



# Calibration Services for Measurement Equipment

Accredited calibration laboratory for measurement equipment under ISO/IEC 17025

UL Japan is accredited by the American Association for Laboratory Accreditation (A2LA) as a testing and calibration laboratory under the ISO/IEC 17025 international standard. We regularly confirm our calibration quality by conducting inter-laboratory comparisons with other renowned accredited calibration laboratories.

As equipment calibration according to ISO/IEC 17025 becomes an increasing focus of attention, we can be your best choice for calibration of your EMC measurement equipment.

UL Japan can propose high-quality calibration solution needed for your EMC measurement equipment.

## EMC Measurement Equipment Calibration

UL Japan employs the following calibration equipment to provide calibration services to a wide variety of devices.



<b>Calibration equipment</b>	<ul style="list-style-type: none"> <li>: Calibration Room (with Shielded Room)</li> <li>Std. Antenna Calibration Site</li> <li>Anechoic Chamber</li> <li>TEM-Cell / G-TEM Cell</li> </ul>
<b>Equipment for calibration</b>	<ul style="list-style-type: none"> <li>: Antenna               <ul style="list-style-type: none"> <li>Dipole, Broad Band Antenna</li> <li>Rod Antenna, Loop Antenna</li> </ul> </li> <li>: Large Loop Antenna</li> <li>: Spectrum Analyzer</li> <li>: EMI Test Receiver</li> <li>: Signal Generator</li> <li>: Function Generator</li> <li>: Power Meter/Sensor</li> <li>: LISN, AMN, AN</li> <li>: ISN</li> <li>: CDNs / Injection Clamp</li> <li>: (150 to 50)<math>\Omega</math>Adapter</li> <li>: Current Probe</li> <li>: BCI Probe</li> <li>: Directional Coupler</li> <li>: Loop Coil / Sensor</li> <li>: ESD Simulator</li> <li>: EFT/Burst Simulator</li> <li>: Capacitive Coupling Clamp</li> <li>: Surge Simulator</li> <li>: Voltage Dip Simulator</li> <li>: Magnetic Field Meter</li> <li>: E-Field Probe</li> <li>: Pre-Amplifier</li> <li>: Coaxial Cable / Attenuator</li> <li>: VSWR</li> <li>: Impedance</li> </ul>





## Calibration for Antennas

We provide antenna calibration services according to following requirements for commercial EMC testing specified in ANSI C63.5-2006 ;

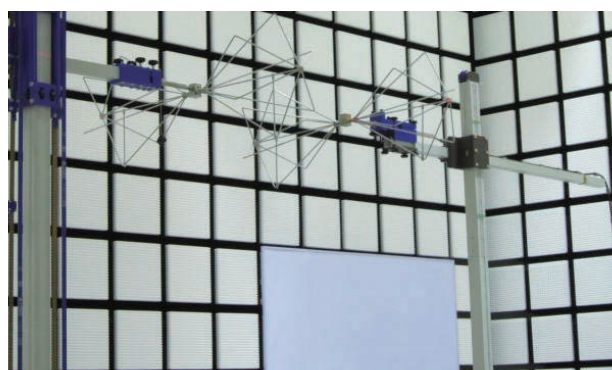
1. Standard site method
2. Three-antenna method
3. The substitution method that uses an ETS-Lindgren Roberts Antenna as standard antenna.

We conduct calibration in a Standard Antenna Calibration Site (SACS).

We provide the antenna calibration services specified in SAE-ARP 958, Rev. D that are required for in-vehicle component testing.

UL Japan is recognized as an accredited EMC laboratory by a wide range of automobile manufacturers in Japan and other countries. By using those antennas we calibrated, you can obtain the same level of testing quality as our laboratory.

Calibration is conducted in a SACS or an anechoic chamber.



## Calibration for Magnetic Field Meters

Our standard Magnetic field meters are calibrated to international standard at PTB (Physikalisch-Technische Bundesanstalt). We are providing this calibration service by the substitution method.

(Reference standard: IEC 61786, Annex A)



## Calibration for Electric Field Probes

Our standard electric field probes are calibrated to international standard at PTB (Physikalisch-Technische Bundesanstalt). We are providing this calibration service by the substitution method.

(Reference standard: IEEE Std 1309 Transfer Method)

- We conduct calibration with our minimum uncertainty value.
- Please contact us for calibration fees.
- For more details, please do not hesitate to consult with us.



## Contact for Inquiries

[ul.com/jp](http://ul.com/jp)

Consumer Technology Division, UL Japan, Inc.

E-mail: [emc.jp@ul.com](mailto:emc.jp@ul.com)

1614, Mushihata, Katori-shi, Chiba 289-0341, Japan

Tel: +81 478-88-6500 Fax: +81 478-82-3373