



OVERVIEW OF SERVICES

Electromagnetic Compatibility (EMC)

- EMC-testing for CE-Conformity and CB-Scheme (IECEE)
- Tests and Technical Service for the Federal Motor Transport Authority (KBA) according to the Automotive Directive
- Measurements for the automotive sector according to specific manufacturer standards
- Measurements in the course of development and modification services
- Measurements procedures according to RAL label (Blue Angel)
- On site measurement of machines and fixed equipment
- 10m measuring distance

Certification

- Notified Body according to RED and Machinery Directive
- TCB Certification Body for the U.S.A. and FCB Certification Body for Canada
- Approval service for the U.S.A. and Canada in cooperation with MET Laboratories (NRTL)
- Recognized Certification Body for granting GS-Mark (ZLS)
- International approval service
- Recognized National Certification Body (NCB) within the IECEE CB-Scheme
- RED EU Type examination

Radio Technology

- Bluetooth® (BQTF & BQE)
- GSM / GPRS / EGPRS / UMTS / WCDMA / LTE
- module integrated devices (PTCRB)
- WLAN / ZigBee / Chirp
- RFID / NFC
- DECT / DECT 6.0 (UPCS)
- SRD / ANT+
- SAR for Europe, U.S.A. and Canada, Australia
- PMR / LMR / Maritime
- OTA / 3D ANTENNA PATTERN

Product Safety

- Safety tests for CE-Conformity, CB-Scheme (IECEE), GS-Mark and BG-Mark (Type Approval)
- Document and construction checks
- Fit-For-Use / Performance tests for consumer products (Quality Label)
- Life time and permanent load tests: electrical and mechanical inspection services (e.g. factory inspections)
- Dust and water density tests up to IP 68
- Climatic tests (humidity and temperature tests from -40°C to 180°C) even for large test items
- Spectrometry (UV, VIS, Light color)
- High-voltage tests, Ground continuity tests (PE)
- Material tests (e.g. glow wire test, needle flame, V-0, V-1, Tracking-Index CTI)

- Photometric measurements (Lumen, Lux)
- Measurements according to the Ecodesign-Directive (energy efficiency measurement)
- PAH-tests (Polycyclic Aromatic Hydrocarbons)
- EMF-measurements (Electro Magnetic Fields)
- Photobiological safety

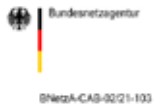
Environmental Simulation

- Temperature variation tests -70°C up to +180°C
- Temperature shock tests -80°C up to +220°C ($\Delta t = 8 \text{ sec}$)
- Temperature stress $\Delta T > 15 \text{ k/min}$
- Under pressure (10 mbar - 1000 mbar) and over pressure tests (1000 mbar - 5000 mbar)
- Decompression tests (1000 mbar - 10 mbar) with temperature and humidity variations
- Vibration tests 5 Hz - 2000 Hz, acceleration up to 100 g
- Operational shock tests (up to 200g)

- Flammability tests (vertical and horizontal)
- Humidity tests with temperature variations (-70°C up to +180°C and 10 % - 98%)
- Salt fog tests
- Salt fog tests in combination with sulphur
- Mixed gas tests
- Tests accredited to RTCA DO-160
- Tests according to aviation requirements e.g. ABD (Airbus), MIL-STD and other manufacturer specifications

Medical Devices

- tests according to Directives 93/42/EWG, 98/79/EG and 90/385/EWG as well as DIN EN ISO/IEC 17025
- EMC and Safety tests for active medical devices according to IEC 60601 (CB-Scheme) e.g. alarms, patient monitoring, hearing aids, home healthcare environment, etc.



About Eurofins

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Accredited test laboratory for

home appliances, power supplies, luminaires, bulbs, entertainment devices, office and IT-equipment, radio and telecommunications devices as well as laboratory and measuring instruments, ECUs and control equipment, power tools, modules, in vitro diagnostics, medical devices (EMC), equipment of automotive and aviation applications (communication, car radio, navigation, data traffic)

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