## MHI#8 cavity result

- ◆Brief history
- ◆ New surface treatment
- ◆ Vertical test result including T-mapping



# Brief history of MHI#8

◆9/Jul/2009 1st V.T.

 $E_{acc, max} = 16.0 MV/m$ 

♦Jul/2009 inspection

found deep defect at heating location

◆Sep/2009

local grind

removal of defect at cell #2

◆29/Oct/2009 2<sup>nd</sup> V.T.

 $E_{acc, max} = 26.8 MV/m$ 

◆26/Nov/2009 3<sup>rd</sup> V.T.

 $E_{acc. max} = 17.5 MV/m$ 

◆18/Feb/2010 4<sup>th</sup> V.T.

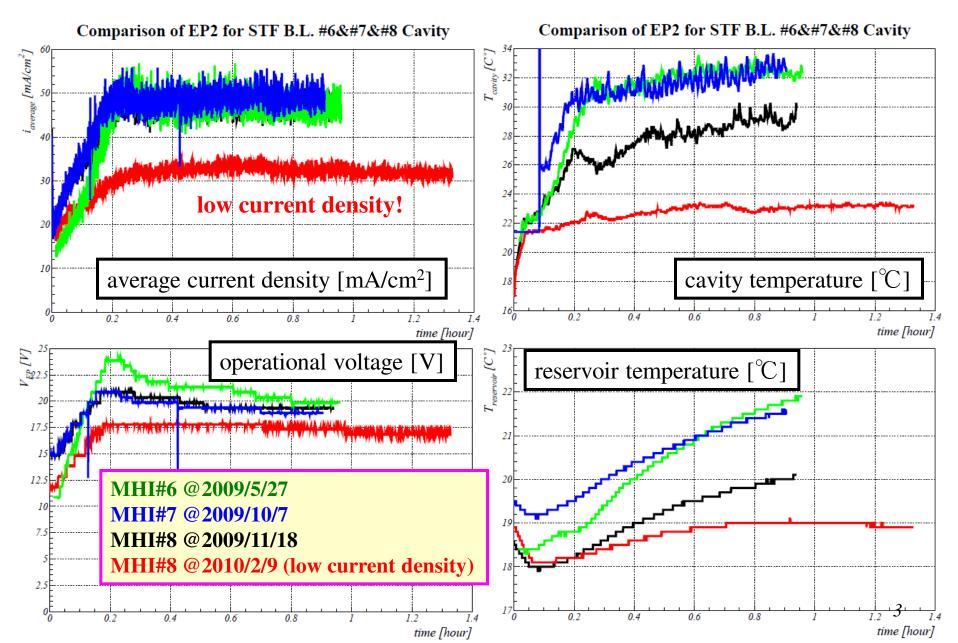
 $E_{acc, max} = 37.8 MV/m$ 



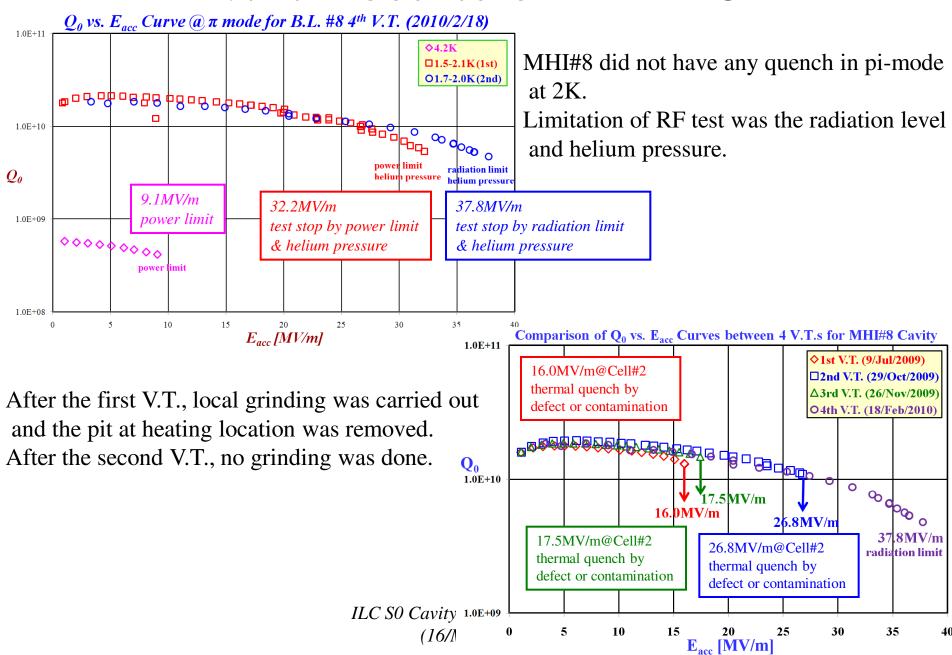
In the inspection after 2<sup>nd</sup> and 3<sup>rd</sup> V.T., any defect was not found at heating location. Therefore, the local grinding was not carried out.

Meeting by WebEx [ar/2010]

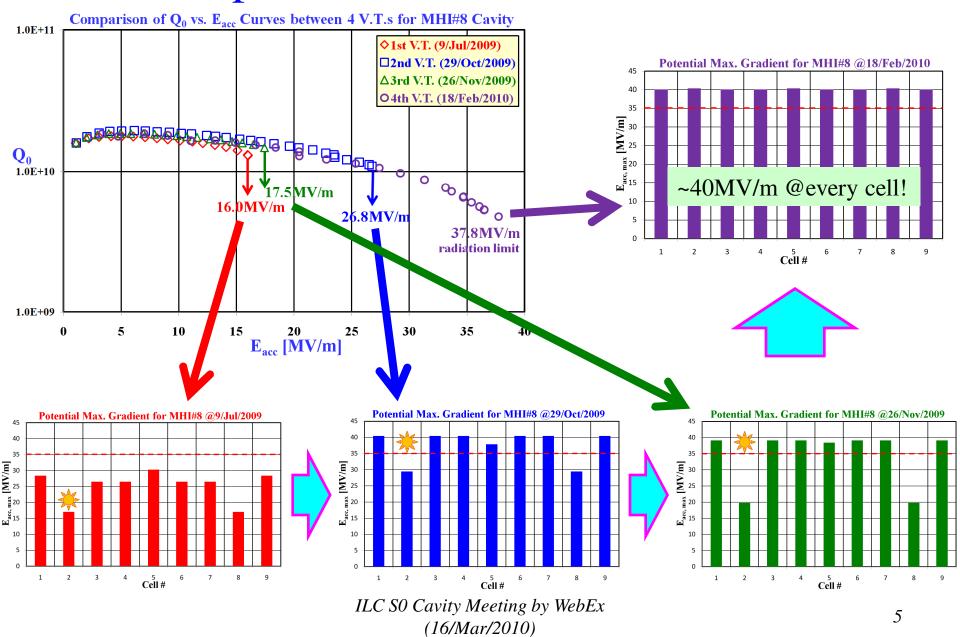
## New surface treatment at STF



#### V.T. Results of MHI#8



#### Result of pass-band measurement for MHI#8



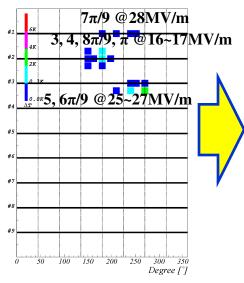
## Transition of heating location for MHI#8

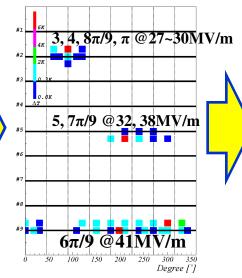


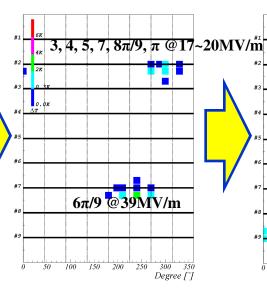
2<sup>nd</sup> V.T. @ 29/Oct/2009

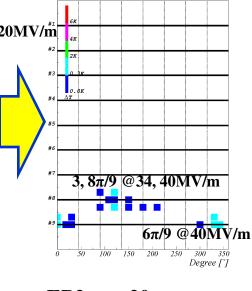
3<sup>rd</sup> V.T. @26/Nov/2009

4th V.T. @18/Feb/2010









pre-EP : 5µm

EP1 : 100µm

EP2 : 20µm

Ethanol+HWR+HPR

EP2 : 20µm

**Degreasing(FM-20)** 

+HWR+HPR

EP2 : 20µm

**Degreasing(FM-20)** 

+HWR+HPR

EP2 : 20μm

(low current density)

**Degreasing(FM-20)** 

+HWR+HPR