



# SOURCE TEST

NWU

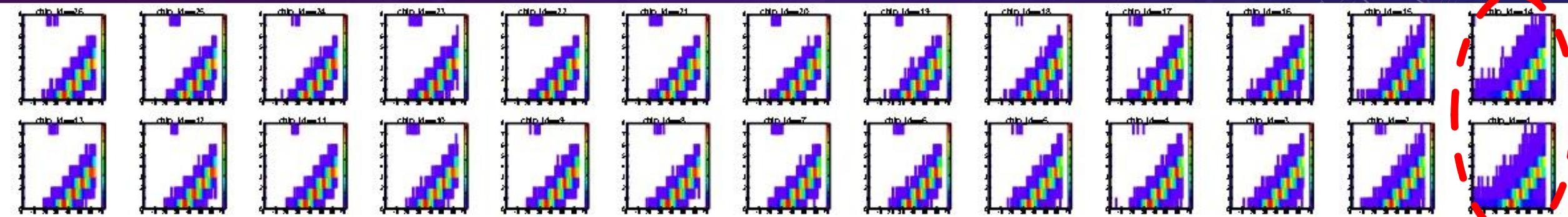
YUMIKA NAMIMOTO

# FISH-BONE PHENOMENA

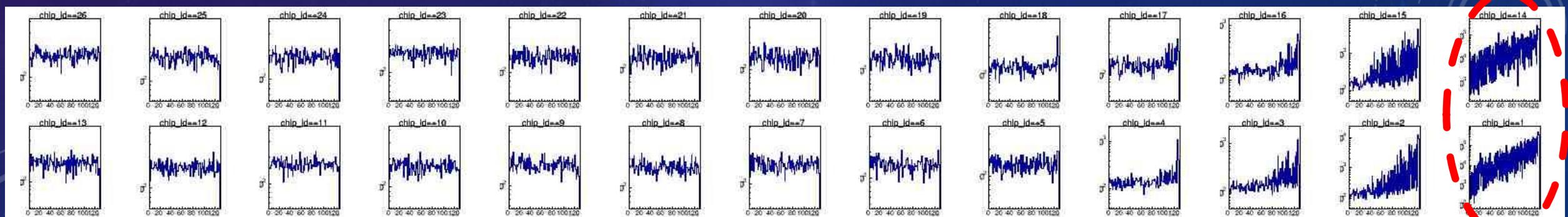
- Now we check source test fixture's operation.
- If control box power ON, many noises come to chip1,14.
- In source test result, chip1 and 14 shows like “fish-bone” structure.



## Calibration test result



## Source test result



# NOISE REMOVING①

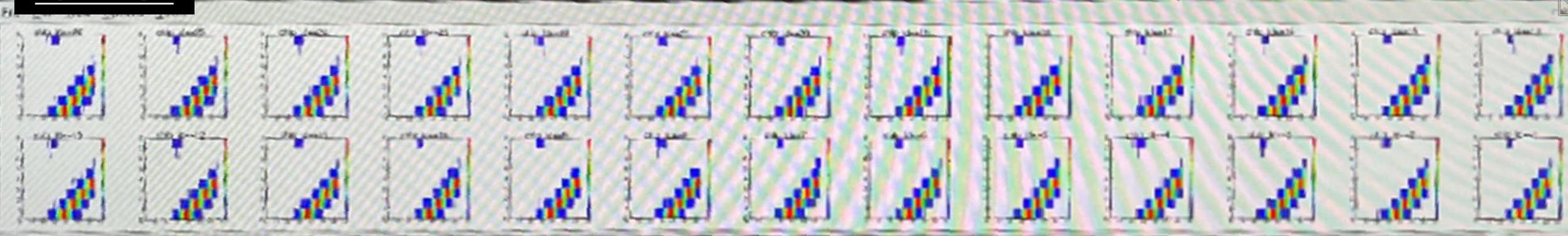
- Dr Hachiya improve GND cable.
- Control box's ground cable connected to source test fixture.



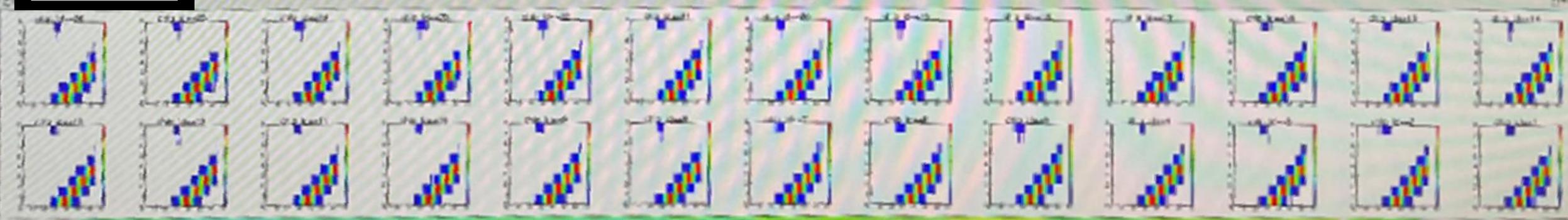
# NOISE REMOVING②

- After GND line improved, calibration test results don't show noises either motor power ON or OFF.

**POWER ON**

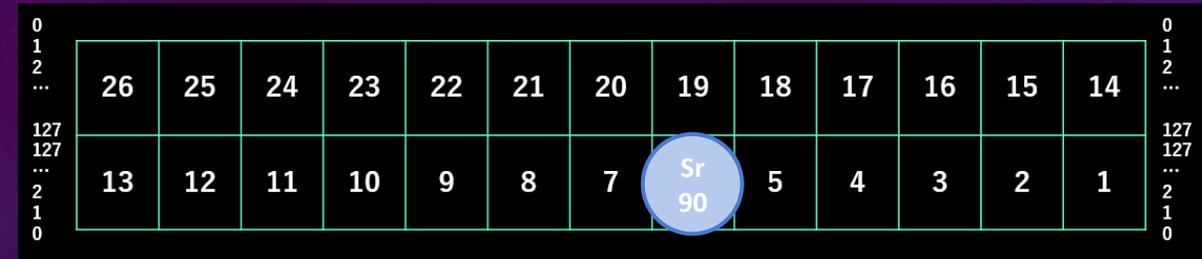


**POWER OFF**



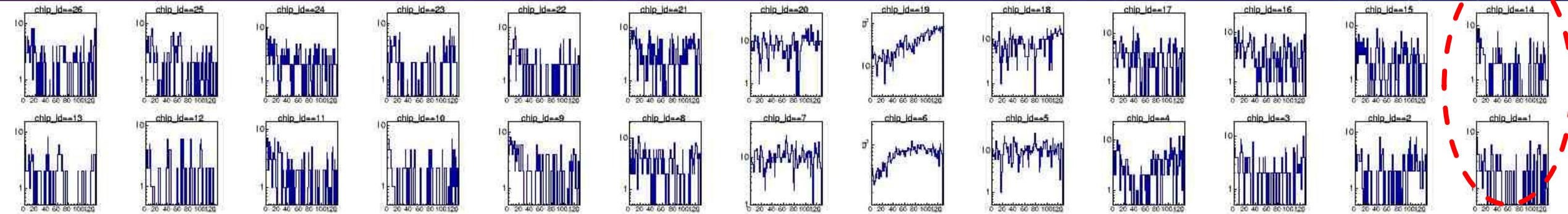
# NOISE REMOVING: SOURCE TEST RESULT①

- These pictures show source test results.
- Source doesn't move.

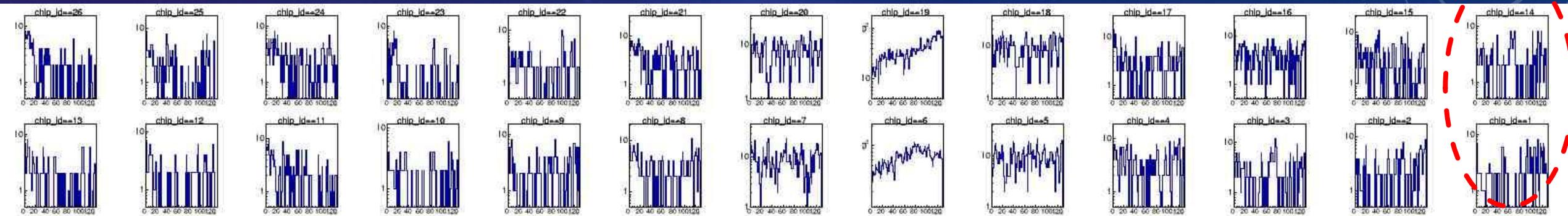


Either power ON or OFF, chip1,14 shows same results.

## POWER ON

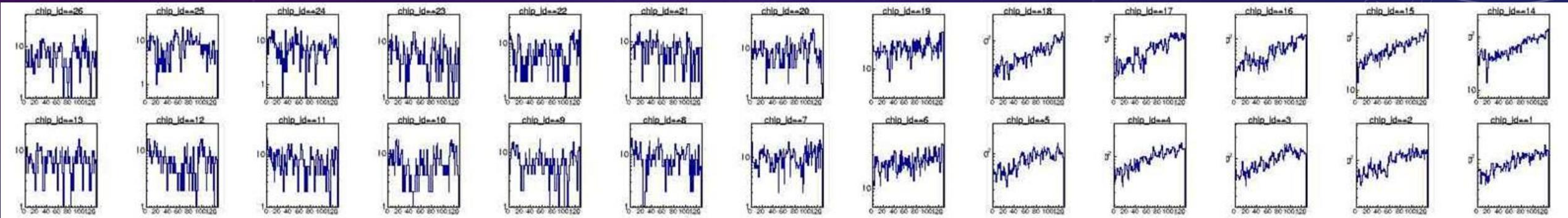
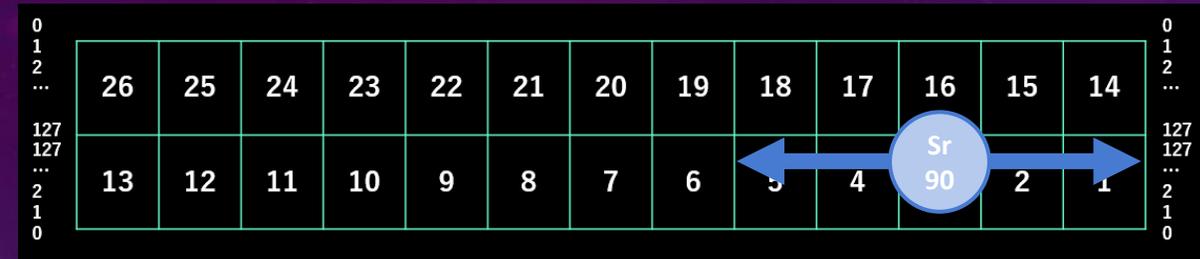


## POWER OFF



# NOISE REMOVING: MOVING SOURCE TEST.

- Source move from chip1 to 5.



- Chip1-5 and 14-18 show source signals.

# SUMMARY

- We can remove noises come from motor.  
→ We can use source test fixture without noises, so we can move source automatically.
- The purpose of source test is checking silicon sensor rapidly and easily.
  - We have 2 ways for source test, Self trigger test and External trigger test.  
→ We should evaluate which test is good for operation checking.  
→ Take both self trigger test and external trigger test results many times and compare them.