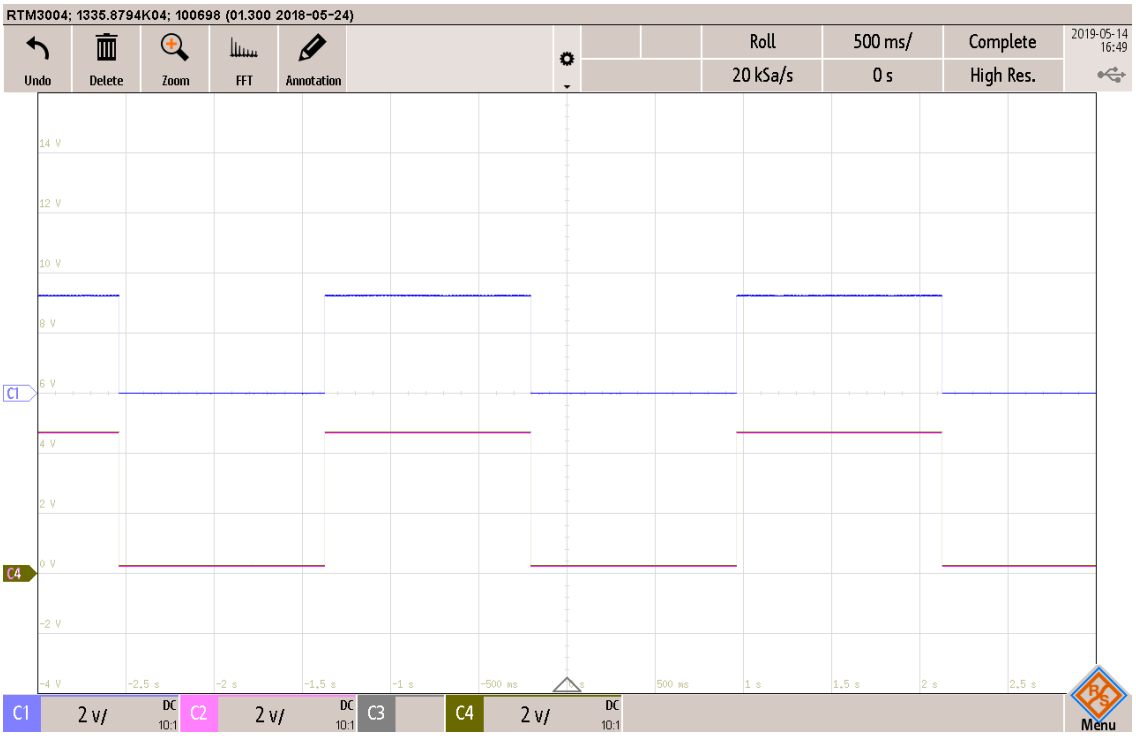
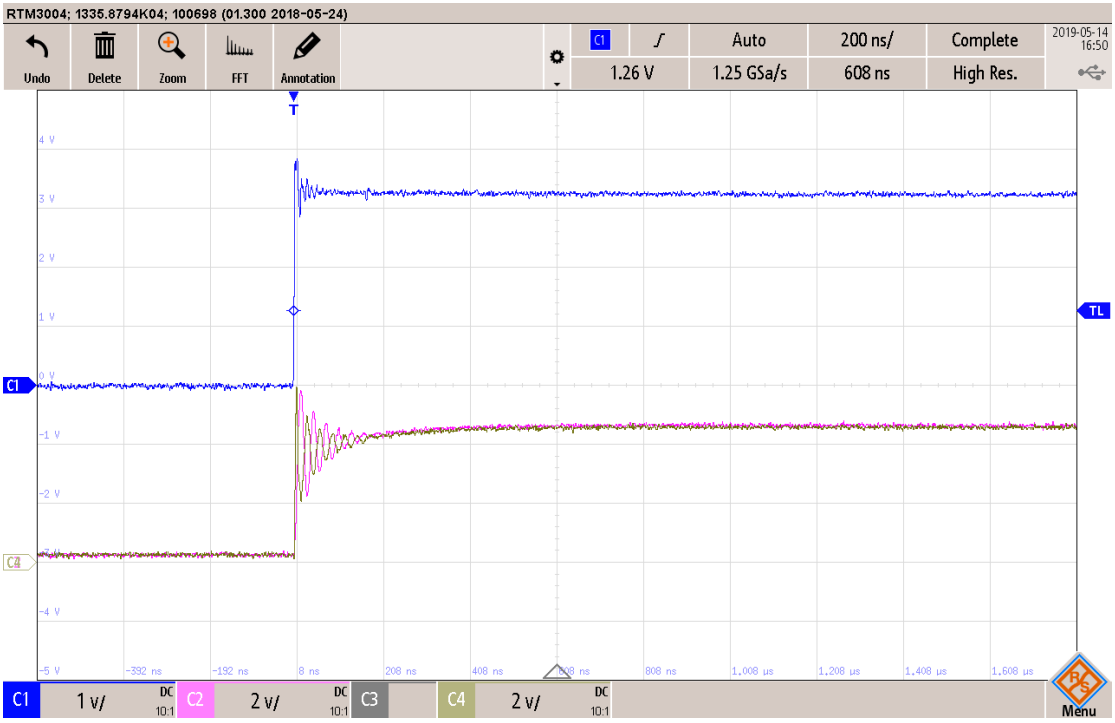
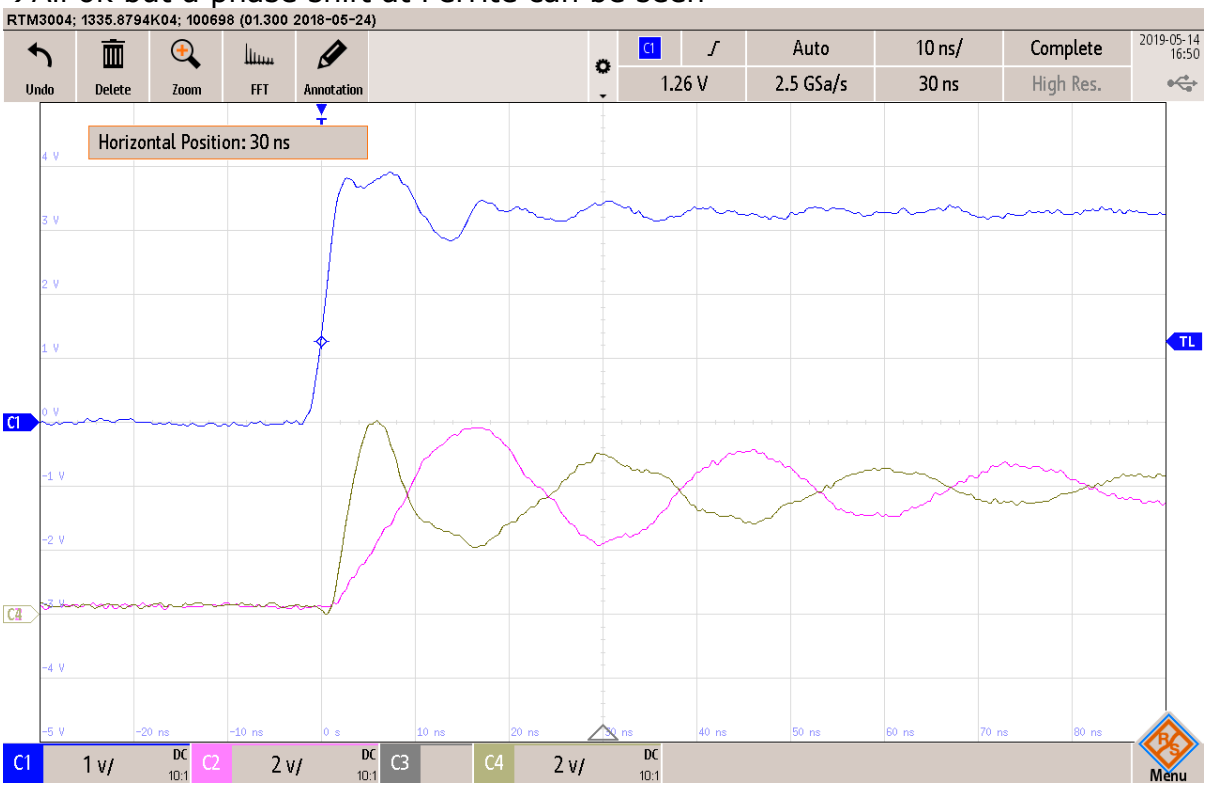
Measurement 1: CH1: MCU; CH4: after TXB; CH2: after Ferrite
Open connector
→All ok



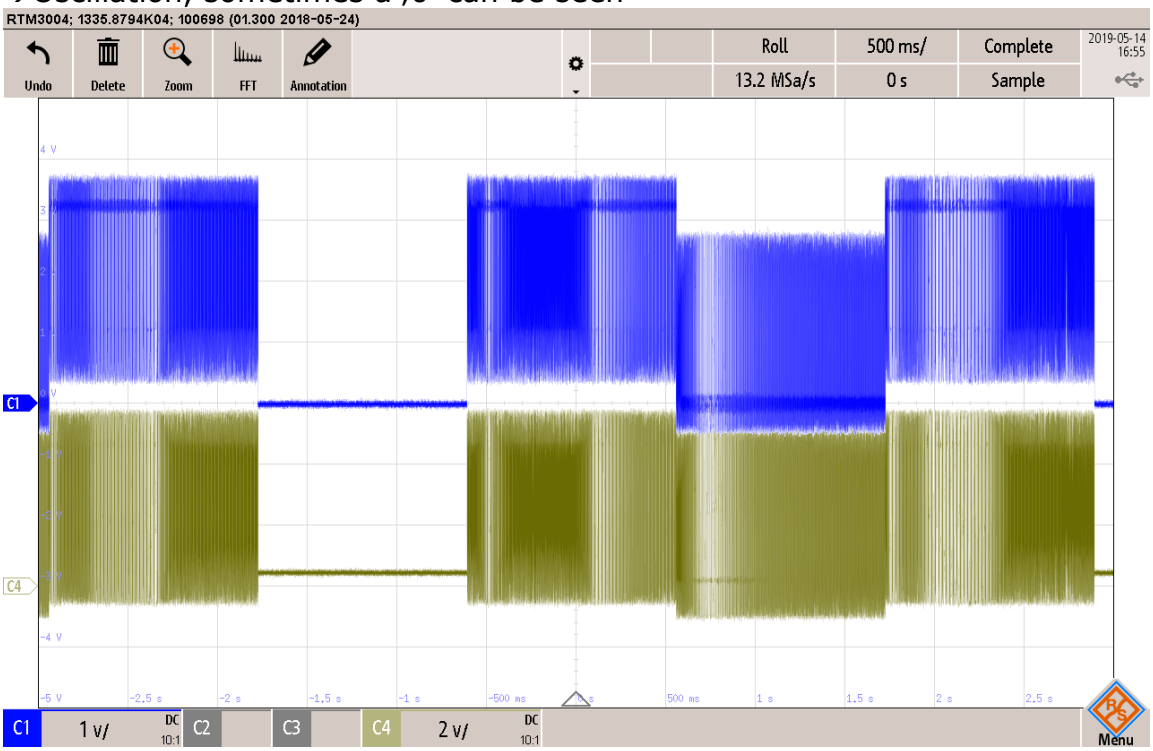
Measurement 2: CH1: MCU; CH4: after TXB; CH2: after Ferrite
Open connector, zoom of the rising edge at CH1 (MCU)
→All ok



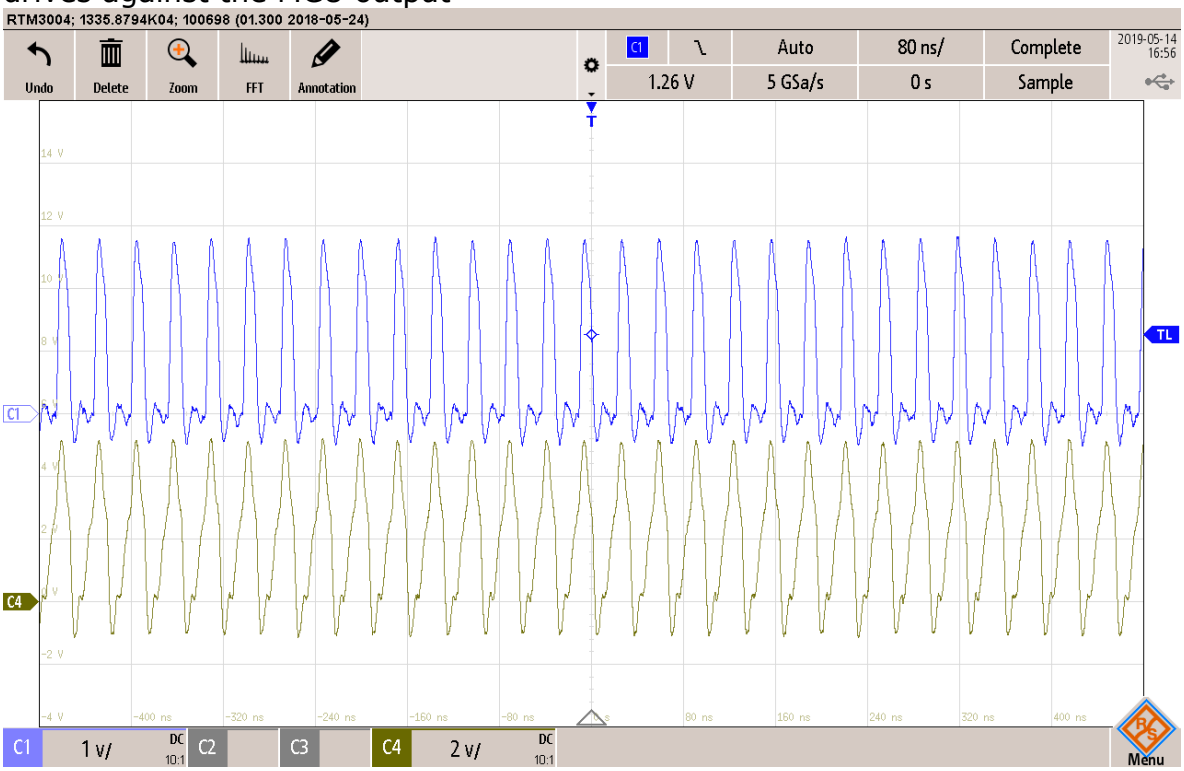
Measurement 3: CH1: MCU; CH4: after TXB; CH2: after Ferrite
Open connector, stronger zoom in of the rising edge at CH1 (MCU)
→All ok but a phase shift at Ferrite can be seen



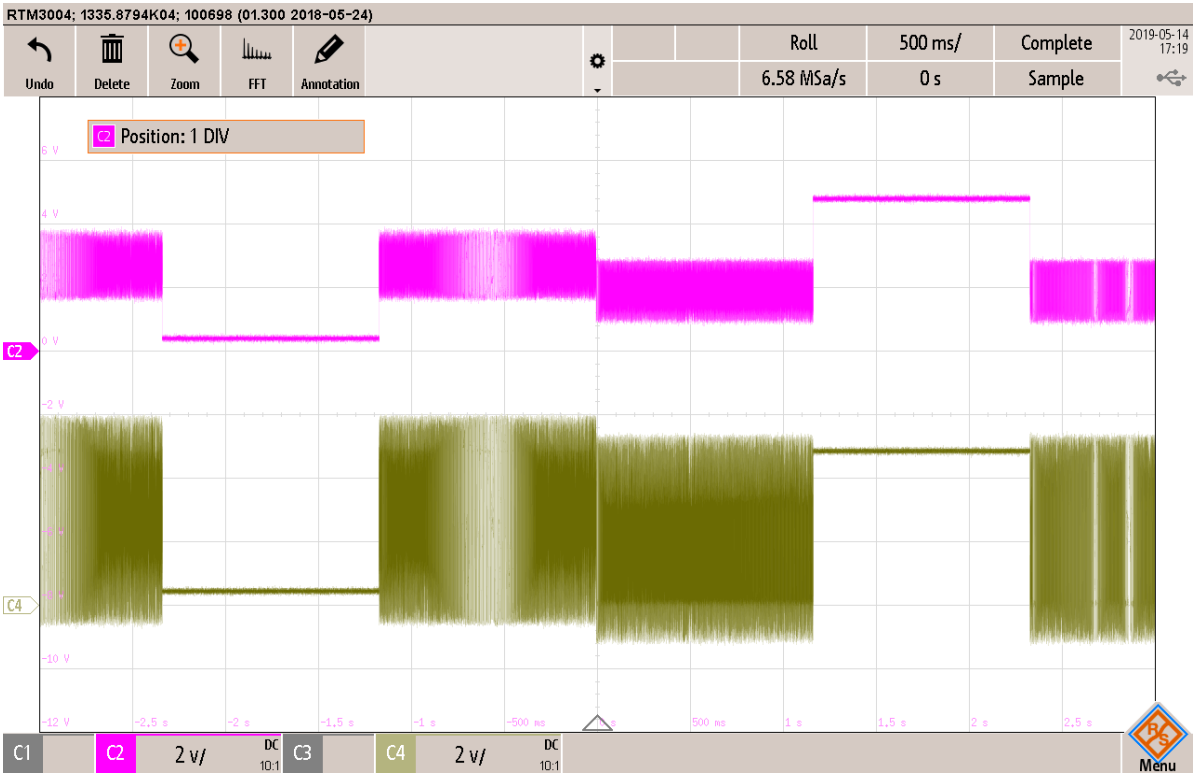
Measurement 4: CH1: MCU; CH4: after TXB
The connector pin is connected to an input pin of a 74LVC
→Oscillation, sometimes a ‚0' can be seen



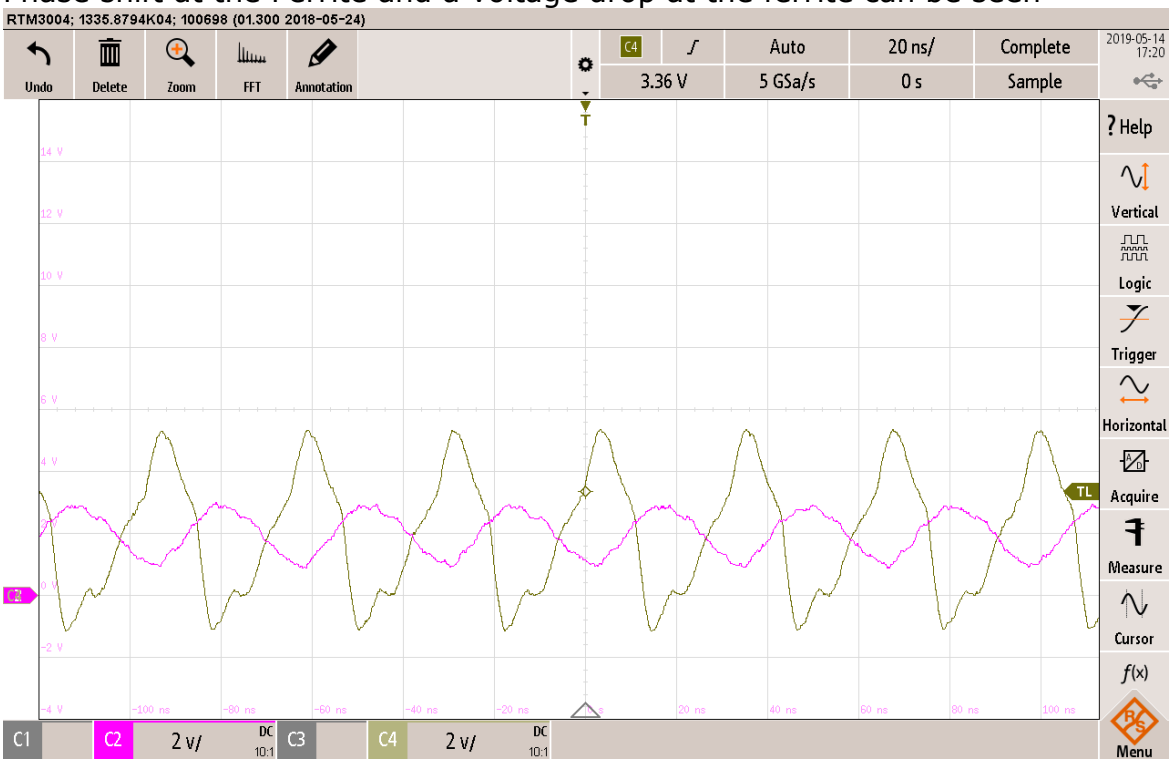
Measurement 5: CH1: MCU; CH4: after TXB
The connector pin is connected to an input pin of a 74LVC, zoom in, A&B side of the TXB →Oscillation. To me, it looks like the output is put back in to the MCU side, so that the TXB drives against the MCU output



Measurement 6: CH4: after TXB; CH2: after Ferrite
The connector pin is connected to an input pin of a 74LVC, zoom in, left and right of the Ferrite Sometimes a ‚0' or a ‚1' can be seen. It is the same measurement setup like in Measurement 4, but this time focused at the Ferrite



Measurement 7: CH4: after TXB; CH2: after Ferrite
The connector pin is connected to an input pin of a 74LVC, zoom in, left and right of the Ferrite
Zoom of measurement 6
Phase shift at the Ferrite and a voltage drop at the ferrite can be seen



Measurement 8: CH1: MCU; CH4: after TXB
The connector pin is connected to an input pin of a 74LVC, zoom in, A&B side of the TXB
Bridged Ferrite bead with a wire

➔ Ok, it works again fine. No restart, just bridged the ferrite bead