



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 6113.102-2018

**Specification for radio disturbance and immunity measuring apparatus and
methods -- Part 1-2: Radio disturbance and immunity measuring apparatus --
Coupling devices for conducted disturbance measurements**

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FOREWORD

GB/T6113 "Specification for radio disturbance and immunity measuring apparatus and methods", a basic standard of electromagnetic compatibility, consists of the following four parts.

Part 1. Radio disturbance and immunity measuring apparatus

-- Part 1-1. Radio disturbance and immunity measuring apparatus - Measuring equipment;

-- Part 1-2. Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurements;

-- Part 1-3. Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbances power;

-- Part 1-4. Radio disturbance and immunity measuring apparatus - Radiated disturbance measuring antenna and test site;

-- Part 1-5. Radio disturbance and immunity measuring apparatus - Antenna calibration sites and reference test sites for 30 MHz to 1000 MHz

-- Part 1-6. Radio disturbance and immunity measuring apparatus - EMC antenna

calibration.

Part 2.Methods of measurement of disturbances and immunity

- Part 2-1.Methods of measurement of disturbances and immunity - Conducted disturbance measurements;
- Part 2-2.Methods of measurement of disturbances and immunity - Measurement of disturbance power;
- Part 2-3.Methods of measurement of disturbances and immunity - Radiated disturbance measurements
- Part 2-4.Methods of measurement of disturbances and immunity - Immunity measurements;
- Part 2-5.In situ measurements of disturbing emissions produced by physically large equipment

Part 3.CISPR technical reports

- Part 3.CISPR technical reports.

Part 4.Uncertainties, statistics and limit modelling

- Part 4-1.Uncertainties, statistics and limit modelling - Uncertainties in standardized EMC tests;
- Part 4-2.Uncertainties, statistics and limit modelling - Measurement instrumentation uncertainty;
- Part 4-3.Uncertainties, statistics and limit modelling - Statistical considerations in the determination of EMC compliance of mass-produced products;
- Part 4-4.Uncertainties, statistics and limit modelling - Statistics of complaints and a model for the calculation of limits;
- Part 4-5.Uncertainties, statistics and limit modelling - Conditions for the use of alternative test methods.

This Part is Part 1-2 of GB/T 6113.

This Part was drafted in accordance with the rules given in GB/T 1.1-2009.

This Part replaces GB/T 6113.102-2008 "Specification for radio disturbance and

immunity measuring apparatus and methods - Part 1-2.Radio disturbance and immunity measuring apparatus - Ancillary equipment - Conducted disturbances".

Compared with GB/T 6113.102-2008, the main technical changes are as follows.

- Modify the standard's name;
- Add a "Note" to the scope according to the principle of equivalence;
- Add 7 terms and definitions (see Clause 3);
- Add abbreviations (see 3.2);
- Add longitudinal conversion loss requirements for AAN (or Y-network) for common-mode voltage measurement of category 6 (or better), category 5 (or better), and category 3 (or better) unscreened balanced pair cables (see 7.2);
- Add CDNE for the measurement of disturbance voltage in the frequency range of

30 MHz ~ 300 MHz (see Clause 9);

- Add Example CDNE set-up diagrams (see Annex J).

This Part uses the translation method to equivalently adopt CISPR 16-1-2:2014

"Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2.Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurements".

The documents of our country that have a consistent correspondence with the international documents that are referenced in this Part are as follows.

- GB/T 4365-2003 Electrotechnical terminology - Electromagnetic compatibility (IEC 60050(161).1990, IDT);
- GB/T 6113.201-2017 Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1.Methods of measurement of disturbances and immunity - Conducted disturbance measurements (CISPR 16-2-1:2010, IDT);
- GB/T 17626.6-2008, Electromagnetic compatibility - Testing and measurement techniques - Immunity to conducted disturbances induced by radio-frequency fields (IEC 61000-4-6:2006, IDT).

This Part shall be under the jurisdiction of National Technical Committee 79 on Radio

Jamming of Standardization Administration of China (SAC/TC 79).

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The previous version of the standard which is replaced by this Part is.

-- GB/T 6113.102-2008.

Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2. Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurements

1 Scope

This part of the GB/T 6113 series specifies the characteristics and performance of equipment for the measurement of radio disturbance voltages and currents in the frequency range 9 kHz ~ 1 GHz.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references,