Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE183974

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RF Exposure Evaluation FCC ID: 2AT2E-KT-BW01

1. Client Information

Applicant : Dongguan Kington Electronic Technology Co., Ltd.					
Address : 3/F, Building B, Abao Industrial Park No.160 LuYuan Road TangXi Town, DongGuan China					
Manufacturer	18	Dongguan Kington Electronic Technology Co., Ltd.			
Address	:	3/F, Building B, Abao Industrial Park No.160 LuYuan Road TangXia Town, DongGuan China			

2. General Description of EUT

EUT Name		Bamboo wireless charger						
Models No.	6	KT-BW01	KT-BW01					
Sample ID		20210922-10-01						
Model Difference								
		Operation Frequency:	113KHz-205KHz					
Product Description	:	Modulation Type:	ASK					
		Antenna:	Coil Antenna					
Power Supply	1	Input: DC 5V/2A, 9V/2A Output: 5W/7.5W/10W/						
Software Version								
Hardware Version	:	KT-C5-15W1_V1.2						
Connecting I/O : Please refer to the User's Manual Port(S)								

Note: More test information about the EUT please refer the RF Test Report.

TB-RF-074-1. 0

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RF Exposure Considerations

1. Measuring Standard

KDB 680106 D01 RF Exposure Wireless Charging App v03.

2. Requirements

According to the item 5.2 of KDB 680106 D01v03:

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 1 MHz.
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
- (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 at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Limits For Maximum Permissible Exposure (MPE)

requency range Electric field strength (MHz) (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	1	f/300	6
1500-100,000	/	/	5	6
	(B) Limits for Genera	l Population/Uncontrolle	d 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	1	/	f/1500	30
1500-100,000	1	/	1.0	30

F=frequency in MHz

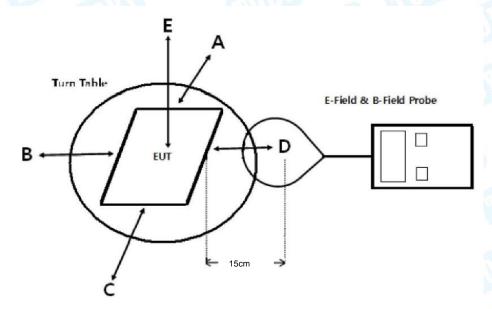
^{*=}Plane-wave equivalent power density

RF 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).

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3. Test Setup



Note: The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface.

4.Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface.
- 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 D01 v03.

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

5. Test Equipment List

Equipment	Equipment Manufacturer		Serial No.	Last Cal.	Cal. Due Date
Magnetic field meter	NARDA	ELT-400	EE030	Aug. 27, 2021	Aug. 26, 2022

6. Deviation From Test Standard

No deviation

7. Description of Support Units

Equipment Information									
Name Model FCC ID/SDOC Manufacturer Used "√"									
HUAWEI Mate 30	TAS-AN00		HUAWEI	√					



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8. Mode of operation during the test / Test peripherals used

rest	Modes:	C1117-17-20
TM1	AC Power Supply + EUT(Output: 5W) + Mobile Phone (Battery Status: <1%)	Pre-tested
TM2	AC Power Supply + EUT(Output: 5W)+ Mobile Phone (Battery Status: <50%)	Pre-tested
ТМ3	AC Power Supply + EUT(Output: 5W) + Mobile Phone (Battery Status: <99%)	Pre-tested
TM4	AC Power Supply + EUT(Output: 7.5W) Mobile Phone (Battery Status: <1%)	Pre-tested
TM5	AC Power Supply + EUT(Output: 7.5W)Mobile Phone (Battery Status: <50%)	Pre-tested
TM6	AC Power Supply + EUT(Output: 7.5W)Mobile Phone (Battery Status: <99%)	Pre-tested
TM7	AC Power Supply + EUT(Output: 10W) Mobile Phone (Battery Status: <1%)	Pre-tested
TM8	AC Power Supply + EUT(Output: 10W)Mobile Phone (Battery Status: <50%)	Pre-tested
TM9	AC Power Supply + EUT(Output: 10W)Mobile Phone (Battery Status: <99%)	Pre-tested
TM10	AC Power Supply + EUT(Output: 15W) Mobile Phone (Battery Status: <1%)	Record
TM11	AC Power Supply + EUT(Output: 15W)Mobile Phone (Battery Status: <50%)	Record
TM12	AC Power Supply + EUT(Output: 15W)Mobile Phone (Battery Status: <99%)	Record

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9. Test Result

E-Filed Strength at 15 cm from the edges surrounding the EUT and 15 cm above the top surface

_	00	111115							
	Charging Fraguency		Measured E-Field Strength Values (V/m)					E-Field	E-Field
	Charging	Frequency		Test Position					Strength
	Level	Battery Range			A B C D E	,	_	50% Limits	Limits
	Levei	(MHz)	А	E		(V/m)	(V/m)		
	1%	0.115	64.844	64.467	63.713	43.732	47.125	307.0	614.0
	50%	0.115	70.876	53.534	63.713	55.419	50.895	307.0	614.0
	99%	0.115	61.828	59.566	41.093	44.109	53.534	307.0	614.0

Note: V/m= A/m *377

H-Filed Strength at 15 cm from the edges surrounding the EUT and 15 cm above the top surface

Charging		Fraguenov	Measured H-Field Strength Values (A/m)					H-Field	H-Field
Charging	unit	Frequency		Test Position			Strength	Strength	
Battery	unit	Range	Δ.	1		1	Е	50% Limits	Limits
Level		(MHz)	A	В	С	D		(A/m)	(A/m)
1%	uT	0.115	0.215	0.214	0.212	0.145	0.156		10
1%	A/m	0.115	0.172	0.171	0.169	0.116	0.125	0.815	1.63
50%	uT	0.115	0.235	0.178	0.135	0.184	0.169	11	
50%	A/m	0.115	0.188	0.142	0.169	0.147	0.135	0.815	1.63
99%	uT 🧖	0.115	0.205	0.198	0.137	0.146	0.178		-
99%	A/m	0.115	0.164	0.158	0.109	0.117	0.142	0.815	1.63

H-Field Strength at 20cm from the top surface of the EUT

Charging Battery Level	Unit	Frequency Range (MHz)	Measured H-Field Strength Values (A/m) Test Position E	FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
1%	uT	0.115	0.175	- mil	(60)
1%	A/m	0.115	0.140	0.815	1.63
50%	uT	0.115	0.123		
50%	A/m	0.115	0.098	0.815	1.63
99%	uT	0.115	0.165		
99%	A/m	0.115	0.132	0.815	1.63

Note: A/m=uT/1.25



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10. Test Set-up Photo



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