

# **PERMISSIBLE VALUES FOR THE INTENSITY OF SPURIOUS EMISSIONS OF THE TRANSMITTING DEVICES OF RADIO STATIONS PERFORMING SPACE RADIO COMMUNICATION**

(Article 7 paragraph 22 of the Ordinance Regulating Radio Equipment)

December 10, 1987

Ministry of Posts and Telecommunications Notification No. 950

Finally amended in No. 660 on December 25, 1996

The permissible values for the transmitting devices (except those of INMARSAT ship earth stations, etc.) of radio stations performing space radio communication (including radio stations used for testing said radio stations) which use emissions of a frequency of higher than 960 MHz and to which the provisions of Article 7 paragraph 1 do not apply and for the intensity of spurious emissions of said transmitting devices shall be stipulated as follows based on the provisions of Article 7 paragraph 15 of the Ordinance Regulating Radio Equipment (Radio Regulatory Commission Regulations No. 18 of 1950).

Ministry of Posts and Telecommunications Notification No. 294 of 1983 (the notification stipulating the permissible values for the intensity of spurious emissions of the radio stations performing space radio communication based on the provisions of Article 7 paragraph 9 of the Ordinance Regulating Radio Equipment) shall be repealed.

- 1 The transmitting equipment to which the provisions of Article 7 paragraph 1 of the Ordinance Regulating Radio Equipment do not apply shall be the transmitting equipment of the radio stations performing space radio communication which use emissions of a frequency of higher than 960 MHz (including the radio stations established with the aim of testing said radio stations), and shall simultaneously amplify two carriers or more using the same transmitting device.
- 2 The permissible values for the intensity of spurious emissions shall be as follows.
  - (1) Permissible values for the intensity of spurious emissions based on intermodulation product
    - a For the radio stations established in major locations on the surface of the earth or in the atmosphere of the earth, the average power of spurious emissions of each frequency supplied to the feeder shall be lower by 20 dB than the average power of the carrier in which the power value of the carriers commonly amplified is highest. However, when the frequency of spurious emissions is the frequency in a bandwidth other than the bandwidth (hereinafter referred to as “allocated bandwidth”) allocated to space radio communication service (except earth exploration satellite service (passive) and space research service (passive)) for a third area according to Article S5 of the Ordinance Regulating Radio Equipment, said average power shall be the value which is lower than the average power of the carrier by 40 dB or 100  $\mu$ W, whichever is larger.
    - b For the radio stations other than those stated in a. above, the average power of spurious emissions of each frequency supplied to the feeder shall be far lower than the average power of the carrier in which the power value of the carriers commonly amplified is highest. However, when the frequency of spurious emissions is a frequency other than that in the assigned bandwidth, said

average power shall be lower by 30 dB in the 4 kHz band than the output power in which the power amplifier is saturated by a single unmodulated wave.

- (2) Permissible values for the intensity of spurious emissions except intermodulation product  
For the transmitting equipment in which the average power of the fundamental frequency is 10 W or lower, said permissible value shall be 100  $\mu$ W or lower, and for the transmitting equipment in which the average power of the fundamental frequency is higher than 10 W, said permissible value shall be lower by 50 dB than the average power of the fundamental frequency and 100 mW or lower.