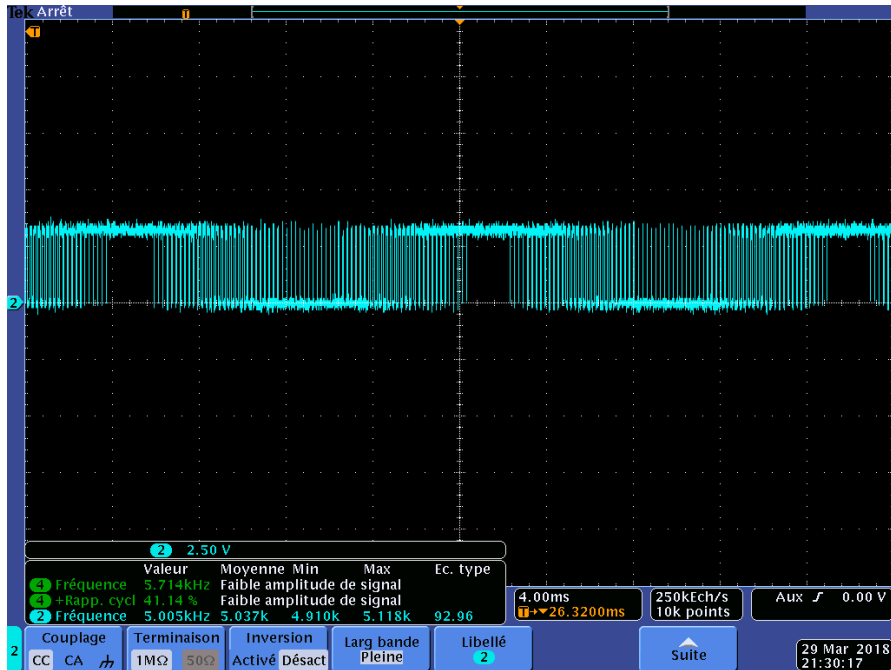Hi,

Our goal is to control a single-phase converter using the ePWM of DSPF28335 with CCSV7 and Matlab 2017b. We are starting with 2 basic test: 1) by injecting only sine signal into the ePWM. At the beginning, the output signal is not giving the attending result and the high frequency switching disappears after 2 or three hours as shown in Figure 1 and 2 respectively;
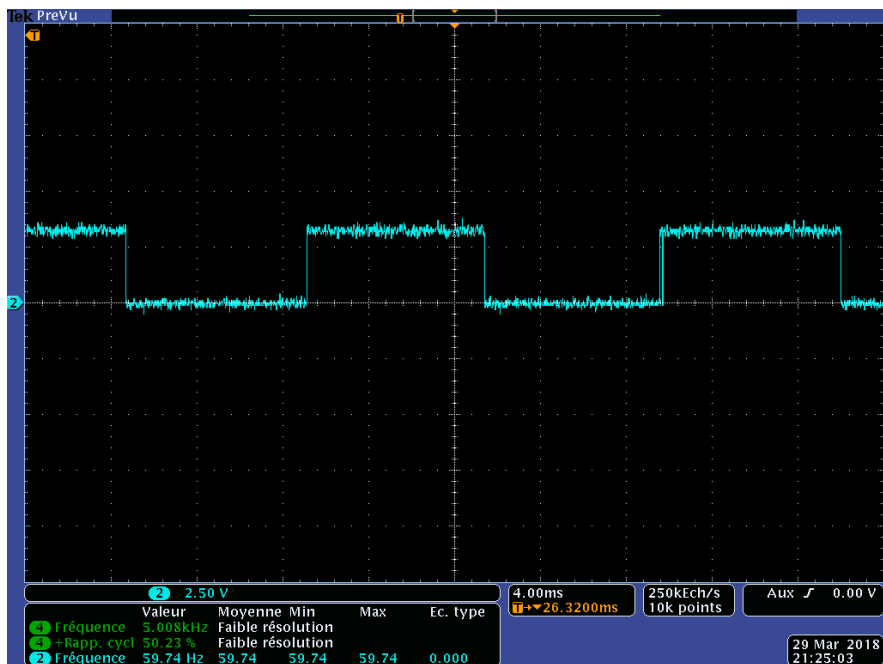

Figur1

Figure2

2) Test by generating a control signal using a percentage including in the ePWM (CMPA=7500 which corresponds to duty cycle of 50 % and switching frequency fs = 5kHz). The output signal remains constant even after 1 day of operation. See the Figure 3 et 4

Figure 3
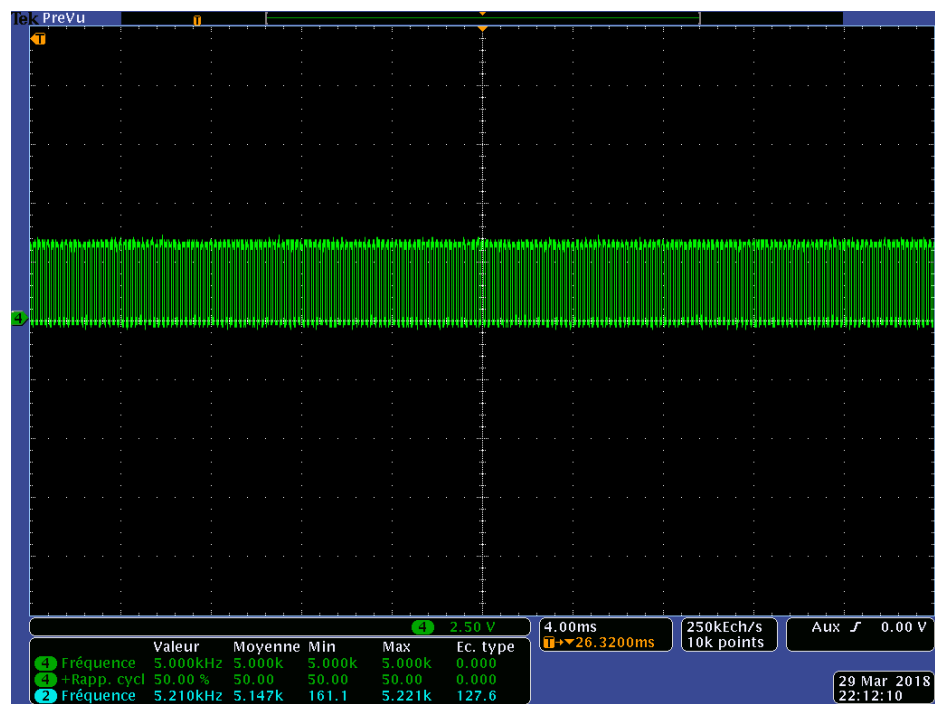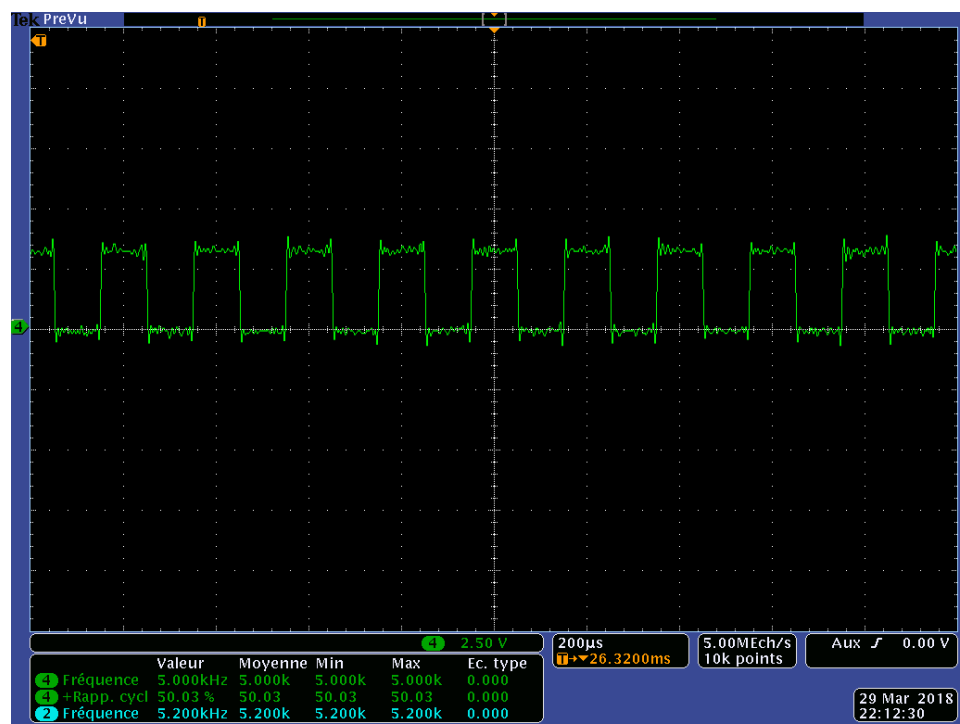

Figure 4