

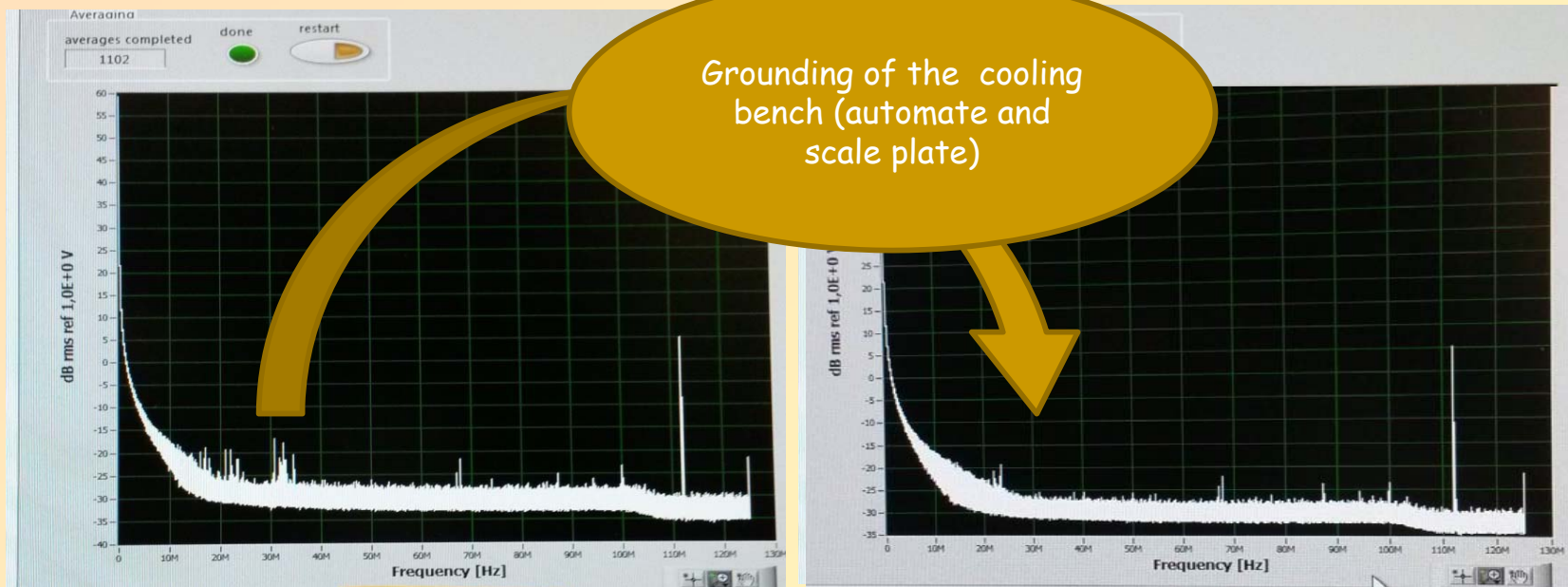
IPHC Detector Lab status report

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

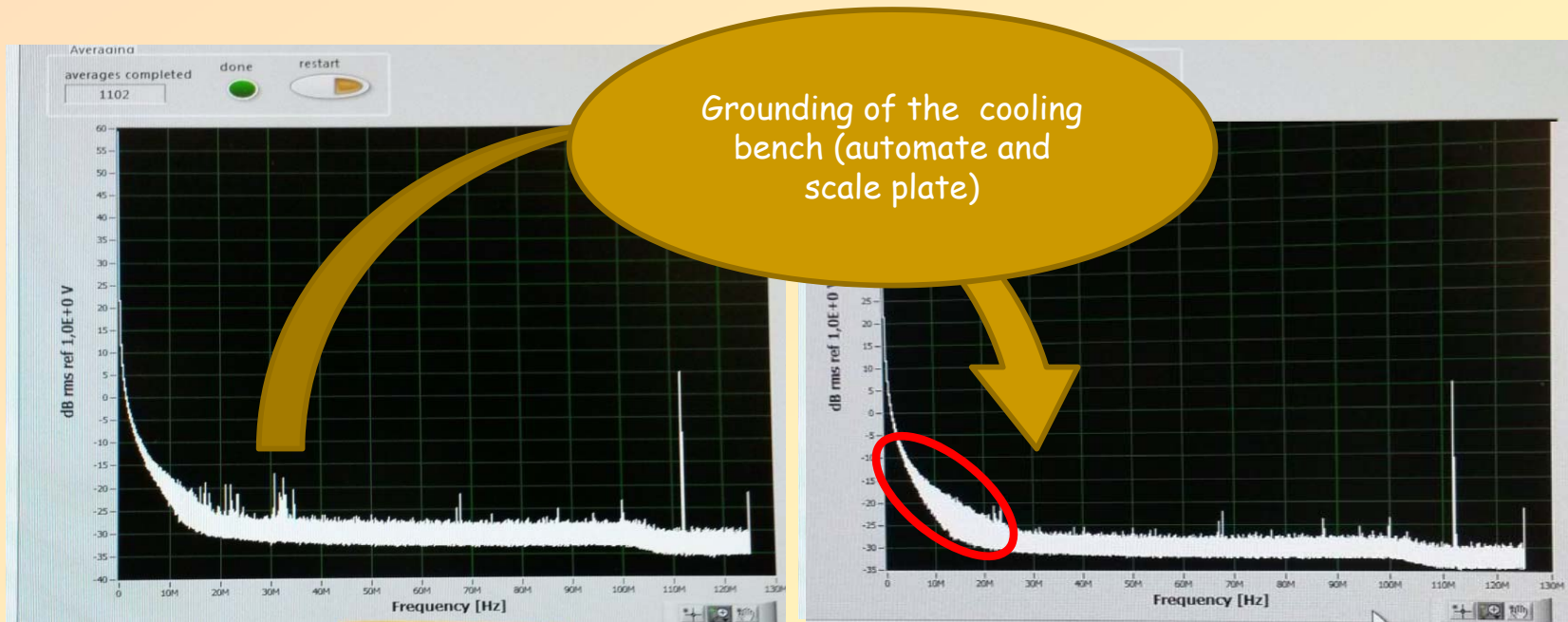
→ Connecting the equipment to the ground floor plane



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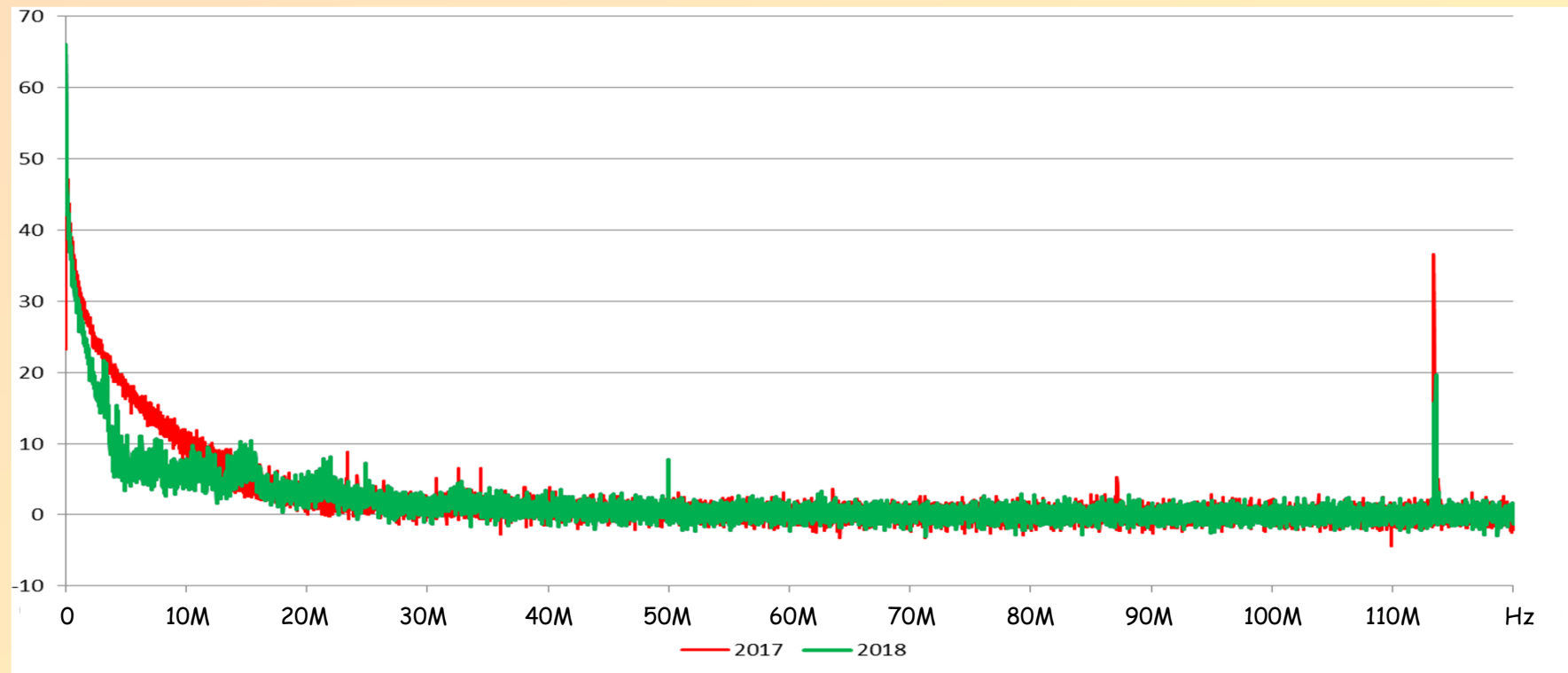


Working on frequencies below 20MHz to improve the resolution

EMC

- At building level: grounding on the same ground
 - ❖ all switch wall sockets
 - ❖ all electrical panels of the building

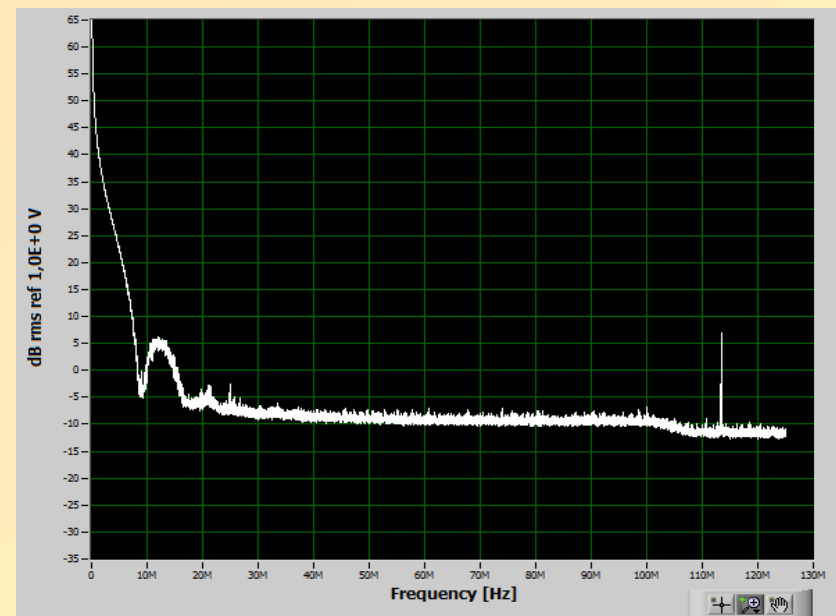
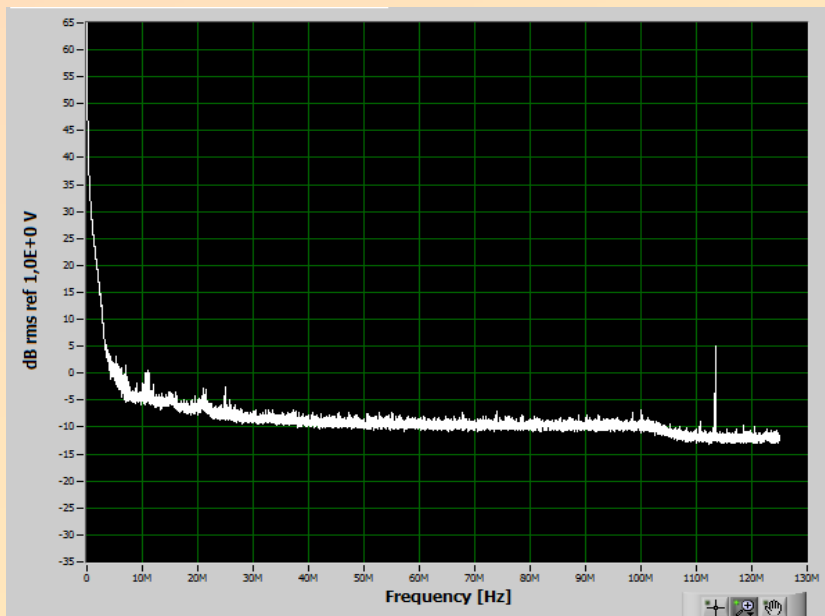
- At equipment level: HV module, main amplifier and new racks



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

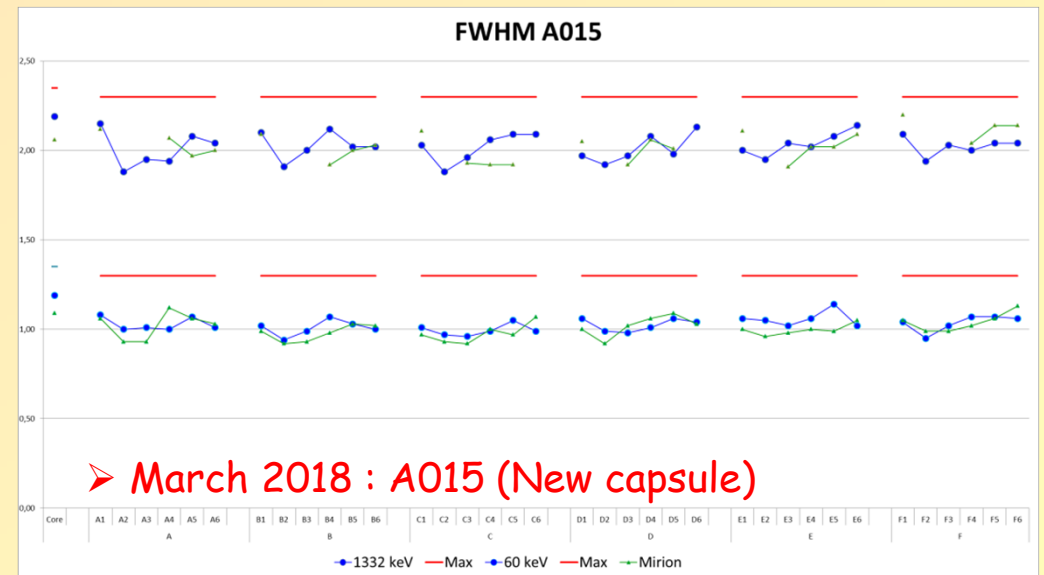
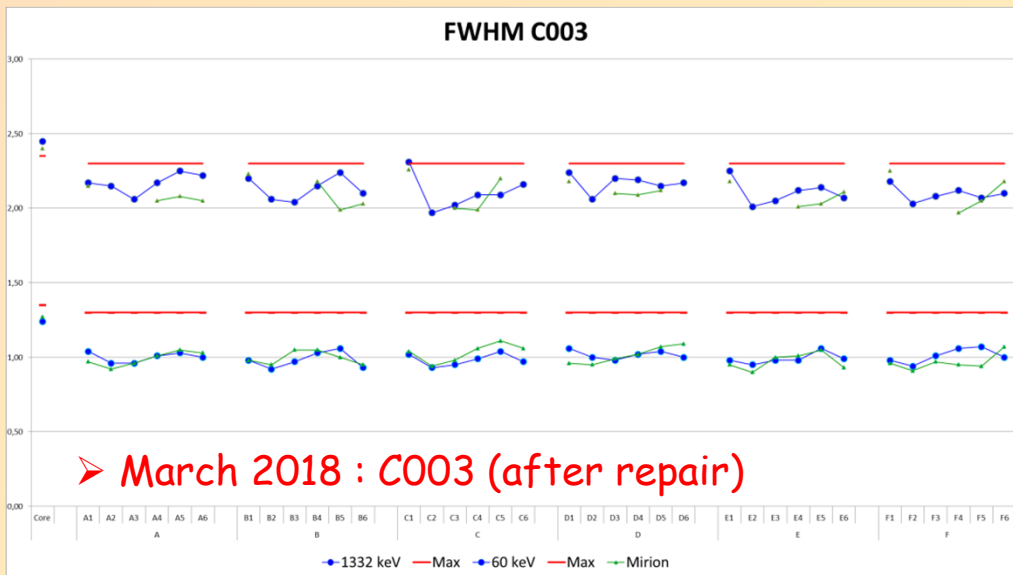
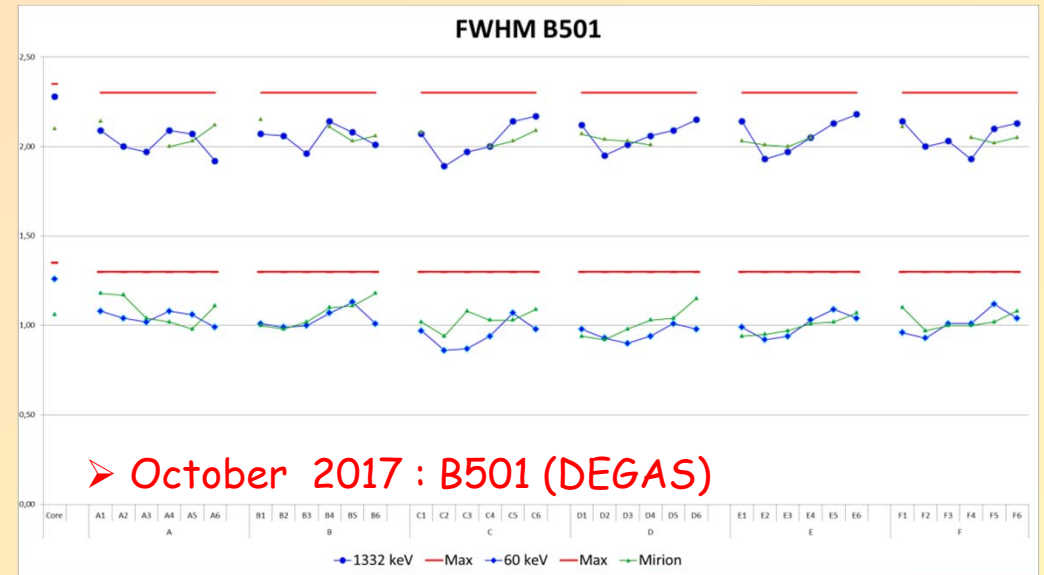
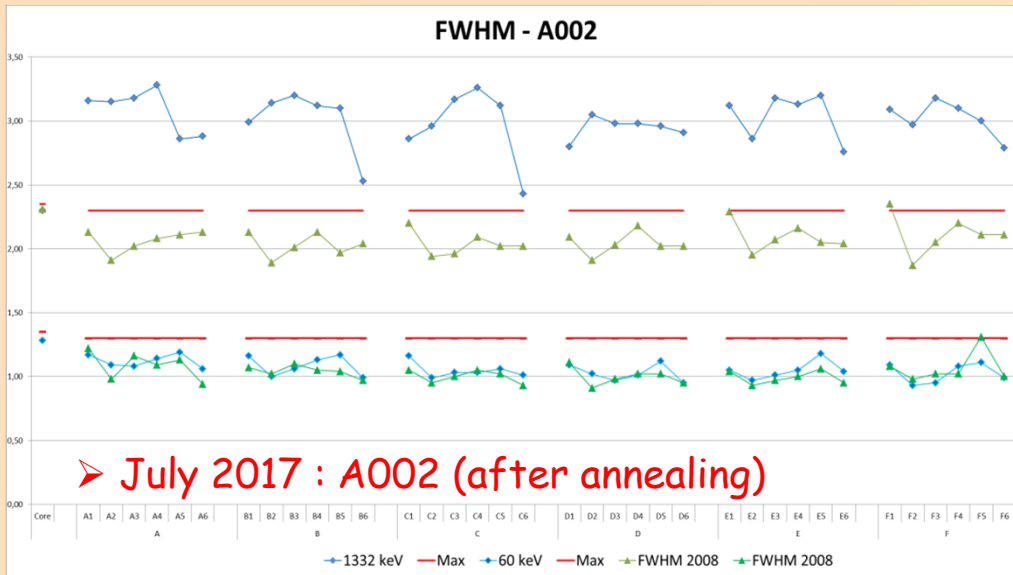
EMC

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



Participation in ATC refurbishment

- Köln - October & November 2017: ATC3 complete maintenance
 - ❖ Electronic disassembling
 - ❖ Cleaning
 - ❖ New feedthrough & μ cables 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 !