

APPLICATION CERTIFICATION FCC Part 15C

On Behalf of

ShantouYongTong toys&crafts CO. LTD

WIFI CONTROL SPY VEHICLE

Model No.:CR1288, CR1388, CR1588, CR1688, CR1788, CR1888, CR1988

FCC ID: SLT-CR1288

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Report Number : ATE20130309
Date of Test : Mar 2, 2013
Date of Report : Mar 2- Mar 25, 2013

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Test Report Certification

Applicant : ShantouYongTong toys&crafts CO. LTD
Manufacturer : ShantouYongTong toys&crafts CO. LTD
EUT Description : WIFI CONTROL SPY VEHICLE
(A) MODEL NO.: CR1288, CR1388, CR1588, CR1688, CR1788, CR1888, CR1988
(B) TRANDE NAME.: CLOUD ROVER
(C) POWER SUPPLY: DC 3.7V (Li-polymer battery) & AC 120V
(Powered by Adapter)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247

ANSI C63.4: 2009

The EUT was tested according to 558074 D01 DTS Meas Guidance v03r01

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : Mar 2- Mar 25, 2013

Prepared by :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	WIFI CONTROL SPY VEHICLE
Model Number	:	CR1288, CR1388, CR1588, CR1688, CR1788, CR1788, CR1888, CR1988
		Note: These models are identical in interior structure, electrical circuits and components, and just model names, the plastics appearances such as color, shape are different for the marketing requirement. So we prepare CR1288 for test only
Frequency Range	:	802.11b/g: 2412-2462MHz
Number of Channels	:	802.11b/g:11
Antenna Gain	:	0dBi
Power Supply	:	DC 3.7V (Li-polymer battery) & AC 120V (Powered by Adapter)
Data Rate	:	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
Applicant	:	ShantouYongTong toys&crafts CO. LTD
Address	:	YongTong Buliding, BeiXiuYuan, Guang Yi St, Chenghai, Shantou City, Guangdong, China
Manufacturer	:	ShantouYongTong toys&crafts CO. LTD
Address	:	YongTong Buliding, BeiXiuYuan, Guang Yi St, Chenghai, Shantou City, Guangdong, China
Date of sample received	:	Mar 2, 2013
Date of Test	:	Mar 2- Mar 25, 2013

1.2.Carrier Frequency of Channels

802.11b, 802.11g

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	---	---

1.3.Special Accessory and Auxiliary Equipment

N/A

1.4. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.5. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 12, 2013	Jan. 11, 2014
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 12, 2013	Jan. 11, 2014
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 12, 2013	Jan. 11, 2014
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 12, 2013	Jan. 11, 2014
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Feb. 06, 2013	Feb. 05, 2014
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Feb. 06, 2013	Feb. 05, 2014
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 12, 2013	Jan. 11, 2014
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 12, 2013	Jan. 11, 2014

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: **802.11b Transmitting mode**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

802.11g Transmitting mode

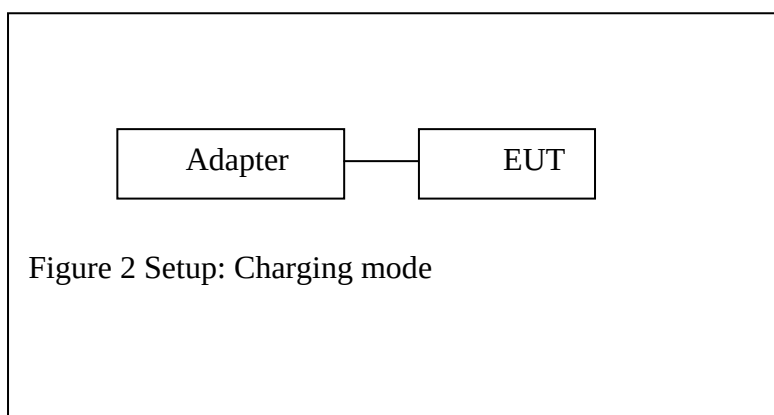
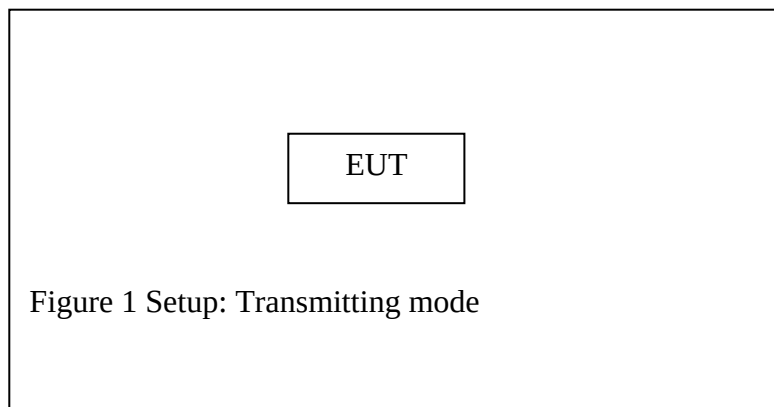
Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

Charging

3.2.Configuration and peripherals



4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.247(d)	Conducted Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 6DB BANDWIDTH MEASUREMENT

5.1. Block Diagram of Test Setup



(EUT: WIFI CONTROL SPY VEHICLE)

5.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.3. EUT Configuration on Measurement

The following equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1. WIFI CONTROL SPY VEHICLE (EUT)

Model Number	:	CR1288
Serial Number	:	N/A
Manufacturer	:	ShantouYongTong toys&crafts CO. LTD

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

5.5. Test Procedure

5.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

5.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

5.5.3. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

5.6. Test Result

PASS.

Date of Test:	Mar 25, 2013	Temperature:	25°C
EUT:	WIFI CONTROL SPY VEHICLE	Humidity:	50%
Model No.:	CR1288	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Ricky

The test was performed with 802.11b

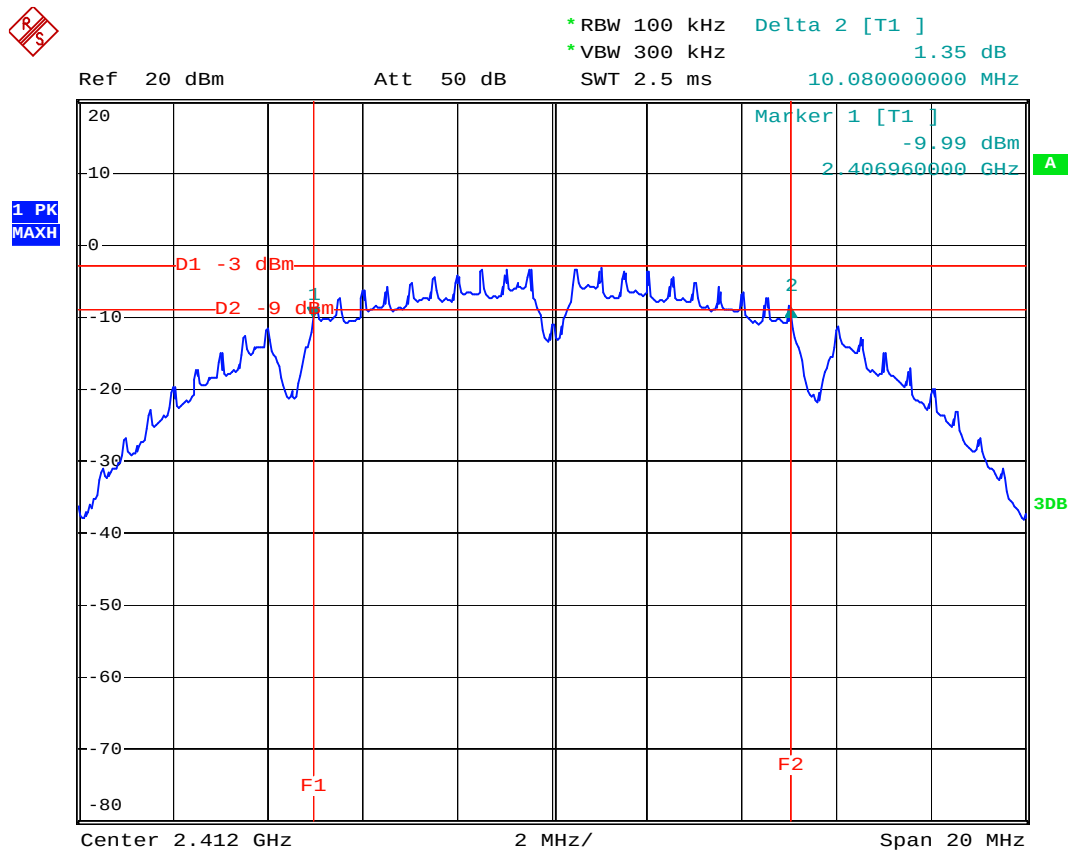
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	10.08	> 0.5MHz
Middle	2437	10.08	> 0.5MHz
High	2462	10.08	> 0.5MHz

The test was performed with 802.11g

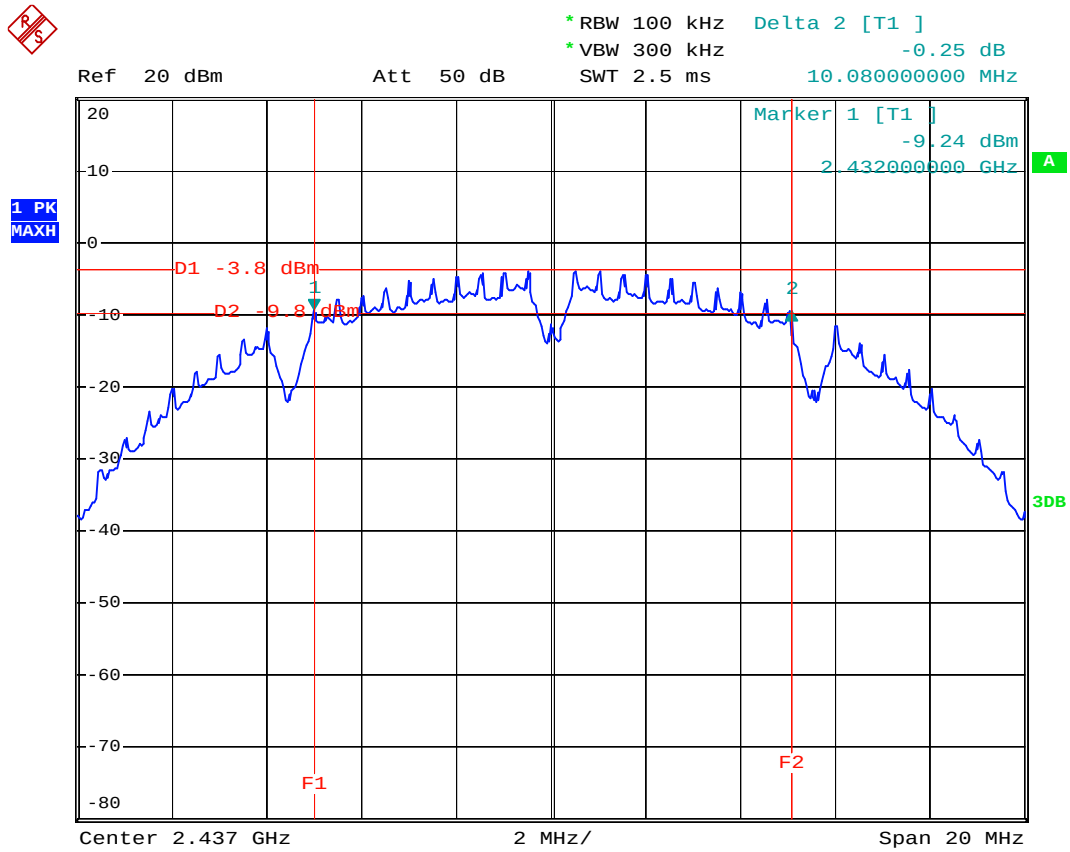
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.36	> 0.5MHz
Middle	2437	16.36	> 0.5MHz
High	2462	16.36	> 0.5MHz

The spectrum analyzer plots are attached as below.

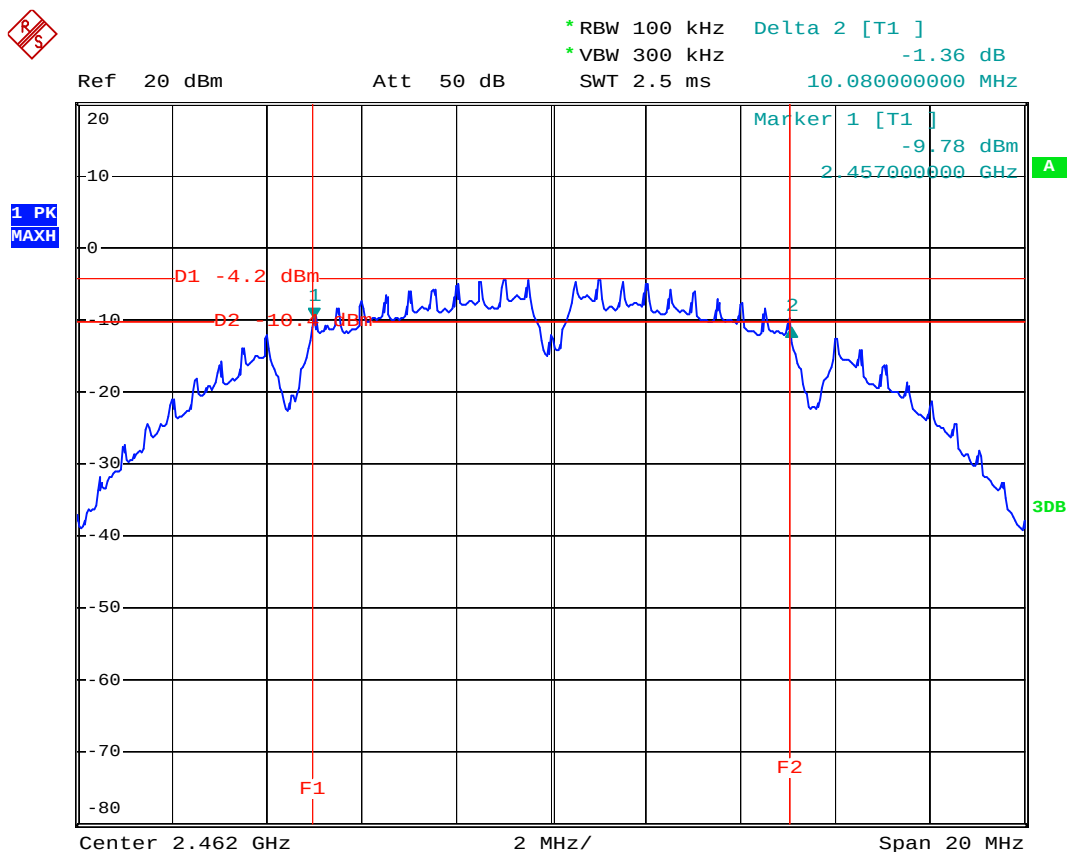
802.11b Channel Low 2412MHz



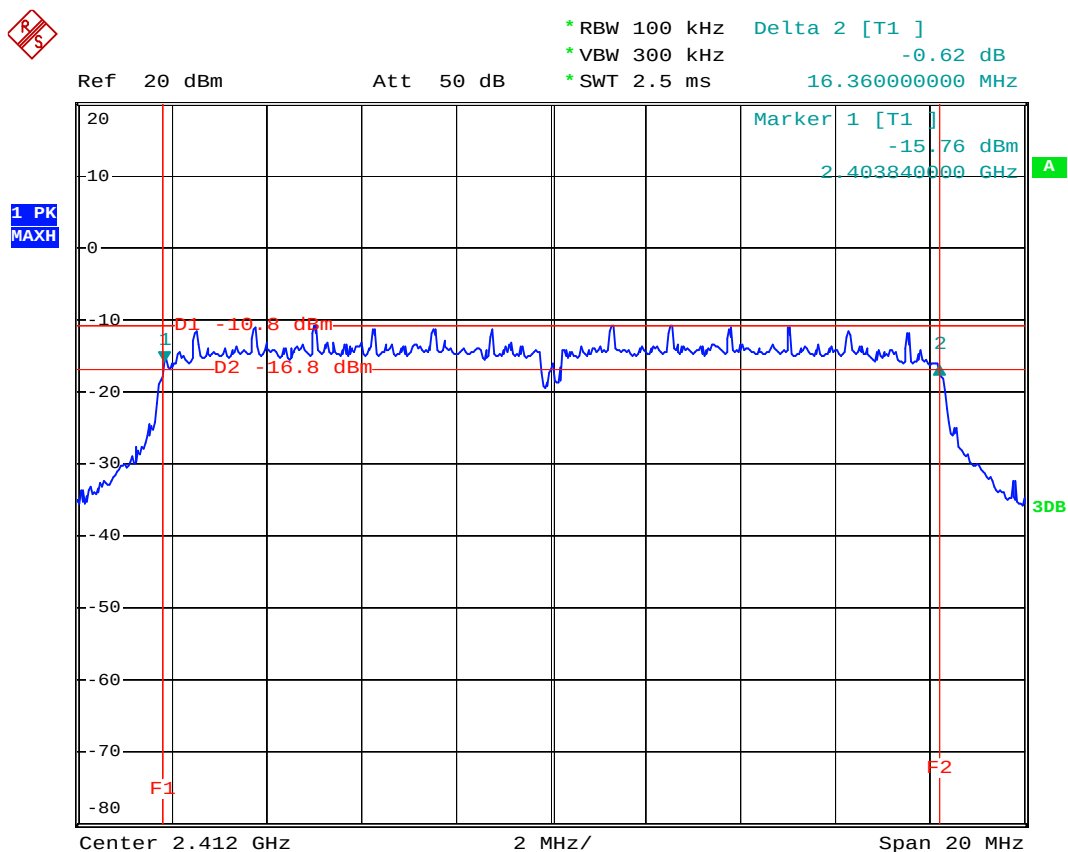
802.11b Channel Middle 2437MHz



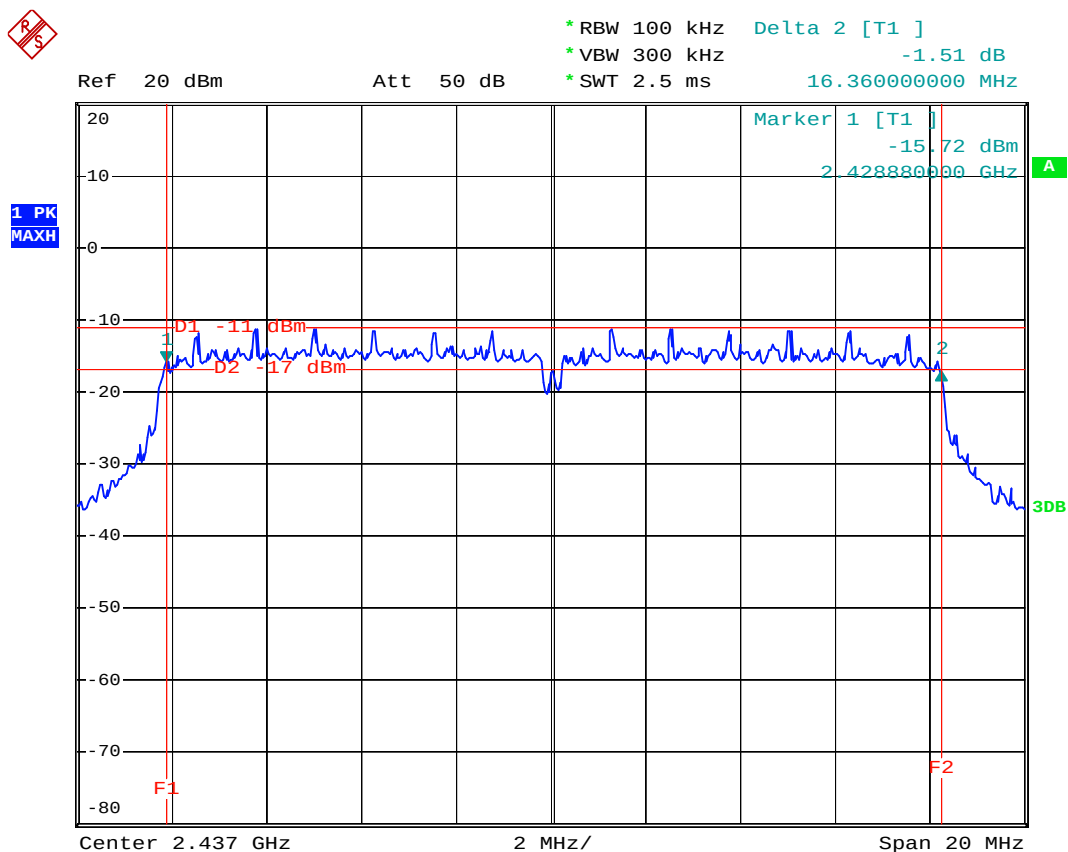
802.11b Channel High 2462MHz



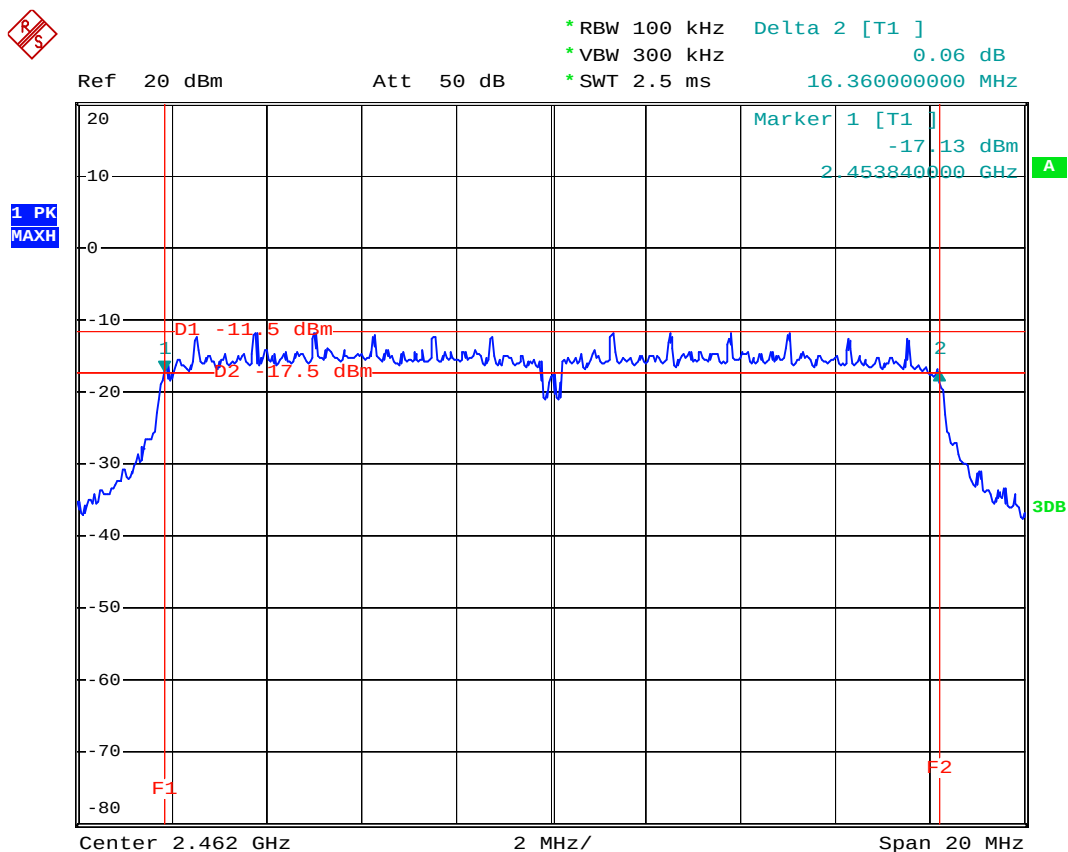
802.11g Channel Low 2412MHz



802.11g Channel Middle 2437MHz

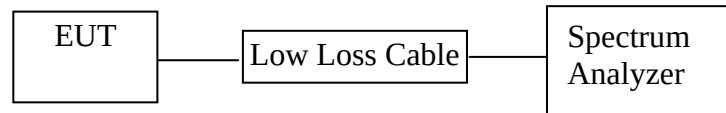


802.11g Channel High 2462MHz



6. MAXIMUM PEAK OUTPUT POWER

6.1. Block Diagram of Test Setup



(EUT: WIFI CONTROL SPY VEHICLE)

6.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

6.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1. WIFI CONTROL SPY VEHICLE (EUT)

Model Number	:	CR1288
Serial Number	:	N/A
Manufacturer	:	ShantouYongTong toys&crafts CO. LTD

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

6.5. Test Procedure

6.5.1. The EUT was tested according to Section 9.1.2 of the 558074 D01 DTS Meas Guidance v03r01

6.5.2. The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.3. a) Set the RBW = 1 MHz.

b) Set the VBW $\geq$ 3 RBW

c) Set the span $\geq$ 1.5 x DTS bandwidth.

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

6.5.4.h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

6.5.5. Measurement the maximum peak output power.

6.6.Test Result

Date of Test:	Mar 25, 2013	Temperature:	25°C
EUT:	WIFI CONTROL SPY VEHICLE	Humidity:	50%
Model No.:	CR1288	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Ricky

The test was performed with 802.11b

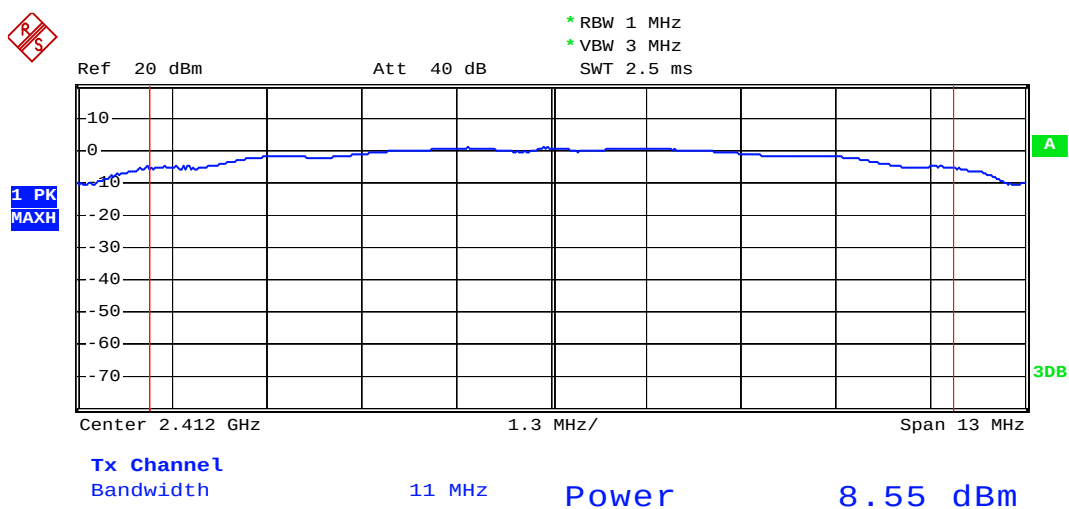
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	8.50	7.08	30 dBm / 1 W
Middle	2437	8.30	6.76	30 dBm / 1 W
High	2462	7.70	5.89	30 dBm / 1 W

The test was performed with 802.11g

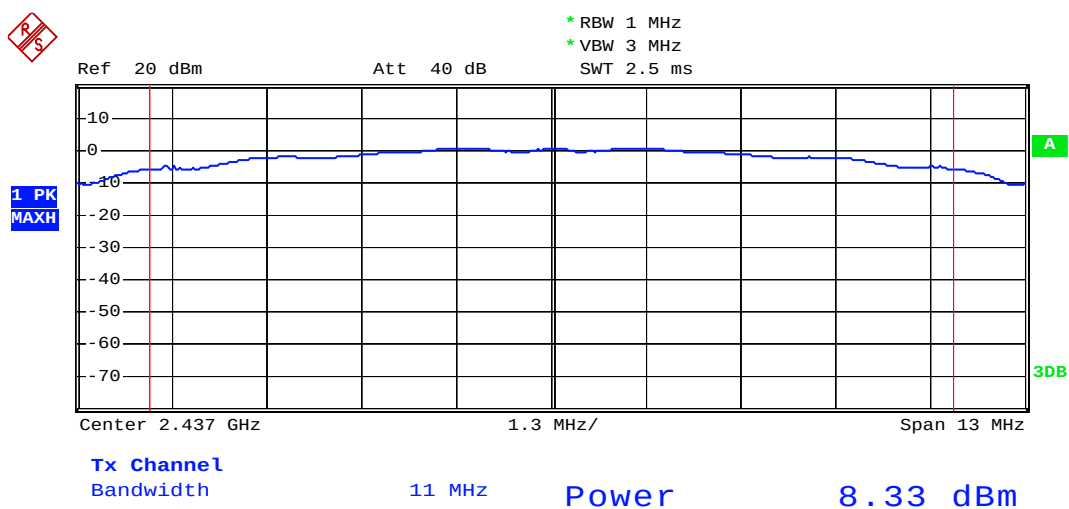
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	9.01	7.96	30 dBm / 1 W
Middle	2437	8.70	7.41	30 dBm / 1 W
High	2462	8.32	6.79	30 dBm / 1 W

The spectrum analyzer plots are attached as below.

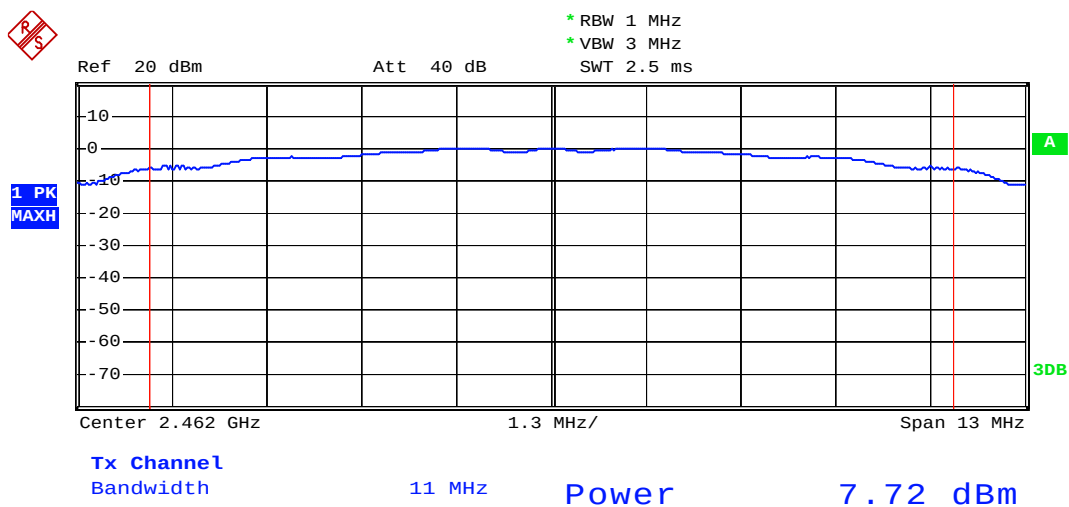
802.11b Channel Low 2412MHz



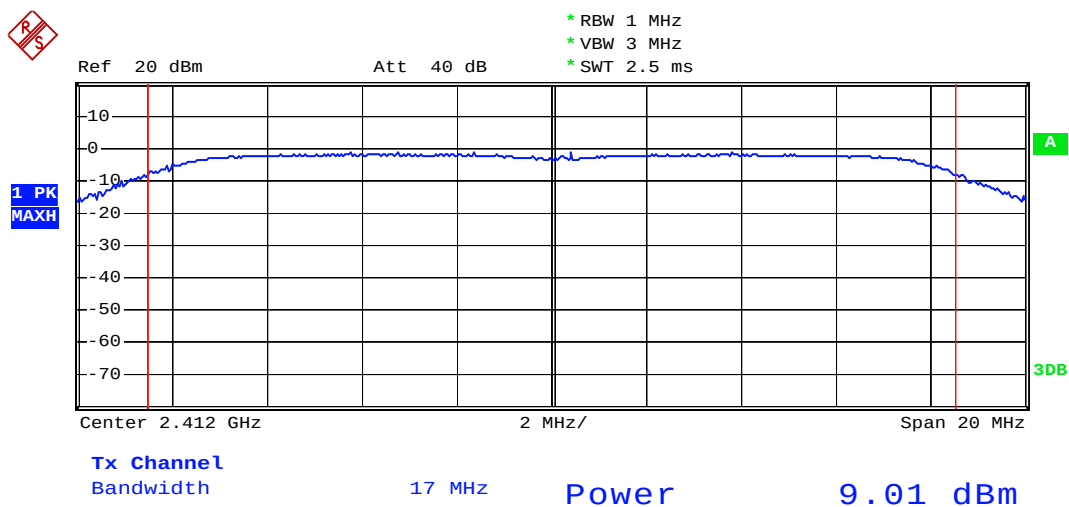
802.11b Channel Middle 2437MHz



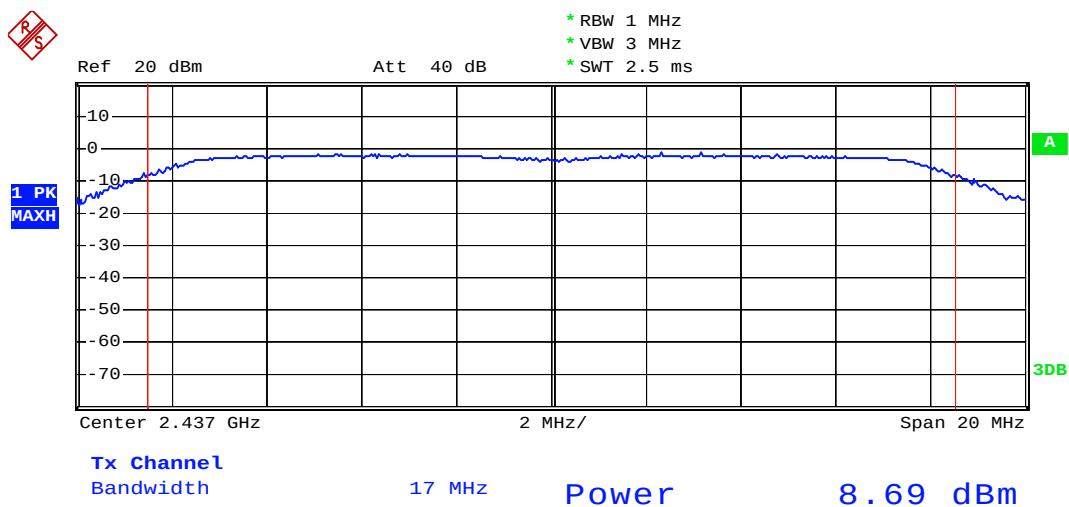
802.11b Channel High 2462MHz



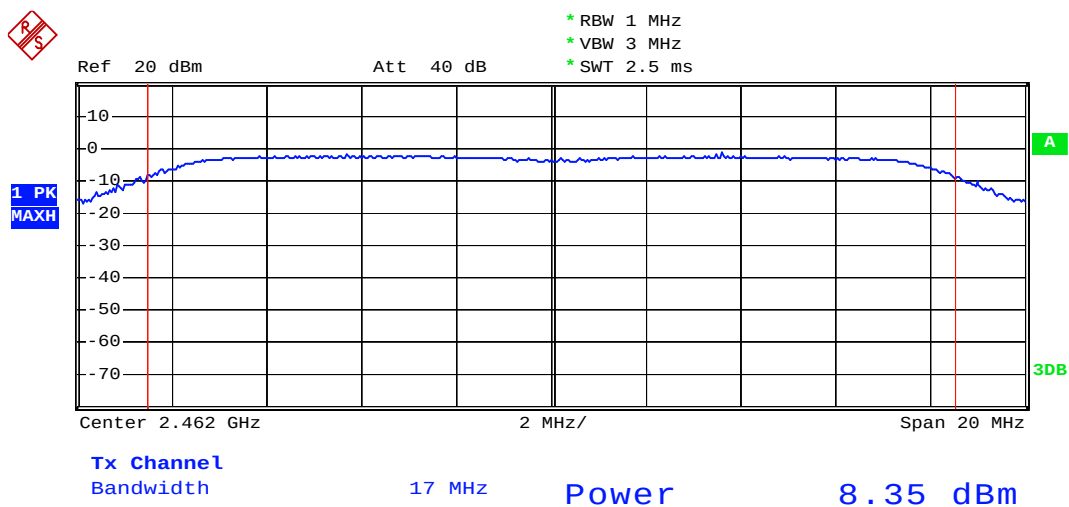
802.11g Channel Low 2412MHz



802.11g Channel Middle 2437MHz



802.11g Channel High 2462MHz



7. POWER SPECTRAL DENSITY MEASUREMENT

7.1. Block Diagram of Test Setup



(EUT: WIFI CONTROL SPY VEHICLE)

7.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.3.1. WIFI CONTROL SPY VEHICLE (EUT)

Model Number	:	CR1288
Serial Number	:	N/A
Manufacturer	:	ShantouYongTong toys&crafts CO. LTD

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462. We select 2412MHz, 2437MHz, 2462MHzTX frequency to transmit.

7.5. Test Procedure

7.5.1. The EUT was tested according to Section 10.2 of the 558074 D01 DTS Meas Guidance v03r01.

7.5.2. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.3. Measurement Procedure PKPSD (peak PSD):

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.5.4. Measurement the maximum power spectral density.

7.6. Test Result

PASS.

Date of Test:	Mar 25, 2013	Temperature:	25°C
EUT:	WIFI CONTROL SPY VEHICLE	Humidity:	50%
Model No.:	CR1288	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Ricky

The test was performed with 802.11b

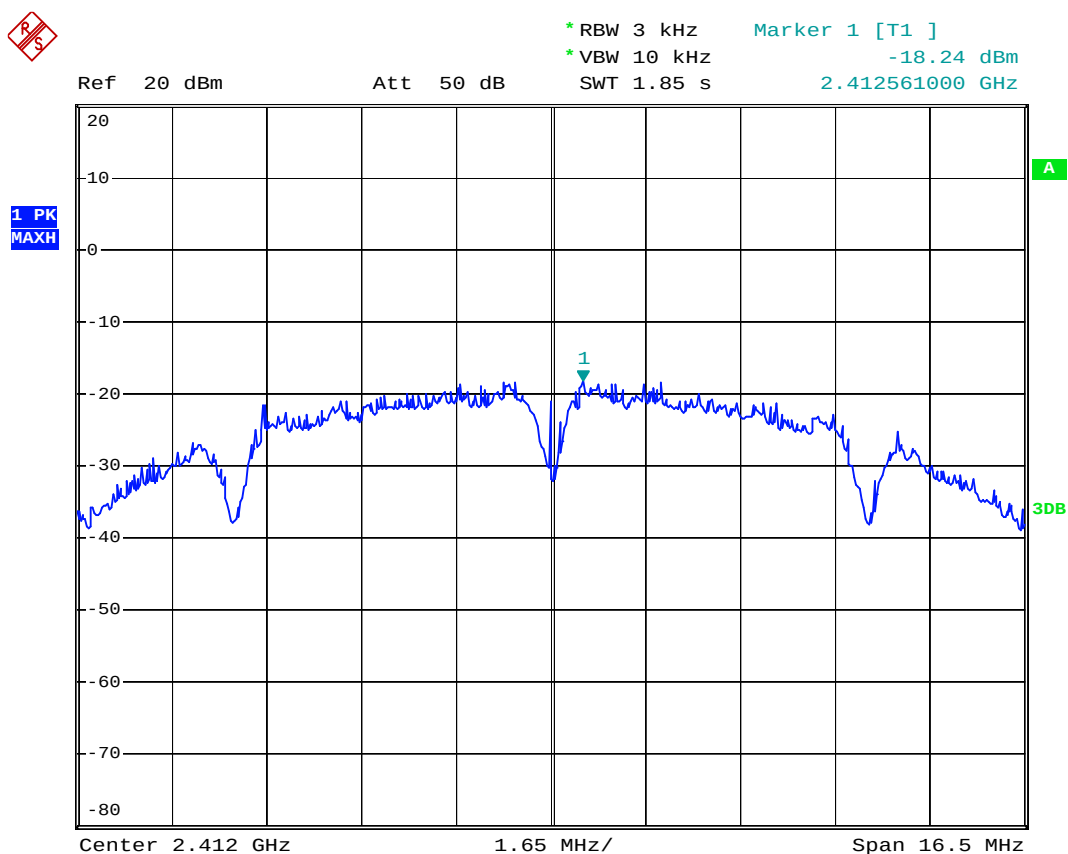
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limits (dBm/3kHz)
Low	2412	-18.24	8 dBm
Middle	2437	-18.57	8 dBm
High	2462	-18.51	8 dBm

The test was performed with 802.11G

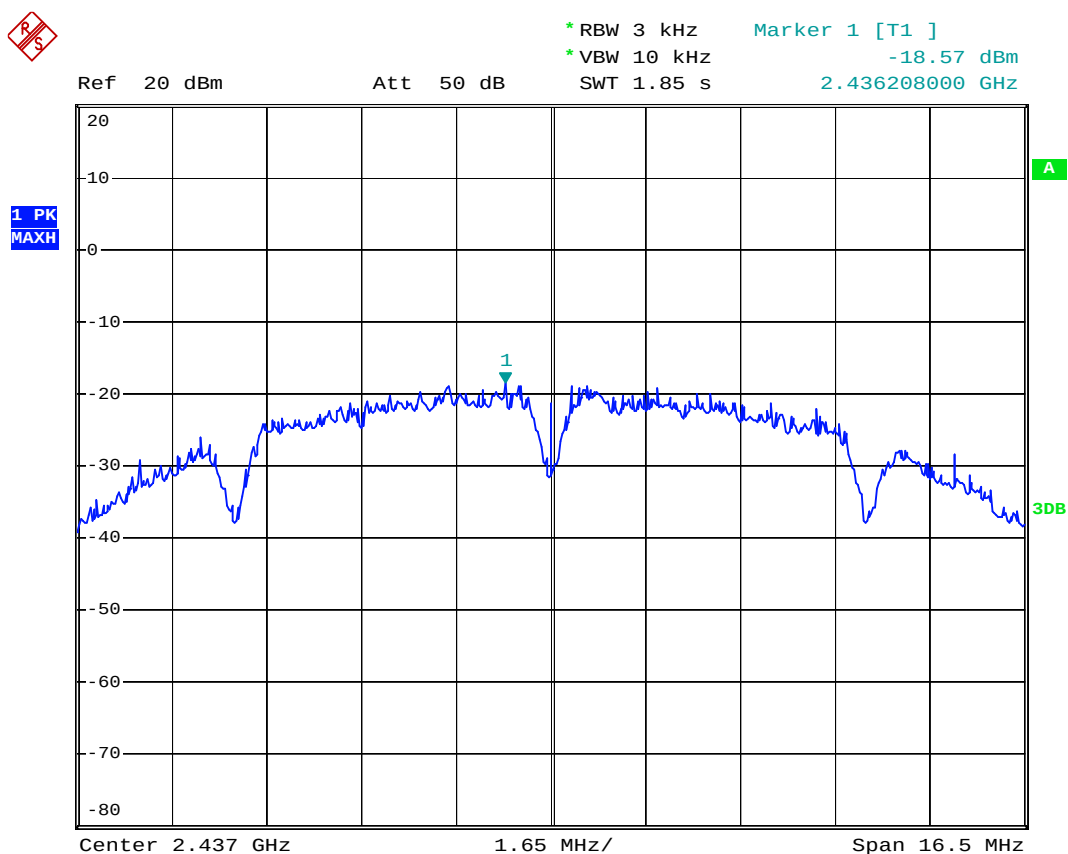
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limits (dBm/3kHz)
Low	2412	-21.78	8 dBm
Middle	2437	-22.07	8 dBm
High	2462	-22.52	8 dBm

The spectrum analyzer plots are attached as below.

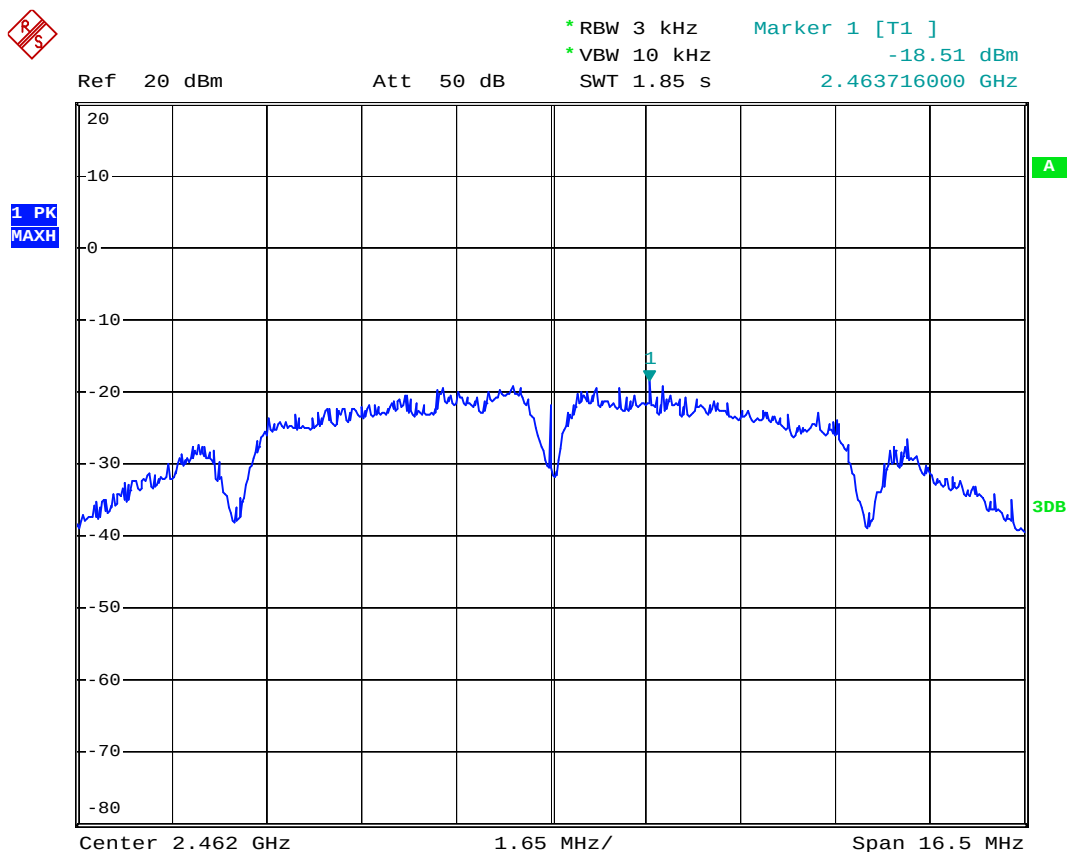
802.11b Channel Low 2412MHz



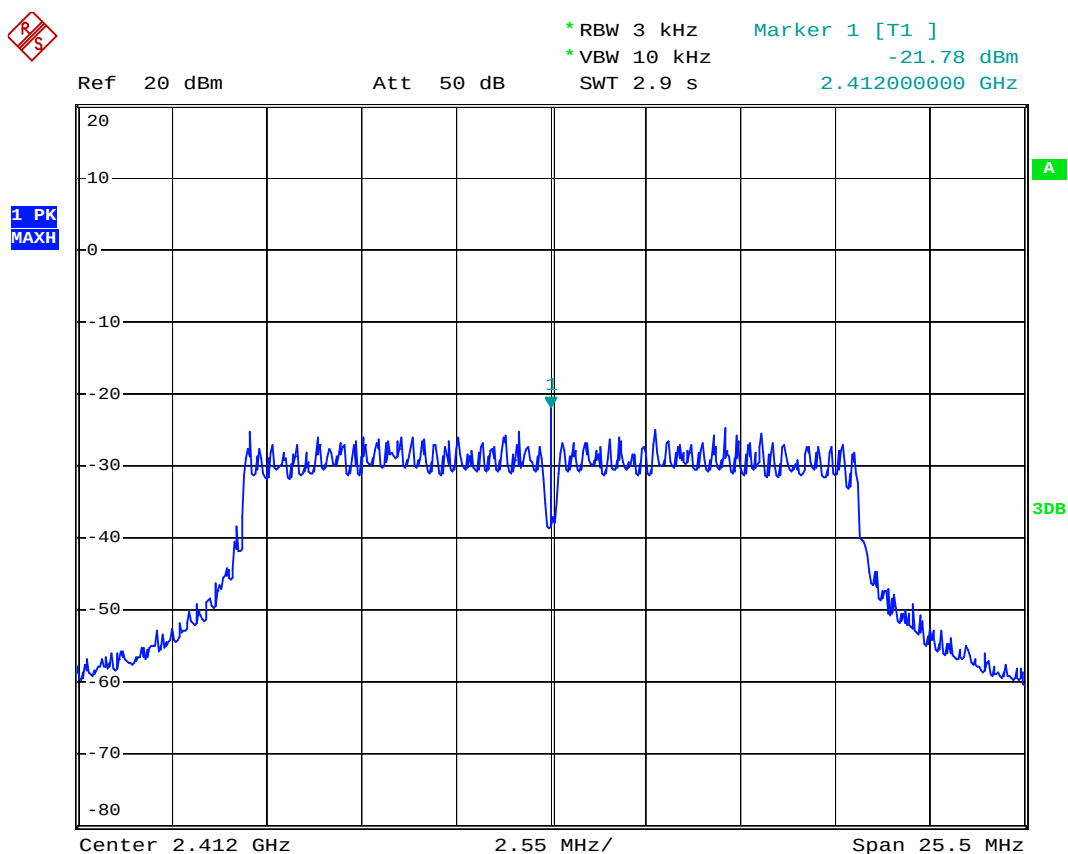
802.11b Channel Middle 2437MHz



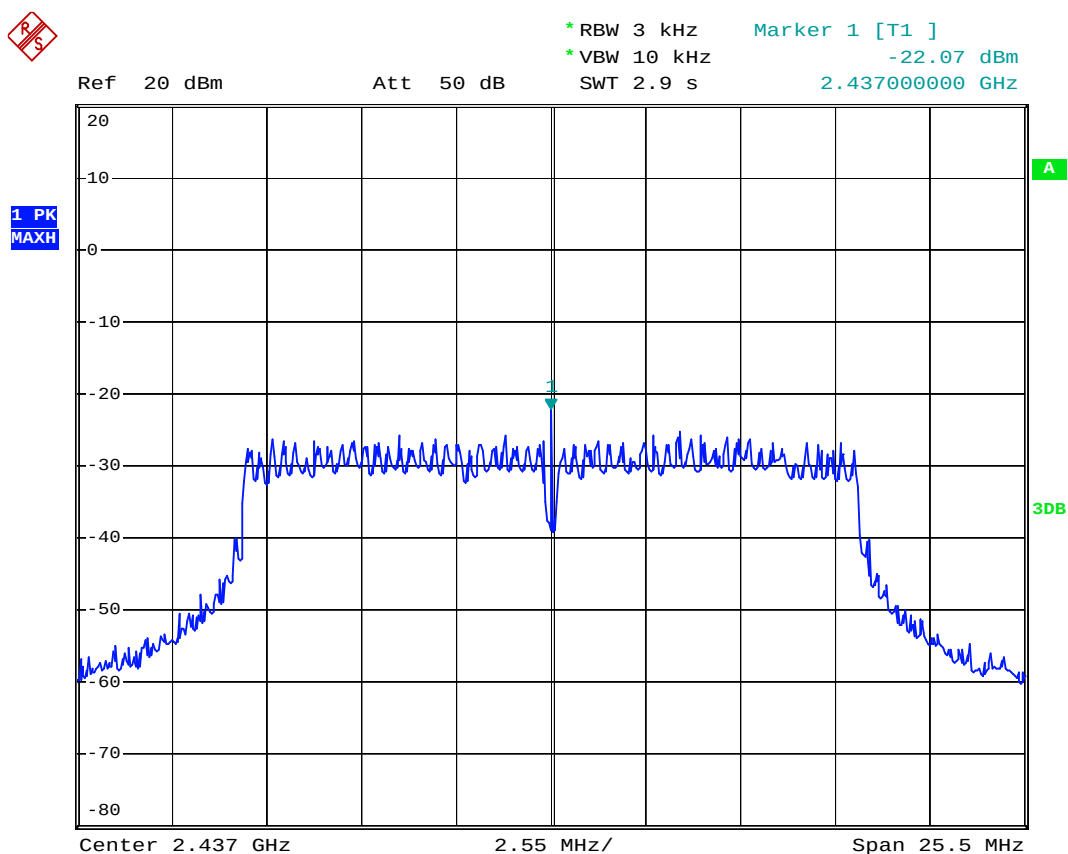
802.11b Channel High 2462MHz



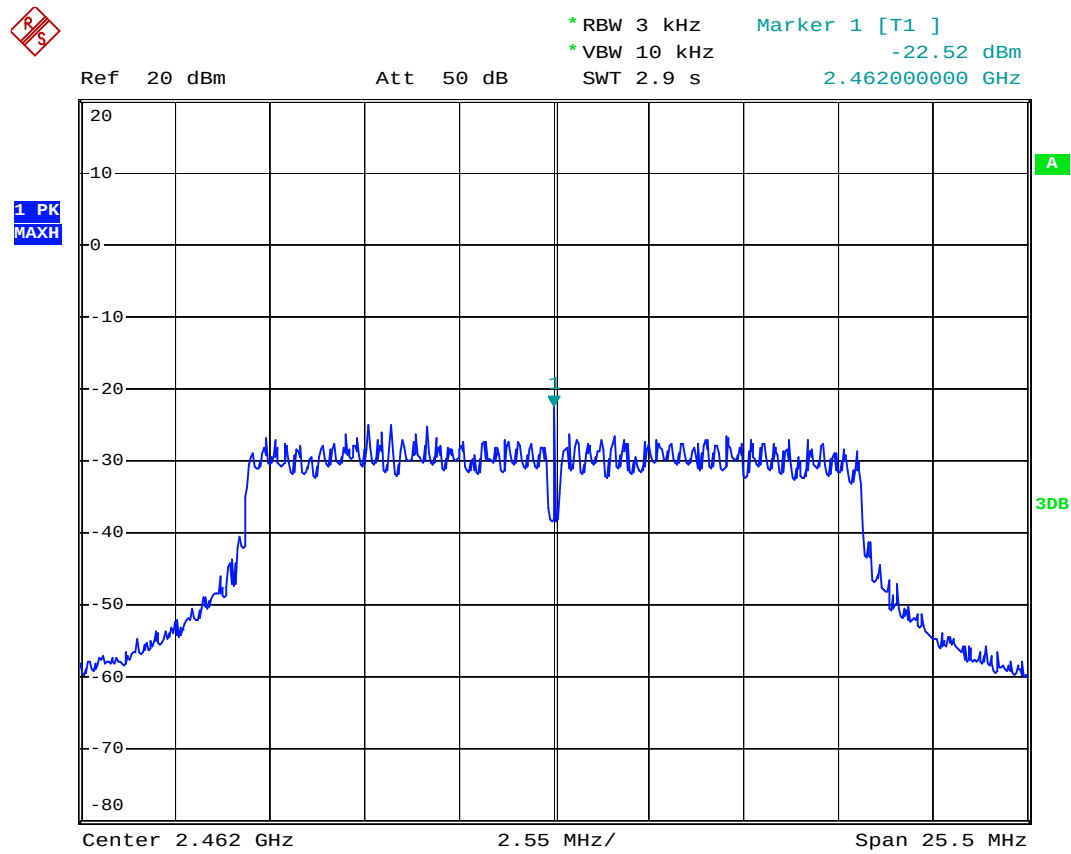
802.11g Channel Low 2412MHz



802.11g Channel Middle 2437MHz



802.11g Channel High 2462MHz



8. BAND EDGE COMPLIANCE TEST

8.1. Block Diagram of Test Setup



(EUT: WIFI CONTROL SPY VEHICLE)

8.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

8.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.3.1. WIFI CONTROL SPY VEHICLE (EUT)

Model Number	:	CR1288
Serial Number	:	N/A
Manufacturer	:	ShantouYongTong toys&crafts CO. LTD

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 MHz. We select 2412MHz, 2462MHz TX frequency to transmit.

8.5. Test Procedure

8.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

8.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

8.5.3. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.

8.5.4. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

8.5.5. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

8.5.6. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

RBW=1MHz, VBW=1MHz

8.5.7. The band edges was measured and recorded.

8.6.Test Result

Pass**Conducted test****Conducted test**

Date of Test:	<u>Mar 25, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>WIFI CONTROL SPY VEHICLE</u>	Humidity:	<u>50%</u>
Model No.:	<u>CR1288</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Ricky</u>

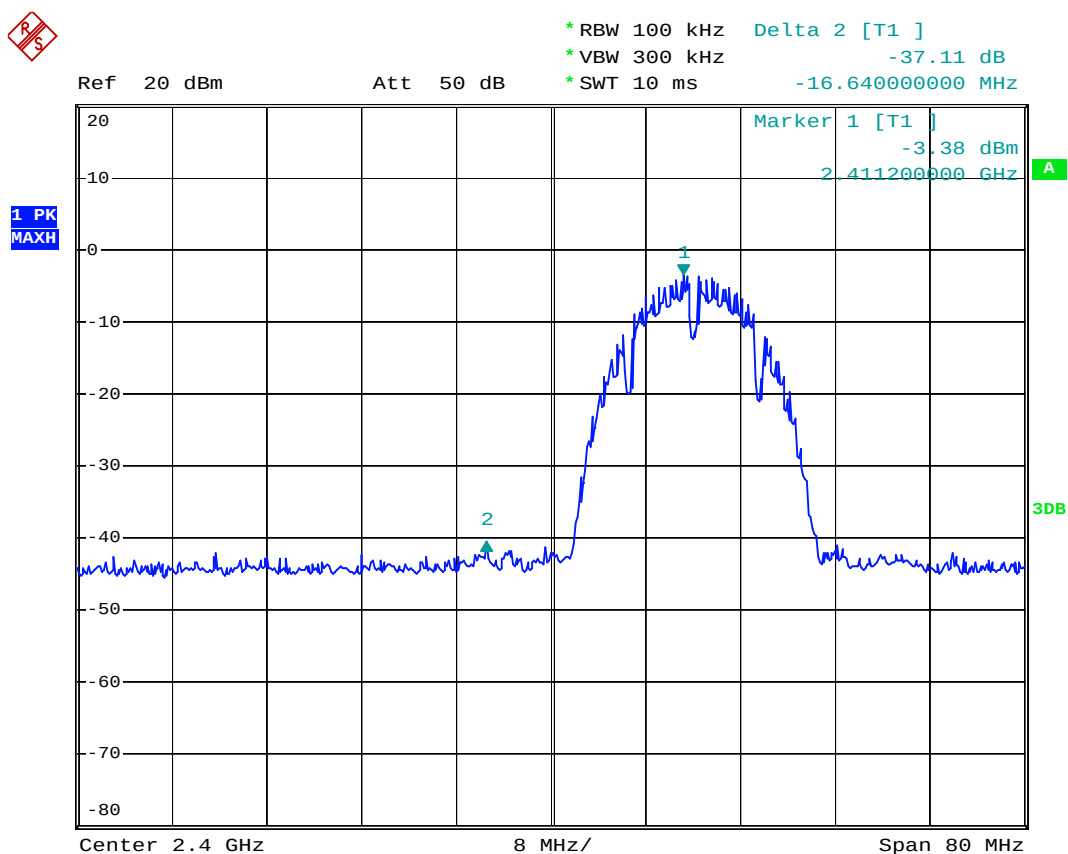
The test was performed with 802.11b

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	37.11	> 20dBc
2462	38.36	> 20dBc

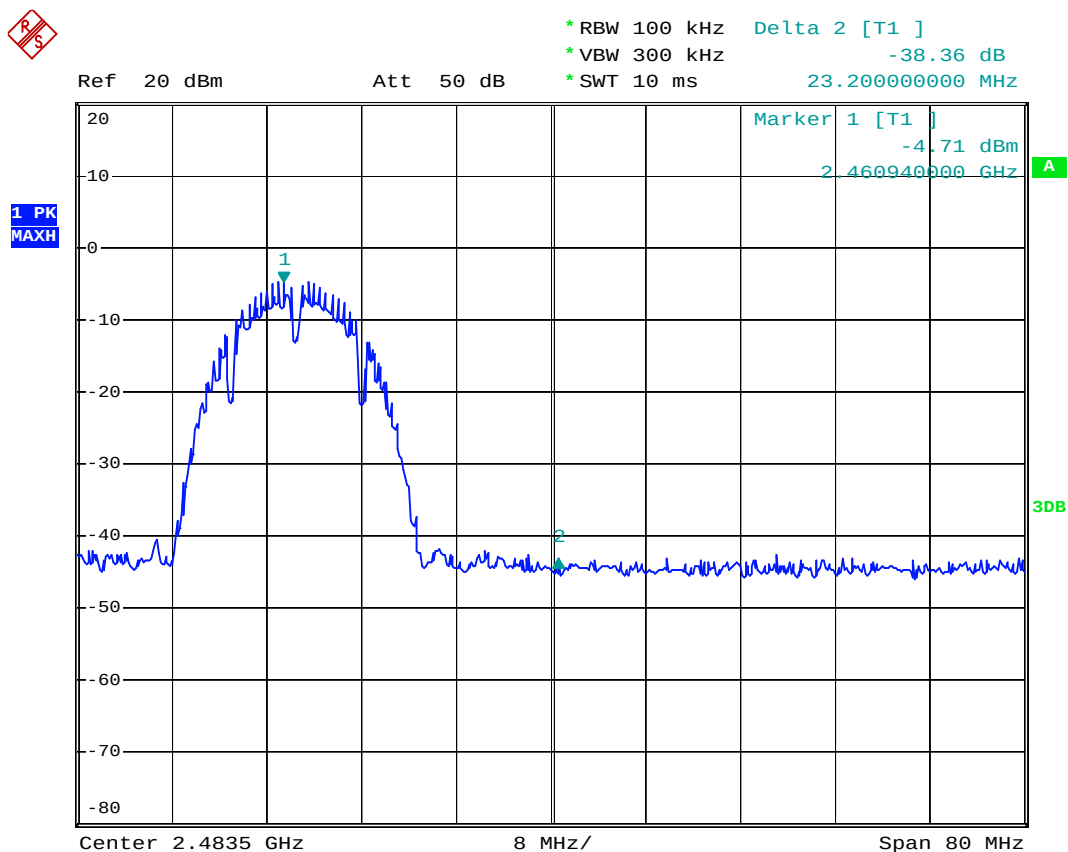
The test was performed with 802.11g

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	31.61	> 20dBc
2462	30.24	> 20dBc

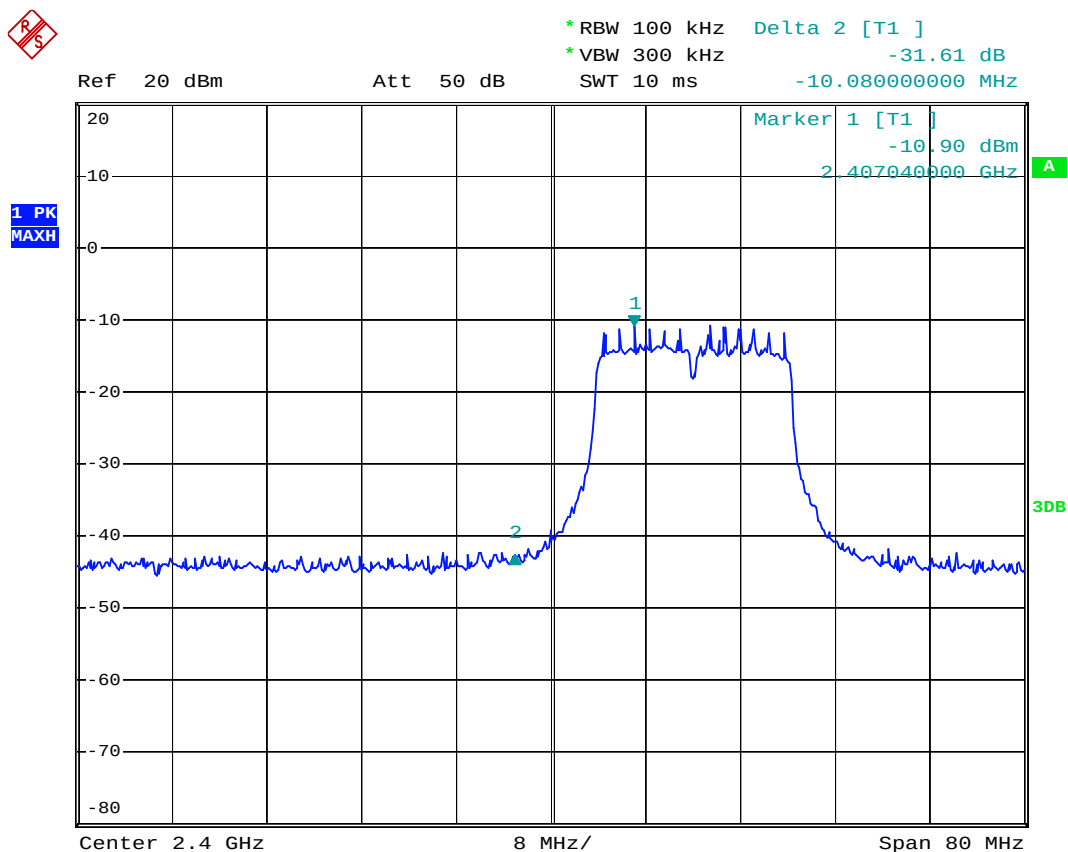
802.11b Channel Low 2412MHz



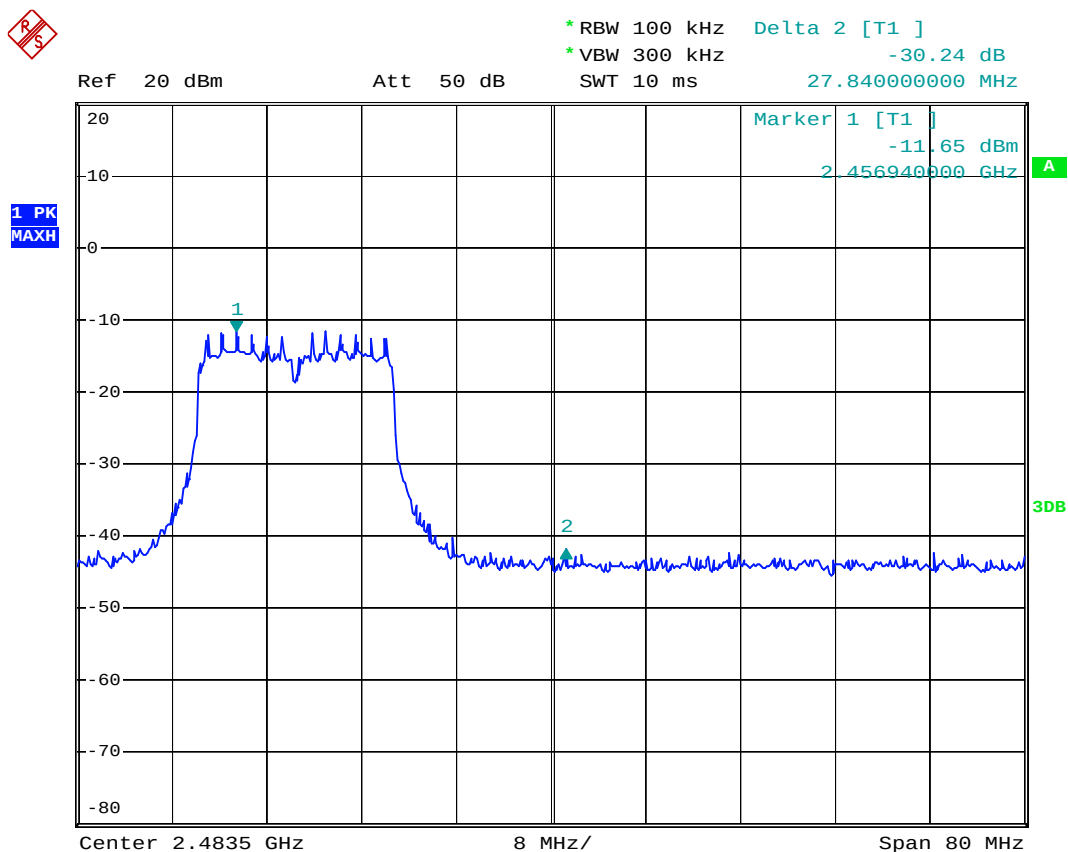
802.11b Channel High 2462MHz



802.11g Channel Low 2412MHz



802.11g Channel High 2462MHz



Radiated Band Edge Result

Date of Test:	Mar 10, 2013	Temperature:	25°C
EUT:	WIFI CONTROL SPY VEHICLE	Humidity:	50%
Model No.:	CR1288	Power Supply:	DC 3.7V
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Ricky

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	41.99	47.06	-7.81	34.18	39.25	54	74	-19.82	-34.75	Vertical
2332.164	42.19	47.56	-7.81	34.38	39.75	54	74	-19.62	-34.25	Vertical
2390.000	42.78	47.44	-7.53	35.25	39.91	54	74	-18.75	-34.09	Vertical
2310.000	40.15	45.98	-7.81	32.34	38.17	54	74	-21.66	-35.83	Horizontal
2332.136	41.68	46.94	-7.81	33.87	39.13	54	74	-20.13	-34.87	Horizontal
2390.000	43.18	48.39	-7.53	35.65	40.86	54	74	-18.35	-33.14	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

3. Display the measurement of peak values.

Date of Test: Mar 10, 2013

Temperature: 25°C

EUT: WIFI CONTROL SPY VEHICLE

Humidity: 50%

Model No.: CR1288

Power Supply: DC 3.7V

Test Mode: 802.11b Channel High 2462MHz

Test Engineer: Ricky

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	41.98	46.08	-7.37	34.61	38.71	54	74	-19.39	-35.29	Vertical
2487.904	41.55	46.39	-7.38	34.17	39.01	54	74	-19.83	-34.99	Vertical
2500.000	42.17	47.50	-7.40	34.77	40.10	54	74	-19.23	-33.90	Vertical
2483.500	42.57	47.22	-7.37	35.20	39.85	54	74	-18.80	-34.15	Horizontal
2487.904	41.58	46.28	-7.38	34.20	38.90	54	74	-19.80	-35.10	Horizontal
2500.000	42.22	47.08	-7.40	34.82	39.68	54	74	-19.18	-34.32	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Date of Test:	Mar 10, 2013	Temperature:	25°C
EUT:	WIFI CONTROL SPY VEHICLE	Humidity:	50%
Model No.:	CR1288	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Ricky

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	42.17	47.01	-7.81	34.36	39.20	54	74	-19.64	-34.80	Vertical
2332.170	43.57	47.74	-7.81	35.76	39.93	54	74	-18.24	-34.07	Vertical
2390.000	42.39	47.44	-7.53	34.86	39.91	54	74	-19.14	-34.09	Vertical
2310.000	41.57	46.74	-7.81	33.76	38.93	54	74	-20.24	-35.07	Horizontal
2332.170	42.58	46.07	-7.81	34.77	38.26	54	74	-19.23	-35.74	Horizontal
2390.000	40.17	45.66	-7.53	32.64	38.13	54	74	-21.36	-35.87	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$
3. Display the measurement of peak values.

Date of Test:	Mar 10, 2013	Temperature:	25°C
EUT:	WIFI CONTROL SPY VEHICLE	Humidity:	50%
Model No.:	CR1288	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Ricky

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	41.68	46.01	-7.37	34.31	38.64	54	74	-19.69	-35.36	Vertical
2487.680	40.58	46.20	-7.38	33.20	38.82	54	74	-20.80	-35.18	Vertical
2500.000	43.58	48.25	-7.40	36.18	40.85	54	74	-17.82	-33.15	Vertical
2483.500	41.47	46.32	-7.37	34.10	38.95	54	74	-19.90	-35.05	Horizontal
2487.910	42.17	47.13	-7.38	34.79	39.75	54	74	-19.21	-34.25	Horizontal
2500.000	41.18	46.34	-7.40	33.78	38.94	54	74	-20.22	-35.06	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.


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Site: 966 chamber

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Fax:+86-0755-26503396

Job No.: RUCKY1 #26

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX Channel 1(802.11b)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

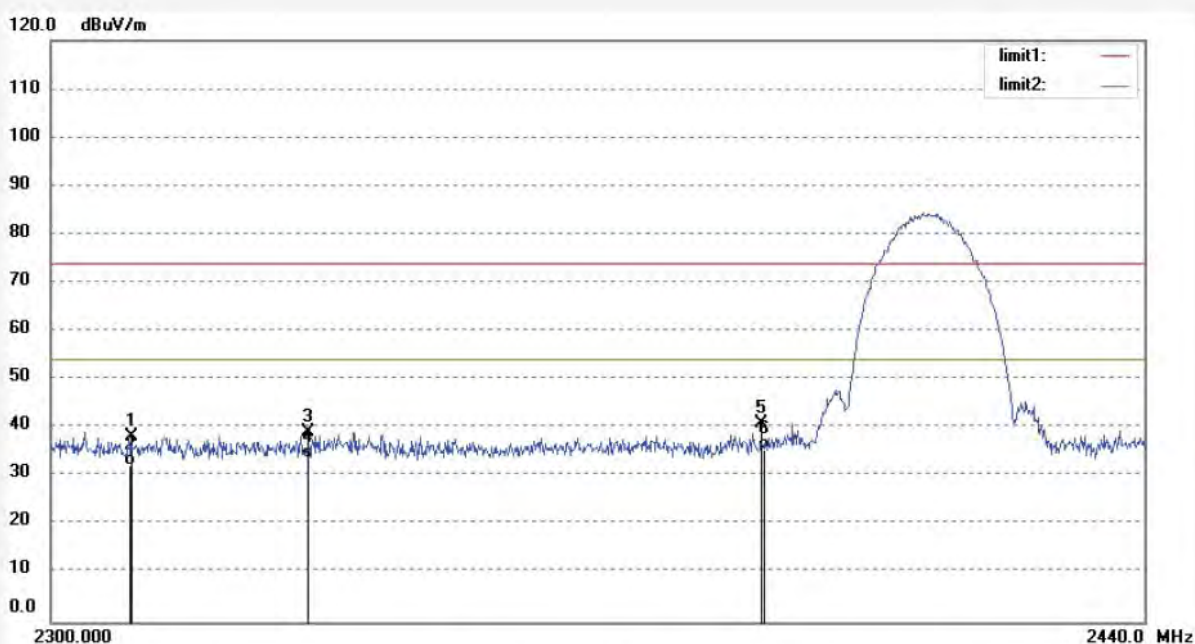
Date: 2013/03/10/

Time: 21:27:16

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	45.98	-7.81	38.17	74.00	-35.83	peak			
2	2310.000	40.15	-7.81	32.34	54.00	-21.66	AVG			
3	2332.136	46.94	-7.81	39.13	74.00	-34.87	peak			
4	2332.136	41.68	-7.81	33.87	54.00	-20.13	AVG			
5	2390.000	48.39	-7.53	40.86	74.00	-33.14	peak			
6	2390.000	43.18	-7.53	35.65	54.00	-18.35	AVG			



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Job No.: RUCKY1 #27

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX Channel 1(802.11b)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

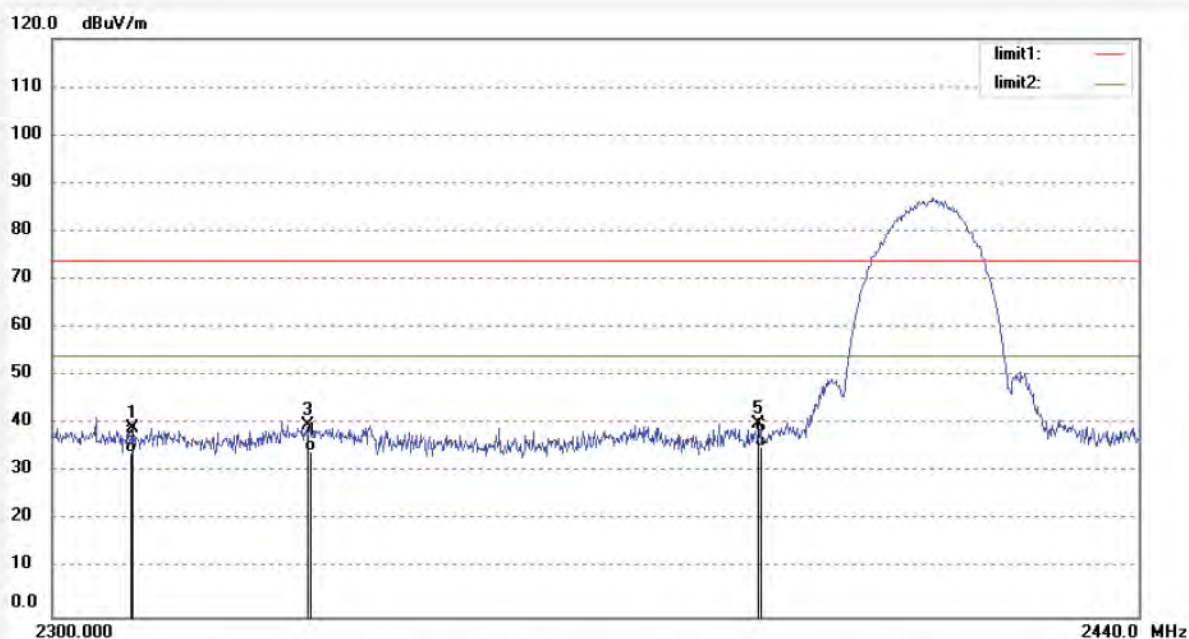
Date: 2013/03/10/

Time: 21:31:32

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	47.06	-7.81	39.25	74.00	-34.75	peak			
2	2310.000	41.99	-7.81	34.18	54.00	-19.82	AVG			
3	2332.164	47.56	-7.81	39.75	74.00	-34.25	peak			
4	2332.164	42.19	-7.81	34.38	54.00	-19.62	AVG			
5	2390.000	47.44	-7.53	39.91	74.00	-34.09	peak			
6	2390.000	42.78	-7.53	35.25	54.00	-18.75	AVG			



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Job No.: RUCKY1 #28

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX Channel 11(802.11b)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

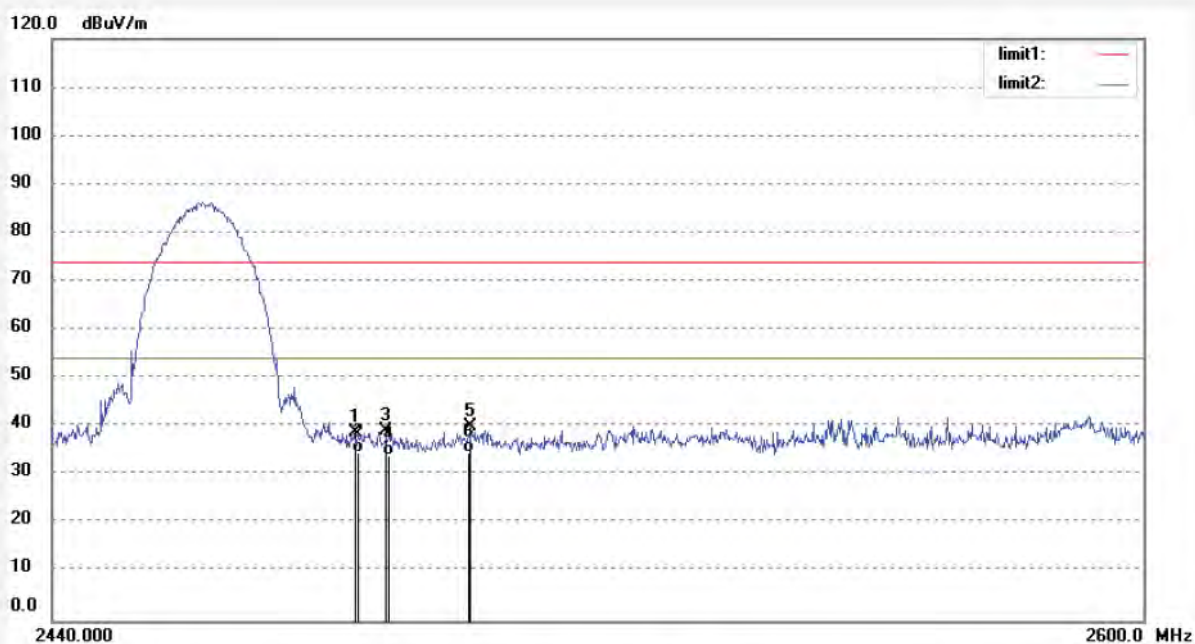
Date: 2013/03/10/

Time: 21:35:25

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.08	-7.37	38.71	74.00	-35.29	peak			
2	2483.500	41.98	-7.37	34.61	54.00	-19.39	AVG			
3	2487.904	46.39	-7.38	39.01	74.00	-34.99	peak			
4	2487.904	41.55	-7.38	34.17	54.00	-19.83	AVG			
5	2500.000	47.50	-7.40	40.10	74.00	-33.90	peak			
6	2500.000	42.17	-7.40	34.77	54.00	-19.23	AVG			



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Job No.: RUCKY1 #29

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX Channel 11(802.11b)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

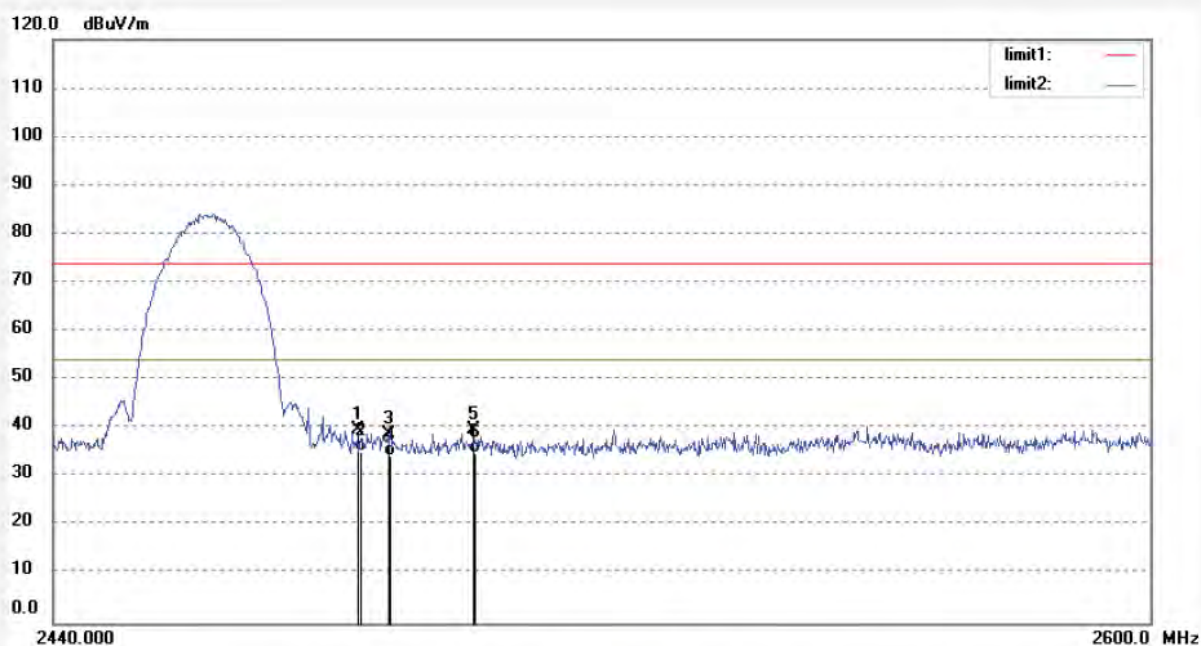
Date: 2013/03/10/

Time: 21:38:45

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	47.22	-7.37	39.85	74.00	-34.15	peak			
2	2483.500	42.57	-7.37	35.20	54.00	-18.80	AVG			
3	2487.904	46.28	-7.38	38.90	74.00	-35.10	peak			
4	2487.904	41.58	-7.38	34.20	54.00	-19.80	AVG			
5	2500.000	47.08	-7.40	39.68	74.00	-34.32	peak			
6	2500.000	42.22	-7.40	34.82	54.00	-19.18	AVG			



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Job No.: RUCKY1 #30

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX Channel 11(802.11g)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

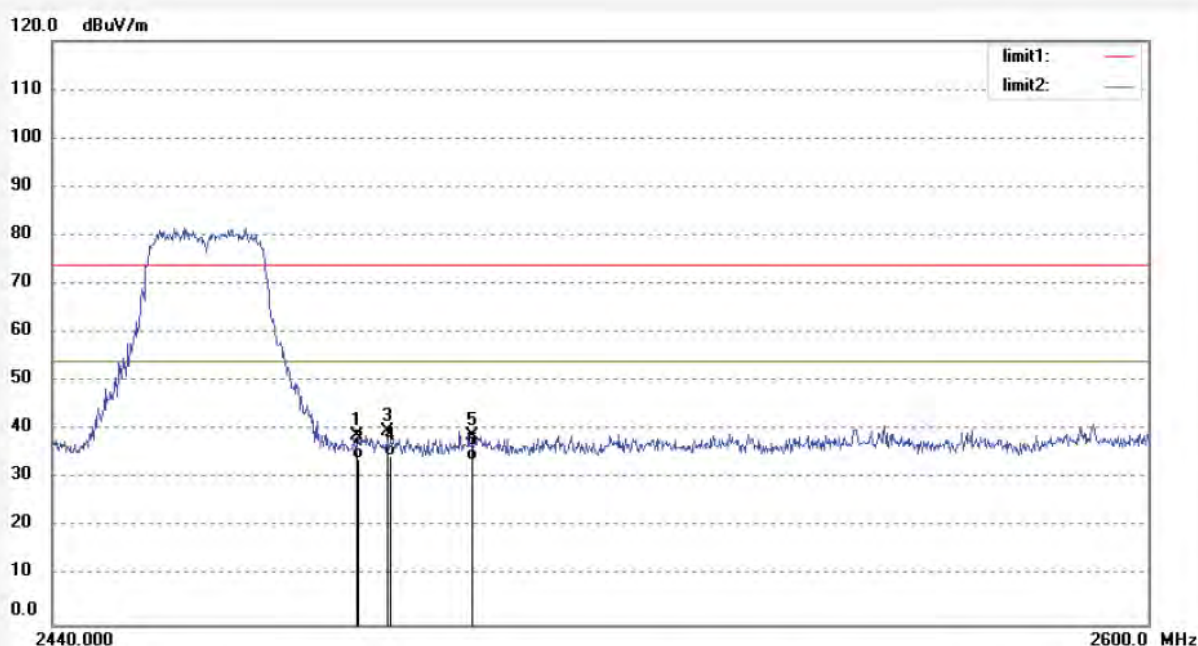
Date: 2013/03/10/

Time: 21:43:24

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.32	-7.37	38.95	74.00	-35.05	peak			
2	2483.500	41.47	-7.37	34.10	54.00	-19.90	AVG			
3	2487.910	47.13	-7.38	39.75	74.00	-34.25	peak			
4	2487.910	42.17	-7.38	34.79	54.00	-19.21	AVG			
5	2500.000	46.34	-7.40	38.94	74.00	-35.06	peak			
6	2500.000	41.18	-7.40	33.78	54.00	-20.22	AVG			



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Job No.: RUCKY1 #31

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX Channel 11(802.11g)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

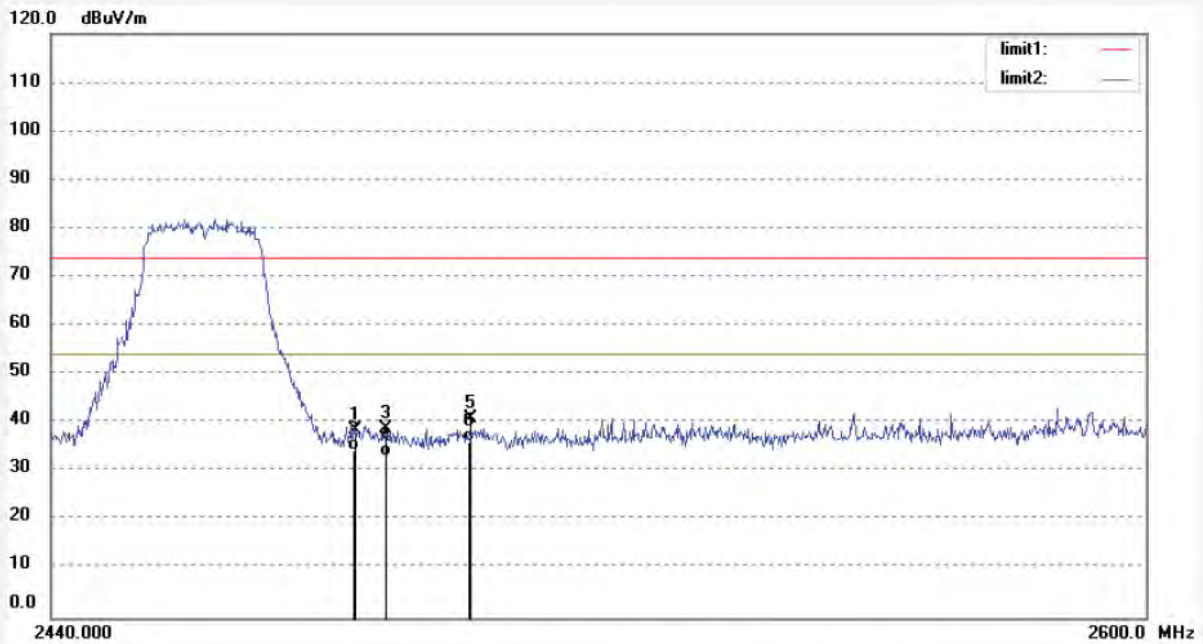
Date: 2013/03/10/

Time: 21:46:38

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.01	-7.37	38.64	74.00	-35.36	peak			
2	2483.500	41.68	-7.37	34.31	54.00	-19.69	AVG			
3	2487.680	46.20	-7.38	38.82	74.00	-35.18	peak			
4	2487.680	40.58	-7.38	33.20	54.00	-20.80	AVG			
5	2500.000	48.25	-7.40	40.85	74.00	-33.15	peak			
6	2500.000	43.58	-7.40	36.18	54.00	-17.82	AVG			



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Job No.: RUCKY1 #32

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX Channel 1(802.11g)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

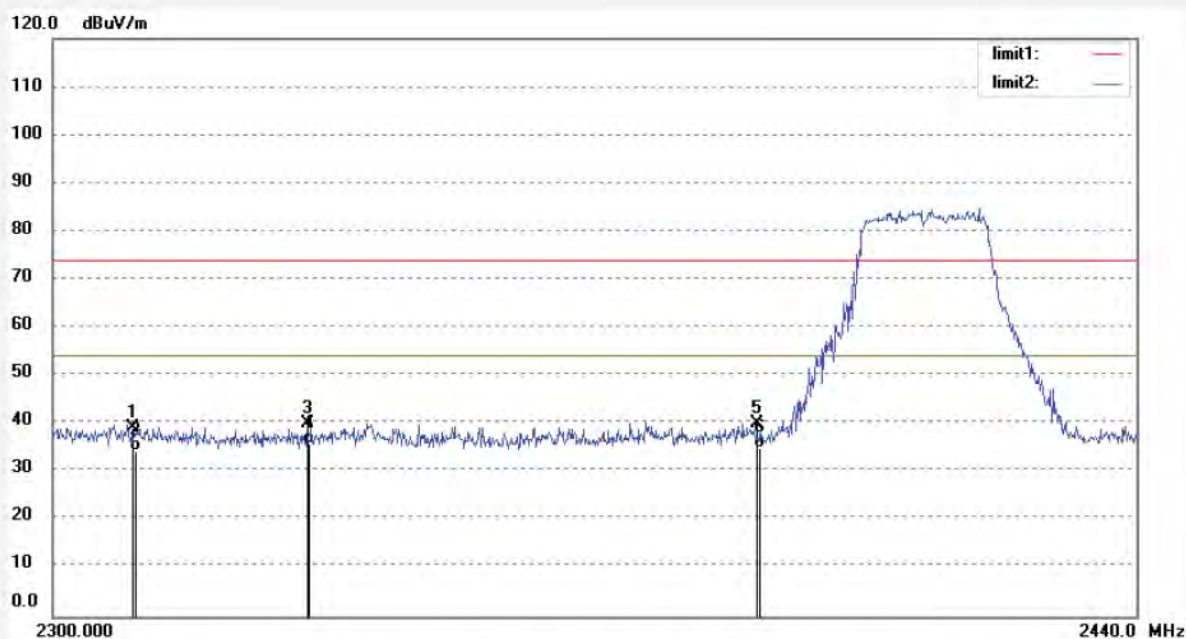
Date: 2013/03/10/

Time: 21:49:19

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	47.01	-7.81	39.20	74.00	-34.80	peak			
2	2310.000	42.17	-7.81	34.36	54.00	-19.64	AVG			
3	2332.170	47.74	-7.81	39.93	74.00	-34.07	peak			
4	2332.170	43.57	-7.81	35.76	54.00	-18.24	AVG			
5	2390.000	47.44	-7.53	39.91	74.00	-34.09	peak			
6	2390.000	42.39	-7.53	34.86	54.00	-19.14	AVG			



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Job No.: RUCKY1 #33

Standard: FCC 15C PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX Channel 1(802.11g)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

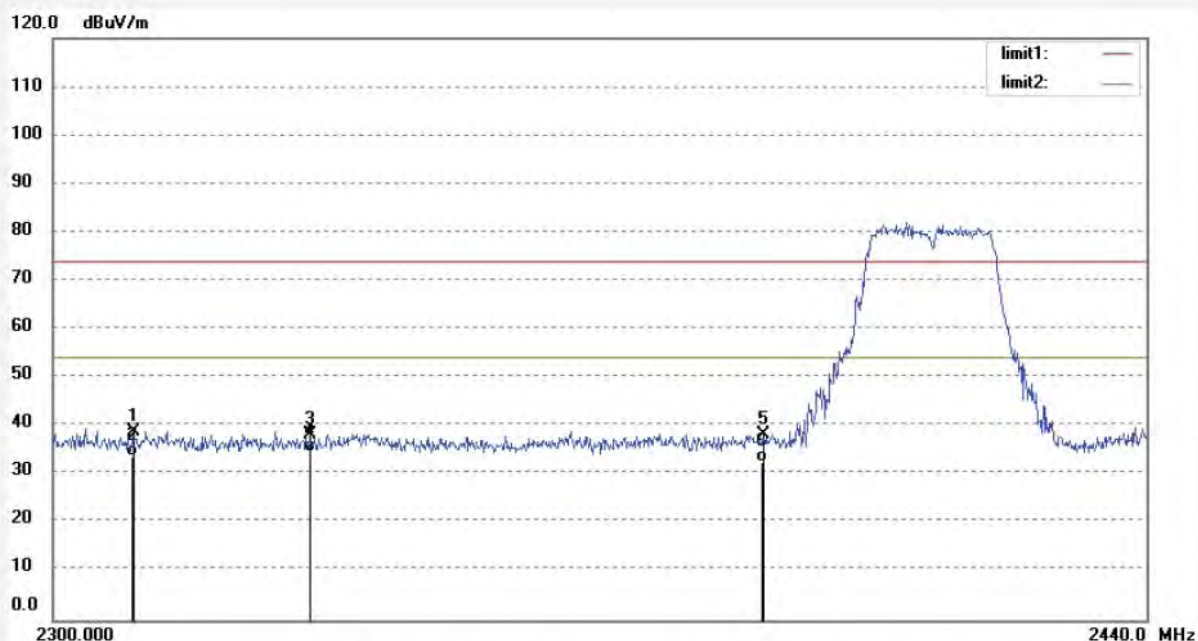
Date: 2013/03/10/

Time: 21:53:38

Engineer Signature: Ricky

Distance: 3m

Note:

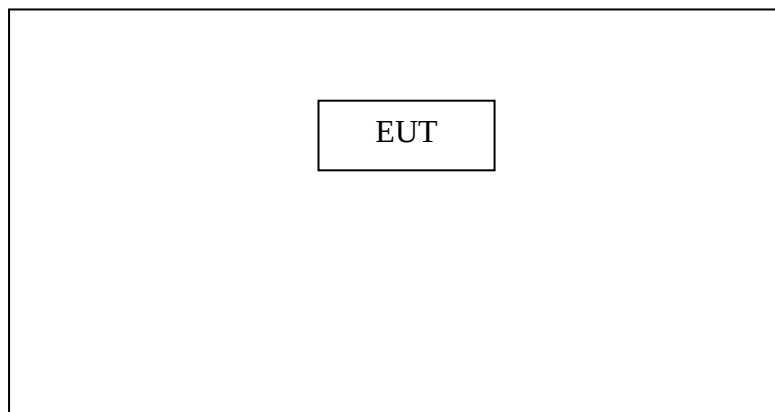


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	46.74	-7.81	38.93	74.00	-35.07	peak			
2	2310.000	41.57	-7.81	33.76	54.00	-20.24	AVG			
3	2332.170	46.07	-7.81	38.26	74.00	-35.74	peak			
4	2332.170	42.58	-7.81	34.77	54.00	-19.23	AVG			
5	2390.000	45.66	-7.53	38.13	74.00	-35.87	peak			
6	2390.000	40.17	-7.53	32.64	54.00	-21.36	AVG			

9. RADIATED SPURIOUS EMISSION TEST

9.1. Block Diagram of Test Setup

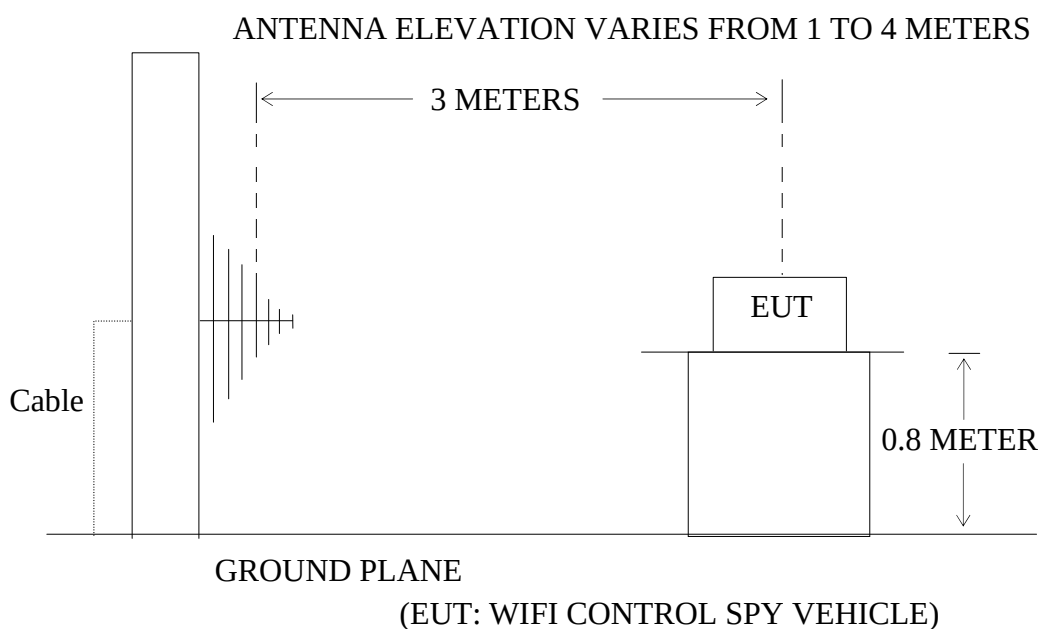
9.1.1. Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

(EUT: WIFI CONTROL SPY VEHICLE)

9.1.2. Semi-Anechoic Chamber Test Setup Diagram



9.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

9.3.Restricted bands of operation

9.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

9.4.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4.1.WIFI CONTROL SPY VEHICLE (EUT)

Model Number : CR1288
 Serial Number : N/A
 Manufacturer : ShantouYongTong toys&crafts CO. LTD

9.5.Operating Condition of EUT

9.5.1.Setup the EUT and simulator as shown as Section 9.1.

9.5.2.Turn on the power of all equipment.

9.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

9.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The worst-case data rate for this channel to be 1Mbps for 802.11b mode and 6Mbps for 802.11g mode and 300Mbps for 802.11n mode, based on previous with 802.11 WLAN product design architectures.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 25GHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

9.7.The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	Mar 10, 2013	Temperature:	25°C
EUT:	WIFI CONTROL SPY VEHICLE	Humidity:	50%
Model No.:	CR1288	Power Supply:	DC 3.7V
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Ricky

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
159.1982	27.40	12.01	39.41	43.50	-4.09	Vertical
233.4881	24.11	16.52	40.63	46.00	-5.37	Vertical
364.8025	20.29	21.46	41.75	46.00	-4.25	Vertical
75.5858	23.33	11.37	34.70	40.00	-5.30	Horizontal
182.5783	24.07	13.46	37.53	43.50	-5.97	Horizontal
291.3387	23.84	18.61	42.45	46.00	-3.55	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4824.000	---	---	---	---	---	54	74	---	---	Vertical
4824.000	---	---	---	---	---	54	74	---	---	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

Date of Test:	Mar 10, 2013	Temperature:	25°C
EUT:	WIFI CONTROL SPY VEHICLE	Humidity:	50%
Model No.:	CR1288	Power Supply:	DC 3.7V
Test Mode:	802.11b Channel Middle 2437MHz	Test Engineer:	Ricky

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
213.8532	25.40	14.50	39.90	43.50	-3.60	Vertical
291.3387	21.92	18.61	40.53	46.00	-5.47	Vertical
362.2479	20.05	21.35	41.40	46.00	-4.60	Vertical
45.8943	20.88	14.45	35.33	40.00	-4.67	Horizontal
189.1074	25.27	13.86	39.13	43.50	-4.37	Horizontal
283.2635	23.55	18.38	41.93	46.00	-4.07	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4874.000	---	---	---	---	---	54	74	---	---	Vertical
4874.000	---	---	---	---	---	54	74	---	---	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test: Mar 10, 2013

Temperature: 25°C

EUT: WIFI CONTROL SPY VEHICLE

Humidity: 50%

Model No.: CR1288

Power Supply: DC 3.7V

Test Mode: 802.11b Channel High 2462MHz

Test Engineer: Ricky

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
140.7767	20.86	11.49	32.35	43.50	-11.15	Vertical
349.7411	18.25	20.75	39.00	46.00	-7.00	Vertical
478.1394	16.30	23.81	40.11	46.00	-5.89	Vertical
140.7767	22.86	11.49	34.35	43.50	-9.15	Horizontal
237.6262	24.26	16.78	41.04	46.00	-4.96	Horizontal
360.9775	19.08	21.29	40.37	46.00	-5.63	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4924.000	---	---	---	---	---	54	74	---	---	Vertical
4924.000	---	---	---	---	---	54	74	---	---	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test:	Mar 10, 2013	Temperature:	25°C
EUT:	WIFI CONTROL SPY VEHICLE	Humidity:	50%
Model No.:	CR1288	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Ricky

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
35.1388	15.27	15.66	30.93	40.00	-9.07	Vertical
235.1346	16.92	16.82	33.74	46.00	-12.26	Vertical
349.7411	19.48	20.75	40.23	46.00	-5.77	Vertical
283.2635	19.18	18.38	37.56	46.00	-8.44	Horizontal
349.7411	20.98	20.75	41.73	46.00	-4.27	Horizontal
478.1394	18.60	23.81	42.41	46.00	-3.59	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4824.000	---	---	---	---	---	54	74	---	---	Vertical
4824.000	---	---	---	---	---	54	74	---	---	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test:	Mar 10, 2013	Temperature:	25°C
EUT:	WIFI CONTROL SPY VEHICLE	Humidity:	50%
Model No.:	CR1288	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel Middle 2437MHz	Test Engineer:	Ricky

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
34.8928	18.07	15.70	33.77	40.00	-6.23	Vertical
140.7767	24.36	11.49	35.85	43.50	-7.65	Vertical
237.6262	22.26	16.78	39.04	46.00	-6.96	Vertical
140.7767	23.23	11.49	34.72	43.50	-8.78	Horizontal
212.3557	24.11	14.44	38.55	43.50	-4.95	Horizontal
291.3387	21.49	18.61	40.10	46.00	-5.90	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4874.000	---	---	---	---	---	54	74	---	---	Vertical
4874.000	---	---	---	---	---	54	74	---	---	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**

Date of Test:	Mar 10, 2013	Temperature:	25°C
EUT:	WIFI CONTROL SPY VEHICLE	Humidity:	50%
Model No.:	CR1288	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Ricky

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	X
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
139.3006	22.18	11.66	33.84	43.50	-9.66	Vertical
283.2635	17.68	18.38	36.06	46.00	-9.94	Vertical
349.7411	19.48	20.75	40.23	46.00	-5.77	Vertical
139.3006	23.68	11.66	35.34	43.50	-8.19	Horizontal
283.2635	22.18	18.38	40.56	46.00	-5.44	Horizontal
358.4497	20.65	21.20	41.85	46.00	-4.15	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4924.000	---	---	---	---	---	54	74	---	---	Vertical
4924.000	---	---	---	---	---	54	74	---	---	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.**



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Job No.: rucky1 #1

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH1)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

Date: 2013/03/10

Time: 1:50:11

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	159.1982	27.40	12.01	39.41	43.50	-4.09	QP			
2	233.4881	24.11	16.52	40.63	46.00	-5.37	QP			
3	364.8025	20.29	21.46	41.75	46.00	-4.25	QP			



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Job No.: rucky1 #2

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH1)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

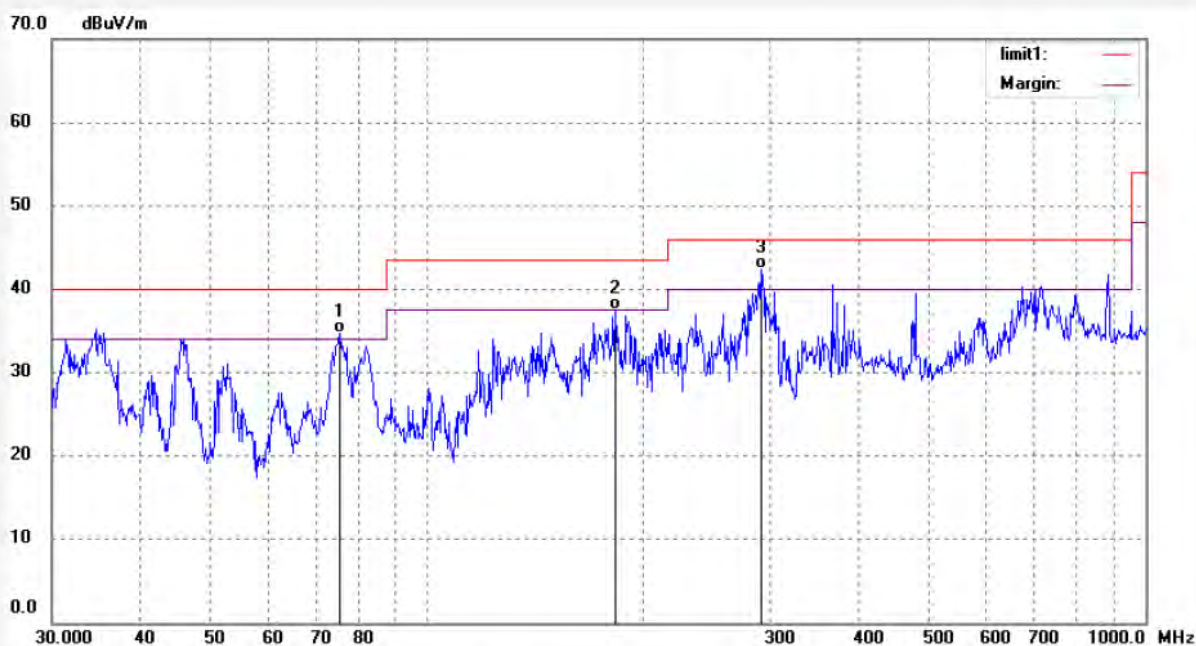
Date: 2013/03/10/

Time:1/54/58

Engineer Signature: LGWADE

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	75.5858	23.33	11.37	34.70	40.00	-5.30	QP			
2	182.5783	24.07	13.46	37.53	43.50	-5.97	QP			
3	291.3387	23.84	18.61	42.45	46.00	-3.55	QP			



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Job No.: rucky1 #3

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH6)

Model: CR1288

Manufacturer:YongTong

Polarization: Horizontal

Power Source: DC 3.7V

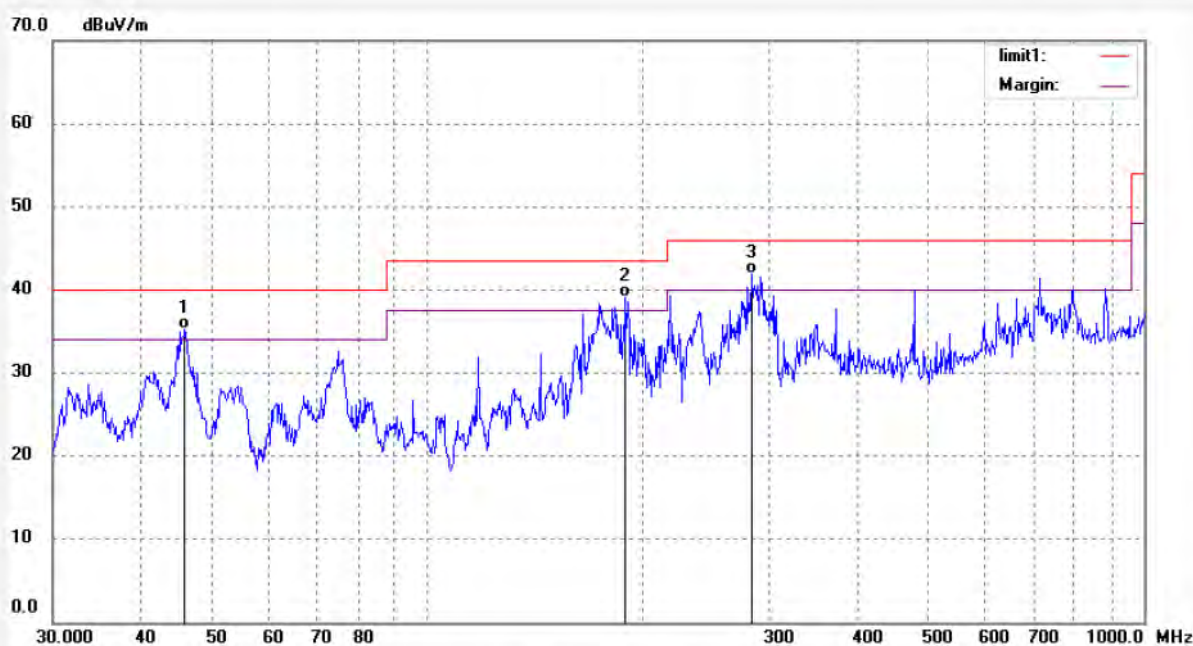
Date: 2013/03/10

Time: 1/57/31

Engineer Signature: LGWADE

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	45.8943	20.88	14.45	35.33	40.00	-4.67	QP			
2	189.1074	25.27	13.86	39.13	43.50	-4.37	QP			
3	283.2635	23.55	18.38	41.93	46.00	-4.07	QP			



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Job No.: rucky1 #4

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH6)

Model: CR1288

Manufacturer:YongTong

Polarization: Vertical

Power Source: DC 3.7V

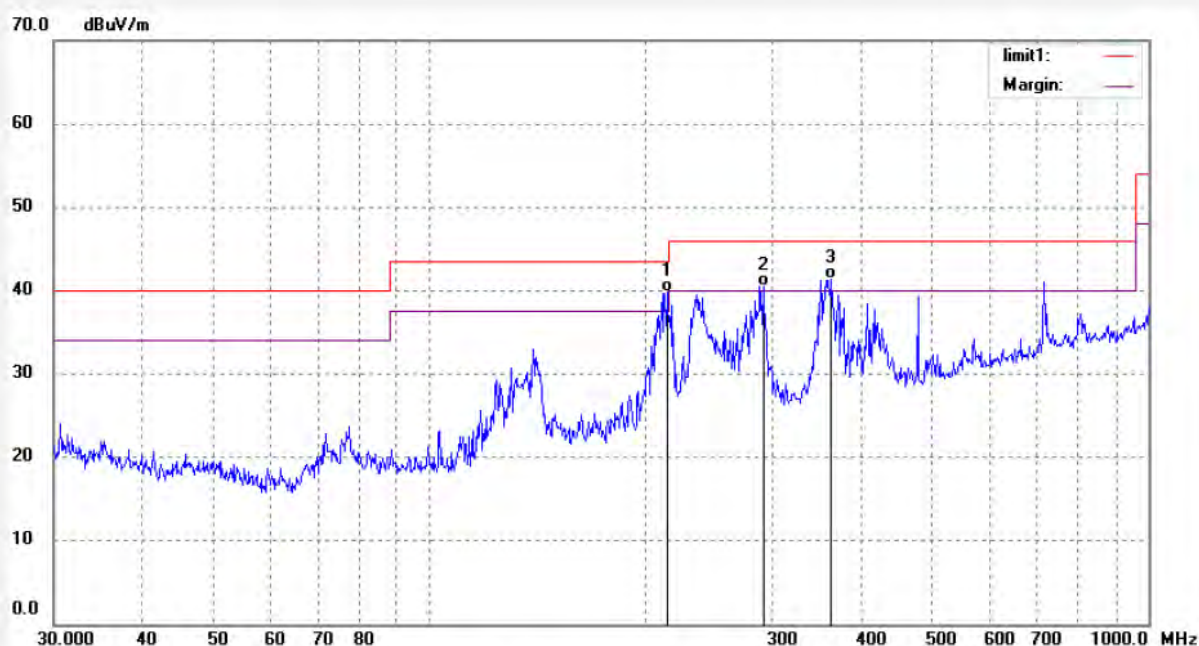
Date: 2013/03/10

Time: 2/01/51

Engineer Signature: LGWADE

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	213.8532	25.40	14.50	39.90	43.50	-3.60	QP			
2	291.3387	21.92	18.61	40.53	46.00	-5.47	QP			
3	362.2479	20.05	21.35	41.40	46.00	-4.60	QP			



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Job No.: rucky1 #5

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH11)

Model: CR1288

Manufacturer:YongTong

Polarization: Vertical

Power Source: DC 3.7V

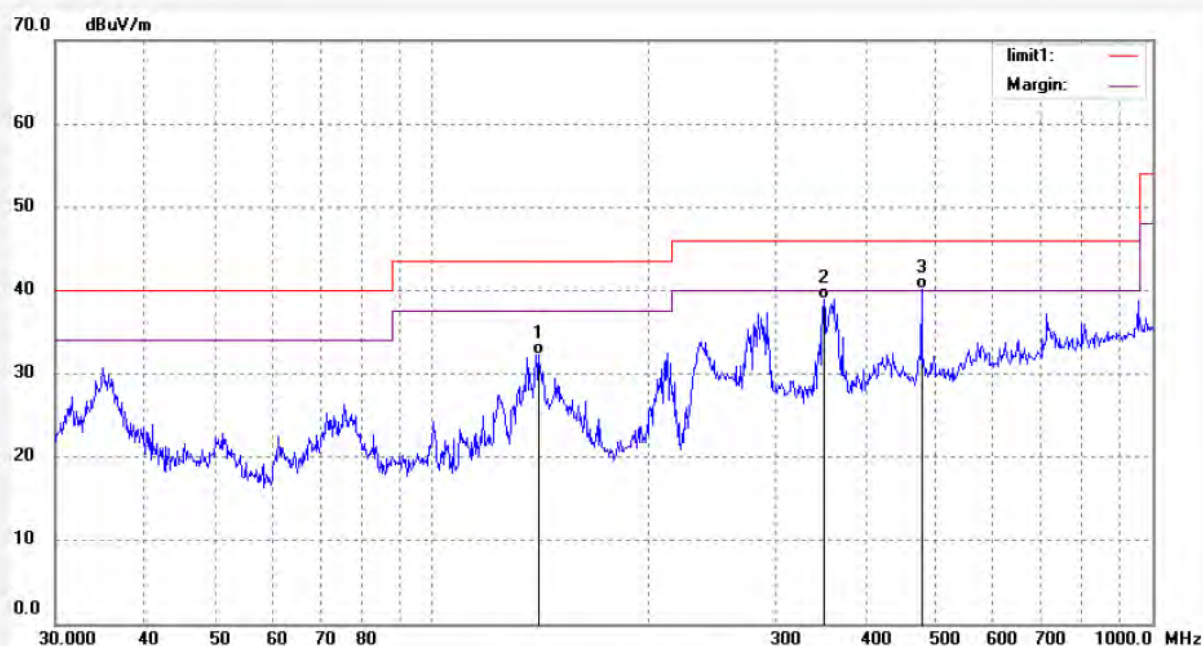
Date: 2013/03/10

Time: 2/03/36

Engineer Signature: LGWADE

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	140.7767	20.86	11.49	32.35	43.50	-11.15	QP			
2	349.7411	18.25	20.75	39.00	46.00	-7.00	QP			
3	478.1394	16.30	23.81	40.11	46.00	-5.89	QP			



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Job No.: rucky1 #6

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH11)

Model: CR1288

Manufacturer:YongTong

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2013/03/10

Time: 2/04/42

Engineer Signature: LGWADE

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	140.7767	22.86	11.49	34.35	43.50	-9.15	QP			
2	237.6262	24.26	16.78	41.04	46.00	-4.96	QP			
3	360.9775	19.08	21.29	40.37	46.00	-5.63	QP			



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Job No.: rucky1 #7

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH1)

Model: CR1288

Manufacturer:YongTong

Polarization: Horizontal

Power Source: DC 3.7V

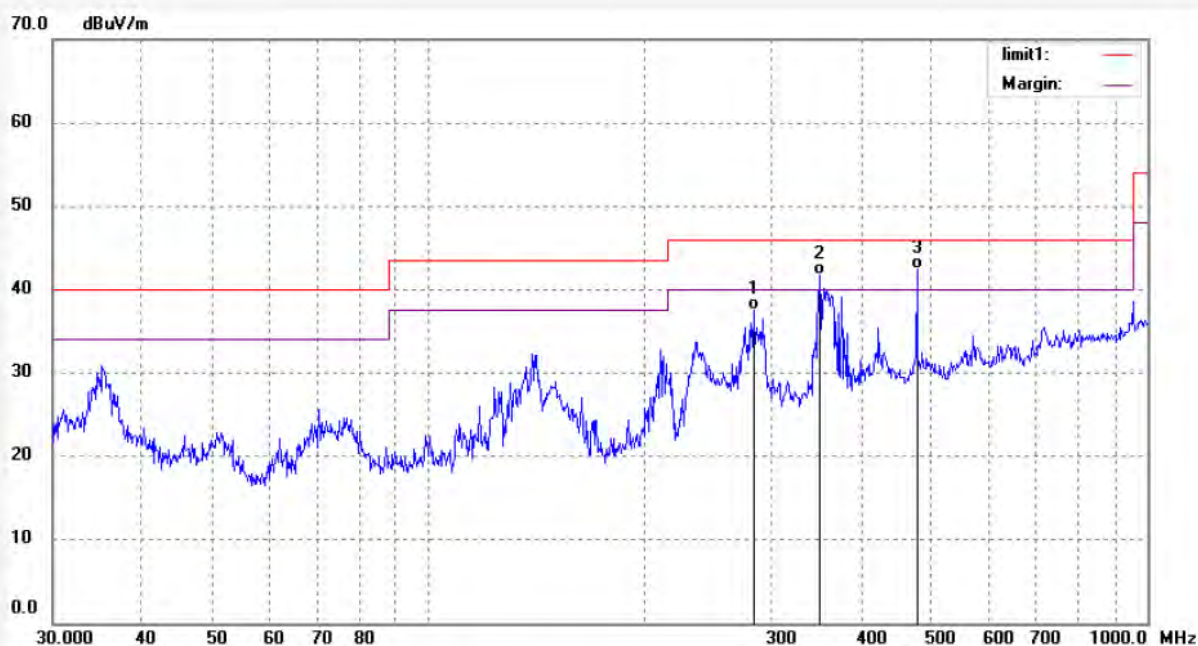
Date: 2013/03/10

Time: 2/07/02

Engineer Signature: LGWADE

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	283.2635	19.18	18.38	37.56	46.00	-8.44	QP			
2	349.7411	20.98	20.75	41.73	46.00	-4.27	QP			
3	478.1394	18.60	23.81	42.41	46.00	-3.59	QP			



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Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: rucky1 #8

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH1)

Model: CR1288

Manufacturer:YongTong

Polarization: Vertical

Power Source: DC 3.7V

Date: 2013/03/10

Time: 2/08/45

Engineer Signature: LGWADE

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.1388	15.27	15.66	30.93	40.00	-9.07	QP			
2	235.1346	16.92	16.82	33.74	46.00	-12.26	QP			
3	349.7411	19.48	20.75	40.23	46.00	-5.77	QP			



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Job No.: rucky1 #9

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH6)

Model: CR1288

Manufacturer:YongTong

Polarization: Horizontal

Power Source: DC 3.7V

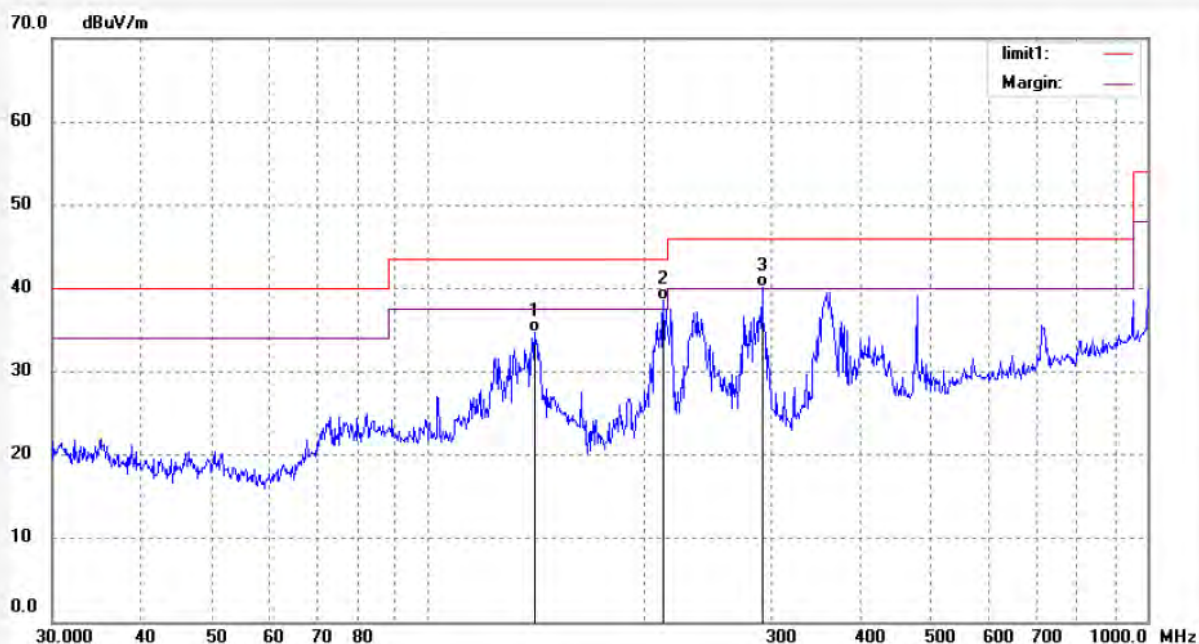
Date: 2013/03/10

Time: 2/10/41

Engineer Signature: LGWADE

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	140.7767	23.23	11.49	34.72	43.50	-8.78	QP			
2	212.3557	24.11	14.44	38.55	43.50	-4.95	QP			
3	291.3387	21.49	18.61	40.10	46.00	-5.90	QP			



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Job No.: rucky1 #10

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH6)

Model: CR1288

Manufacturer:YongTong

Polarization: Vertical

Power Source: DC 3.7V

Date: 2013/03/10

Time: 2/04/42

Engineer Signature: LGWADE

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.8928	18.07	15.70	33.77	40.00	-6.23	QP			
2	140.7767	24.36	11.49	35.85	43.50	-7.65	QP			
3	237.6262	22.26	16.78	39.04	46.00	-6.96	QP			



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Job No.: rucky1 #11

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH11)

Model: CR1288

Manufacturer:YongTong

Polarization: Horizontal

Power Source: DC 3.7V

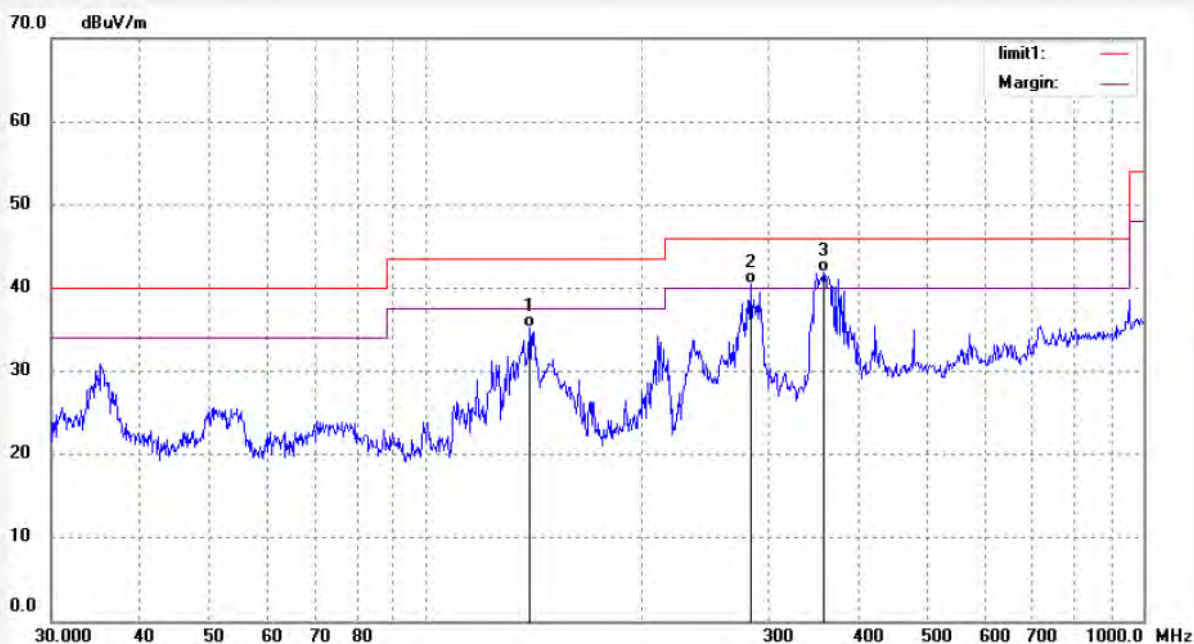
Date: 2013/03/10

Time: 2/07/02

Engineer Signature: LGWADE

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	139.3006	23.68	11.66	35.34	43.50	-8.16	QP			
2	283.2635	22.18	18.38	40.56	46.00	-5.44	QP			
3	358.4497	20.65	21.20	41.85	46.00	-4.15	QP			



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Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: rucky1 #12

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH11)

Model: CR1288

Manufacturer:YongTong

Polarization: Vertical

Power Source: DC 3.7V

Date: 2013/03/10

Time: 2/08/45

Engineer Signature: LGWADE

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	139.3006	22.18	11.66	33.84	43.50	-9.66	QP			
2	283.2635	17.68	18.38	36.06	46.00	-9.94	QP			
3	349.7411	19.48	20.75	40.23	46.00	-5.77	QP			


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Site: 1# Chamber

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Job No.: rucky1 #14

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH1)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

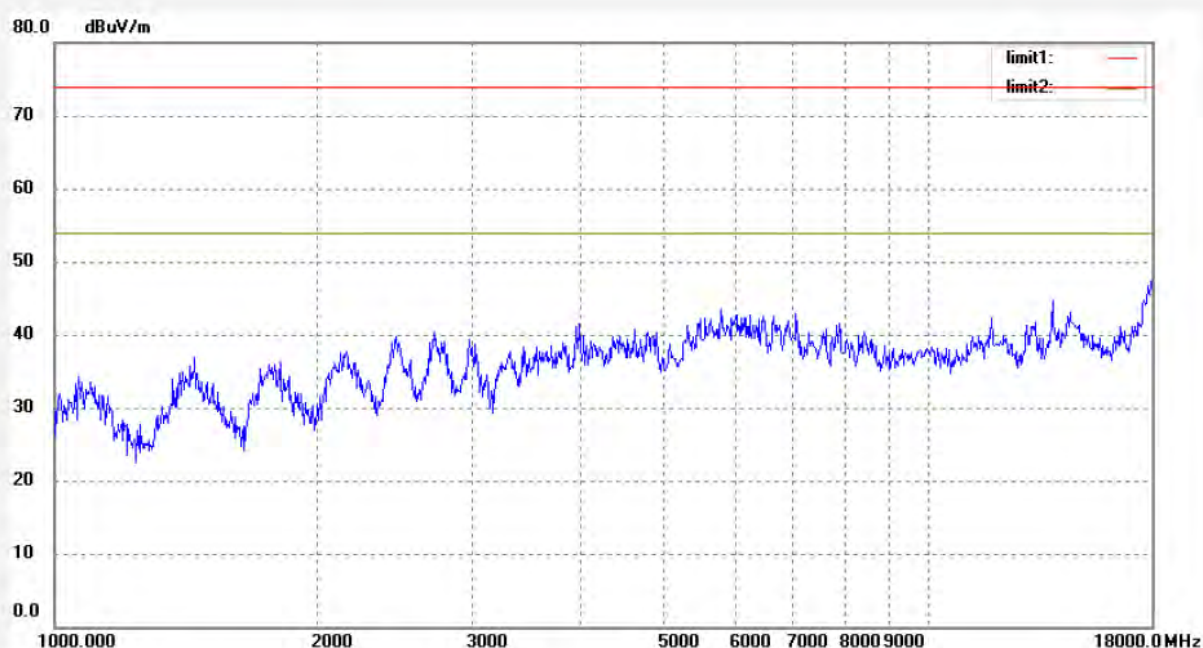
Date: 2013/03/10

Time: 3/45/11

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Job No.: rucky1 #15

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH1)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

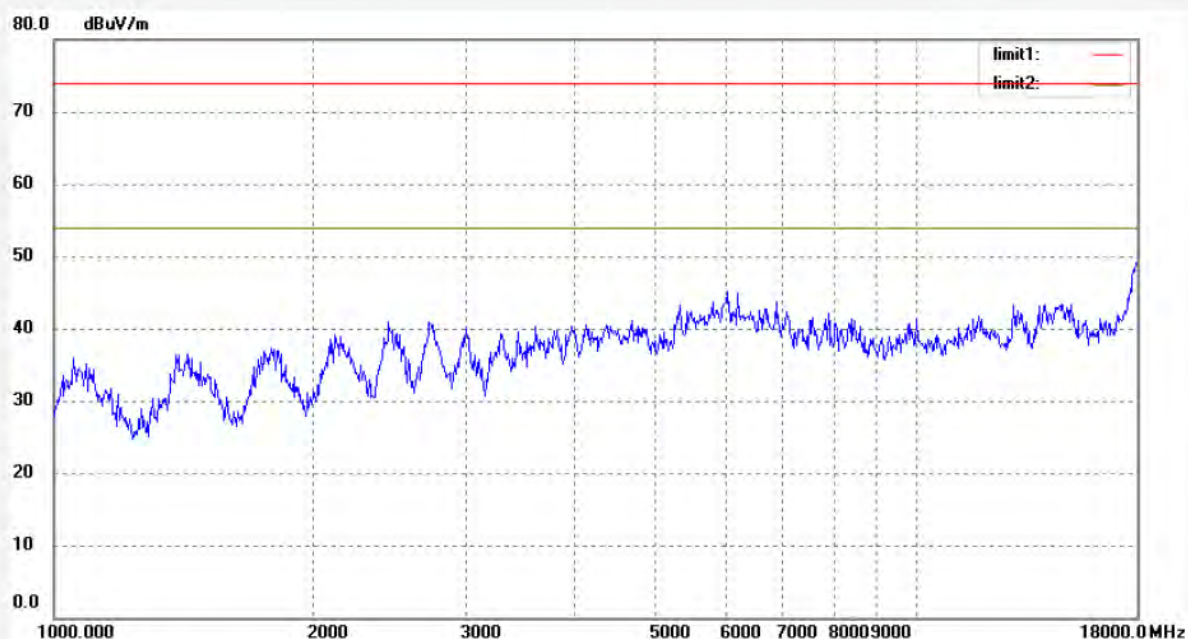
Date: 2013/03/10

Time: 3/47/31

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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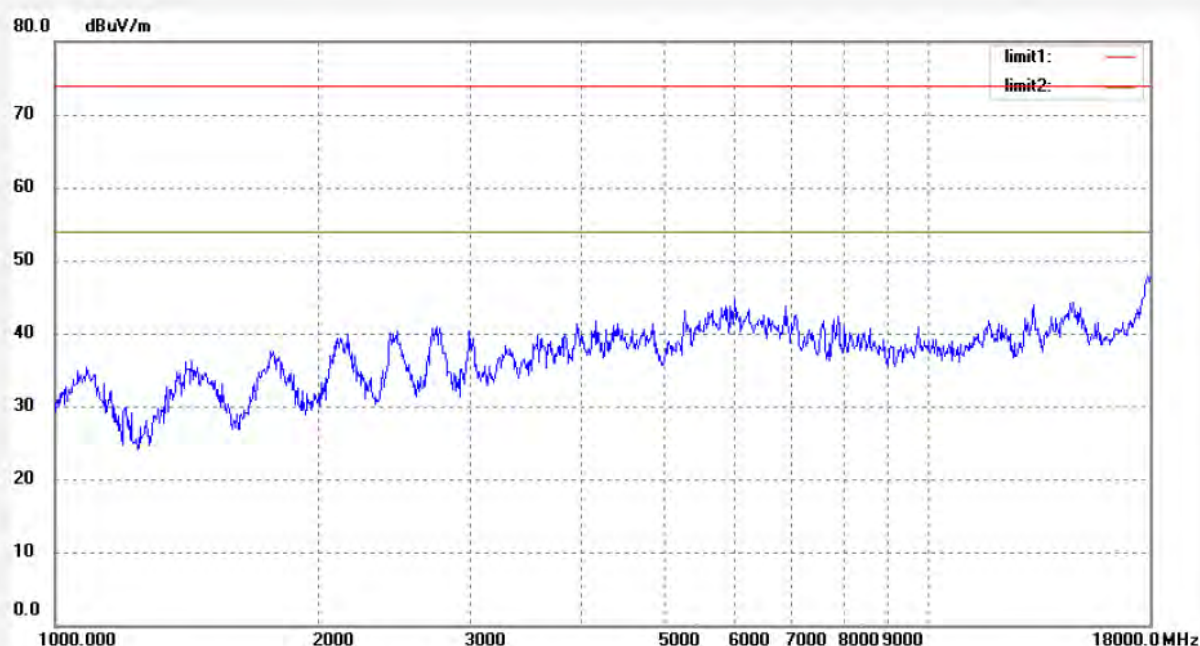
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Job No.: rucky1 #16	Polarization: Vertical
Standard: FCC PART 15B (PK)	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2013/03/10
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 3/52/22
EUT: WIFI CONTROL SPY VEHICLE	Engineer Signature: Ricky
Mode: TX802.11B (CH6)	Distance: 3m
Model: CR1288	
Manufacturer: YongTong	

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Job No.: rucky1 #17

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH6)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

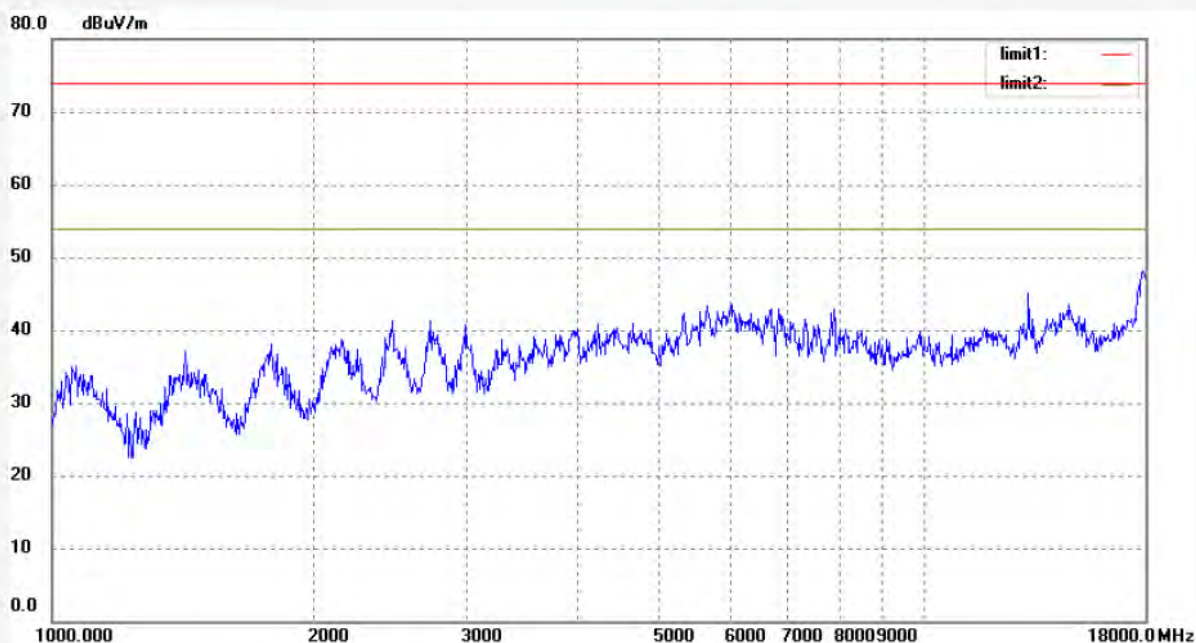
Date: 2013/03/10

Time: 3/54/32

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Job No.: rucky1 #18

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH11)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

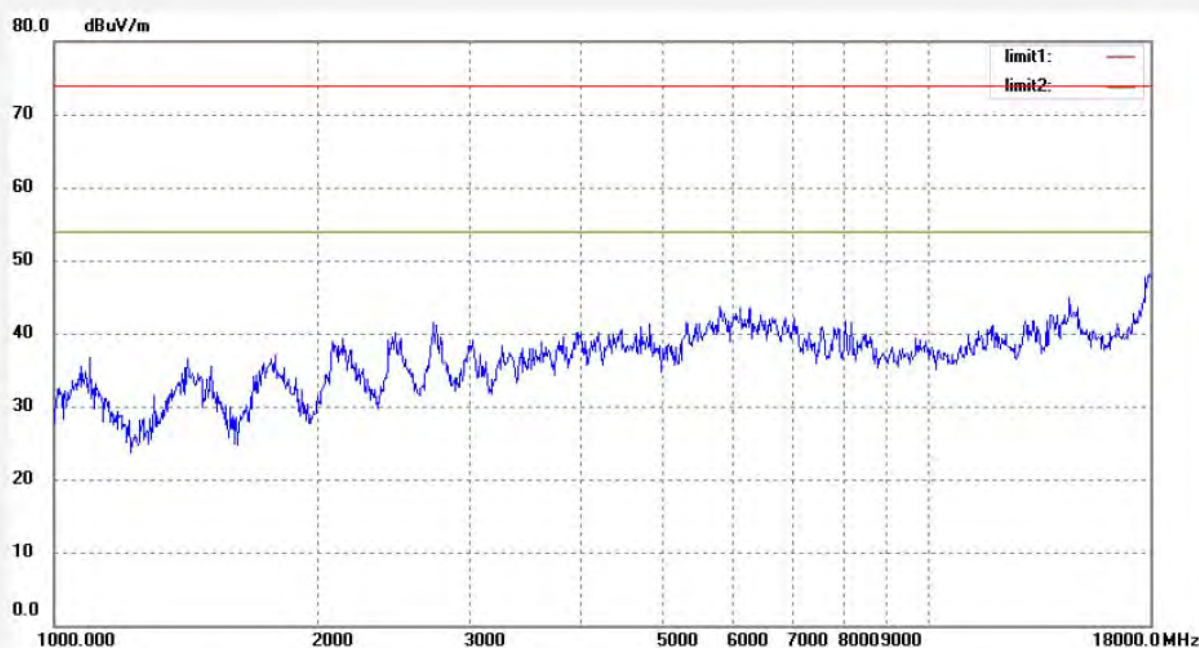
Date: 2013/03/10

Time: 3/58/43

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Job No.: rucky1 #19

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH11)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

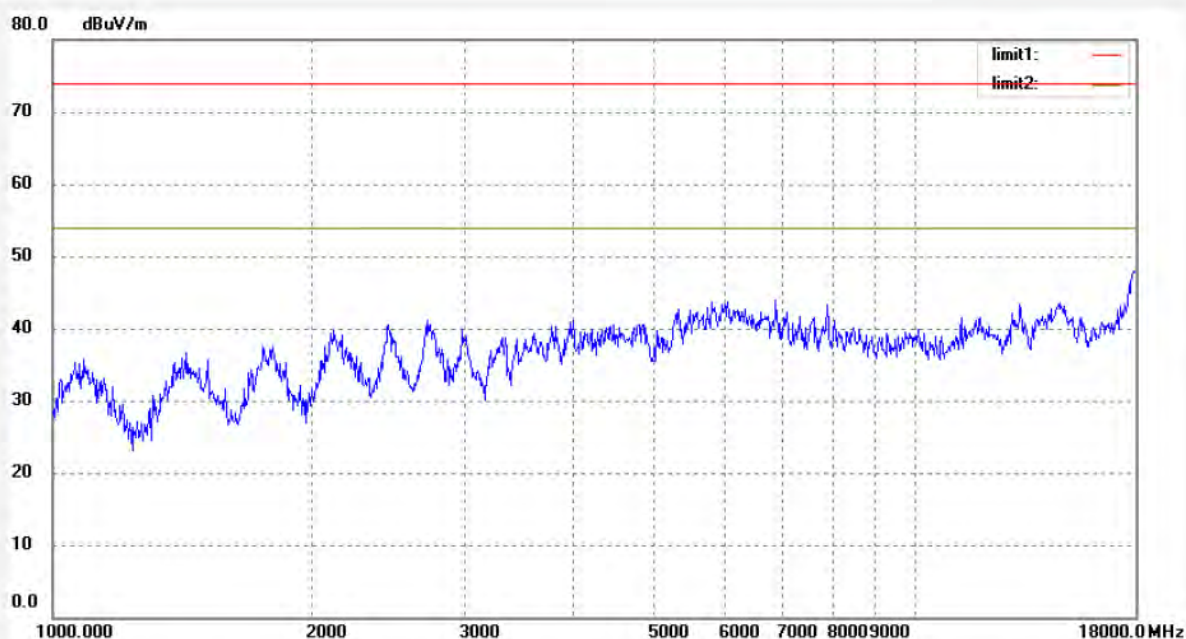
Date: 2013/03/10

Time: 4/03/55

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 1# Chamber

Tel:+86-0755-26503290

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Job No.: rucky1 #20

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH1)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

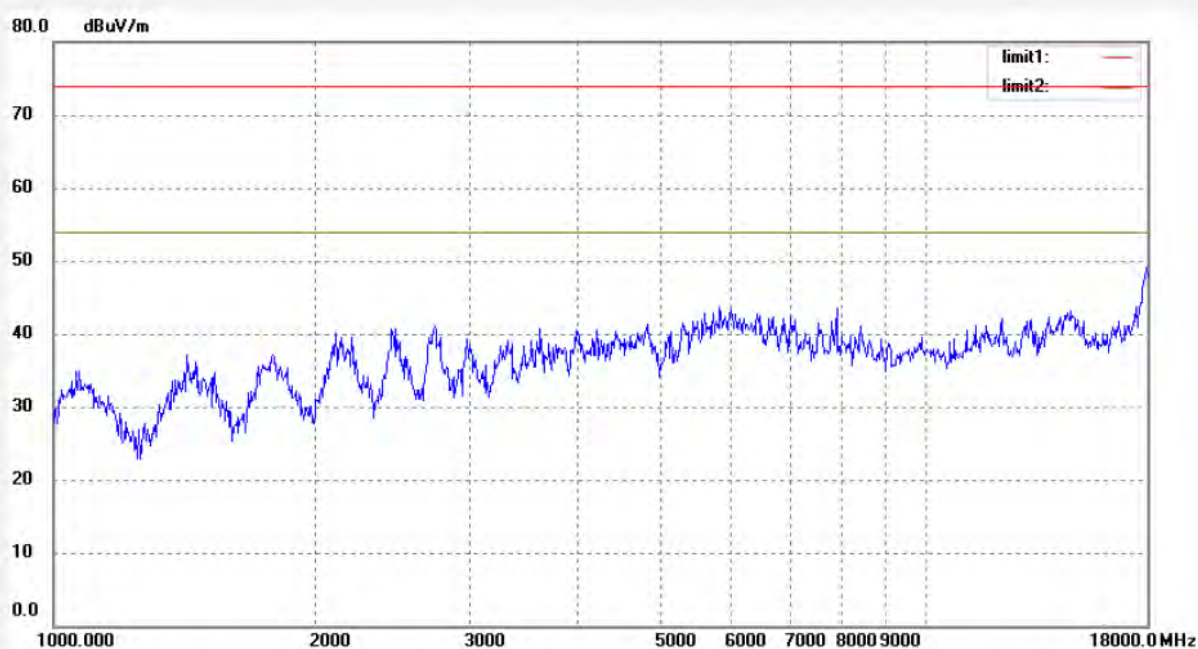
Date: 2013/03/10

Time: 4/08/07

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 1# Chamber

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Job No.: rucky1 #21

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH1)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

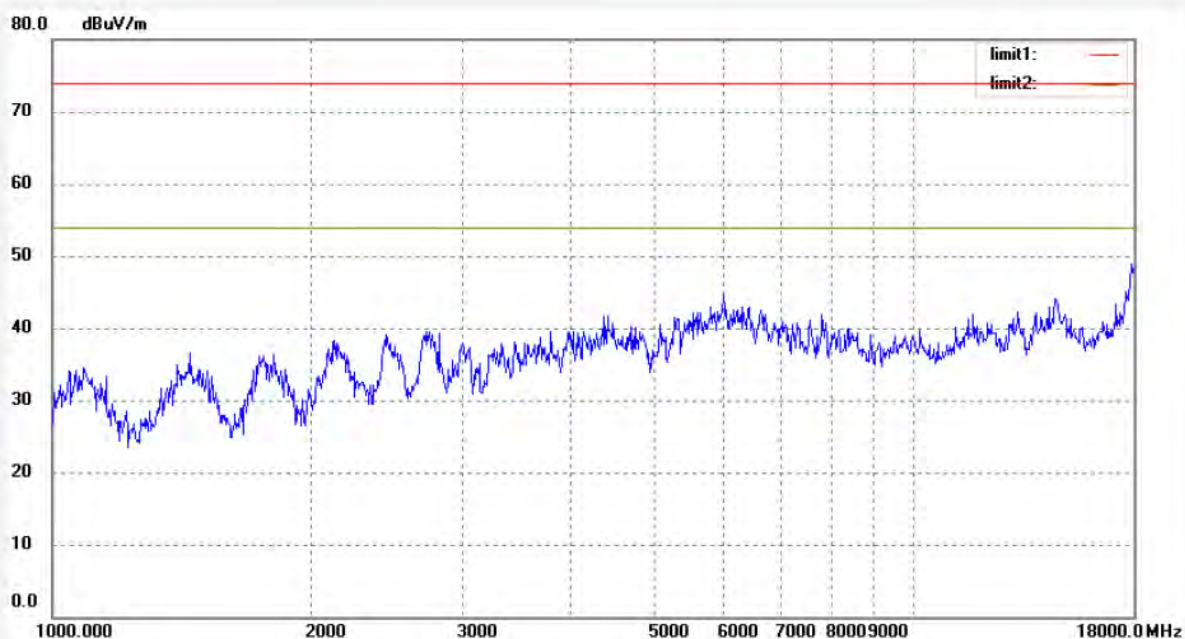
Date: 2013/03/10

Time: 4/13/17

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Job No.: rucky1 #22

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH6)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

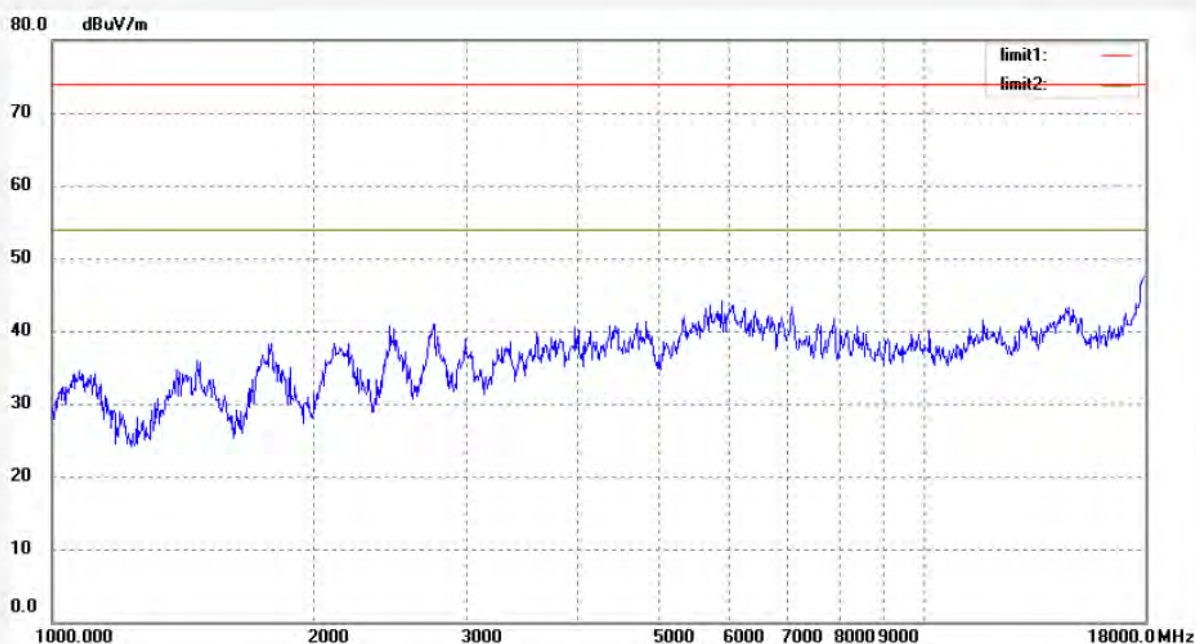
Date: 2013/03/10

Time: 4/16/29

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: rucky1 #23

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH6)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

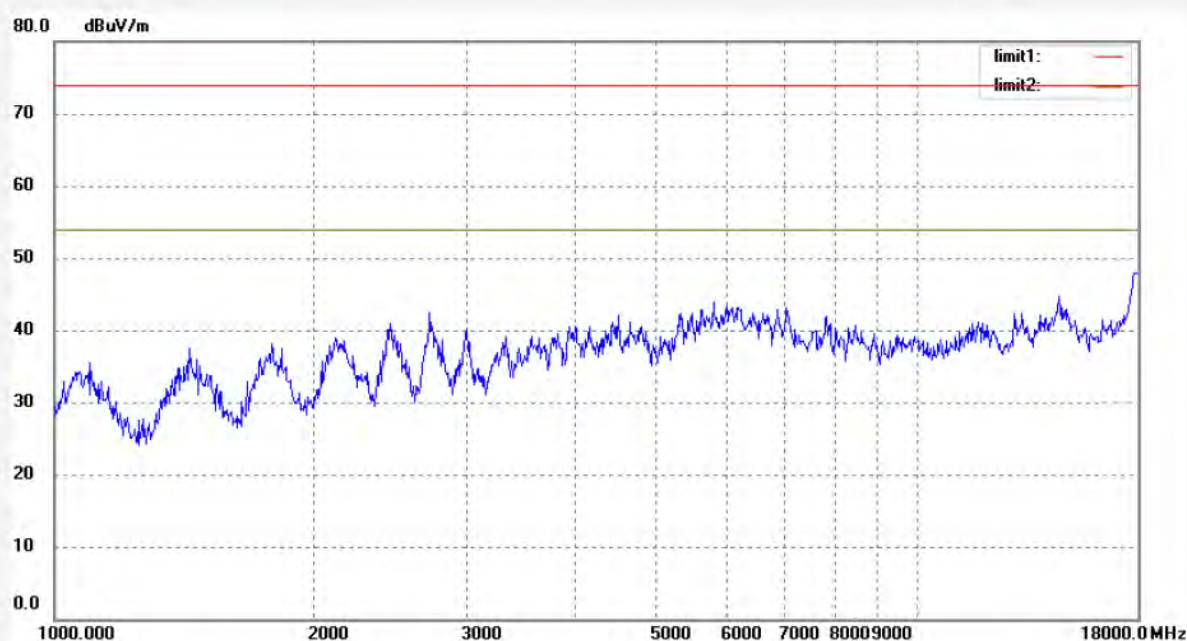
Date: 2013/03/10

Time: 4/19/02

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Job No.: rucky1 #24

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH11)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

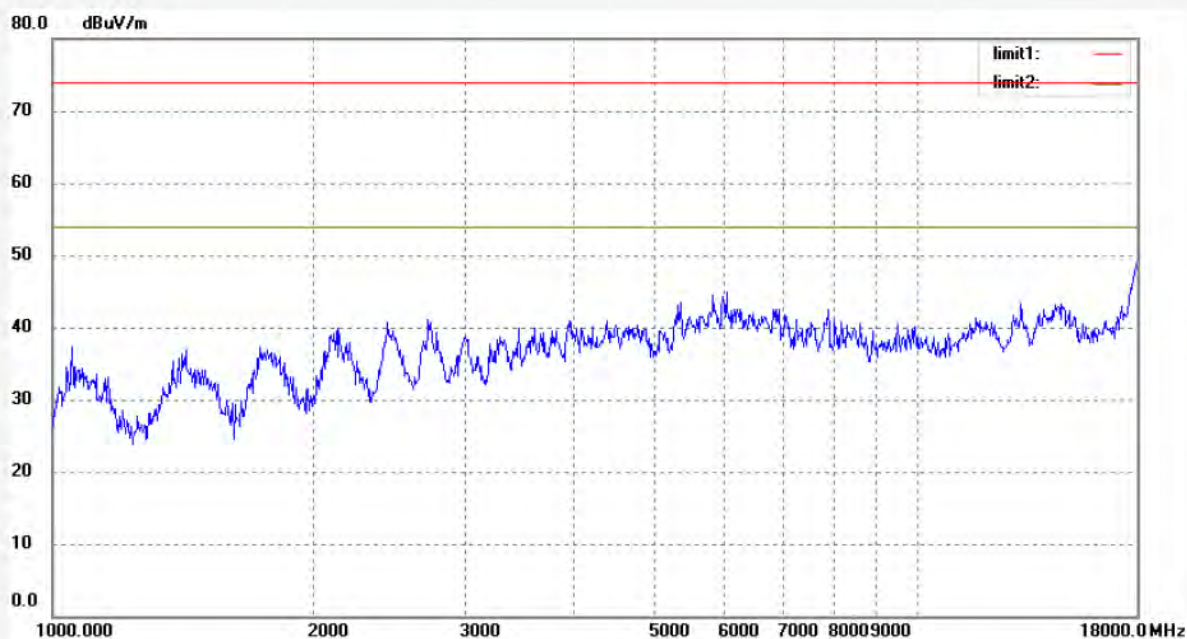
Date: 2013/03/10

Time: 4/23/30

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 1# Chamber

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Job No.: rucky1 #25

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH11)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

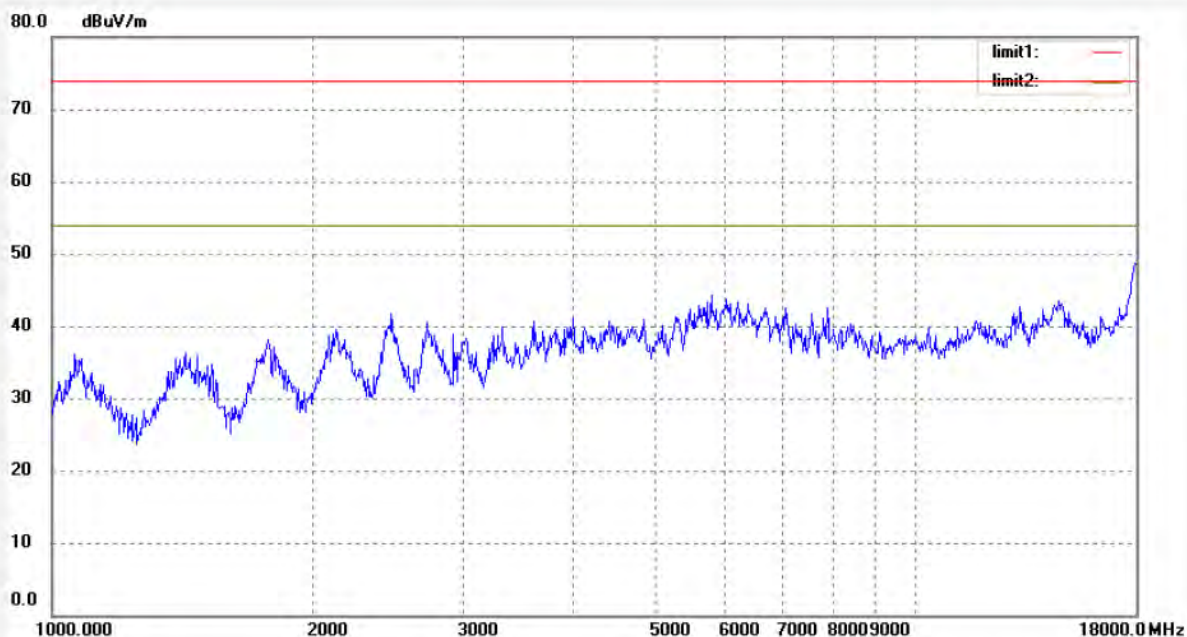
Date: 2013/03/10

Time: 4/26/42

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber

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Job No.: Ricky #894

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH11)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

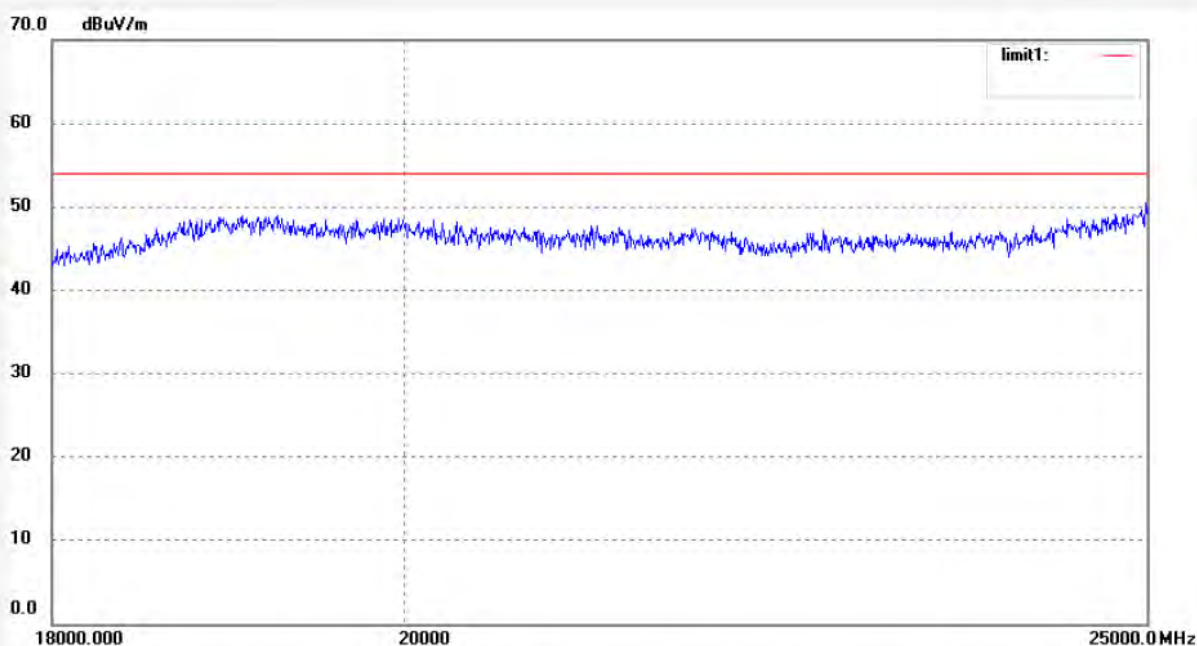
Date: 2013/03/10

Time: 11:56:28

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ricky #895

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH11)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

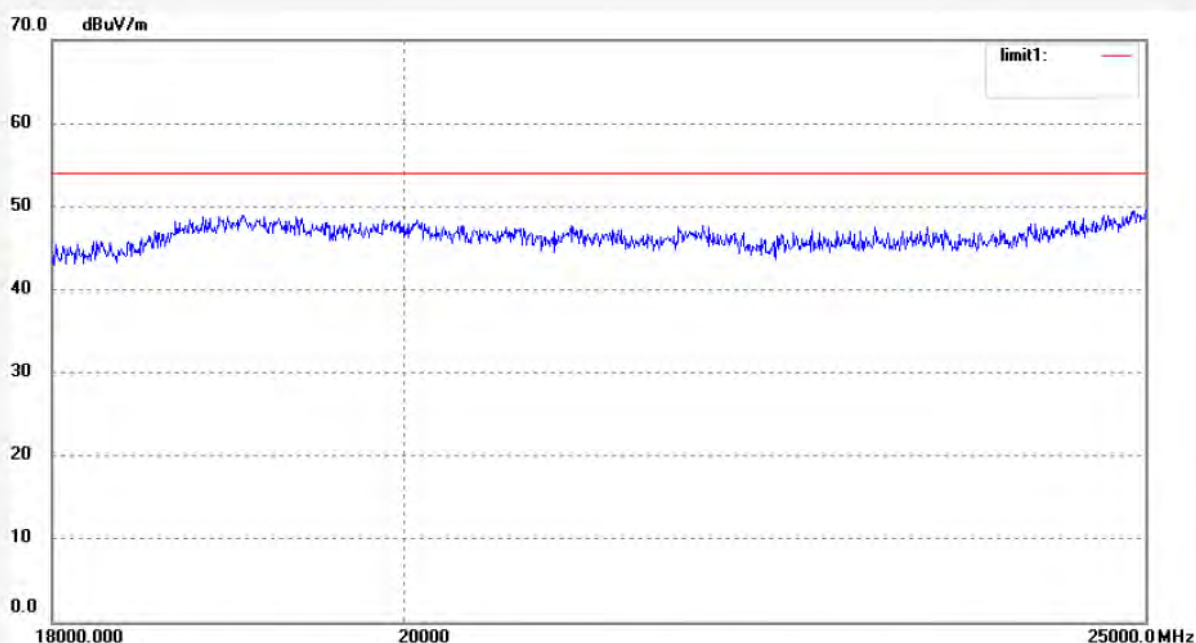
Date: 2013/03/10

Time: 12:00:00

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ricky #896

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH6)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

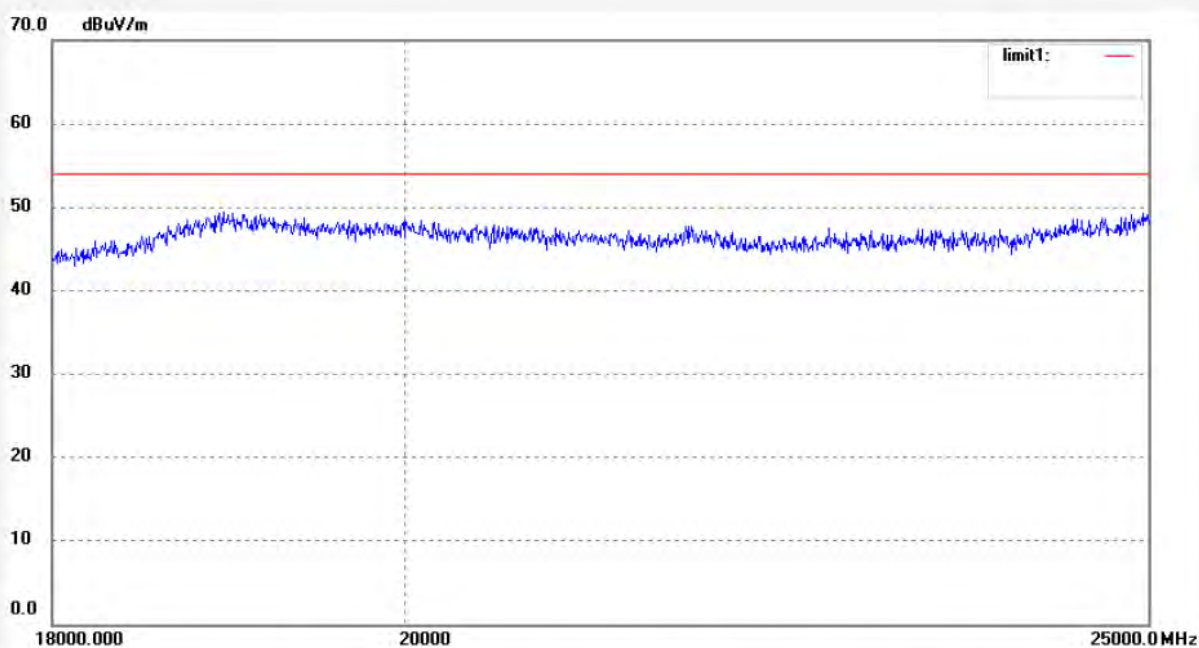
Date: 2013/03/10

Time: 12:02:52

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Ricky #897

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH6)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

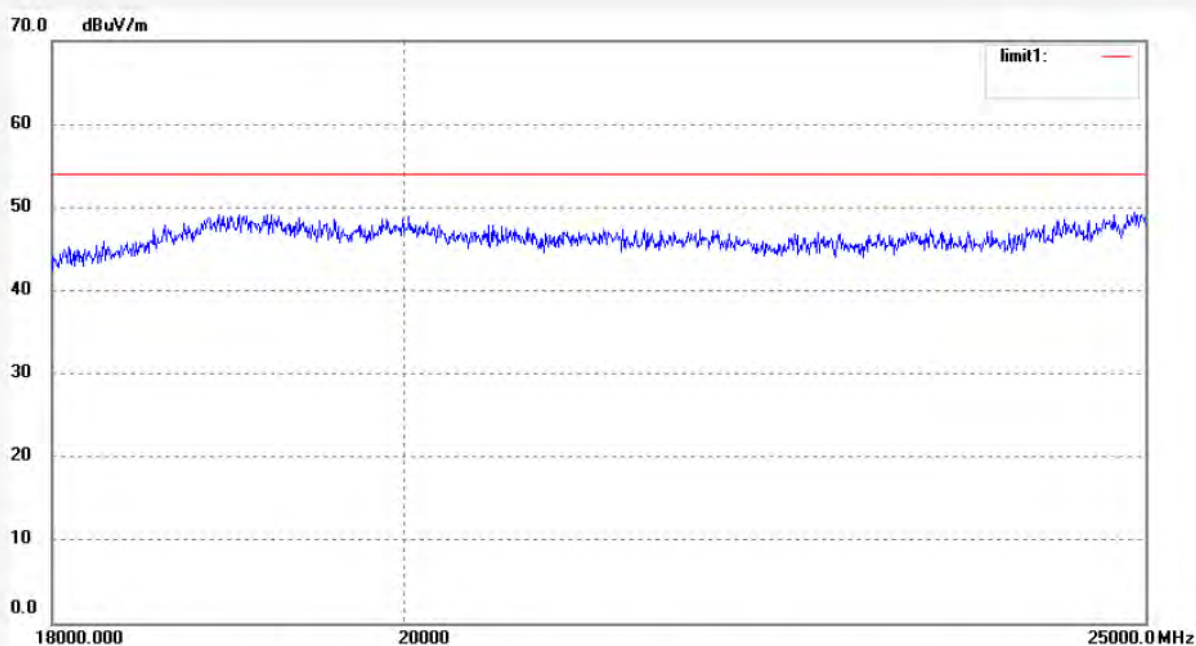
Date: 2013/03/10

Time: 12:06:41

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ricky #898

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH1)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

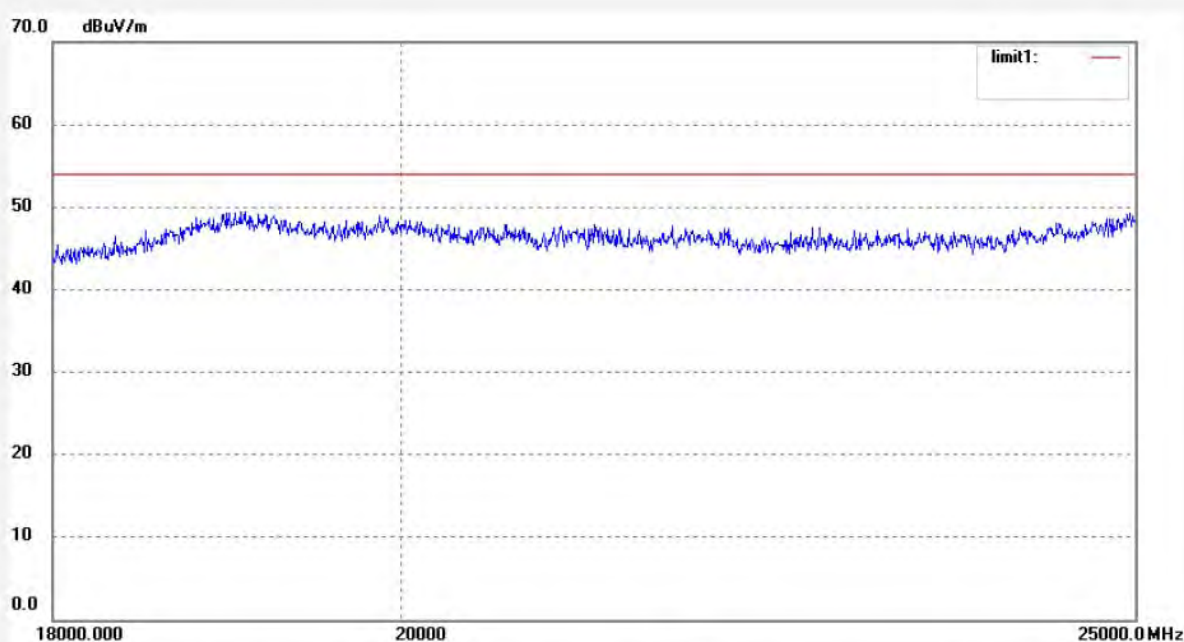
Date: 2013/03/10

Time: 12:10:28

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ricky #899

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11G (CH1)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

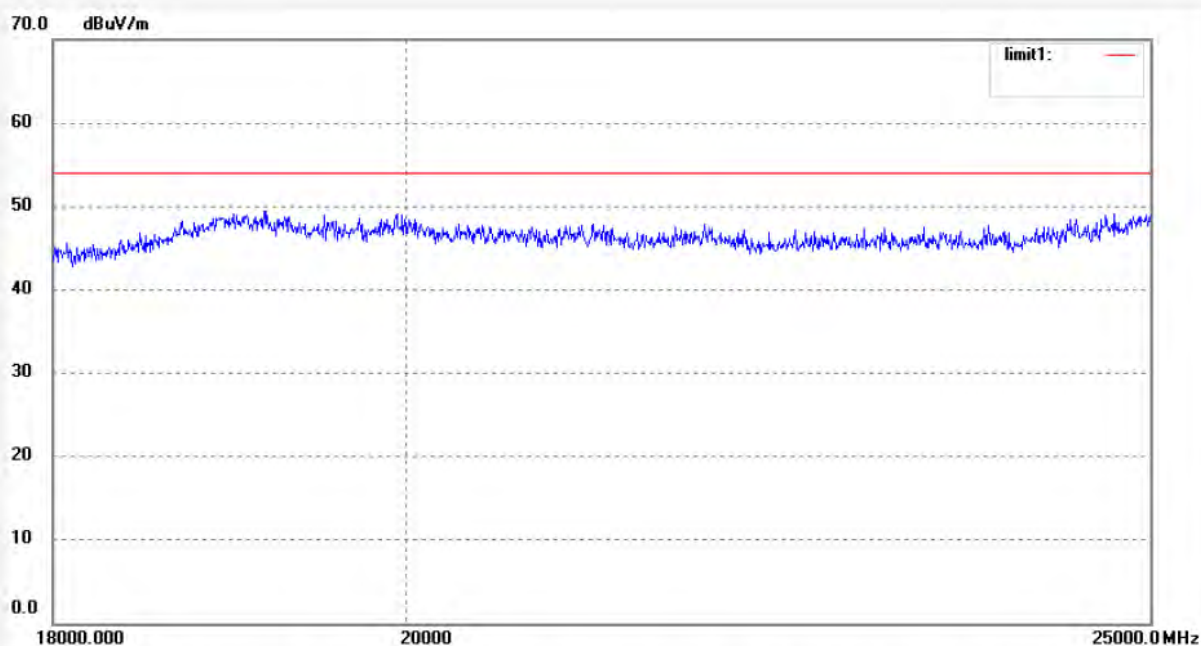
Date: 2013/03/10

Time: 12:12:22

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ricky #894

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH11)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

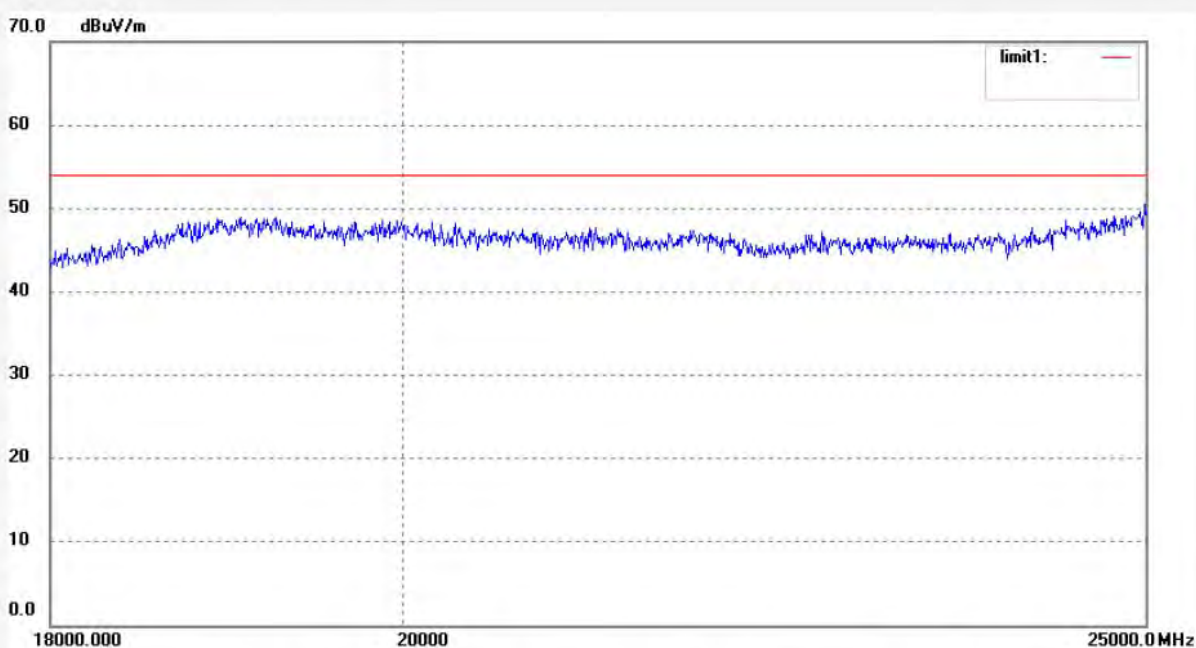
Date: 2013/03/10

Time: 12:15:58

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ricky #895

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH11)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

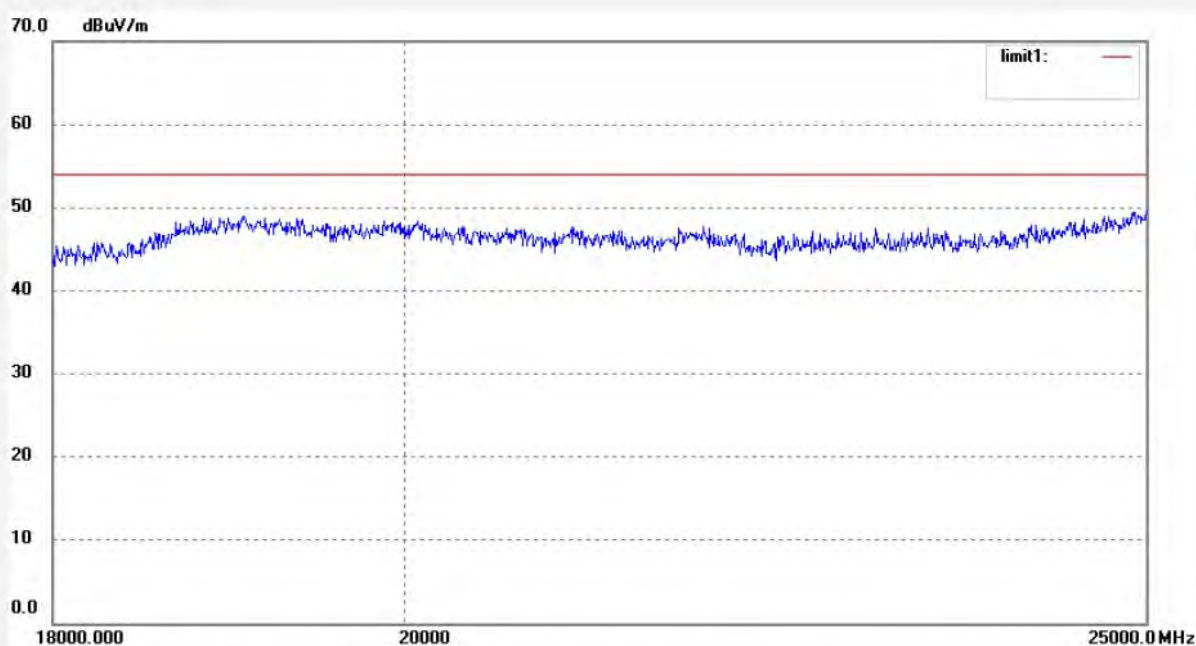
Date: 2013/03/10

Time: 12:18:21

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ricky #896

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH6)

Model: CR1288

Manufacturer: YongTong

Polarization: Horizontal

Power Source: DC 3.7V

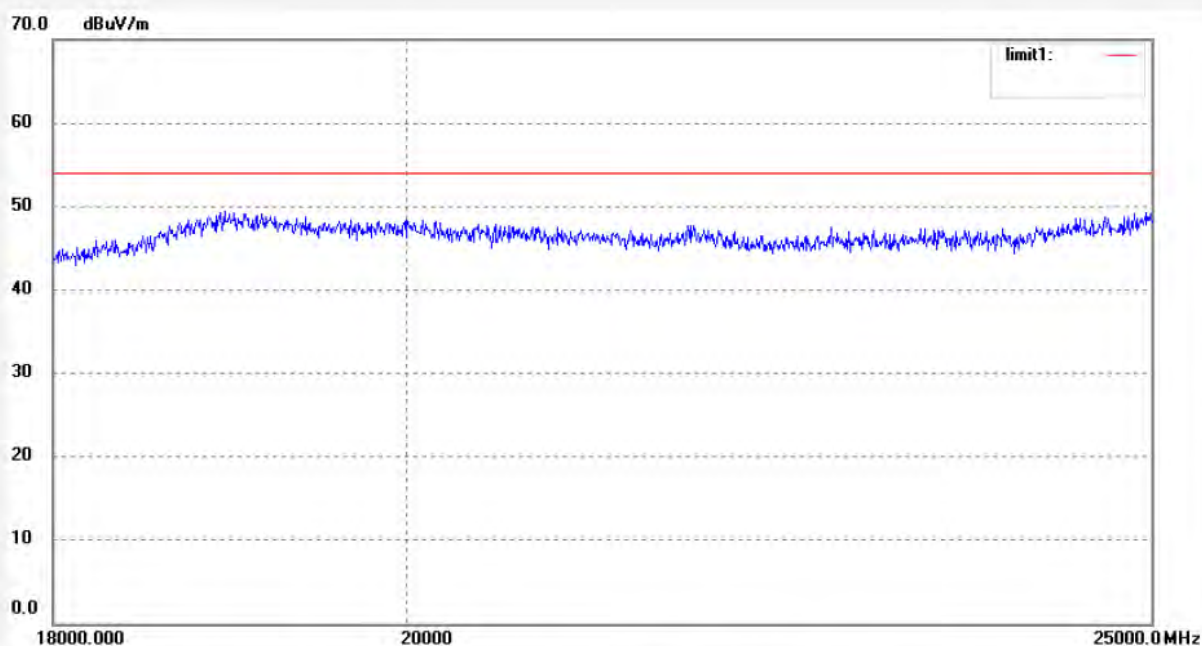
Date: 2013/03/10

Time: 12:25:11

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ricky #897

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH6)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

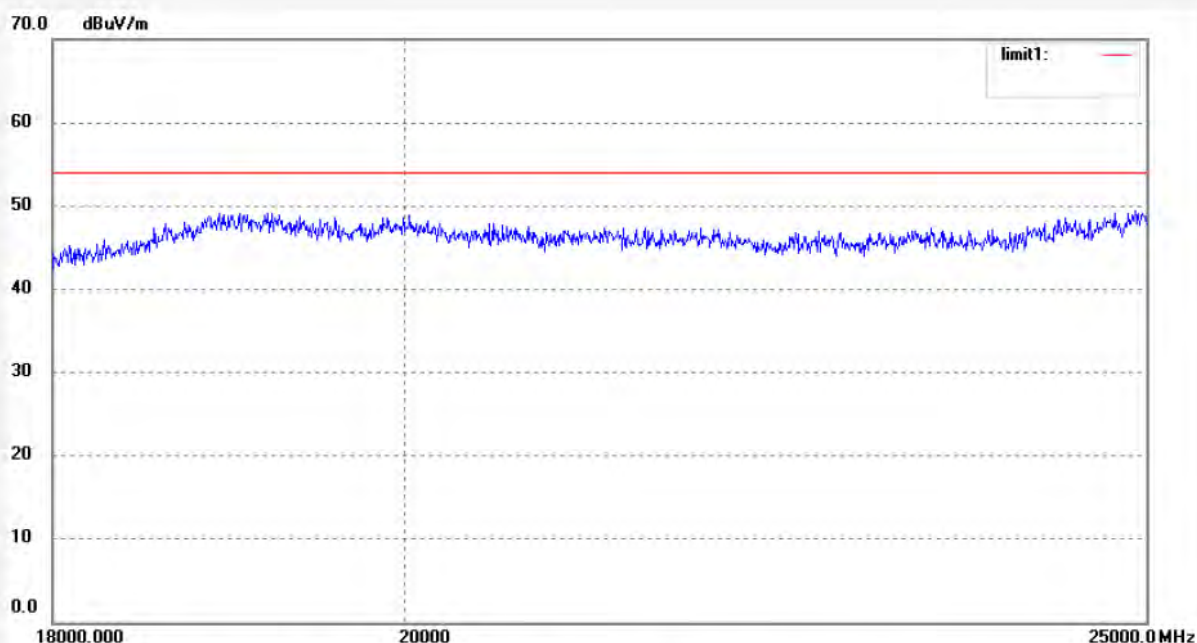
Date: 2013/03/10

Time: 12:29:23

Engineer Signature: Ricky

Distance: 3m

Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ricky #898

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: WIFI CONTROL SPY VEHICLE

Mode: TX802.11B (CH1)

Model: CR1288

Manufacturer: YongTong

Polarization: Vertical

Power Source: DC 3.7V

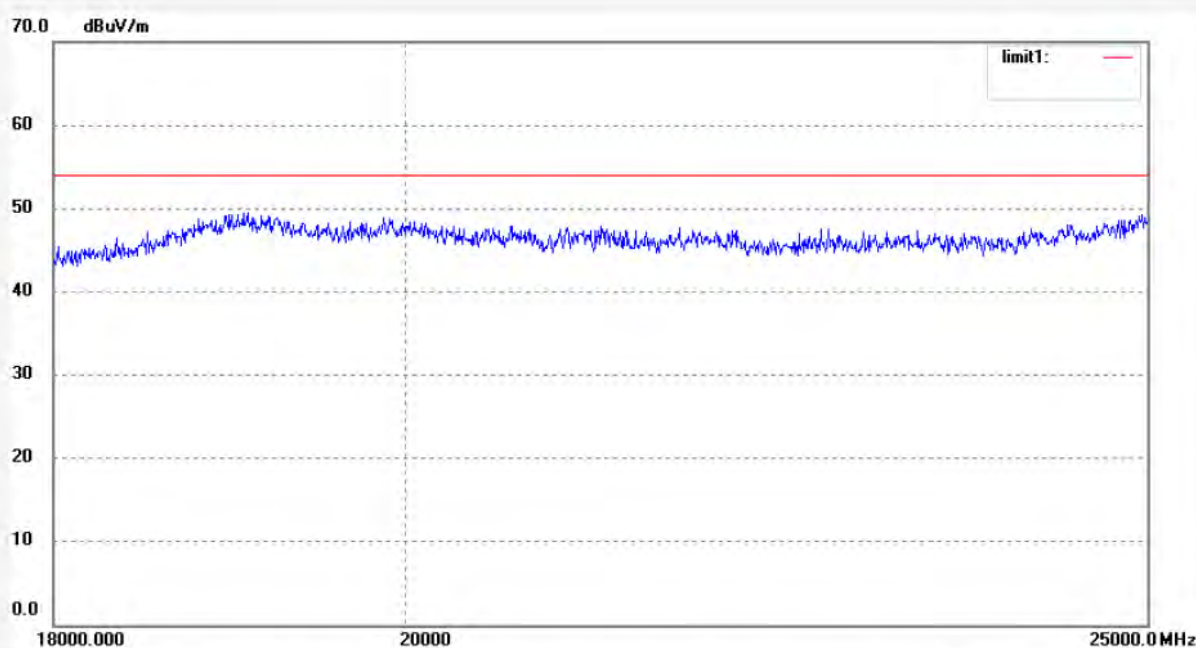
Date: 2013/03/10

Time: 12:33:28

Engineer Signature: Ricky

Distance: 3m

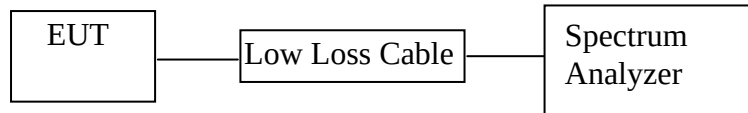
Note: Report No:ATE20130309



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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10.CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

10.1.Block Diagram of Test Setup



(EUT: WIFI CONTROL SPY VEHICLE)

10.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

10.3.EUT Configuration on Measurement

The following equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.3.1. WIFI CONTROL SPY VEHICLE (EUT)

Model Number	:	CR1288
Serial Number	:	N/A
Manufacturer	:	ShantouYongTong toys&crafts CO. LTD

10.4.Operating Condition of EUT

10.4.1.Setup the EUT and simulator as shown as Section 10.1.

10.4.2.Turn on the power of all equipment.

10.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

10.5.Test Procedure

10.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

10.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.(below 1GHz)

Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz. (above 1GHz)

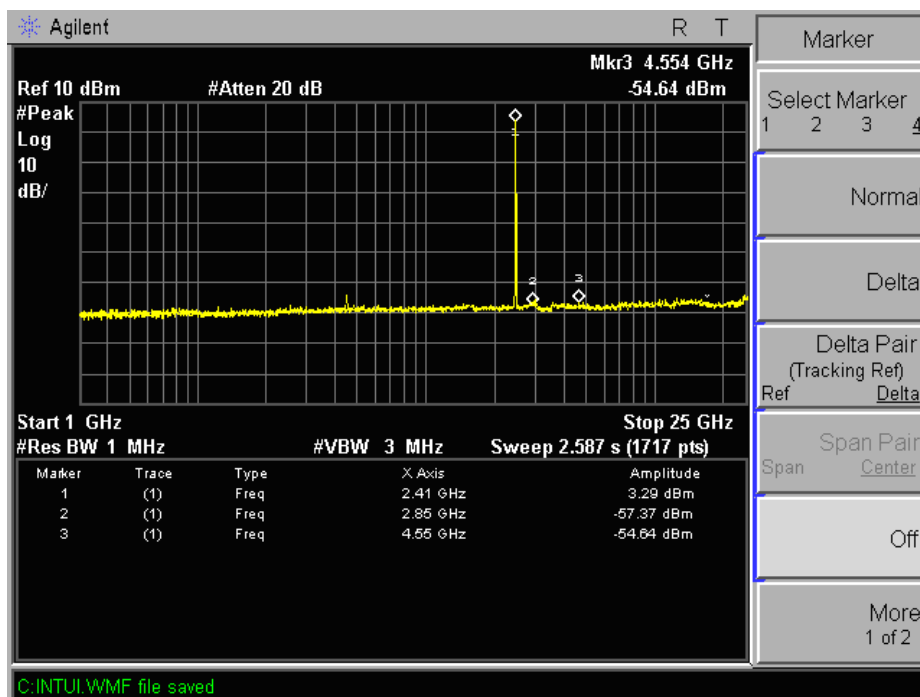
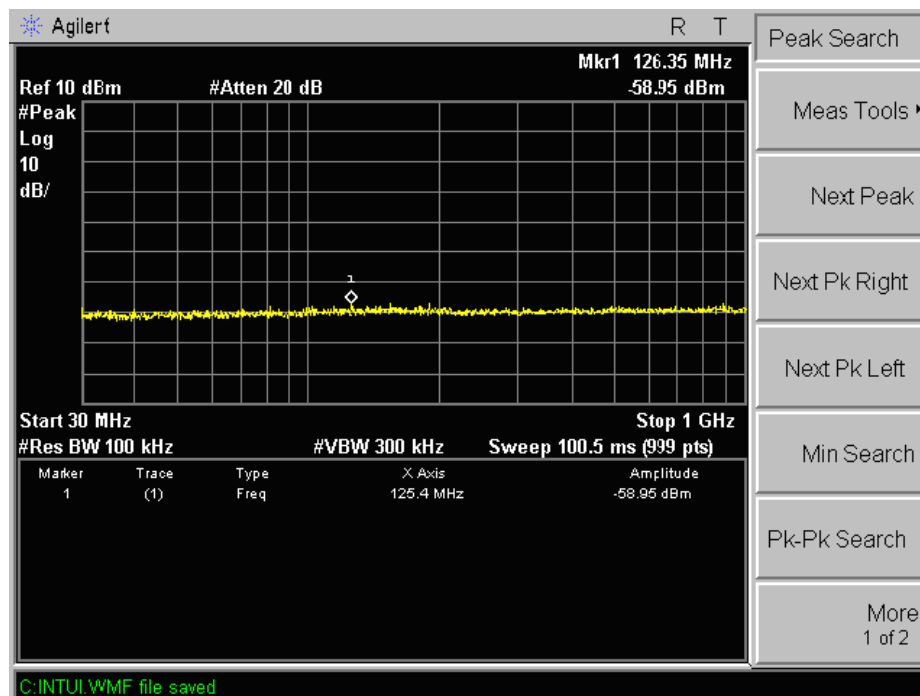
10.5.3.The Conducted Spurious Emission was measured and recorded.

10.6.Test Result

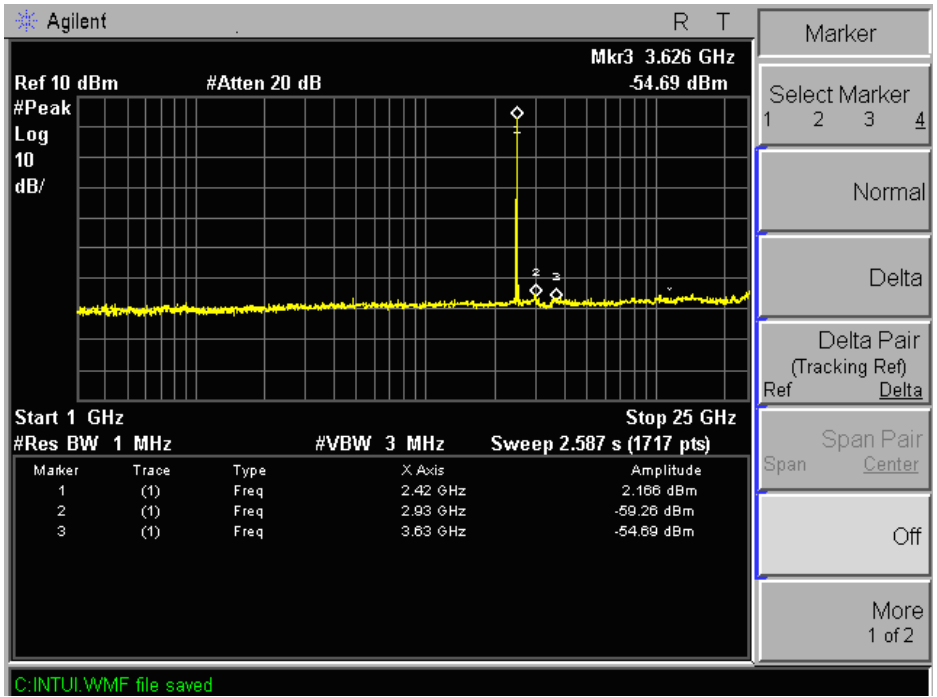
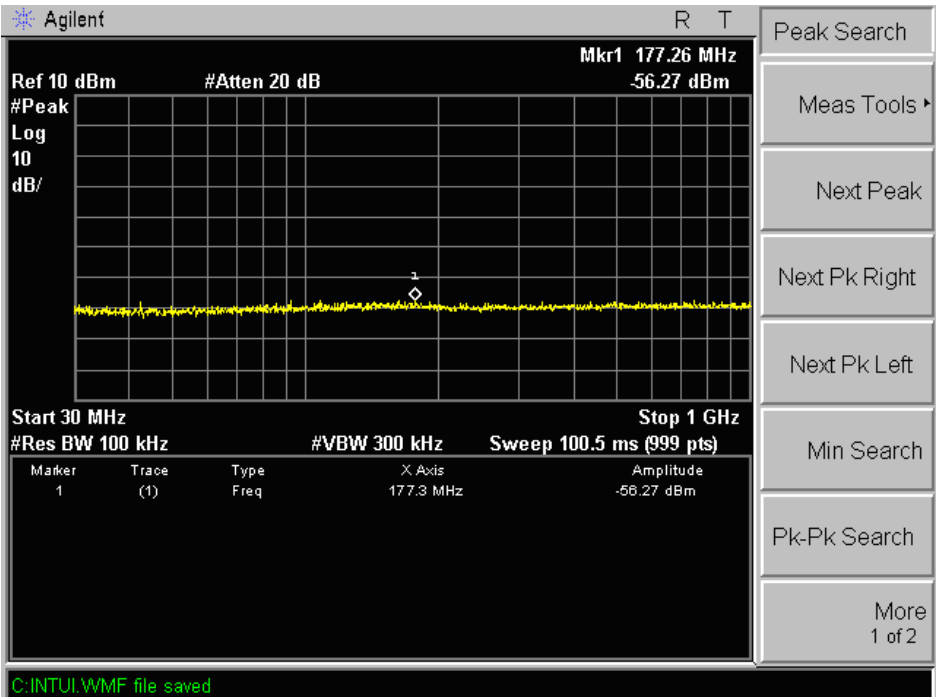
Pass.

The spectrum analyzer plots are attached as below.

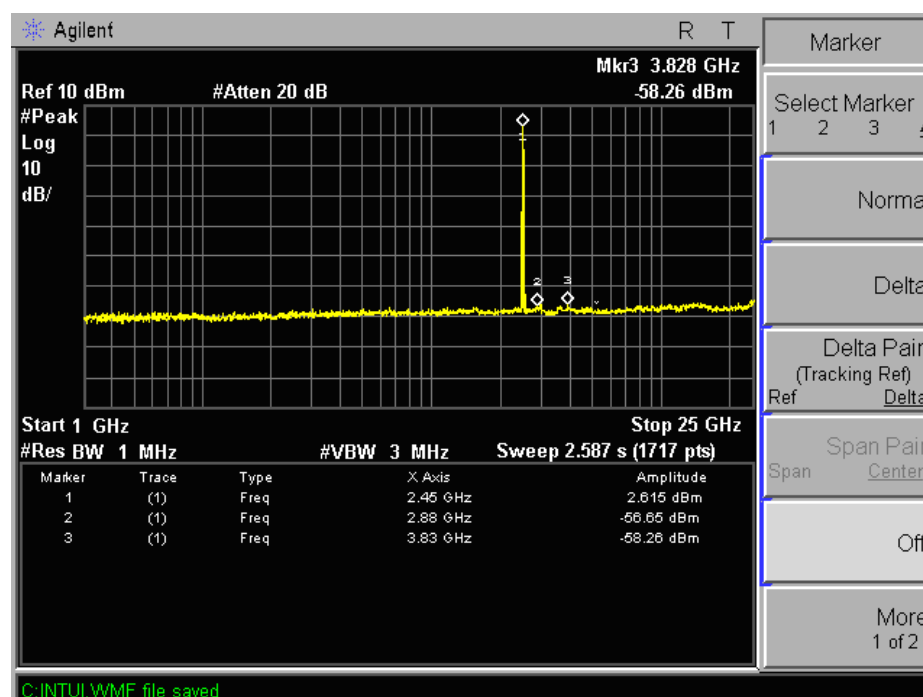
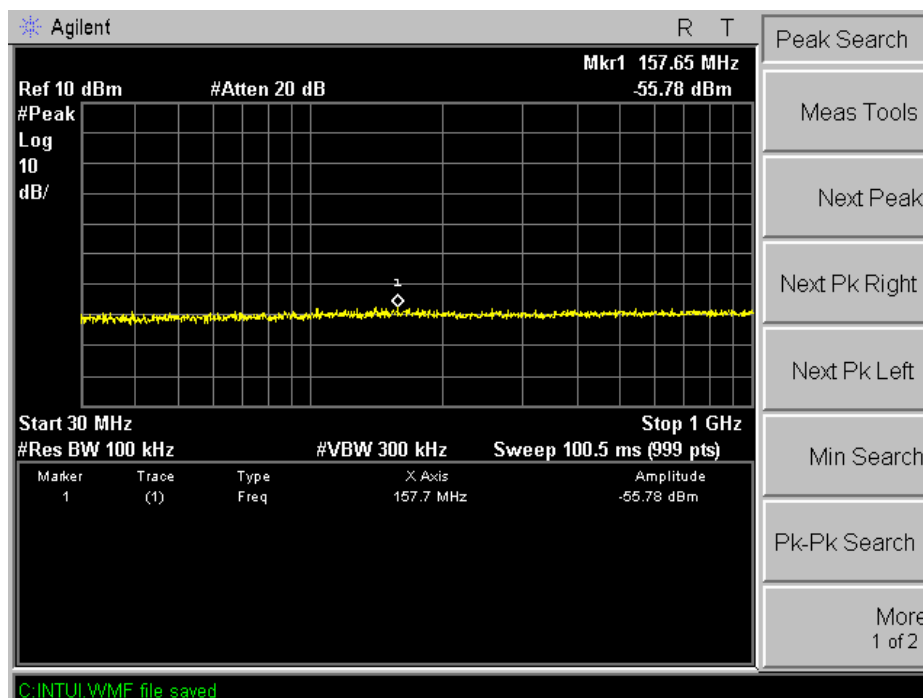
TX 802.11b Channel Low 2412MHz



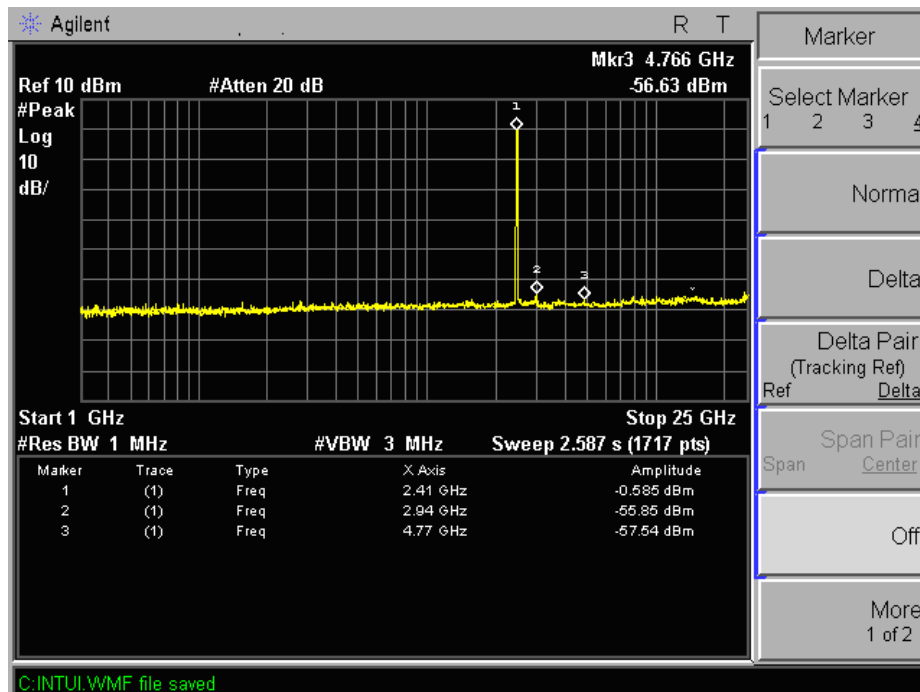
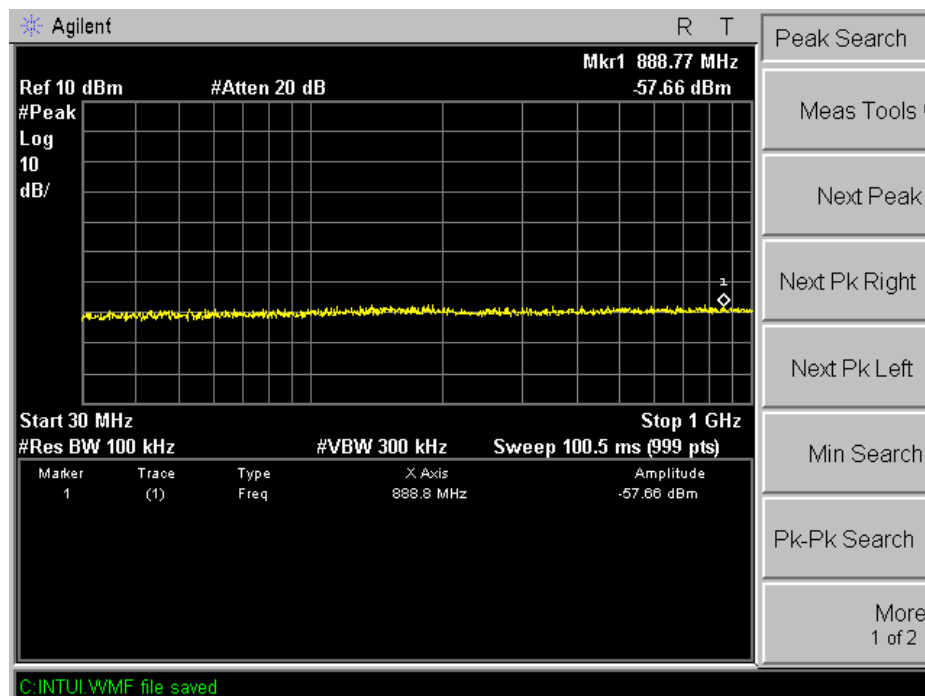
TX 802.11b Channel Middle 2437MHz



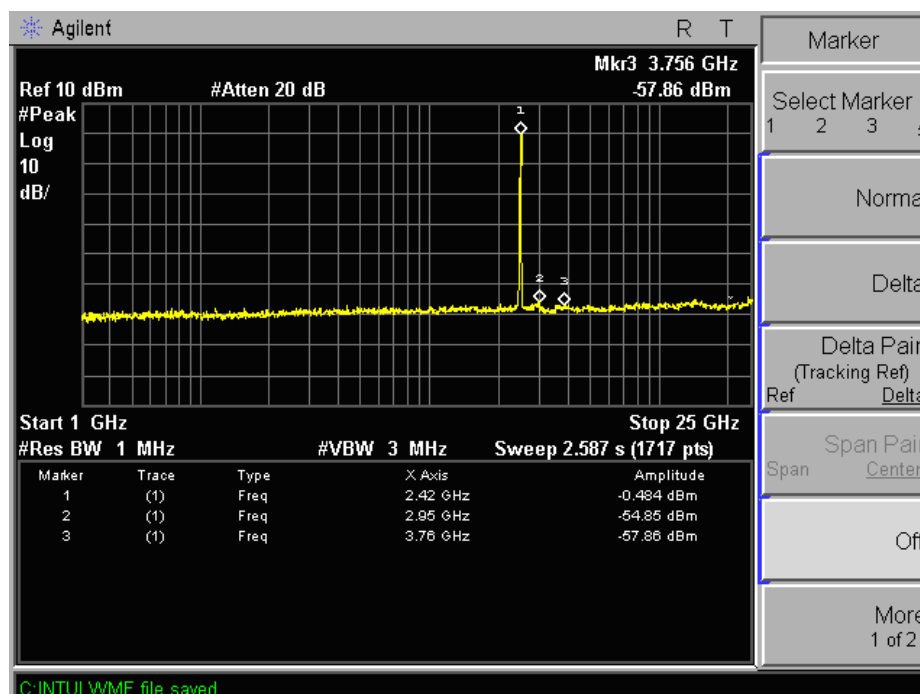
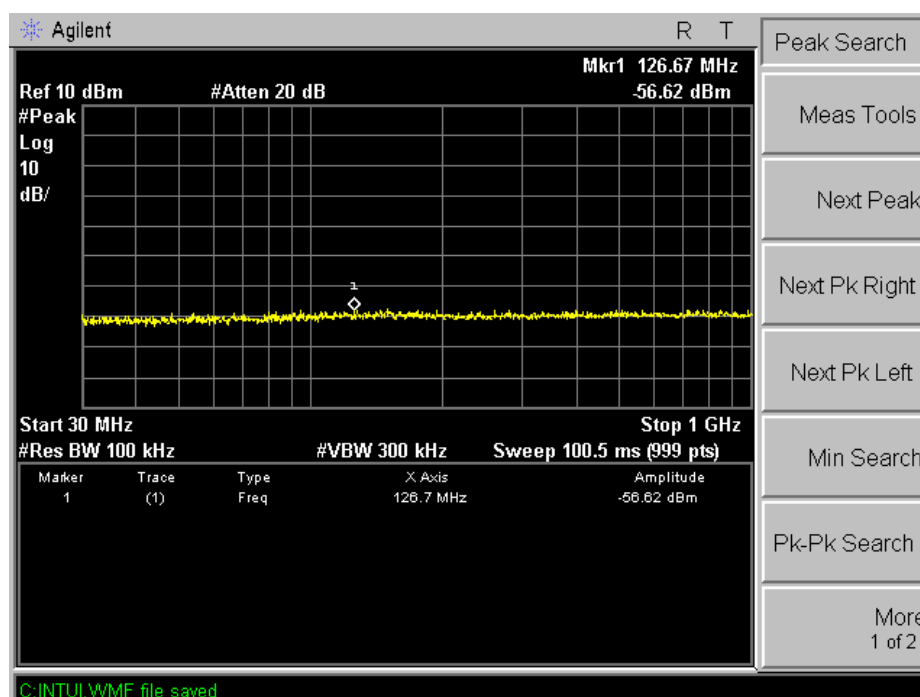
TX 802.11b Channel High 2462MHz



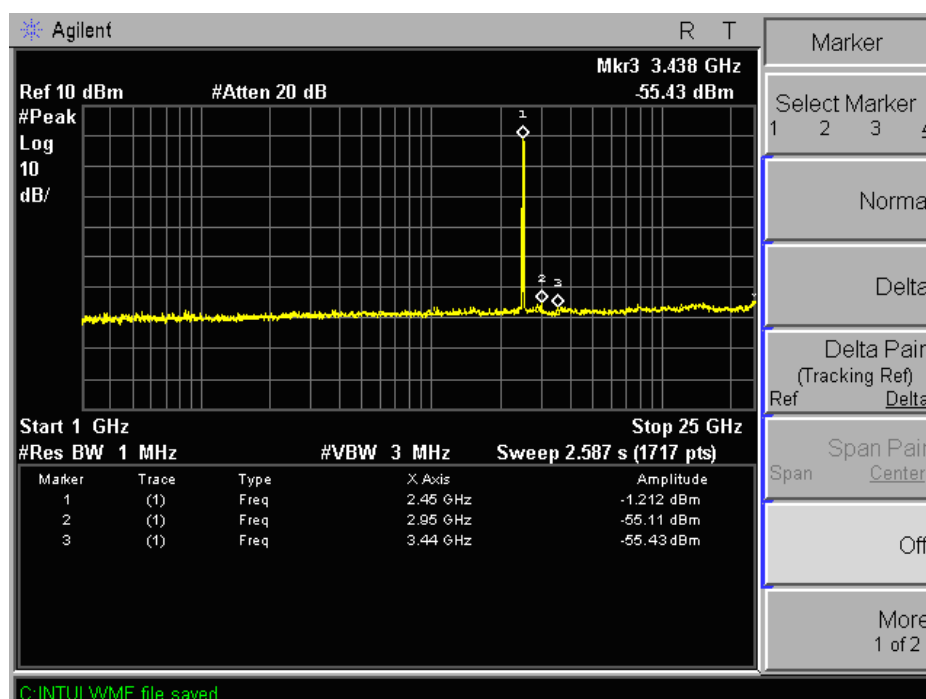
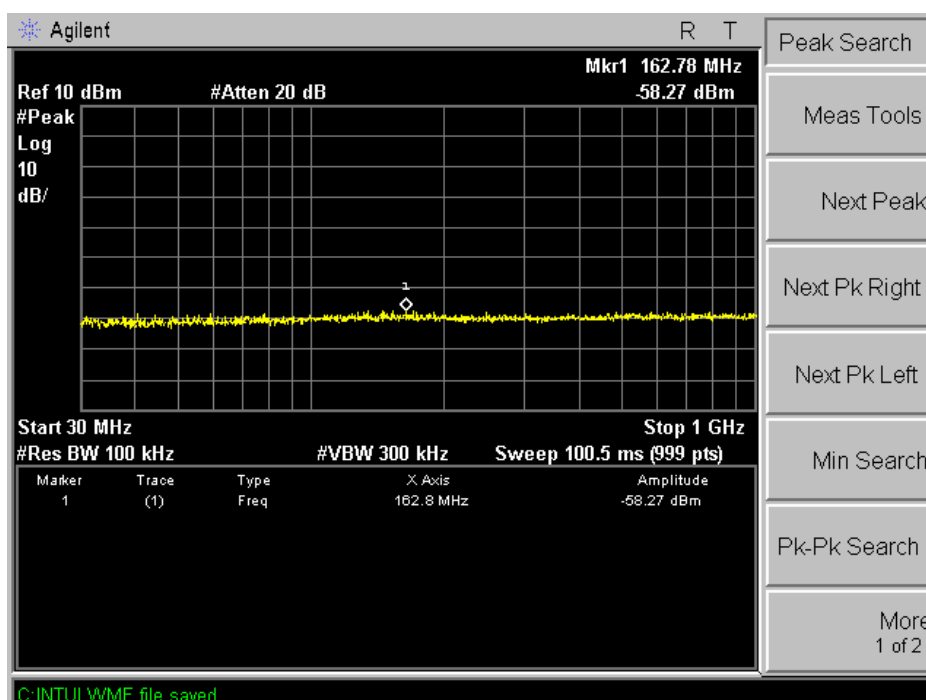
TX 802.11g Channel Low 2412MHz



TX 802.11g Channel Middle 2437MHz



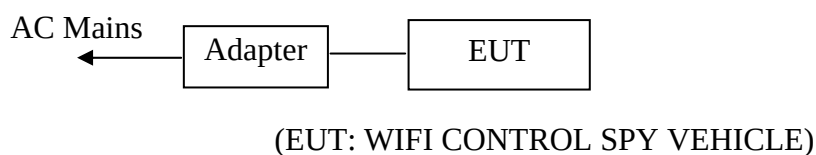
TX 802.11g Channel High 2462MHz



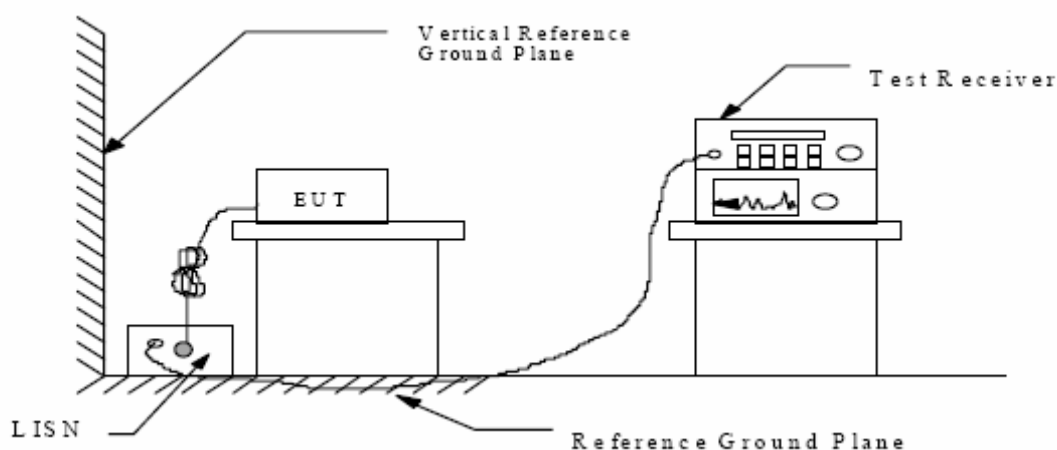
11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



11.1.2.Shielding Room Test Setup Diagram



(EUT: WIFI CONTROL SPY VEHICLE)

11.2.The Emission Limit

11.2.1.Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

11.3.Configuration of EUT on Measurement

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

11.3.1. WIFI CONTROL SPY VEHICLE (EUT)

Model Number : CR1288
Serial Number : N/A
Manufacturer : ShantouYongTong toys&crafts CO. LTD

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in TX (Charging) mode measure it.

11.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and 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 lines 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 ANSI C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

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

11.6.Power Line Conducted Emission Measurement Results

PASS.

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

Date of Test:	Mar 8, 2013	Temperature:	25°C
EUT:	WIFI CONTROL SPY VEHICLE	Humidity:	50%
Model No.:	CR1288	Power Supply:	AC 120V/60Hz
Test Mode:	Charging	Test Engineer:	Ricky

Frequency (MHz)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector	Line
0.192340	35.80	64	28.1	QP	Neutral
2.676633	27.90	56	28.1	QP	
29.575841	46.60	60	13.4	QP	
0.191191	31.90	54	22.1	AV	
2.676633	13.10	46	32.9	AV	
29.753563	31.80	50	18.2	AV	
0.192340	35.50	64	28.4	QP	Live
3.242265	30.20	56	25.8	QP	
30.00000	46.50	60	13.5	QP	
0.192917	21.90	54	22.0	AV	
3.654987	13.70	46	32.3	AV	
29.399182	32.20	50	17.8	AV	

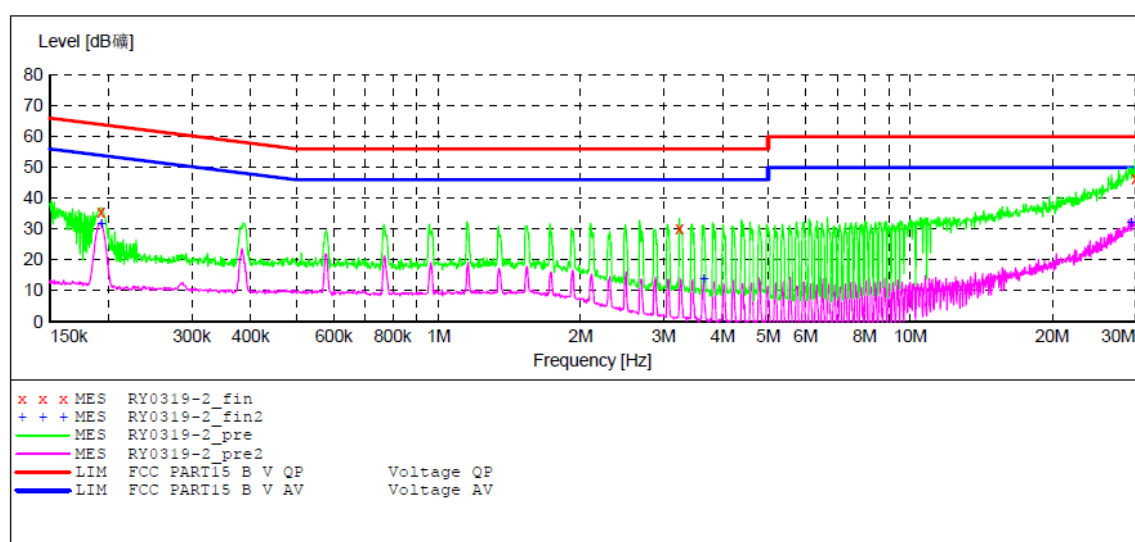
Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART15 B**

EUT: WIFI CONTROL SPY VEHICLE M/N:CR1288
 Manufacturer: YongTong
 Operating Condition: ON
 Test Site: 2#Shielding Room
 Operator: Ricky
 Test Specification: L 120V/60Hz
 Comment: Report No:ATE20130309
 Start of Test: 2013-3-19 / 9:49:33

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average

**MEASUREMENT RESULT: "RY0319-2_fin"**

2013-3-19 9:52

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.192340	35.50	10.8	64	28.4	QP	L1	GND
3.242265	30.20	12.3	56	25.8	QP	L1	GND
30.000000	46.50	12.0	60	13.5	QP	L1	GND

MEASUREMENT RESULT: "RY0319-2_fin2"

2013-3-19 9:52

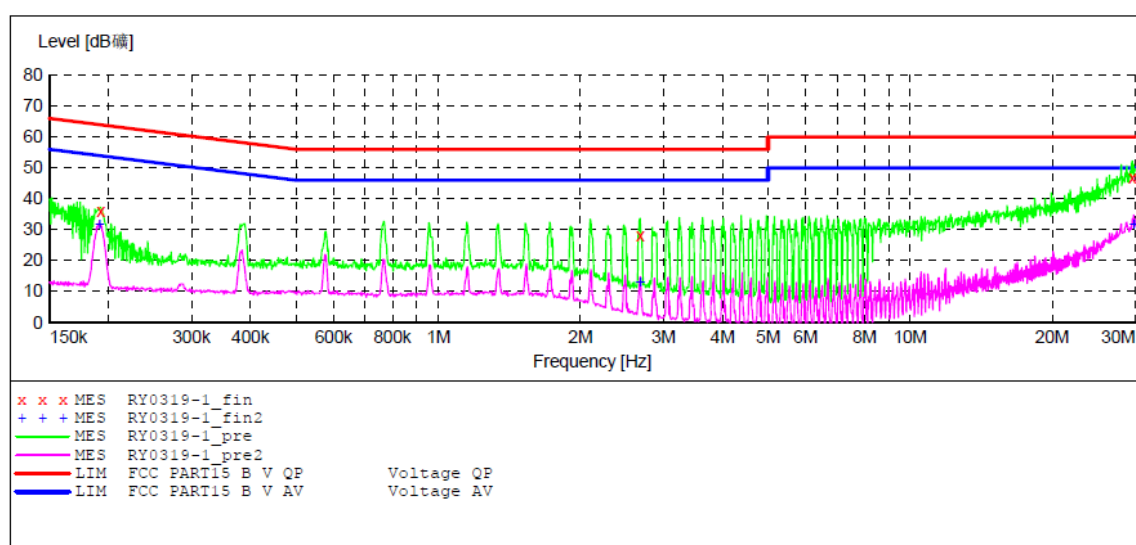
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.192917	31.90	10.8	54	22.0	AV	L1	GND
3.654987	13.70	12.3	46	32.3	AV	L1	GND
29.399182	32.20	12.0	50	17.8	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART15 B**

EUT: WIFI CONTROL SPY VEHICLE M/N:CR1288
 Manufacturer: YongTong
 Operating Condition: Operation
 Test Site: 2#Shielding Room
 Operator: Ricky
 Test Specification: N 120V/60Hz
 Comment: Report No:ATE20130309
 Start of Test: 2013-3-19 / 9:43:16

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average

**MEASUREMENT RESULT: "RY0319-1_fin"**

2013-3-19 9:45

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.192340	35.80	10.8	64	28.1	QP	N	GND
2.676633	27.90	12.3	56	28.1	QP	N	GND
29.575841	46.60	12.0	60	13.4	QP	N	GND

MEASUREMENT RESULT: "RY0319-1_fin2"

2013-3-19 9:45

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.191191	31.90	10.8	54	22.1	AV	N	GND
2.676633	13.10	12.3	46	32.9	AV	N	GND
29.753563	31.80	12.0	50	18.2	AV	N	GND

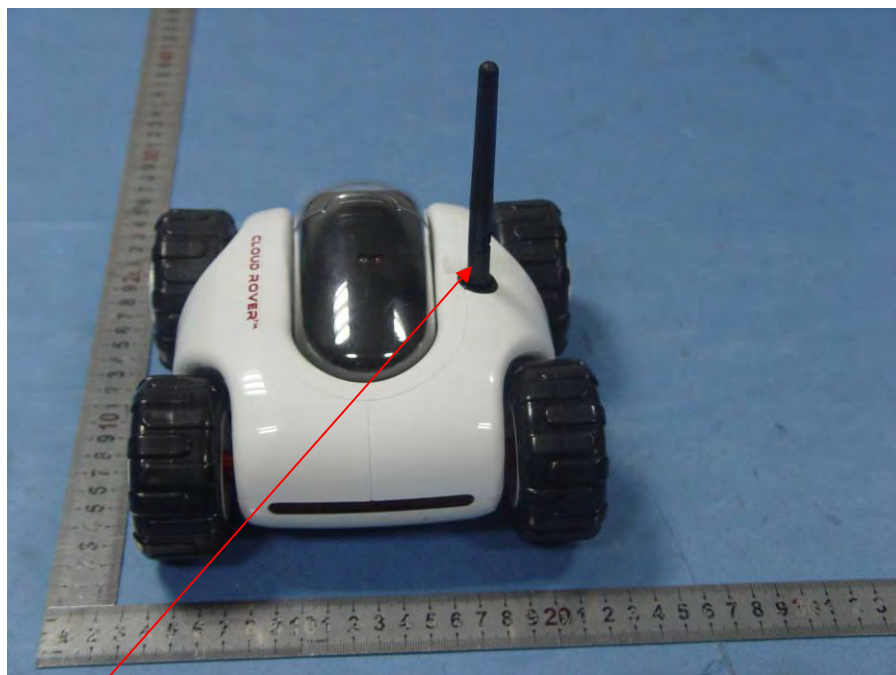
12.ANTENNA REQUIREMENT

12.1.The Requirement

According to Section 15.203, 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.

12.2.Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna