



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

GB/T 4214.10-2021

**Test method for noise of household and similar electrical
appliances - Procedure for determining and verifying declared
noise emission values**

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Foreword

This Document was drafted as per the rules specified in GB/T 1.1-2020 Directives for Standardization - Part 1: Rules for the Structure and Drafting of Standardizing Documents. This Document was Part 10 of GB/T 4214 Test Method for Noise of Household and Similar Electrical Appliances. GB/T 4214 has published the following parts:

- General Requirements (GB/T 4214.1);
- Particular Requirements for Vacuum Cleaners (GB/T 4214.2);
- Particular Requirements for Dishwashers (GB/T 4214.3);
- Particular Requirements for Washing Machines and Spin Extractors (GB/T 4214.4);
- Particular Requirements for Electric Shavers (GB/T 4214.5);
- Particular Requirements for Electric Hair Care Appliances (GB/T 4214.6);
- Particular Requirements for Tumble Dryers (GB/T 4214.7);
- Particular Requirements for Electric Cooking Ranges, Ovens, Grills, Microwave Ovens and Any combination of These (GB/T 4214.8);
- Particular Requirements for Fans (GB/T 4214.9);
- Procedure for Determining and Verifying Declared Noise Emission Values (GB/T 4214.10);
- Particular Requirements for Electrically-Operated Food Preparation Appliances (GB/T

4214.11);

--- Particular Requirements for Fan Heaters (GB/T 4214.12);

--- Particular Requirements for Range Hoods and Other Cooking Fume Extractors (GB/T 4214.13);

--- Particular Requirements for Refrigerators, Frozen-Food Storage Cabinets and Food Freezers (GB/T 4214.14);

--- Particular Requirements for Electric Thermal Storage Room Heaters (GB/T 4214.15).

This Document used translation method to equivalently adopt IEC 60704-3:2006 Household

and Similar Electrical Appliances - Test Code for the Determination of Airborne Acoustical Noise - Part 3: Procedure for Determining and Verifying Declared Noise Emission Values.

The Chinese documents that have a consistent correspondence with the international documents

normatively cited in this document are as follows:

--- GB/T 4214.1-2017 Test Method for Noise of Household and Similar Electrical Appliances - General Requirements (IEC 60704-1:2010, MOD);

--- GB/T 4214.2-2020 Test Method for Noise of Household and Similar Electrical Appliances - Particular Requirements for Vacuum Cleaners (IEC 60704-2-1:2014, IDT);

--- GB/T 4214.3-2008 Test Method for Noise of Household and Similar Electrical Appliances - Particular Requirements for Dishwashers (IEC 60704-2-3:2005, IDT);

--- GB/T 4214.4-2020 Test Method for Noise of Household and Similar Electrical Appliances - Particular Requirements for Washing Machines and Spin Extractors (IEC 60704-2-4:2011, IDT);

--- GB/T 4214.5-2008 Test Method for Noise of Household and Similar Electrical Appliances - Particular Requirements for Electric Shavers (IEC 60704-2-8:1997, IDT);

--- GB/T 4214.6-2008 Test Method for Noise of Household and Similar Electrical Appliances - Particular Requirements for Electric Hair Care Appliances (IEC 60704-2-9:2003, IDT);

--- GB/T 4214.7-2020 Test Method for Noise of Household and Similar Electrical

Appliances - Particular Requirements for Tumble Dryers (IEC 60704-2-6:2012, IDT);
--- GB/T 4214.8-2021 Test Method for Noise of Household and Similar Electrical
Appliances - Particular Requirements for Electric Cooking Ranges, Ovens, Grills,
Microwave Ovens and Any combination of These (IEC 60704-2-10:2011, IDT);
--- GB/T 4214.9-2021 Test Method for Noise of Household and Similar Electrical
Appliances - Particular Requirements for Fans (IEC 60704-2-7:2020, MOD);
--- GB/T 4214.11-2021 Test Method for Noise of Household and Similar Electrical
Appliances - Particular Requirements for Electrically-Operated Food Preparation
Appliances (IEC 60704-2-11:1998, MOD);
--- GB/T 4214.12-2021 Test Method for Noise of Household and Similar Electrical
Appliances - Particular Requirements for Fan Heaters (IEC 60704-2-2:2009, MOD);
--- GB/T 4214.13-2021 Test Method for Noise of Household and Similar Electrical
Appliances - Particular Requirements for Range Hoods and Other Cooking Fume
Extractors (IEC 60704-2-13:2016, IDT);
--- GB/T 4214.14-2021 Test Method for Noise of Household and Similar Electrical
Appliances - Particular Requirements for Refrigerators, Frozen-Food Storage Cabinets
and Food Freezers (IEC 60704-2-14:2009, IDT);
Test Method for Noise of Household
and Similar Electrical Appliances - Procedure for
Determining and Verifying Declared Noise Emission Values

1 Scope

This Document describes procedures for determining and verifying the declared values of the

noise emitted by household and similar appliances.

This Document applies to all categories of household and similar electrical appliances covered

by IEC 60704-1 and IEC 60704-2.

This Document applies to appliances being produced in quantity (in series, batches, lots) manufactured to the same technical specification and characterized by the same labeled

value

of noise emission.

This Document considers the term "declaration" to include all means for providing information

on the noise emission values to potential users (consumers) of the appliances; this includes labels, brochures, advertisements, commercial and technical information papers, etc.;

This Document considers the declaration for appliances manufactured by mass production, with

the same declared value for the lot (batch);

This Document specifies a simple statistical method for verifying the declared values by investigating a sample of only three appliances.

2 Normative References

The provisions in following documents become the essential provisions of this Document through reference in this Document. For the dated documents, only the versions with the dates

indicated are applicable to this Document; for the undated documents, only the latest version

(including all the amendments) is applicable to this Document.

IEC 60704-1:1997 Household and Similar Electrical Appliances - Test Code for the Determination of Airborne Acoustical Noise - Part 1: General Requirements

IEC 60704-2 (all parts) Household and Similar Electrical Appliances - Test Code for the Determination of Airborne Acoustical Noise - Part 2: Particular Requirements

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