

FCC TEST REPORT

FCC ID : SJ8-CA360

Applicant : RDI Technology (Shenzhen) Co., Ltd.
Address : Building C1 Xingtang Industrial Park, East Baishixia,
Fuyong, Baoan, Shenzhen, PRC.

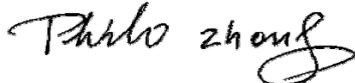
Equipment Under Test (EUT) :

Product description : Wireless Camera
Model No. : CA360 (45245)
Modulation : FSK

Standards : FCC 15 Paragraph 15.249

Date of Test : June 17, 2010

Project Engineer : Olic.huang

Reviewed By : 

Prepared By:

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3 Test Summary

Test Items	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 10GHz)	FCC PART 15: 2007	ANSI C63.4: 2003	N/A	PASS
Conducted Emission (150KHz to 30MHz)	FCC PART 15: 2007	ANSI C63.4: 2003	Class B	PASS
Band-edge	FCC PART 15: 2007	ANSI C63.4: 2003	N/A	Comply
20dB-Bandwidth	FCC PART 15: 2007	ANSI C63.4: 2003	N/A	Comply

4 General Information

4.1 Client Information

Applicant: RDI Technology (Shenzhen) Co., Ltd.
Address of Applicant: Building C1 Xingtang Industrial Park, East Baishixia,
Fuyong, Baoan, Shenzhen, PRC.

Manufacturer: RDI Technology (Shenzhen) Co., Ltd.
Address: Building C1 Xingtang Industrial Park, East Baishixia,
Fuyong, Baoan, Shenzhen, PRC.

4.2 General Description of E.U.T.

Product description: Wireless Camera
Model No.: CA360 (45245)
Operating frequency: 902MHz to 928MHz
Antenna Gain: 0 dBi
Antenna Type: Dipole Antenna.

4.3 Details of E.U.T.

Power Supply: Adapter: Input AC 100-240V, 50/60Hz, 0.2A
Output DC 9V, 0.6A

4.4 Description of Support Units

The EUT is a only support unit during test.

4.5 Standards Applicable for Testing

The customer requested FCC tests for a Wireless Camera. The standards used were FCC 15 Paragraph 15.249, Paragraph 15.207, Paragraph 15.209, Paragraph 15.31, Paragraph 15.33, Paragraph 15.35 and Part 2

4.6 Test Facility

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

- **FCC – Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. 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 880581, June 24, 2008.

- **IC – Registration No.: 7760A**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration IC7760A, July 24, 2008.

4.7 Test Location

All Emissions tests were performed at:-

1/F, Fukangtai Building, West Baima Rd., Songgang Street, Bao'an District, Shenzhen 518105, Guangdong, China.

5 Equipment Used during Test

Equipment Name	Manufacturer Model	Equipment No	Internal No	Specification	Cal. Date	Due Date	Cert. No	Uncertainty
EMC Analyzer	Agilent/ E7405A	MY451149 43	W2008001	9k-26.5GHz	Aug-09	Aug-10	Wws200 81596	±1dB
Trilog Broadband Antenne 30-3000 MHz	SCHWARZB ECK MESS-ELEK TROM/ VULB9163	336	W2008002	30-3000 MHz	Aug-09	Aug-10		±1dB
Broad-band Horn Antenna	SCHWARZB ECK MESS-ELEK TROM/ VULB9163	667	W2008003		Aug-09	Aug-10		f<10 GHz: ±1dB 10GHz<f< 18 GHz: ±1.5dB
Broadband Preamplifier	SCHWARZB ECK MESS-ELEK TROM/ BBV 9718	9718-148	W2008004		Aug-09	Aug-10		±1.2dB
10m Coaxial Cable with N-male Connectors usable up to 25GHz,	SCHWARZB ECK MESS-ELEK TROM/ AK 9515 H	-	-	-	Aug-09	Aug-10		-
10m 50 Ohm Coaxial Cable with N-plug, individual length, usable up to 3(5)GHz, Connector	SCHWARZB ECK MESS-ELEK TROM/ AK 9513				Aug-09	Aug-10		
Positioning Controller	C&C LAB/ CC-C-IF				N/A	N/A		
Color Monitor	SUNSP0/ SP-14C				N/A	N/A		

6 Conducted Emission Test

Product Name:	Wireless Camera
Test Requirement:	FCC Part15 Paragraph 15.207
Test Method:	Based on FCC Part15 Paragraph 15.207
Test Date:	June 17,2010
Frequency Range:	150 kHz to 30MHz
Class:	Class B
Detector:	Peak for pre-scan (9 kHz Resolution Bandwidth) Quasi-Peak & Average if maximised peak within 6dB of Average Limit

6.1 Test Equipment

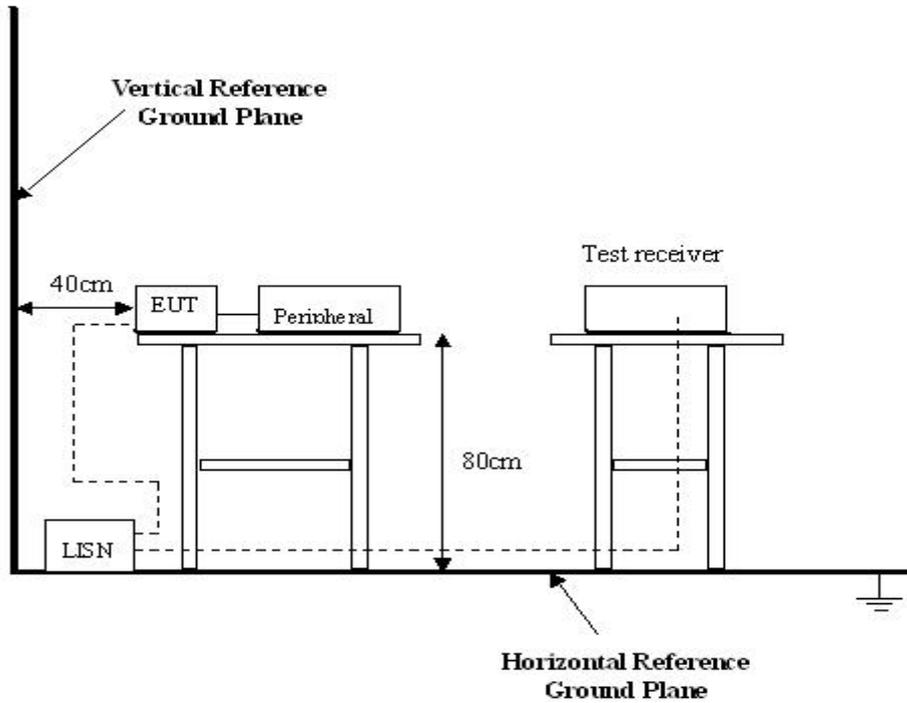
Please refer to Section 5 this report.

6.2 Test Procedure

1. The EUT was tested according to ANSI C63.4: 2003. The frequency spectrum from 150kHz to 30MHz was investigated.
2. The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.3 Conducted Test Setup

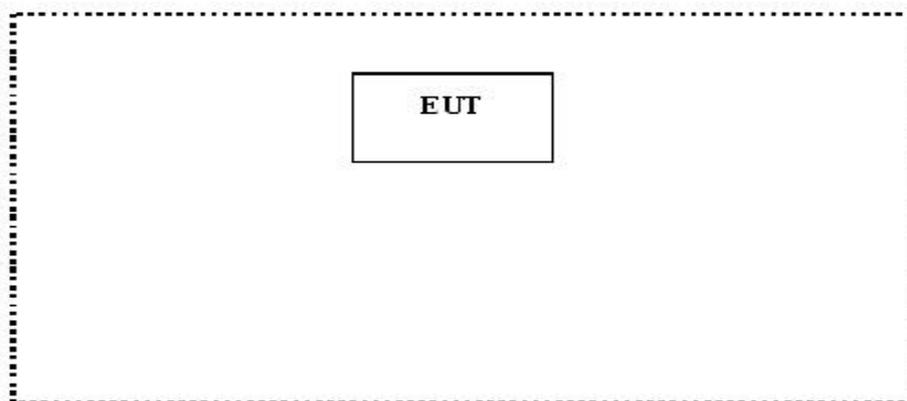
The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15 Paragraph 15.207 limits.



6.4 EUT Operating Condition

Operating condition is according to ANSI C63.4: 2003.

- A. Setup the EUT and simulators as shown on follow.
- B. Enable RF signal and confirm EUT active.
- C. Modulate output capacity of EUT up to specification.



6.5 Conducted Emission Limits

66-56 dB μ V between 0.15MHz & 0.5MHz

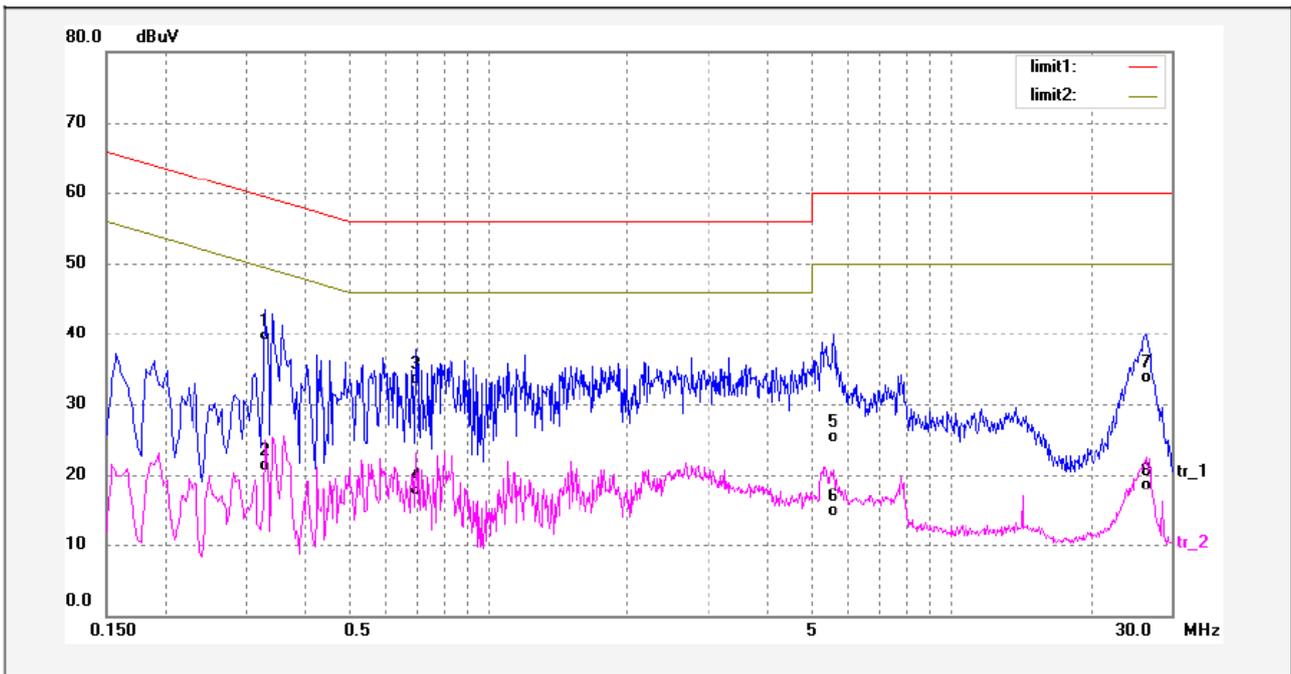
56 dB μ V between 0.5MHz & 5MHz

60 dB μ V between 5MHz & 30MHz

Note: In the above limits, the tighter limit applies at the band edges.

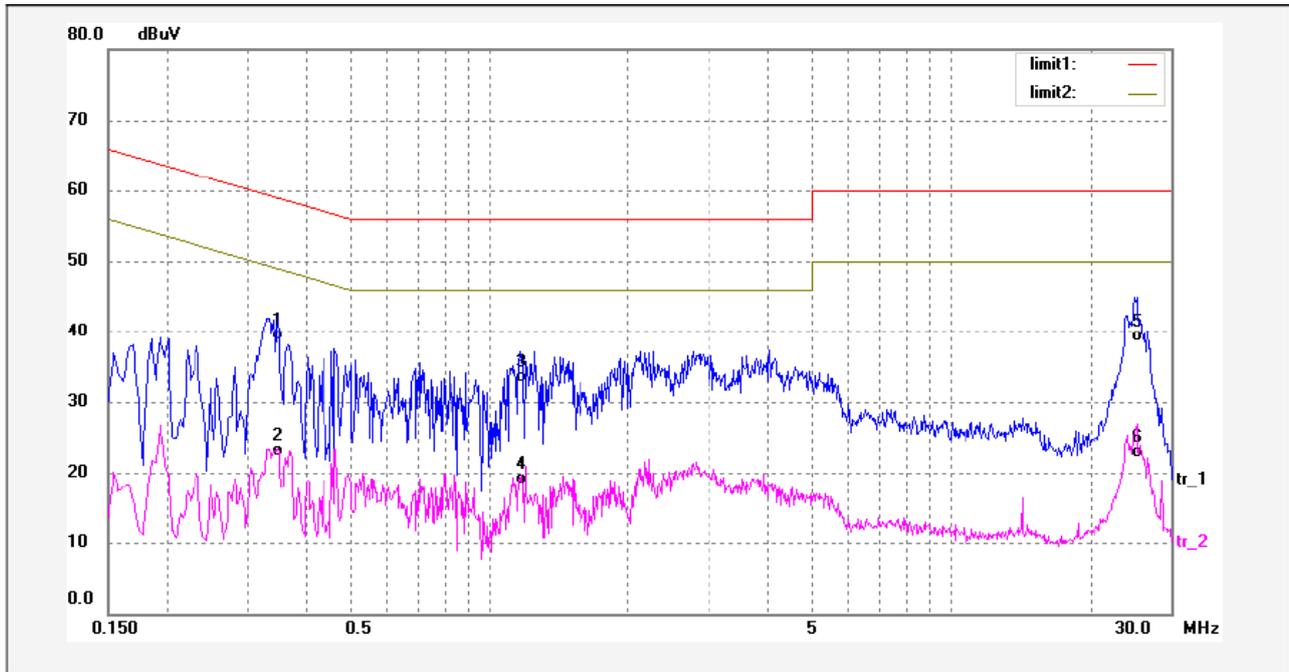
6.6 Conducted Emission Test Result

Live Line



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.3300	28.50	10.35	38.85	59.45	-20.60	QP	
2	0.3300	10.14	10.35	20.49	49.45	-28.96	AVG	
3	0.6980	22.42	10.36	32.78	56.00	-23.22	QP	
4	0.6980	6.52	10.36	16.88	46.00	-29.12	AVG	
5	5.5900	14.12	10.41	24.53	60.00	-35.47	QP	
6	5.5900	3.56	10.41	13.97	50.00	-36.03	AVG	
7	26.5380	22.56	10.44	33.00	60.00	-27.00	QP	
8	26.5380	7.28	10.44	17.72	50.00	-32.28	AVG	

Neutral Line



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.3500	28.45	10.35	38.80	58.96	-20.16	QP	
2	0.3500	11.92	10.35	22.27	48.96	-26.69	AVG	
3	1.1700	22.30	10.36	32.66	56.00	-23.34	QP	
4	1.1700	7.90	10.36	18.26	46.00	-27.74	AVG	
5	25.1020	28.16	10.44	38.60	60.00	-21.40	QP	
6	25.1020	11.63	10.44	22.07	50.00	-27.93	AVG	

6.7 Conducted Emission Test Setup View

Test Setup Front View



Test Setup Back View



7 Radiation Emission Test

Product Name:	Wireless Camera
Test Requirement:	FCC Part15 Paragraph 15.249
Test Method:	Based on FCC Part15 Paragraph 15.31 and Paragraph 15.33
Test Date:	June 17,2010
Frequency Range:	30MHz to 10GHz
Measurement Distance:	3m
Detector:	Peak for pre-scan (120kHz resolution bandwidth) Quasi-Peak if maximised peak within 6dB of limit

7.1 Test Equipment

Please refer to Section 5 this report.

7.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase centre variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

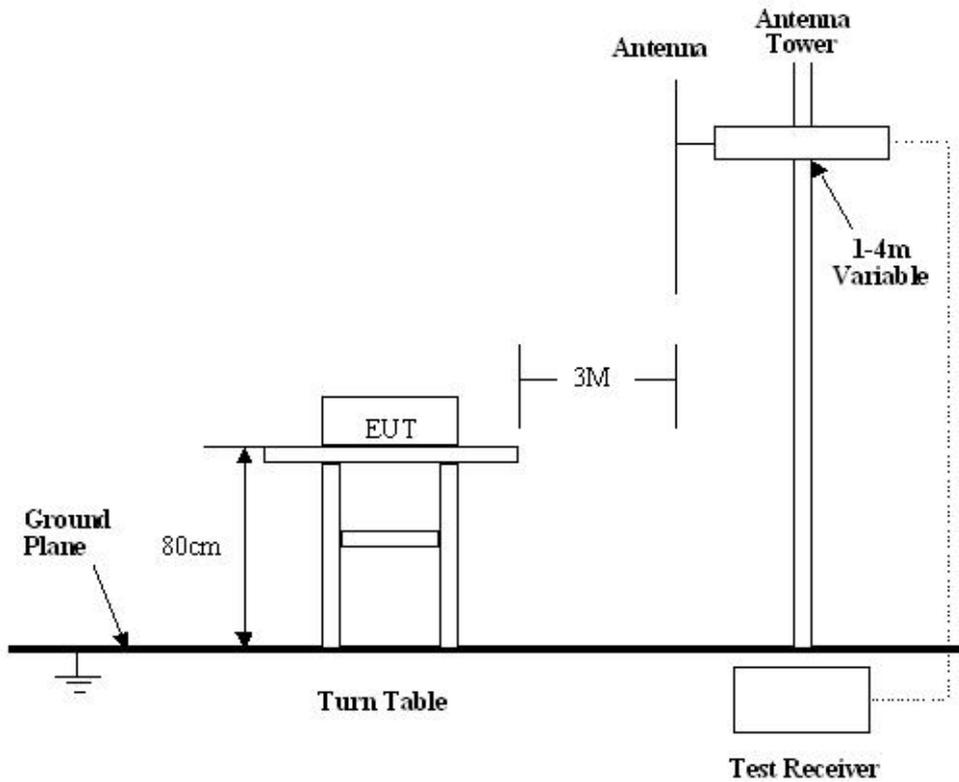
Based on ANSI C63.4: 2003, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at EMC Lab is +/-5.03 dB.

7.3 Test Procedure

1. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.
2. All data was recorded in the peak detection mode.
3. The EUT was under normal mode during the final qualification test and the configuration was used to represent the worst case results.

7.4 Radiated Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003, The specification used in this report was the FCC Part15 Paragraph 15.249 and Paragraph 15.209 limits.



7.5 Spectrum Analyzer Setup

According to FCC Part15 Paragraph 15.249 Rules, the system was tested to 10000 MHz.

Below 1GHz

- Start Frequency..... 30 MHz
- Stop Frequency 1000 MHz
- Sweep Speed Auto
- IF Bandwidth..... 120 KHz
- Video Bandwidth..... 100KHz
- Quasi-Peak Adapter Bandwidth 120 KHz
- Quasi-Peak Adapter Mode Normal
- Resolution Bandwidth 100KHz

Above 1GHz

Start Frequency.....	1000 MHz
Stop Frequency.....	10000 MHz
Sweep Speed	Auto
IF Bandwidth.....	1 MHz
Video Bandwidth.....	1 MHz
Resolution Bandwidth	1MHz

7.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dBμV means the emission is 7dBμV below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Class B Limit}$$

7.7 Summary of Test Results

According to the data in section 7.10, the EUT complied with the FCC Part15 Paragraph 15.249 standards.

7.8 EUT Operating Condition

Same as section 6.4 of this report.

7.9 Radiated Emissions Limit

A. FCC Part 15 subpart C Paragraph 15.249 Limit

Fundamental Frequency	Field Strength of Fundamental		Field Strength of Harmonics	
	mV/m	dBuV/m	uV/m	dBuV/m
902-928MHz	50	94	500	54
2400-2483.5 MHz	50	94	500	54
5725-5875 MHz	50	94	500	54
24.0-24.25GHz	250	108	2500	68

- Note:**
- (1) RF Voltage(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 instrumentaion employing an average detector.Measurement using instrumentation with a peak detector function,corresponding to 20dB above the maximum permitted average limit.
 - (4) Above 1GHz,do a Peak and average measurements for all emissions,Limit for peak is 74dBuV/m,According to Part15.35(b) and average is 54dBuV/m.

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

Frequency(MHZ)	Distance(m)	Field strength(dBuV/m)
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.

7.10 Radiated Emissions Test Result

Formula of conversion factors: the field strength at 3m was established by adding
 The meter reading of the spectrum analyzer (which is set to read in units of dBuV)
 To the antenna correction factor supplied by the antenna manufacturer. The antenna
 Correction factors are stated in terms of dB. The gain of the pressletor was accounted
 For in the spectrum analyser meter reading.

Example:

$$\begin{aligned} \text{Freq(MHz)} \quad \text{Meter Reading} + \text{ACF} &= \text{FS} \\ 33 \quad \quad \quad 20\text{dBuV} + 10.36\text{dB} &= 30.36\text{dBuV/m @3m} \end{aligned}$$

Radiated Emission Test Data

Test Voltage: AC 120V
 Test Mode: TX On
 Temperature: 25.5 °C
 Humidity: 51%RH
 Test Result: PASS

Remarks: 30-1000MHz radiation test no significant emissions above the equipment noise floor were detected (except the Fundamental)

For the Fundamental and Spurious Emission radiated emission data:

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	FCC Part 15C Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
Lower Frequency							
910	AV	Vertical	78.65	94.00	15.35	1.0	100
1820	AV	Vertical	49.22	54.00	4.78	1.1	120
2730	AV	Vertical	48.25	54.00	5.75	1.0	110
3640	AV	Vertical	48.01	54.00	5.99	1.1	100
4550	AV	Vertical	45.62	54.00	8.38	1.1	10
5460	AV	Vertical	45.99	54.00	8.01	1.0	145
6370	AV	Vertical	40.36	54.00	13.64	1.1	60
7280	AV	Vertical	40.02	54.00	13.98	1.1	160
8190	AV	Vertical	39.66	54.00	14.34	1.0	100
9100	AV	Vertical	35.69	54.00	18.31	1.1	10
910	AV	Horizontal	75.32	94.00	18.68	1.1	0
1820	AV	Horizontal	43.66	54.00	10.34	1.0	10
2730	AV	Horizontal	44.25	54.00	9.75	1.2	90
3640	AV	Horizontal	42.99	54.00	11.01	1.1	110

4550	AV	Horizontal	42.36	54.00	11.64	1.2	100
5460	AV	Horizontal	41.36	54.00	12.64	1.1	20
6370	AV	Horizontal	42.32	54.00	11.68	1.2	180
7280	AV	Horizontal	41.03	54.00	12.97	1.1	120
8190	AV	Horizontal	39.36	54.00	14.64	1.0	20
9100	AV	Horizontal	32.36	54.00	21.64	1.1	10
910	Peak	Vertical	87.47	114.00	26.53	1.1	100
1820	Peak	Vertical	58.04	74.00	15.96	1.1	120
2730	Peak	Vertical	57.07	74.00	16.93	1.1	110
3640	Peak	Vertical	56.83	74.00	17.17	1.1	100
4550	Peak	Vertical	54.44	74.00	19.56	1.1	10
5460	Peak	Vertical	54.81	74.00	19.19	1.1	145
6370	Peak	Vertical	49.18	74.00	24.82	1.1	60
7280	Peak	Vertical	48.84	74.00	25.16	1.1	160
8190	Peak	Vertical	48.48	74.00	25.52	1.1	100
9100	Peak	Vertical	44.51	74.00	29.49	1.1	10
910	Peak	Horizontal	84.14	114.00	29.86	1.1	0
1820	Peak	Horizontal	52.48	74.00	21.52	1.1	10
2730	Peak	Horizontal	53.07	74.00	20.93	1.4	90
3640	Peak	Horizontal	51.81	74.00	22.19	1.1	110
4550	Peak	Horizontal	51.18	74.00	22.82	1.1	100
5460	Peak	Horizontal	50.18	74.00	23.82	1.1	20
6370	Peak	Horizontal	51.14	74.00	22.86	1.2	180
7280	Peak	Horizontal	49.85	74.00	24.15	1.1	120
8190	Peak	Horizontal	48.18	74.00	25.82	1.0	20
9100	Peak	Horizontal	41.18	74.00	32.82	1.0	10
High Frequency							
920	AV	Vertical	80.36	94.00	13.64	1.2	10
1840	AV	Vertical	49.66	54.00	4.34	1.1	10
2760	AV	Vertical	47.12	54.00	6.88	1.1	90
3680	AV	Vertical	47.25	54.00	6.75	1.0	15
4600	AV	Vertical	46.36	54.00	7.64	1.1	15
5520	AV	Vertical	46.63	54.00	7.37	1.1	160
6440	AV	Vertical	42.36	54.00	11.64	1.0	120
7360	AV	Vertical	40.00	54.00	14.00	1.0	110
8280	AV	Vertical	39.12	54.00	14.88	1.1	90
9200	AV	Vertical	36.36	54.00	17.64	1.1	10

920	AV	Horizontal	76.36	94.00	17.64	1.1	0
1840	AV	Horizontal	47.69	54.00	6.31	1.0	10
2760	AV	Horizontal	46.48	54.00	7.52	1.1	90
3680	AV	Horizontal	46.36	54.00	7.64	1.1	110
4600	AV	Horizontal	42.33	54.00	11.67	1.1	90
5520	AV	Horizontal	40.23	54.00	13.77	1.0	160
6440	AV	Horizontal	40.00	54.00	14.00	1.0	10
7360	AV	Horizontal	36.96	54.00	17.04	1.1	110
8280	AV	Horizontal	35.00	54.00	19.00	1.2	10
9200	AV	Horizontal	34.26	54.00	19.74	1.1	20
920	Peak	Vertical	89.18	114.00	24.82	1.1	10
1840	Peak	Vertical	58.48	74.00	15.52	1.1	10
2760	Peak	Vertical	55.94	74.00	18.06	1.1	90
3680	Peak	Vertical	56.07	74.00	17.93	1.0	15
4600	Peak	Vertical	55.18	74.00	18.82	1.1	15
5520	Peak	Vertical	55.45	74.00	18.55	1.1	160
6440	Peak	Vertical	51.18	74.00	22.82	1.0	120
7360	Peak	Vertical	48.82	74.00	25.18	1.0	110
8280	Peak	Vertical	47.94	74.00	26.06	1.1	90
9200	Peak	Vertical	45.18	74.00	28.82	1.1	10
920	Peak	Horizontal	85.18	114.00	28.82	1.1	0
1840	Peak	Horizontal	56.51	74.00	17.49	1.0	10
2760	Peak	Horizontal	55.30	74.00	18.70	1.1	90
3680	Peak	Horizontal	55.18	74.00	18.82	1.0	110
4600	Peak	Horizontal	51.15	74.00	22.85	1.1	90
5520	Peak	Horizontal	49.05	74.00	24.95	1.0	160
6440	Peak	Horizontal	48.82	74.00	25.18	1.0	10
7360	Peak	Horizontal	45.78	74.00	28.22	1.1	110
8280	Peak	Horizontal	43.82	74.00	30.18	1.1	10
9200	Peak	Horizontal	43.08	74.00	30.92	1.0	20

Note1: Above 1GHz,do a Peak measurements for all emissions,Limit for peak is 94dBuV/m,According to the paragraph in FCC standard and average is 54BuV/m.

Note2: AV Emission Level = Peak Value +20Log₁₀(duty cycle) = Peak Value- 8.82
So the Radiated Emission Test Data as the table follow.For more details of the calculation , please refer the section 8 of the Periodic operation .And The maximum permitted unwanted emission level is 50 dB below the maximum permitted fundamental level.

The formula of calculate Emission Level = Peak Value + 20Log₁₀(duty cycle)

8 Periodic Operation

The duty cycle was determined by the following equation:

To calculate the actual field intensity, The duty cycle correction factor in decibel is needed for later use and can be obtained from following conversion

Duty Cycle(%)=

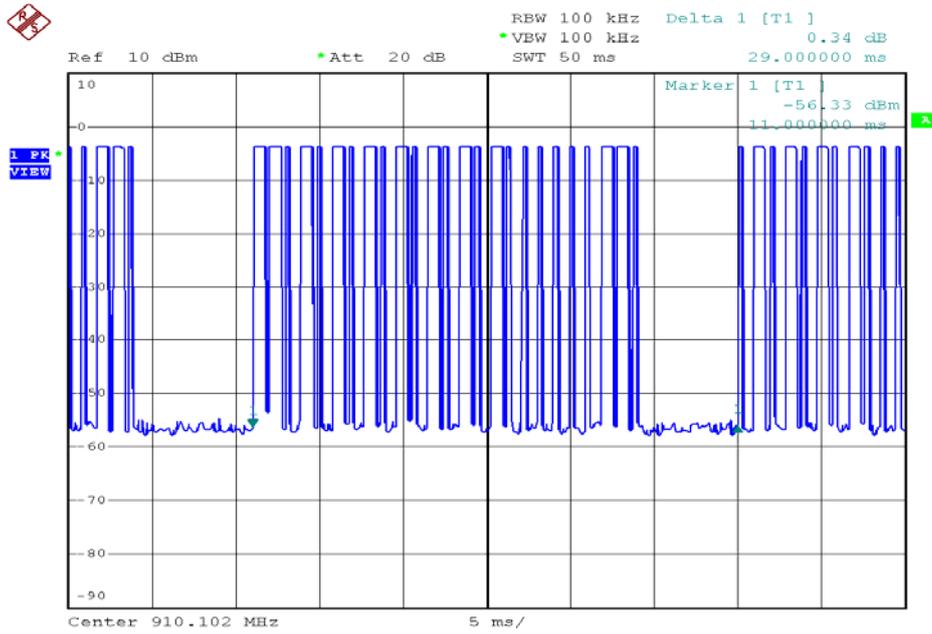
Total On interval in a complete pulse train/ Length of a complete pulse train * %

Duty Cycle Correction Factor(dB)=20 * Log₁₀(Duty Cycle(%))

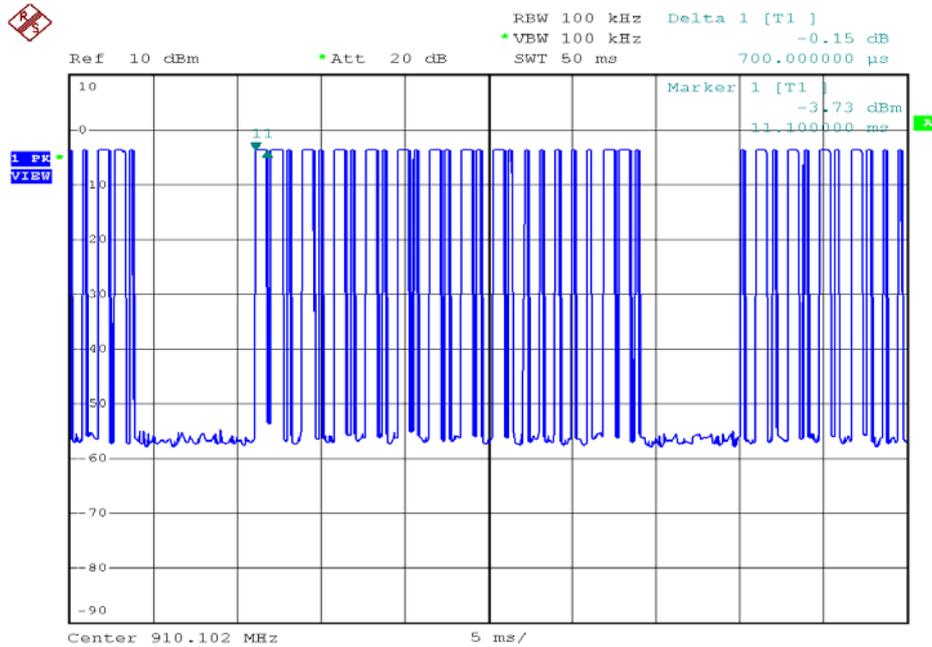
Pulse Train	Number of Pulse	T(ms)	Total Time(ms)
Long Pulse	11	0.7	7.7msec
Short Pulse	14	0.2	2.8msec

Total On interval in a complete pulse train	29.00msec
Length of a complete pulse train	10.5msec
Duty Cycle(%)	36.21%
Duty Cycle Correction Factor(dB)	-8.82

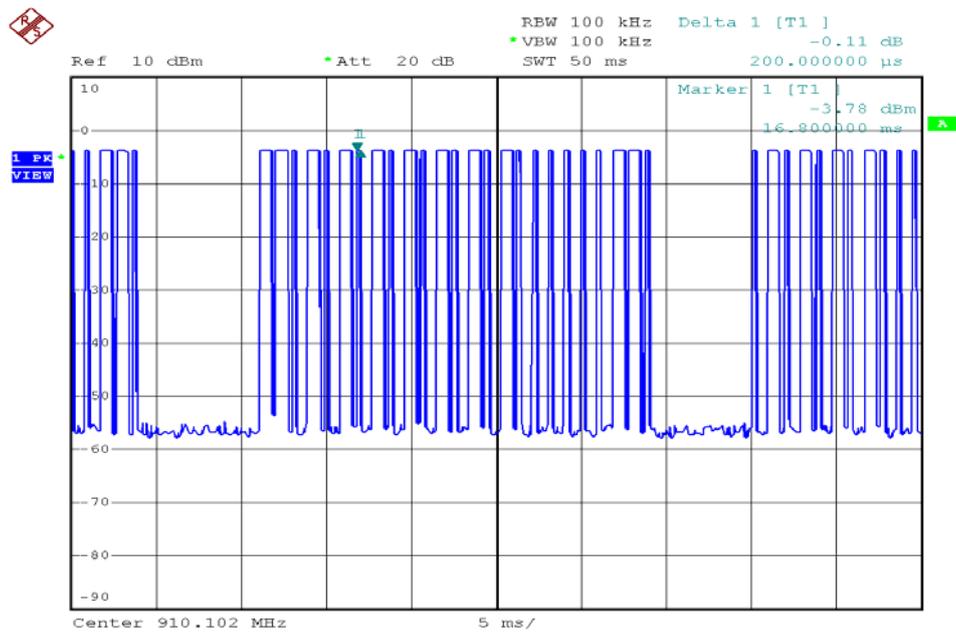
Refer to the duty cycle plot (as below), This device does meet the FCC requirement.
Length of a complete pulse train:



Long Pulse



Short Pulse:



9 Antenna Requirement.

According to the FCC 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 to the intentional radiator shall be considered sufficient to comply with the provisions of this section. This product has a permanent antenna, fulfil the requirement of this section

10 20-dB Bandwidth

Product Name: Wireless Camera
 Test Voltage: DC120V
 Test Mode: TX On
 Temperature: 25.5 °C
 Humidity: 51%RH

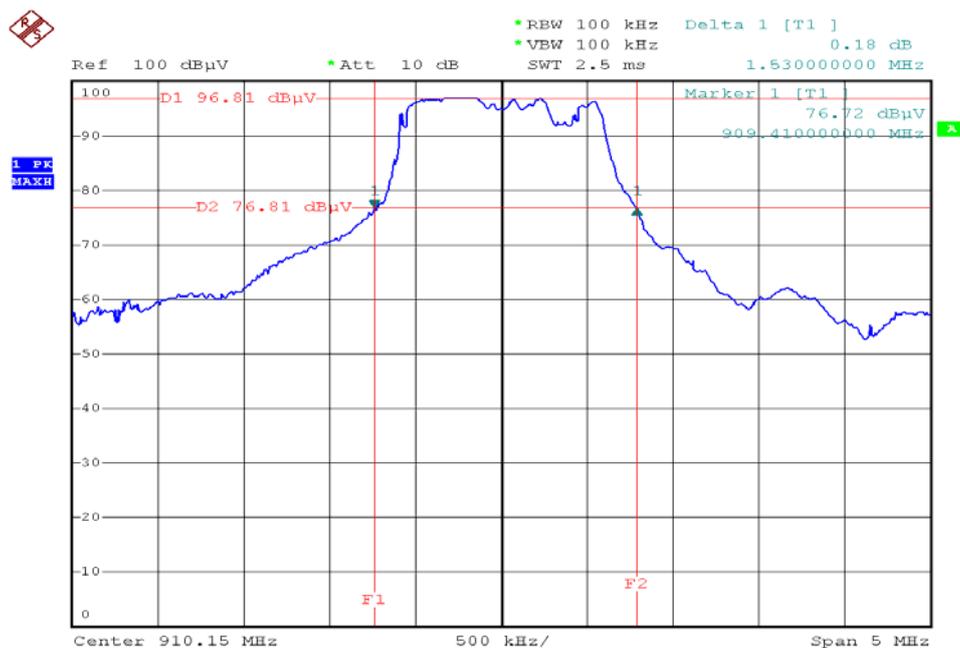
Test Procedure

- 1.The transmitter output (antenna port) was connected to the spectrum analyzer.
- 2.The bandwidth of the fundamental frequency was measure by spectrum analyser with 100KHz RBW and 100KHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power 20dB.

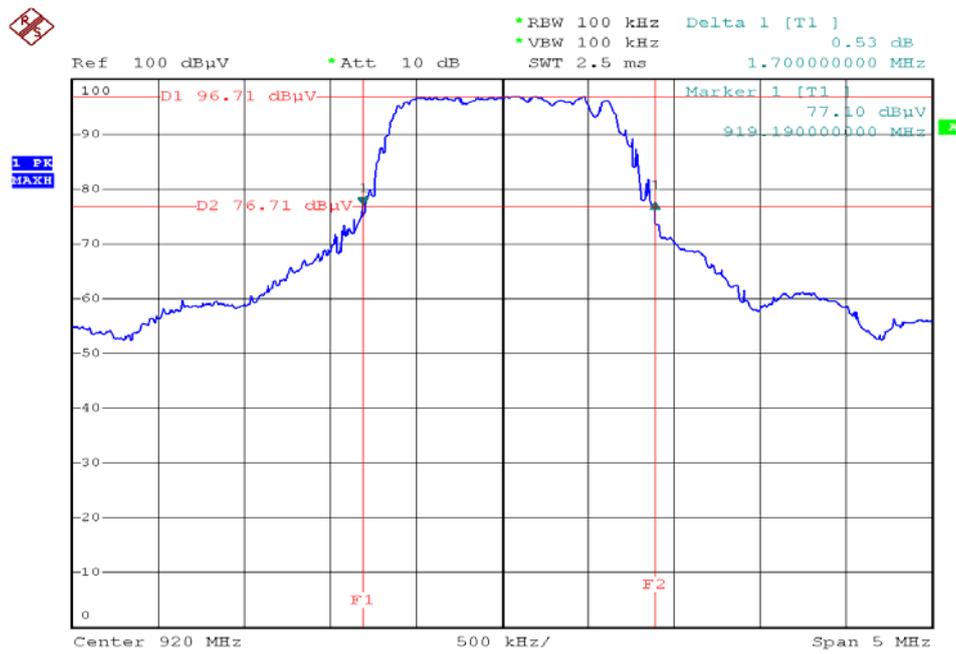
Test Result

Please refer the graph as below:

Lower Channel 910MHz



Upper Channel 920MHz



11 Band Edge

11.1 Test Equipment

Please refer to Section 5 this report.

11.2 Test Procedure

1. The EUT, peripherals were put on the turntable which table size is 1mX1.5m, table high 0.8m. All set up is according to ANSI C63.4: 2003.
2. The bandwidth of the fundamental frequency was measure by spectrum analyser with 100kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power 20dB.

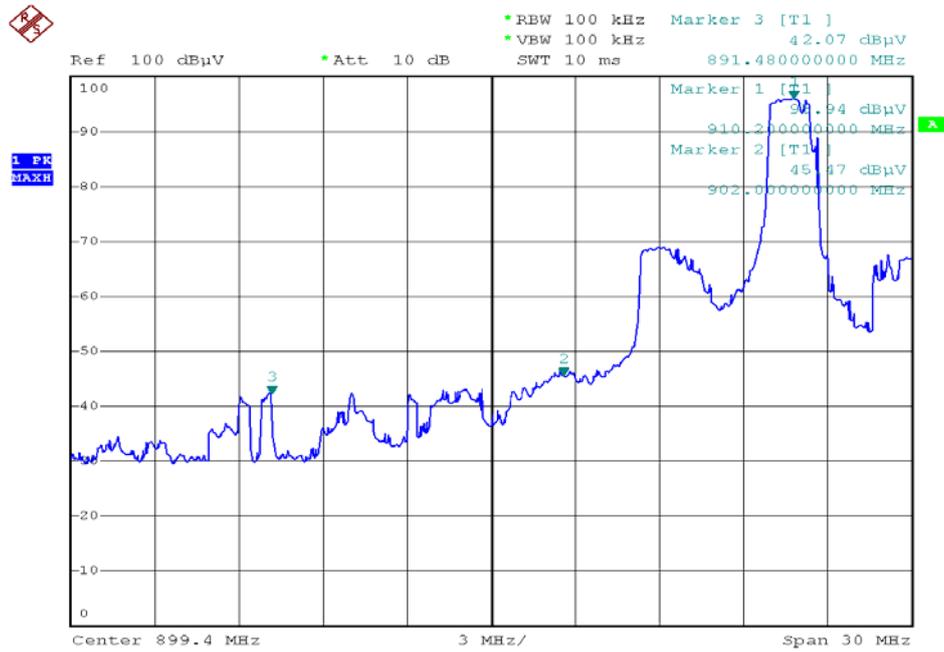
11.3 Band Edge

Requirements: FCC 15.249(d), the emission power at the START and STOP frequencies shall be at least 50dB below the level of the fundamental or to the general radiated emission limits in FCC 15.209.

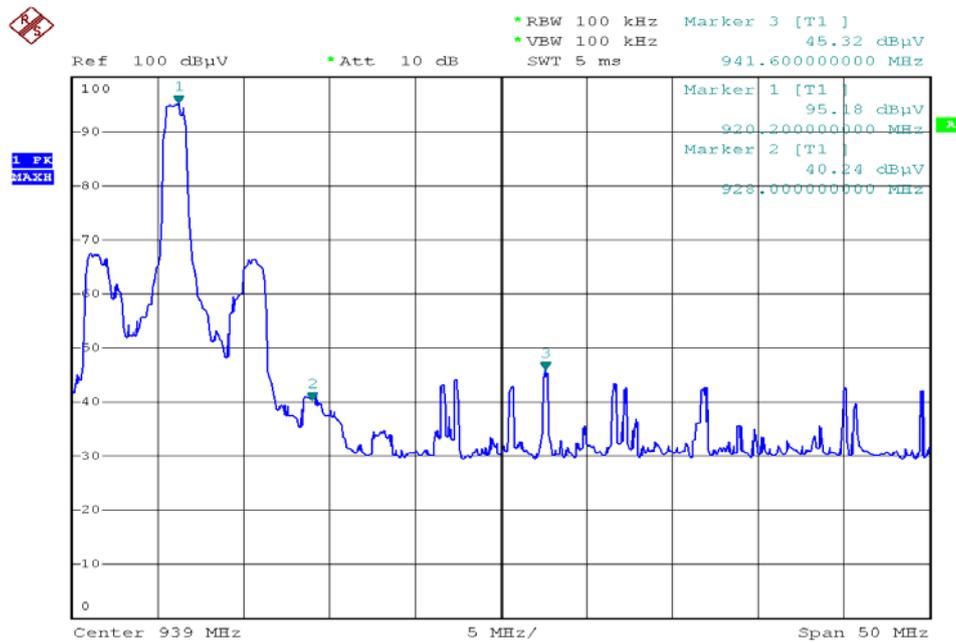
11.4 Band Edge Test Result

Product Name: Wireless Camera
Test Item: Band Edge Test
Test Voltage: AC 120V
Test Mode: TX On
Temperature: 25.5 °C
Humidity: 51%RH

Low Frequency(Peak Value)



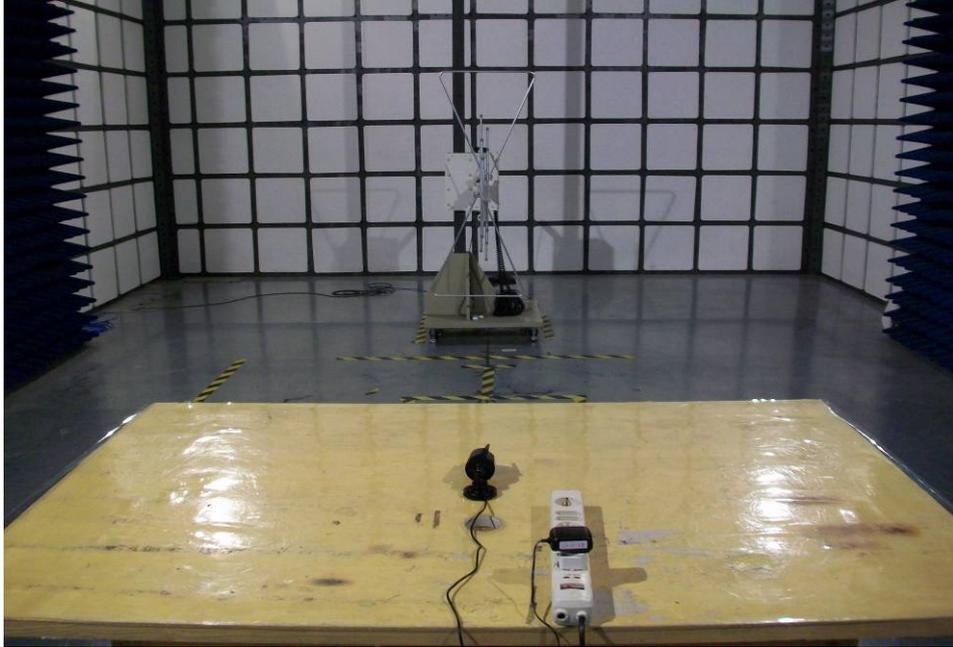
High Frequency(Peak Value)



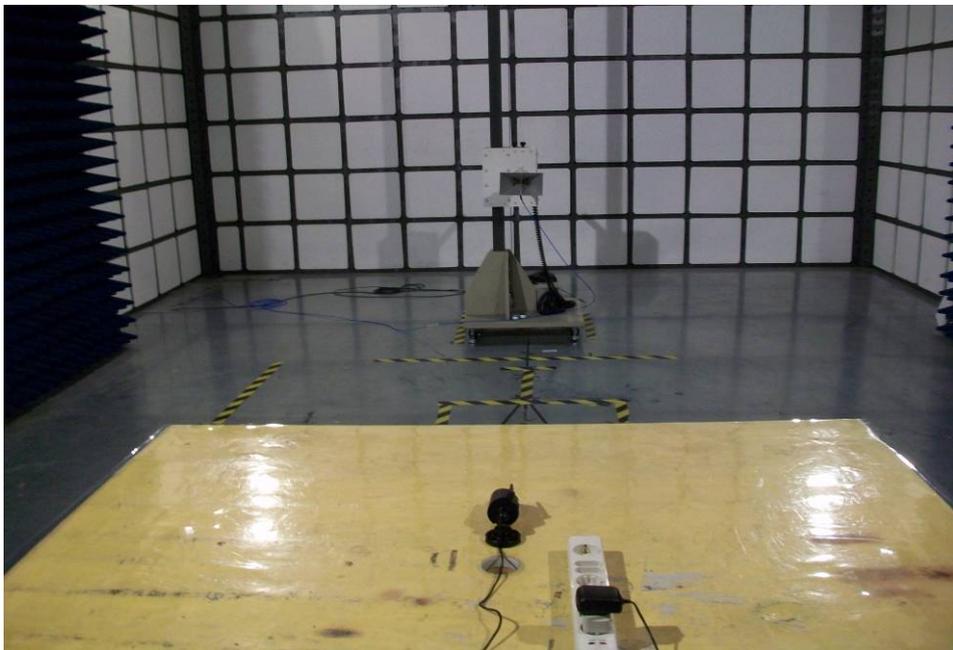
- Note:**
- (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.249.
 - (2) This device does meet the FCC requirement.

12 Photographs of Testing

12.1 Radiation Emission Test View For 30MHz-1000MHz



12.2 Radiation Emission Test View For 1GHz-10GHz



13 Photographs - Constructional Details

13.1 EUT – Appearance View



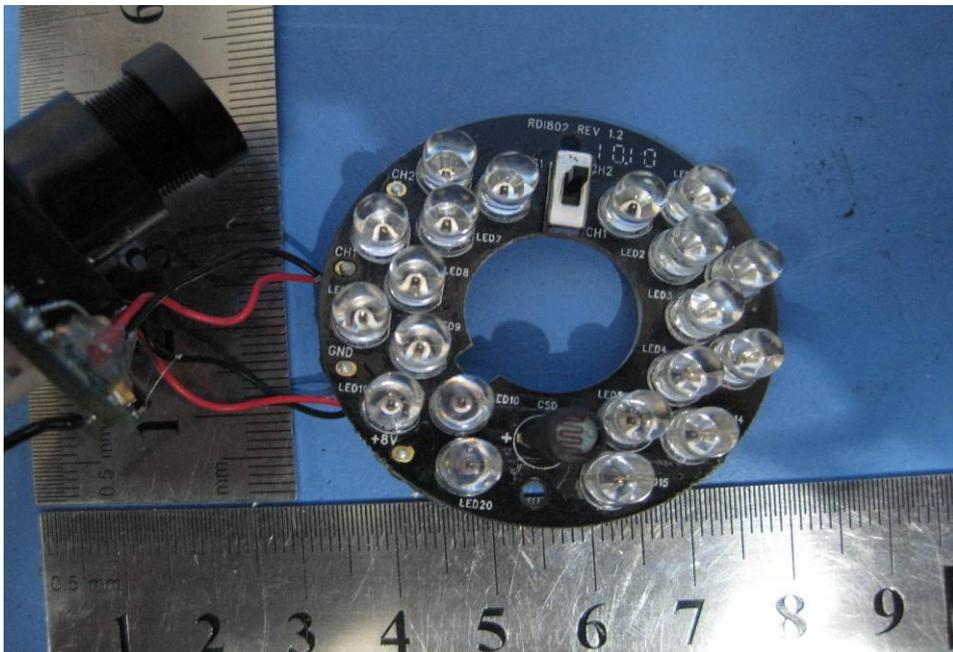
13.2 EUT - Front View



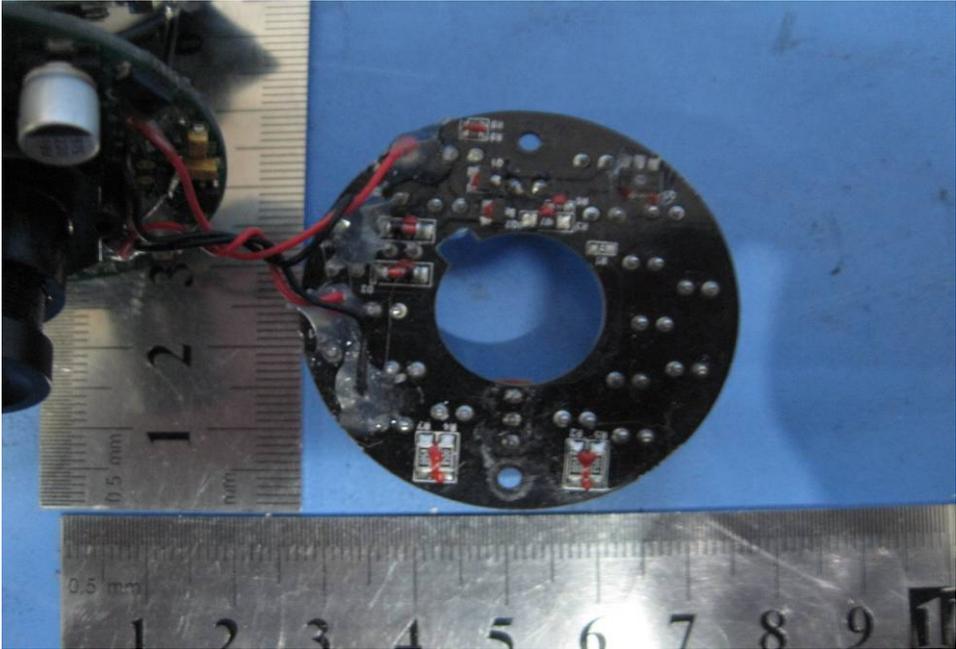
13.3 EUT - Back View



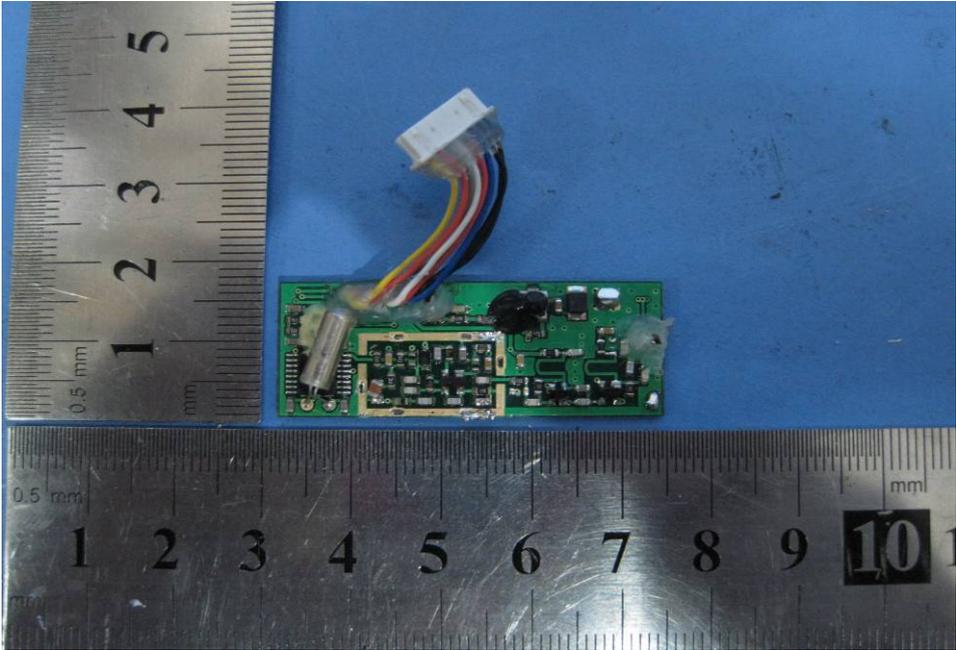
13.4 PCB1 - Front View



13.5 PCB1 - Back View



13.6 PCB2 - Front View



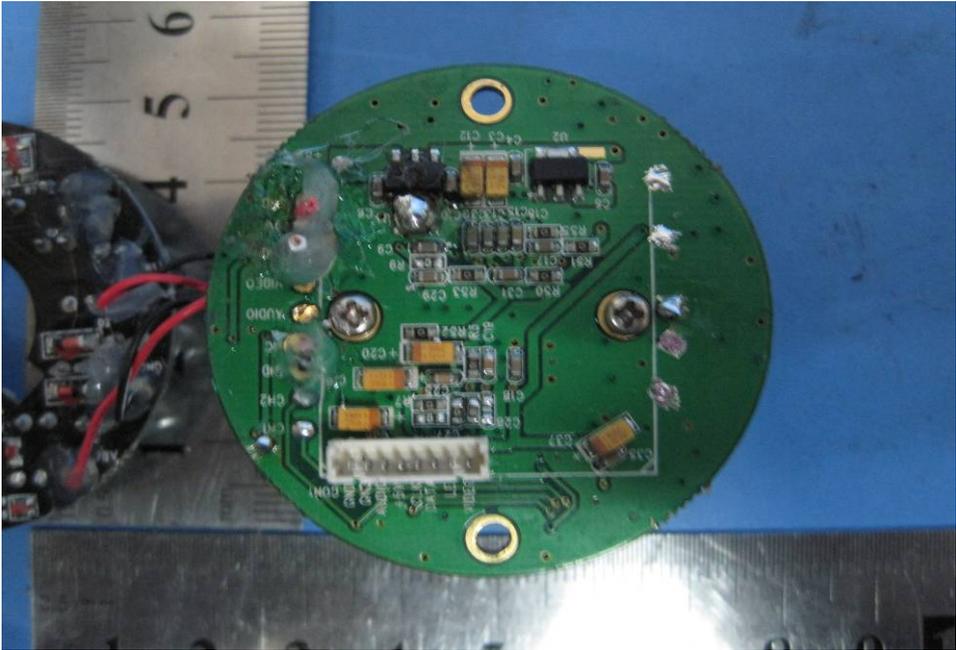
13.7 PCB2 - Back View



13.8 PCB3 - Front View



13.9 PCB3 - Back View



14 FCC ID Label

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. 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.

Proposed Label Location on EUT
EUT Bottom View/proposed FCC Mark Location

