

TOTAL HARMONIC DISTORTION (THD) TEST PROCEDURE

EQUIPMENT LIST

Suggested

- A signal generator with the low phase noise option
- A spectrum analyzer with low phase noise
- Variable attenuators

Optional

- Low distortion power amplifier

TEST PROCEDURE

Bandpass Filters:

- Set the signal generator to the center frequency
- Adjust the signal level
- Connect the output of the signal generator to the input of the filter
- Connect the output of the filter into the variable attenuator (do not overload the input of the spectrum analyzer)
- Connect the output of the variable attenuator to the spectrum analyzer

Band Rejection Filters:

- The procedure is the same as it is for Bandpass Filters with the exception of setting the test frequency in the passband of the filter.

Lowpass Filters:

- As above. Use any frequency of interest up to the passband edge.

Highpass Filters:

- As above. Use any frequency of interest up to the passband edge.