3. 6 RF Exposure Requirements
3.6.1 Test Equipment
Please refer to section 6 this report.

3.6.2 Limit
According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in 1.1307(b)(1) of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f²)	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
NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.
NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

3.6.3 Test Result

Evaluation of RF Exposure Compliance Requirements MPE Prediction of MPE according to OET Bulletin 65	
RF Exposure Requirements	**Compliance with FCC Rules**
Calculation Method of RF Safety Distance: $S = PG/4\pi r^2 = EIRP/4\pi r^2$ Where: P: power input to the antenna in mW EIRP: Equivalent (effective) isotropic radiated power. S: power density mW/cm2 G: numeric gain of antenna relative to isotropic radiator r: distance to centre of radiation in cm $r = \sqrt{PG/4\pi S}$	**Power density** $S = PG/4\pi r^2 = EIRP/4\pi r^2$ $= 0.964 mW/cm^2$ R = 100cm Where: Max Average Power = 1.92 W , f = 9410MHz Antenna gain = 18 dBi EIRP = 121143.81mW MPE limit for General Population/Uncontrolled exposure at prediction frequency: 1.0 mW/cm²