

# TEST REPORT

**FCC ID: 2AIOC-1100**

**Product: Wireless Charger Car Mount**

**Model No.: HKWP1100-10Q**

**Additional Model: N/A**

**Trade Mark: N/A**

**Report No.: TCT180424E002**

**Issued Date: Apr. 27, 2018**

Issued for:

**HANK ELECTRONICS CO., LTD.**

**Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China**

Issued By:

**Shenzhen Tongce Testing Lab.**

**1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China**

**TEL: +86-755-27673339**

**FAX: +86-755-27673332**

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**Appendix A: Photographs of Test Setup**

**Appendix B: Photographs of EUT**

## 1. Test Certification

<b>Product:</b>	Wireless Charger Car Mount
<b>Model No.:</b>	HKWP1100-10Q
<b>Additional Model No.:</b>	N/A
<b>Trade Mark:</b>	N/A
<b>Applicant:</b>	HANK ELECTRONICS CO., LTD.
<b>Address:</b>	Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China
<b>Manufacturer:</b>	HANK ELECTRONICS CO., LTD.
<b>Address:</b>	Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China
<b>Date of Test:</b>	Apr. 25, 2018 - Apr. 26, 2018
<b>Applicable Standards:</b>	FCC CFR Title 47 Part 18

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:



Date:

Apr. 26, 2018

Brews Xu

Reviewed By:



Date:

Apr. 27, 2018

Beryl Zhao

Approved By:



Date:

Apr. 27, 2018

Tomsin

## 2. Test Result Summary

Requirement	CFR 47 Section	Result
AC Power Line Conducted Emission	§18.307	PASS
Spurious Emission	§18.305	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.

### 3. EUT Description

<b>Product:</b>	Wireless Charger Car Mount
<b>Model No.:</b>	HKWP1100-10Q
<b>Additional Model No.:</b>	N/A
<b>Trade Mark:</b>	<b>N/A</b>
<b>Hardware Version:</b>	V1.0
<b>Software Version:</b>	V1.0
<b>Operation Frequency:</b>	120.19-174.84KHz
<b>Modulation Technology:</b>	MSK
<b>Antenna Type:</b>	Coil Antenna
<b>Power Supply:</b>	DC 5V, 2A/9V, 1.67A via adapter

## 4. Genera Information

### 4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.
<p>The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p>	

### 4.2. Description of Support Units

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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Mobile Phone	SM-G9350	R28HA2ER3GT	/	SAMSUNG
Adapter	EP-TA20CBC	R37HAEY0DT1RT3	/	SAMSUNG
Adapter	XC-0502000-U	/	/	/

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

## 5. Facilities and Accreditations

### 5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

### 5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

### 5.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$



## 6. Test Results and Measurement Data

### 6.1. Antenna requirement

**Standard requirement:**

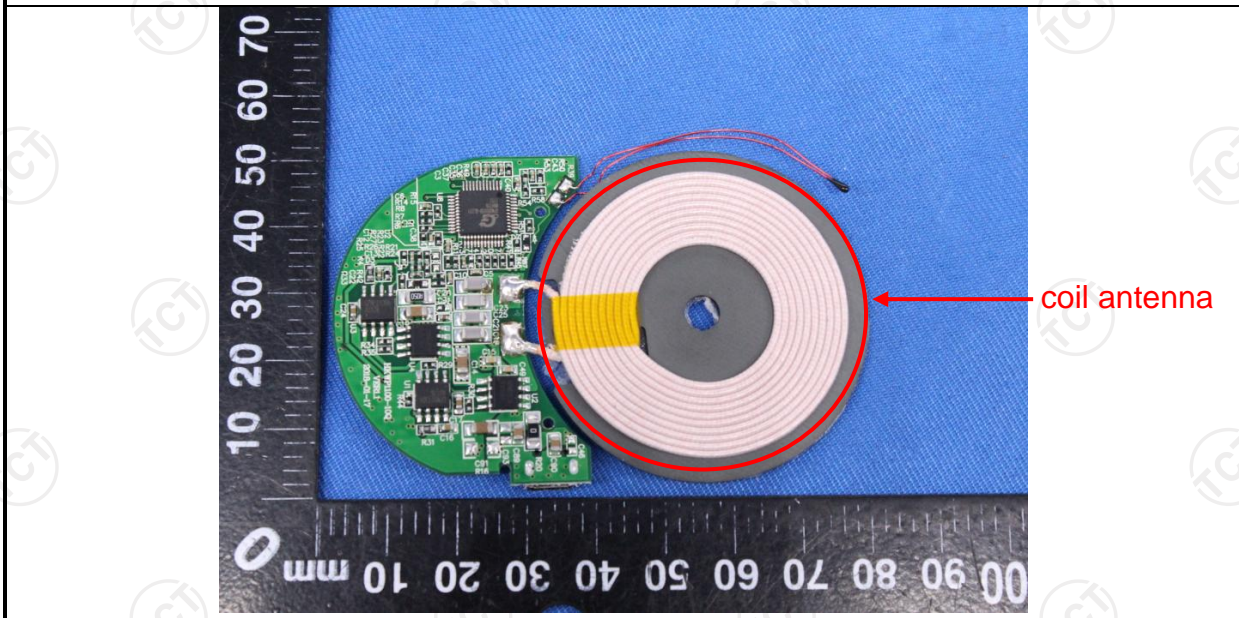
FCC Part15 C Section 15.203

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.

**E.U.T Antenna:**

The antenna is coil antenna which permanently attached, and the best case gain of the antenna is 0dBi.





## 6.2. Conducted Emission

### 6.2.1. Test Specification

<b>Test Requirement:</b>	FCC Part18 Section 15.307														
<b>Test Method:</b>	ANSI C63.10:2013														
<b>Frequency Range:</b>	150 kHz to 30 MHz														
<b>Receiver setup:</b>	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
<b>Limits:</b>	<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													
<b>Test Setup:</b>	<p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
<b>Test Mode:</b>	Charging + Transmitting Mode														
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>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.</li> <li>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).</li> <li>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.</li> </ol>														
<b>Test Result:</b>	PASS														

**6.2.2. Test Instruments**

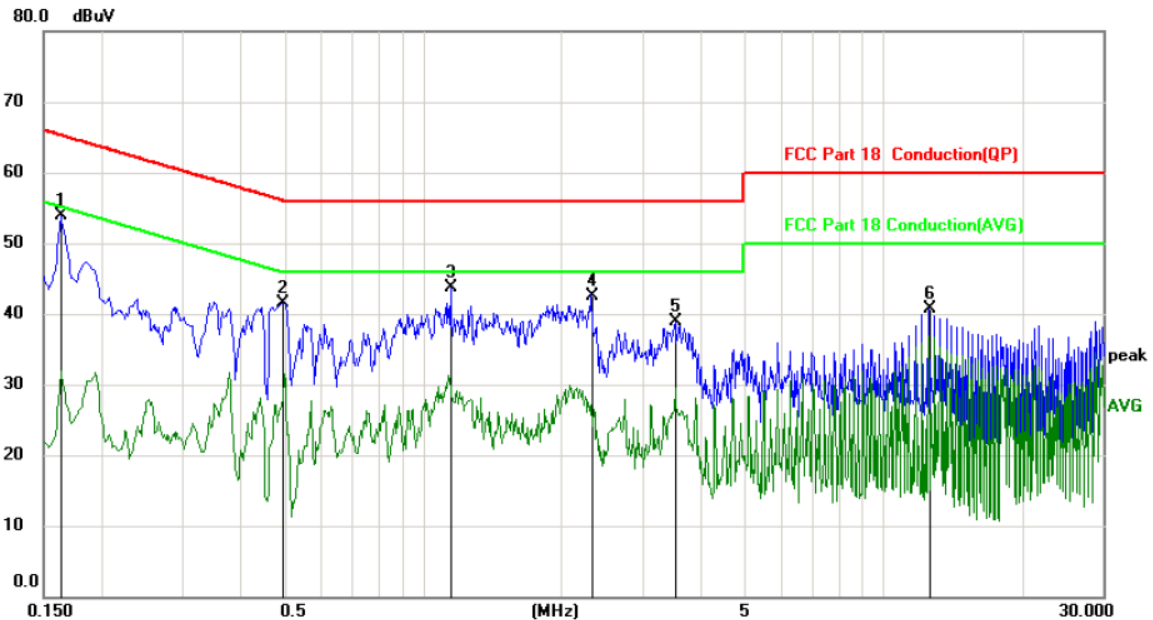
Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	R&S	ESPI	101401	Jun. 12, 2018
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018
Coax cable (9KHz-30MHz)	TCT	CE-05	N/A	Sep. 27, 2018
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site: Phase: **L1** Temperature: 25  
Limit: FCC Part 18 Conduction(QP) Power: Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1635	42.43	11.49	53.92	65.28	-11.36	peak	
2		0.4965	30.27	11.31	41.58	56.06	-14.48	peak	
3		1.1490	32.41	11.28	43.69	56.00	-12.31	peak	
4		2.3235	31.02	11.58	42.60	56.00	-13.40	peak	
5		3.5295	27.72	11.15	38.87	56.00	-17.13	peak	
6		12.5475	29.24	11.50	40.74	60.00	-19.26	peak	

**Note:**

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

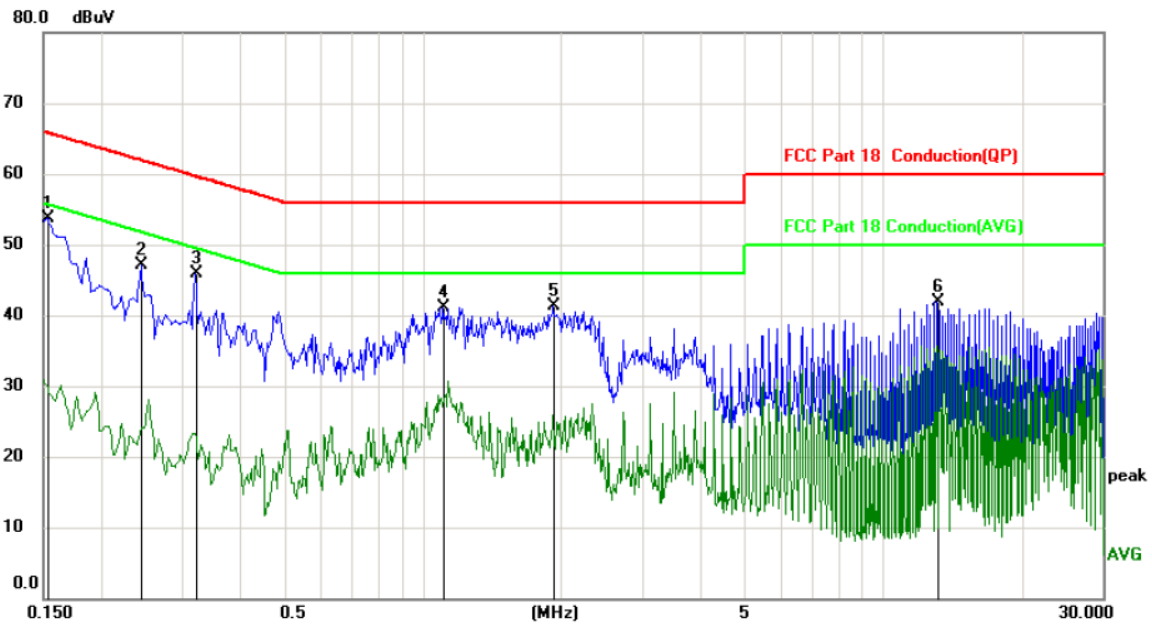
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak

AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

**Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)**



Site: Phase: **N** Temperature: 25  
Limit: FCC Part 18 Conduction(QP) Power: Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1532	42.22	11.49	53.71	65.82	-12.11	peak	
2		0.2445	35.63	11.45	47.08	61.94	-14.86	peak	
3		0.3209	34.41	11.41	45.82	59.68	-13.86	peak	
4		1.1085	29.87	11.26	41.13	56.00	-14.87	peak	
5		1.9185	29.64	11.66	41.30	56.00	-14.70	peak	
6		13.0830	30.37	11.53	41.90	60.00	-18.10	peak	

**Note1:**

- Freq. = Emission frequency in MHz
- Reading level (dBuV) = Receiver reading
- Corr. Factor (dB) = Antenna factor + Cable loss
- Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)
- Limit (dBuV) = Limit stated in standard
- Margin (dB) = Measurement (dBuV) – Limits (dBuV)
- Q.P. =Quasi-Peak AVG =average
- \* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

**Note2:**

Measurements were conducted in both DC 5V and DC 9V input model, and the worst case Mode (DC 9V) was submitted only.

### 6.3. Radiated Spurious Emission Measurement

#### 6.3.1. Test Specification

<b>Test Requirement:</b>	FCC Part18 Section 15.305																																														
<b>Test Method:</b>	ANSI C63.10: 2013																																														
<b>Frequency Range:</b>	9 kHz to 25 GHz																																														
<b>Measurement Distance:</b>	3 m																																														
<b>Antenna Polarization:</b>	Horizontal & Vertical																																														
<b>Operation mode:</b>	Refer to item 4.1																																														
<b>Receiver Setup:</b>	<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																	
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Above 1GHz	Peak	1MHz	3MHz	Peak Value																																											
	Peak	1MHz	10Hz	Average Value																																											
<b>Limit:</b>	<table border="1"> <thead> <tr> <th>Equipment</th> <th>Operating frequency</th> <th>RF Power generated by equipment (watts)</th> <th>Field strength limit (uV/m)</th> <th>Distance (meters)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Any type unless otherwise specified (miscellaneous)</td> <td>Any ISM frequency</td> <td>Below 500 500 or more</td> <td>25 <math>25 \times \text{SQRT}(\text{power}/500)</math></td> <td>300 1300</td> </tr> <tr> <td>Any non-ISM frequency</td> <td>Below 500 500 or more</td> <td>15 <math>15 \times \text{SQRT}(\text{power}/500)</math></td> <td>300 1300</td> </tr> <tr> <td>Industrial heaters and RF stabilized arc welders</td> <td>On or below 5,725 MHz Above 5,725 MHz</td> <td>Any Any</td> <td>10 (<sup>2</sup>)</td> <td>1,600 (<sup>2</sup>)</td> </tr> <tr> <td rowspan="2">Medical diathermy</td> <td>Any ISM frequency</td> <td>Any</td> <td>25 15</td> <td>300 300</td> </tr> <tr> <td>Any non-ISM frequency</td> <td>Any</td> <td>15</td> <td>300</td> </tr> <tr> <td rowspan="2">Ultrasonic</td> <td>Below 490 kHz</td> <td>Below 500 500 or more</td> <td><math>2,400/F(\text{kHz})</math> <math>2,400/F(\text{kHz}) \times \text{SQRT}(\text{power}/500)</math></td> <td>300 <sup>3</sup>300</td> </tr> <tr> <td>490 to 1,600 kHz Above 1,600 kHz</td> <td>Any Any</td> <td>24,000/F(kHz) 15</td> <td>30 30</td> </tr> <tr> <td rowspan="2">Induction cooking ranges</td> <td>Below 90 kHz</td> <td>Any</td> <td>1,500</td> <td><sup>4</sup>30</td> </tr> <tr> <td>On or above 90 kHz</td> <td>Any</td> <td>300</td> <td><sup>4</sup>30</td> </tr> </tbody> </table>	Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)	Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 $25 \times \text{SQRT}(\text{power}/500)$	300 1300	Any non-ISM frequency	Below 500 500 or more	15 $15 \times \text{SQRT}(\text{power}/500)$	300 1300	Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 ( <sup>2</sup> )	1,600 ( <sup>2</sup> )	Medical diathermy	Any ISM frequency	Any	25 15	300 300	Any non-ISM frequency	Any	15	300	Ultrasonic	Below 490 kHz	Below 500 500 or more	$2,400/F(\text{kHz})$ $2,400/F(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	300 <sup>3</sup> 300	490 to 1,600 kHz Above 1,600 kHz	Any Any	24,000/F(kHz) 15	30 30	Induction cooking ranges	Below 90 kHz	Any	1,500	<sup>4</sup> 30	On or above 90 kHz	Any	300	<sup>4</sup> 30
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	On or above 90 kHz	Any	300	<sup>4</sup> 30																																											
<b>Test setup:</b>	<p>For radiated emissions below 30MHz</p>																																														
	<p>1. For the radiated emission test below 1GHz:</p>																																														

	<p>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.</p> <ol style="list-style-type: none"> <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:             <ol style="list-style-type: none"> <li>(1) Span shall wide enough to fully capture the emission being measured;</li> <li>(2) Set RBW=200Hz for 9K&lt; f &lt;150 KHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;</li> <li>(3) Set RBW = 9 KHz, VBW= 30KHz for 150KHz &lt;f &lt; 30 MHz for peak measurement.</li> </ol> </li> </ol>
<b>Test mode:</b>	Refer to section 4.1 for details
<b>Test results:</b>	PASS

**6.3.2. Test Instruments**

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Coax cable (9KHz-1GHz)	TCT	RE-low-01	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	TCT	RE-high-02	N/A	Sep. 27, 2018
Coax cable (9KHz-1GHz)	TCT	RE-low-03	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	TCT	RE-high-04	N/A	Sep. 27, 2018
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

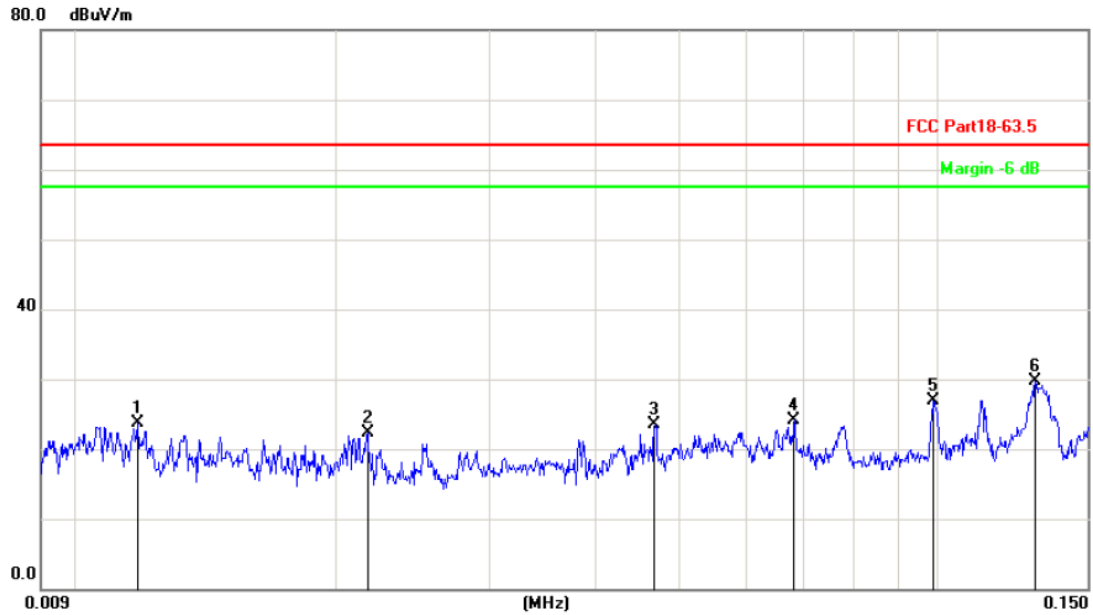


**6.3.3. Test Data**

Please refer to following diagram for individual

**9KHz-30MHz**

9KHz-150KHz:

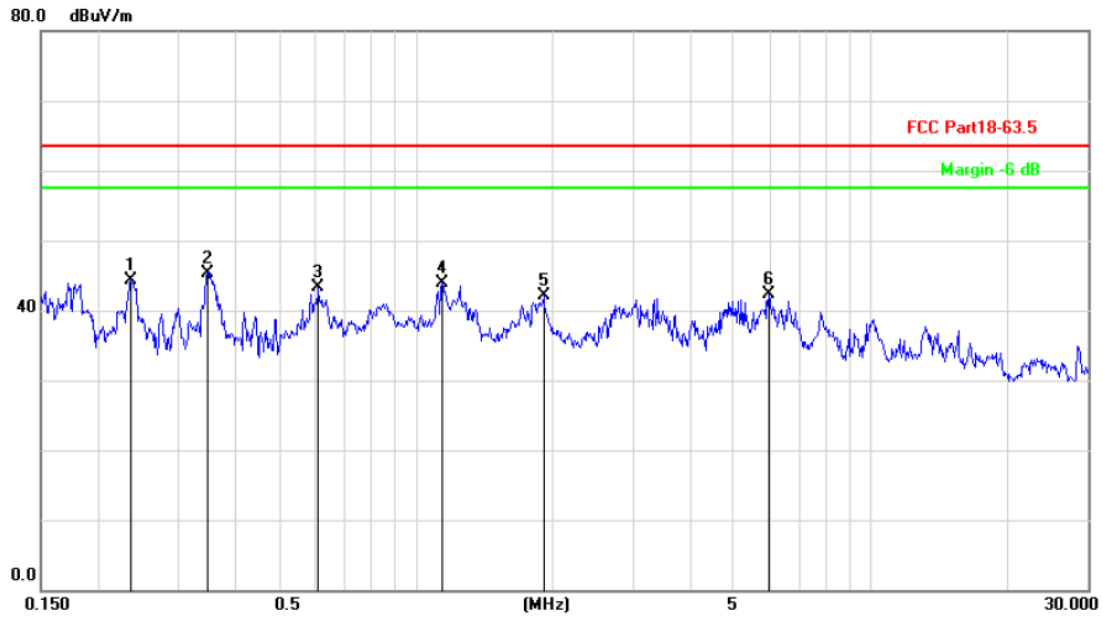


Site: Polarization: *Vertical* Temperature: 25  
Limit: FCC Part18-63.5 Power: Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	cm	degree	Comment
1		0.0117	22.12	1.65	23.77	63.50	-39.73	peak		
2		0.0217	24.70	-2.36	22.34	63.50	-41.16	peak		
3		0.0468	22.71	0.88	23.59	63.50	-39.91	peak		
4		0.0680	22.68	1.48	24.16	63.50	-39.34	peak		
5		0.0990	22.74	4.08	26.82	63.50	-36.68	peak		
6	*	0.1302	24.27	5.49	29.76	63.50	-33.74	peak		

**Note1:** If measurements are made at only one closer fixed distance, then the permissible field strength limits shall be adjusted using 1/d as an attenuation factor. So the limit at 3 m is 1500 uv/m( $\approx$ 63.5 dBuV/m)

150KHz-30MHz:



Site: Polarization: **Vertical** Temperature: 26  
 Limit: FCC Part18-63.5 Power: Humidity: 60 %

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dB/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	0.2366	37.80	6.60	44.40	63.50	-19.10	peak			
2 *	0.3482	39.04	6.29	45.33	63.50	-18.17	peak			
3	0.6108	37.34	5.91	43.25	63.50	-20.25	peak			
4	1.1411	38.10	5.80	43.90	63.50	-19.60	peak			
5	1.9072	36.99	5.16	42.15	63.50	-21.35	peak			
6	5.9607	39.09	3.19	42.28	63.50	-21.22	peak			

**Note1:** If measurements are made at only one closer fixed distance, then the permissible field strength limits shall be adjusted using 1/d as an attenuation factor. So the limit at 3 m is 1500 uv/m(≈63.5 dBuV/m)

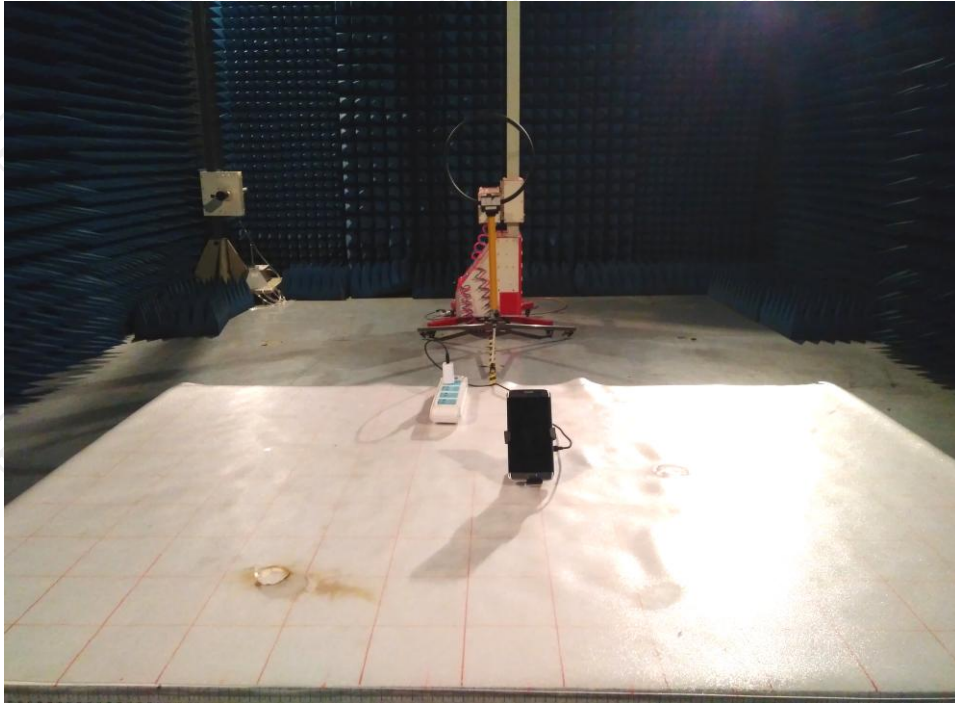
**Note2:** Measurements were conducted in both DC 5V and DC 9V input model, and the worst case Mode (DC 9V) was submitted only.

### Appendix A: Photographs of Test Setup

Product: Wireless Charger Car Mount

Model: HKWP1100-10Q

Radiated Emission



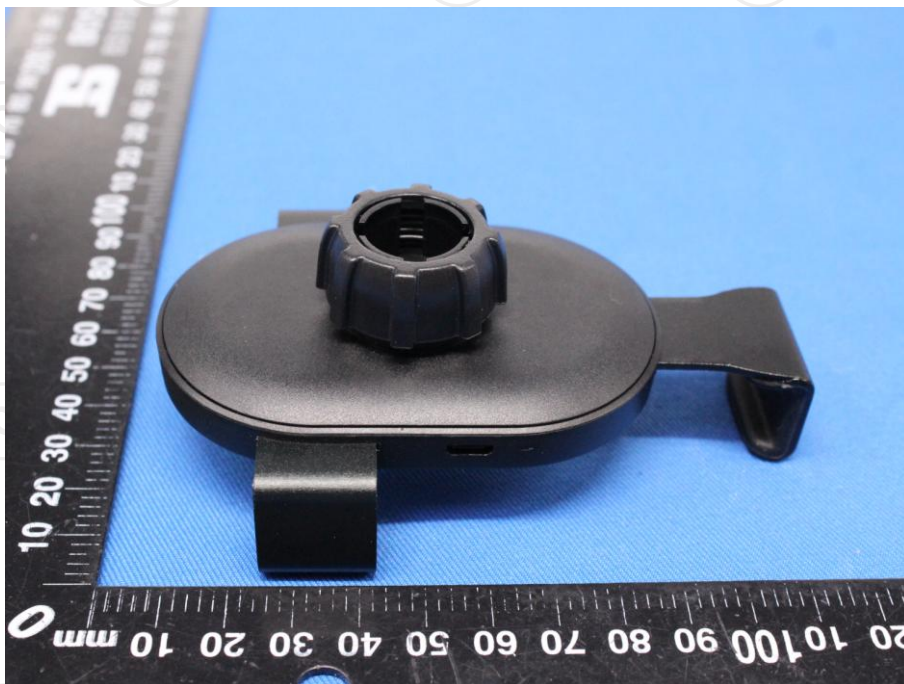
Conducted Emission

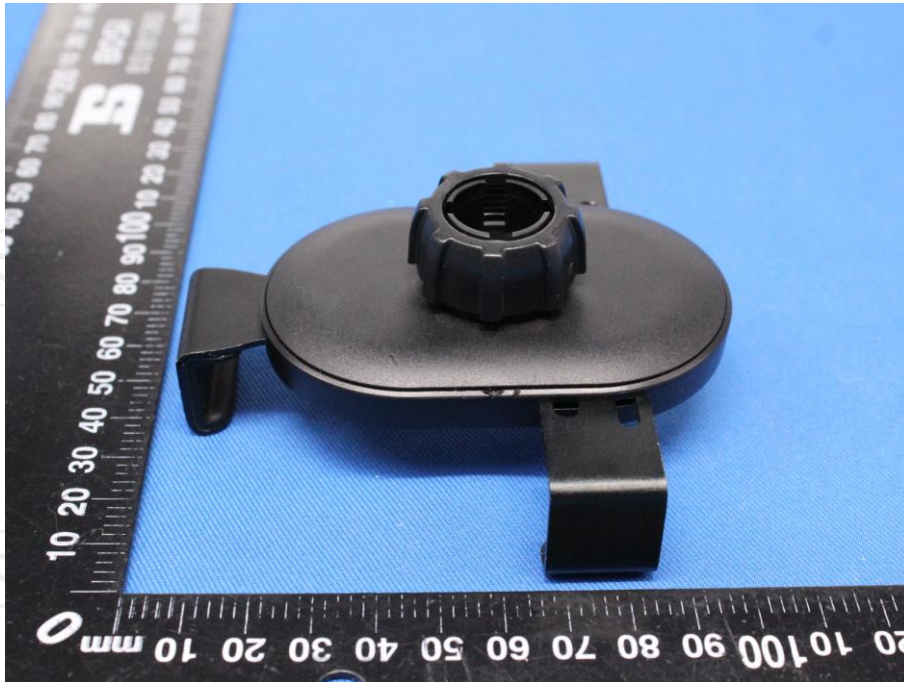


**Appendix B: Photographs of EUT**  
**Product: Wireless Charger Car Mount**  
**Model: HKWP1100-10Q**  
**External Photos**





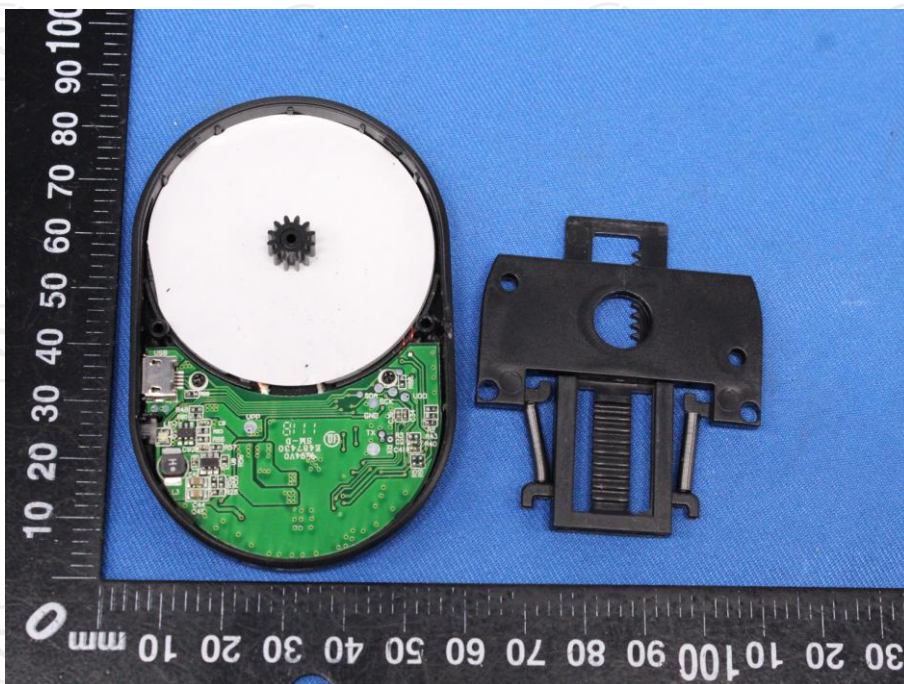
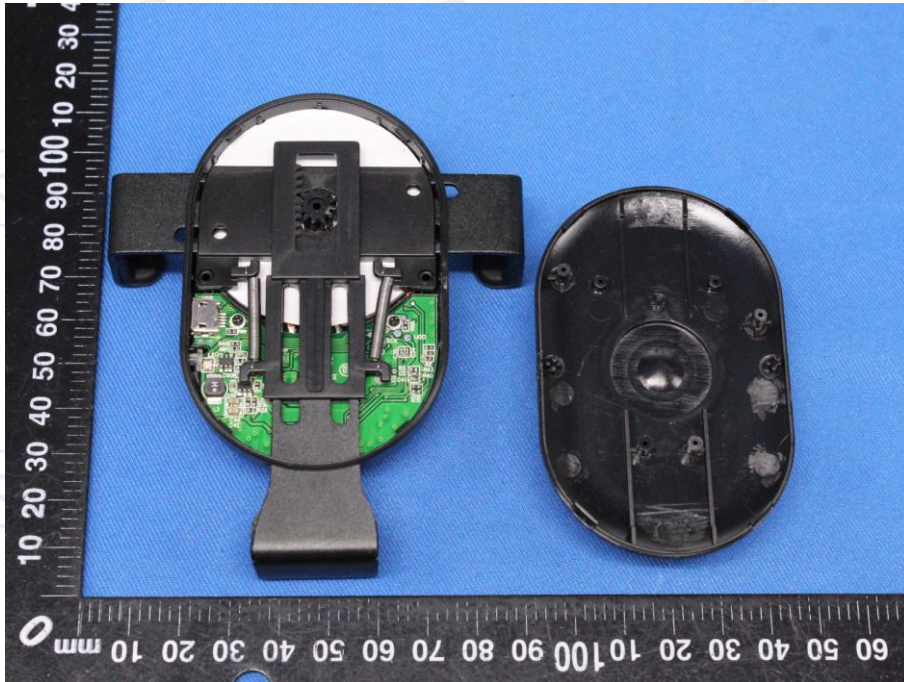




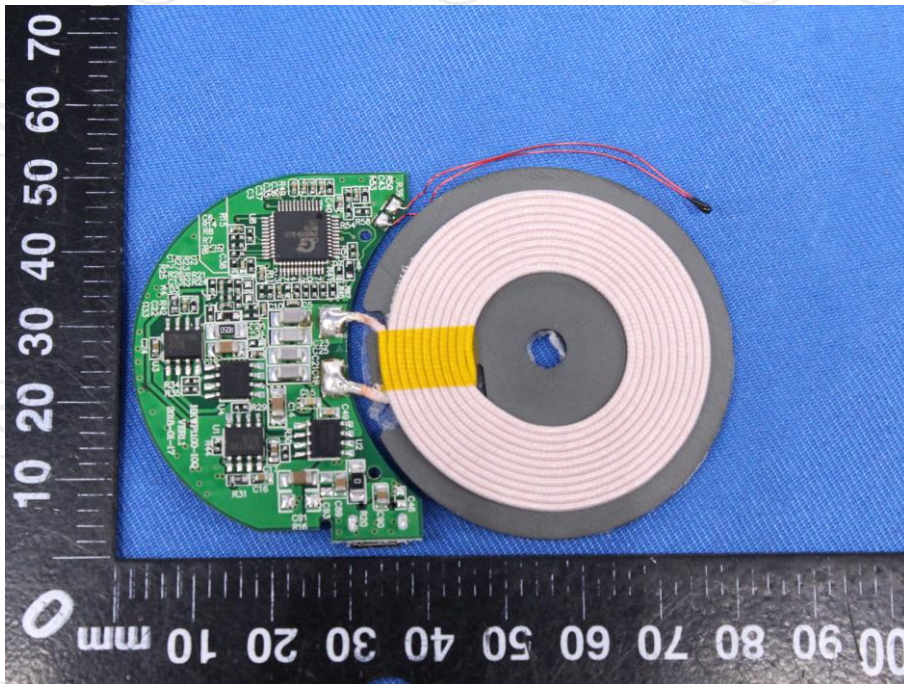
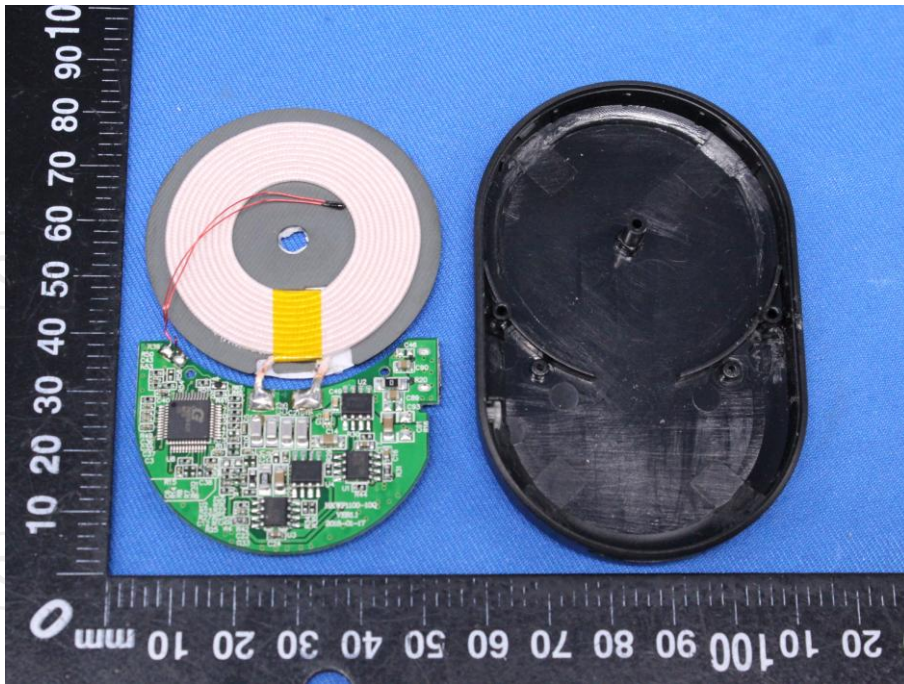


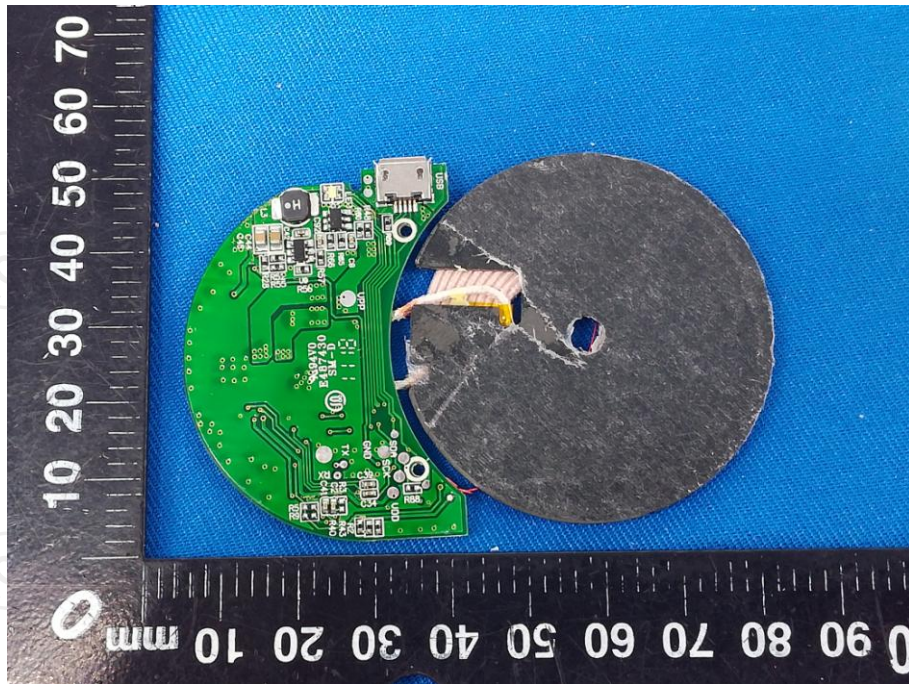


**Product: Wireless Charger Car Mount**  
**Model: HKWP1100-10Q**  
**Internal Photos**









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