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ICS 13.280
CCS C71

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4732.2-2024

Evaluation of power density of human exposure to radio frequency fields from wireless devices used close to the head and body - Part 2: Calculation procedure (frequency range 6 GHz to 300 GHz)

人体暴露于来自靠近人体头部和身体使用的无线设备的射频场的功率密度评估 第2部分：计算规程（频率范围6GHz~300GHz）

(English Translation)

Issued on: July 5, 2024 **Implemented on: October 1, 2024**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-4732-2-2024

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1 Foreword

YD/T 4732.2-2024 was issued by Ministry of Industry and Information Technology on 5 July 2024 and has been in force since 1 October 2024.

It is one of 2 parts of the YD/T 4732 series.

The YD/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

2 Scope Preview

This standard specifies conservative and reproducible calculation procedures for the power density (PD) of a radio frequency (RF) electromagnetic field (EMF) transmitting device incident on the human head or body, when the radiating structure of the device is not more than 200mm away from the human head and body. The calculation procedures include the finite difference time domain method (FDTD) and the finite element method (FEM), and the applicable operating frequency range is 6GHz to 300GHz. The procedures in this standard are applicable to the exposure assessment of handheld and wearable RF transmitting communication equipment to a significant majority of the population.

YD/T 4732.2-2024 falls under ICS 13.280, in the field of environment and health protection, safety.

This catalogue holds 18 other YD/T standards in that field.

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In this catalogue, YD/T standards carry edition years from 1982 to 2026.

3 About this standard

Sector: Telecommunication Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Other parts of this standard:

YD/T 4732.1-2024 - Part 1: Measurement procedure (frequency range 6 GHz to 300 GHz)

Standards on related subjects:

GB 21288-2022 - Limits for human exposure to electromagnetic fields emitted by mobile communication terminals

GB/T 25915.1-2021 - Cleanrooms and associated controlled environments - Part 1: Classification of air cleanliness by particle concentration

GB/T 23465-2009 - Respiratory protective equipment - Practical performance evaluation methods

YD/T 4729-2024 - 5G wireless communication terminal electromagnetic radiation test configuration specification

5 Classification and status

International classification (ICS): 13.280

Chinese Standard Classification (CCS): C 71

Prefix YD/T: recommended standard.

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