

## FCC Report (NFC)

**Applicant:** Magtek Incorporated

**Address of Applicant:** 1710 Apollo Court, seal beach, California 90740, United States

**Manufacturer/Factory:** Magtek Incorporated

**Address of Manufacturer/Factory:** 1710 Apollo Court, seal beach, California 90740, United States

### Equipment Under Test (EUT)

**Product Name:** kDynamo

**Model No.:** 21097101, 21097102, 21097103

**Trade Mark:** MAGTEK

**FCC ID:** U73-21097101A0

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.225

**Date of sample receipt:** June 11, 2018

**Date of Test:** June 12-19, 2018

**Date of report issued:** June 20, 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	June 20, 2018	Original

Prepared By:

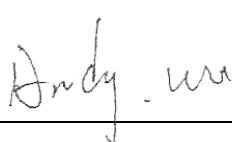


Date:

June 20, 2018

Project Engineer

Check By:



Date:

June 20, 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
Field Strength of Fundamental Emissions and Mask Measurement	15.225(a)(b)(c)	Pass
Radiated Emission	15.225(d)&15.209	Pass
20dB Emission Bandwidth	15.225&15.215	Pass
Frequency Stability Measurement	15.225(e)	Pass

Remark:

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)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(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:	kDynamo
Model No.:	21097101, 21097102, 21097103
Test Model No.:	21097101
<i>Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are color and model name for commercial purpose</i>	
Serial No.:	B398F37
Test sample(s) ID:	GTS201806000076-1
Sample(s) Status	Engineered sample
Hardware:	Kdynamo_MB V08A
Software:	Kdynamo-C-20171108
Operation Frequency:	13.56MHz
Channel Number:	1
Modulation:	ASK
Antenna type:	Integral Antenna
Antenna gain:	2.0dBi
Power supply:	Battery: DC 3.7V, 760mAh Output: DC 5V,2.4A Rated: DC 5V,3A

## 5.2 Test mode

Transmitter mode	Keep the EUT in continuously transmitting.					
<b>Pre-test mode.</b>						
GTS has verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:						
Axis	X	Y	Z			
Field Strength(dBuV/m)	56.91	57.34	56.73			
<b>Final Test Mode:</b>						
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”: Y axis (see the test setup photo)						

## 5.3 Test Facility

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

- **FCC —Registration No.: 381383**

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.

- **Industry Canada (IC) —Registration No.: 9079A-2**

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.

## 5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 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

## 5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number
AoHai	USB Charger	A68-502000	N/A
Apple	iPad Air	A1474	DLXMH267FK11

## 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 28 2017	June 27 2018
4	Loop Antenna	Zhinan	ZN30900A	GTS215	June. 28 2017	June. 27 2018
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 28 2017	June 27 2018
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2017	June 27 2018
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June 28 2017	June 27 2018
9	Coaxial Cable	GTS	N/A	GTS211	June 28 2017	June 27 2018
10	Coaxial cable	GTS	N/A	GTS210	June 28 2017	June 27 2018
11	Coaxial Cable	GTS	N/A	GTS212	June 28 2017	June 27 2018
12	Amplifier (100kHz-3GHz)	HP	8347A	GTS204	June 28 2017	June 27 2018

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
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. 28 2017	June. 27 2018
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 28 2017	June. 27 2018
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 28 2017	June. 27 2018
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

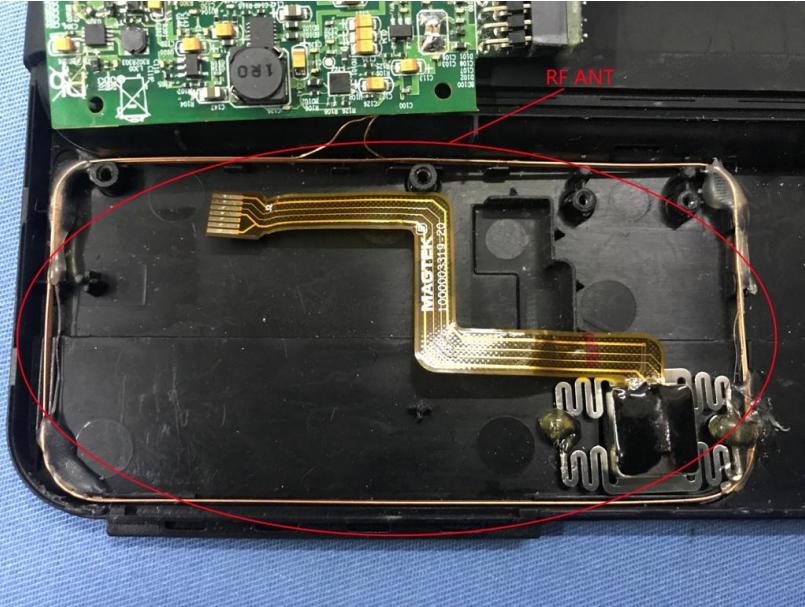
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	June 28 2017	June 27 2018
2	Thermo meter	KTJ	TA328	GTS233	June 28 2017	June 27 2018

## 7 Test results and Measurement Data

### 7.1 Antenna requirement:

<b>Standard requirement:</b>	FCC Part15 C Section 15.203
<b>15.203 requirement:</b>	
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.	
<b>E.U.T Antenna:</b>	

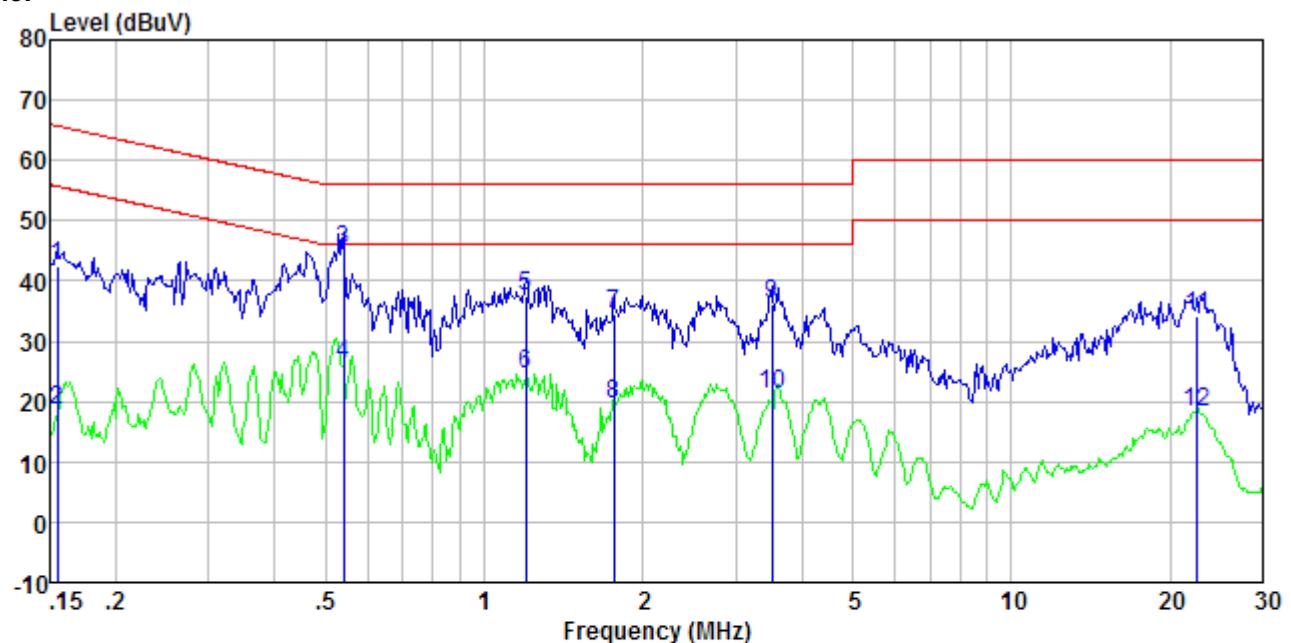
*The antenna is integral antenna, the best case gain of the antenna is 2.0dBi*



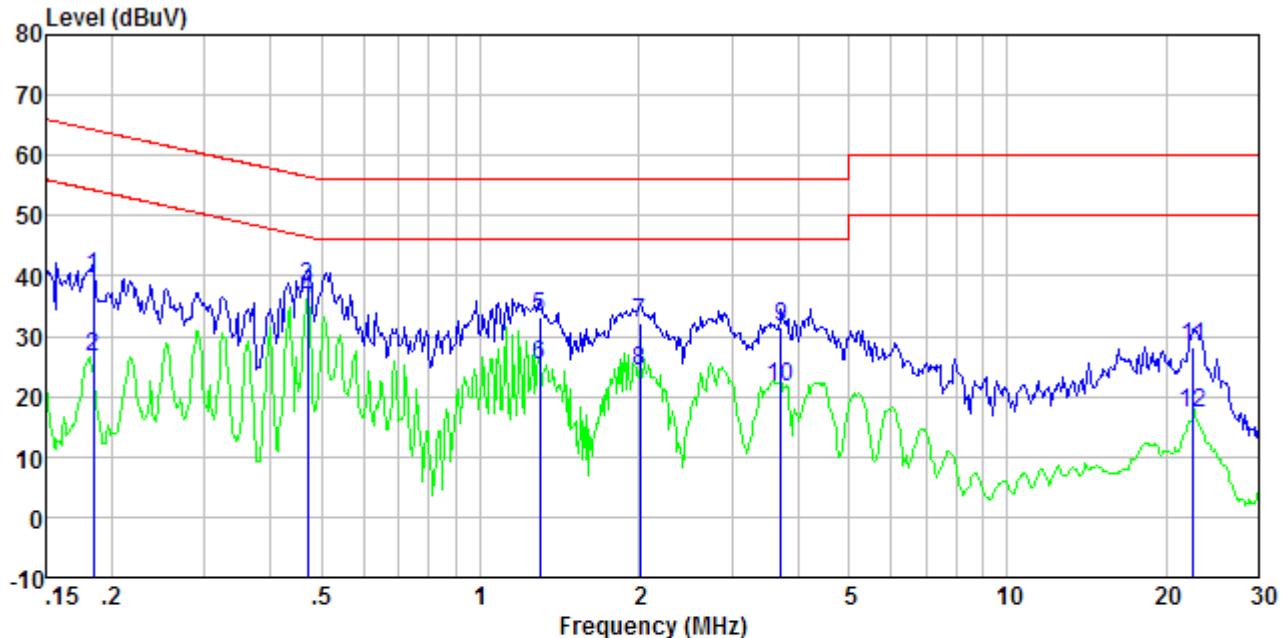
## 7.2 Conducted Emissions

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>			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															
	<p>* Decreases with the logarithm of the frequency.</p>																
Test setup:	<p>Reference Plane</p> <p>LISN</p> <p>40cm</p> <p>80cm</p> <p>AUX Equipment</p> <p>E.U.T</p> <p>Test table/Insulation plane</p> <p>EMI Receiver</p> <p>Filter</p> <p>AC power</p> <p>Remark 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 C63.10:2013 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
0.15	42.14	0.40	0.07	42.61	65.74	-23.13	QP
0.15	18.14	0.40	0.07	18.61	55.74	-37.13	Average
0.54	44.65	0.30	0.11	45.06	56.00	-10.94	QP
0.54	25.65	0.30	0.11	26.06	46.00	-19.94	Average
1.20	37.11	0.20	0.16	37.47	56.00	-18.53	QP
1.20	24.11	0.20	0.16	24.47	46.00	-21.53	Average
1.76	34.28	0.20	0.17	34.65	56.00	-21.35	QP
1.76	19.28	0.20	0.17	19.65	46.00	-26.35	Average
3.51	35.86	0.20	0.18	36.24	56.00	-19.76	QP
3.51	20.86	0.20	0.18	21.24	46.00	-24.76	Average
22.54	33.72	0.33	0.23	34.28	60.00	-25.72	QP
22.54	17.72	0.33	0.23	18.28	50.00	-31.72	Average

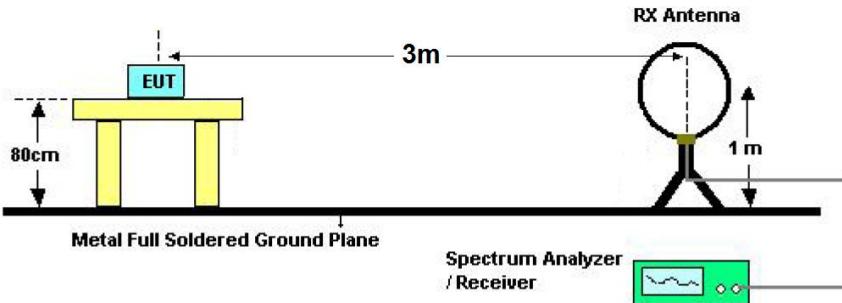
**Neutral:**


Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.18	39.17	0.40	0.10	39.67	64.28	-24.61	QP
0.18	26.17	0.40	0.10	26.67	54.28	-27.61	Average
0.47	37.70	0.32	0.11	38.13	56.49	-18.36	QP
0.47	35.70	0.32	0.11	36.13	46.49	-10.36	Average
1.30	32.82	0.20	0.16	33.18	56.00	-22.82	QP
1.30	24.82	0.20	0.16	25.18	46.00	-20.82	Average
2.01	31.86	0.20	0.18	32.24	56.00	-23.76	QP
2.01	23.86	0.20	0.18	24.24	46.00	-21.76	Average
3.72	31.17	0.20	0.18	31.55	56.00	-24.45	QP
3.72	21.17	0.20	0.18	21.55	46.00	-24.45	Average
22.54	27.52	0.33	0.23	28.08	60.00	-31.92	QP
22.54	16.52	0.33	0.23	17.08	50.00	-32.92	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

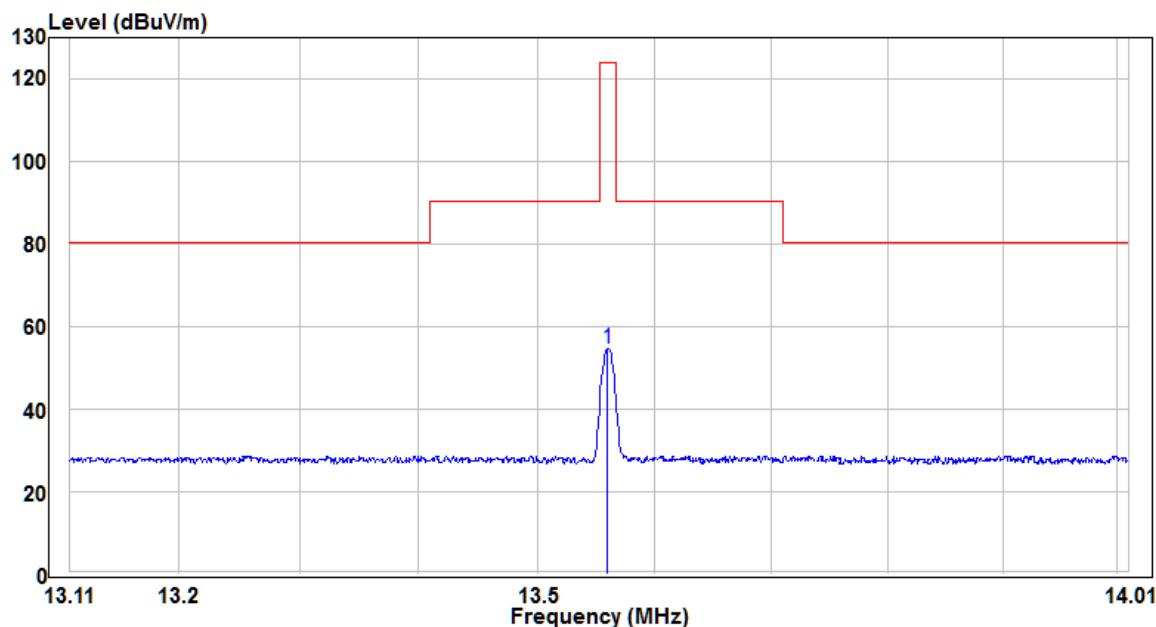
### 7.3 Field Strength of Fundamental Emissions and Mask Measurement

Test Requirement:	FCC Part15 C Section 15.225(a)(b)(c)		
Test Method:	ANSI C63.10:2013		
Test site:	Measurement Distance: 3m		
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=Auto		
limit:	Frequency (MHz)	Field Strength (microvolts/meter) at 30m	Field Strength (dBuV/m) at 3m
	1.705~13.110	30	69.5
	13.110~13.410	106	80.5
	13.410~13.553	334	90.5
	13.553~13.567	15848	124.0
	13.567~13.710	334	90.5
	13.710~14.010	106	80.5
Test setup:			
	<ol style="list-style-type: none"> <li>Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.</li> <li>Power on the EUT, the turntable was rotated by 360 degrees to determine the position of the highest radiation.</li> <li>The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.</li> <li>For Fundamental emissions, use the receiver to measure QP reading.</li> <li>When the radiated emissions limits are expressed in terms of the average value of the emissions and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.</li> <li>Compliance with the spectrum mask is tested using a spectrum</li> </ol>		

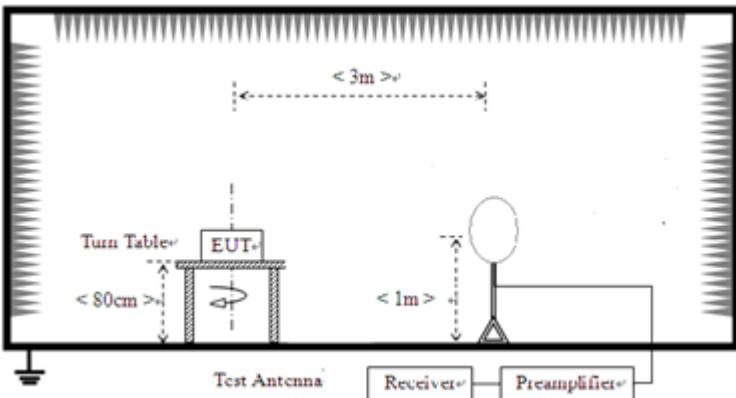
	analyzer with RB set to a 1KHz for the band 13.553~13.567MHz.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

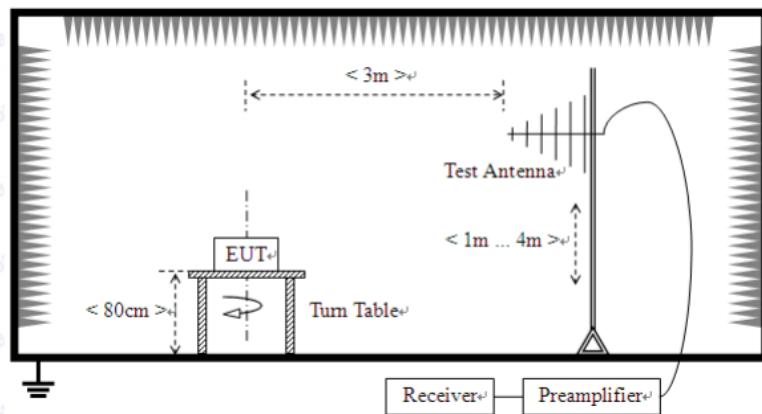
Measurement data:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark
13.56	32.13	24.70	0.51	57.34	124.00	-66.66	QP



## 7.4 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.225(d) and 15.209							
Test Method:	ANSI C63.10: 2013							
Test Frequency Range:	9KHz to 1000MHz							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Remark			
	9kHz-150kHz	Quasi-peak	200Hz	300Hz	Quasi-peak Value			
	150kHz-30MHz	Quasi-peak	9kHz	10kHz	Quasi-peak Value			
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value			
Limit:	All out of band emissions appearing in a restricted band as specified in Section 15.225 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.							
	Frequency (MHz)	Field strength (microvolt/meter)	Measurement distance (meters)					
	0.009~0.490	2400/F(KHz)	300					
	0.490~1.705	24000/F(KHz)	30					
	1.705~30	30	30					
	30~88	100	3					
	88~216	150	3					
	216~960	200	3					
	960~1000	500	3					
Test setup:	Below 30MHz							
								
	Above 30MHz							



Test Procedure:	<ol style="list-style-type: none"> <li>Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.</li> <li>Power on the EUT, the turntable was rotated by 360 degrees to determine the position of the highest radiation.</li> <li>The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.</li> <li>For each suspected emissions, the antenna tower was scan (from 1M to 4M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.</li> <li>Set the test-receiver system to Peak or CISPR quasi-peak detect function with specified bandwidth under maximum hold mode.</li> <li>When the radiated emissions limits are expressed in terms of the average value of the emissions and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.</li> <li>In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver.</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:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

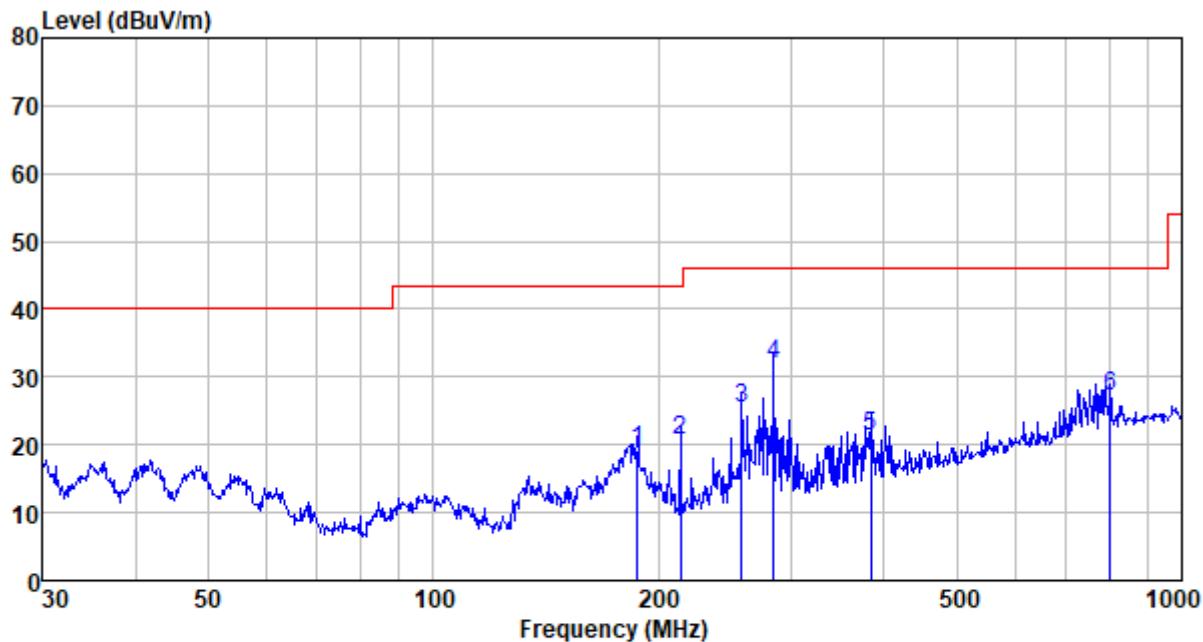
Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China

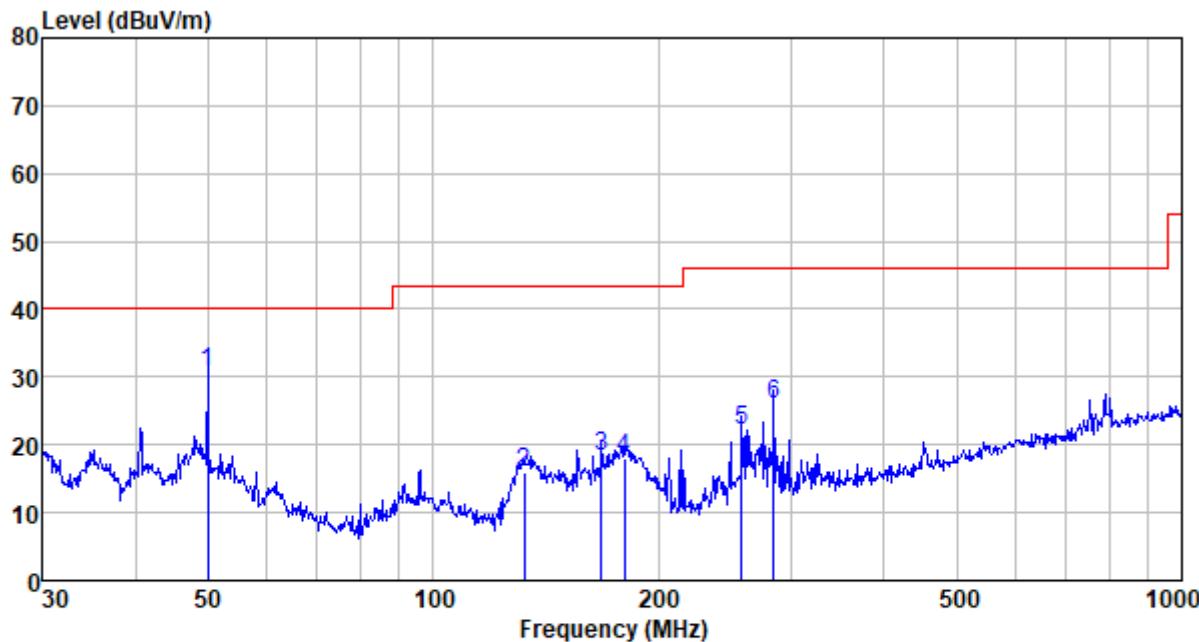
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

Horizontal:



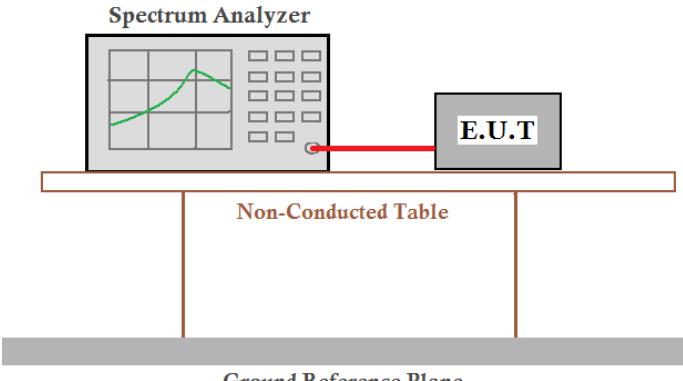
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
187.096	45.15	9.57	1.78	37.27	19.23	43.50	-24.27	QP
213.763	45.12	10.91	1.92	37.34	20.61	43.50	-22.89	QP
258.326	48.17	12.44	2.16	37.39	25.38	46.00	-20.62	QP
284.977	53.68	13.20	2.29	37.41	31.76	46.00	-14.24	QP
383.932	41.01	15.08	2.78	37.51	21.36	46.00	-24.64	QP
801.786	38.83	21.40	4.46	37.62	27.07	46.00	-18.93	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
49.881	53.79	12.30	0.77	36.17	30.69	40.00	-9.31	QP
132.221	43.31	8.01	1.45	36.97	15.80	43.50	-27.70	QP
167.824	45.28	8.46	1.67	37.18	18.23	43.50	-25.27	QP
180.017	44.50	8.90	1.74	37.24	17.90	43.50	-25.60	QP
258.326	44.99	12.44	2.16	37.39	22.20	46.00	-23.80	QP
284.977	47.99	13.20	2.29	37.41	26.07	46.00	-19.93	QP

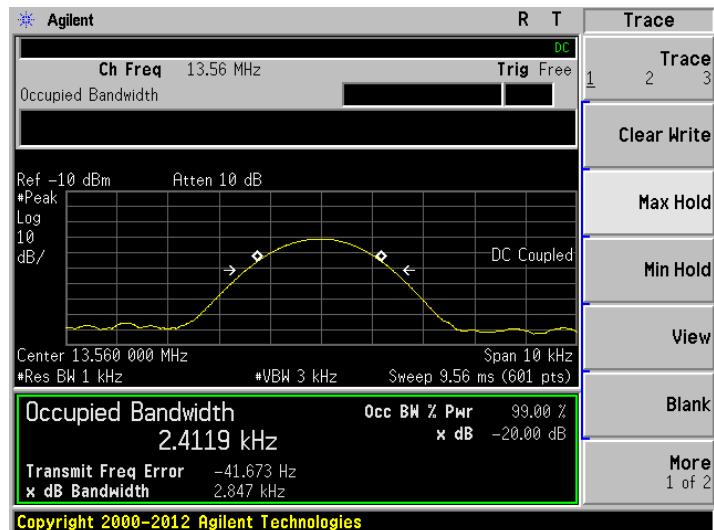
## 7.5 20dB Emission Bandwidth

Test Requirement:	FCC Part15 C Section 15.225 and 15.215
Test Method:	ANSI C63.10:2013
Limit:	N/A
Test Procedure:	<ol style="list-style-type: none"><li>1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li><li>2. Set the EUT to proper test channel.</li><li>3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points.</li><li>4. Read 20dB bandwidth.</li></ol>
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 (MHz)	20dB bandwidth (KHz)	Result
13.56	2.847	Pass

**Test plot as follows:**



## 7.6 Frequency Stability Measurement

Test Requirement:	FCC Part15 C Section 15.225 (e)
Test Method:	ANSI C63.10: 2013
Receiver setup:	RBW=1KHz, VBW=1KHz, Sweep time=Auto
Limit:	<p>The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency</p> <p>over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage,</p> <p>for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.</p> <p>For battery operated equipment, the equipment tests shall be performed using a new battery.</p>
Test setup:	<p>The diagram illustrates the test setup. A green rectangular box labeled 'Spectrum Analyzer' is connected to a yellow rectangular box labeled 'EUT' (Equipment Under Test) via a cable. The 'EUT' is situated within a blue rectangular box labeled 'OVEN'.</p>
Test Procedure:	<ol style="list-style-type: none"> <li>1. The transmitter output (antenna port) was connected to the spectrum analyzer.</li> <li>2. EUT have transmitted absence of modulation signal and fixed channelize</li> <li>3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.</li> <li>4. Set RBW=1KHz, VBW=1KHz with peak detector and maxhold settings.</li> <li>5. fc is declaring of channel frequency. Then the frequency error formula is <math>(fc-f)/fc \times 10^6</math> ppm and the limit is less than <math>\pm 100</math> ppm.</li> <li>6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value</li> <li>7. Extreme temperature rule is <math>-20^{\circ}\text{C} \sim 50^{\circ}\text{C}</math></li> </ol>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

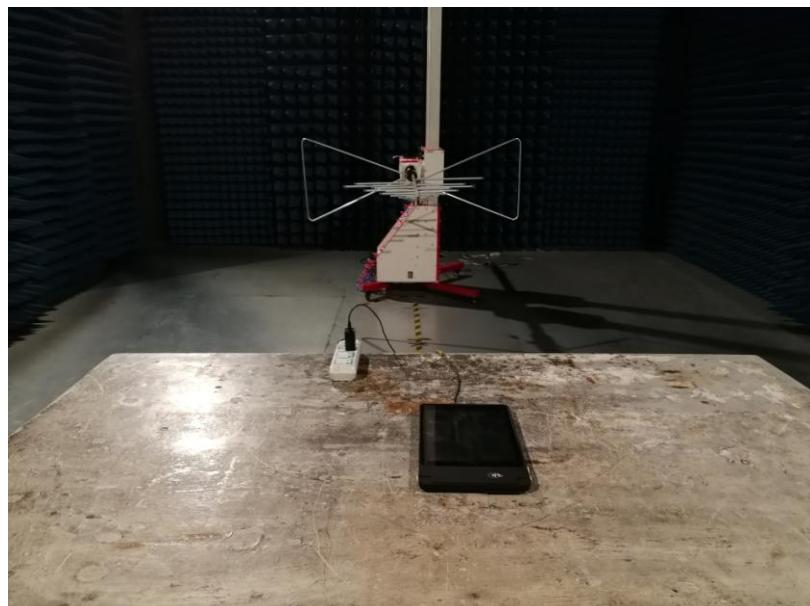
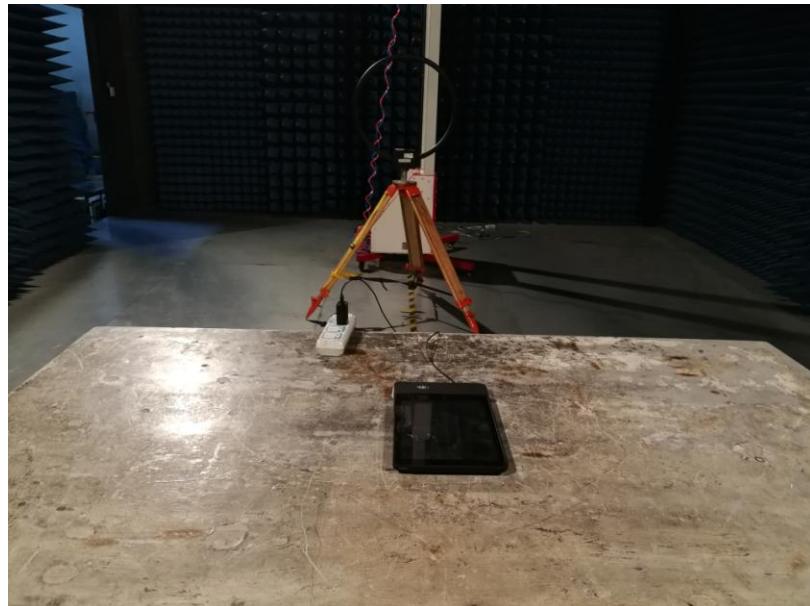
Measurement data:

Reference Frequency: 13.56MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit	Result
		Hz	%		
3.7	-20	85	0.00063%	+/- 0.01%	Pass
	-10	77	0.00057%		
	0	62	0.00046%		
	10	79	0.00058%		
	20	68	0.00050%		
	30	75	0.00055%		
	40	73	0.00054%		
	50	79	0.00058%		

Reference Frequency: 13.56MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit	Result
		Hz	ppm		
20	3.145	74	0.00055%	+/- 0.01%	Pass
	3.7	83	0.00061%		
	4.255	89	0.00066%		

## 8 Test Setup Photo

Radiated Emission

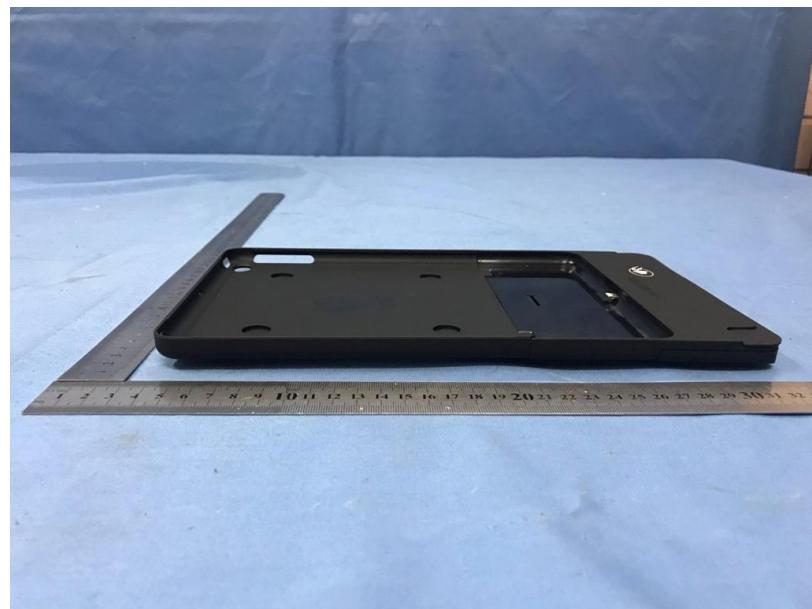


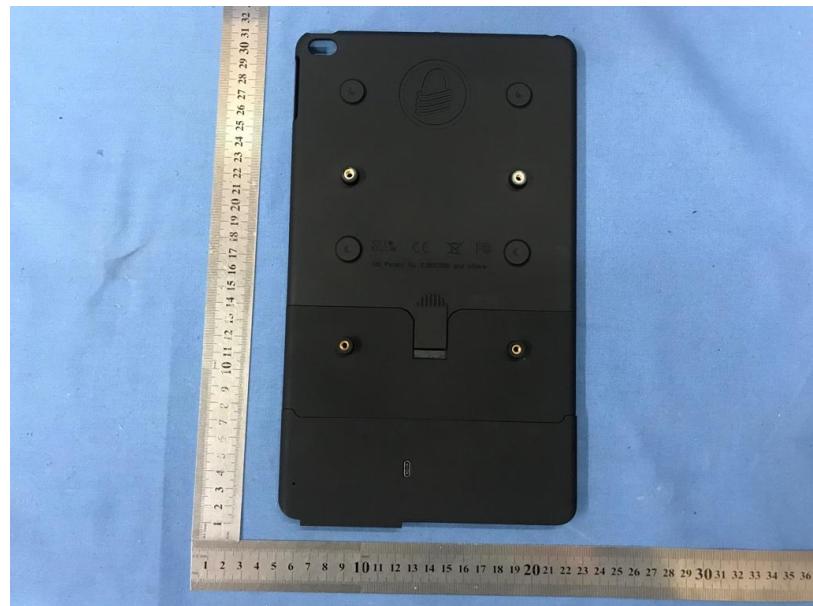
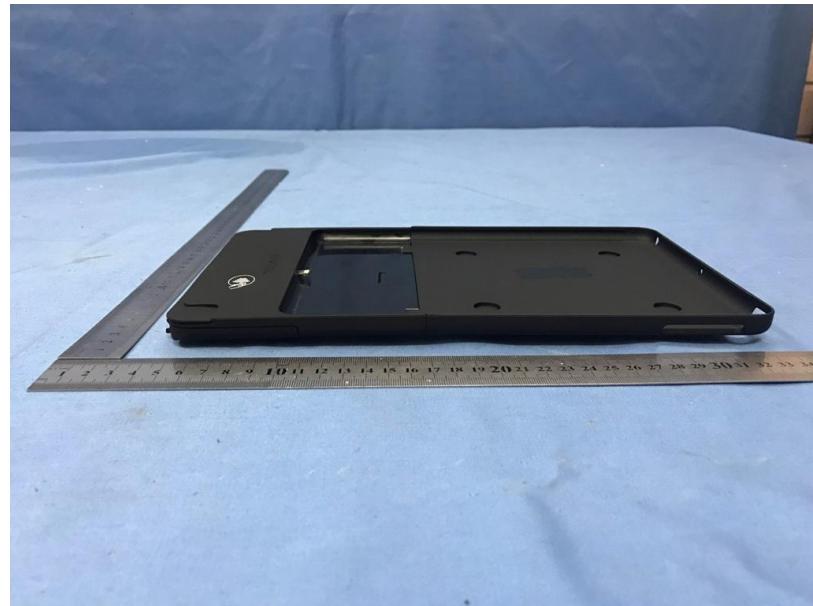
Conducted Emission

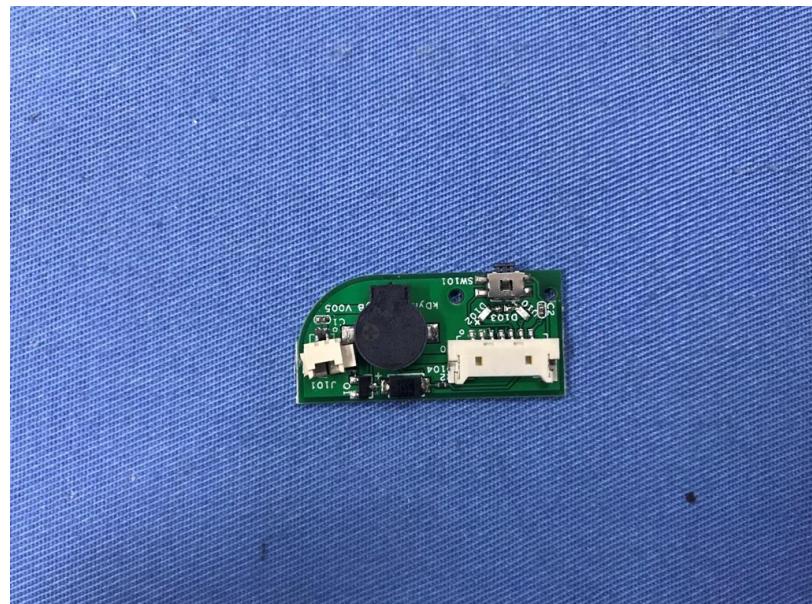


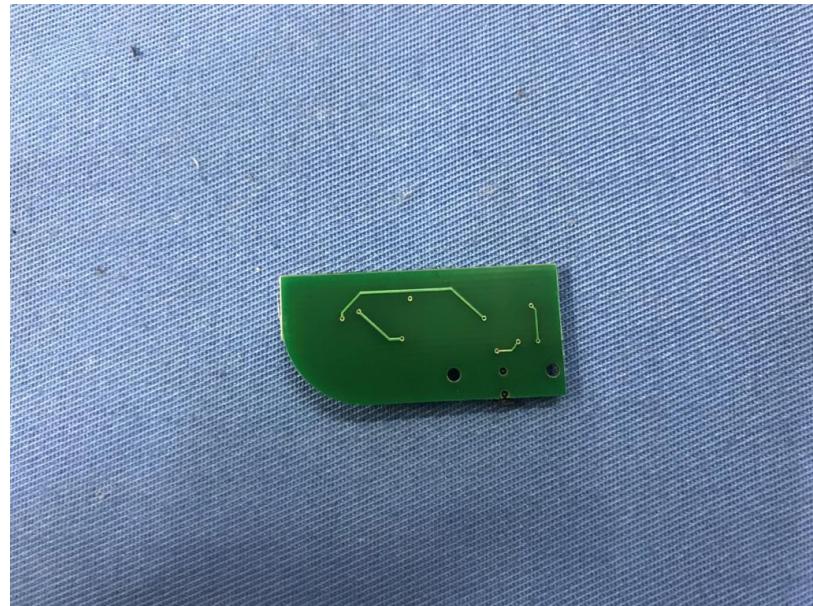
## 9 EUT Constructional Details

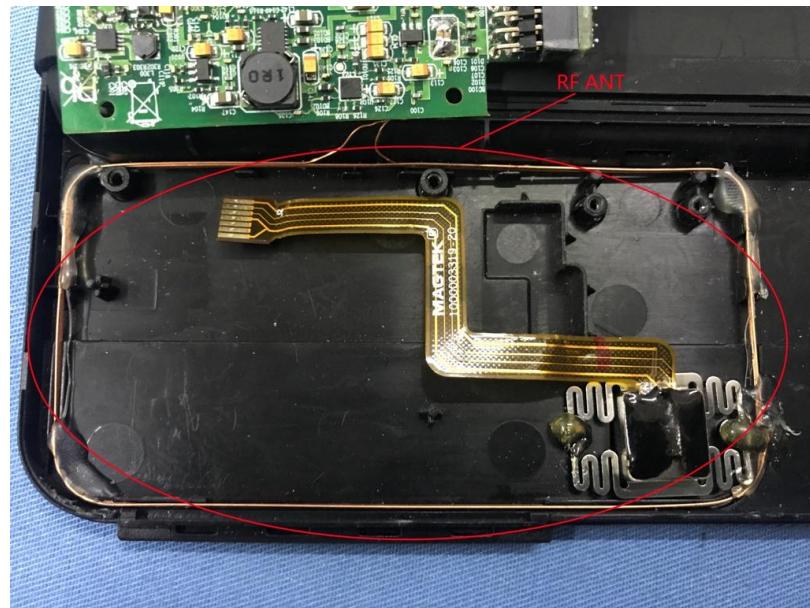
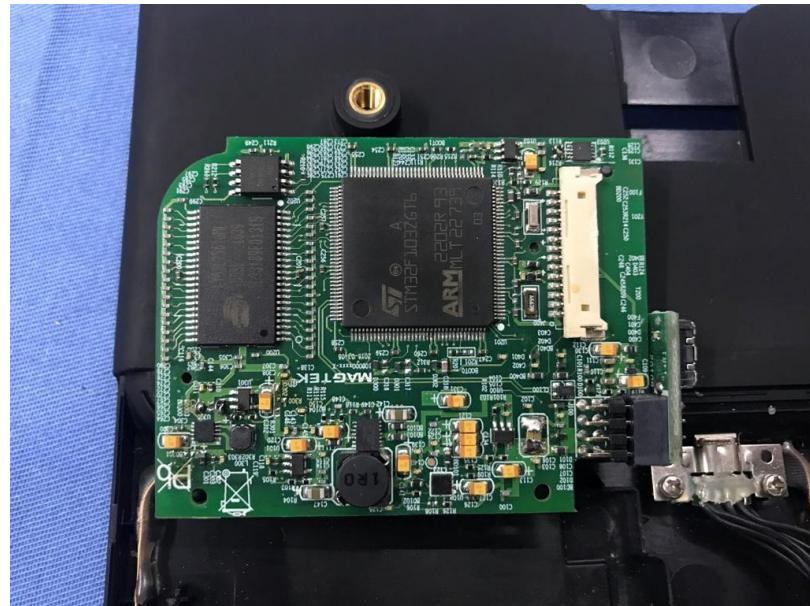












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