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Technical requirements and test methods for reliability of mobile telecommunication terminal

移动通信终端可靠性技术要求和测试方法

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Industry and Information Technology of the People's Republic of China. This document is under the jurisdiction of the National Telecommunications Standardization Technical Committee (SAC/TC485). This document was drafted by: China Academy of Information and Communications Technology, Vivo Mobile Communications Co., Ltd., Huawei Terminal Co., Ltd., and OPPO Guangdong. China Mobile Communications Corporation, Lenovo (Beijing) Co., Ltd., ZTE Corporation, Qingdao Hisense Communication Co., Ltd., Guangdong Xiaotiancai (a children's electronics company) Technology Co., Ltd., Beijing Xiaomi Mobile Software Co., Ltd., China Mobile Communications Group Co., Ltd., Honor Terminal Co., Ltd., Beijing Samsung Communication Technology Research Co., Ltd., Bodin Shihua (Beijing) Technology Co., Ltd., Qualcomm Wireless Communications Technology (China) Co., Ltd., Shanghai Yike Telecommunications Technology Co., Ltd., Guangdong Provincial Telecommunications Terminal Product Quality Supervision and Inspection Center, Beijing Tonghe Shiyi Telecommunications Science and Technology Research Institute Limited Company. The main drafters of this document are. Xia Lijiao, Wei Ran, Wu Chunyu, Yang Lei, Zheng Liansheng, Qin Chong, Yang Jie, Zhang Hongwei, Mi Chen, Wang Yao, and Huang Wei. Xu Wenbo, Zhang Jun, Wu Yue, Zheng Mengxuan, Liu Zhen, Yang Yifan, Shen Feng, Du Zhimin, Cheng Nuo, Li Hui, Xu Shijun, Yao Wang.

Reliability technical requirements for mobile communication terminals and Test methods

1 Scope

GB/T 46367-2025 is the Chinese national standard covering how long a phone survives - the drop and tumble, the button and connector cycling, the temperature and humidity ageing, the water and dust ingress, the battery over its charge cycles, and the failure criteria and sample sizes behind the numbers. First edition, under the Ministry of Industry and Information Technology. In force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026.

This document specifies the technical requirements for the environmental adaptability and mechanical stress of mobile communication terminals, and describes the corresponding test methods. This document applies to the reliability of mobile communication terminals and wearable devices, tablet computers, smart speakers, etc. that support communication functions. test.

Note. This document does not include environmental conditions such as fire, explosion, plasma radiation, or any other unpredictable accidents.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 2423.1 Environmental testing of electrical and electronic products - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Terminal devices that access mobile communication networks.

3.2 Device function terminal function The basic functions of a mobile communication terminal.