

### FCC REPORT

**Applicant:** LEADER PREMIUMS LIMITED  
**Address of Applicant:** 9/F., Hengfu Mansion, NO.858 Fuming Road, Ningbo, China  
**Manufacturer/Factory:** LEADER PREMIUMS LIMITED  
**Address of Manufacturer/Factory:** 9/F., Hengfu Mansion, NO.858 Fuming Road, Ningbo, China  
**Equipment Under Test (EUT)**  
Product Name: Car Wireless Charger  
Model No.: AB0030  
**FCC ID:** 2APYY-AB0030  
**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C  
**Date of sample receipt:** July 23, 2018  
**Date of Test:** July 24-30, 2018  
**Date of report issued:** July 31, 2018  
**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

**Robinson Lo**  
**Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

## 2 Version

Version No.	Date	Description
00	July 31, 2018	Original

Prepared By:

*Bill. Yuan*

Date:

July 31, 2018

**Project Engineer**

Check By:

*Andy. Wu*

Date:

July 31, 2018

**Reviewer**

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## 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Spurious Emission	15.209(a)(f)	Pass
20dB Bandwidth	15.215	Pass

*Pass: The EUT complies with the essential requirements in the standard.*

### 4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

## 5 General Information

### 5.1 General Description of EUT

Product Name:	Car Wireless Charger
Model No.:	AB0030
Serial No.:	AB0030
Test sample(s) ID:	GTS201807000195-1
Sample(s) Status	Engineer sample
Hardware:	Wirelesscharging-07
Software:	Leader.1804.01
Operation Frequency:	111.5kHz ~ 205KHz
Number of Frequency:	19 Channels
Modulation type:	MSK
Antenna Type:	Inductive loop coil Antenna
Antenna gain:	0dBi(Max)
Power supply:	Input: DC 5V, 1A by USB charge Wireless output: 5W(Max)

#### Operation Frequency each of channel

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	0.1115	06	0.140	11	0.165	16	0.190
02	0.120	07	0.145	12	0.170	17	0.195
03	0.125	08	0.150	13	0.175	18	0.200
04	0.130	09	0.155	14	0.180	19	0.205
05	0.135	10	0.160	15	0.185		

Test channel	Frequency (MHz)
CH13	0.175MHz

## 5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<p><i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i></p>	

## 5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC Approval
SAMSUNG	Mobile Phone	S7EDGE	R28H835BJ2B	SDOC
APPLE	USB Charger	A1399	N/A	SDOC

## 5.4 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>• <b>FCC —Registration No.: 381383</b> Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, January 08, 2018.</li> <li>• <b>Industry Canada (IC) —Registration No.: 9079A-2</b> The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016</li> </ul>
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## 5.5 Test Location

All tests were performed at:
<p>Global United Technology Services Co., Ltd. No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960</p>

## 5.6 Other Information Requested by the Customer

None.
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## 6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 27 2018	June. 26 2019
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June. 27 2018	June. 26 2019
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June. 27 2018	June. 26 2019
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS588	June. 27 2018	June. 26 2019
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019

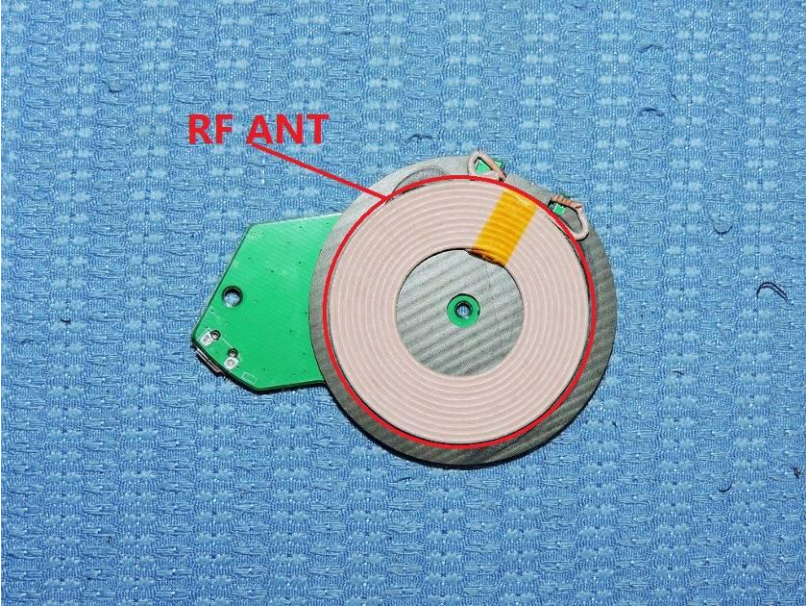
<b>Conducted Emission</b>						
<b>Item</b>	<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal.Date (mm-dd-yy)</b>	<b>Cal.Due date (mm-dd-yy)</b>
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 27 2018	June. 26 2019
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 27 2018	June. 26 2019
5	Coaxial Cable	GTS	N/A	GTS227	June. 27 2018	June. 26 2019
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 27 2018	June. 26 2019
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 27 2018	June. 26 2019

<b>General used equipment:</b>						
<b>Item</b>	<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal.Date (mm-dd-yy)</b>	<b>Cal.Due date (mm-dd-yy)</b>
1	Barometer	ChangChun	DYM3	GTS257	June 27 2018	June 26 2019
2	Thermo meter	KTJ	TA328	GTS233	June 27 2018	June 26 2019



## 7 Test results and Measurement Data

### 7.1 Antenna requirement:

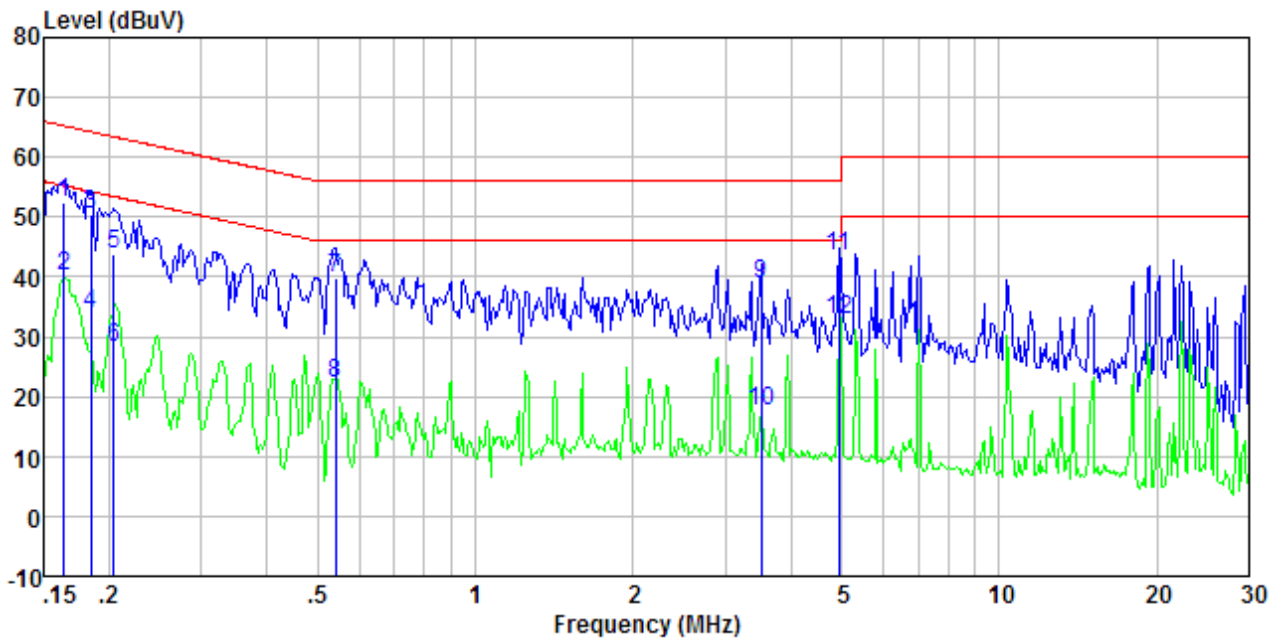
<b>Standard requirement:</b>	FCC Part15 C Section 15.203
<p><b>15.203 requirement:</b></p> <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna 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.</p>	
<p><b>EUT Antenna:</b></p>	
<p><i>The antenna is Inductive loop coil Antenna, the best case gain of the antenna is 0dBi.</i></p> 	

## 7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto														
Limit:	<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> <p>* Decreases with the logarithm of the frequency.</p>	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"> <li>1. The E.U.T and simulators are connected to the main power 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 on conducted measurement.</li> </ol>														
Test Instruments:	Refer to section 6.0 for details														
Test mode:	Refer to section 5.2 for details														
Test results:	Pass														

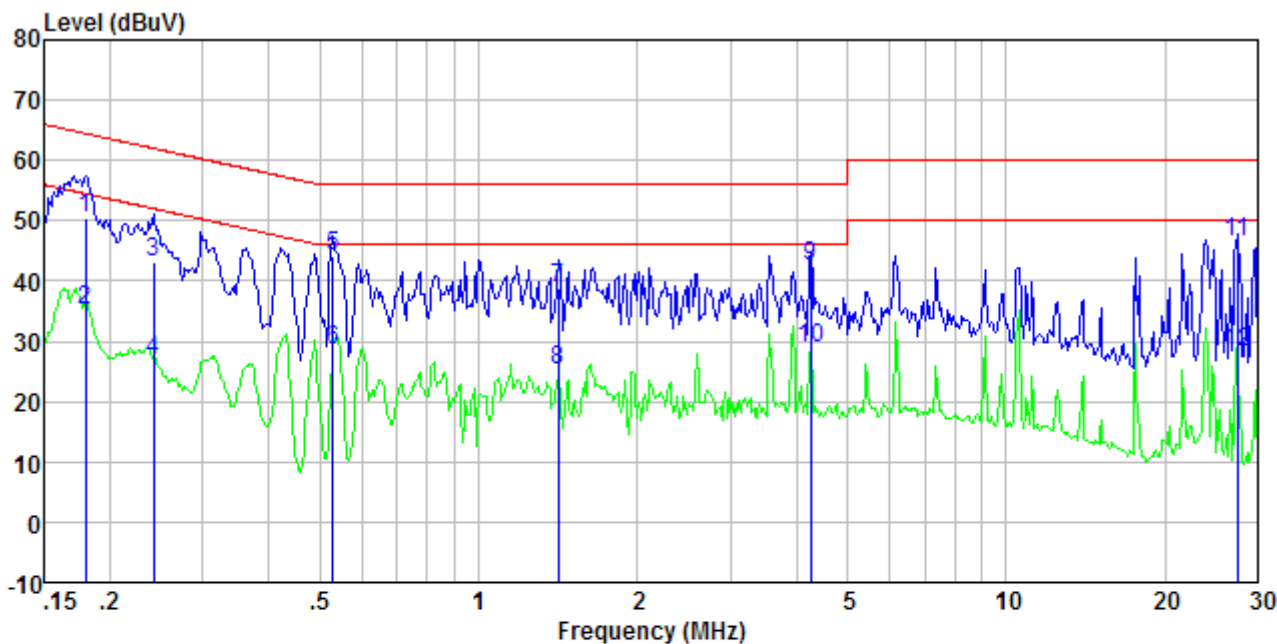
### Measurement data:

**Line**



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.16	52.09	0.40	0.08	52.57	65.25	-12.68	QP
0.16	39.59	0.40	0.08	40.07	55.25	-15.18	Average
0.18	49.88	0.40	0.10	50.38	64.28	-13.90	QP
0.18	33.24	0.40	0.10	33.74	54.28	-20.54	Average
0.20	43.17	0.40	0.11	43.68	63.45	-19.77	QP
0.20	27.69	0.40	0.11	28.20	53.45	-25.25	Average
0.54	39.34	0.30	0.11	39.75	56.00	-16.25	QP
0.54	21.71	0.30	0.11	22.12	46.00	-23.88	Average
3.51	38.49	0.20	0.18	38.87	56.00	-17.13	QP
3.51	17.25	0.20	0.18	17.63	46.00	-28.37	Average
4.95	43.23	0.20	0.17	43.60	56.00	-12.40	QP
4.95	32.46	0.20	0.17	32.83	46.00	-13.17	Average

**Neutral:**



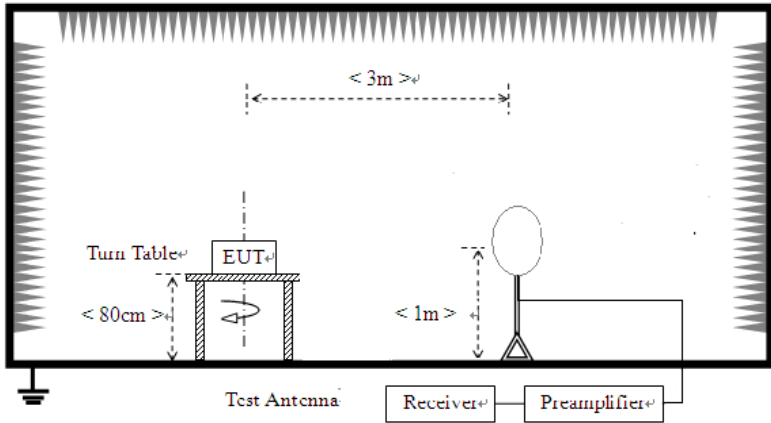
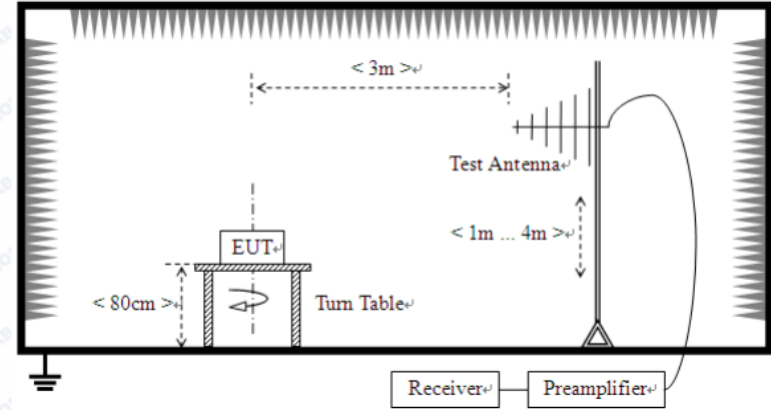
Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.18	49.97	0.40	0.10	50.47	64.50	-14.03	QP
0.18	34.56	0.40	0.10	35.06	54.50	-19.44	Average
0.24	42.77	0.40	0.11	43.28	62.04	-18.76	QP
0.24	26.34	0.40	0.11	26.85	52.04	-25.19	Average
0.53	43.71	0.31	0.11	44.13	56.00	-11.87	QP
0.53	28.05	0.31	0.11	28.47	46.00	-17.53	Average
1.42	38.62	0.20	0.16	38.98	56.00	-17.02	QP
1.42	24.75	0.20	0.16	25.11	46.00	-20.89	Average
4.27	42.03	0.20	0.18	42.41	56.00	-13.59	QP
4.27	28.52	0.20	0.18	28.90	46.00	-17.10	Average
27.42	45.93	0.38	0.23	46.54	60.00	-13.46	QP
27.42	27.53	0.38	0.23	28.14	50.00	-21.86	Average

**Notes:**

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

## 7.3 Spurious Emission

Test Requirement:	FCC Part15 C Section 15.209																															
Test Method:	ANSI C63.10:2013																															
Test Frequency Range:	9kHz to 1GHz																															
Test site:	Measurement Distance: 3m																															
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>PK,AV</td> <td>200Hz</td> <td>600Hz</td> <td>PK,AV</td> </tr> <tr> <td>150kHz- 30MHz</td> <td>PK,AV,QP</td> <td>10kHz</td> <td>30kHz</td> <td>PK,AV,QP</td> </tr> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>120kHz</td> <td>300kHz</td> <td>Quasi-peak Value</td> </tr> </tbody> </table> <p>Remark: For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission test in these three bands are based on measurements employing an average detector.</p>	Frequency	Detector	RBW	VBW	Remark	9kHz- 150KHz	PK,AV	200Hz	600Hz	PK,AV	150kHz- 30MHz	PK,AV,QP	10kHz	30kHz	PK,AV,QP	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value											
Frequency	Detector	RBW	VBW	Remark																												
9kHz- 150KHz	PK,AV	200Hz	600Hz	PK,AV																												
150kHz- 30MHz	PK,AV,QP	10kHz	30kHz	PK,AV,QP																												
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value																												
Limit: (Spurious Emissions)	<p><b>Limits for frequency below 30MHz</b></p> <table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (uV/m)</th> <th>Measurement Distance(m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>0.009-0.490</td> <td>2400/F(kHz)</td> <td>300</td> <td>Quasi-peak Value</td> </tr> <tr> <td>0.490-1.705</td> <td>24000/F(kHz)</td> <td>30</td> <td>Quasi-peak Value</td> </tr> <tr> <td>1.705-30</td> <td>30</td> <td>30</td> <td>Quasi-peak Value</td> </tr> </tbody> </table> <p><b>Limits for frequency Above 30MHz</b></p> <table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.00</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.50</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.00</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.00</td> <td>Quasi-peak Value</td> </tr> </tbody> </table> <p>Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p>	Frequency	Limit (uV/m)	Measurement Distance(m)	Remark	0.009-0.490	2400/F(kHz)	300	Quasi-peak Value	0.490-1.705	24000/F(kHz)	30	Quasi-peak Value	1.705-30	30	30	Quasi-peak Value	Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.00	Quasi-peak Value	88MHz-216MHz	43.50	Quasi-peak Value	216MHz-960MHz	46.00	Quasi-peak Value	960MHz-1GHz	54.00	Quasi-peak Value
Frequency	Limit (uV/m)	Measurement Distance(m)	Remark																													
0.009-0.490	2400/F(kHz)	300	Quasi-peak Value																													
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value																													
1.705-30	30	30	Quasi-peak Value																													
Frequency	Limit (dBuV/m @3m)	Remark																														
30MHz-88MHz	40.00	Quasi-peak Value																														
88MHz-216MHz	43.50	Quasi-peak Value																														
216MHz-960MHz	46.00	Quasi-peak Value																														
960MHz-1GHz	54.00	Quasi-peak Value																														
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li> </ol>																															

<p>Test setup:</p>	<p>Below 30MHz</p>  <p>30MHz ~ 1000MHz</p> 
<p>Test Instruments:</p>	<p>Refer to section 6.0 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.2 for details</p>
<p>Test results:</p>	<p>Pass</p>

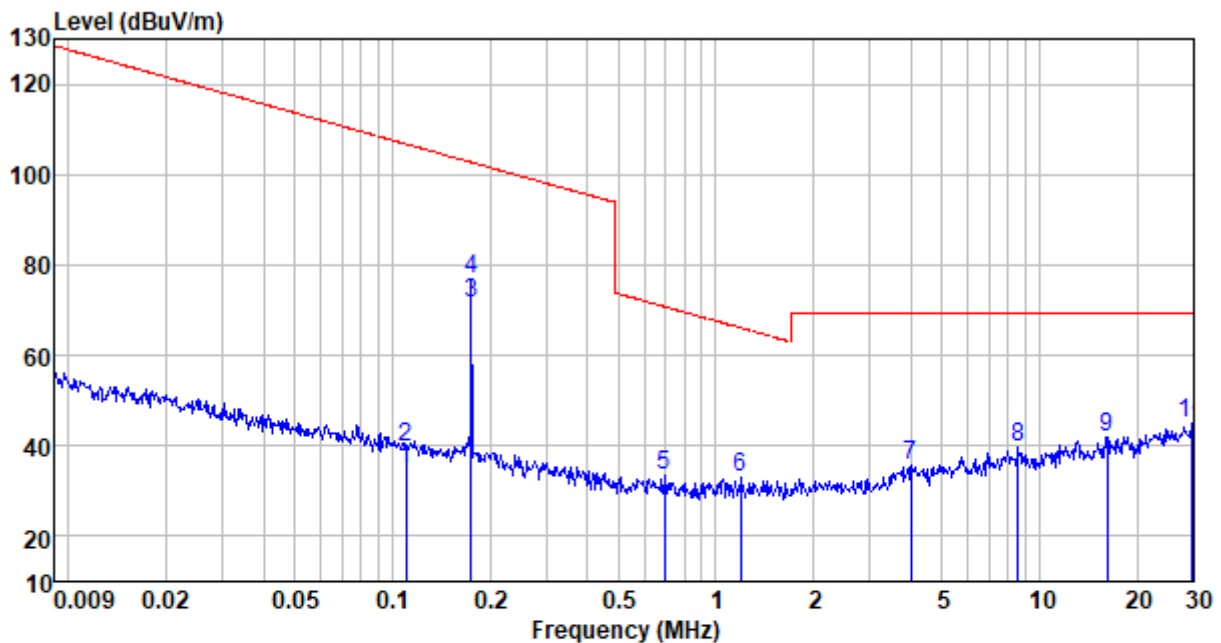
**Measurement data:**

**Measurement data:**

**Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80**

**Limit dBuV/m @3m = Limit dBuV/m @30m + 40**

**9 kHz~30 MHz**

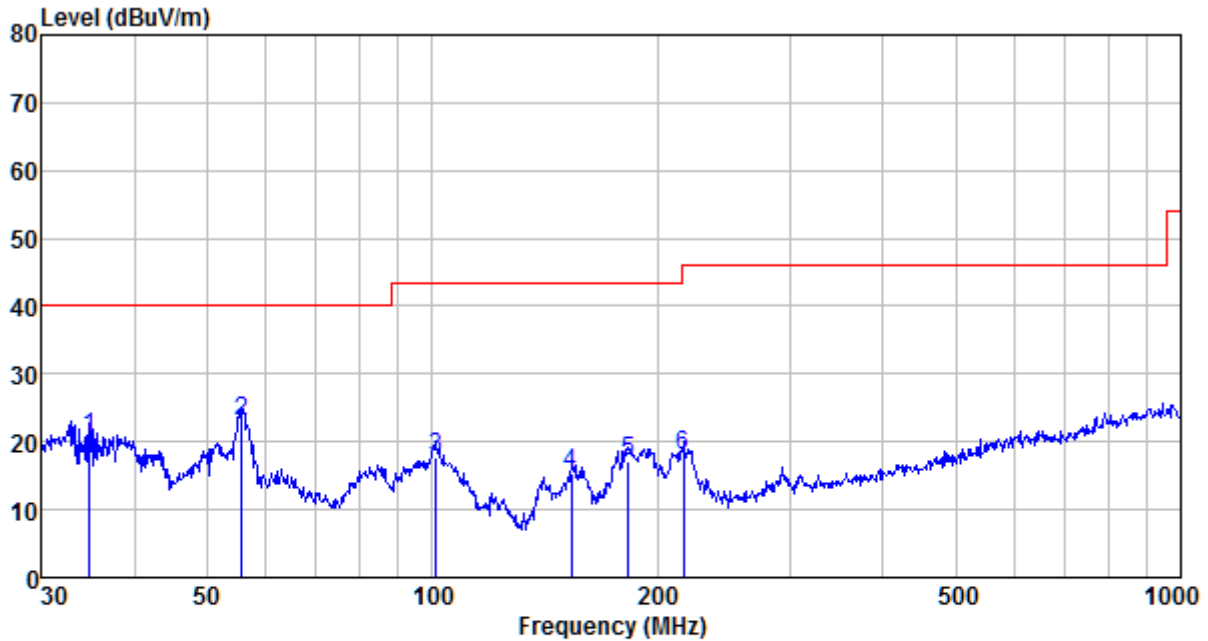


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
0.110	10.42	24.12	0.17	0.00	34.71	106.78	-72.07	Average
0.110	15.59	24.12	0.17	0.00	39.88	106.78	-66.90	Peak
0.175	48.71	22.54	0.20	0.00	71.45	102.73	-31.28	Average
0.175	54.09	22.54	0.20	0.00	76.83	102.73	-25.90	Peak
0.696	12.34	20.62	0.30	0.00	33.26	70.75	-37.49	Peak
1.189	11.65	20.93	0.34	0.00	32.92	66.11	-33.19	Peak
4.013	13.71	21.50	0.42	0.00	35.63	69.54	-33.91	Peak
8.602	16.07	23.12	0.47	0.00	39.66	69.54	-29.88	Peak
16.195	17.33	24.09	0.52	0.00	41.94	69.54	-27.60	Peak
29.517	16.00	28.37	0.56	0.00	44.93	69.54	-24.61	Peak



## 30MHz~1GHz

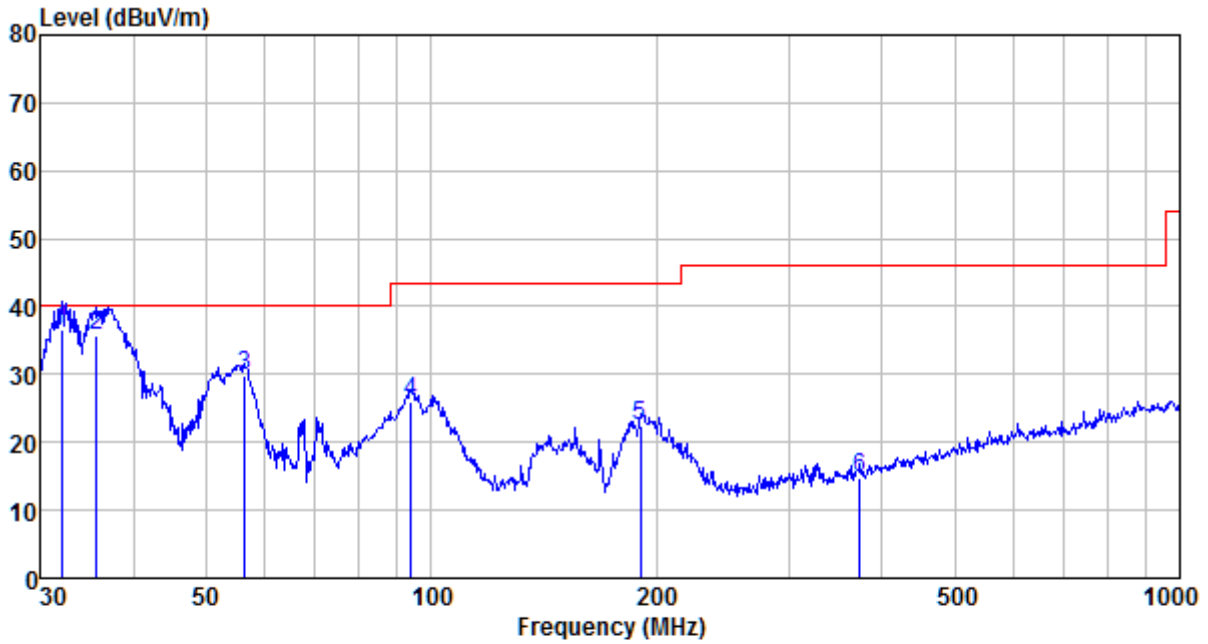
Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
34.882	44.21	11.30	0.61	35.35	20.77	40.00	-19.23	QP
55.609	46.76	11.73	0.82	36.26	23.05	40.00	-16.95	QP
101.289	41.34	12.04	1.20	36.73	17.85	43.50	-25.65	QP
153.200	42.98	7.85	1.59	37.10	15.32	43.50	-28.18	QP
182.559	43.55	9.15	1.75	37.25	17.20	43.50	-26.30	QP
216.783	42.40	11.02	1.94	37.35	18.01	46.00	-27.99	QP

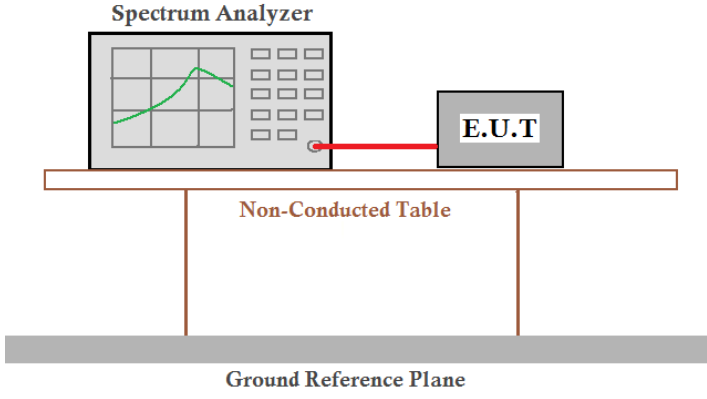


Vertical



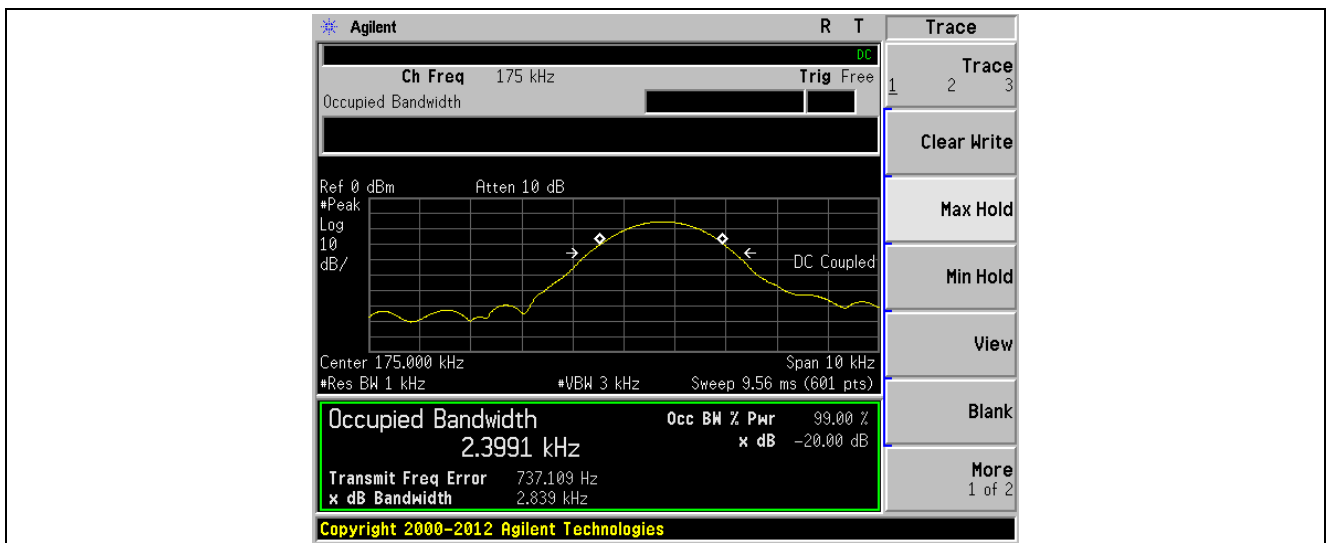
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
32.179	59.99	11.25	0.58	35.16	36.66	40.00	-3.34	QP
35.749	59.10	11.46	0.62	35.41	35.77	40.00	-4.23	QP
56.395	53.48	11.65	0.83	36.27	29.69	40.00	-10.31	QP
94.098	50.11	11.31	1.14	36.67	25.89	43.50	-17.61	QP
190.405	47.95	9.90	1.79	37.29	22.35	43.50	-21.15	QP
373.311	34.73	14.89	2.73	37.50	14.85	46.00	-31.15	QP

## 7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.215
Test Method:	ANSI C63.10:2013
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

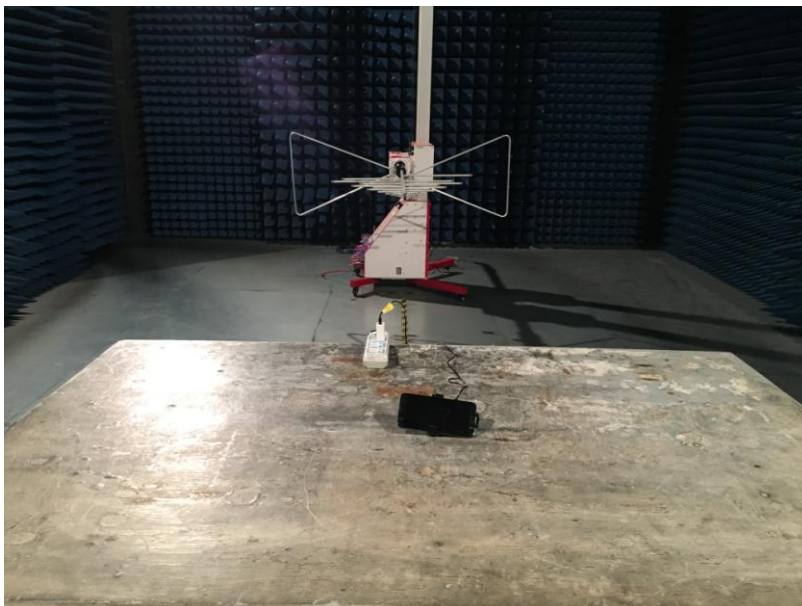
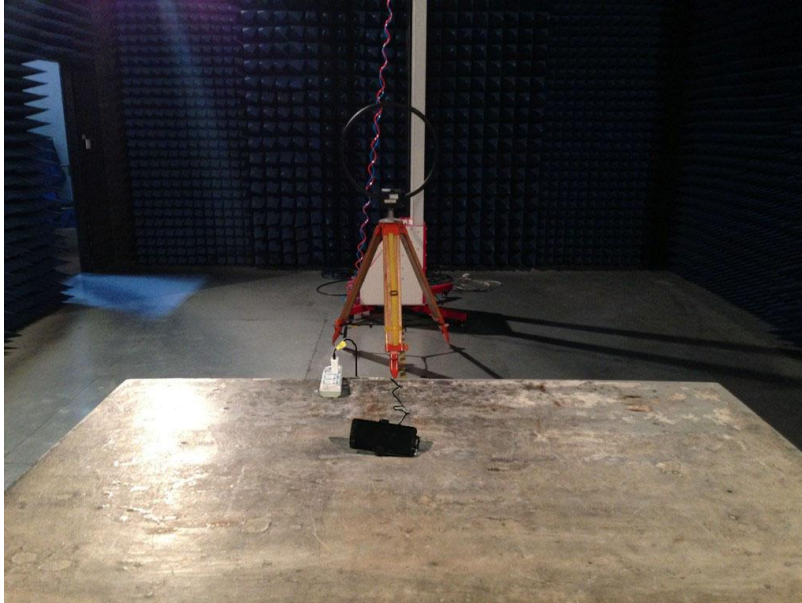
### Measurement Data

Test frequency (kHz)	20dB bandwidth (KHz)	Result
175.00	2.839	Pass



## 8 Test Setup Photo

Radiated Emission



## Conducted Emission

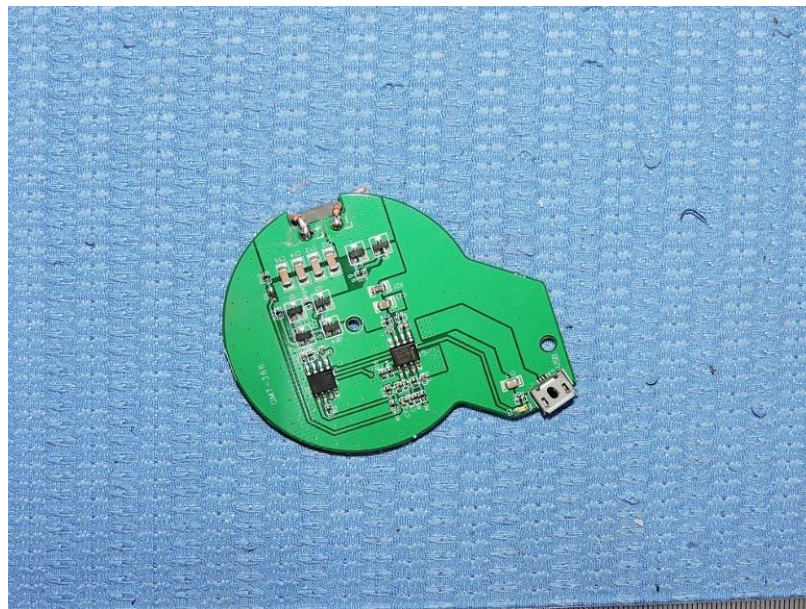
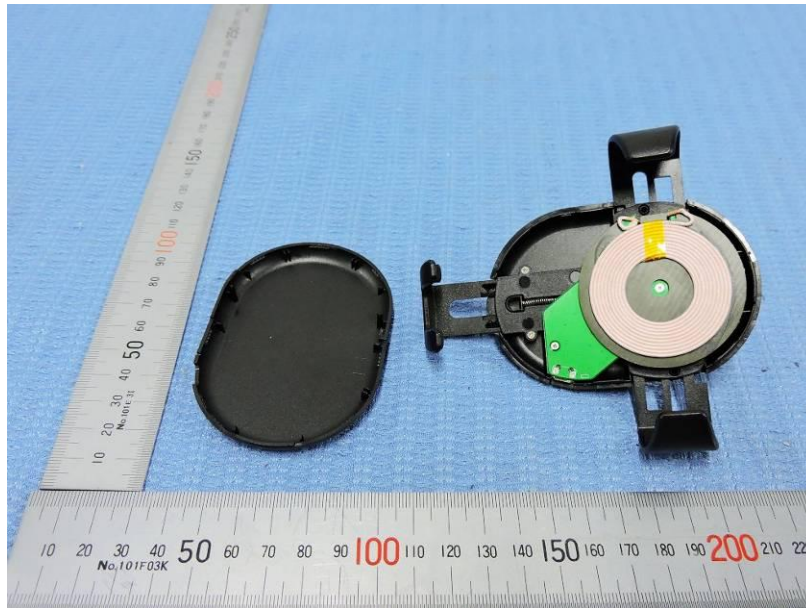


## 9 EUT Constructional Details

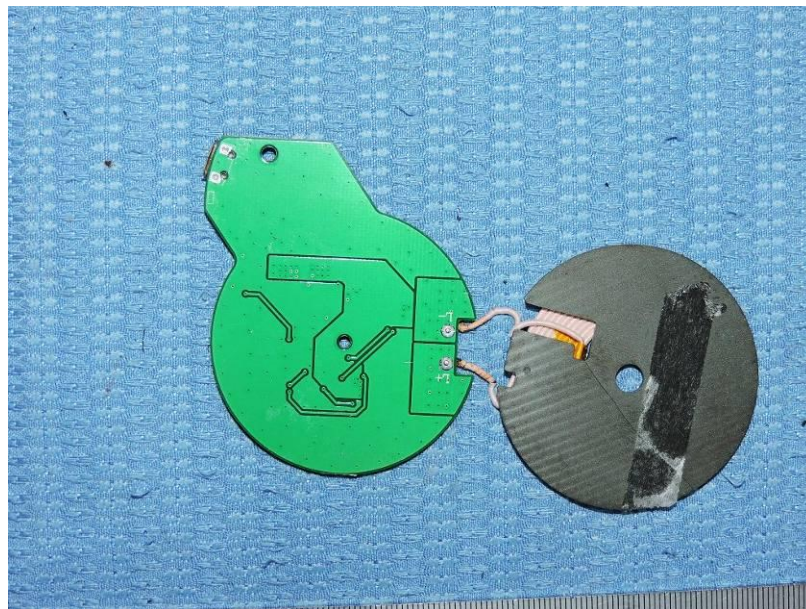
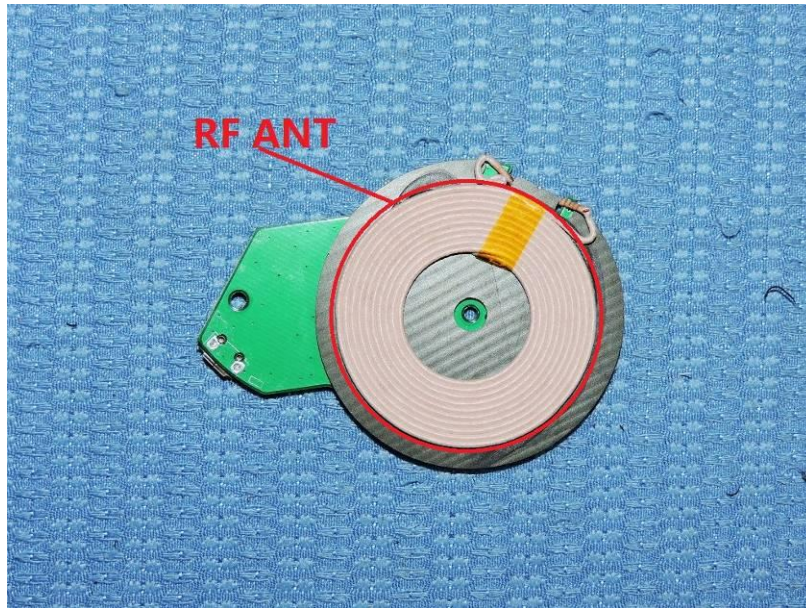












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