

Anechoic Test Facility (ATF)

QinetiQ's Anechoic Test Facility (ATF) is a versatile test environment offering research & development opportunities for military and commercial customers looking for a fast, safe and cost-effective solution. A range of aircraft, vehicles and systems can be accommodated utilising the RF isolation at a secure site. Its novel elliptical design works effectively over a wide range of frequencies, making it possible to meet most customers' specific test requirements.

Scientifically repeatable testing of military and commercial systems is carried out under controlled conditions with minimum set-up times.

The ATF is supported by an active airfield with experienced aircraft servicing engineers and is able to accommodate a range of fighter aircraft and helicopters, including the Typhoon and Merlin.

RF Isolated & Secure

The ATF measures 31m (L) x 17.5m (W) x 7.6m (H) accommodating testing of large or small systems. The building's construction and the filtering of cables entering the building, shields extraneous RF emissions from interfering with test results. The RF isolation inside the ATF improves the accuracy of results compared with an open area test site and facilities work of a sensitive and confidential nature.



RF isolation delivers confidence in scientifically repeatable test results, de-risking projects

Electronic Warfare

A complex wave generator covering 500 MHz to 40 GHz can produce up to 120 pulsed emitters and 2.5 million pulses per second in a repeatable dynamic scenario to test radar warning and electronic countermeasure systems. RF measurement techniques are used to validate scenarios and responses to input signals.

Electromagnetic Compatibility

The large ATF allows for a range of electromagnetic compatibility testing, for emissions, susceptibility and interoperability. Greater accuracy of results is achieved by utilising the ATF's isolation and shielding properties

Military and Commercial Applications

Some examples of typical capabilities are:

- EW systems testing
- Investigations into the Interoperability of all equipment fitted to a single platform
- Electromagnetic Compatibility (EMC) testing to investigate manifestations of stray RF fields
- Sensitivity measurements utilising the ATF's 100dB isolation from the external RF environment
- Mobile complex signal generation of EW signals at the customer's location
- GPS systems testing and research
- RF emissions measurements

Further Capabilities

- Large, RF isolated, secure and versatile
- Safety interlocks on all access doors
- Adjacent control cabin with intercom and CCTV monitoring
- Fume extraction
- Antechamber for preparation
- Penetration panels for cable routing
- RF filters on all electrical cables entering building

Filtered electrical supplies available as follows:

- 200/115 V 400 Hz, 3 Phase up to 90 KVA
- 28V DC @ 10 KW
- Standard domestic mains @ 16 kW

For further information please contact:

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Rapid set up and adjustment times offers customers cost and time savings