* 1. , ,
     1. On the positive and negative sides of the DFT plots, there’s a clear peak value with high magnitude.
     2. According to the DFT plots, peaks at , slightly off from the intended 304 Hz.

Chart, line chart

Description automatically generatedChart, line chart

Description automatically generated

* 1. , ,
     1. On the positive and negative sides of the DFT plots, there’s a clear peak value with high magnitude.
     2. According to the DFT plots, peaks at , slightly more off than last time from the intended 750 Hz.
     3. The peaks appear to be wider at this frequency than the previous.

Chart, line chart

Description automatically generated Chart, line chart

Description automatically generated

* 1. , ,
     1. On the positive and negative sides of the DFT plots, there’s a clear peak value with high magnitude.
     2. According to the DFT plots, peaks at , significantly off from the intended 1500 Hz.

Chart

Description automatically generated Chart, line chart

Description automatically generated

* 1. , ,
     1. There are many small peaks with very low magnitude, but no clear, high magnitude peak in .
     2. The vertical range of this plot is much smaller than that of the other three.

Chart, histogram

Description automatically generated

* 1. , ,
     1. The negative side is missing a line that would make the DFT symmetrical.
     2. The peaks in the DFT are very wide.
     3. The vertical range of the DFT is very small.

Chart, line chart

Description automatically generated

* 1. , ,
     1. The peaks in the DFT are somewhat wide.
     2. The vertical range of the DFT is small.

Chart, histogram

Description automatically generated

* 1. , ,
     1. The peaks in the DFT are very thin.
     2. The vertical range of the DFT is much larger than that when .
     3. peaks at precisely 304 Hz.

Chart, line chart

Description automatically generated Chart, line chart

Description automatically generated

* 1. , ,
     1. The peaks in the DFT are extremely thin.
     2. The vertical range of the DFT is extremely large.
     3. peaks at exactly 304 Hz.

Chart

Description automatically generatedChart, histogram

Description automatically generated

1. At the regular points, when is intended to be 304 Hz, peaks very close to, but not exactly 304 Hz.

Chart, line chart

Description automatically generated

When N is reduced, the accuracy of the peak reduces while the peak itself becomes larger. Conversely, with a higher N, the peak becomes thinner with increasing accuracy in its location.

Chart, line chart

Description automatically generatedChart, histogram

Description automatically generated