





ISO/IEC17025 Accredited Lab.

Report No: FCC0911188 File reference No: 2010-01-12

Applicant: Guangzhou Chiyuan Electronics Co., Ltd.

Product: RADIO CONTROL SYSTEM

Model No: N-4Q

Brand Name: xinyi

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: Jan 12, 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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Date: 2010-01-12



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.

Telephone: (755) 83448688 Fax: (755) 83442996

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: Guangzhou Chiyuan Electronics Co., Ltd.

Address: 2/F., No.1 Boyi Industrial Garden, 4th Gongye Rd. Zhicun Dashi Street, Panyu Dis.,

Guangzhou, China

Telephone: +86-20-34796226/34797226

Fax: +86-20-34796116

1.3 Description of EUT

Product: RADIO CONTROL SYSTEM

Manufacturer: Guangzhou Chiyuan Electronics Co., Ltd.

Brand Name: xinyi Model Number: N-4Q

Additional Model Name VR3T, CY3S

Additional Trade Name venom

Rating: DC12 (8pcs AAA batteries)

Modulation Type: DSSS

Operation Frequency 2403-2480MHz Antenna Designation Dipole Antenna

1.4 Submitted Sample

1 Sample

1.5 Test Duration

2009-11-20 to 2010-01-04

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	ipments		
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	2009-2-22	2010-02-21
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2009-03-30	2010-03-29
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2009-02-18	2010-02-17
Power meter	Anritsu	ML2487A	6K00003613	2009-02-18	2010-02-17
Power sensor	Anritsu	MA2491A	32263	2009-02-8	2010-02-17
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2009-02-18	2010-02-17
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2009-08-15	2010-08-14
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2009-07-02	2010-07-01
Loop Antenna	EMCO	6507	102615	2009-04-26	2010-04-25

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3.0 **Technical Details**

3.1 **Summary of test results**

The EUT has been	i tested accordir	ig to the followin	ig specifications:

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**

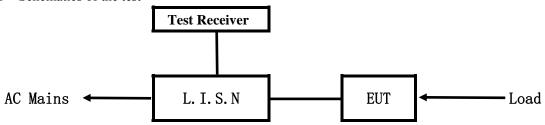
No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

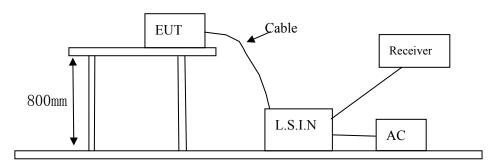


EUT: Equipment Under Test

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.

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
RADIO	Guangzhou Chiyuan Electronics Co., Ltd.	N-4Q	V6KN-4QA
CONTROL			
SYSTEM			

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

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

Eraguanay (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
$5.00 \sim 30.00$	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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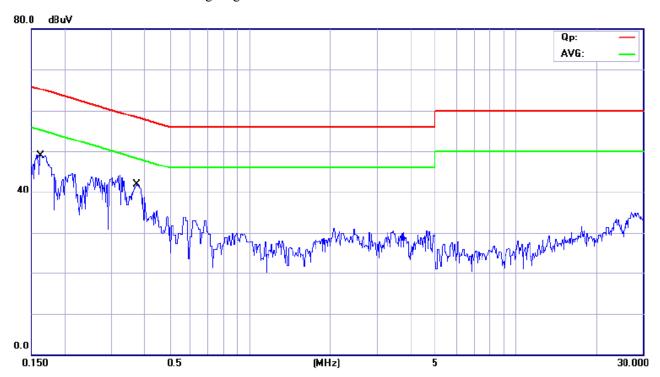
EUT Operating Environment

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

EUT set Condition: Charging 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
0.1607	Live	45.51	23.61	65.43	55.43
0.3726	Live	36.94	17.04	58.44	48.44

Date: 2010-01-12

B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

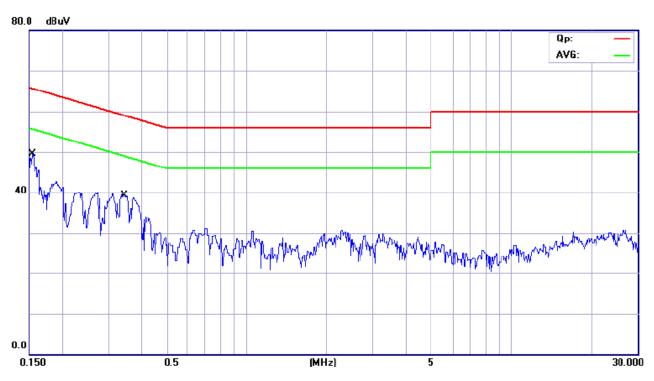
EUT Operating Environment

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

EUT set Condition: Charging 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
0.1542	Neutral	43.60	24.30	65.77	55.77
0.3425	Neutral	35.20	17.00	59.14	49.14

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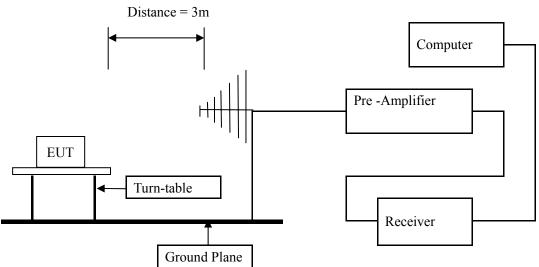
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6 Radiated Emission Test

- 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 for frequency 30MHz-1000MHz

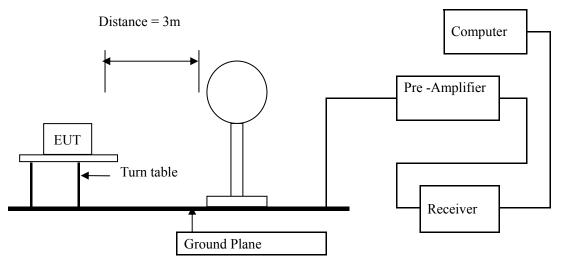


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Block diagram of Test setup for frequency below 30MHz



- 6.2 Configuration of The EUT
 Same as section 5.3 of this report
- 6.3 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) + 80
0.490-1.705	3	20log 24000/F (kHz) + 40
1.705-30	3	20log 30 + 40
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 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. New Battery used in the Radiated Emissions test
- 5. 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.
- 6. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 * (d2/d1)

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6.5 Test result

Fundamental & Harmonics Radiated Emission Data \mathbf{A}

Product:	RADIO CONTROL SYSTEM	Test Mode:	Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	12VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2403	65.22 (PK)	Н	114/94	-28.78
2403	88.52 (PK)	V	114/94	-5.48
4806		H/V	74/54	
7209		H/V	74/54	
9612		H/V	74/54	
12015		H/V	74/54	
14418		H/V	74/54	
16821		H/V	74/54	
19224		H/V	74/54	
21627		H/V	74/54	
24030		H/V	74/54	

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Product:	RADIO CONTROL SYSTEM	Test Mode:	Middle Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	12VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2441	75.11(PK)	Н	114/94	-18.89
2441	89.29(PK)	V	114/94	-4.71
4882	43.43(PK)	V	74/54	-10.57
4882		Н	74/54	
7323		H/V	74/54	
9764		H/V	74/54	
12205		H/V	74/54	
14646		H/V	74/54	
17087		H/V	74/54	
19528		H/V	74/54	
21969		H/V	74/54	
24410		H/V	74/54	

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Product:	RADIO CONTROL SYSTEM	Test Mode:	High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	12VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2480	78.88(PK)	Н	114/94	-15.12
2480	91.28(PK)	V	114/94	-2.72
4960	44.60(PK)	V	74/54	-9.40
4960		Н	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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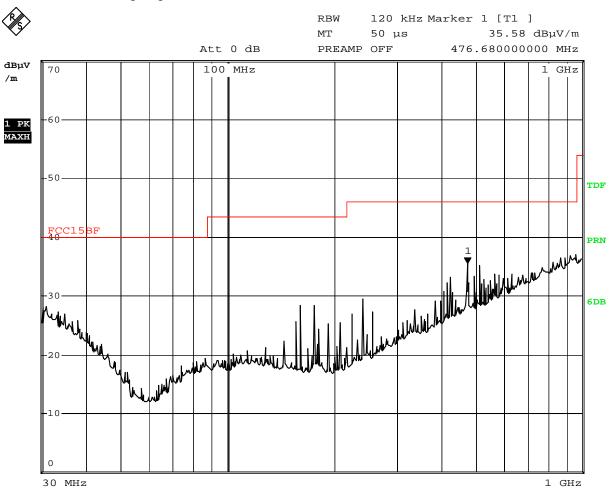


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting Mode: Low Channel

Results: Pass

Please refer to following diagram for individual



Date: 31.DEC.2009 15:13:56

Frequency (MHz)	Frequency (MHz) Level@3m (dB \(\mu \) V/m)		Limit@3m (dB \u03b4 V/m)		
476.68	35.58	Н	46.00		

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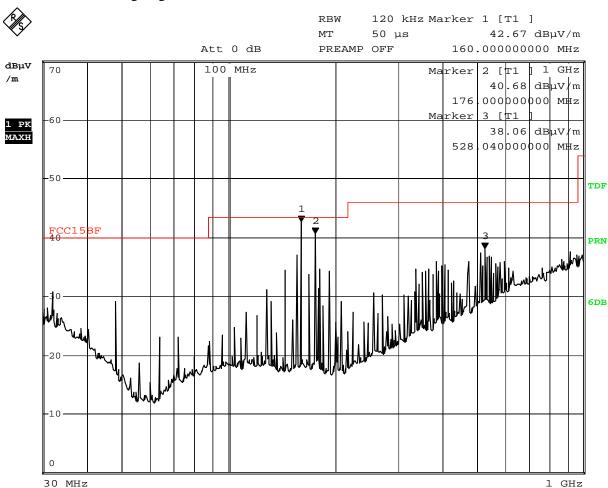


Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting Mode: Low Channel

Results: Pass

Please refer to following diagram for individual

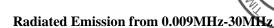


Date: 31.DEC.2009 15:18:12

Frequency (MHz)	Frequency (MHz) Level@3m (dB \mu V/m)		Limit@3m (dB \u03ba V/m)
160.00	42.67	V	43.50
176.00	40.68	V	43.50
528.04	38.06	V	46.00

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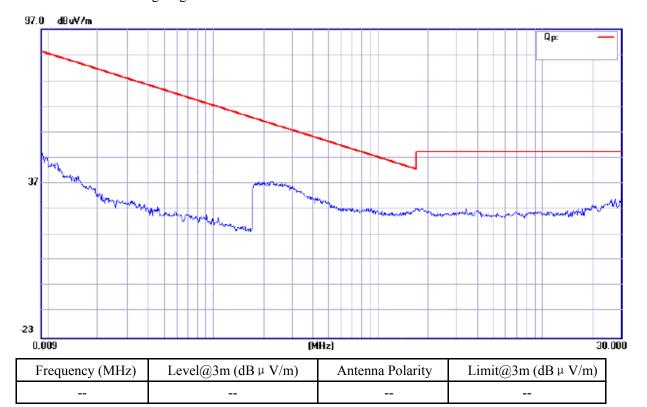
Mode: Low Channel

Results: Pass

EUT set Condition:

Please refer to following diagram for individual

Keep transmitting



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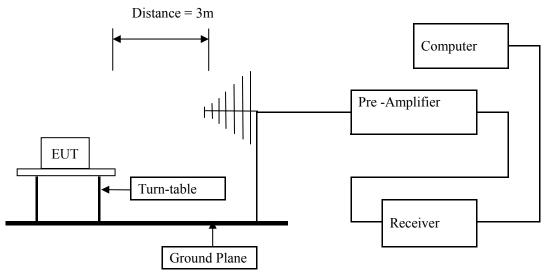


7. Band Edge

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:	RAD	IO CON	TROL SY	STEM	Test	Mode:		Low C	hannel	
Mode	Keeping Transmitting Test Voltage		Voltage		DC	12V				
Temperature	24 d		deg. C		Hu	Humidity		56% RH		
Test Result:	Pass		S		Detector		P	K		
2390MHz	PK (dB	μV/m)	Less	than 40		imit		74(dB	μV/m)	
237011112	AV(dB	μV/m)				.		54(dB	μV/m)	
	Ma	arker 1	[T1]		RBW	1 MH	Hz F	RF Att	0 dB	
Ref Lvl				$2 \text{ dB}\mu\text{V}$	VBW	1 MH				
97 dBμV		2.	403026	05 GHz	SWT	5 ms	5 l	Un i t	$dB\muV$	
						▼ 1	[T1]	80.	.22 dBµV	Α
90						∇2	[T1]	- 2.48382 32.	.93 dBµV	
						2		1	000 GHz	
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	$\mu \vee \frac{1}{1}$									
70										
1MAX										1MA
60										
50										
40								\downarrow	MAN MILL	
humale	- Manufal	Lhull	mulmil	MILLAMIN MIN	100-140 Mh	nd blace Albert	2	M ·	\\frac{1}{2}	
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20								1		
10								1		
0										
-3										
Start 2.3				11 M	Hz/			Stop 2	2.42 GHz	
te: 26.	DEC.200	9 22:	27:25							

Note: Field Strength in restrict band measured in conventional manner

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Product:	RADIO CON	TROL SYSTEM	Tes	t Mode:		High C	hannel	
Mode	Keeping Transmitting		Test V			DC1		
Temperature		deg. C,	Humidity		56% RH		RH	
Test Result:		Pass	Detector			PF	ζ	
2492 51411	PK (dBμV/m)	41.55	_	• • • 4		74(dB _µ	ιV/m)	
2483.5MHz	AV(dBμV/m)		1	Limit		54(dB _µ	ιV/m)	
	Marker :	1 [T1]	RBW	1 MH	z RF	Att	0 dB	
Ref Lvl		83.63 $dB\mu V$	VBW	1 MH	Z			
97 dBμV	2.	.47989980 GHz	SWT	5 ms	Ur	nit	dB μ V	
97				▼ 1 [T1]	83.	$63~\mathrm{dB}\mu\mathrm{V}$	Α
90				∇2 [T1]	2.47989 48.	888 GHz 03 dB <i>w</i> V	
Ĭ Ž				. 2 1	. 1]	40. 2.48350		
80								
	μ V							
70								
1MAX								1MA
60								
50								
7								
40								
40		and the second residence				. als Alexander	whethere	
30	muhama	man handley	Monday	of maller of		W		
30								
20								
20								
4.0								
10								
-3								
Start 2.4	7 GHz	13 MI	Hz/			Stop	2.6 GHz	
Date: 26.	DEC.2009 22:	19:12						

Note: Field Strength in restrict band measured in conventional manner

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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.

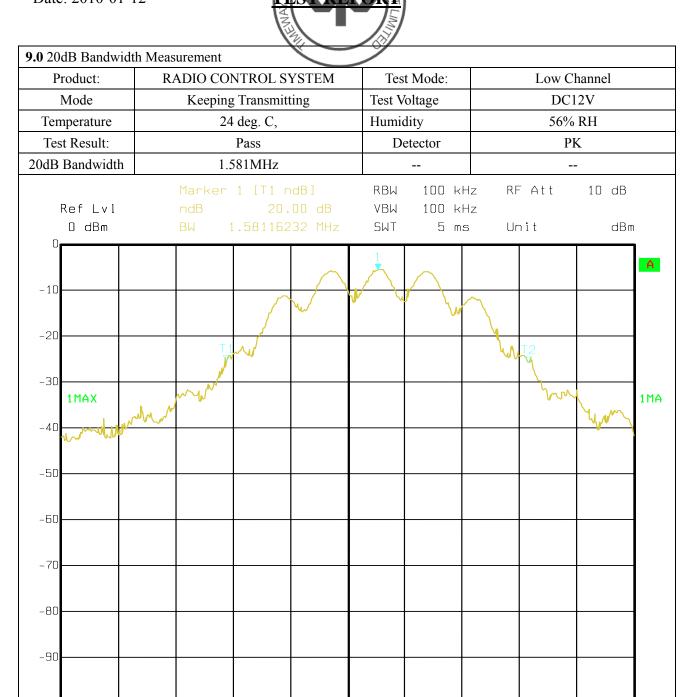
An RF cable connected to the reverse polarity SMA connector, and a dipole antenna connected to the reverse polarity SMA connector. The maximum Gain of the antennas is 2.0dBi.

Test Result: Pass

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Span 3 MHz

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Center 2.403 GHz

Date:

18.DEC.2009

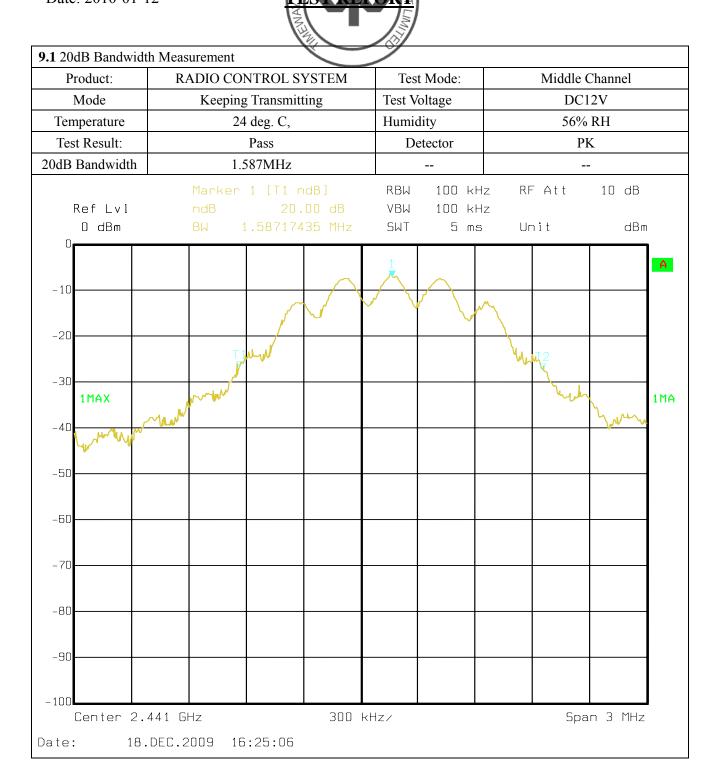
16:25:42

300 kHz/

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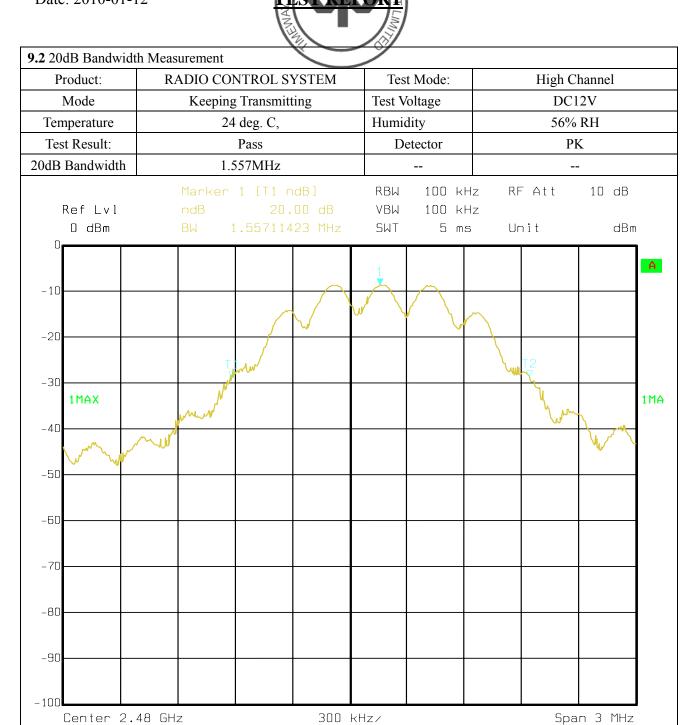
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18.DEC.2009

16:20:03

Date:

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10.0 FCC ID Label

FCC ID: V6KN-4QA

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:



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11.0 Photo of testing

11.1 Conducted test View--



11.2 Radiated emission test view



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11.3 Photo for the EUT





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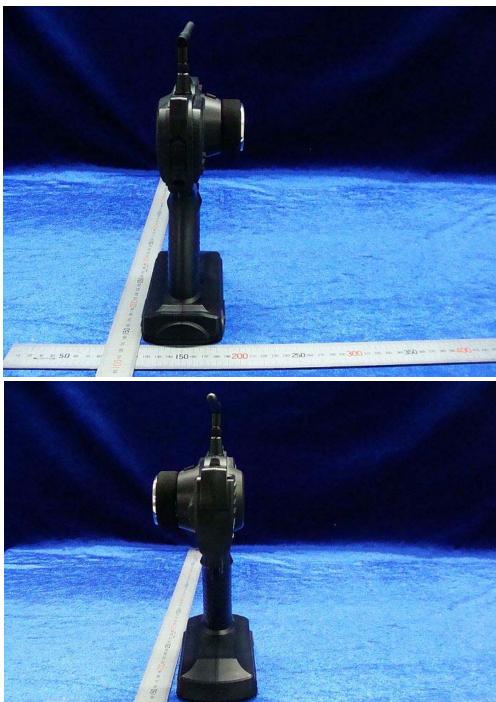
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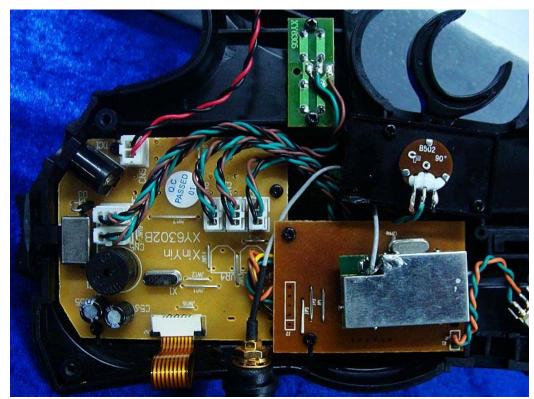
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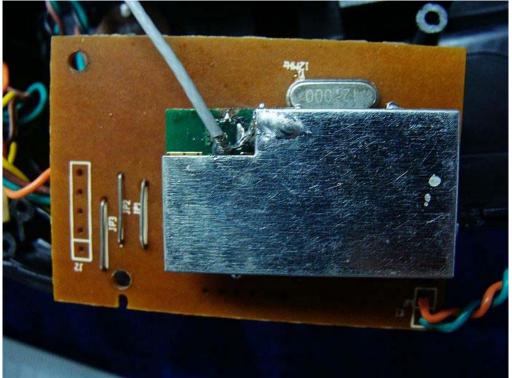
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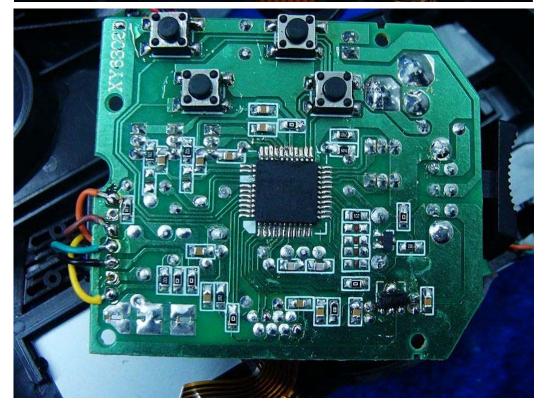
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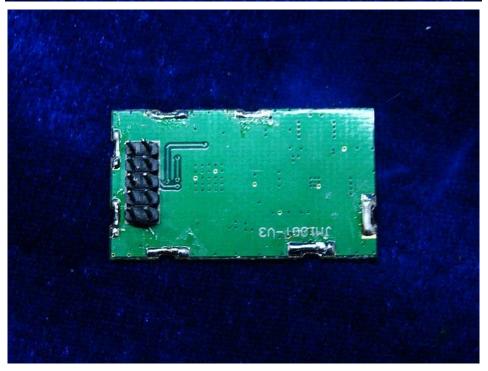
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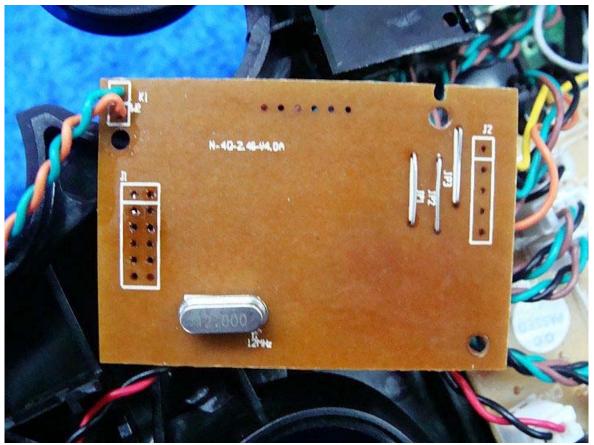
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-- End of the report--