



Communication signal base station measurement method



Overview

The method comprises that a first base station determines measurement configuration information which indicates the UE to measure reference signals sent by a first network node in an assigned bandwidth, the first base station services as a service base station of the UE, and the first network node is in a sleep state; the first base station sends the measurement configuration information to the UE; the UE obtains the measuring result by measuring the reference signals of the first network node according to the measurement configuration information, and the first base station receives a measuring result sent by the UE; and the first base station determines whether to awake the first network node according to the measuring result.



Article Content

EP2849507A1

Embodiments of the present disclosure provide a measurement method for a reference signal, a base station and UE. The measurement method includes: transmitting, by a base station to ...

3GPP base station conformance testing

Easy and user-friendly signal generation as well as standardized signal analysis of all individual measurements is essential, to quickly test and measure in full ...

Integrated Sensing and Communication enabled Sensing ...

Oct 13, 2023 · This paper studies the sensing base station (SBS) that has great potential to improve the safety of vehicles and pedestrians on roads. It can detect the targets on the road ...

Testing Communication System Performance in ...

Jul 8, 2025 · In a next step communication is established between the mobile terminals and the base-station and throughput measurements of all terminals in parallel are started.

ANRITSU TECHNICAL REVIEW No.25

Mar 16, 2018 · As described above, the previously used NFM method cannot be used as is because Massive MIMO base stations have no measurement connectors, and capture of the ...

Single-port measurement scheme: An alternative approach ...

Oct 1, 2023 · To calibrate the test system of fifth-generation (5G) massive multiple-input multiple-output (MIMO) base station (BS), this paper proposes a promising single-port measurement ...

Mobile Communication Base Station Antenna Measurement ...

Aug 15, 2019 · Designed to address the above problems, this paper proposes an intelligent and fully automatic antenna measurement unmanned aerial vehicle (UAV) system for mobile ...

Channel Measurements for Integrated Sensing and ...

Jun 21, 2024 · We conduct extensive channel measurements based on an ISAC prototype to endorse the sensing channel model. In particular, we develop a signal processing method in ...

Mobile Communication Base Station Antenna ...

Aug 15, 2019 · Abstract and Figures Traditional base station antenna measurement methods conducted with professional worker climbing towers ...

The optimal 5G base station location of the wireless sensor ...

Aug 1, 2023 · After the signal enhancement is completed in the base station, the data packet continues to be transmitted to the processing center. Finally, the data processing center ...

Simulation and Classification of Mobile Communication Base Station ...

Dec 16, 2020 · In recent years, with the rapid deployment of fifth-generation base stations, mobile communication signals are becoming more and more complex. How to identify and classify ...

Human exposure to EMF from 5G base stations: analysis, ...

Apr 1, 2024 · Measurements based on the synchronization signals power level, using spectrum analyzers or drive test scanners, may be valid, if gain differences between the signaling and ...

5G NR Sub-6 GHz Measurement Methods Application ...

Aug 21, 2019 · This application note references the 3GPP TS38.104 and TS38.141 Conformance Test specifications, and introduces TRx test measurement examples for wired connections ...

The First Experimental Validation of a ...

Mar 22, 2025 · Integrated Sensing and Communication (ISAC) is an important trend for future commutation networks. The Communication Base Station ...

Network node and method for detecting false base stations

A method performed by a network node (101), for detecting a false base station in a communications network (100). The network node (101) operates in the communication ...

Measurement and analysis of RF EMF exposure to 5G ...

Mar 6, 2025 · INTRODUCTION The further development of mobile communication networks towards the current generation 5G is associated with an increased use of so-called massive ...

Base Station Testing: A Comprehensive Guide

Jun 20, 2023 · Signal Strength and Coverage: Measuring the base station's signal strength and coverage area is one of the main goals of base station testing. ...

US20150124731A1

In a communication system in which a base station apparatus notifies a mobile station apparatus of a measurement configuration indicating a configuration of measurement using a reference ...

Mobile Communication Base Station Antenna ...

Dec 24, 2023 · ABSTRACT Traditional base station antenna measurement methods conducted with professional worker climbing towers tend to raise safety and inefficiency concerns in ...

A Traffic Load Measurement Method for Mobile Communication Base Station

Oct 18, 2024 · In this paper, we propose a method for measuring the wireless traffic load of a base station using the reference terminal after configuring the reference terminal based on the ...

Method Analysis For The Measurement Of ...

Jun 14, 2017 · Method Analysis For The Measurement Of Electromagnetic Field From LTE Base Stations Fahad Faisal based on measurements of physical broadcast channel (PBCH) using ...

Optimize Signal Quality In 5G Private Network Base ...

Dec 8, 2023 · Optimize Signal Quality In 5G Private Network Base Stations With the rapid evolution of cellular communication systems, there is a growing need for higher operating ...

MEASUREMENT METHOD FOR WIRELESS ...

Mar 17, 2021 · A measurement method for wireless communication networks, a base station and a terminal as defined in accompanying claims are provided, and may enable the ...

US20190357234A1

A measurement method, a base station and a terminal are provided. The method includes: a base station sends a switch message for a narrow bandwidth reception mode to a terminal to ...

OTA Test Method for Receiver Sensitivity of Mobile Communication Base ...

Feb 9, 2018 · The paper carries out test towards the mobile communication base station antenna radiation port over the air (OTA), analyzes the interference generated by antenna, and tests ...

Analysis of 5G Smart Communication Base ...

Feb 22, 2023 · With the continuous development of mobile communication and satellite navigation technologies, the positioning requirements of 5G smart ...

Signal Analysis in 5G NR Base Station ...

Jul 20, 2022 · In the first and second parts of the 5G signal analysis (spectrum analysis) conformance testing blog series based on the 3rd generation ...

Types and Applications of Mobile ...

Oct 11, 2024 · Mobile communication base station is a form of radio station, which refers to a radio transceiver station that transmits information between mobile ...

International Telecommunication Union

Aug 2, 2011 · Influence of Visible Base Stations The number of visible base stations does not significantly influence RF exposure level. Bornkessel, RF Exposure Measurement Campaigns ...

Test and Measurement

Aug 2, 2022 · The goal of Base Station Transmits is to discuss challenges faced by engineers and technicians who must optimize today's wireless networks. Topics include antenna systems, ...

Communication method, base station and user equipment (UE)

The method comprises that a first base station determines measurement configuration information which indicates the UE to measure reference signals sent by a first network node in an ...

Base station testing

Jan 7, 2025 · Traditionally base stations have been verified by measuring their performance conductively at the antenna interface. With 5G, we enter a new ...

Mobile Communication Base Station Antenna ...

Dec 24, 2023 · A method named mobile communication base station antenna measurement using UAVs has been proposed that is faster and safer than the previous state-of-the-art and can ...

WO2013176027A1

A mobile station device adds the corrected measurement value included in the measurement setting to the measurement result of each channel state information reference signal and ...

Signal Analysis in 5G NR Base Station ...

Mar 16, 2022 · A base station can be configured in one of four ways, depending on whether the tests are conducted or radiated, and the configuration of the ...

Wireless Communication Base Station Location Selection ...

Jun 9, 2024 · 1. Introduction Recently, with the rapid development of wireless communication technology, the enhancement of wireless network performance is concerned with meeting the ...

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