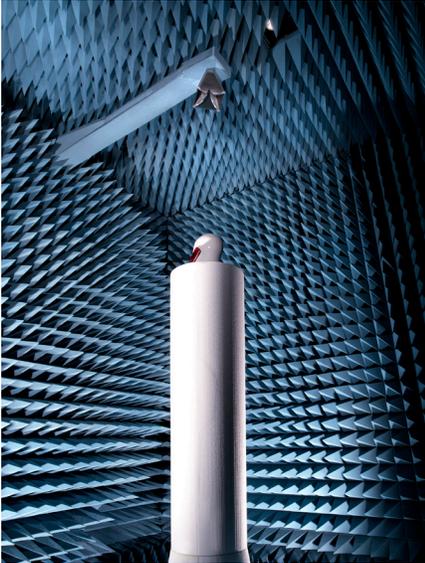


CASE STUDY NEW WIRELESS TEST SYTEM AT TMC BEIJING – BEIJING, CHINA



Wireless devices such as cell phones, wireless enabled PC's and PDA's are becoming an indispensable means of communication. Nowhere is this more evident than in China where cell phone use has been growing by 24% over the past three years. TMC, the prominent authority for providing equipment compliant certification services in the telecommunication industry in China, is an independent test lab for telecommunication equipment certification. TMC's mission includes playing a leading role in developing compliant test standards for telecommunication equipment in China. TMC is also a member of many international standards organizations including ITU, IEC/CISPR, 3GPP/3GPP2, ETSI, Wi-Fi Alliance®, WiMAX Forum®, CTIA - The Wireless Association®, USB, WiMedia, Bluetooth SIG, GCF and PTCRB. It also contributes to the standards development of many international organizations. TMC's staff includes a talented group of engineers whose expertise is well respected in China and internationally. Its test lab enjoys an excellent reputation worldwide for the high quality of its services. When TMC was ready to expand its wireless test and measurement capabilities, ETS-Lindgren provided the solution.

ETS-Lindgren, a US-based company with a manufacturing facility in China, designed, manufactured and installed an Antenna Measurement System, Model AMS-8800, for TMC in Beijing. With automated wireless testing capabilities, the AMS-8800 has made the testing of wireless devices faster, more convenient, and more reliable. Now, TMC can easily meet the growing demand for the testing and certification of wireless devices in China.

AMS-8800 Technical Specifications

Designed for testing various antenna devices and mobile handsets with and without a simulated human head, the AMS-8800 test system is compliant to the software and hardware requirements as defined in the CTIA - The Wireless Association Test Plan for Mobile Station Over The Air (OTA) Performance, Revision 2.2.1 for testing mobile handsets.

Notable features of the AMS-8800 test chamber at TMC include:

- High-performance RF shielded, rectangular anechoic chamber, with nominal interior shield dimensions of 16 ft long (4.88 m) x 16 ft wide (4.88 m) x 16 ft high (4.88 m)
- Positioning system with turntable (for phi axis rotation) and cross arm (for theta axis rotation) EMQuest™ EMQ-100 advanced pattern measurement software with data acquisition and analysis, including full post processing capabilities, to derive Effective Isotropic Radiated Power (EIRP), Total Radiated Power (TRP) and Near-Horizon Partial Radiated Power (NHPRP) as specified in the WiMAX Forum Radiated Performance Test (RPT) Requirements.

Experts in Wireless Testing

ETS-Lindgren has long been at the forefront of wireless testing with numerous "industry firsts" to its credit, including:

- Design and installation of the world's first WiMAX Forum Designated Certification Laboratory for performing WiMAX RPT testing
- Design and installation of the world's first CTIA Authorized Test Lab (CATL) approved for performing CTIA Part 2 Over The Air (OTA) performance testing

Today, an estimated 75% or more of the over-the-air radiated performance test systems used globally by authorized test labs for the CTIA, Wi-Fi Alliance, and WiMAX Forum certification programs have been provided by ETS-Lindgren.

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ETS-Lindgren's goal is to maintain its leadership expertise in the test and measurement of wireless devices. To meet this goal, the company will continue its collaboration with and technical contributions to the wireless industry organizations leading the technology and standards development for the testing of wireless devices, including CTIA - The Wireless Association, the WiMAX Forum, and the Wi-Fi Alliance. With manufacturing and customer service offices in Europe, Asia and the US, ETS-Lindgren is committed to providing state-of-the-art, turnkey wireless test solutions worldwide.

About ETS-Lindgren

ETS-Lindgren is an international manufacturer of components and systems that measure, shield, and control electromagnetic and acoustic energy. The company's products are used for electromagnetic compatibility (EMC), microwave and wireless testing, electromagnetic field (EMF) measurement, radio frequency (RF) personal safety monitoring, magnetic resonance imaging (MRI), and control of acoustic environments. Headquartered in Cedar Park, Texas, ETS-Lindgren has manufacturing facilities in North America, Europe, and Asia. Additional information about ETS-Lindgren is available at www.ets-lindgren.com. Additional information about ETS-Lindgren's parent company ESCO and its subsidiaries is available at www.escotechnologies.com.