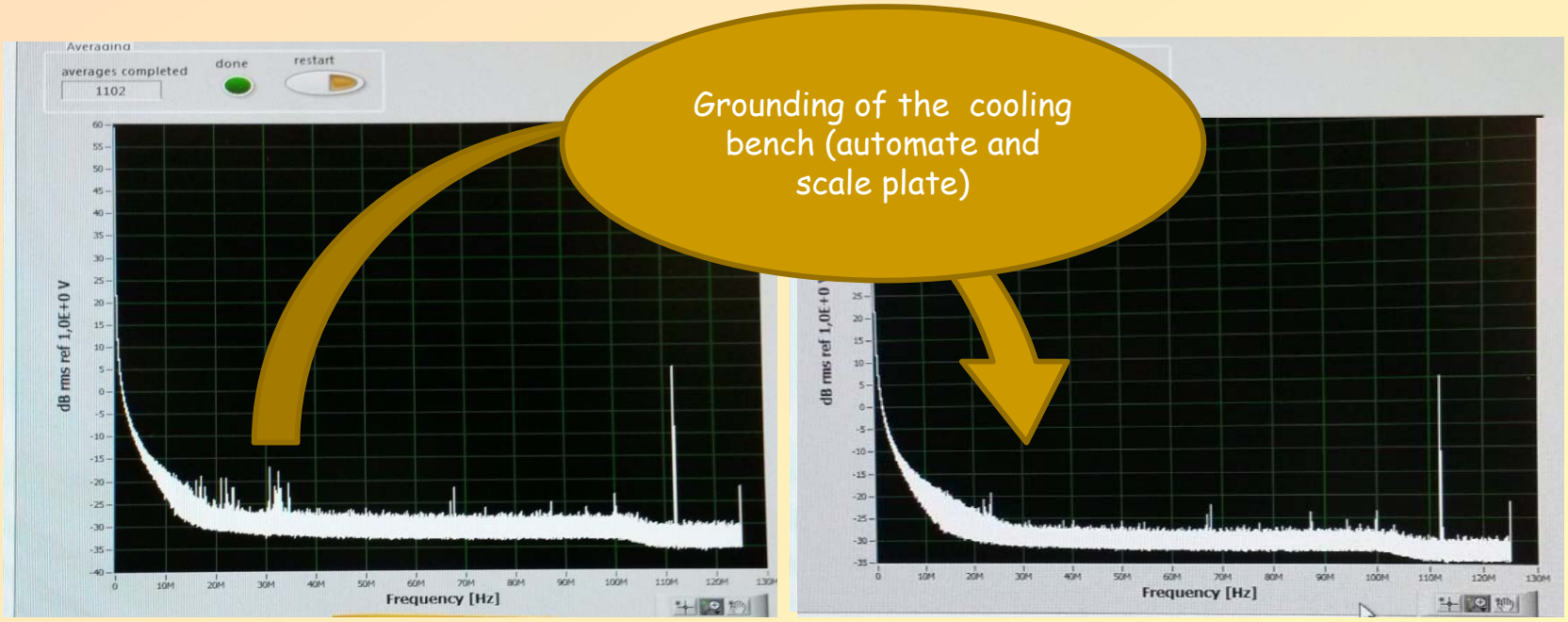
IPHC Detector Lab status report

M-H SIGWARD - M FILLIGER - F DIDIERJEAN - G DUCHENE

EMC

2017 : first Customer Acceptance Test
Random signal noise: reiteration of the measurements to get correct resolution values

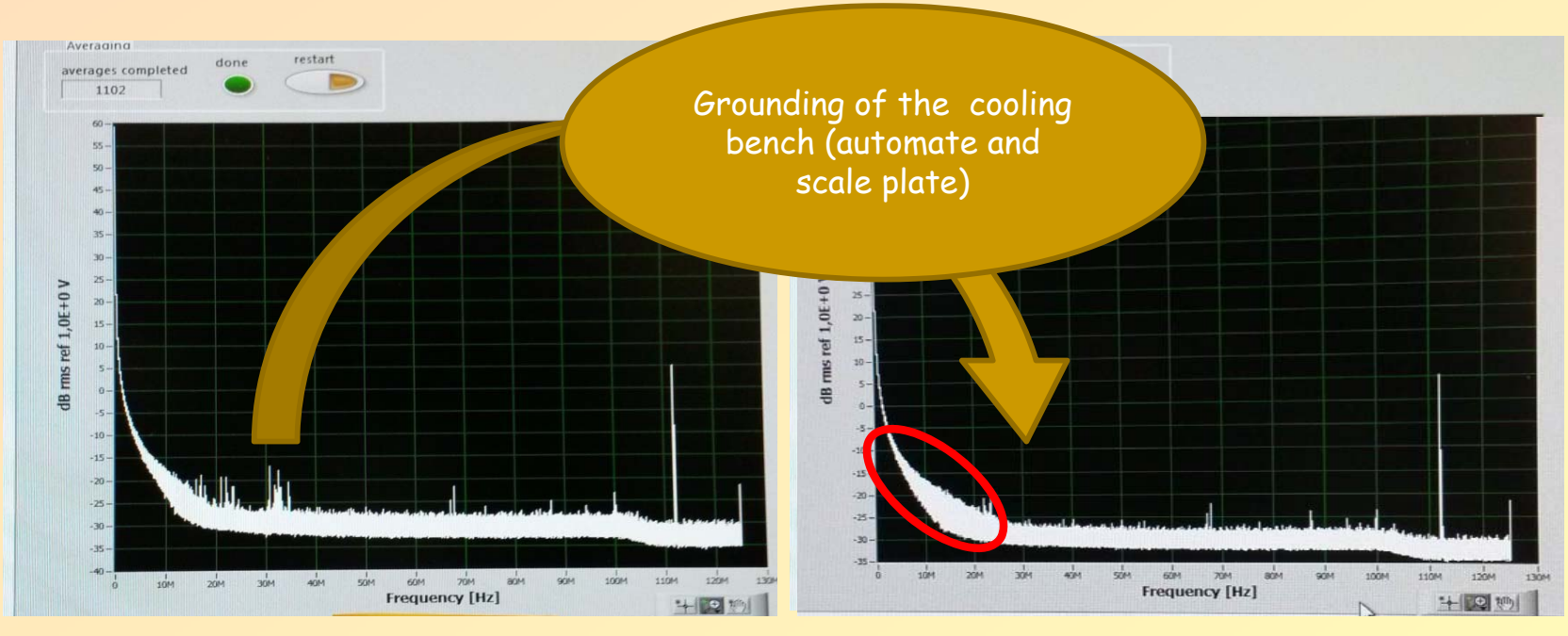
→ Connecting the equipment to the ground floor plane



EMC

2017 : first Customer Acceptance Test
Random signal noise: reiteration of the measurements to get correct resolution values

→ Connecting the equipment to the ground floor plane



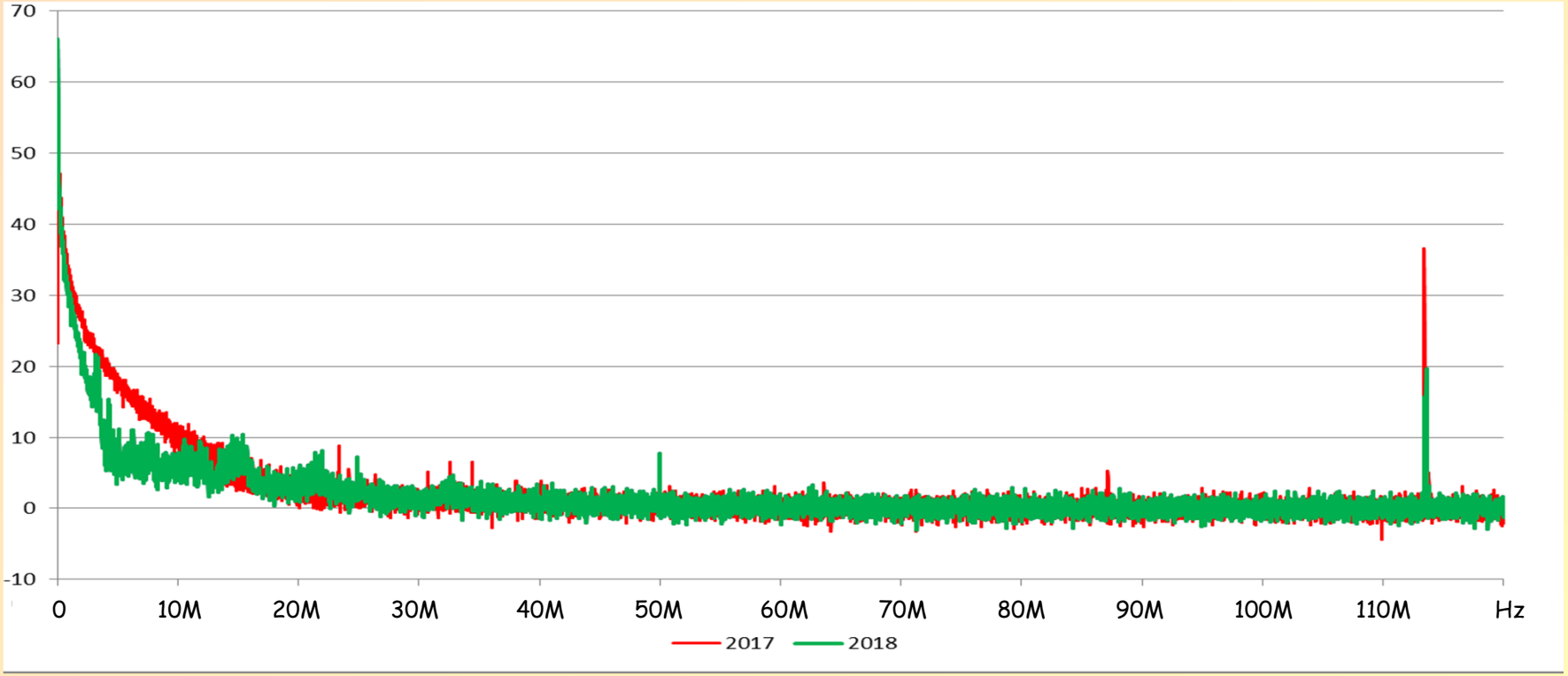
Working on frequencies below 20MHz to improve the resolution

EMC

→ At building level: grounding on the same ground

- ❖ all switch wall sockets
- ❖ all electrical panels of the building

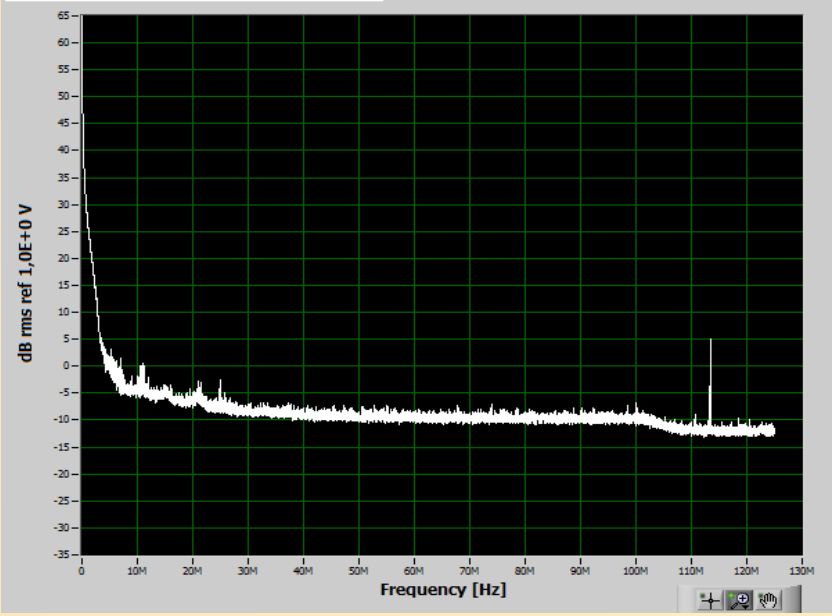
→ At equipment level: HV modules, main amplifier and new racks

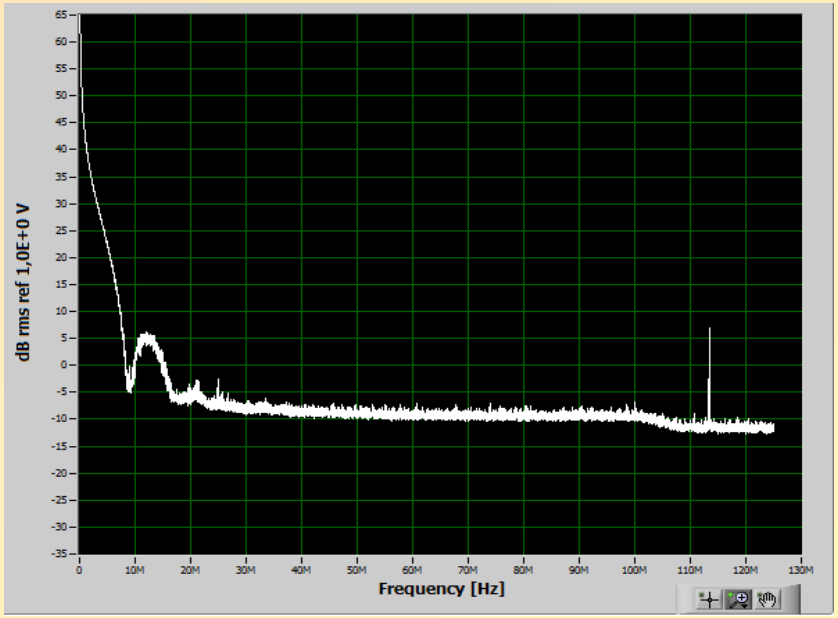


➔ Measurements are done in one shot (except for the Core at low-energy)

EMC

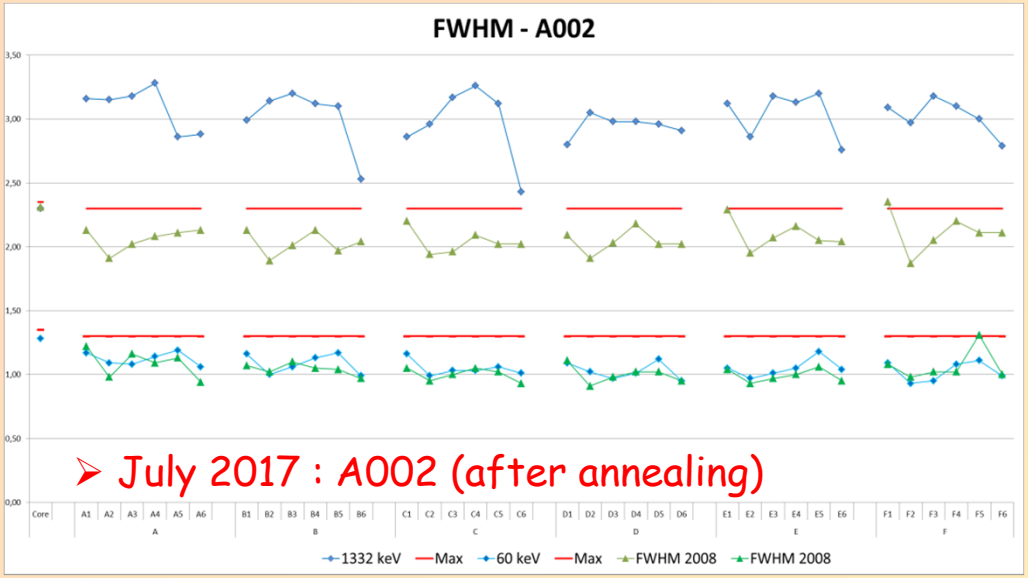
There are still some disturbances due to the air conditioning system (located in the local next to the det lab) used for the TIER 2 computer room, the amphitheater, and the small animal laboratory.



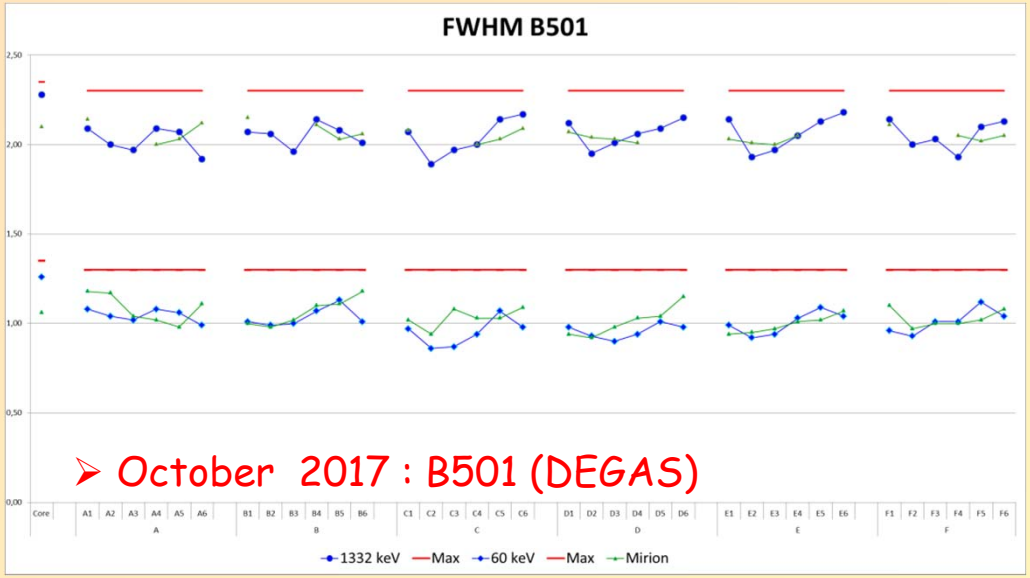


→ the grounds of the concerned electrical panels are still to be connected (grounding to be done autumn 2018)

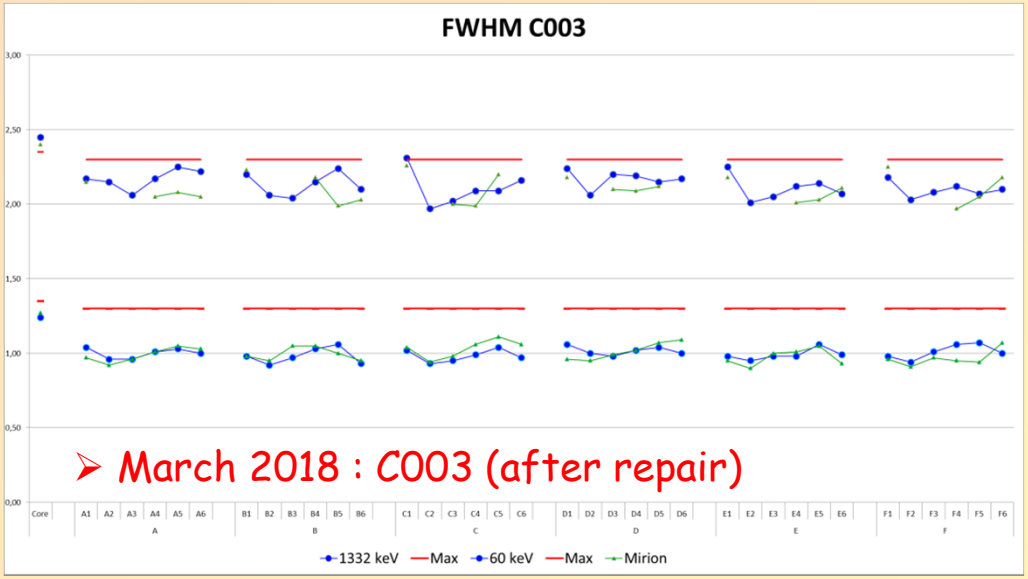
CATs



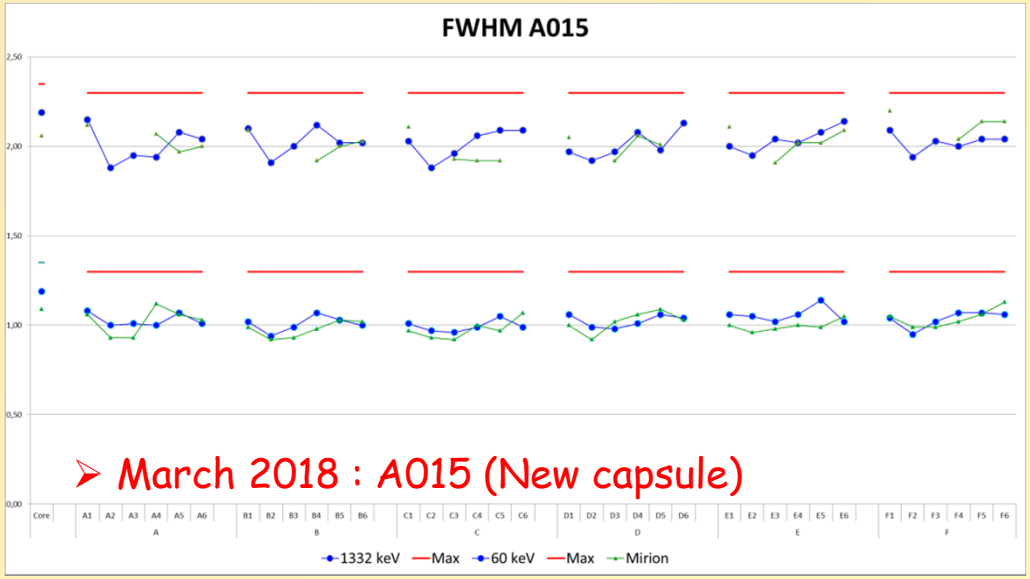
➢ July 2017 : A002 (after annealing)



➢ October 2017 : B501 (DEGAS)



➢ March 2018 : C003 (after repair)



➢ March 2018 : A015 (New capsule)

Participation in ATC refurbishment

- Köln - October & November 2017: ATC3 complete maintenance
  - Electronic disassembling
  - Cleaning
  - New feedthrough & µcables mounting
  - Test with 3 dummies

  → Waiting for capsules (Summer 2018)
  → Integration next week

- Ganil – February 2018 : ATC4, ATC5 et ATC10
  - Diagnosis of breakdowns
  - Changing FETs and FET HT cards
  - Tests, pumping, cooling
  - Back to the AGATA frame structure (ATC4 and ATC5)

Conclusion

- EMC : last grounding connections
- CAT/FAT of new or repaired capsules
- Participation in future ATC maintenance or repair campaigns

Thank you !