

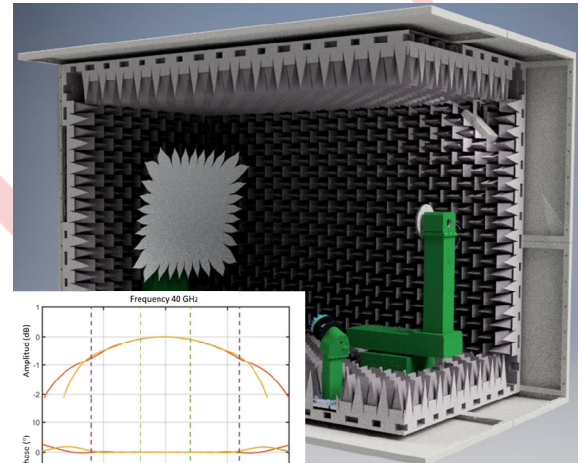
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Fuente Álamo de Murcia - Spain

EMITE releases the first system worldwide for simultaneous 5G Sub-6 GHz + mmWave OTA Testing

After some record-setting E2E latencies OTA tests for 5G SA with Vodafone and Ericsson, EMITE announces the very first OTA test system worldwide capable of simultaneously testing 5G FR1 Sub-6 GHz frequencies (from 3 up to 6 GHz) with FR2 mmWave frequencies (24 up to 110 GHz) at Mobile World Congress America 2018. The new test bed is based on the 3GPP-permitted Compact Antenna Test Range (CATR) OTA test method, achieving unheard-of capabilities for OTA testing of 5G NR SA or NSA carrier aggregation (CA) or dual-connectivity (EN-DC). The new 5G SA/NSA FR1+FR2 OTA test bed has been developed at the EMITE 5G Lab in Cartagena, Spain.



Highlights:

- The new test bed makes use of EMITE OTA CATR small-size
- With excellent 15 μm peak-to-peak manufacturing accuracies, design serrated-edges reflector and feed-source for the H285 Compact Antenna Test Range is now capable of providing uniform wavefronts for frequencies from 3GHz up to 110 GHz.
- With 30 and 60 cm Quiet Zones, the new test bed achieves $<0.5\text{dB}$ and $\pm 2^\circ$ amplitude/phase ripples
- Customers can now benefit from fast, effective and realistic 5G OTA laboratory tests for 5G combinations of Sub-6 GHz and mmWave frequencies.

The use of FR1 frequencies are limited to 3 to 6 GHz at the tested design for now, and EMITE is already manufacturing a patented design capable of testing the full 5G frequency range. With just about 3m x 2m x 2m, the small-size compact antenna test range outperforms any existing model in the market, providing excellent both amplitude and phase uniformity for a relatively large quiet zone.

“The uniformity results are astonishingly good, and we are now proceeding to test E2E tests with the new 5G OTA test bed. Customer can now test what they can only hope for a few months ago”, said Prof. David A. Sanchez-Hernandez, CEO of EMITE. Interested parties can get more information at MWC America, Hall South, Stand S.1460.

About EMITE

EMITE Ingeniería S.L. is a high-tech company, spin-out from the Technical University of Cartagena (Spain). EMITE was awarded with the Spanish Emprendedor XXI Award, CincoDías Innovation National Award and Certified by Spanish ANCES as Innovative High-Tech Company (EiBT). The company is headquartered at the Fuente Álamo High Tech Park in the Region of Murcia (Spain). EMITE designs, develops, manufactures and commercializes OTA Test Systems for performance, compliance and pre-compliance testing of any 2G to 5G standards and pre-standards worldwide, including LTE-A and WIFlabgnac. The company has distribution offices in the US, Canada, Brazil, Israel, Turkey, Italy, The UK, Czech Republic, Germany, France, Belgium, The Netherlands, South Korea, India, China, Taiwan R.O.C., Singapore, Japan and Australia. EMITE's MIMO OTA Test Systems were selected by 3GPP and CTIA as candidate methodology for the study and work items through standardization of LTE MIMO OTA test methods.

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