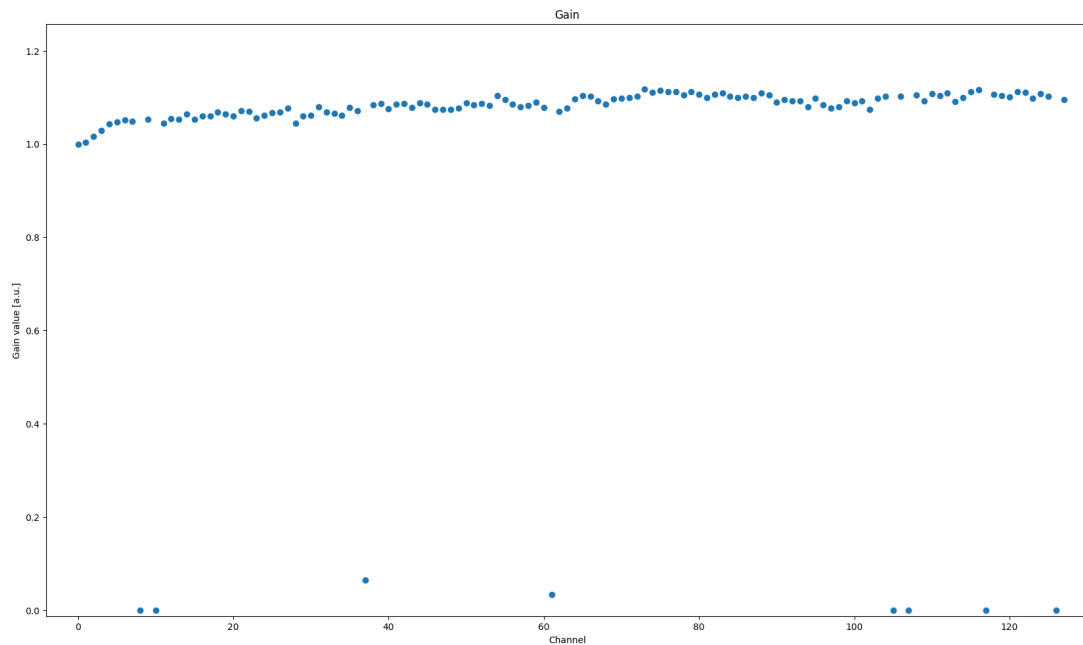
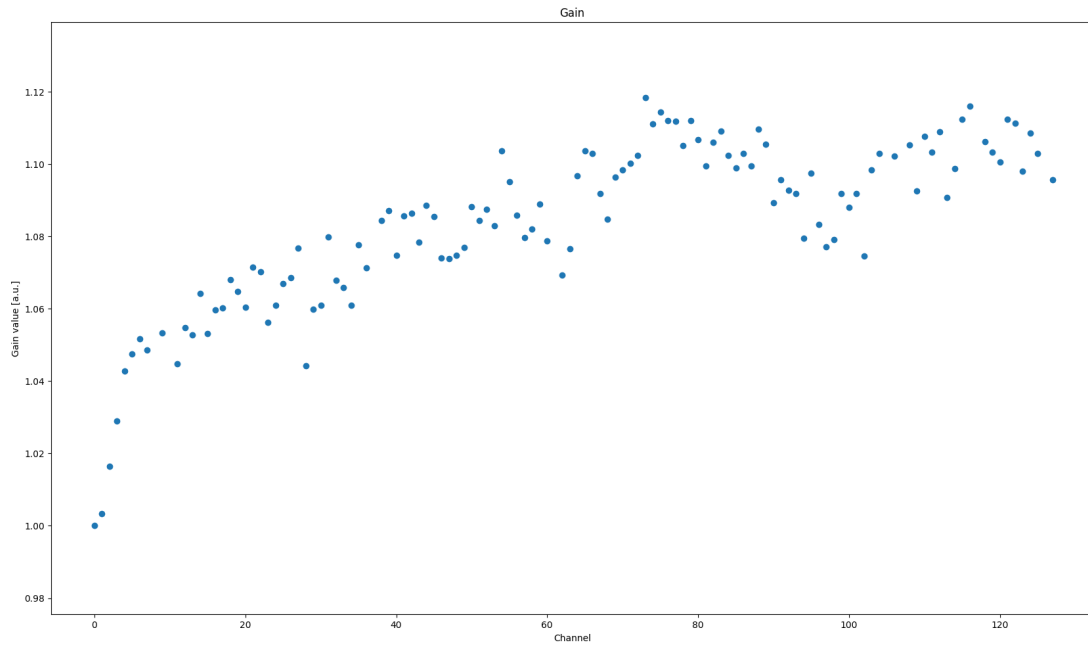


Injection board gain mapping

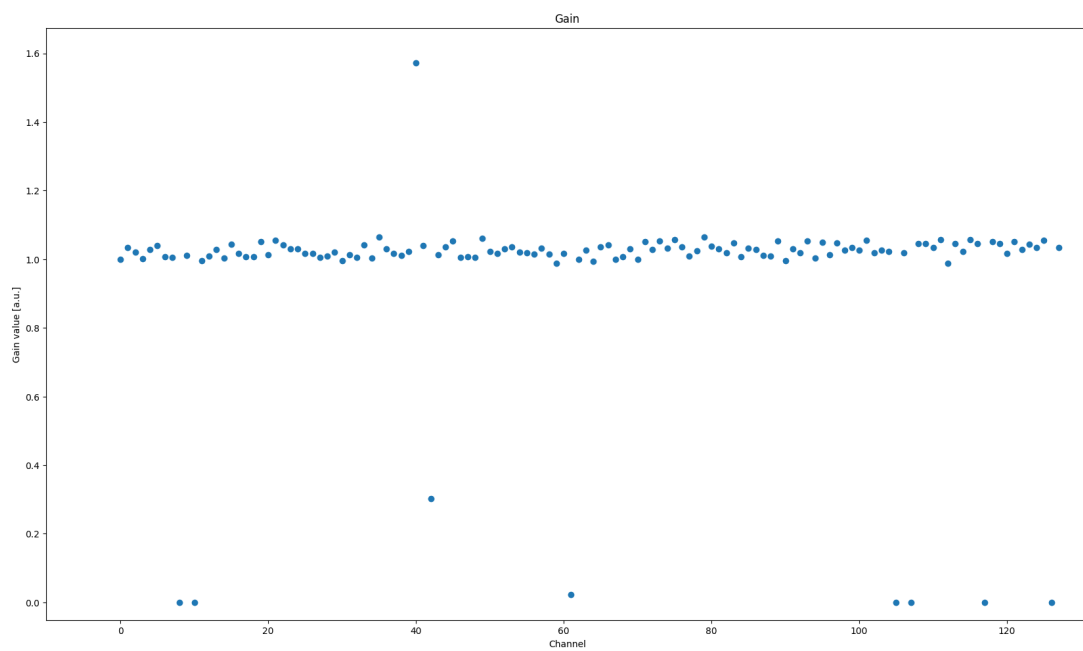
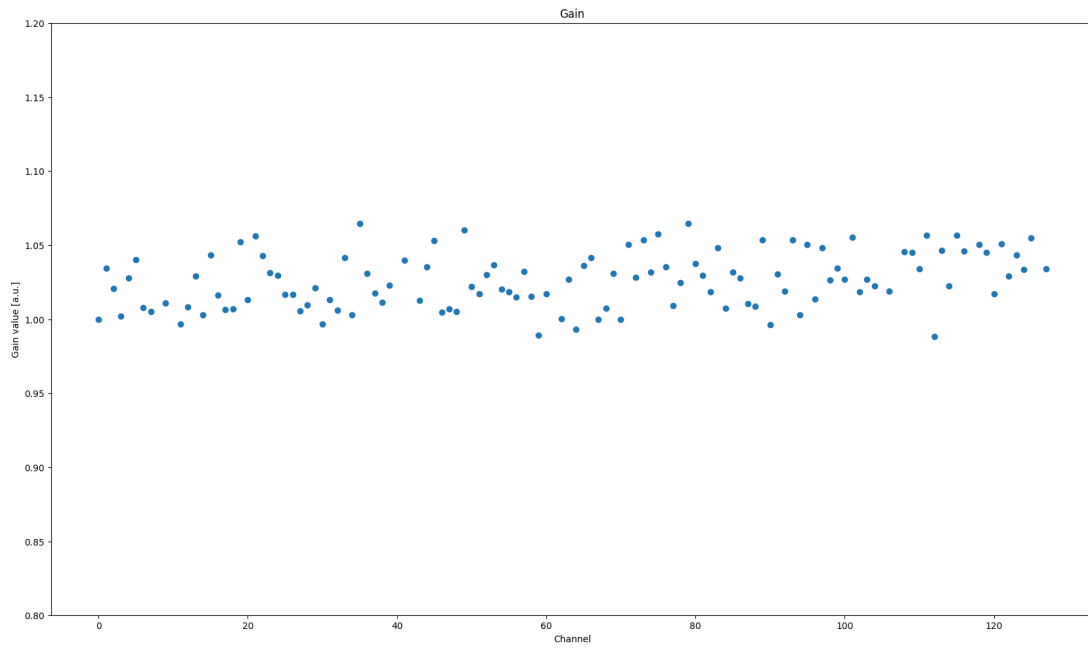
This measurement was carried out to obtain information about the differences between the channels of the injection plate.

Using a modified injection board with only one divider and a capacitor cell, the B1 board from FLAME was mapped. The generator was set to pulse mode with an amplitude of 100 mV, which corresponds to approximately 180 LSB at the ADC in this single-injection configuration.

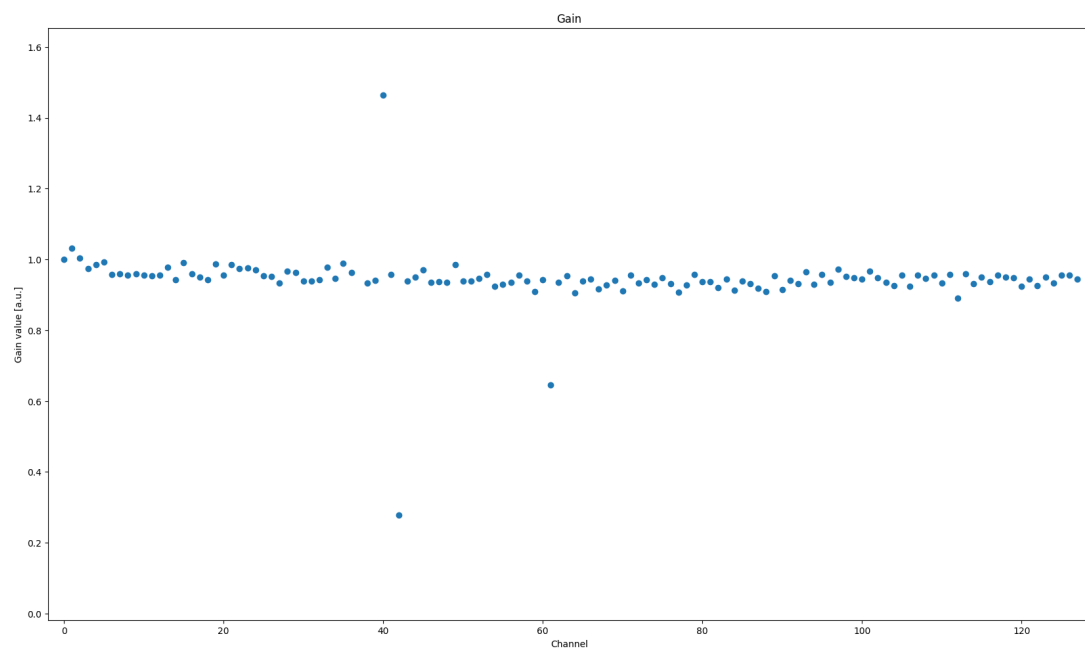
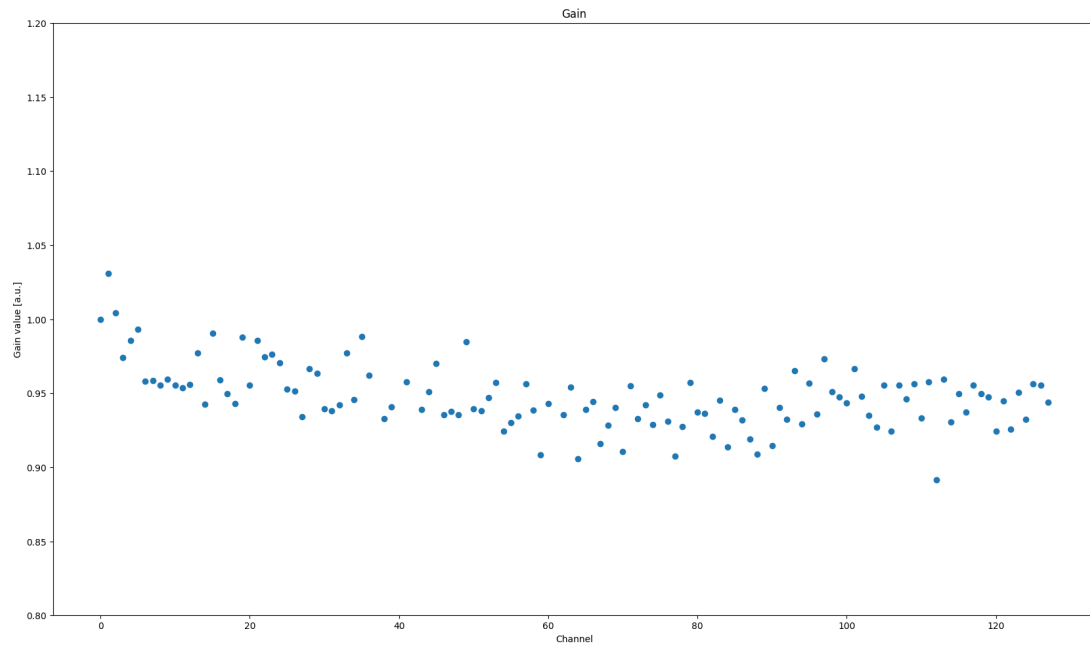
- Board B2 relative gain between channels (ch 0 as reference gain = 1)



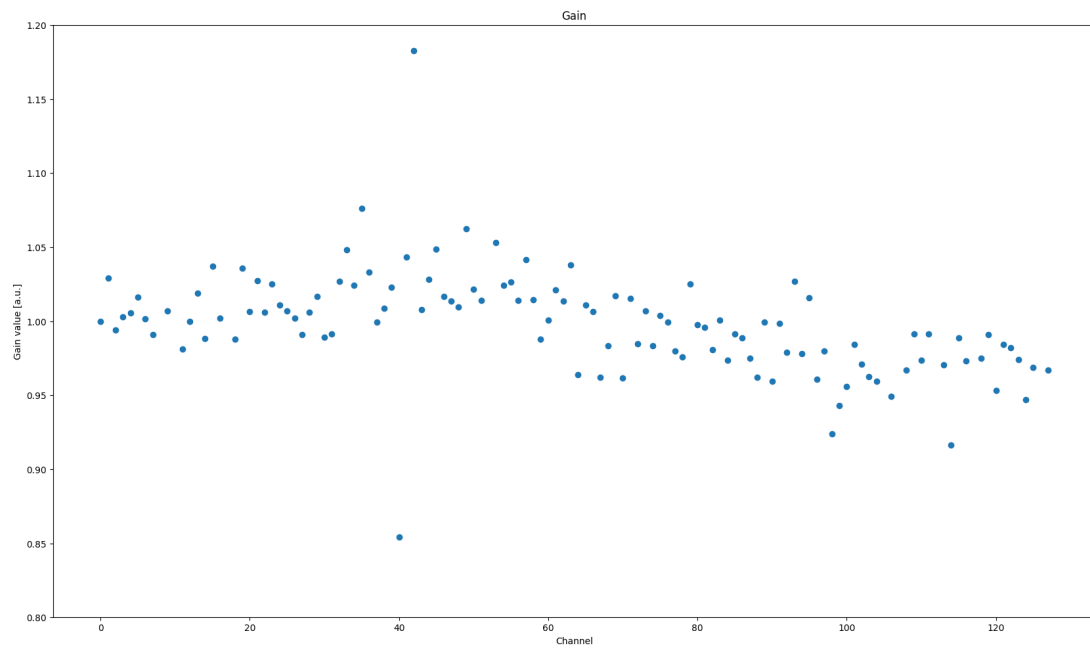
- Next step was repeat this measurements but using whole injection B2 board
 - Raw normalised gain measurment



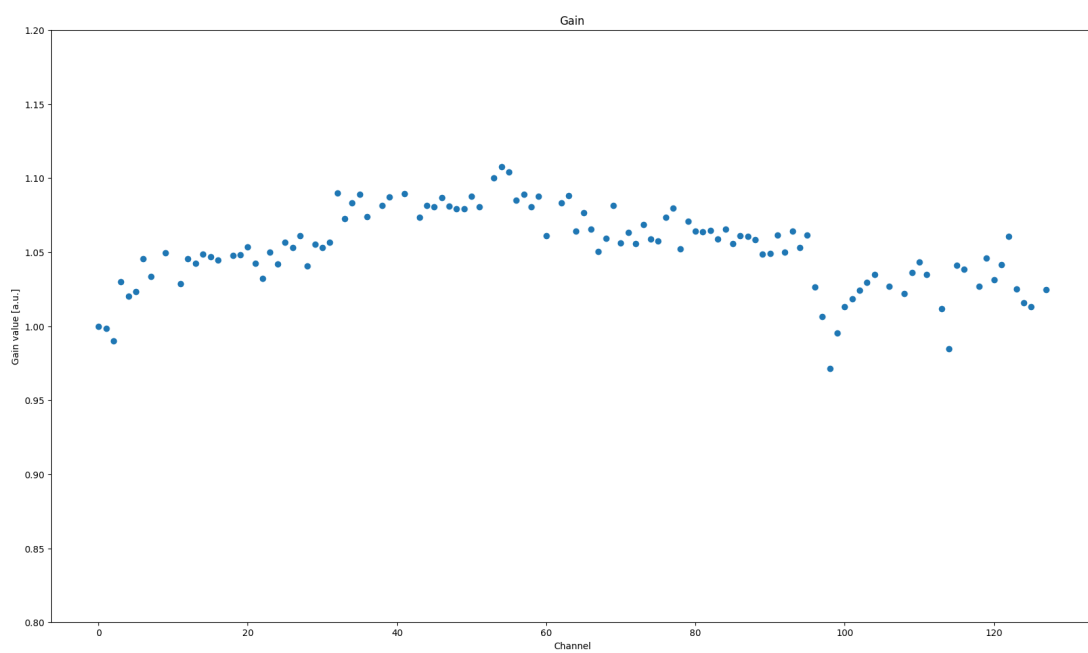
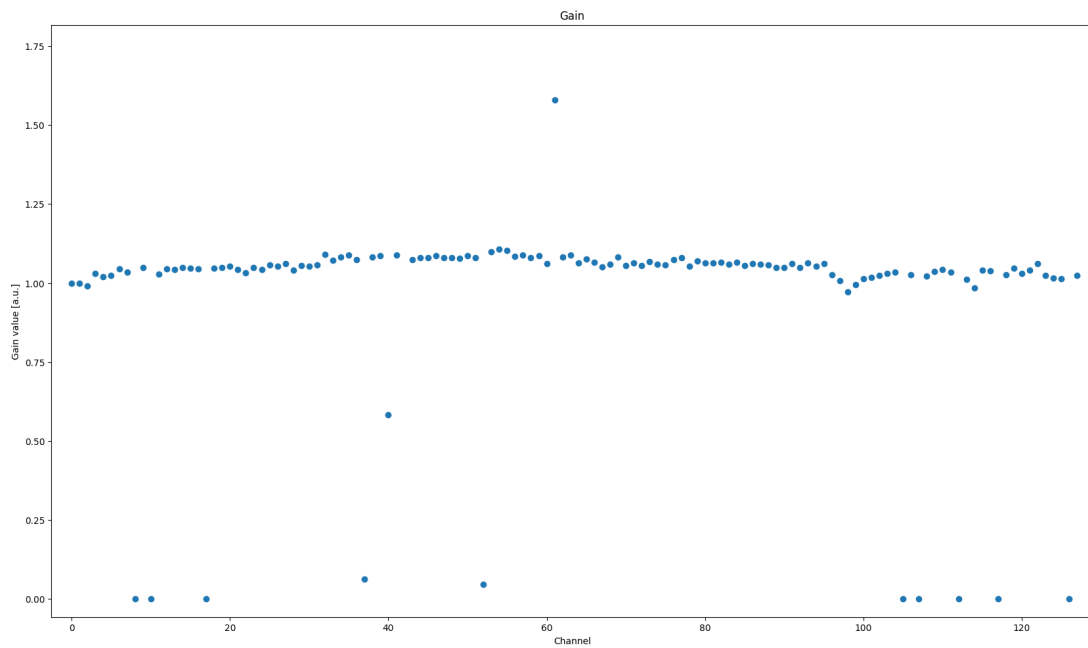
- By comparing the gain measurement from the entire injection board with a single injector, differences were obtained between the channels on the injection board



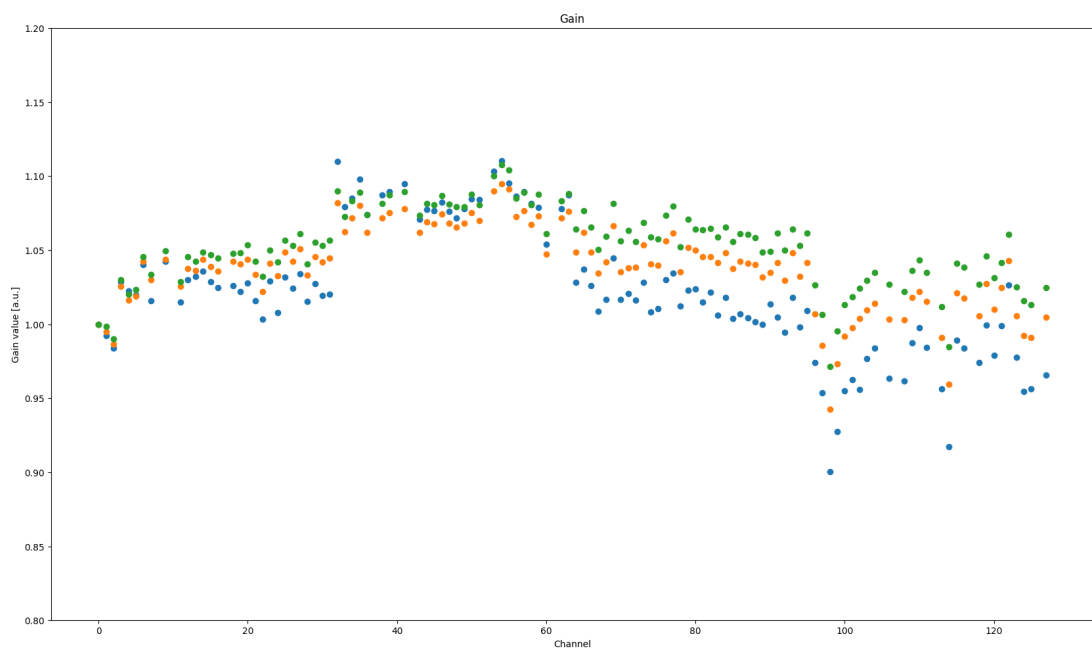
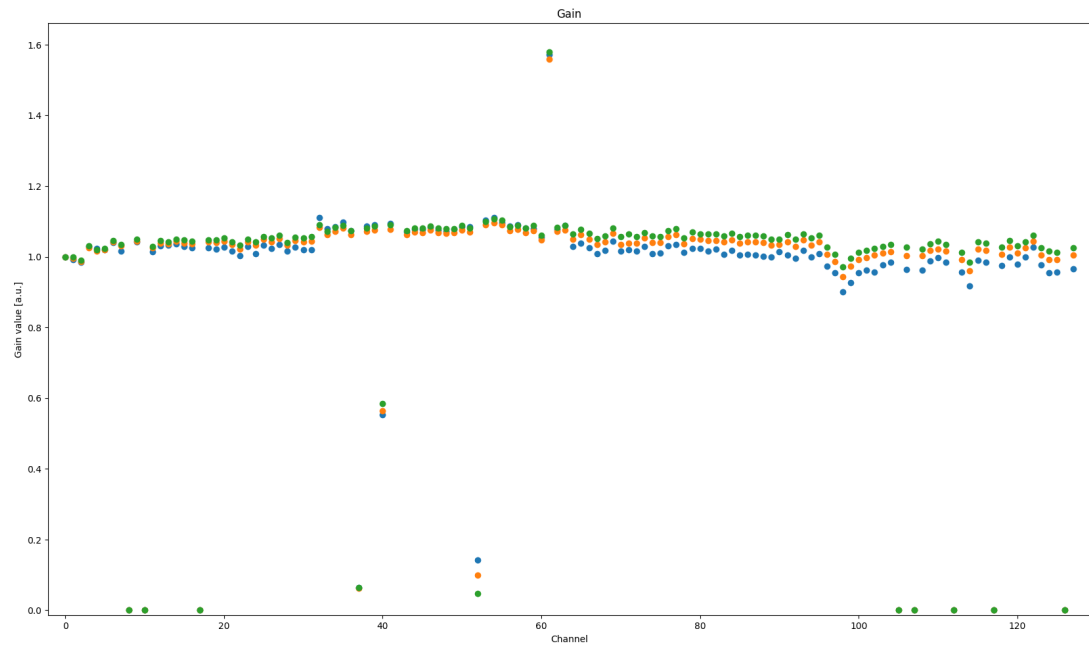
- Next step was repeat this measurements but using B1(testbeam) board
 - Raw normalised gain measurement 3000 mV



○ Normalised gain measurment after injection board correction



○ Normalised gain measurment (1100, 2200, 3000 mV)



○ Linear regression parameters from B1 board (generator amplitude: 1100, 2200, 3000 mV)

