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ICS 17.140

JJF

NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE

PEOPLE'S REPUBLIC OF CHINA

JJF 1797-2020

Calibration Specification for Measuring Instruments for Overall Speech Characteristics of Intercom Systems

对讲系统全程语音特性测量仪校准规范

(English Translation)

Implemented on: April 17, 2020

Issued by: State Administration for Market Regulation

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5 Measurement characteristics (2)

5.1

The sound pressure level at the reference point of the simulated mouth at the transmitter (2)

5.2

The deviation of the simulated voice at the sender from the standard voice (2)

5.5 Frequency response of loudness level at the receiving end (2)

5.6 The receiving end loudness level is linear (3)

7.3 Sound pressure level at the reference point of the simulated mouth at the transmitter (4)

7.4 The deviation of the simulated voice at the transmitter relative to the standard voice (5)

9 Re-calibration interval (7)

Appendix A. Contents and recommended format of calibration certificate (8)

Appendix B Evaluation Example of Uncertainty of Measurement Results (12)

Introduction

This specification is compiled in accordance with the requirements and format of JJF 1071-2010 "Rules for the Compilation of National Metrology and Calibration Specifications".

This specification mainly refers to GB 31070.1-2014 ``Lou Apartment Intercom System Part 1: General Technical Requirements Requirements", IEC 62820-1-1:2016 "Louyu Intercom System Part 1-1.System Requirements---General Rules" (Buildingintercomsystems-Part 1-1.Systemrequirements-General) the technical requirements for measuring instruments of the fixed value test, and JJG869-2002 "Telephone Electroacoustic Tester", ITU-T P.501 "Test signal for telephone measurement" (Testsignalsforuseintelephonometry).

This specification is released for the first time.

Calibration specification for the whole process voice characteristic measuring instrument of

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the intercom system

1 Scope

This specification applies to the frequency range of 100Hz~8kHz, and is used for the whole process of evaluating the sound quality of intercom systems and other products.

Tone characteristic measuring instrument calibration.

2 Reference documents this specification refers to the following documents.

JJG175-2015 working standard microphone (electrostatic exciter method) JJG449-2014 Octave and Fractional Octave Filter JJG869-2002 Telephone Electroacoustic Tester JJG1019-2007 working standard microphone (coupling cavity comparison method) JJF 1034-2005 Acoustic measurement terms and definitions JJF 1147-2006 Calibration specification for acoustic characteristics of anechoic room and semi-anechoic room JJF 1580-2016 Calibration Specification for Artificial Mouth GB/T 3102.7 Acoustic quantities and units GB/T 31070.1-2014 Building Intercom System Part 1: General Technical Requirements IEC 62820-1-1:2016 Building Intercom System Part 1-1.System Requirements---General (Building intercomsystems-Part 1-1.Systemrequirements-General) ITU-TP.501 Test signal for telephone measurement (Testsignalsforuseintelephonometry) for dated reference documents, only the dated version applies to this specification; for undated references the latest version (including all amendments) is applicable to this specification.

3 Terms and units of measurement this specification adopts the quantities and units specified in GB/T 3102.7.

The following terms and definitions defined by JJF 1034-2005 are applicable to this specification.

3.1 Overalspeechcharacteristic the quality of the voice signal is maintained during the process of sending, spreading and receiving in the air.

3.2 Overall loudness rating overalloudnessrating OLR the loudness value from the reference point of the transmitting end mouth to the reference point of the receiving end ear.

Note: The unit of the overall loudness evaluation value is dB.

[GB 31070.1-2014, definition 3.1.6]

3.3 Mouthreferencepoint MRP

a) The loudness rating is on the reference axis, 25mm from the point directly in front of the lip plane.

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