

# FCC TEST REPORT FCC ID: 2AP2N-WA12-WA11

### On Behalf of

# Shenzhen Esorun Technology Co., LTD

# Ultra-thin smart car-mounted wireless charging bracket

## Model No.: WA12, WA11

Prepared for Address	:	Shenzhen Esorun Technology Co., LTD 101, Dormitory Building, No. 1215, Guihua Community Guanguang Road, Guanlan Street, Longhua District, Shenzhen, China
Prepared By	:	Shenzhen Alpha Product Testing Co., Ltd.
Address	:	Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

Report Number	:	A2010091-C01-R01
Date of Receipt	:	November 18, 2020
Date of Test	:	November 19-23, 2020
Date of Report	:	November 24, 2020
Version Number	:	V0

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Applicant	Shenzhen Esorun Technology Co., LTD			
Address	101, Dormitory Building, No. 1215, Guihua Community Guanguang Road, Guanlan Street, Longhua District, Shenzhen, China			
Manufacturer	Shenzhen Esorun Technology Co., LTD			
Address	101, Dormitory Building, No. 1215, Guihua Community Guanguang Road, Guanlan Street, Longhua District, Shenzhen, China			
EUT Description	Ultra-thin smart car-mounted wireless charging bracket	Ultra-thin smart car-mounted wireless charging bracket		
	(A) Model No. : WA12, WA11			
	(B) Trademark : ESORUN			

## TEST REPORT DECLARATION

Measurement Standard Used:

#### FCC CFR Title 47 Part 15 Subpart C Section 15.209

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC CFR Title 47 Part 15 Subpart C Section 15.209 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....:

Lucas Pang **Project Engineer** 

Lucas Poung

Approved by (name + signature).....:

Simple Guan **Project Manager** 

Date of issue.....

November 24, 2020

## **Revision History**

Revision	Issue Date	Revisions	Revised By
V0	November 24, 2020	Initial released Issue	Lucas Pang

## 1. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Spurious Emission	§15.209(a)(f)	PASS
Occupied Bandwidth	§15.215 (c)	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

# 2. General Information

## 2.1. Description of Device (EUT)

EUT Name	:	Ultra-thin smart car-mounted wireless charging bracket
Model No.	:	WA12, WA11
DIFF.	:	There is no difference between the models except the appearance color. So all the test were performed on the model WA12.
Trademark	:	ESORUN
Power supply	:	Type-C Input : DC 5V/2A, DC 9V/2A, DC 12V/2A Wireless Output : DC 5V/1A(5W), 9V/0.83A(7.5W), 9V/1.12A(10W), 9V/1.67A(15W)
Operation frequency	:	125~205KHz
Modulation	:	MSK
Antenna Type	:	Coil Antenna, Maximum Gain is 0dBi(This value is supplied by applicant).
Connector cable loss	:	
Software version	:	V1.0
Hardware version	:	V1.0

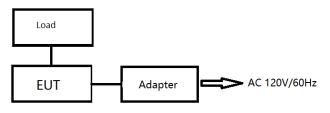
## 2.2. Accessories of Device (EUT)

Accessories1	:	/
Manufacturer	:	/
Model	:	/
Ratings	:	/

## 2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDOC
1	Adapter				
2	Load				

### 2.4. Block Diagram of connection between EUT and simulators



### 2.5. Description of Test Modes

Channel	Frequency (KHz)	
1	147	

### 2.6. Test Conditions

Items	Required	Actual	
Temperature range:	<b>15-35</b> ℃	<b>24</b> ℃	
Humidity range:	25-75%	56%	
Pressure range:	86-106kPa	98kPa	

### 2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission Registration Number: 293961

July 15, 2019 Certificated by IC Registration Number: CN0085

#### 2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Conducted Emission Test	2.74dB	
Uncertainty for Radiation Emission test in 3m chamber	2.13dB	Polarize: V
(below 30MHz)	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber	3.77dB	Polarize: V
(30MHz to 1GHz)	3.80dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber	4.13dB	Polarize: H
(1GHz to 25GHz)	4.16dB	Polarize: V
Uncertainty for radio frequency	5.4×10 <sup>-8</sup>	
Uncertainty for conducted RF Power	0.37dB	

# 2.9. Test Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber			N/A	2019.09.06	3Year
Spectrum analyzer	ROHDE&SCH WARZ	FSV40-N	102137	2020.09.02	1Year
Spectrum analyzer	Agilent	N9020A	MY499100060	2020.09.02	1Year
Receiver	ROHDE&SCH WARZ	ESR	1316.3003K03-1020 82-Wa	2020.09.02	1Year
Receiver	R&S	ESCI	101165	2020.09.02	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2020.04.12	2Year
Horn Antenna	SCHWARZBEC K	BBHA 9120 D	BBHA 9120 D(1201)	2020.04.12	2Year
Active Loop Antenna	SCHWARZBEC K	FMZB 1519B	00059	2019.09.07	2Year
Cable	Resenberger	N/A	No.1	2020.09.02	1Year
Cable	Resenberger	N/A	No.2	2020.09.02	1Year
Cable	Resenberger	N/A	No.3	2020.09.02	1Year
Pre-amplifier	HP	HP8347A	2834A00455	2020.09.02	1Year
Pre-amplifier	Agilent	8449B	3008A02664	2020.09.02	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2020.09.02	1Year
L.I.S.N.#2	ROHDE&SCH WARZ	ENV216	101043	2020.09.02	1 Year
20db Attenuator	ICPROBING	IATS1	82347	2020.09.02	1 Year
Horn Antenna	SCHWARZBEC K	BBHA9170	00946	2019.09.07	2 Year
Preamplifier	SKET	LNPA_1840-50	SK2018101801	2020.09.02	1 Year
Power Meter	Agilent	E9300A	MY41496625	2020.09.02	1 Year
Temp. & Humid. Chamber	Weihuang	WHTH-1000-40- 880	100631	2020.09.02	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	20140927-6	2020.09.02	1 Year

Software Information									
Test Item	Software Name	Manufacturer	Version						
RE	EZ-EMC	EZ	Alpha-3A1						
CE	EZ-EMC	EZ	Alpha-3A1						
RF-CE	MTS 8310	MW	V2.0.0.0						

# 3. Test Results and Measurement Data

## 3.1. Conducted Emission

### 3.1.1. Test Specification

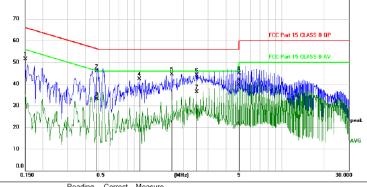
Test Requirement:	FCC Part15 C Section	15.207			
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto		
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (c Quasi-peak 66 to 56* 56 60	BuV) Average 56 to 46* 46 50		
Test Setup:	Reference Plane				
Test Mode:	Transmitting Mode				
Test Procedure:	<ol> <li>Thansmitting mode</li> <li>The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>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 changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>				
Test Result:	PASS				

#### 3.1.2. Test data

### Please refer to following diagram for individual

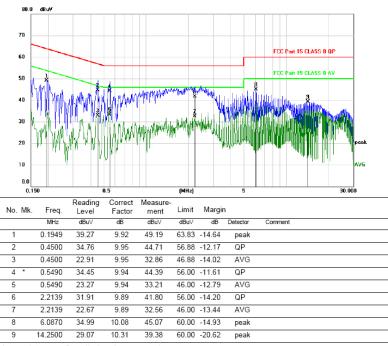
Test Mode : Full Load(15W)									
Test Re	Test Results : PASS								
Note:	Note: The test results are listed in next pages.								
	All test modes has been tested, this report only reflected the worst mode. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

EUT Description	Ultra-thin smart car-mounted wireless charging bracket	Model No.	WA12
Temperature	<b>24</b> °C	Humidity	56%
Pol	Line	Test mode	Full Load(15W)
Test Voltage	AC 120V/60Hz		
	80.0 dB uY		



No. Mk.	Freq.	Level	Factor	ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
1	0.1500	41.61	9.94	51.55	66.00	-14.45	peak	
2	0.4860	36.00	9.96	45.96	56.24	-10.28	QP	
3	0.4860	23.18	9.96	33.14	46.24	-13.10	AVG	
4	0.9720	32.35	9.93	42.28	56.00	-13.72	peak	
5	1.6590	34.61	9.89	44.50	56.00	-11.50	peak	
6	2.4900	34.21	9.91	44.12	56.00	-11.88	QP	
7	2.4900	26.42	9.91	36.33	46.00	-9.67	AVG	
8	4.9800	34.79	10.04	44.83	56.00	-11.17	QP	
9 *	4.9800	29.71	10.04	39.75	46.00	-6.25	AVG	

Pol



\*:Maximum data x:Over limit !:over margin

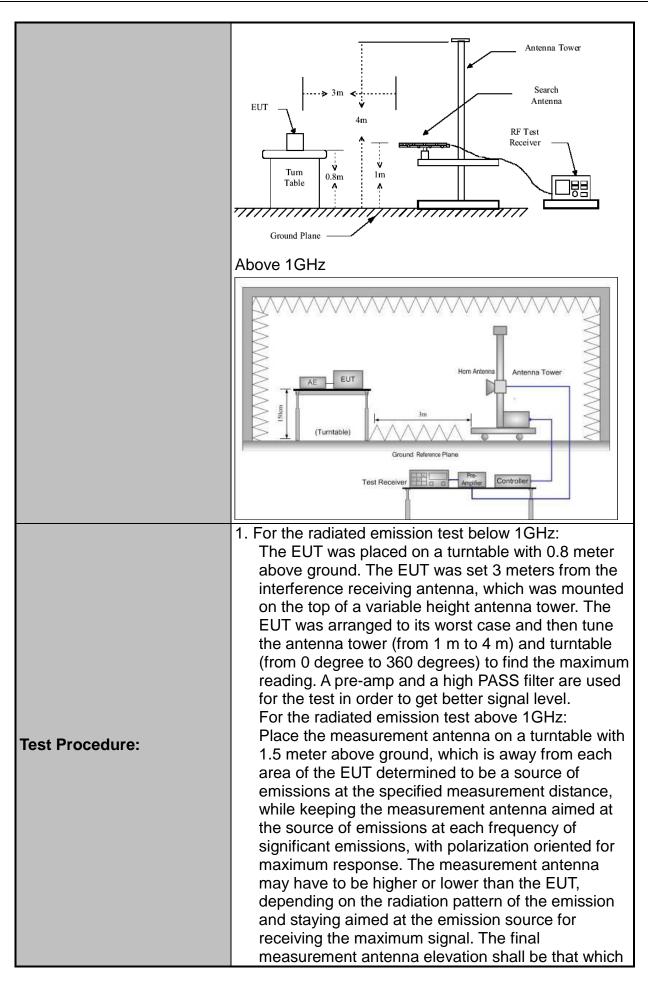
Neutral

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

## 3.2. Radiated Spurious Emission Measurement

### 3.2.1. Test Specification

Receiver Setup: 30MHz 30MHz-1GHz 4 4 4 4 4 4 4 4 4 4 4 4 4		k 9kHz	VBW 1kHz 30kHz 300KHz 3MHz	Quas Quas	Remark si-peak Value si-peak Value		
Measurement Distance:       3 m         Antenna Polarization:       Horizontal & Vert         Operation mode:       Refer to item 4.1         Frequency       De         9kHz-150kHz       Qua         150kHz-       Qua         30MHz-1GHz       Qua         Above 1GHz       F	tical etector isi-peal isi-peal Peak	k 200Hz k 9kHz k 100KHz 1MHz	1kHz 30kHz 300KHz	Quas Quas	si-peak Value si-peak Value		
Measurement Distance:       3 m         Antenna Polarization:       Horizontal & Vert         Operation mode:       Refer to item 4.1         Frequency       De         9kHz-150kHz       Qua         150kHz-       Qua         30MHz-1GHz       Qua         Above 1GHz       F	tical etector isi-peal isi-peal Peak	k 200Hz k 9kHz k 100KHz 1MHz	1kHz 30kHz 300KHz	Quas Quas	si-peak Value si-peak Value		
Antenna Polarization:       Horizontal & Vert         Operation mode:       Refer to item 4.1         Frequency       De         9kHz-       150kHz       Qua         150kHz-       Qua       30MHz-1         30MHz-1GHz       Qua         Above       1GHz       Frequency	etector asi-peal asi-peal asi-peal Peak	k 200Hz k 9kHz k 100KHz 1MHz	1kHz 30kHz 300KHz	Quas Quas	si-peak Value si-peak Value		
Operation mode:       Refer to item 4.1         Frequency       De         9kHz- 150kHz       Qua         150kHz-       Qua         30MHz       30MHz         30MHz-1GHz       Qua         Above 1GHz       F	etector asi-peal asi-peal asi-peal Peak	k 200Hz k 9kHz k 100KHz 1MHz	1kHz 30kHz 300KHz	Quas Quas	si-peak Value si-peak Value		
Frequency     De       9kHz-     150kHz     Qua       150kHz-     Qua       30MHz-     30MHz       30MHz-1GHz     Qua	asi-peal asi-peal asi-peal Peak	k 200Hz k 9kHz k 100KHz 1MHz	1kHz 30kHz 300KHz	Quas Quas	si-peak Value si-peak Value		
Receiver Setup: 30MHz-150kHz-Qua 30MHz-1GHz Qua 30MHz-1GHz Qua Above 1GHz	asi-peal asi-peal asi-peal Peak	k 200Hz k 9kHz k 100KHz 1MHz	1kHz 30kHz 300KHz	Quas Quas	si-peak Value si-peak Value		
Receiver Setup: 30MHz 30MHz-1GHz Above 1GHz	isi-peal isi-peal Peak	k 9kHz k 100KHz 1MHz	30kHz 300KHz	Quas	si-peak Value		
Receiver Setup:     30MHz       30MHz-1GHz     Qua       Above 1GHz     F	isi-peal <sup>2</sup> eak	k 100KHz 1MHz	300KHz				
30MHz-1GHz Qua	Peak	1MHz		Quas			
Above 1(jHz			3MHz		si-peak Value		
	Peak	1MHz	4.01.1		eak Value		
			10Hz	Ave	erage Value		
Frequency	1	Field Stre	ength		asurement		
		(microvolts/	,	Distance (meters)			
0.009-0.490 0.490-1.705		2400/F(k 24000/F(l		300 30			
1.705-30		24000/F(I 30		30			
30-88		100		3			
88-216		150		3			
Limit: 216-960		200			3		
Above 960		500 3					
			Measurer	ment			
Frequency	Field Strength (microvolts/meter)		Distan		Detector		
	(micro		(meter	s)			
Above 1GHz		500	3		Average		
		5000	3		Peak		
For radiated emis	ssion	s below 30	MHz				
Distance	= 3m			Г			
	.1			Ľ	Computer		
		$\bigcap$	Г	Pre -Am	nlifior		
	'			rie -Ain			
Test setup:		$\prod$					
	Turn table						
0.8m	0.8m						
	Receiver						
	Gro	ound Plane					
30MHz to 1GHz							

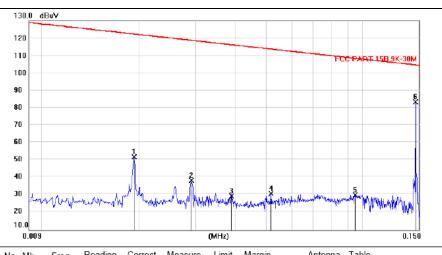


	<ul> <li>maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</li> <li>2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</li> <li>3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</li> <li>4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured;</li> </ul>
	<ul> <li>(2) Set RBW=100 kHz for f &lt; 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold;</li> <li>(3) Set RBW = 1 MHz, VBW= 3MHz for f □ 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
Test mode:	Refer to section 4.1 for details
Test results:	PASS

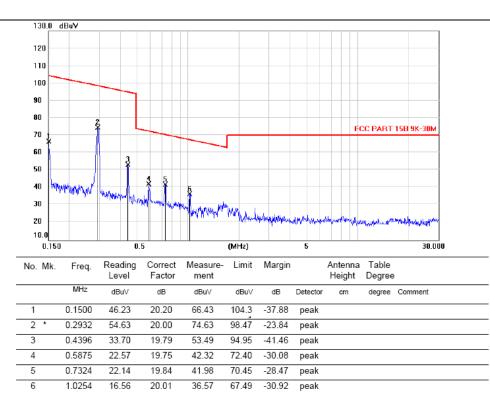
#### 3.2.2. Test Data

Please refer to following diagram for individual

Freque Range	•	:	9KHz~30MHz					
Test Mode :			TX: 147KHz, Full Load (15W)					
Test R	esults	:	PASS					
Note:	Note: 1. The test results are listed in next pages.							
	2. This mode is worst case mode, so this report only reflected the worst mode.							
	3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.							



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector	cm	degree	Comment
1		0.0192	30.56	21.27	51.83	122.2	-70.38	peak			
2		0.0291	17.19	21.02	38.21	118.5	-80.38	peak			
3		0.0388	8.95	20.51	29.46	116.0	-86.62	peak			
4		0.0516	10.97	19.92	30.89	113.6	-82.71	peak			
5		0.0947	10.17	19.85	30.02	108.3	-78.29	peak			
6	*	0.1466	63.11	20.15	83.26	104.5	-21.25	peak			



\*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Freque Range	•	:	30MHz~1000MHz					
Test M	ode	:	Full Load(15W)\					
Test R	esults	:	PASS					
Note:	1. The te	est re	sults are listed in next pages.					
	2. All test modes has been tested, this report only reflected the worst mode.							
3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.								

Freque Range	ncy	:	Above 1GHz				
EUT		:	/	Test Date	:		/
M/N		:	/	Temperature	:		/
Test Er	ngineer	:	/	Humidity	:		/
Test Mo	ode	:	/				
Test Re	esults	:	N/A				
<ol> <li>The highest frequency of the internal sources of the EUT is less than 108 MHz,</li> <li>Note: the measurement shall only be made up to 1 GHz. So the frequency rang above 1GHz radiation test not applicable.</li> </ol>							

							1GH	-				-	
EUT Description		Ultra-thin smart car-mounted wireless charging bracket							M	Model No.		٧	VA12
Temperature	24	24°C								umid	ity	5	6%
Pol	Ve	Vertical							Те	Test mode		F	Full Load(15W)
Test Voltage		AC 120V/60Hz											
	70 60 50	∂ dBuV/m						FC	C Part15	Class B F	Radiation		
	30 20 10 0.0	1.000 10	50 60	3 Mul M 70 80	nonsrow	(MHz)	the second	300	100	500 600	1 700 1		
	No. M		Reading Level	Correct Factor	Measure- ment		Margin		Height	-	е		
		MHz	dBuV	dB	dBuV/m	dBu∀/m	dB	Detector	cm	degree	Commer	nt	
	1 *	30.1582 49.3247	20.48 18.49	13.53 14.03	34.01 32.52	40.00	-5.99 -7.48	QP QP					
	2	49.3247 95.0262	22.15	14.03	32.52		-7.48	peak					
	4	150.4850			02.07	.0.00							
		150.4650	21.67	15.06	36.73	43.50		-					
	5	421.1707	21.67 21.42	15.06 16.77	36.73 38.19	43.50 46.00	-6.77 -7.81	peak peak					
							-6.77	peak					
Pol	5 6	421.1707 912.8620	21.42 12.20	16.77	38.19	46.00	-6.77 -7.81	peak peak					
Pol	5 6 Hc	421.1707	21.42 12.20	16.77	38.19	46.00	-6.77 -7.81	peak peak peak	CC Part15	Class B I	Radiation		
Pol	5 6 Hc 80.0	421.1707 912.8620	21.42 12.20	16.77	38.19	46.00	-6.77 -7.81	peak peak peak	C Part15	Class B I	Radiation		
Pol	5 6 80.1 70 60	421.1707 912.8620	21.42 12.20	16.77	38.19	46.00	-6.77 -7.81 -9.59	peak peak peak			Radiation		
Pol	5 6 Hc 80.1 70 50	421.1707 912.8620	21.42 12.20	16.77	38.19 36.41	46.00	-6.77 -7.81 -9.59	peak peak peak	CC Parti 5		Radiation		
Pol	5 6 80.1 70 60 50 10 30 20 10 0.0	421.1707 912.8620 Drizonta 0 dBuV/m	21.42 12.20	16.77 24.21	38.19 36.41	46.00	-6.77 -7.81 -9.59	peak peak peak	1. Martin		hand the second se		
Pol	5 6 80.1 70 60 50 10 30 20 10 0.0	421.1707 912.8620 Drizonta 0 dBuV/m	21.42 12.20	16.77	38.19 36.41	46.00	-6.77 -7.81 -9.59	peak peak peak	1. Martin		hand the second se		
Pol	5 6 80.1 70 60 50 10 30 20 10 0.0	421.1707 912.8620 0 dBuV/m	21.42 12.20	16.77 24.21	38.19 36.41	46.00 46.00	-6.77 -7.81 -9.59	peak peak peak	100 Antenna Height	500 600 a Table	, , , , , , , , , , , , , , , , , , ,	000.000	
Pol	5 6 80.1 70 60 50 40 30 20 10 0.0 30 No. M	421.1707 912.8620 Drizonta 0 dBuV/m	21.42 12.20	16.77 24.21	38.19 36.41	46.00 46.00	-6.77 -7.81 -9.59	peak peak peak	100	500 600 a Table	بر بروی میرون از ۲۰۵۰ ا	000.000	
Pol	5 6 80.1 70 60 50 40 30 20 10 0.0 30 10 0.0 10 10 10 10 10	421.1707 912.8620 Drizonta 0 dBuV/m 	21.42 12.20	16.77 24.21	38.19 36.41	46.00 46.00	-6.77 -7.81 -9.59	peak peak peak	100 Antenna Height	500 600 a Table	, , , , , , , , , , , , , , , , , , ,	000.000	
Pol	5 6 80.1 70 60 50 40 30 20 10 0.0 30 10 0.0 10 12 No. M	421.1707 912.8620 0 dBuV/m 0 dBuV/m 1 0 dBuV	21.42 12.20	16.77 24.21 24.21 70 80 70 80 Correct Factor dB 13.57 12.51	38.19 36.41	46.00 46.00	-6.77 -7.81 -9.59 -0.59	peak peak peak	100 Antenna Height	500 600 a Table	, , , , , , , , , , , , , , , , , , ,	000.000	
Pol	5 6 80.1 70 60 50 40 30 20 10 0.0 30 10 0.0 10 10 10 10 10	421.1707 912.8620 Drizonta 0 dBuV/m 	21.42 12.20	16.77 24.21	38.19 36.41	46.00 46.00	-6.77 -7.81 -9.59	peak peak peak	100 Antenna Height	500 600 a Table	, , , , , , , , , , , , , , , , , , ,	000.000	
Pol	5 6 80.1 70 60 50 40 30 20 10 0.0 30 10 0.0 10 1 2 2 3	421.1707 912.8620 prizonta 0 dBuV/m 4BuV/m	21.42 12.20	16.77 24.21 24.21 70 80 70 80 Correct Factor dB 13.57 12.51 10.52	38.19 36.41 Measure- ment dBu//m 26.63 25.11 28.29	46.00 46.00 (MHz) (MHz) Limit 40.00 40.00 43.50	-6.77 -7.81 -9.59 -0.59	peak peak peak	100 Antenna Height	500 600 a Table	, , , , , , , , , , , , , , , , , , ,	000.000	

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

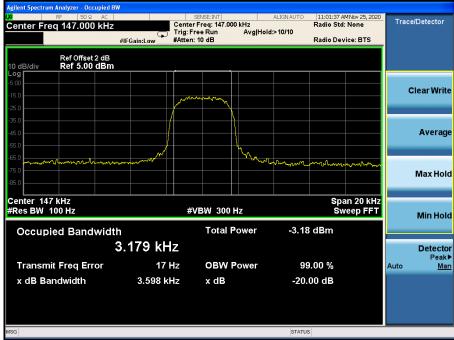
# 3.3. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	N/A
Test Procedure:	<ol> <li>According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW ≥ 1% of the 20 dB bandwidth; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>Measure and record the results in the test report.</li> </ol>
Test setup:	Spectrum Analyzer EUT
Test Mode:	Refer to section 4.1 for details
Test results:	PASS

#### 3.3.1. Test data

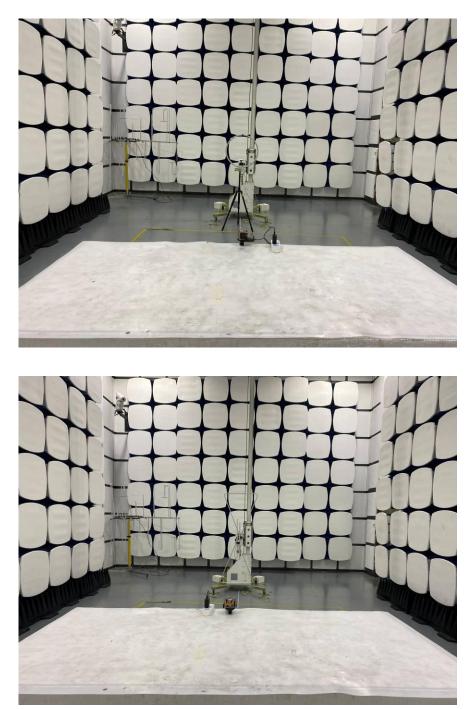
Frequency(kHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
147	3.598		PASS

Test plots as follows:



# 4. Photos of test setup

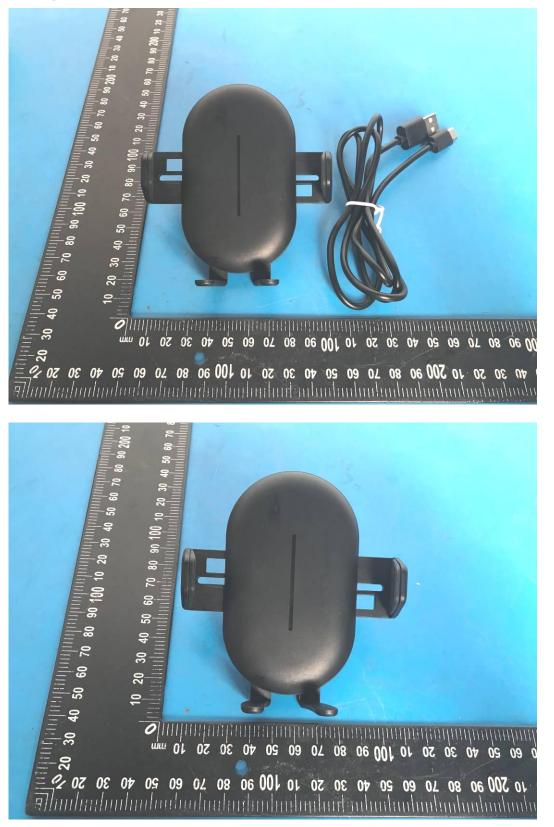
Radiated Emission

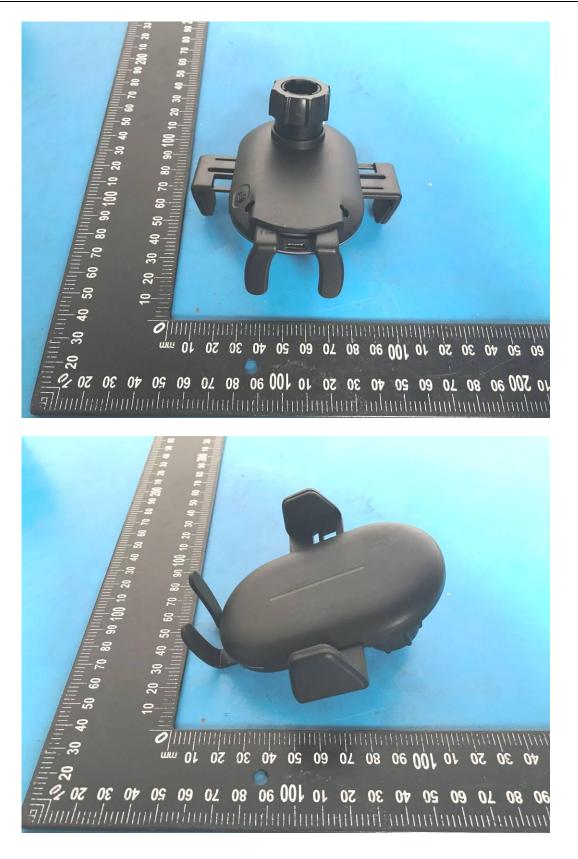


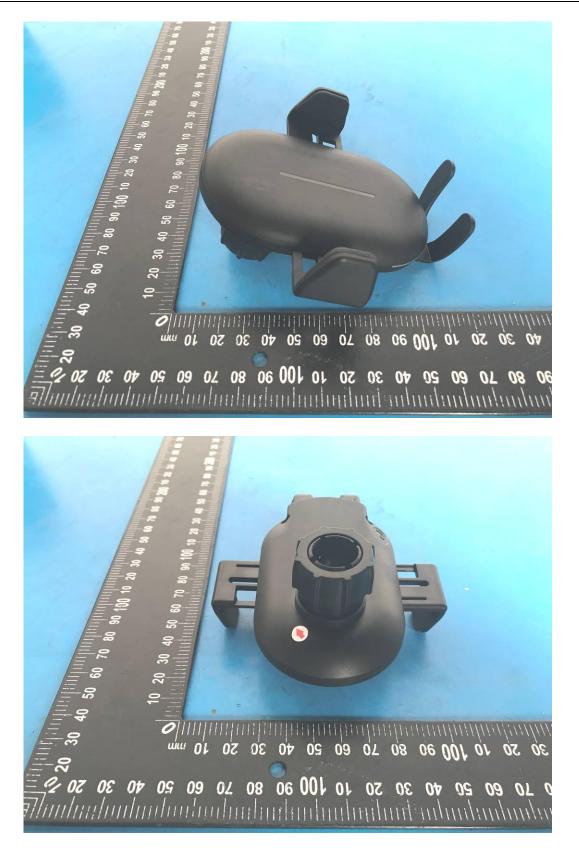
#### Conducted Emission



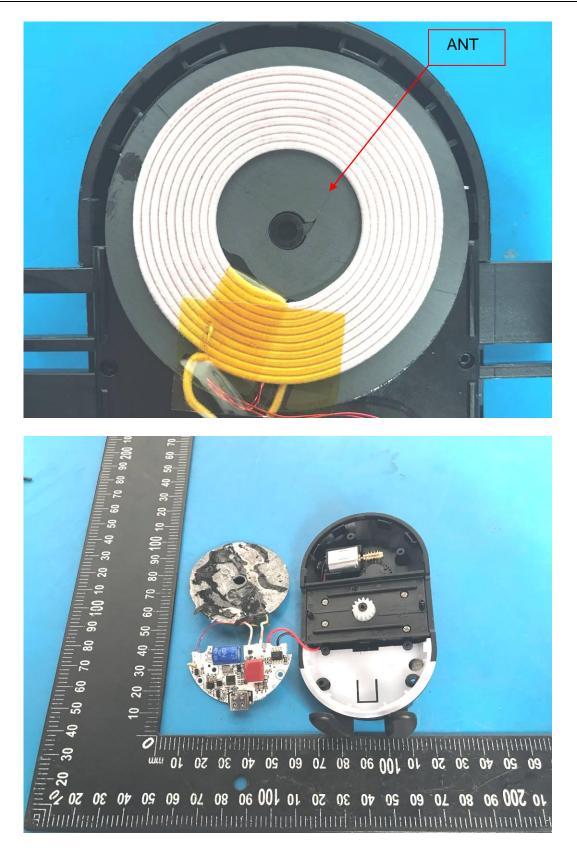
## 5. Photographs of EUT

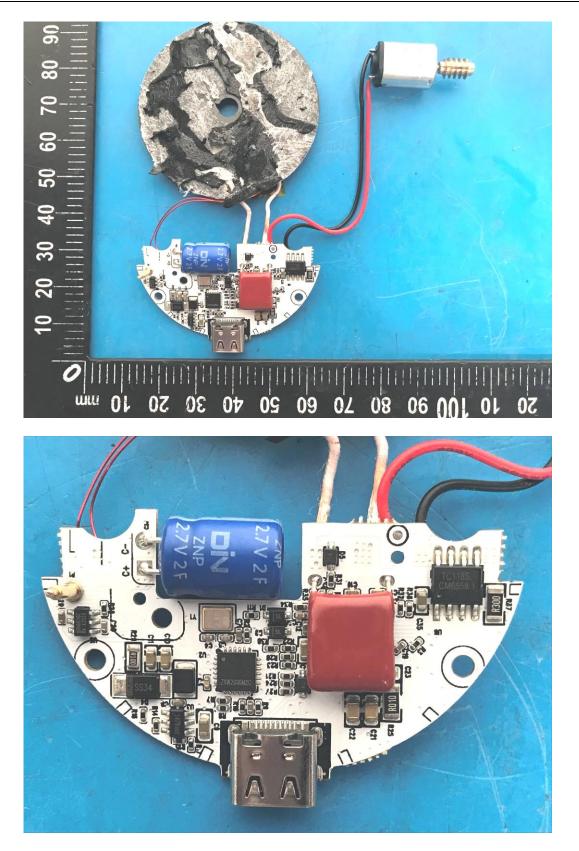


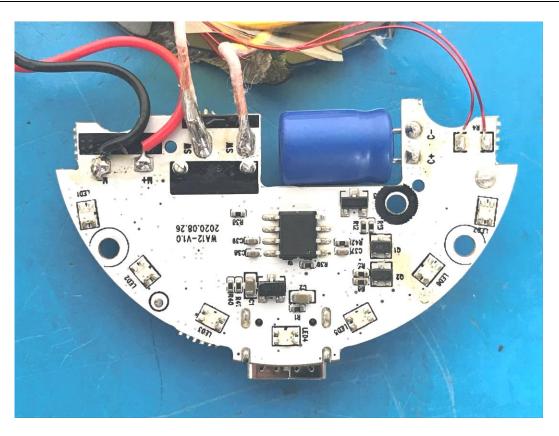












-----End------