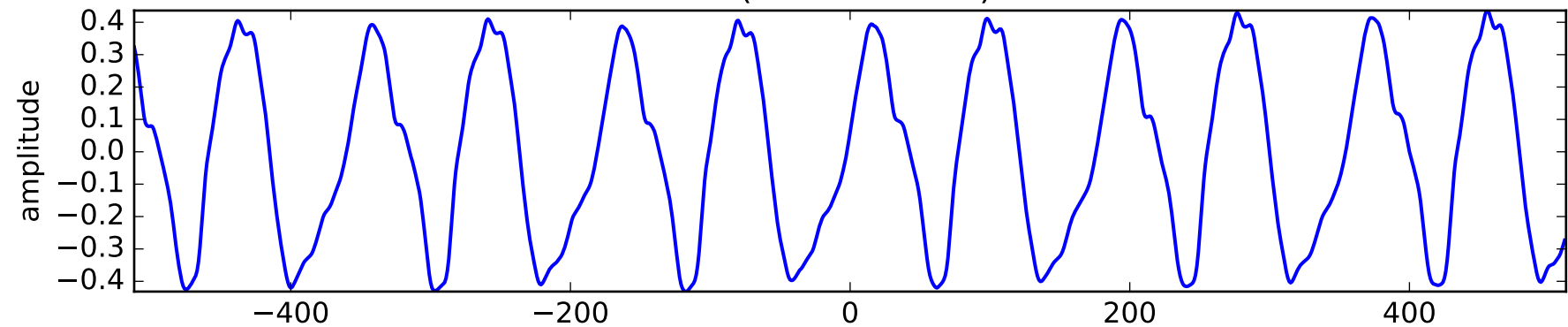
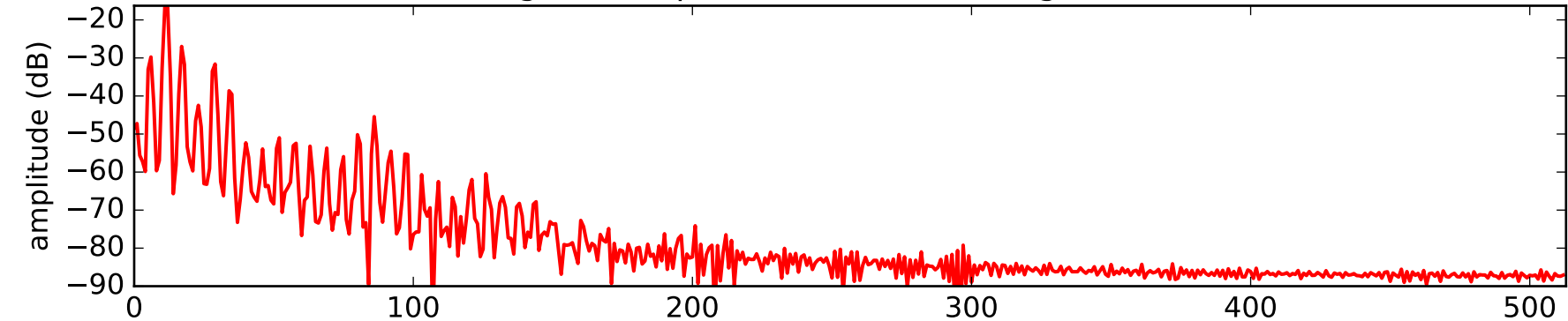


x (violin-B3.wav)



magnitude spectrum:  $mX = 20 \cdot \log_{10}(\text{abs}(X))$



phase spectrum:  $pX = \text{unwrap}(\text{angle}(X))$

