## TE1AES004 JLAB T-map test

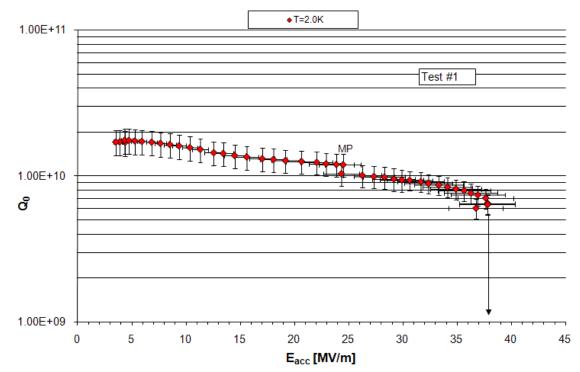
G. Ciovati, M. Morrone, G. Wu

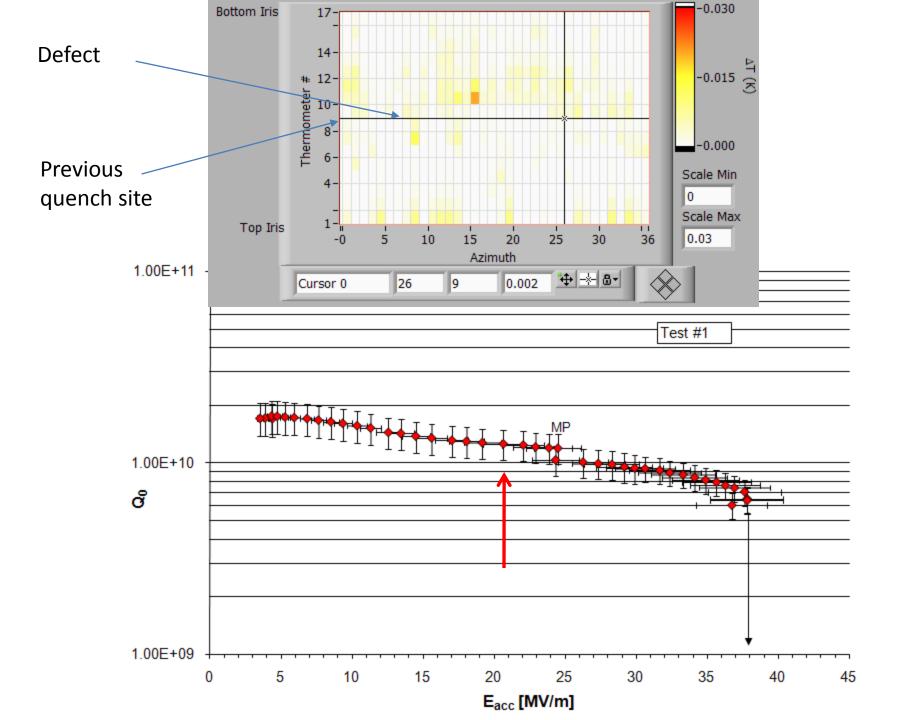


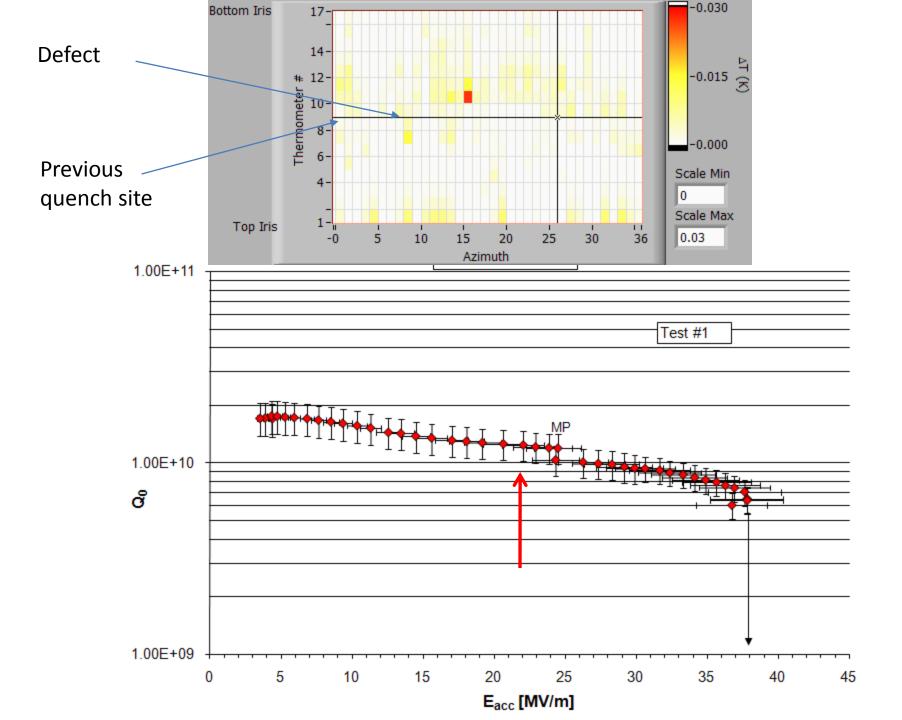
- •Cavity sealed on 6/7,
- •T-map installed on 6/8,
- •RF tested on 6/9,
- Disassembled on 6/10,
- •Shipped back on 6/11.

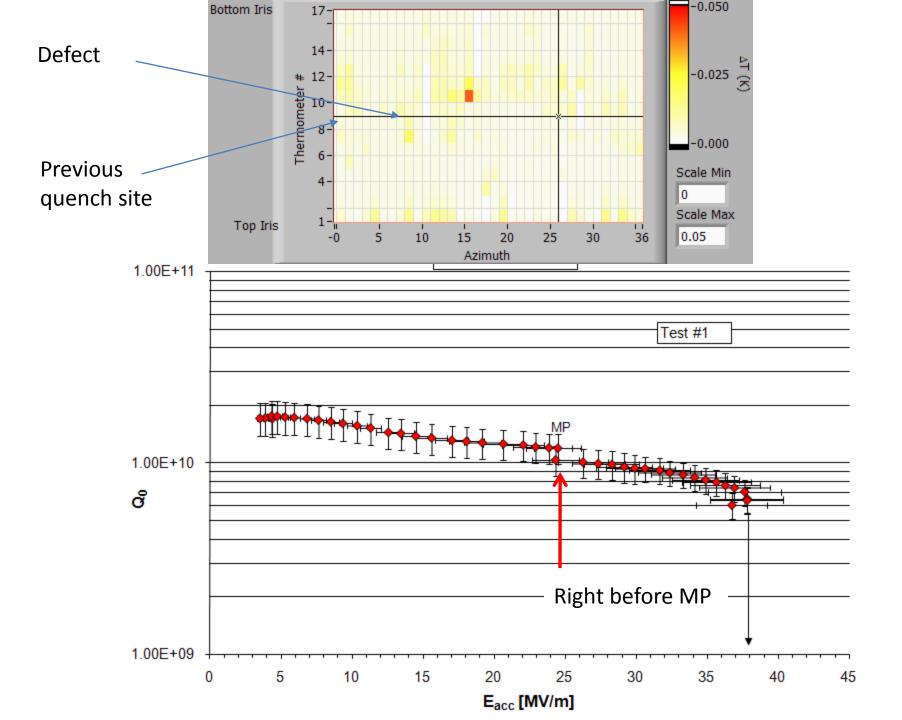
- Cavity see no chemical etching since 2008,
- •Only see HPR and molding.
- •Cavity last tested at A0 (40 MV/m)
- •No active pumping since A0 RF test.
- •No x-ray was detected at JLAB (38 MV/m)
- •Three hot spots and one quench site located
- •Geometric defect showed no heating at all
- •Previous quench site (A0) was a hot spot
- Quench had pre-heating

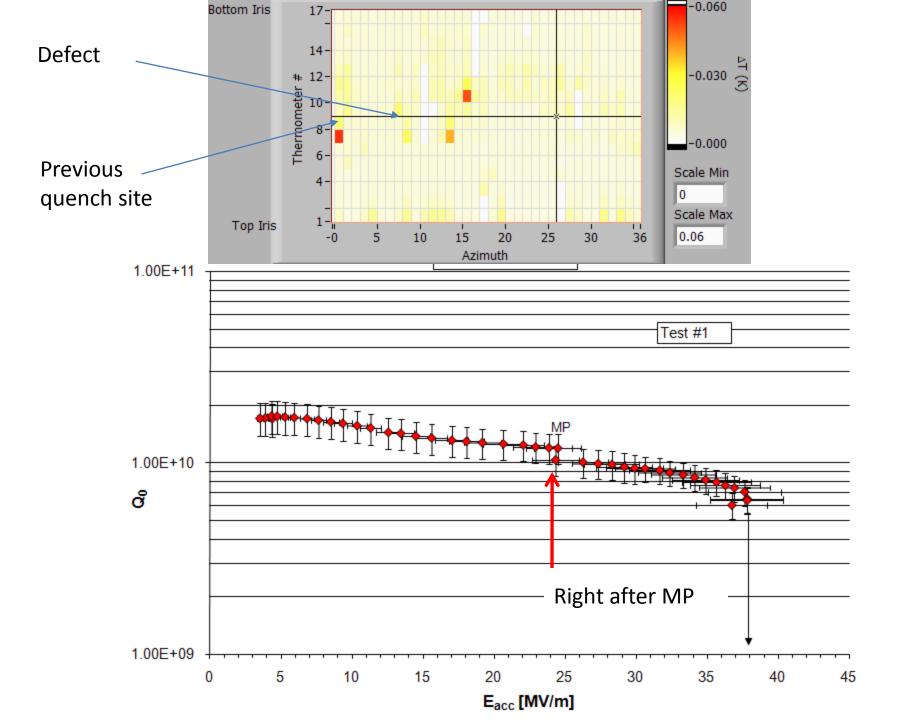
AES004, TESLA Cavity Shape, single cell

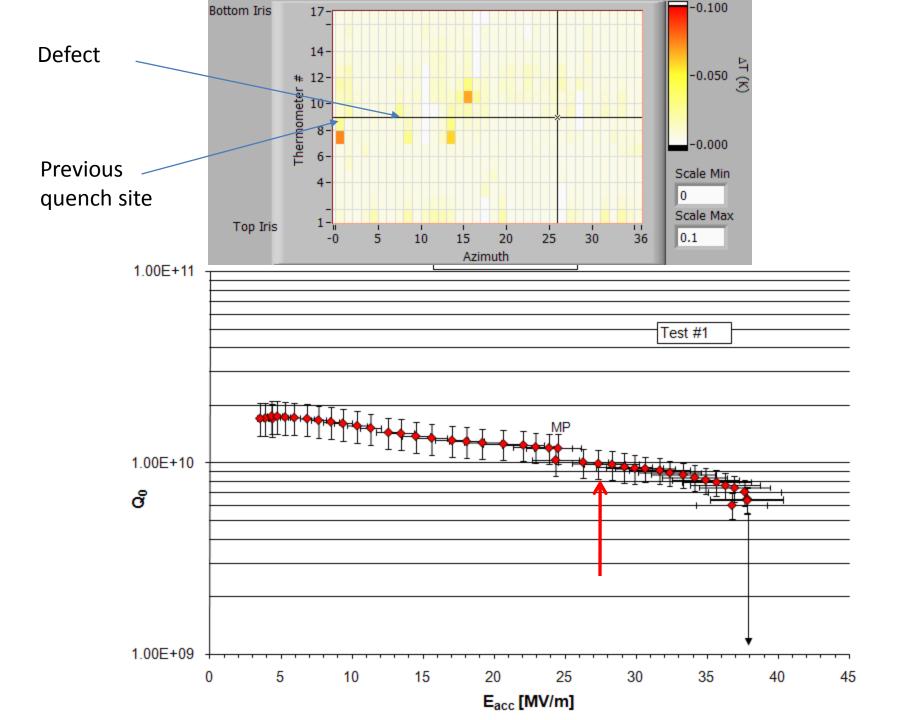


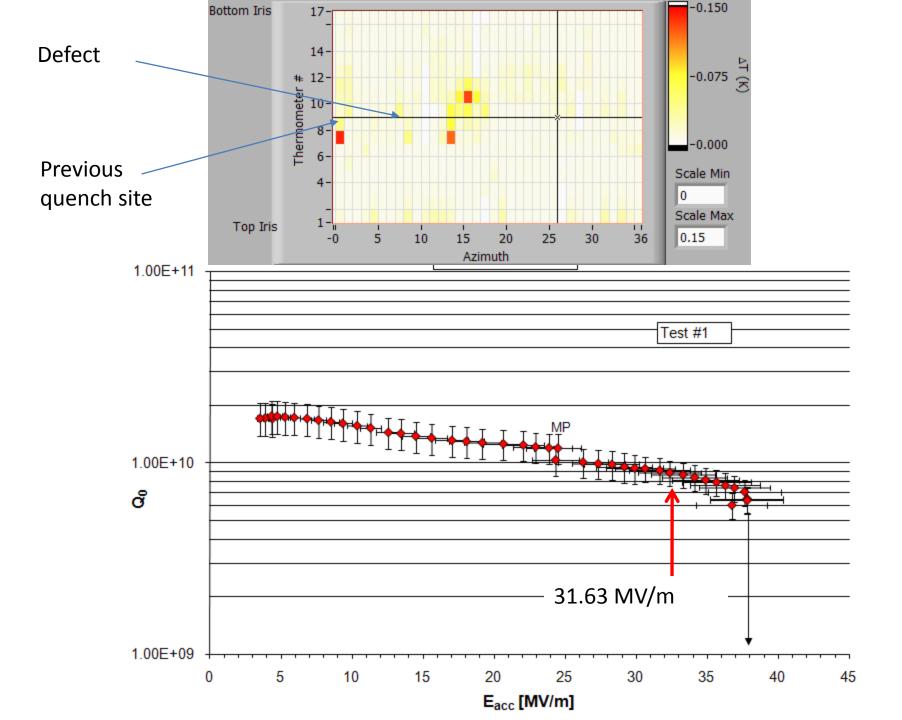


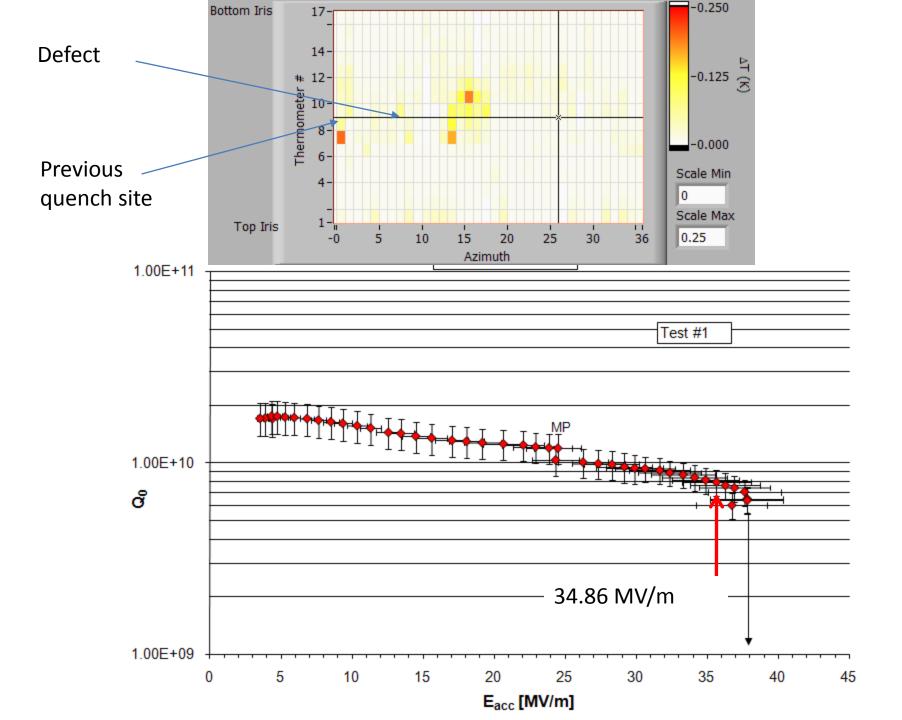


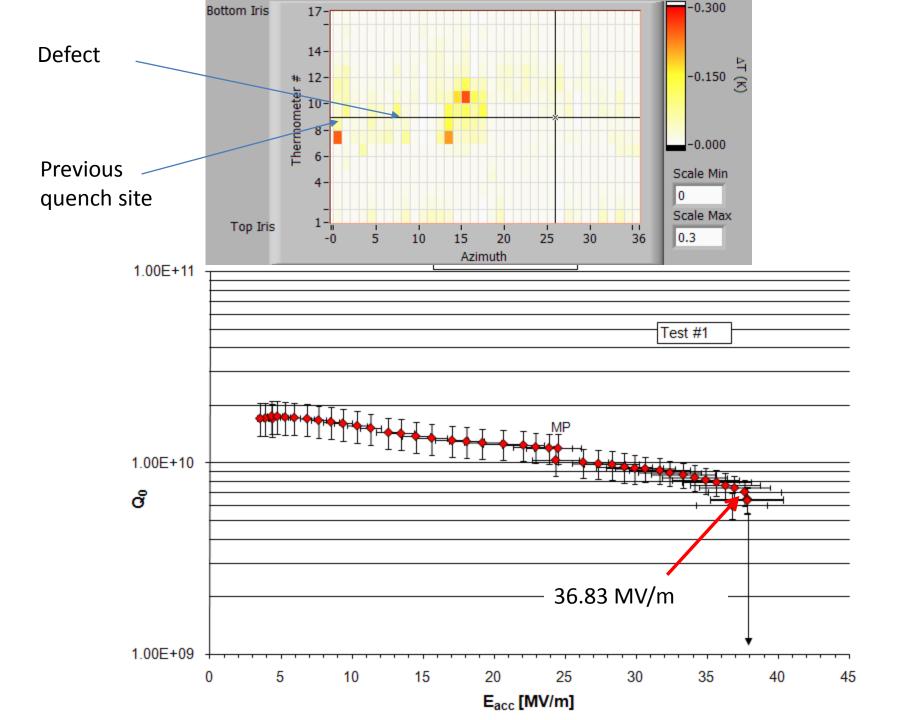


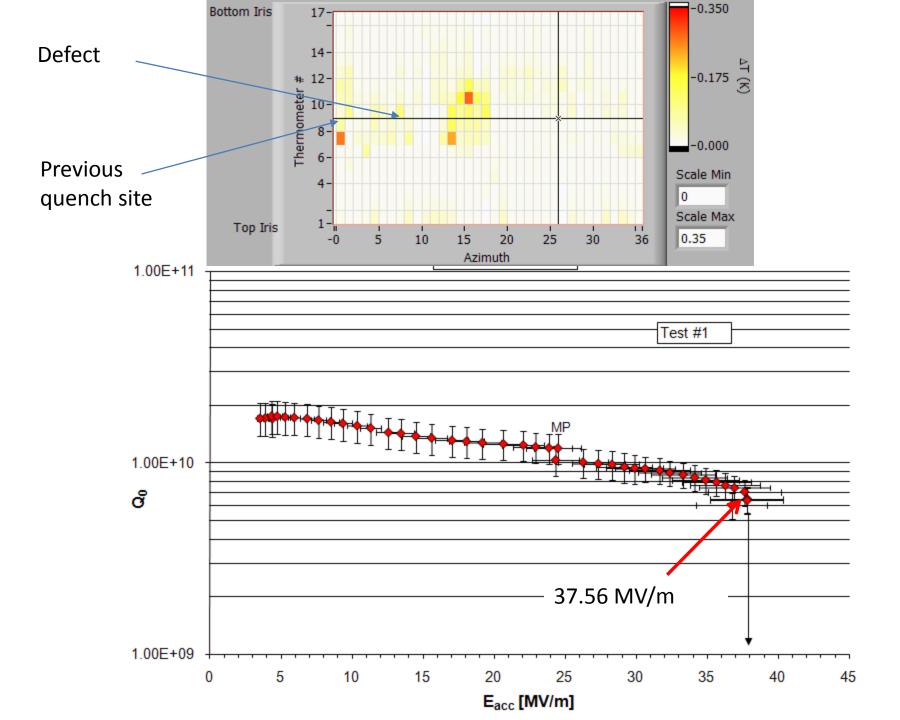


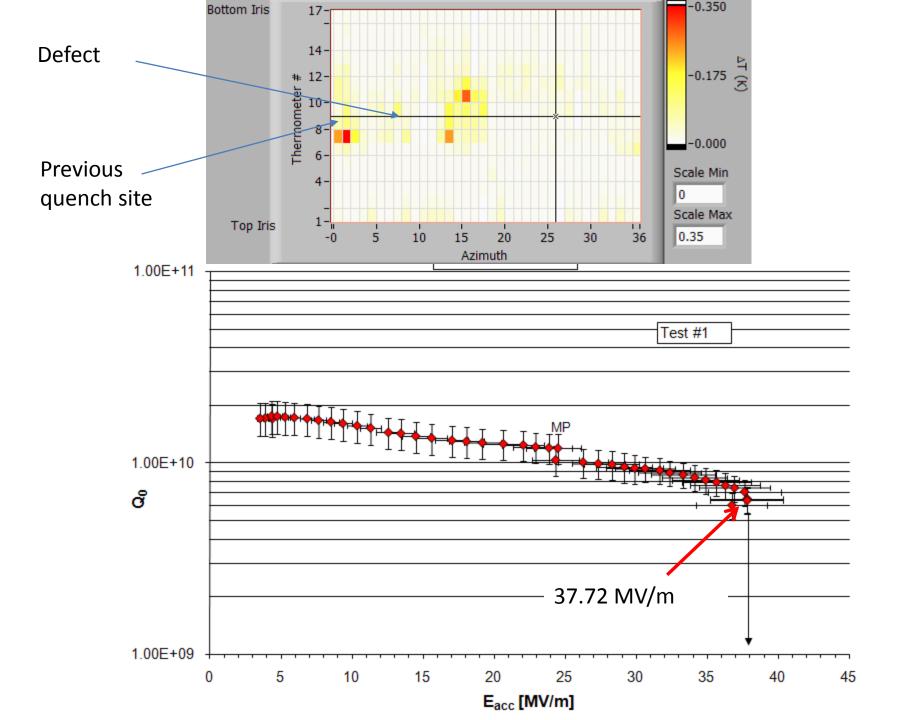


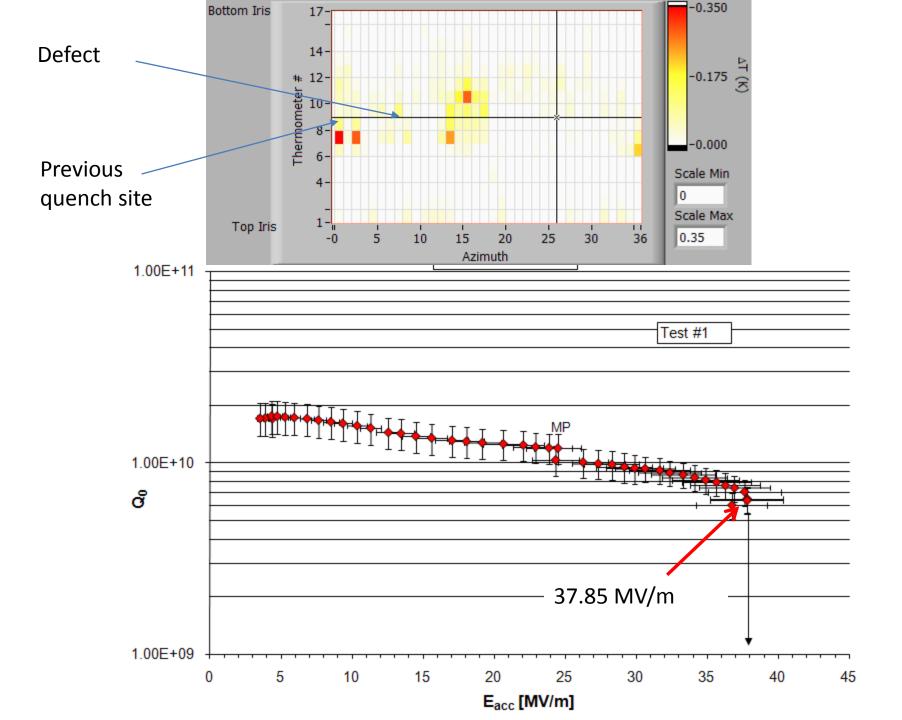


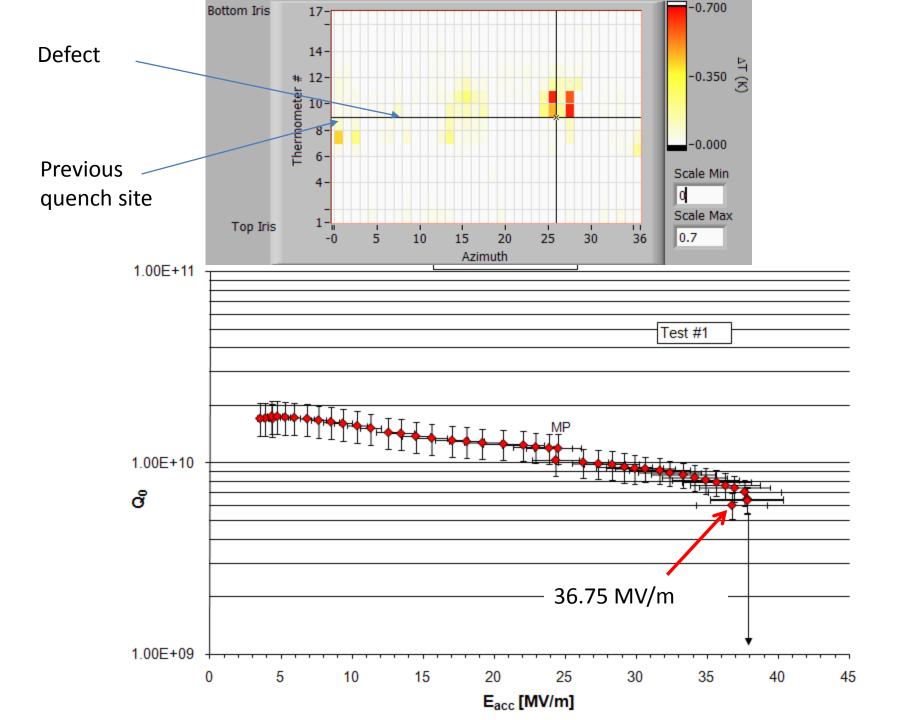


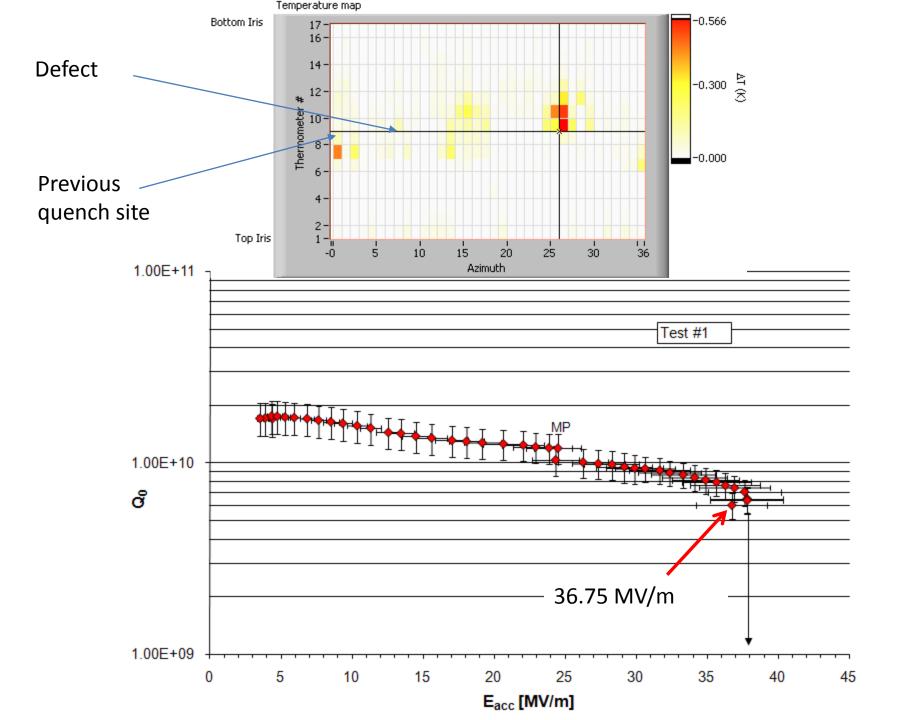


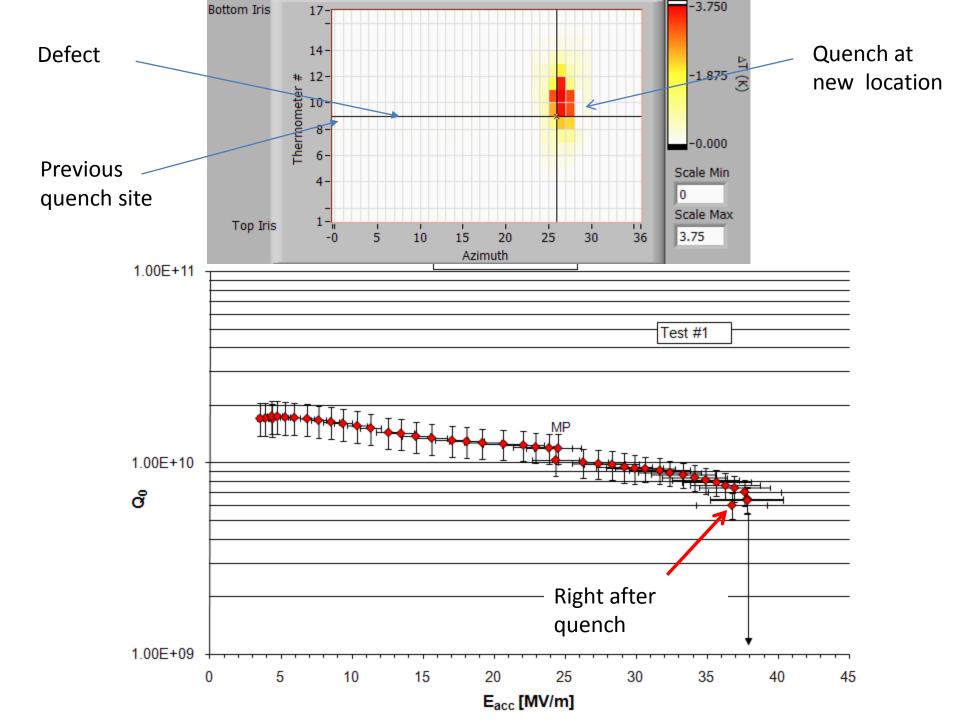


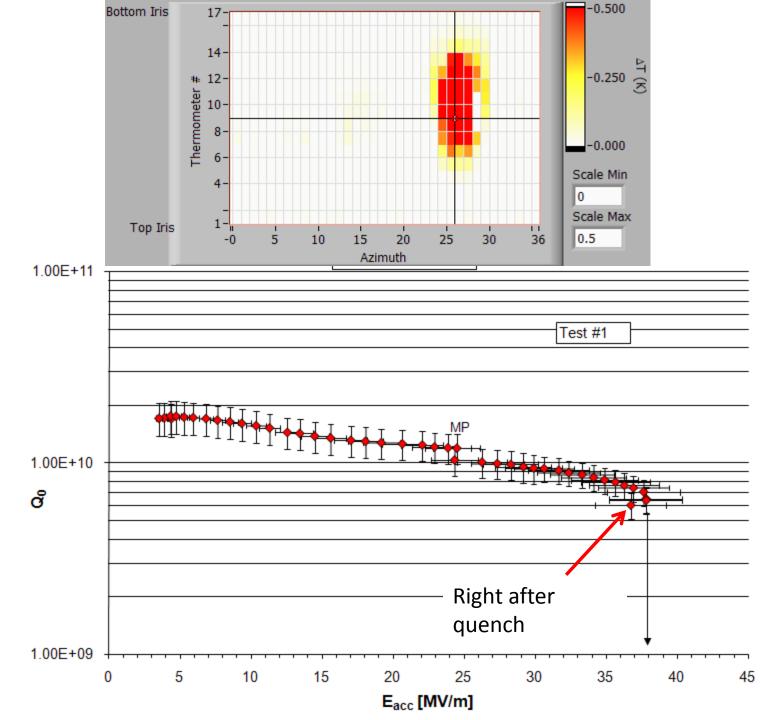












## Summary

- •No x-ray was detected at JLAB (38 MV/m)
- •Three hot spots and one quench site located
- Geometric defect showed no heating at all
- •Previous quench site (A0) was a hot spot
- Quench had pre-heating

Why is the quench site changed test after test?

- Cut out may tell us why.