

1.1.1 Field Strength of Intentional Radiator Inside of Band

Per FCC Part 15, Subpart C (15.231 (e)) at 3 meters

The EUT was compliant with CFR 47, 15.231 (e) field strength of intentional radiator.

LOJACK		EUT: KF-100		
Transmitter Field Strength	Frequency	Corrected		
	MHz	Measurement	Limit	Delta
		(dBuV/m)	(dBuV/m)	(dB)
	433.92	65.6	72.8	-7.2
	433.92	47.1	72.8	-25.7

- Frequencies relative to the Limit.
- Reference Appendix A for all data taken.

1.1.2 Emissions Radiated Outside of Band

Per FCC Part 15, Subpart C at 3 meters

The EUT was compliant with CFR 47, 15.231 (e) radiated emissions requirements.

Measurements of radiated emission data were taken at 433 MHz

Table 3.1.5(1)

LOJACK					EUT: KF-100				
Freq. (MHz)	Meas'd (dBuV)	Amp Factors (dB)	Cable Factors (dB)	Antenna Factors (dB)	50% Duty Cycle (dB)	Total Factors (dB)	Corrected signal (dBuV/m)	Limit (dBuV/m)	Delta (dB)
867.86	59.8	-51.0	10.8	24.5	-6.0	-21.7	38.1	53.0	-14.9
867.85	68.4	-51.0	10.8	24.5	-6.0	-21.7	46.7	53.0	-6.3
1302.00	49.0	-32.9	0.6	25.4	-6.0	-7.4	36.1	53.0	-16.9
1736.00	46.2	-32.5	0.7	27.2	-6.0	-5.2	35.6	53.0	-17.4
2170.00	50.7	-32.7	0.9	28.9	-6.0	-1.7	41.8	53.0	-11.2
2603.00	47.4	-30.7	1.2	29.9	-6.0	-0.4	47.0	53.0	-6.0

- Six highest frequencies relative to the Limit.
- Reference Appendix A for all data taken.

1.1.3 Occupied Bandwidth

The occupied bandwidth at the transceiver's fundamental frequency output was measured using a HP 8568B spectrum analyzer. The spectrum analyzer was adjusted as follows:

Frequency: 433.9 MHz
Input Attenuation: 10. dB
Scan Width: .100 kHz/div
Vertical Scale: 10 dB/div

Resolution Bandwidth: 100 kHz
Reference Level: 100 dBuV
Detector: Peak
Max Hold Multiple Sweeps