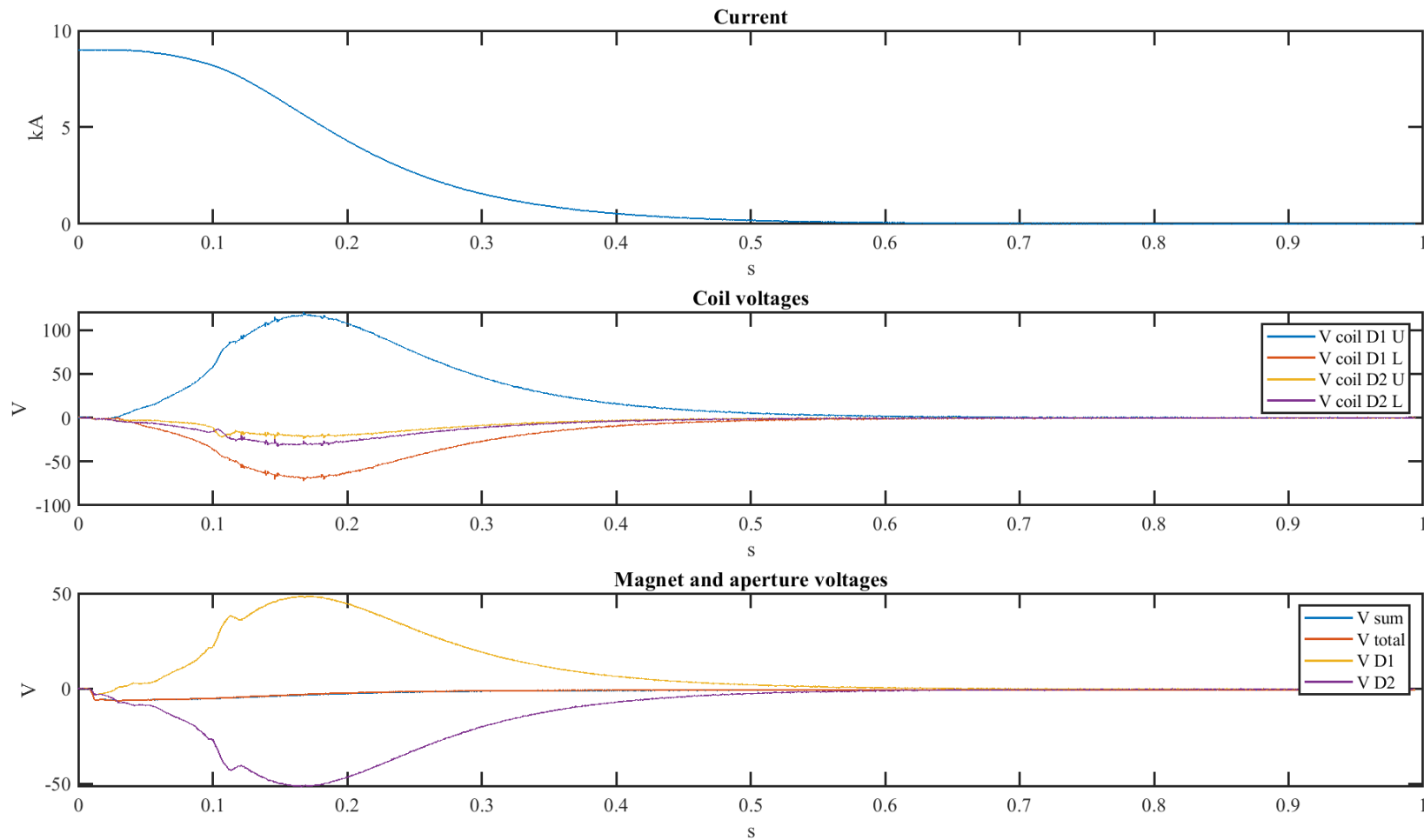


# Wavelet analysis

Signals from quench antennas

Previously tested magnets

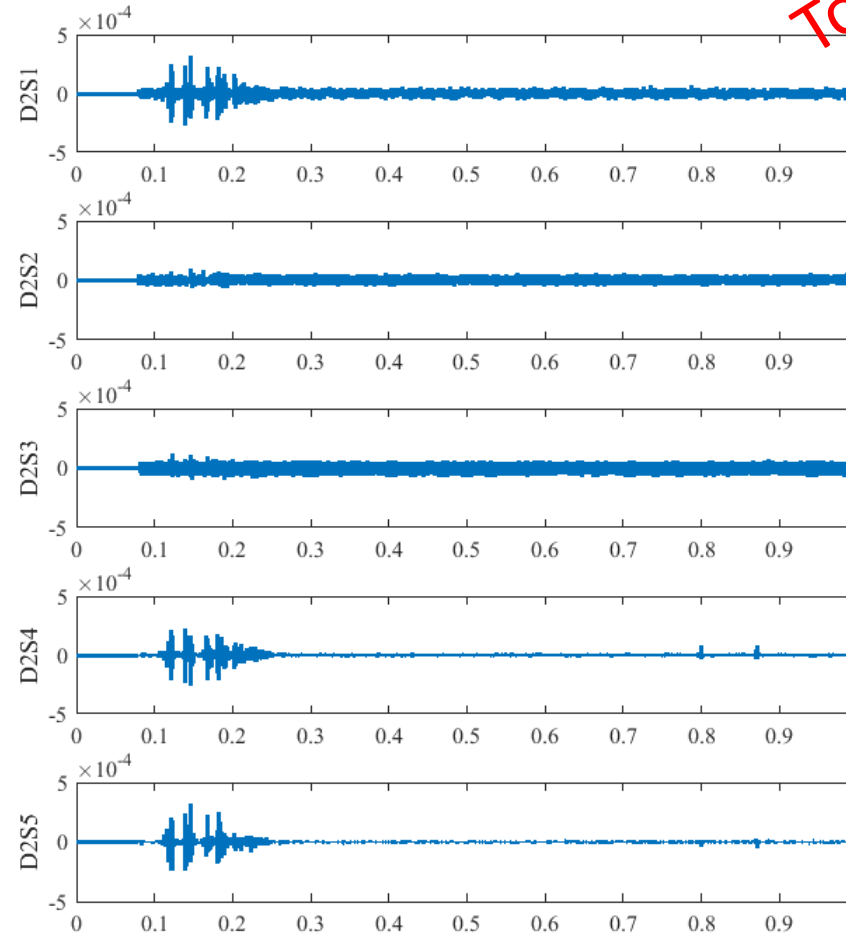
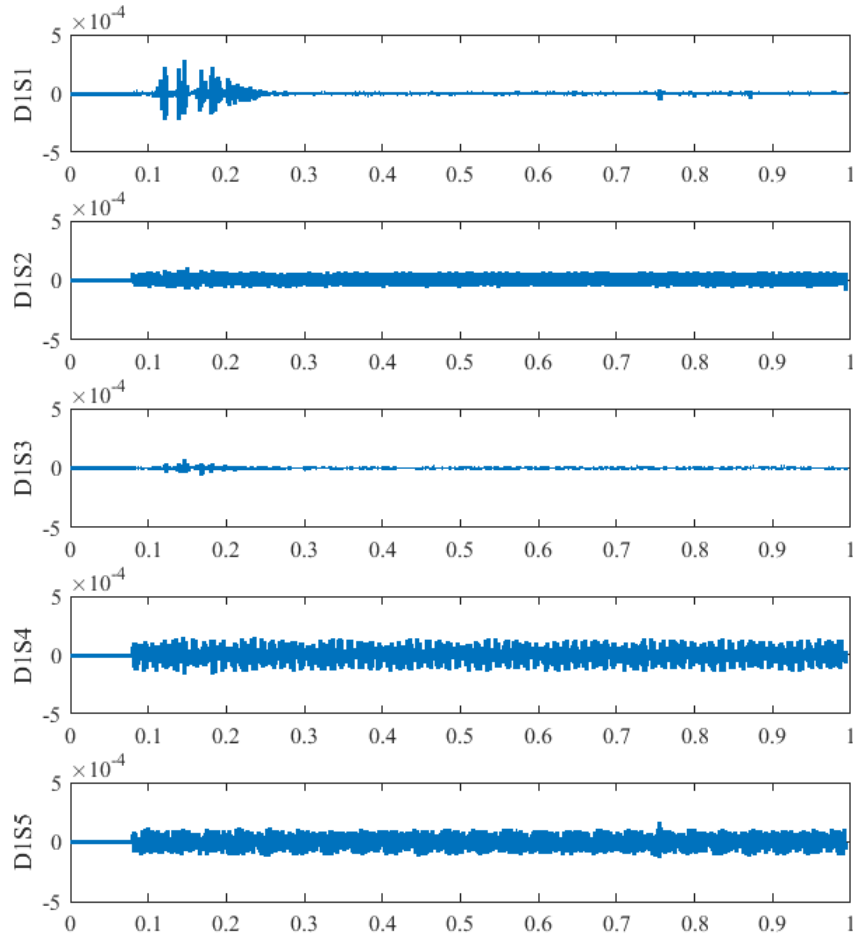
# Quench antennas



# Quench antennas

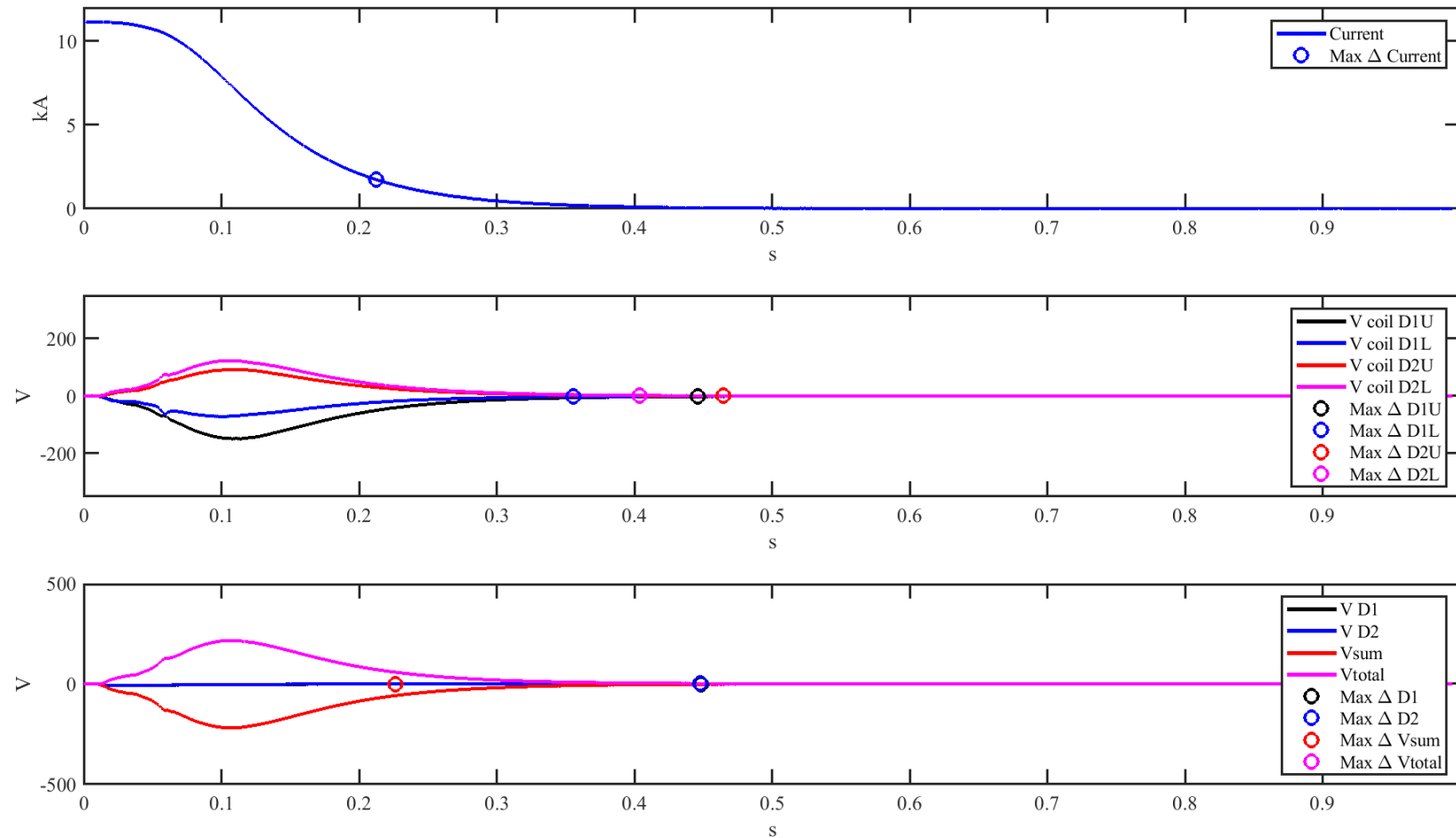
s1	s2	s3	s4	s5
CFB				MRB

*To be checked!*

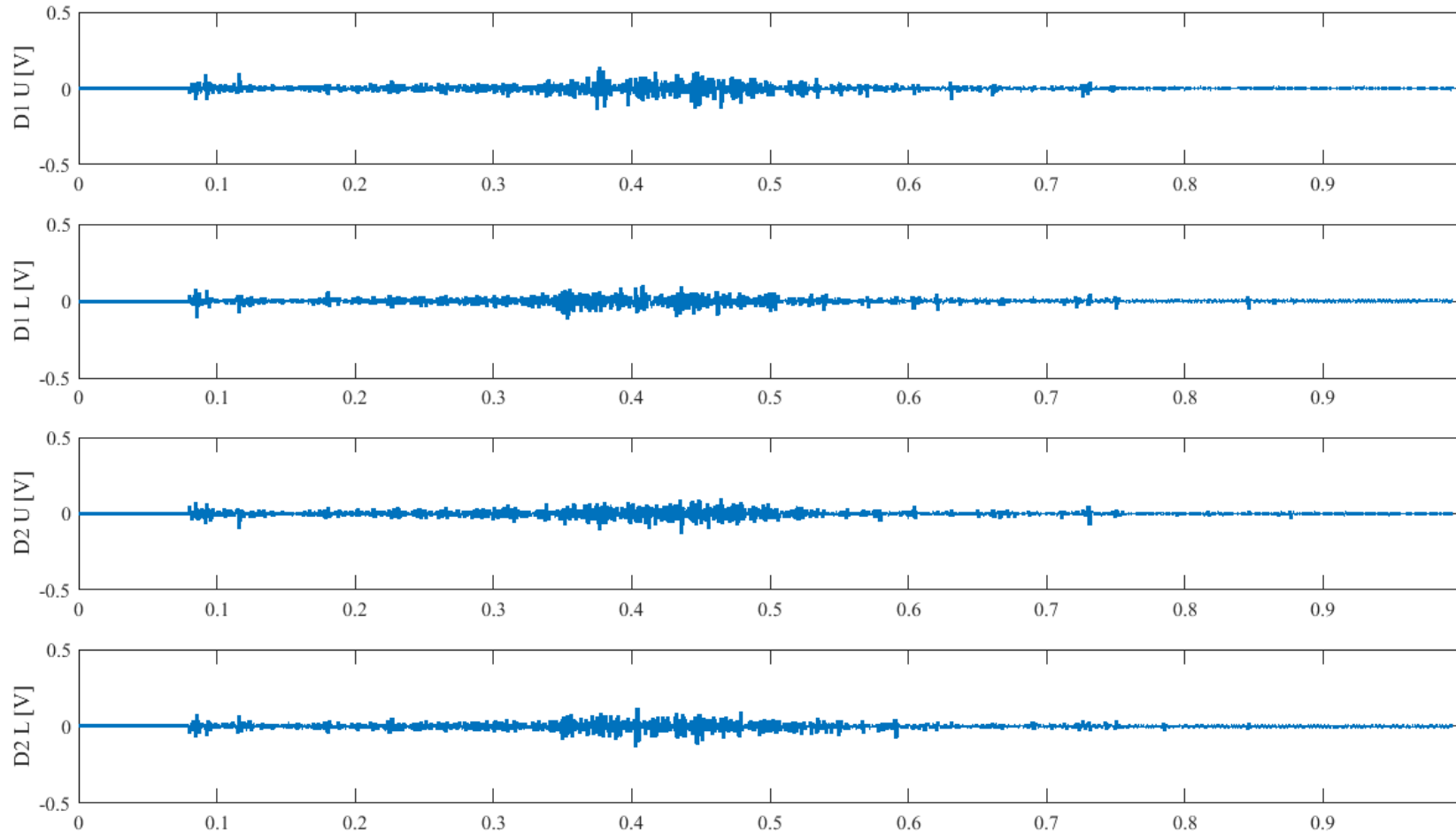


- Discharge at 9 kA
- Same post-processing as coil voltages
- Some segments show noise with similar pattern as on coil voltages
- Some signals seem to be corrupted

# Previously tested magnets: MBHB-002

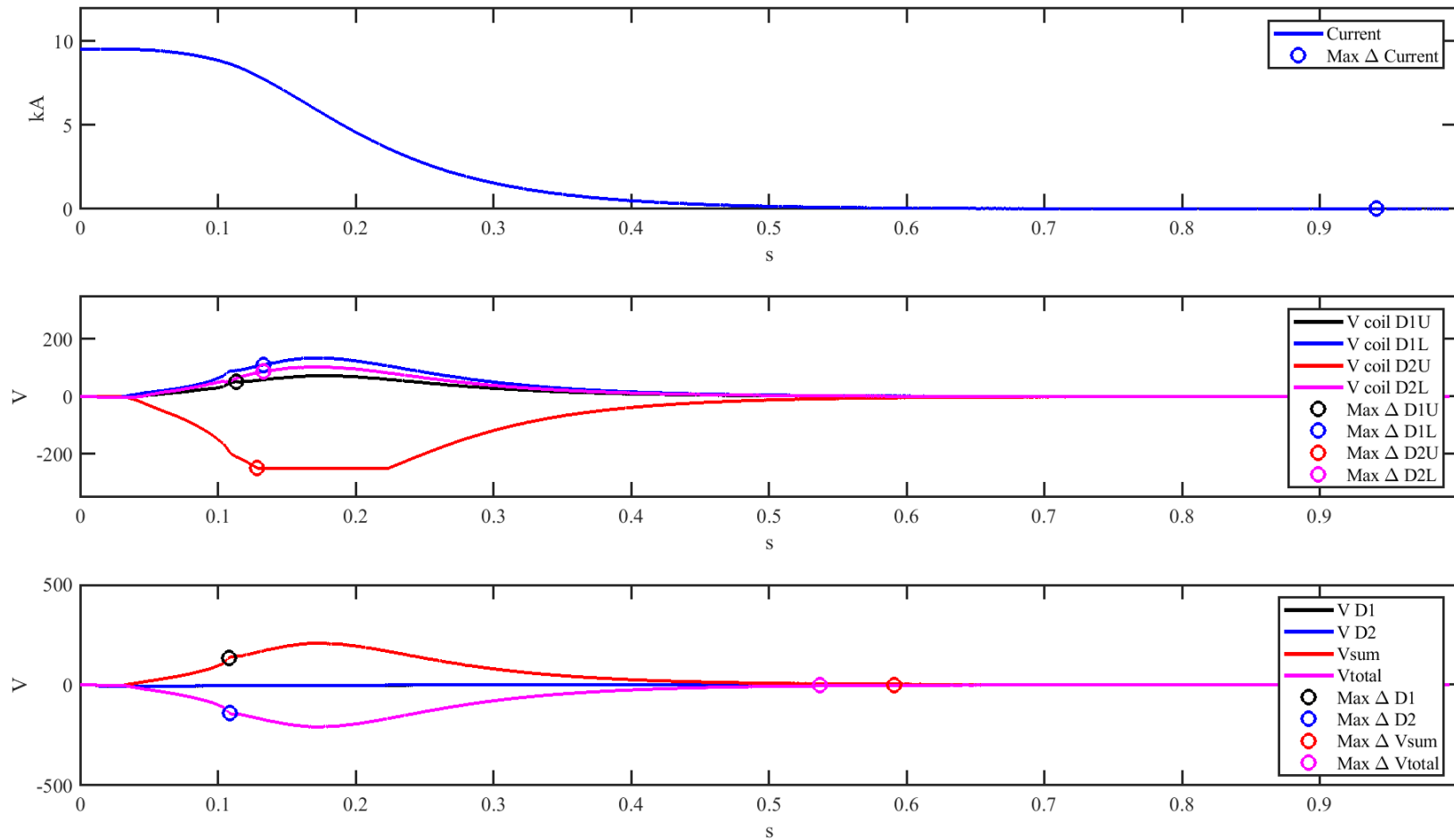


# Previously tested magnets: MBHB-002

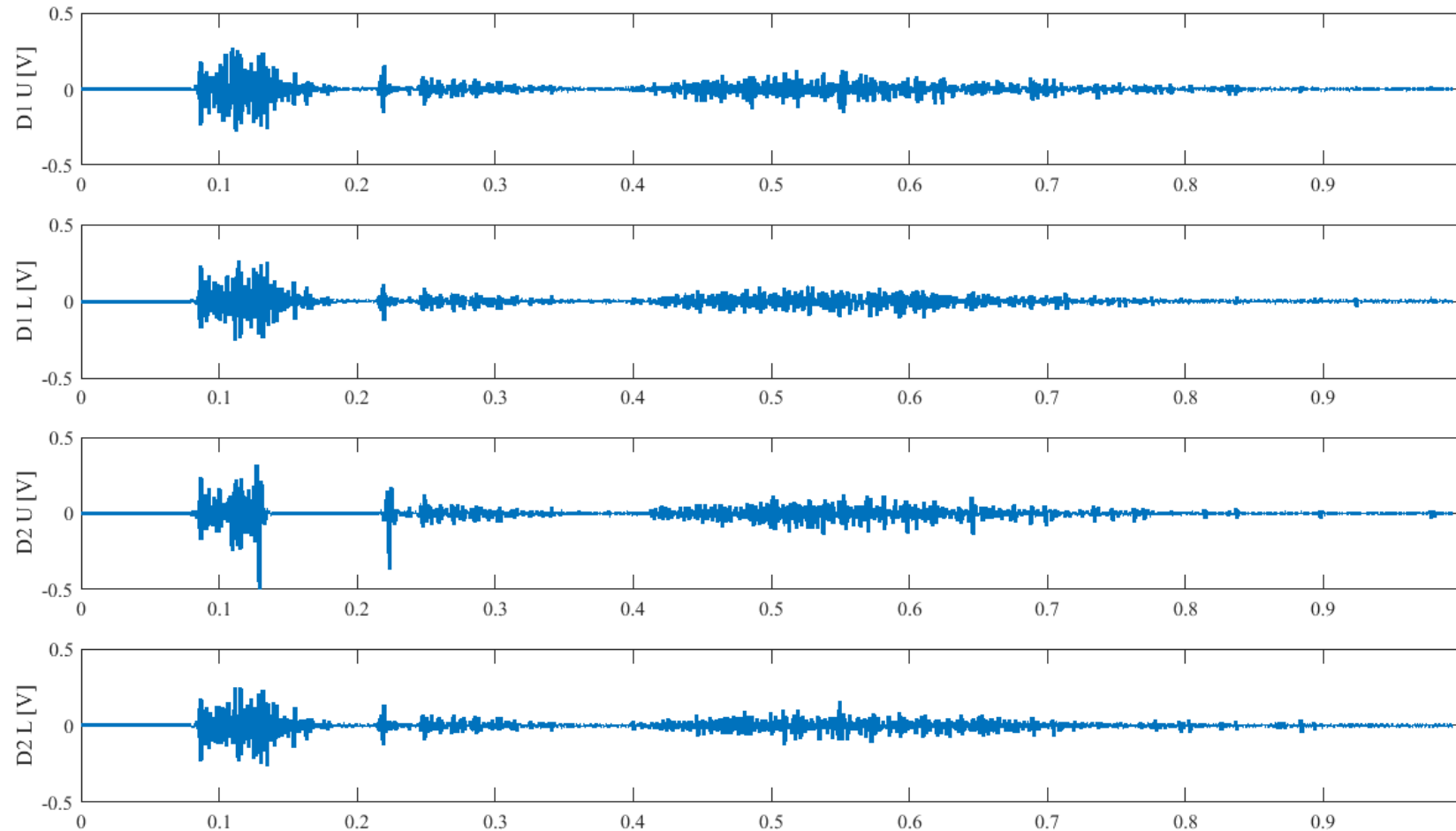


- Discharge from 11.85 kA
- 10x magnification for the plots
- Noise with a  $\sim 100$  times smaller amplitude

# Previously tested magnets: MBHA-002



# Previously tested magnets: MBHA-002



- Discharge from 9 kA
- 10x magnification for the plots
- Noise with a  $\sim 10$  times smaller amplitude
- Very similar signature

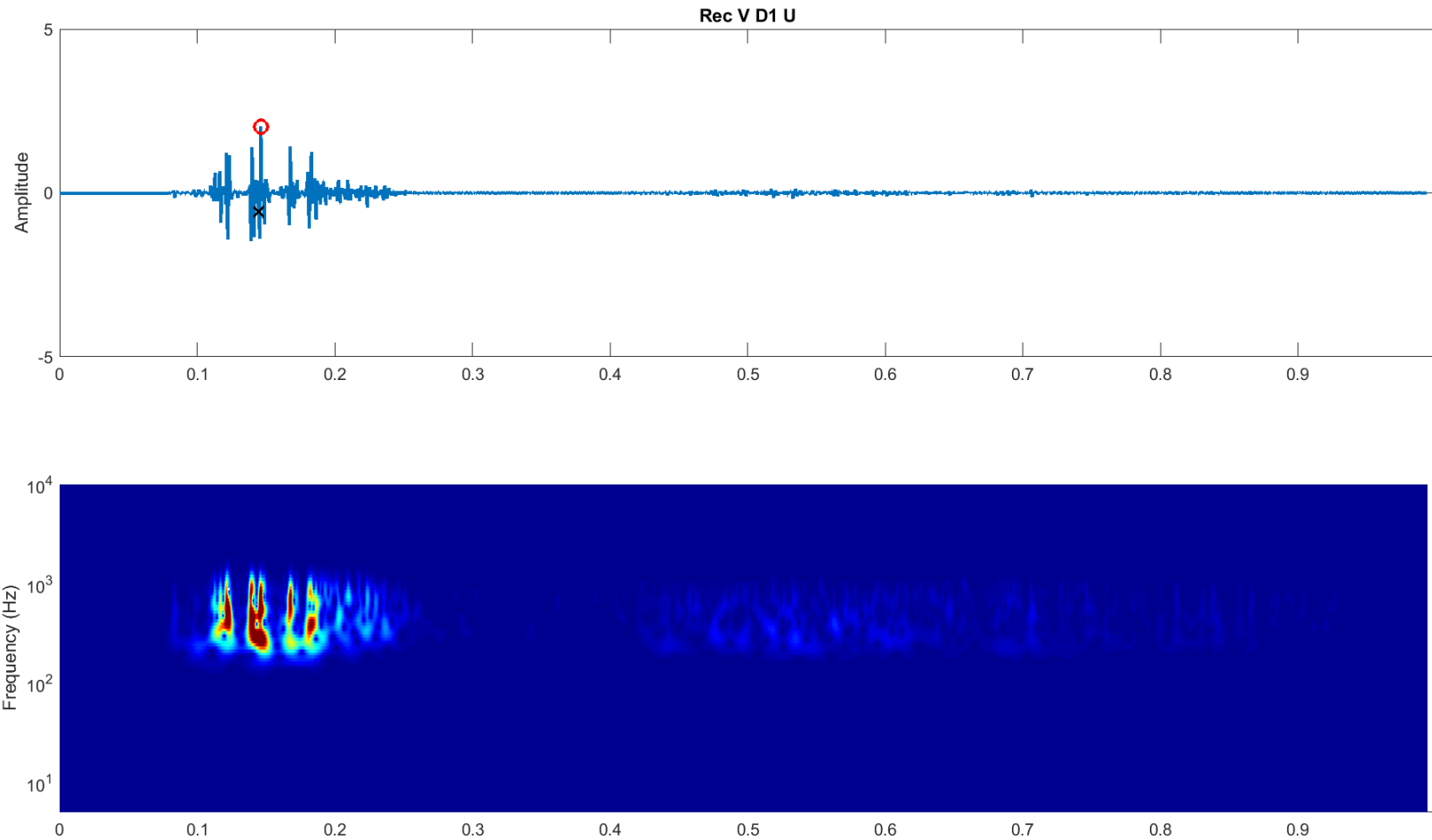
# Conclusions

- Quench antennas
  - Noise with similar patten as the spikes on some signals
    - On s1 of both apertures – CFB side (to be checked!)
    - On s5 only for AP2 – MRB side (to be checked!)
  - Some signals are corrupted by large noise
- Previously tested magnets
  - In the region of interest
    - On MBHB-002 the noise is 100 times smaller
    - On MBHA-002 the noise is 10 times smaller and with a similar pattern as on MBHA-001

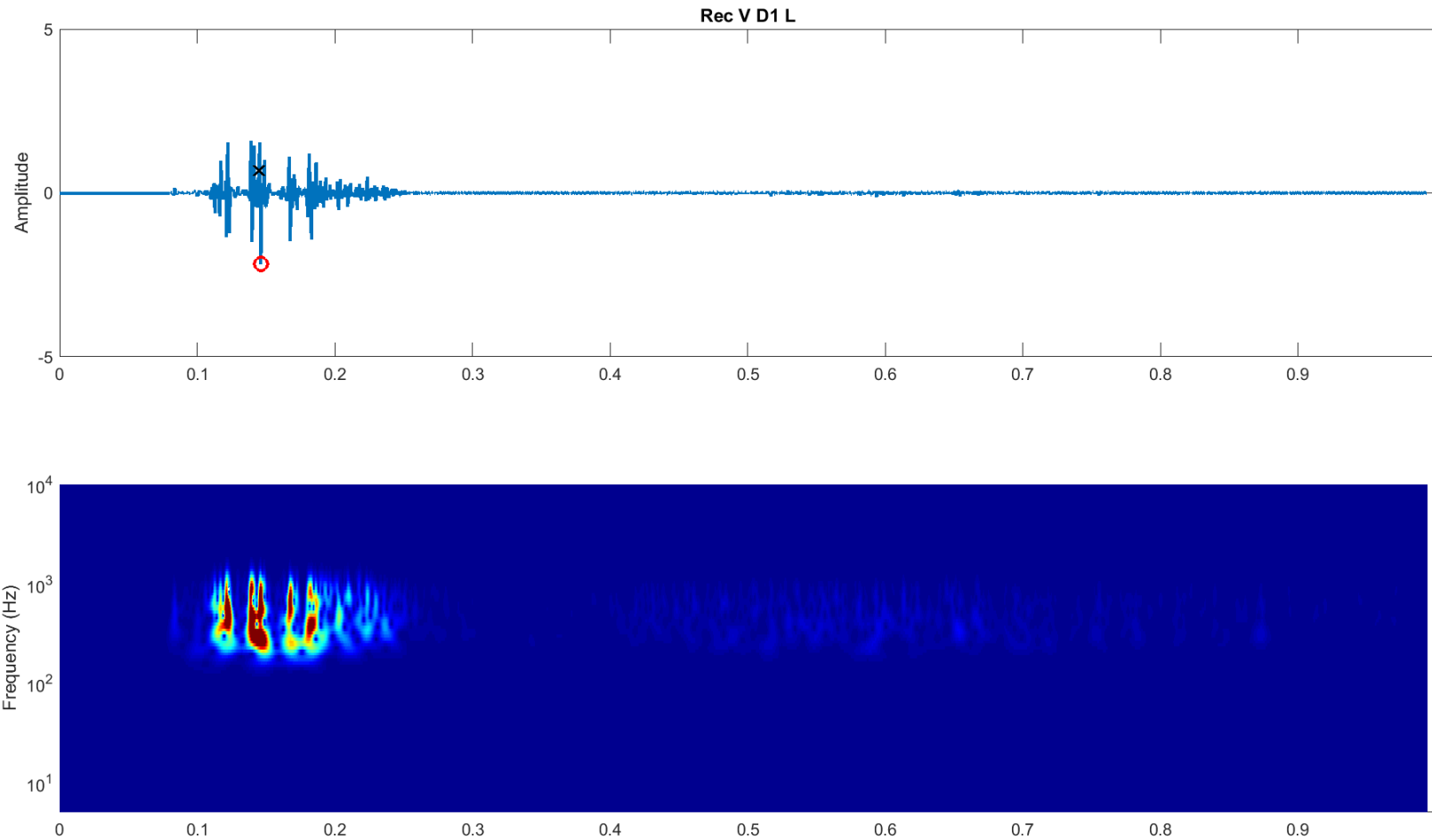


# Annexes

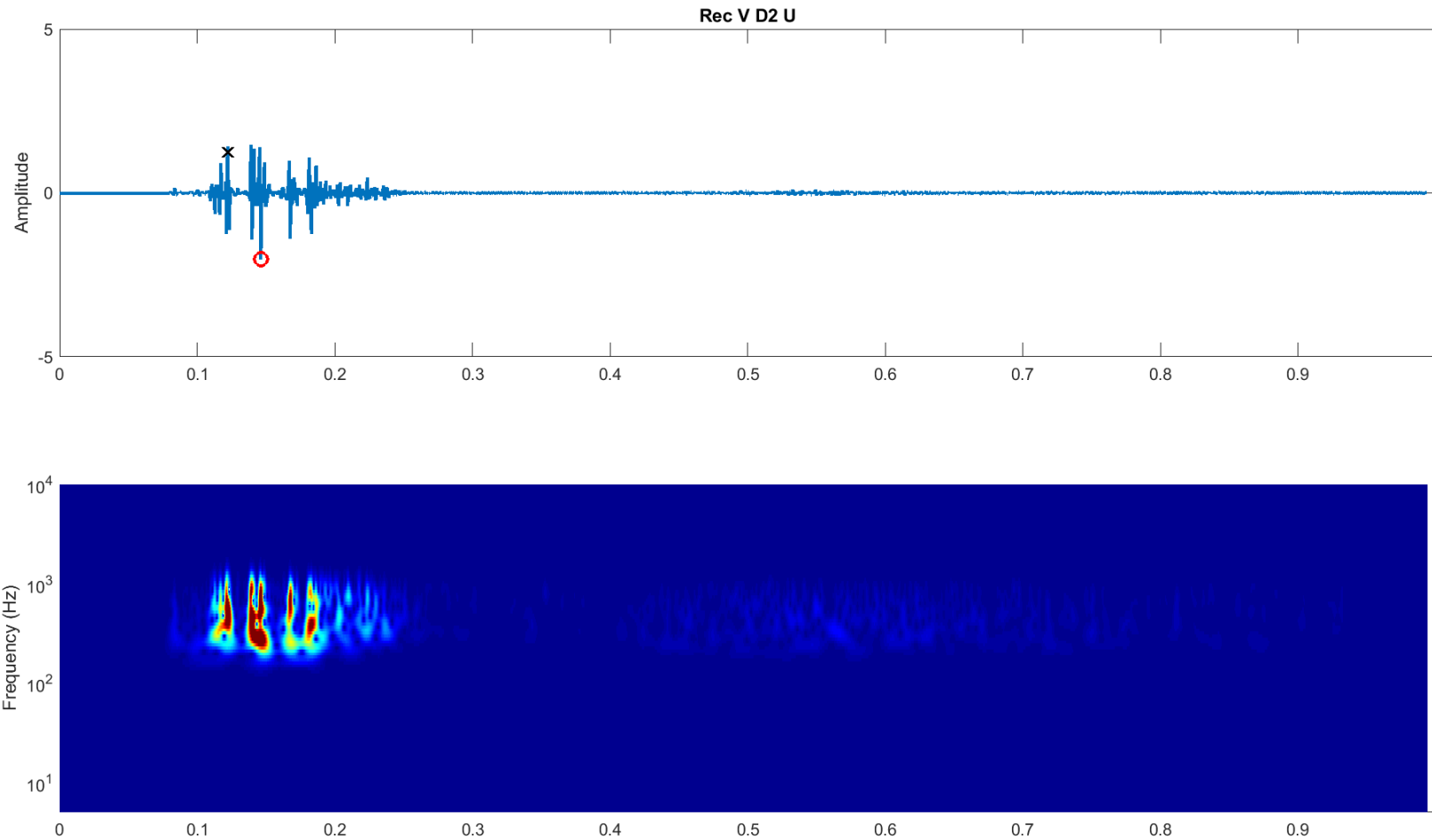
# MBHA-001



# MBHA-001



# MBHA-001



# MBHA-001

