

4. Spurious Emissions  
Part A: at antenna terminals (Part 2.991)

Equipment:

same as for occupied bandwidth tests plus:  
R.F. Signal Generator, Marconi Model 2022

Procedure:

- (a) Connect the M15 (FCC ID BULM15) to the spectrum analyzer via the r.f. wattmeter and attenuators, using RG-58A/U coax and connectors as necessary
- (b) Apply 189 mv rms audio signal (2500 Hz) to the microphone input terminal on mic jack (16 dB above input that gives 50% modulation, same as for occupied bandwidth tests)
- (c) Remove modulation, energize transmitter, and make sure that the r.f. wattmeter and spectrum analyzer indicate the same carrier power, within 1 dB.
- (d) reapply modulation, energize transmitter, and scan spectrum from lowest frequency generated in transmitter (1/3 times 126.2 Mhz) to ten times the carrier frequency (1262 Mhz). Record readings.

Results: M15 (FCC ID BULM15) Unit #2  
Antenna-Conducted Emissions  
January 29, 1991

Frequency	dBm	dBc
42.07	-25	-63
84.13	-35	-72
126.20	38	0
168.27	-27	-65
210.33	-52	-90
252.40	-20	-58
378.60	-34	-72
504.80	-17	-55
631.00	-20	-58
757.20	-36	-74
883.40	-47	-85
1009.60	-45	-83
1135.80	-58	-96
1262.60	-51	-89

Part B: Field Strength of Spurious Radiations - Part 2.993

Equipment:

M15 Preproduction Unit #2 (FCC ID BULM15)  
Battery/Speaker Wiring Harness, including 4 ohm speaker  
Automotive Battery, 13 volts  
Antenna, Model AV-5 vertical 1/4 wavelength cut for 126.2 Mhz  
Coaxial cable, RG-58A/U, with appropriate connectors, 3 ft. long