



Add value.
Inspire trust.

On-site (In-Situ) EMC Testing

One-stop solution for ensuring electromagnetic compatibility of your products

Your challenges

Manufacturers in various industries, such as consumer products, medical devices, industrial machinery, railway, automotive, aerospace and military equipment must ensure that electromagnetic disturbances do not interfere with the function of their products and other equipment in the same environment. The equipment may be too large or immobile to be transported to an accredited laboratory for conventional testing.

What is EMC testing?

Electromagnetic compatibility (EMC) is the ability of equipment or systems to function satisfactorily in their electromagnetic environment without introducing intolerable electromagnetic disturbance to other devices in that environment. EMC testing is a series of tests to ensure the product's electromagnetic compatibility.

Why is On-site EMC testing important for your business?

EMC testing aims to ensure that the equipment is safe to use and that they adhere to current regulations. EMC testing will help companies minimise the possibility that radiated or conducted emissions produced by your equipment interferes with other electronics products in its vicinity. EMC testing helps to ensure that any emission from the device is below the relevant limits defined for that type of equipment. It helps to ensure that your equipment has sufficient immunity against the expected electromagnetic interference in its working environment.

EMC compliance is mandatory in most markets, including Europe, the U.S., China, Korea, Japan, Australia, New Zealand, South Africa, etc. EMC testing is necessary to help your product meet regulatory requirements, improve product performance and reduce the risk of costly non-compliance. Third-party EMC tests and conformity assessments also help to strengthen your competitive position in the market.

How can you prepare for On-site EMC testing?

No special logistic arrangements are required to test your equipment. Our dedicated EMC In-situ team will conduct the test on-site after a prior site inspection, where your equipment is located, at your convenience.

How can we help you?

TÜV SÜD's experts offer comprehensive testing and certification services based on their complete knowledge of EMC legislation, guidelines and standards. We assist you in resolving any EMC regulatory issues, from design concept to final production. Our testing can cover all types of products, from small appliances to large industrial machines.

Our On-site/In-situ EMC services

We provide a one-stop service that covers all your testing and certification needs. Our experts provide project management to ensure that your EMC tests run smoothly. You can choose to have tests performed at our labs, on your premises or anywhere your product is installed.

- EMC Management and Control Plan
- EMC Zone Allocation
- EMC Risk Analysis
- Electromagnetic Signal Site Survey
- EMC Specifications
- EMC Design Review
- Compliance Matrix and Gap Analysis
- On-site Inspections
- Test Plan
- EMC Maintenance Plan
- On-site EMC Measurements
- On-site EMF Measurements
- DC and AC Magnetic Fields Measurements
- Compatibility Test between Rolling Stock and Train Detection System
- EMC Chamber Validation

Your business benefits

- **Save time and money** – by resolving issues of product EMC, safety, quality and usability during the early stages of product development and design. This reduces the costs and delays associated with the modification and redesign of the final product.
- **Minimise risks** – from EMC-related issues and defects before your product enters the market, reducing the possibility of damage to your business reputation.
- **Gain a competitive edge** – with certification that confirms your product is compliant, backed by TÜV SÜD's strong reputation for independence.
- **Benefit from complete solutions** – with support and related testing services from TÜV SÜD at all stages of product development up to mass production.
- **Flexibility** – in-situ testing allows minimum downtime and faster solutions to be performed on-site and assessed.

Why choose TÜV SÜD?

TÜV SÜD is the world's largest independent EMC testing and certification services provider. We provide global coverage with our international network of laboratories and tailor our services to meet your unique local market needs.

Our experts are specialists in testing products in their intended operating environments. Our professional and technically qualified engineers are active in national and international technical committees for safety and EMC. This makes them well-suited to provide you with valuable understanding of the latest standards and regulations to help you keep ahead of the competition.

Related services

TÜV SÜD provides the following related services:

- Electrical safety testing
- Reliability testing
- RoHS testing
- Energy efficiency testing
- REACH directive

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