

**§ 78.111 Frequency tolerance.**

Stations in this service shall maintain the carrier frequency of each authorized transmitter to within the following percentage of the assigned frequency.

Frequency band (MHz)	Frequency tolerance	
	Fixed (percent)	Mobile (percent)
1,990 to 2,110 .....	.....	0.005
6,425 to 6,525 .....	.....	0.005
6,875 to 7,125 .....	.....	0.005
12,700 to 13,250 <sup>1</sup> .....	0.005	0.005
17,700 to 18,820 .....	0.003	.....
18,820 to 18,920 .....	0.001	.....
18,920 to 19,700 .....	0.003	.....

<sup>1</sup> Stations that employing vestigial sideband AM transmissions shall maintain their operating frequency within 0.0005% the visual carrier, and the aural carrier shall be 4.5 MHz± 1 kHz above the visual carrier frequency.

[52 FR 7145, Mar. 9, 1987, as amended at 68 FR 12776, Mar. 17, 2003]

**§ 78.113 Frequency monitors and measurements.**

(a) The licensee of each CARS station shall employ a suitable procedure to determine that the carrier frequency of each transmitter is maintained within the tolerance prescribed in § 78.111 at all times. The determination shall be made, and the results thereof entered in the station records; when a transmitter is initially installed; when any change is made in a transmitter which may affect the carrier frequency or the stability thereof; or in any case at intervals not exceeding one year.

(b) The choice of apparatus to measure the operating frequency is left to the discretion of the licensee. However, failure of the apparatus to detect departures of the operating frequency in excess of the prescribed tolerance will not be deemed an acceptable excuse for the violation.

[37 FR 3292, Feb. 12, 1972, as amended at 41 FR 29696, July 19, 1976; 50 FR 23422, June 4, 1985]

**§ 78.115 Modulation limits.**

(a) If amplitude modulation is employed, negative modulation peaks shall not exceed 100 percent modulation.

[37 FR 3292, Feb. 12, 1972, as amended at 45 FR 78696, Nov. 26, 1980]

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