



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

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**

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Foreword

GB/T 4214 Test Method for Noise of Household and Similar Electrical Appliances consists of

the following 9 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 Car Appliances (GB/T 4214.6);
- Particular Requirements for Tumble Dryers (GB/T 4214.7);
- Particular Requirements for Electric Cooling Ranges, Ovens, Grills, Microwave Ovens and Any Combination of These (GB/T 4214.8);
- Particular Requirements for Fans (GB/T 4214.9).

This Part is Part 8 of GB/T 4214.

This Part is used in conjunction with GB/T 4214.1-2017. The "applicable" in this Part means that the corresponding provisions in GB/T 4214.1-2017 are applicable to this Part; the "replacement" in this Part is subject to the provisions in this Part; the "addition" in this Part means that in addition to complying with the corresponding provisions in GB/T 4214.1-2017,

it is also necessary to comply with the provisions added in this Part.

This Part was drafted as per the rules specified in GB/T 1.1-2009.

This Part used translation method to equivalently adopt IEC 60704-2-10:2011 Household and

Similar Electrical Appliances - Test Code for the Determination of Airborne Acoustical Noise - Part 2-10: Particular Requirements for Electric Cooking Ranges, Ovens, Grills, Microwave Ovens and Any Combination of These.

This part made the following editorial modification.

--- In order to keep consistent with the existing standards, Change the standard name into 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.

Please note some contents of this Document may involve patents. The issuing agency of this

Document shall not assume the responsibility to identify these patents.

Test Method for Noise of Household and Similar Electric Appliances - Particular Requirements for Electric Cooking Ranges, Ovens, Grills, Microwave Ovens and Any Combination of These

1 Scope and Object

This Clause of GB/T 4214.1-2017 is applicable except as follows.

1.1.1 General

Addition.

This Part of GB/T 4214 apply to electric cooking ranges, ovens, grills, microwave ovens and any combination of these for household and similar use.

NOTE 101. This Part do not apply to hobs due to lack of standardized load (pans) representative of

normal use and ensuring a good repeatability of tests. For these applications, the loading and operating

conditions are under consideration.

This Part does not apply to appliances or parts of appliances that use gas energy.

1.1.2 Types of noise

Replacement.

The methods specified in GB/T 6881.2, GB/T 6881.3 and GB/T 3767 can be used for measuring

noise emitted by electric cooking ranges, ovens, grills, microwave ovens and any combination

of these.

1.1.3 Size of the source

Replacement.

The method specified in GB/T 3767 is applicable to noise sources of any size. When applying

GB/T 6881.2 and GB/T 6881.3, care should be taken that the maximum size of the appliance

under test fulfils the requirements specified in 1.3 of GB/T 6881.2 and GB/T 6881.3.

type as the standard exhaust system shall be used for connection of the appliance to the standard

exhaust system.

6.1.2 Replacement.

Prior to noise measurements, the appliance, equipped according to 6.1.1, shall have been in

operation at maximum speed and power for at least 10 min. The load shall be chosen

according

to 3.111.

6.1.3 Replacement.

Stabilizing is included in operating, according to 6.4.2.

6.4.2 Replacement.

Unless otherwise specified in this standard, for each function settings shall be chosen that produce the highest noise emission. As a result, the highest noise emission value from all functions shall be reported. Any cleaning mode shall be disregarded.

In the case of multiple cavity ovens, the multiple cavities shall be operated simultaneously.

NOTE 101. In general, the highest noise emission occurs at the highest air circulation, turntable speed,

roisserie speed, fan speed, microwave power, etc. When provided, the manufacturer's instructions

should be taken into account.

For microwave function, including all possible combined functions, a load according to 3.111

shall be applied. Measurements shall be started 2 min after switching on and shall be finished

before boiling occurs.

For other heating functions, temperature conditions shall be as follows.

- boiling temperature of water for steam function;
- 175 °C for ovens with forced air circulation heating function and hot steam function;
- 200 °C for all other heating functions;
- maximum setting for grill function.

Measurements shall be started when the specified temperature is reached. On grills, measurements shall be started 15 min after switching on.

NOTE 102. If there is no indicator, reaching of the specified temperature could be controlled with a

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