

FCC TEST REPORT

FCC ID : OU4-XG1000S-W

Applicant : Xanboo Inc

Address of Applicant : 400 Columbus Ave. Valhalla New York United States

Equipment Under Test (EUT) :

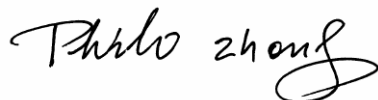
Product description : WiFi Gateway

Model No. : XG1000S-W

Standards : FCC 15 Subpart C Paragraph 15.231

Date of Test : June 09,2010

Test Engineer :Olic huang

Reviewed By : 

PERPARED BY:

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3 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 5GHz)	FCC PART 15: 2007	ANSI C63.4: 2003	N/A	PASS
20dB_BandWidth	FCC PART 15: 2007	ANSI C63.4: 2003	N/A	PASS
Periodic Operation	FCC PART 15: 2007	ANSI C63.4: 2003	N/A	PASS
Conducted Emission (150KHz to 30MHz)	FCC PART 15: 2007	ANSI C63.4: 2003	N/A	PASS

4 General Information

4.1 Client Information

Applicant: Xanboo Inc
Address: 400 Columbus Ave. Valhalla New York United States

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: WiFi Gateway
Model No.: XG1000S-W

4.3 Details of E.U.T.

Power Supply: Input : AC 100-240V, 50/60Hz, 0.45A
Output: DC 5.0V, 1500mA

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Standards Applicable for Testing

The customer requested FCC tests for a WiFi Gateway. The standards used were FCC 15 Paragraph 15.231, Paragraph 15.205, Paragraph 15.31, Paragraph 15.33, Paragraph 15.35.

4.6 Test Facility

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

- **IC – Registration No.:7760A**

Waltek Services(Shenzhen) Co., Ltd. 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.

- **FCC – Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. 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. compliance

4.7 Test Location

All Emissions tests were performed at:-

Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen 518105, 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- ELEKTROM / VULB9163	336	W2008002	30-3000 MHz	Aug-09	Aug-10		±1dB
Broad- band Horn Antenna	SCHWARZB ECK MESS- ELEKTROM / VULB9163	667	W2008003		Aug-09	Aug-10		f<10 GHz: ±1dB 10GHz<f< 18 GHz: ±1.5dB
Broadband Preamplifie r	SCHWARZB ECK MESS- ELEKTROM / 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- ELEKTROM / AK 9515 H	-	-	-	Aug-09	Aug-10		-
10m 50 Ohm Coaxial Cable with N- plug, indivi dual length, usab le up to 3(5)GHz, Connector	SCHWARZB ECK MESS- ELEKTROM / 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		
PC	acer	AG1720	W2008015		Aug-09	Aug-10		

6 Conducted Emission Test

Product Name:	WiFi Gateway
Test Requirement:	FCC Part15 Paragraph 15.207
Test Method:	Based on FCC Part15 Paragraph 15.207
Test Date:	Jun 09,2010
Frequency Range:	150kHz to 30MHz
Class:	Class B
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth) Quasi-Peak & Average if maximised peak within 6dB of Average Limit

6.1 Test Equipment

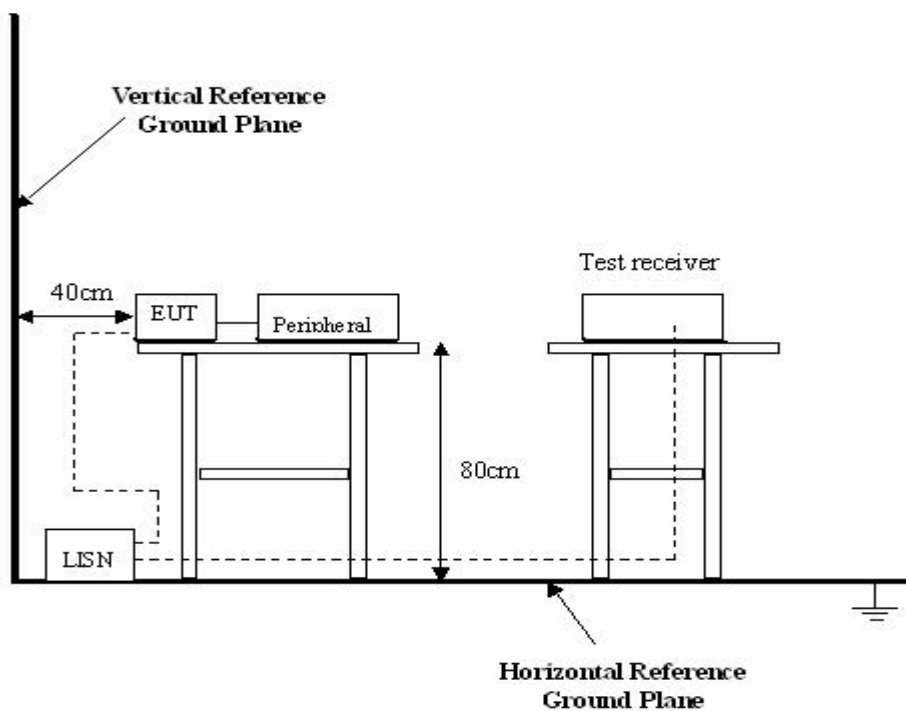
Please refer to Section 5 this report.

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

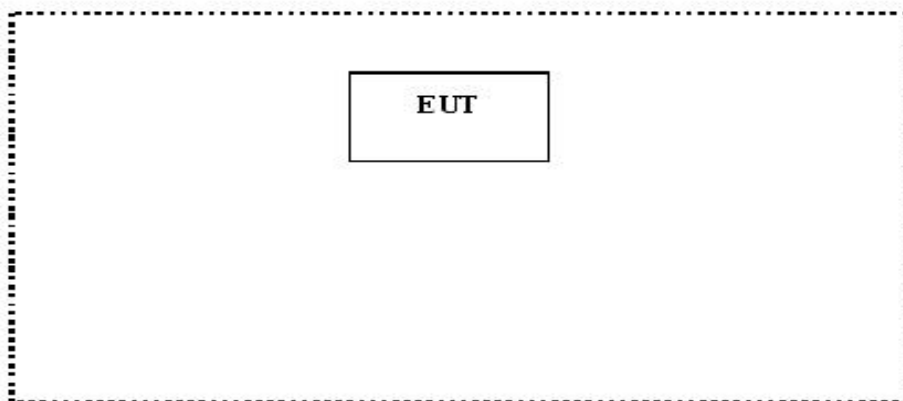
The conducted emission tests were performed using the setup accordance with the ANSI C63.4: 2003, The specification used in this report was the FCC Part15 Paragraph 15.207 limits.



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

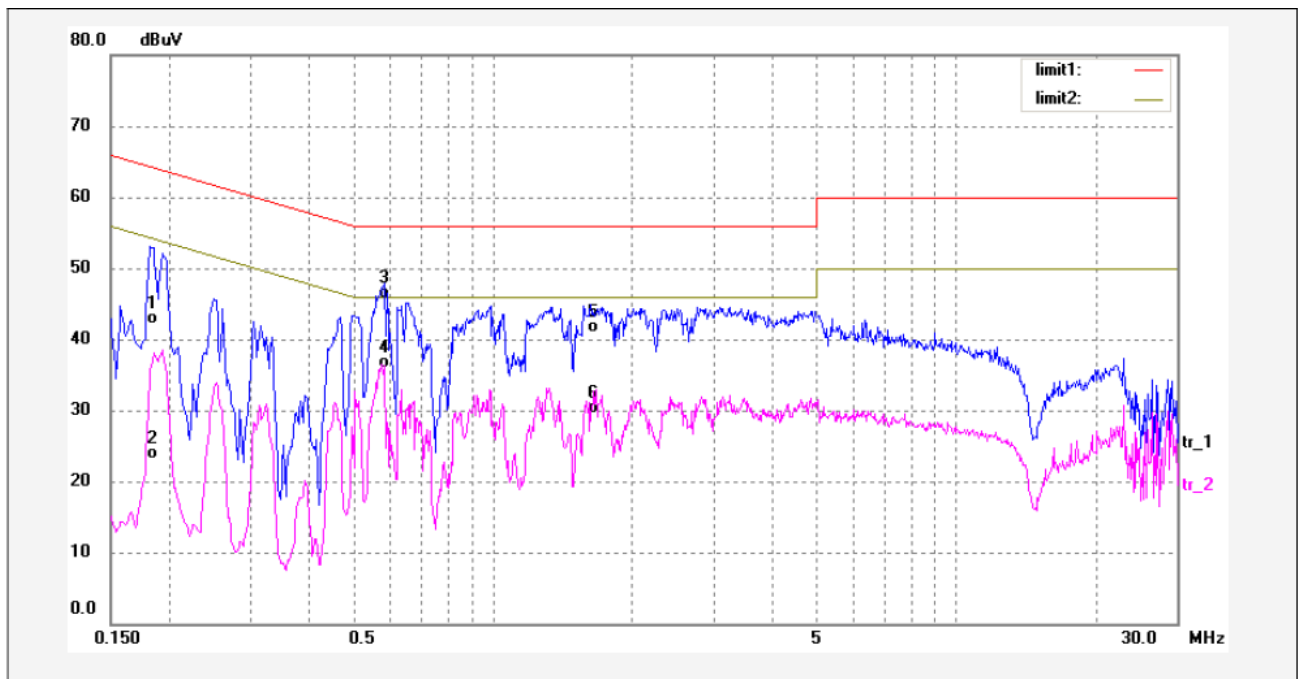
66-56 dB μ V between 0.15MHz & 0.5MHz
 56 dB μ V between 0.5MHz & 5MHz
 60 dB μ V between 5MHz & 30MHz

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

6.6 Conducted Emission Test Data

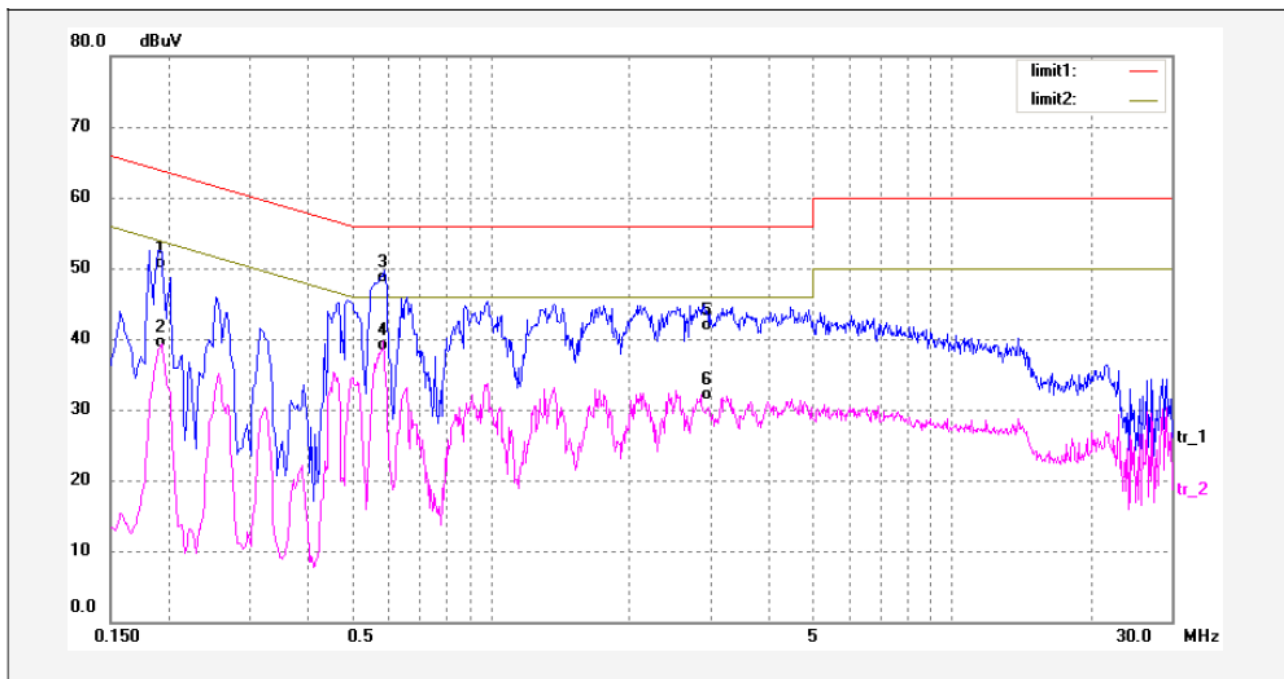
Remark:the EUT was tested in wireless mode and PC mode,and the worse case mode was found in wireless mode.so the data show was the wireless mode only.

Live Line



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1819	31.75	10.35	42.10	64.39	-22.29	QP	
2	0.1819	12.79	10.35	23.14	54.39	-31.25	AVG	
3	0.5860	35.30	10.35	45.65	56.00	-10.35	QP	
4	0.5860	25.49	10.35	35.84	46.00	-10.16	AVG	
5	1.6340	30.44	10.37	40.81	56.00	-15.19	QP	
6	1.6340	19.19	10.37	29.56	46.00	-16.44	AVG	

Neutral Line



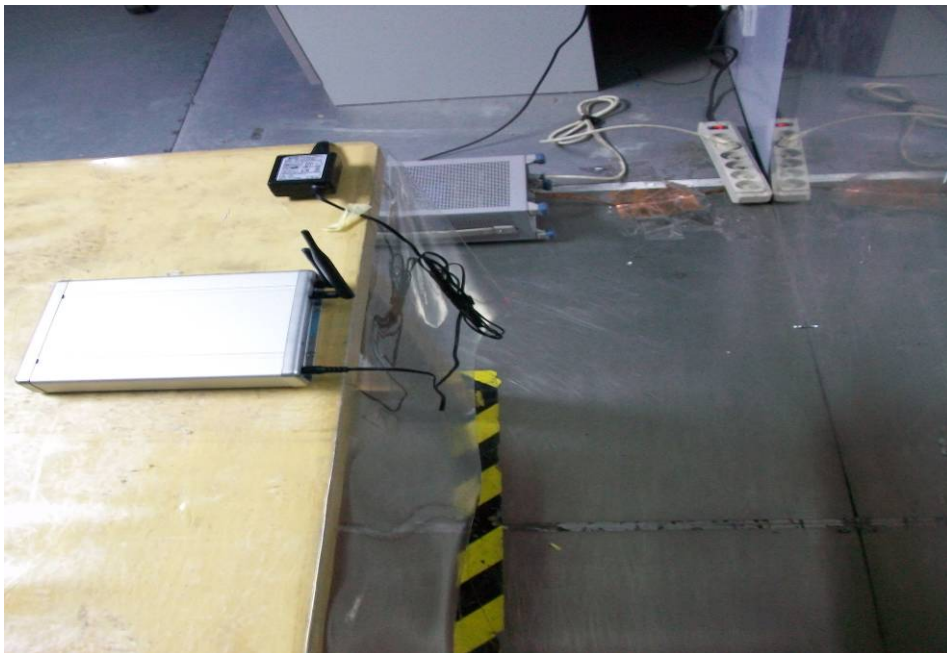
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1900	39.64	10.35	49.99	64.03	-14.04	QP	
2	0.1900	28.40	10.35	38.75	54.03	-15.28	AVG	
3	0.5899	37.50	10.35	47.85	56.00	-8.15	QP	
4	0.5899	28.03	10.35	38.38	46.00	-7.62	AVG	
5	2.9020	30.66	10.38	41.04	56.00	-14.96	QP	
6	2.9020	20.84	10.38	31.22	46.00	-14.78	AVG	

6.7 Conducted Emission Test Setup View

6.7.1 Test Setup Front View for the wireless mode.



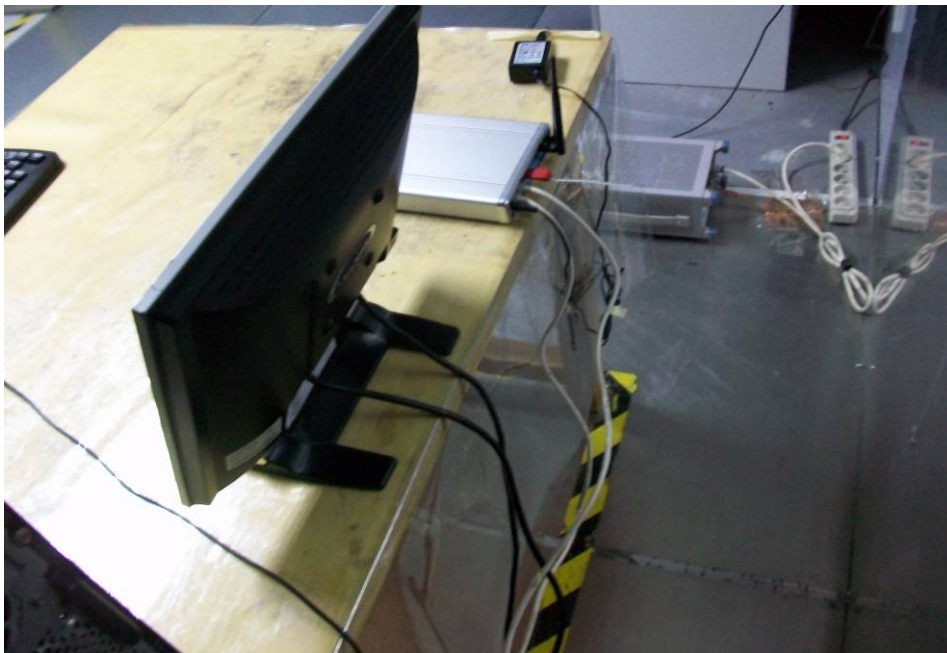
6.7.2 Test Setup Back View for the wireless mode.



6.7.3 Test Setup Front View for the PC mode.



6.7.4 Test Setup Back View for the PC mode.



7 Radiation Emission Test

Product Name:	WiFi Gateway
Test Requirement:	FCC Part15 Paragraph 15.231
Test Method:	Based on FCC Part15 Paragraph 15.33
Test Date:	Jun 09,2010
Frequency Range:	30MHz to 5GHz
Measurement Distance:	3m

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 center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

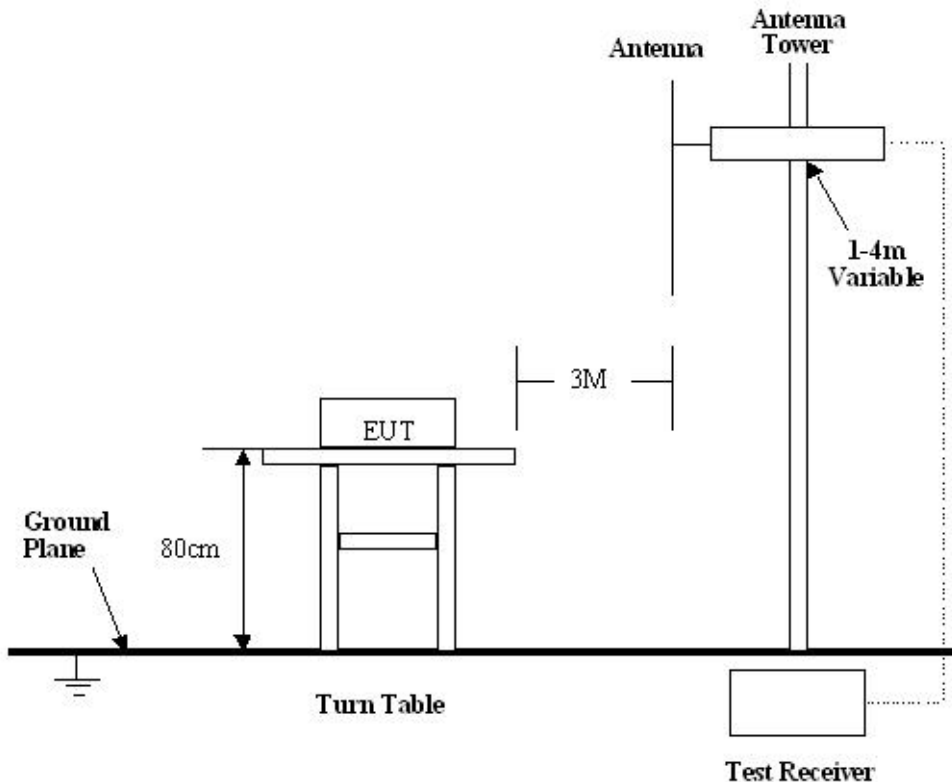
Based on ANSI C63.4: 2003, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Waltek EMC Lab is +/- 5.03 dB.

7.3 Test Procedure

1. The adapter was used installed in the equipment under test for radiated emissions test.
2. The radiation emission should be tested under X-axes position,
3. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.
4. All data was recorded in the peak and average detection mode.
5. The EUT was under working 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 15.231, Paragraph 15.209 limits.



7.5 Spectrum Analyzer Setup

According to FCC Part15 Paragraph 15.231 Rules, the system was tested to 5000 MHz.

Below 1GHz

- Start Frequency30 MHz
- Stop Frequency 1000 MHz
- Sweep Speed Auto
- IF Bandwidth 120 kHz
- Video Bandwidth 100 kHz
- Quasi-Peak Adapter Bandwidth 120 kHz
- Quasi-Peak Adapter Mode.....Normal
- Resolution Bandwidth 100 kHz

Above 1GHz

Start Frequency	1GHz
Stop Frequency	5GHz
Sweep Speed	Auto
IF Bandwidth	120 kHz
Video Bandwidth	1 MHz
Quasi-Peak Adapter Bandwidth	120 kHz
Quasi-Peak Adapter Mode.....	Normal
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 15.231 standards.

7.8 EUT Operating Condition

Same as section 6.4 of this report.

7.9 Radiated Emissions Limit

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40. 66-40. 70.....	1, 000.....	100
70-130.....	1, 250.....	125
130-174.....	\1\ 1, 250 to 3, 750	\1\ 125 to 375
174-260.....	3, 750.....	375
260-470.....	\1\ 3, 750 to 12, 500.	\1\ 375 to 1, 250
Above 470.....	12, 500.....	1, 250

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 presselector was accounted
For in the spectrum analyzer meter reading.

Example:

Freq(MHz) Meter Reading +ACF=FS

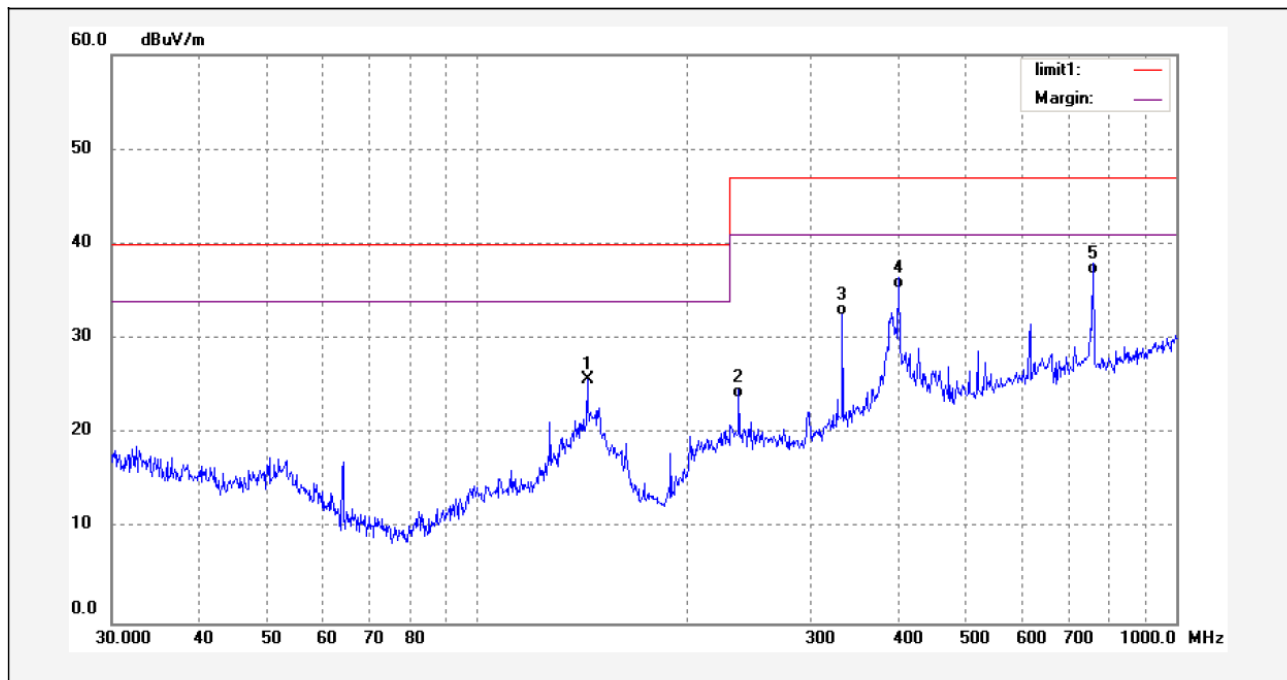
33 20dBuV+10.36dB=30.36dBuV/m @3m

7.10.1 Radiated Emission Test Data

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

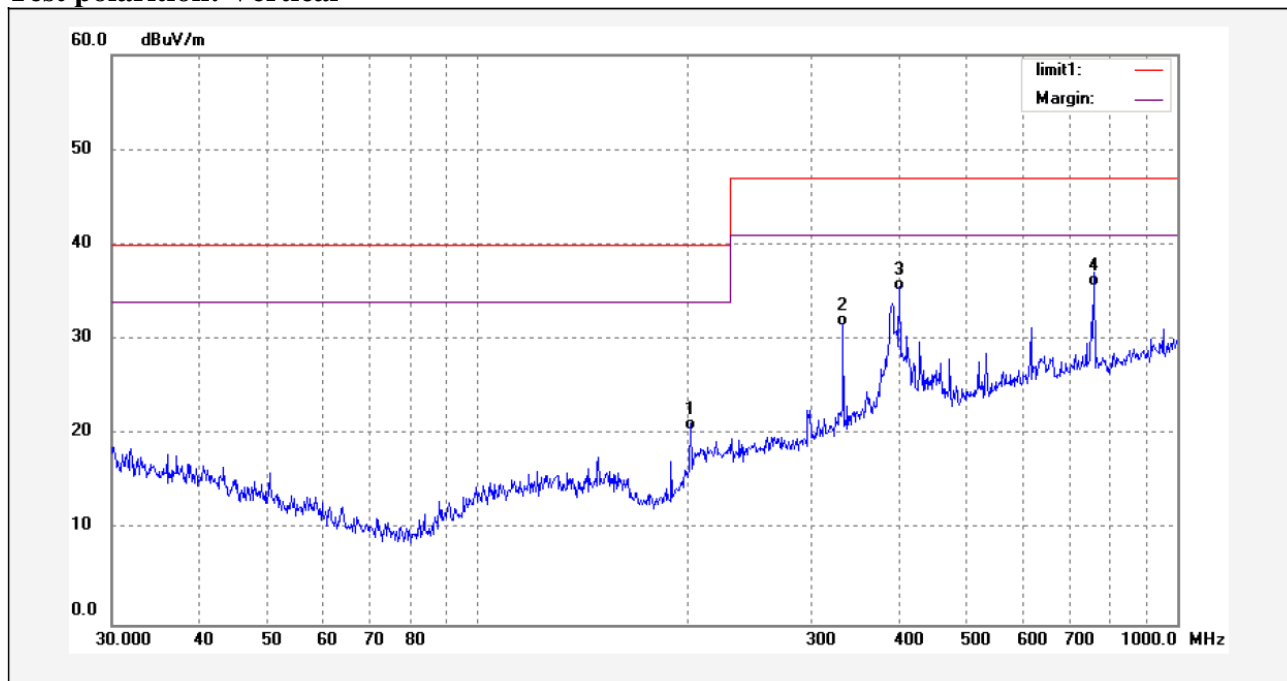
7.10.2 Radiated Emission Test Data For PC Mode

Test polarition: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	143.7760	12.29	13.44	25.73	40.00	-14.27	peak	
2	236.7927	6.88	16.84	23.72	47.00	-23.28	QP	
3	332.9534	13.01	19.40	32.41	47.00	-14.59	QP	
4	401.1050	14.25	21.11	35.36	47.00	-11.64	QP	
5	760.2867	11.35	25.44	36.79	47.00	-10.21	QP	

Test polarition: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	201.4539	5.31	15.18	20.49	40.00	-19.51	QP	
2	332.9534	11.95	19.40	31.35	47.00	-15.65	QP	
3	401.1050	14.03	21.11	35.14	47.00	-11.86	QP	
4	760.2867	10.25	25.44	35.69	47.00	-11.31	QP	

7.10.3 Radiated Emission Test Data For Wireless Mode

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	FCC 15 Subpart C Limit (dBuV/m)	Margin	Antenna Height (m)	Turntable Angle(°)
418.92	AV	Vertical	56.33	72.32	15.99	1.0	100
837.84	AV	Vertical	50.01	52.32	2.31	1.1	45
1256.76	AV	Vertical	43.33	54.00	10.67	1.0	120
1675.68	AV	Vertical	40.33	54.00	13.67	1.1	60
2094.6	AV	Vertical	26.43	54.00	27.57	1.1	140
2513.52	AV	Vertical	27.36	54.00	26.64	1.1	60
2932.44	AV	Vertical	28.91	54.00	25.09	1.2	45
3351.36	AV	Vertical	29.07	54.00	24.93	1.0	60
3770.28	AV	Vertical	28.61	54.00	25.39	1.0	45
4189.2	AV	Vertical	27.44	54.00	26.56	1.2	110
418.92	AV	Horizontal	66.30	72.32	6.02	1.0	110
837.84	AV	Horizontal	48.21	52.32	4.11	1.1	90
1256.76	AV	Horizontal	41.33	54.00	12.67	1.1	135
1675.68	AV	Horizontal	38.60	54.00	15.40	1.1	90
2094.6	AV	Horizontal	33.02	54.00	20.98	1.2	130
2513.52	AV	Horizontal	30.18	54.00	23.82	1.2	40
2932.44	AV	Horizontal	28.37	54.00	25.63	1.2	60
3351.36	AV	Horizontal	30.08	54.00	23.92	1.1	110
3770.28	AV	Horizontal	24.81	54.00	29.19	1.1	140
4189.2	AV	Horizontal	26.70	54.00	27.30	1.0	0
418.92	Peak	Vertical	59.98	92.32	32.34	1.0	100
837.84	Peak	Vertical	53.66	72.32	18.66	1.0	45
1256.76	Peak	Vertical	46.98	74.00	27.02	1.0	120
1675.68	Peak	Vertical	43.98	74.00	30.02	1.2	0
2094.6	Peak	Vertical	30.08	74.00	43.92	1.1	140
2513.52	Peak	Vertical	31.01	74.00	42.99	1.1	60
2932.44	Peak	Vertical	32.56	74.00	41.44	1.1	45
3351.36	Peak	Vertical	32.72	74.00	41.28	1.1	60
3770.28	Peak	Vertical	32.26	74.00	41.74	1.1	50

4189.2	Peak	Vertical	31.09	74.00	42.91	1.1	110
418.92	Peak	Horizontal	69.95	92.32	22.37	1.0	110
837.84	Peak	Horizontal	51.86	72.32	20.46	1.1	90
1256.76	Peak	Horizontal	44.98	74.00	29.02	1.1	45
1675.68	Peak	Horizontal	42.25	74.00	31.75	1.0	90
2094.6	Peak	Horizontal	36.67	74.00	37.33	1.0	130
2513.52	Peak	Horizontal	33.83	74.00	40.17	1.0	40
2932.44	Peak	Horizontal	32.02	74.00	41.98	1.1	60
3351.36	Peak	Horizontal	33.73	74.00	40.27	1.1	110
3770.28	Peak	Horizontal	28.46	74.00	45.54	1.1	10
4189.2	Peak	Horizontal	30.35	74.00	43.65	1.2	90

Where F is the frequency in MHz, The formulas for calculating the maximum permitted fundamental field strengths are as follows:

(1). For the band 130-174MHz, $\mu\text{V/m}$ at 3 meters = $22.72727(F) - 2454.545$;

(2). For the band 260-470MHz, $\mu\text{V/m}$ at 3 meters = $16.6667(F) - 2833.3333$.

Sample calculation of limit @ 418.92MHz

$16.6667(418.00) - 2833.333 = 4133.3476\text{V/m}$

$20\log(4133.3476) = 72.32\text{ dBuV/m}$ limit @ 418.92MHz

And

The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

$AV = \text{Peak} + 20\log_{10}(\text{duty cycle})$

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 * %

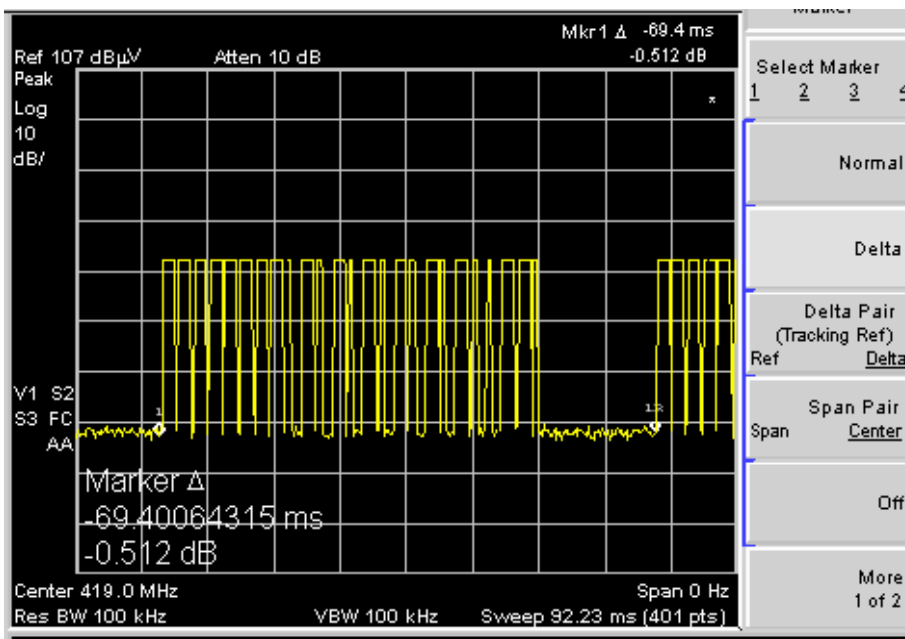
Duty Cycle Correction Factor(dB)=20 * Log₁₀(Duty Cycle(%))

Pulse Train	Number of Pulse	T(ms)	Total Time(ms)
Long Pulse	16	2.075	33.2msec
Short Pulse	9	1.383	12.447msec

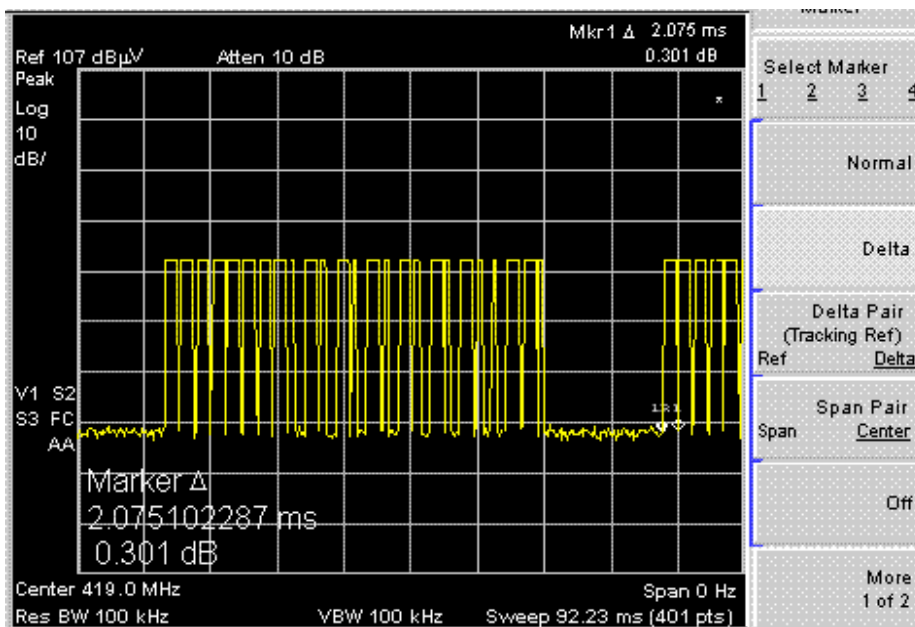
Total On interval in a complete pulse train	69.4msec
Length of a complete pulse train	45.647msec
Duty Cycle(%)	65.78%
Duty Cycle Correction Factor(dB)	3.65

Refer to the duty cycle plot (as below), This device does meet the FCC requirement.

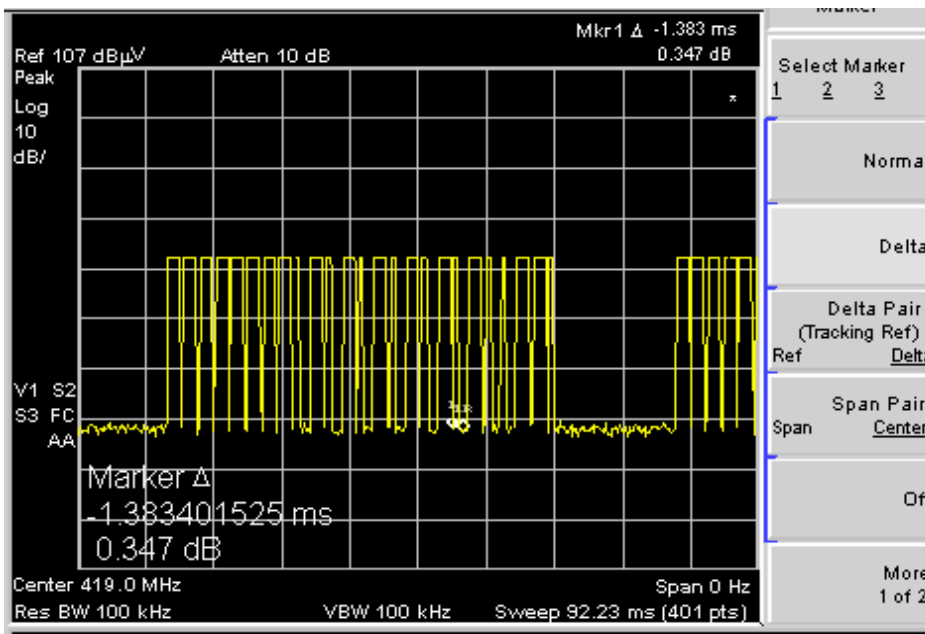
Length of a complete pulse train:



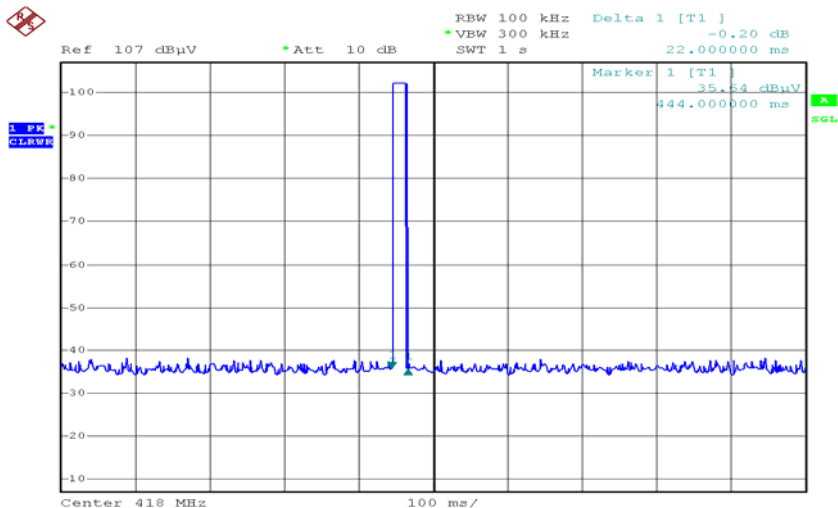
Long Pulse



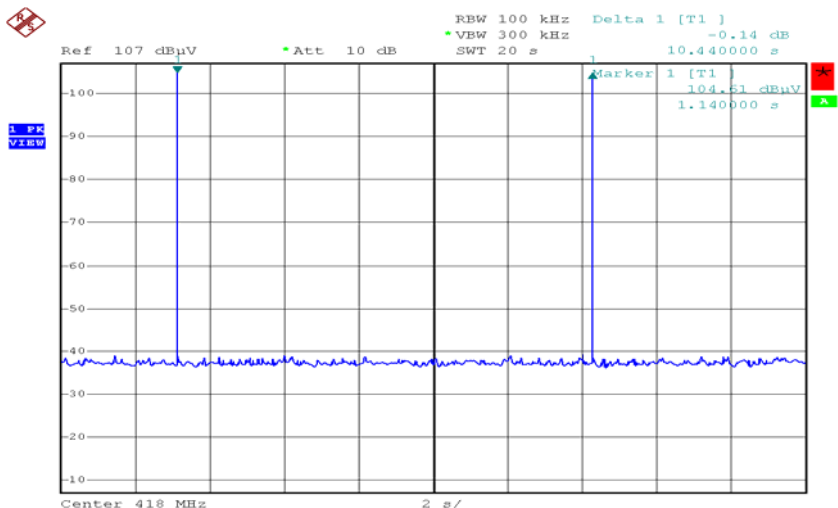
Short Pulse:



Refer to the plot (as below), We find each the duration transmission for the device is about 0.022seconds and silent period between transmissions is about 10.44 seconds, This device does meet the FCC requirement.



1
Date: 9.JUN.2010 10:27:28



1
Date: 23.JUN.2010 10:43:27

9 Antenna Requirement.

According to the FCC Part 15 Paragraph 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. 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, fulfill the requirement of this section

10 Band Edge

Test Requirement:	FCC Part 15C
Test Method:	Based on FCC Part15 Paragraph 15.231
Test Date:	Jun 09,2010
Test mode:	TX On
Temperature:	25.5 °C
Humidity:	51%RH

10.1 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.EUT and its simulators are placed on a table, let EUT working in test mode,then test it.
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.

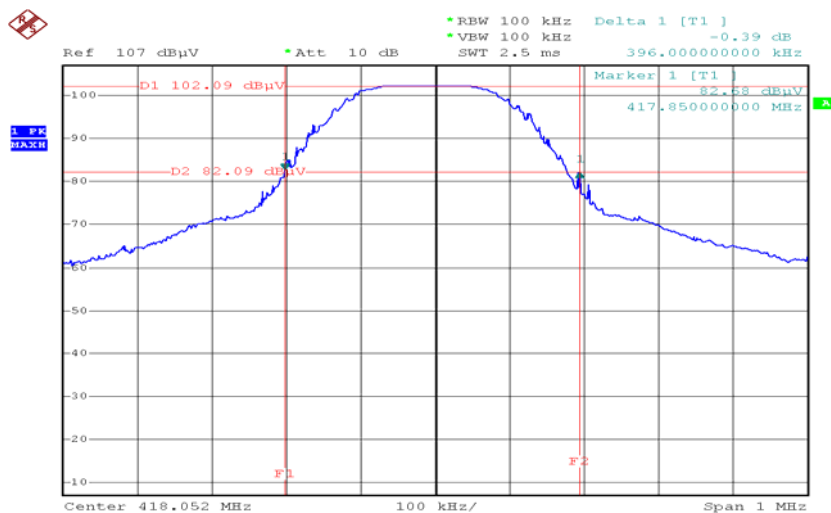
10.2 Band Edge

Requirements: The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Frequency (MHz)	Bandwidth Emission (KHz)	Limit (KHz)	Result
418.92	396	1084.8	Pass

10.3 Band Edge Test Result

418.00MHz TX



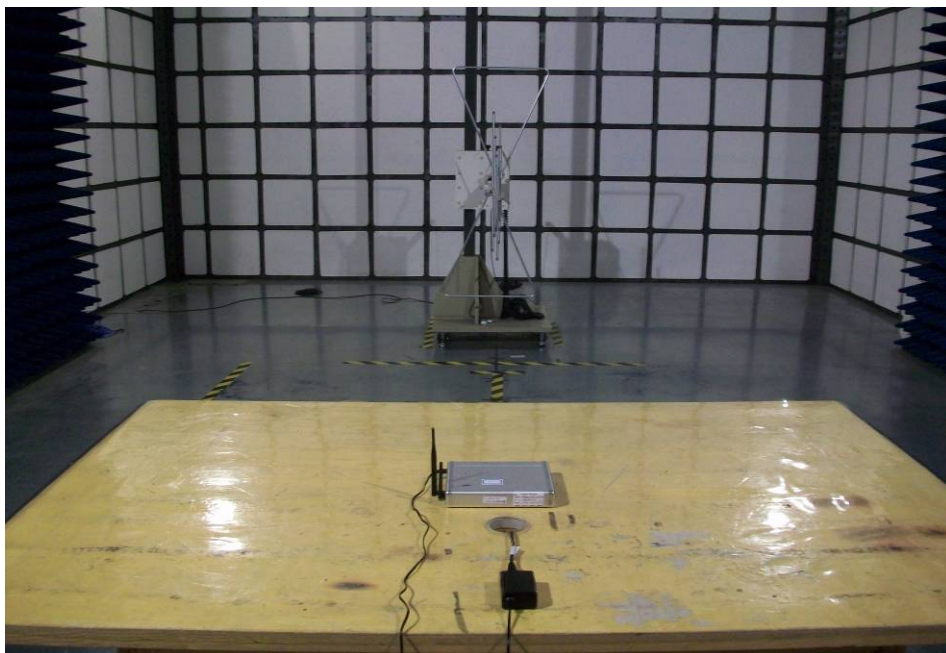
1
Date: 9.JUN.2010 09:23:25

11 Photographs of Testing

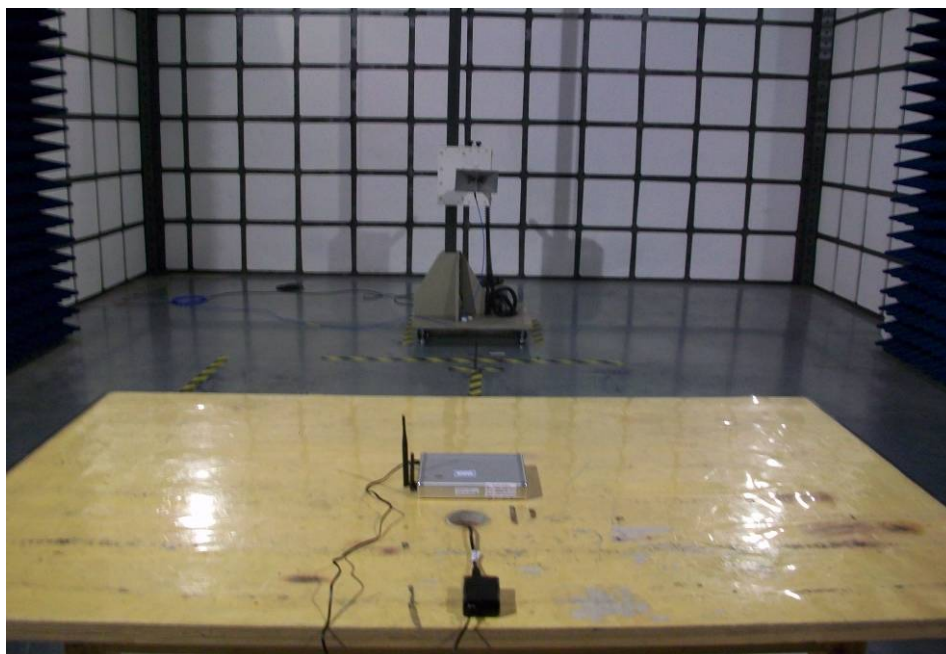
11.1 Radiation Emission Test View For 30MHz-1000MHz for PC mode



11.2 Radiation Emission Test View For 30MHz-1000MHz for wireless mode



11.3 Radiation Emission Test View For 1GHz-5GHz

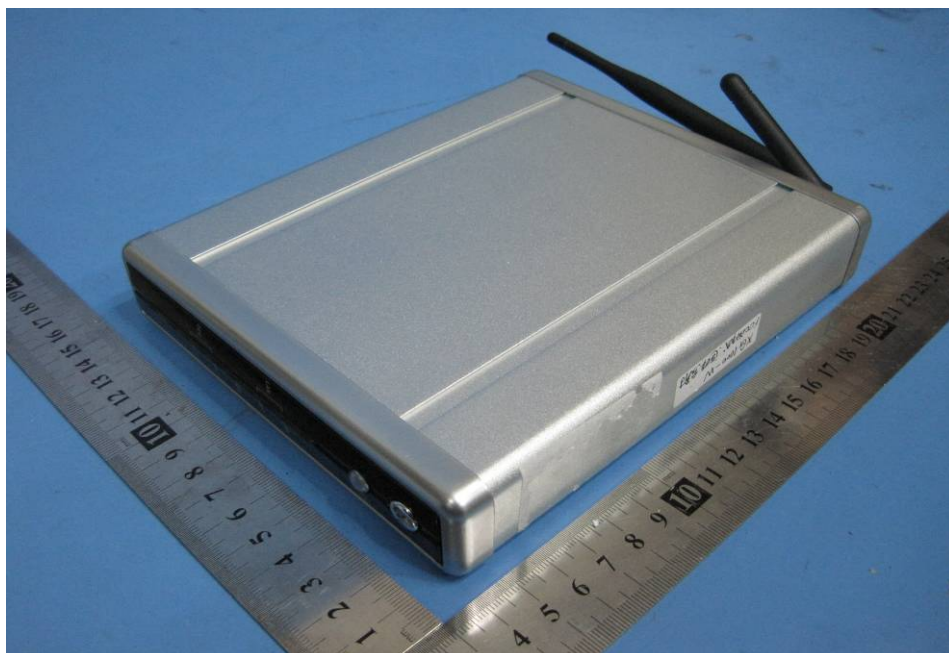


12 Photographs - Constructional Details

12.1 EUT - Appearance View



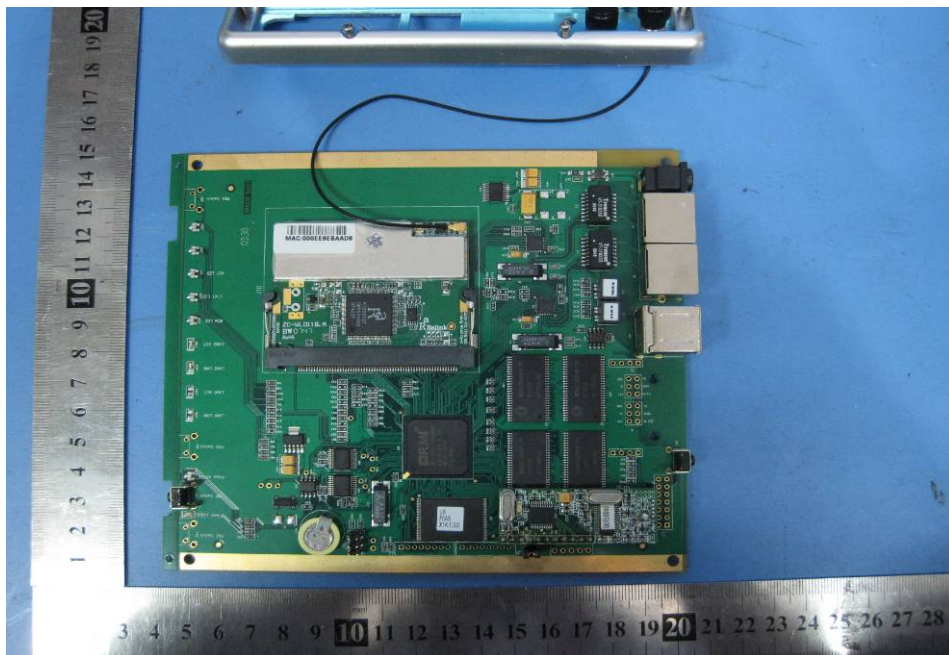
12.2 EUT - Front View



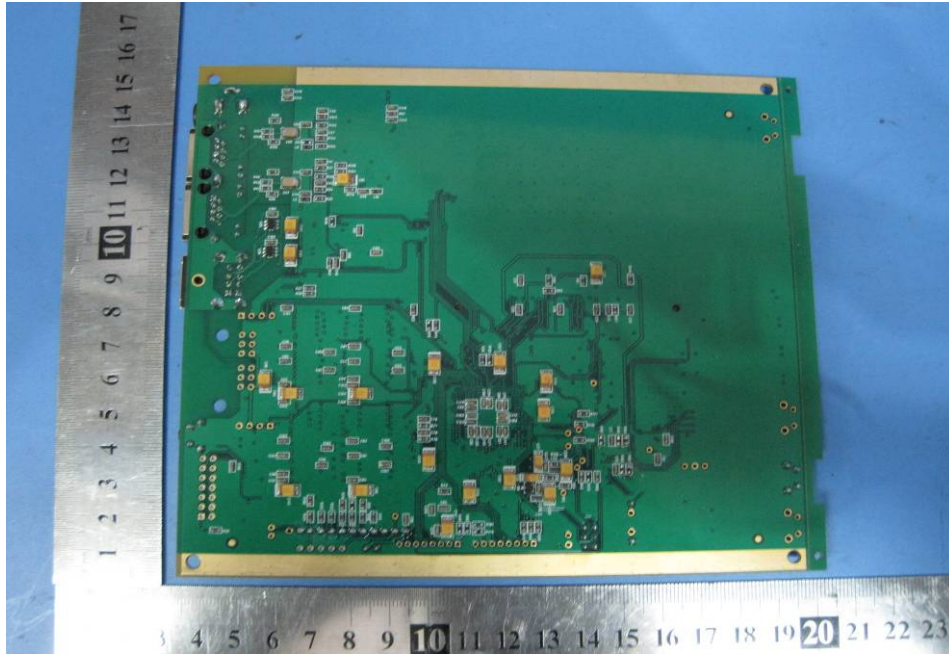
12.3 EUT - Back View



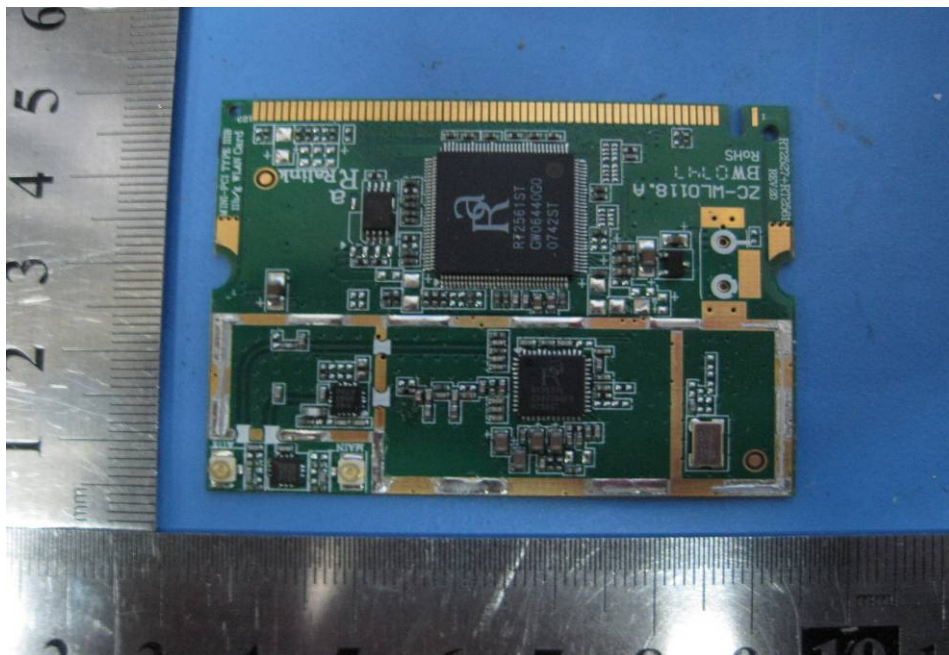
12.4 PCB1-Front View



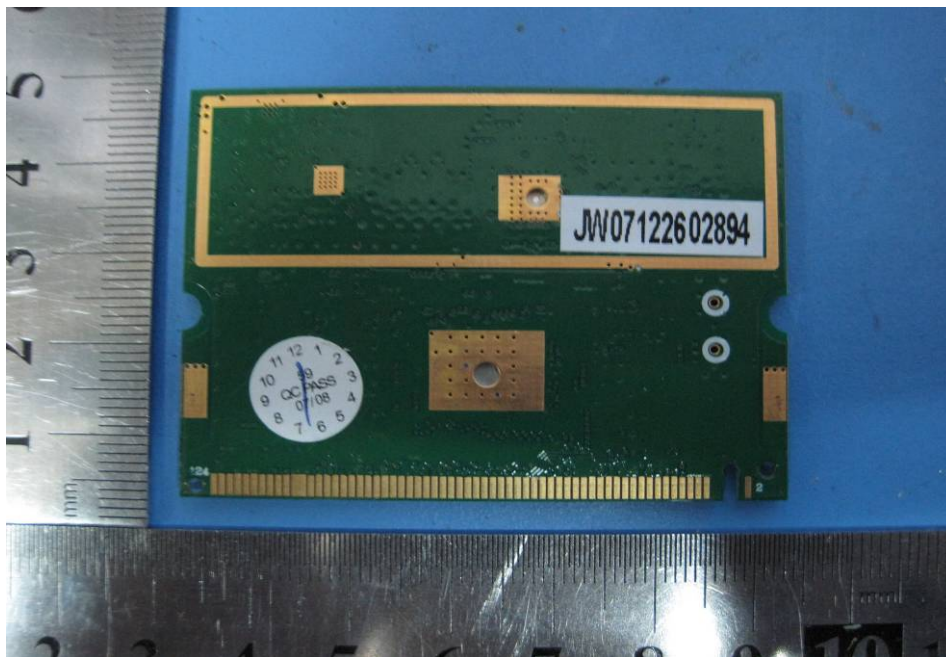
12.5 PCB1-Back View



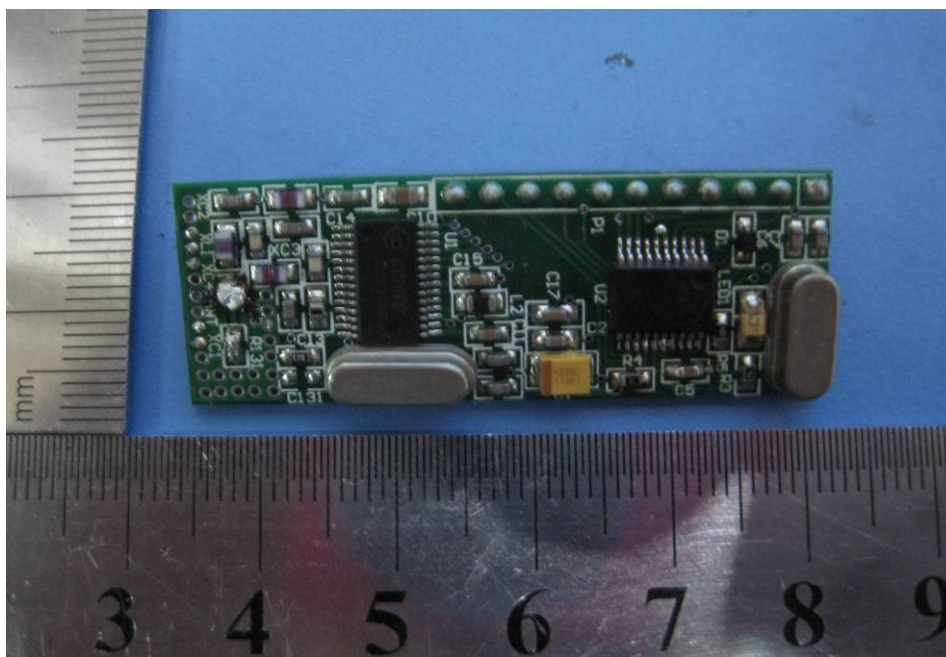
12.6 PCB2-Front View



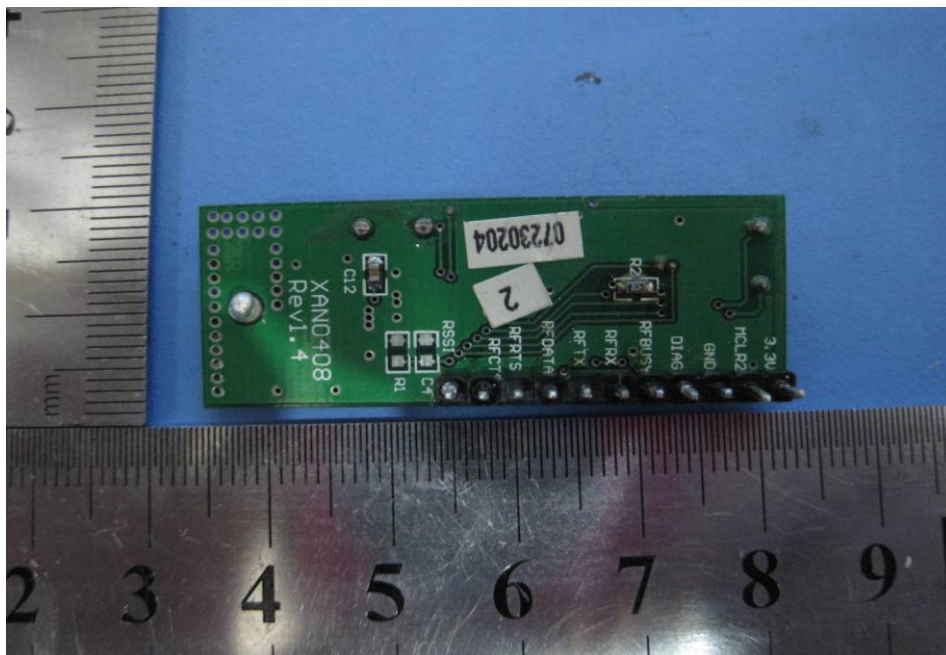
12.7 PCB2-Back View



12.8 PCB3-Front View



12.9 PCB3-Back View



13 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 Label Location

