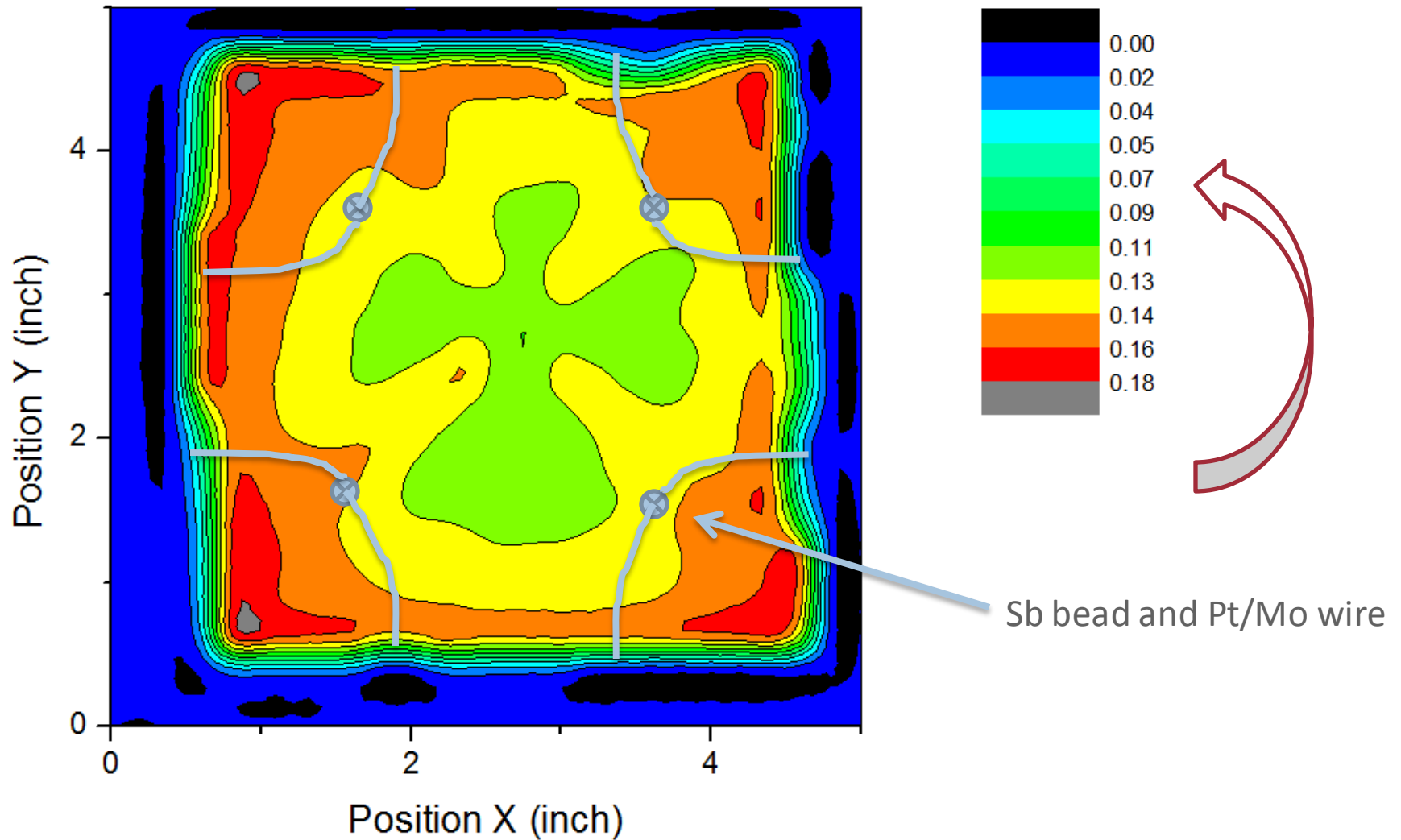


Cathode Recesiatiion Test

Chalice cathode deposition #6 Map

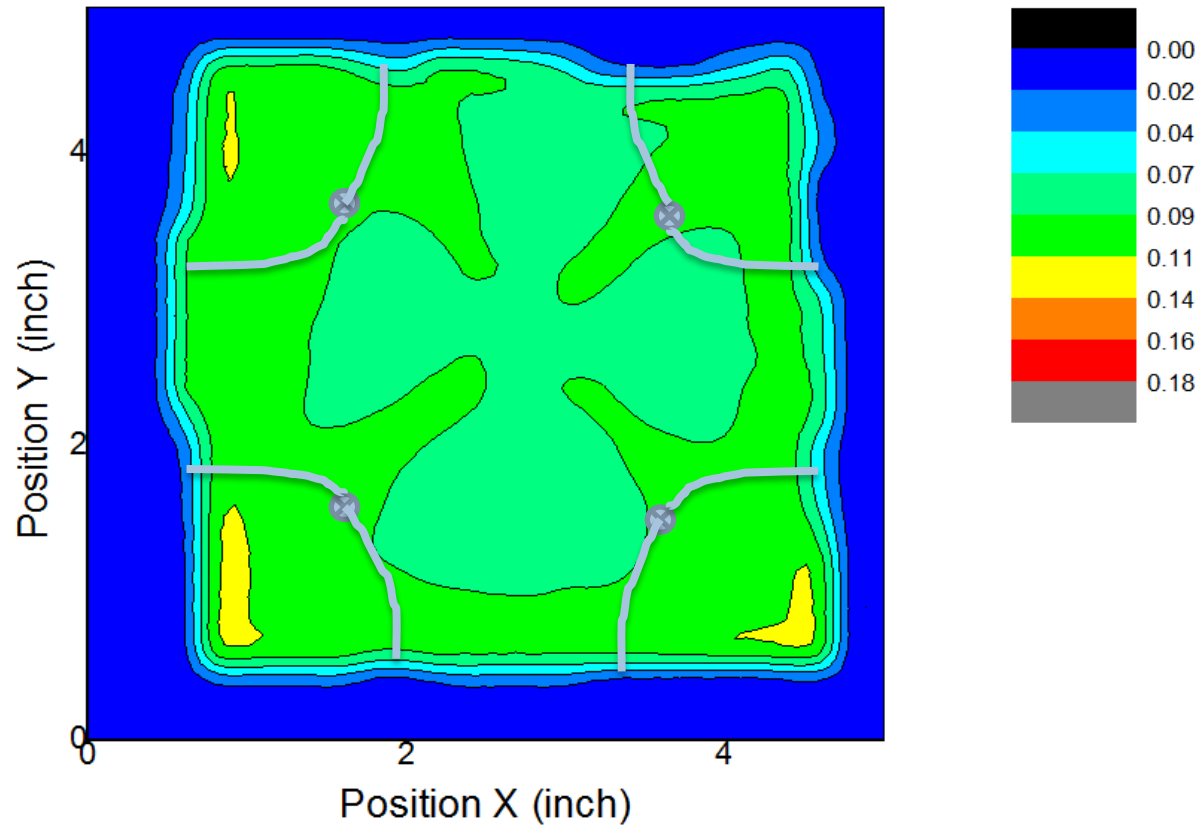
The QE mapping is obtained at 350 nm wavelength, scan step size: 0.2 inch



QE between 8% at center and 18% at corners.



QE Map 1 day after re-cesiation



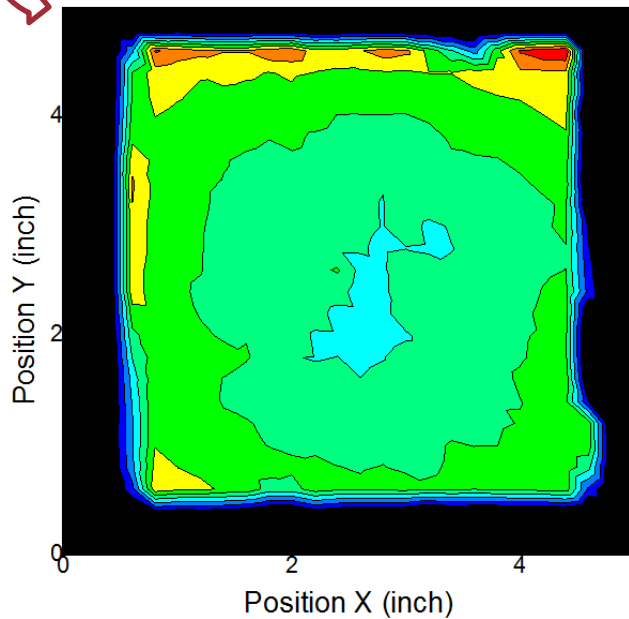
- The recesiation is done without sealing the chalice, so chalice is still under pumping.
- QE map is measured 1 day after recesiation, QE is between 7% and 12%.
- Since the QE (after recesiation) is measured 1 day after the recesiation process, not sure if the QE drop is really due to recesiation process or due to cathode self-decay.
- For next cathode, the QE will be measured right before and after recesiation to verify the result.

QE Change Map

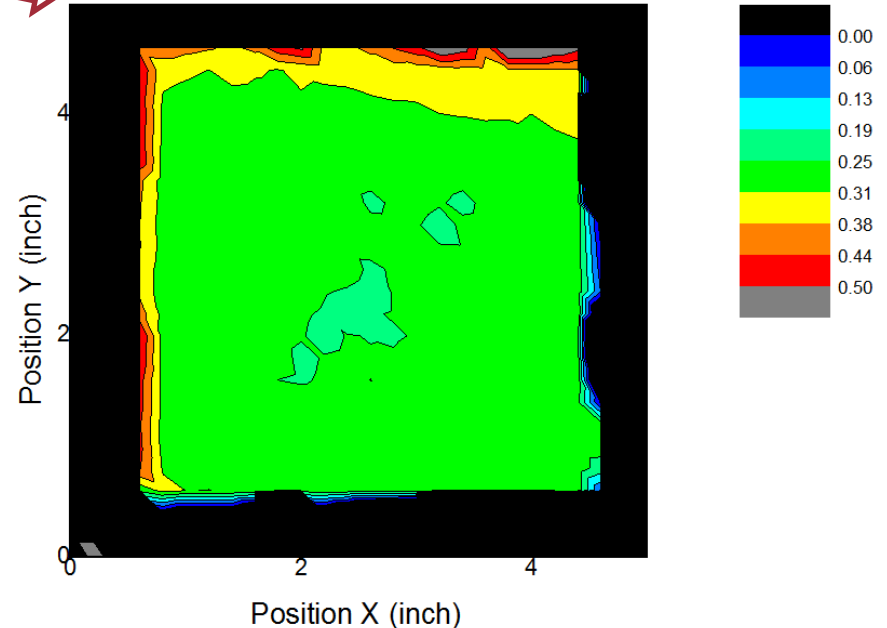
Define:

$$QE\ Drop = QE\ (before\ recesiation) - QE\ (after\ recesiation)$$

$$QE\ Drop\ Percentage = \frac{QE\ (before\ recesiation) - QE\ (after\ recesiation)}{QE\ (before\ recesiation)} \times 100\%$$



QE Drop Map



QE Drop Percentage Map



Summary

- The recesiation is done without sealing the chalice, so chalice is still under vacuum pumping.
- QE map is measured 1 day after recesiation, QE is between 7% and 12%.
- Since the QE (after recesiation) is measured 1 day after the recesiation process, not sure if the QE drop is really due to recesiation process or due to cathode self-decay.
- For next cathode, the QE will be measured right before and after recesiation to verify the result. Ensure if it is due to recesiation process or due to cathode self-decay..

