

AEROSPACE & DEFENSE



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

We understand the importance you place on obtaining accurate, repeatable data from every test. We also know that you prefer that all of your tests be performed at one location, by one responsible testing company, with one report format.

To provide this consistency and continuity, and to make testing the experience you expect, Environ has created a true “one stop shop” — for all your testing needs. That means drawing upon everything learned in more than 40 years dealing with sophisticated military and aerospace specifications to ensure that we meet your demands as efficiently and consistently as possible.

Today, we use that accumulated experience and the most modern equipment available to perform all of the physical and electromagnetic testing required by **RTCA/DO-160, MIL-STD-810, MIL-STD-461**, and many other government and commercial specifications. Our experienced engineers can also assist you in developing your test plan and tailoring reports to fit your needs.

In addition to performing all of the routine aerospace and defense tests required by most specifications, Environ has also built a reputation for excellence in performing the less common tests. We are one of only a few laboratories capable of performing fire tests on major jet engine components — tests that require complex flow circuits and data acquisition configured by highly experienced engineers. This advanced technology can also be applied to support the operational parameters of your product during tests such as vibration and EMI.



Multiple anechoic chambers available for EMI testing



environ[®]
LABORATORIES

www.environlab.com



For more than 40 years, we've been accumulating practical test experience and developing cost-efficient ways to meet specifications. Our reputation rides on every test we perform.

All your testing under one 42,000 square foot roof:

- RTCA/DO-160
- MIL-STD-810
- MIL-STD-461

And many other aerospace and defense industry standards including:

- AIRBUS ABD0100.1.2 + ABD0100.1.8
- BOEING D6-16050-4
- MIL-STD-704F

EMI

- Fully automated testing
- RS103 @ > 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

OTHER CAPABILITIES

- Explosive atmosphere
- Fluid susceptibility
- Salt fog
- Fire resistance
- Hydraulic and fuel systems
- HALT/HASS
- FAA DER/DAR support available
- Qualification test procedure creation

ENVIRONMENTAL SIMULATION

- Full range of climatics (temperature/rain/ice/humidity)
- Full range of dynamics (vibration/shock/acceleration)
- Sand and dust
- Fungus
- Altitude
- Explosive decompression

ENVIRON LABORATORIES

- A2LA Accredited to ISO/IEC 17025
- Member of RTCA and actively participates in the ongoing revision of DO-160
- Active in setting standards such as ASTM, DO-160, SAE, & IEEE
- Approved by major engine manufacturers for aircraft engine fire simulation



RTCA/DO-160 explosion test



Aircraft engine component being subjected to fire test

