



FCC TEST REPORT

FCC ID: 2ADDW-WPA01

On Behalf of

Shenzhen Topband Co., Ltd
Wireless Charger
Model No.: WPA01

Prepared for : Shenzhen Topband Co., Ltd
Address : Topband Industrial Park, Liyuan Industrial Zone, Shiyan
: Town, Bao'An District, Shenzhen 518108, 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 : A2003041-C01-R01
Date of Receipt : March 09, 2020
Date of Test : March 09, 2020–March 13, 2020
Date of Report : March 13, 2020
Version Number : V0

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TEST REPORT DECLARATION

Applicant : Shenzhen Topband Co., Ltd
Address : Topband Industrial Park,Liyuan Industrial Zone,Shiyan
Manufacturer : Shenzhen Topband Co., Ltd
Address : Topband Industrial Park,Liyuan Industrial Zone,Shiyan
EUT Description : Wireless Charger
(A) Model No. : WPA01
(B) Trademark : Topband

Measurement Standard Used:

FCC CFR Title 47 Part 15 Subpart C Section 15.209

ANSI C63.10:2013

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).....: Ella Liang
Project Engineer


.....

Approved by (name + signature).....: Simple Guan
Project Manager


.....

Date of issue.....: March 13, 2020

Revision History

Revision	Issue Date	Revisions	Revised By
V0	March 13, 2020	Initial released Issue	Simple Guan

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

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 : Wireless Charger

Model No. : WPA01

DIFF. : N/A

Trademark : Topband

Power supply : Input : DC 5V/2A, DC 9V/2A max
Output : DC 5W, 7.5W, 10W max

Operation frequency : 125-205KHz

Modulation : MSK

Antenna Type : Coil Antenna

Software version : V1.0

Hardware version : V1.0

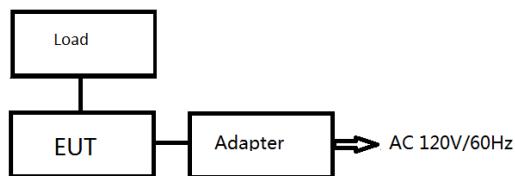
2.2. Accessories of Device (EUT)

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

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
1	Wireless Load	--	--	--	--
2	Adapter	--	--	--	--

2.4. Block Diagram of connection between EUT and simulators



2.5. Description of Test Modes

Channel	Frequency (KHz)						
1	125	6	150	11	175	16	200
2	130	7	155	12	180	17	205
3	135	8	160	13	185	18	
4	140	9	165	14	190	19	
5	145	10	170	15	195	20	

Note: Pre-San all output power modes, and only worst data listed in report (DC 9V/2A).

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	24°C
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 (below 30MHz)	2.13 dB	Polarize: V
	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB	Polarize: V
	3.80dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.16dB	Polarize: H
	4.13dB	Polarize: V
Uncertainty for radio frequency	5.4×10^{-8}	
Uncertainty for conducted RF Power	0.37dB	

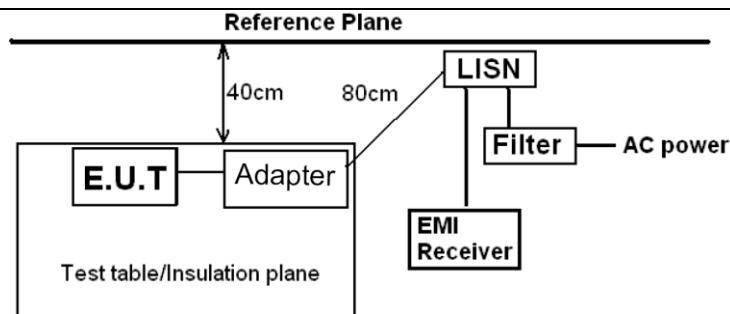
2.9. Test Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2019.09.06	1Year
Spectrum analyzer	ROHDE&SCHW ARZ	FSU	1166.1660.26	2019.09.06	1Year
Spectrum analyzer	Agilent	N9020A	MY499100060	2019.09.05	1Year
Receiver	ROHDE&SCHW ARZ	ESR	1316.3003K03-10208 2-Wa	2019.09.06	1Year
Receiver	R&S	ESCI	101165	2019.09.05	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2018.04.13	2Year
Loop Antenna	SCHWARZBEC K	FMZB 1519B	00059	2019.09.07	2Year
Cable	Resenberger	N/A	No.1	2019.09.05	1Year
Cable	SCHWARZBEC K	N/A	No.2	2019.09.05	1Year
Cable	SCHWARZBEC K	N/A	No.3	2019.09.05	1Year
Pre-amplifier	HP	HP8347A	2834A00455	2019.09.05	1Year
Pre-amplifier	Agilent	8449B	3008A02664	2019.09.05	1Year
Temperature controller	Terchy	MHQ	120	2019.09.20	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126-466	2019.09.05	1Year
L.I.S.N.#2	ROHDE&SCHW ARZ	ENV216	101043	2019.09.05	1 Year
20db Attenuator	ICPROBING	IATS1	82347	2019.09.20	1 Year

3. Test Results and Measurement Data

3.1. Conducted Emission

3.1.1. Test Specification

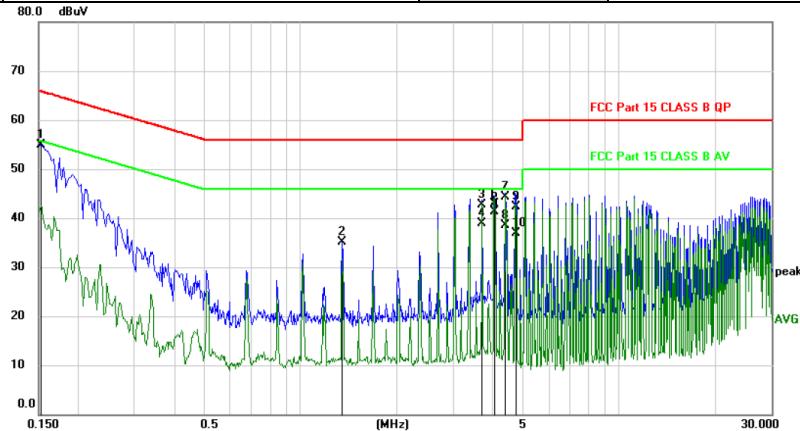
Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.10:2013																
Frequency Range:	150 kHz to 30 MHz																
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto																
Limits:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															
Test Setup:	 <p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																
Test Procedure:	<ol style="list-style-type: none"> 1. 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. 2. 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). 3. 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. 																
Test Result:	PASS																

3.1.2. Test data

Please refer to following diagram for individual

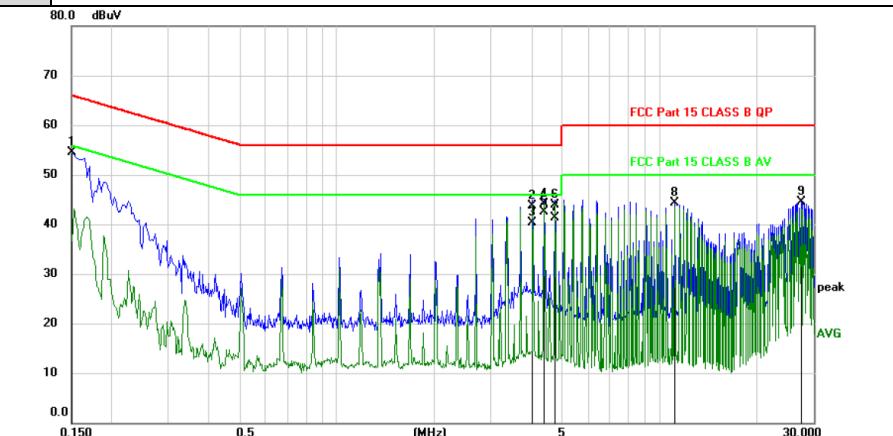
Test Mode	: Full Load, Half Load, Empty Load
Test Results	: PASS
Note: The test results are listed in next pages.	
This mode is worst case mode, so this report only reflected the worst mode.	
If the limits for the measurement with the average detector are met when using a receiver with a peak detector, 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 need not be carried out.	

EUT Description	Wireless Charger	Model No.	WPA01
Temperature	24°C	Humidity	56%
Pol	Line	Test date	2020/3/10
Test Voltage	AC 120V/60Hz	Test mode	Full Load



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
1		0.1530	45.05	9.94	54.99	65.84	-10.85	peak
2		1.3500	25.22	9.89	35.11	56.00	-20.89	peak
3		3.7080	32.82	9.97	42.79	56.00	-13.21	QP
4		3.7080	29.03	9.97	39.00	46.00	-7.00	AVG
5		4.0680	31.35	9.97	41.32	56.00	-14.68	QP
6	*	4.0680	32.85	9.97	42.82	46.00	-3.18	AVG
7		4.3830	34.27	10.00	44.27	56.00	-11.73	QP
8		4.3830	28.55	10.00	38.55	46.00	-7.45	AVG
9		4.7460	32.36	10.02	42.38	56.00	-13.62	QP
10		4.7460	26.86	10.02	36.88	46.00	-9.12	AVG

Pol	Neutral
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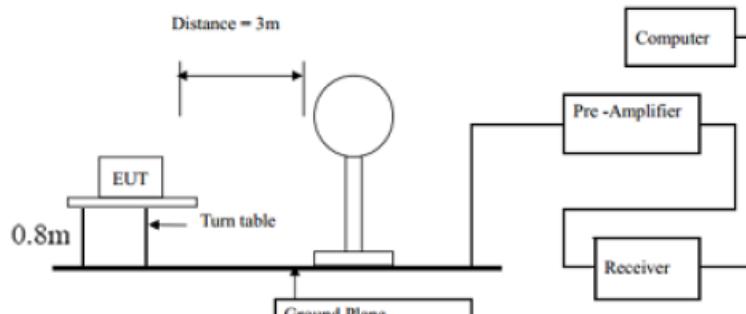
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
1		0.1500	44.52	9.94	54.46	66.00	-11.54	peak
2		4.0440	33.65	9.97	43.62	56.00	-12.38	QP
3		4.0440	30.43	9.97	40.40	46.00	-5.60	AVG
4		4.4040	34.11	10.00	44.11	56.00	-11.89	QP
5	*	4.4040	32.51	10.00	42.51	46.00	-3.49	AVG
6		4.7430	33.81	10.02	43.83	56.00	-12.17	QP
7		4.7430	31.32	10.02	41.34	46.00	-4.66	AVG
8		11.1810	34.03	10.24	44.27	60.00	-15.73	peak
9		27.4410	33.95	10.55	44.50	60.00	-15.50	peak

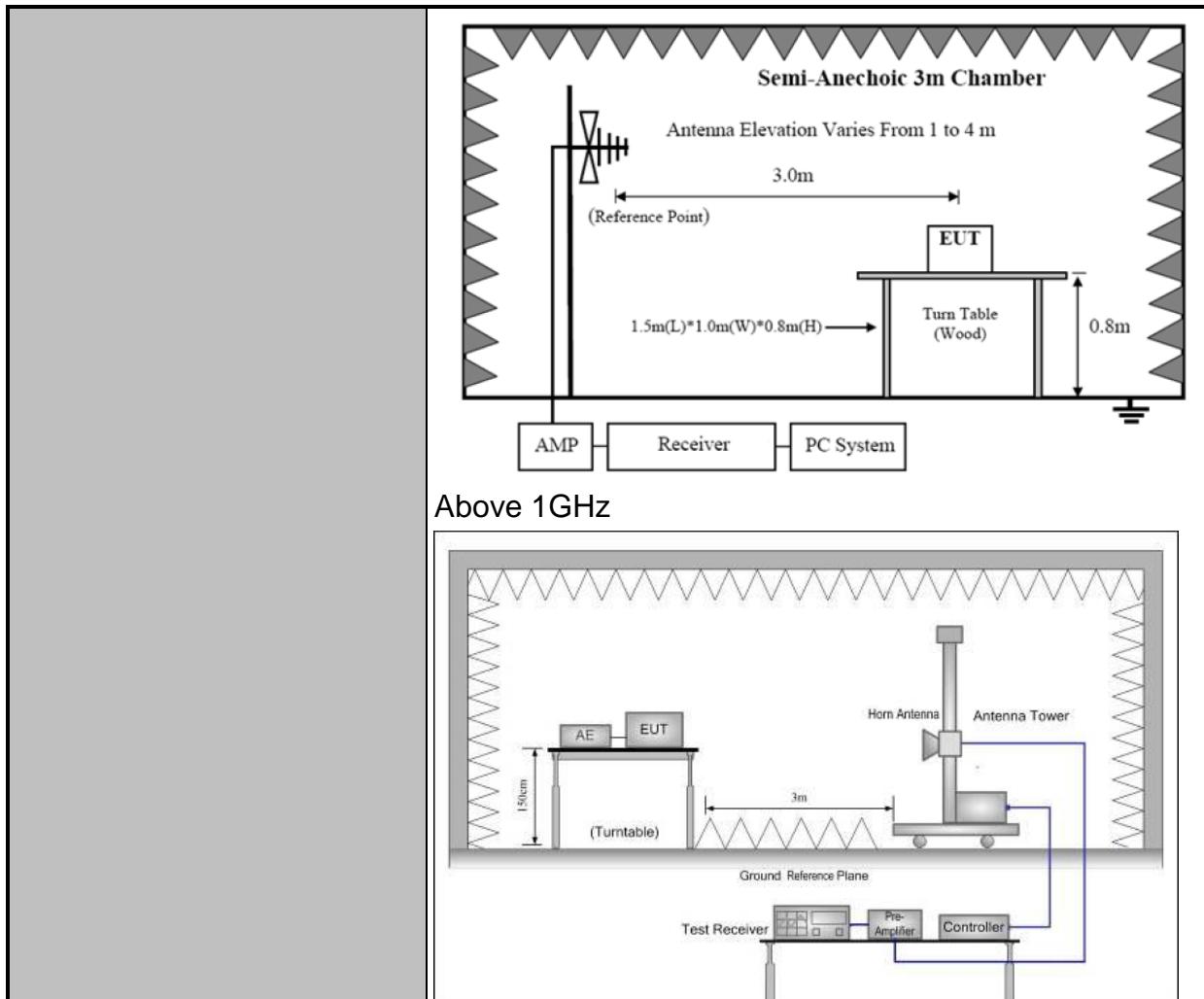
*:Maximum data x:Over limit !:over margin

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

3.2. Radiated Spurious Emission Measurement

3.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209																																															
Test Method:	ANSI C63.10: 2013																																															
Frequency Range:	9 kHz to 25 GHz																																															
Measurement Distance:	3 m																																															
Antenna Polarization:	Horizontal & Vertical																																															
Receiver Setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>9kHz- 150kHz</td> <td>Quasi-peak</td> <td>200Hz</td> <td>1kHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td>150kHz- 30MHz</td> <td>Quasi-peak</td> <td>9kHz</td> <td>30kHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>100KHz</td> <td>300KHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td><td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td>Peak</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>					Frequency	Detector	RBW	VBW	Remark	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value														
Frequency	Detector	RBW	VBW	Remark																																												
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Above 1GHz	Peak	1MHz	3MHz	Peak Value																																												
	Peak	1MHz	10Hz	Average Value																																												
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Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)																																														
0.009-0.490	2400/F(KHz)	300																																														
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1.705-30	30	30																																														
30-88	100	3																																														
88-216	150	3																																														
216-960	200	3																																														
Above 960	500	3																																														
Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector																																													
Above 1GHz	500	3	Average																																													
	5000	3	Peak																																													
Test setup:	<p>For radiated emissions below 30MHz</p>  <p>30MHz to 1GHz</p>																																															



Test Procedure:

1. For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is 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

	<p>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.</p> <p>2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>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.</p> <p>4. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none">(1) Span shall wide enough to fully capture the emission being measured;(2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;(3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, 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.</p>
Test results:	PASS

3.2.2. Test Data

Please refer to following diagram for individual

Frequency Range	: 9KHz~30MHz
Test Mode	: TX: channel low, channel mid, channel high (Full Load)
Test Results	: PASS
<p>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.</p>	

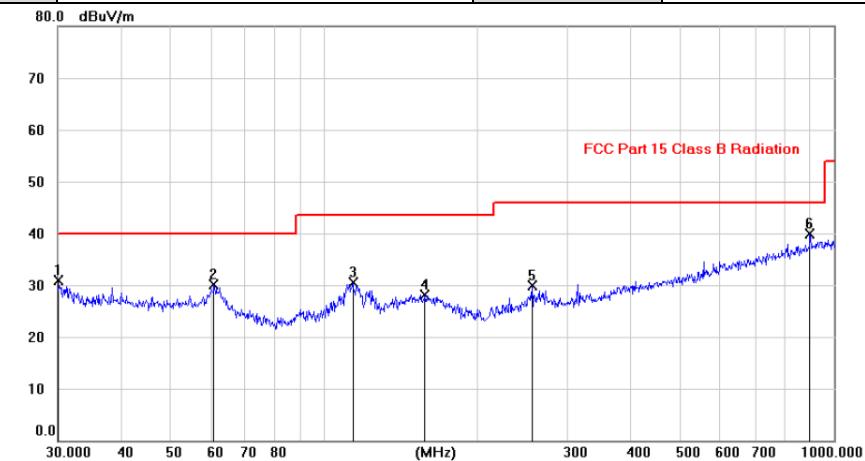
Freq. (MHz)	Reading (dBuV/m)	Antenna Factor	Cable loss	Amp Factor	Result (dBuV/m)	Limit (dBuV/m) at 3 m	Margin (dB)	Detect or	State
									P/F
0.125	71.44	48.34	0.16	29.87	90.07	125.67	-35.59	PK	PASS
0.125	59.16	48.34	0.16	29.87	77.79	105.67	-27.87	AV	PASS
0.175	69.57	48.34	0.16	29.87	88.20	122.74	-34.54	PK	PASS
0.175	61.65	48.34	0.16	29.87	80.28	102.74	-22.47	AV	PASS
0.205	69.06	48.38	0.17	29.89	87.72	121.37	-33.65	PK	PASS
0.205	62.08	48.38	0.17	29.89	80.74	101.37	-20.62	AV	PASS
0.35	60.98	48.44	0.19	29.89	79.72	116.72	-37.01	PK	PASS
0.35	54.24	48.44	0.19	29.89	72.98	96.72	-23.74	AV	PASS
0.45	58.89	48.47	0.19	29.89	77.66	114.54	-36.88	PK	PASS
0.45	51.37	48.47	0.19	29.89	70.14	94.54	-24.40	AV	PASS
1.928	27.77	49.12	0.2	29.94	47.15	60	-12.85	QP	PASS
1.920	31.70	49.12	0.2	29.94	51.08	60	-8.92	QP	PASS

Frequency Range	: 30MHz~1000MHz
Test Mode	: Full Load, Half Load, Empty Load
Test Results	: PASS
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.	

Frequency Range	: Above 1GHz	
EUT	: /	Test Date : /
M/N	: /	Temperature : /
Test Engineer	: /	Humidity : /
Test Mode	: /	
Test Results	: N/A	
Note: 1. The highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. So the frequency rang above 1GHz radiation test not applicable.		

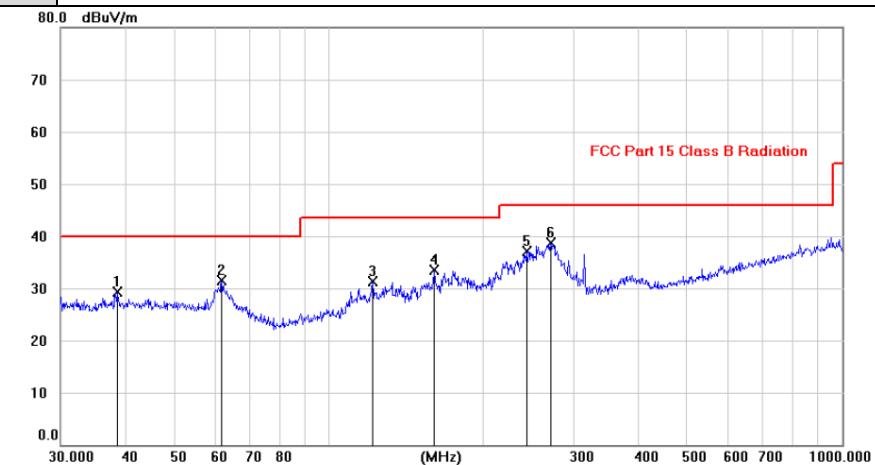
30MHz-1GHz

EUT Description	Wireless Charger	Model No.	WPA01
Temperature	24°C	Humidity	56%
Pol	Vertical	Test date	2020/3/11
Test Voltage	AC 120V/60Hz	Test mode	Full Load



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	30.0922	17.42	13.58	31.00	40.00	-9.00	-9.00	peak			
2	60.9176	17.29	12.89	30.18	40.00	-9.82	-9.82	peak			
3	113.8141	18.17	12.26	30.43	43.50	-13.07	-13.07	peak			
4	157.8354	13.21	14.99	28.20	43.50	-15.30	-15.30	peak			
5	256.2963	17.03	12.83	29.86	46.00	-16.14	-16.14	peak			
6	*	897.3898	15.71	24.20	39.91	46.00	-6.09	peak			

Pol	Horizontal
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	38.7518	14.88	14.39	29.27	40.00	-10.73	-10.73	peak			
2	61.8322	18.54	12.87	31.41	40.00	-8.59	-8.59	peak			
3	121.8687	18.22	13.08	31.30	43.50	-12.20	-12.20	peak			
4	160.7679	18.54	14.93	33.47	43.50	-10.03	-10.03	peak			
5	242.6316	24.45	12.58	37.03	46.00	-8.97	-8.97	peak			
6	*	270.8493	25.45	13.28	38.73	46.00	-7.27	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

4. Antenna Requirements

4.1. Limit

15.203 requirement:

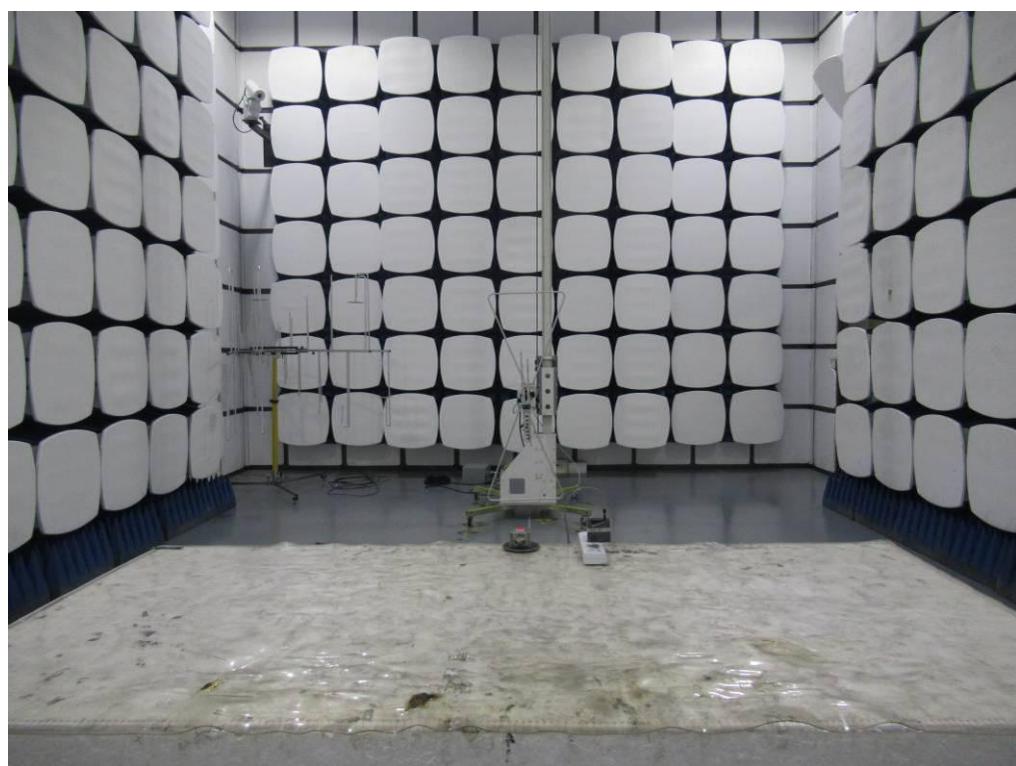
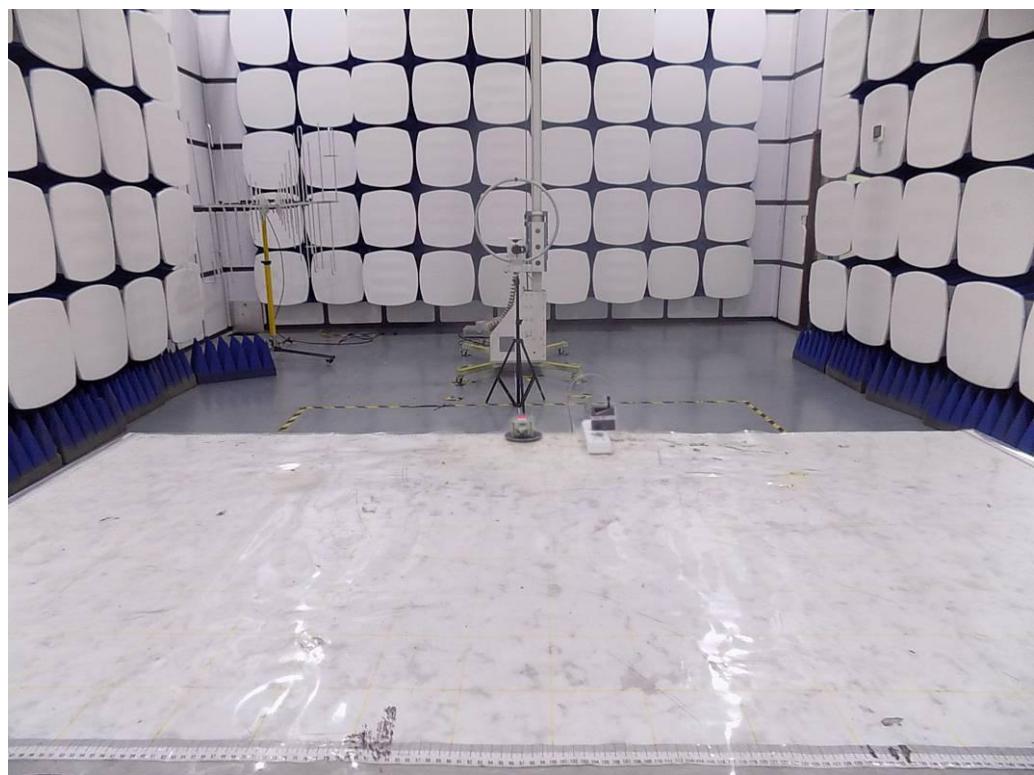
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

4.2. Result

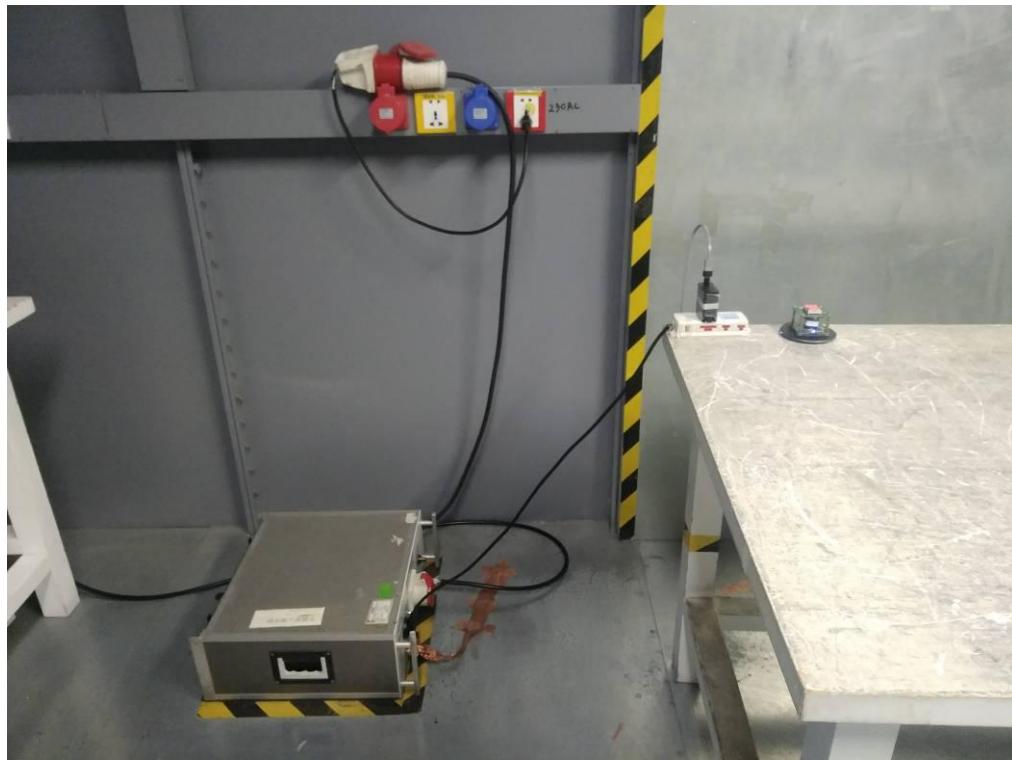
The antenna is coil antenna which permanently attached. It complies with the standard requirement.

5. Photos of test setup

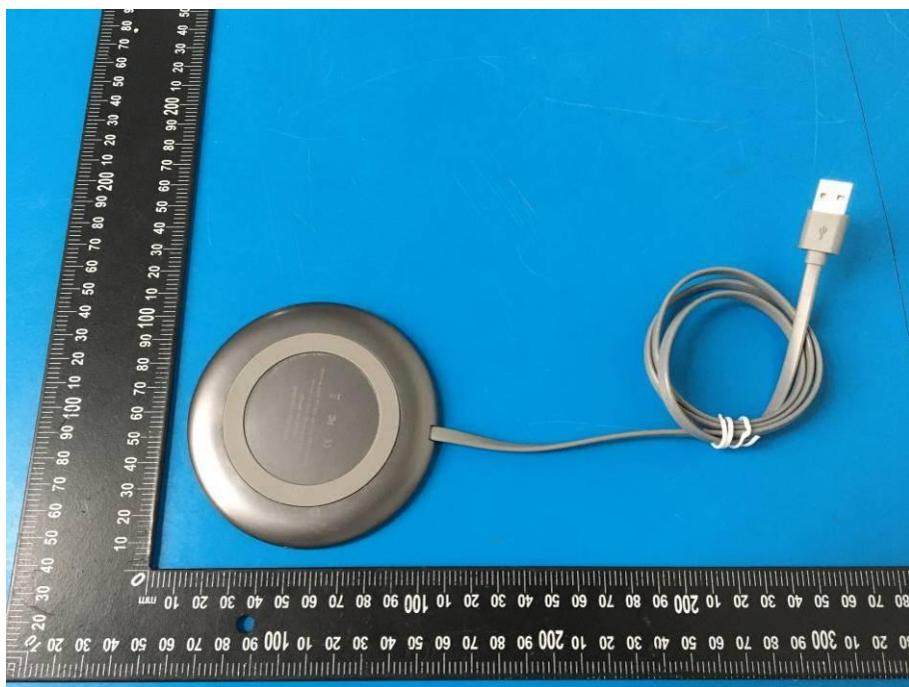
Radiated Emission

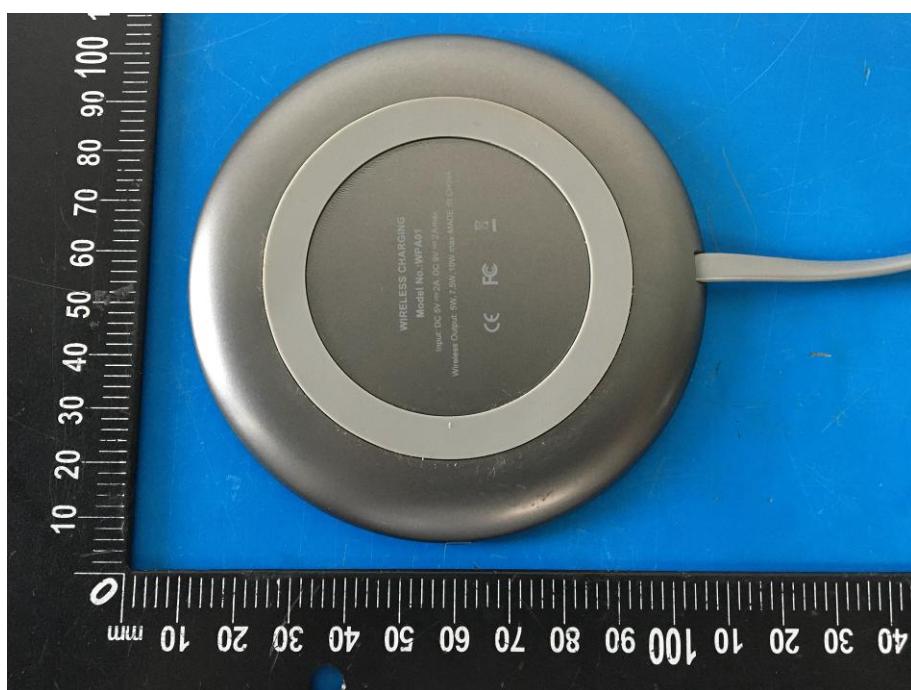


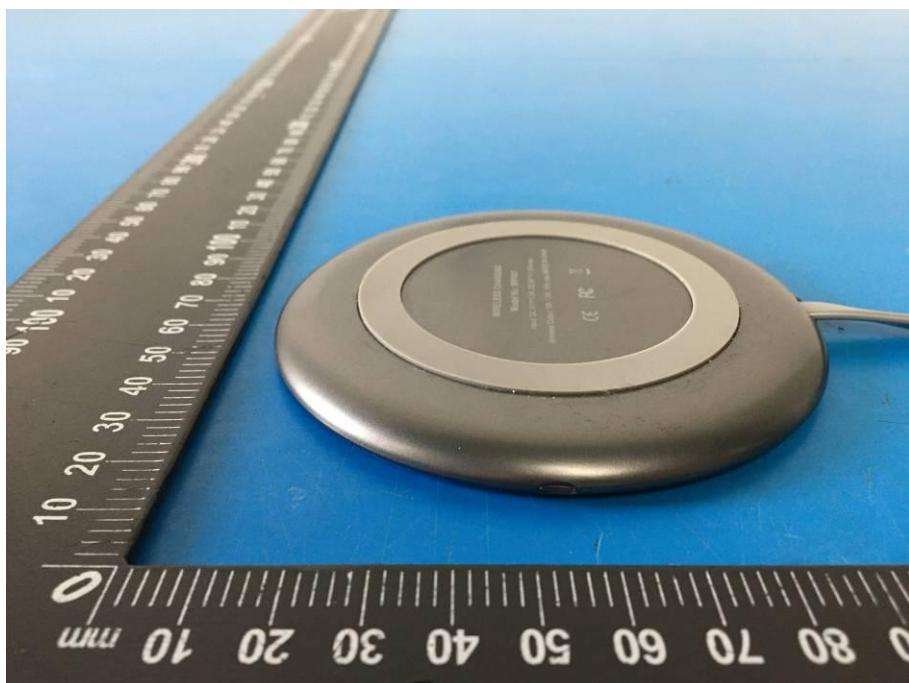
Conducted Emission

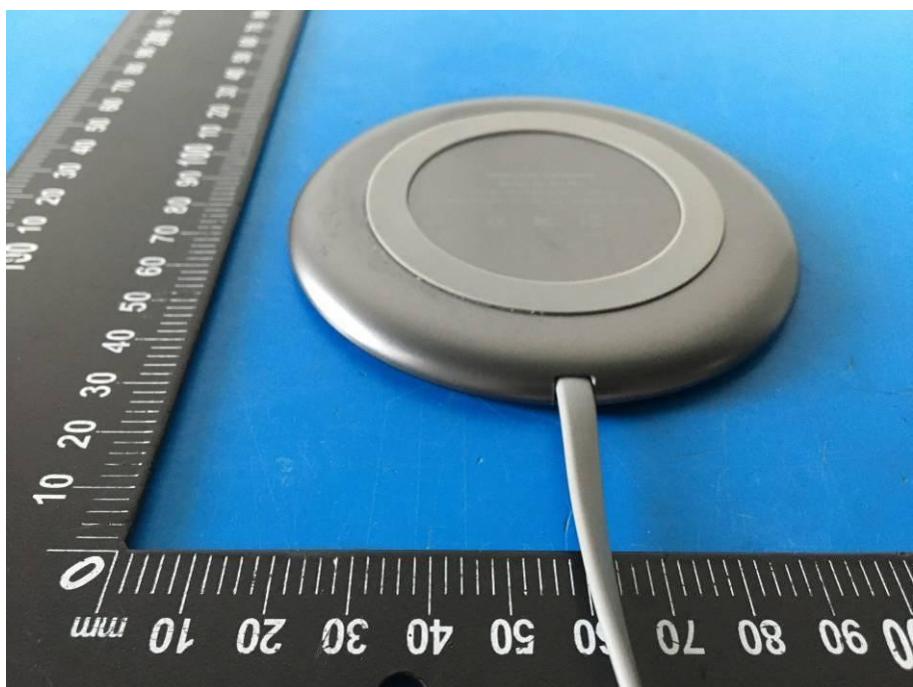


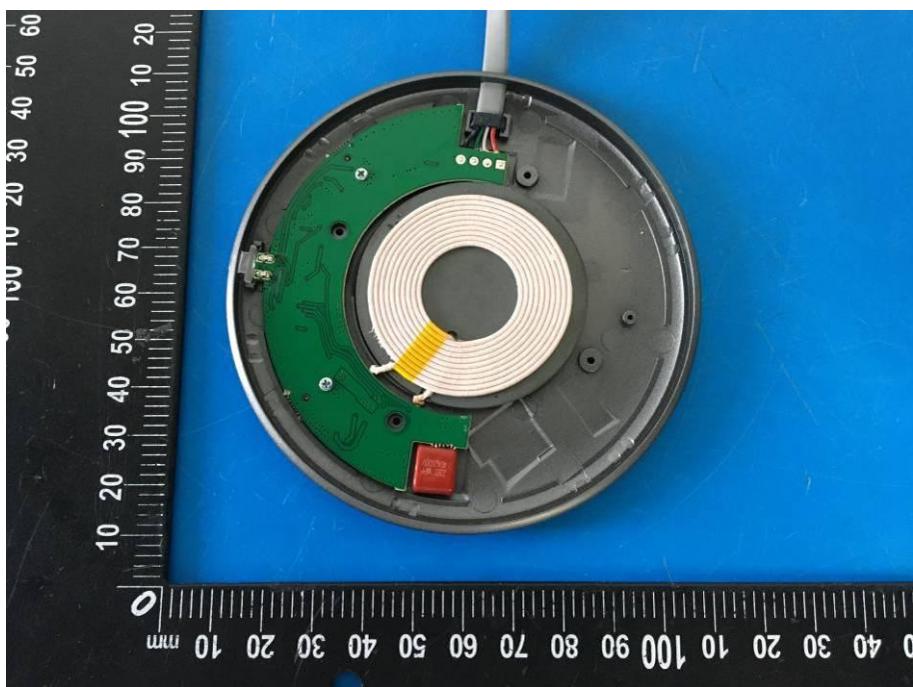
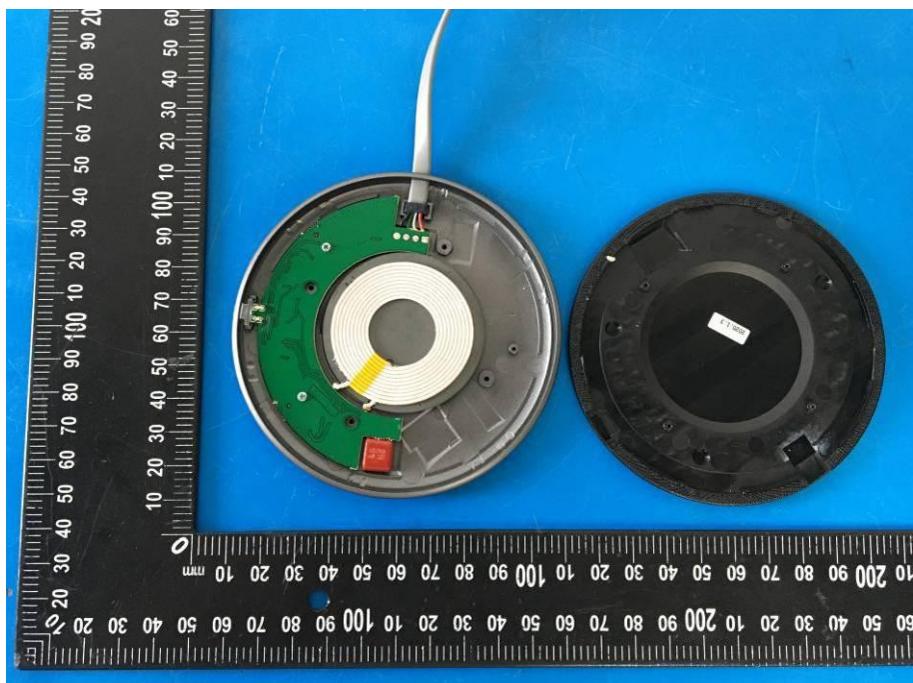
6. Photographs of EUT

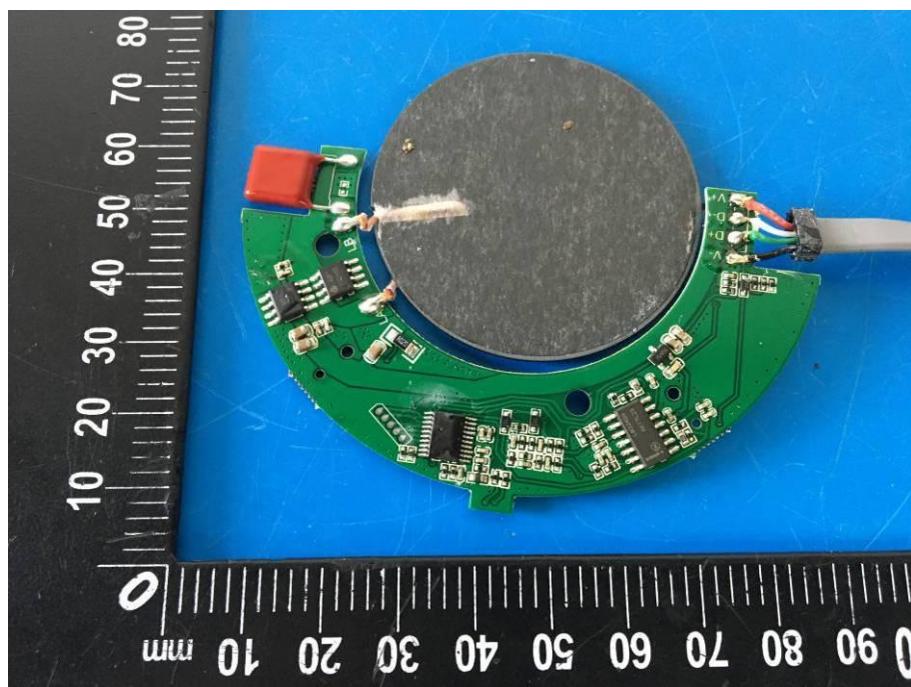
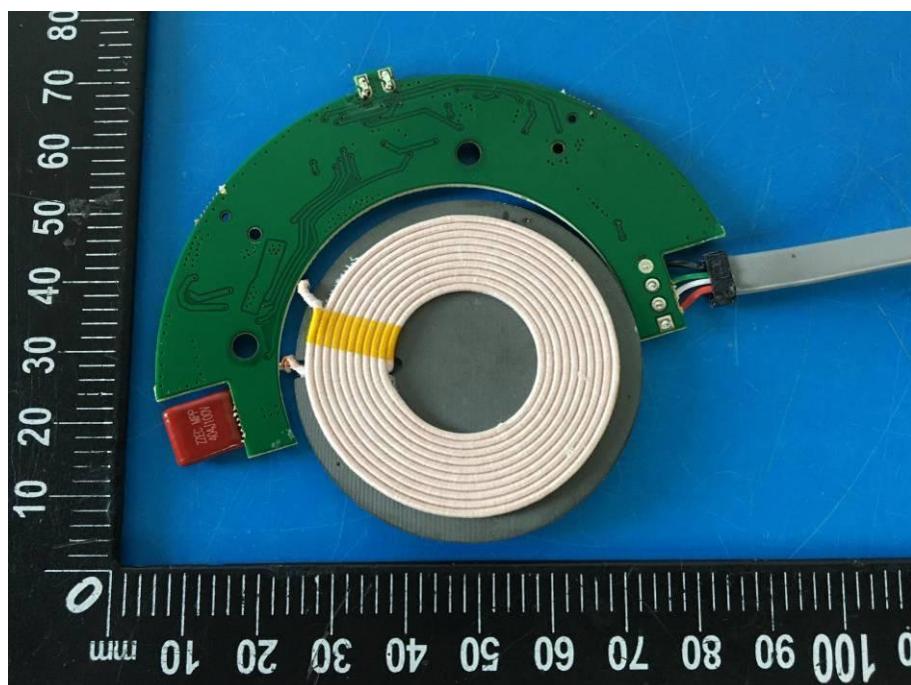












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