

Commitment to precise testing, fast turnaround and unmatched customer service has made Environ Laboratories a leader in providing innovative engineering and testing services to both commercial and defense industries since 1961.

People make the difference

Our superior performance comes from our commitment to people and technology. More than half of our professionals hold technical degrees. They work closely with you to develop the scope of the project as well as the test plan. After planning the program, they manage your test and closely monitor progress. In a world of rapid turnover, you'll also appreciate our continuity — nearly all of our technicians have been integral parts of the Environ team for many years.

In addition to having great people, we are committed to using the latest technology, the best equipment and most precise instrumentation. Since we were founded in 1961, our testing laboratory has grown to occupy more than 42,000 square feet.

Quick turnaround; remarkable versatility

Environ ensures precise testing, quick turnaround and complete confidentiality. We also offer an unequalled diversity of testing capabilities.

We routinely perform standard test procedures, but what really sets us apart is that we can do complex and “out of the ordinary” tests as well. Whether it's simulating aircraft engine fires, recreating hurricanes and earthquakes, or conducting an explosion test — we do it all.

This versatility also extends to how we work with our clients. Loading docks are available to handle large equipment, and open space is available to spread out pallets of peripheral equipment needed to support your product during testing.

Accreditation — your assurance of quality

Our competence has been confirmed by our ISO/IEC 17025 accreditation — the international standard for evaluating test laboratories. Environ is regularly audited by the American Association for Laboratory Accreditation (A2LA). We are also accredited by the International Safe Transit Association (ISTA).

Although we exceed industry standards, we continue to work toward enhancing our quality systems and customer service. Over the years we've built a wide-ranging knowledge base through practical test experience. Our clients benefit from that experience through lower prices and more efficient testing.

Industries served include:

- Agriculture
- Aerospace
- Automotive
- Computers
- Construction
- Defense
- Electronics
- Medical
- Telecommunications



We can create a customized test program to address nearly any application, but we've developed particular expertise in the following:

EMI/EMC

- Fully automated testing
- Radiated Susceptibility @ >200 V/m
- Multiple burst / multiple stroke lightning
- HIRF @ >3000 V/m, up to 18 GHz
- Multiple semi-anechoic chambers
- Reverberation chamber
- Power input, capabilities exceeding 300 Amps/300 Volts
- GTEM cell
- FCC/CE Emissions



HIRF/Mode tuned chamber



GTEM cell

Testing to specifications:

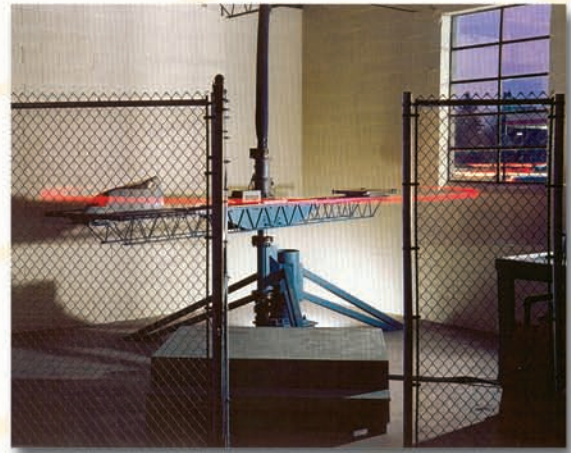
- RTCA/DO-160
- MIL-STD-704
- MIL-STD-461
- SAE J1113
- JDQ 53.2
- ISO 7637 & 11452
- FCC Part 15
- IEC 60601-1-2
- EN 61000-4 & -6 series
- GR-1089-CORE



Zone 4 earthquake test from GR-63-CORE performed on hydraulic shaker

Dynamics

- Vibration, sinusoidal/random, combined with temperature and/or fluid flows
- Shock, classical/SRS/pyrotechnic
- Acceleration
- Transportation simulation
- Temperature with vibration
- In-house fixture design and fabrication
- Earthquake simulation — Zone 4



Aircraft component subjected to acceleration testing



Accelerated Stress Testing

HALT/HASS, triaxial vibration combined with thermal shock, can show you in just hours the most likely failure modes of your product at its initial development stages (HALT), and can provide ongoing quality sampling throughout final manufacturing (HASS).

- HALT (Highly Accelerated Life Testing)
- HASS (Highly Accelerated Stress Screening)
- HAST (Highly Accelerated Stress Testing)
- Fixture design
- Annual training seminars

Environmental Simulation

- Wind and rain
- Ozone
- Fungus
- Altitude
- Explosive decompression
- Extreme depth simulation
- Sand and dust
- Solar radiation
- Humidity
- Temperature
- Temperature shock
- Salt fog with SO₂

Fire and Flammability

- Fire spread and needle flame to GR-63-CORE
- Brush fire to GR-487-CORE or GR-13-CORE
- Flammability to UL94
- Aircraft engine fire simulation
 - AC20-135
 - AS1055D
 - AIR 1377
 - AS4273
 - ISO 2685
- Hose testing, American Bureau of Shipping (ABS)

Chemical/Biological

- Fungus/Mold
 - RTCA/DO-160
 - MIL-STD-810
 - ASTM G21, D470, D518, D120, D1049
 - Building materials, ASTM D3273
 - GR-487-CORE
- Fluid susceptibility
 - RTCA/DO-160

Unique Testing Capabilities

- Hydraulics/fuel systems
 - Fluid flow
 - Pressure impulse
 - Endurance
 - Burst and proof pressure
 - Icing
 - Hydraulic and fuel systems
 - Pneumatics
- Explosive atmosphere
 - MIL-STD-810
 - RTCA/DO-160



Waterproof test performed on electronic enclosure



Multiple walk-in chambers available



Aircraft engine component subjected to fire test