# Model 3500 Wireless Test Lab

## Description

The Model 3500 is a complete automated measurement system designed to meet the requirements of the CTIA Certification Program for Over The Air Performance. Applicable for testing virtually any wireless device, it includes a shielded anechoic chamber, a conical scan distributed-axis positioning system, broadband dual polarized measurement antenna and RF cabling. The Model 3500 is designed specifically to meet the expanded requirements of Version 3.0 of the CTIA Test Plan for Mobile Station Over The Air Performance that includes requirements for the MediaFLO, Cell, GPS, PCS and AWS-1 bands.

## Features

- Free Standing Shielded Chamber requiring only 11ft 2in (3.4m) of vertical clearance
- Operating frequency of 700 MHz to 6 GHz
- 20 inch (50cm) Quiet Zone for Large Form Factor Devices
- Meets CTIA Certification Requirements for Version 3.0 of the test plan
- Fast, automated measurements of TIS, TRP, Efficiency and radiation patterns

## Characteristics

| | |
|---|---|
| Frequency Range | 700 MHz to 6 GHz |
| Quiet Zone Size | 12 inches (30 cm) & 20 inches (50cm) |
| Range Length (w/ QR-4 Horn) | 51.25in (130.25cm) |
| Signal Level Ripple | <+/-0.5dB (Typ), +/-1.5dB (Max) |
| Measurement Uncertainty (due to ripple) | 0.35 dB at 95% Confidence (30cm Quiet Zone)<br>0.45 dB @ 95% Confidence (50cm Quiet Zone) |
| Shielding Effectiveness | 70dB Standard, 90dB Optional |
| SAM Phantom Head Orientation | Vertical |
| Maximum SAM Phantom Weight | 30 lbs (14 kg) |

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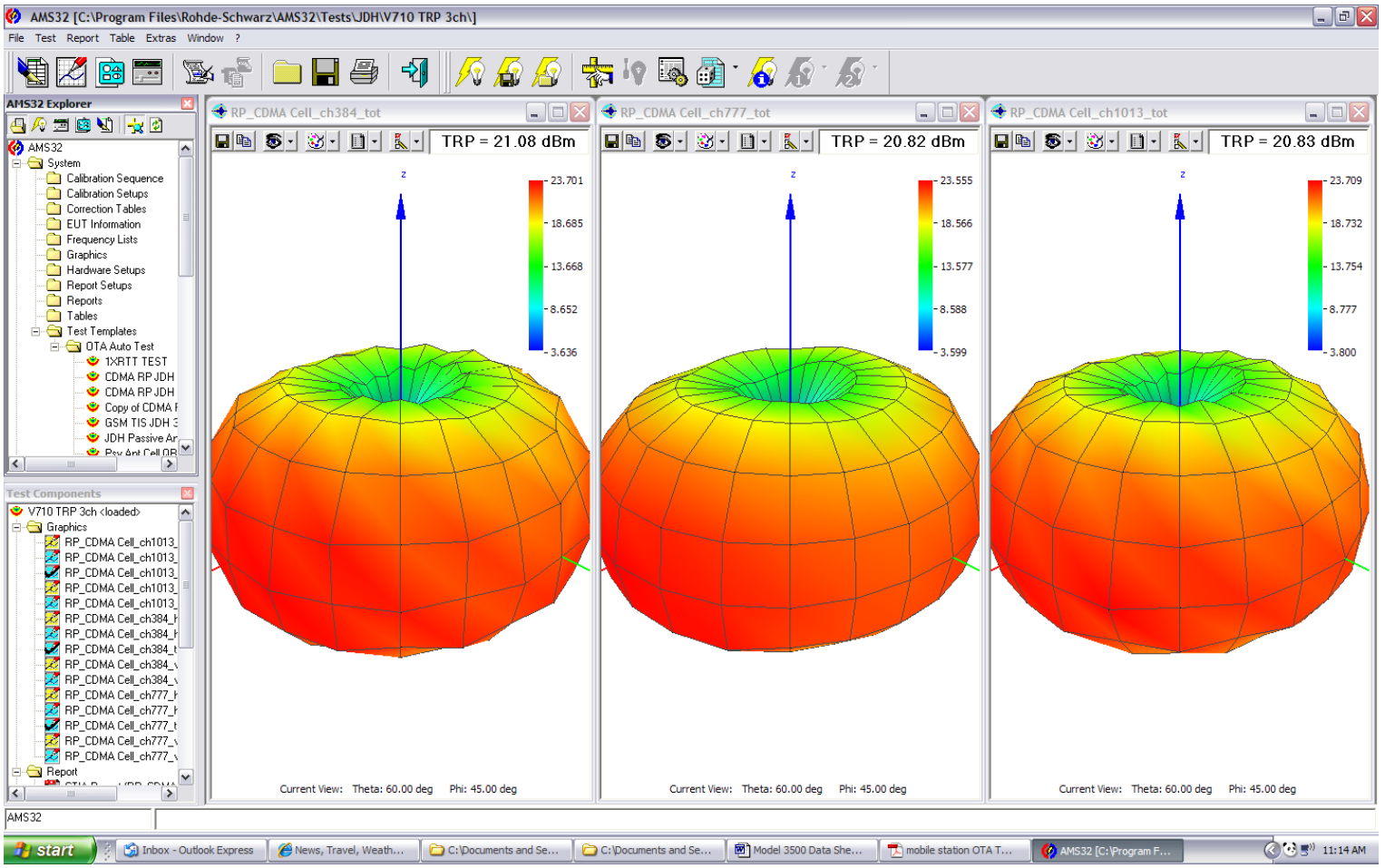


## Rohde & Schwarz AMS32 Software

### Included with the Model 3500

Free standing, shielded anechoic chamber
Conical scan, distributed axis positioning system
Low dielectric DUT Support Structure
QR-4 Measurement Antenna, Dual Polarized 0.7 to 6 GHz
RF Cables
Motion Control Unit
Motor and Limit cables
Fiber Optic Lighting System
Wet pipe sprinkler drop
Vents, 2 each shielded waveguide below cutoff
AC Power Outlet inside chamber
Installation

### Options

90dB Shielding Isolation and formal report
Ripple Test Measurements per the CTIA Test Plan
OTA Measurement Software, Rohde & Schwarz AMS32
Instrumentation
Gain Standard Dipoles
Custom DUT Supports for heavy DUT's
SAM Phantoms
Dual Axis Laser Reference System
Slip Rings for bringing power and control lines to the DUT

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