

TEST REPORT

FCC ID: 2ALCFXO-9602

Product: Circular Wireless Charger

Model No.: XO-9602

Additional Model: MA-2803

Trade Mark: N/A

Report No.: TCT180709E001

Issued Date: Jul. 12, 2018

Issued for:

**Dongguan Xing Yue Electronic co., Ltd
#98 LiWu Swan Industrial District, Qiao Tou Town, Dong Guan City, Guang
Dong, China**

Issued By:

**Shenzhen Tongce Testing Lab.
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Appendix A: Photographs of Test Setup**Appendix B: Photographs of EUT**

1. Test Certification

Product:	Circular Wireless Charger
Model No.:	XO-9602
Additional Model No.:	MA-2803
Trade Mark:	N/A
Applicant:	Dongguan Xing Yue Electronic co., Ltd
Address:	#98 LiWu Swan Industrial District, Qiao Tou Town, Dong Guan City, Guang Dong, China
Manufacturer:	Dongguan Xing Yue Electronic co., Ltd
Address:	#98 LiWu Swan Industrial District, Qiao Tou Town, Dong Guan City, Guang Dong, China
Date of Test:	Jul. 09, 2018 - Jul. 11, 2018
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C

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: _____

Brews Xu

Date: Jul. 11, 2018

Reviewed By: _____

Beryl Zhao

Date: Jul. 12, 2018

Approved By: _____



Tomsin

Date: Jul. 12, 2018

2. 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.*

3. EUT Description

Product:	Circular Wireless Charger
Model No.:	XO-9602
Additional Model No.:	MA-2803
Trade Mark:	N/A
Hardware Version:	YH0719-1
Software Version:	XO-9602 DataSheet V1.0
Operation Frequency:	110-205KHz
Modulation Technology:	Load modulation
Antenna Type:	Inductive loop coil Antenna
Power Supply:	DC 5V via adapter
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

4. General 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.
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 & 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.	

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	Iphone6	FFQQ8F8AG5MQ	BCG-E2816A	Apple
Adapter	KZ0502000	/	/	/

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 expended 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 inductive loop coil antenna which permanently attached.	

6.2. Conducted Emission

6.2.1. 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 Mode:	Charging + Transmitting Mode														
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														

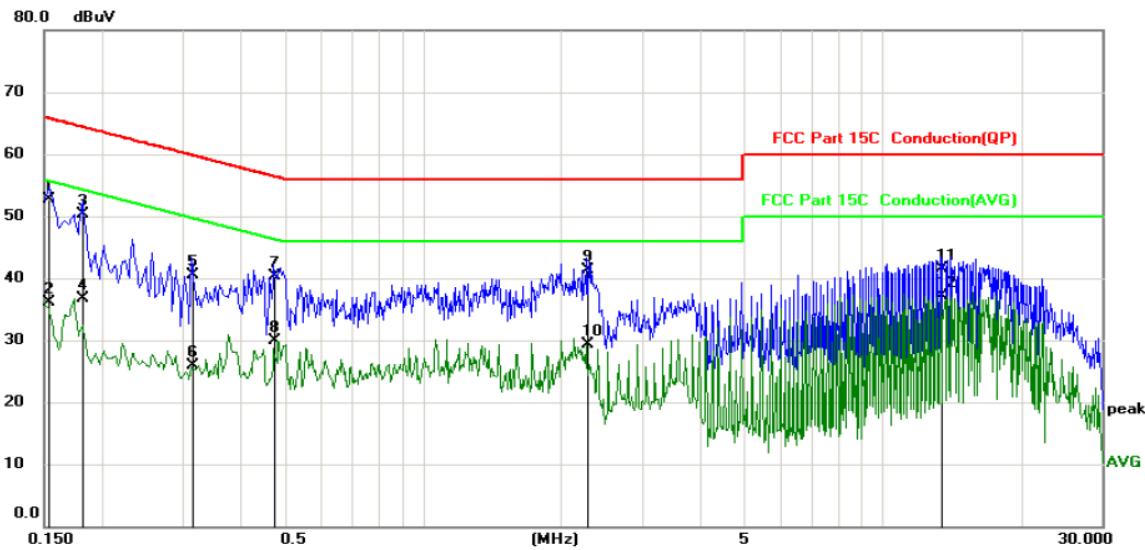
6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	R&S	ESPI	101401	Sep. 27, 2018
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018
Coax cable (9KHz-30MHz)	TCT	CE-05	N/A	Sep. 27, 2018
EMI Test Software	Shurples 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 15C Conduction(QP)		Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over	
							Power: dB	Detector
1		0.1539	41.20	11.49	52.69	65.79	-13.10	QP
2		0.1539	24.66	11.49	36.15	55.79	-19.64	AVG
3		0.1819	38.90	11.48	50.38	64.40	-14.02	QP
4		0.1819	25.27	11.48	36.75	54.40	-17.65	AVG
5		0.3140	29.00	11.41	40.41	59.86	-19.45	QP
6		0.3140	14.46	11.41	25.87	49.86	-23.99	AVG
7		0.4740	28.90	11.32	40.22	56.44	-16.22	QP
8		0.4740	18.64	11.32	29.96	46.44	-16.48	AVG
9		2.2740	29.70	11.60	41.30	56.00	-14.70	QP
10		2.2740	17.71	11.60	29.31	46.00	-16.69	AVG
11		13.3540	29.90	11.55	41.45	60.00	-18.55	QP
12 *		13.3540	25.46	11.55	37.01	50.00	-12.99	AVG

Note:

Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

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

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

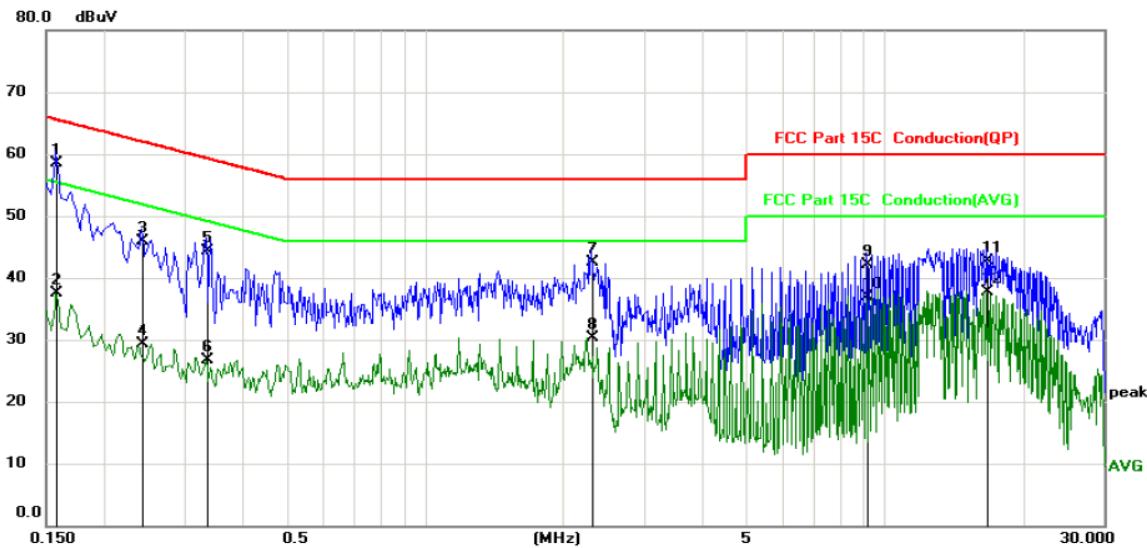
Margin (dB) = Measurement (dB μ V) - Limits (dB μ V)

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 15C Conduction(QP)	Power:		Humidity:	55 %					
<hr/>									
No.	Mk.	Freq. MHz	Reading Level dB μ V	Correct Factor dB	Measure- ment dB μ V	Limit dB	Over dB	Detector	Comment
1	*	0.1580	47.00	11.49	58.49	65.57	-7.08	QP	
2		0.1580	26.05	11.49	37.54	55.57	-18.03	AVG	
3		0.2420	34.40	11.45	45.85	62.03	-16.18	QP	
4		0.2420	17.85	11.45	29.30	52.03	-22.73	AVG	
5		0.3339	33.00	11.40	44.40	59.35	-14.95	QP	
6		0.3339	15.30	11.40	26.70	49.35	-22.65	AVG	
7		2.3060	30.90	11.59	42.49	56.00	-13.51	QP	
8		2.3060	18.77	11.59	30.36	46.00	-15.64	AVG	
9		9.1459	30.80	11.26	42.06	60.00	-17.94	QP	
10		9.1459	25.74	11.26	37.00	50.00	-13.00	AVG	
11		16.7220	31.30	11.33	42.63	60.00	-17.37	QP	
12		16.7220	26.41	11.33	37.74	50.00	-12.26	AVG	

Note1:

Freq. = Emission frequency in MHz

Reading level ($dB\mu$ V) = Receiver reading

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

Measurement ($dB\mu$ V) = Reading level ($dB\mu$ V) + Corr. Factor (dB)

Limit ($dB\mu$ V) = Limit stated in standard

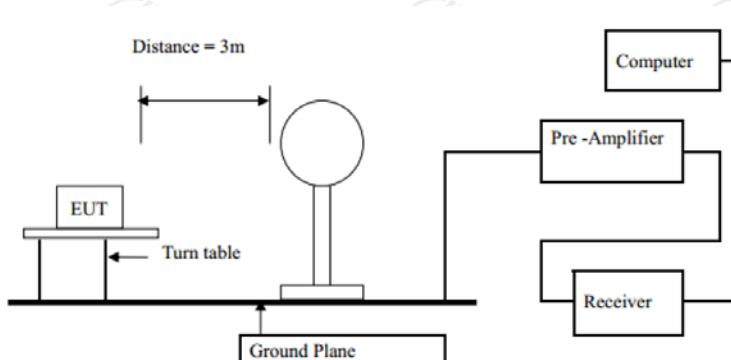
Margin (dB) = Measurement ($dB\mu$ V) – Limits ($dB\mu$ V)

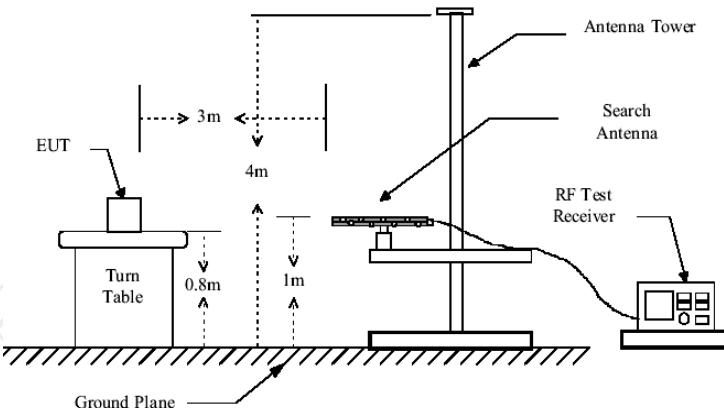
Q.P. =Quasi-Peak AVG =average

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

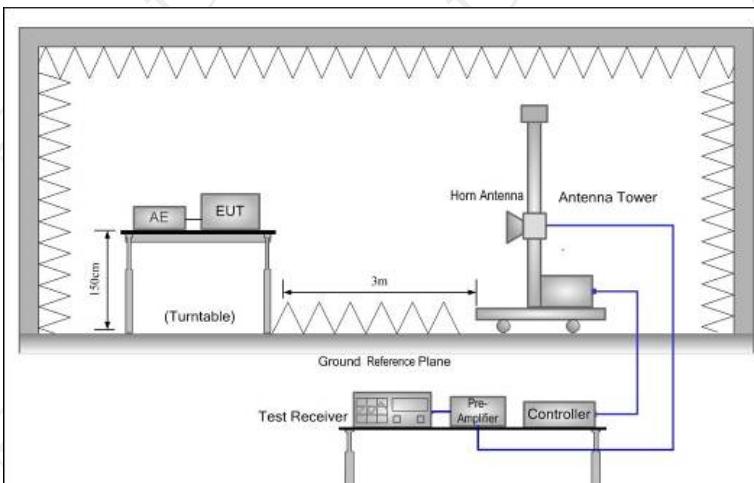
6.3. Radiated Spurious Emission Measurement

6.3.1. 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																																															
Operation mode:	Refer to item 4.1																																															
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																																												
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak 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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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>Distance = 3m</p> <p>EUT</p> <p>Turn table</p> <p>Ground Plane</p> <p>Computer</p> <p>Pre -Amplifier</p> <p>Receiver</p> <p>30MHz to 1GHz</p>																																															



Above 1GHz



Test Procedure:	<p>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.</p> <p>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>
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	<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 mode:	Refer to section 4.1 for details
Test results:	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	Sep. 27, 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	Shurples Technology	EZ-EMC	N/A	N/A

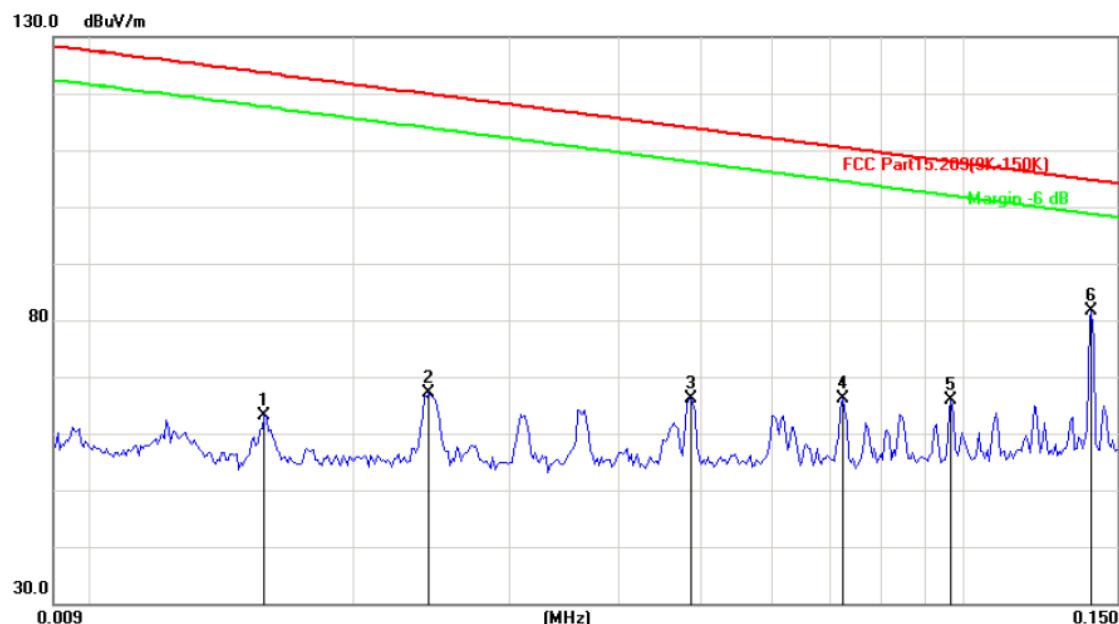
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.3. Test Data

Please refer to following diagram for individual

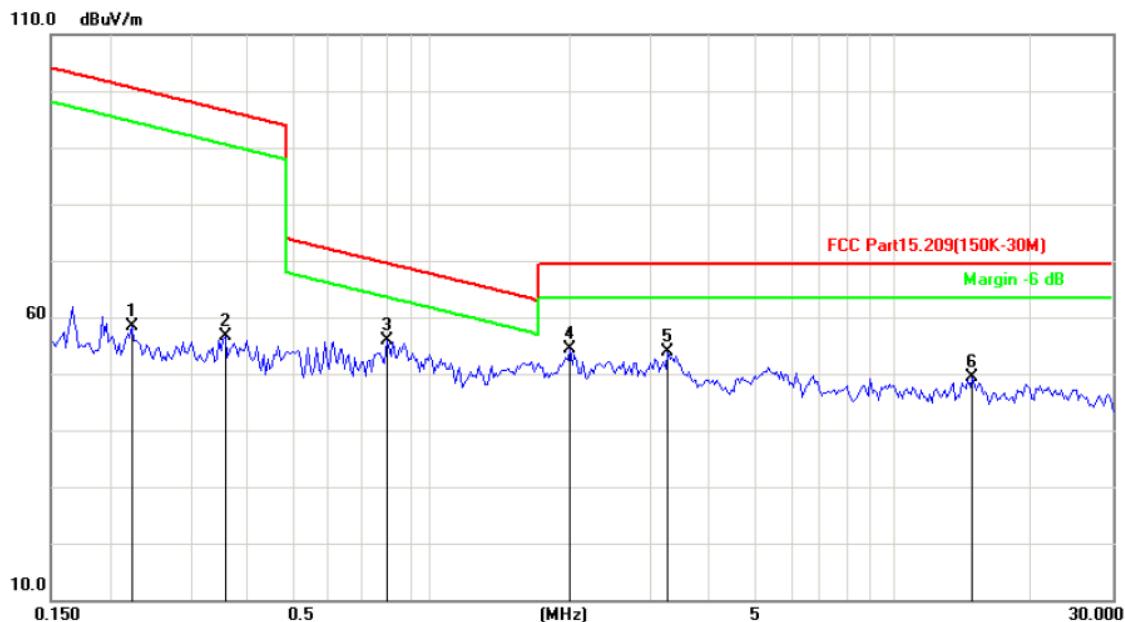
9KHz-30MHz

9KHz-150KHz:



Site				Polarization: <i>Horizontal</i>			Temperature: 25				
Limit: FCC Part15.209(9K-150K)				Power: DC 5V			Humidity: 55 %				
No.	Mk.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment		
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		0.0157	42.21	20.82	63.03	123.6	-60.66	peak			
2		0.0243	48.23	18.83	67.06	119.9	-52.84	peak			
3		0.0486	45.58	20.46	66.04	113.8	-47.84	peak			
4		0.0725	44.04	22.08	66.12	110.4	-44.29	peak			
5		0.0966	42.22	23.73	65.95	107.9	-41.97	peak			
6	*	0.1401	55.77	25.90	81.67	104.6	-23.02	peak			

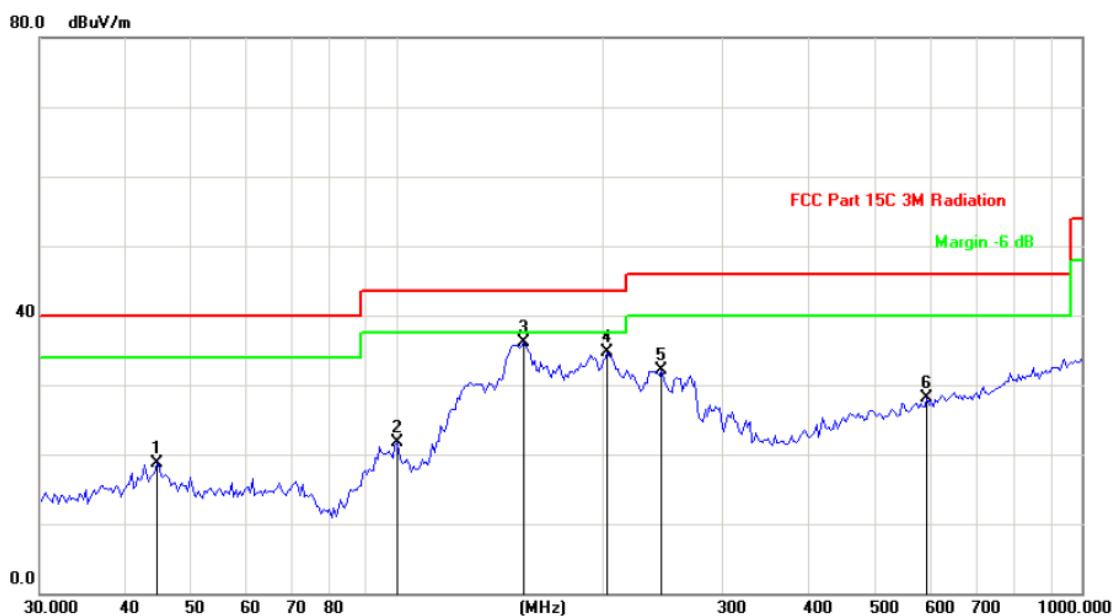
150KHz-30MHz:



Site				Polarization: <i>Horizontal</i>			Temperature: 25				
Limit: FCC Part15.209(150K-30M)				Power: DC 5V			Humidity: 55 %				
No.	Mk.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree			
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	0.2245	32.47	25.93	58.40	100.5	-42.19	peak				
2	0.3583	30.99	25.69	56.68	96.52	-39.84	peak				
3 *	0.8026	30.41	25.45	55.86	69.53	-13.67	peak				
4	2.0009	29.12	25.16	54.28	69.50	-15.22	peak				
5	3.2610	28.87	25.08	53.95	69.50	-15.55	peak				
6	14.8857	24.36	24.97	49.33	69.50	-20.17	peak				

30MHz-1GHz

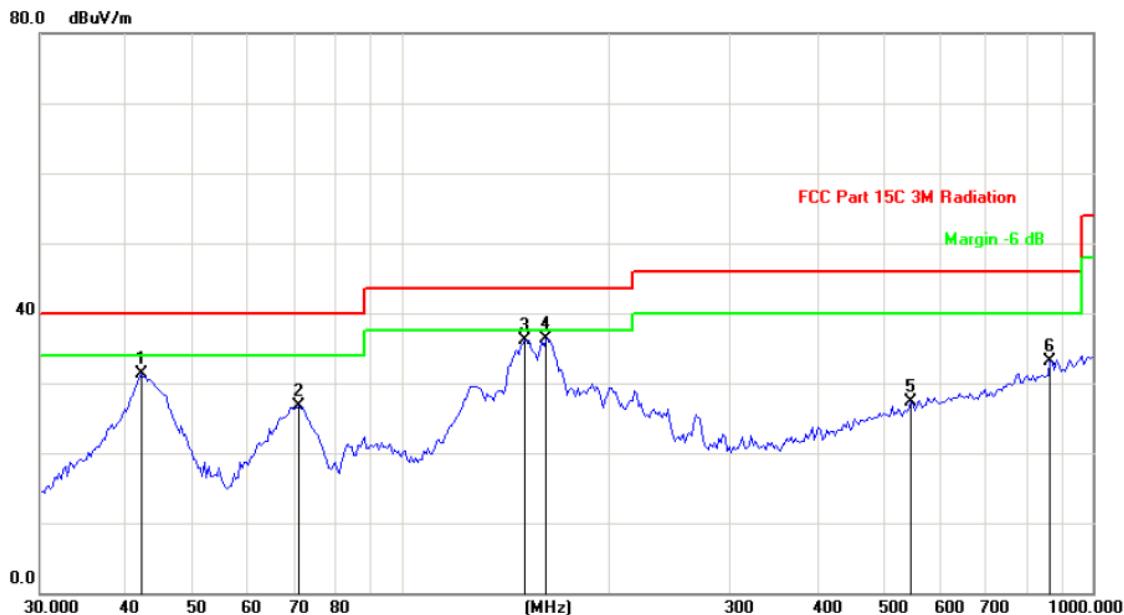
Horizontal:



Site	Polarization: Horizontal	Temperature: 25
Limit: FCC Part 15C 3M Radiation	Power:	Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	44.4657	31.51	-12.75	18.76	40.00	-21.24	peak				
2	99.7676	33.69	-11.92	21.77	43.50	-21.73	peak				
3 *	153.1627	51.66	-15.61	36.05	43.50	-7.45	peak				
4	202.8745	47.32	-12.62	34.70	43.50	-8.80	peak				
5	243.5431	43.19	-11.06	32.13	46.00	-13.87	peak				
6	594.5143	29.06	-0.90	28.16	46.00	-17.84	peak				

Vertical:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		42.0350	44.07	-12.79	31.28	40.00	-8.72	peak			
2		71.2033	43.99	-17.24	26.75	40.00	-13.25	peak			
3		151.0252	51.89	-15.74	36.15	43.50	-7.35	peak			
4	*	162.0197	51.29	-15.07	36.22	43.50	-7.28	peak			
5		546.4368	29.28	-2.01	27.27	46.00	-18.73	peak			
6		868.8860	30.17	2.86	33.03	46.00	-12.97	peak			

Note:

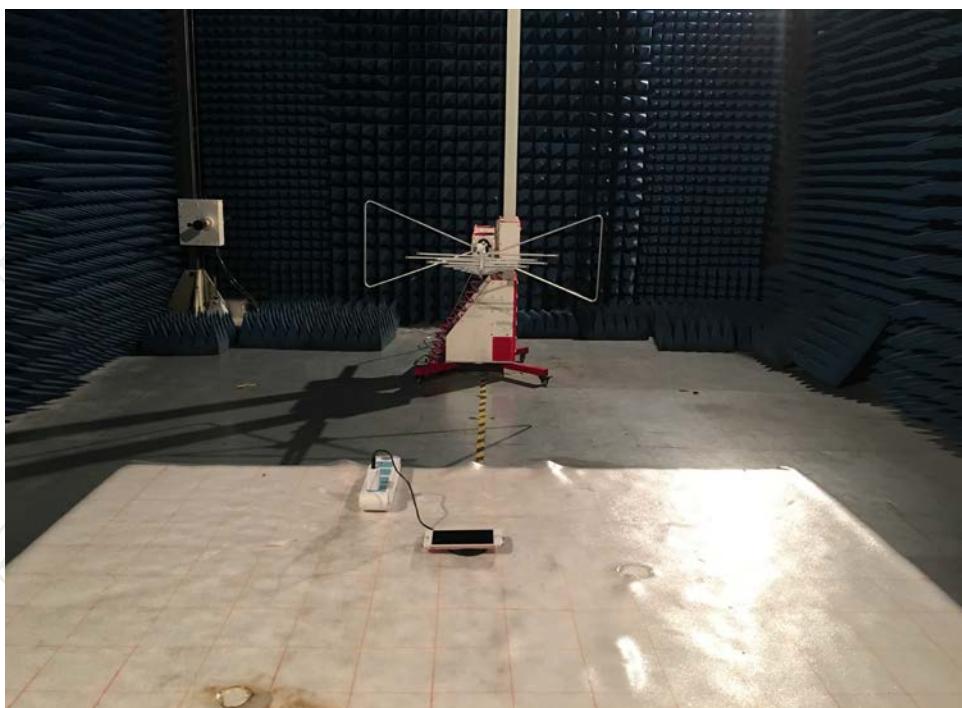
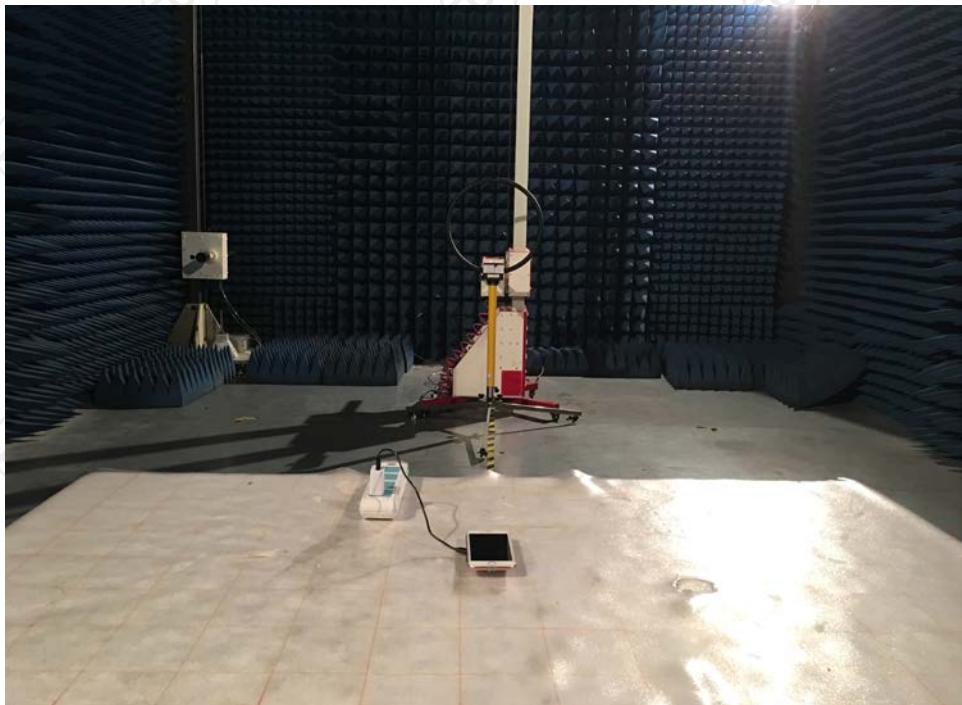
Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

Appendix A: Photographs of Test Setup

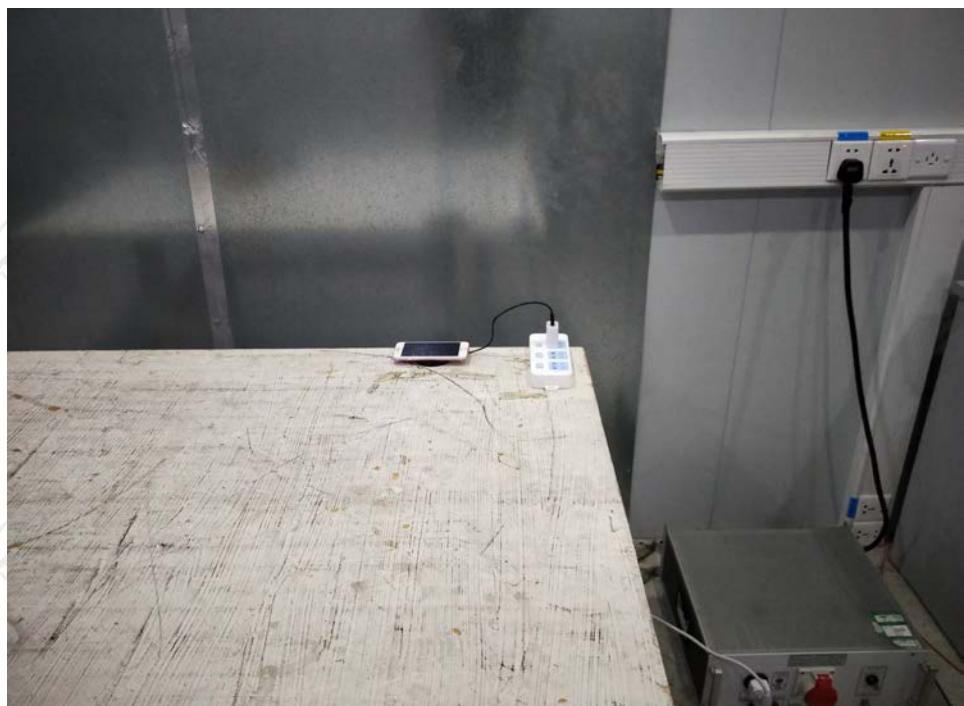
Product: Circular Wireless Charger

Model: XO-9602

Radiated Emission



Conducted Emission



Appendix B: Photographs of EUT

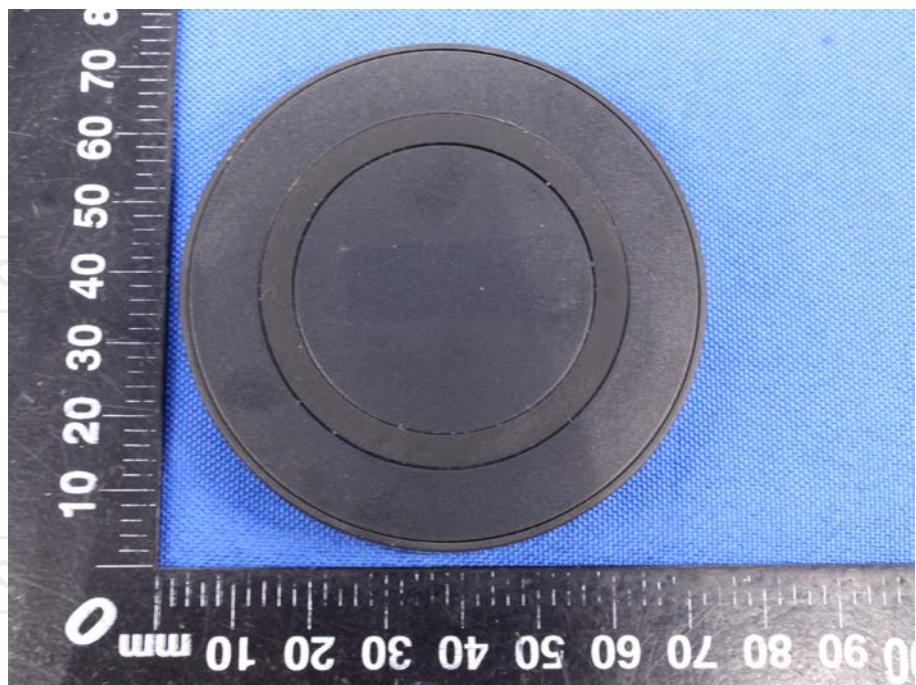
Product: Circular Wireless Charger

Model: XO-9602

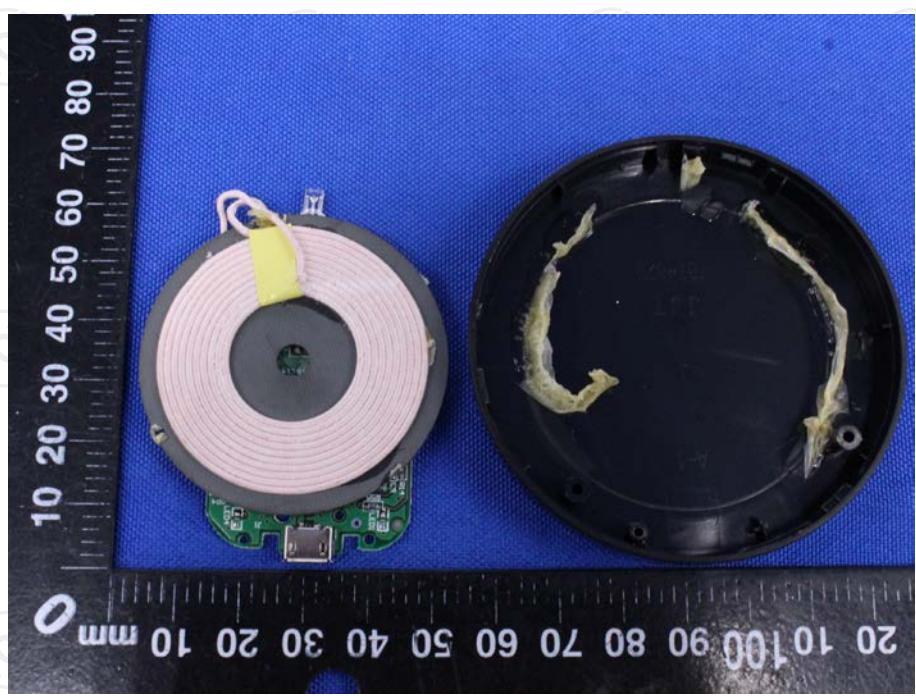
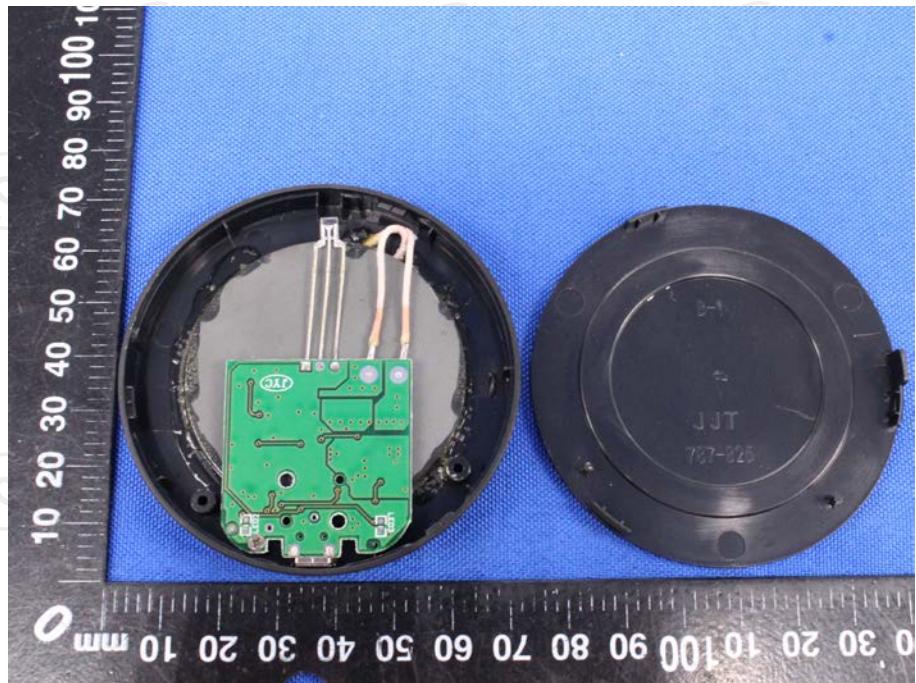
External Photos

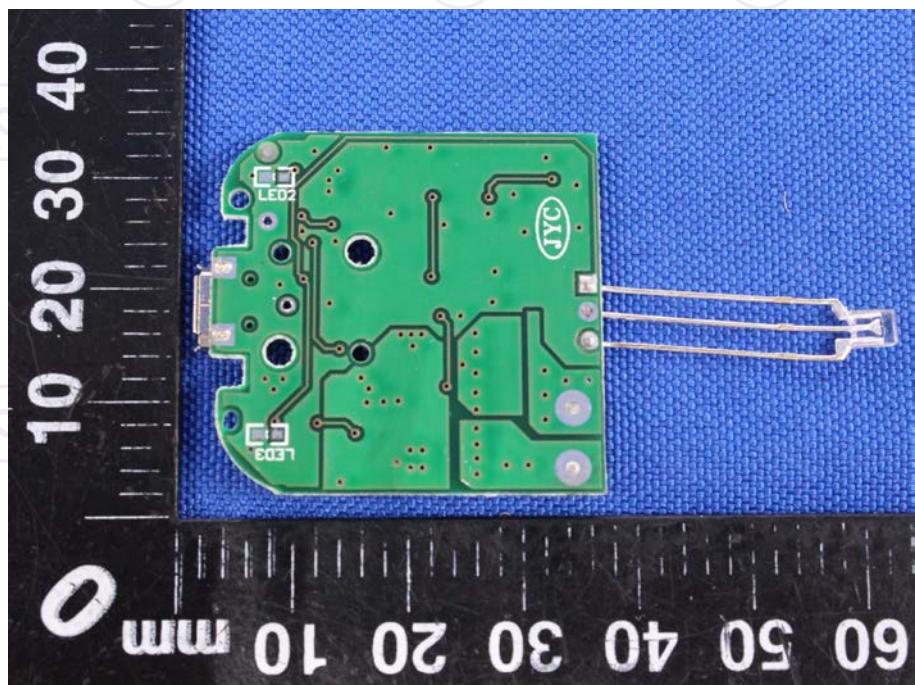
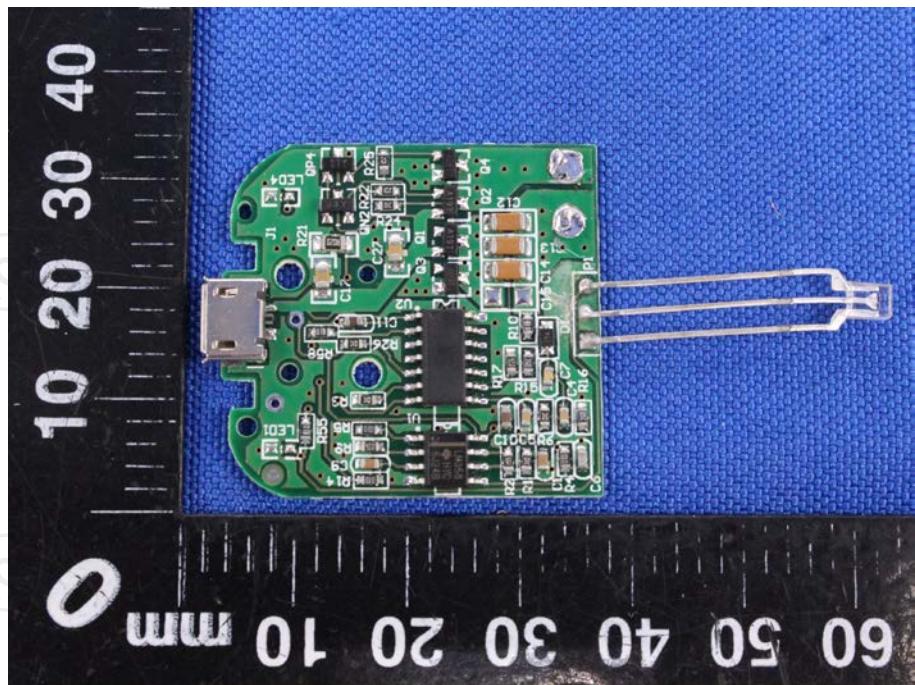


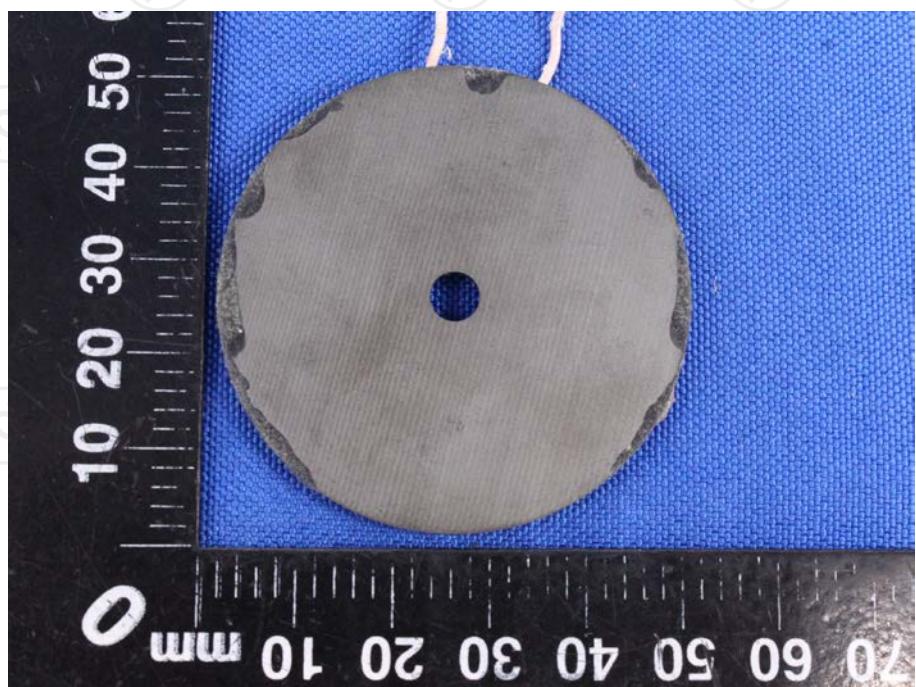
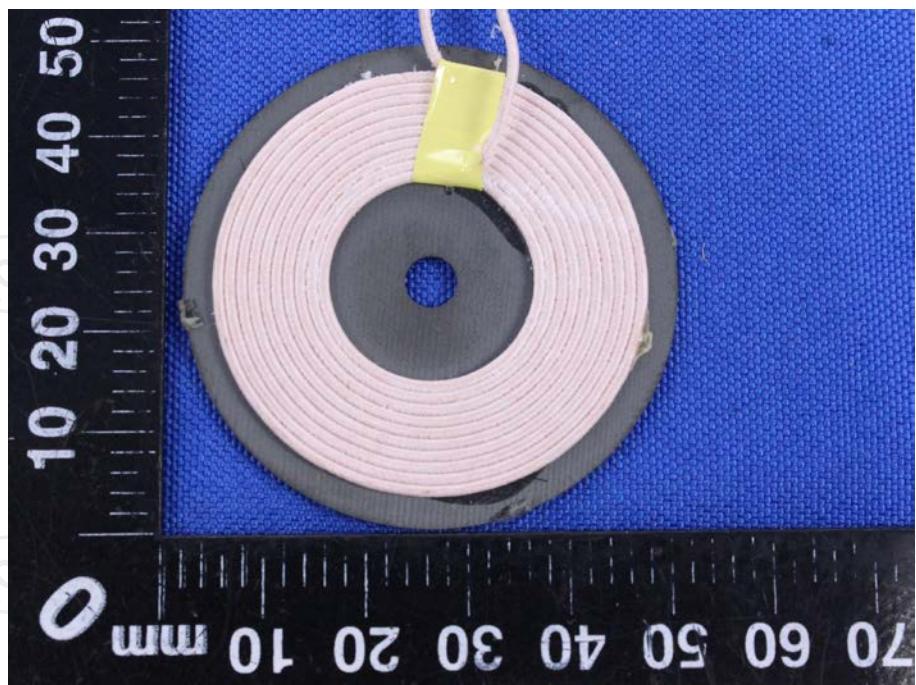




**Product: Circular Wireless Charger
Model: XO-9602
Internal Photos**







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