





ISO/IEC17025 Accredited Lab.

Report No: FCC1010126-01 File reference No: 2010-10-22

Applicant: Zaidtek Electronic Technology (Xiamen) Co., Ltd

Product: Receiver

Model No: HR004

Brand Name: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: October 22, 2010

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The 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 No.: 899988.

IC- Registration No.: IC5205A-01

The 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 IC No.: 5205A-01.



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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,

Shenzhen, CHINA.

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Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-01

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Zaidtek Electronic Technology (Xiamen) Co., Ltd.

Address: No.285, Wengjiao Road, Haicang District, Xiamen, Fujian, China

Telephone: +86-592-6881635 Fax: +86-592-6881611

1.3 Description of EUT

Product: Receiver

Manufacturer: Zaidtek Electronic Technology (Xiamen) Co., Ltd.

Brand Name: N/A

Model Number: HR004

Additional Model Name N/A

Additional Trade Name N/A

Rating: DC 5V

Modulation Type: FSK

Operation Frequency 2406-2480MHz

Antenna Designation PCB printed antenna and the maximum gain is -0.5dBi.

1.4 Submitted Sample

1 Sample

1.5 Test Duration

2010-10-19 to 2010-10-22

The report refers only to the sample tested and does not apply to the bulk.

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Terry Tang

2.0		Test Equi	pments		
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2009-12-05	2010-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2009-12-05	2010-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2009-12-05	2010-12-04
Ultra Broadband ANT	Schwarebeck	VULB9163	9163/340	2009-12-05	2010-12-04
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2010-03-29	2011-03-28
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2010-02-17	2011-02-16
Power meter	Anritsu	ML2487A	6K00003613	2010-02-17	2011-02-16
Power sensor	Anritsu	MA2491A	32263	2010-02-17	2011-02-16
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2010-02-17	2011-02-16
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2010-08-13	2011-08-12
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2010-07-03	2011-07-02
Loop Antenna	EMCO	6502	00042960	2010-02-17	2011-02-16
Pre-amplifier	EM	EM30265	2727A05017	2010-05-14	2011-05-13

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3.0 **Technical Details**

3.1 **Summary of test results**

The EUT has been tested according to the	ne following speci	fications:	
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

3.2 **Test Standards**

FCC Part 15 Subpart C, Paragraph 15.249

4.0 **EUT Modification**

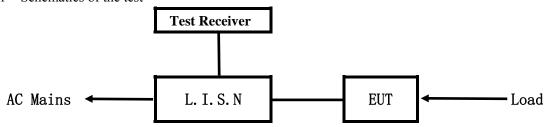
No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

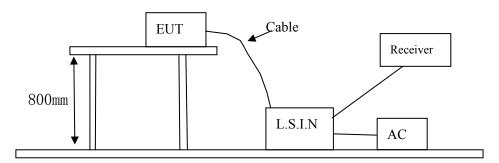


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Receiver	Zaidtek Electronic Technology (Xiamen) Co.,	HR004	YVYHYXHR004
	Ltd.		

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
Keyboard	DELL		FCC DOC	Data cable of 1.5m length
PC	IBM	R400	FCC DOC	
				Data cable of 1.5m length unshielded
Monitor	BENQ	FP51G	FCC DOC	and 1.8m length AC Mains cable

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Eroguanay(MHz)	Class A Lir	nits (dB µ V)	Class B Lim	nits (dB \mu V)
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

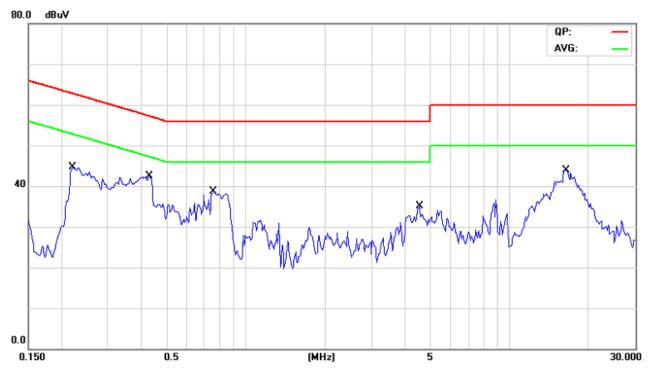
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Normal operation mode

Equipment Level: Class B

Results: Pass

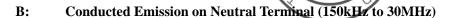
Please refer to following diagram for individual



Frequency	Line	Reading(dBμV)	Limit(dBμV)
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.2203	N	42.61	26.01	62.80	52.80
0.7555	N	31.05	15.25	56.00	46.00
0.4352	N	40.62	25.84	57.15	47.15
4.5508	N	29.97	21.70	56.00	46.00
16.4336	N	37.72	31.05	60.00	50.00

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EUT Operating Environment

Humidity: 75%RH Atmospheric Pressure: 101 KPa Temperature: 25°C

EUT set Condition: Normal operation mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency	Line	Reading(dBμV)	Limit(dBμV)
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.2047	L	47.36	30.73	63.41	53.41
0.4195	L	47.06	33.53	57.46	47.46
3.4766	L	43.78	33.15	56.00	46.00
16.8750	L	36.58	30.57	60.00	50.00

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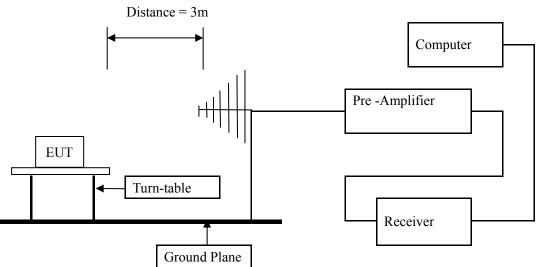
Date: 2010-10-22



6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup



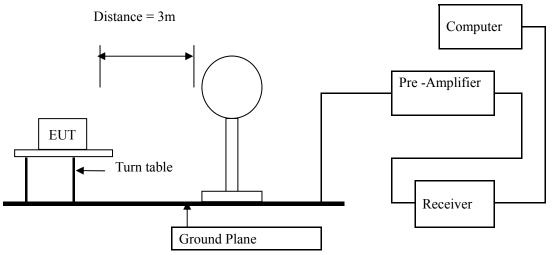
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Block diagram of Test setup for frequency below 30MHz



Configuration of The EUT Same as section 5.3 of this report

EUT Operating Condition
Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Stre	Field Strength of Fundamental (3m)			trength of Harmo	onics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log 2400/F (kHz) + 40
0.490-1.705	3	20log 24000/F (kHz) + 20
1.705-30	3	20log 30 + 20
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK and AV detector.
- 5. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 * (d2/d1)
- 6. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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6.5 Test result

\mathbf{A} **Fundamental & Harmonics Radiated Emission Data**

Product:	Receiver	Test Mode:	Constant Transmit at Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	DC 5V	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2406	84.3 (PK)	Н	114/94	
2406	82.6 (PK)	V	114/94	
4812		H/V	74/54	
7218		H/V	74/54	
9624		H/V	74/54	
12030		H/V	74/54	
14436		H/V	74/54	
16842		H/V	74/54	
19248		H/V	74/54	
21654		H/V	74/54	
24060		H/V	74/54	

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Product:	Receiver	Test Mode:	Constant Transmit at Middle Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	DC 5V	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2442	85.6 (PK)	Н	114/94	
2442	83.3 (PK)	V	114/94	
4884		Н	74/54	
4884		V	74/54	
7326		H/V	74/54	
9768		H/V	74/54	
12210		H/V	74/54	
14652		H/V	74/54	
17094		H/V	74/54	
19536		H/V	74/54	
21978		H/V	74/54	
24420		H/V	74/54	

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Product:	Receiver	Test Mode:	Constant Transmit at High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	DC 5V	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2480	84.6 (PK)	Н	114/94	
2480	82.1 (PK)	V	114/94	
4960		Н	74/54	
4960		V	74/54	
7440		H/V	74/54	
9920		H/V	74/54	
12400		H/V	74/54	
14880		H/V	74/54	
17360		H/V	74/54	
19840		H/V	74/54	
22320		H/V	74/54	
24800		H/V	74/54	

Note: (1) PK= Peak, AV= Average

- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) The measured PK value less than the AV limit.

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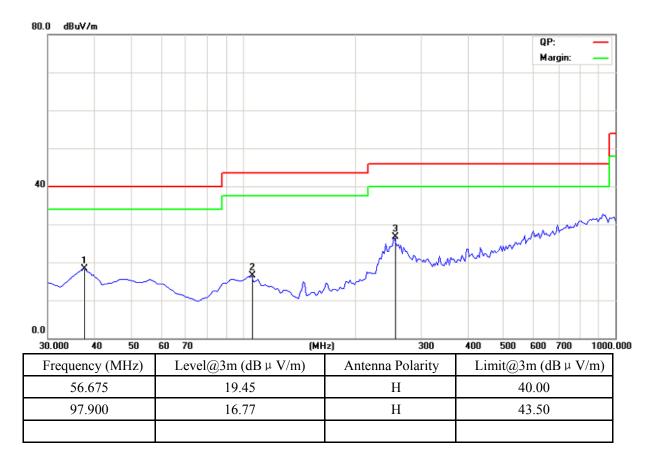
General Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting Mode: Normal work

Results: Pass

Please refer to following diagram for individual



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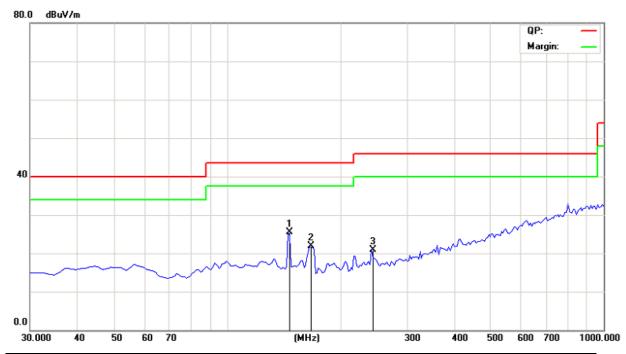


Radiated Emission In Vertical (30MHz---1000MHz

EUT set Condition: Keep transmitting Mode: Normal work

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB \u03ba V/m)	Antenna Polarity	Limit@3m (dB \u03ba V/m)
37.275	20.38	V	40.00
56.675	19.03	V	40.00

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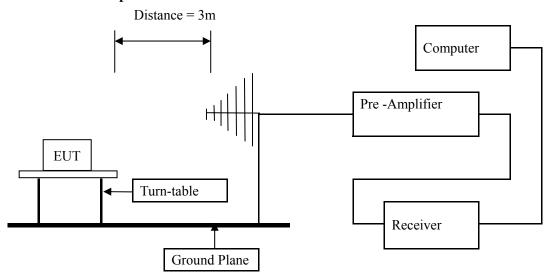


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) Set Spectrum as RBW=VBW=1MHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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 Section 15.209, whichever is the lesser attenuation.

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7.6 Test Result

Product:	Rec	ceiver	Test Mode:	Low Channel
Mode		Fransmitting	Test Voltage	DC 5V
Temperature		deg. C	Humidity	56% RH
Test Result:		Pass	Detector	PK
	PK (dBμV/m)	37.8		74(dBμV/m)
2390MHz	AV(dBμV/m)		Limit	54(dBμV/m)
	PK (dBµV/m)	38.2		74(dBμV/m)
2400MHz	AV(dBμV/m)		Limit	54(dBμV/m)
Ref Lvl 117 dB μ V	Marker 2	2 [T1] 46.37 dBμV .39000000 GHz	RBW 1 MI VBW 1 MI SWT 5 m:	Hz RFAtt 20 dB Hz
117			▼ 2	[T1] 46.37 dB μ V
110				2.39888888 GHz
			\triangledown_1	[T1] 88.55 dB μ V
100				2.40622 <mark>2</mark> 44 GHz
90				1
1MAX 80				1MA
70				
60				
50 Million Million	ther hall and half and the first of the firs	the home when the	Mummumulum.	was with a large of
40				
30				
20				
Start 2.3	1 GHz	9.7 M	Hz/	Stop 2.407 GHz
Date: 10.	OCT.2010 15:	19:48		

Note: 1. Field Strength in restrict band measured in conventional manner

2. Emission Level = Reading Level + Antenna Factor + Cable Loss- Pre-amplifier

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Product:		Re	eceiver	~	Test	Mode:		High Ch	nannel		
Mode	Keeping Transmitting				Voltage		DC 5V				
Temperature	24 deg. C			Humidity		56% RH					
Test Result:			Pass			etector	PK				
Test Result.	PK (d	lBμV/m)	38.2		1	Limit -		74(dBμV/m) 54(dBμV/m)			
2483.5MHz		$\frac{\mathrm{B}\mu\mathrm{V/m}}{\mathrm{B}\mu\mathrm{V/m}}$									
		Marker) [T1]		 RBW	1 M	<u> </u> ⊔→ D:	= Att	20 dB		
Ref Lvl		Hai Kei		9 dB <i>µ</i> V	VBW	1 M		ни	20 00		
117 dBμV		2	.483500		SWT			пit	dB μ V		
117		I			I	<u> </u>		1		1	
1 10						▼ 2	[T1]	46.	79 dBμV	A	
110						∇_1	[T1]	89.	06 dBµV		
						1		2.47998	, , , , , , , , , , , , , , , , , , ,		
100											
1											
90											
1MAX	\setminus									1MA	
80											
70											
60											
50											
30		Tank	leveloheren	hymulus	walah	an house	Mundh	Marulla	Lunder		
40											
30											
20											
17								_			
Start 2.4	78 GHz	7		2.2	MHz/			Stop	2.5 GHz		
Date: 10	.OCT.21	010 15	:21:31								

Note: 1. Field Strength in restrict band measured in conventional manner

2. Emission Level = Reading Level + Antenna Factor + Cable Loss- Pre-amplifier

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8.0 Antenna Requirement

Applicable Standard

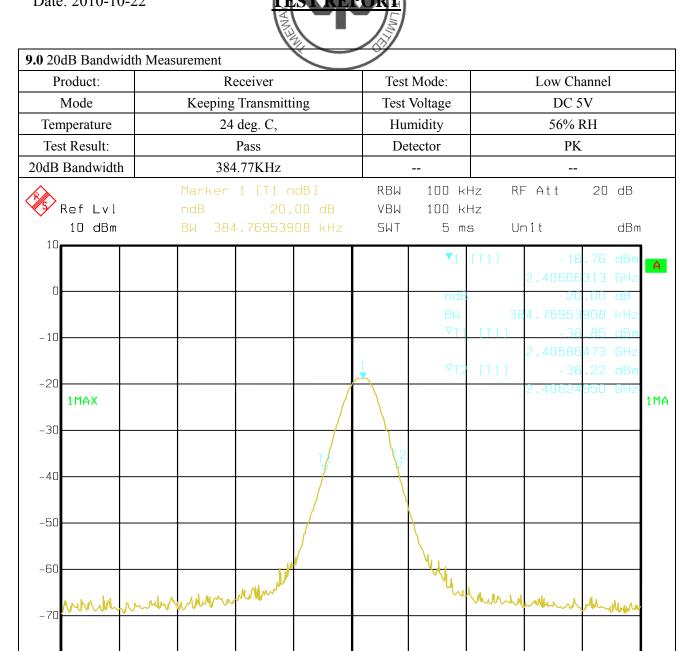
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

A PCB printed antenna is used in the wireless mouse Receiver, and the maximum Gain of the antenna is -0.5dBi. Test Result: Pass

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Span 3 MHz

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-80

Date:

Center 2.406 GHz

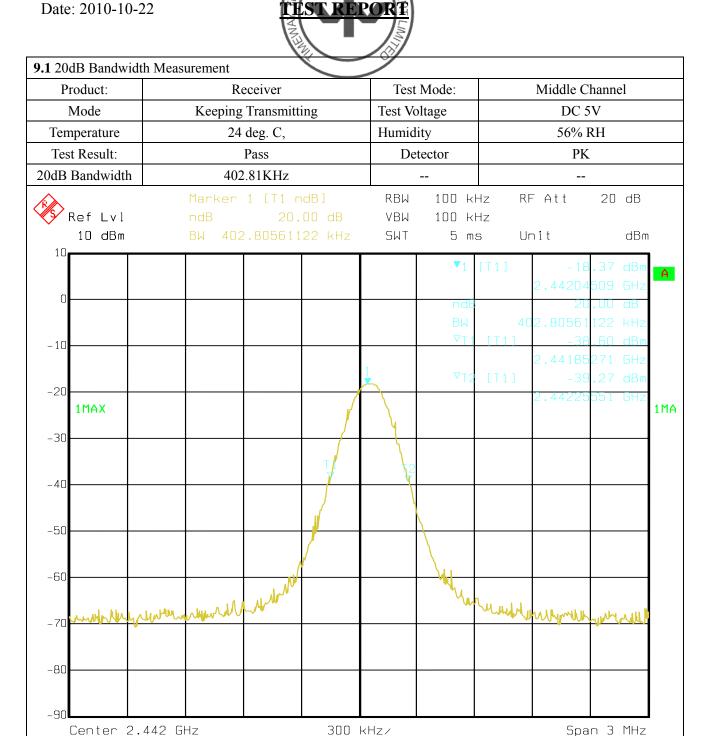
10.0CT.2010

15:13:07

300 kHz/

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10.0CT.2010

15:14:06

Date:

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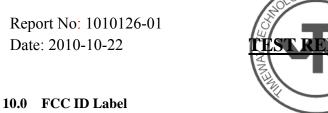


9.2 20dB Bandwidt	th Measurement									
Product:	Ro	eceiver		Test	Mode:		High Ch	annel		
Mode	Keeping	Transmitti	ing	Test Vo	Test Voltage		DC 5V			
Temperature	24	deg. C,		Humid	Humidity		56% RH			
Test Result:		Pass		De	Detector		PK			
20dB Bandwidth	426	5.85KHz								
Ref Lvl 10 dBm	ndB	1 [T1 n 20. 3.853707	00 dB	RBW VBW SWT	100 kl 100 kl 5 m:	Hz	Att nit	20	dB dBm	
10 -10 -20 1MAX -30 -40 -50 -60 -70	Linhan Mandala			1	ndB BW ∀T1	[T1]	-18 2.48006 -20 6.85370 -35 2.47983 -37 2.48026	914 .UU 741 .37 .467 .17 .152	GHz	1MA
-80										
Center 2. Date: 10.	48 GHz .OCT.2010 15	:15:16	300	kHz/			Spa	ın 3	MHz	

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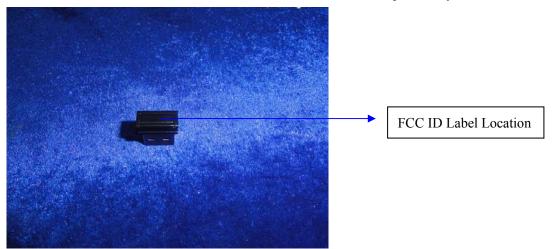
FCC ID: YVYHYXHR004

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:

The EUT is too small to locate the FCC ID label, so ID number is required only in this situation.



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11.0 Photo of testing

11.1 Conducted test View-



11.2 Radiated emission test view



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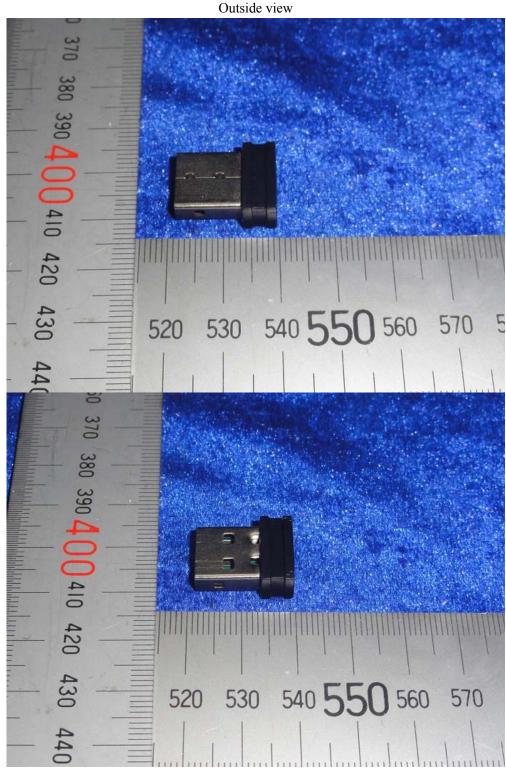
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11.3 Photo for the EUT



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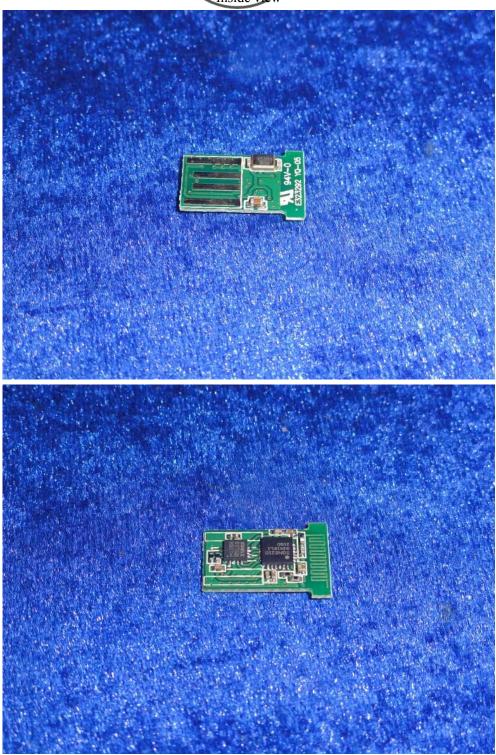
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