
**Acoustics — Measurement of airborne
noise emitted by information
technology and telecommunications
equipment**

*Acoustique — Mesurage du bruit aérien émis par les équipements liés
aux technologies de l'information et aux télécommunications*

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*.

This fourth edition cancels and replaces the third edition (ISO 7779:2010), which has been technically revised. The main changes compared to the previous edition are as follows:

- [Clause 3](#):
<https://standards.iteh.ai/catalog/standards/iso/f931efee-1c0b-44e5-ae01-c619c3e5299c/iso-7779-2018>
 - Updates of many items in [3.1](#) and [3.2](#) to be consistent with basic standards, such as ISO/TR 25417, ISO 3744, etc.
 - Addition of new [3.3](#) corresponding to new [Clause 9](#).
- [Clause 6](#):
 - In [6.4.6](#), the microphone calibration procedures were amended to be consistent with those of industrial counterpart, ECMA-74.
- [Clause 7](#):
 - In [7.3](#) ([7.3.1](#)), the procedure for test environment qualification was amended to clarify that any frequency bands, typically low in frequency, not significantly affecting A-weighted sound power level need not meet the hemi-anechoic room qualification criteria for the purposes of determining A-weighted sound power level.

- In [7.4.6](#), the microphone calibration procedures were amended to be consistent with those of industrial counterpart, ECMA-74.
- [Clause 8](#):
 - In [8.6](#), new [8.6.1](#) was inserted to clarify the method of defining operator position and bystander positions.
- [Clause 9](#):
 - [Clause 9](#) was newly inserted.
 - In relation to [Clause 9](#), [3.3](#) was also added, and the descriptions of [Tables 1, 5](#) and [6](#) (in [6.2](#), [7.2](#) and [8.2](#) respectively) were amended.
- [Annex B](#):
 - [B.2.2](#) and [B.2.3](#) were amended to clarify the section of size and microphone positions on the cylindrical measurement surface, respectively.
- [Annex D](#):
 - In [D.1](#), [D.8](#), [D.9.5](#), [D.10.3](#) and [D.10.4](#), descriptions were amended to clarify that [Annex D](#) permits to use FFT data below 89,1 Hz and above 11 200 Hz to calculate tone-to-noise ratio and prominence ratio.
 - In [D.9.7](#) and [D.10.7](#), notes were added to mention that new metrics for detecting prominent discrete tone, (1) total tone-to-noise ratio and (2) total prominence ratio are under development.
- [Annex E](#):
 - The measurement method stated in [Annex E](#) became out of date and was removed. But the annex structure is still maintained for the possible development of a new method (the title of the annex was amended accordingly).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.