

§ 90.1215

47 CFR Ch. I (10–1–20 Edition)

Center frequency (MHz)	Channel Nos. employed	Lower frequency (MHz)	Upper frequency (MHz)
4947.5 .....	1 to 7* .....	4940	4955
4952.5 .....	6 to 8 .....	4945	4960
4957.5 .....	7 to 9 .....	4950	4965
4962.5 .....	8 to 10 .....	4955	4970
4967.5 .....	9 to 11 .....	4960	4975
4972.5 .....	10 to 12 .....	4965	4980
4977.5 .....	11 to 13 .....	4970	4985
4982.5 .....	12 to 18* .....	4975	4990

\* Licensees should avoid using these channels in aggregations unless all other channels are blocked.

(4) 20 MHz bandwidth aggregation:

Center frequency (MHz)	Channel Nos. employed	Lower frequency (MHz)	Upper frequency (MHz)
4950 .....	1 to 8* .....	4940	4960
4955 .....	6 to 9 .....	4945	4965
4960 .....	7 to 10 .....	4950	4970
4965 .....	8 to 11 .....	4955	4975
4970 .....	9 to 12 .....	4960	4980
4975 .....	10 to 13 .....	4965	4985
4980 .....	11 to 18* .....	4970	4990

\* Licensees should avoid using these channels in aggregations unless all other channels are blocked.

[77 FR 45506, Aug. 1, 2012, as amended at 78 FR 36684, June 19, 2013]

§ 90.1215 Power limits.

The transmitting power of stations operating in the 4940–4990 MHz band must not exceed the maximum limits in this section.

(a)(1) The maximum conducted output power should not exceed:

Channel bandwidth (MHz)	Low power maximum conducted output power (dBm)	High power maximum conducted output power (dBm)
1 .....	7	20
5 .....	14	27
10 .....	17	30
15 .....	18.8	31.8
20 .....	20	33

(2) High power devices are also limited to a peak power spectral density of 21 dBm per one MHz. High power devices using channel bandwidths other than those listed above are permitted; however, they are limited to peak power spectral density of 21 dBm/MHz. If transmitting antennas of directional gain greater than 9 dBi are used, both the maximum conducted output power and the peak power spectral density should be reduced by the amount in

decibels that the directional gain of the antenna exceeds 9 dBi. However, high power point-to-point and point-to-multipoint operations (both fixed and temporary-fixed rapid deployment) may employ transmitting antennas with directional gain up to 26 dBi without any corresponding reduction in the maximum conducted output power or spectral density. Corresponding reduction in the maximum conducted output power and peak power spectral density should be the amount in decibels that the directional gain of the antenna exceeds 26 dBi.

(b) Low power devices are also limited to a peak power spectral density of 8 dBm per one MHz. Low power devices using channel bandwidths other than those listed above are permitted; however, they are limited to a peak power spectral density of 8 dBm/MHz. If transmitting antennas of directional gain greater than 9 dBi are used, both the maximum conducted output power and the peak power spectral density should be reduced by the amount in decibels that the directional gain of the antenna exceeds 9 dBi.

(c) The maximum conducted output power is measured as a conducted emission over any interval of continuous transmission using instrumentation