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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
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GB/T 20851.5-2007

**Electronic toll collection—Dedicated short range
communication—Part 5: Test methods of the
main parameters in physical layer**

电子收费 专用短程通信

第 5 部分：物理层主要参数测试方法

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Foreword

GB/T 20851-2007 *Electronic toll collection—Dedicated short range communication* divided into:

- Part 1: Physical payer;
- Part 2: Data link layer;
- Part 3: Application layer;
- Part 4: Equipment application;
- Part 5: Test methods of the main parameters in physical layer.

This is part 5 of GB/T 20851-2007.

This part is proposed by Ministry of Communications.

This part is under the jurisdiction of National Technical Committee (SAC/TC 268) on Intelligent Transportation System (ITS) of Standardization Administration of China

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Electronic Toll Collection—Dedicated Short Range Communication

Part 5 Test Methods of the Main Parameters in Physical Layer

1 Scope

This part specifies main test equipment for main parameters in physical layer of electronic toll collection (ETC)—dedicated short range communication (DSRC) as well as recommended characteristics, test conditions and test method of accessories.

This part applies to the test for main parameters in physical layer of electronic toll collection—dedicated short range communication roadside unit (RSU) and on-board unit (OBU).

2 Normative references

The articles contained in the following documents have become this part of GB/T 20851 when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this part. For the undated documents so quoted, the latest editions shall be applicable to this part.

GB 9254-1998 Information technology equipment--Radio disturbance characteristics --Limits and methods of measurement (idt CISPR 22: 1997)

GB/T 12190-2006 Method for measuring the shielding effectiveness of electromagnetic shielding enclosures

GB/T 20851.1-2007 Electronic toll collection—Dedicated short range communication —Part 1: Physical layer

3 Symbols and abbreviations

3.1 Symbols

Following symbols apply to this part.

dBc refers to the ratio of power to carrier signal power/

dBm refers to the ratio of power to 1mW, 0 dBm=1 mW

e. i. r. P_{em} refers to spurious equivalent omnidirectional radiation power

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