

Figure 2.25. Plot of absolute value of original voice signal over 3 periods illustrating fundamental pulse segregation. Fundamental frequency tracking features (X) are used as a starting point for searching for minima (circles), which define the pulse boundaries.

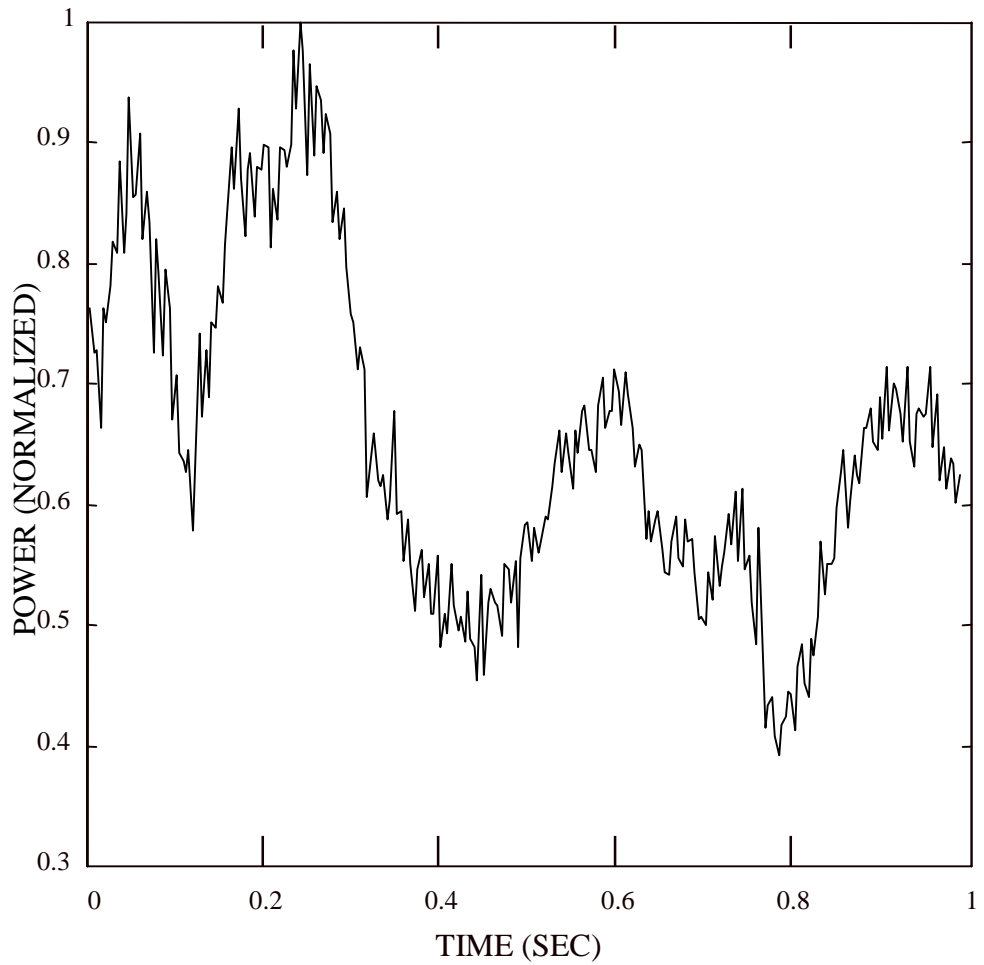


Figure 2.26. Power time history of same signal as Fig 2.25. The results of the pulse identification (Fig 2.19) are used to calculate the energy (sum of samples squared) of each fundamental pulse.

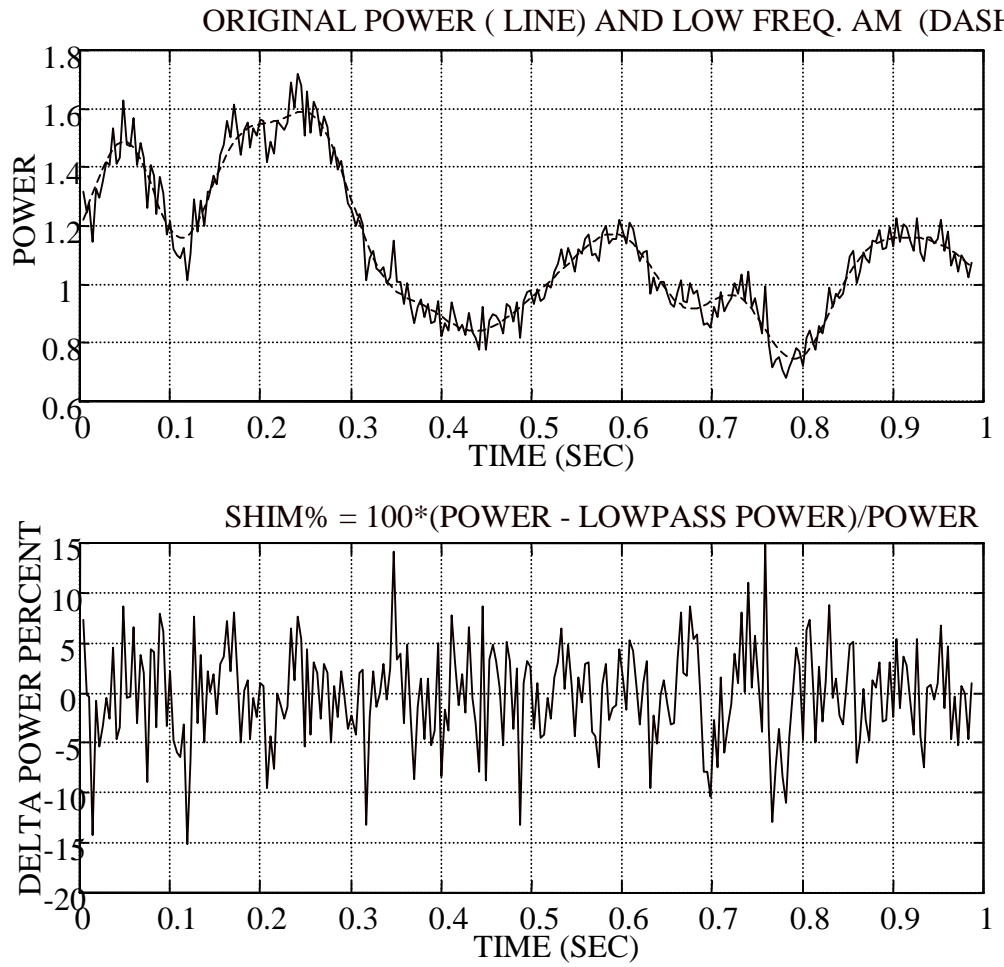


Figure 2.27. Power time history resolved into low frequency volume (top) and high frequency shimmer (bottom) components. The same signal is used as in previous figures.

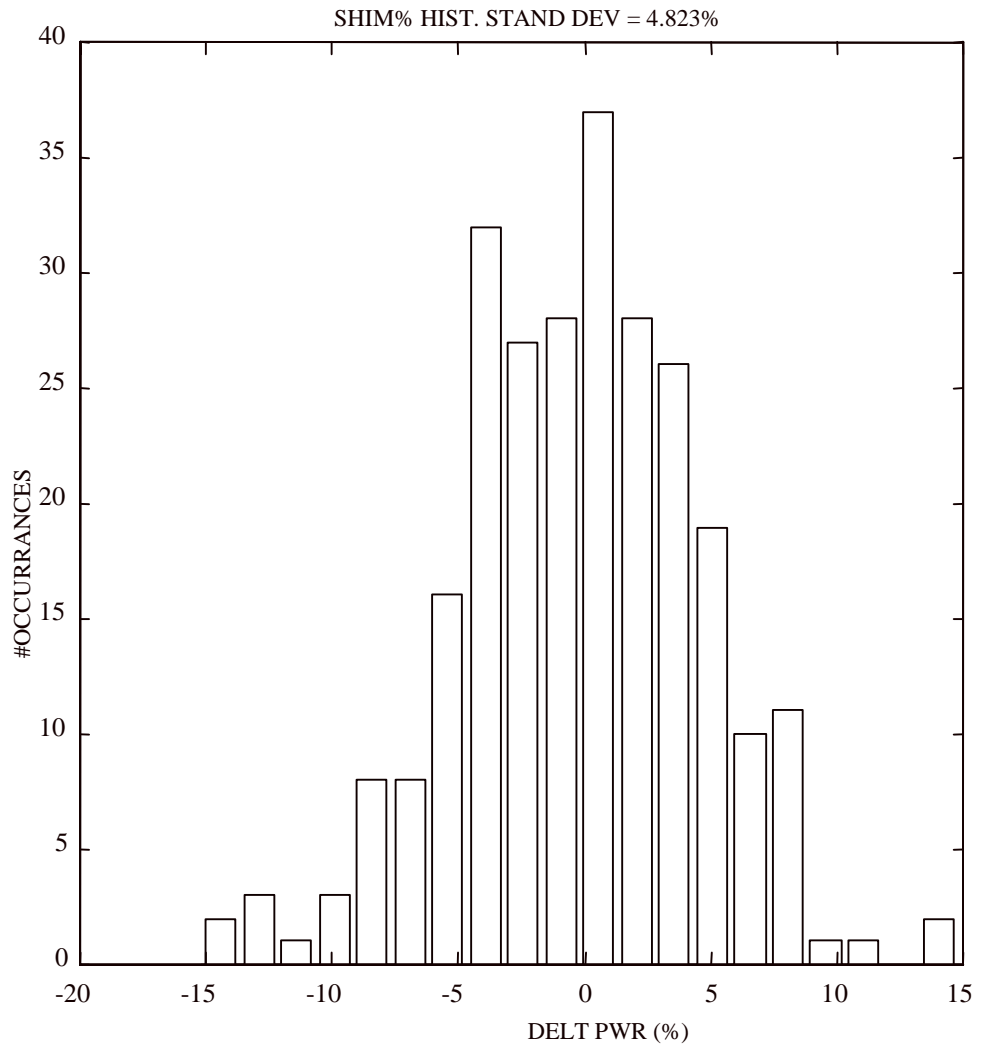


Figure 2.28. Histogram of shimmer values displays Gaussian form.

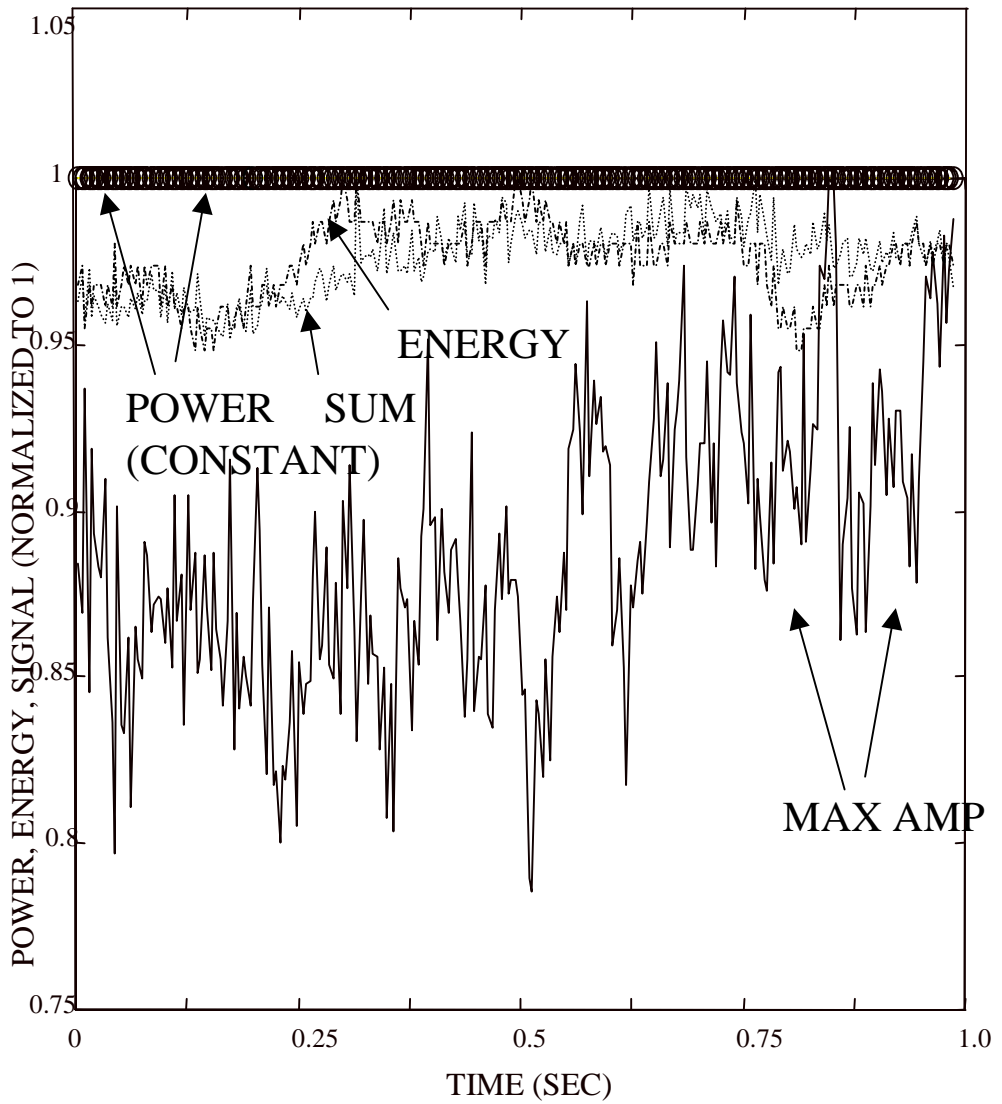


Figure 2.29. Power measures in the AM demodulated voice. The constant value of the power level time series verifies successful processing. Other measures of signal strength such as envelope amplitude show residual variations.