
Inter-run stability
13590 / 13535

Runs characteristics

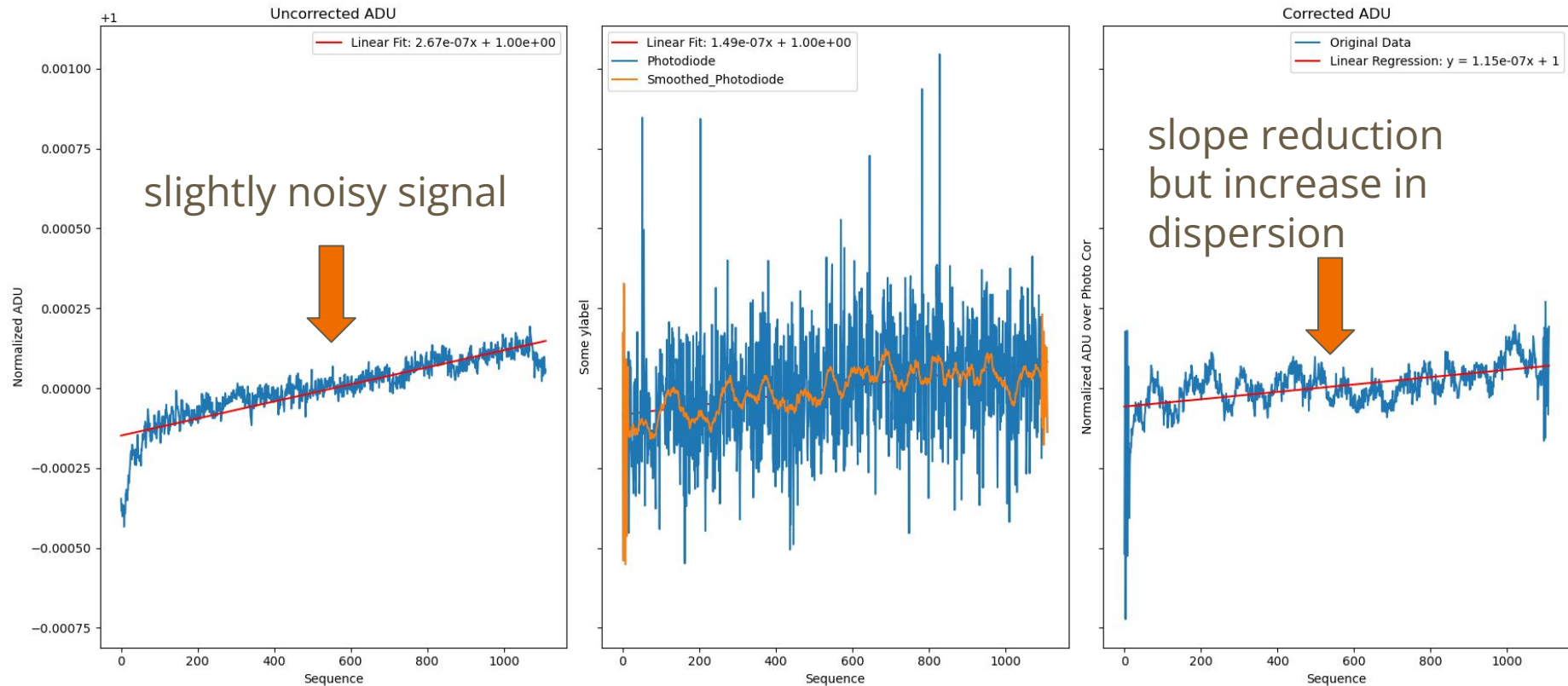
Similarities :

- Stability flat
- CCOB LED : 750 nm
- ~ a day of observations
- more than 1000 obs
- ADU ~ 15000
- ilt configuration

Differences :

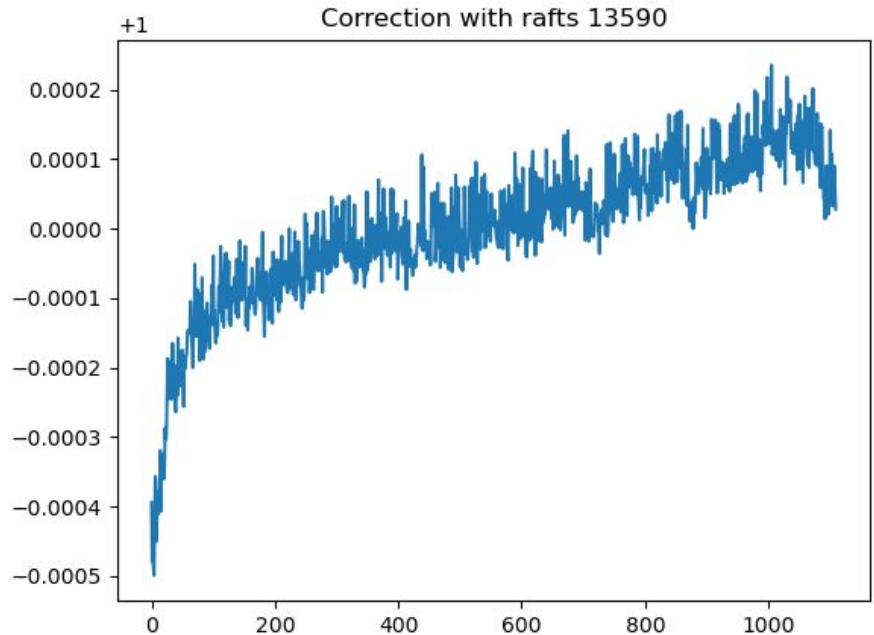
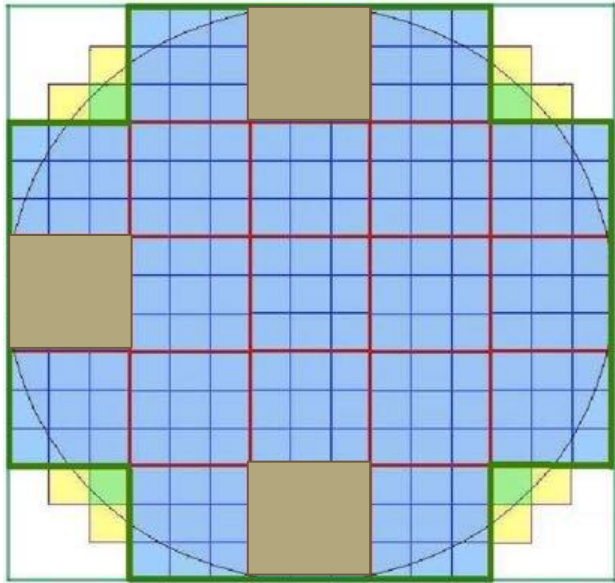
- separated by ~ 2 weeks
- e2v configuration

First ADU correction : exemple 13590



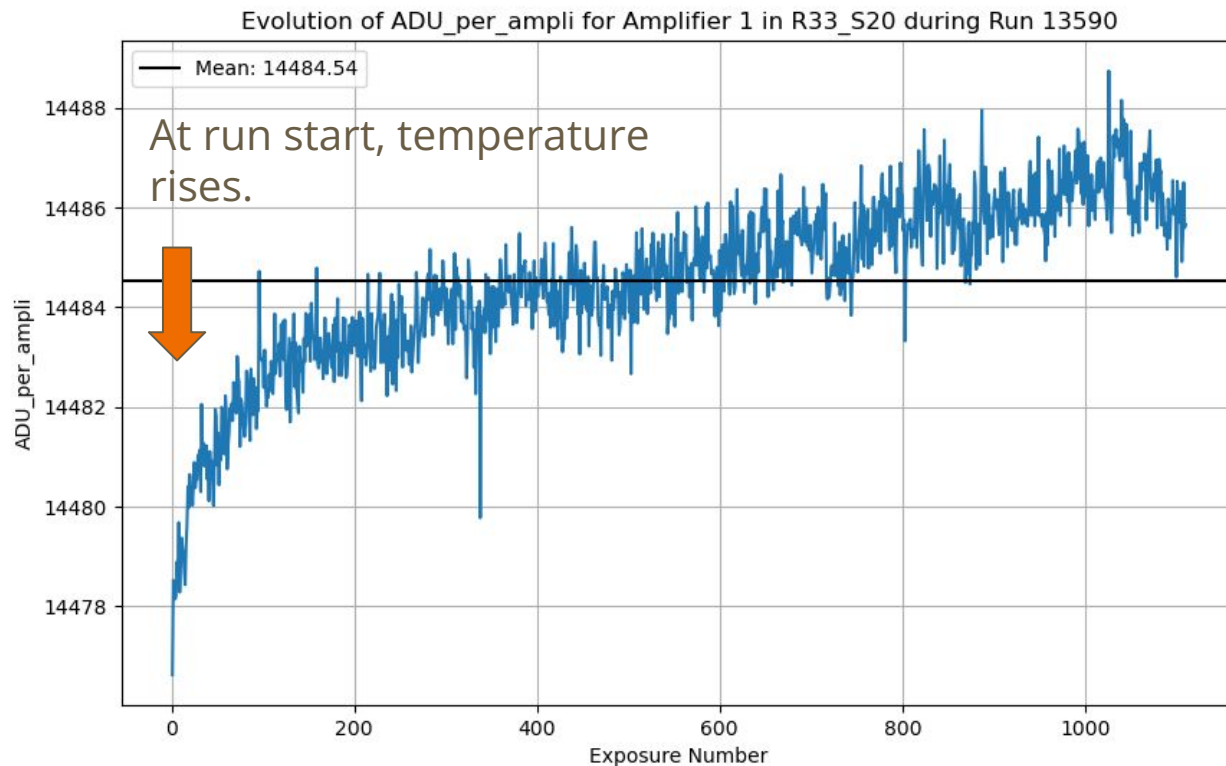
Correction 2 : correction by itl

correction rafts = ['R02', 'R20', 'R42'] removing common temp/flux modes



Median ADU across the run for an ampli

This study ignores start/end run effects, focusing on in-run stability.

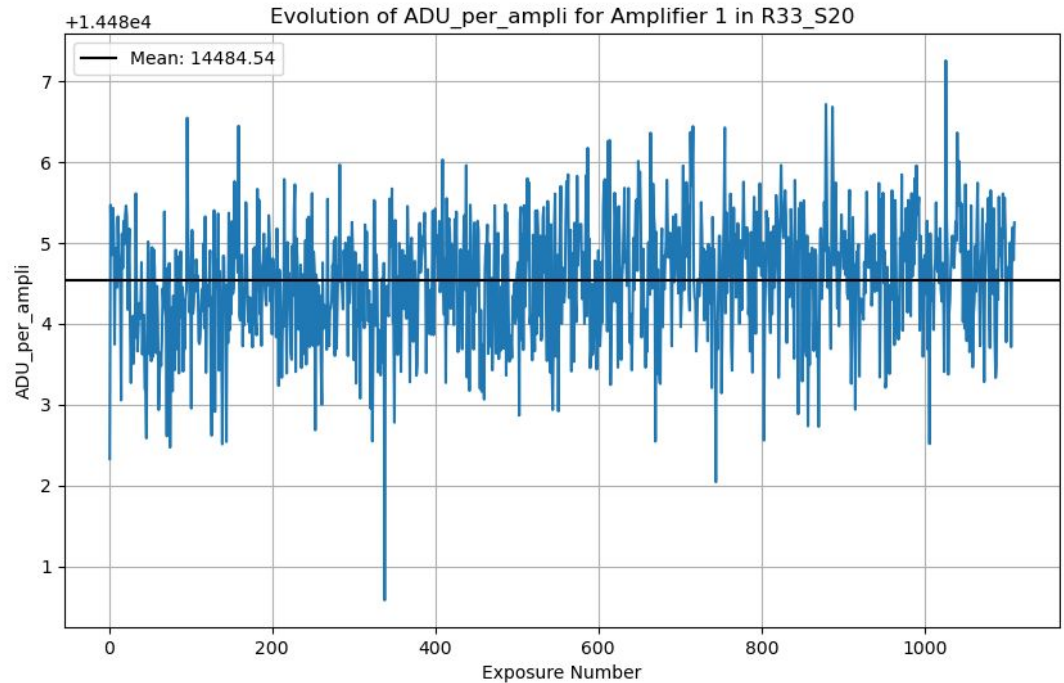


Median ADU corrected by itl rafts

After ITL raft correction :

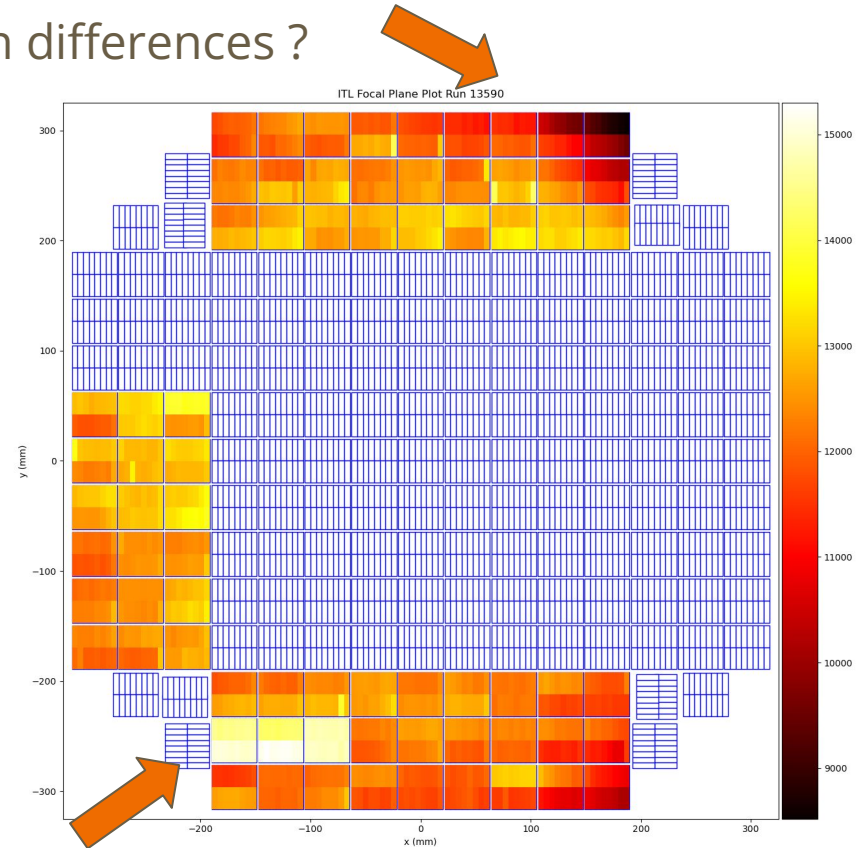
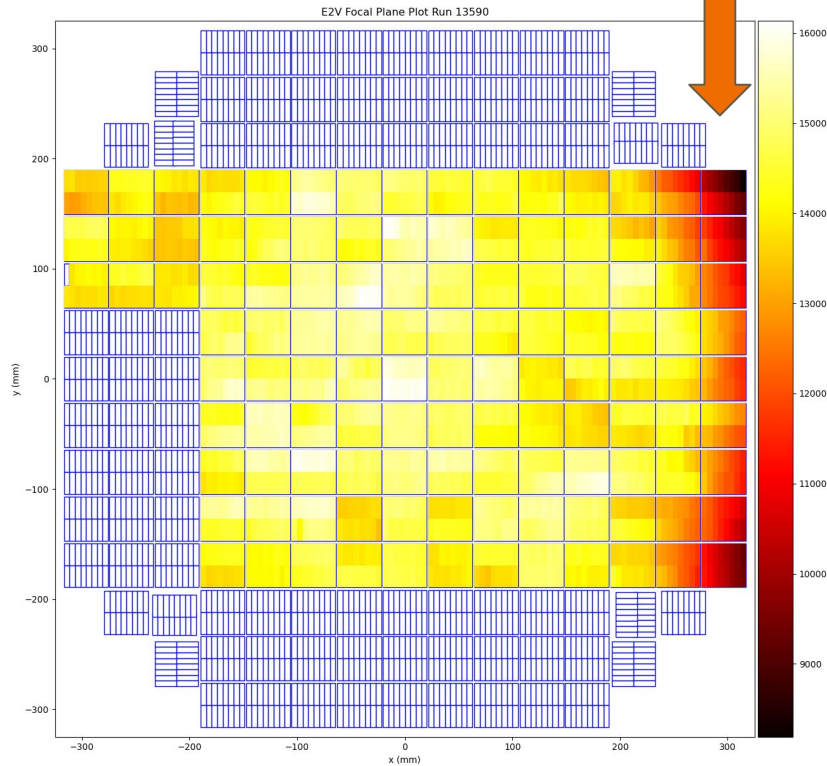
Deviation $\sim 2 \cdot 10^{-4}$ during the run

The slope is no longer visible



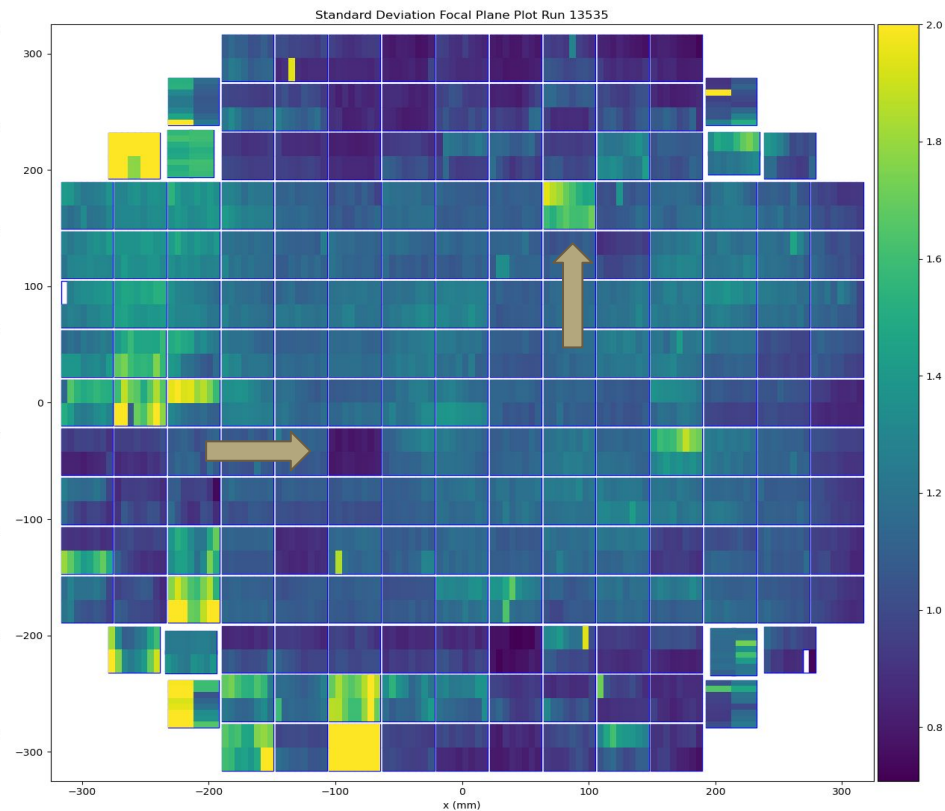
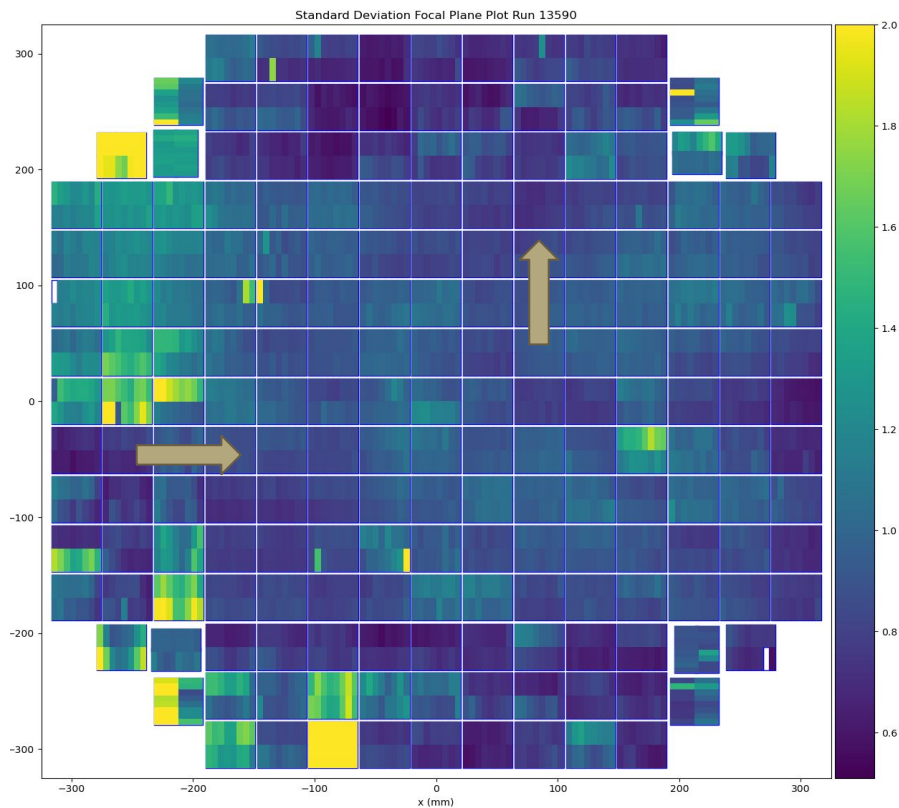
Corrected ADU on focal plane

Illumination differences ?

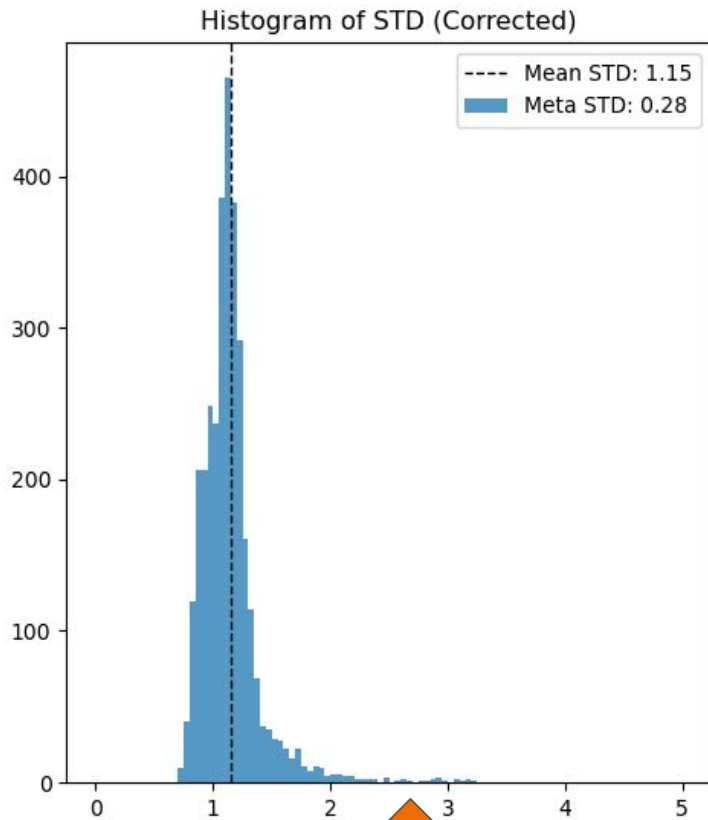
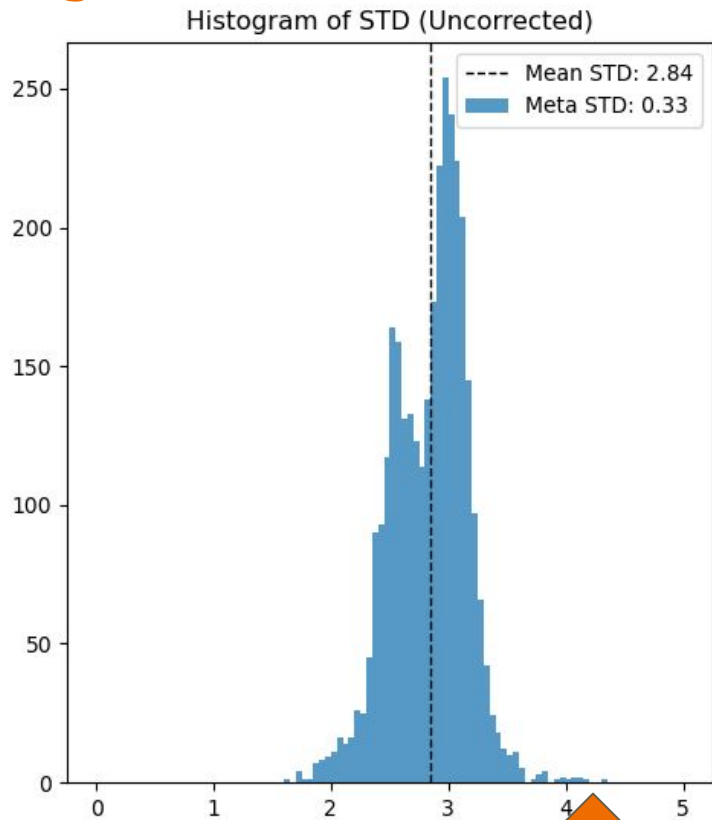


Gain differences

Focal plane std : 13590 and 13535



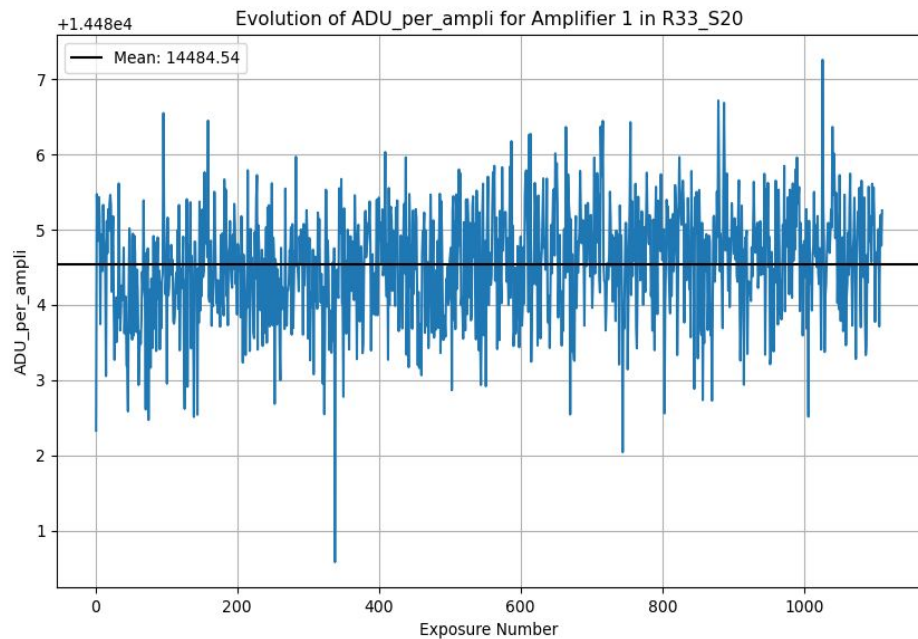
Histogram of standard deviations



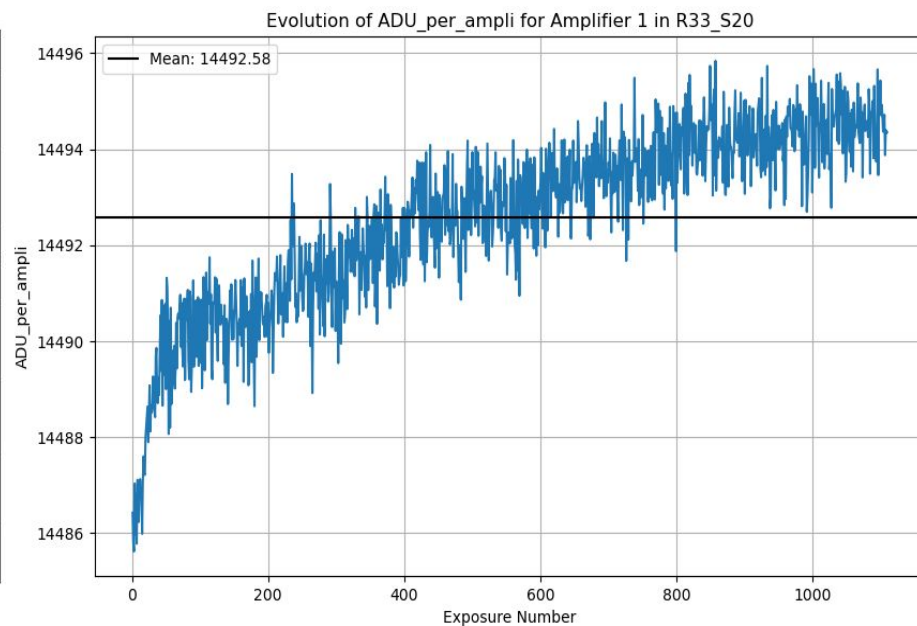
Distribution's tail

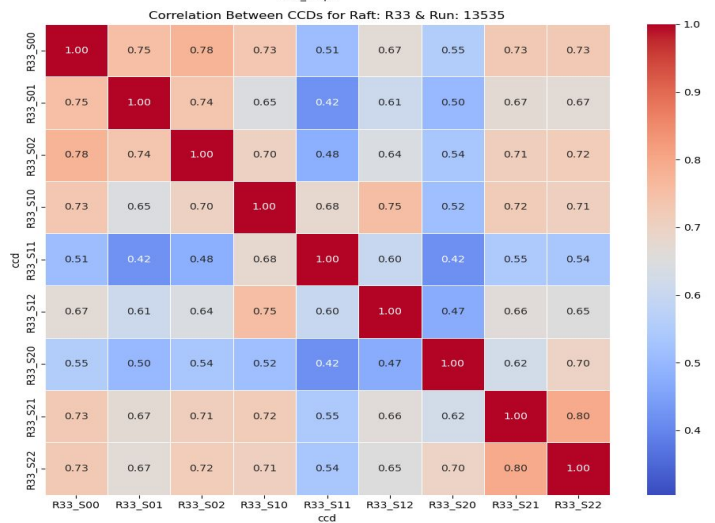
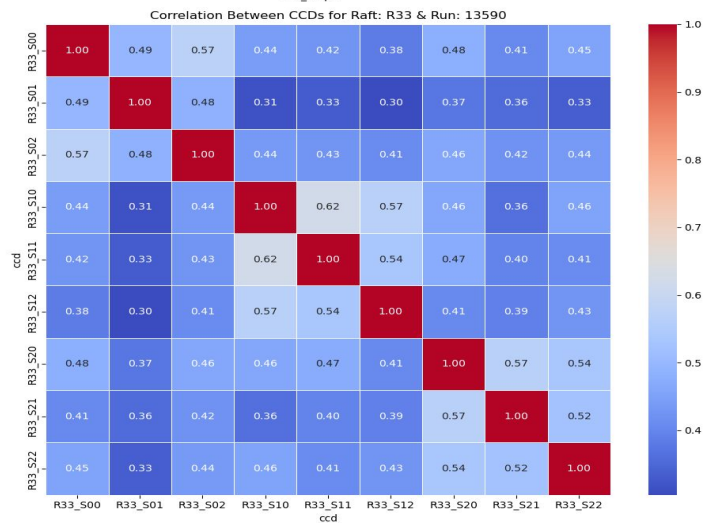
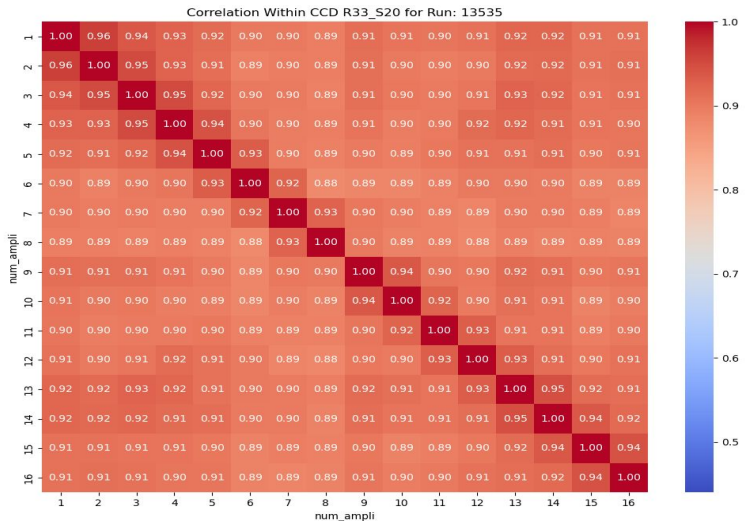
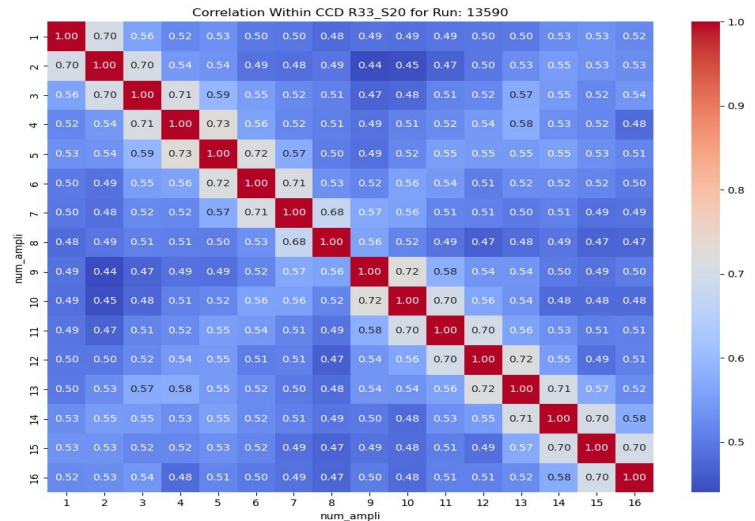
R33_S02

13590



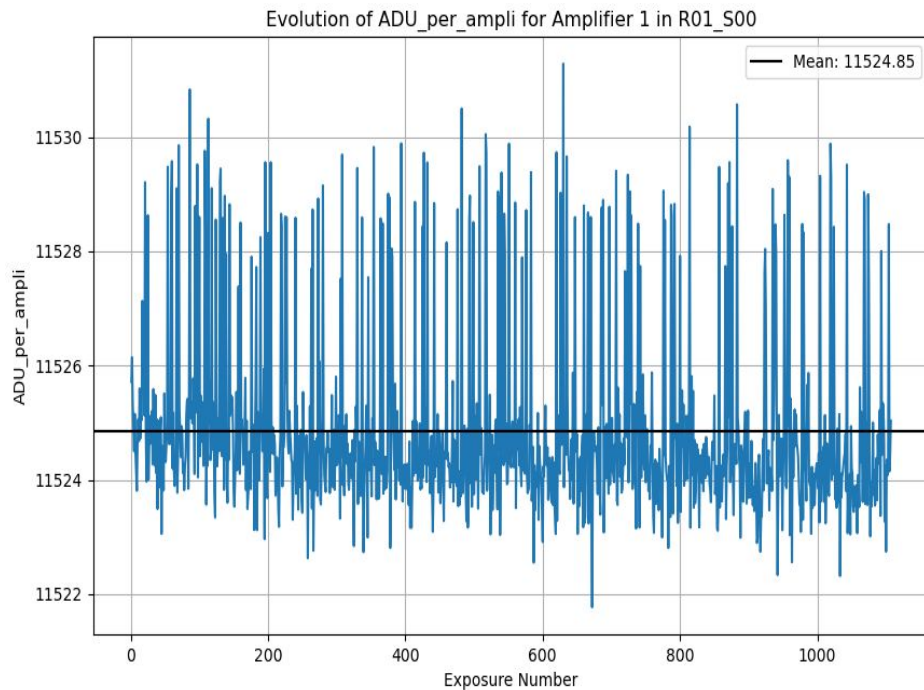
13535



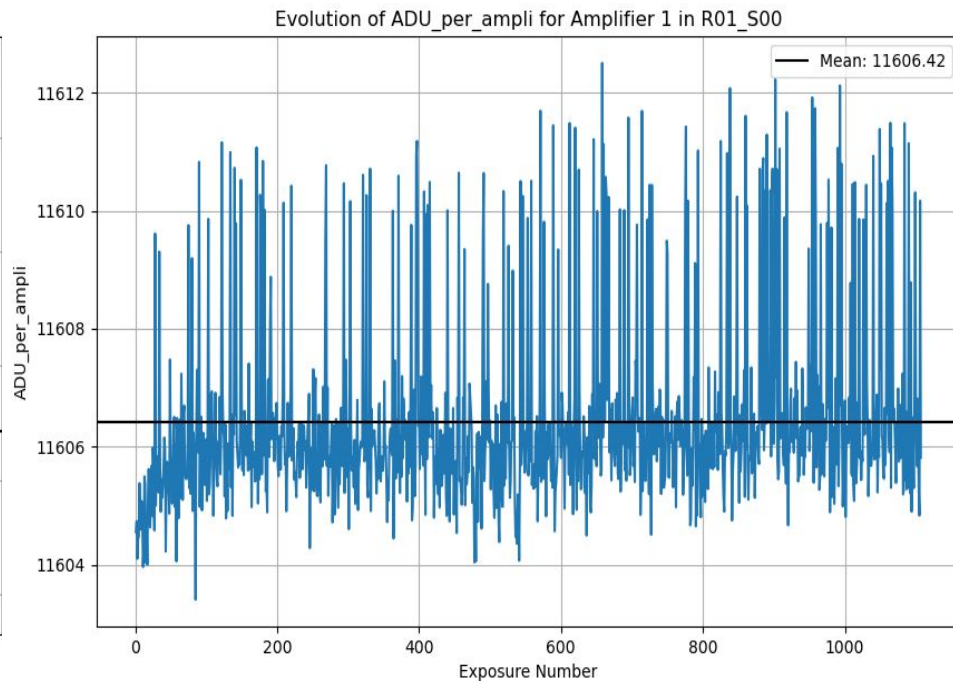


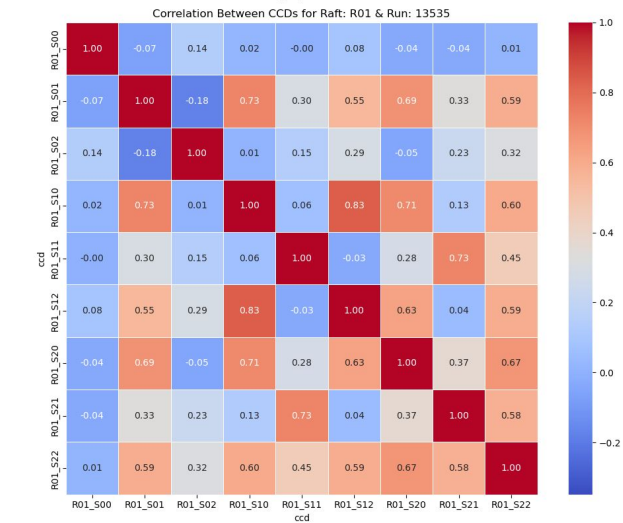
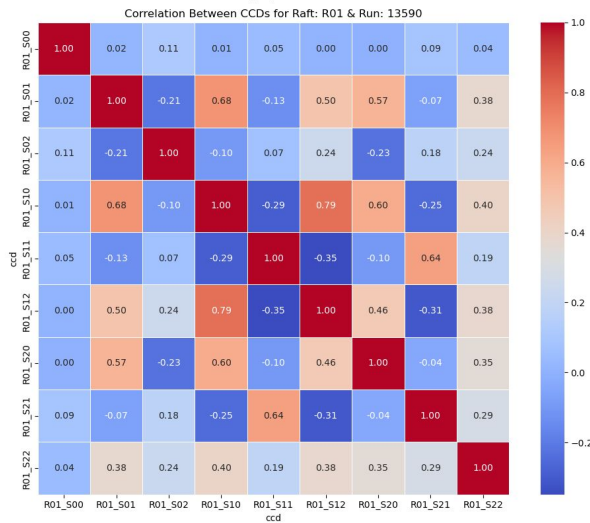
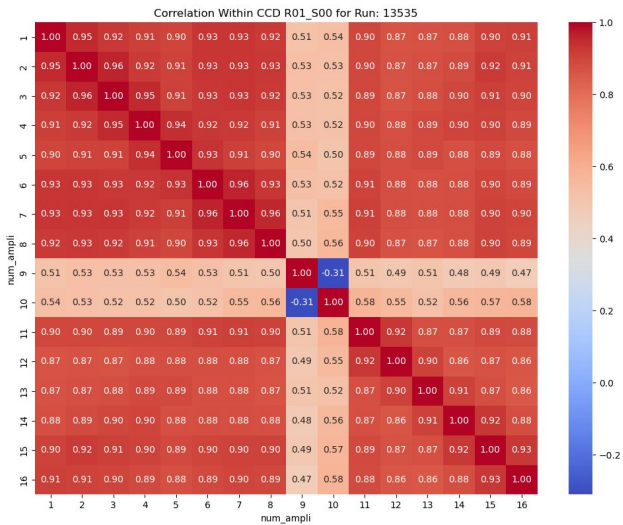
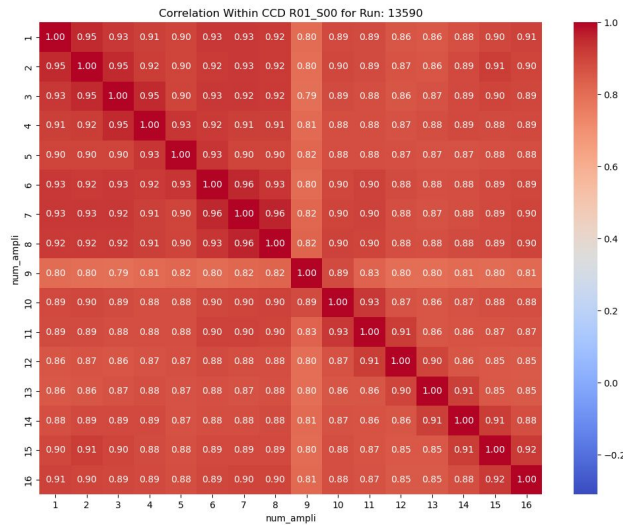
R01_S00

13590



13535





13590 on 13535

13590 appears more stable than **13535**

There are several points remaining to be studied

