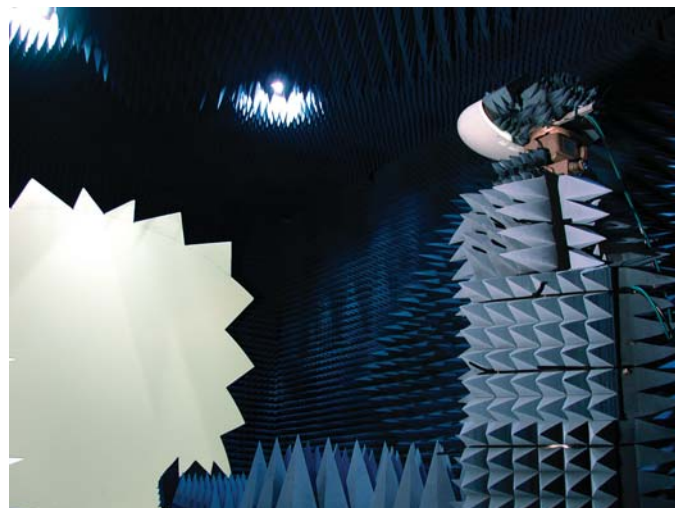


## MI Technologies' Testing Services

Leverage MI Technologies' 50 years of experience in the antenna and radome test business. Our test and measurement facilities, coupled with our highly experienced Engineering staff, are available now to support your test and measurement requirements.

- *Need range testing, but lack the staff and facilities?*
- *Already have a range, but can't keep up with heavy throughput demand?*
- *Planning to relocate your range and need a stand-in range?*
- *Have infrequent test requirements that do not justify the expense of maintaining your own dedicated test facility?*

Whatever your individual range test challenges, MI Technologies is ready to meet your needs!



## Make our range - your range!

When you use MI Technologies' test services, you have total flexibility in the selection of facility configuration, equipment, level of support provided and test planning.

### **Facility Selection**

Our facility consists of two anechoic chambers. The large chamber is a compact range that can also be used for free space far-field measurements. The small anechoic chamber has a near-field scanner and can be configured for far-field measurements in the higher frequency bands.

### **Equipment Selection**

As the leader in the industry, MI Technologies is proud to maintain the highest quality, state-of-the-art microwave test and measurement equipment available to all users, including:

- A fully automated test and measurement system controlled from an MI-3000 Data Acquisition and Analysis Workstation

- A manual test and measurement system that can be configured to address specific needs
- A full suite of RF and microwave signal sources, receivers, mixers, multipliers, positioners, position controllers, absorber, calibration standards and cables
- A fully stocked machine shop for fixture modification or manufacturing
- Custom cable assemblies or control elements can be created with the assistance of our engineering and electronics manufacturing facility as required
- All equipment is fully calibrated and traceable to NIST standards

### **Level of Support**

MI Technologies offers broad levels of testing support that can be tailored to your specific needs.

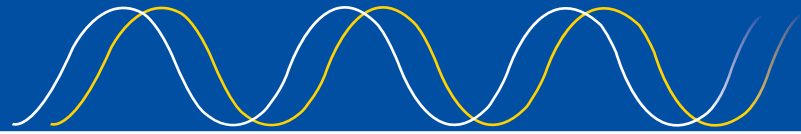
- **Fully Supported Testing**  
MI Technologies completely defines the test plan, performs the testing and reports findings with analysis as specified by the customer.
- **Limited Support Testing**  
The customer provides the test plan and performs on-site direction of the tests, while MI Technologies provides the test range, test system operator and resulting test data.

### **Testing Volume**

Our full-service range can support a single test, a limited run of test items, or a constant rate of test throughput to support your production requirements.



1-800-854-3660  
www.mi-technologies.com



## *Characterized and Calibrated*

We calibrate our instrumentation to NIST standards, so you can be confident in the accuracy of tests performed at our facility. Periodically, we conduct a range probe using a phase/amplitude probe system to ensure electromagnetic quality in the frequency bands you specify.

## Test Objective Selection

- Prototype testing
- Design verification testing
- Full product testing
- Characterization and antenna calibration
- Manufacturing quality evaluation
- Component diagnostics

## Test Item Selection

- Radomes
- Antenna Elements
- Panel Antennas
- Grid Antennas
- Phased Arrays
- Multi-beam Antennas
- Embedded Antennas
- Reflectors
- System Characterizations

For more information, contact MI Technologies' Customer Support Service Center at 1-800-854-3660

## *Range Specifications*

<b>Large Anechoic Chamber:</b>	24 ft wide x 40 ft deep x 25 ft tall with adjacent control room
Frequency range:	2 to 94 GHz
Data acquisition:	Fully-automated system for all range configurations, controlled by an MI-3000 Data Acquisition and Analysis Workstation running the latest MI software
Configuration options:	Free-space range, MI-5751 compact range, or MI-6920-3X3 planar near-field scanner with 3 ft x 3 ft scan plane, Cylindrical Near Field and Spherical Near Field
Compact range configuration:	Cylindrical quiet zone (4 ft diameter and 4 ft length) with an amplitude taper of 0.5 dB or less Total phase variation within the quiet zone of less than 10 degrees Test zone expandable to 6 ft horizontally x 5 ft vertically with up to 1.0 dB amplitude taper Conditions vary near low end of the operating frequency band
AUT Positioning Equipment:	Standard systems provide four axes of AUT control in roll over azimuth over elevation over slide Wide variety of positioning requirements through use of alternate available positioning system components and fixtures
AUT Maximum Test loads:	Up to 3000 lbs
<b>Small Anechoic Chamber:</b>	15 ft wide x 20 ft deep x 15 ft tall with absorber, adjacent to control room Equipped for planar, cylindrical or spherical near-field measurements
Measurements:	The MI-3000 can acquire most standard range parameters such as amplitude, phase, polarization and gain measurements System parameters such as transmitter EIRP or receiver sensitivity can be measured or computed in post processing
Data Output:	A generous set of optional formats for output data reports, including ASCII test files and single and multi-curve rectangular, polar, isometrics and contour plots
Additional Options:	<ul style="list-style-type: none"><li>• Radome Testing</li><li>• Advanced Antenna Pattern Analysis Correction Software Available</li><li>• Planar, Cylindrical and Spherical Near-Field Measurements</li><li>• Effective Isotropic Radiated Power (EIRP) Testing</li><li>• Gain Calibrations by the Three Antenna Method</li><li>• Component Characterizations</li></ul>
Lead time:	Call for availability - we can adjust schedules to meet your needs!

