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RF Exposure Evaluation FCC ID: 2AFIH-BND106

1. Client Information

Applicant	6	Brand New Days Limited
Address	:	Unit B, 6/F Tong Yuen Factory Building, 505 Castle Peak Road, Lai Chi Kok, Kowloon, Hong Kong
Manufacturer	:	Shenzhen Casun Technologies Co., Ltd.
Address		4/F, B Building, No.8 Eastern Zone, Shangxue Technology Park, Bantian, Shenzhen, China

2. General Description of EUT

EUT Name		Wireless Charger			
Models No.	:	BND106			
Model Difference	1	N/A			
		Operation Frequency:	110KHz-205KHz		
Model Difference Product Description Power Supply Charging Distance Software Version	18	Modulation Type:	MSK		
Description		Antenna:	Coil Antenna		
Power Supply	:	Input: 5V/2A Output: 5V/1A			
Charging Distance	Ŀ	≤8mm			
Software Version		N/A			
Hardware Version	:	N/A			
Connecting I/O Port(S)		Please refer to the Use	r's Manual		

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

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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)

Frequency 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/f²)	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	1	f/1500	30	
1500-100,000	/	/	1.0	30	

F=frequency in MHz

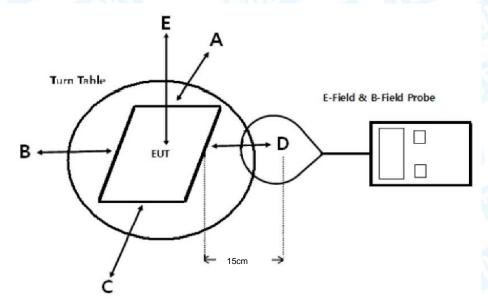
^{*=}Plane-wave equivalent power density

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.

Remark

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	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Magnetic field meter	NARDA	ELT-400	EE030	Sep. 27, 2018	Sep. 26, 2019



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6. Test Result

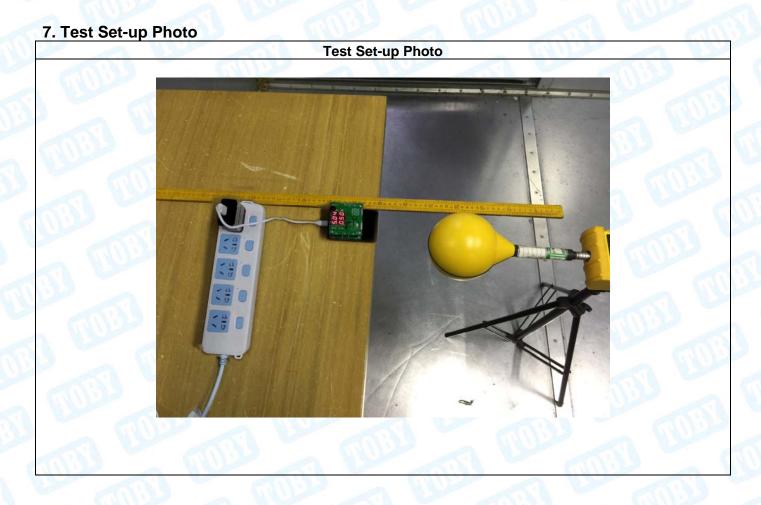
Test Mode:	Output 5V/1	Α					
			E-Filed Stre	ength			
Frequency Range (KHz)	Test Position	Test Distance (cm)	Calculated Value (A/m)	Calculated Value (V/m)	50% Limits Test (V/m)	Limits Test (V/m)	Result
110-205	Α	15	0.118	44.499			PASS
	В	15	0.114	42.695		~ W	PASS
	С	15	0.109	40.891	307	614	PASS
	D	15	0.134	50.513	CALLET .		PASS
	E	20	0.142	53.219	1	600	PASS
			H-Filed Stre	ength			
Frequency Range (KHz)	Test Position	Test Distance (cm)	Measured Value (uT)	Calculated Value (A/m)	50% Limits Test (A/m)	Limits Test (A/m)	Result
110-205	Α	15	0.148	0.118			PASS
	В	15	0.142	0.114	21110	-	PASS
	С	15	0.136	0.109	0.815	1.63	PASS
	D	15	0.168	0.134	TIN TIN	13:00	PASS
	E	20	0.177	0.142		40	PASS

Note: The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface. $V/m = 10^{(((dBuV/m)-120)/20)} = 10^{(((dBuA/m+51.5)-120)/20)} = 10^{(((20)g(A/m*10^6)+51.5)-120)/20)}$

A/m=uT/1.25



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----END OF REPORT----