



### RF Exposure Compliance Requirement

#### 1. Standard requirement

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 limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

#### (a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm <sup>2</sup> )	Averaging Times  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100000			5	6

#### (b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm <sup>2</sup> )	Averaging Times  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/500	30
1500-100000			1.0	30

Note: f=frequency in MHz; \*Plane-wave equivalent power density



2. MPE Calculation Method

E (V/m)=(30\*P\*G)<sup>0.5</sup>/d Power Density: Pd(W/m<sup>2</sup>)=E<sup>2</sup>/377

E=Electric Field (V/m)

P=Peak RF output Power (W)

G=EUT Antenna numeric gain (numeric)

d= Separation distance between radiator and human body (m)

The formula can be changed to

Pd= (30\*P\*G)/(377\*d<sup>2</sup>)

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

3. Calculated Result and Limit

Normal mode:

Table with 7 columns: Frequency (MHz), Antenna Gain (dBi), Peak Output Power (dBm), Peak Output Power (mW), Power Density (S) (mW/cm²), Limit of Power Density (S) (mW/cm²), Test Result. Rows for frequencies 2.402, 2.441, and 2.480 MHz.

EDR mode:

Table with 7 columns: Frequency (MHz), Antenna Gain (dBi), Peak Output Power (dBm), Peak Output Power (mW), Power Density (S) (mW/cm²), Limit of Power Density (S) (mW/cm²), Test Result. Rows for frequencies 2.402, 2.441, and 2.480 MHz.

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