

- 300 cavities have been ordered at RI and Zanon each
 - **Divided into 280 series cavities, 8 prototypes and 12 HiGrade-cavities**
 - **HiGrade cavities will be delivered without He-vessel**
- No performance guarantee will be given by the companies, cavities are built to specification
- Option for 40 or 80 additional cavities part of both contracts, based on production success



Cavity order for XFEL (2)

RI

- Final surface treatment is EP
- He-vessels and semi-finished products (Nb and Nb-Ti) are not part of the contract and will be supplied by DESY, only He-vessel welding is part of the contract

Zanon

- Final surface treatment is BCP-flash (=10 um BCP after 140 um main EP)
- He-vessels are part of the contract, semi-finished products will also be supplied by DESY

- Cavity treatment history:
 - **Bulk-EP at Henkel: 128 um**
 - **800C HT**
 - **Flash-BCP at DESY: 10 um**
 - **6xHPR**
 - **120C bake for 48 h**

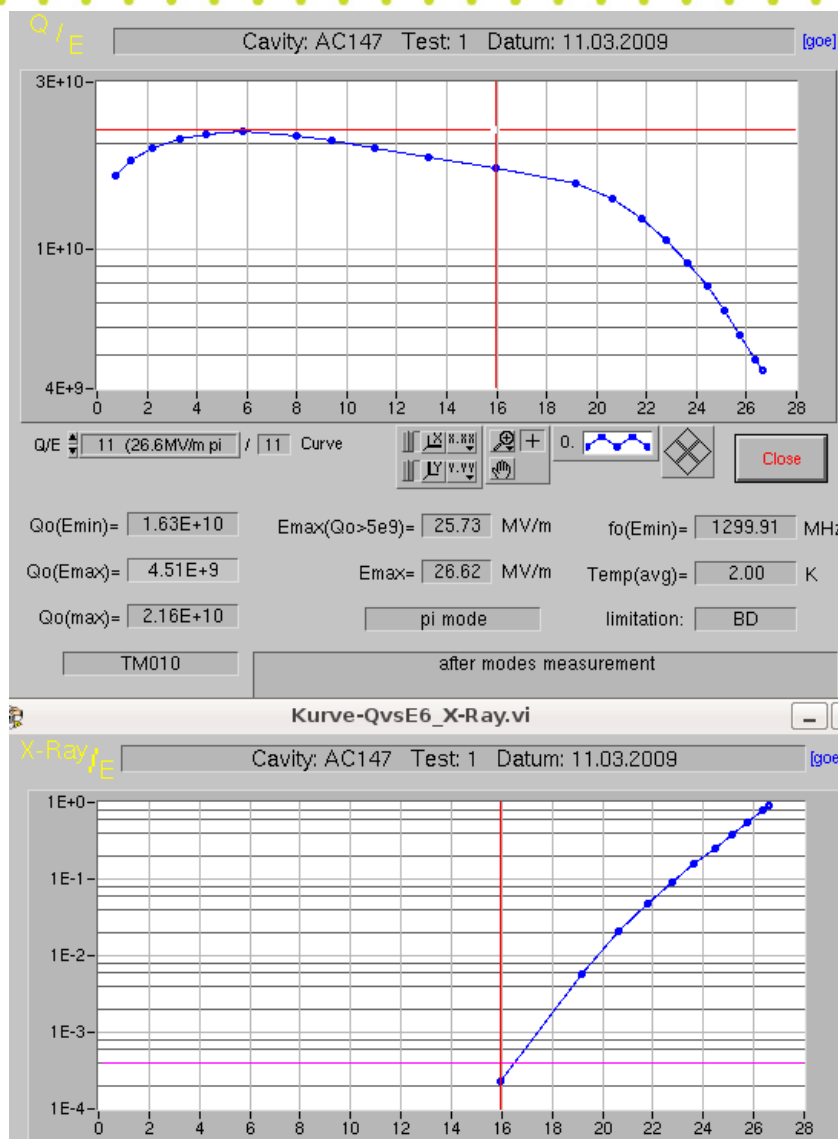
- 1st test (11.3.2009)
 - **Limited at 26.6 MV/m with strong FE**

- 48 um EP at DESY

- 2nd test (4.8.2010)
 - **Limited at 38.7 MV/m, almost no FE**

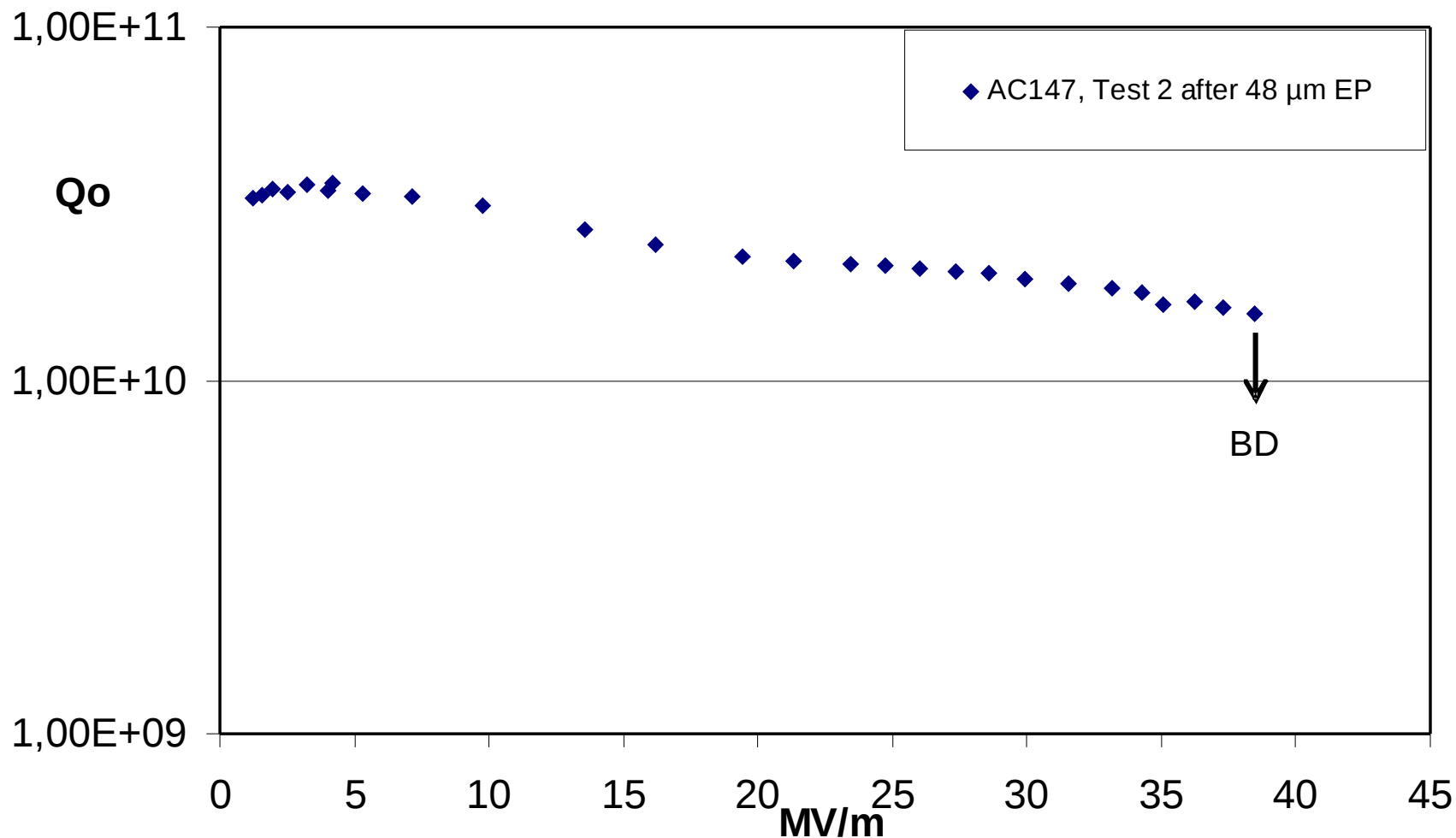


1st test (11.03.2009), pi-mode





2nd test (4.8.2010), pi-mode



Comparison 1st and 2nd test

