

FCC TEST REPORT  
for  
Hunan Ocean Wing E-commerce Technology Co., Ltd.  
  
Anker TC930 Bluetooth Keyboard Cover for iPad Air  
Model No.: 98AP9804A-BTA

Prepared for : Hunan Ocean Wing E-commerce Technology Co., Ltd.  
Address : 25 Floor, Jiatian International Building, #359 Furong Zhonglu,  
Changsha, Hunan Province, China

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Report Number : 201401816F  
Date of Test : Jan. 16~ 26, 2014  
Date of Report : Feb. 07, 2014

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## TEST REPORT

Applicant : Hunan Ocean Wing E-commerce Technology Co., Ltd.  
Manufacturer : Hunan Ocean Wing E-commerce Technology Co., Ltd.  
EUT : Anker TC930 Bluetooth Keyboard Cover for iPad Air  
Model No. : 98AP9804A-BTA  
Serial No. : N/A  
Trade Mark : ANKER  
Rating : DC 3.7V, 800 mAH

Measurement Procedure Used:

FCC Part15 Subpart C, Paragraph 15.207, 15.249 & 15.209

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test :

Jan. 16~ 26, 2014



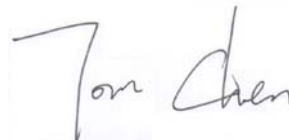
Prepared by :

(Engineer / Rock Zeng)



Reviewer :

(Project Manager/Amy Ding)



Approved & Authorized Signer :

(Manager/Tom Chen)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT : Anker TC930 Bluetooth Keyboard Cover for iPad Air

Model Number : 98AP9804A-BTA

Test Power Supply : DC 3.7V

Frequency : 2402-2480MHz

No. of Channel : 79

Channel Space : 1MHz

Antenna Specification : Printed Antenna: 2.78 dBi

Applicant : Hunan Ocean Wing E-commerce Technology Co., Ltd.  
Address : 25 Floor, Jiatian International Building, #359 Furong Zhonglu, Changsha, Hunan Province, China

Manufacturer : Hunan Ocean Wing E-commerce Technology Co., Ltd.  
Address : 25 Floor, Jiatian International Building, #359 Furong Zhonglu, Changsha, Hunan Province, China

Factory : Hunan Ocean Wing E-commerce Technology Co., Ltd.  
Address : Room 01, 4 Floor, Y2 Creative Industry Park, Yayuan Road, Bantian Street, Longgang, Shenzhen

Date of receiver : Jan. 16, 2014

Date of Test : Jan. 16~ 26, 2014

## 1.2. Auxiliary Equipment Used during Test

Adapter : Power Supply  
Model: CW0502000  
Input: 100-240V~, 50-60Hz, 0.4A Max  
Output: 5V $\overline{\text{---}}$ , 2A

## 1.3. Description of Test Facility

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

### **FCC-Registration No.: 463622**

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 our files. Registration 463622, June 14, 2011.

### **IC-Registration No.: 46405-9469**

EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 46405-9469, May 02, 2011.

### **Test Location**

All Emissions tests were performed at  
NINGBO EMTEK CO., LTD. at 1F Building 4, 1177#, Lingyun Road, Ningbo  
National Hi-Tech Zone, Ningbo, Zhejiang, China

## 1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.3dB  
Conduction Uncertainty : Uc = 3.4dB

## 2. Test Procedure

**GENERAL:** This report shall NOT be reproduced except in full without the written approval of Shenzhen Anbotek Compliance Laboratory Limited. The EUT was transmitting a test signal during the testing.

**RADIATION INTERFERENCE:** The test procedure used was ANSI STANDARD C63.4-2009 using a spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the EUT was 74.3oF with a humidity of 69%.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

**Example:**

Freq (MHz) METER READING + ACF = FS  
20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

**ANSI STANDARD C63.4-2009 10.1.7 MEASUREMENT PROCEDURES:** The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

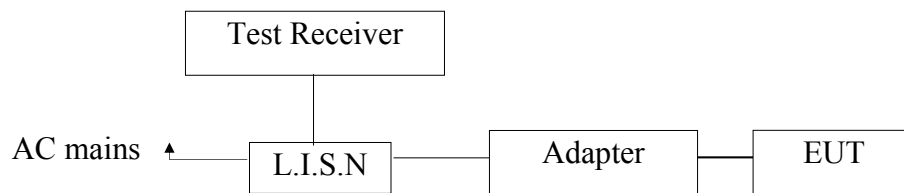
### 3. Conducted Limits

#### Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schewarz	ESCI	101108	08/01/2013	1 Year
2.	L.I.S.N	Rohde & Schewarz	ENV216	101193	08/01/2013	1 Year
3.	L.I.S.N	Schwarzbeck	NSLK 8126	8126-462	08/01/2013	1 Year
4.	Pulse Limiter	MTS-system technik	IMP-136	2611115-0 01-0033	08/01/2013	1 Year

#### 3.1. Block Diagram of Test Setup

##### 3.1.1. Block diagram of connection between the EUT and simulators



#### 3.2. Power Line Conducted Emission Measurement Limits (15.207)

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

#### 3.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

#### 3.4. Operating Condition of EUT

3.4.1. Setup the EUT and simulator as shown as Section 3.1.

3.4.2. Turn on the power of all equipment.

3.4.3. Let the EUT work in test mode (Charging to adapter) and measure it.

### 3.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test results are reported on Section 3.6.

### 3.6. Power Line Conducted Emission Measurement Results

**PASS.**

The frequency range from 150KHz to 30 MHz is investigated.

Please refer the following pages.

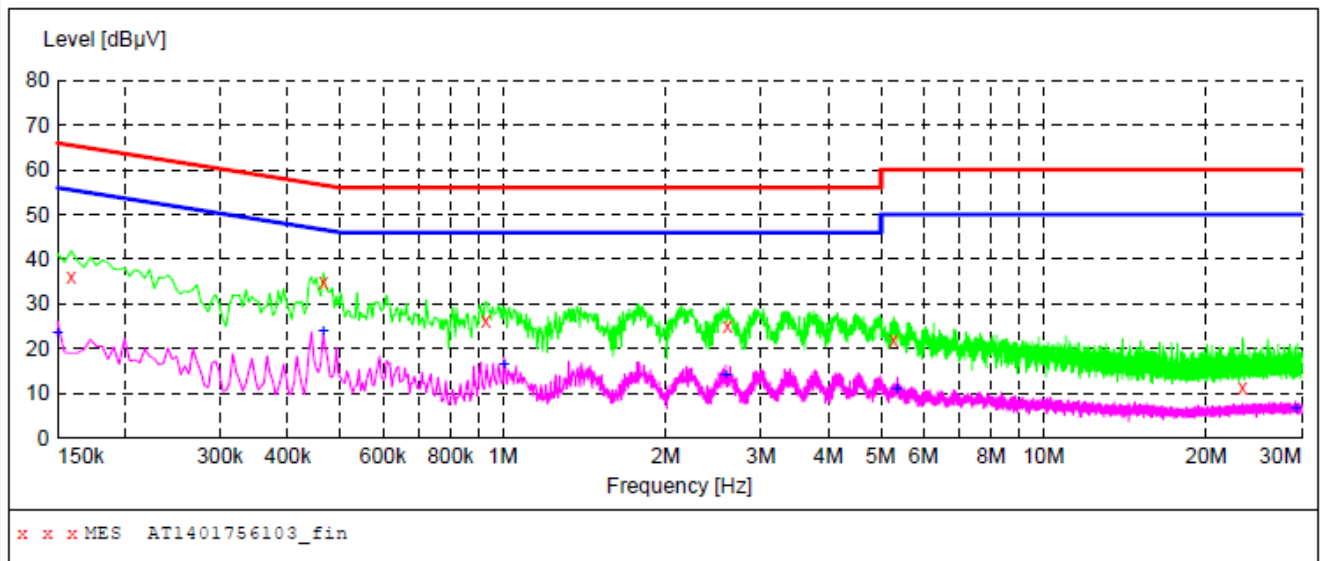


**CONDUCTED EMISSION TEST DATA**

Test Site: 1# Shielded Room  
 Operating Condition: Charging to adapter  
 Test Specification: AC 120V/60Hz for Adapter  
 Comment: Live Line  
 Tem:25°C Hum:50%

**SCAN TABLE: "Voltage (150K~30M) FIN"**

Short Description: 150K-30M Disturbance Voltages

**MEASUREMENT RESULT: "AT1401756103\_fin"**

1/17/2014 9:01AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	36.10	20.1	66	29.4	QP	L1	GND
0.465000	34.70	20.1	57	21.9	QP	L1	GND
0.928500	26.40	20.1	56	29.6	QP	L1	GND
2.606500	25.00	20.4	56	31.0	QP	L1	GND
5.284000	22.10	20.5	60	37.9	QP	L1	GND
23.324500	11.40	20.8	60	48.6	QP	L1	GND

**MEASUREMENT RESULT: "AT1401756103\_fin2"**

1/17/2014 9:01AM

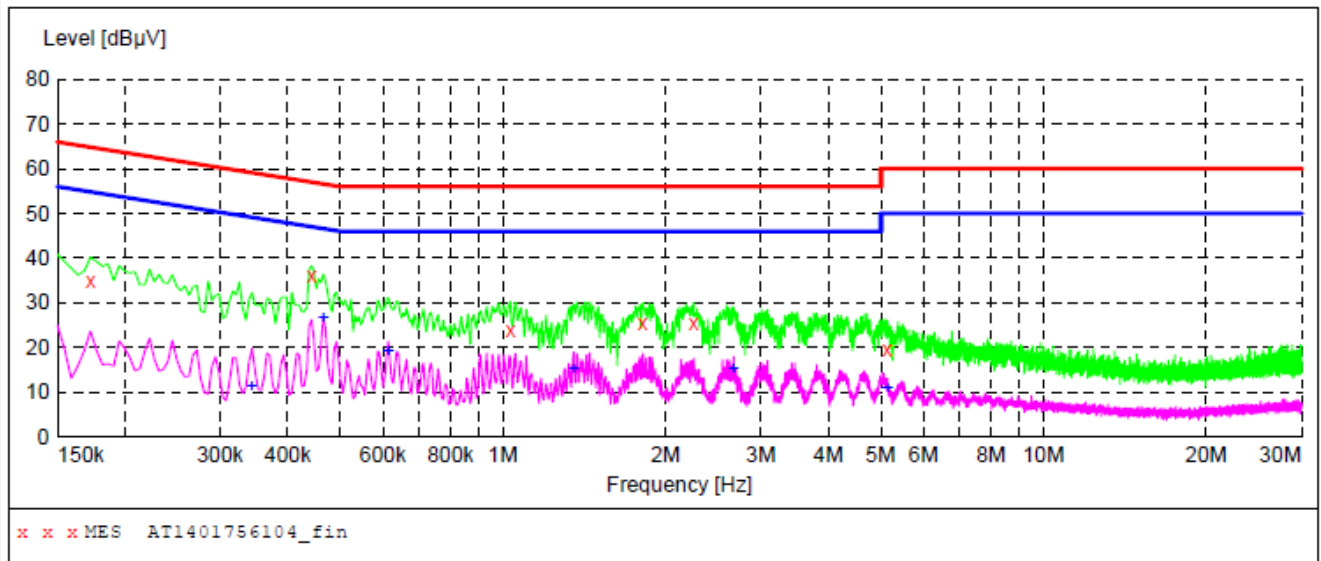
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	23.50	20.1	56	32.5	AV	L1	GND
0.465000	23.70	20.1	47	22.9	AV	L1	GND
1.004500	16.30	20.2	46	29.7	AV	L1	GND
2.584000	14.20	20.4	46	31.8	AV	L1	GND
5.360500	11.10	20.5	50	38.9	AV	L1	GND
29.246500	6.60	20.9	50	43.4	AV	L1	GND

**CONDUCTED EMISSION TEST DATA**

Test Site: 1# Shielded Room  
 Operating Condition: Charging to adapter  
 Test Specification: AC 120V/60Hz for Adapter  
 Comment: Neutral Line  
 Tem:25°C Hum:50%

**SCAN TABLE: "Voltage(150K~30M) FIN"**

Short Description: 150K-30M Disturbance Voltages

**MEASUREMENT RESULT: "AT1401756104\_fin"**

1/17/2014 9:05AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.172500	34.90	20.1	65	29.9	QP	N	GND
0.442500	36.20	20.1	57	20.8	QP	N	GND
1.031500	23.90	20.2	56	32.1	QP	N	GND
1.814500	25.40	20.3	56	30.6	QP	N	GND
2.251000	25.40	20.3	56	30.6	QP	N	GND
5.131000	19.40	20.5	60	40.6	QP	N	GND

**MEASUREMENT RESULT: "AT1401756104\_fin2"**

1/17/2014 9:05AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.343500	11.30	20.1	49	37.8	AV	N	GND
0.465000	26.60	20.1	47	20.0	AV	N	GND
0.613500	19.00	20.1	46	27.0	AV	N	GND
1.351000	15.10	20.2	46	30.9	AV	N	GND
2.669500	15.10	20.4	46	30.9	AV	N	GND
5.140000	10.80	20.5	50	39.2	AV	N	GND

## 4. Radiation Interference

### 4.1. Requirements (15.249, 15.209):

#### 4.1.1. Test Limits (< 30 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

#### 4.1.2. Test Limits ( $\geq$ 30 MHz)

FIELD STRENGTH of Fundamental: @3M	FIELD STRENGTH of Harmonics	S15.209 30 - 88 MHz	40 dBuV/m
902-928 MHz		88 - 216 MHz	43.5
2.4-2.4835 GHz		216 - 960 MHz	46
94 dBuV/m @3m	54 dBuV/m @3m	ABOVE 960 MHz	54dBuV/m

For range 9KHz~30MHz, The measured value is really too low to be recorded.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in 15.209, whichever is the lesser attenuation.

### 4.2. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz. The EUT is tested in 9\*6\*6 Chamber.

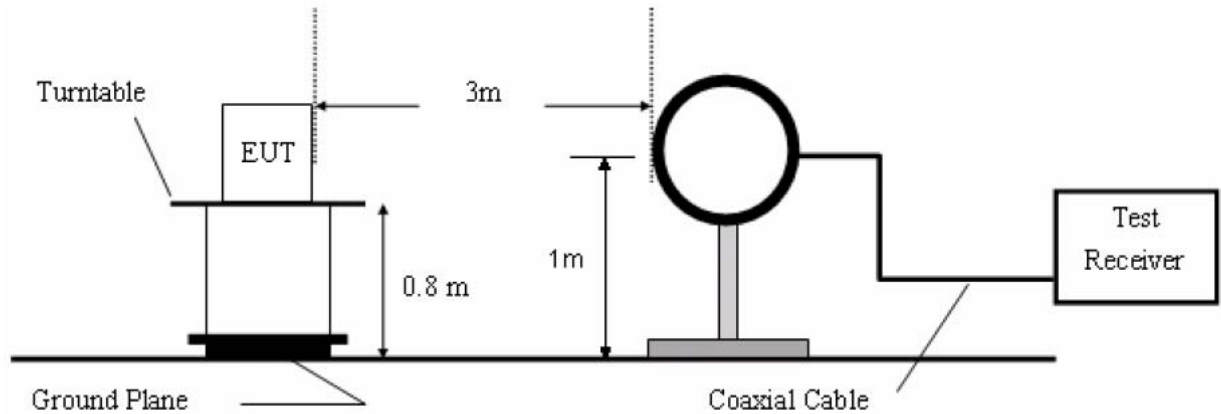
The test results are listed in Section 3.3.

## Test Equipment

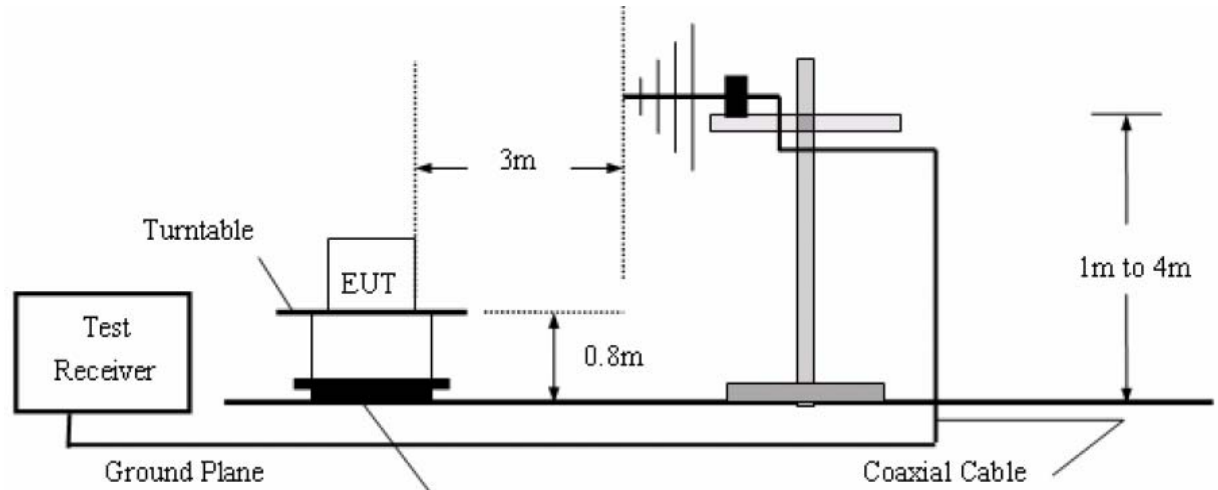
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Rohde & Schwarz	ESU	1302.6005.26	05/28/2013	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/28/2013	1 Year
3.	Pre-Amlifier	HP	8447D	2944A07999	05/28/2013	1 Year
4.	Bilog Antenna	Schwarzbeck	VULB9163	142	05/28/2013	1 Year
5.	Loop Antenna	ARA	PLA-1030/B	1029	05/28/2013	1 Year
6.	Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170399	05/28/2013	1 Year
7.	Horn Antenna	Schwarzbeck	BBHA9120	D143	05/28/2013	1 Year

## 4.3. Test Configuration:

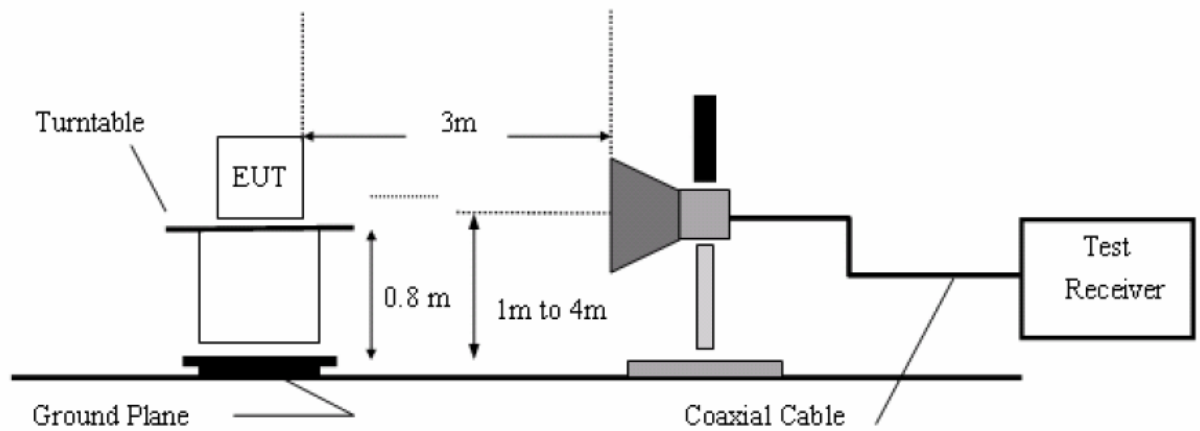
## 4.3.1. 9k to 30MHz emissions:



## 4.3.2. 30M to 1G emissions:



## 4.3.3. 1G to 40G emissions:



## 4.4. Test Results

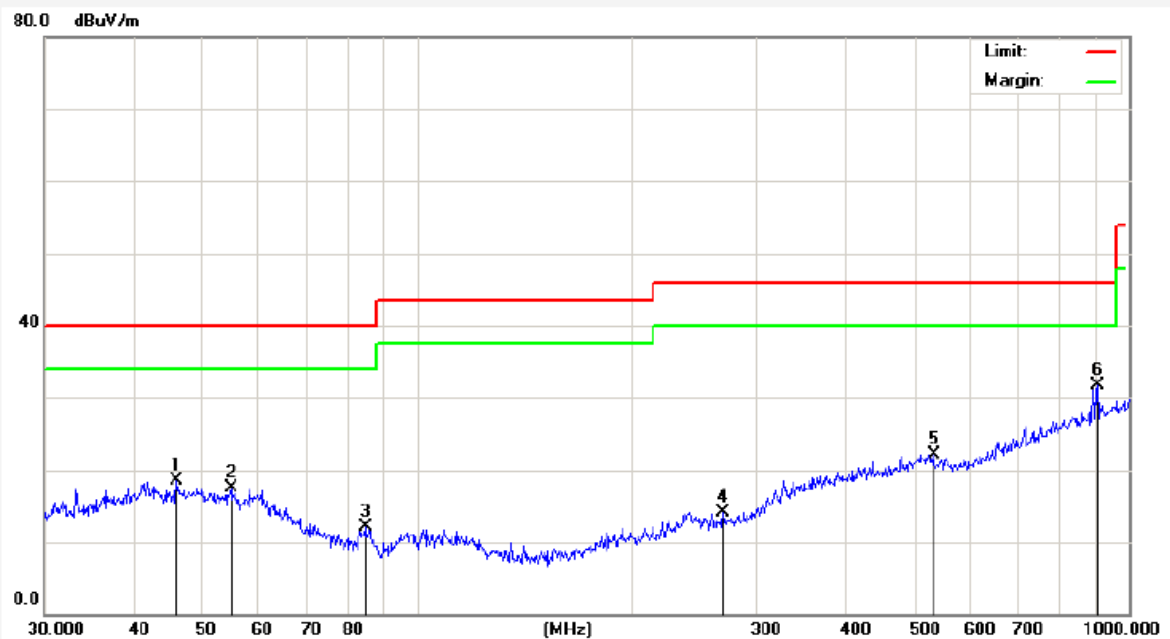
PASS.

The EUT was tested on (Charging to adapter, BT Mode) modes, only the worst data of (BT Mode) are attached in the following pages.

**Data:**

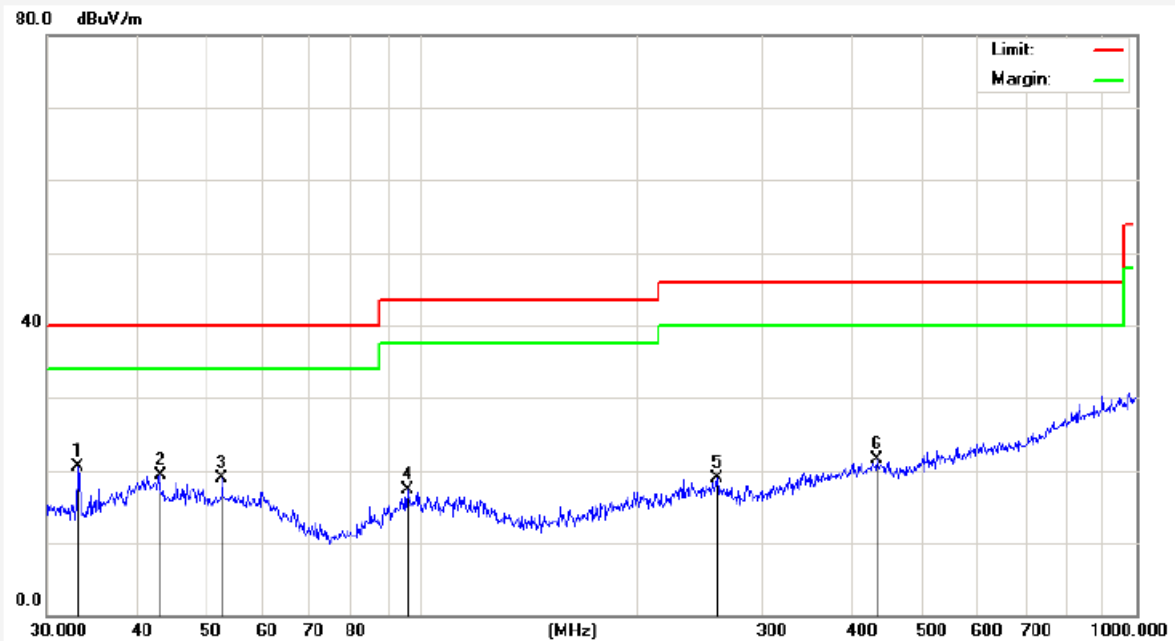
**Below 1GHz:**

<b>Job No.:</b>	AT1401756F	<b>Polarization:</b>	Horizontal
<b>Standard:</b>	(RE)FCC PART15 C_3m	<b>Power Source:</b>	DC 3.7V
<b>Test item:</b>	Radiation Test	<b>Temp.(C)/Hum.(%RH):</b>	24.3( C)/55%RH
<b>Mode:</b>	BT Mode	<b>Distance:</b>	3m
<b>Note:</b>	30-1000MHz		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	46.0164	32.84	-14.38	18.46	40.00	-21.54	peak			
2	54.8348	32.36	-14.91	17.45	40.00	-22.55	peak			
3	84.7019	32.55	-20.45	12.10	40.00	-27.90	peak			
4	269.4284	32.82	-18.64	14.18	46.00	-31.82	peak			
5	531.9635	33.16	-11.04	22.12	46.00	-23.88	peak			
6	903.3094	36.38	-4.71	31.67	46.00	-14.33	peak			

<b>Job No.:</b>	<b>AT1401756F</b>	<b>Polarziation:</b>	<b>Vertical</b>
<b>Standard:</b>	<b>(RE)FCC PART15 C _3m</b>	<b>Power Source:</b>	<b>DC 3.7V</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Temp.(C)/Hum.(%RH):</b>	<b>24.3( C)/55%RH</b>
<b>Mode:</b>	<b>BT Mode</b>	<b>Distance:</b>	<b>3m</b>
<b>Note:</b>	<b>30-1000MHz</b>		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	33.2112	37.04	-16.52	20.52	40.00	-19.48	peak			
2	43.2017	33.73	-14.35	19.38	40.00	-20.62	peak			
3	52.7600	33.60	-14.77	18.83	40.00	-21.17	peak			
4	95.7622	33.24	-15.98	17.26	43.50	-26.24	peak			
5	259.2338	32.91	-14.00	18.91	46.00	-27.09	peak			
6	434.0651	32.80	-11.24	21.56	46.00	-24.44	peak			

**Above 1 GHz:**

Horizontal CH Low (2402MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
2402.000	2.17	31.21	35.30	92.14	90.22	114.0	-23.78	Peak
2402.000	2.17	31.21	35.30	81.58	79.66	94.0	-14.34	AV
4804.000	2.56	34.01	34.71	48.12	49.98	74.0	-24.02	Peak
4804.000	2.56	34.01	34.71	34.17	36.03	54.0	-17.97	AV
7206.000	2.98	36.16	35.15	45.67	49.66	74.0	-24.34	Peak
7206.000	2.98	36.16	35.15	31.39	35.38	54.0	-18.62	AV
9608.000	---	---	---	---	---	---	---	---
9608.000	---	---	---	---	---	---	---	---
12010.000	---	---	---	---	---	---	---	---
12010.000	---	---	---	---	---	---	---	---
---								

Vertical CH Low (2402MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
2402.000	2.17	31.21	35.30	91.25	89.33	114.0	-24.67	Peak
2402.000	2.17	31.21	35.30	83.19	81.27	94.0	-12.73	AV
4804.000	2.56	34.01	34.71	44.31	46.17	74.0	-27.83	Peak
4804.000	2.56	34.01	34.71	35.72	37.58	54.0	-16.42	AV
7206.000	2.98	36.16	35.15	41.22	45.21	74.0	-28.79	Peak
7206.000	2.98	36.16	35.15	35.27	39.26	54.0	-14.74	AV
9608.000	---	---	---	---	---	---	---	---
9608.000	---	---	---	---	---	---	---	---
12010.000	---	---	---	---	---	---	---	---
12010.000	---	---	---	---	---	---	---	---
---								

**NOTE: “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.  
The results of different modulations are the same.**



Horizontal CH Middle (2441MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
2441.000	2.19	31.22	34.60	93.65	92.46	114.0	-21.54	Peak
2441.000	2.19	31.22	34.60	83.21	82.02	94.0	-11.98	AV
4882.000	2.57	35.00	34.58	42.17	45.16	74.0	-28.84	Peak
4882.000	2.57	35.00	34.58	40.02	43.01	54.0	-10.99	AV
7323.000	3.00	36.17	35.14	43.28	47.31	74.0	-26.69	Peak
7323.000	3.00	36.17	35.14	36.34	40.37	54.0	-13.63	AV
9764.000	---	---	---	---	---	---	---	---
9764.000	---	---	---	---	---	---	---	---
12205.000	---	---	---	---	---	---	---	---
12205.000	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---

Vertical CH Middle (2441MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
2441.000	2.19	31.22	34.60	91.38	90.19	114.0	-23.81	Peak
2441.000	2.19	31.22	34.60	81.25	80.06	94.0	-13.94	AV
4882.000	2.57	35.00	34.58	43.36	46.35	74.0	-27.65	Peak
4882.000	2.57	35.00	34.58	42.67	45.66	54.0	-8.34	AV
7323.000	3.00	36.17	35.14	43.92	47.95	74.0	-26.05	Peak
7323.000	3.00	36.17	35.14	35.77	39.80	54.0	-14.20	AV
9764.000	---	---	---	---	---	---	---	---
9764.000	---	---	---	---	---	---	---	---
12205.000	---	---	---	---	---	---	---	---
12205.000	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---

**NOTE: “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The results of different modulations are the same.**

Horizontal CH High (2480MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
2480.000	2.20	31.65	36.00	91.12	88.97	114.0	-25.03	Peak
2480.000	2.20	31.65	36.00	82.64	80.49	94.0	-13.51	AV
4960.000	2.58	35.06	34.79	45.24	48.09	74.0	-25.91	Peak
4960.000	2.58	35.06	34.79	37.64	40.49	54.0	-13.51	AV
7440.000	3.02	36.19	34.90	48.79	53.10	74.0	-20.90	Peak
7440.000	3.02	36.20	35.20	39.35	43.37	54.0	-10.63	AV
9920.000	---	---	---	---	---	---	---	---
9920.000	---	---	---	---	---	---	---	---
12400.000	---	---	---	---	---	---	---	---
12400.000	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---

Vertical CH High (2480MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
2480.000	2.20	31.65	36.00	92.55	90.40	114.0	-23.60	Peak
2480.000	2.20	31.65	36.00	84.21	82.06	94.0	-11.94	AV
4960.000	2.58	35.06	34.79	42.11	44.96	74.0	-29.04	Peak
4960.000	2.58	35.06	34.79	36.88	39.73	54.0	-14.27	AV
7440.000	3.02	36.19	34.90	43.32	47.63	74.0	-26.37	Peak
7440.000	3.02	36.20	35.20	34.29	38.31	54.0	-15.69	AV
9920.000	---	---	---	---	---	---	---	---
9920.000	---	---	---	---	---	---	---	---
12400.000	---	---	---	---	---	---	---	---
12400.000	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---

**NOTE: “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The results of different modulations are the same.**

## 5. Occupied Bandwidth

### 5.1. Requirements (15.249):

The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.249.

### 5.2. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

#### Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Aug. 09, 2013	1 Year
2.	Preamplifier	Instruments corporation	EMC011830	980100	Aug. 09, 2013	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 23, 2013	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Aug. 09, 2013	3 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 23, 2013	3 Year
6.	Loop Antenna	ARA	PLA-1030/B	1029	Apr. 23, 2013	3 Year
7.	Pre-amplifier	SONOMA	310N	186860	Apr. 23, 2013	1 Year
8.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A

### 5.3. Test Configuration:

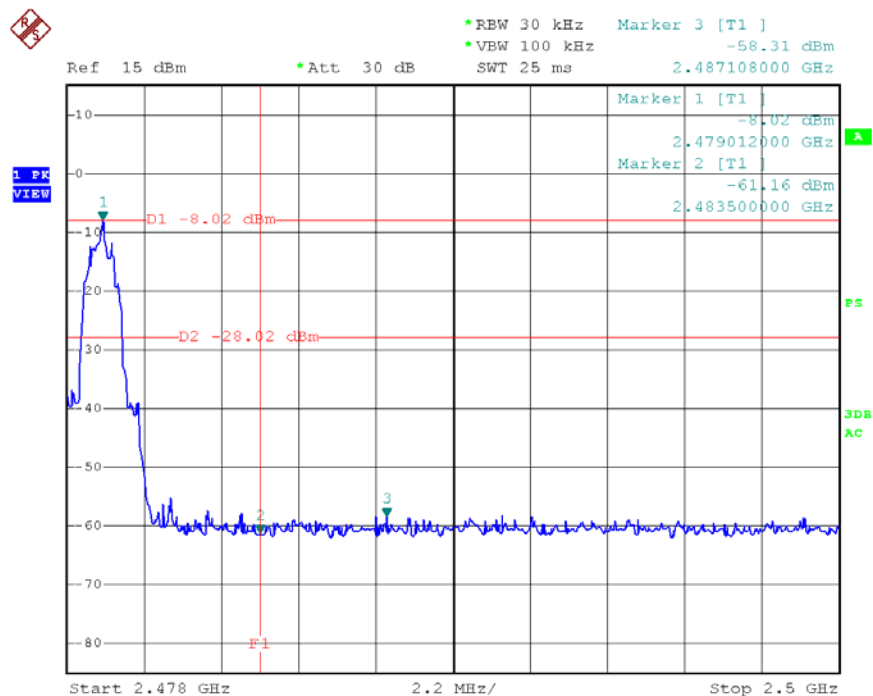
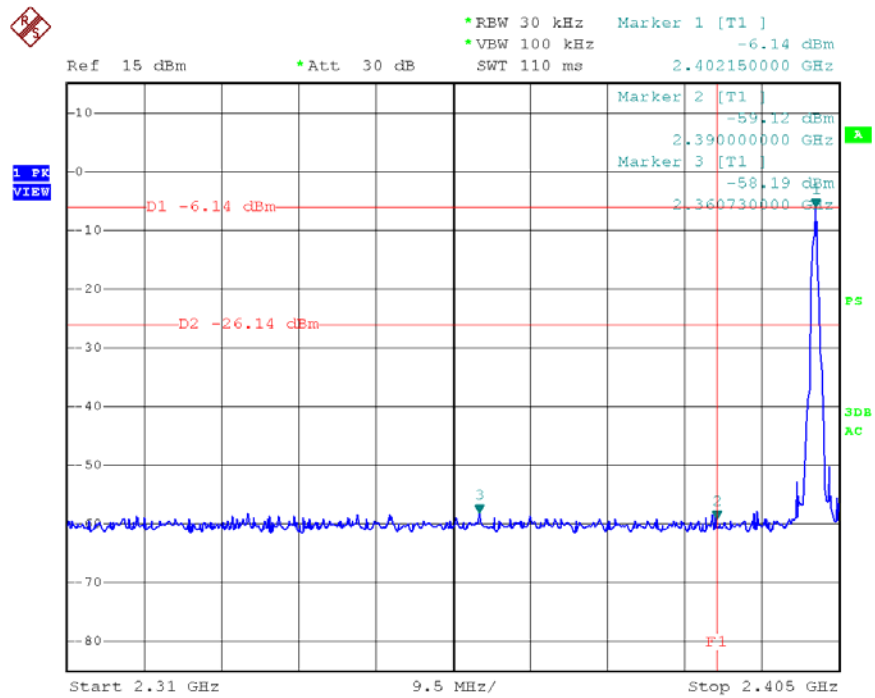
Same as the test configuration in 4.3.

### 5.4. Test Results

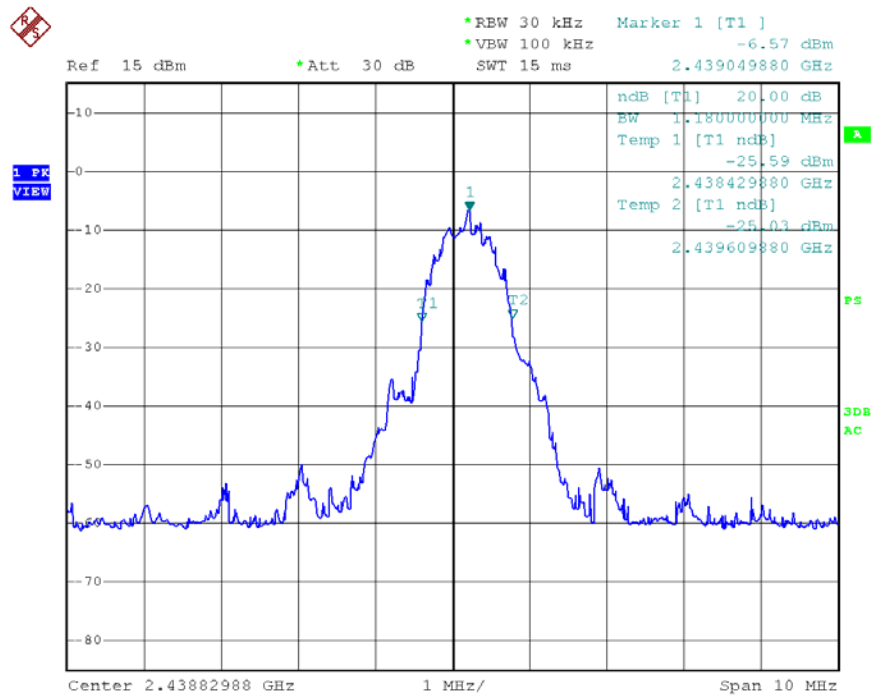
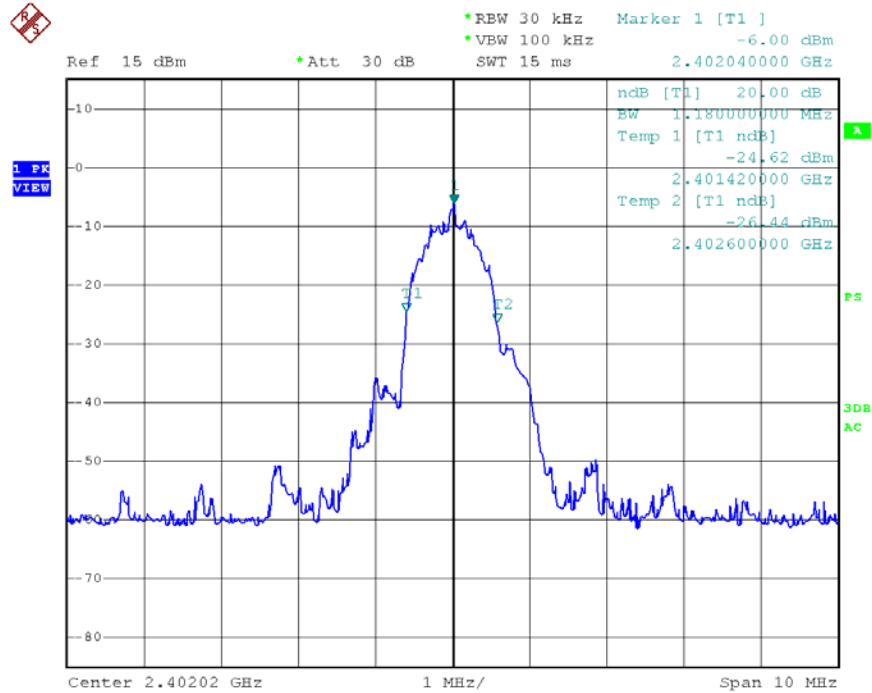
Pass.

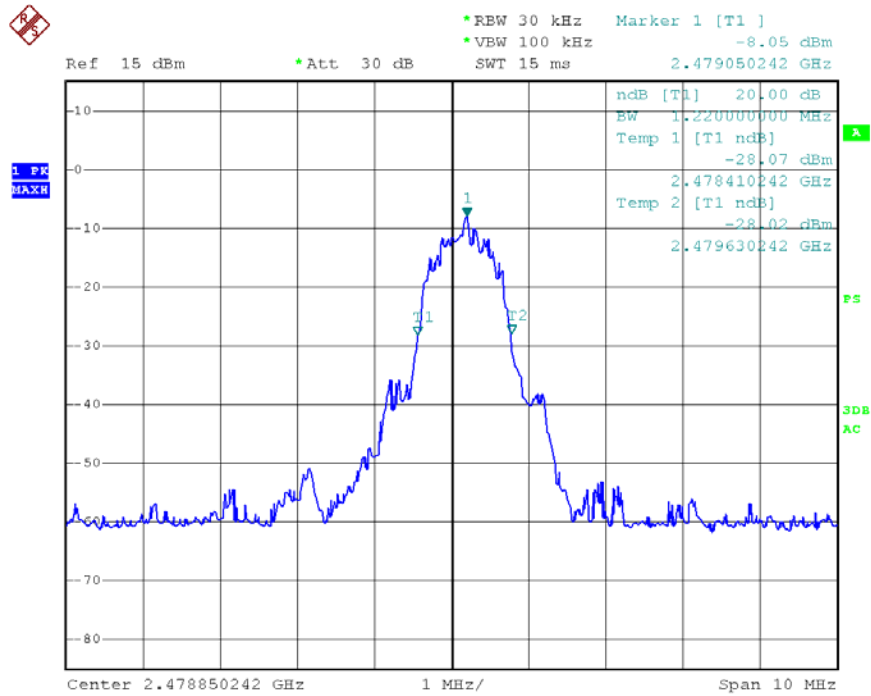
Please refer the following plot.

(Note: Marker 3 means the highest value in 2.39GHz~2.4GHz or 2.4835~2.5GHz)



20dB Down:



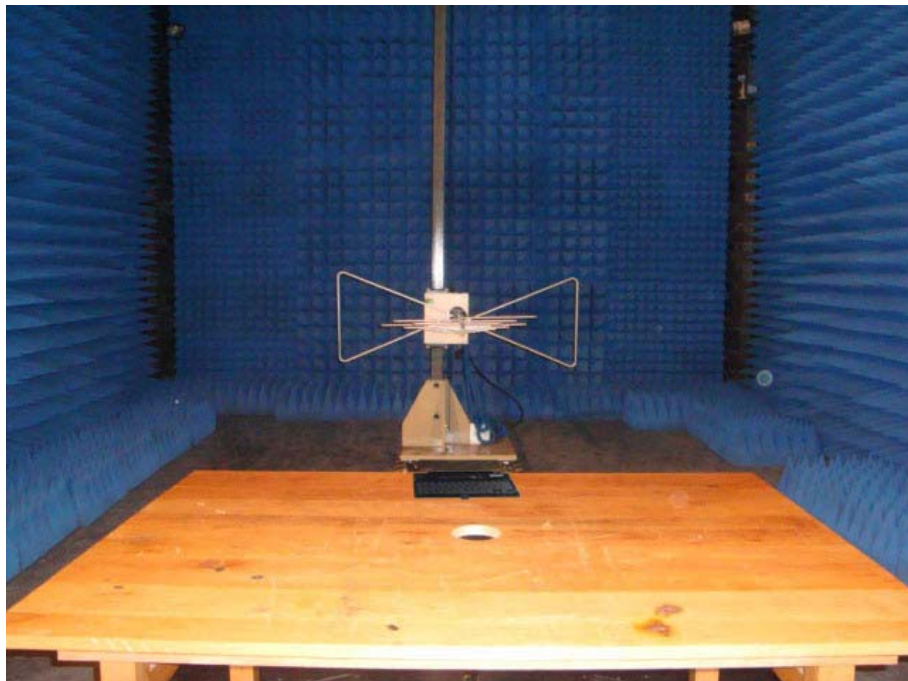


## 6. PHOTOGRAPH

### 6.1. Photo of Conducted Emission Test



### 6.2. Photo of Radiation Emission Test



## APPENDIX I (EXTERNAL PHOTOS)

Figure 1  
The EUT-Front View



Figure 2  
The EUT- Back View





Figure 3  
The EUT- Side View



## APPENDIX II(INTERNAL PHOTOS)

Figure 4  
The EUT-Inside View



Figure 5  
The EUT-Inside View



Figure 6  
PCB of The EUT-Front View

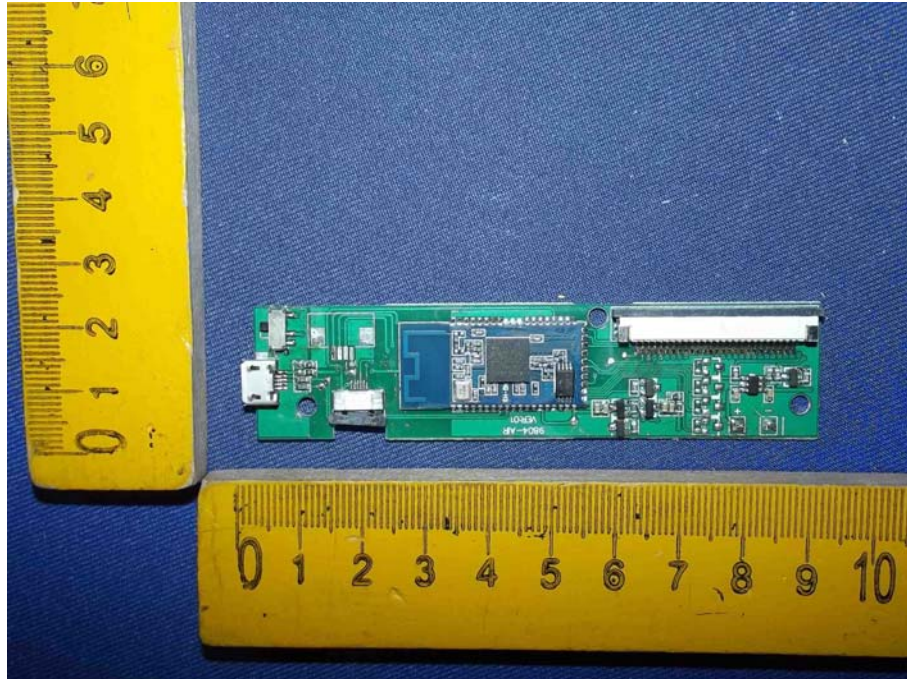


Figure 7  
PCB of The EUT-Back View

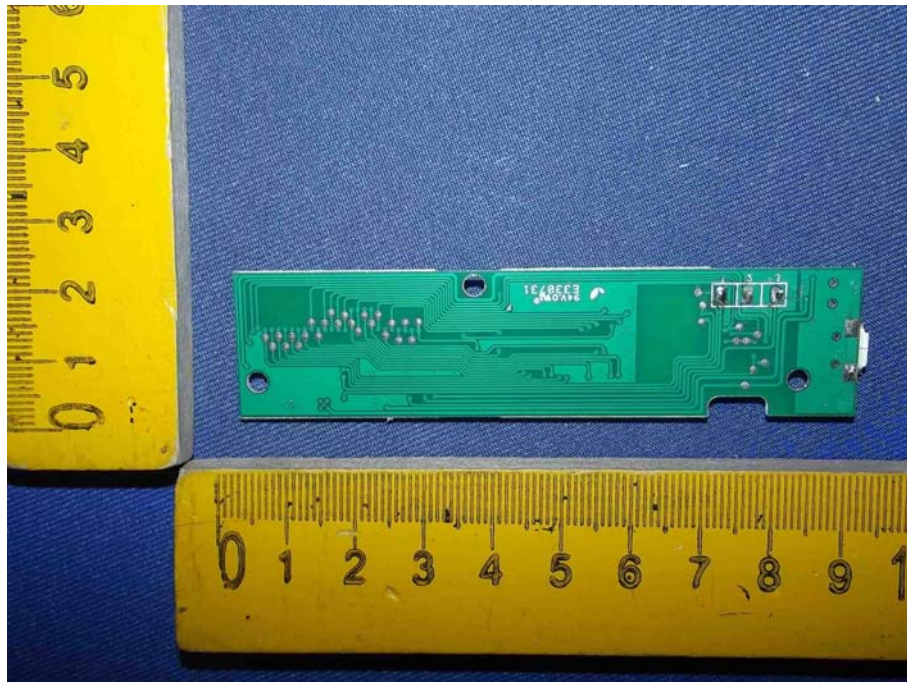




Figure 8  
PCB of The EUT-Front View

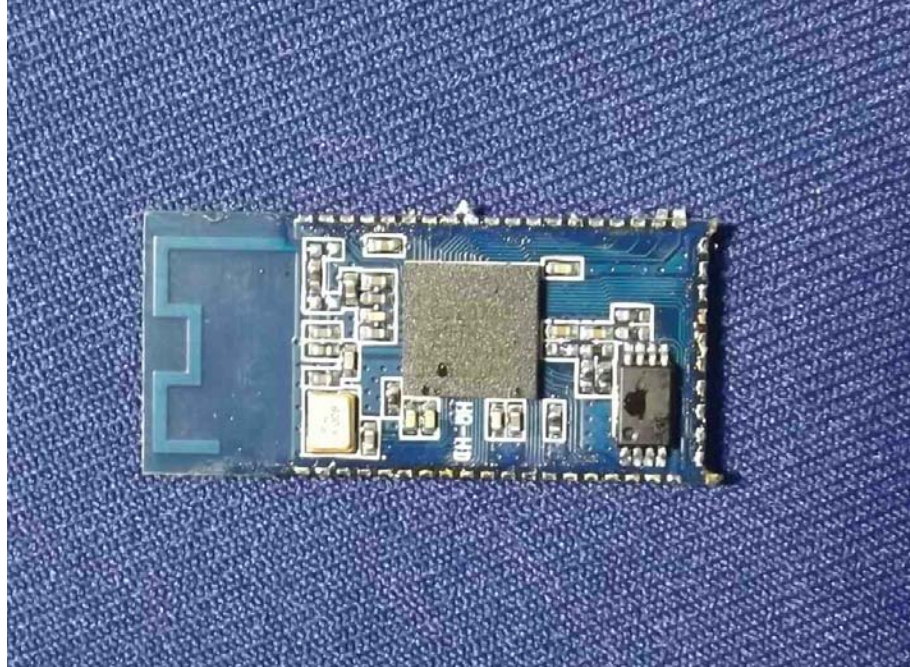


Figure 9  
PCB of The EUT-Back View

