

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE200604401

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.: AWC1092

Trade mark: ubiolabs

FCC ID: 2ATGY-AWC1092

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

Date of sample receipt: 12 Jun., 2020

Date of Test: 13 Jun., to 01 Jul., 2020

Date of report issue: 02 Jul., 2020

Test Result: PASS*

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

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.

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2 Version

Version No.	Date	Description
00	02 Jul., 2020	Original

Test Engineer
Winner Mang Tested By: Date: 02 Jul., 2020

Reviewed By: Date: 02 Jul., 2020 **Project Engineer**



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4 Test Summary

Test Item	Section in CFR 47	Result
Spurious emissions	15.209	Pass
20dB Bandwidth	15.215(c)	Pass
Conducted Emission	15.207	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.4-2014
ANSI C63.10-2013





5 General Information

5.1 Client Information

Applicant:	Ubio Labs, Inc.			
Address:	2821 Northup Way, Suite 250 Bellevue, WA 98004 USA			
Manufacturer:	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.:	AWC1092
Operation Frequency:	127.7kHz
Modulation type:	Loading modulation
Antenna Type:	Coil Antenna
Power supply	Input: 15V, 2.5A
(Wireless Charger):	USB-A Output: 5V, 2.4A
	Wireless Output: 15W/ 10W / 7.5W/ 5W
AC adapter:	Model: CHG1151SG
	Input: AC 110-240V, 50-60 Hz, 0.8A
	Output: 15V, 2.5A
Test Sample Condition:	The test samples were provided in good working order with no visible
	defects.

5.3 Test mode

Transmitting mode:	ansmitting mode: Keep the EUT in transmitting mode with modulation				
Remark:					
, , ,	V,2.4A/6V and input: 15V, Wireless Output:: 15W/ 10W / 7.5W/ 5W of the Power ut: 15W was worse case mode. So the report only reflects the worse mode.				

5.4 Description of Support Units

Manufacturer	Description	Model	S/N	FCC ID/DoC
Skytek	Wireless charging match load	N/A	N/A	N/A

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: CCISE200604401

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

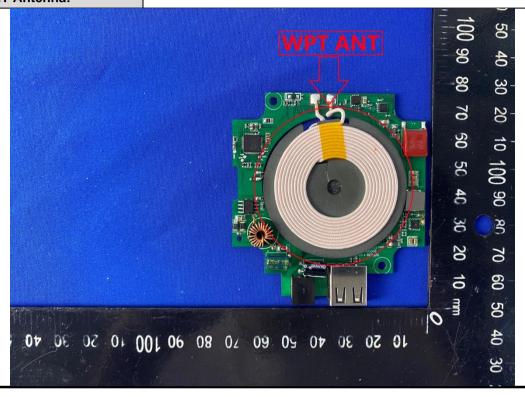
Standard requirement:

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:

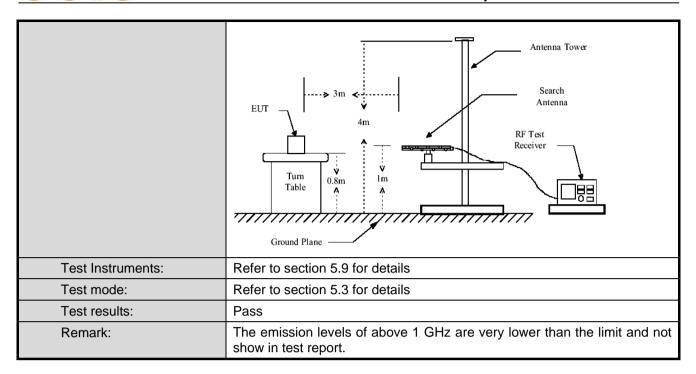




6.2 Radiated Emission

6.2 Radiated Emission						
Test Requirement:	FCC Part15 C Section 15.209					
TestFrequencyRange:	9kHz to 1000MHz					
Test site:	Measurement Distance: 3m(Semi-Anechoic Chamber)					
Receiver setup:	Frequency	· · ·		N	Remark	
	9kHz-150kHz			600H	Ηz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz		Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120kHz	300k		Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MF	l z	Peak Value
Limit:	Frequency (M		nit (uV/m @3	m)		Distance (m)
	0.009-0.49		2400/F(kHz)			300
	0.490-1.70	5 2	4000/F(kHz)		30
	1.705-30		30			30
	30-88		100			3
	88-216		150			3
	216-960		200			3
Test Procedure:	Above 1GF	Iz placed on the to	500	. 4=61- ^	١ ٥	3
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.					
του σοιαμ.	9kHz-30MHz Turn Table Ground Plane 30MHz-1GHz	3m 4m 4m V V V V V V V V V V V V V V V V V V V			Sear Anten	









Measurement Data:

a) Fundamental field strength

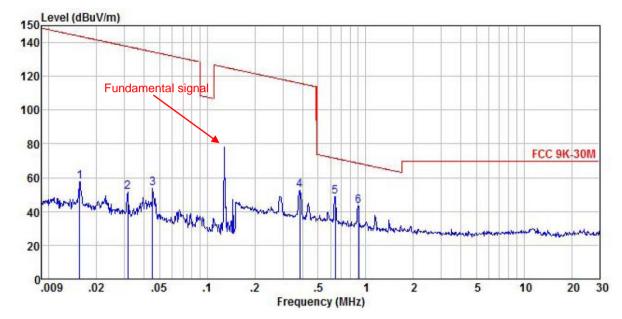
Peak value							
Test Polarization	Frequency (kHz)	H-field@3m (dBµV)	Limit@3m (dBµV)	Result			
Horizontal	127.70	83.69	125.48	Pass			
Vertical	127.70	77.32	125.48	Pass			
		Average value					
Test Polarization Frequency (kHz) H-field@3m Limit@3m (dBμV) Result							
Horizontal	127.70	67.98	105.48	Pass			
Vertical	127.70	53.70	105.48	Pass			



b) Radiated spurious:

Below 1GHz:

Product Name:	Wireless Charging Stand	Product Model:	AWC1092
Test By:	Yaro	Test mode:	TX mode
Test Frequency:	9kHz~30MHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 57%



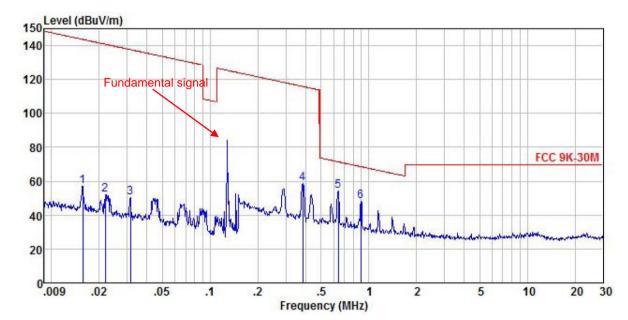
MHz -	dBuV								
		dB/m	dB	ab	dB	$\overline{dBuV/m}$	$\overline{dB} \overline{uV}/\overline{m}$	<u>dB</u>	
016	37.32	20.38	0.01	0.00	0.00	57.71	143.71	-86.00	Peak
031	31.14	20.24	0.02	0.00	0.00	51.40	137.65	-86.25	Peak
045	33.00	20.52	0.02	0.00	0.00	53.54	134.48	-80.94	Peak
385	31.93	20.67	0.06	0.00	0.00	52.66	115.90	-63.24	Peak
642	28.14	20.69	0.09	0.00	0.00	48.92	71.46	-22.54	Peak
902	22.50	20.55	0.11	0.00	0.00	43.16	68.51	-25.35	Peak
000)31)45)85 342	031 31.14 045 33.00 085 31.93 042 28.14	31.14 20.24 345 33.00 20.52 385 31.93 20.67 342 28.14 20.69	031 31.14 20.24 0.02 045 33.00 20.52 0.02 085 31.93 20.67 0.06 042 28.14 20.69 0.09	031 31.14 20.24 0.02 0.00 045 33.00 20.52 0.02 0.00 085 31.93 20.67 0.06 0.00 042 28.14 20.69 0.09 0.00	031 31.14 20.24 0.02 0.00 0.00 045 33.00 20.52 0.02 0.00 0.00 085 31.93 20.67 0.06 0.00 0.00 042 28.14 20.69 0.09 0.00 0.00	031 31.14 20.24 0.02 0.00 0.00 51.40 045 33.00 20.52 0.02 0.00 0.00 53.54 085 31.93 20.67 0.06 0.00 0.00 52.66 042 28.14 20.69 0.09 0.00 0.00 48.92	031 31.14 20.24 0.02 0.00 0.00 51.40 137.65 045 33.00 20.52 0.02 0.00 0.00 53.54 134.48 085 31.93 20.67 0.06 0.00 0.00 52.66 115.90 042 28.14 20.69 0.09 0.00 0.00 48.92 71.46	031 31.14 20.24 0.02 0.00 0.00 51.40 137.65 -86.25 045 33.00 20.52 0.02 0.00 0.00 53.54 134.48 -80.94 085 31.93 20.67 0.06 0.00 0.00 52.66 115.90 -63.24 042 28.14 20.69 0.09 0.00 0.00 48.92 71.46 -22.54

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:	AWC1092
Test By:	Yaro	Test mode:	TX mode
Test Frequency:	9kHz~30MHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 57%



	Freq		Factor			Freamp Factor	Level	Limit	Limit	Remark
-	MHz	dBu∇	<u>dB</u> /m	dB	<u>dB</u>	<u>dB</u>	dBu√/m	dBuV/m	<u>dB</u>	
1	0.016	36.63	20.38	0.01	0.00	0.00	57.02	143.64	-86.62	Peak
2	0.022	31.87	20.29	0.01	0.00	0.00	52.17	140.82	-88.65	Peak
3	0.031	30.19	20.24	0.02	0.00	0.00	50.45	137.65	-87.20	Peak
4	0.385	38.05	20.67	0.06	0.00	0.00	58.78	115.90	-57.12	Peak
2 3 4 5 6	0.642	33.49	20.69	0.09	0.00	0.00	54.27	71.46	-17.19	Peak
6	0.895	27.49	20.55	0.11	0.00	0.00	48.15	68.58	-20.43	Peak

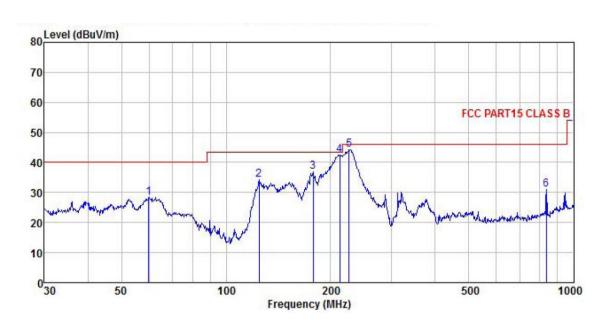
Remark

- 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.



Radiated spurious (By 30 MHz ~ 1 GHz):

Product Name:	Wireless Charging Stand	Product Model:	AWC1092
Test By:	Yaro	Test mode:	TX mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



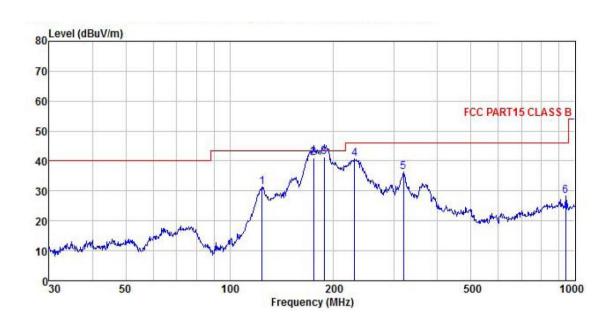
		Read	Antenna	Cable	Aux	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Factor	Level	Line	Limit	Remark
_	MHz	dBu∀	<u>d</u> B/π		<u>ab</u>	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	59.859	46.91	10.82	0.42	0.00	29.77	28.38	40.00	-11.62	QP
2	124.569	51.78	11.34	0.58	0.00	29.36	34.34	43.50	-9.16	QP
3	178.133	48.29	16.86	0.68	0.00	28.99	36.84	43.50	-6.66	QP
4	212.270	52.31	18.35	0.73	0.00	28.75	42.64	43.50	-0.86	QP
1 2 3 4 5	226.099	53.78	18.41	0.75	0.00	28.67	44.27	46.00	-1.73	QP
6	836.244	36.41	21.26	1.42	0.00	28.06	31.03	46.00	-14.97	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:	AWC1092
Test By:	Yaro	Test mode:	TX mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



	Freq		Antenna Factor					Limit Line	Over Limit	Remark
	MHz	dBu∇	<u>d</u> B/m	dB	<u>dB</u>	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	dB	
1	124.133	48.73	11.28	0.58	0.00	29.36	31.23	43.50	-12.27	QP
2	175.037	52.67	16.80	0.67	0.00	29.01	41.13	43.50	-2.37	QP
3	187.753	52.30	17.31	0.70	0.00	28.92	41.39	43.50	-2.11	QP
4	230.099	50.19	18.42	0.75	0.00	28.65	40.71	46.00	-5.29	QP
5	318.817	45.30	18.74	0.89	0.00	28.49	36.44	46.00	-9.56	QP
6	938.833	31.67	22.76	1.54	0.00	27.76	28.21	46.00	-17.79	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.



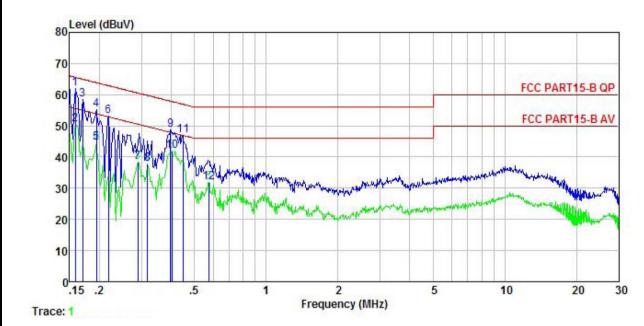
6.3 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.20	07	
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Eroguenov rongo (MUz)	Limit	(dBµV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
_	* Decreases with the logarith	m of the frequency.	
Test setup:	Reference Plan 40cm 80cm 40cm 80cm E.U.T Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver	
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.). The pedance for the measure also connected to the ohm/50uH coupling imports to the block diagram are checked for maximum and the maximum emissed all of the interface care	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 Hun	nid.: 56% Pr	ess.: 101kPa
Test Instruments:	Refer to section 5.9 for detail	ls	
Test mode:	Refer to section 5.3 for detail	ls	
Test results:	Pass		



Measurement data:

Product name:	Wireless Charging Stand	Product Model:	AWC1092
Test by:	Yaro	Test mode:	TX mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	₫BuV	₫B	₫B	dBu₹	dBu₹	<u>ab</u>	
1	0.158	51.84	-0.57	10.77	61.97	65.56	-3.59	QP
2	0.158	40.49	-0.57	10.77	50.62	55.56	-4.94	Average
3	0.170	48.23	-0.58	10.77	58.32	64.94	-6.62	QP
1 2 3 4 5 6	0.194	45.23	-0.59	10.76	55.25	63.84	-8.59	QP
5	0.194	34.56	-0.59	10.76	44.58	53.84	-9.26	Average
6	0.219	43.20	-0.58	10.76	53.20	62.88	-9.68	QP
7	0.289	28.34	-0.55	10.74	38.28	50.54	-12.26	Average
8	0.318	27.57	-0.53	10.74	37.67	49.75	-12.08	Average
9	0.398	38.01	-0.48	10.72	48.65	57.90	-9.25	QP
10	0.402	31.23	-0.48	10.72	41.89	47.81	-5.92	Average
11	0.447	36.59	-0.46	10.74	46.92	56.93	-10.01	QP
12	0.573	22.02	-0.47	10.76	31.94			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.



Product name:	Wirele	ess Charg	ing Stand		Prod	duct Mod	el: A	WC1092	
Test by:	Yaro				Test	mode:	Т	X mode	
Test frequency:	150 kł	Hz ~ 30 M	1Hz		Pha	se:	N	leutral	
Test voltage:	AC 12	0 V/60 Hz	Z		Env	ironment	: Т	emp: 22.5℃	Huni: 55
80 Level (dBuV) 70 60 24 50 30 40		Lynn 3300 mm	man de man	d-topy/dhopping	and the state of t	1 June 1	bud no grad and and		T15-B QP
10			and track and	~~	A STANLAND OF THE STANLAND OF	A.A. B.			Mana A
		.5	1	2 Frequence	cy (MHz)	5		10	20 30

Notes:

10

11

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

-0.63

-0.64

30.52

35.99

20.23

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

-0.64 10.77

10.73

10.74

40.57

46.07

30.40

47.55 -6.98 Average

46.00 -15.60 Average

56.93 -10.86 QP

3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

0.415

0.447

0.601



6.4 Bandwidth

Test Requirement:	FCC Part15 C Section 15.215 (c)	
Receiver setup:	RBW=1 kHz, VBW=3 kHz, detector: Peak	
Limit:	The fundamentalemission be kept within atleast the central 80% of the permittedband	
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)	Limits	
2.84	N/A	
Remark: For report purpose only.		

99% bandwidth (kHz)	Limits	
2.38	N/A	
Remark: For report purpose only.		



Test plot as follows:

