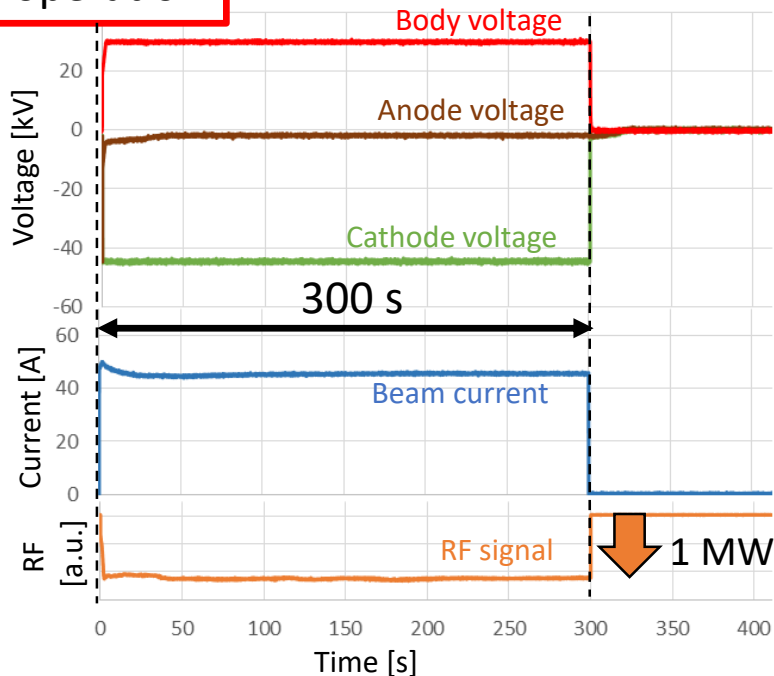


Completion of 1st ITER Gyrotron Manufacturing and 1 MW Test Result

► Manufacturing of 1st&2nd gyrotron was completed and their factory test started in 2017.

CW operation

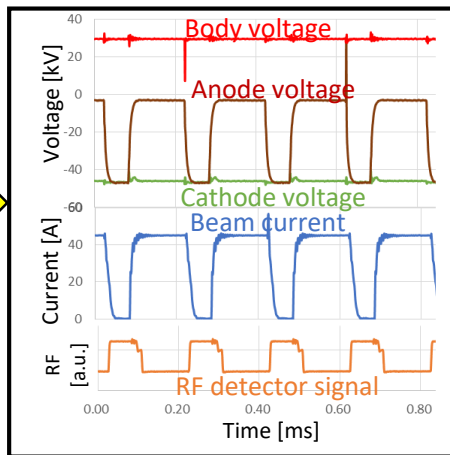
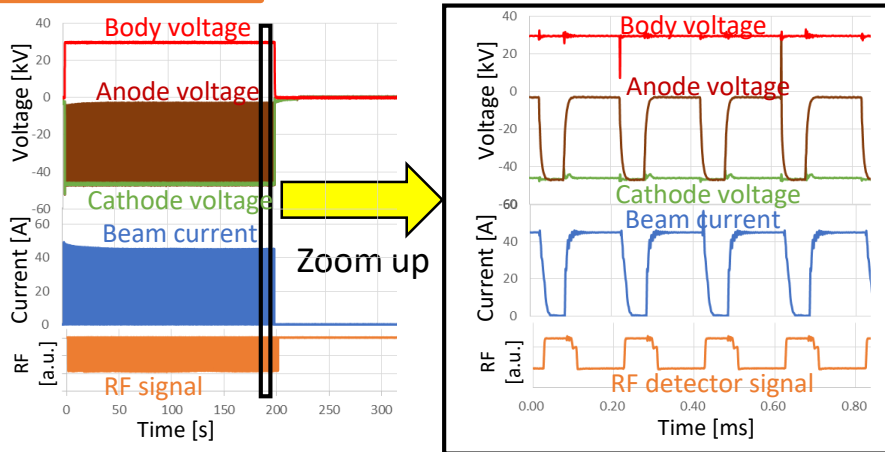


► Demonstration of 170 GHz / 300 s pulse with **1MW output power** at **50% electric efficiency** succeeded achieving criteria for factory acceptance test.

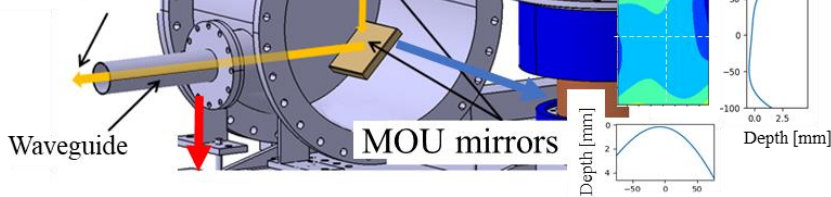
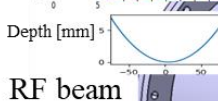
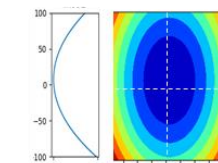
All the criteria for ITER gytoron in FAT were successfully achieved.

Modulation

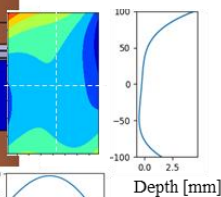
► **5 kHz modulation** succeeded.



M1 surface depth profile



Beam coupling



M2 surface depth profile

► New MOU mirror achieved **96.9% LP₀₁ mode purity** at transmission line.