

ANTENNA PERFORMANCE (OTA) TESTING

FAST, KNOWLEDGEABLE RESEARCH & DEVELOPMENT

THE CHALLENGE

OTA (Over-The-Air) antenna performance testing is of particular importance in verifying a satisfactory user experience. It has an immense impact on the overall performance of a wireless communications end-product. Never mind how well all the other features are functioning, the moment the antenna is not working satisfactorily, everything else is secondary. Antenna performance is influenced by different product requirements, applications, size of housing, materials, bandwidths, frequencies etc. meaning specialist knowledge is critical to continued success.

RF engineering specialism is hard to come by, challenging to learn and where the results can change dramatically with seemingly small changes. Test failure is a giant set back for any device trying to gain acceptance. Best case scenario, you are stuck in the test lab waiting for a software update, worst case, you must go back for a complete redesign.



Move Forward with Confidence

**BUREAU
VERITAS**

OUR SOLUTION

SCALE & SPEED

With 5 x ISO 17025 accredited OTA chambers and 1 x R&D reverb chamber located in the US, and many more worldwide, Bureau Veritas can get your test antenna performance report to you in a timely manner.

FAST MARKET ACCESS

Avoid failures and delays to market acceptance with the services from Bureau Veritas. Our RF specialists and test environments get actionable test result data to give you the confidence you need to go through testing quickly and without delay.

DESIGN FOR COMPLIANCE

Antenna Performance services identify problems during the design phase when changes are cheaper to make. Our service helps you understand the performance requirements to find an antenna that meets your needs.

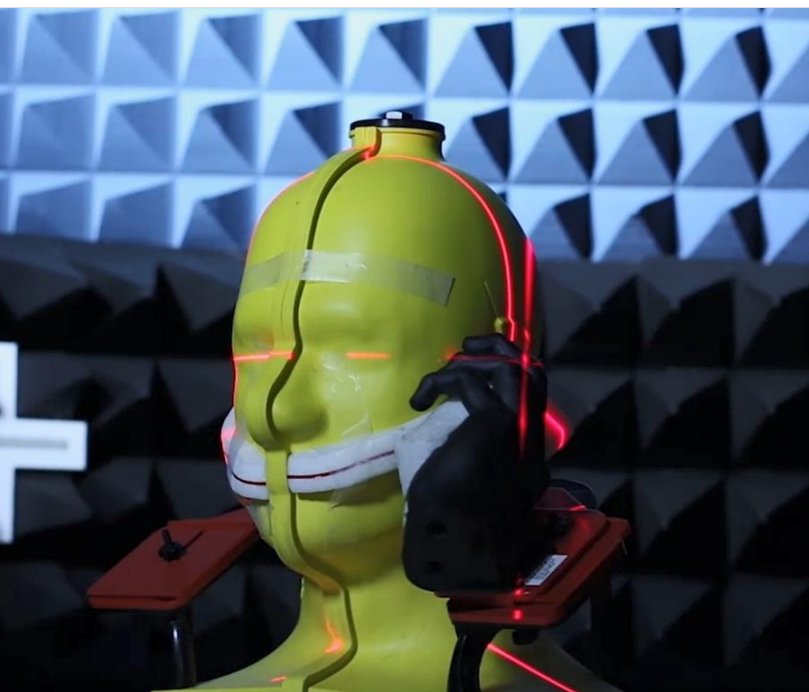
TECHNICAL SPECIALISTS

Our accredited, high-tech laboratories are continuously updated in accordance with the latest Antenna Performance testing requirements. Bureau Veritas supports you in qualifying your wireless product and can help you address the performance impact of accessories such as phone cases.

SERVICE OFFERING

- **Performance Testing:** Against GCF, CTIA, Carrier requirements
- **Benchmark Testing:** Assess product antenna performance with & without accessories (eg, cases)
- **Development Support:** Full technical support including a design review, antenna integration and characterization and a pre-evaluation.
- **Design Review:** An in-depth review includes identification of potential problems and help with improving RF performance at a very early stage.
- **Antenna Integration:** The evaluation of key performance parameters of the antenna and recommendations on how to correctly integrate the antenna into the product.
- **Antenna Characterization:** Comprehensive antenna measurements, our specialists will help you find the right antenna that meets your needs.
- **Pre-Evaluation:** a small set of spot checks to provide confidence before going through full certification.
- **Failure Analysis:** Identify RF problem root causes
- **Change Evaluation:** Identify how changes impact device certification

OTA TESTING IN ACTION



OUR VALUE

- **Network:** Strong Americas Footprint & Global Network
- **Scale:** 1,000+ highly skilled personnel | 400+ test environments worldwide. 200 personnel in USA.
- **Reputation:** 100+ accreditations / recognitions | Competent in all key wireless technologies & regulatory requirements for 200+ territories
- **Segment Leadership:** Address all key technology markets (Electrical/Electronics, Automotive & Wireless) with active participation in all key technical / industry working groups
- **Complete Service:** Conformance, Performance and Regulatory, Smart Payment & Cybersecurity. Fast Access to 200 Countries/Territories