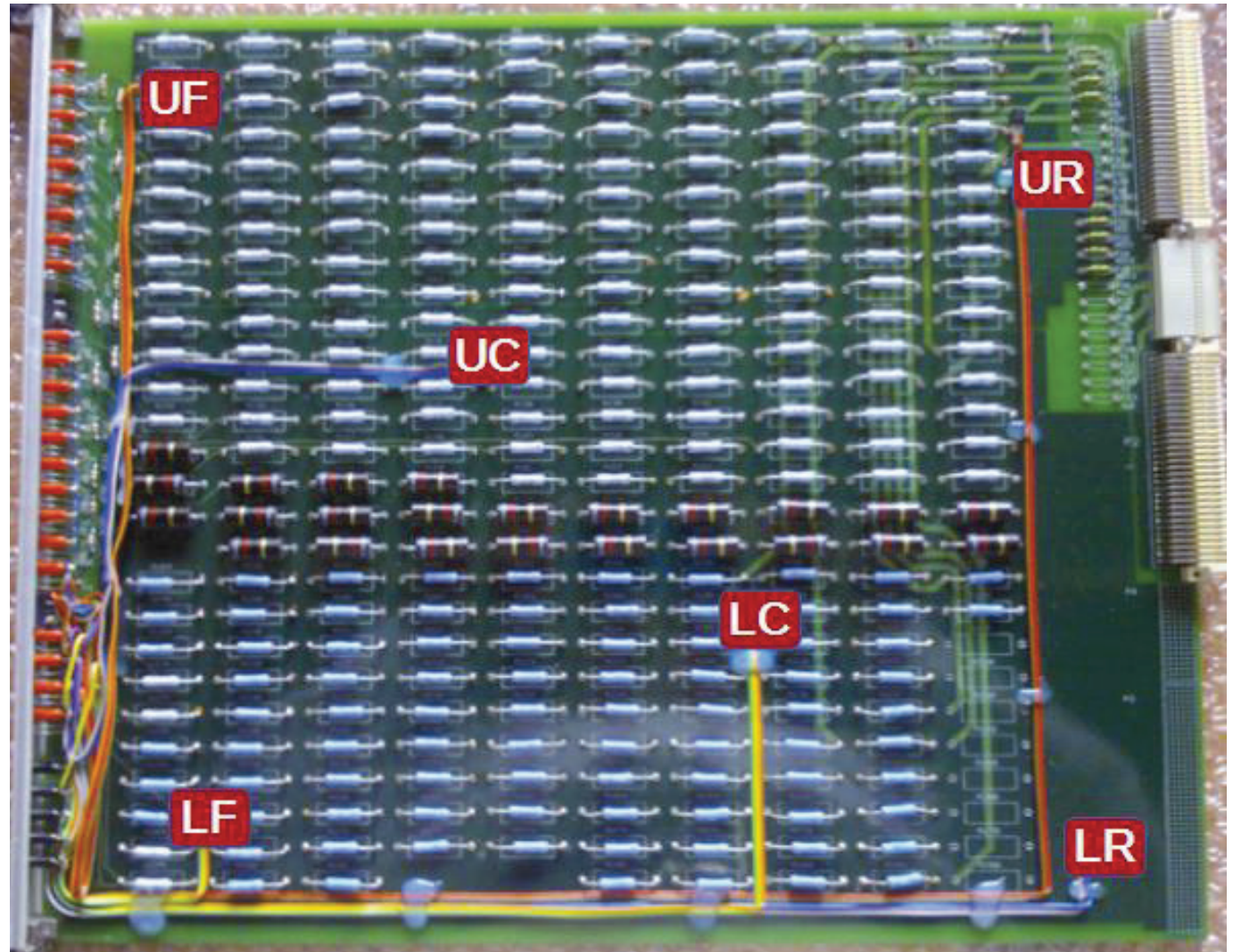
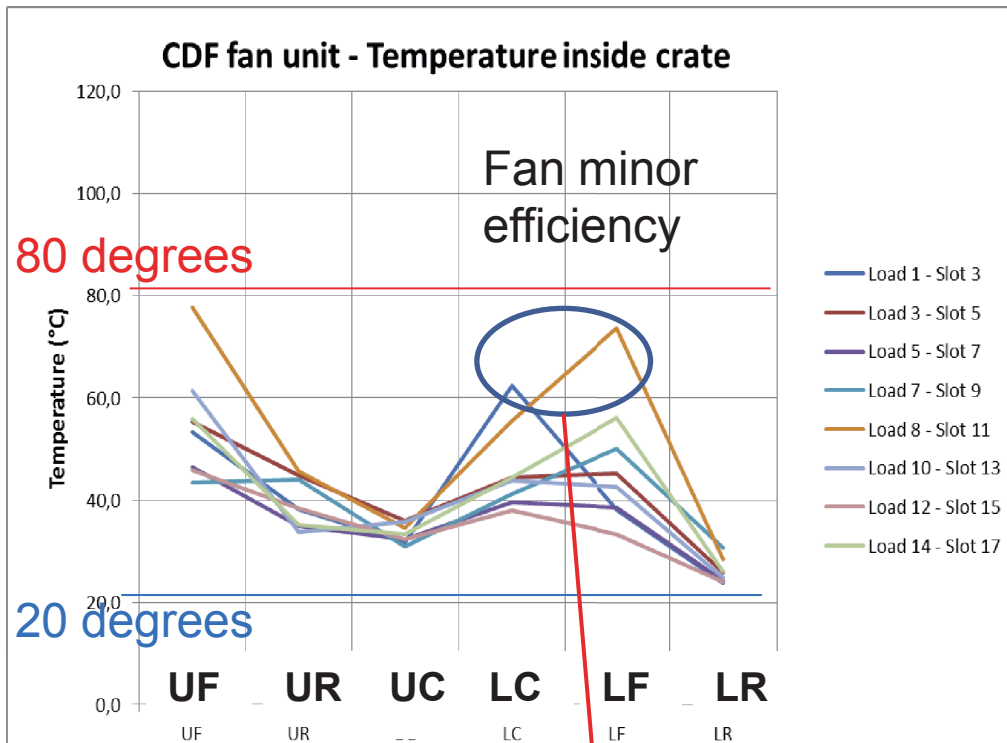


Cooling Test

- VME board 9U full of resistors
- 6 temp sensors:
 - Upper Front
 - Upper Rear
 - Upper Centre
 - Lower Front
 - Lower Centre
 - Lower Rear

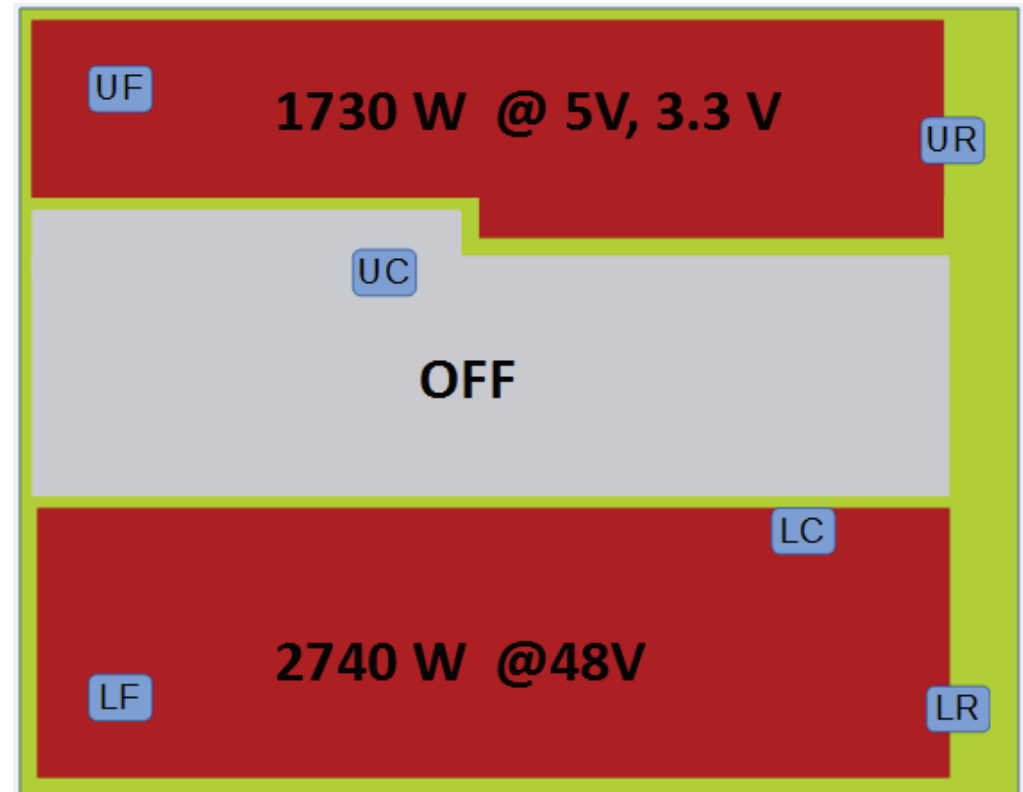


Cooling Test

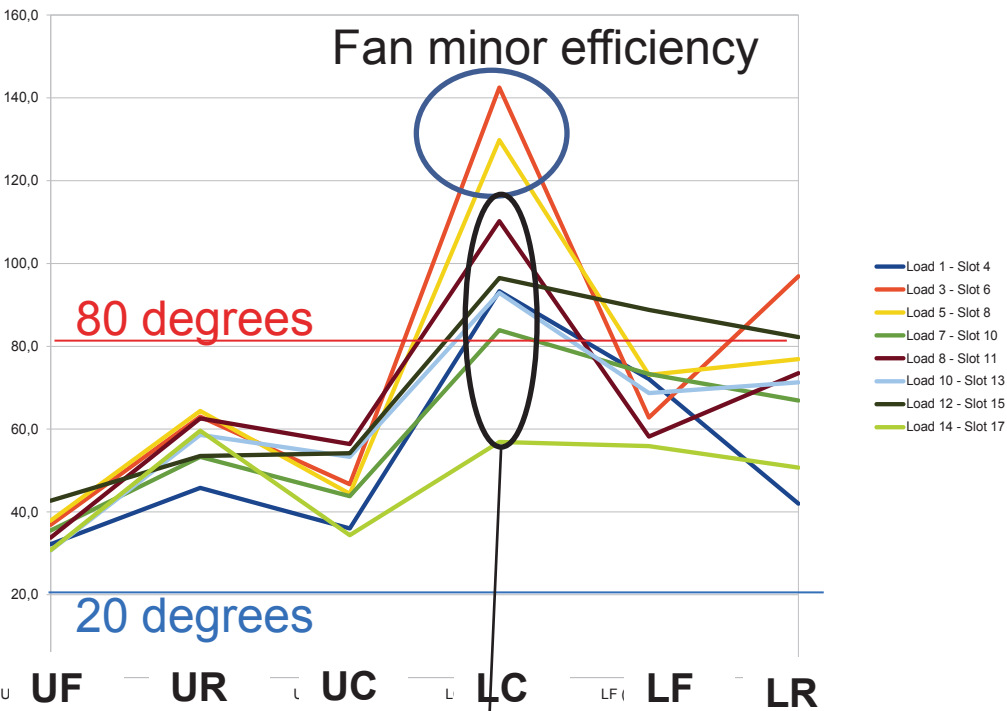


Missing wheel

- 2013 measurements:
- Test set up in Pavia
- TOT. WATTS ~4470 in front of crate
- ~298 W per board (15 boards)

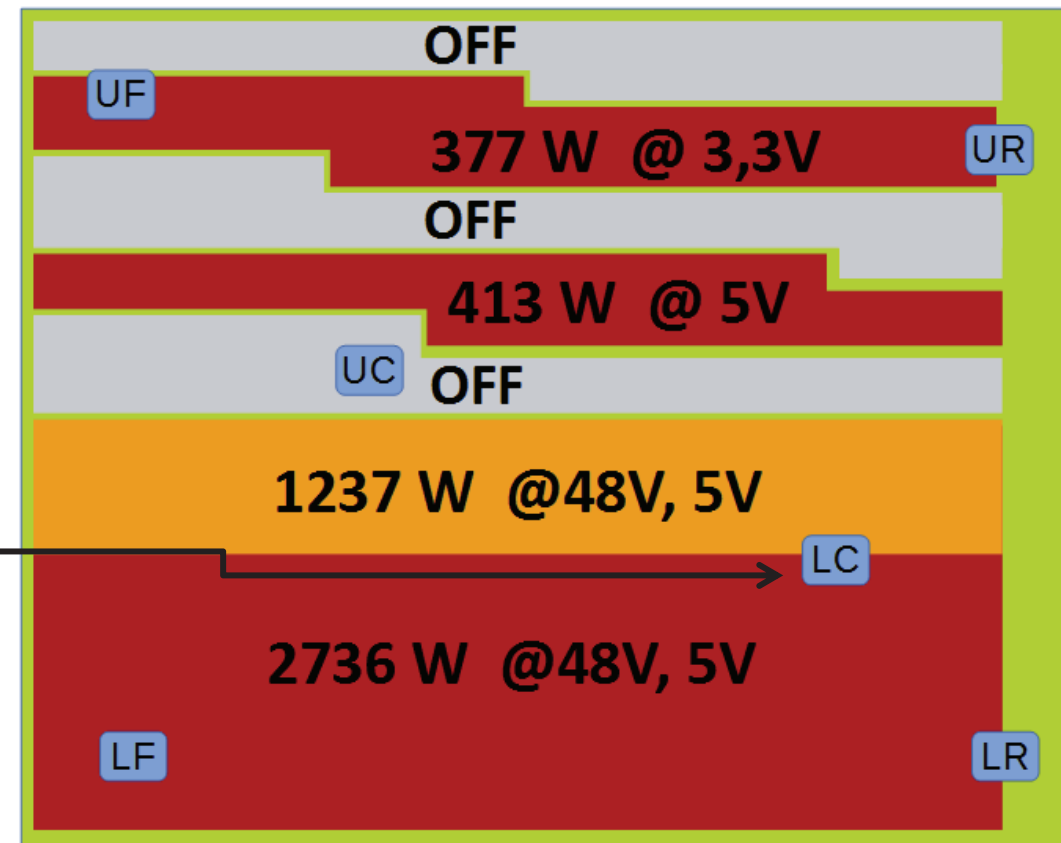


Cooling Test



Goes to previous Values if we turn Off the central region

- 2014 measurements:
- Test set up in USA15
- TOT. WATTS ~4763 in front of crate
- ~318W per board (15 boards)



What we have understood and future plan:

- Heat transfer from PCB-resistances to air is minimum and **air is cold, PCB Hot.**
- Good air chilling and small area of heat exchange
- The board full of resistors does not emulate the AM boards behavior properly
- In this week we are repeating the test with boards that are more similar with the final boards
- We asked to IMEC also Temp Simulations to optimize the heat exchange capability of the AM chip06

