

## RADIO TEST REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant / Manufacturer : ZHUHE (XIAMEN) NEW ENERGY TECHNOLOGY CO., LTD.

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Factory : XIAMEN ZHUHE ELECTRONIC TECHNOLOGY CO., LTD.

Address : Unit 301, No. 32, Xiangyue Road, Torch Hi-Tech Industrial Development Zone, Xiang'an, Xiamen.

E.U.T. : Wireless Charger

Brand Name : 

Model No. : WX10-G15-30mm

FCC ID : 2AVSVWX1001

Measurement Standard : FCC PART 15 Subpart C

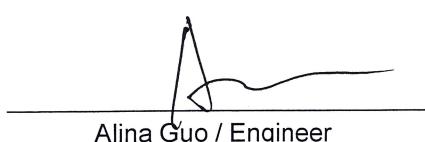
Date of Receiver : February 28, 2020

Date of Test : March 02, 2020 to March 16, 2020

Date of Report : March 17, 2020

This Test Report is Issued Under the Authority of :

Prepared by



Alina Guo / Engineer

Approved & Authorized Signer



This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

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## Revision History of This Test Report

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test

Product name	: Wireless Charger
Main model	: WX10-G15-30mm
Additional model	: N/A
Model difference	: N/A
Power Supply	: Input: DC 24-36V Output: 10W Max
Test voltage	: AC 120V 60Hz adapter input.
Adapter	: N/A
Cable	: DC Line: 20cm
Software version	: V1.0
Hardware version	: V1.0
Note	: N/A
Remark	: N/A
Frequency Range	: 110.5-130KHz
Test frequency	: 121.2KHz
Test output	: DC 9V 1.1A 10W Max

## 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **2AVSVWX1001** filing to comply with FCC Part 15, Subpart C Rule.

## 1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters.

## 1.4 Equipment Modifications

Not available for this EUT intended for grant.

## 1.5 Support Device

Adapter	: Manufacturer: Vornado M/N: PC3-0187 Input: AC 100-240V 50/60Hz, 1.5A Max Output: DC 24V, 2.5A
Simulated Load	: Provided by manufacturer.

## 1.6 Test Facility and Location

### Site Description

EMC Lab : Listed by CNAS, August 13, 2018  
The certificate is valid until August 13, 2024  
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01  
The Certificate Registration Number is L5795.

Listed by A2LA, November 01, 2017  
The certificate is valid until December 31, 2021  
The Laboratory has been assessed and proved to be in compliance with ISO17025  
The Certificate Registration Number is 4429.01

Listed by FCC, November 06, 2017  
The Designation Number is CN1214  
Test Firm Registration Number: 907417

### Name of Firm

Listed by Industry Canada, June 08, 2017  
The Certificate Registration Number. Is 46405-9743  
: Dongguan Nore Testing Center Co., Ltd.  
(Dongguan NTC Co., Ltd.)

### Site Location

: Building D, Gaosheng Science and Technology park, Hongtu road, Nancheng district, Dongguan city, Guangdong province, China

## 1.7 Summary of Test Results

FCC Rules	Description Of Test	Uncertainty	Result
§15.35	20dB Bandwidth	$\pm 1.42 \times 10^{-4}\%$	Compliant
§15.207 (a)	AC Power Conducted Emission	$\pm 1.06\text{dB}$	Compliant
§15.209	Radiated Emission	$\pm 3.70\text{dB}$	Compliant

## 2. System Test Configuration

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 special Accessories

Not available for this EUT intended for grant.

### 2.3 Description of test modes

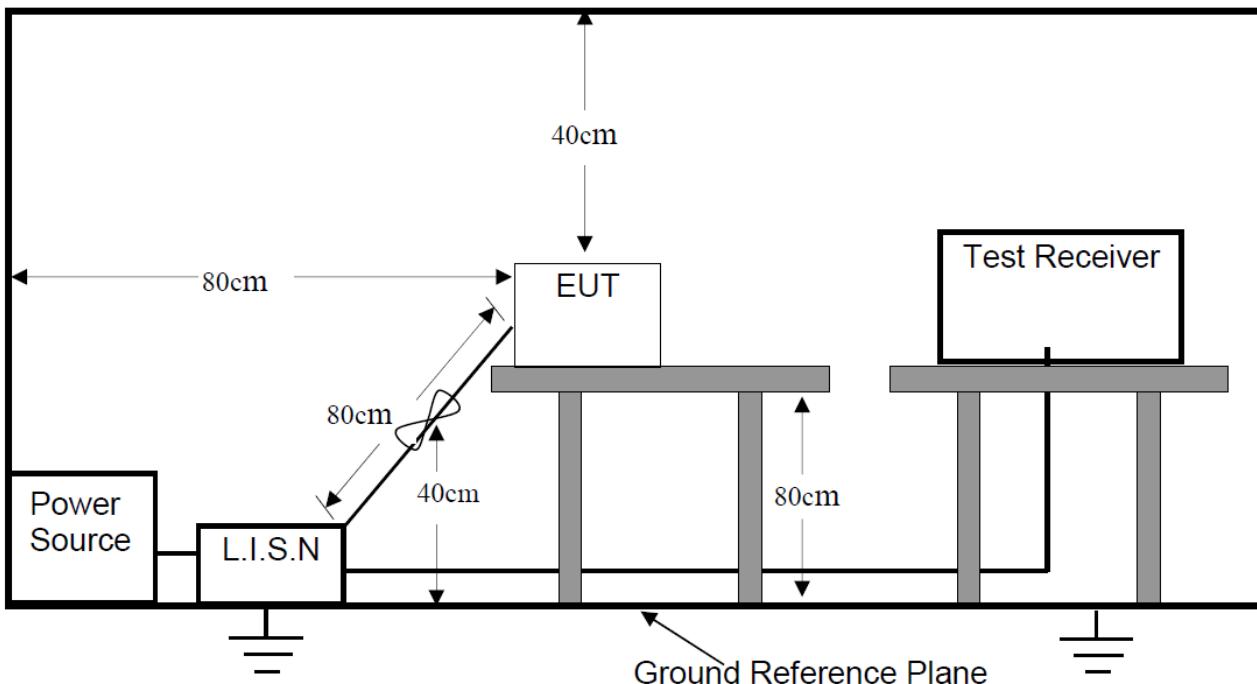
The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and normal mode is programmed. The Lowest, middle and highest channel were chosen for testing.

### 2.4 EUT Exercise

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

### 3. Conducted Emissions Test

#### 3.1 Test SET-UP (Block Diagram of Configuration)



#### 3.2 Test Condition

**Test Requirement:** FCC Part 15.207

**Frequency Range:** 150KHz ~ 30MHz

**Detector:** RBW 9KHz, VBW 30KHz

**Operation Mode:** Full Load, Half Load, Empty Load

#### 3.3 Measurement Results

Please refer to following plots of the worst case: Full Load.



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Conducted Emission Measurement

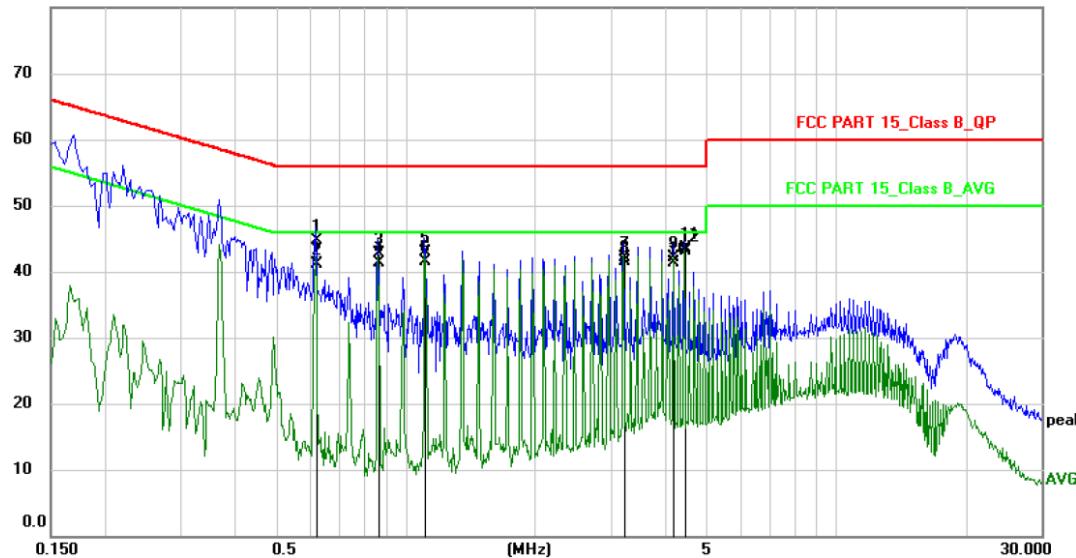
File :WX10-G15-30mm

Data :#7

Date: 2020/3/9

Time: 17:18:20

80.0 dBuV



Site

Phase: *L1*

Temperature: 26

Limit: FCC PART 15\_Class B\_QP

Power: AC120V/60Hz

Humidity: 50 %

EUT: Wireless Charger

M/N: WX10-G15-30mm

Mode: TX

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.6179	34.05	10.65	44.70	56.00	-11.30	QP
2		0.6179	30.55	10.65	41.20	46.00	-4.80	AVG
3		0.8659	32.12	10.68	42.80	56.00	-13.20	QP
4		0.8659	30.72	10.68	41.40	46.00	-4.60	AVG
5		1.1100	32.30	10.70	43.00	56.00	-13.00	QP
6		1.1100	30.90	10.70	41.60	46.00	-4.40	AVG
7		3.2100	31.49	10.71	42.20	56.00	-13.80	QP
8		3.2100	30.79	10.71	41.50	46.00	-4.50	AVG
9		4.1977	31.49	10.71	42.20	56.00	-13.80	QP
10		4.1977	30.59	10.71	41.30	46.00	-4.70	AVG
11		4.4460	32.79	10.71	43.50	56.00	-12.50	QP
12	*	4.4460	32.39	10.71	43.10	46.00	-2.90	AVG



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#### Conducted Emission Measurement

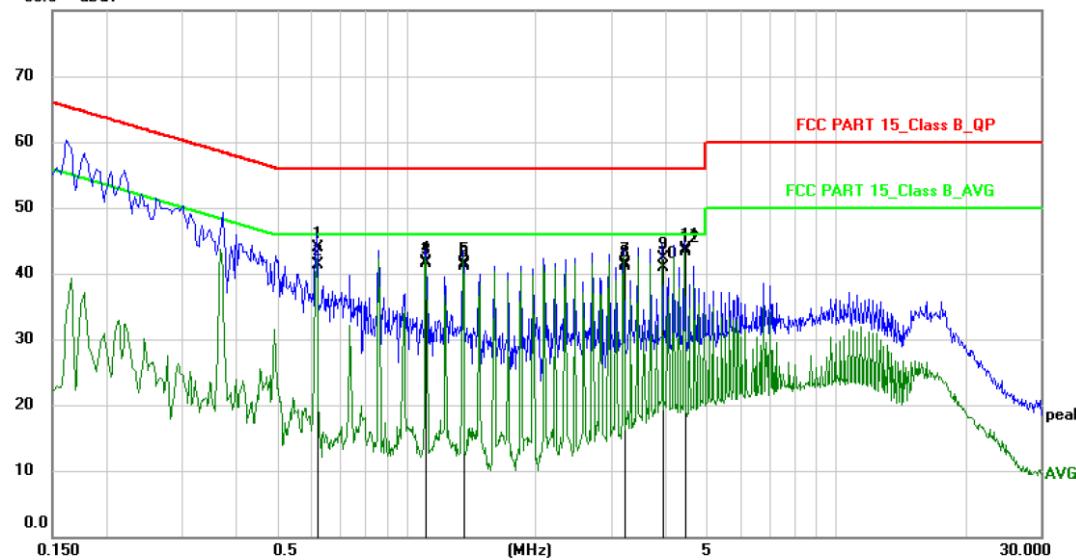
File :WX10-G15-30mm

Data #:8

Date: 2020/3/9

Time: 17:25:38

80.0 dBuV



Site

Phase: *N*

Temperature: 26

Limit: FCC PART 15\_Class B\_QP

Power: AC120V/60Hz

Humidity: 50 %

EUT: Wireless Charger

M/N: WX10-G15-30mm

Mode: TX

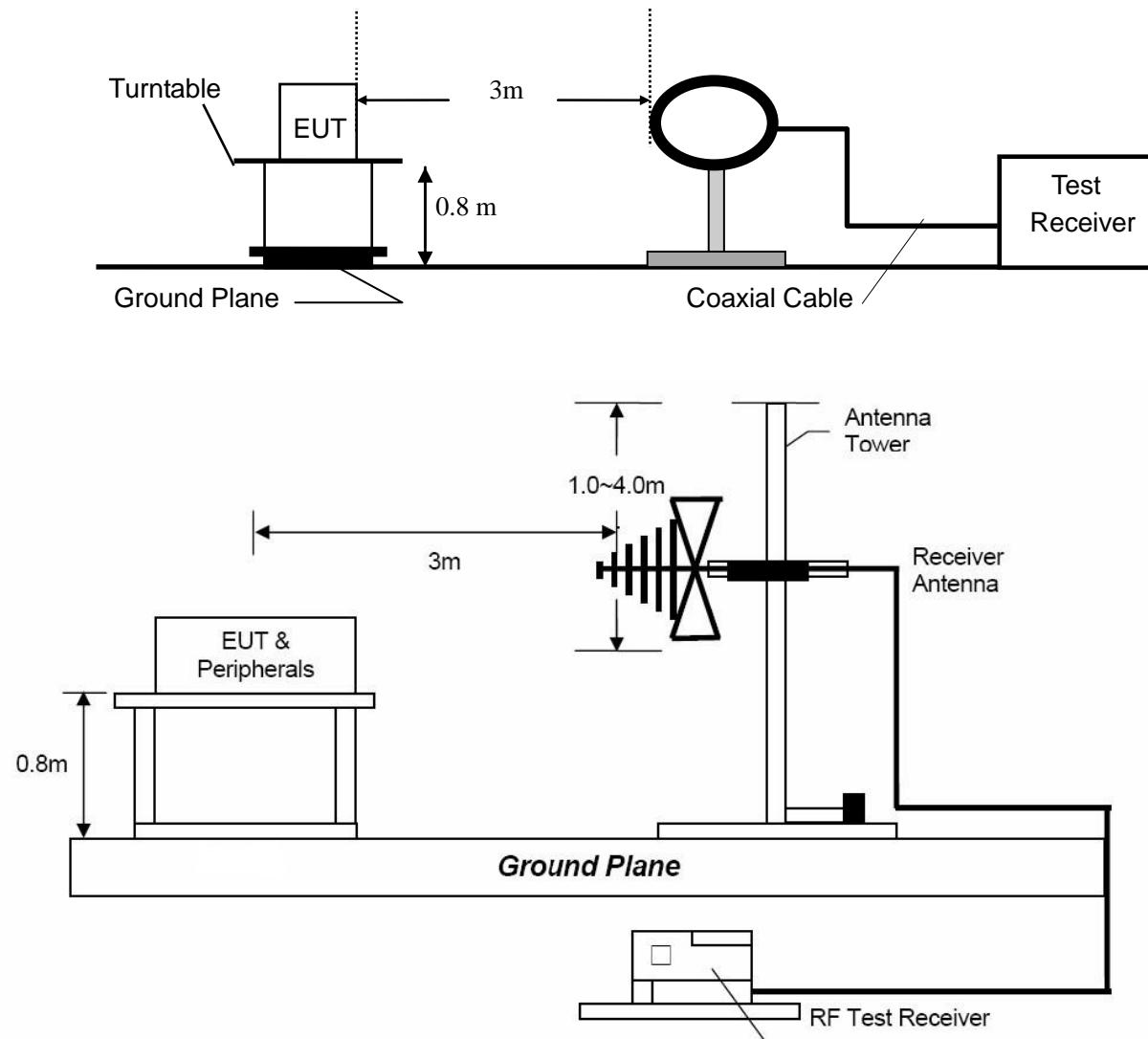
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.6179	33.35	10.65	44.00	56.00	-12.00	QP
2		0.6179	30.65	10.65	41.30	46.00	-4.70	AVG
3		1.1100	30.80	10.70	41.50	56.00	-14.50	QP
4		1.1100	31.00	10.70	41.70	46.00	-4.30	AVG
5		1.3580	30.80	10.70	41.50	56.00	-14.50	QP
6		1.3580	30.50	10.70	41.20	46.00	-4.80	AVG
7		3.2100	30.89	10.71	41.60	56.00	-14.40	QP
8		3.2100	30.39	10.71	41.10	46.00	-4.90	AVG
9		3.9500	31.69	10.71	42.40	56.00	-13.60	QP
10		3.9500	30.29	10.71	41.00	46.00	-5.00	AVG
11		4.4460	32.99	10.71	43.70	56.00	-12.30	QP
12	*	4.4460	32.59	10.71	43.30	46.00	-2.70	AVG

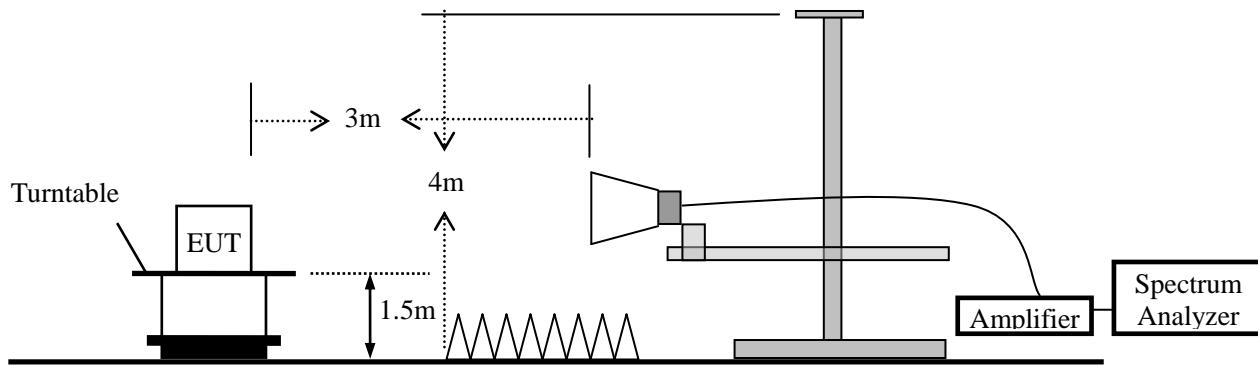
## 4. Radiated Emission Test

### 4.1 Test SET-UP (Block Diagram of Configuration)

#### 4.1.1 Radiated Emission Test Set-Up, Frequency Below 30MHz



#### 4.1.2 Radiated Emission Test Set-Up, Frequency above 1GHz



## 4.2 Measurement Procedure

- a. Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room.
- b. For the radiated emission test above 1GHz:  
The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna 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.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Level	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	10 Hz

#### 4.3 Limit

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)
		µV/m
0.009 ~ 0.490	300	2400/F(kHz)
0.490 ~ 1.705	30	24000/F(kHz)
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

Remark : (1) Emission level (dB) $\mu$ V = 20 log Emission level  $\mu$ V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

(4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz/ RB 200Hz for AV
	90KHz~110KHz/ RB 200Hz for QP
	110KHz~490KHz/ RB 200Hz for AV
	490KHz~30MHz/ RB 9KHz for QP
	30MHz~1000MHz/ RB 120KHz for QP

FCC 15.209 (d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

#### 4.4 Measurement Results

**Please refer to following plots of the worst case: Full Load.**



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#### Radiated Emission Measurement

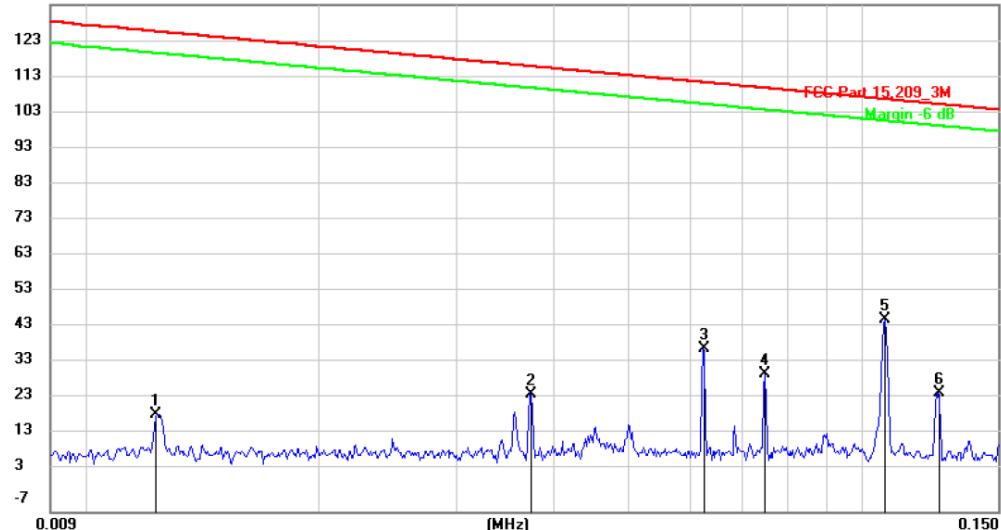
File :WX10-G15-30mm

Data :#14

Date: 2020/3/7

Time: 11:50:46

133.0 dBuA



Site

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part 15.209\_3M

Power: AC120V/60Hz

Humidity: 60 %

EUT: Wireless Charger

Distance:

M/N: WX10-G15-30mm

Mode: TX

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Over dB	Antenna Height cm		Table Degree	Comment
								Detector	degree		
1		0.0123	-11.71	31.55	19.84	125.63	-105.79	QP			
2		0.0374	-6.82	32.32	25.50	116.02	-90.52	QP			
3		0.0625	5.84	32.30	38.14	111.59	-73.45	QP			
4		0.0749	-1.48	32.30	30.82	110.02	-79.20	QP			
5	*	0.1069	13.56	32.31	45.87	106.95	-61.08	QP			
6		0.1254	-6.41	32.30	25.89	105.57	-79.68	QP			

Note: When the PEAK level was below the limit of AV level, the AV levels were considered to meet the requirements.



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#### Radiated Emission Measurement

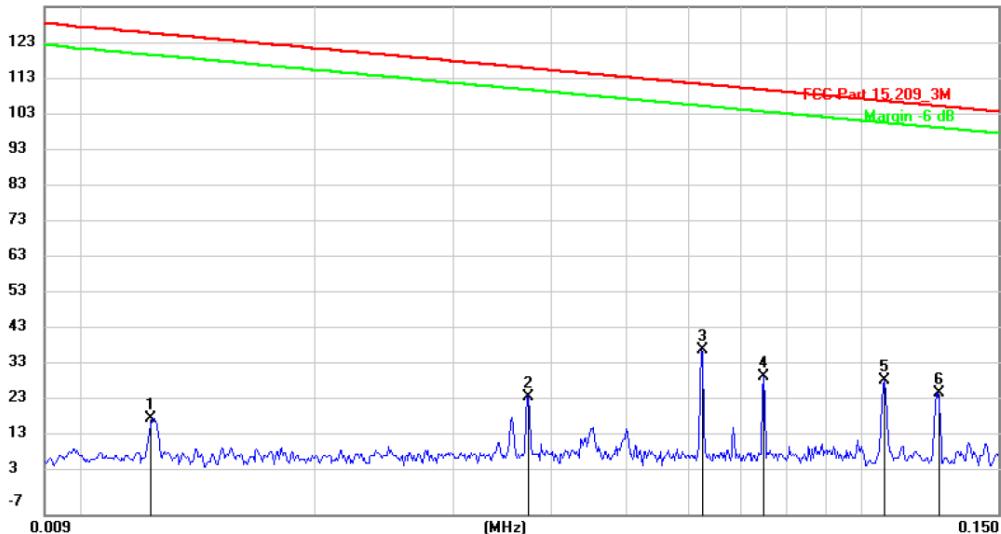
File :WX10-G15-30mm

Data :#15

Date: 2020/3/7

Time: 11:57:57

133.0 dBuA



Site

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part 15.209\_3M

Power: AC120V/60Hz

Humidity: 60 %

EUT: Wireless Charger

Distance:

M/N: WX10-G15-30mm

Mode: TX

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					
		MHz	dBuV	dB	dBuA	dB	Detector	cm	degree	Comment
1		0.0123	-12.03	31.55	19.52	125.63	-106.11	QP		
2		0.0374	-7.06	32.32	25.26	116.02	-90.76	QP		
3 *		0.0625	5.89	32.30	38.19	111.59	-73.40	QP		
4		0.0749	-1.48	32.30	30.82	110.02	-79.20	QP		
5		0.1069	-2.34	32.31	29.97	106.95	-76.98	QP		
6		0.1254	-5.94	32.30	26.36	105.57	-79.21	QP		

Note: When the PEAK level was below the limit of AV level, the AV levels were considered to meet the requirements.



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#### Radiated Emission Measurement

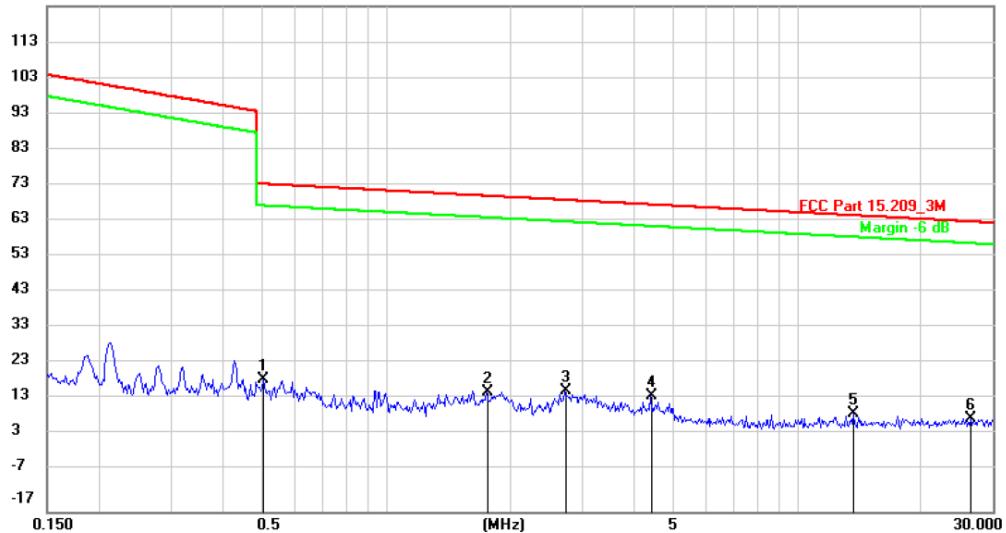
File :WX10-G15-30mm

Data :#16

Date: 2020/3/7

Time: 12:04:26

123.0 dB $\mu$ A



Site

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part 15.209\_3M

Power: AC120V/60Hz

Humidity: 60 %

EUT: Wireless Charger

Distance:

M/N: WX10-G15-30mm

Mode: TX

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dB $\mu$ A	Limit dB $\mu$ A	Over dB Detector	Antenna Height cm		Table Degree	Comment
								Over dB Detector	Antenna Height cm		
1		0.5039	-12.65	32.22	19.57	73.73	-54.16	QP			
2		1.7623	-15.97	32.17	16.20	70.43	-54.23	QP			
3 *		2.7284	-15.85	32.17	16.32	69.28	-52.96	QP			
4		4.3954	-17.35	32.21	14.86	68.03	-53.17	QP			
5		13.7315	-22.18	32.33	10.15	65.03	-54.88	QP			
6		26.4528	-23.62	32.37	8.75	63.30	-54.55	QP			

Note: When the PEAK level was below the limit of AV level, the AV levels were considered to meet the requirements.



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#### Radiated Emission Measurement

File :WX10-G15-30mm

Data :#17

Date: 2020/3/7

Time: 12:11:16

123.0 dBuA



Site

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part 15.209\_3M

Power: AC120V/60Hz

Humidity: 60 %

EUT: Wireless Charger

Distance:

M/N: WX10-G15-30mm

Mode: TX

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Over dB	Antenna Height cm		Table Degree
								Detector	Comment	
1	*	1.3884	-2.41	32.17	29.76	71.06	-41.30	QP		
2		1.7162	-3.68	32.17	28.49	70.50	-42.01	QP		
3		2.6925	-4.83	32.17	27.34	69.32	-41.98	QP		
4		4.6040	-12.35	32.22	19.87	67.90	-48.03	QP		
5		6.1209	-19.59	32.24	12.65	67.15	-54.50	QP		
6		28.6409	-22.45	32.34	9.89	63.09	-53.20	QP		

Note: When the PEAK level was below the limit of AV level, the AV levels were considered to meet the requirements.



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#### Radiated Emission Measurement

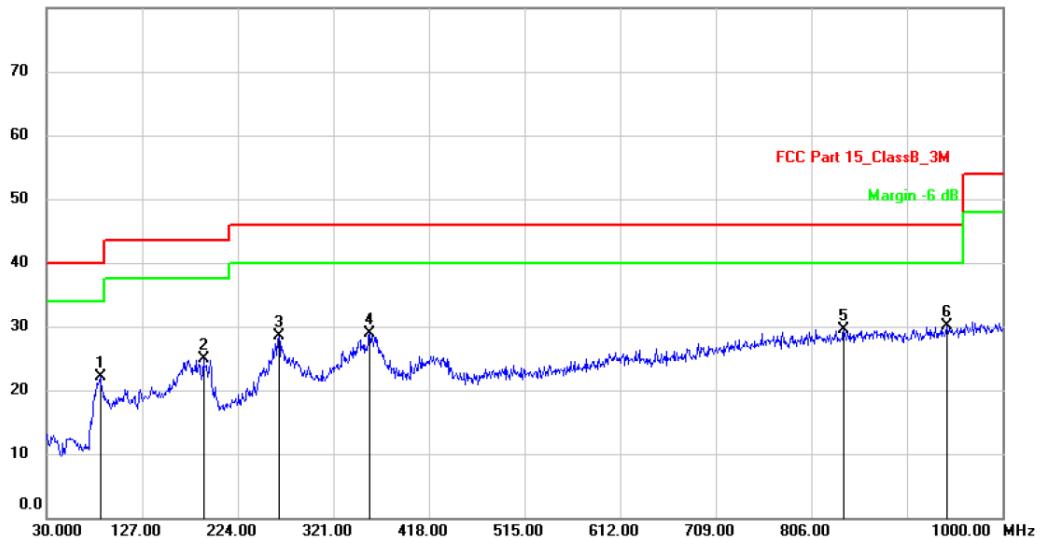
File :WX10-G15-30mm

Data :#18

Date: 2020/3/7

Time: 12:18:25

80.0 dBuV/m



Site

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part 15\_ClassB\_3M

Power: AC120V/60Hz

Humidity: 47 %

EUT: Wireless Charger

Distance: 3m

M/N: WX10-G15-30mm

Mode: TX

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment					Degree	Comment
			MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1		84.3200	37.42	-15.31	22.11	40.00	-17.89	QP			
2		189.0800	38.46	-13.63	24.83	43.50	-18.67	QP			
3		265.7100	39.81	-11.29	28.52	46.00	-17.48	QP			
4		357.8599	38.06	-9.13	28.93	46.00	-17.07	QP			
5		838.9800	30.77	-1.31	29.46	46.00	-16.54	QP			
6	*	943.7400	30.37	-0.34	30.03	46.00	-15.97	QP			



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#### Radiated Emission Measurement

File :WX10-G15-30mm

Data :#19

Date: 2020/3/7

Time: 12:25:58

80.0 dBuV/m



Site	Polarization: <b>Vertical</b>	Temperature: 26
Limit: FCC Part 15_ClassB_3M	Power: AC120V/60Hz	Humidity: 47 %
EUT: Wireless Charger	Distance: 3m	
M/N: WX10-G15-30mm		
Mode: TX		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		41.6400	39.23	-14.69	24.54	40.00	-15.46	QP		
2	*	77.5300	50.41	-19.08	31.33	40.00	-8.67	QP		
3		174.5300	50.77	-17.53	33.24	43.50	-10.26	QP		
4		189.0800	45.20	-16.63	28.57	43.50	-14.93	QP		
5		268.6200	40.40	-13.22	27.18	46.00	-18.82	QP		
6		362.7100	38.66	-11.15	27.51	46.00	-18.49	QP		

## 5. 20dB Bandwidth

### 5.1 Measurement Procedure

Maximum 20dB RF Bandwidth, FCC Rule 15.35:

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

### 5.2 Test SET-UP (Block Diagram of Configuration)



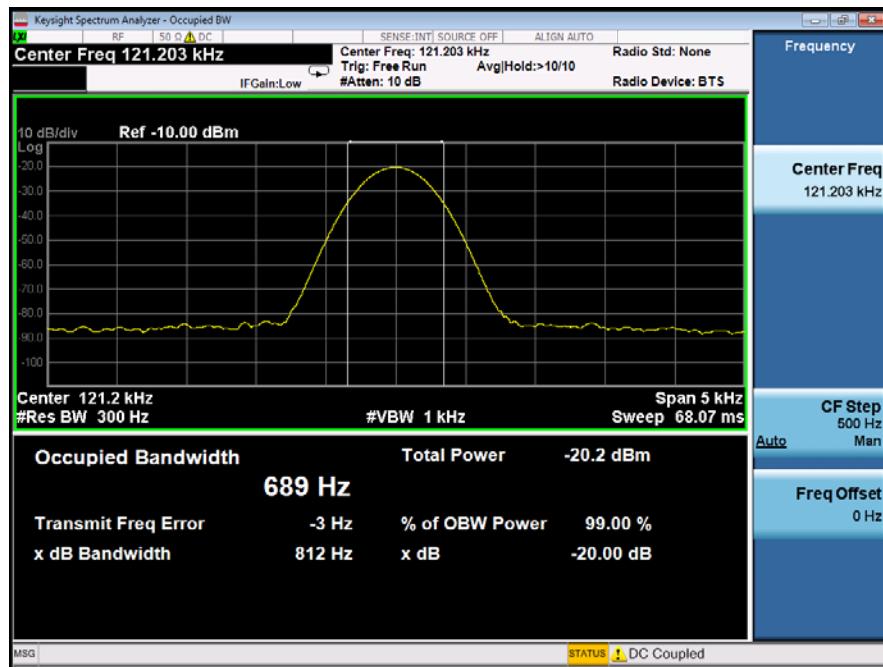
### 5.3 Measurement Results

Refer to attached data chart.

RBW:	300Hz	VBW:	1KHz
Test By:	Sance	Spectrum Detector:	PK
Temperature :	24 °C	Test Date :	March 03, 2020
Test Result:	PASS	Humidity :	50 %

Channel frequency (KHz)	20dB Down BW(Hz)
121.2	812

## Test Channel



## 6. Antenna Application

### 6.1 Antenna requirement

According to of FCC part 15C section 15.203 and 15.240:

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.

### 6.2 Measurement Results

The antenna is coil antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 0dBi, So, the antenna is consider meet the requirement.

## 7. Test Equipment List

Description	Manufacturer	Model Number	Serial Number	Characteristics	Calibration Date	Calibration Due Date
Test Receiver	Rohde & Schwarz	ESCI7	100837	9KHz~7GHz	Mar. 13, 2020	Mar. 13, 2021
Antenna	Schwarzbeck	VULB9162	9162-010	30MHz~7GHz	Mar. 22, 2019	Mar. 22, 2020
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	20Hz~26.5GHz	Mar. 13, 2020	Mar. 13, 2021
Spectrum Analyzer	Keysight	N9020A	MY54200831	20Hz~26.5GHz	Apr. 23, 2019	Apr. 23, 2020
Spectrum Analyzer	Rohde & Schwarz	FSV40	101003	10Hz~40GHz	Apr. 23, 2019	Apr. 23, 2020
Horn Antenna	Schwarzbeck	BBHA9170	9170-372	15GHz~40GHz	Mar. 22, 2019	Mar. 22, 2020
Pre-Amplifier	EMCI	EMC 184045	980102	18GHz~40GHz	Apr. 23, 2019	Apr. 23, 2020
Power Sensor	DARE	RPR3006W	15I00041SN O64	100MHz~6GHz	Mar. 13, 2020	Mar. 13, 2021
Communication Tester	Rohde & Schwarz	CMW500	149004	70MHz~6GHz	Mar. 13, 2020	Mar. 13, 2021
Horn Antenna	COM-Power	AH-118	071078	500MHz~18GHz	Mar. 22, 2019	Mar. 22, 2020
Pre-Amplifier	HP	HP 8449B	3008A00964	1GHz~26.5GHz	Mar. 13, 2020	Mar. 13, 2021
Pre-Amplifier	HP	HP 8447D	1145A00203	100KHz~1.3GHz	Mar. 13, 2020	Mar. 13, 2021
Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	9KHz~30MHz	Apr. 23, 2019	Apr. 23, 2020
Temperature & Humidity Chamber	REMAFEE	SYHR225L	N/A	-40~150°C	Apr. 23, 2019	Apr. 23, 2020
DC Source	MY	MY8811	N/A	0~30V	N/A	N/A
Temporary antenna connector	TESCOM	SS402	N/A	9KHz~25GHz	N/A	N/A
Power Meter	Anritsu	ML2495A	1139001	100k-65GHz	Apr. 23, 2019	Apr. 23, 2020
Power Sensor	Anritsu	MA2411B	100345	300M-40GHz	Apr. 23, 2019	Apr. 23, 2020
Test Software	EZ	EZ_EMCA	N/A	N/A	N/A	N/A
Test Receiver	Rohde & Schwarz	ESCI	101152	9KHz-3GHz	Mar. 14, 2020	Mar. 13, 2021
L.I.S.N	Rohde & Schwarz	ENV 216	101317	9KHz-30MHz	Mar. 14, 2020	Mar. 13, 2021
RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	9KHz-3GHz	Mar. 14, 2020	Mar. 13, 2021

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

---End---