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

GB/T 4854.4-1999

**Acoustics. Reference zero for the calibration of audiometric
equipment. Part 4: Reference levels for narrow-band masking
noise**

(English Translation)

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Table of Contents

Foreword	3
ISO Foreword	5
Introduction	6
1 Scope	7
2 Normative References	7
3 Definitions	8
4 Specifications	9
Annex A (informative) Notes on the Derivation of the Reference Levels	11
Annex B (informative) Bibliography	13

1 Scope

This Standard specifies reference levels for narrow-band masking noise presented by air conduction from an earphone in pure-tone audiometry. The data are given in terms of levels to be added to the reference equivalent threshold sound pressure levels for the corresponding pure-tone frequencies as specified in GB/T 4854.1 or GB/T 16402, respectively, when the masking earphone is placed on the appropriate acoustic coupler, ear simulator or artificial ear.

Data are given for noise bandwidths of one-third and one-half octaves.

NOTE: some notes on the derivation of the reference levels are given in Annex A.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

GB/T 4854.1-1999 Acoustics - Reference Zero for the Calibration of Audiometric

Equipment - Part 1: Reference Equivalent Threshold Sound Pressure Levels for Pure Tones and Supra-aural Earphones (eqv ISO 389-1:1991)

GB/T 7341.1-1998 Audiometers - Part 1: Pure-tone Audiometers (idt IEC 645-1:1992)

GB/T 7342-1987 IEC Provisional Reference Coupler for the Calibration of Earphones

Used in Audiometry (eqv IEC 303:1970)

GB/T 7614-1987 An Artificial Ear of Wide Band Type for the Calibration of Earphones

Used in Audiometry (eqv IEC 318:1970)

GB/T 16402-1996 Acoustics - Reference Equivalent Threshold Sound Pressure Levels for Pure Tones and Insert Earphones (eqv ISO 389-2:1994)

SJ/Z 9144-1987 IEC Reference Coupler for the Measurement of Hearing Aids Using

Earphones Coupled to the Ear by Means of Ear Inserts

GB/T 2829-2025 | DZ/T 0175-2014 | GB/T 6379.6-2009 | GB/T 4854.3-2022 |