

**§95.1113**

(6) Location of transmitter (coordinates, street address, building);

(7) Point of contact for the authorized health care provider (name, title, office, phone number, fax number, e-mail address).

(b) An authorized health care provider shall notify the frequency coordinator whenever a medical telemetry device is permanently taken out of service, unless the device is replaced with another transmitter utilizing the same technical characteristics as those reported on the effective registration. An authorized health care provider shall maintain the information contained in each registration current in all material respects, and shall notify the frequency coordinator when any change is made in the location or operating parameters previously reported which is material.

**§95.1113 Frequency coordinator.**

(a) The Commission will designate a frequency coordinator(s) to manage the usage of the frequency bands for the operation of medical telemetry devices.

(b) The frequency coordinator shall

(1) Review and process coordination requests submitted by authorized health care providers as required in §95.1111;

(2) Maintain a database of WMTS use;

(3) Notify users of potential conflicts; and

(4) Coordinate WMTS operation with radio astronomy observatories and Federal Government radar systems as specified in §§95.1119 and 95.1121.

(5) Notify licensees—who are operating in accordance with §90.259(b)—of the need to comply with the field strength limit of §90.259(b)(11) prior to initial activation of WMTS equipment in the 1427–1432 MHz band.

(6) Notify licensees—who are operating in 1392–1395 MHz band in accordance with subpart I of part 27—of the need to comply with the field strength limit of §27.804 prior to initial activation of WMTS equipment in the 1395–1400 MHz band.

[65 FR 44008, July 17, 2000, as amended at 67 FR 41682, June 20, 2002]

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**§95.1115 General technical requirements.**

(a) *Field strength limits.* (1) In the 608–614 MHz band, the maximum allowable field strength is 200 mV/m, as measured at a distance of 3 meters, using measuring instrumentation with a CISPR quasi-peak detector.

(2) In the 1395–1400 MHz and 1427–1429.5 MHz bands, the maximum allowable field strength is 740 mV/m, as measured at a distance of 3 meters, using measuring equipment with an averaging detector and a 1 MHz measurement bandwidth.

(b) *Undesired emissions.* (1) Out-of-band emissions below 960 MHz are limited to 200 microvolts/meter, as measured at a distance of 3 meters, using measuring instrumentation with a CISPR quasi-peak detector.

(2) Out-of-band emissions above 960 MHz are limited to 500 microvolts/meter as measured at a distance of 3 meters, using measuring equipment with an averaging detector and a 1 MHz measurement bandwidth.

(c) *Emission types.* A wireless medical telemetry device may transmit any emission type appropriate for communications in this service, except for video and voice. Waveforms such as electrocardiograms (ECGs) are not considered video.

(d) *Channel use.* (1) In the 1395–1400 MHz and 1427–1429.5 MHz bands, no specific channels are specified. Wireless medical telemetry devices may operate on any channel within the bands authorized for wireless medical telemetry use in this part.

(2) In the 608–614 MHz band, wireless medical telemetry devices utilizing broadband technologies such as spread spectrum shall be capable of operating within one or more of the following channels of 1.5 MHz each, up to a maximum of 6 MHz, and shall operate on the minimum number of channels necessary to avoid harmful interference to any other wireless medical telemetry devices.

- 608.0–609.5 MHz
- 609.5–611.0 MHz
- 611.0–612.5 MHz
- 612.5–614.0 MHz

(3) Channel usage is on a co-primary shared basis only, and channels will

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not be assigned for the exclusive use of any entity.

(4) Authorized health care providers, in conjunction with the equipment manufacturers, must cooperate in the selection and use of frequencies in order to reduce the potential for interference with other wireless medical telemetry devices, or other co-primary users. Operations in the 608-614 MHz band (television channel 37) are not protected from adjacent band interference from broadcast television operating on channels 36 and 38.

(e) *Frequency stability.* Manufacturers of wireless medical telemetry devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all of the manufacturer's specified conditions.

[65 FR 44008, July 17, 2000, as amended at 67 FR 6194, Feb. 11, 2002; 68 FR 68547, Dec. 9, 2003]

**§ 95.1117 Types of communications.**

(a) All types of communications except voice and video are permitted, on both a unidirectional and bidirectional basis, provided that all such communications are related to the provision of medical care. Waveforms such as electrocardiograms (ECGs) are not considered video.

(b) Operations that comply with the requirements of this part may be conducted under manual or automatic control, and on a continuous basis.

**§ 95.1119 Specific requirements for wireless medical telemetry devices operating in the 608-614 MHz band.**

For a wireless medical telemetry device operating within the frequency range 608-614 MHz and that will be located near the radio astronomy observatories listed below, operation is not permitted until a WMTS frequency coordinator specified in § 95.1113 has coordinated with, and obtain the written concurrence of, the director of the affected radio astronomy observatory before the equipment can be installed or operated

(a) Within 80 kilometers of:

(1) National Astronomy and Ionosphere Center, Arecibo, Puerto Rico: 18°20'38.28" North Latitude, 66°45'09.42" West Longitude.

(2) National Radio Astronomy Observatory, Socorro, New Mexico: 34°04'43" North Latitude, 107°37'04" West Longitude.

(3) National Radio Astronomy Observatory, Green Bank, West Virginia: 38°26'08" North Latitude, 79°49'42" West Longitude.

(b) Within 32 kilometers of the National Radio Astronomy Observatory centered on:

Very long baseline array stations	Latitude (north)	Longitude (west)
Pie Town, NM .....	34°18'	108°07'
Kitt Peak, AZ .....	31°57'	111°37'
Los Alamos, NM .....	35°47'	106°15'
Fort Davis, TX .....	30°38'	103°57'
North Liberty, IA .....	41°46'	91°34'
Brewster, WA .....	48°08'	119°41'
Owens Valley, CA .....	37°14'	118°17'
Saint Croix, VI .....	17°46'	64°35'
Mauna Kea, HI .....	19°49'	155°28'
Hancock, NH .....	42°56'	71°59'

The National Science Foundation point of contact for coordination is: Spectrum Manager, Division of Astronomical Sciences, NSF Room 1045, 4201 Wilson Blvd., Arlington, VA 22230, telephone: 703-306-1823.

**§ 95.1121 Specific requirements for wireless medical telemetry devices operating in the 1395-1400 MHz and 1427-1429.5 MHz bands.**

Due to the critical nature of communications transmitted under this part, the frequency coordinator in consultation with the National Telecommunications and Information Administration shall determine whether there are any Federal Government systems whose operations could affect, or could be affected by, proposed wireless medical telemetry operations in the 1395-1400 MHz and 1427-1429.5 MHz bands. The locations of government systems in these bands are specified in footnotes US351 and US352 of § 2.106 of this chapter.

[67 FR 6194, Feb. 11, 2002]

**§ 95.1123 Protection of medical equipment.**

The manufacturers, installers and users of WMTS equipment are cautioned that the operation of this equipment could result in harmful interference to other nearby medical devices.