Radio Frequency Exposure Compliance

Electromagnetic Fields

RESULT: **Pass**

Test Specification

Test standard	:	FCC CFR Title 47, Part 2, Subpart J, Section 2.1091
Test limits	:	FCC CFR Title 47, Part 1, Subpart I, Section 1.1310

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 (minutes)
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
300-1,500			f/1500	30
1,500-100,000			1.0	30

This device is mobile device, and the applicant declares that the minimum separation distance is greater than 20cm, detail minimum distance refer to below calculation table. Therefore MPE measurement or computational modeling should be used to determine compliance.

MPE Calculation is based on the conducted power, and considering maximum power and antenna gain. The following formula is used to MPE evaluation.

The power density according to far-field model is:

$$S = \frac{P \times G_{(\theta,\phi)}}{4 \times \pi \times R^2}$$

Where:

P	= input power of the antenna.
G	= antenna gain relative to an isotropic antenna.
θ, ϕ	= elevation and azimuth angles.
R	= distance from the antenna to the point of investigation.

Test Result:

Operation Frequency (GHz)	Maximum EIRP (dBm)	Maximum EIRP (mW)	Min. Distance (cm)	Calculation (mW/cm^2)	Limit (mW/cm^2)	Result
76.65	26.66	463.447	20	0.092	1	PASS