The Radio Frequency Test Laboratory (RFTL) is prepared for conformity tests of radio equipment. As the laboratory work is based on MSZ EN ISO/IEC 17025: 2005 standard.

The RFTL is accredited by the Hungarian National Accreditation Body Certificate number of accreditation: NAT-1-1410/2008 valid til 2012.


Main equipment of the Radio Frequency Test Laboratory

- **Full Anechoic Chamber** delivered by Frankonia GmbH, validated by ARC Seibersdorf Research GmbH)
  - Room size: 10.2m x 6m x 4.6m (LxWxH without absorbers)
  - Frequency band: 30 MHz...40 GHz
  - Absorbers: ferrite tiles + FrankoSorb 400 foam absorber
  - Test volume: ø1.2m x 1m cylinder
  - NSA deviation: less then ±4 dB
  - Measurement distance: 3m
  - Reference antennas: from 26 MHz to 40 GHz (ARC Seibersdorf, Lindgren)
  - Turntable
  - Video + audio system
- **Spectrum analyzer**: 3 kHz...40 GHz (Agilent)
- **Signal generator**: 1 Hz...40 GHz (Agilent)
- **Network Analyzer**: 300 kHz...8.5 GHz
- **Power meter with different sensors**: 9 kHz...1.50 GHz (Agilent)
- **Climatic Chamber**
  - Capacity: 336 litre
  - Temperature: -40°C...180 °C
  - Humidity control
- **Free space test site**
  - Frequency band: 9 kHz...30 MHz
  - Measuring distance: 10m (or 3m)
  - Calibrated measuring antenna + amplifier: 9 kHz...30 MHz (Lindgren)
  - Portable spectrum analyzer: 3 KHz...13 GHz (Agilent)

Additional measuring equipment

- 500 MHz digital oscilloscope
- Frequency meter
• GPS frequency reference
• RF generator with digital modulations
• 1GHz power amplifier 30 W
• 3 GHz power amplifier 15 W
• GTEM cell

The Radio Frequency Test Laboratory is accredited and notified for the following standards:

• MSZ EN 300 086-2:2001  (Analogue radio equipment)
• MSZ EN 300 135-2:2001  (CB radio)
• MSZ EN 300 220-3:2001  (25 MHz - 1000 MHz SRD devices)
• MSZ EN 300 296-2:2001  (Analogue radio equipment with integral antenna)
• MSZ EN 300 328:2003  (Data transmission equipment in the 2.4 GHz ISM band)
• MSZ EN 300 330-2:2001  (9kHz - 30 MHz SRD devices)
• MSZ EN 300 422-2:2001  (25 MHz - 3 GHz wireless microphones)
• MSZ EN 300 440-2:2002  (1 GHz - 40 GHz radio equipment)
• MSZ EN 301 783-2:2001  (Amateur radio)
• MSZ EN 301 893:2003 2  (5 GHz RLAN)

The Laboratory is ready to make measurements on demands of the customers as well.

Our plans are to equip the laboratory (by the end of 2006) for the EMC measurements, like:

• EN 301 489-x (EMC for radio equipment)
• EN 55 014 (EMC for household appliances)

Technical Contacts

• Mr. István DROTÁR, Head of Laboratry (phone: +36 96 613-693)
• Dr. András FEHÉR PhD, Laboratory Quality Controll Manager (mobile: +36 30 54-60-600)

To contact us

Our Test Laboratory is located in the Campus of Széchenyi István University, Győr in building of Labs, next to the City-University Sporthall.

• Address: Egyetem tér 1., H-9026 Győr, Hungary
• Post address: H-9007 Győr 7, Pf. 701.
• Phone: +36 96 613-693
• Fax: +36 96 613-694
• web: http://rf.sze.hu
• E-mail: rf (@) sze.hu