

EMI/EMC & Electrical Testing



Ensure Performance. Verify Compliance. Reduce Risk.

Dayton T. Brown, Inc. provides comprehensive EMI/EMC and electrical testing services to help manufacturers ensure their products operate reliably in complex electromagnetic environments. From emissions and susceptibility testing to lightning, EMP, TEMPEST, and electrical power testing, DTB helps customers achieve compliance, improve reliability, and reduce risk.

Why DTB?

- MIL-STD-461, RTCA/DO-160 & TEMPEST Expertise
- NSA-Certified TEMPEST Engineers
- On-Site & Laboratory Testing Capabilities
- Large-Scale Anechoic, Reverberation & Shielded Chambers
- One of the Largest Non-Government EMP Test Facilities in the U.S.
- 75+ Years of Testing & Engineering Experience



EMI/EMC Testing at Scale

- Testing from 10 kHz to 40 GHz
- Radiated Susceptibility Fields Exceeding 200 V/m
- NVLAP Accredited Facilities
- Full Aircraft RS105 EMP Testing Capability

Tested to Leading Industry Standards

MIL-STD-461
RTCA/DO-160
TEMPEST Standards
MIL-STD-1399

CISPR
IEC
IEEE
ANSI

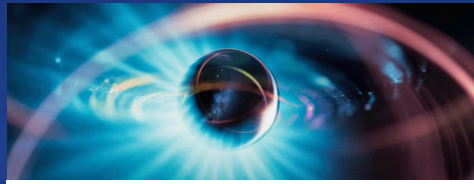
FAA
Boeing
Airbus Requirements

EMI/EMC Testing Capabilities



EMI Testing

Evaluate electromagnetic emissions and identify potential interference issues through conducted emissions, radiated emissions, lightning effects, and electrostatic discharge (ESD) testing.



EMC Testing

Verify equipment performance when exposed to external electromagnetic disturbances through conducted susceptibility, radiated susceptibility, and system-level compatibility testing.



RTCA/DO-160 Testing

Comprehensive avionics testing including emissions, susceptibility, lightning, ESD, power input, and environmental compatibility requirements.



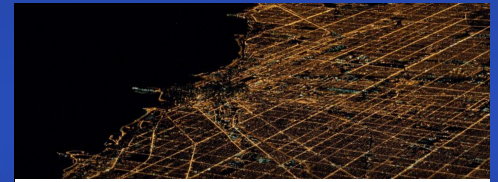
TEMPEST Testing

Protect sensitive information by evaluating unintentional electromagnetic emanations and ensuring compliance with NSA TEMPEST requirements.



EMP & Lightning Testing

Assess equipment resilience against electromagnetic pulse (EMP) events and lightning-induced transients using advanced simulation systems and specialized test facilities.



Electrical Testing

Evaluate power quality, surge immunity, electrostatic discharge, voltage variations, harmonics, transients, and other critical electrical performance requirements.



Positive Train Control (PTC)

Dedicated laboratory and field testing capabilities for railroad communication systems, RF performance, interoperability, latency, throughput, and FRA compliance.



Shielding Effectiveness Testing

Evaluate the shielding performance of rooms, enclosures, cables, connectors, panels, and specialized structures including aircraft and military platforms.



Shipboard Electrical Testing

Comprehensive shipboard power, magnetic field susceptibility, voltage spike, and MIL-STD-1399 compliance testing for naval and maritime applications.

Markets Served

Defense • Aerospace • Space • Commercial Aviation • Transportation
Rail • Telecommunications • Shipboard Systems • Industrial Electronics

Need EMI/EMC or Electrical Testing?

Whether you're validating a new design, preparing for certification, or troubleshooting compliance issues, DTB provides the expertise, facilities, and testing capabilities to help you move forward with confidence.



Contact DTB

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