Understanding VNA Measurement

Service Data Sheet
PS-X10-100

• Comprehensive understanding of the Agilent VNA: how it operates, how to optimize measurements, and how to identify potential measurement error
• Use the VNA to characterize Device Under Test’s transmission and reflection characteristics
• Improve productivity and achieve optimal measurement quality

Service Description
Agilents’ Understanding VNA Measurement service offers assistance in understanding and using an Agilent Vector Network Analyzer (VNA) in your application specific test measurement environment.

Service Scope
An Agilent technical consultant, experienced in the programming and operation of the Agilent Network Analyzer, will conduct a comprehensive on-site review of the Agilent VNA. The in-depth training provided by the consultant is tailored to your specific environment and application.

Generally, an RF basics review will be conducted including transmission line, reflection and transmission parameters and S-parameter. The VNA configuration and error model will be introduced followed by calibration theory. The operation of a VNA will be demonstrated then you will operate the instrument following the outlined procedure.

The time required to effectively deliver this service is dependent on the scope of the measurement test systems being analyzed. This service does not include analysis of measurement uncertainty within your test measurement environment.

Business Need
• Improve efficiency
• Increase productivity
• Improve quality
• Effectively apply VNA to your application

Required From Customer
• Agilent VNA and Calibration Kit
• The Device Under Test (DUT) that you will be testing along with the necessary connectors
• Test personnel with basic RF/Microwave knowledge

What You Will Receive
• The services of an Agilent Technical Consultant experienced with the Agilent VNA.
• A thorough review of the VNA, as well as theory behind testing the transmission and reflection characteristics of the device under test (DUT)

Ordering Information
Contact your local Agilent Sales Representative for a custom quotation.

Related Services
• Understanding VNA Time Domain Analysis
• Test System Uncertainty Analysis
• Analysis to Improve the Accuracy and Reliability of VNA Measurements
Agilent Technologies’ Test and Measurement Support, Services, and Assistance

Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully. Every instrument and system we sell has a global warranty. Support is available for at least five years beyond the production life of the product. Two concepts underlie Agilent’s overall support policy: “Our Promise” and “Your Advantage.”

Our Promise
Our Promise means your Agilent test and measurement equipment will meet its advertised performance and functionality. When you are choosing new equipment, we will help you with product information, including realistic performance specifications and practical recommendations from experienced test engineers. When you receive your new Agilent equipment, we can help verify that it works properly and help with initial product operation.

Your Advantage
Your Advantage means that Agilent offers a wide range of additional expert test and measurement services, which you can purchase according to your unique technical and business needs. Solve problems efficiently and gain a competitive edge by contracting with us for calibration, extra-cost upgrades, out-of-warranty repairs, and onsite education and training, as well as design, system integration, project management, and other professional engineering services. Experienced Agilent engineers and technicians worldwide can help you maximize your productivity, optimize the return on investment of your Agilent instruments and systems, and obtain dependable measurement accuracy for the life of those products.

For more information on Agilent Technologies’ products, applications or services, please contact your local Agilent office. The complete list is available at: www.agilent.com/find/contactus

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