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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 4854.9-2016

Acoustics -- Reference zero for the calibration of audiometric equipment -- Part 9: Preferred test conditions for the determination of reference hearing threshold levels

声学 校准测听设备的基准零级 第9部分：确定基准听阈级的优选测试条件

(English Translation)

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Foreword

GB/T 4854 "Reference zero level for acoustic calibration audiometric equipment" is divided into the following sections.

- Part 1. Pressure ear type earphone pure tone reference equivalent threshold sound pressure level;

--- acoustic plug-in headphones pure tone reference equivalent threshold sound pressure level;

- Part 3. bone tone pure tone reference equivalent threshold level;

- Part 4. Reference level for narrowband masking noise;

- Part 5. 8 kHz to 16 kHz frequency range pure tone reference equivalent threshold sound pressure level;

- Part 6. Baseline hearing thresholds for short time test signals;

- Part 7. Benchmark hearing thresholds for free field and diffuse field audiometry;

- Part 8. Monocular headphones - Pure tone reference equivalent threshold sound pressure level;

Part 9. Determine the preferred test conditions for the baseline hearing threshold.

Note: In the development of the second part of the standard, has not yet formed China's multi-part of the standard, the standard number GB/T 16402, in the part of the amendment, its standard number will be changed to GB/T 4854.2.

This part is part 9 of GB/T 4854.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the translation method equivalent to ISO 389-9.:2009 "Acoustics calibration audiometric equipment, the zero level of the ninth part. determine the base Quasi-threshold level of the preferred test conditions. " in this part of the normative reference to the international documents have a consistent correspondence between the following documents.

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GB/T 4854.3-1998 Acoustics Calibration Benchmarking of audiometric equipment Part 3. Bone shock absorber pure tone reference equivalent threshold Force level (eqvISO 389-3..1994);

GB/T 4854.6-2014 Baseline zero level of acoustic calibration audiometric equipment Part 6. Benchmark for short-range test signals Listening threshold (ISO 389-6.:2007, IDT);

GB/T 4854.7-2008 Baseline zero level of acoustic calibration audiometric equipment Part 7. Free field and diffusion field audiometry Baseline hearing threshold (ISO 389-7.:2005, IDT);

GB/T 4854.8-2007 Acoustics Calibration Benchmarks for audiometric equipment - Part 8. Monocular headphones, pure tone, etc.

Efficiency threshold pressure level (ISO 389-8.:2004, IDT);

Hearing meters - Part 4. Equipment for extending high - frequency audiometry (idt, IEC 60645-4.:1994); GB/T 7341.4-1998;

Acoustics - Methods of audiometry - Part 2. Sound field audiometry with pure tone and narrowband test signals (eqv, ISO 8253-2.:1992);

Acoustic plug - in headphones - Pure tone reference equivalent threshold sound pressure level (eqv, ISO 389-2.:1994); GB/T 16402-1996;

Acoustics - Methods of audiometry - Part 1. Pure tone and bone conduction thresholds - Basic audiometry (eqv, ISO 8253-1. 1989).

This part is presented by the Chinese Academy of Sciences.

This section is under the jurisdiction of the National Acoustics Standardization Technical Committee (SAC/TC17).

This part of the drafting unit. People's Liberation Army General Hospital Institute of Otolaryngology, Chinese Academy of Sciences Institute of Acoustics, Air Force Aviation Medical Research Institute.

1 Scope

This part of GB/T 4854 specifies the test conditions for determining the subject's hearing threshold for establishing the baseline threshold level.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 4854.1-2004 Baseline zero level for acoustics calibration audiometric equipment -

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Part 1. Pure tone reference equivalent threshold for ear plugs Sound pressure level (ISO 389-1.:1998, IDT) GB/T 7341.1-2010 Electroacoustic audiometry equipment - Part 1. Pure tone audiometer (IEC 60645-1.:2001, IDT) ISO 389-2 Acoustics Calibration Benchmarking of audiometric equipment Part 2. Plug-in headphones Pure tone reference equivalent threshold sound pressure level (Acoustics-Referencezer oforthecalibrationofaudiometricequipment-Part 2. Referenceequivalent thresholdsoundpressurelevelsforpuretonesandinsertearphones) ISO 389-3 Acoustics Calibration Benchmarking of audiometric equipment Part 3. Bone shock absorber pure tone reference equivalent threshold level (Acoustics-Referencezer oforthecalibration ofaudiometricequipment-Part 3. Reference equivalentthresholdforcelevelsforpuretonesandbonevibrators) ISO 389-6 Acoustics Calibration Benchmarks for audiometric equipment - Part 6. Baseline hearing thresholds for short time test signals Lt;/RTI & ofhearingfortestsignalsofshortduration) ISO 389-7 Acoustics Calibration Benchmarks for audiometric equipment Part 7. Benchmark thresholds for free field and diffuse field audiometry (Acoustics-Referencezer oforthecalibrationofaudiometricequipment-Part 7. Referencethreshold ofhearingunderfree-fieldanddiffuse-fieldlisteningconditions) ISO 389-8 Acoustics Calibration Benchmarks for audiometric equipment Part 8. Earmuff headphones Pure tone reference equivalent Threshold sound pressure level (Acoustics-Referencezer oforthe calibration ofaudiometric equipment-Part 8. Reference equivalentthresholdsoundpressurelevelsforpuretonesandcircumauralearphones) ISO 8253-1.:2010 Acoustics - Part 1. Pure tone and bone conduction thresholds Basic audiometry (Acoustics-Audiometrictestmethods-Part 1. Pure-toneair andboneconductionaudiometry) ISO 8253-2.:2009 Acoustics - Methods of audiometry - Part 2. Sound field audiometry with pure tone and narrowband test signals (Acoustics-Audiometrictestmethods-Part 2. Soundfieldaudiometrywithpure-toneandnarrow-bandtestsig-nals ISO/IEC Guide 98-3 Measurement Uncertainty Part 3. Measurement Uncertainty Expression Guidelines [Uncertaintyofmeasure-ment-Part 3. Guidetotheexpessionofuncertaintyinmeasurement (GUM..1995)] IEC 60318-1 Electroacoustic head and ear simulator - Part 1. Alert simulator for calibrating headphones and earphones (Electroacoustics-Simulatorsofhumanheadandear-Part 1. Earsimulatorforthecalibrationofsu-pra-auralandcircumauralearphones) IEC 60318-3 Electroacoustic head and ear simulator Part 3. Calibration of the audible coupler for headphones,

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