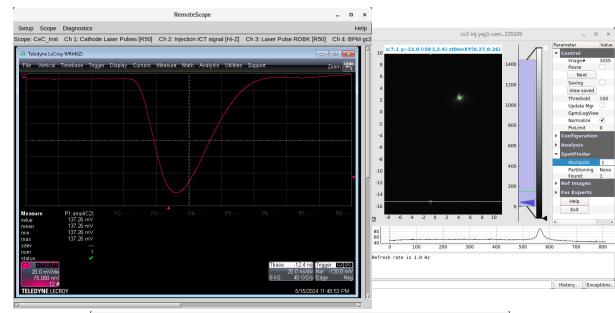
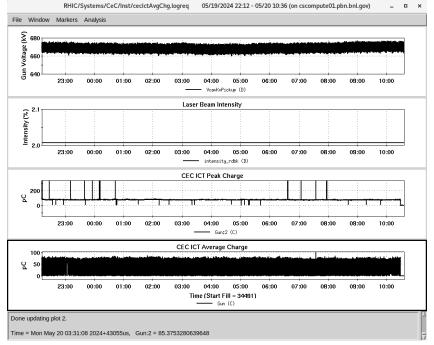
## **CeC status - 5.21.24**

- GaAs cathode generates photo-electrons in the SRF gun ~ 100 pC per bunch
- Little vacuum activities were observed
- Cathode operates with stable QE (0.04% 0.08%) for days
- Characterize the cathode's performance for various voltages (200 – 700 kV) – QE, emittances (0.8 – 1 um)





Beam propagation for polarization meas.

 Low energy (~600 kV kinetic) beam (~ 250 pC) reached downstream yag screens

 Will measure polarization when laser is ready (TBD).

Switch to 2<sup>nd</sup> GaAs cathode on May 22

