

# FCC TEST REPORT

for

Wintop Electronics Co., Limited

BLUETOOTH WIRELESS MOUSE Model No.: BM-709L, MBT9650RED, MBT9650BLU, MBT9650PUR, MBT9650BLK

Prepared for : Wintop Electronics Co., Limited

Address : Unit 04 7/F, Bright Way Tower 33, Mong Kok RD KL,

HONGKONG

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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Report Number : R011508067I Date of Test : Aug. 04~ 11, 2015

Date of Report : Aug. 12, 2015



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# **TEST REPORT**

Applicant : Wintop Electronics Co., Limited

Manufacturer : Shenzhen Wintop Electronics Co., Limited

EUT : BLUETOOTH WIRELESS MOUSE

Model No. : BM-709L, MBT9650RED, MBT9650BLU, MBT9650PUR,

MBT9650BLK

Serial No. : N.A.
Trade Mark : N.A.

Rating : DC 1.5V, 12mA

Measurement Procedure Used:

Date of Test ·

FCC Part15 Subpart C 2014, Paragraph 15.207, 15.247 & 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

Δug 04~ 11 2015

written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Bute of Test .	11ug. 01 11, 2015
Prepared by:	keloo zhang
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	Amy Ding
Reviewer:	
	(Project Manager / Amy Ding)
	Ton Gren
Approved & Authorized Signer :	
	(Manager / Tom Chen)



# 1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT : BLUETOOTH WIRELESS MOUSE

Model Number : BM-709L, MBT9650RED, MBT9650BLU, MBT9650PUR,

MBT9650BLK

(Note: All samples are the same except the model number and

colour, so we prepare "BM-709L" for test only.)

Test Power Supply: DC 1.5V

Frequency : 2402~2480MHz

Antenna : PCB Antenna: 0.1763dBi

Specification

Modulation : GFSK, π/4DQPSK, 8DPSK

Applicant : Wintop Electronics Co., Limited

Address : Unit 04 7/F, Bright Way Tower 33, Mong Kok RD KL,

**HONGKONG** 

Manufacturer : Shenzhen Wintop Electronics Co., Limited

Address : Huaguan Industrial Park, Xinhe Road, Baolai Industrial District,

Shangmugu, Pinghu Town, Longgang District, Shenzhen City,

518000, China

Factory : Shenzhen Wintop Electronics Co., Limited

Address : Huaguan Industrial Park, Xinhe Road, Baolai Industrial District,

Shangmugu, Pinghu Town, Longgang District, Shenzhen City,

518000, China

Date of receipt : Aug. 04, 2015

Date of Test : Aug. 04~ 11, 2015



# 1.2 Auxiliary Equipment Used during Test

Notebook : Manufacturer: FUJITSU

Model: LH531

Printer : Manufacturer:Brother

M/N: MFC-3360C

S/N: N/A CE, FCC:DOC

# 1.3 Description of Test Facility

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

#### CNAS - LAB Code: L3503

Shenzhen Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

### FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed 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 752021, July 10, 2013.

#### IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., 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 8058A, February 22, 2013.

#### **Test Location**

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

## 1.4 Measurement Uncertainty

Radiation Uncertainty : Ur = 4.1 dB (Horizontal)

Ur = 4.3 dB (Vertical)

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 C63.10-2013 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 C63.10-2013 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. Radiation Interference

## 3.1 Requirements (15.247, 15.209):

#### 3.1.1. Test Limits (< 30 MHZ)

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

#### 3.1.2. Test Limits ( $\geq$ 30 MHZ)

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

#### 3.2 Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane. 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. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.

#### For 30MHz to 1000MHz:

Set the spectrum analyzer as: RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak Trace mode= Max hold. Sweep- auto couple.

#### For Above 1GHz:

Set the spectrum analyzer as: RBW = 1MHz, VBW =3MHz, Detector= Peak



Trace mode= Max hold. Sweep- auto couple.

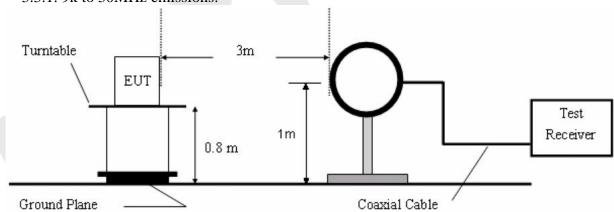
Set the spectrum analyzer as: RBW =1MHz, VBW =10Hz Detector= Average Trace mode= Max hold. Sweep- auto couple.

**Test Equipment** 

	_ rest =quipinent					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Apr. 17, 2015	1 Year
2.	Preamplifier	Instruments corporation	EMC01183 0	980100	Apr. 17, 2015	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 17, 2015	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Apr. 20, 2015	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 20, 2015	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Apr. 17, 2015	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A

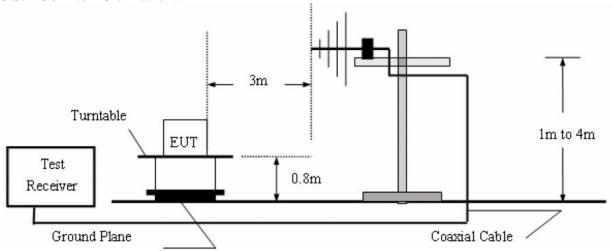
# 3.3 Test Configuration

### 3.3.1. 9k to 30MHz emissions:

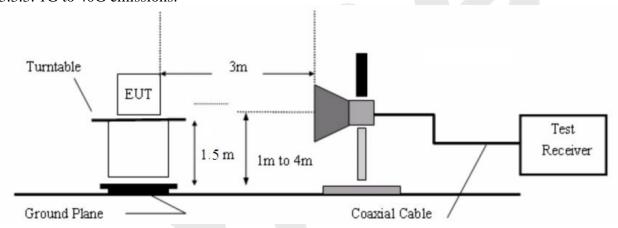




### 3.3.2. 30M to 1G emissions:



#### 3.3.3. 1G to 40G emissions:



## 3.4 Test Results

PASS.

Please refer the following pages. Only the worst case (x orientation).

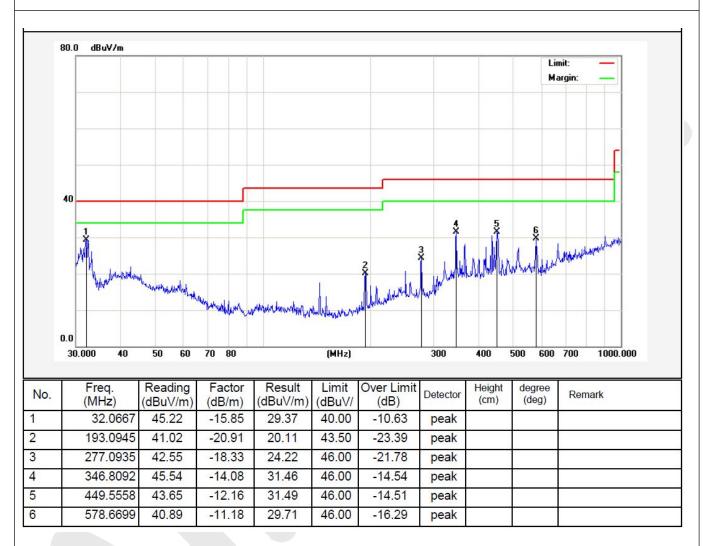


Job No.: 011508067I Polarization: Horizontal

Standard: (RE)FCC PART 15C \_3m Power Source: DC 1.5V

Test item: Radiation Test (30~1000MHz) Temp.(C)/Hum.(%RH): 24.3( C)/55%RH

Test Mode: On Distance: 3m



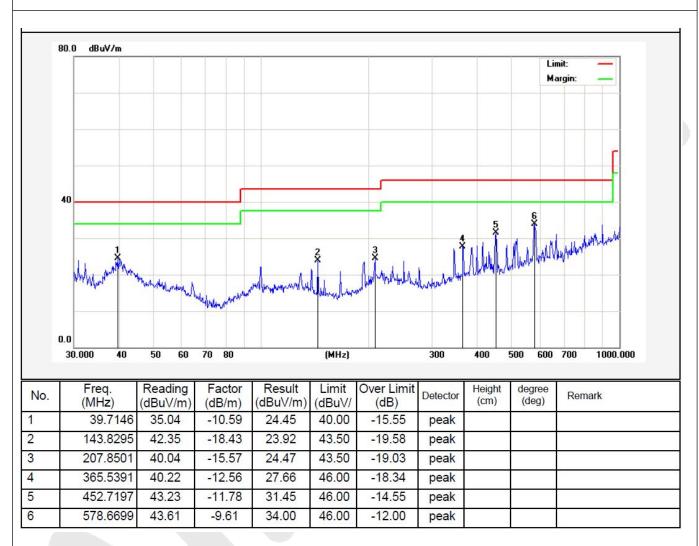


Job No.: 011508067I Polarization: Vertical

Standard: (RE)FCC PART 15C \_3m Power Source: DC 1.5V

Test item: Radiation Test (30~1000MHz) Temp.(C)/Hum.(%RH): 24.3( C)/55%RH

Test Mode: On Distance: 3m



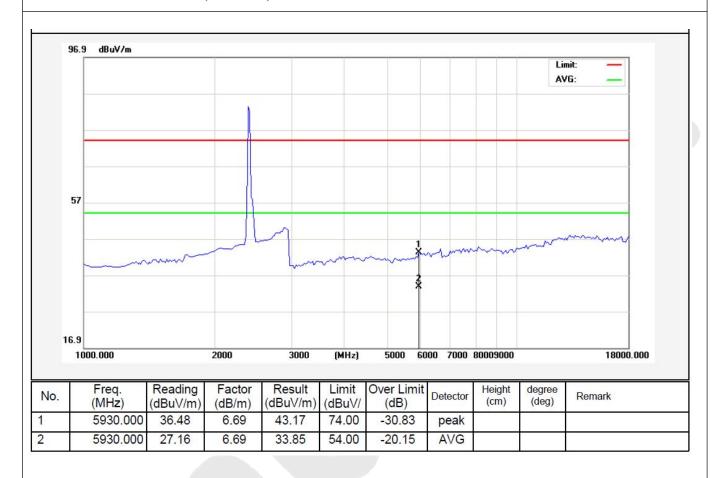


Job No.: 011508067I Polarization: Horizontal

Standard: (RE)FCC PART 15C\_Class B\_3m Power Source: DC 1.5V

Test item: Radiation Test (Above 1GHz) Temp.(C)/Hum.(%RH): 24.3( C)/55%RH

Test Mode: TX(2402 MHz) Distance: 3m



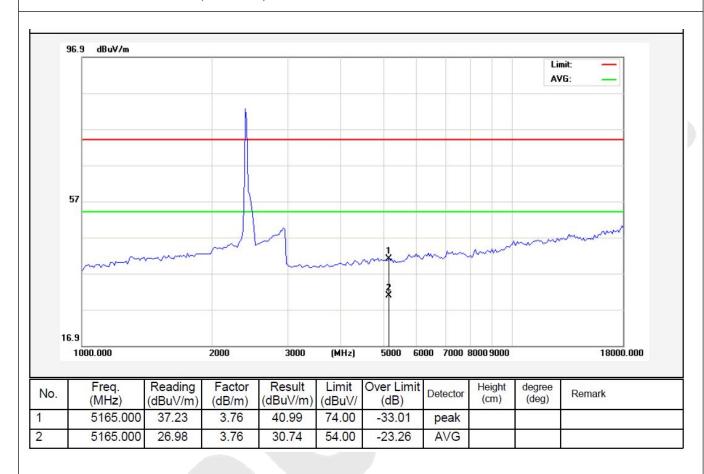


Job No.: 011508067I Polarization: Vertical

Standard: (RE)FCC PART 15C\_Class B\_3m Power Source: DC 1.5V

Test item: Radiation Test (Above 1GHz) Temp.(C)/Hum.(%RH): 24.3( C)/55%RH

Test Mode: TX(2402 MHz) Distance: 3m



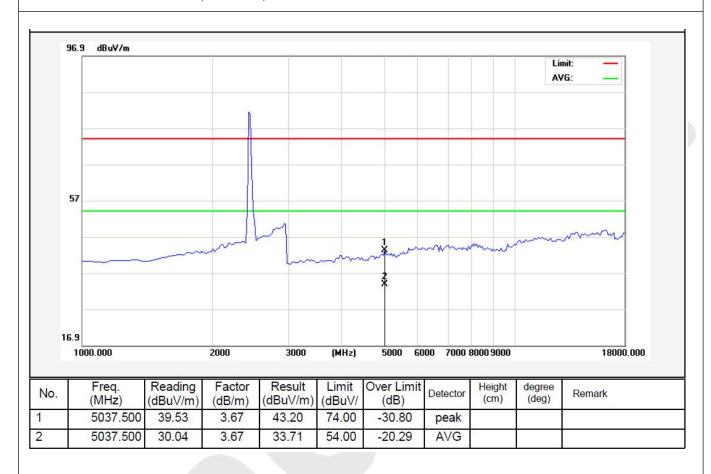


Job No.: 011508067I Polarization: Horizontal

Standard: (RE)FCC PART 15C\_Class B\_3m Power Source: DC 1.5V

Test item: Radiation Test (Above 1GHz) Temp.(C)/Hum.(%RH): 24.3( C)/55%RH

Test Mode: TX(2441 MHz) Distance: 3m



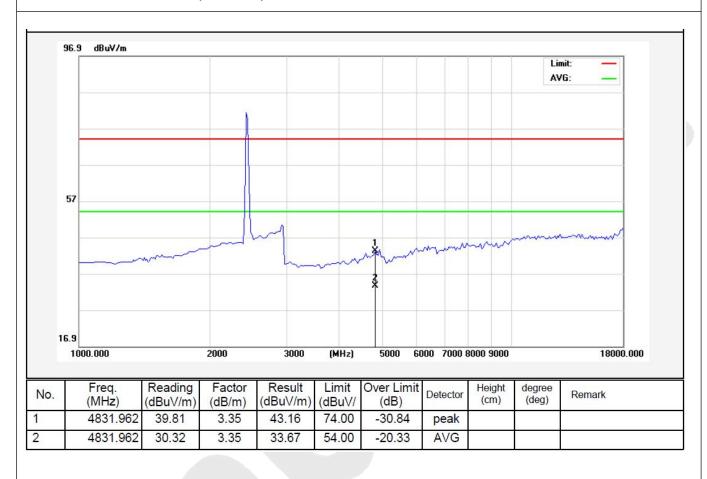


Job No.: 011508067I Polarization: Vertical

Standard: (RE)FCC PART 15C\_Class B\_3m Power Source: DC 1.5V

Test item: Radiation Test (Above 1GHz) Temp.(C)/Hum.(%RH): 24.3( C)/55%RH

Test Mode: TX(2441 MHz) Distance: 3m



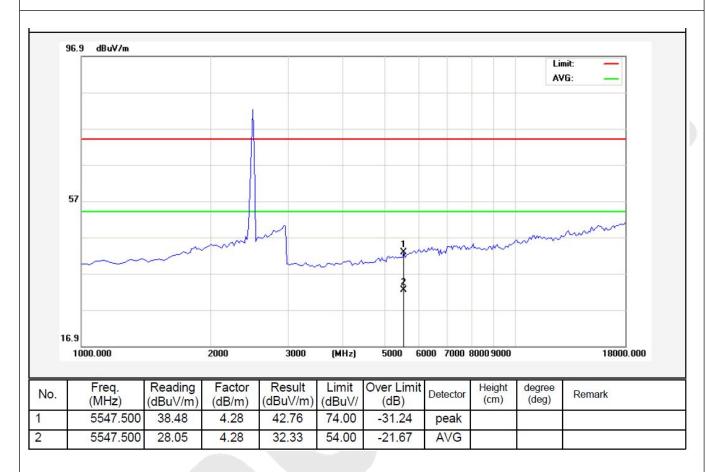


Job No.: 011508067I Polarization: Horizontal

Standard: (RE)FCC PART 15C\_Class B\_3m Power Source: DC 1.5V

Test item: Radiation Test (Above 1GHz) Temp.(C)/Hum.(%RH): 24.3( C)/55%RH

Test Mode: TX(2480 MHz) Distance: 3m



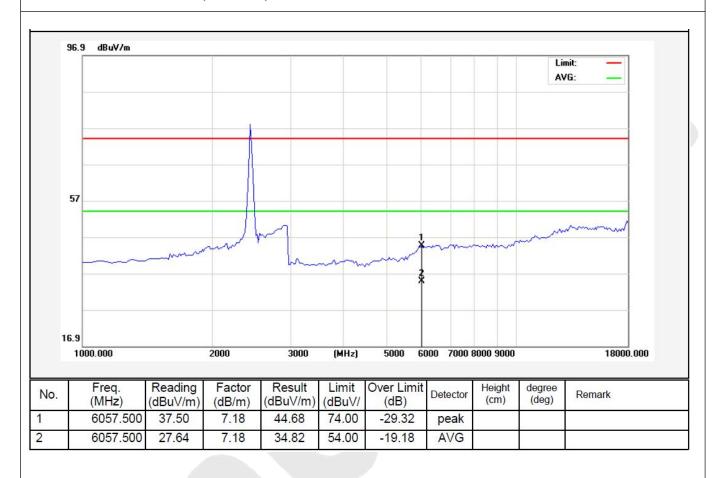


Job No.: 011508067I Polarization: Vertical

Standard: (RE)FCC PART 15C\_Class B\_3m Power Source: DC 1.5V

Test item: Radiation Test (Above 1GHz) Temp.(C)/Hum.(%RH): 24.3( C)/55%RH

Test Mode: TX(2480 MHz) Distance: 3m





# 4. CHANNEL SEPARATION TEST

### 4.1 Measurement Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer settings:

- 1. Span= Wide enough to capture the peaks of two adjacent channels
- 2. Set the RBW = 30 kHz.
- 3. Set the VBW = 100 kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

### 4.2 Test SET-UP

EUT Spectrum analyzer

4.3 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Apr. 17, 2015	1 Year
2.	Preamplifier	Instruments corporation	EMC01183 0	980100	Apr. 17, 2015	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 17, 2015	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Apr. 20, 2015	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 20, 2015	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Apr. 17, 2015	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A



## 4.4 Test Results

Test Item : Frequency Separation Test Mode : CH Low ~ CH High

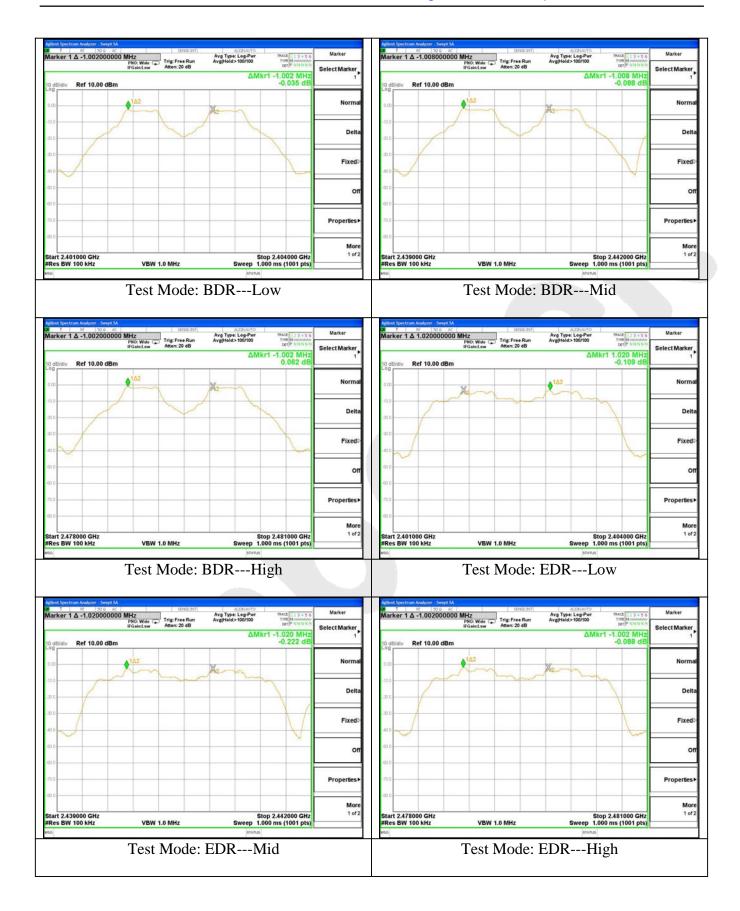
Test Voltage : DC 1.5V Temperature :  $24^{\circ}$ C Test Result : PASS Humidity :  $55^{\circ}$ RH

Channel	Frequency	Separation Read	Limit	Modulation
Chamiei	(MHz)	Value (kHz)	(kHz)	Mode
Low	2401	1002	928.5	BDR
Mid	2441	1008	927.4	BDR
High	2480	1002	927.1	BDR
Low	2401	1020	838.7	EDR
Mid	2441	1020	838.7	EDR
High	2480	1002	836.7	EDR

### Remark:

1. The limit of mode (EDR) is 2/3 of 20dB BW;







# 5. 20DB BANDWIDTH TEST

### 5.1 Measurement Procedure

Using the following spectrum analyzer settings:

- 1. Span= approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel.
- 2. Set the RBW = 30 kHz.
- 3. Set the VBW = 100 kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

#### 5.2 Test SET-UP

EUT Spectrum analyzer

## 5.3 Test Equipment

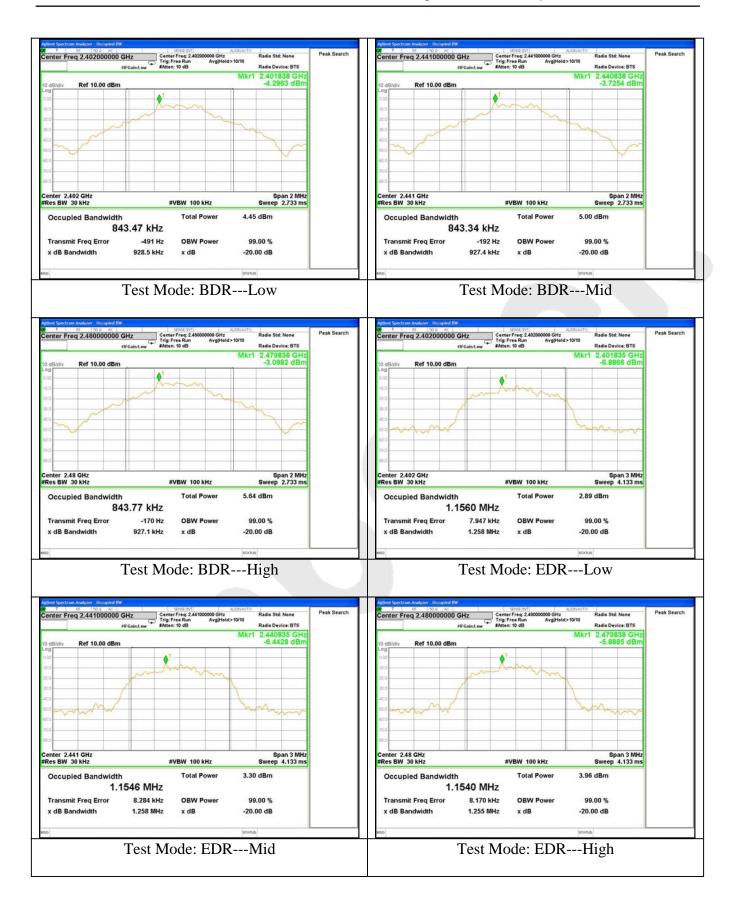
Same as the equipment listed in 4.3.

#### 5.4 Test Results

Test Item : 20dB BW Test Mode : CH Low ~ CH High

Channel	Frequency (MHz)	20dB Down BW(kHz)	Modulation Mode
Low	2401	928.5	BDR
Mid	2441	927.4	BDR
High	2480	927.1	BDR
Low	2401	1258.0	EDR
Mid	2441	1258.0	EDR
High	2480	1255.0	EDR







# 6. QUANTITY OF HOPPING CHANNEL TEST

### 6.1 Measurement Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer setting:

- 1. Span= the frequency band of operation
- 2. Set the RBW = 1 MHz.
- 3. Set the VBW = 1 MHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

#### 6.2 Test SET-UP

EUT Spectrum analyzer

# 6.3 Test Equipment

Same as the equipment listed in 4.3.

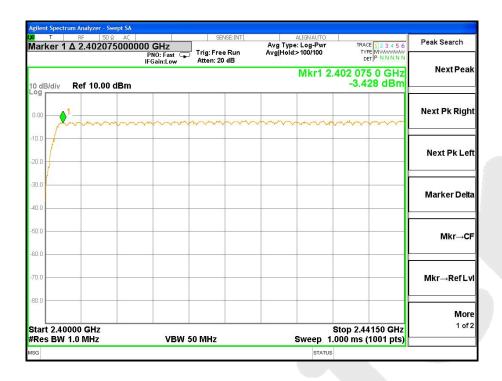
### 6.4 Test Results

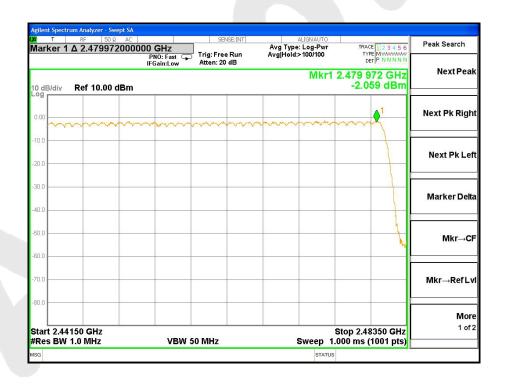
Test Item : Number of Hopping Test Mode : CH Low ~ CH High

Frequency

Hopping Channel	Quantity of Hopping	Quantity of Hopping
Frequency Range	Channel	Channel
2402-2480	79	>15









# 7. DWELL TIME TEST

#### 7.1 Measurement Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span= zero span, centered on a hopping channel
- 2. Set the RBW = 1 MHz.
- 3. Set the VBW = 1 MHz.
- 4. Sweep time = as necessary to capture the entire dwell time per hopping channel.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

### 7.2 Test SET-UP

EUT Spectrum analyzer

### 7.3 Test Equipment

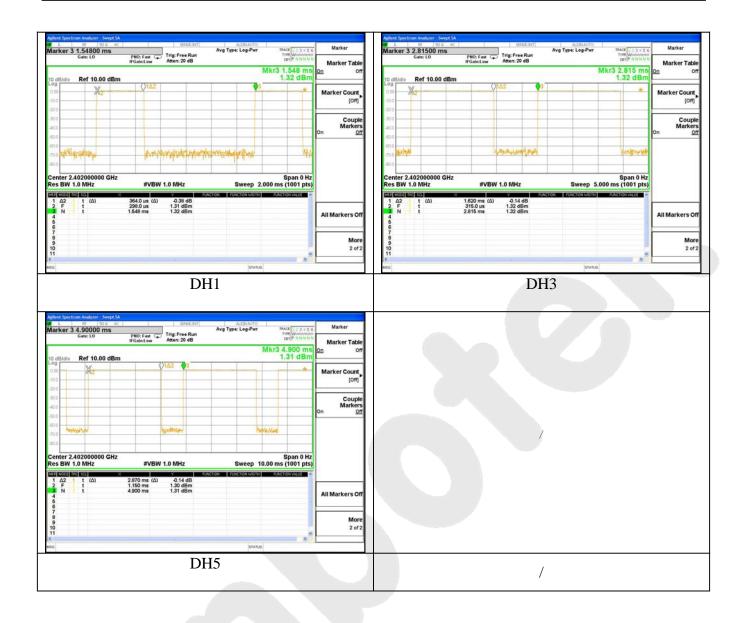
Same as the equipment listed in 4.3.

#### 7.4 Test Results

Test Item : Time of Occupancy Test Mode : CH Low ~ CH High

Package Type	Pulse width (ms)	Time slot length(ms)	Dwell time (ms)	Limit (s)
DH1	0.364	time slot length *1600/2 /79 * 31.6	116.48	0.4
DH3	1.620	time slot length *1600/4 /79 * 31.6	259.20	0.4
DH5	2.870	time slot length *1600/6 /79 * 31.6	306.13	0.4







### 8. MAX IMUM PEAK OUTPUT POWER TEST

#### 8.1 Measurement Procedure

- a. Check the calibration of the measuring instrument(SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. The center frequency of the spectrum analyzer is set to the fundamental frequency and using proper RBW and VBW setting.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

Using the following spectrum analyzer settings:

- 1. Span= approximately 5 times the 20dB bandwidth, centered on a hopping channel
- 2. Set the RBW = 3 MHz.
- 3. Set the VBW = 3 MHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

#### 8.2 Test SET-UP



# 8.3 Test Equipment

Same as the equipment listed in 4.3.

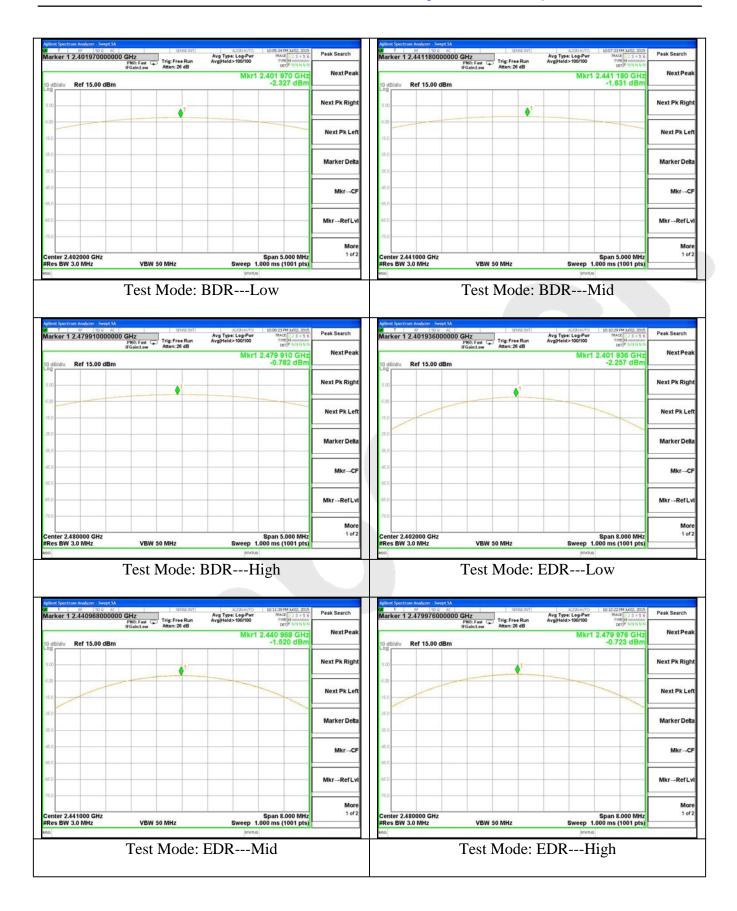


# 8.4 Test Results

Test Item : Max. peak output power Test Mode : CH Low ~ CH High

Channel Frequency (MHz)	Peak Power output(mW)	Peak Power output(dBm)	Peak Power Limit(mW)	Results	Modulation
2402	0.585	-2.327	1000	PASS	BDR
2441	0.687	-1.631	1000	PASS	BDR
2480	0.835	-0.782	1000	PASS	BDR
2402	0.595	-2.257	125	PASS	EDR
2441	0.705	-1.520	125	PASS	EDR
2480	0.847	-0.723	125	PASS	EDR







### 9. BAND EDGE TEST

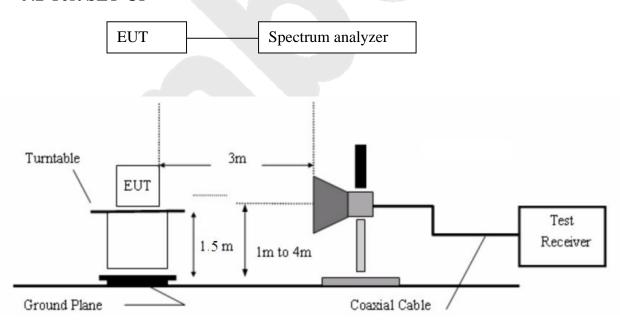
#### 9.1 Measurement Procedure

- A) Conducted Emission method:
- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set both RBW and VBW of spectrum analyzer to 100kHz with a convenient frequency span including 100kHz bandwidth from band edge,
- 4. Measurement the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Report above procedures until all measured frequencies were complete.

#### B) Radiated Emission method:

The EUT is placed on a turn table which is 1.5 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. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. for Radiated emissions restricted band RBW= 1 MHz, VBW= 3 MHz.

#### 9.2 Test SET-UP





# 9.3 Test Equipment

Same as the equipment listed in 4.3.

## 9.4 Test Results

Pass.

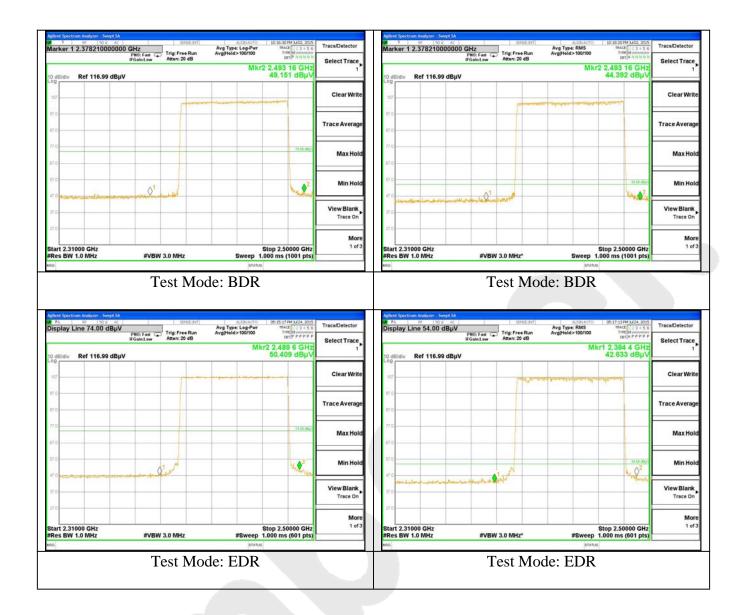
Please refer the following data.

Test Item : Band eadge : CH Low ~ CH High

Test Voltage : DC 1.5V Temperature :  $24^{\circ}$ C Test Result : PASS Humidity : 55%RH

# **For Hopping Mode:**







Test Item : Band eadge : CH Low ~ CH High

Test Voltage : DC 1.5V Temperature :  $24^{\circ}$ C Test Result : PASS Humidity :  $55^{\circ}$ RH

# For Non-Hopping Mode:

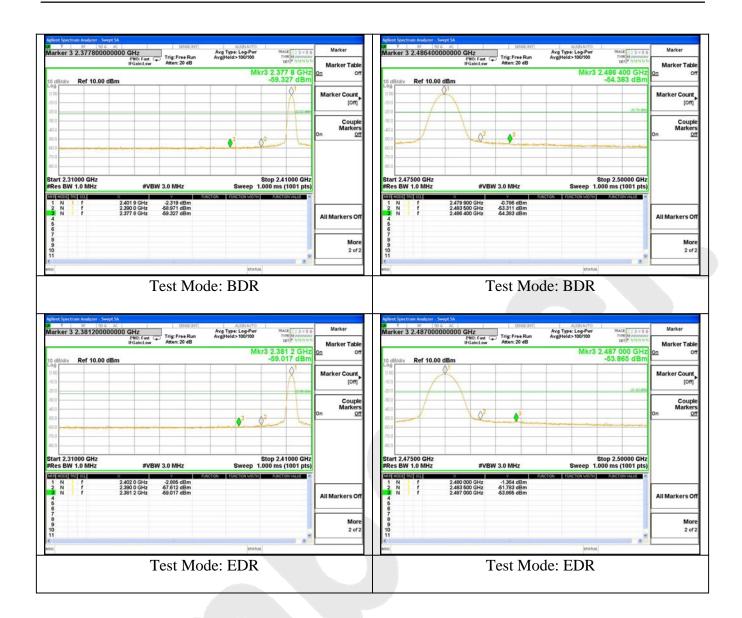
### 1. Conducted Test

Frequency	Peak Power	Emission read	Result of Band	Band edge	Modulation
(MHz)	Output(dBm)	Value(dBm)	edge(dBc)	Limit(dBc)	
<2400	-2.319	-58.971	56.652	>20dBc	BDR
<2400	-2.885	-57.612	54.727	>20dBc	EDR
>2483.5	-0.786	-53.311	52.525	>20dBc	BDR
>2465.3	-1.364	-51.783	50.419	>20dBc	EDR

#### 2. Radiated emission Test

2. Radiated emission Test						
Frequency (MHz)	Antenna polarization	Emission (dBuV/m)		Band edge Limit (dBuV/m)		Modulation
(=====)	(H/V)	PK	AV	PK	AV	
<2400	V	56.21	39.21	74.00	54.00	BDR
	V	53.58	37.69	74.00	54.00	EDR
>2483.5	V	55.37	37.57	74.00	54.00	BDR
	V	52.90	34.32	74.00	54.00	EDR







# 10. ANTENNA APPLICATION

# 10.1 Antenna requirement

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247.

### FCC part 15C section 15.247 requirements:

Systems operating in the 2402-2480MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

#### 10.2 Result

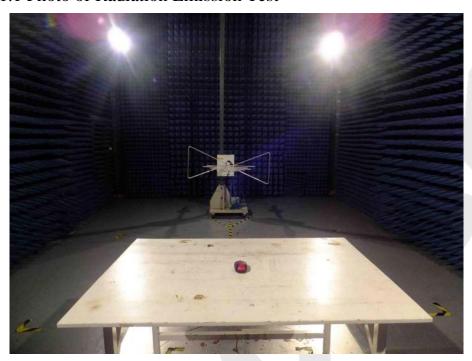
The EUT's antenna used a PCB Antenna, The antenna's gain is 0.1763dBi and meets the requirement.





# 11. PHOTOGRAPH

# 11.1 Photo of Radiation Emission Test







# **APPENDIX I (EXTERNAL PHOTOS)**

Figure 1
The EUT-Series View









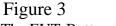




Figure 4
The EUT-Front View





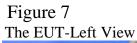




Figure 6
The EUT-Right View











# **APPENDIX II (INTERNAL PHOTOS)**

Figure 8
The EUT-Inside View

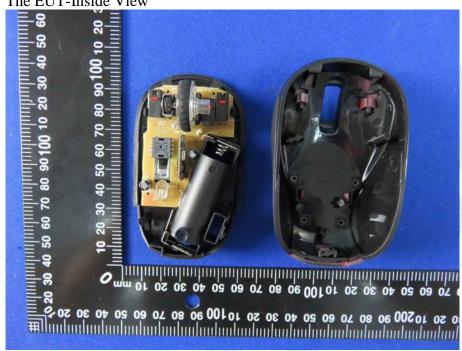


Figure 9
PCB of the EUT-Front View

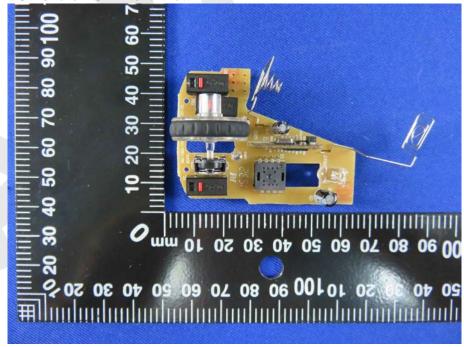




Figure 10 PCB of the EUT-Back View

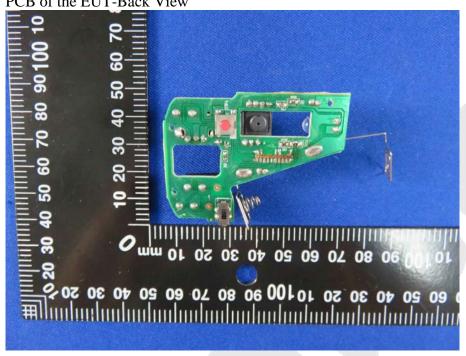


Figure 11 PCB of the EUT-Front View

