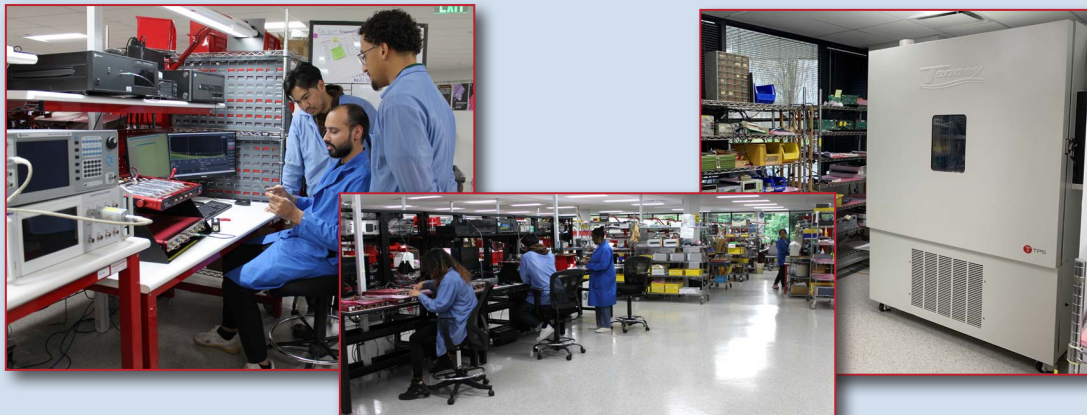


# FAB\$ and LAB\$

## Maury Microwave: Building Advanced RF Instrumentation in N.J., from High-Fidelity Channel Emulators to Precision Power Analyzers



Since 1957, Maury Microwave has been a pioneer in designing and manufacturing precision RF and microwave calibration, test, measurement and modeling solutions that power global efforts toward a more secure, connected future. In 2021, Maury acquired dBmCorp, Inc., a leading designer and manufacturer of wireless link emulation equipment used for research and development, qualification and production verification testing in the satellite and wireless communication industries. In 2023, Maury acquired Wireless Telecom Group (comprising the Boonton, Holzworth and Noisecom brands), significantly expanding its test and measurement technology portfolio to include high performance phase noise analysis, RF synthesis, signal generation, noise generation and RF power measurement.

To support its expanding RF and microwave capabilities, Maury operates facilities across North America and Europe. The company is headquartered in Ontario, Calif., with regional offices in Parsippany, N.J., and Eindhoven, the Netherlands. In 2024, the Parsippany site relocated to a larger facility, consolidating multiple Maury technologies into a centralized, state-of-the-art manufacturing plant. The site builds, tests and calibrates phase noise analyzers, low phase noise RF synthesizers, high-fidelity satellite link emulators, additive white Gaussian noise sources and RF power measurement instruments — from real-time USB power sensors to precision power measurement analyzers.

The new manufacturing area integrates engineering, production and RF testing to build these high performance solutions. Electrical assembly includes PCB and RF connector soldering and the assembly of microwave subassemblies. The facility also supports high-accuracy pick-and-place, microwave module preparation and precision wire bonding for high frequency technologies. Mechanical assembly integrates these modules into complete instruments and systems.

Units undergo thermal burn-in in a specialized on-site chamber. Instruments are operated under controlled conditions to stabilize components, screen for early-life failures and assess long-term reliability. After burn-in, technicians perform final calibration, tuning and alignment across a broad range of RF and microwave systems, confirming measurement accuracy and ensuring that each system meets defined performance specifications.

Alongside advanced instrumentation hardware manufactured in N.J., Maury draws on decades of measurement science expertise to identify, develop and supply each component of complex measurement systems, ensuring high-integrity results and repeatability. Calibration solutions establish an accurate measurement environment with S-parameter, power and noise calibration and verification standards. Precision interconnects, including adapters, cable assemblies and attenuators, form the essential foundation for reliable test setups. High performance solid-state GaN power amplifiers deliver efficient, highly linear signal performance across wide bandwidths. Maury delivers turnkey characterization solutions featuring impedance tuners, load-pull systems and noise parameter systems, supported by modeling software and data-analysis tools that optimize workflows, enable confident design decisions and drive innovation at every stage of development.

Maury solutions support bit error rate measurement, calibration, component testing, EMI/EMC, hardware-in-the-loop, 5G non-terrestrial networks and link emulation, quantum computing and radar for aerospace and defense, semiconductor, wireless communications and advanced research applications. From RF through sub-THz, Maury continues to empower engineers shaping the future of RF and microwave technologies.

[www.maurymw.com](http://www.maurymw.com)