



Short Range Devices

Version 0.1

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Article (1)

Definitions

- 1.1 In applying these Regulations, the following terms shall have the following meanings unless the context requires otherwise, whereas any term undefined in the following shall be defined in line with the Federal Law by Decree No. 3 of 2003 as amended its Executive Order and Radiocommunications Policy:
- 1.1.1 “**Applicant**” means any Person who has applied for a License or an Authorization in accordance with the Telecom Law or other Policy Instruments issued by the Authority.
- 1.1.2 “**Application**” means the request for issuance of a License or an Authorization, received at the Authority on prescribed forms as per the procedure in vogue.
- 1.1.3 “**Class Authorization**” means a Radio Frequency Authorization which permits the operation of Wireless Equipment by any Person within designated frequency bands subject to any Terms and Conditions stipulated therein.
- 1.1.4 “**Harmful Interference**” means Interference which impairs the functioning of a radiocommunication service or which materially degrades or obstructs or repeatedly interrupts Radiocommunication.
- 1.1.5 “**Industrial, Scientific, Medical (ISM) devices**” means Telecommunications Apparatus designed to generate and use locally radio frequency energy for industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of telecommunications.
- 1.1.6 “**National Spectrum Plan**” means Radio Frequency Allocation plan for the UAE approved by the Board and any modifications thereof.
- 1.1.7 “**Person**” will include ‘juridical entities’ as well as ‘natural persons’.
- 1.1.8 “**Primary Services**” means Radio services having a higher priority and protection from harmful interference when notified than secondary Radio Services. The name of these radio services appear as capital letters in the National Spectrum Plan.
- 1.1.9 “**Radio Frequency Authorization**” means a Radio Spectrum Authorization issued by the Authority, which permits the use of Radio Frequency subject to terms and conditions set out therein.
- 1.1.10 “**Secondary Basis**” means not to cause harmful interference to other radio stations and not to claim protection from other radio stations.

Article (2)

Permitted Usage

- 2.1 Usage of short range devices is allowed on Secondary Basis. Short range devices are used as fixed and mobile stations for telecommunication applications and as ISM devices for in Industrial, Scientific and Medical (ISM) application. Short range devices have applications in many fields and so generally categorized as non-specific which allows their use in diverse applications like keyless car entry, toy remotes, Bluetooth, etc.
- 2.2 Short range devices require to be registered with the Authority under the type approval regime and the use of short range devices and ISM devices is allowed under Class Authorization whereby no Radio Frequency Authorization is required.
- 2.3 The use of Low Power Wireless Equipment requires Radio Frequency Authorization.
- 2.4 The Wireless Equipment can be identified as Short Range Devices, Low Power Wireless Equipment or otherwise based on the following criteria:
- 2.4.1 **Short Range Device (SRD)**: if meet the technical condition in Article (3) of these Regulations.
- 2.4.2 **Low Power Wireless Equipment (LPWE)**: if meet the technical condition mention in Article (4) of these Regulations.
- 2.4.3 Any Wireless Equipment which is not within the identified frequency range or radiated power exceeds the maximum radiated power criteria identified in this Regulation, will then be treated as any other fixed or mobile station. Spectrum charges identified for fixed or mobile services shall apply.

Article (3)

Technical Conditions for Short Range Devices

- 3.1. The technical conditions as given in these regulations shall apply on the use of SRD:

Frequency range	Max radiated power or magnetic field strength	Application Notes
9-315 kHz	30 dB (μ A/m) at 10 m	Non-specific
9.0-59.75 kHz	72 dB (μ A/m) at 10 m	Non-specific
59.750-60.250 kHz	42 dB (μ A/m) at 10 m	Non-specific
60.250-70.000 kHz	69 dB (μ A/m) at 10 m	Non-specific
70-119 kHz	42 dB (μ A/m) at 10 m	Non-specific
119-135 kHz	66 dB (μ A/m) at 10 m	Non-specific

135-140 kHz	42 dB (μA/m) at 10 m	Non-specific
140-148.5 kHz	37.7 dB (μA/m) at 10 m	Non-specific
148.5 kHz-5 MHz	- 15 dB (μA/m) at 10 m	Non-specific
400-600 kHz	- 8 dB (μA/m) at 10 m	Non-specific
315-600 kHz	- 5 dB (μA/m) at 10 m	Non-specific
3155-3195 kHz	13.5 dB (μA/m) at 10 m	Wireless Hearing Aids
3195-3400 kHz	13.5 dB (μA/m) at 10 m	Non-specific
5-30 MHz	- 20 dB (μA/m) at 10 m	Non-specific
6765-6795 kHz	42 dB (μA/m) at 10 m	Non-specific
7 400-8 800 kHz	9 dB (μA/m) at 10 m	Non-specific
10.2-11.0 MHz	9 dB (μA/m) at 10 m	Non-specific
11.1-20 MHz	- 7 dB (μA/m) at 10 m	Non-specific
13.553-13.567 MHz	60 dB (μA/m) at 10 m	RFID and EAS only
26.957-27.283 MHz	42 dB (μA/m) at 10 m	Non-specific
29.7-47.0 MHz	10 mW	Non-specific
30-37.5 MHz	1 mW	Non-specific
40.66-40.7 MHz	10 mW	Non-specific
87.5-108 MHz	50 nW	Audio Transmitter Devices
169.4-174.0 MHz	10 mW	Non-specific
174.0-216.0 MHz	50 mW	Non-specific
312-315 MHz	50 mW	Keyless car entry
401-402 MHz 405-406 MHz	25 μW	For Microphones
402-405 MHz	25 μW	For Medical Devices
433.050-434.790 MHz	50 mW	Non-specific
863.0-870.0 MHz	50 mW	Non-specific
870.0-875.4 MHz	10 mW	Non-specific
2400-2500 MHz	100 mW	Non-specific
5725-5875 MHz	50 mW	Non-specific
9200-9975 MHz	25 mW	Non-specific

Frequency range	Max radiated power or magnetic field strength	Application Notes
13.4-14.0 GHz	25 mW	Non-specific
17.1-17.3 GHz 24.00-24.25 GHz 61.0-61.5 GHz 122-123 GHz 244-246 GHz	100 mW	Non-specific

4.5 – 7.0 GHz 8.5 – 10.6 GHz 24.05 – 27.0 GHz 57.0 – 64.0 GHz 75.0 – 85.0 GHz	24 dBm e.i.r.p 30 dBm e.i.r.p. 43 dBm e.i.r.p. 43 dBm e.i.r.p. 43 dBm e.i.r.p.	For tank level probing radars only
76-77 GHz	55 dBm peak power 50 dBm average power 23.5 dBm average power	For pulsed radar only

Article (4)

Technical Conditions for Low Power Wireless Equipment

- 4.1 The technical conditions as given in these regulations shall apply on the use of LPWE.

Frequency range	Max radiated power or magnetic field strength	Application Notes
433.050-434.790 MHz	100 mW	Non-specific
470-790 MHz	10 mw / 100mW/ 1 W	Electronic Field Production
863.0-870.0 MHz	100 mW	Non-specific
2400-2500 MHz	100-200 mW	Non-specific
5725-5875 MHz	50 -200 mW	Non-specific