

# FCC TEST REPORT for Wintop Electronics Co., Ltd.

2.4GHz Wireless Optical Mouse Model No.: WM-710

Prepared for : Wintop Electronics Co., Ltd.

Address : Huaguan Industrial Park, Xinhe Road, Shangmugu, Pinghu

Town, Longgang District, Shenzhen City, China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

Address : 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road,

Nanshan District, Shenzhen, Guangdong, China

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Report Number : 201310701F

Date of Test : Oct. 11~ Nov. 06, 2013

Date of Report : Nov. 07, 2013



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APPENDIX I (External Photos) (1 Pages) APPENDIX II (Internal Photos) (2 Pages)



#### TEST REPORT

Applicant : Wintop Electronics Co., Ltd.

Manufacturer : Shenzhen Wintop Electronics Co. Limited

EUT : 2.4GHz Wireless Optical Mouse

Model No. : WM-710

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

Rating : DC 3V, 8mA

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:	Oct. 11~ Nov. 06, 2013
Prepared by:	Zock reng
	(Tested Engineer / Rock Zeng)
Reviewer:	Sally. Zhang
	(Project Manager / Sally Zhang )
Approved & Authorized Signer :	Ton Chen
	(Manager / Tom Chen)



#### 1. GENERAL INFORMATION

#### 1.1. Description of Device (EUT)

EUT : 2.4GHz Wireless Optical Mouse

Model Number : WM-710

Test Power Supply: DC 3.0V

Frequency : 2402-2480MHz

No. of Channel: 79

Channel Space : 1MHz

Antenna : Printed Antenna: 1.52 dBi

Specification

Applicant : Wintop Electronics Co., Ltd.

Address : Huaguan Industrial Park, Xinhe Road, Shangmugu, Pinghu Town,

Longgang District, Shenzhen City, China

Manufacturer : 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 receiver : Oct. 11, 2013

Date of Test : Oct. 11~ Nov. 06, 2013



# 1.2. Auxiliary Equipment Used during Test

PC : Manufacturer: DELL

M/N: OPTIPLEX 380

S/N: 1J63X2X CE , FCC: DOC

MONITOR : Manufacturer: DELL

M/N: E170Sc

S/N: CN-00V539-64180-055-0UPS

CE, FCC: DOC

KEYBOARD : Manufacturer: DELL

M/N: SK-8115

S/N: CN-0DJ313-71616-06C-02XN

CE, FCC: DOC

Cable: 1m, unshielded

Printer : Manufacturer:Brother

M/N: MFC-3360C

S/N: N/A

CE, FCC:DOC

Power Line : Non-Shielded, 1.5m

VGA Cable : Non-Shielded, 1.5m

Network Cable : Non-Shielded, 1.5m



## 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-1, 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 = 4.3 dB

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.

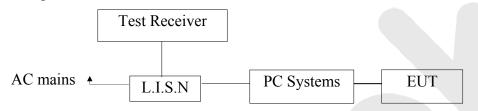
When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.



# 3. Conducted Limits

#### 3.1. Block Diagram of Test Setup

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



(EUT: 2.4GHz Wireless Optical Mouse)

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

Frequency	Limits dB(μV)					
MHz	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.

EUT : 2.4GHz Wireless Optical Mouse

Model Number : WM-710

Applicant : Wintop Electronics Co., Ltd.



## 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 (ON) 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.

**Test Equipment** 

Iter	n Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Two-Line V-network	Rohde & Schwarz	ENV216	10055	Apr. 23, 2013	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Apr. 23, 2013	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Apr. 23, 2013	1 Year

# 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

EUT: 2.4GHz Wireless Optical Mouse M/N: WM-710

Operating Condition: ON

Test Site: 1# Shielded Room Operator: Bevan Zhang

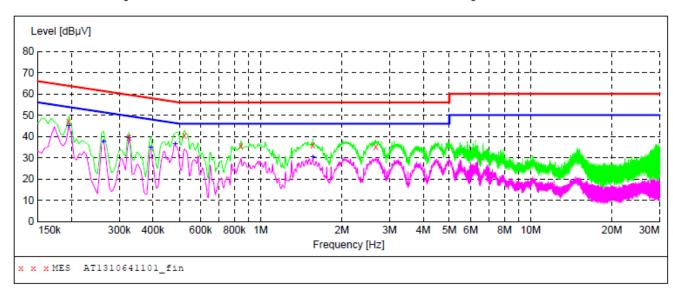
Test Specification: AC 120V/60Hz for PC

Comment: Live Line

Tem:25℃ Hum:50%

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

Short Description: 150K-30M Disturbance Voltages



#### MEASUREMENT RESULT: "AT1310641101 fin"

10/12/2013 2:51PM								
Frequency	/ Level	Transd	Limit	Margin	Detector	Line	PE	
MH2	z dBµV	dB	dΒμV	dB				
0.195000	47.20	20.1	64	16.6	QP	L1	GND	
0.325500	39.80	20.1	60	19.8	QP	L1	GND	
0.523500	40.70	20.1	56	15.3	QP	L1	GND	
0.847500	35.60	20.1	56	20.4	QP	L1	GND	
1.562500	36.00	20.3	56	20.0	QP	L1	GND	
2.669500	35.20	20.4	56	20.8	QP	L1	GND	

#### MEASUREMENT RESULT: "AT1310641101 fin2"

10/12/2013 Frequency MHz	Level	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	45.10	20.1	54	8.7	AV	L1	GND
0.262500	37.50	20.1	51	13.9	AV	L1	GND
0.325500	39.20	20.1	50	10.4	AV	L1	GND
0.393000	34.80	20.1	48	13.2	AV	L1	GND
0.483000	36.40	20.1	46	9.9	AV	L1	GND
1.562500	30.10	20.3	46	15.9	AV	L1	GND



#### CONDUCTED EMISSION TEST DATA

EUT: 2.4GHz Wireless Optical Mouse M/N: WM-710

Operating Condition: ON

Test Site: 1# Shielded Room Operator: Bevan Zhang

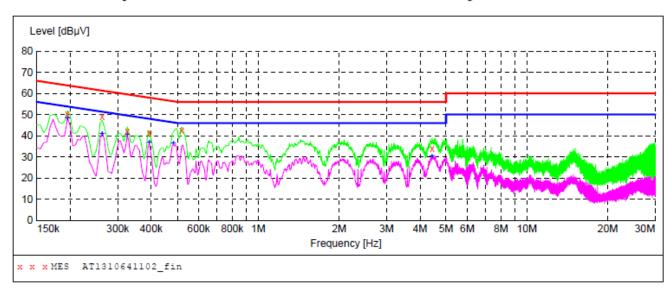
Test Specification: AC 120V/60Hz for PC

Comment: Neutral Line

Tem:25°C Hum:50%

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

Short Description: 150K-30M Disturbance Voltages



#### MEASUREMENT RESULT: "AT1310641102 fin"

10/12/20 Frequ			Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.19	95000	50.30	20.1	64	13.5	QP	N	GND
0.26	52500	49.10	20.1	61	12.3	QP	N	GND
0.32	25500	42.20	20.1	60	17.4	QP	N	GND
0.39	93000	41.30	20.1	58	16.7	QP	N	GND
0.51	19000	42.50	20.1	56	13.5	QP	N	GND
4.43	33500	34.10	20.5	56	21.9	OP	N	GND

#### MEASUREMENT RESULT: "AT1310641102\_fin2"

10/12/2013	2:54PM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	48.30	20.1	54	5.5	AV	N	GND
0.262500	40.90	20.1	51	10.5	AV	N	GND
0.325500	40.50	20.1	50	9.1	AV	N	GND
0.393000	36.90	20.1	48	11.1	AV	N	GND
0.483000	36.40	20.1	46	9.9	AV	N	GND
4.438000	30.30	20.5	46	15.7	AV	N	GND



#### 4. Radiation Interference

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

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 dB $\mu$ V/m @3m 54 dB $\mu$ V/m @3m ABOVE 960 MHz 54dBuV/m

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 4.3.

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	EMC01183 0	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.	Pre-amplifier	SONOMA	310N	186860	Apr. 23, 2013	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A

Radiation Uncertainty : Ur = 4.3 dB

**Distance:** 

3m



#### 4.3 Test Results

PASS.

Please refer the following pages.

Data:

#### **Below 1GHz:**

Job No.: AT1310641F Polarziation: Horizontal Standard: (RE)FCC PART15 C \_3m Power Source: DC 3.0V

Test item:

Radiation Test

Date:

2013/10/12

Temp.(C)/Hum.(%RH):

24.3( C)/55%RH

Time:

21:20:49

EUT:

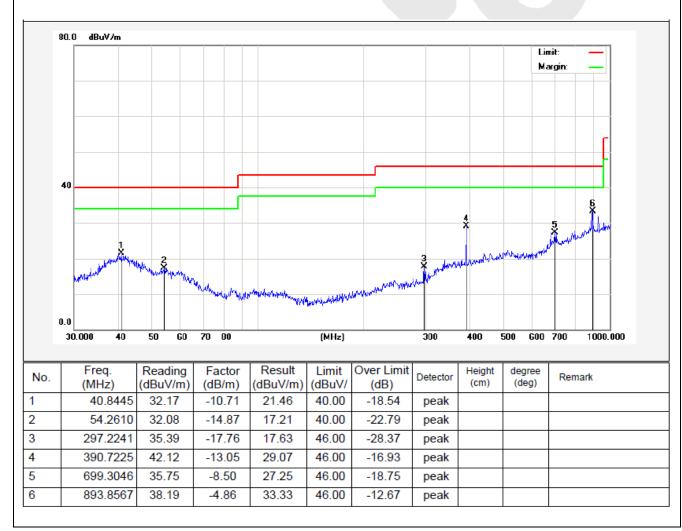
Z4GHz Wireless Optical Mouse

Test By:

Kebo Zhang

Model: WM-710 Mode: ON

Note: 30-1000MHz





Job No.: AT1310641F

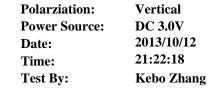
Standard: (RE)FCC PART15 C \_3m

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

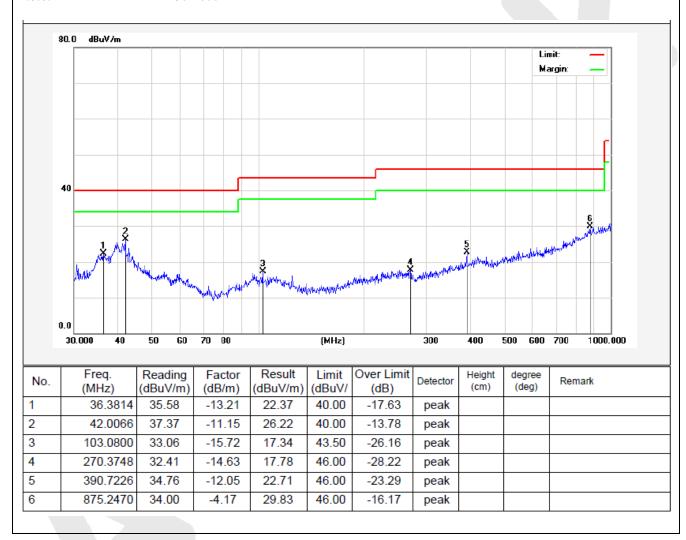
**EUT:** 2.4GHz Wireless Optical Mouse

Model: WM-710 Mode: ON

Note: 30-1000MHz









#### **Above 1 GHz:**

Horizont	ai
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 2402.000 4804.000 4804.000 7206.000 7206.000 9608.000 9608.000 12010.000	2.17 2.17 2.56 2.56 2.98 2.98	31.21 31.21 34.01 34.01 36.16 36.16	35.30 35.30 34.71 34.71 35.15 35.15	91.37 84.21 42.76 37.12 43.44 29.05	89.45 82.29 44.62 38.98 47.43 33.04	114.0 94.0 74.0 54.0 74.0 54.0	-24.55 -11.71 -29.38 -15.02 -26.57 -20.96	Peak AV Peak AV Peak AV
12010.000								

-**--**

Vertical

CH Low (2402MHz)

CILLOW	(24021111	<i>L</i> )						
Frequency	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
MHz	dB	dB/m	dB	dBμV	$dB\mu V/m \\$	$dB\mu V/m \\$	dB	
2402.000	2.17	31.21	35.30	89.87	87.95	114.0	-26.05	Peak
2402.000	2.17	31.21	35.30	81.69	79.77	94.0	-14.23	AV
4804.000	2.56	34.01	34.71	43.05	44.91	74.0	-29.09	Peak
4804.000	2.56	34.01	34.71	37.72	39.58	54.0	-14.42	AV
7206.000	2.98	36.16	35.15	41.55	45.54	74.0	-28.46	Peak
7206.000	2.98	36.16	35.15	34.55	38.54	54.0	-15.46	AV
9608.000								
9608.000								
12010.000								
12010.000								

---



Horizontal CH Middle (2442MHz)

Frequency	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
MHz	dB	dB/m	dB	$dB\mu V$	$dB\mu V/m \\$	$dB\mu V/m \\$	dB	
2442.000	2.19	31.22	34.60	93.08	91.89	114.0	-22.11	Peak
2442.000	2.19	31.22	34.60	82.97	81.78	94.0	-12.22	AV
4884.000	2.57	35.00	34.58	42.15	45.14	74.0	-28.86	Peak
4884.000	2.57	35.00	34.58	39.76	42.75	54.0	-11.25	AV
7326.000	3.00	36.17	35.14	41.66	45.69	74.0	-28.31	Peak
7326.000	3.00	36.17	35.14	38.09	42.12	54.0	-11.88	AV
9768.000								
9768.000								
12210.000							-	

---

Vertical

CH Middle (2442MHz)

Frequency	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
MHz	dB	dB/m	dB	$dB\mu V$	$dB\mu V/m$	$dB\mu V/m$	dB	
2442.000	2.19	31.22	34.60	90.72	89.53	114.0	-24.47	Peak
2442.000	2.19	31.22	34.60	83.29	82.10	94.0	-11.90	AV
4884.000	2.57	35.00	34.58	44.94	47.93	74.0	-26.07	Peak
4884.000	2.57	35.00	34.58	40.01	43.00	54.0	-11.00	AV
7326.000	3.00	36.17	35.14	41.35	45.38	74.0	-28.62	Peak
7326.000	3.00	36.17	35.14	36.65	40.68	54.0	-13.32	AV
9768.000								
9768.000								
12210.000								

---



Horizonta	1
CH High	(2480MHz)

Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBµV	Level dBµV/m	$\begin{array}{c} Limit \\ dB\mu V/m \end{array}$	Over Limit dB	Remark
2480.000	2.20	31.65	36.00	94.05	91.9	114.0	-22.10	Peak
2480.000	2.20	31.65	36.00	82.67	80.52	94.0	-13.48	AV
4960.000	2.58	35.06	34.79	44.51	47.36	74.0	-26.64	Peak
4960.000	2.58	35.06	34.79	35.01	37.86	54.0	-16.14	AV
7440.000	3.02	36.19	34.90	44.76	49.07	74.0	-24.93	Peak
7440.000	3.02	36.20	35.20	36.22	40.24	54.0	-13.76	AV
9920.000								
9920.000								
12400.000								
12400.000							7-	

---

Vertical	
CH High (2480MHz)	)

C11 111511 (2	, 100111112)							
Frequency	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
MHz	dB	dB/m	dB	$dB\mu V$	$dB\mu V/m$	$dB\mu V/m \\$	dB	
2480.000	2.20	31.65	36.00	92.35	90.20	114.0	-23.80	Peak
2480.000	2.20	31.65	36.00	82.89	80.74	94.0	-13.26	AV
4960.000	2.58	35.06	34.79	43.54	46.39	74.0	-27.61	Peak
4960.000	2.58	35.06	34.79	36.33	39.18	54.0	-14.82	AV
7440.000	3.02	36.19	34.90	41.21	45.52	74.0	-28.48	Peak
7440.000	3.02	36.20	35.20	36.83	40.85	54.0	-13.15	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.

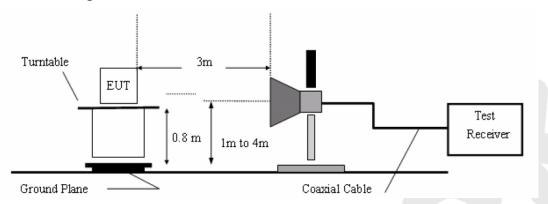
Test Equipment

	1 est 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	EMC01183 0	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.	Pre-amplifier	SONOMA	310N	186860	Apr. 23, 2013	1 Year		
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A		

Radiation Uncertainty : Ur = 4.3 dB



# 5.3. Test Configuration:



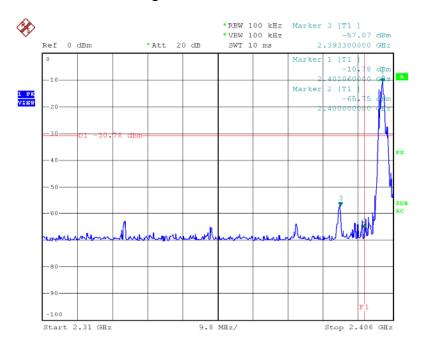


#### 5.4. Test Results

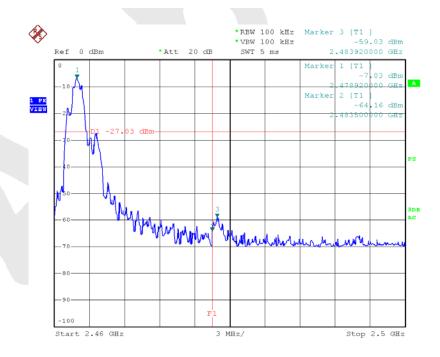
Pass.

Please refer the following plot.

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

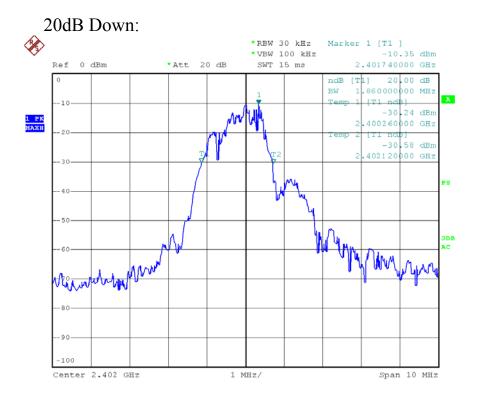


Date: 3.SEP.2013 17:43:56

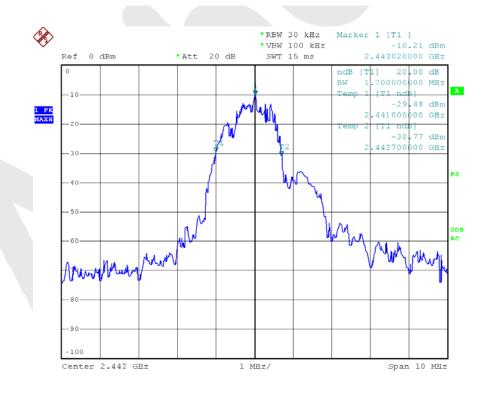


Date: 3.SEP.2013 17:31:05



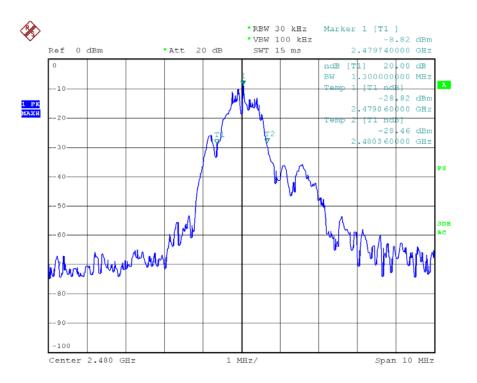


Date: 3.SEP.2013 17:21:43



Date: 3.SEP.2013 17:24:26











# 6. PHOTOGRAPH









# 6.2. Photo of Radiation Emission Test







# **APPENDIX I (External Photos)**

Figure 1
The EUT-Front View



Figure 2
The EUT-Back View



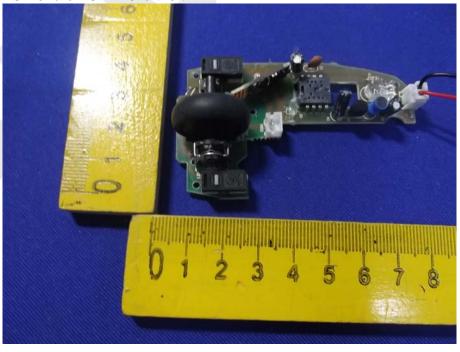


# **APPENDIX I** (Internal Photos)

Figure 3
The EUT-Inside View



Figure 4 PCB of the EUT-Front View







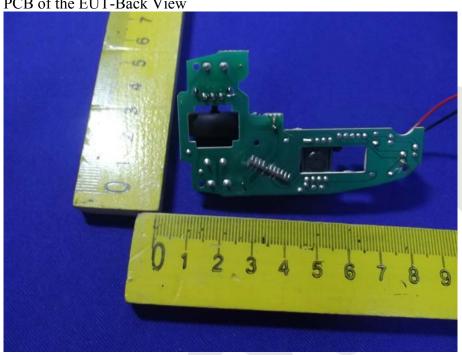


Figure 6
PCB of the EUT-Front View

