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MVG and Anritsu Partner to Advance NTN OTA Testing for 3GPP Mobile and IoT Devices

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Microwave Vision Group (MVG) and Anritsu announce the availability of a joint testing solution supporting Over-The-Air (OTA) validation of Non-Terrestrial Network (NTN) communications for Mobile and IoT devices. MVG has adapted its multi-probe OTA systems to integrate the capabilities of Anritsu's Radio Communication Analyzer MT8821C, delivering a lab-based environment for realistic satellite link emulation in compliance with 3GPP requirements.



As NTN deployments gain momentum—particularly through LEO satellite constellations—Mobile and IoT devices must now demonstrate robust performance under conditions that differ significantly from terrestrial operation. These include Doppler shift due to satellite motion, increased signal propagation delays, complex network reselection mechanisms between satellite and ground networks, and roaming across regulatory domains. Emulating these variables accurately in the lab is critical to ensure device readiness and reduce dependency on field trials.

To address this challenge, MVG has configured its OTA systems—such as the SG system and StarLab—to host Anritsu's MT8821C as the core signal generation and analysis platform. The MT8821C, widely recognized for its reliability in LTE and IoT testing, brings advanced RF and protocol capabilities into MVG's controlled OTA measurement environments. This allows

manufacturers to evaluate critical metrics such as Total Radiated Power (TRP), Total Isotropic Sensitivity (TIS), and receiver sensitivity under satellite-like test conditions.

MVG's OTA Product Manager, Sebastien Gaymay, highlights a crucial benefit: 'By adapting our test chambers to operate with the MT8821C, we're giving R&D teams the ability to emulate key NTN communication scenarios directly in the lab.' This, he adds, 'enables earlier debugging and faster development cycles for satellite-capable Mobile and IoT devices.'

The MT8821C supports a wide frequency range and provides stable, high-throughput RF testing for LTE, LTE-Advanced, Cat-M1, and NB-IoT terminals. Within the MVG system, it enables synchronized measurements through WaveStudio software, allowing test engineers to simulate and assess device performance under realistic NTN conditions aligned with 3GPP TS 36.521-4.

Toshiya Otowa, Manager of Solution Marketing Department, Mobile Solutions Division at Anritsu, says, 'Thanks to our collaboration with MVG, we are now able to conduct testing of NTN-compatible mobile and IoT devices under conditions that closely resemble real-world environments. Thereby, we are pleased to contribute to the realization of a truly connected society enabled by NTN technology, where connectivity is available anytime, anywhere.'

This solution is particularly suited to OEMs and integrators working on global asset tracking, remote monitoring, and industrial IoT applications—areas where NTN networks will be key to expanding coverage. It also facilitates testing against network specifications such as those defined by Skylo, helping vendors verify performance and readiness for deployment on commercial NTN services.

About Microwave Vision Group

The Microwave Vision Group offers cutting-edge technologies for visualizing electromagnetic waves. With advanced test solutions for antenna characterization, radar signature evaluation, and electromagnetic measurements, MVG supports company R&D teams in their drive to innovate and boost product development. MVG operates in 10 countries and generates 90% of its sales from exports. The Group has generated revenues exceeding €100 million.

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About Anritsu

Anritsu is a provider of innovative communications test and measurement solutions. Anritsu engages customers as true partners to help develop wireless, optical, microwave/RF, and digital solutions for R&D, manufacturing, installation, and maintenance applications, as well as multidimensional service assurance solutions for network monitoring and optimization. Anritsu also provides precision microwave/RF components, optical devices, and high-speed electrical

devices for communication products and systems. The company develops advanced solutions for emerging and legacy wireline and wireless technologies used in commercial, private, military/aerospace, government, and other markets.

More information on: [MT8821C on Anritsu.com](#)

