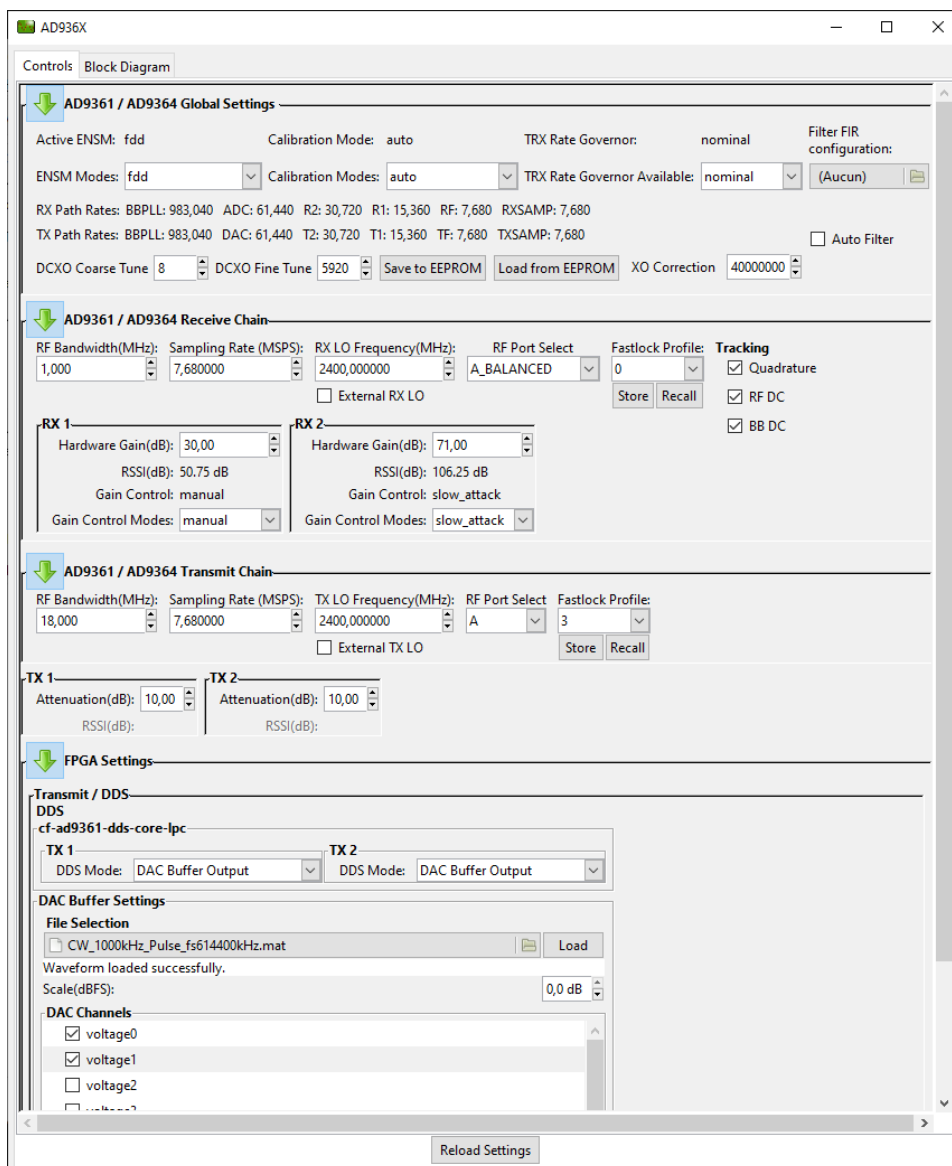


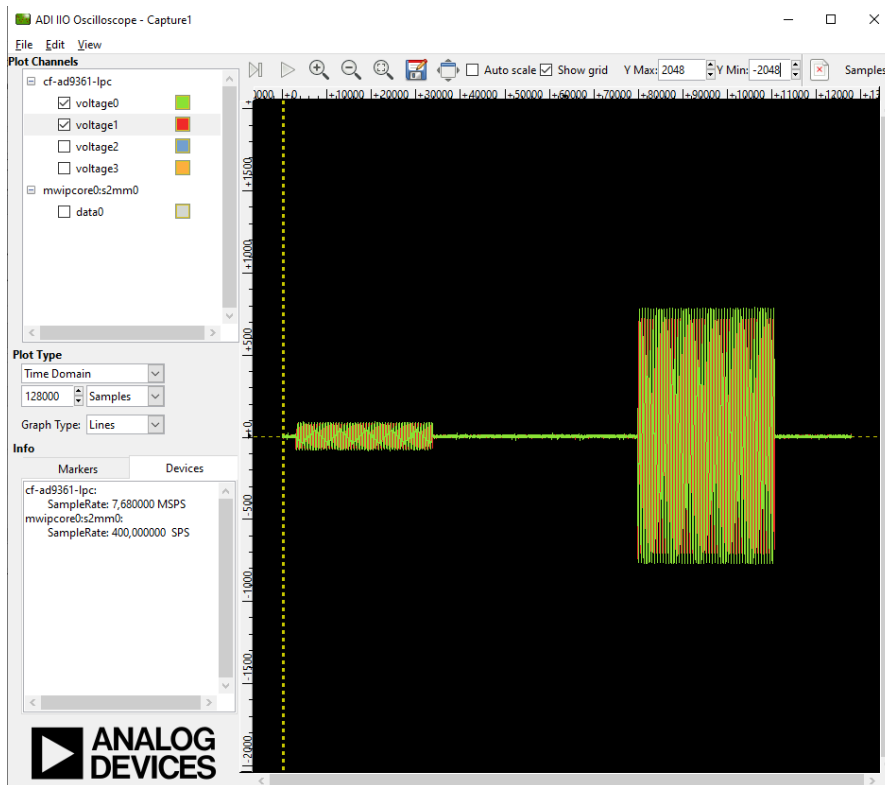
AGC Fast Attack & Filter FIR interaction ?

1. Reference :

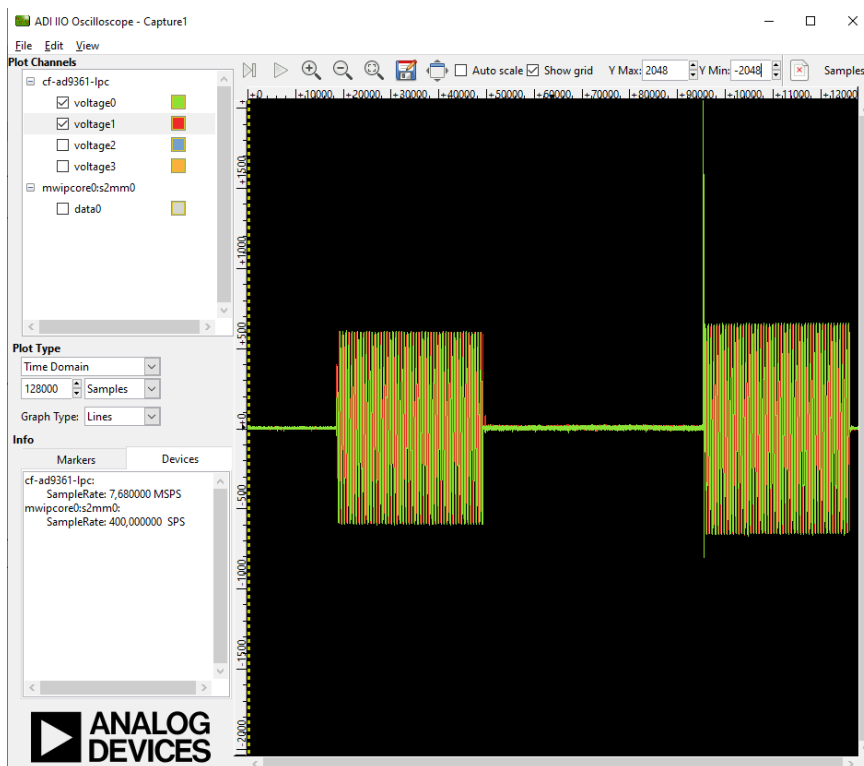
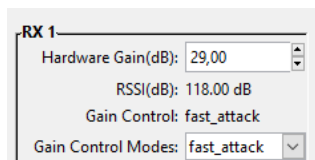
- $F_s = 7.68\text{MS/s}$
- Manual gain
- No Filter FIR selected
- Loopback Tx1A > RX1A (through a 30 dB attenuator)



Signal is as expected: a short pulse followed by a larger one.

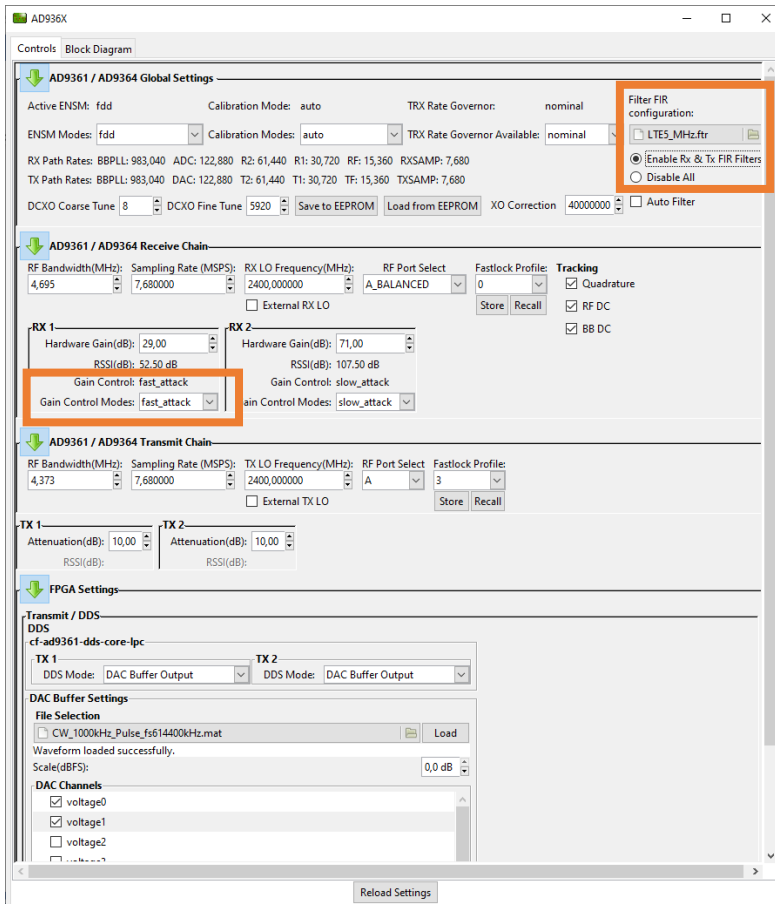


When turning AGC Fast Attack ON, we clearly see the effect of AGC. This is working as expected!



2. Activate Filter FIR:

- Same as above, except we use the LTE_5MHz filter that ships with iio oscilloscope
- $F_s = 7.68\text{MS/s}$
- Enable RX & TX FIR Filter
- Loopback Tx1A > RX1A (through a 30dB attenuator)



AGC Fast Attack has no effect anymore!

