

Materials List for:

Calibration of Vector Network Analyzer for Measurements in Radio Frequency Propagation Channels

Chriss Hammerschmidt¹, Robert T. Johnk¹, Savio Tran¹

¹National Telecommunications and Information Administration, Institute for Telecommunication Sciences

Correspondence to: Chriss Hammerschmidt at chammerschmidt@ntia.gov

URL: <https://www.jove.com/video/60874>

DOI: [doi:10.3791/60874](https://doi.org/10.3791/60874)

Materials

Name	Company	Catalog Number	Comments
12 inch-pound torque wrench	Maury Microwave		TW-12
8 inch-pound torque wrench	Keysight Technologies		8710-1764
Attenuators	Mini-Circuits		BW-N10W50+
Cable 1	Micro-Coax		UFB311A – 36 feet
Calibration Standard Set (1) (manual)	Keysight Technologies		Economy Type-N Calibration kit, 85054 D
Calibration Standard Set (2) (E-cal)	Agilent Technologies		Electronic Calibration Kit, N4693-60001, 10 MHz to 50 GHz
Cleaning Swab	Chemtronics		Flextips Mini
Compressed Air	Techspray		Need ultra filtered
Filter 1	K&L Microwave, Inc.		8FV50-1802-T95-O/O
Isopropyl Alcohol	Any brand		
VNA	Keysight Technologies		There are many options available for a researcher – please consult the website