

Notification of the National Telecommunications Commission

On Technical Standards for Telecommunication Equipment

Re: Radiocommunication Equipment for Model Control in the 72 MHz Frequency Band

Whereas it is deemed appropriate to prescribe technical standards and requirements in radiocommunication services, and pursuant to Section 29 (4) of the Radiocommunications Act B.E. 2498 (1955), and its amendments, together with Section 78 paragraph one of the Act on the Organization to Assign Radio Frequency and to Regulate the Broadcasting and Telecommunication Services B.E. 2543 (2000), the National Telecommunications Commission hereby issues the Notification on Technical Standards for Telecommunication Equipment regarding Radiocommunication Equipment for Model Control in the 72 MHz Frequency Band, as detailed in the Standard No. NTC TS 007 – 2548 appended hereto.

Issued on the 29th day of August B.E. 2548 (2005)

General Choochart Promphrasid

Chairman of the National Telecommunications Commission



Technical Standards for Telecommunication Equipment

NTC TS 007 – 2548

Radiocommunication Equipment for Model Control In the 72 MHz Frequency Band

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**Technical Standards for Telecommunication Equipment:
Radiocommunication Equipment for Model Control
In the 72 MHz Frequency Band**

1. Scope

This technical standard specifies the minimum technical characteristics for radiocommunication equipment for model control in the 72.000 - 72.475 MHz frequency band.

2. Technical Requirements

2.1 Rated carrier power

Definition **Rated carrier power** is the carrier power of the equipment declared by the manufacturer in its technical documents. The carrier power is average power delivered to the artificial antenna during a radio frequency cycle, in the absence of modulation. The measured carrier power shall be within ± 1.5 dB of the rated carrier power.

Limit The rated carrier power shall not exceed 750 milliwatts (mW).

2.2 Conducted spurious emissions

Definition **Conducted spurious emissions** are emissions at the antenna connector on a frequency or frequencies which are outside the necessary bandwidth and the level of which may be reduced without affecting the corresponding transmission of information. Spurious emissions include harmonic emissions, parasitic emissions, intermodulation products and frequency conversion products, but exclude out-of-band emissions.

Limit The power levels of conducted spurious emissions within the frequency range 9 kHz - 1 GHz shall be attenuated below the carrier power in the absence of modulation at least $43 + 10 \log P$ (dB) or 70 dBc, whichever is less stringent, where P is mean power in watt (W).

2.3 Frequency error

Definition **Frequency error** is the difference between the measured carrier frequency in the absence of modulation and the nominal frequency of the transmitter.

Limit The frequency error shall not exceed 1.5 kHz.

3. Methods of Measurement

3.1 Rated carrier power

The method of measurement shall follow ANSI/TIA/EIA-603-B [1], or any other equivalent method.

3.2 Conducted spurious emissions

The method of measurement shall follow ITU-R Rec. SM. 329-10 [2], ANSI/TIA/EIA-603-B, or any other equivalent method.

3.3 Frequency error

The method of measurement shall follow ANSI/TIA/EIA-603-B, or any other equivalent method.

Remarks:

[1] ANSI/TIA/EIA-603-B: Land mobile FM or PM communications equipment; Measurement and performance standards

[2] ITU-R Rec. SM. 329-10: Unwanted emissions in the spurious domain
