

1100 Falcon Ave.
Glencoe, MN 55336



Tele: 320-864-4444
Fax: 320-864-6611

"Your Agent to Product Certifications and Licenses Throughout the World"

Subject: FCC ID: ORXRF10K Form 731 Confirmation Number: EA95835 modification submittal

Correspondence Reference Number: 10626

November 12, 1999

Addendum to FCC ID: ORXRF10K, Form 731 Confirmation Number: EA95835

Added information on the RF Transmitter:

The transmitter does not operate over the continuous range of 902 to 928 Mhz. Instead, it only occupies the range of 902-904 Mhz for the Short Antenna (Portable Station) and 926-928 Mhz for the Long Antenna model: (Base Station). The earlier submittal covered the required transmitter data for the 902-904 Mhz range and this added information covers the additional information for the transmitter operating in the 926-928 Mhz range. Since the device only operates at two 2 Mhz wide regions in this frequency spectrum, we only test once at the low range and once at the high range.

Ewave, Inc.

Model: RF10K RF Transceiver

Temperature: 64 Deg F.

Humidity: 63 % R.H.

Test Technician: Gerald Heinen

Preliminary tests were performed on antenna polarities of Vertical and Horizontal. Vertical was the worst case so all data was taken with an antenna polarity of Vertical.

Certification testing was performed at the OATS site with an antenna distance of 3 meters.

TRANSMITTER:

The limit for section 15.249 is 50 mV/m. All data is taken with the required Quasi-Peak or Average Detector. This limit converted to dBuV is the limit shown in the next table.

Freq (Mhz)	Ampl (dbuV)	Ant Corr Fac	Preamp Gain (dB)	Cable Corr Fac	Corr Data (dBuV)	FCC 15.249 limit	Margin
926.890	90.3	23.1	33	0.52	80.92	93.979	-13.059
1853.780	43.3	24.6	33	0.6	35.5	93.979	-58.479
2780.67	39.9	27.9	33	0.68	35.48	93.979	-58.499

Minimum Passing Margin

NOTE: All signals above and including 2708 Mhz were in the noise floor. The noise floor was measured at 24.7 dBuV.

**Ewave Model: RF10K Long Antenna (926-928 Mhz)
FCC Part 15 Radiated Emissions Test Configuration**



**Ewave Model: RF10K Long Antenna (926-928 Mhz)
Transceiver Assembly**



Ewave Model: RF10K Long Antenna (926-928 Mhz)
Transceiver Assembly Internal PC Board

