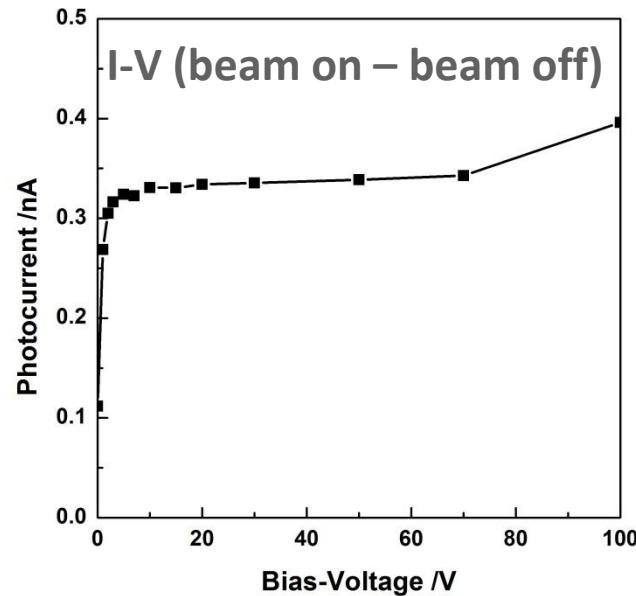
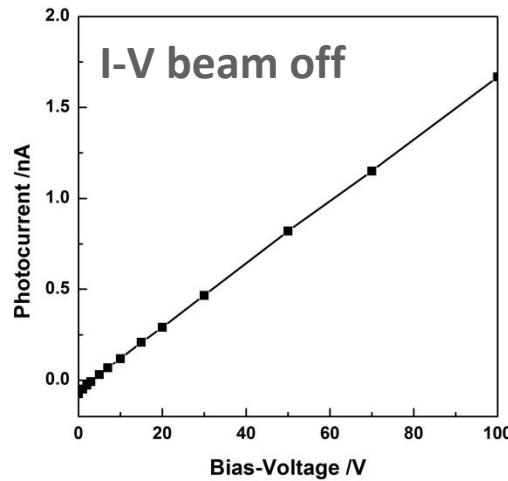
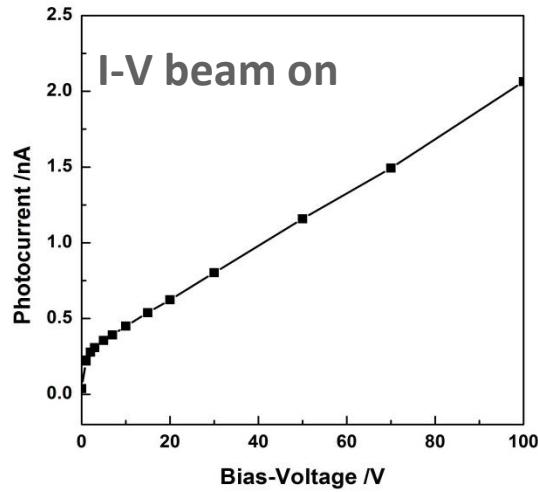


# Tube #44 QE

# I-V curve

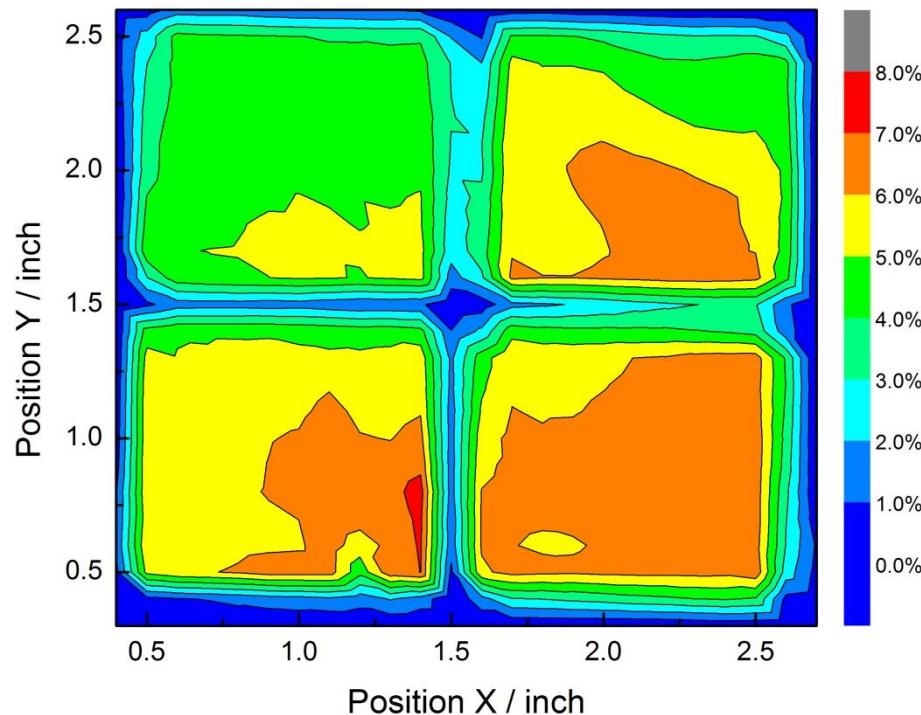
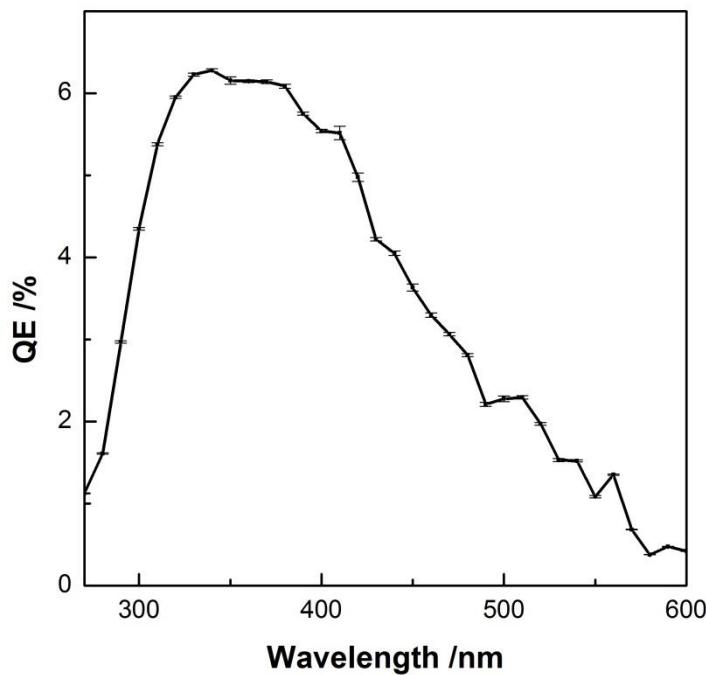


The spacer glass is not absolute  
 $+\infty$  resistance,  
Showing a resistance of  $5 \times 10^{10} \Omega$

Higher resistance glass??

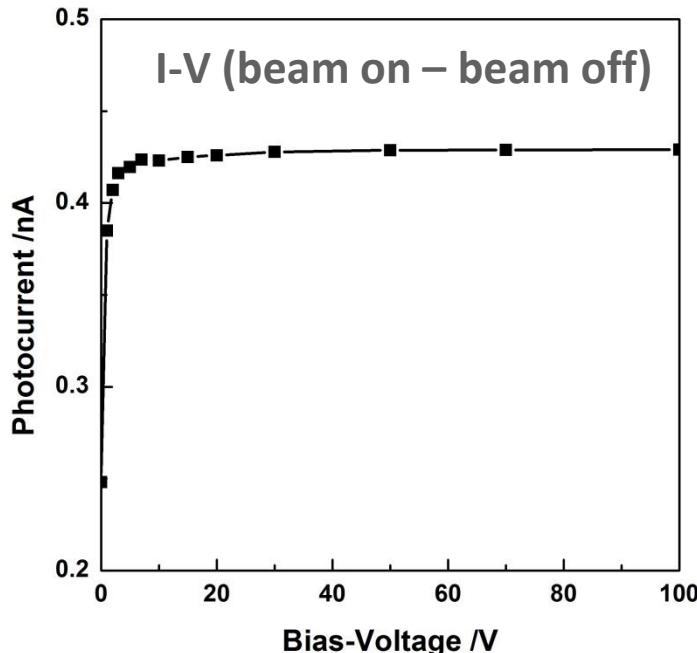
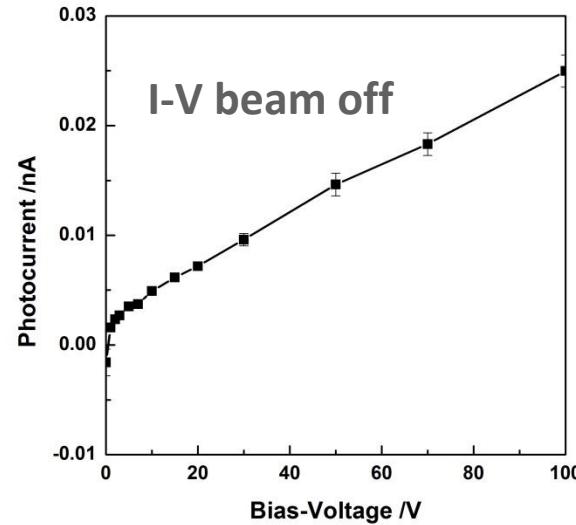
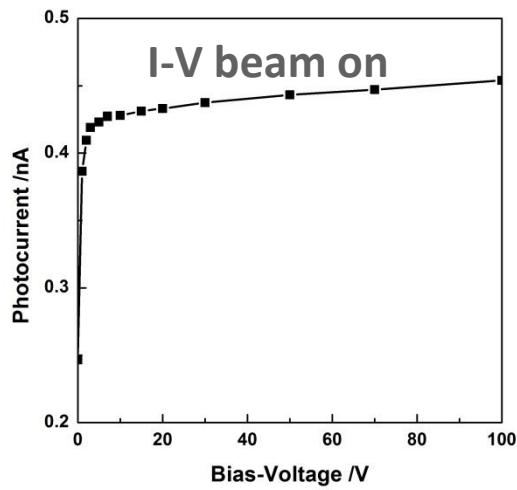


# QE vs. wavelength and Map



- Maximum QE ~7 %. Average 5-6 %.
- The Cs deposition does not go well this time. During Cs evaporation, the pressure inside chamber goes up to middle  $10^{-7}$  torr, the photocurrent decreases as the Cs deposition proceeds, instead of increases. Cs deposition was terminated and the photocurrent already dropped to 1/3 of the value after K deposition.
- During photocathode growth, the base pressure is twice higher than previous growth condition, may due to the low leakage at load lock.
- Will need to check the Cs source, outgas the source at over 700 °C.

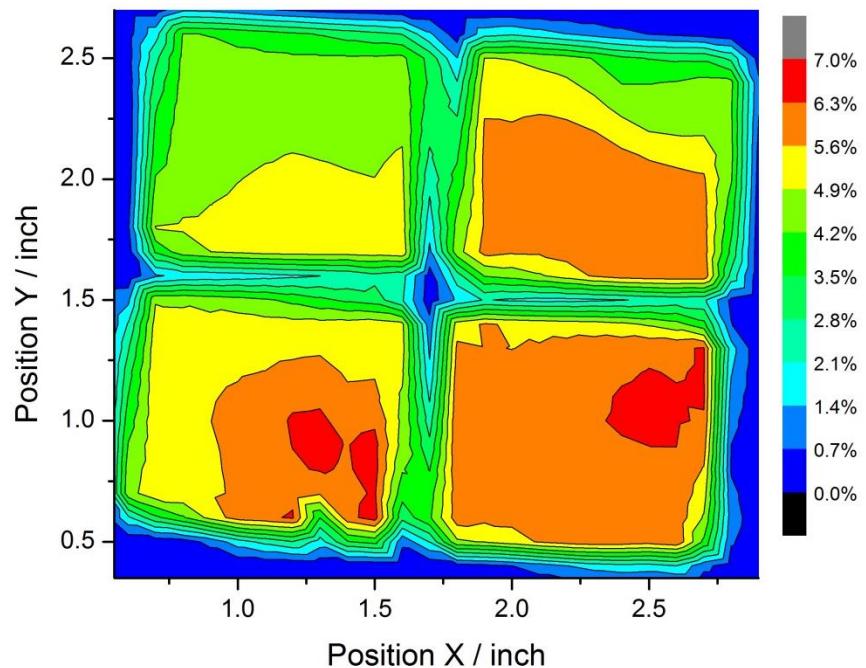
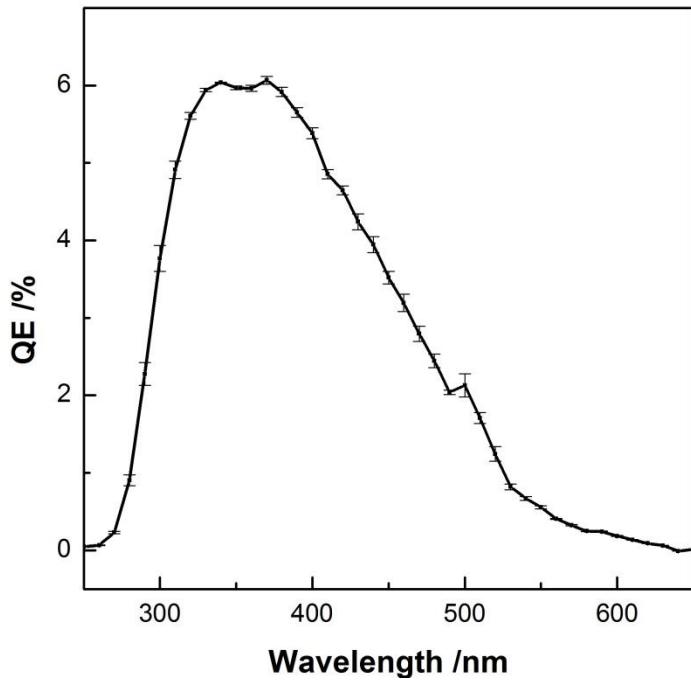
# I-V curve - 2 weeks



The spacer resistance increases from  $5 \times 10^{10} \Omega$  to  $5 \times 10^{12} \Omega$  after 2 weeks



# QE vs. wavelength and Map



- QE almost has no change after 2 weeks.

