

SAR TESTING

RF ENERGY EXPOSURE ASSESSMENT

THE CHALLENGE

Most portable devices will be used within 20cm of the body, head, ankle or wrist. At this proximity, the user is exposed to energy emitted by radio waves — how wireless devices communicate. Exposure to these fields can be of concern.

SAR (Specific Absorption Rate) measures the quantity of radiated RF energy a human body is exposed to when for example using a mobile phone. With the help of SAR testing, it is possible to evaluate the relative safety of low-power transmitters that are used within close proximity to the human body.

- In the United States the FCC requires that phones sold have a SAR level at or below 1.6 watts per kilogram (W/kg) taken over the volume containing a mass of 1 gram of tissue that is absorbing the most signal.
- In the European Union CENELEC specify SAR limits and follow IEC standards. For mobile phones, and other such hand-held devices, the SAR limit is 2 W/kg averaged over the 10 g of tissue absorbing the most signal (IEC 62209-1).



Move Forward with Confidence

**BUREAU
VERITAS**

OUR SOLUTION

SCALE & SPEED

With 2 x SAR test facilities in USA and systems throughout Asia, Bureau Veritas can get your SAR test 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 exposure 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

Pre-Compliance SAR testing helps identify problems during the design phase when changes are cheaper to make. Our service helps you understand the SAR performance requirements before you undergo compliance testing.

TECHNICAL SPECIALISTS

Our accredited, high-tech laboratories are continuously updated in accordance with the latest Specific Absorption Rate testing requirements.

SAMPLE TESTING SCOPE

International:

- IEEE 1528:2013
- IEC 62209-1
- IEC 62209-2

North America:

- ANSI C95.1
- FCC OET Bulletin 65
- H46-2/99-273E

Europe:

- EN 50360; EN 50364; EN 62209; EN 62233; EN 62311; EN 62479;

Taiwan:

- CNS 14958-1; CNS 14959

Korea

- RRA Public Notification 2015-23
- MSIP Public Notification 2015-17 & 2015-18

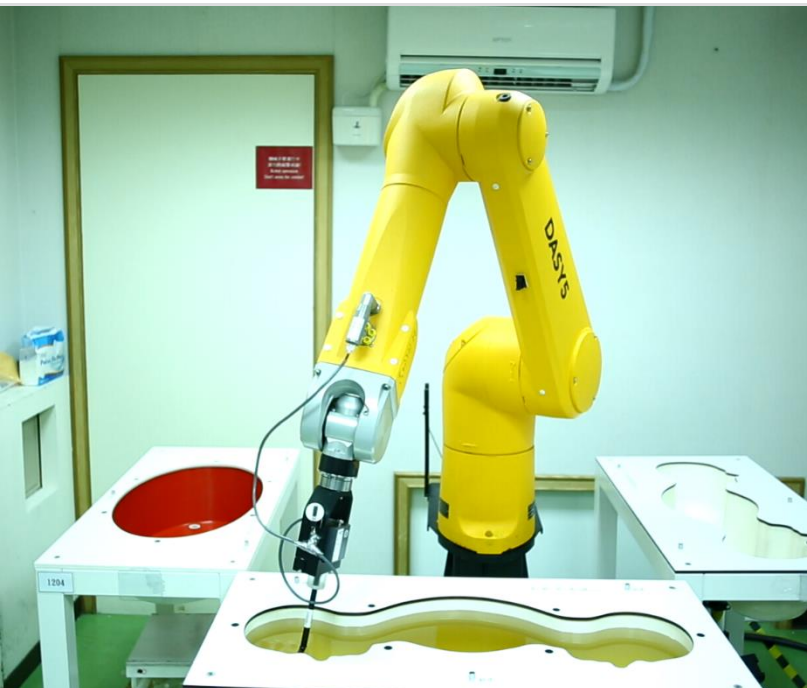
Japan:

- MIC Notification No.324

Australia/New Zealand:

- AS/NZS 2772.2:2011
- NZS 2772.1 (Resolution N 533)

DASY SAR TEST SYSTEM



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