

## **§1.1310 & §2.1091 - RF EXPOSURE**

According to §2.1091 & §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure was measured.

### **Limits for General Population/Uncontrolled Exposure**

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minute)
<b>Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

\* = Plane-wave equivalent power density

### **Test Equipment List and Details**

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Cal. Date</b>
W & G	EM Radiation, Monitor	EMR-20	B-0054	2005-02-24
W & G	EM Radiated, Probe	EMR-20-1	22449020	2005-02-24

\* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

### **Environmental Conditions**

Temperature:	20° C
Relative Humidity:	58%
ATM Pressure:	1018 mbar

*The testing was performed by Daniel Deng on 2005-04-11.*

## Measurement Results

Frequency (MHz)	Measurement (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Separation Distance (cm)
836.6	0.09	0.533	30
1880	0.02	1.00	30

The Power density at measured frequency at 30 cm is 0.09 mW/cm<sup>2</sup> within the limit of 0.533 mW/cm<sup>2</sup> for 800MHz frequency band & 0.02 mW/cm<sup>2</sup> within the limit of 1.0 mW/cm<sup>2</sup> for 1900MHz frequency band.

## Setup Photos

