

§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 ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	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

Manufacturer	Description	Model	Serial Number	Cal. Date
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 ²)	Limit (mW/cm ²)	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/cm² within the limit of 0.533 mW/cm² for 800MHz frequency band & 0.02 mW/cm² within the limit of 1.0 mW/cm² for 1900MHz frequency band.

Setup Photos

