Abstract
We are developing SRF instrumentations such as for Hc1 evaluation using Third order Harmonic Distortion measurement. Recently, quad coil system, which enables measurement of four samples in a single batch of experiment, is developed. It will make THD measurements efficiently. Another item of SRF instrumentation is a coupon cavity setup and XT-map system for 3GHz cavities. The latter is derived from that of 1.3GHz cavity. These two works are described.

Quad THD system
Setup for Third order Harmonic Distortion measurement system under preparation:
• Four samples can be measured at one LHe charge.
• Programmable heater and measurement sequence.
• Can speed up the measurement cycle.

Coupon Cavities and XT-map for 3 GHz Single-cell

Summary
• The quad THD system is being assembled.
• 3GHz cavity series is under preparation.
• Tests are planned soon.