Bay Area Compliance Laboratories Corp. (Chengdu)

FCC§1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §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.

(B) Limits for General Population/Uncontrolled Exposure **Electric Field** Magnetic Field **Power Density** Frequency Range Averaging Time Strength (V/m) Strength (A/m) (mW/cm^2) (MHz) (minutes) 0.3-1.34 614 1.63 *(100) 30 1.34-30 824/f 2.19/f *(180/f²) 30 0.073 30-300 27.5 0.2 30 f/1500 30 300-1500 1 1 1500-100,000 1 1 1.0 30

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

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

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculation Formula:

Prediction of Power Density at the distance of the applicable MPE Limit

S = PG/4 π R² = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

Test Modes	Frequency (GHz)	E.I.R.P		Evaluation	Power	MPE Limit
		(dBm)	(mW)	Distance (cm)	Density (mW/cm ²)	(mW/cm ²)
LRP	60.163- 62.957	32	1585	20.00	0.32	1.0
MRP	60.48- 62.64	26	398	20.00	0.079	1.0

Note: The EIRP is the sum (in dB) of the power supplied to the antenna and the Gain of the antenna. The Gain of the antenna is 6 dBi in LRP Mode and 18 dBi in MRP Mode. The power supplied to the antenna is 26 dBm in LRP Mode and 8 dBm in MRP Mode.

Result: The device complied with the applicable MPE Limit at the 20 cm distance.