

Report No: CCISE200707001V01

# FCC REPORT

Applicant:	Ubio Labs, Inc.	
Address of Applicant:	2821 Northup Way, Suite 250 Bellevue, WA 98004 USA	
Equipment Under Test (E	EUT)	
Product Name:	Wireless Charging Stand	
Model No.:	AWC1094	
Trade mark:	ubiolabs	
FCC ID:	2ATGY-AWC1094	
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.209	
Date of sample receipt:	21 Jul., 2020	
Date of Test:	21 Jul., to 29 Jul., 2020	
Date of report issue:	10 Aug., 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 theCCISproduct 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.



## 2 Version

Version No.	Date	Description
00	30 Jul., 2020	Original
01	10 Aug., 2020	Update Page 4, 12, 13

Tested By:

Test Engineer

Date:

10 Aug., 2020

Reviewed By:

Winner Thang

**Project Engineer** 

Date: 10 Aug., 2020

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

## <u>CCIS</u>

## 3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 TEST SUMMARY	4
5 GENERAL INFORMATION	
5.1 Client Information	5
5.2 GENERAL DESCRIPTION OF E.U.T.	
5.3 TEST MODE AND TEST SAMPLES PLANS	
5.4 DESCRIPTION OF SUPPORT UNITS	5
5.5 MEASUREMENT UNCERTAINTY	6
5.6 Additions to, deviations, or exclusions from the method	
5.7 LABORATORY FACILITY	
5.8 LABORATORY LOCATION	
5.9 Test Instrumentslist	7
6 TEST RESULTS AND MEASUREMENT DATA	8
6.1 ANTENNA REQUIREMENT	8
6.2 RADIATED EMISSION	9
6.3 CONDUCTED EMISSION	16
6.4 BANDWIDTH	
7 TEST SETUP PHOTOS	21
8 EUT CONSTRUCTIONAL PHOTOS	23

## 4 Test Summary

Test Item		Section in CFR 47	Result	
Spurious emissions		15.209	Pass	
20dB Bandwidth		15.215(c)	Pass	
Conducted Emission		Conducted Emission 15.207		
Re	Remark:			
1.	1. Pass: The EUT complies with the essential requirements in the standard.			
2.	<ol> <li>The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).</li> </ol>			

Test Method: 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
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.:	AWC1094
Operation Frequency:	127.7kHz
Modulation type:	Load modulation
Antenna Type:	Coil Antenna
Power supply (Wireless Charger):	Model: AWC1094 Input: DC 15V, 2.5A Input (USB-A): DC 5V,2.4A Output Wireless: 5W-15W
AC Adapter:	Model: CHG1151 Input: AC 110-240V, 50-60 Hz Output: 15V / 2.5A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

#### 5.3 Test mode and test samples plans

Transmitting mode:	Keep the EUT in transmitting mode with modulation
--------------------	---

#### **5.4 Description of Support Units**

Manufacturer	Manufacturer Description		S/N	FCC ID/DoC	
Skytek	Wireless charging match load	N/A	N/A	N/A	
Apple	Mobile phone	iPhone 11 Pro	MWDE2CH/A	Doc	



#### 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

#### 5.6 Additions to, deviations, or exclusions from the method

#### No

#### 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: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a>

#### 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: <u>http://www.ccis-cb.com</u>

## 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
5111 540	SALING		300	07-22-2020	07-21-2021
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
LISIN	Ronde & Schwarz	ESH3-25	6436621/010	07-21-2020	07-20-2021
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

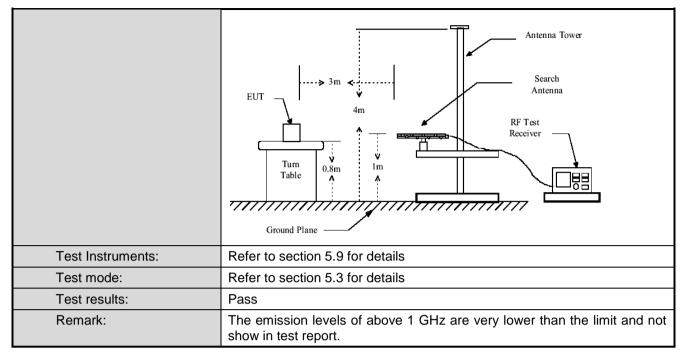
Standard requirement:	FCC Part15 C Section 15.203
responsible party shall be us antenna that uses a unique	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit in be replaced by the user, but the use of a standard antenna jack or pited.
E.U.T Antenna:	



#### 6.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209							
TestFrequencyRange:	9kHz to 1000MHz							
Test site:	Measurement Di	istance:	3m(Serr	ni-Anechoic	Cham	nber)		
Receiver setup:	Frequency	Dete	ctor	RBW	VB		Remark	
	9kHz-150kHz	Quasi	-peak	200Hz	600	Hz	Quasi-peak Value	
	150kHz- 30MHz Quasi-peak 9kHz 30kHz		Quasi-peak Value					
	30MHz-1GHz	Quasi		120kHz	300k		Quasi-peak Value	
	Above 1GHz	Pe		1MHz	3MI	Hz	Peak Value	
Limit:					Distance (m)			
	0.009-0.49			400/F(kHz)			300	
	0.490-1.70	5	24	1000/F(kHz)			30	
	1.705-30			30			30	
	30-88			100			3	
	88-216			150			3	
	216-960			200			3	
Test Procedure:	Above 1GH a. The EUT was			500			3	
	<ul> <li>a. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>e. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode.</li> <li>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.</li> </ul>					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 ik values of the EUT have 10dB margin		
Test setup:	9kHz-30MHz	3 m 4 m	 			Anteni Sear Ante		







#### Measurement Data:

#### a) Fundamental field strength

	Peak value							
Test Polarization	Frequency (kHz)	H-field@3m (dBµV)	Limit@3m (dBµV)	Result				
Horizontal	127.70	68.33	125.48	Pass				
Vertical	127.70	62.41	125.48	Pass				
		Average value						
Test Polarization	Frequency (kHz)	H-field@3m (dBµV)	Limit@3m (dBµV)	Result				
Horizontal	127.70	65.16	105.48	Pass				
Vertical	127.70	59.38	105.48	Pass				

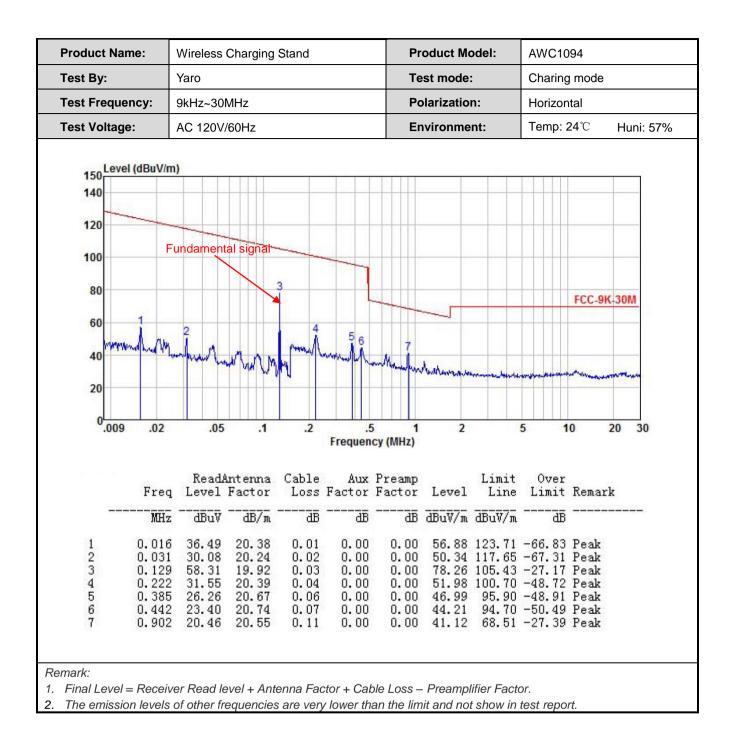


#### b) Radiated spurious:

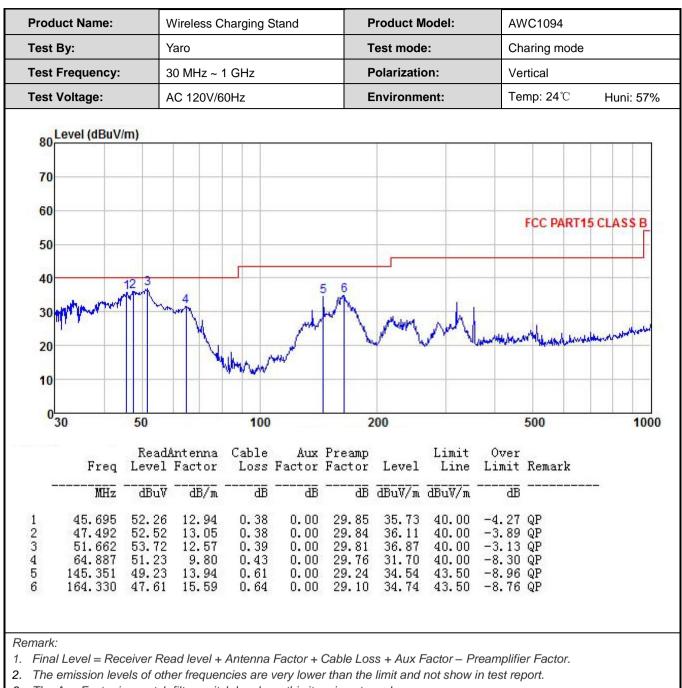
Below 1GHz:

Product Name:	Wireles	Wireless Charging Stand					t Model:	AW	/C1094			
Test By:	Yaro	Yaro				Test m	ode:	Ch	Charing mode			
Test Frequency:	t Frequency: 9kHz~30MHz			Polarization:		Ve	Vertical					
Test Voltage:	AC 120	AC 120V/60Hz				Environment:		Temp: 24℃ Hun		ıni: 57%		
150 Level (dBu	V/m)											
140												
120										_		
100	Fundament	al signal										
80		4										
00				L		-			FCC-9	K-30M		
60 1	2			_		~]						
moneyeller	March 11		5	6	7							
40	Anone And And An	manull	1 Marchell Pre	montoho	moppinghan	han .			-	-		
20			uři			J. WINNERSCORE	manyan	callena and	AT ALL BARREN	har white		
0.009 .0	02 .05	.1	.2	.5	1 1 1 1 1 1 1 1 1 1	2		5	10	20 3	0	
				Frequence	cy (MHz)							
		Antenna	Cable	Aux	Preamp		Limit	0v				
F	req Level	Factor	Loss	Factor	Factor	Level	Line	Lim	it Reman	ck		
]	WHz dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m		⊞		-	
1 0.1	016 38.62	20.38	0.01	0.00	0.00	59.01	123.71	-64.	70 Peak			
	)31 32.63 )45 27.94		0.02 0.02	0.00	0.00 0.00		117.65					
4 0.	129 59.28	19.92	0.02	0.00			105.43					
5 0.3	225 26.11	20.40	0.05	0.00	0.00	46.56	100.56	-54.1	00 Peak			
	388 20.66 542 16.93		0.06 0.09	0.00	0.00	41.39			44 Peak 75 Peak			
		10100										
emark:												
Final Level = Red	ceiver Read I	evel + Ante	nna Fac	tor + Cab	le Loss –	Preampli	ifier Facto	or.				



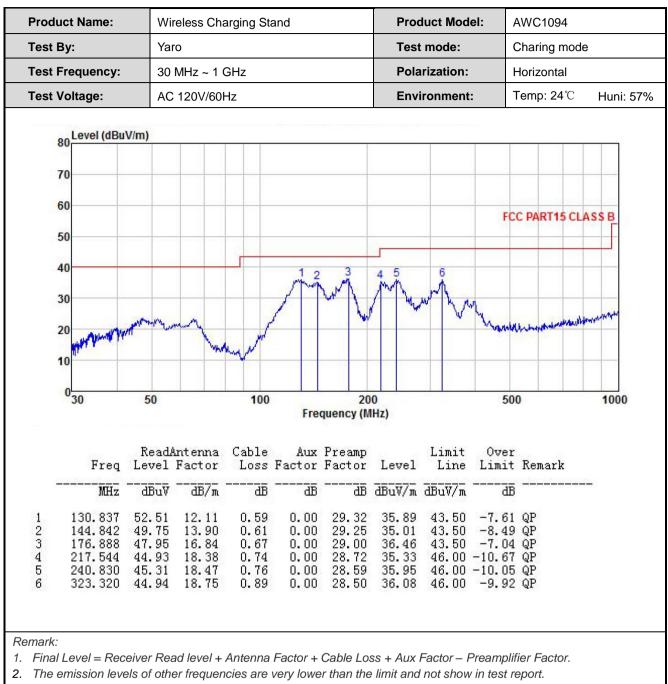






3. The Aux Factor is a notch filter switch box loss, this item is not used.





3. The Aux Factor is a notch filter switch box loss, this item is not used.



### 6.3 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.20	)7				
Test Frequency Range:	150kHz to 30MHz					
Class / 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*		
	0.5-5	<u> </u>		46		
	0.5-30	50				
	* Decreases with the logarith	m of the frequency	/.			
Test setup:	Reference Plar 40cm 80cr 40cm 80cr Equipment E.U.T Test table/Insulation plane Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver	AC power			
Test procedure	<ol> <li>The E.U.T and simulators line impedance stabilizatio 50ohm/50uH coupling imp</li> <li>The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs).</li> <li>Both sides of A.C. line are interference. In order to fin positions of equipment and according to ANSI C63.4:</li> </ol>	on network(L.I.S.N. bedance for the me e also connected to ohm/50uH coupling to the block diagr e checked for maxi and the maximum er d all of the interfac	). The prov asuring eq o the main g impedanc am of the t mum cond mission, the e cables m	ide a uipment. power through e with 500hm est setup and ucted e relative ust be changed		
Test environment:	Temp.: 23 °C Hum	nid.: 56%	Press.:	101kPa		
Test Instruments:	Refer to section 5.9 for detail	S	:	;		
Test mode:	Refer to section 5.3 for detail	S				
	Pass					



#### Measurement data:

Product name:	Wireless Charging Stand	AWC1094			
Test by:	Yaro	Test mode:	Charing mode		
Test frequency:	150 kHz ~ 30 MHz	kHz ~ 30 MHz Phase: Lir			
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%		
80 Level (dBuV) 70 60 50 40 30 20	10 Multimetry days		FCC PART15-B QP FCC PART15-B AV		
		and the second sec			
10 0.15 .2 Freq Le	.5 1 2 ead LISN Cable Aux vel Factor Loss Factor BuV dB dB dB	5 Limit Over Level Line Limit dBuV dBuV dB	Remark		

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



Product name:	Wireless Charg	ging Stand	b	Pr	roduct Mo	odel:	AWC1094	AWC1094		
Test by:	Yaro			Те	est mode:		Charing mod	de		
Test frequency:	150 kHz ~ 30 l	MHz		Pł	hase:		Neutral			
Test voltage:	AC 120 V/60 Hz			Er	nvironme	nt:	Temp: 22.5°	C Huni: 5		
Level (dBuV)										
80										
70										
60 1		_					FCC PAR	T15-B QP		
A 350							FCC PAR	T15-B AV		
50	10						1001744			
40 40 Min Min	A .						1000			
an MAN MAN	1 Marchan	Mandun		1101	LLLLANAL		HALL HALL	Dinna .		
30	V What Man	and the way	and a participation of the second	v Marketer	JUNIO			MARKA, A		
×948			and the second se							
20	A LANK AND	A STATE OF THE OWNER	AND THE WAY AND A	AM WAR IN T						
			AND THE YOUR AND	M. Walkerine a						
20 10			n na mangang pangang pa Na mangang pangang panga	AM when we a				11 <b></b> 11		
	.5	1	2	AMANANA A	5		10	20 30		
10 0.15 .2	.5	-	2 Frequency	y (MHz)	5		10	20 30		
10 0.15 .2	Read LISN	Cable	Frequency Aux		Limit	Over		20 30		
10 0.15 .2		Cable	Frequency Aux	y (MHz) Level	_		10 Remark	20 30		
10 0.15 .2 Freq Le	Read LISN	Cable	Frequency Aux		Limit			20 30		
10 0.15 .2 Freq Le MHz	Read LISN evel Factor HBuV dB	Cable Loss dB 10.77	Frequency Aux Factor dB	Level dBuV 57.38	Limit Line dBuV 65.34	Limit 	Remark 	20 30		
10 0.15 .2 Freq Le MHz	Read LISN evel Factor HBuV dB 7.28 -0.68 1.37 -0.68	Cable Loss dB 10.77 10.77	Frequency Aux Factor dB 0.01 0.01	Level dBuV 57.38 44.47	Limit Line dBuV 65.34 55.34	Limit 	Remark  QP Average	20 30		
10 0.15 .2 Freq Le 	Read LISN evel Factor HBuV dB 7.28 -0.68 1.37 -0.68 1.54 -0.68 1.24 -0.68	Cable Loss dB 10.77 10.77 10.77 10.77	Frequency Aux Factor dB 0.01 0.01 0.00 0.00 0.00	Level dBuV 57.38 44.47 54.63 44.33	Limit Line dBuV 65.34 55.34 64.42 54.42	Limit -7.96 -10.87 -9.79 -10.09	Remark  QP Average QP Average	20 30		
10 0.15 .2 Freq Le MHz c 1 0.162 47 2 0.162 34 3 0.182 44 4 0.182 34 5 0.194 42	Read LISN evel Factor HBuV dB 1.28 -0.68 1.37 -0.68 1.54 -0.68 1.24 -0.68 2.31 -0.67	Cable Loss dB 10.77 10.77 10.77 10.77 10.76	Frequency Aux Factor dB 0.01 0.01 0.00 0.00 0.00 0.00	Level dBuV 57.38 44.47 54.63 44.33 52.40	Limit Line dBuV 65.34 55.34 64.42 54.42 54.42 63.84	Limit -7.96 -10.87 -9.79 -10.09 -11.44	Remark  QP Average QP Average QP	20 30		
10 0.15 .2 Freq Le MHz c 1 0.162 47 2 0.162 34 3 0.182 44 4 0.182 34 5 0.194 42 6 0.206 40 7 0.206 30	Read LISN evel Factor HBuV dB 1.28 -0.68 1.37 -0.68 1.54 -0.68 1.24 -0.68 2.31 -0.67 0.64 -0.67 0.89 -0.67	Cable Loss dB 10.77 10.77 10.77 10.77 10.76 10.76 10.76	Frequency Aux Factor dB 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.0	Level dBuV 57.38 44.47 54.63 44.33 52.40 50.73 40.98	Limit Line dBuV 65.34 55.34 64.42 54.42 63.84 63.36 53.36	Limit -7.96 -10.87 -9.79 -10.09 -11.44 -12.63 -12.38	Remark  QP Average QP Average QP QP Average	20 30		
10 0.15 .2 Freq Le Tace: 5 Freq Le 0.162 47 2 0.162 34 3 0.182 44 4 0.182 34 5 0.194 42 6 0.206 40 7 0.206 30 8 0.219 36	Read LISN evel Factor HBuV dB 7.28 -0.68 1.37 -0.68 1.54 -0.68 1.24 -0.68 2.31 -0.67 0.64 -0.67 0.89 -0.67 5.70 -0.67	Cable Loss dB 10.77 10.77 10.77 10.77 10.76 10.76 10.76 10.76 10.76	Frequency Aux Factor dB 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.0	Level dBuV 57.38 44.47 54.63 44.33 52.40 50.73 40.98 46.79	Limit Line dBuV 65.34 55.34 64.42 54.42 63.84 63.36 53.36 53.36 62.88	Limit -7.96 -10.87 -9.79 -10.09 -11.44 -12.63 -12.38 -16.09	Remark  QP Average QP Average QP Average QP	20 30		
10 0.15 .2 Freq Le The freq Le 0.162 47 2 0.162 34 3 0.182 44 4 0.182 34 5 0.194 42 6 0.206 40 7 0.206 30 8 0.219 36 9 0.442 32	Read LISN evel Factor Buv dB 7.28 -0.68 1.37 -0.68 1.54 -0.68 1.24 -0.68 2.31 -0.67 0.64 -0.67 0.89 -0.67 5.70 -0.67 2.82 -0.64	Cable Loss dB 10.77 10.77 10.77 10.77 10.76 10.76 10.76 10.76 10.76 10.76	Frequency Aux Factor dB 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.0	Level dBuV 57.38 44.47 54.63 44.33 52.40 50.73 40.98 46.79 42.90	Limit Line dBuV 65.34 55.34 64.42 54.42 63.84 63.36 53.36 53.36 62.88 47.02	Limit -7.96 -10.87 -9.79 -10.09 -11.44 -12.63 -12.38 -16.09 -4.12	Remark QP Average QP Average QP QP Average QP Average QP	20 30		
10 0.15 .2 Tace: 5 Freq Le TMHz 0 1 0.162 47 2 0.162 34 3 0.182 44 4 0.182 34 5 0.194 42 6 0.206 40 7 0.206 30 8 0.219 36 9 0.442 32 10 0.447 37 11 2.178 22	Read       LISN         Evel       Factor         IBuV       dB         1.28       -0.68         1.37       -0.68         1.24       -0.68         1.24       -0.68         2.31       -0.67         0.64       -0.67         0.89       -0.67         2.82       -0.64         7.40       -0.64         2.48       -0.70	Cable Loss dB 10.77 10.77 10.77 10.77 10.76 10.76 10.76 10.76 10.74 10.74 10.95	Frequency Aux Factor dB 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Level dBuV 57.38 44.47 54.63 44.33 52.40 50.73 40.98 46.79 42.90 47.48 32.93	Limit Line dBuV 65.34 55.34 64.42 54.42 63.84 63.36 53.36 62.88 47.02 56.93 46.00	Limit -7.96 -10.87 -9.79 -10.09 -11.44 -12.63 -12.38 -16.09 -4.12 -9.45 -13.07	Remark QP Average QP Average QP Average QP Average QP Average QP	20 30		
10 0.15 .2 Freq Le Freq Le 1 0.162 47 2 0.162 34 3 0.182 44 4 0.182 34 5 0.194 42 6 0.206 40 7 0.206 30 8 0.219 36 9 0.442 32 10 0.447 37 11 2.178 22	Read LISN evel Factor Buv dB 7.28 -0.68 1.37 -0.68 1.54 -0.68 1.24 -0.68 1.24 -0.68 2.31 -0.67 0.64 -0.67 0.89 -0.67 5.70 -0.67 2.82 -0.64 7.40 -0.64	Cable Loss dB 10.77 10.77 10.77 10.77 10.76 10.76 10.76 10.76 10.74 10.74	Frequency Aux Factor dB 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Level dBuV 57.38 44.47 54.63 44.33 52.40 50.73 40.98 46.79 42.90 47.48	Limit Line dBuV 65.34 55.34 64.42 54.42 63.84 63.36 53.36 62.88 47.02 56.93 46.00	Limit -7.96 -10.87 -9.79 -10.09 -11.44 -12.63 -12.38 -16.09 -4.12 -9.45 -13.07	Remark  QP Average QP Average QP Average QP Average QP	20 30		

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

## 6.4 Bandwidth

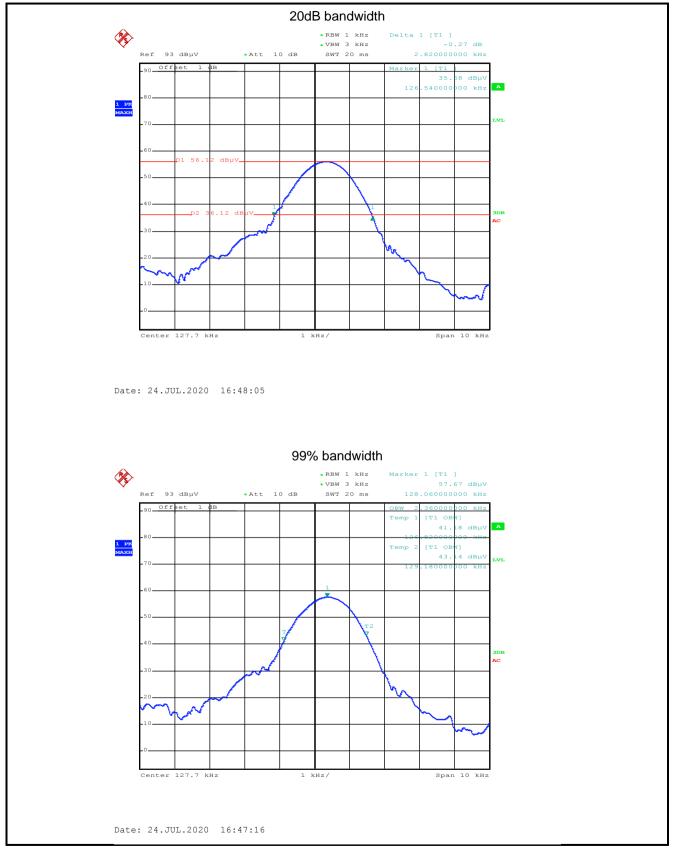
Test Requirement:	FCC Part15 C Section 15.215 (c)					
Receiver setup:	RBW=1 kHz, VBW=3 kHz, detector: Peak					
Limit:	The fundamentalemission be kept within atleast the central 80% of the permittedband					
Test Procedure:	<ol> <li>According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>Set the EUT to proper test channel.</li> <li>Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points.</li> <li>Read 20dB bandwidth.</li> </ol>					
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**

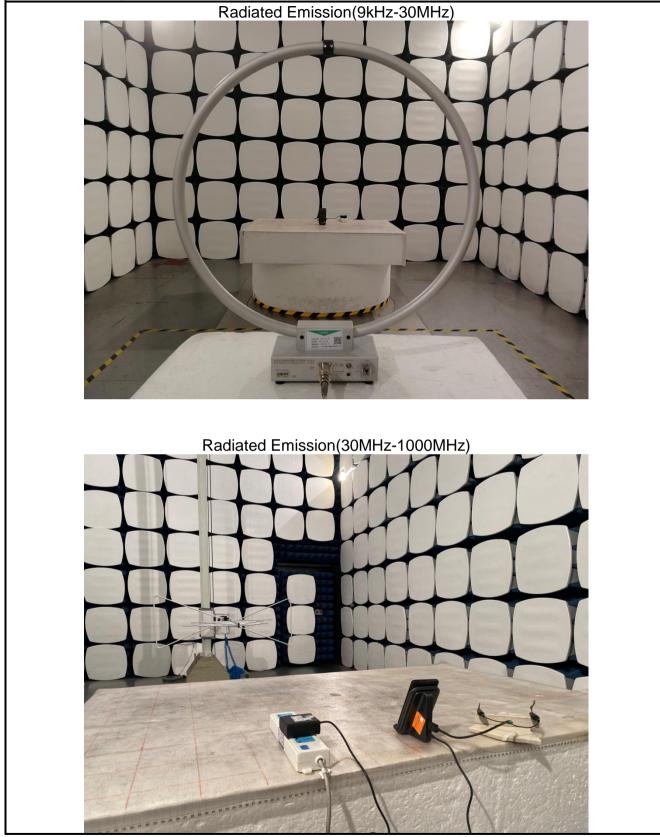
20dB bandwidth (kHz)	99% bandwidth (kHz)	Limits
2.82	2.36	N/A
Remark: For report purpose of	nly.	



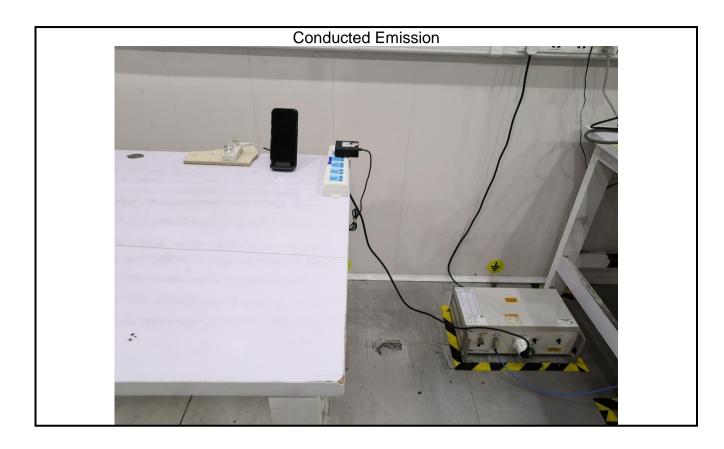
#### Test plot as follows:



## 7 Test Setup Photos







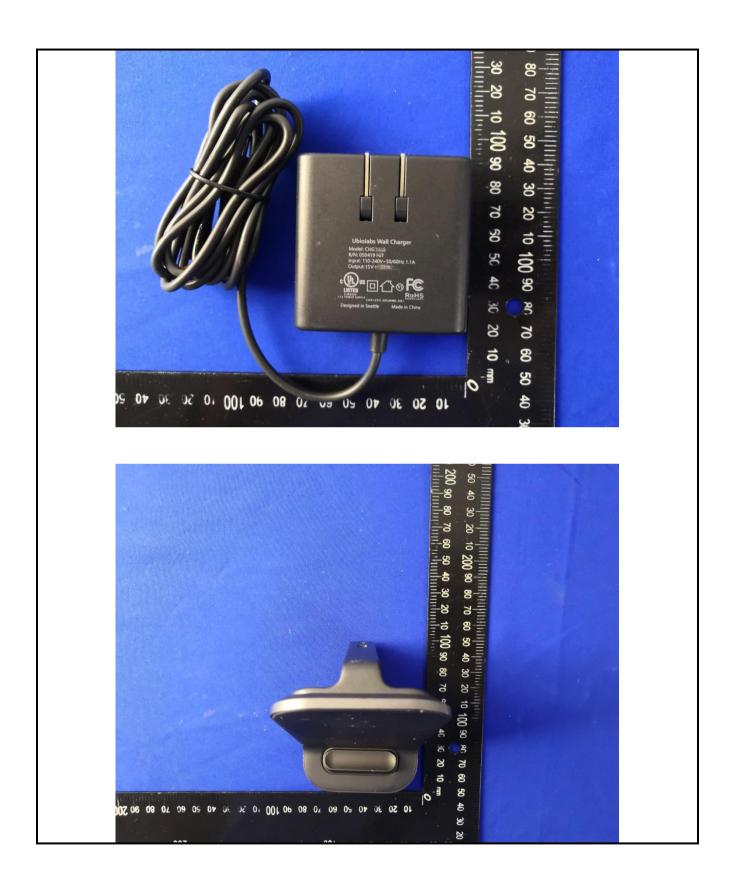


## **8 EUT Constructional Photos**

CC















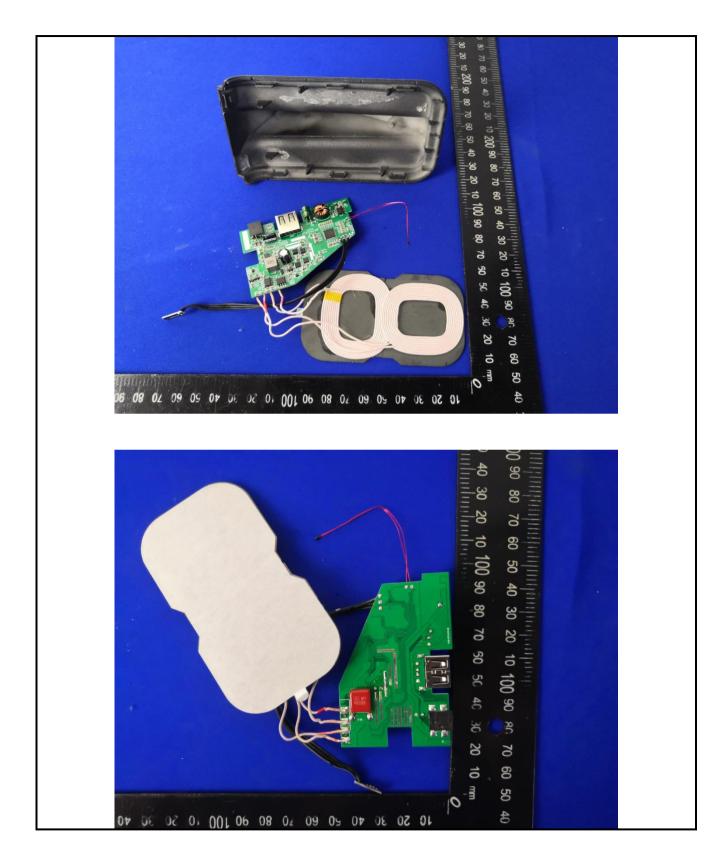




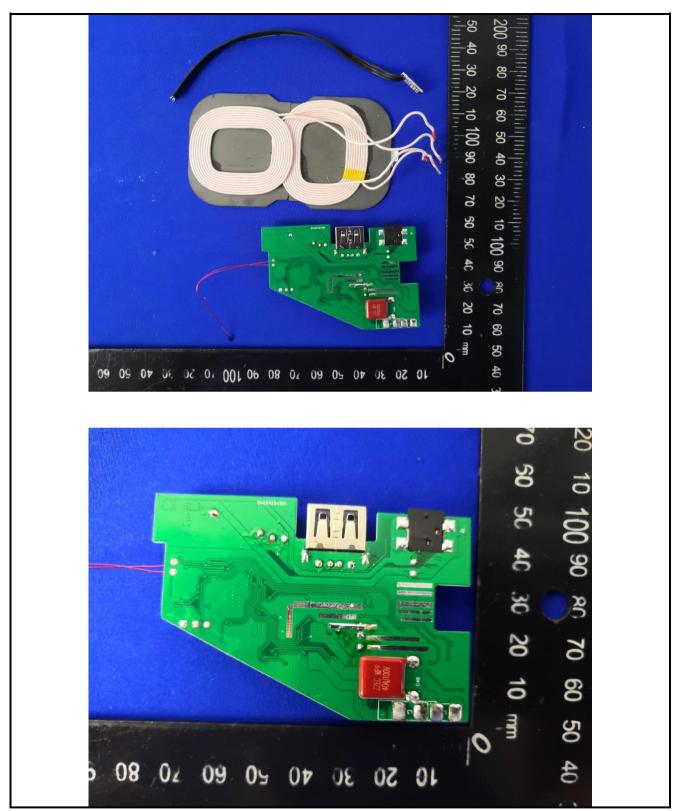








#### Report No: CCISE200707001V01







-----End of report-----