Date: 26.04.2019

Attendees: Furkan Karakaya

**Location:** Electrical Machines Laboratory

Target: V1.3 Gate Driver Board (#1)

Test type: Inverter test with RL load

## Aims before the test:

1. To obtain current waveforms with Rogowski Coil

**Conditions:** 22 Ohm Ron, 2 Ohm Roff. 0-300V VDC. RL Load: Five different stages. 10kHz-40kHz fsw. 0.9 power factor. Sinusoidal PWM with 0.9 modulation index.



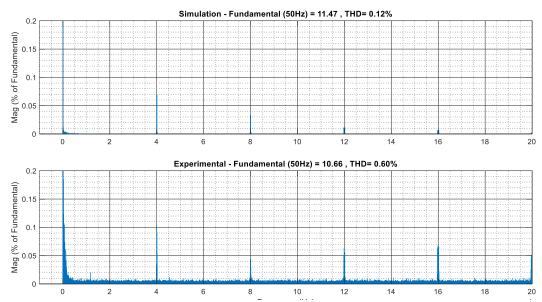


## Steps:

- 1. The phase current is measured with rogowski coil and current probe.
- **2.** The rogowski results are compared with simulation.

## **Results:**

i) 40 kHz switching frequency without any filtering in oscilloscope



ii) 10 kHz switching frequency without any filtering in oscilloscope

