

FCC ID: WWE-2IHQI0966

RF Exposure Evaluation

1 Measuring Standard

KDB 680106 RF Exposure Wireless Charging Apps v03r01

2 Requirements

According to the item 5 of KDB 680106 v03r01:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- (1) Power transfer frequency is less than 1MHz.
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit. Remark: Meet all the above requirements.

Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

requency range (MHz) Electric field strength (V/m)		Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)	
	(A) Limits for Occ	cupational/Controlled Ex	posures		
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	
300-1500	1	/	f/300	6	
1500-100,000	1	1	5	6	
	(B) Limits for Genera	l Population/Uncontrolle	ed 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	
300-1500	/	Ī	f/1500	30	
1500-100,000	/	1	1.0	30	

F=frequency in MHz

Shenzhen ZKT Technolgy Co., Ltd.

1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen,China





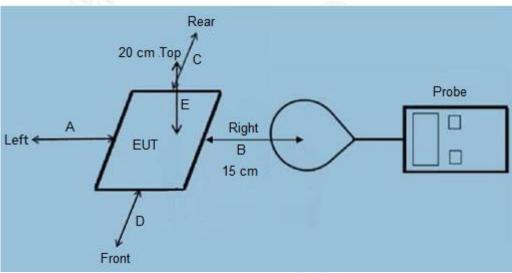


^{*=}Plane-wave equivalent power density

FF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).







4 Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (15 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 v03r01.

Remark: The EUT's test position A, B, C, D and E is valid for the E and H field measurements.







5 Test Instruments list

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Exposure Level Tester	Narda	ELT-400	N-0231	June. 26 2021	June. 25 2022
Magnetic field probe 100cm ²	Narda	ELT probe 100cm ²	M0675	June. 26 2021	June. 25 2022

6 Test Result

E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

			. <u> </u>		
Frequency Range	Test	Test	Test	Test	Limits
(MHz)	Position A	Position B	Position C	Position D	(V/m)
0.110-0.205	0.95	0.87	0.92	0.94	614

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency Range	Test	Test	Test	Test	Limits
(MHz)	Position A	Position B	Position C	Position D	(A/m)
0.110-0.205	0.45	0.87	0.65	0.88	1.63

E-Filed Strength at 20 cm from the edges surrounding the EUT (V/m)

Frequency	Test	Test	Test	Test	Test	Limits
Range (MHz)	Position A	Position B	Position C	Position D	Position E	(V/m)
0.110-0.205	0.92	0.82	0.89	0.90	0.87	614

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Limits
Range (MHz)	Position A	Position B	Position C	Position D	Position E	(A/m)
0.110-0.205	0.43	0.81	0.62	0.79	0.81	1.63

Shenzhen ZKT Technolgy Co., Ltd.

1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

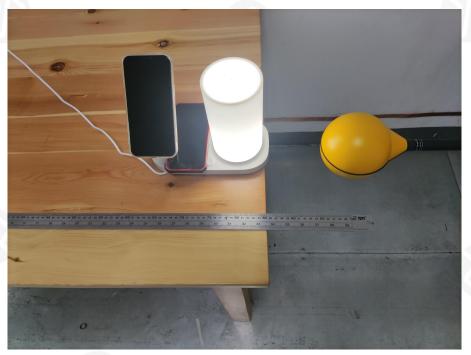
















+86-755-2233 6688



