

1 Safety Human Exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

Test standard : CFR47 FCC Part 2: Section 2.1091
CFR47 FCC Part 1: Section 1.1310
FCC KDB Publication 447498 v06, section 7
FCC CFR 47 Part 1(1.1310) KDB 680106 D01 v03

➤ FCC requirements

a) EUT RF Exposure Evaluation operations, Worst Case mode

For BLE

Test Mode	Measured conducted Power		Threshold power @5mm		Verdict
	dBm	mW	dBm	mW	
BLE(GFSK)	-1.0	0.794	10	10	Compliant

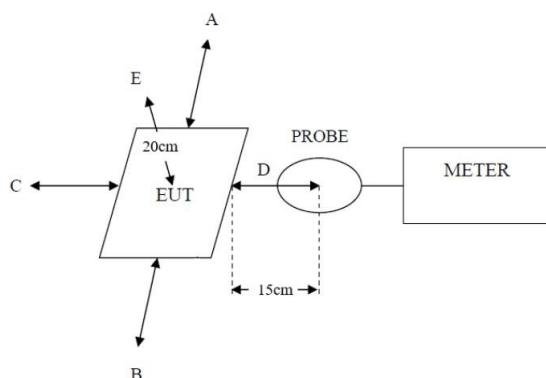
For Wireless charger

According to the table 1 of FCC Part 2.1310, the reference limit as below:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			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/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

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

Test Setup:



Test Result:

Table: H-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

EUT Test Mode	Measured H-Field Strength Values (A/m)					50% Limit (A/m)	Limit (A/m)	Result
	Test Position Top	Test Position front	Test Position rear	Test Position left	Test Position right			
1% Battery Level	0.2568	0.2032	0.2488	0.2296	0.1816	0.815	1.63	Pass
50% Battery Level	0.2509	0.2021	0.2477	0.2295	0.1815	0.815	1.63	Pass
99% Battery Level	0.2560	0.2023	0.2474	0.2281	0.1805	0.815	1.63	Pass

b) EUT RF Exposure Evaluation simultaneous transmission operations

Simultaneous transmission mode	The sum of the ratios	Result
BLE + Wireless charging	< 1	Pass