



Testing Facilities

The Space Science and Technology department at STFC Rutherford Appleton Laboratory has an [Assembly Integration and Verification Facility](#) for testing in the hostile environments faced by the aerospace industry including temperature, pressure and vibration testing.

The [Assembly Integration and Verification Facility](#) offers more than just a testing service; it can provide help to

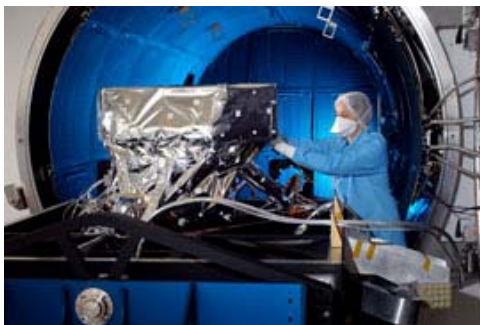
- Define and understand your test specification.
- Assist with the design and manufacture of test fixtures.
- Adapt our facilities to meet your exacting test requirements.
- Ensure a professional and reliable service.
- All testing is performed to ISO 9001 procedures

Pressure & Temperature

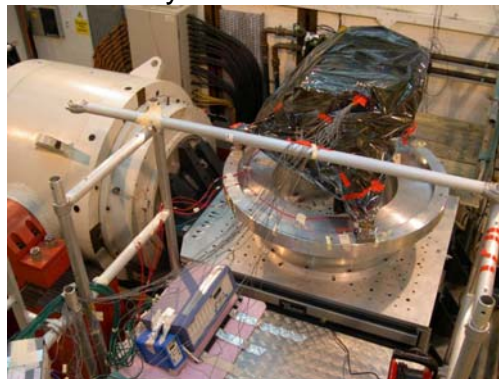
The Space Test Chamber (STC) provides a complete service offering, Vacuum, Vacuum Bakeout, Thermal Vacuum and Thermal Calibration testing, including the capability, using independently thermally controlled plates, of creating different thermal environments within the same chamber. This chamber is located within a large temperature controlled clean room complex at ISO Class 6 (1,000). The STC has a temperature range from -170 to + 150 °C and base pressure of $1E^{-6}$ to $5E^{-8}$ mBar dependent on payload and temperature. The chamber is large and can hold equipment up to 3m diameter and 5m long.

Vibration

The Vibration Facility provides a complete service offering Sine, Random and Shock testing, including the capability, using a vacuum cryostat to perform tests at temperatures down to 4k. The facility is primarily used for the development and qualification testing of spacecraft instruments and sub-systems.



The Space Test Chamber



The Vibration Testing facility

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