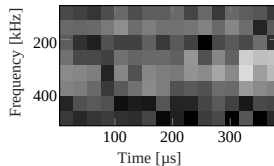
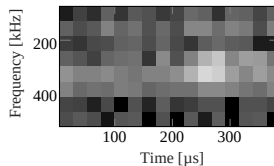


# TinyML Application: CNN Sensor Analytics for Structural Health Monitoring

S1



S2



Sampling frequency = 10 MHz  
FFT length = 32 samples  
Windowing = Blackman  
Overlap = 8 samples  
Frequency range = 100kHz - 500kHz

## Experimental setup:

Sensor and noise positions

Training dataset

Testing dataset

**Model architecture**