

China National Institute of Metrology Microwave Parameters Lab Selects Anritsu VectorStar™ Broadband System

*— Innovative ME7838A VNA Solution to be Used by Leading Laboratory in Development of
Standards for On-wafer S-parameter Calibration —*

Morgan Hill, CA – Anritsu Corporation Microwave Measurement Division (MMD) announces that the China National Institute of Metrology (NIM) Microwave Parameters Lab has selected the Anritsu VectorStar™ ME7838A 110 GHz broadband Vector Network Analyzer (VNA) system. The lab will use the advanced test solution to develop standards for on-wafer S-parameter calibration procedures.

Lab Director Dr. XinMeng Liu stated that the VectorStar ME7838A broadband VNA was selected because of its wide 70 kHz to 110 GHz frequency coverage, excellent dynamic range and calibration stability, very low high-power trace noise, and high measurement repeatability. The solution will be used as part of an initiative to develop a national Scattering parameter metrology standard for China.

“This system meets the domestic electronic industry requirement for millimeter-wave (mm-wave) parameter traceability. The mm-wave multiplier module in the VectorStar ME7838A uses the most advanced technology to achieve small size and light weight. Also, the compact size and 1.0-mm coaxial connector allow for a direct connection to the 1.0-mm coaxial microwave probe tips for on-wafer measurements. By eliminating the cable connection between the mm-wave module and the probe, the highest measurement dynamic range is ensured, making the ME7838A well suited for on-wafer measurement applications,” said Dr. XinMeng Liu.

The VectorStar ME7838A is the most accurate noise figure measurement solution above 65 GHz available in China. Best-in-class performance is achieved, in part, due to the new 3744A-Rx mm-wave receiver module, which is specifically optimized for noise figure measurements. Additionally, a cold source method is integrated in the VectorStar ME7838A and used for noise figure measurements up to 125 GHz to achieve highly accurate results.

(more)

“We are honored that the Vector**Star** ME7838A has been chosen by the China National Institute of Metrology as this renowned institute begins to develop a mm-wave parameter metrology standard for China. Anritsu has a long heritage of developing leading-edge VNA solutions that meet industry needs. Vector**Star** is our latest innovation and specifically meets the high-frequency measurement requirements of engineers worldwide,” said Donn Mulder, General Manager of Anritsu MMD.

About Anritsu

Anritsu Corporation has been a global provider of innovative communications test and measurement solutions for more than 110 years. Anritsu provides solutions for existing and next-generation wired and wireless communication systems and operators. Anritsu products include wireless, optical, microwave/RF, and digital instruments as well as operations support systems for R&D, manufacturing, installation, and maintenance. Anritsu also provides precision microwave/RF components, optical devices, and high-speed electrical devices for communication products and systems. With offices throughout the world, Anritsu sells in over 90 countries with approximately 4,000 employees.

To learn more visit www.anritsu.com.

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2014年2月，安立微波测量部门，美国，加利福尼亚州，摩根希尔市。

新闻:

安立微波测量部门非常高兴的宣布，中国国家计量院（NIM）微波参数实验室主任刘欣萌博士，选择了安立的最新 110GHz 矢量网络分析仪系统 ME7838A 作为片上 S 参数校准标准的建立。

刘欣萌博士说：“安立公司的 ME7838A 矢量网络分析仪的超宽频率覆盖（从 70kHz 到 110GHz），具有优秀的 动态范围 和校准稳定度，非常低的高功率轨迹噪声，以及非常高的测量重复性，这些优点是我们选择这套系统作为毫米波参数国家计量标准的原因。这套系统满足了国内电子行业对毫米波参数溯源的需要。ME7838A 系统中的 3743A 毫米波变频模块，由于采用了新的技术，体积更小，重量更轻。而且信号输出端口采用 1.0mm 同轴接头，给毫米波在片测试它可以直接连接 1.0mm 同轴探针，由于在模块和探针之间不需要连接任何电缆，从而保证了系统有最高的测量动态范围。因此 ME7838A 特别适合于片上测量系统应用。国家计量院正在基于 ME7838A 建立中国首个在片参数计量标准，这将填补中国在片测量标准的空白。”

目前，中国对于 65GHz 以上噪声系数的测量还没有合适的方案。安立公司最新的 3744E-Rx 毫米波接收模块，是在 3743A 模块基础上，特别针对噪声系统测量做了优化。噪声系数测量采用基于 VNA 的冷源法，支持最高 125GHz 噪声系数测量，是目前高频噪声系数测量的最佳方案。

安立微波测量部门 总经理 Donn Mulder 说：“我们非常荣幸，ME7838A 能够被中国国家计量院选中，承蒙该单位用于构成 中国毫米波参数计量标准。ME7838A 自从发布以来，给毫米波（110GHz）宽频及 带 频测量带来了革命性的改变。基于我们的 VectorStar 矢量网络分析仪为系统平，ME7838A 可以实现在片毫米波宽频 特性 分析，E 及 W band 波导测试，噪声系数测试，脉冲测试等毫米波应用。”

安立微波测量仪表部门前身为美国 Wiltron（微冲）微波公司，50 多年以来，我们始终坚持以客户为中心，技术为导向，一直致力于为用户提供高性能的射频和微波测量仪表。