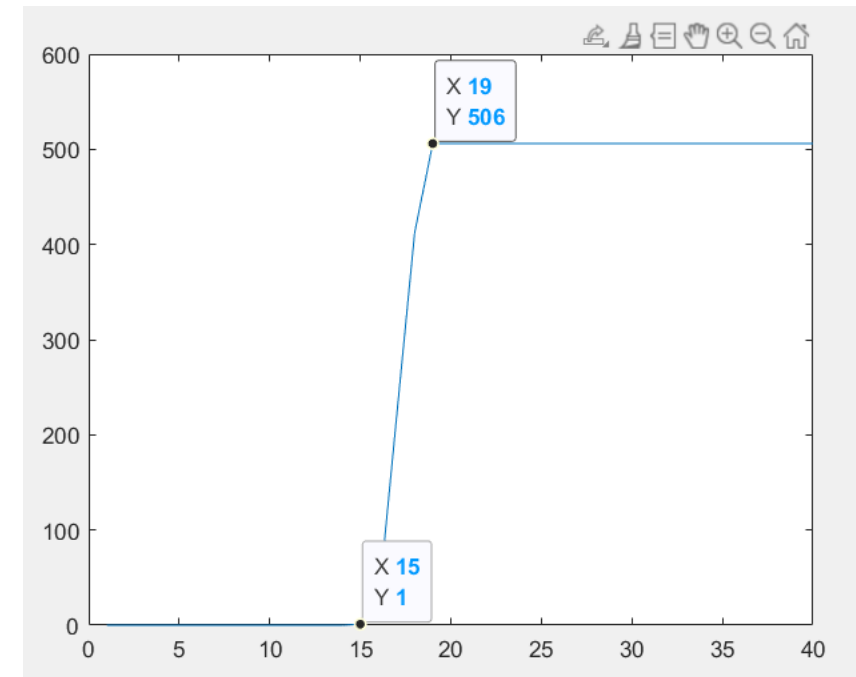
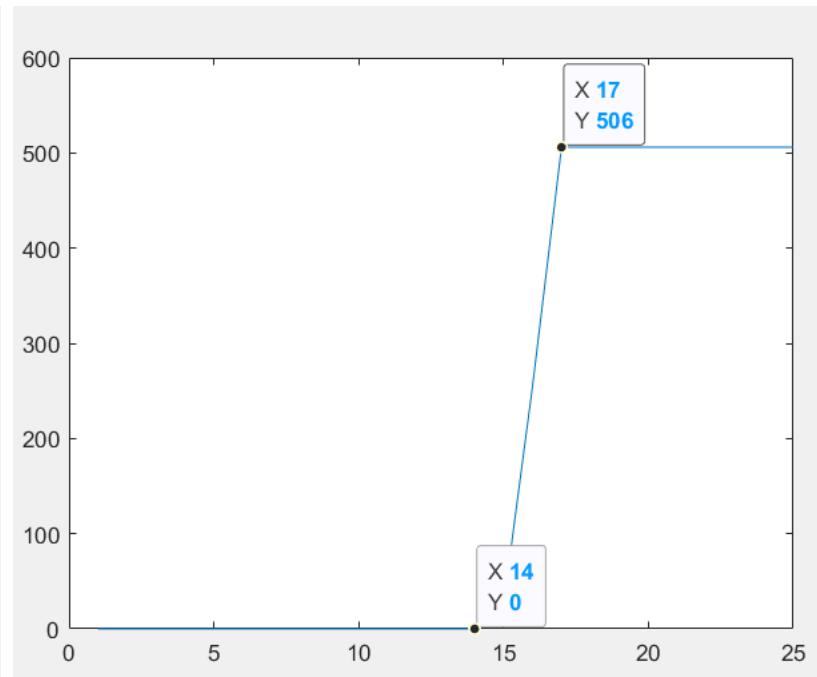
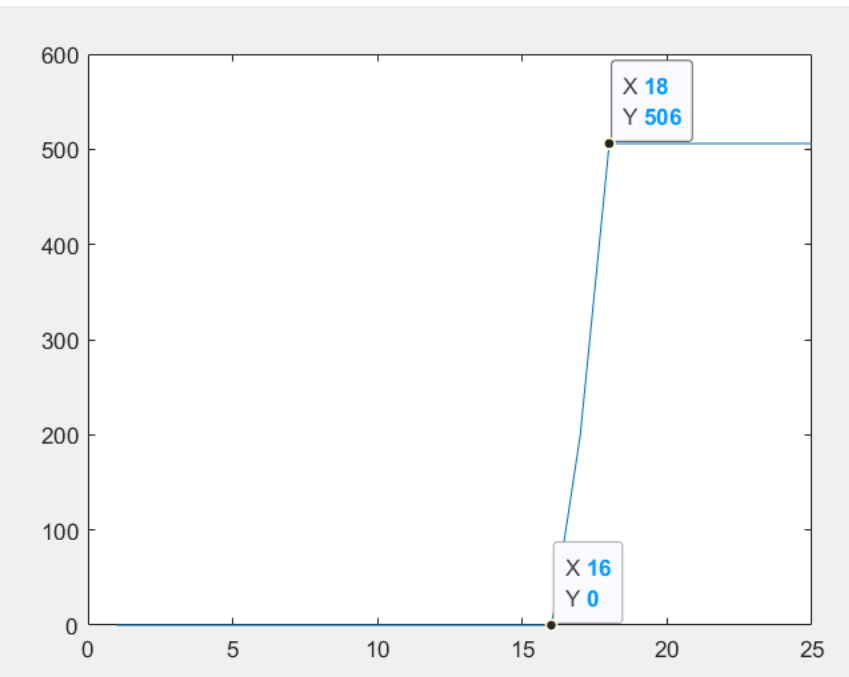
- Laser shot from the back
- Updated voltage and DAC configurations (lower threshold)
- Test area: 8x8 pixels
- Laser scan lines: 100um(4pixels) in x, y direction

Cluster size 1~2 pix (avg. 1.2pix)

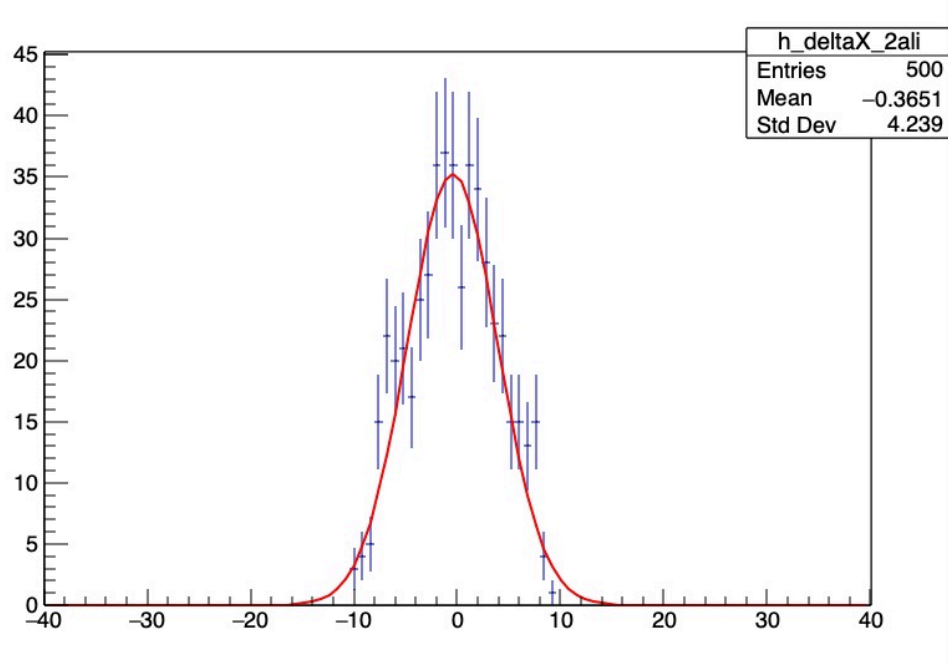
- laser threshold 75%



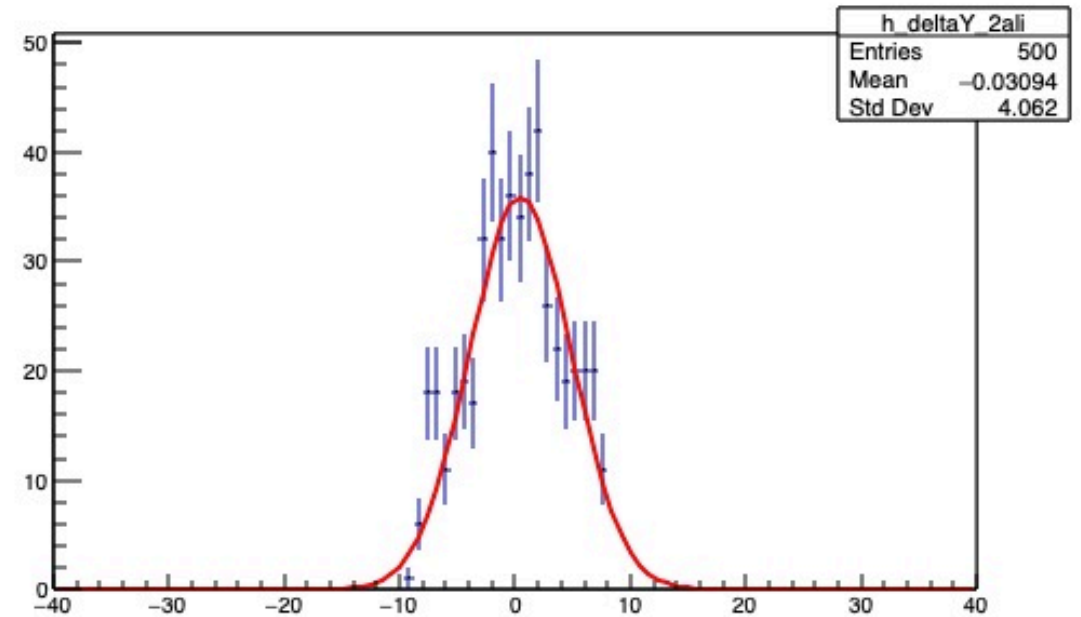
Spot size 2~4um



Quick look at the resolution



$\sigma_{\text{residual}_x} = 4.49 \text{ } \mu\text{m}$

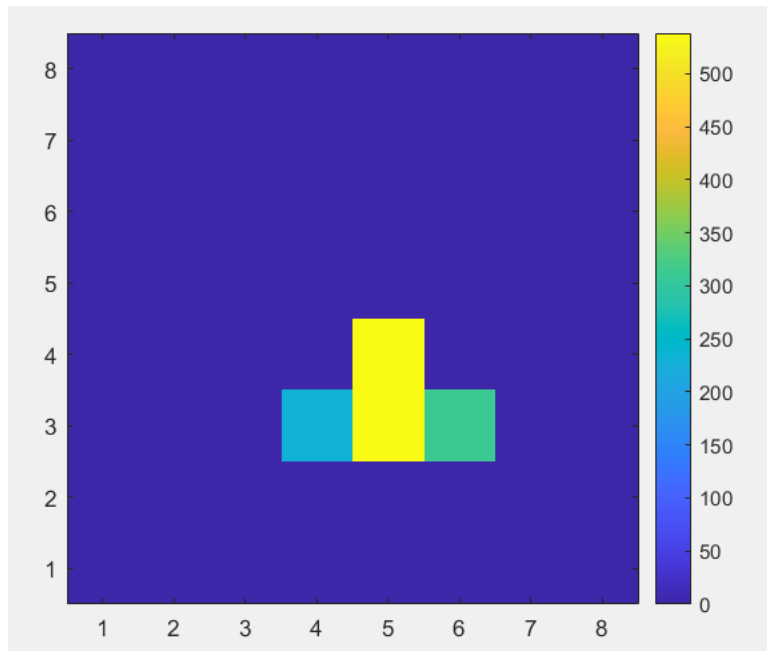


$\sigma_{\text{residual}_y} = 4.41 \text{ } \mu\text{m}$

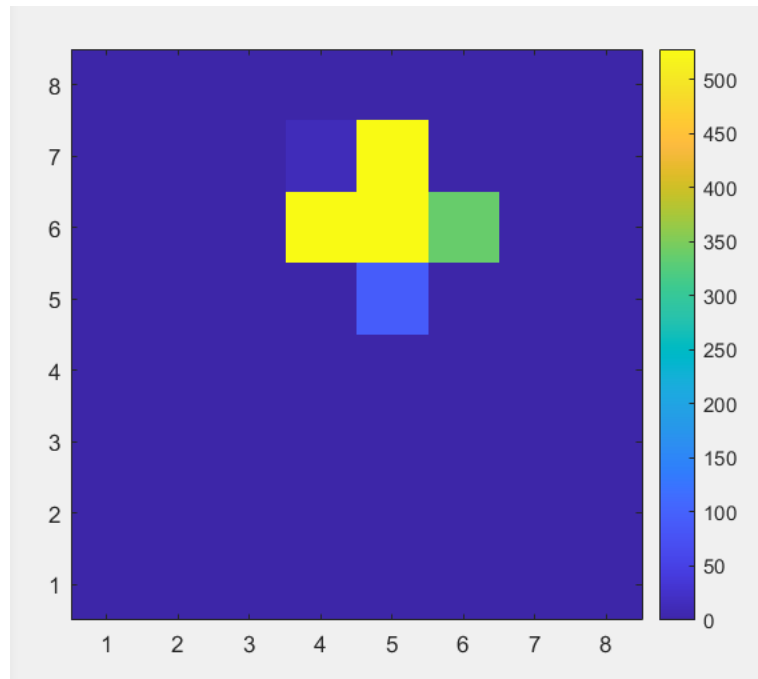
Result not very stable with different binning (fitting pars errors $\sim 0.2 \mu\text{m}$), more statistics would help

Other laser intensity

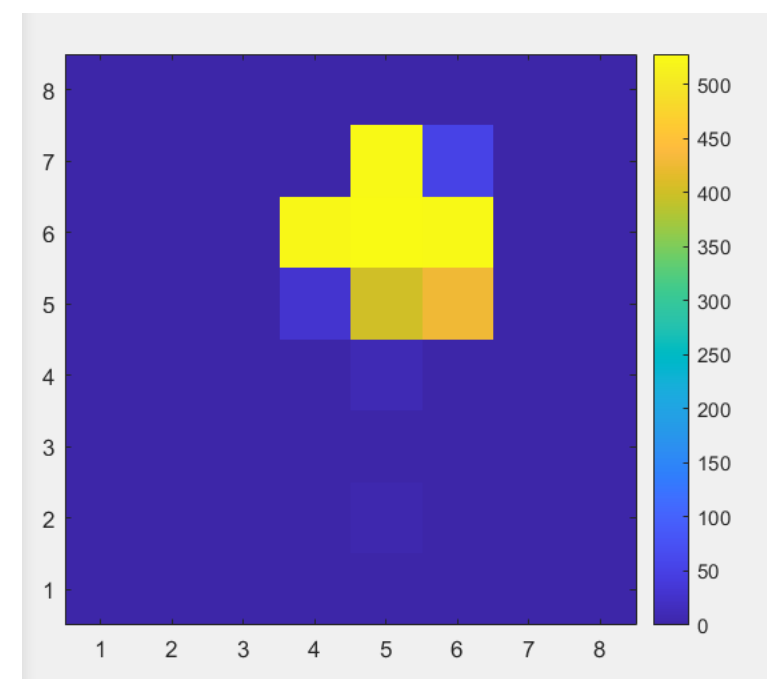
- 71% (avg. 1.63pix)



70.5% (avg. 2.05pix)



70% (avg. 3.66pix)



More data will coming soon