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JJG

NATIONAL METROLOGY VERIFICATION REGULATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJG 1172-2019

Working Standard Microphones(Free-field Comparison Method)

工作标准传声器（自由场比较法）检定规程

(English Translation)

Implemented on: March 31, 2020

Issued by: State Administration for Market Regulation

Preview: page 1 of 4 shown, 15 in the full document. Complete English PDF, instant download:
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Table of Contents

Introduction (II)

1 Scope (1)

2 References (1)

3 Terms and units of measurement (1)

3.1 Working standard microphone (2)

3.2 Reference microphone (2)

3.3 Monitoring microphone (2)

4 Overview (2)

5 Measurement performance requirements (2)

5.1 Free field sensitivity level (2)

5.2 Frequency response of sensitivity level (2)

6 General technical requirements (3)

6.1 Logo (3)

6.2 Factory data (3)

7 Control of measuring instruments (3)

7.1 Verification conditions (3)

7.2 Verification items (4)

7.3 Verification method (5)

7.4 Processing of verification results (7)

7.5 Verification period (7)

Appendix A. Amendment of environmental parameters with reference to the free field sensitivity level of the microphone (8)

Appendix B. Internal page format of verification certificate and verification result notification (9)

Appendix C Examples of measurement uncertainty assessment (11)

7.5 Verification period (7)

Appendix A. Amendment of environmental parameters with reference to the free field sensitivity level of the microphone (8)

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Appendix C Examples of measurement uncertainty assessment (11)

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Introduction

This regulation is based on the rules and format given in JJF1002-2010 "Rules for Compiling National Measurement Verification Regulations" prepared by.

This regulation refers to the international standard IEC 61094-8:2012 "Electroacoustic Measurement Microphone Part 8: Determination "Comparison of free-field sensitivity for standard microphones" and GB/T 20441.4-2006 "Measurement Microphones Part 4" Points. Working Standard Microphone Specification".

Published JJG 1019-2007 "Working Standard Microphone (Coupling Cavity Comparison Method)", JJG 175-2015 "Working Standard Microphone (Electrostatic Exciter Method)" and this regulation replace JJG 175-1998 "Test Capacitance "Microphone", this regulation replaces the content of the free field comparison method in JJG 175-1998 "Testing Condenser Microphones".

This regulation is issued for the first time.

Verification Regulation of Working Standard Microphone (Free Field Comparison Method)

1 Scope

This regulation is applicable to meet GB/T 20441.4-2006 "Measurement Microphone Part 4: Working Standard Sound Transmission the first verification, follow-up verification and in-use inspection of the working standard microphones specified in the "Microphone Specification".

2 Reference documents this regulation refers to the following documents.

JJG 175-2015 working standard microphone (electrostatic exciter method) JJF1001 General Measurement Terms and Definitions JJG 1019-2007 working standard microphone (coupling cavity comparison method) JJF1034 Terms and Definitions of Acoustic Measurement Terms JJF1059.1 Evaluation and expression of measurement uncertainty JJF1147 Calibration Specification for Acoustic Characteristics of Anechoic Room and Semi-anechoic Room GB/T 3102.7 Acoustic quantities and units GB/T 3947 Acoustic terms GB/T 15173-2010 Electroacoustic Acoustic Calibrator GB/T 20441.3-2010 Electroacoustic measurement microphones Part 3: Use reciprocity technology for laboratory Primary method of free field calibration of standard microphone GB/T 20441.4-2006 Measurement microphones Part 4: Specifications of working standard microphones IEC 61094-2 Electroacoustic Measurement Microphone Part 2: Using Reciprocity Technology to Transmit Laboratory Standard Sound the original method of the sound pressure calibration of the instrument (Electroacoustics-Measurementmicrophones-Part 2: Pri-marymethodforpressurecalibrationoflaboratorystandardmicrophonesbythereciproc-itytechnique) IEC 61094-3 Electroacoustic Measurement Microphone Part 3: Using Reciprocity Technology to Transmit Laboratory Standard Sound the primary method of free field

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calibration of the instrument (Electroacoustics-Measurementmicrophones-Part 3.

Primarymethodforfree-fieldcalibrationoflaboratorystandardmicrophonesbythereci-procitytechnique) IEC 61094-8:2012 Electroacoustic measurement microphones Part 8: Determination of working standard microphone free field Sensitivity comparison method (Electroacoustics-Measurementmicrophones-Part 8: Methodsfor determiningthefree-fieldsensitivityofworkingstandardmicrophonesbycomparison) for dated references, only the dated versions are applicable to this Regulation; for those without dates the latest version (including all amendments) is applicable to this regulation.

3 Terms and units of measurement this regulation adopts the quantity and unit specified in GB/T 3102.7.

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