LICENSING OPPORTUNITY:
CALIBRATION APPARATUS AND CALIBRATING CROSS-FREQUENCY PHASES OF LARGE-SIGNAL NETWORK ANALYZER MEASUREMENTS

DESCRIPTION

Problem

The method overcomes the limitation on the spacing of the calibration frequency grids inherent in the current approach of using difficult-to-manufacture comb generators to calibrate the phases of large-signal network analyzers.

Invention

This invention accurately calibrates the cross-frequency phases of large-signal network analyzers on arbitrarily fine frequency grids.

BENEFITS

Potential Commercial Applications

This method makes it ideal for application by a variety of instrument manufacturers, large and small.

Competitive Advantage

The method is based on easily obtained commercial instrumentation and can be easily applied to any instrument made by any manufacturer without using proprietary and difficult-to-manufacture comb-generator technologies currently in use.
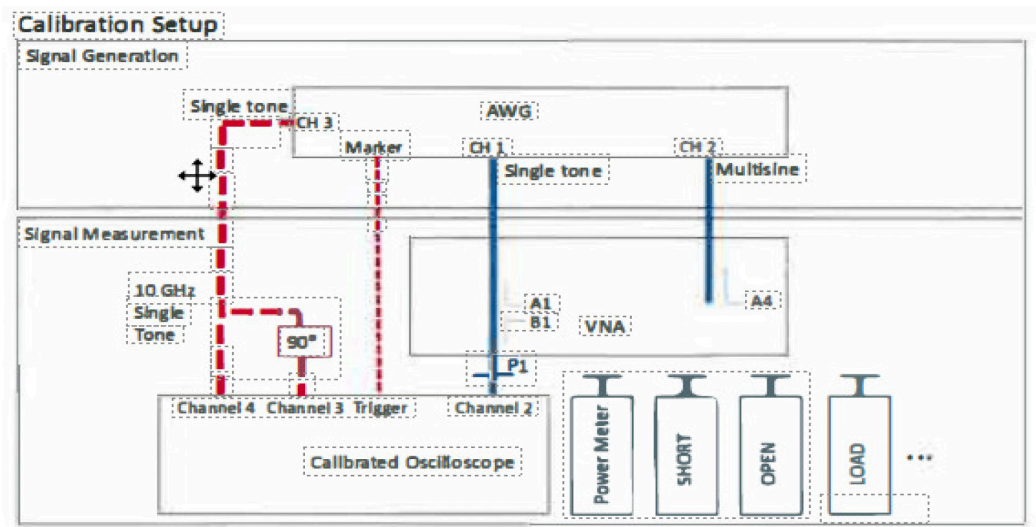
Calibration Setup. The traditional comb generator used to calibrate LSNA cross-frequency phases on a arbitrary grid is replaced by an inexpensive equivalent-time oscilloscope.