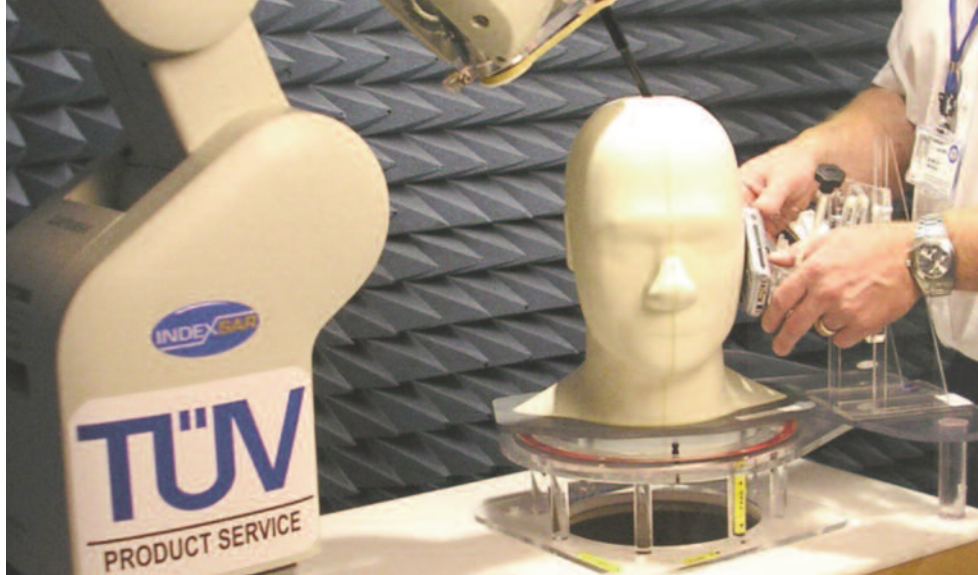




Product Service

Choose certainty.
Add value.



Specific Absorption Rate (SAR) Testing

SAR Testing Service

Complying with continuously changing SAR standards is imperative as a means of meeting legal obligations and addressing both public and industry concerns. TÜV SÜD Product Service and its partner, IndexSAR, are perfectly placed to advise on the latest developments as well as offering a comprehensive fully accredited test service.

SAR Test Services are offered to manufacturers, network operators and other bodies. Confidence, development and conformance testing is carried out to EU (including the new CENELEC EN 62209-1 standard and EN 50361 standard), US, Canadian and Australian standards and specifications. We also track and offer testing to other world-wide test standards as they emerge.

Compliant Head SAR Test Measurement System
Mobile Handset test set-up shown



Test Capability

Test Platform:

Two UKAS accredited SARA2 systems from IndexSAR and one Dasy 4 system from Speag.

Range of frequencies:

450 MHz to 5.8 GHz

Typical product types:

- Mobile phones (*All frequency bands including 2G, 3G & LTE*)
- Laptops
- Micro Base stations
- Pico Base stations
- Femto Cell Base stations
- Body worn belt packs
- PDAs
- Body worn printers
- PTT radios
- Antennas (*single and multi-band*)
- Cordless telephones
- VOIP

Our Promise to you

- Reports issued upon completion of test if required
- Two UKAS accredited (No. 0141 Group) SAR test Platforms available
- Flexible working
- LEAN working approach

TÜV SÜD Product Service Ltd
TÜV SÜD Group

TÜV®



Product Service

www.tuvps.co.uk

Typical Test Standards

USA	<ul style="list-style-type: none"> • Federal Communications Commission, Code of Federal Regulations, Title 47 (CFR47), Vol. 1, Chapter 1, Part 2 (§2.1091 and §2.1093). • OET Bulletin 65 Supplement C (Edition 97-01): Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields.
CANADA	<ul style="list-style-type: none"> • RSS-102 Issue 4 (2010-03), including update 2010-12: Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands).
EUROPE	<ul style="list-style-type: none"> • BS EN 50361:2001, Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz). • BS EN 50385:2002, Product standard to demonstrate the compliances of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110 MHz – 40 GHz) — General Public • EN 50371:2002, Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz – 300 GHz) — General public • EN 62209 -1 Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)
AUSTRALIA	<ul style="list-style-type: none"> • ACA - Radiocommunications (Electromagnetic Radiation - Human Exposure) Standard – 2003.
INTERNATIONAL	<ul style="list-style-type: none"> • IEC 62209 -1 Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)

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