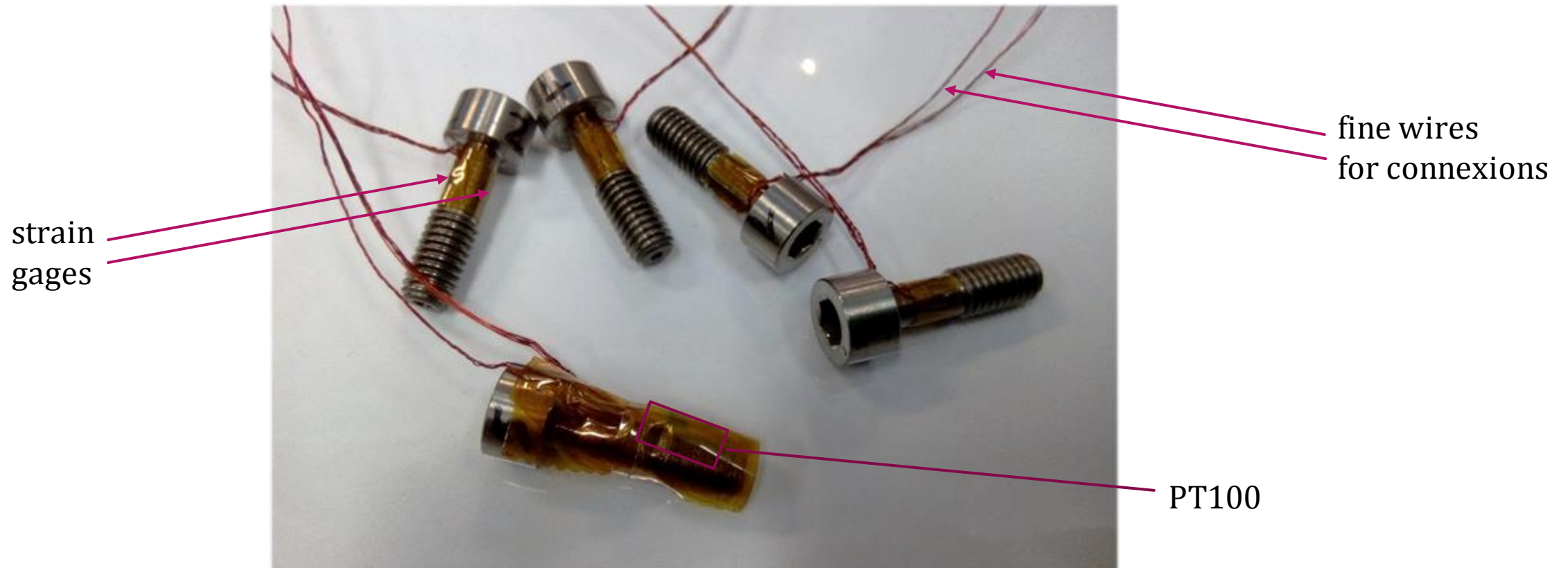




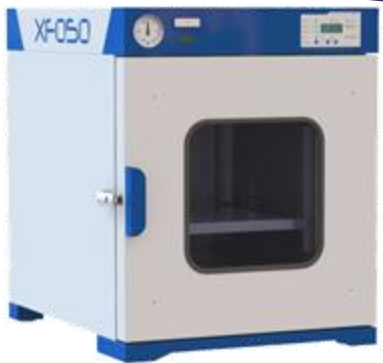
LHC CRAB CAVITY
DQW
Mechanical
Instrumentation status

MECHANICAL MEASUREMENT LABORATORY
GALLAY EUGENIE

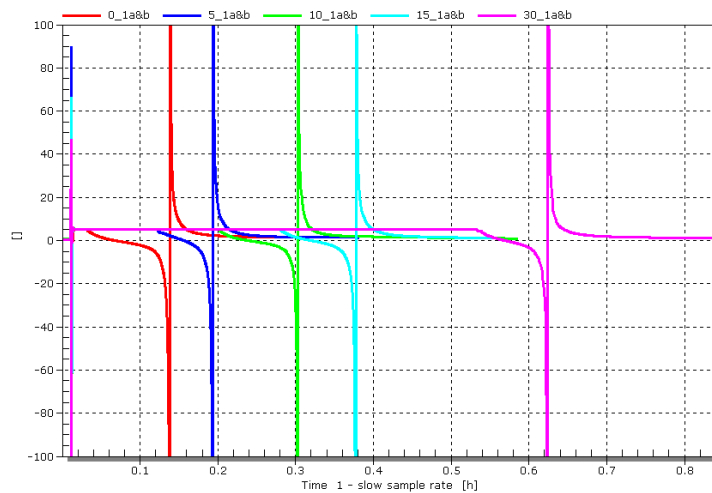
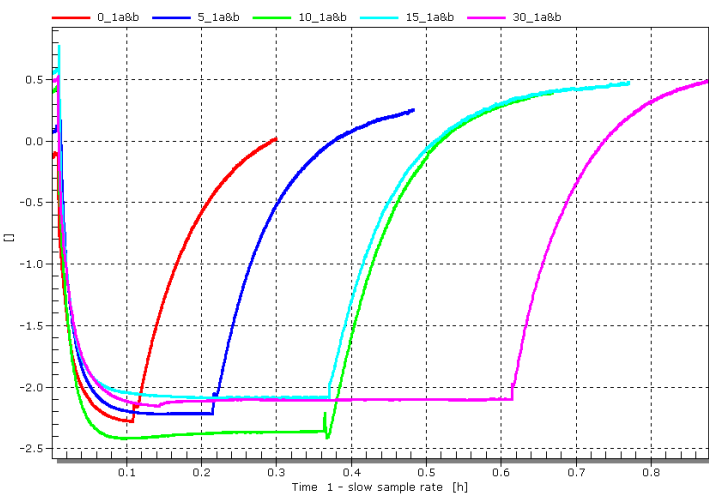
Validation tests – Temperature impact



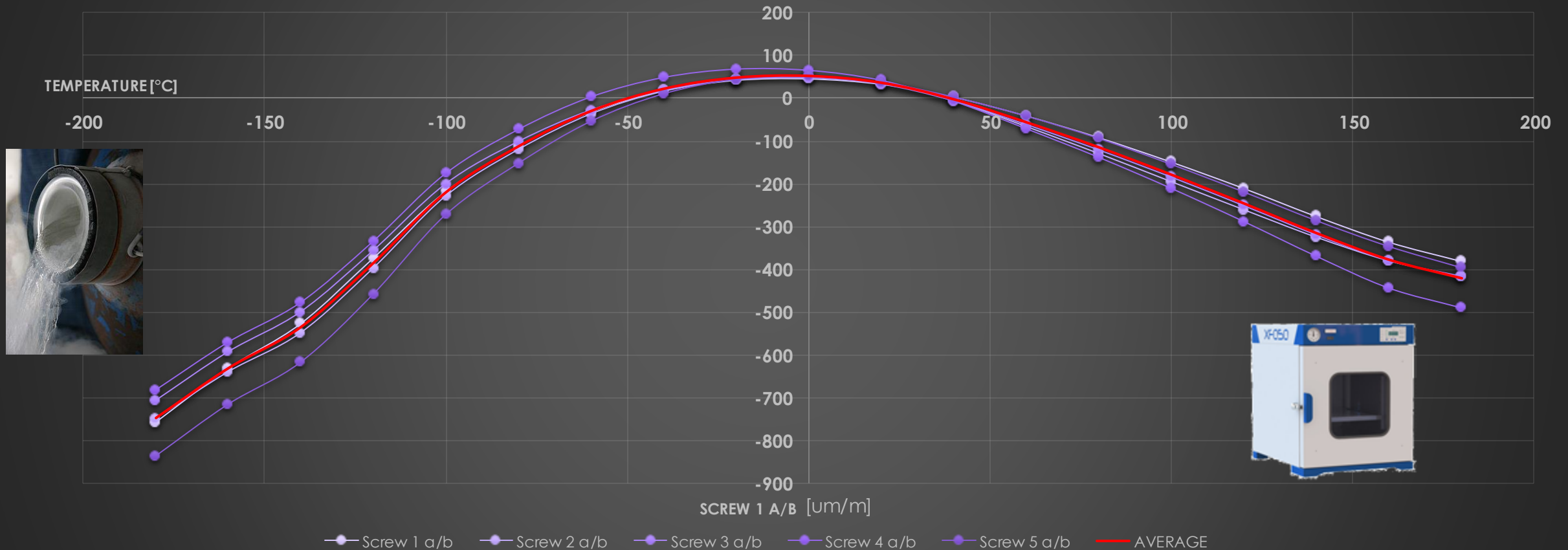
Modus operandi with all screws:



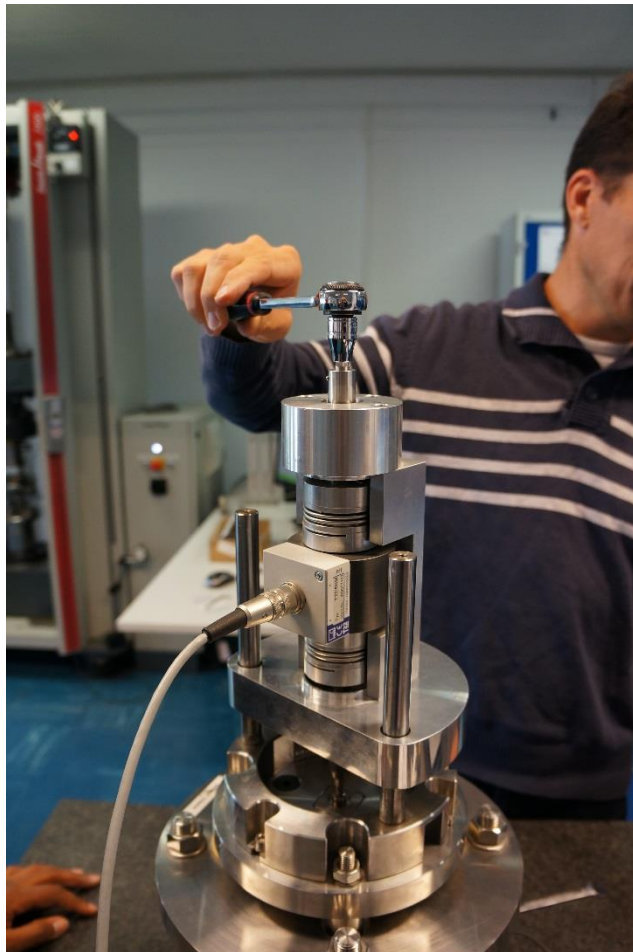
Tested at 473 K during	0 min	5 min	10 min	15 min	30 min
Tested at 77 K during	0 min	5 min	10 min	15 min	30 min



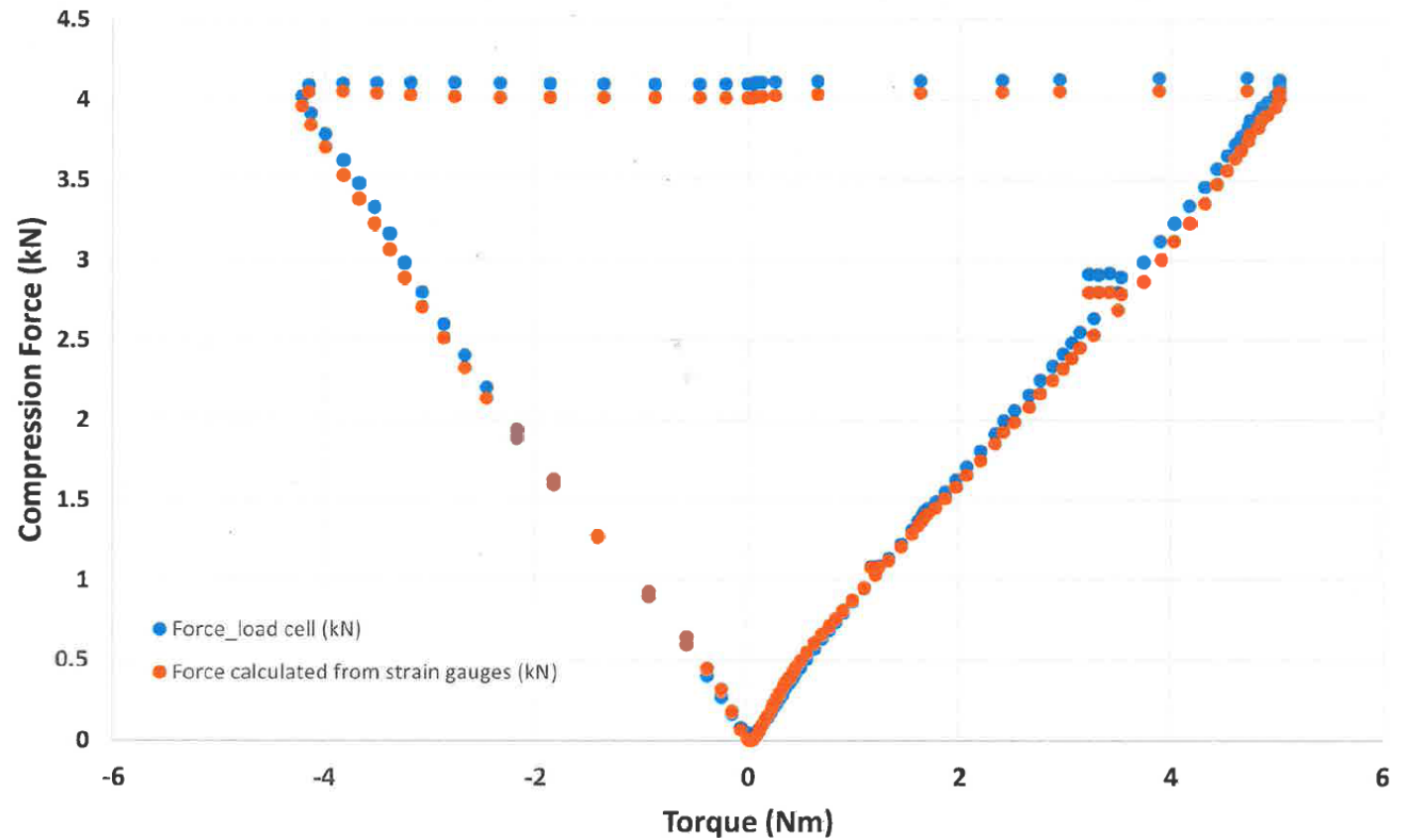
Apparent strain values vs temperature



Tightening tests

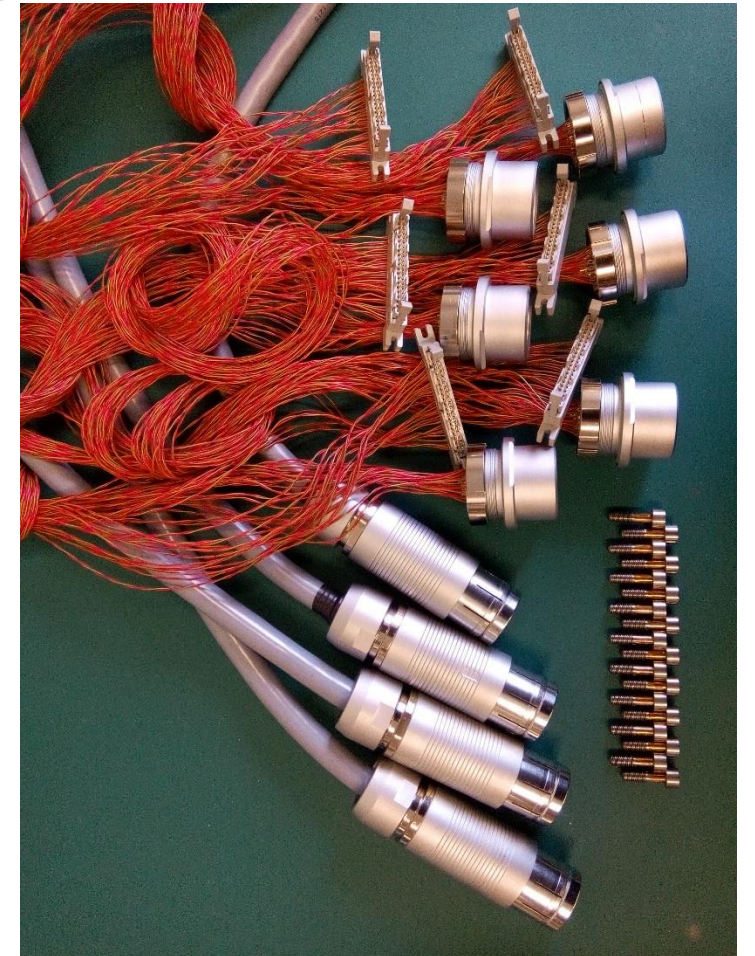


Validation tests of instrumented screws for CRAB Cavity Tank



Status

- 20 screws (waiting for new wondered strain gages)
- 6 females Fischer connectors + connector 3M 40 pins (+ 1 spare)
- 4 males Fischer connectors



Status

- 10 screws
- 2 males Fischer connectors
- 800 mm length of fine wires

