

The Outline of Proposed Amendments to Ministerial Ordinance

1. Item

Partial amendment of Regulations for Radio Equipment

2. Amendments to Ministerial Ordinances

- Ordinance Regulating Radio Equipment [Partial amendment]
- Ordinance Concerning Technical Regulations Conformity Certification of Specified Radio Equipment [Partial amendment]
- 2013 The Ministry of Internal Affairs and Communications Notification No. 323. (Radio equipment specified to be announced separately by the Minister for Internal Affairs and Communications) [Partial amendment]
- Notification (Method of measuring the incident power density from radio equipment) [Newly established]

3. Reasons for the amendments

Ministry of Internal Affairs and Communications (MIC) will establish the exposure limit value of incident power density from the radio equipment operating in close proximity to the human body (frequency over 6GHz), in accordance with Draft ICNIRP Guidelines “GUIDELINES FOR LIMITING EXPOSURE TO TIME-VARYING ELECTRIC, MAGNETIC AND ELECTROMAGNETIC FIELDS (100 kHz TO 300 GHz)” (July 2018).

In addition, MIC will establish the method of measuring the incident power density from radio equipment in accordance with IEC TR 63170 Ed. 1.0, “Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz” (August 2018).

4. Outline of the amendments

MIC will establish the following regulations which will be applied to the radio equipment operating in close proximity to the human body.

(1) Ordinance Regulating Radio Equipment

It will provide the exposure metric and limit value of incident power density for the radio equipment operating within 20 cm from the human body as below:

Frequency Range	Limit value of incident power density measured in general public environment (averaged over 6 minutes)
>6 GHz – 30 GHz	2 mW/cm ² (averaged over a 4 cm ²)
>30 GHz – 300 GHz	2 mW/cm ² (averaged over a 1 cm ²)

(2) Ordinance Concerning Technical Regulations Conformity Certification of Specified Radio Equipment

It will require the radio equipment to pass the test item of incident power density measurement in order to certify its conformity to the technical regulations.

(3) 2013 The Ministry of Internal Affairs and Communications Notification No. 323. (Radio equipment specified to be announced separately by the Minister for Internal Affairs and Communications)

It will provide the radio equipment outside the scope of these regulations as below:

Frequency Range	Antenna power limit measured in general public environment in case of exclusion from the regulations (averaged over 6 minutes)
> 6 GHz – 30 GHz	8 mW
>30 GHz– 300 GHz	2 mW

(4) Notification (Method of measuring the incident power density from radio equipment)

It will provide method of measuring the incident power density at the human body and head.

5. Proposed date of entry into force
April 2019