

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE200606201

FCC REPORT

Applicant: Ubio Labs, Inc.

Address of Applicant: 2821 Northup Way, Suite 250 Bellevue, WA 98004 USA

Equipment Under Test (EUT)

Product Name: Wireless Charging Stand

Model No.: AWC1093

Trade mark: ubiolabs

FCC ID: 2ATGY-AWC1093

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.209

Date of sample receipt: 16 Jun., 2020

Date of Test: 17 Jun., to 03 Jul., 2020

Date of report issue: 06 Jul., 2020

Test Result: PASS*

Authorized Signature:



Bruce Zhang

Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery orfalsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description
00	06 Jul., 2020	Original

Tested By: Date: 06 Jul., 2020

Reviewed By:

Project Engineer

Date: 06 Jul., 2020



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4 Test Summary

Test Item	Section (FCC)	Result
Spurious emissions	15.209	Pass
Bandwidth	15.215(c)	Pass
Conducted Emission	15.207	Pass

Remark:

1. Pass: The EUT complies with the essential requirements in the standard.

 The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

ANSI C63.4-2014
ANSI C63.10-2013

ICES-001 Issue 4 June 2006





5 General Information

5.1 Client Information

Applicant:	Ubio Labs, Inc.
Address:	2821 Northup Way, Suite 250 Bellevue, WA 98004 USA
Factory:	SHENZHEN LANNENGSHITONG ELECTRONICS CO.,LTD
Address:	Floor3 No.40, Xinhe Road, Shangmugu Village, Pinghu Neighborhood, Longgang District, Shenzhen City, Guangdong Province, China.

5.2 General Description of E.U.T.

Product Name:	Wireless Charging Stand
Model No.:	AWC1093
Operation Frequency:	127.7kHz
Modulation type:	Loading modulation
Antenna Type:	Coil Antenna
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Power supply	Input: 18V, 3.5A
(Wireless Charger):	USB-A Output: 5V, 2.4A
	Wireless Output: 15W/ 10W / 7.5W/ 5W
AC adapter:	Model: CHG1147
	Input: AC 110-240V, 50-60 Hz
	Output: 18V, 3.5A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with modulation
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5.4 Description of Support Units

Manufacture	r De	scription	Model	S/N	FCC ID/DoC
Apple	Sm	art Phone	iPhone 11 Pro	N/A	BCG-E3305A

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB
Radiated Emission (18GHz ~ 26.5GHz)	±3.20 dB

Report No: CCISE200606201

5.6 Additions to, deviations, or exclusions from the method

Nο

5.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.9 Test Instrumentslist

Radiated Emission:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020		
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021		
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021		
Loop Antenna	SCHWARZBECK	FMZB 1519 B	00044	03-07-2020	03-06-2021		
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021		
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021		
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021		
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021		
Simulated Station	Anritsu	MT8820C	6201026545	03-07-2020	03-06-2021		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021		
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021		
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021		

Conducted Emission:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021		
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021		
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021		
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2020		
Cable	HP	10503A	N/A	03-05-2020	03-04-2021		
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A		



6 Test results and Measurement Data

6.1 Antenna requirement

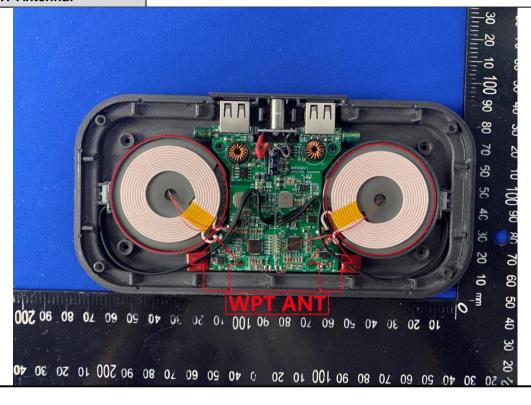
Standard requirement:

FCC Part15 C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

E.U.T Antenna:

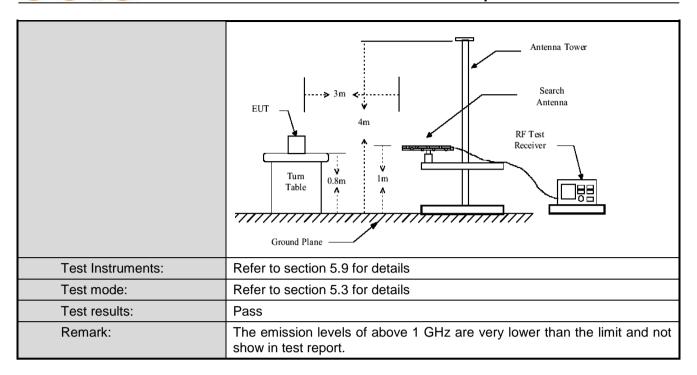




6.2 Radiated Emission

6.2 Radiated Emission							
Test Requirement:	FCC Part15 C Section 15.209						
Test Frequency Range:	9kHz to 1000MHz						
Test site:	Measurement Distance: 3m(Semi-Anechoic Chamber)						
Receiver setup:	Frequency	Detector	RBW	VB۱	N	Remark	
	9kHz-150kHz	9kHz-150kHz Quasi-peak		600Hz		Quasi-peak Value	
	150kHz- 30MHz	() asi-naak		30kHz		Quasi-peak Value	
	30MHz-1GHz	Quasi-peak		300kHz		Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MF	l z	Peak Value	
Limit:	Frequency (M		mit (uV/m @3			Distance (m)	
	0.009-0.49		2400/F(kHz)			300	
	0.490-1.70	5	24000/F(kHz)		30	
	1.705-30		30			30	
	30-88		100			3	
	88-216		150			3	
	216-960		200			3	
Test Procedure:	Above 1GF a. The EUT was		500		١ ٠	3 eters above the	
Test setup:	groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatabletable was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.					n. ecceiving antenna, na tower. ers above the ground oth horizontal and measurement. its worst case and meters and the s to find the maximum on and lower than the lik values of the EUT have 10dB margin	
	9kHz-30MHz Tum Table Ground Plane 30MHz-1GHz	3m 4m			Sear Anten		









Measurement Data:

a) Fundamental field strength

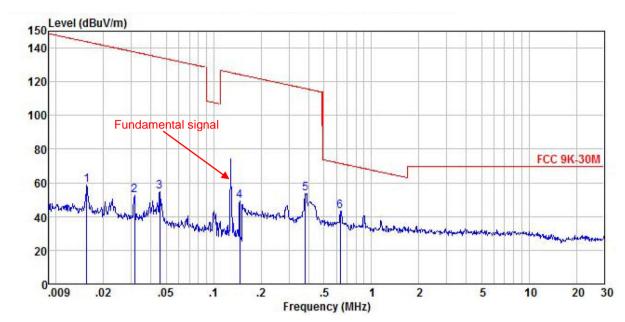
Peak value						
Test Polarization	Frequency (kHz)	H-field@3m (dBµV)	Limit@3m (dBµV)	Result		
Horizontal	127.70	51.55	125.48	Pass		
Vertical	127.70	39.47	125.48	Pass		
		Average value				
Test Polarization Frequency H-field@3m Limit@3m (dBμV) Result						
Horizontal	127.70	45.15	105.48	Pass		
Vertical	127.70	33.81	105.48	Pass		



b) Radiated spurious:

Below 1GHz:

Product Name:	Wireless Charging Stand	Product Model:	AWC1093		
Test By:	Yaro	Test mode:	Charing mode		
Test Frequency:	9kHz~30MHz	Polarization:	Vertical		
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%		
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%		



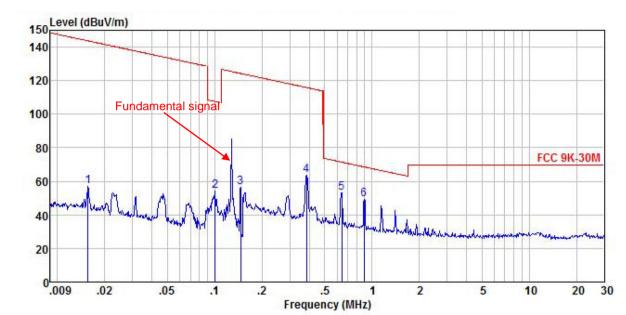
	Freq		Antenna Factor					Limit Line		Remark
	MHz	—dBu∜	<u>dB</u> /π	<u>dB</u>	<u>d</u> B	<u>ab</u>	dBuV/m	dBuV/m	<u>q</u> B	
1	0.016	38.22	20.38	0.01	0.00	0.00	58.61	143.71	-85.10	
2 3	0.031	32.45	20.24	0.02	0.00	0.00	52.71	137.65	-84.94	
3	0.046	34.50	20.53	0.02	0.00	0.00	55.05	134.41	-79.36	
4	0.147	29.02	20.15	0.03	0.00	0.00	49.20	124.30	-75.10	
5	0.382	32.72	20.67	0.06	0.00	0.00	53.45	115.97	-62.52	
6	0.636	22.53	20.70	0.09	0.00	0.00	43.32	71.54	-28.22	
800	0.000	22.03	20.10	0.05	0.00	0.00	40.02	11.01	20,22	

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	Wireless Charging Stand	Product Model:	AWC1093
Test By:	Yaro	Test mode:	Charing mode
Test Frequency:	9kHz~30MHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 57%
			•



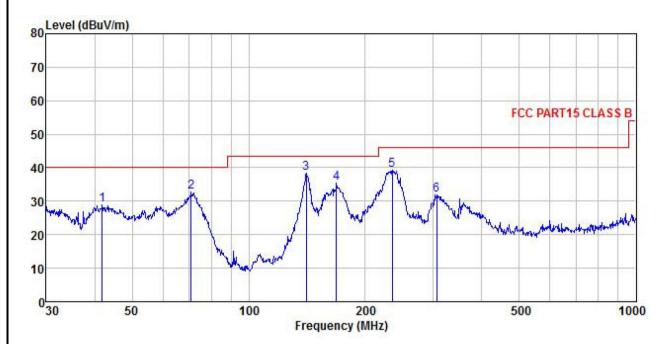
	Freq		Antenna Factor			Preamp Factor		Limit Line	Over Limit	Remark
-	MHz	dBu∜	<u>dB</u> /π		<u>ab</u>	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
1	0.016	36.39	20.38	0.01	0.00	0.00	56.78	143.71	-86.93	
2	0.101	34.01	20.48	0.02	0.00	0.00	54.51	107.53	-53.02	
2 3 4 5 6	0.147	36.30	20.15	0.03	0.00	0.00	56.48	124.30	-67.82	
4	0.385	42.73	20.67	0.06	0.00	0.00	63.46	115.90	-52.44	
5	0.642	32.60	20.69	0.09	0.00	0.00	53.38	71.46	-18.08	
6	0.895	28.37	20.55	0.11	0.00	0.00	49.03	68.58	-19.55	

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	Wireless Charging Stand	Product Model:	AWC1093
Test By:	Yaro	Test mode:	Charing mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%



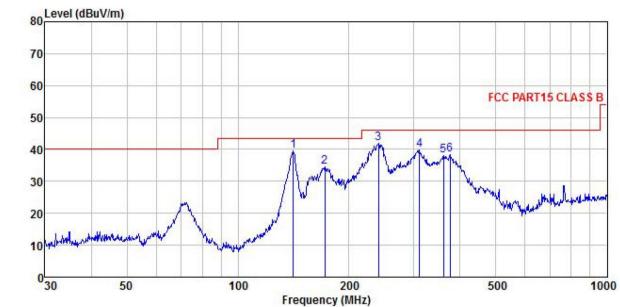
	Freq		Antenna Factor			Preamp Factor		Limit Line	Over Limit	Remark
_	MHz	₫₿uѶ	<u>dB</u> /m	₫B	<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	41.860	45.59	12.84	0.36	0.00	29.88	28.91	40.00	-11.09	QP
2	71.080	51.76	10.39	0.44	0.00	29.71	32.88	40.00	-7.12	QP
3	140.835	53.13	13.82	0.60	0.00	29.27	38.28	43.50	-5.22	QP
4	168.414	47.58	16.20	0.65	0.00	29.06	35.37	43.50	-8.13	QP
5	234.991	48.59	18.44	0.76	0.00	28.62	39.17	46.00	-6.83	QP
6	305.680	40.67	18.71	0.87	0.00	28.46	31.79	46.00	-14.21	QP

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	Wireless Charging Stand	Product Model:	AWC1093
Test By:	Yaro	Test mode:	Charing mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%
Level (dBuV/m)			



	Freq		ntenna Factor			Preamp Factor		Limit Line	Over Limit	Remark
_	MHz	dBu∜	dB/π	<u>ab</u>	<u>d</u> B	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>ab</u>	
1	141.330	54.53	13.83	0.60	0.00	29.27	39.69	43.50	-3.81	QP
2	171.995	46.44	16.61	0.66	0.00	29.03	34.68	43.50	-8.82	QP
3	239.987	51.26	18.46	0.76	0.00	28.59	41.89	46.00	-4.11	QP
4	309.998	48.66	18.72	0.87	0.00	28.47	39.78	46.00	-6.22	QP
1 2 3 4 5	360.448	46.94	18.86	0.94	0.00	28.61	38.13	46.00	-7.87	QP
6	375.939	47.21	18.96	0.96	0.00	28.68	38.45	46.00	-7.55	QP

Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



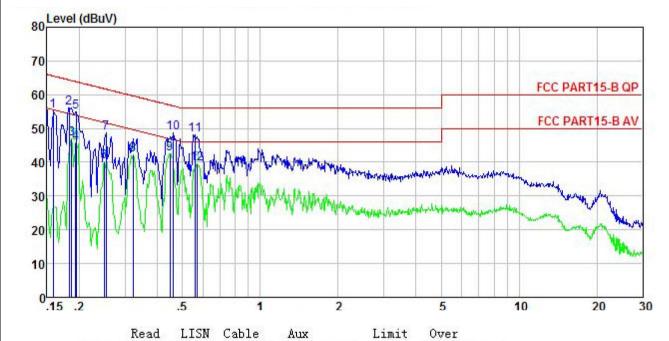
6.3 Conducted Emission

Test Requirement: FCC Part 15 B Section 15.207 Test Frequency Range: Class J Severity: Class B Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56° 56 to 46° 0.5-30 * Decreases with the logarithm of the frequency. Test setup: Reference Plane LISN Aux EUT Equipment Under Test LISN Line impedance Stabilization network (L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through line impedance stabilization network (L.I.S.N.). The provide a LISN that provides a 500hm/50uH coupling impedance with 500h termination. (Please refers to the block diagram of the test setup are photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan according to ANSI C63.4: 2014 on conducted measurement.	-			-				
Class / Severity: Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-30 60 50 * Decreases with the logarithm of the frequency. Reference Plane LISN Aux EU.T Equipment Under Test LISN Lime impedence Stabilization Network Test table registed in impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance or the measuring equipment. 2. The peripheral devices are also connected to the test setup ar photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan	Test Requirement:	FCC Part 15 B Section 15.207	,					
Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-30 60 50 * Decreases with the logarithm of the frequency. Reference Plane LISN Aux Equipment LISN Filter Ac power ELIST Equipment Under Test LISN Line Impedence Stabilization Network Test table height-0 8' Test table / Insurance Acceptable he	Test Frequency Range:	150kHz to 30MHz						
Limit: Frequency range (MHz)	Class / Severity:	Class B						
Test setup: Comparison	Receiver setup:	RBW=9kHz, VBW=30kHz						
Test setup: Cuasi-peak	Limit:	Fraguerov range (MHz)	Limit	(dBµV)				
Test setup: Reference Plane		Quasi-peak Average						
* Decreases with the logarithm of the frequency. **Test setup: **Reference Plane **LISN								
* Decreases with the logarithm of the frequency. Reference Plane LISN AUX Equipment Receiver Remark E.U.T EMI Receiver Test table/Insulation plane Remark E.U.T Employednice Stabilization Network Test table height=0.8m 1. The E.U.T and simulators are connected to the main power through line impedance stabilization network(L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500h termination. (Please refers to the block diagram of the test setup ar photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan								
Test setup: Reference Plane LISN 40cm 80cm Filter Ac power Remark EUT Equipment Under Test LISN Line impedence Stabilization Network Test table height-0 8m 1. The E.U.T and simulators are connected to the main power through line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50oh termination. (Please refers to the block diagram of the test setup ar photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan				50				
Test procedure 1. The E.U.T and simulators are connected to the main power through line impedance stabilization network(L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500h termination. (Please refers to the block diagram of the test setup ar photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan		* Decreases with the logarithm	n of the frequency.					
line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power throu a LISN that provides a 50ohm/50uH coupling impedance with 50oh termination. (Please refers to the block diagram of the test setup ar photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan		AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC po					
according to Airor Coo. 4. 2014 on conducted medsurement.	Test procedure	line impedance stabilization 50ohm/50uH coupling impersonments. The peripheral devices are a LISN that provides a 50oh termination. (Please refers the photographs). 3. Both sides of A.C. line are a interference. In order to find positions of equipment and	network(L.I.S.N.). To dance for the measuralso connected to the nm/50uH coupling im to the block diagram checked for maximum to the maximum emissional of the interface ca	he provide a ring equipment. e main power through pedance with 50ohm of the test setup and m conducted sion, the relative ables must be changed				
Test environment: Temp.: 23 °C Humid.: 56% Press.: 101kPa	Test environment:	Temp.: 23 °C Humio	d.: 56% Pr	ess.: 101kPa				
Test Instruments: Refer to section 5.9 for details	Test Instruments:	Refer to section 5.9 for details	1	i				
Test mode: Refer to section 5.3 for details	Test mode:	Refer to section 5.3 for details						
Test results: Pass	Test results:	Pass						



Measurement data:

Product name:	Wireless Charging Stand	Product Model:	AWC1093
Test by:	Yaro	Test mode:	Charing mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



Line

Limit Remark

	MHz	dBu₹	<u>ab</u>	<u>ab</u>	dB	dBu∀	dBu∀	<u>dB</u>	
1	0.158	44.93	-0.57	10.77	-0.07	55.06	65.56	-10.50	QP
2	0.182	46.15	-0.58	10.77	-0.13	56.21	64.37	-8.16	QP
2	0.186	36.95	-0.59	10.76	-0.13	46.99	54.20	-7.21	Average
4	0.193	35.60	-0.59	10.76	-0.15	45.62	53.89	-8.27	Average
4 5 6 7	0.194	45.03	-0.59	10.76	-0.15	55.05	63.84	-8.79	QP
6	0.249	30.23	-0.57	10.75	-0.22	40.19	51.78	-11.59	Average
7	0.253	38.82	-0.57	10.75	-0.22	48.78	61.64	-12.86	QP
8 9	0.322	31.99	-0.53	10.74	-0.09	42.11	49.66	-7.55	Average
9	0.447	32.29	-0.46	10.74	0.05	42.62	46.93	-4.31	Average
10	0.461	38.45	-0.45	10.74	-0.06	48.68	56.67	-7.99	QP
11	0.558	38.28	-0.46	10.76	-0.37	48.21	56.00	-7.79	QP
12	0.570	29.58	-0.47	10.76	-0.37	39.50	46.00	-6.50	Average

Loss Factor Level

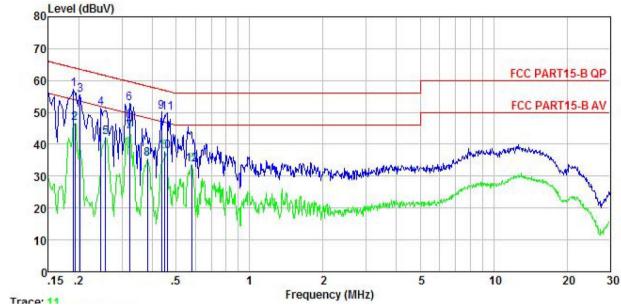
Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

Freq Level Factor



Product name:	Wireless Charging Stand	Product Model:	AWC1093
Test by:	Yaro	Test mode:	Charing mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%
Level (dRuV)			



	Freq	Read Level	LISN Factor	Cable Loss	Aux Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>		<u>ab</u>	—dBu∜	—dBu∜	<u>ab</u>	
1	0.190	47.31	-0.67	10.76	0.00	57.40	64.02	-6.62	QP
2	0.192	36.49	-0.67	10.76	0.00	46.58	53.93	-7.35	Average
3	0.202	45.31	-0.67	10.76	0.00	55.40	63.54	-8.14	QP
4	0.246	41.32	-0.67	10.75	0.01	51.41	61.91	-10.50	QP
5	0.258	32.07	-0.67	10.75	0.01	42.16	51.51	-9.35	Average
6	0.322	42.87	-0.66	10.74	-0.01	52.94	59.66		
7	0.322	33.86	-0.66	10.74	-0.01	43.93	49.66	-5.73	Average
2 3 4 5 6 7 8 9	0.381	25.30	-0.64	10.72	-0.05	35.33	48.25		Average
9	0.435	40.14	-0.64	10.73	-0.03	50.20	57.15	-6.95	QP
10	0.449	27.63	-0.64	10.74	-0.01	37.72	46.89	-9.17	Average
11	0.459	39.67	-0.64	10.74	0.00	49.77	56.71	-6.94	
12	0.582	23.47	-0.65	10.76	0.03	33.61	46.00	-12.39	Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.4 Bandwidth

Test Requirement:	FCC Part15 C Section 15.215 (c)				
Receiver setup:	RBW=1 kHz, VBW=3 kHz, detector: Peak				
Limit:	The fundamental emission be kept within at least the central 80% of the permitted band				
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set the EUT to proper test channel. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. Read 20dB bandwidth. 				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data

20dB bandwidth (kHz)	99% bandwidth (kHz)	Limits				
2.98	2.46	N/A				
Remark: For report purpose only.						



Test plot as follows:

