

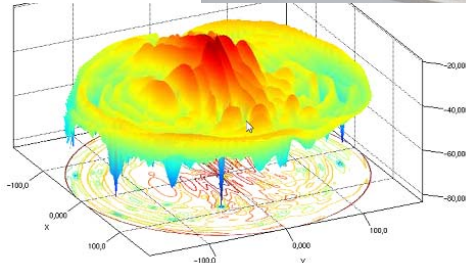
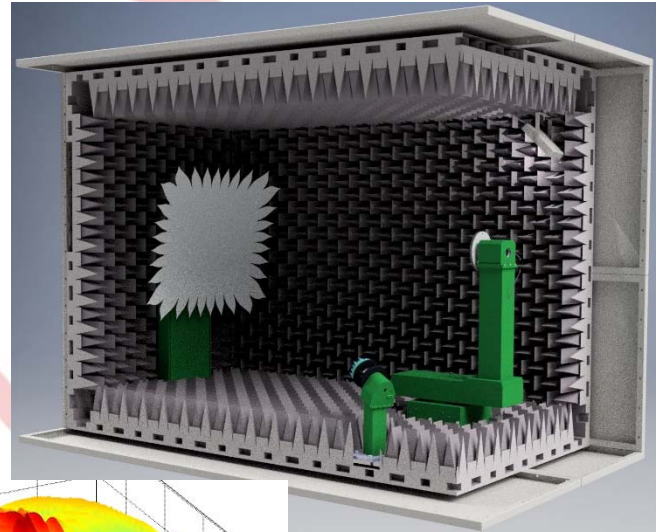
H285 – Compact Antenna Test Range

Indirect Far Field Test Method – 3GPP-permitted for 5G OTA Testing

3 GHz to 30/40/110 GHz

Main Features

- Dimensions: 2.85 m (L) x 1.95 m (W) x 2.05 m (H)
- Mains power: 100-240 VAC 50-60 Hz
- 5G NR MIMO OTA (FR1+FR2)
- CATR as 3GPP TR38.810 permitted method for 5G OTA Testing
- MIMO Graphic User Interface (GUI) for Windows OS
- Fully automated measurements with control of VNA, CATR and gNodeB
- 30/60 cm quiet zone
- Serrated reflector, lateral feed
- Time-domain measurements
 - Windows, Android, iOS, MacX, Linux, UWP and Tizen UE apps
- Data interface: USB/GPIB-TCP/IP
- RF isolation (shielding): > 80 dB
- Beam-pattern measurements
- Can be upgraded to larger chamber/CATR system
- Cat1/Cat2/Cat3 OTA Testing
- Vendor declaration of antenna size not needed
- DB9/RJ45/FO/USB/Waveguide penetrations (optional)
- AC/DC filters for DUT power supply (optional)



* Small absorbers around positioners and door are removed to aid visual description

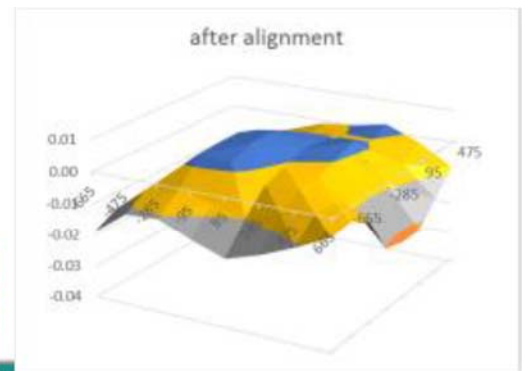
Measurement system

The H285 is a Compact Antenna Test Range in a small anechoic chamber which represents that state-of-the-art in 5G OTA testing. H285 provides for a 30cm quiet zone, 5G DUT positioning with roll over azimuth and roll over elevation with up to 8kg and an outstanding 0.03° accuracy. Capable of testing beamforming, EIRP, TRP, RSE, EIS and IBB, it also provides for a variety of probes and standard gain antennas to cover all your 5G mm-Wave FR2 frequency bands and some of the Sub-6 GHz ones, being the only CATR in the market capable of testing FR1+FR2. With unheard-of reflector-manufacturing accuracies, which reflect into extremely good phase accuracies, the H285 can be connected to a gNodeB emulator for active OTA measurements of 5G devices which sizes up to 30cm and frequencies up to 30 GHz by default. Extensions to a 60cm quiet zone, 40 or 110 GHz are available, and both the chamber and the positioning equipment can be reused in an upgrade for a larger chamber and CATR system. With a variety of Operating Systems at the 5G UE, time-domain uplink and downlink FTP/TCP/UDP Throughput measurements are also readily available.

IFF permitted OTA Test Method as per 3GPP TR 38.810

In accordance to 3GPP TR 37.842

EMITE 5G OTA test systems are now used at major operators and some OEMs (UE and gNB).



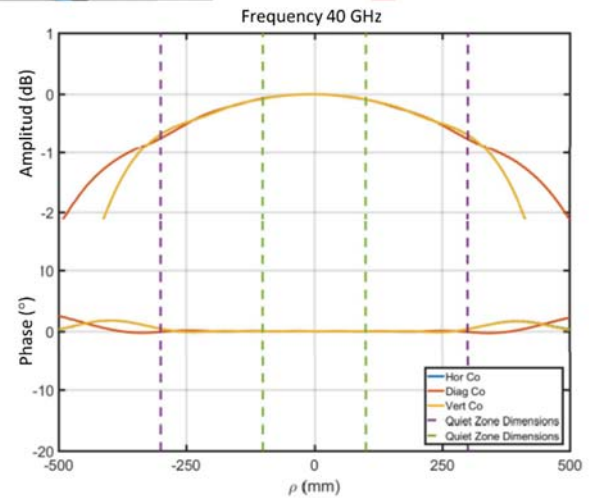
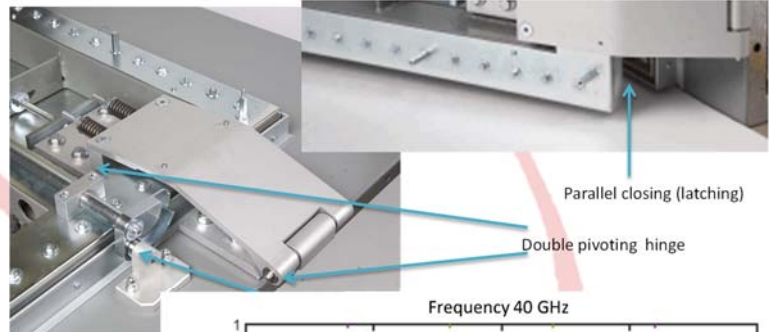
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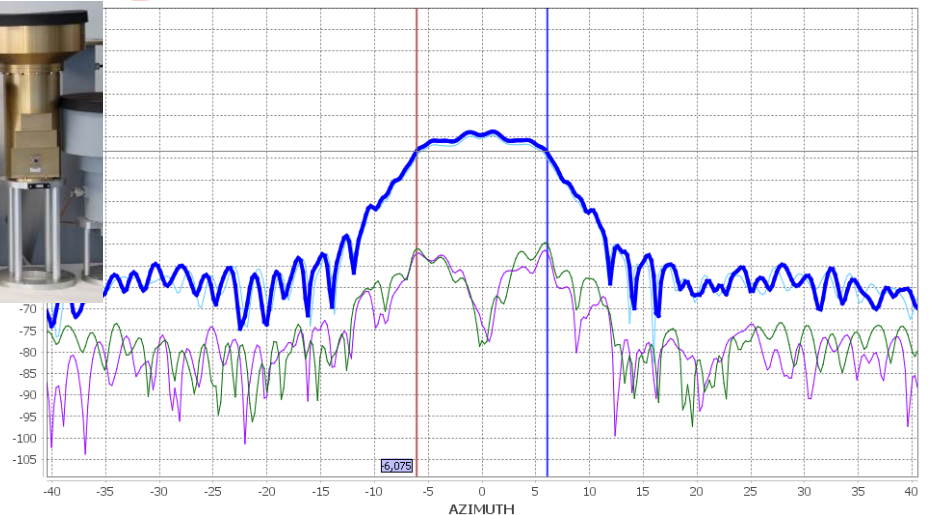
Unique Features – only with EMITE

- Excellent 15 μm peak-to-peak reflector roughness for high quiet zone phase accuracy
- 30cm QZ with $<0.5\text{dB}/\pm 2^\circ$ amplitude/phase ripple
- 60cm QZ with $<0.8\text{dB}/\pm 4^\circ$ amplitude/phase ripple¹
- Carbon-loaded polystyrene absorbers, extreme durability
 - No dropping tips
 - Non-hygroscopic
 - Compliant with fire retardant standard ISO 11925-2 class E
- Roll over azimuth and elevation over azimuth
 - Max load 8 kg
- 600 mm x 900 mm door with double-pivoting hinges
- Dual-polarized circular corrugated probe, unique bandwidth
- Typical Accuracies 0.03°
- Standard Backlash 1 to 6 arc min
- Convertible into Planar Near Field (PNF) or Spherical Near Field (SNF)



Additional deliveries to customer's specifications

- 17025-Accredited calibration (optional)
- Programming drivers of user-selected auxiliary gNB test equipment
- Installation of hardware and software
- Full day course to operating personnel
- Wide variety of support and maintenance options.



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Data Sheet EMITE Ing H285 2018.9 ENG.
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The products are patent protected



¹ $\pm 7^\circ$ phase ripple from 3 to 4 GHz with 60cm QZ

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