1. Applicable Standard

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.

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E 2, H 2 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
1500-10000			5	6

a) Limits for Occupational / Controlled Exposure

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 ²)	Averaging Times E 2, H 2 or S (minutes)	
0.3-3.0	614	1.63	(100)*	30	
3.0-30	824/f	2.19/f	(180/f)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			F/1500	30	
1500-10000			1.0	30	

Note : f=frequency in MHz

*=Plane-wave equivalent power density

2. MPE Calculation Method

- S = power density
- P = power input to antenna
- G = power gain of the antenna in the direction of interest relative to an isotropic radiator
- R = distance to the center of radiation of the antenna

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

$S = PG/4\pi R^2$

3. Calculated Result and Limit

Mode Frequence (MHz)		Peak Output Power		Antenna Gain		Power Density (S)	Limit of Power Density (S)	Result
		(dBm)	(mW)	(dBi)	(numeric)	(mW/cm^2)	(mW/cm2)	
BDR	2402.00	-3.860	0.411	2.010	1.589	0.000	1.000	PASS
	2442.00	-4.060	0.393	2.010	1.589	0.000	1.000	PASS
	2480.00	-5.540	0.279	2.010	1.589	0.000	1.000	PASS
BLE	2402.00	-3.060	0.494	2.010	1.589	0.000	1.000	PASS
	2442.00	-3.790	0.418	2.010	1.589	0.000	1.000	PASS
	2480.00	-4.580	0.348	2.010	1.589	0.000	1.000	PASS