RF Exposure Evaluation Report

1. Product Information

FCC ID	2ANOA-T6
Product Name	Wireless Charger Stand
Model Number	Т6
Series Models	T7, T8, T9, T11, T12, T13, T15, T16, T17, T18, T19, T20, T21, T22, T23, T24, T25, T26, T27, T28, T29
Power Supply	DC 5V/2A from adapter
Maximum Rated Power of WPT	10W Max.
Modulation Type	ASK
Operation Frequency	From 110KHz~205KHz
Antenna Type	Coil Antenna
Hardware version	T6-LY6105A-10W-2Coil-V1.7
Software version	V1.0
Exposure category	General population/uncontrolled environment
Test Sample ID:	CTA220228001-1#
EUT Type	Production Unit
Device Type	Mobile Device

2. Evaluation Limit

2.1 Refer Evaluation Method

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

According KDB 680106 D01 RF Exposure Wireless Charging App v03

2.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time
Range(MHz)	Strength(V/m)	Strength(A/m)	Strength(A/m) (mW/cm²)	
0.3 - 3.0	0.3 – 3.0 614		(100) *	6
3.0 - 30	1842/f	4.89/f	(900/f)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	300 – 1500 /		f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time		
Range(MHz)	Strength(V/m)	Strength(A/m)	Strength(A/m) (mW/cm²)			
Limits for Occupational/Controlled Exposure						
0.3 – 3.0	614	1.63	(100) *	30		
3.0 - 30	824/f	2.19/f	(180/f)*	30		
30 – 300	27.5	0.073	0.2	30		
300 – 1500	/	/	f/1500	30		
1500 – 100,000	/	/	1.0	30		

F=frequency in MHz

*=Plane-wave equivalent power density

3. Test Facility and Accreditation

Shenzhen CTA Testing Technology Co., Ltd.

Address: Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District,

Shenzhen, China

FCC-Registration No.: 517856 Designation Number: CN1318.

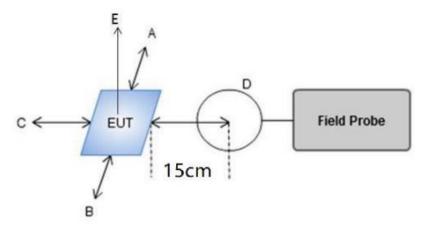
A2LA-Lab Cert. No.: 6534.01

4. Equipment Approval Considerations

Requirements of KDB 680106 D01	Yes / No	Description
Power transfer frequency is less than 1 MHz	Yes	The device operate in the frequency range 110KHz~205KHz
Output power from each primary coil is less than or equal to 15 watts.	Yes	The maximum output power for each primary coil is 10W.
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.	Yes	The transfer system includes only one primary coils.
Client device is placed directly in contact with the transmitter.	Yes	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes	Mobile exposure conditions only
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.	Yes	The EUT 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.

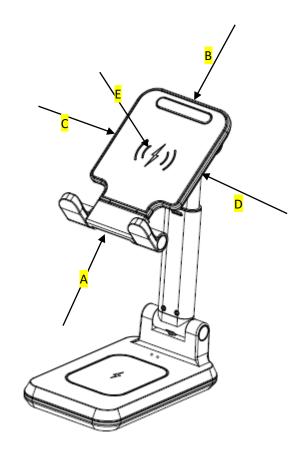
5. TEST CONDITIONS AND RESULTS

5.1 Test Setup



Note: A, B, C, D, E, F for six surfaces of the product.

The surfaces of the EUT is defined as figure below:



5.2 Measurement Procedure

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (10cm) which is between the edge of the charger and the geometric centre of probe.

- c) The turn table was rotated 360d degree to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- e) The EUT were measured according to the dictates of KDB 680106 D01 RF Exposure Wireless Charging App v03.

5.3 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

☐ Charging and communication mode

Test Conditions	Description			
TM1	AC/DC Adapter (9V/2A) + EUT + Wireless Charger tester (Load 10W)	Recorded		
TM2	AC/DC Adapter (9V/2A) + EUT + Wireless Charger tester (Load 7.5W)	Recorded		
TM3	AC/DC Adapter (9V/2A) + EUT + Wireless Charger tester (Load 5W)	Recorded		

5.4 Test Result of E and H field Strength

E-Field Strength at 15 cm from the edges surrounding the EUT and 15cm from the top surface of the EUT

			Mea	sured E-F	FCC	FCC			
Power Load	Unit	Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	E-Field Strength 50% Limits (V/m)	E-Field Strength Limits (V/m)
10W	v/m	0.1225	45.99	40.72	52.03	54.67	96.14	307.0	614.0
7.5W	v/m	0.1225	35.44	34.31	42.98	45.99	86.33	307.0	614.0
5W	v/m	0.1225	24.88	24.51	35.82	40.34	75.78	307.0	614.0

Note: V/m= A/m *377

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

			Mea	sured H-Fi		FCC			
Power Load	Unit	Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	FCC H-Field Strength50% Limits (A/m)	H-Field Strength Limits (A/m)
10W	uT	0.1225	0.153	0.135	0.173	0.181	0.319		
10W	A/m	0.1225	0.122	0.108	0.138	0.145	0.255	0.815	1.63
7.5W	uT	0.1225	0.118	0.114	0.143	0.153	0.286		
7.5W	A/m	0.1225	0.094	0.091	0.114	0.122	0.229	0.815	1.63
5W	uT	0.1225	0.083	0.081	0.119	0.134	0.251		
5W	A/m	0.1225	0.066	0.065	0.095	0.107	0.201	0.815	1.63

Note:A/m=uT/1.25

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

Dower		Eroguanay Panga	Measured H-Field	FCC H-Field	FCC H-Field
Power Load	Unit	Frequency Range (MHz)	Strength Values (A/m)	Strength 50%	Strength
Load		(IVITZ)	Test Position E	Limits (A/m)	Limits (A/m)
10W	uT	0.1225	0.289	-	
10W	A/m	0.1225	0.231	0.815	1.63
7.5W	uT	0.1225	0.258	-	1
7.5W	A/m	0.1225	0.206	0.815	1.63
5W	uT	0.1225	0.233	-	
5W	A/m	0.1225	0.186	0.815	1.63

Note:A/m=uT/1.25

6. Conclusion

A minimum safety distance of at 15 cm surrounding the device and 20 cm above the top surface of the device is required when the device is charging a smart phone. The detected emissions with a distance of 15 cm surrounding the device and 20 cm above the top surface of the device are below the limitations according to FCC KDB 680106 D01 Section 3. RF Exposure Requirement Clause 3.

7. Test Setup Photos of the EUT



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