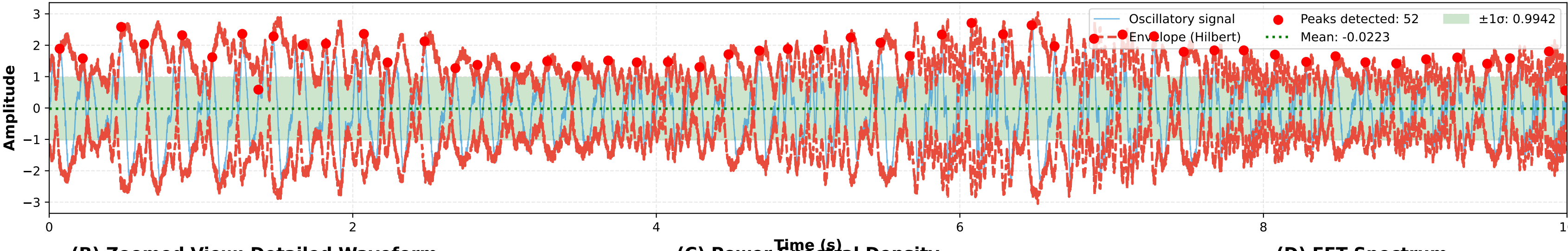
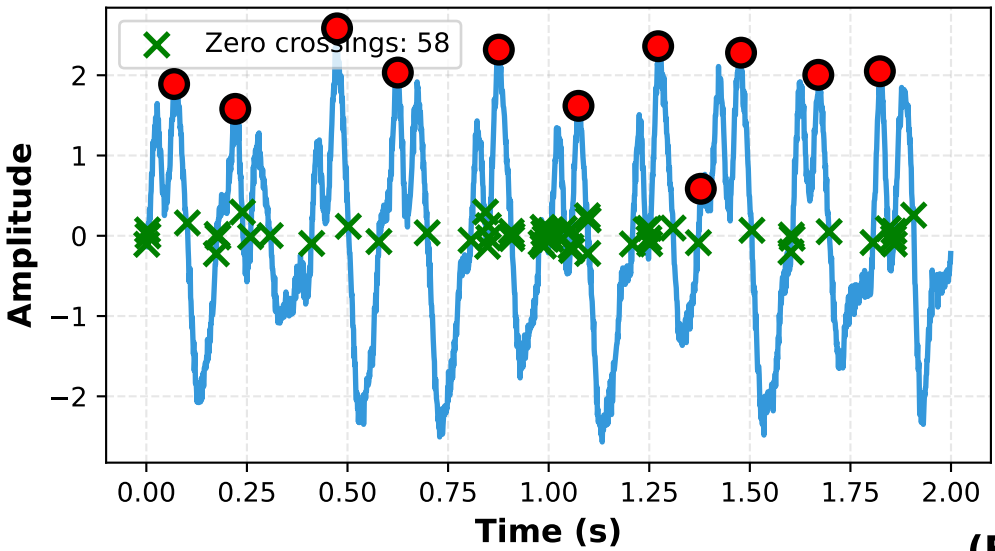


Oscillatory Test Analysis: Comprehensive Time-Frequency Characterization  
Dataset: 20251011\_065144 | Module: oscillatory | Duration: 10s, fs=1000Hz

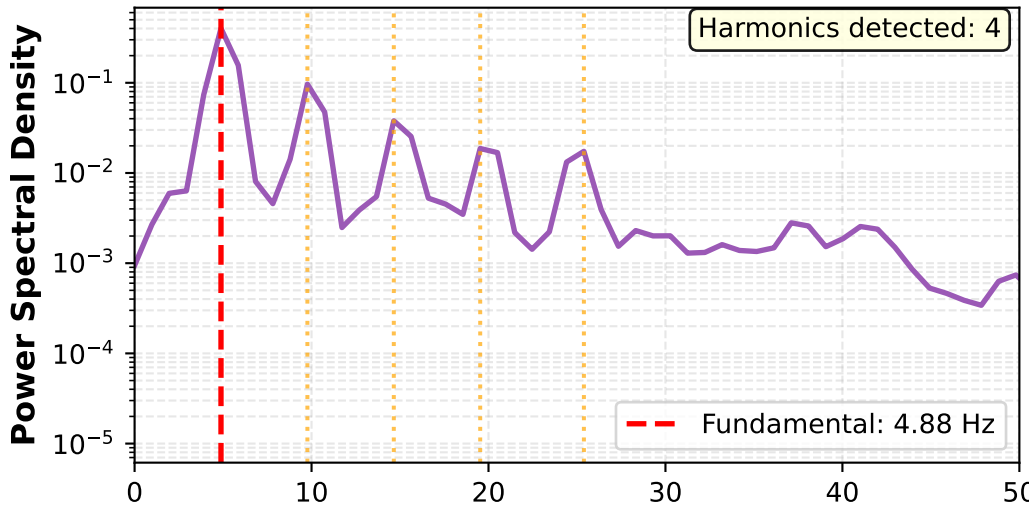
(A) Oscillatory Signal: Time Domain Analysis  
Full Duration with Envelope Detection



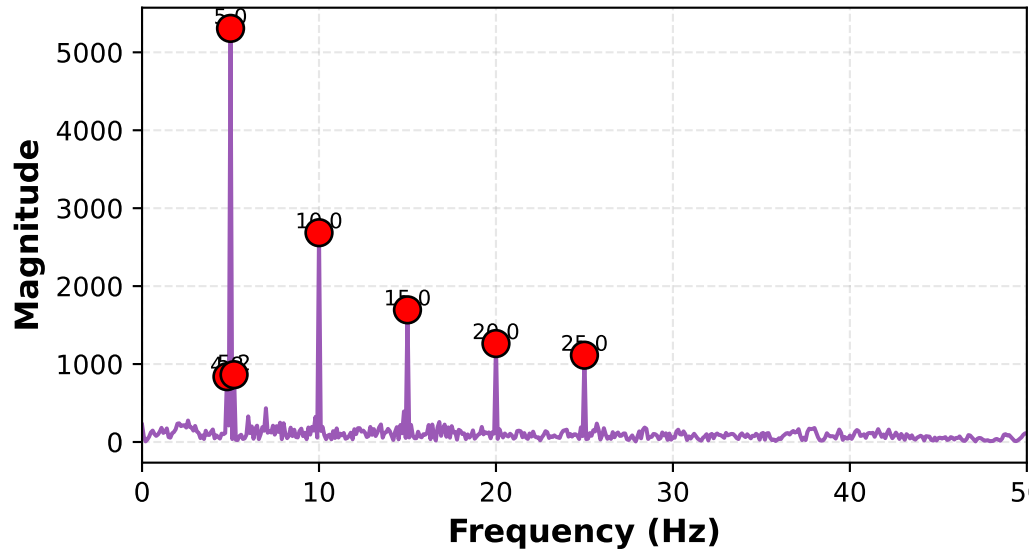
(B) Zoomed View: Detailed Waveform  
First 2 Seconds



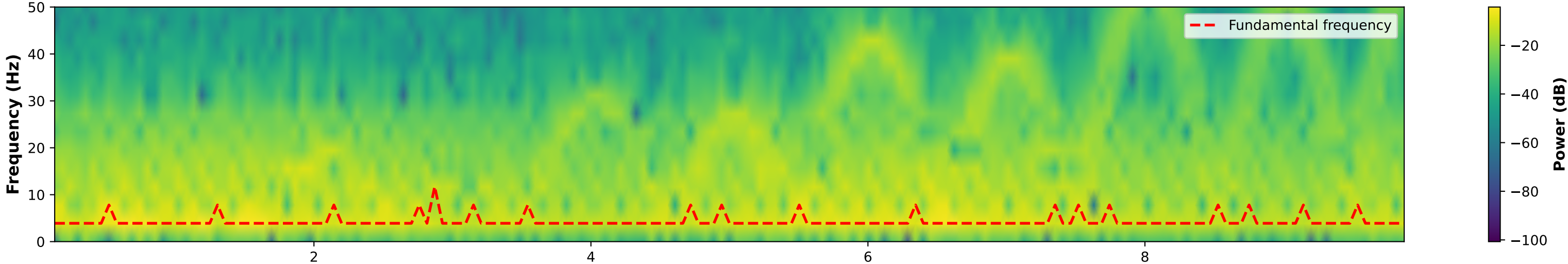
(C) Power Spectral Density  
Frequency Domain Analysis



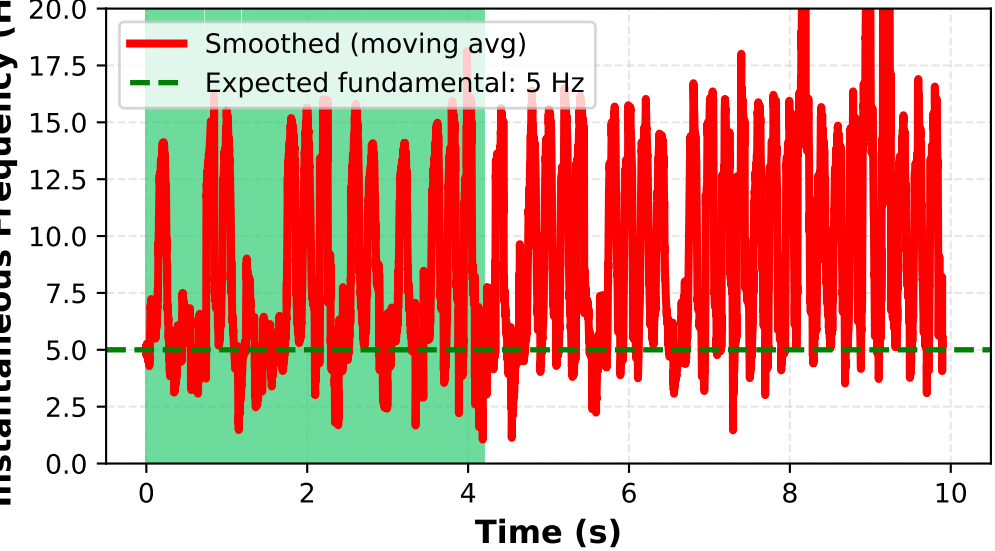
(D) FFT Spectrum  
Top Frequency Components



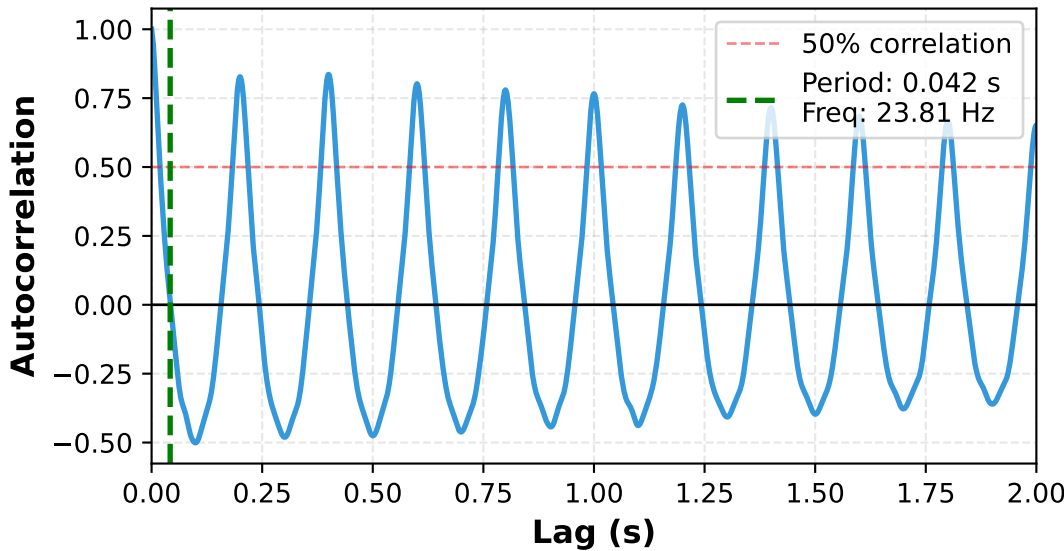
(E) Spectrogram: Time-Frequency Analysis  
Evolution of Spectral Content



(F) Instantaneous Frequency  
Phase-Derived Analysis



(G) Autocorrelation Function  
Periodicity Detection



OSCILLATORY TEST ANALYSIS

TIME DOMAIN STATISTICS:

Duration: 10.00 s  
Sampling rate: 1000 Hz  
Data points: 10,000

Mean: -0.022253  
Std deviation: 0.994159  
RMS: 0.994408  
Peak-to-peak: 5.277739

Minimum: -2.568704  
Maximum: 2.709036  
Crest factor: 2.7243  
Form factor: 1.2249

Peaks detected: 52  
Zero crossings: 58

FREQUENCY DOMAIN:

Dominant frequency: 4.8828 Hz  
Bandwidth (3dB): 0.0000 Hz  
Harmonics detected: 4  
THD: 64.39%

Fundamental power: 4.01e-01  
Total power: 1.03e+00

PHASE ANALYSIS:

Mean inst. freq: 9.0015 Hz  
Std inst. freq: 38.9451 Hz  
Freq modulation: 976.0034 Hz

PERIODICITY:

Estimated period: 0.042 s  
Estimated frequency: 23.809523809523807 Hz  
Autocorr at T: 0.014595939720707924

SIGNAL QUALITY:

SNR estimate: 19.95 dB  
Noise level: 0.100000  
Signal/Noise ratio: 9.94