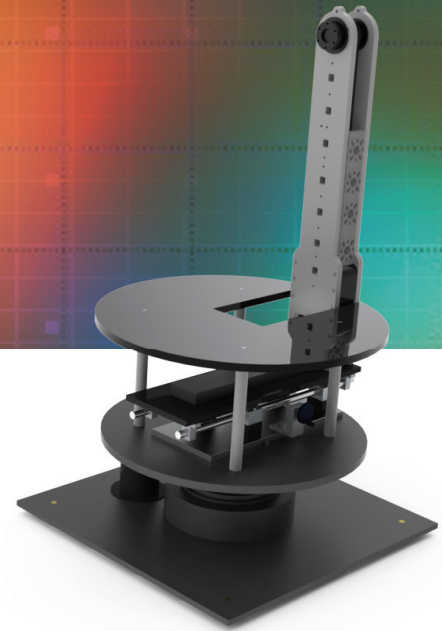


Low Cost Antenna Test

Agilent Technologies
and Eretec Inc.



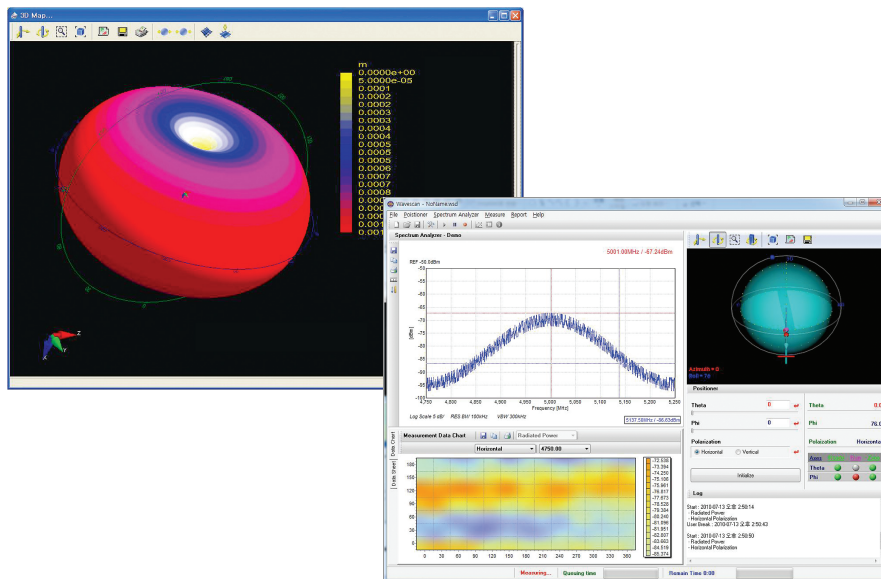
Reduce the cost of antenna test for your mobile devices

Accurate antenna testing is essential in order to ensure that your mobile devices conform to standards such as the CTIA Test Plan for Mobile Stations. To achieve a comprehensive antenna test for a mobile device requires accurate antenna measurements be made under controlled environmental conditions while the device is mounted in different positions. The provision and control of such positioning equipment within an anechoic chamber can be costly. A new system from Eretec aims to reduce this cost.

The new antenna test system from Eretec comprises a number of elements. A multi-axis positioner allows Over-the-Air (OTA) three-dimensional antenna measurement of mobile devices by controlling both the azimuth and polarization of the device. It includes a low reflective insulator to minimize the RF interference from the transmit antenna and allows the simple installation of a hand phantom to simulate the effect of holding the device. The positioner can be configured in a variety of sizes to suit the chamber dimensions

and is supplied with a motion controller that allows azimuth and polarization to be varied from 0 to 360°, with an accuracy of 0.1°.

The WaveScan antenna test software conforms to a number of standards including the CTIA Test Plan for Mobile



- **Low-cost antenna test for mobile devices**
- **Multi-axis positioner for OTA antenna test**
- **Azimuth and polarization from 0 to 360°**
- **Allows installation of hand phantom**
- **Antenna test software conforms to CTIA standard**
- **Simple graphical interface for 2D and 3D visualization**
- **Used with Agilent network analyzer, spectrum analyzer, signal generator**
- **Accurate mobile device antenna test at lower cost**



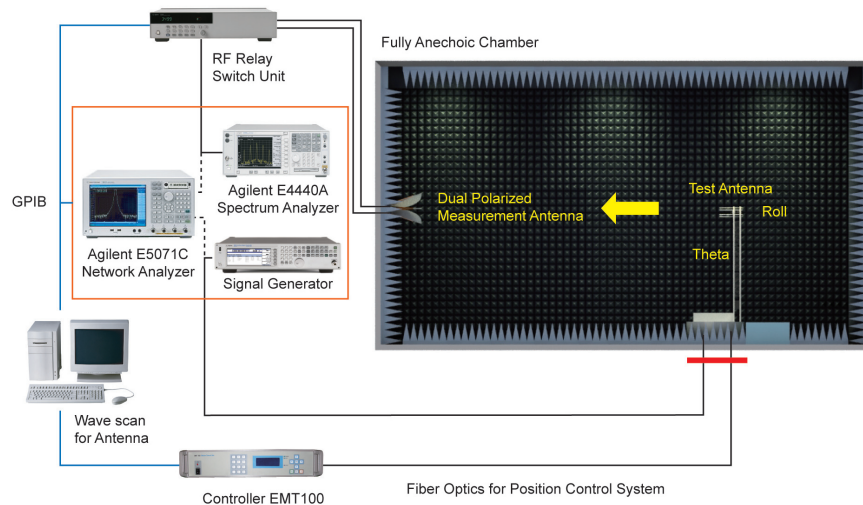
Low Cost Antenna Test

Stations OTA specification. It supports the measurement of radiated power, receiver performance, passive gain & active sensitivity and provides analysis of multi-frequency and multi-radiated pattern characteristics. The software includes a powerful and easy user interface, auto or manual calibration facilities and the ability to produce 2D and 3D data charts.

When integrated with Agilent test equipment and an anechoic chamber the Eretec positioner and measurement software provides a comprehensive

and affordable solution for testing the antennas of mobile devices. A typical measurement system would include an Agilent E5071C network analyzer, E4440A spectrum analyzer and N5181A/N5182A MXG signal generator.

By combining the measurement performance of Agilent's instrumentation with Eretec's software and hardware you can test the antennas of your mobile devices at lower cost without compromising accuracy.



Antenna measurement system diagram

System Components

Agilent Technologies

E5071C	ENA network analyzer
E4440A	PSA spectrum analyzer
N5181A/N5182A	MXG signal generator

Eretec Inc.

WaveScan antenna measurement software
Motion multi-axis positioner
EMP100 motion position controller

To learn how this solution can address your specific needs please contact Agilent's solutions partner, Eretec Inc.

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Eretec Inc. supplies test facilities, measurement systems and software worldwide including EMC measurement chambers, antenna (cell phone, radar, aircraft, military, etc.) test chambers, EMC/antenna/transient measurement systems and software, etc.

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