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