

# FCC TEST REPORT

FCC ID: 2ALOS-CW10

Product Name:	Wireless Charger
Trademark:	hoco
Model Number:	CW10 CW3A, CW5, CW5A, CW6, CW7, CW8, CW11, CW12, CW13, CW14, CW15, CW16, CW17, CW18, CW19, CW20, CW21, CW22, CW23
Prepared For :	Haoku Technology Development(SHENZHEN)Co., Ltd
Address :	Room 408, 4/F, Building A, Weidonglong Business Building, Meilong Road, Longhua New District, Shenzhen City, P.R. China
Prepared By:	Shenzhen BCTC Testing Co., Ltd.
Address :	BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China
Test Date:	Feb. 27 - Mar. 06, 2018
Date of Report :	Mar. 06, 2018
Report No.:	BCTC-FY180100525E



## **TABLE OF CONTENTS**

Report No.: BCTC-FY180100525E

TEST	REPORT DECLARATION	3
1.GEN	ERAL INFORMATION	4
1.1.	Report information	4
1.2.	Measurement Uncertainty	
1.3.	Test Facility	4
1.4.	Test Uncertainty	4
2.PRO	DUCT DESCRIPTION	5
2.1.	EUT Description	5
2.2.	Block Diagram of EUT Configuration	5
2.3.	Test Conditions	
2.4.	Description Of Support Units (Conducted Mode)	<del>(</del>
<b>3.TEST</b>	TRESULTS SUMMARY	6
4. TEST	EQUIPMENT USED	7
4.1.	For Conducted Emission Test	7
4.2.	For Radiated Emission Measurement	7
5.CON	DUCTED EMISSION TEST	8
5.1.	Block Diagram of Test Setup	8
5.2.	Test Standard	
5.3.	Conducted Emission Limit	8
5.4.	EUT Configuration on Test	8
5.5.	Operating Condition of EUT	
5.6.	Test Procedure	
5.7.	Test Result	9
6.RADI	ATED EMISSION MEASUREMENT	.14
6.1.	Block Diagram of Test Setup	. 14
6.2.	Test Standard	
6.3.	EMI Test Receiver Setup	
6.4.	EUT Configuration on Test	
6.5.	Test Result	
7. EUT	TEST PHOTOS	.21
<b>8. EUT</b>	PHOTOS	.23



### **TEST REPORT DECLARATION**

Applicant : Haoku Technology Development(SHENZHEN)Co., Ltd

Address : Room 408, 4/F, Building A, Weidonglong Business Building,

Meilong Road, Longhua New District, Shenzhen City, P.R. China

Report No.: BCTC-FY180100525E

**EUT Description** : Wireless Charger

Model Number : CW10

**Test Standards:** 

FCC Part 15 C: 2015

This device described above has been tested by BCTC, and the test results show that the equipment under And it is applicable only to the tested sample identified in the report.

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Prepared by(Engineer): Eric Yang

Reviewer(Supervisor): Jade Yang

Approved(Manager): Carson Zhang





#### 1. GENERAL INFORMATION

### 1.1.Report information

- 1.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BCTC approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BCTC in any way guarantees the later performance of the product/equipment.
- 1.1.2.The sample/s mentioned in this report is/are supplied by Applicant, BCTC therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 1.1.3.Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BCTC, unless the applicant has authorized BCTC in writing to do so.

## 1.2.Measurement Uncertainty

Available upon request.

## 1.3.Test Facility

Site Description

Name of Firm : Shenzhen BCTC Testing Co., Ltd.

Site Location : BCTC Building & 1-2F, East of B Building,

Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District,

Report No.: BCTC-FY180100525E

Shenzhen, China

1.4.Test Uncertainty

Conducted Emission =  $\pm 2.66$ dB

Uncertainty

Radiated Emission Uncertainty = ±4.15dB



#### 2. PRODUCT DESCRIPTION

### 2.1.EUT Description

**Applicant** 

Description : Wireless Charger

Haoku Technology Development(SHENZHEN)Co., Ltd

Room 408, 4/F, Building A, Weidonglong Business Building, Meilong

Road, Longhua New District, Shenzhen City, P.R. China

Haoku Technology Development(SHENZHEN)Co., Ltd Manufacturer

Room 408, 4/F, Building A, Weidonglong Business Building, Meilong

Road, Longhua New District, Shenzhen City, P.R. China

CW10 Model Number

Serial Model CW3A, CW5, CW5A, CW6, CW7, CW8, CW11, CW12, CW13,

CW14, CW15, CW16, CW17, CW18, CW19, CW20, CW21,

CW22, CW23

**Power Supply** DC5V2A /9V1.67A

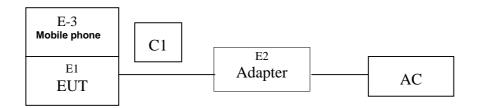
Model : All the model are the same circuit and RF module, except

Difference model names.

Work

110-205KHz Frequency

## 2.2.Block Diagram of EUT Configuration



#### 2.3.Test Conditions

Temperature: 23~25°C

Relative Humidity: 55~63 %



## 2.4. Description Of Support Units (Conducted Mode)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Wireless Charger	hoco	CW10	N/A	EUT
E-2	Adapter	N/A	BCTC001	N/A	AC100-240V~50/60Hz 0.2A Output: 5.0V 3.0A 9.0V 2.0A
E-3	Mobile phone	N/A	OPPO R9	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	0.8M	USB cable unshielded

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

## 3. TEST RESULTS SUMMARY

**Table 1 Test Results Summary** 

Test Items	Test Results
Conducted disturbance	Pass
Radiated disturbance	Pass

Remark: "N/A" means "Not applicable."



## 4. TEST EQUIPMENT USED

## 4.1.For Conducted Emission Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	IFS('I	1166.5950K03-1 01165-ha	2017.08.27	2018.08.26
2	LISN	SCHWARZBECK	NSLK8127	8127739	2017.08.27	2018.08.26
3	LISN	R&S	NSLK8126	8126487	2017.08.27	2018.08.26
4	RF cables	R&S	R204	R20X	2017.08.27	2018.08.26
5	Attenuator	R&S	ESH3-Z2	143206	2017.08.27	2018.08.26

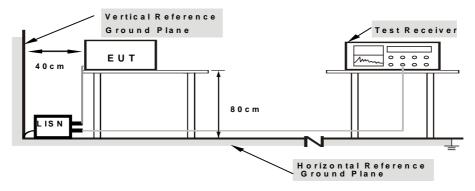
## 4.2.For Radiated Emission Measurement

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
5	Horn Antenna (14GHz-40GHz)	SCHWARZBECK	BBHA 9170	9170-181	2017.09.03	2018.09.02
6	Amplifier (9KHz-6GHz)	SCHWARZBECK	BBV9744	9744-0037	2017.08.27	2018.08.26
7	Amplifier (1GHz-18GHz)	SCHWARZBECK	BBV9718	9718-309	2017.08.27	2018.08.26
8	Amplifier (18GHz-40GHz)	SCHWARZBECK	BBV 9721	9721-205	2017.08.27	2018.08.26
9	Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519B	00014	2017.09.03	2018.09.02
10	RF cables1 (9kHz-1GHz)	R&S	R203	R20X	2017.08.27	2018.08.26
11	RF cables2 (1GHz-40GHz)	R&S	R204	R21X	2017.08.27	2018.08.26
12	Antenna connector	Florida RF Labs	N/A	RF 01#	2017.08.27	2018.08.26
13	Power Metter	ANRITSU	ML2487A	6K00001568	2017.08.27	2018.08.26
14	Power Sensor (AV)	ANRITSU	ML2491A	030989	2017.08.27	2018.08.26
15	Signal Analyzer 9kHz-26.5GHz	Agilent	N9010A	MY48030494	2017.08.27	2018.08.26
16	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	2017.08.27	2018.08.26
17	D.C. Power Supply	LongWei	PS-305D	010964729	2017.08.27	2018.08.26



## 5. CONDUCTED EMISSION TEST

## 5.1.Block Diagram of Test Setup



Note: 1.Support units were connected to second LISN.

2.B oth of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

(EUT: Wireless Charger )

#### 5.2.Test Standard

FCC§15.207

#### 5.3.Conducted Emission Limit

Frequency	Limits dB(μV)			
MHz	Quasi-peak Level	Average Level		
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*		
0.50 ~ 5.00	56	46		
5.00 ~ 30.00	60	50		

Notes: 1. \*Decreasing linearly with logarithm of frequency.

## 5.4.EUT Configuration on Test

The following equipments are installed on conducted emission test to meet Part 15 B requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

#### 5.4.1.milestone dual

Model Number: CW10

Report No.: BCTC-FY180100525E



### 5.5. Operating Condition of EUT

- 5.5.1. Setup the EUT and simulators as shown in Section 5.1.
- 5.5.2. Turn on the power of all equipments.
- 5.5.3.Let the EUT work in test modes (EUT Working) and test it.

#### 5.6.Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESHS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

The bandwidth of the test receiver (R&S Test Receiver ESHS30) is set at 10KHz.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

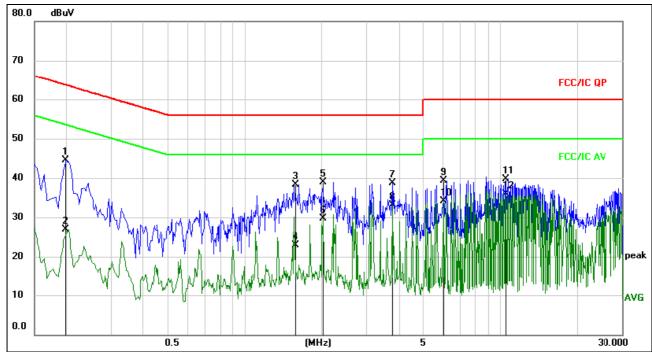
#### 5.7.Test Result

#### **PASS**

Please refer to the following pages.



EUT:	Wireless Charger	Model Name:	CW10
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V Form Adapter	Test Mode:	Normal Link

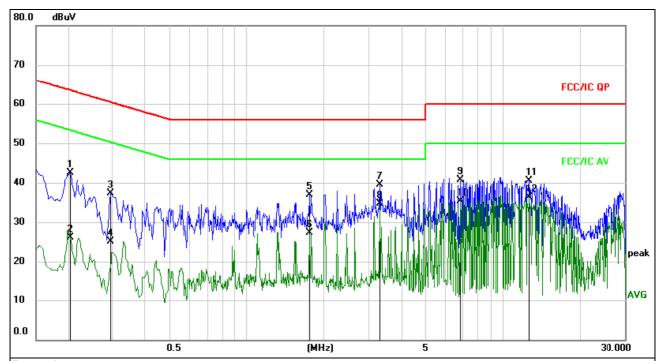


- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1995	34.89	9.65	44.54	63.63	-19.09	QP	
2		0.1995	17.31	9.65	26.96	53.63	-26.67	AVG	
3		1.5720	28.69	9.70	38.39	56.00	-17.61	QP	
4		1.5720	13.26	9.70	22.96	46.00	-23.04	AVG	
5		2.0264	29.18	9.71	38.89	56.00	-17.11	QP	
6		2.0264	20.06	9.71	29.77	46.00	-16.23	AVG	
7		3.7680	29.00	9.73	38.73	56.00	-17.27	QP	
8	*	3.7680	23.32	9.73	33.05	46.00	-12.95	AVG	
9		6.0314	29.59	9.78	39.37	60.00	-20.63	QP	
10		6.0314	24.25	9.78	34.03	50.00	-15.97	AVG	
11		10.5450	29.90	9.82	39.72	60.00	-20.28	QP	
12		10.5450	26.11	9.82	35.93	50.00	-14.07	AVG	



EUT:	Wireless Charger	Model Name. :	CW10
Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V Form Adapter	Test Mode:	Normal Link

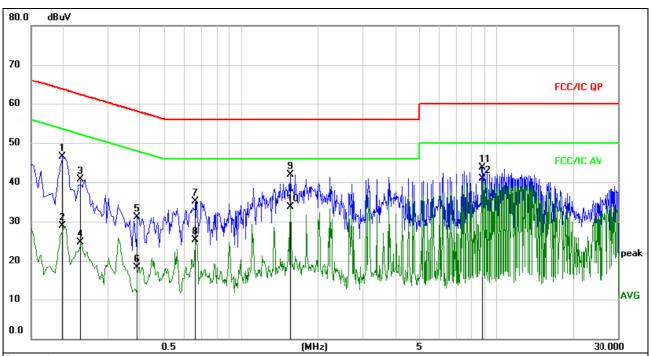


- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2040	32.90	9.65	42.55	63.45	-20.90	QP	
2		0.2040	16.40	9.65	26.05	53.45	-27.40	AVG	
3		0.2940	27.73	9.66	37.39	60.41	-23.02	QP	
4		0.2940	15.45	9.66	25.11	50.41	-25.30	AVG	
5		1.7609	27.21	9.71	36.92	56.00	-19.08	QP	
6		1.7609	17.62	9.71	27.33	46.00	-18.67	AVG	
7		3.3045	29.78	9.72	39.50	56.00	-16.50	QP	
8	*	3.3045	25.03	9.72	34.75	46.00	-11.25	AVG	
9		6.8460	30.95	9.80	40.75	60.00	-19.25	QP	
10		6.8460	25.52	9.80	35.32	50.00	-14.68	AVG	
11		12.6510	30.73	9.83	40.56	60.00	-19.44	QP	
12		12.6510	26.47	9.83	36.30	50.00	-13.70	AVG	



EUT:	Wireless Charger	Model Name:	CW10
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 9V Form Adapter	Test Mode:	Normal Link

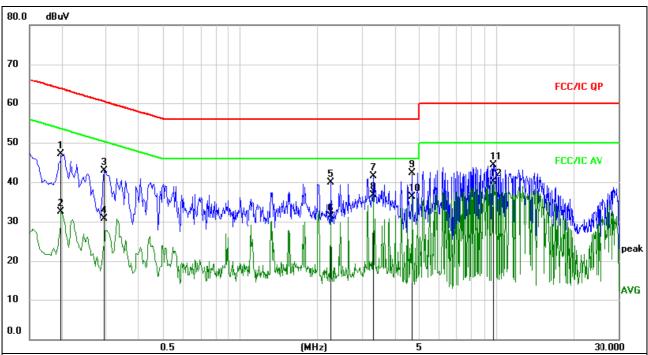


- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1995	36.89	9.65	46.54	63.63	-17.09	QP	
2	i.	0.1995	19.31	9.65	28.96	53.63	-24.67	AVG	
3		0.2355	31.10	9.65	40.75	62.25	-21.50	QP	
4		0.2355	15.10	9.65	24.75	52.25	-27.50	AVG	
5		0.3930	21.51	9.67	31.18	58.00	-26.82	QP	
6	1	0.3930	8.65	9.67	18.32	48.00	-29.68	AVG	
7		0.6584	25.34	9.68	35.02	56.00	-20.98	QP	
8		0.6584	15.68	9.68	25.36	46.00	-20.64	AVG	
9		1.5629	32.19	9.70	41.89	56.00	-14.11	QP	
10	j	1.5629	23.92	9.70	33.62	46.00	-12.38	AVG	
11		8.8125	33.96	9.82	43.78	60.00	-16.22	QP	
12	*	8.8125	31.00	9.82	40.82	50.00	-9.18	AVG	



EUT:	Wireless Charger	Model Name:	CW10
Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 9V Form Adapter	Test Mode:	Normal Link



- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1995	37.40	9.65	47.05	63.63	-16.58	QP	
2		0.1995	22.83	9.65	32.48	53.63	-21.15	AVG	
3		0.2939	33.23	9.66	42.89	60.41	-17.52	QP	
4		0.2939	20.95	9.66	30.61	50.41	-19.80	AVG	
5		2.2559	30.11	9.72	39.83	56.00	-16.17	QP	
6		2.2559	21.50	9.72	31.22	46.00	-14.78	AVG	
7		3.3044	31.78	9.72	41.50	56.00	-14.50	QP	
8	*	3.3044	27.03	9.72	36.75	46.00	-9.25	AVG	
9		4.6905	32.53	9.73	42.26	56.00	-13.74	QP	
10		4.6905	26.48	9.73	36.21	46.00	-9.79	AVG	
11		9.7170	34.55	9.82	44.37	60.00	-15.63	QP	
12		9.7170	30.36	9.82	40.18	50.00	-9.82	AVG	

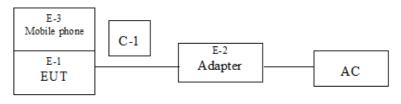
Report No.: BCTC-FY180100525E



### 6. RADIATED EMISSION MEASUREMENT

## 6.1.Block Diagram of Test Setup

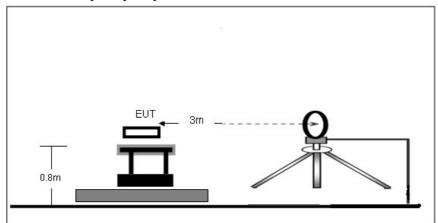
6.1.1.Block Diagram of connection between the EUT and the simulators



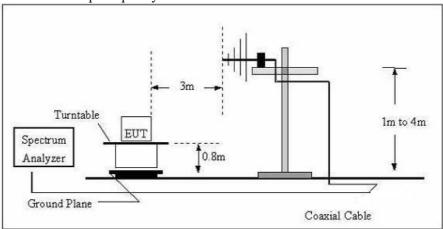
(EUT: Wireless Charger

#### 6.1.2. Anechoic Chamber Test Setup Diagram

#### (A) Radiated Emission Test-Up Frequency Below 30MHz



#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

**FCC Report** 



#### 6.2.Test Standard

FCC §15.209; §15.205;

### 6.3.EMI Test Receiver Setup

The system was investigated from 9kHz to1GHz.

During the radiated emission test, the EMI test receiver setup was set with the following configurations:

Report No.: BCTC-FY180100525E

Frequency Range	RBW	Video B/W	Detector
9 kHz – 150 kHz	200 kHz	1 kHz	QP
150 kHz – 30MHz	9kHz	30kHz	QP
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

Note: For the frequency bands 9-90 kHz and 110-490 kHz, the test was based on average detector.

## 6.4.EUT Configuration on Test

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

#### 6.5.Test Result

#### **PASS**

Please refer to the following pages.



EUT:	Wireless Charger	Model Name:	CW10
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 9V Form Adapter		
Test Mode:	Normal Link		

## 9kHz-490kHz

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(kHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
54.3621	52.37	20.68	73.05	132.9	-59.85	PK
54.3621	41.21	20.68	61.89	112.9	-51.01	AV
136.7586	57.10	21.04	78.14	124.89	-46.75	PK
136.7586	44.59	21.04	65.63	104.89	-39.26	AV
443.2562	48.84	22.21	71.05	114.67	-43.62	PK
443.2562	37.90	22.21	60.11	94.67	-34.56	AV

## 490kHz-30MHz

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
0.6492	22.17	23.61	45.78	71.36	-25.58	QP
2.3654	15.26	24.95	40.21	66.10	-25.89	QP
5.1546	14.51	25.01	39.52	59.34	-19.82	QP
15.9546	10.74	26.95	37.69	59.63	-21.94	QP
20.6534	10.99	27.05	38.04	49.54	-11.50	QP
24.4425	8.18	27.45	35.63	49.54	-13.91	QP

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

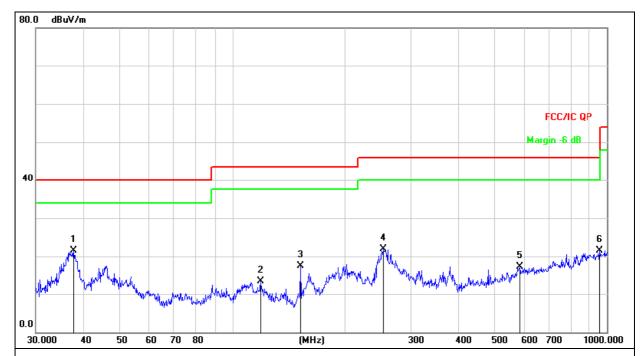
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.



## 30MHz-1GHz

EUT:	Wireless Charger	Model Name:	CW10
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization:	Horizontal
Test Voltage :	DC 5V Form Adapter		
Test Mode:	Normal Link		



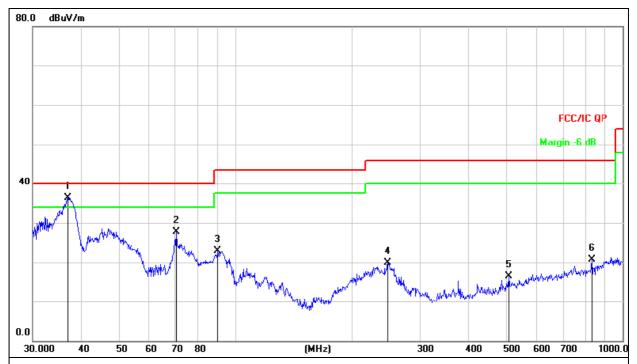
Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	37.8121	37.09	-15.50	21.59	40.00	-18.41	QP
2		119.4361	30.83	-17.35	13.48	43.50	-30.02	QP
3		152.1297	36.47	-18.99	17.48	43.50	-26.02	QP
4		252.9482	36.93	-15.08	21.85	46.00	-24.15	QP
5		584.7895	24.22	-6.93	17.29	46.00	-28.71	QP
6		955.4381	23.44	-1.96	21.48	46.00	-24.52	QP



EUT:	Wireless Charger	Model Name:	CW10
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 5V Form Adapter		
Test Mode:	Normal Link		

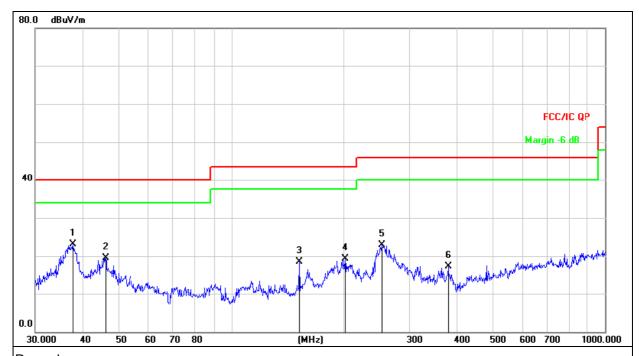


Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	36.8953	52.07	-15.82	36.25	40.00	-3.75	QP
2		70.3365	45.44	-17.66	27.78	40.00	-12.22	QP
3		89.9047	40.43	-17.46	22.97	43.50	-20.53	QP
4		247.6819	35.16	-15.19	19.97	46.00	-26.03	QP
5		508.2582	25.73	-9.18	16.55	46.00	-29.45	QP
6		830.4002	24.35	-3.57	20.78	46.00	-25.22	QP



EUT:	Wireless Charger	Model Name:	CW10
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 9V Form Adapter		
Test Mode:	Normal Link		



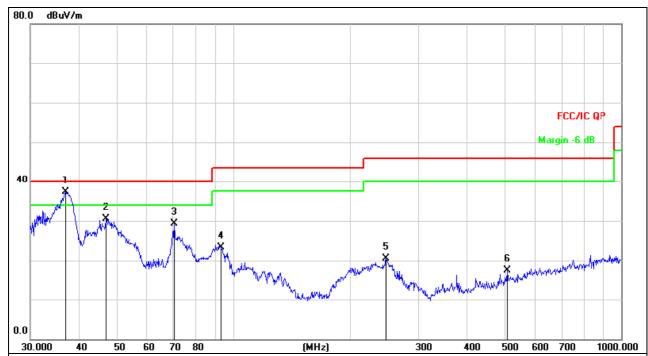
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	37.8121	38.59	-15.50	23.09	40.00	-16.91	QP
2		46.1779	33.51	-14.02	19.49	40.00	-20.51	QP
3		152.1297	37.47	-18.99	18.48	43.50	-25.02	QP
4		201.3930	35.66	-16.27	19.39	43.50	-24.11	QP
5		252.9482	37.93	-15.08	22.85	46.00	-23.15	QP
6		379.9141	29.48	-12.15	17.33	46.00	-28.67	QP



EUT:	Wireless Charger	Model Name:	CW10
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization:	Vertical
Test Voltage :	DC 9V Form Adapter		
Test Mode:	Normal Link		

Shenzhen BCTC Testing Co., Ltd.



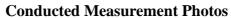
#### Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	36.8952	53.07	-15.82	37.25	40.00	-2.75	QP
2		46.8303	44.45	-14.00	30.45	40.00	-9.55	QP
3		70.3365	46.94	-17.66	29.28	40.00	-10.72	QP
4		92.7871	40.14	-16.91	23.23	43.50	-20.27	QP
5	2	247.6819	35.66	-15.19	20.47	46.00	-25.53	QP
6	Į	508.2581	26.73	-9.18	17.55	46.00	-28.45	QP



## 7. EUT TEST PHOTOS

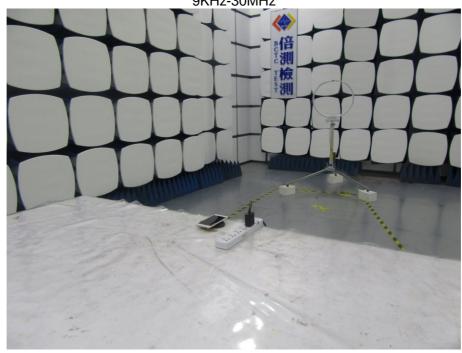


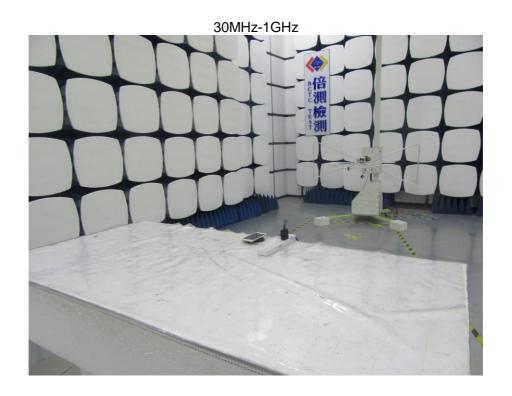
Report No.: BCTC-FY180100525E













## 8. EUT PHOTOS





\*\*\*\* END OF REPORT \*\*\*\*