

# Digital Trigger, Status

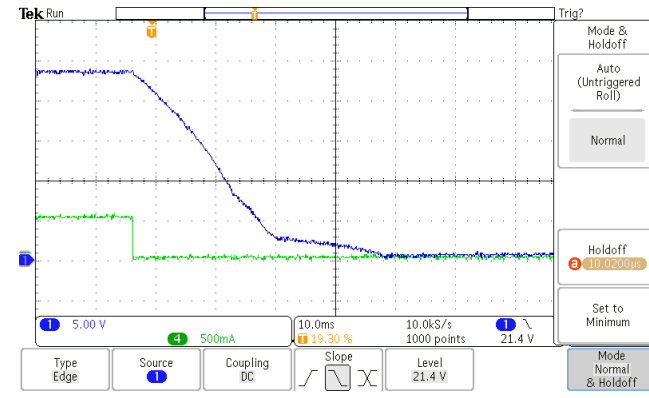
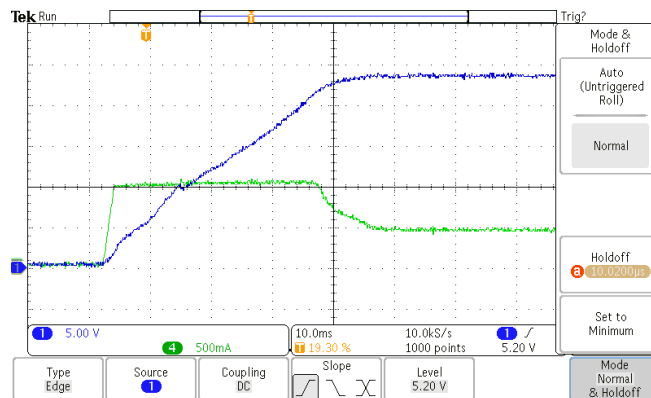
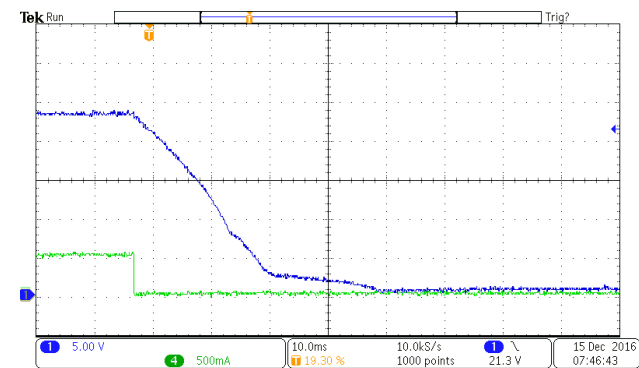
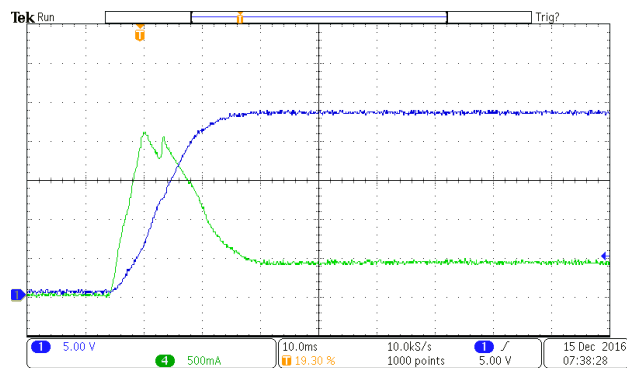
December 2016

K.-H. Sulanke

DESY

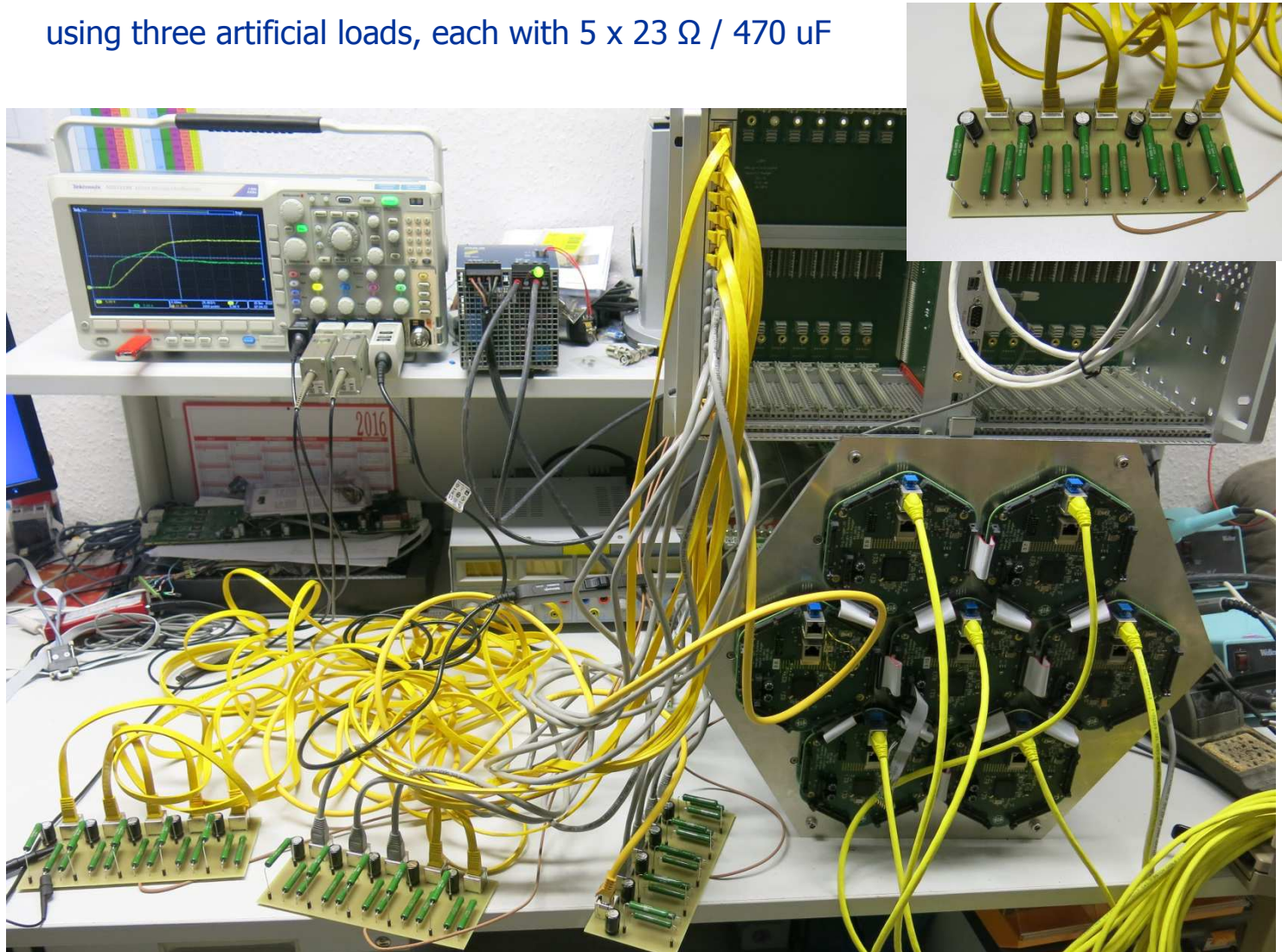
# FEB Power Switching

- current and voltage ramp, measured at the NECTAR FEB2 V3, (w/o PMTs)
  - 3m flat Cat.6a cable
  - power on/off with current limit set to 2A (top) and 1A (bottom)
  - voltage (blue) 5V/div, current (green) with 500mA/div



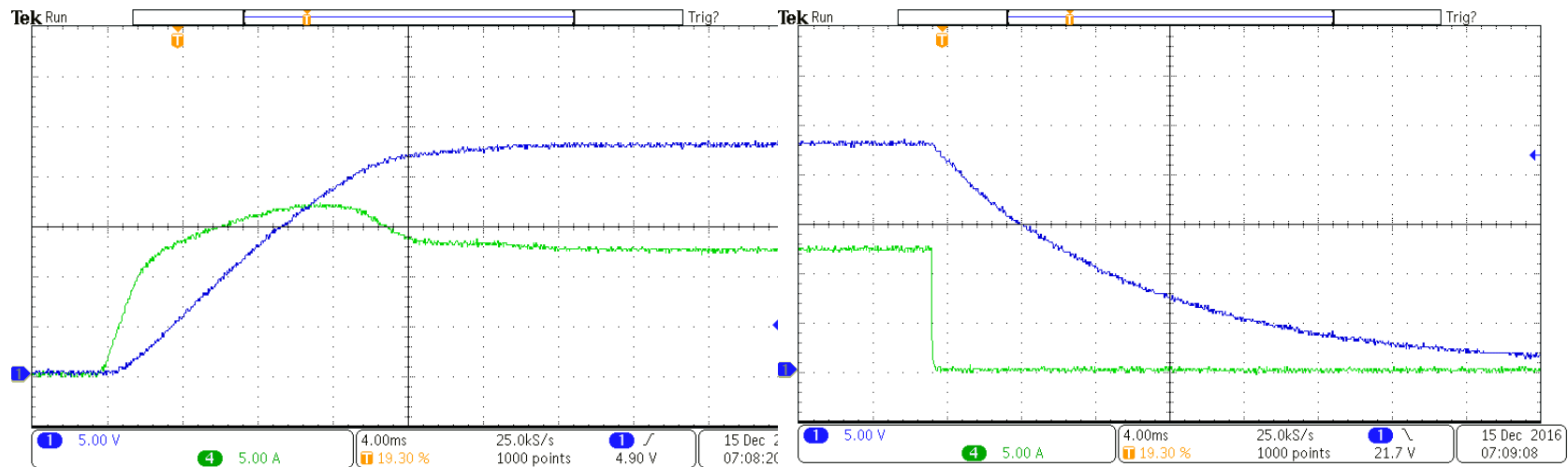
# Artificial Load, Power Switching, Test Setup

- using three artificial loads, each with  $5 \times 23 \Omega$  / 470  $\mu\text{F}$



# Artificial Load, Power Switching, cont.

- measured current and voltage ramp with artificial load, 15 x 23  $\Omega$  / 470  $\mu$ F
  - simultaneous switching of all 15 CDTB ports, each current limit = 2A
  - voltage (blue) 5V/div, current (green) with 5A /div





# DTB3, Status

- PCB routing done (delayed by CAD software update )
- some length tuning still needed, design ready end of December

