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JJF 1394-2013

Calibration Specification for Wireless Network Testers

无线路测仪校准规范

(English Translation)

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Introduction

This specification based JJF 1071-2010 "National Calibration Specifications writing rules" and JJF 1059-1999 "test Evaluation and Expression of Uncertainty "preparation, calibration specification Wireless Road Tester include GSM (GlobalSystemof MobileCommunication) wireless channel measuring instrument and CDMA (CodeDivisionMultipleAccess) Wireless Road Measuring instrument.

This specification, emission levels, emission spectrum and calibration method for transmitting modulated reference YDC023-2006 "800MHzCDMA1X Digital Cellular Mobile Telecommunication Network Test Methods. Part 1 Basic mobile no Line indicators,

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functionality and performance, "and YD/T 1215-2006" 900/1800MHzTDMA digital cellular mobile communication Letter Network General Packet Radio Service (GPRS) device Test Method. The mobile station "in the relevant content.

This specification is the first release.

Wireless Drive Test Calibration Specification

1 Scope

This calibration specifications for GSM and CDMA wireless channel measuring instrument wireless road test instrument calibration.

2. References

This specification refers to the following documents.

YDC023-2006 800MHzCDMA1X Digital Cellular Mobile Telecommunication Network Test Method. The mobile station Part 1 Basic indicators of wireless features and performance YD/T 1215-2006 900/1800MHzTDMA digital cellular mobile telecommunication network Packet Radio Service (GPRS) device testing method. the mobile station for dated references, only the dated edition applies to this specification; undated reference documents Member, the latest edition (including any amendments) applies to this specification.

3 terminology and units of measurement 3.1 error vector magnitude, EVM on the vector coordinates (Figure 1), with the decline due to the interference of non-linear RF amplifier noise, transmission channel Down, etc., so that the amplitude and phase of a vector to produce changes in the measured magnitude of the vector difference vector and the reference vector. That A scalar quantity, is usually expressed as a percentage of the peak value of the reference vector.

Figure 1 error vector

3.2 phase error in the digitally modulated carrier signal, the carrier phase to form a string of symbols of the track phase, the phase of each symbol Difference between the regression line. In degrees (°).

3.3 waveform quality Applied to the CDMA system metrics, it is related to the ratio of power to total power; power is usually associated it is calculated from the measured cross-correlation signal with a known coding as a reference baseband signals obtained.

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