

APPLICATION CERTIFICATION FCC Part 15C  
On Behalf of  
HONG KONG NATURAL SOUND ELECTRONICS LIMITED

MID  
Model No.:PC436, PLT4311

FCC ID: PWK-PC436

Prepared for : HONG KONG NATURAL SOUND ELECTRONICS  
LIMITED  
Address : FLAT/RM M 4/F CONTINENTAL MANSION, 300  
KING'S ROAD, HK

Prepared by : ACCURATE TECHNOLOGY CO., LTD  
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Report Number : ATE20130316  
Date of Test : Mar 5, 2013  
Date of Report : Mar 5- Mar 12, 2013

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## Test Report Certification

Applicant : HONG KONG NATURAL SOUND ELECTRONICS LIMITED  
Manufacturer : ShenZhen Natural Sound Electronics Co., Ltd  
EUT Description : MID  
(A) MODEL NO.: PC436, PLT4311  
(B) SERIAL NO.: N/A  
(C) POWER SUPPLY: DC 3.7V (Li-polymer battery) & DC 5V (USB input)

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247**  
**ANSI C63.4: 2009**  
**KDB 558074 D01 DTS Meas Guidance v02**

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 5- Mar 12, 2013

Prepared by : Terry. Yang  
(Engineer)

Approved & Authorized Signer : Ken  
(Manager)

# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

EUT	:	MID
Model Number	:	PC436, PLT4311
		Note: These models are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement. So we prepare PC436 for test only
Frequency Range	:	802.11b/g/n(20MHz): 2412-2462MHz 802.11n(40MHz): 2422-2452MHz
Number of Channels	:	802.11b/g/n (20MHz):11 802.11n (40MHz): 7
Antenna Gain	:	0dBi
Power Supply	:	DC 3.7V (Li-polymer battery) & DC 5V (USB input)
Data Rate	:	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: up to 150Mbps
Applicant	:	HONG KONG NATURAL SOUND ELECTRONICS LIMITED
Address	:	FLAT/RM M 4/F CONTINENTAL MANSION, 300 KING'S ROAD, HK
Manufacturer	:	ShenZhen Natural Sound Electronics Co., Ltd
Address	:	4 th building, Xinyuan industrial zone, Gushu village, Bao`an district, Shenzhen, China
Date of sample received	:	Mar 5, 2013
Date of Test	:	Mar 5- Mar 12, 2013

## 1.2. Carrier Frequency of Channels

802.11b, 802.11g, 802.11n (20MHz)

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	---	---

802.11n (40MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
03	2422	09	2452
04	2427	---	---
05	2432	---	---
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

**802.11n (20MHz) Transmitting mode**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

**802.11n (40MHz) Transmitting mode**

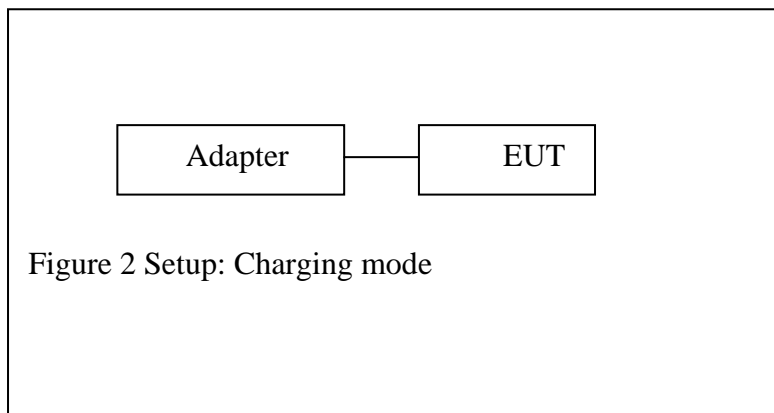
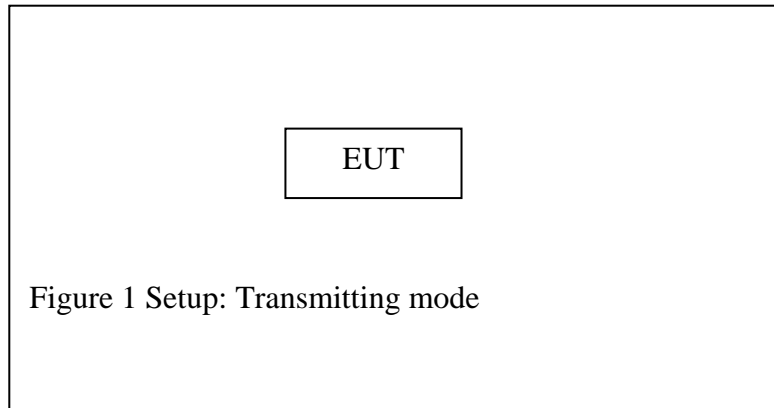
Low Channel: 2422MHz

Middle Channel: 2437MHz

High Channel: 2452MHz

**Charging**

### 3.2.Configuration and peripherals

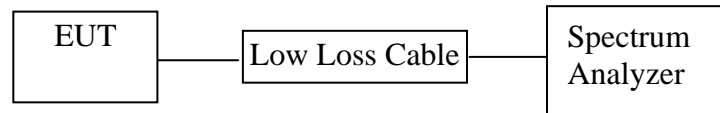


#### 4. TEST PROCEDURES AND RESULTS

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Result</b>
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: MID)

### 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. MID (EUT)

Model Number : PC436  
 Serial Number : N/A  
 Manufacturer : Shenzhen Natural Sound Electronics 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 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz 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 300 kHz and VBW to 1000 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:	<u>Mar 6, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Ricky</u>

The test was performed with 802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	10.12	> 0.5MHz
Middle	2437	10.12	> 0.5MHz
High	2462	10.12	> 0.5MHz

The test was performed with 802.11g

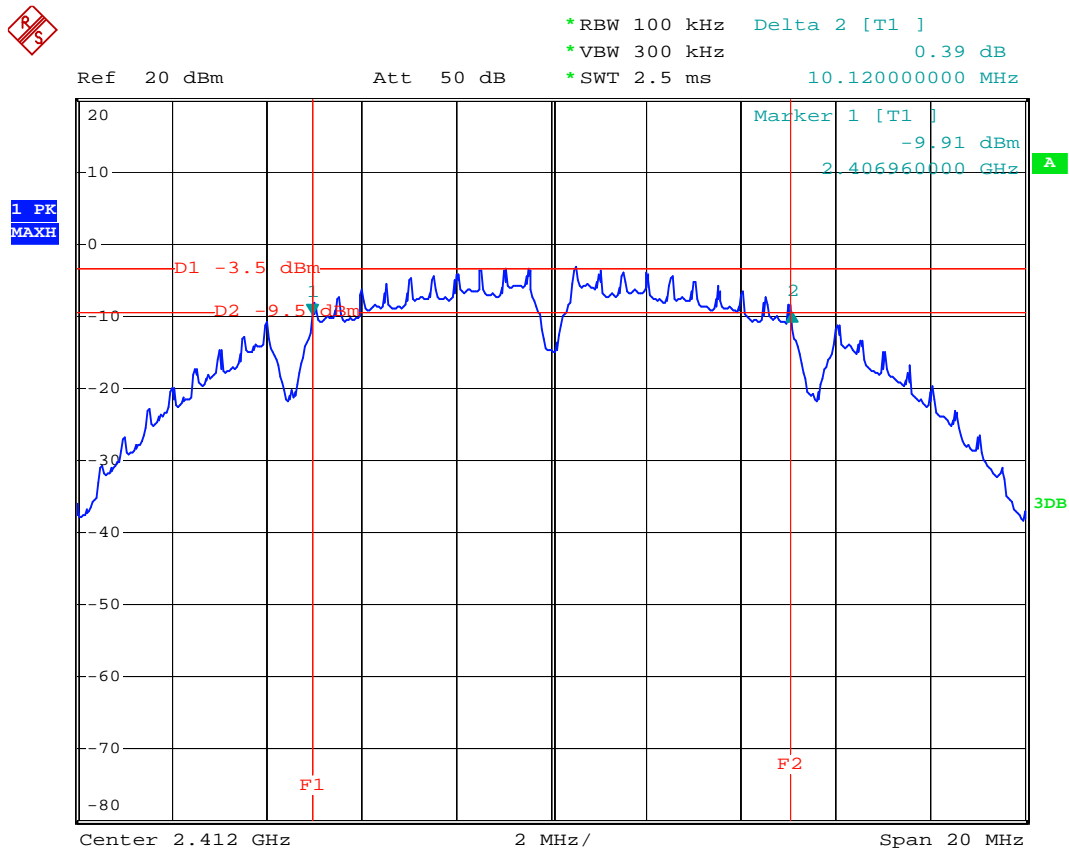
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.40	> 0.5MHz
Middle	2437	16.40	> 0.5MHz
High	2462	16.40	> 0.5MHz

The test was performed with 802.11n (Bandwidth: 20 MHz)			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	17.60	> 0.5MHz
Middle	2437	17.60	> 0.5MHz
High	2462	17.60	> 0.5MHz

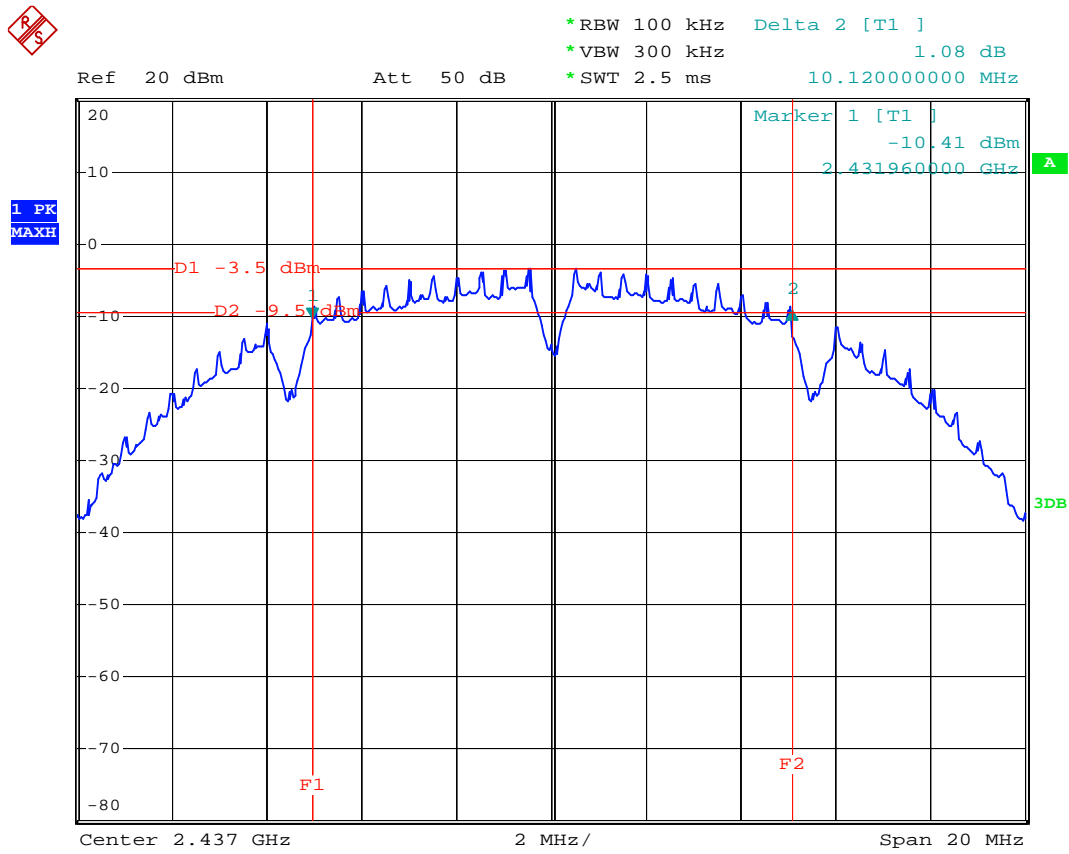
The test was performed with 802.11n (Bandwidth: 40 MHz)			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2422	35.28	> 0.5MHz
Middle	2437	35.36	> 0.5MHz
High	2452	35.28	> 0.5MHz

The spectrum analyzer plots are attached as below.

### 802.11b Channel Low 2412MHz

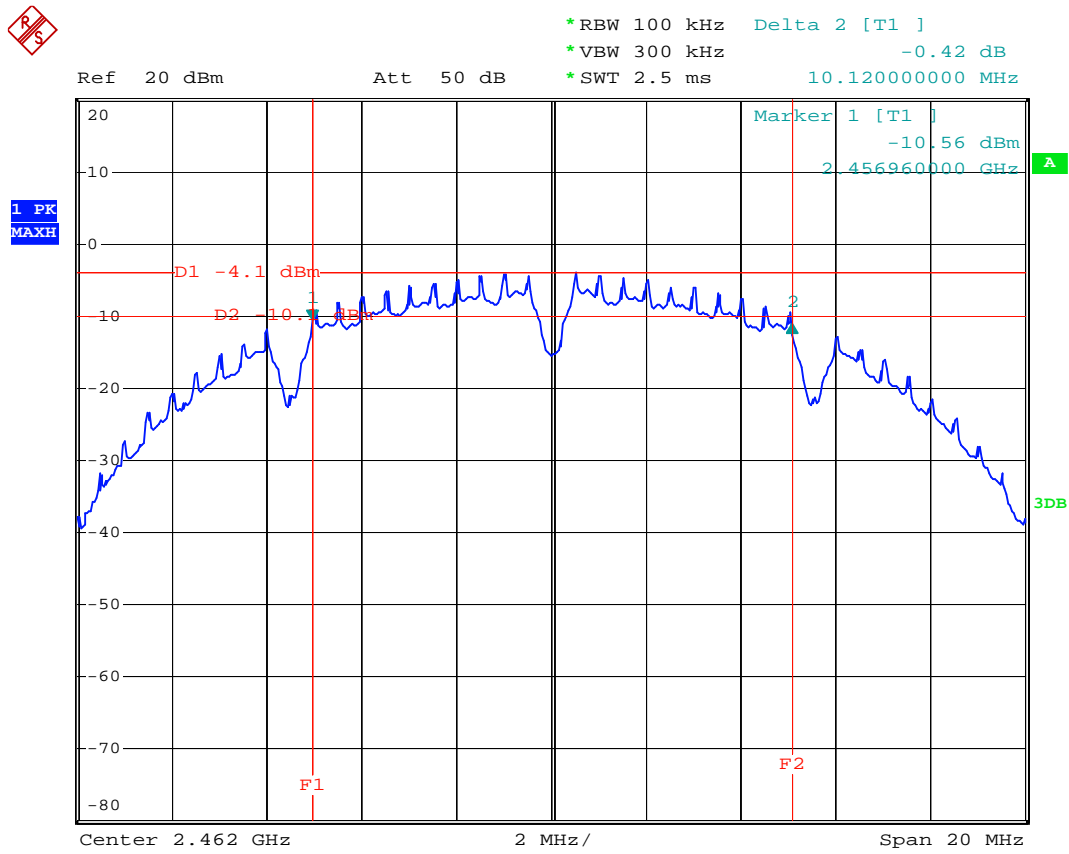


### 802.11b Channel Middle 2437MHz

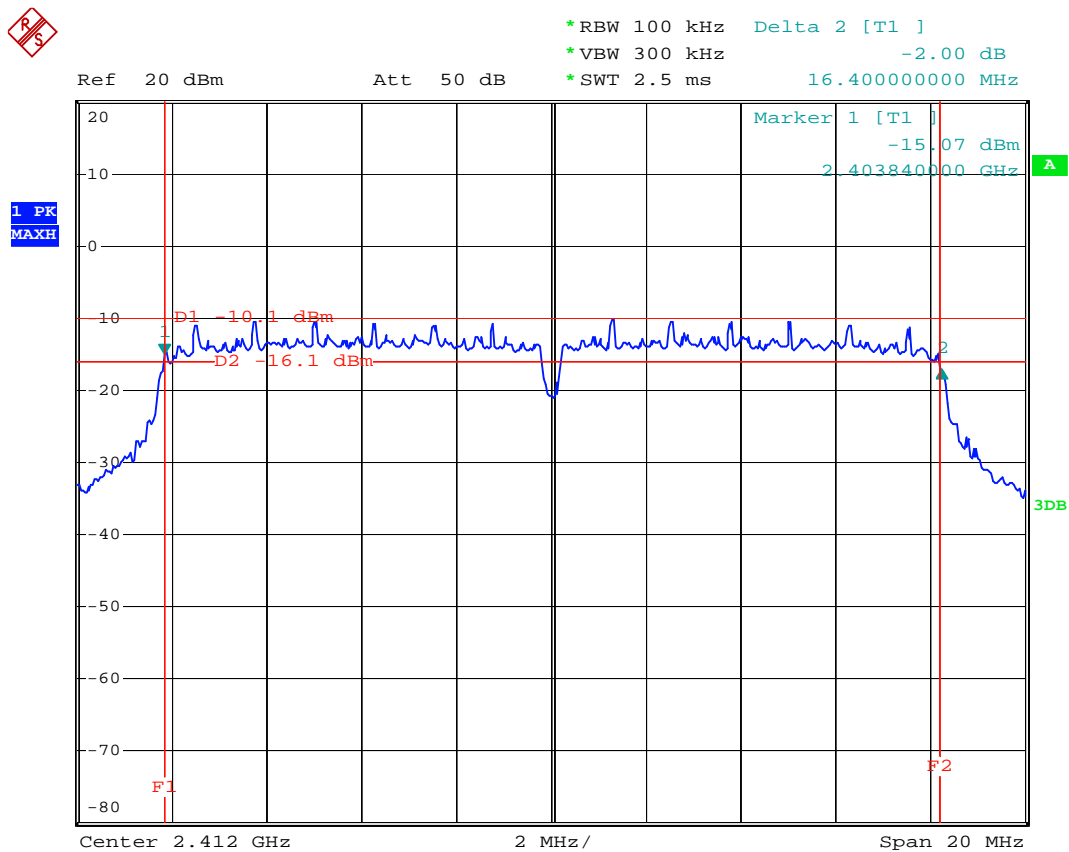




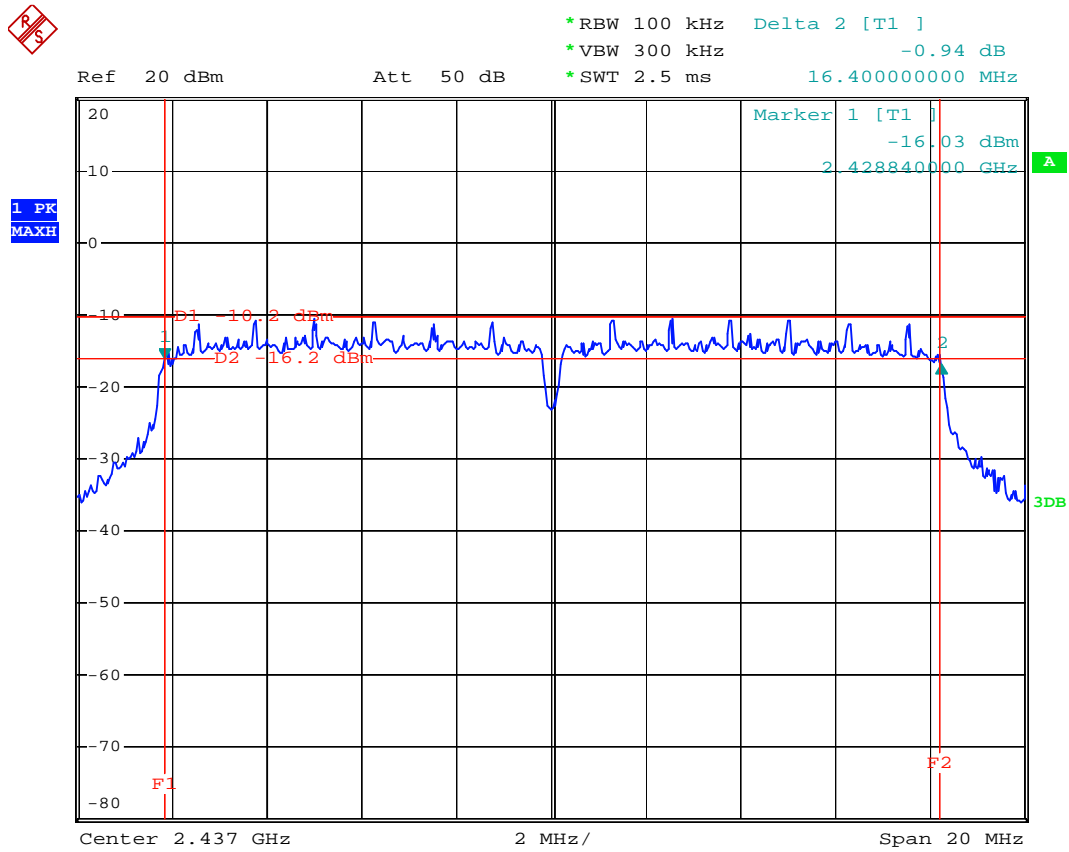
### 802.11b Channel High 2462MHz



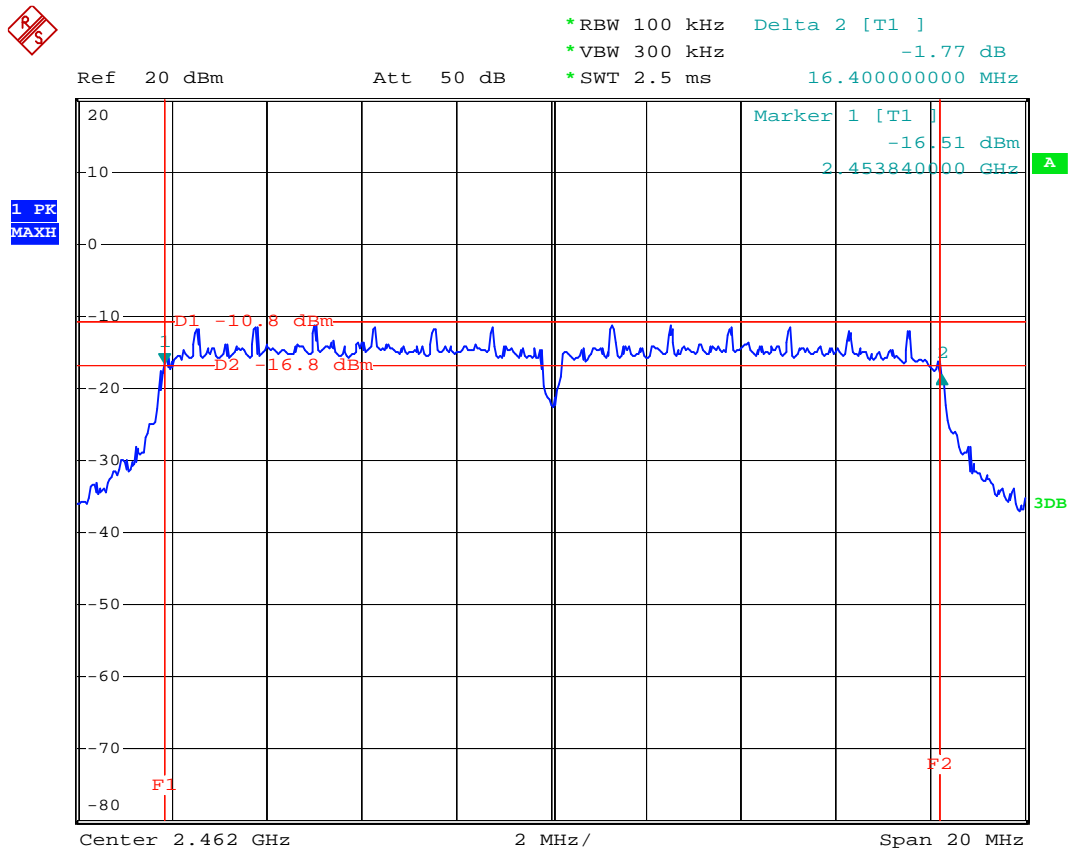
### 802.11g Channel Low 2412MHz



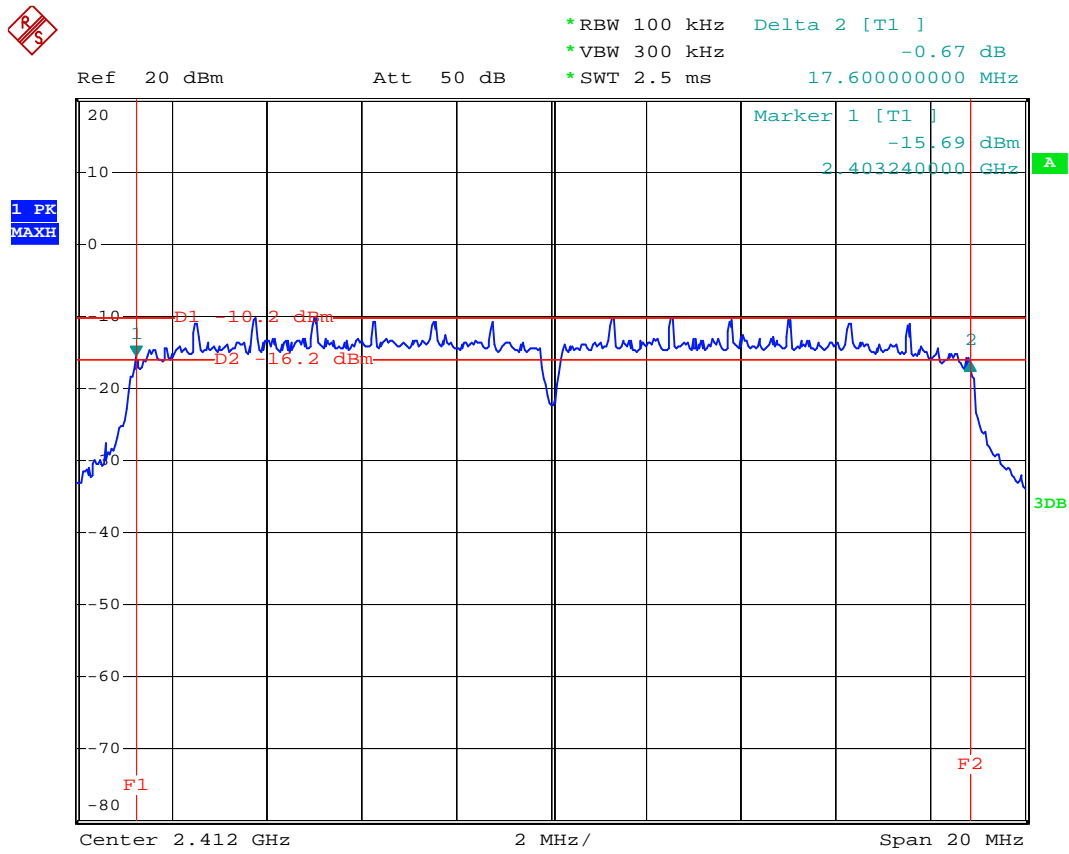
### 802.11g Channel Middle 2437MHz



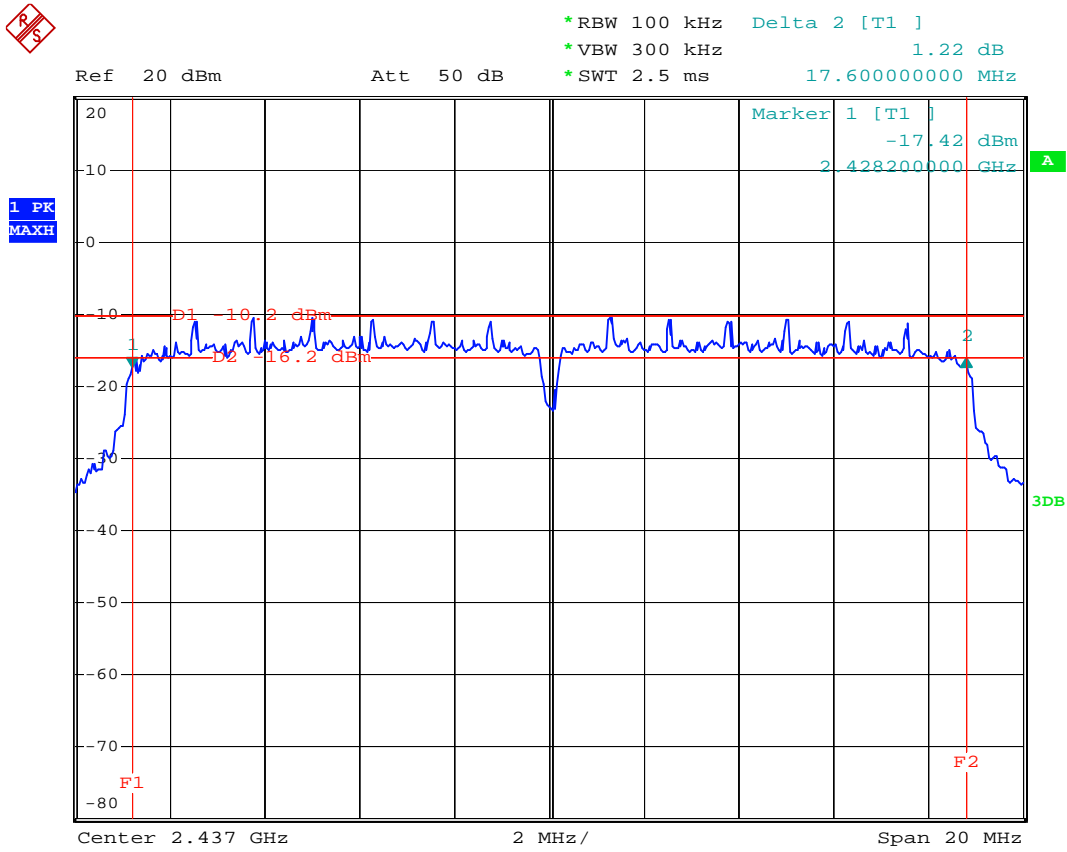
### 802.11g Channel High 2462MHz



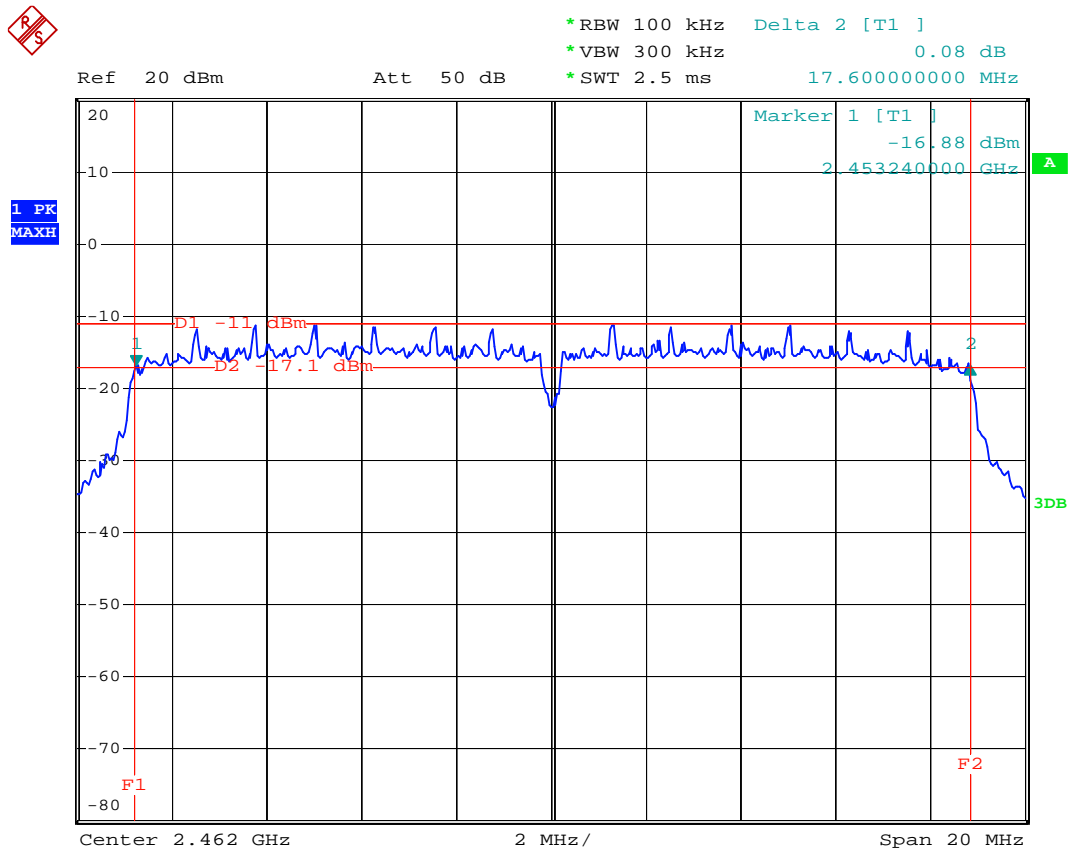
### 802.11n Channel Low 2412MHz (20MHz)



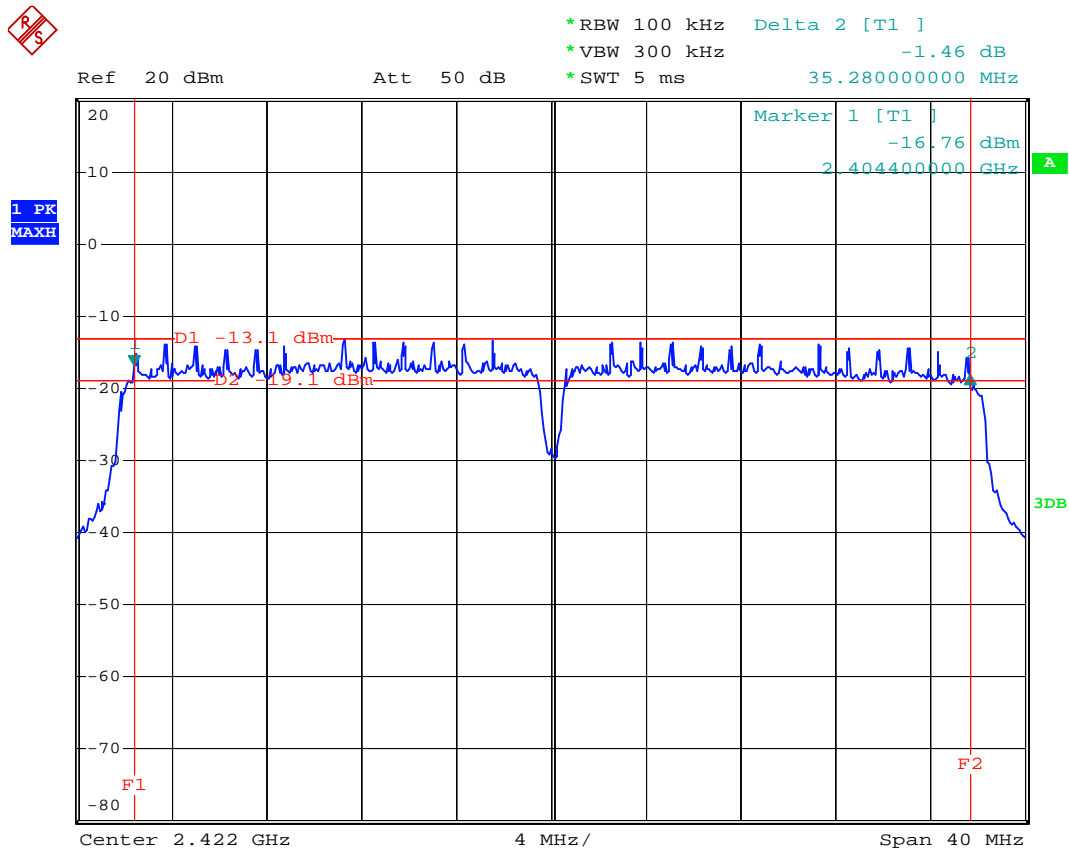
### 802.11n Channel Middle 2437MHz (20MHz)



### 802.11n Channel High 2462MHz (20MHz)

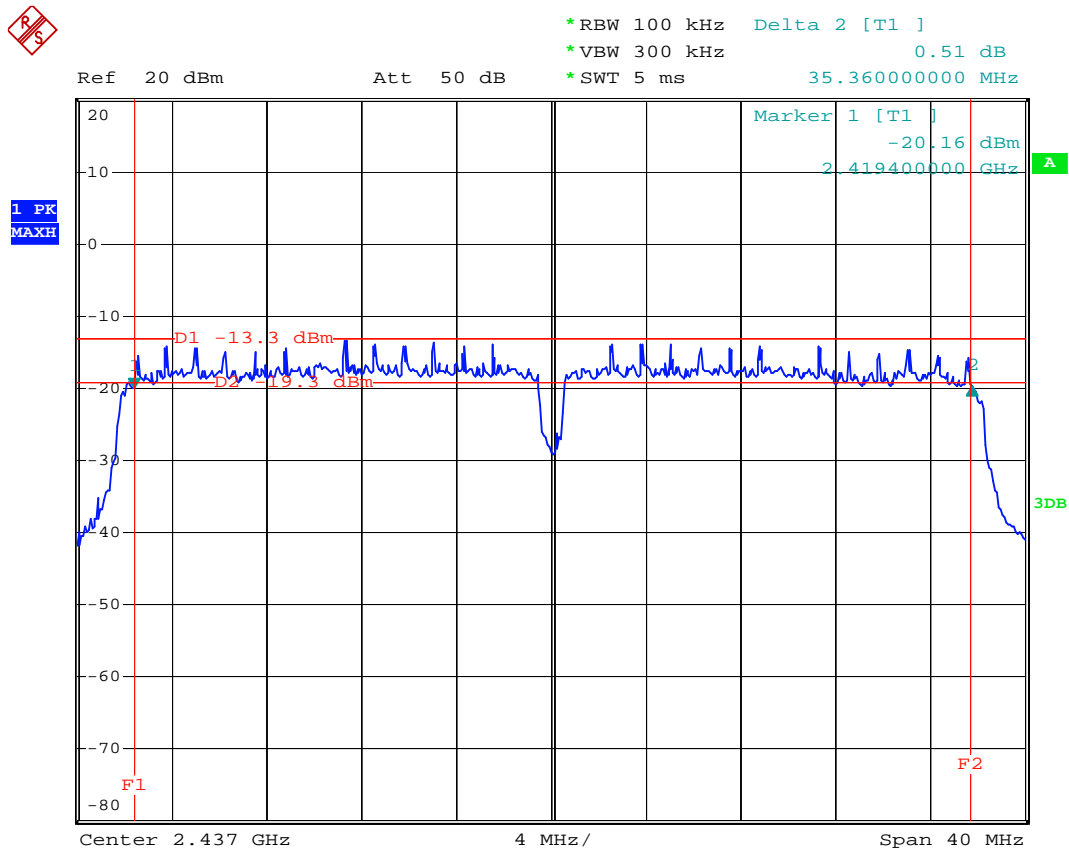


### 802.11n Channel Low 2422MHz (40MHz)

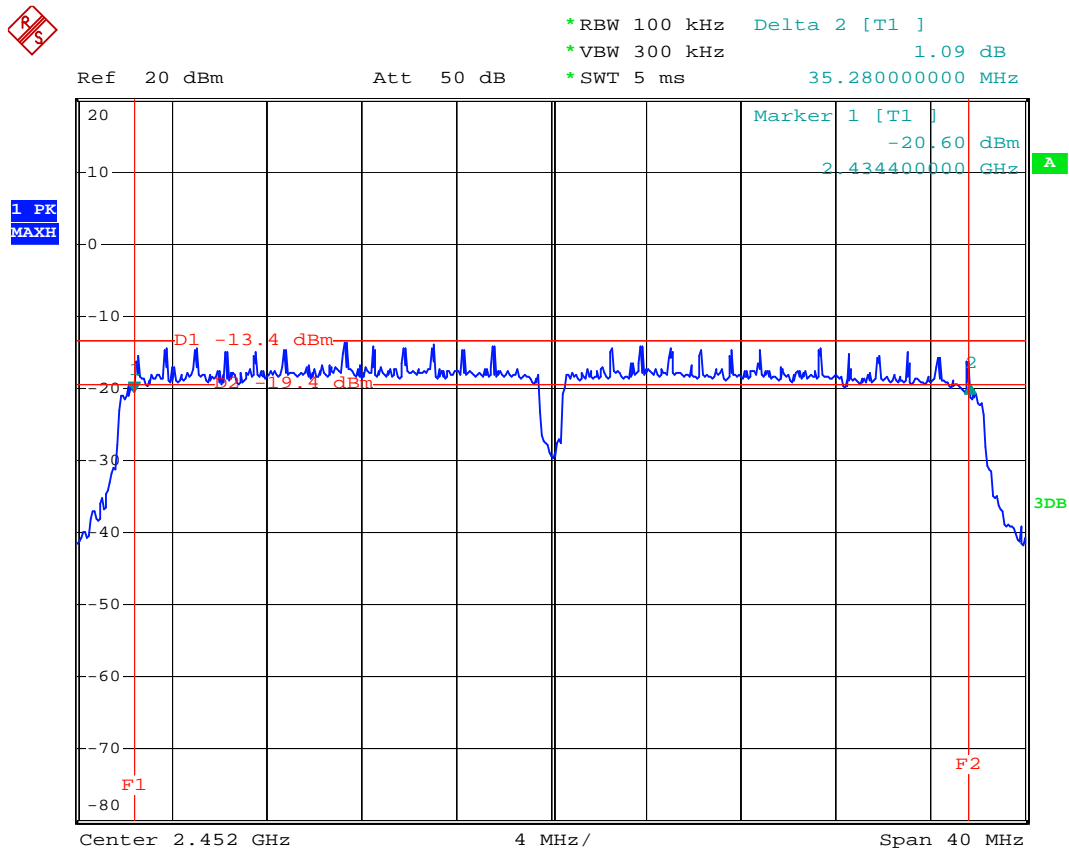




### 802.11n Channel Middle 2437MHz (40MHz)

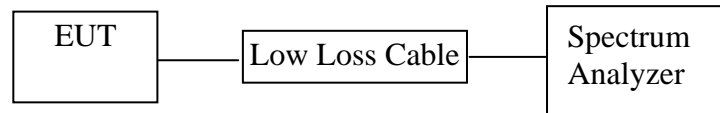


### 802.11n Channel High 2452MHz (40MHz)



## 6. MAXIMUM PEAK OUTPUT POWER

### 6.1. Block Diagram of Test Setup



(EUT: MID)

### 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. MID(EUT)

Model Number : PC436  
 Serial Number : N/A  
 Manufacturer : ShenZhen Natural Sound Electronics 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 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

## 6.5. Test Procedure

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

6.5.2. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.

6.5.3. Measurement the maximum peak output power.

## 6.6. Test Result

**PASS.**

Date of Test:	<u>Mar 6, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Allen</u>

The test was performed with 802.11b				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	8.80	7.59	30 dBm / 1 W
Middle	2437	8.44	6.98	30 dBm / 1 W
High	2462	7.72	5.92	30 dBm / 1 W

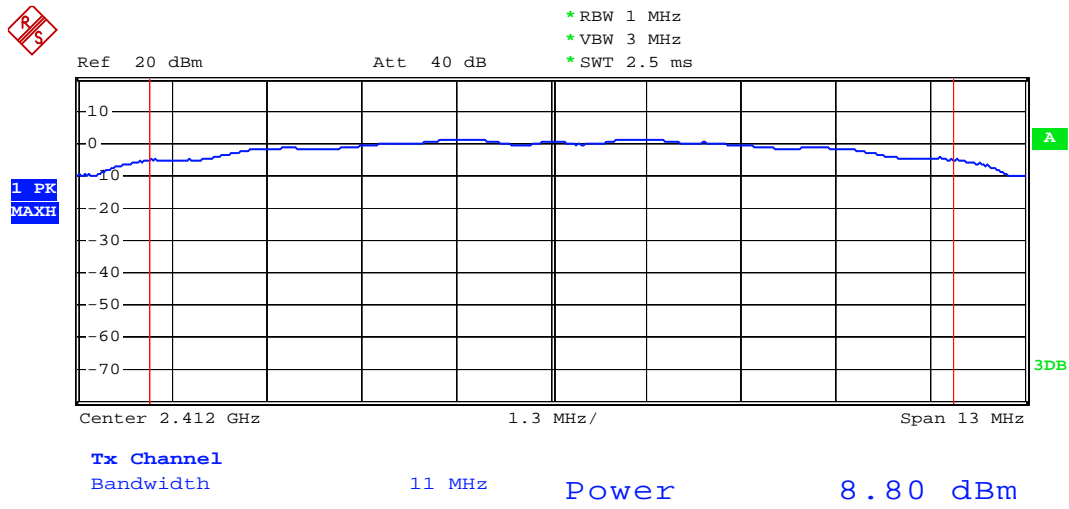
The test was performed with 802.11g				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	9.54	8.99	30 dBm / 1 W
Middle	2437	9.16	8.24	30 dBm / 1 W
High	2462	8.53	7.13	30 dBm / 1 W

The test was performed with 802.11n (20MHz)				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	9.50	8.91	30 dBm / 1 W
Middle	2437	9.18	8.28	30 dBm / 1 W
High	2462	8.81	7.60	30 dBm / 1 W

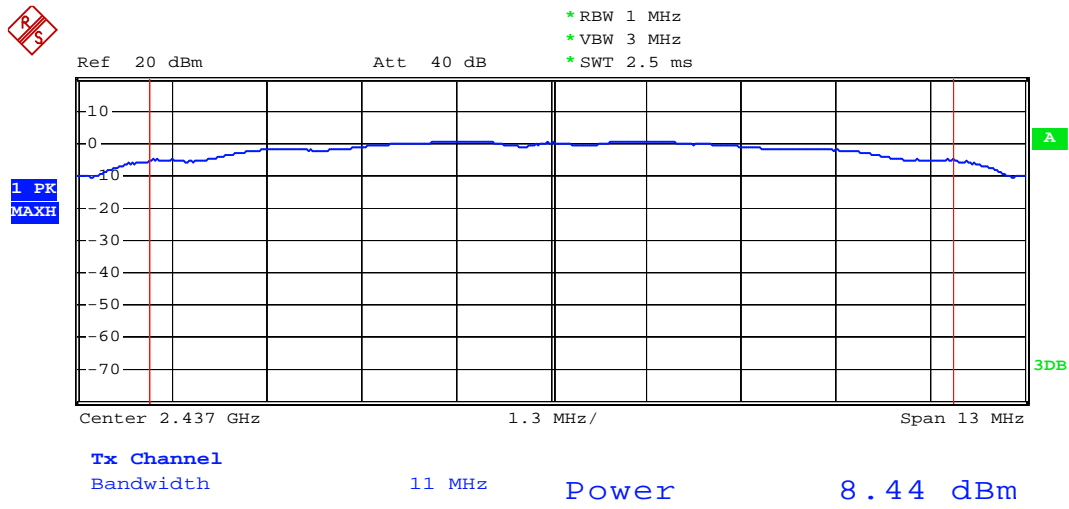
The test was performed with 802.11n (40MHz)				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2422	9.07	8.07	30 dBm / 1 W
Middle	2437	8.76	7.52	30 dBm / 1 W
High	2452	8.37	6.87	30 dBm / 1 W

The spectrum analyzer plots are attached as below.

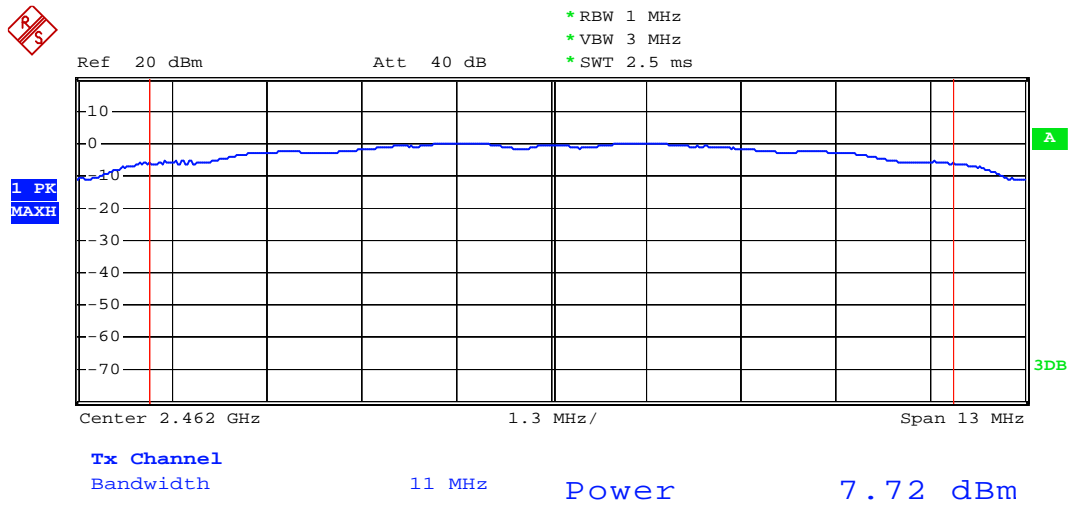
### 802.11b Channel Low 2412MHz



### 802.11b Channel Middle 2437MHz

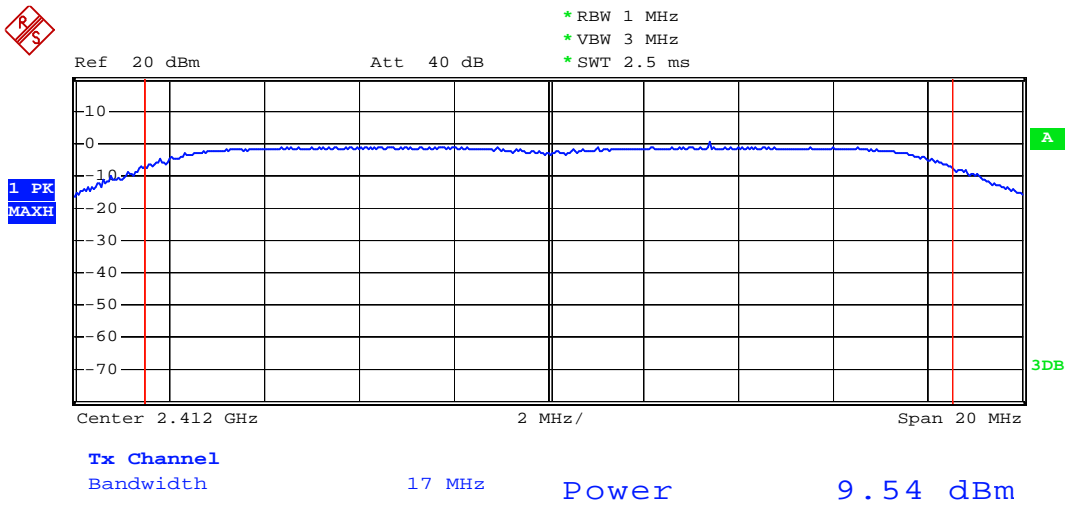


### 802.11b Channel High 2462MHz

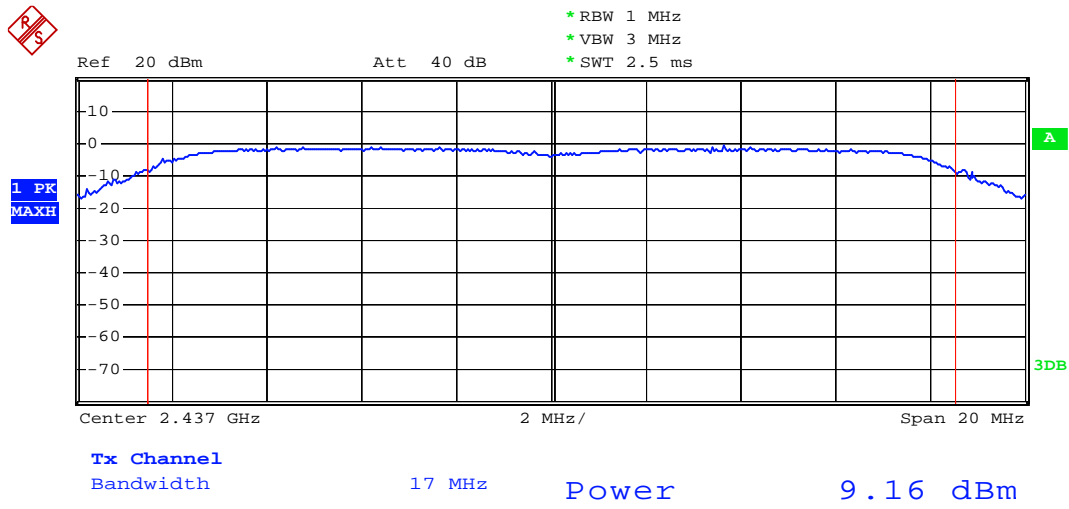




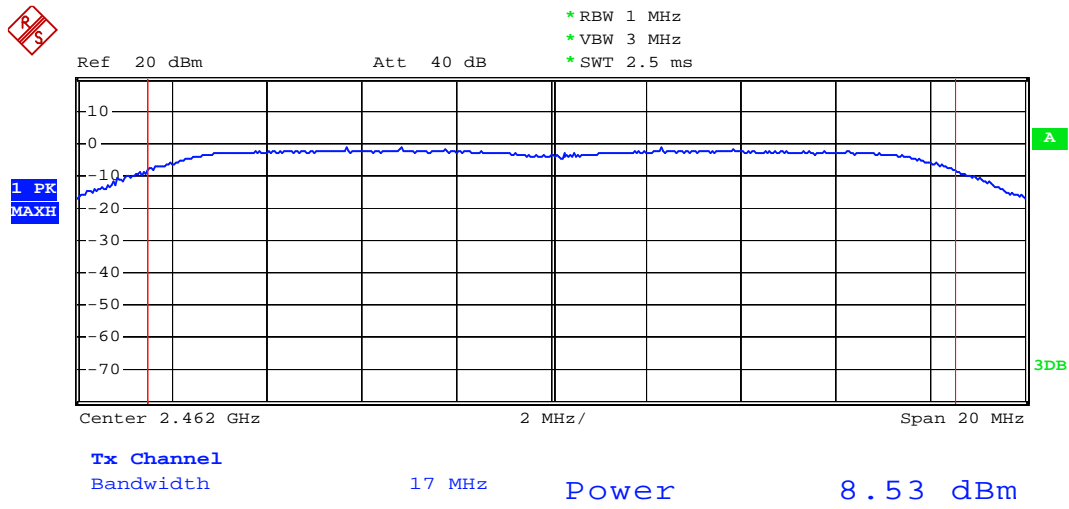
### 802.11g Channel Low 2412MHz



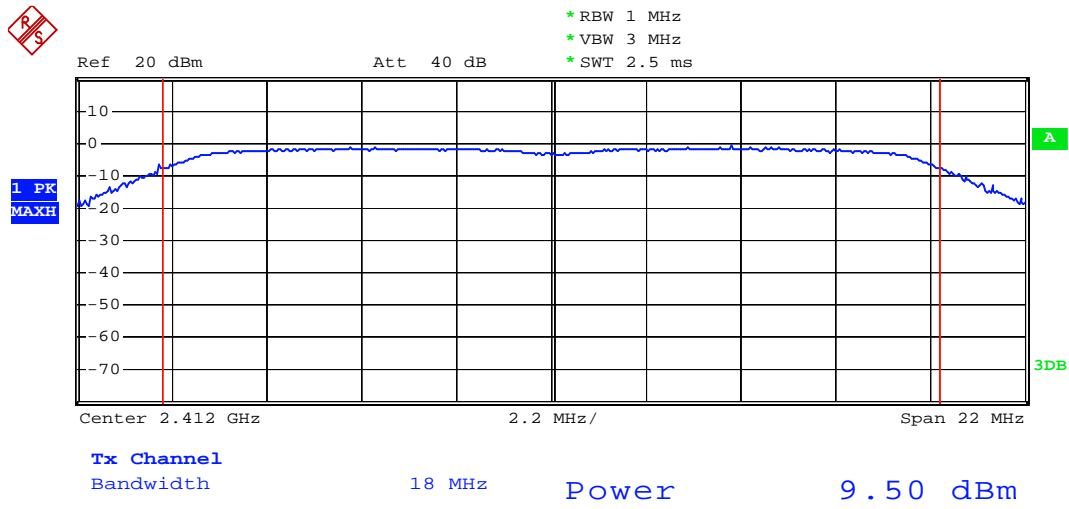
### 802.11g Channel Middle 2437MHz



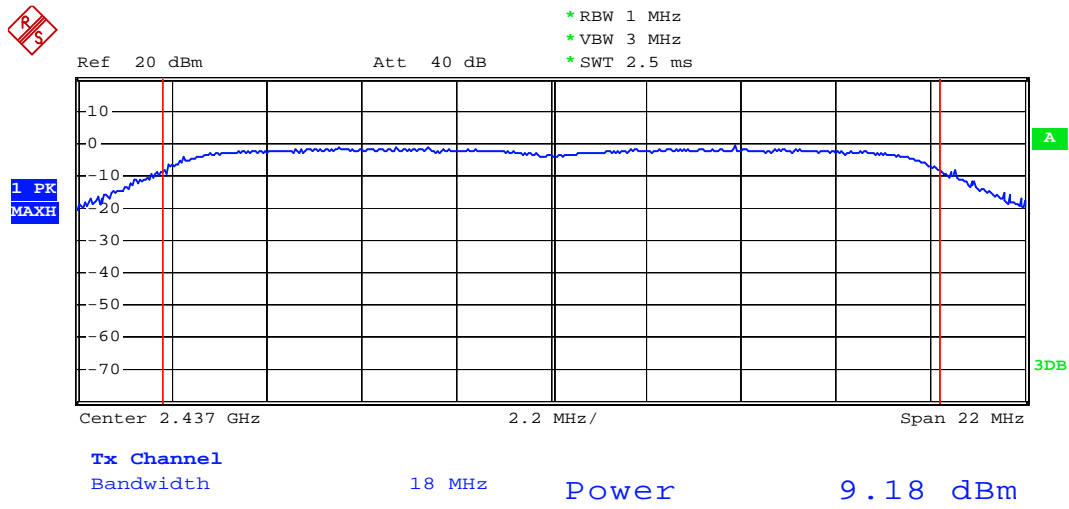
### 802.11g Channel High 2462MHz



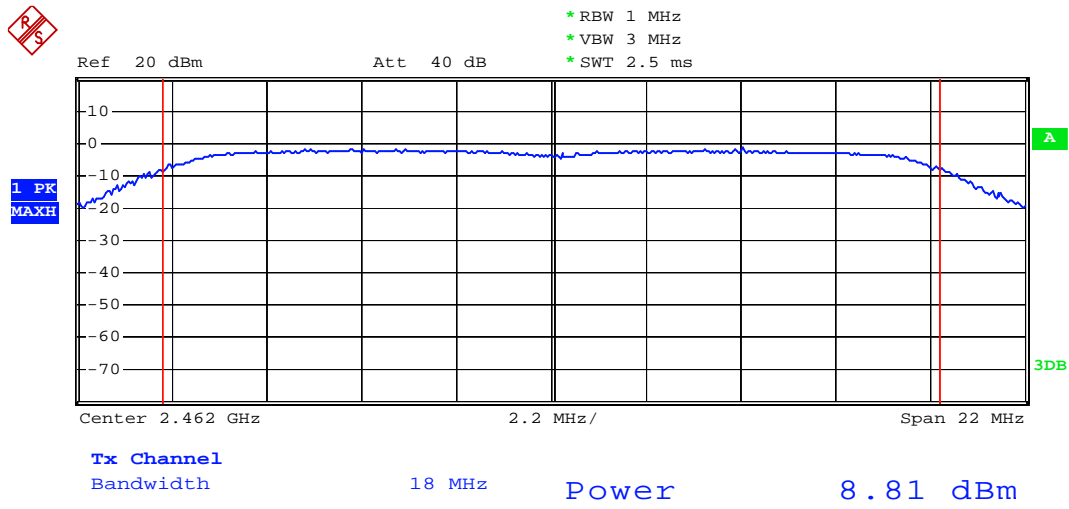
### 802.11n Channel Low 2412MHz (20MHz)



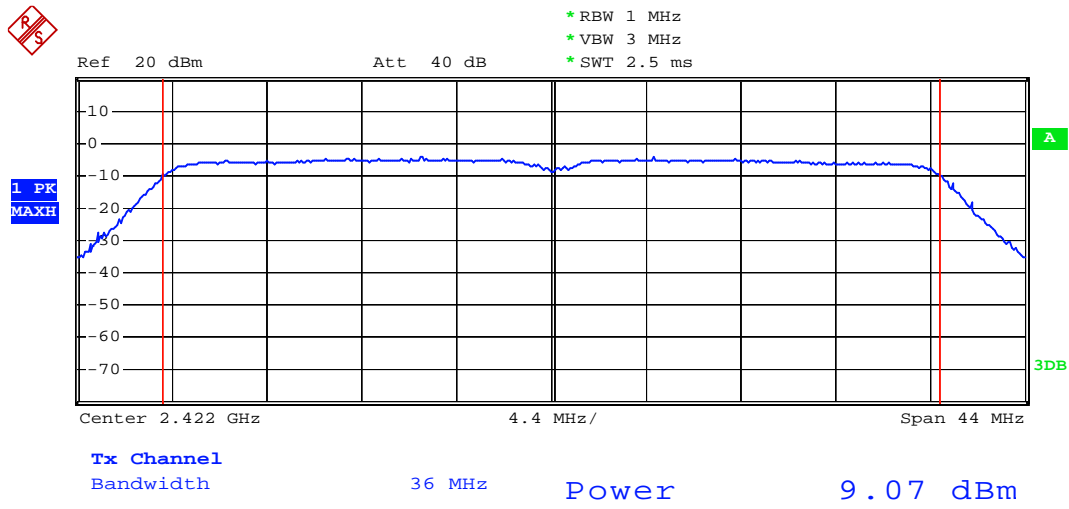
### 802.11n Channel Middle 2437MHz (20MHz)



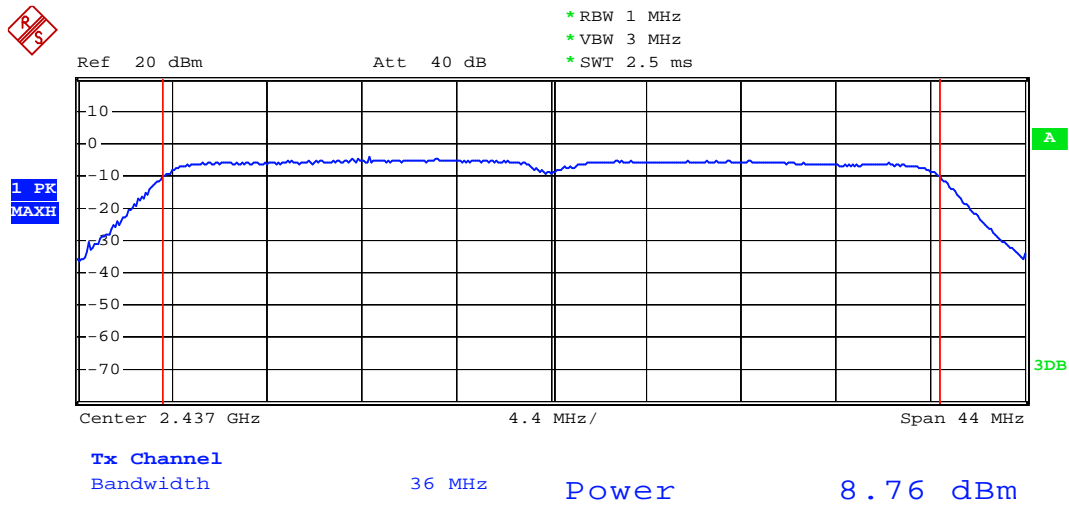
### 802.11n Channel High 2462MHz (20MHz)



### 802.11n Channel Low 2422MHz (40MHz)

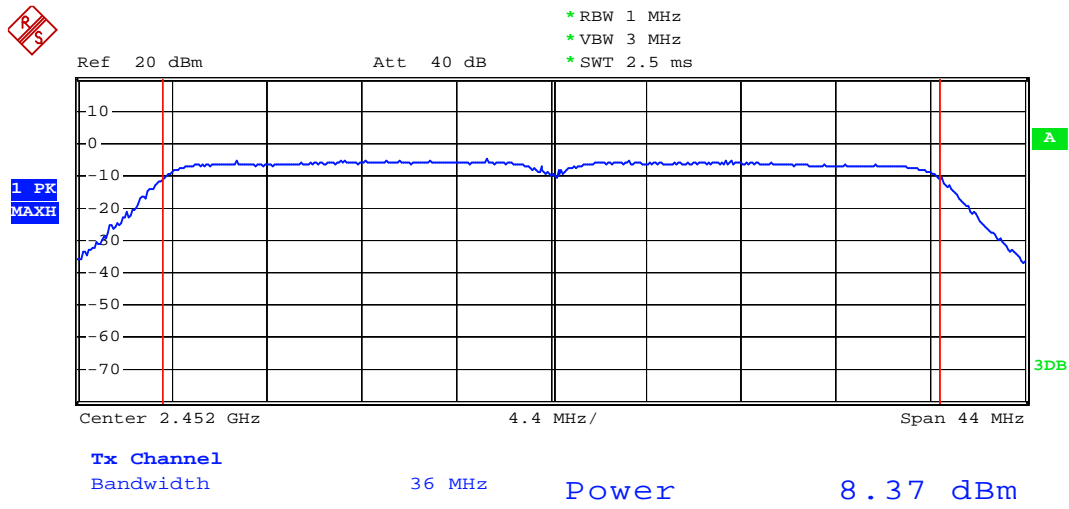


### 802.11n Channel Middle 2437MHz (40MHz)





### 802.11n Channel High 2452MHz (40MHz)



## 7. POWER SPECTRAL DENSITY MEASUREMENT

### 7.1. Block Diagram of Test Setup



(EUT: MID)

### 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. MID (EUT)

Model Number	:	PC436
Serial Number	:	N/A
Manufacturer	:	ShenZhen Natural Sound Electronics 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 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

## 7.5. Test Procedure

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

7.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz, sweep time = auto, span=5%-30% greater than the EBW.

7.5.3. Measurement the maximum power spectral density.

## 7.6. Test Result

**PASS.**

Date of Test:	<u>Mar 6, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Allen</u>

The test was performed with 802.11b			
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limits (dBm/3kHz)
Low	2412	-17.98	8 dBm
Middle	2437	-18.97	8 dBm
High	2462	-18.64	8 dBm

The test was performed with 802.11G			
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limits (dBm/3kHz)
Low	2412	-25.22	8 dBm
Middle	2437	-24.30	8 dBm
High	2462	-24.63	8 dBm

The test was performed with 802.11n (20MHz)

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limits (dBm/ 3kHz)
Low	2412	-23.84	8 dBm
Middle	2437	-24.79	8 dBm
High	2462	-25.42	8 dBm

The test was performed with 802.11n (40MHz)

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limits (dBm)
Low	2422	-28.36	8 dBm
Middle	2437	-27.20	8 dBm
High	2452	-28.69	8 dBm

The spectrum analyzer plots are attached as below.

### 802.11b Channel Low 2412MHz

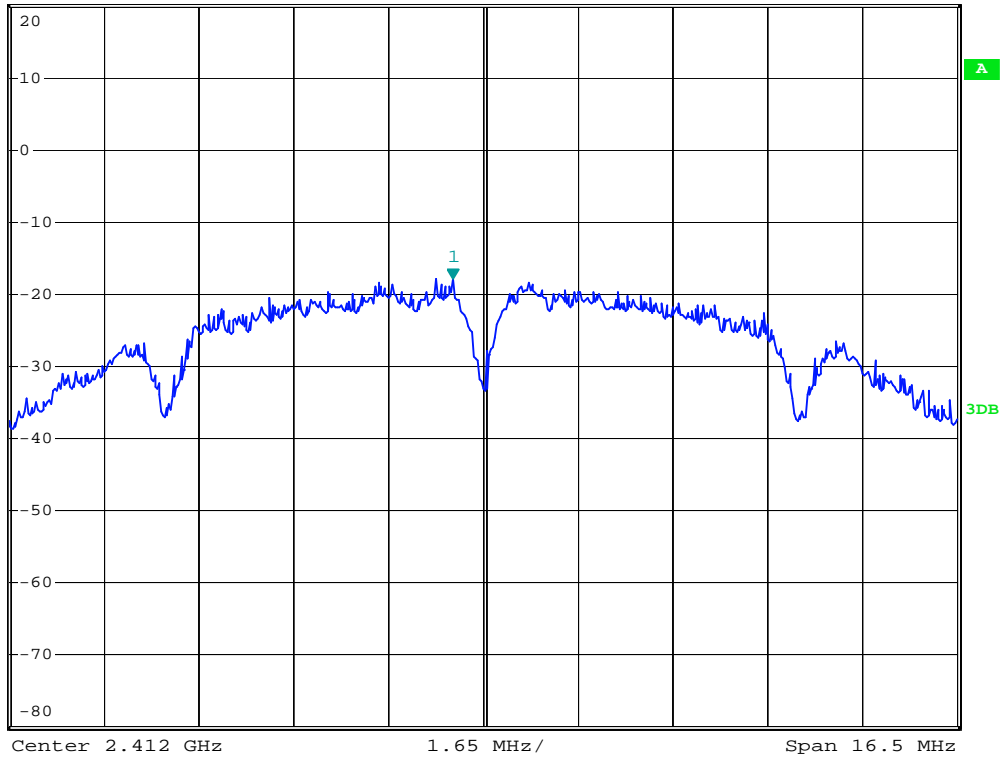


\*RBW 3 kHz      Marker 1 [T1 ]  
\*VBW 10 kHz      -17.98 dBm  
SWT 1.85 s      2.411472000 GHz

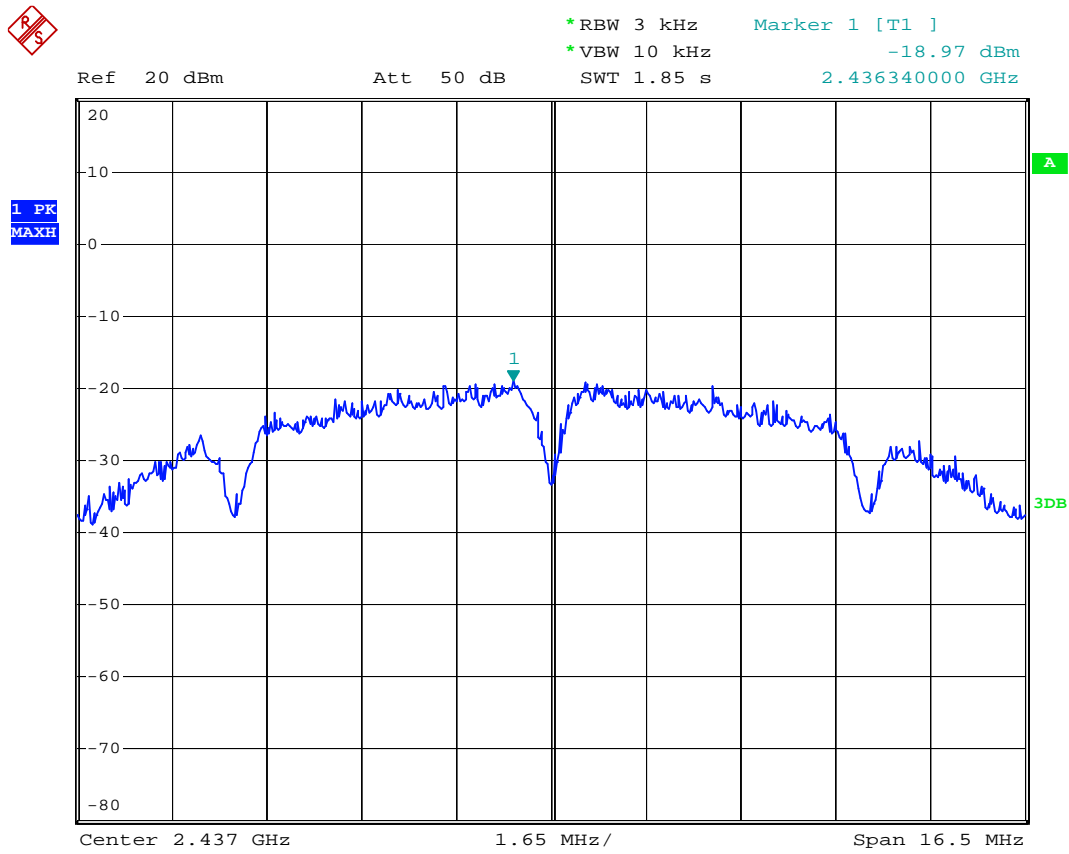
Ref 20 dBm

Att 50 dB

1 PK  
MAXH



### 802.11b Channel Middle 2437MHz



### 802.11b Channel High 2462MHz

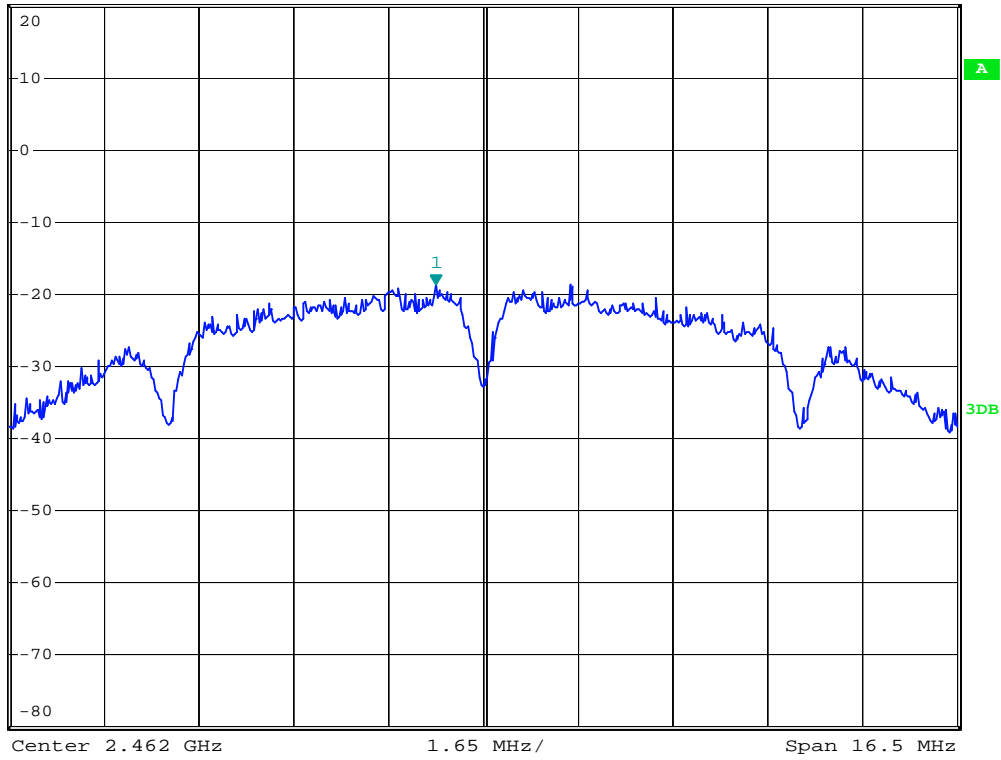


\*RBW 3 kHz      Marker 1 [T1 ]  
\*VBW 10 kHz      -18.64 dBm  
SWT 1.85 s      2.461175000 GHz

Ref 20 dBm

Att 50 dB

1 PK  
MAXH



### 802.11g Channel Low 2412MHz

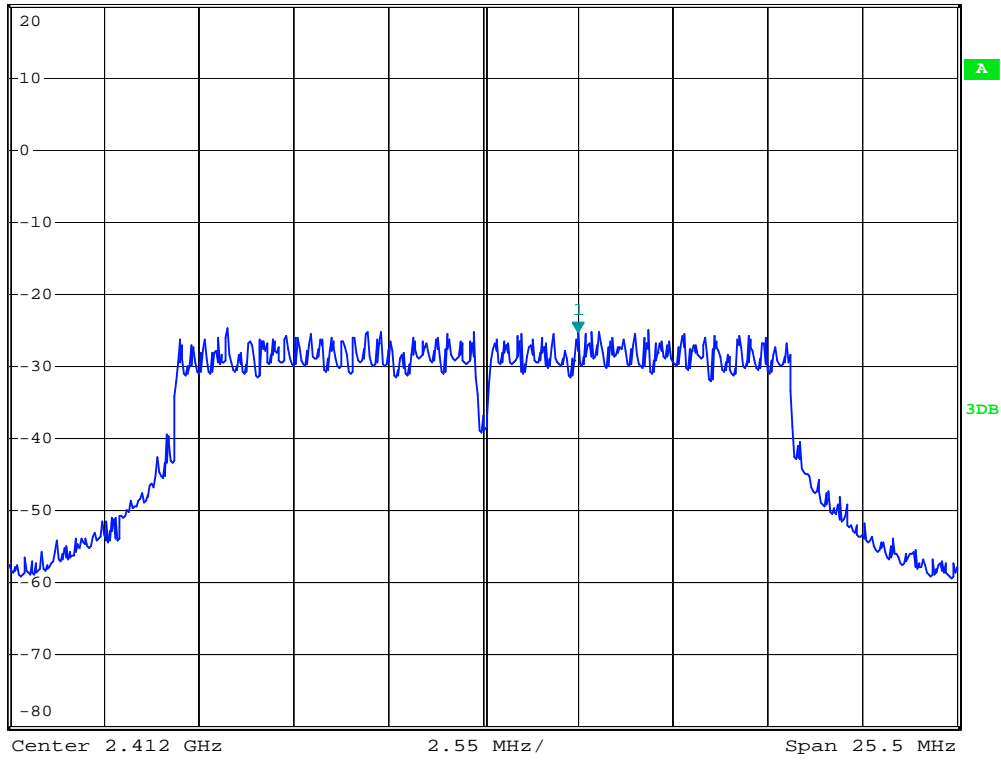


\*RBW 3 kHz      Marker 1 [T1 ]  
\*VBW 10 kHz      -25.22 dBm  
SWT 2.9 s      2.414550000 GHz

Ref 20 dBm

Att 50 dB

1 PK  
MAXH





### 802.11g Channel Middle 2437MHz

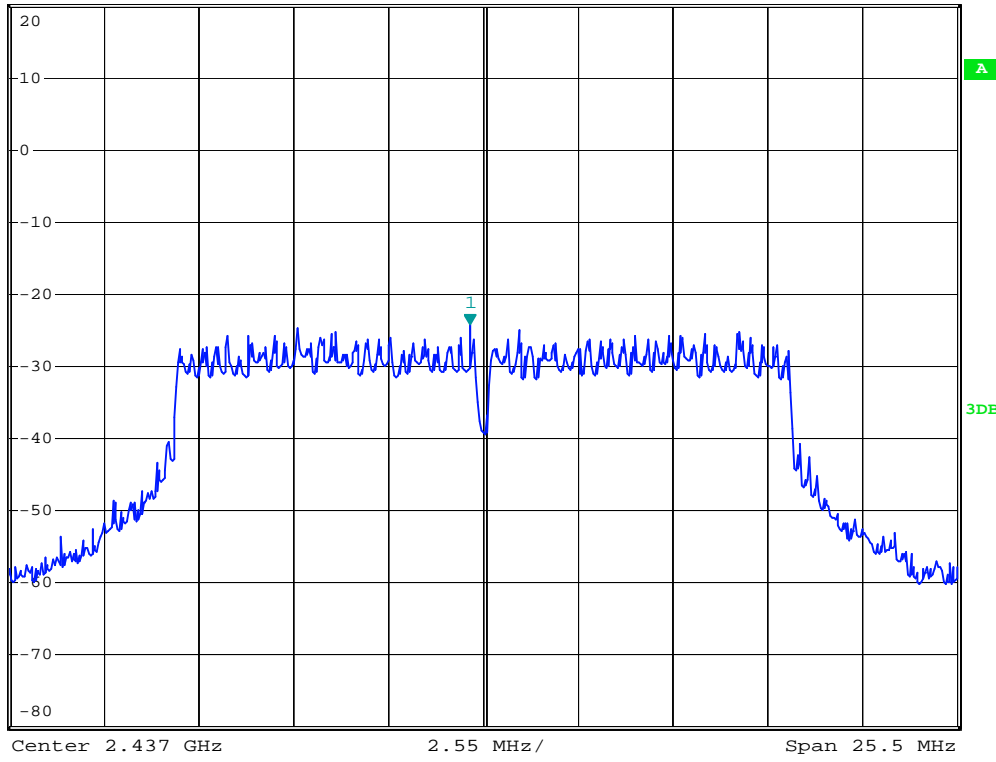


\*RBW 3 kHz      Marker 1 [T1 ]  
\*VBW 10 kHz      -24.30 dBm  
SWT 2.9 s      2.436643000 GHz

Ref 20 dBm

Att 50 dB

1 PK  
MAXH



### 802.11g Channel High 2462MHz

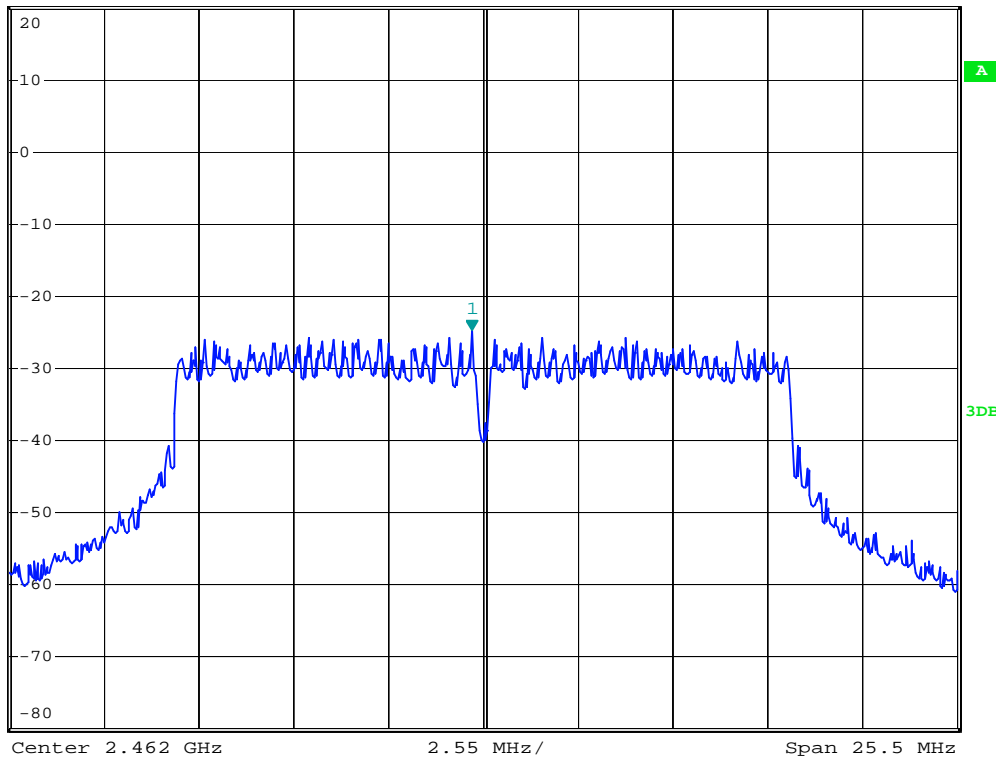


\*RBW 3 kHz      Marker 1 [T1 ]  
\*VBW 10 kHz      -24.63 dBm  
SWT 2.9 s      2.461694000 GHz

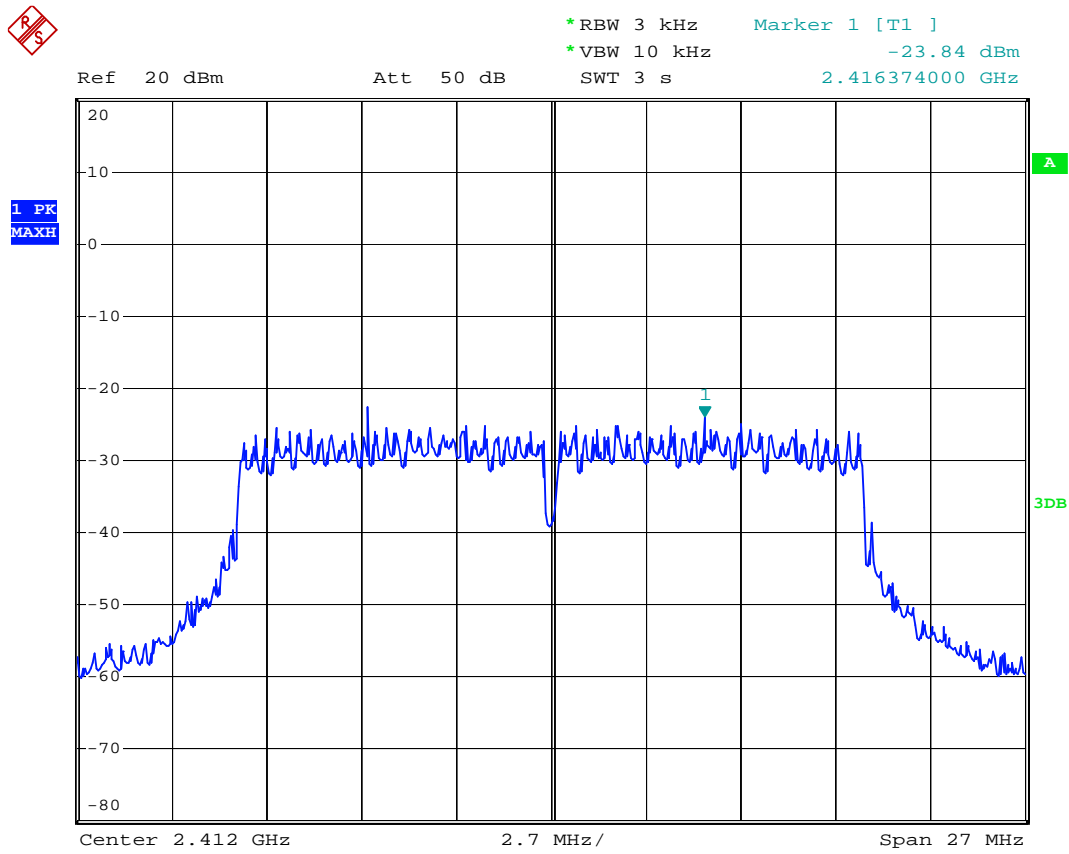
Ref 20 dBm

Att 50 dB

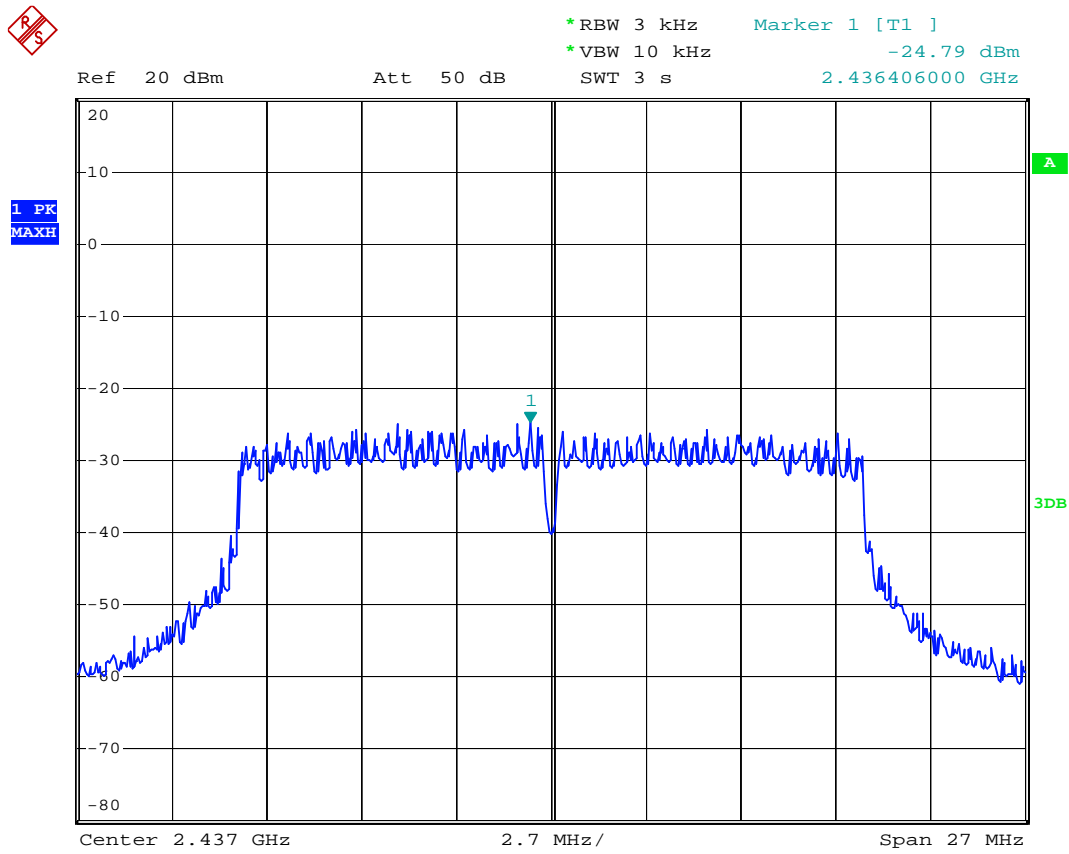
1 PK  
MAXH



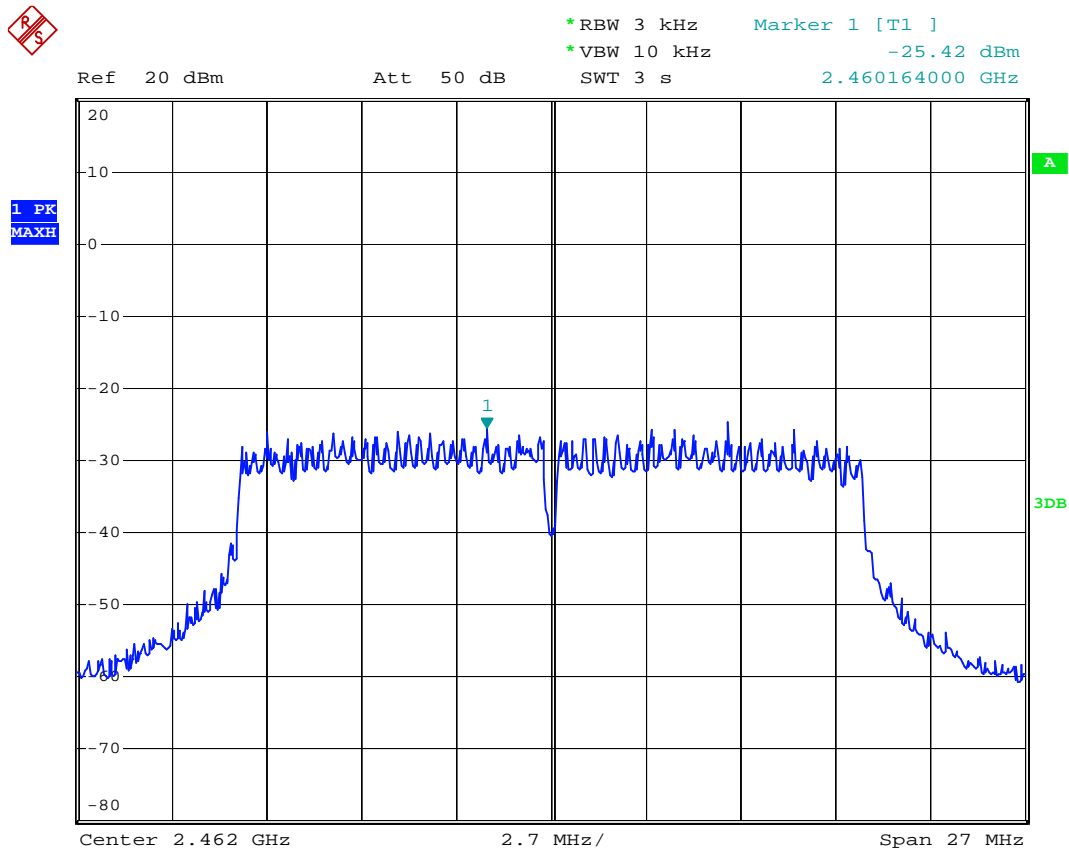
### 802.11n Channel Low 2412MHz (20MHz)



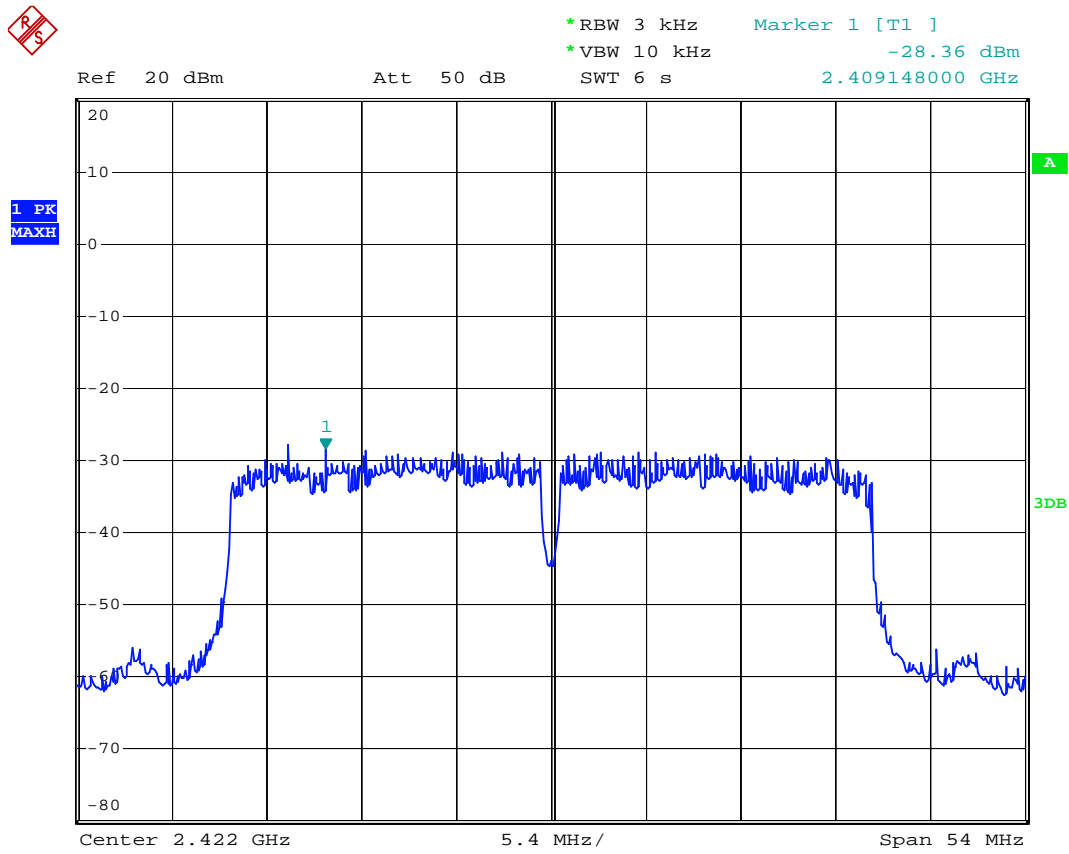
### 802.11n Channel Middle 2437MHz (20MHz)



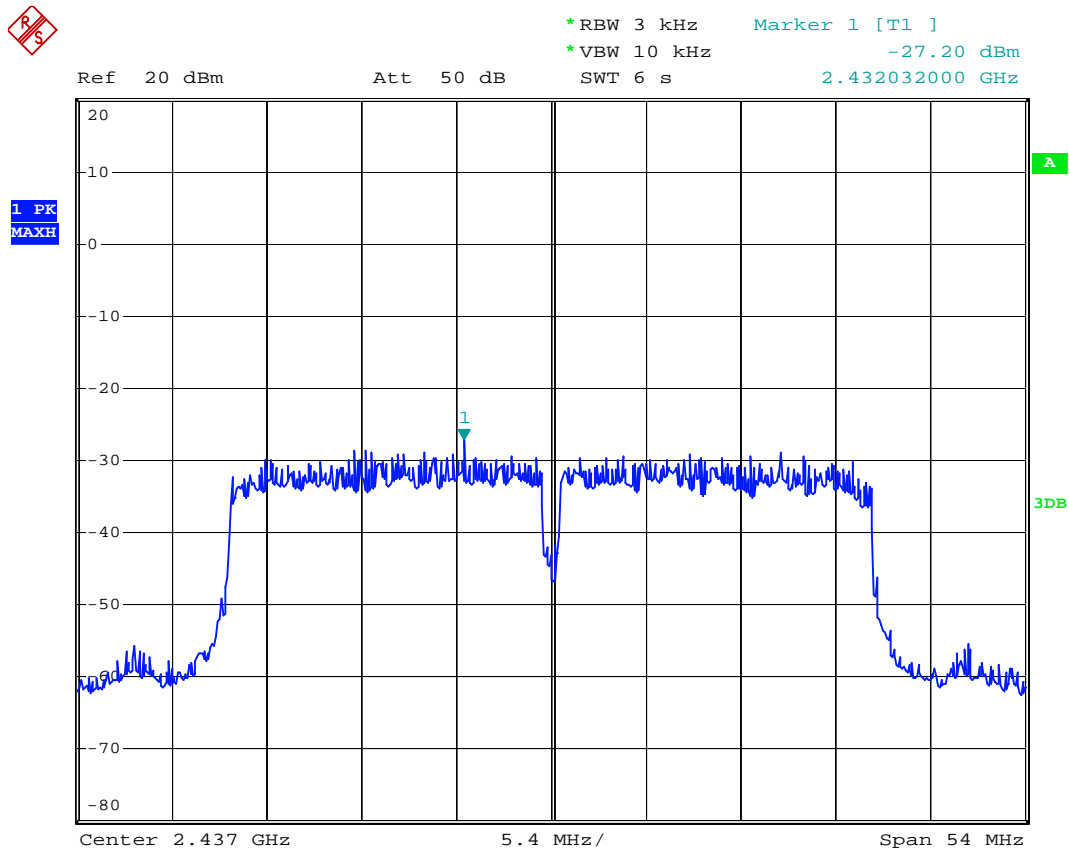
### 802.11n Channel High 2462MHz (20MHz)



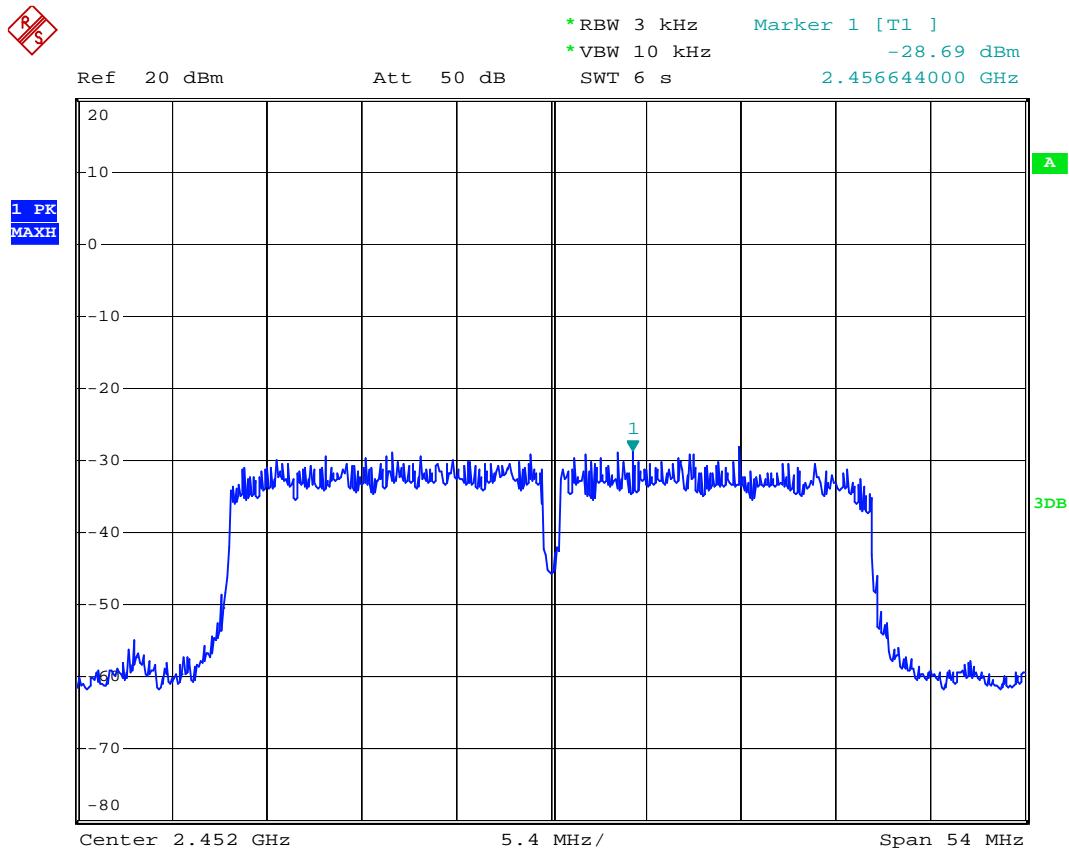
### 802.11n Channel Low 2422MHz (40MHz)



### 802.11n Channel Middle 2437MHz (40MHz)



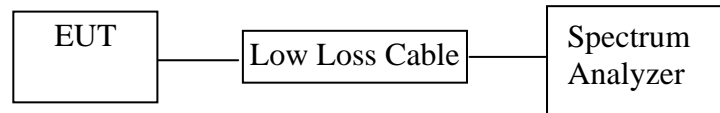
### 802.11n Channel High 2452MHz (40MHz)





## 8. BAND EDGE COMPLIANCE TEST

### 8.1. Block Diagram of Test Setup



(EUT: MID)

### 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. MID (EUT)

Model Number	:	PC436
Serial Number	:	N/A
Manufacturer	:	ShenZhen Natural Sound Electronics 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 and 2422-2452MHz MHz. We select 2412MHz, 2462MHz and 2422MHz, 2452MHz TX frequency to transmit.

## 8.5. Test Procedure

### Conducted Band Edge:

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.

### Radiate Band Edge:

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**Date of Test: Mar 6, 2013Temperature: 25°CEUT: MIDHumidity: 50%Model No.: PC436Power Supply: DC 5VTest Mode: TXTest Engineer: Allen

The test was performed with 802.11b

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	38.02	> 20dBc
2462	39.35	> 20dBc

The test was performed with 802.11g

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	31.11	> 20dBc
2462	31.68	> 20dBc

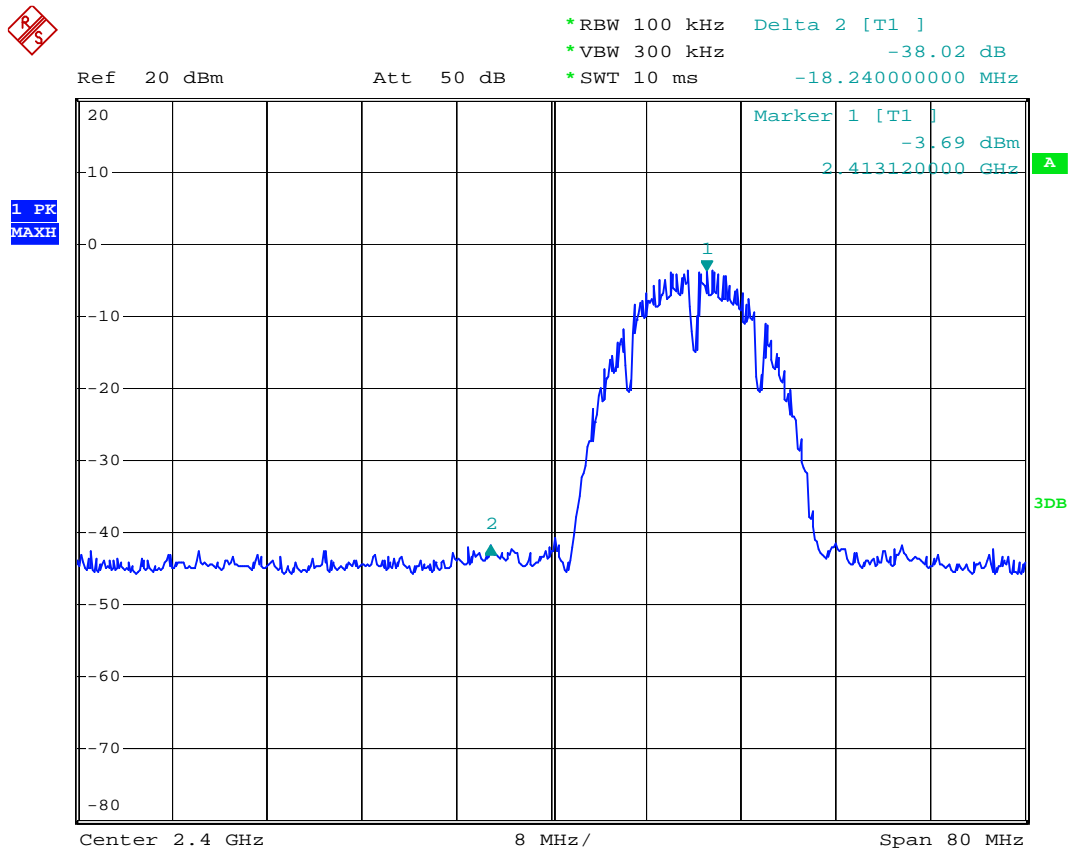
The test was performed with 802.11n (20MHz)

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	27.83	> 20dBc
2462	31.81	> 20dBc

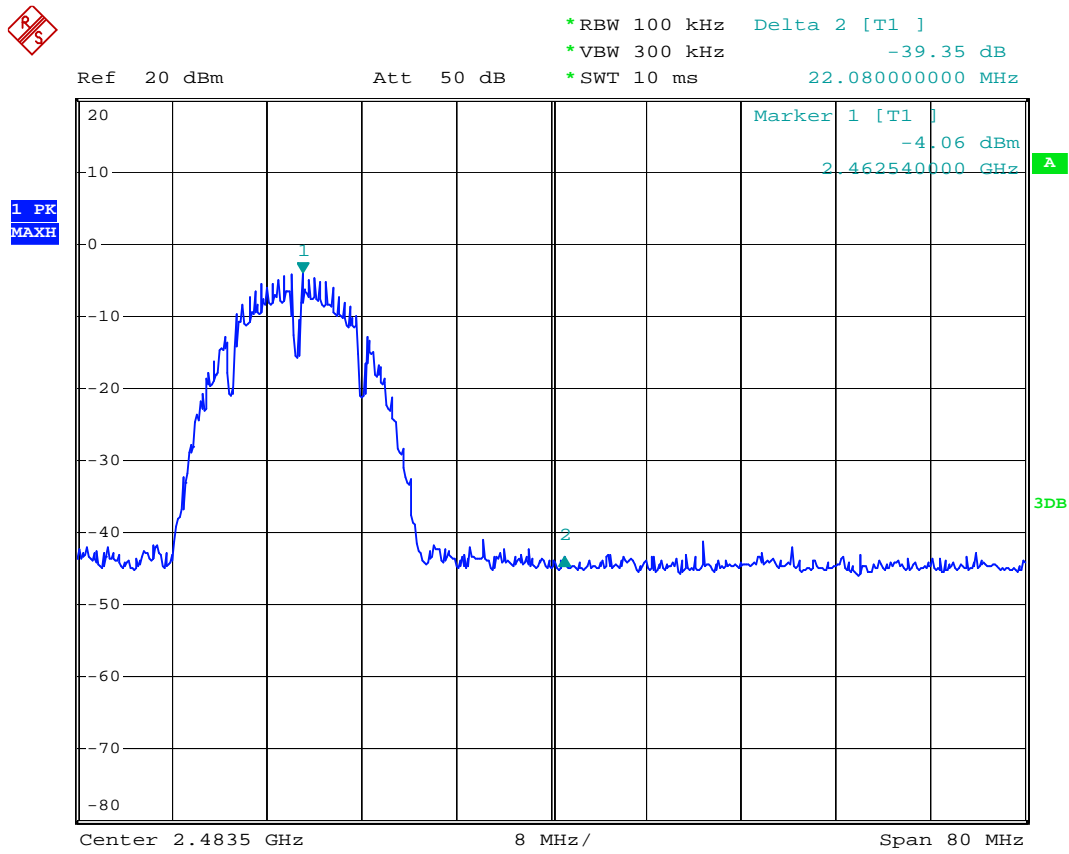
The test was performed with 802.11n (40MHz)

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2422	26.18	> 20dBc
2452	28.88	> 20dBc

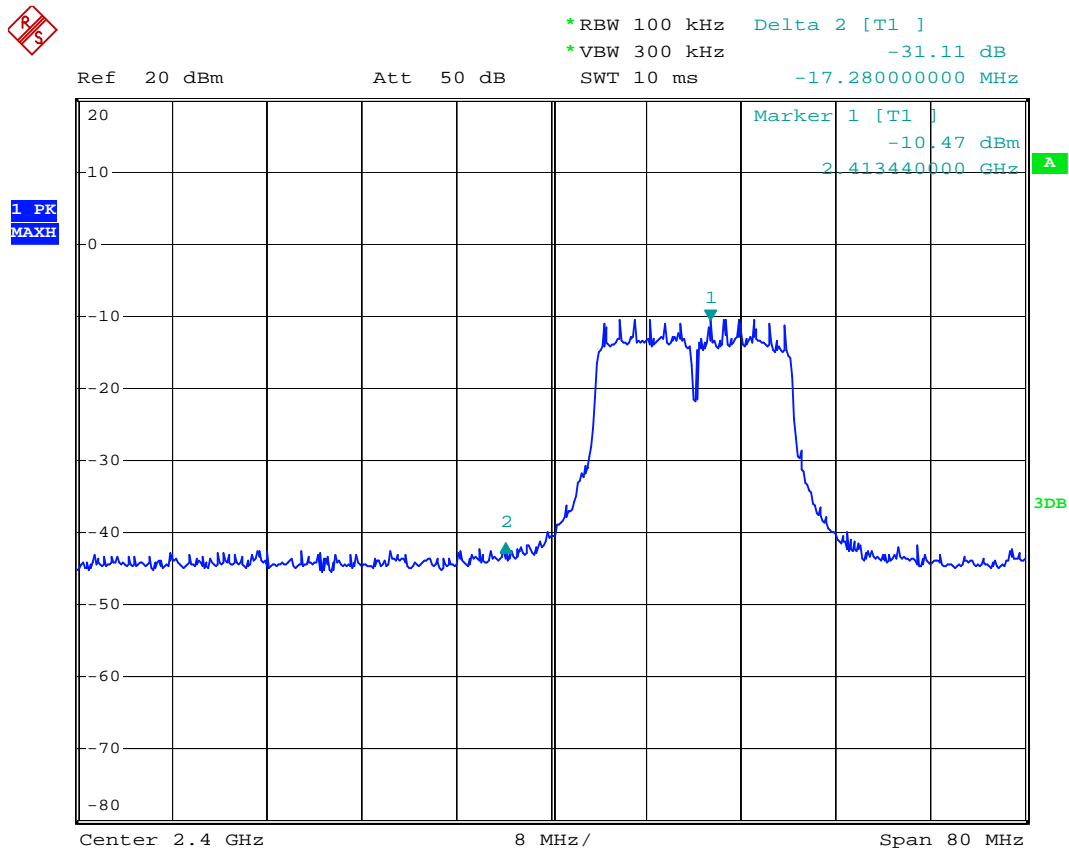
### 802.11b Channel Low 2412MHz



### 802.11b Channel High 2462MHz



### 802.11g Channel Low 2412MHz



### 802.11g Channel High 2462MHz



\*RBW 100 kHz Delta 2 [T1 ]  
\*VBW 300 kHz -31.68 dB  
SWT 10 ms 30.24000000 MHz

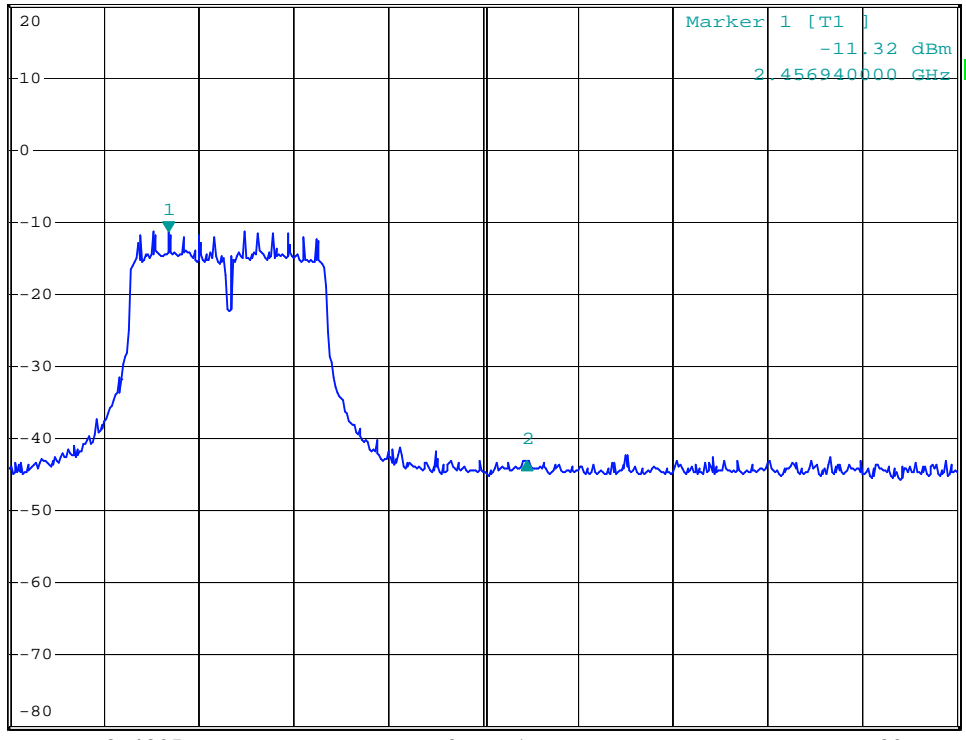
Ref 20 dBm

Att 50 dB

SWT 10 ms

30.24000000 MHz

1 PK  
MAXH



### 802.11n Channel Low 2412MHz (20MHz)



\*RBW 100 kHz Delta 2 [T1 ]  
\*VBW 300 kHz -27.83 dB  
SWT 10 ms -5.920000000 MHz

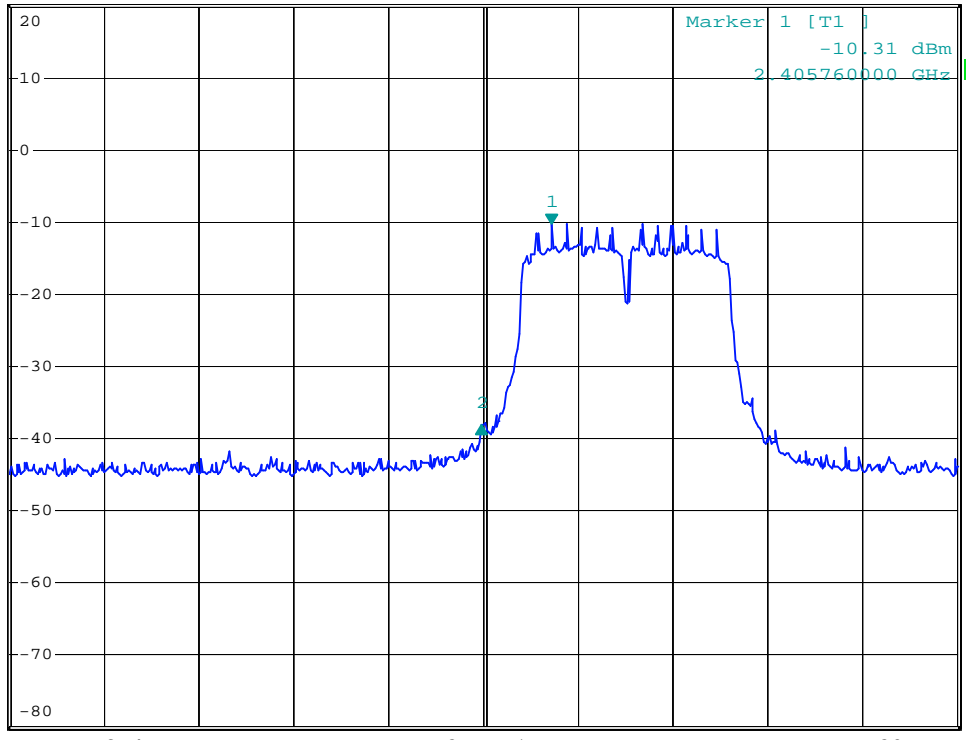
Ref 20 dBm

Att 50 dB

SWT 10 ms

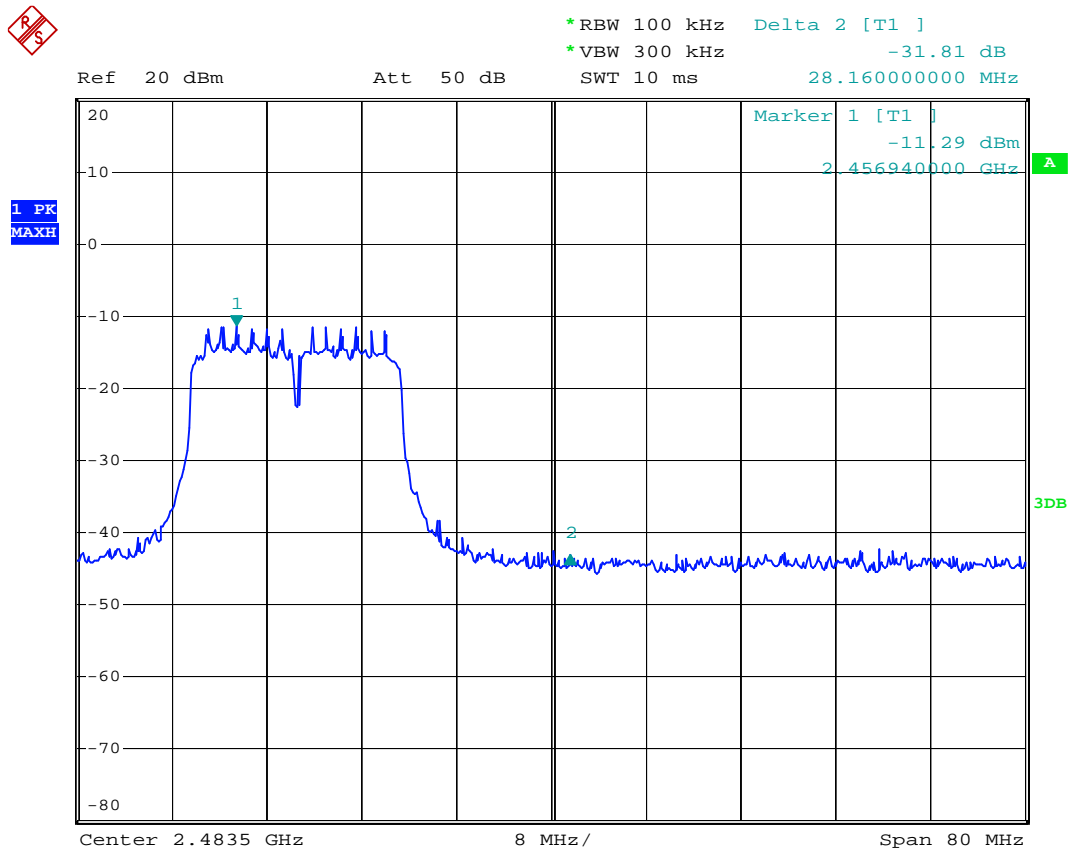
-5.920000000 MHz

1 PK  
MAXH

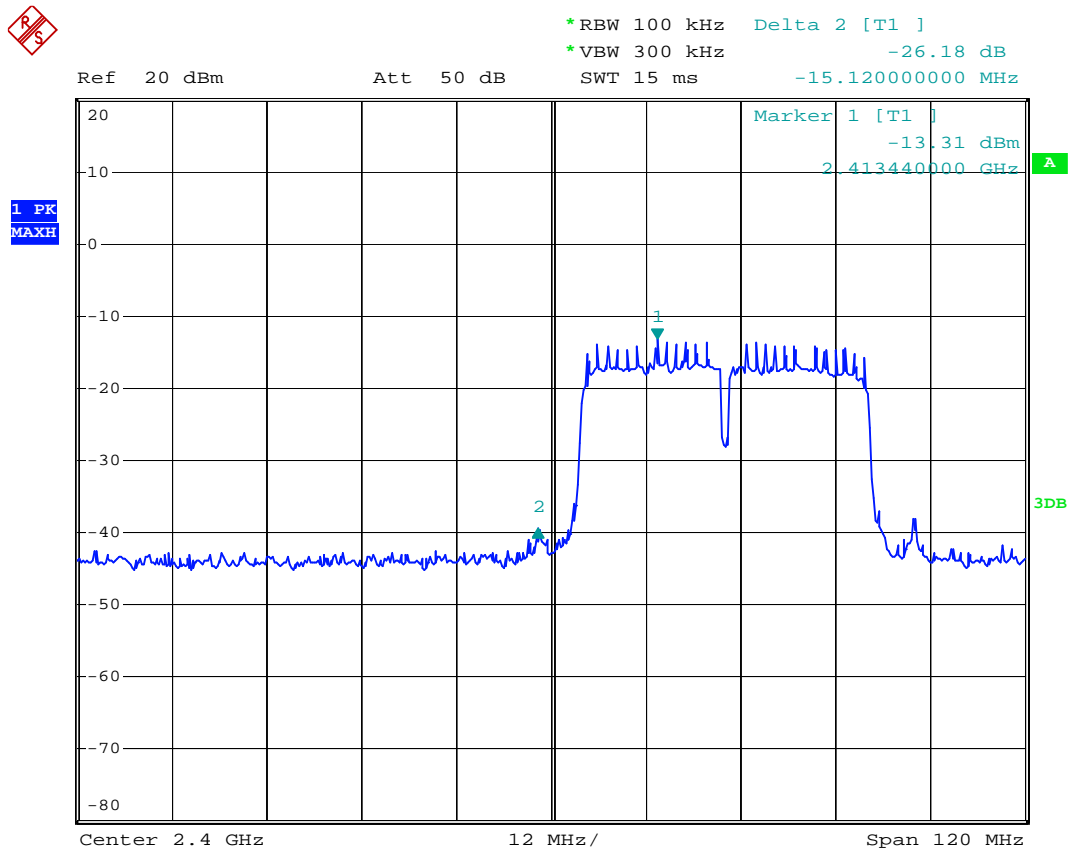




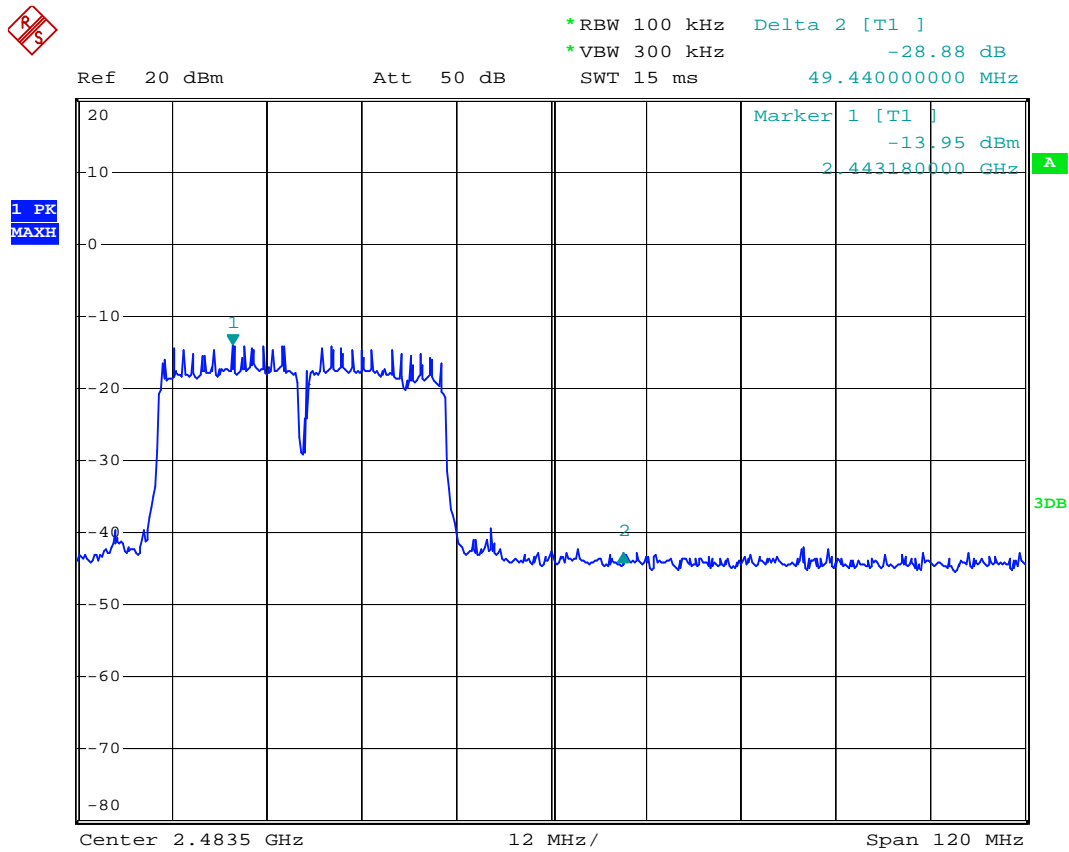
### 802.11n Channel High 2462MHz (20MHz)



### 802.11n Channel Low 2422MHz (40MHz)



### 802.11n Channel High 2452MHz (40MHz)



**Radiated Band Edge Result**

Date of Test:	<u>Mar 7, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>802.11b Channel Low 2412MHz</u>	Test Engineer:	<u>Allen</u>

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	
2394.778	45.36	49.87	-7.49	37.87	42.38	54	74	-16.13	-31.62	Vertical
2400.000	51.86	55.86	-7.46	44.40	48.40	54	74	-9.60	-25.60	Vertical
2394.647	45.30	49.38	-7.49	37.81	41.89	54	74	-16.19	-32.11	Horizontal
2400.000	52.04	55.58	-7.46	44.58	48.12	54	74	-9.42	-25.88	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:	<u>Mar 7, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>802.11b Channel High 2462MHz</u>	Test Engineer:	<u>Allen</u>

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	41.83	45.93	-7.37	34.46	38.56	54	74	-19.54	-35.44	Vertical
2487.556	44.20	48.69	-7.38	36.82	41.31	54	74	-17.18	-32.69	Vertical
2483.500	44.12	48.08	-7.37	36.75	40.71	54	74	-17.25	-33.29	Horizontal
2484.893	45.89	50.42	-7.38	38.51	43.04	54	74	-15.49	-30.96	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:	<u>Mar 7, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>802.11g Channel Low 2412MHz</u>	Test Engineer:	<u>Allen</u>

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	
2398.855	58.46	63.91	-7.46	51.00	56.45	54	74	-3.00	-17.55	Vertical
2400.000	58.79	66.85	-7.46	51.33	59.39	54	74	-2.67	-14.61	Vertical
2396.618	53.09	57.08	-7.48	45.61	49.60	54	74	-8.39	-24.40	Horizontal
2400.000	58.24	63.99	-7.46	50.78	56.53	54	74	-3.22	-17.47	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:	<u>Mar 7, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>802.11g Channel High 2462MHz</u>	Test Engineer:	<u>Allen</u>

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	45.39	49.42	-7.37	38.02	42.05	54	74	-15.98	-31.95	Vertical
2484.954	46.45	50.39	-7.38	39.07	43.01	54	74	-14.93	-30.99	Vertical
2483.500	41.89	45.76	-7.37	34.52	38.39	54	74	-19.48	-35.61	Horizontal
2485.014	41.86	46.22	-7.38	34.48	38.84	54	74	-19.52	-35.16	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:	<u>Mar 7, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>802.11n Channel Low 2412MHz (20MHz)</u>	Test Engineer:	<u>Allen</u>

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	
2398.460	58.56	63.31	-7.47	51.09	55.84	54	74	-2.91	-18.16	Vertical
2400.000	58.26	62.01	-7.46	50.80	54.55	54	74	-3.20	-19.45	Vertical
2398.328	54.16	58.62	-7.47	46.69	51.15	54	74	-7.31	-22.85	Horizontal
2400.000	56.27	61.18	-7.46	48.81	53.72	54	74	-5.19	-20.28	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:	<u>Mar 7, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>802.11n Channel High 2462MHz (20MHz)</u>	Test Engineer:	<u>Allen</u>

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	41.35	44.61	-7.37	33.98	37.24	54	74	-20.02	-36.76	Vertical
2486.406	42.36	47.93	-7.39	34.97	40.54	54	74	-19.03	-33.46	Vertical
2483.500	40.17	43.91	-7.37	32.80	36.54	54	74	-21.20	-37.46	Horizontal
2485.438	42.35	46.21	-7.38	34.97	38.83	54	74	-19.03	-35.17	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:	<u>Mar 7, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
	<u>802.11n Channel Low 2422MHz</u>		
Test Mode:	<u>(40MHz)</u>	Test Engineer:	<u>Allen</u>

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	
2398.723	56.01	59.98	-7.47	48.54	52.51	54	74	-5.46	-21.49	Vertical
2400.000	51.99	55.06	-7.46	44.53	47.60	54	74	-9.47	-26.40	Vertical
2398.460	50.32	54.27	-7.47	42.85	46.80	54	74	-11.15	-27.20	Horizontal
2400.000	48.31	51.69	-7.46	40.85	44.23	54	74	-13.15	-29.77	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:	<u>Mar 7, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>802.11n Channel High 2452MHz (40MHz)</u>	Test Engineer:	<u>Allen</u>

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	43.86	47.65	-7.37	36.49	40.28	54	74	-17.51	-33.72	Vertical
2485.861	44.87	48.90	-7.38	37.49	41.52	54	74	-16.51	-32.48	Vertical
2483.500	41.65	45.97	-7.37	34.28	38.60	54	74	-19.72	-35.40	Horizontal
2485.014	43.48	47.95	-7.38	36.10	40.57	54	74	-17.90	-33.43	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.



**ACCURATE TECHNOLOGY CO., LTD.**

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #739	Polarization: Vertical
Standard: FCC 15C	Power Source: USB 5V
Test item: Radiation Test	Date: 13/3/7/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 9/10/35
EUT: MID	Engineer Signature: Ricky
Mode: TX Channel 1(802.11b)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2394.778	49.87	-7.49	42.38	74.00	-31.62	peak			
2	2394.778	45.36	-7.49	37.87	54.00	-16.13	AVG			
3	2400.000	55.86	-7.46	48.40	74.00	-25.60	peak			
4	2400.000	51.86	-7.46	44.40	54.00	-9.60	AVG			



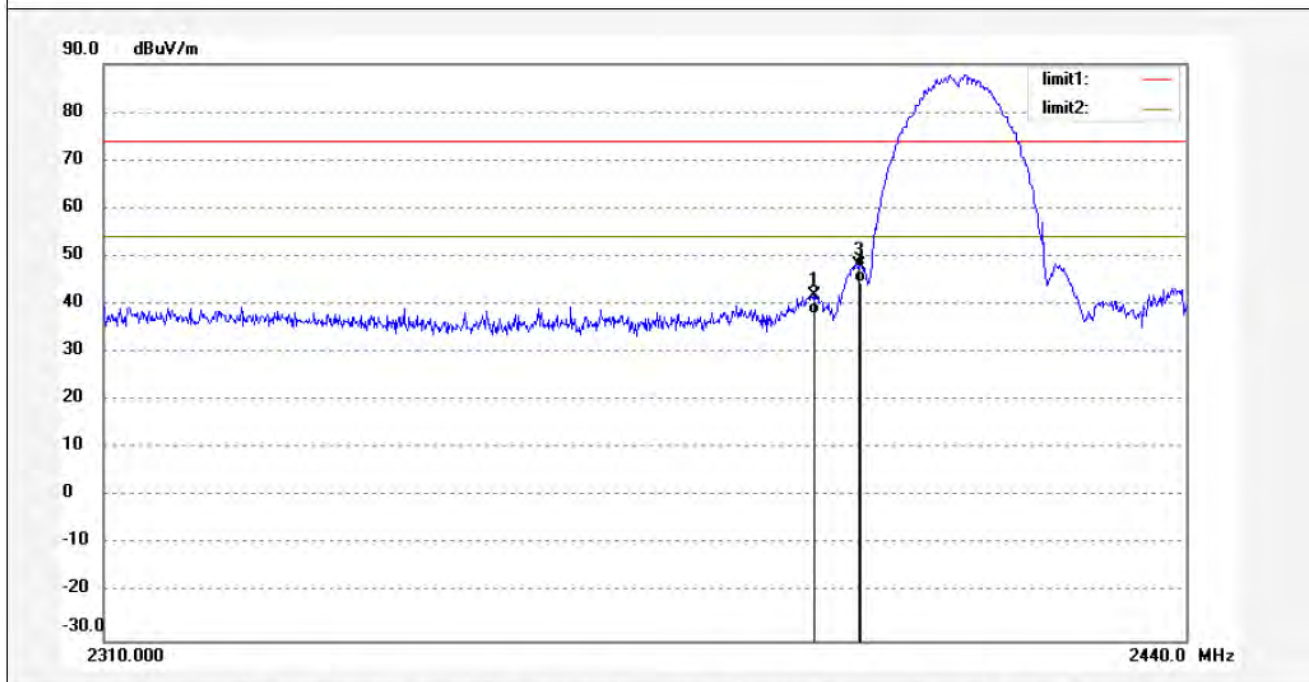
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #740	Polarization: Horizontal
Standard: FCC 15C	Power Source: USB 5V
Test item: Radiation Test	Date: 13/3/7/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 9/11/42
EUT: MID	Engineer Signature:
Mode: TX Channel 1(802.11b)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2394.647	49.38	-7.49	41.89	74.00	-32.11	peak			
2	2394.647	45.30	-7.49	37.81	54.00	-16.19	AVG			
3	2400.000	55.58	-7.46	48.12	74.00	-25.88	peak			
4	2400.000	52.04	-7.46	44.58	54.00	-9.42	AVG			



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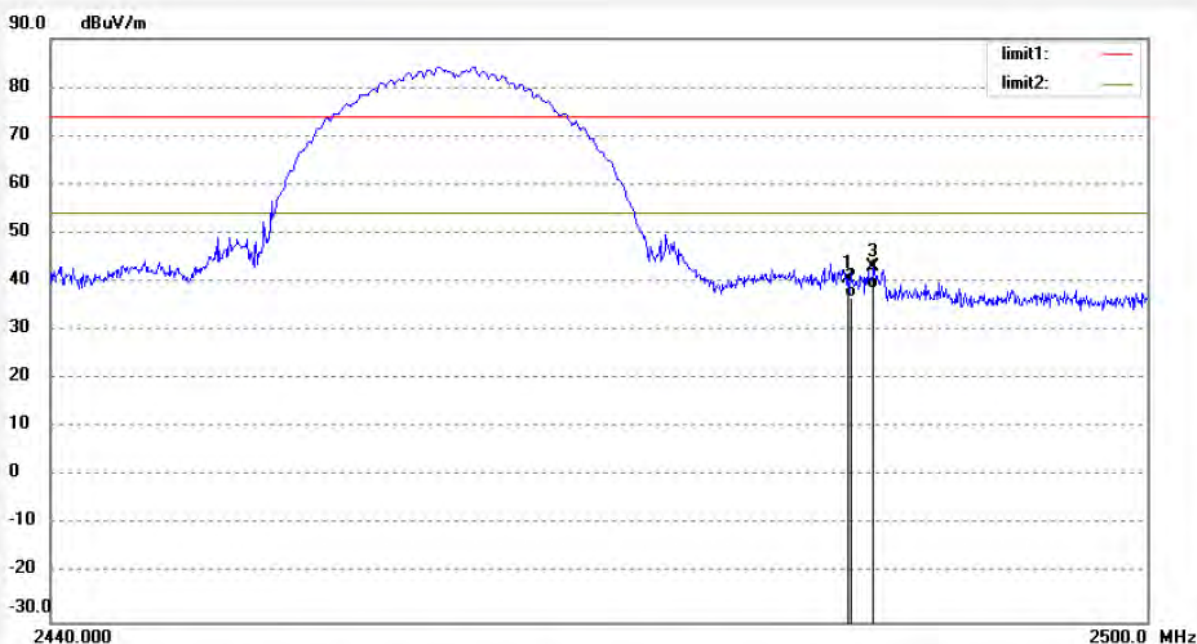
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #741  
Standard: FCC 15C  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: MID  
Mode: TX Channel 11(802.11b)  
Model: PC436  
Manufacturer: Natural Sound

Polarization: Horizontal  
Power Source: USB 5V  
Date: 13/3/7/  
Time: 9/14/03  
Engineer Signature:  
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	48.08	-7.37	40.71	74.00	-33.29	peak			
2	2483.500	44.12	-7.37	36.75	54.00	-17.25	AVG			
3	2484.893	50.42	-7.38	43.04	74.00	-30.96	peak			
4	2484.893	45.89	-7.38	38.51	54.00	-15.49	AVG			



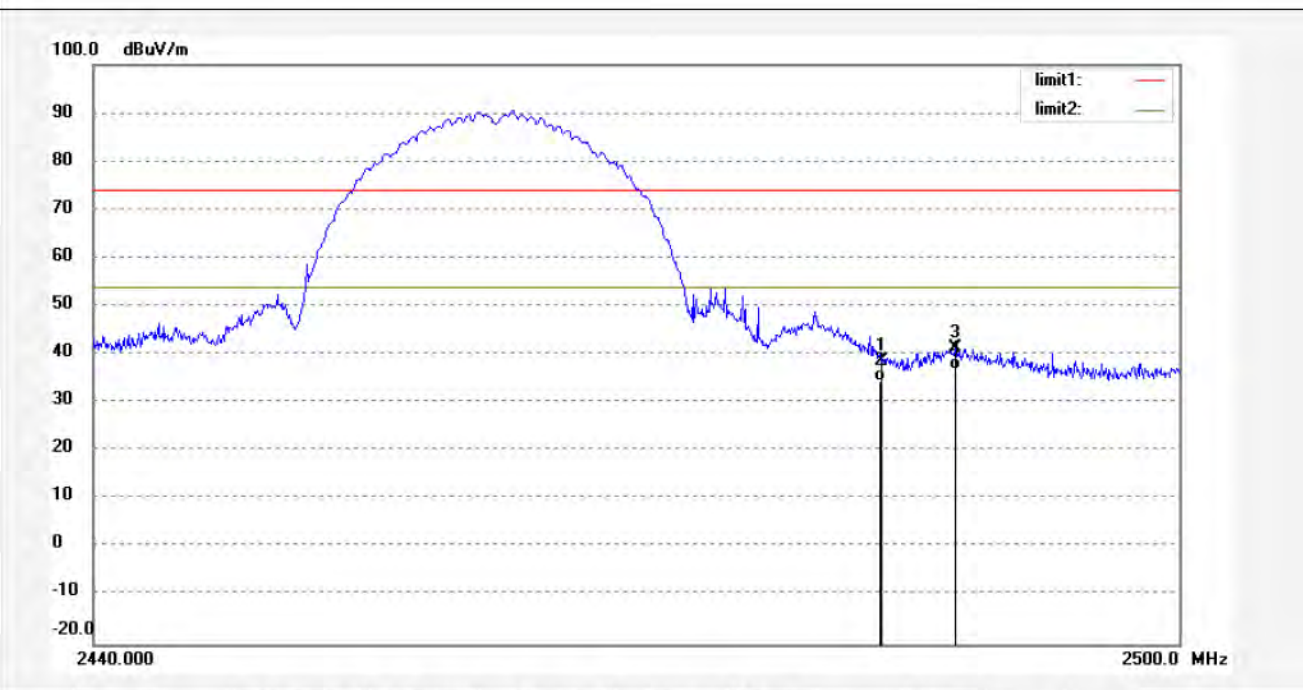
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #742	Polarization: Vertical
Standard: FCC 15C	Power Source: USB 5V
Test item: Radiation Test	Date: 13/3/7/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 9/15/14
EUT: MID	Engineer Signature:
Mode: TX Channel 12(802.11b)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

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	45.93	-7.37	38.56	74.00	-35.44	peak			
2	2483.500	41.83	-7.37	34.46	54.00	-19.54	AVG			
3	2487.556	48.69	-7.38	41.31	74.00	-32.69	peak			
4	2487.556	44.20	-7.38	36.82	54.00	-17.18	AVG			



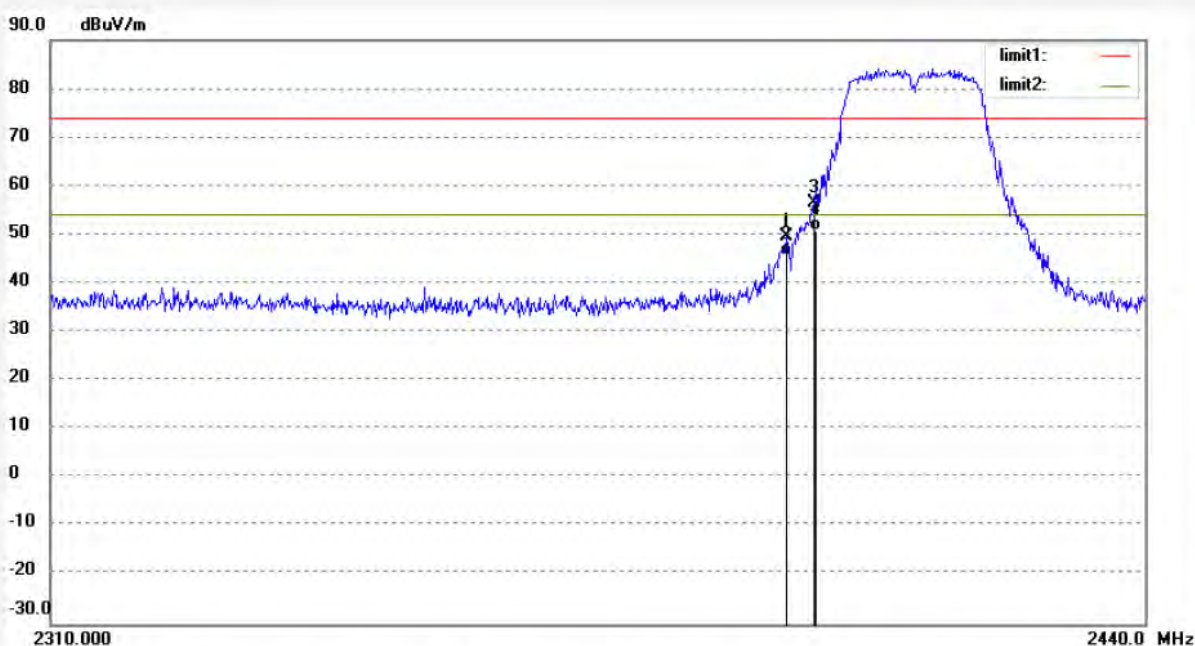
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #745	Polarization: Horizontal
Standard: FCC 15C	Power Source: USB 5V
Test item: Radiation Test	Date: 13/3/7/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 9/21/28
EUT: MID	Engineer Signature:
Mode: TX Channel 1(802.11g)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2396.618	57.08	-7.48	49.60	74.00	-24.40	peak			
2	2396.618	53.09	-7.48	45.61	54.00	-8.39	AVG			
3	2400.000	63.99	-7.46	56.53	74.00	-17.47	peak			
4	2400.000	58.24	-7.46	50.78	54.00	-3.22	AVG			





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Site: 2# Chamber

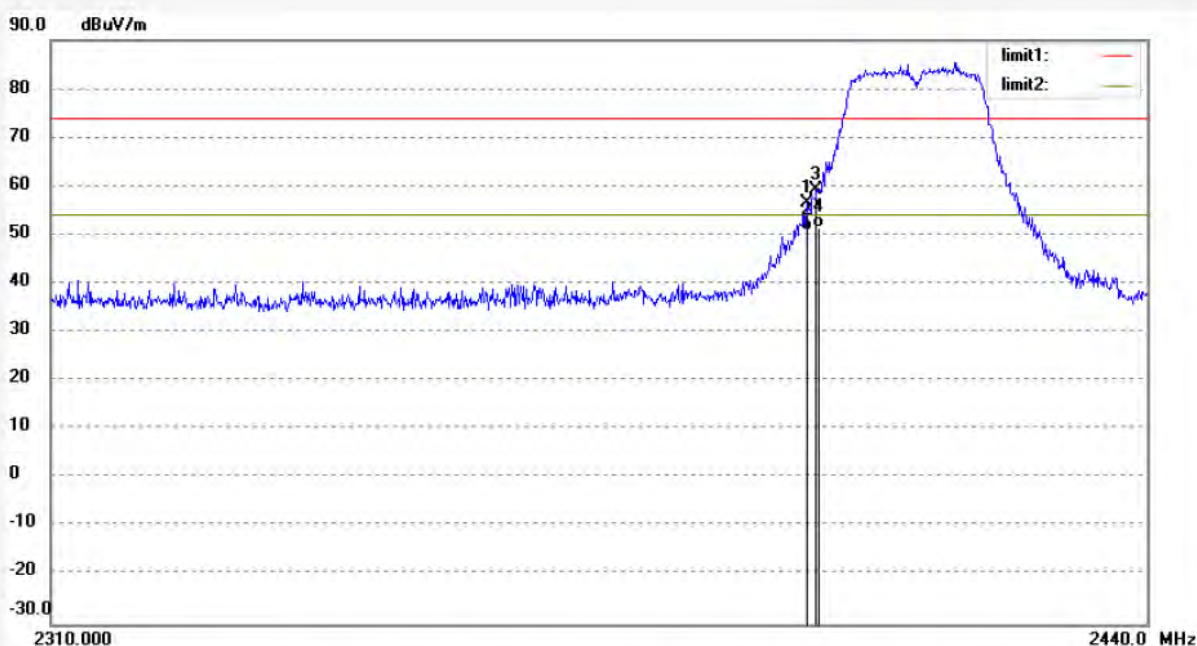
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #746  
Standard: FCC 15C  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: MID  
Mode: TX Channel 1(802.11g)  
Model: PC436  
Manufacturer: Natural Sound

Polarization: Vertical  
Power Source: USB 5V  
Date: 13/3/7/  
Time: 9/23/02  
Engineer Signature:  
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	2398.855	63.91	-7.46	56.45	74.00	-17.55	peak			
2	2398.855	58.46	-7.46	51.00	54.00	-3.00	AVG			
3	2400.000	66.85	-7.46	59.39	74.00	-14.61	peak			
4	2400.000	58.79	-7.46	51.33	54.00	-2.67	AVG			



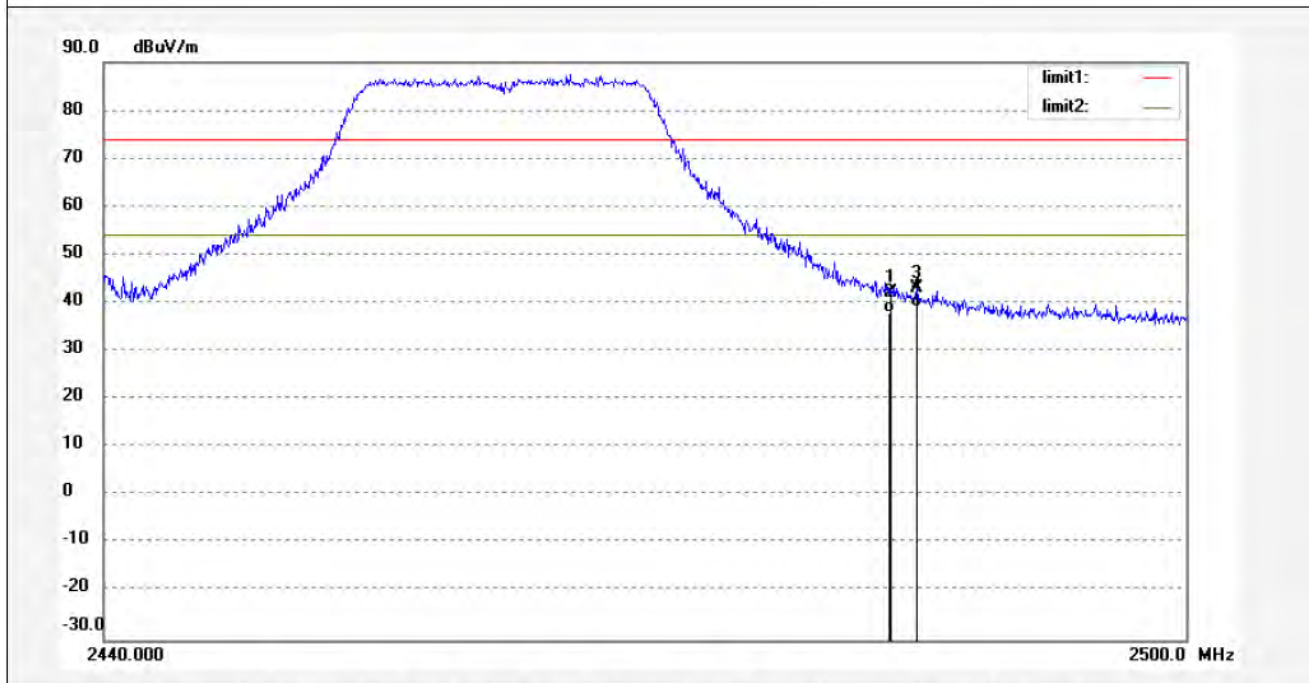
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #743	Polarization: Vertical
Standard: FCC 15C	Power Source: USB 5V
Test item: Radiation Test	Date: 13/3/7/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 9/17/52
EUT: MID	Engineer Signature:
Mode: TX Channel 11(802.11g)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

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	49.42	-7.37	42.05	74.00	-31.95	peak			
2	2483.500	45.39	-7.37	38.02	54.00	-15.98	AVG			
3	2484.954	50.39	-7.38	43.01	74.00	-30.99	peak			
4	2484.954	46.45	-7.38	39.07	54.00	-14.93	AVG			



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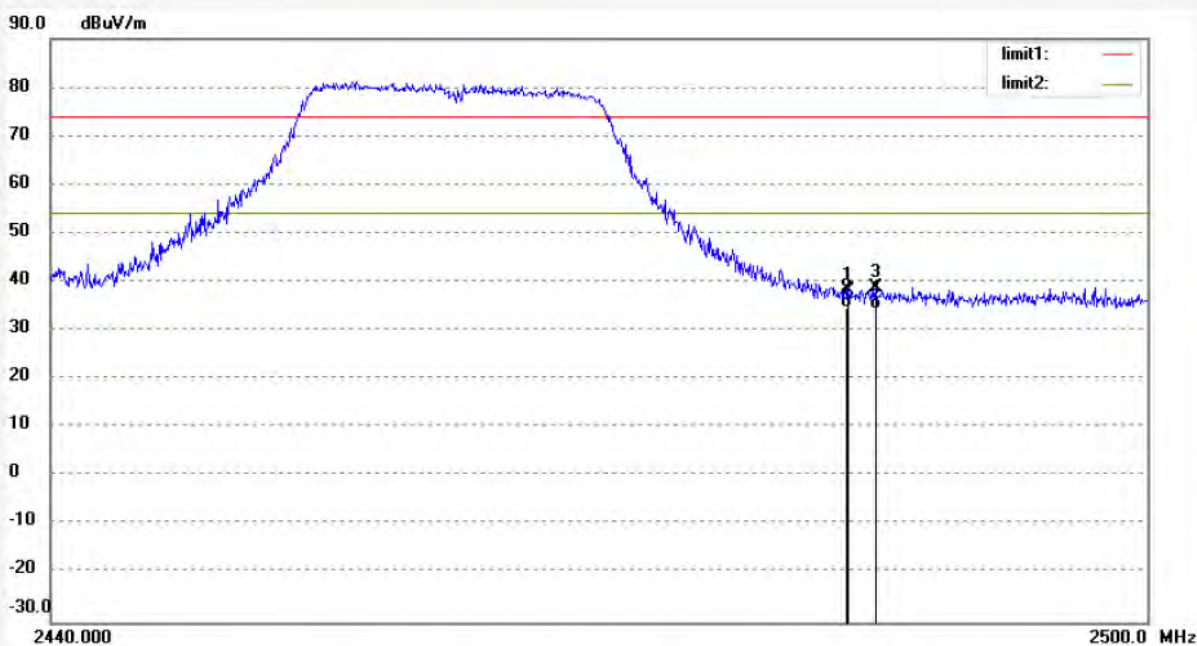
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #744  
Standard: FCC 15C  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: MID  
Mode: TX Channel 11(802.11g)  
Model: PC436  
Manufacturer: Natural Sound

Polarization: Vertical  
Power Source: USB 5V  
Date: 13/3/7/  
Time: 9/19/19  
Engineer Signature:  
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	45.76	-7.37	38.39	74.00	-35.61	peak			
2	2483.500	41.89	-7.37	34.52	54.00	-19.48	AVG			
3	2485.014	46.22	-7.38	38.84	74.00	-35.16	peak			
4	2485.014	41.86	-7.38	34.48	54.00	-19.52	AVG			



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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #747

Standard: FCC 15C

Test item: Radiation Test

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

EUT: MID

Mode: TX Channel 1(802.11n)20MHz

Model: PC436

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: USB 5V

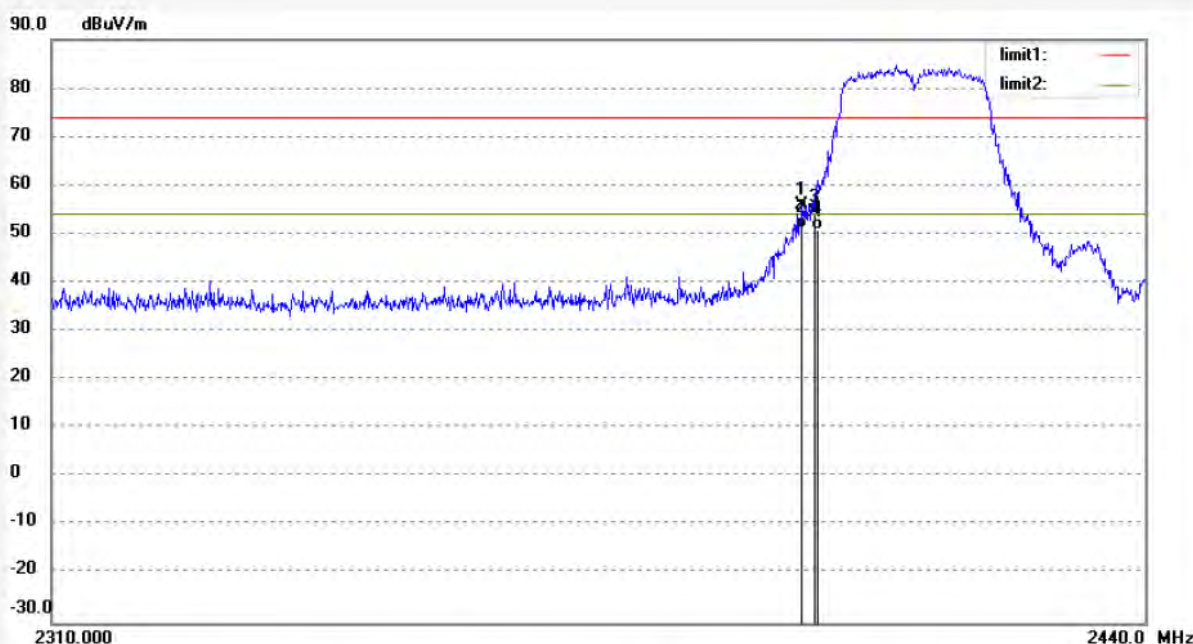
Date: 13/3/7/

Time: 9/26/49

Engineer Signature:

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	2398.460	63.31	-7.47	55.84	74.00	-18.16	peak			
2	2398.460	58.56	-7.47	51.09	54.00	-2.91	AVG			
3	2400.000	62.01	-7.46	54.55	74.00	-19.45	peak			
4	2400.000	58.26	-7.46	50.80	54.00	-3.20	AVG			



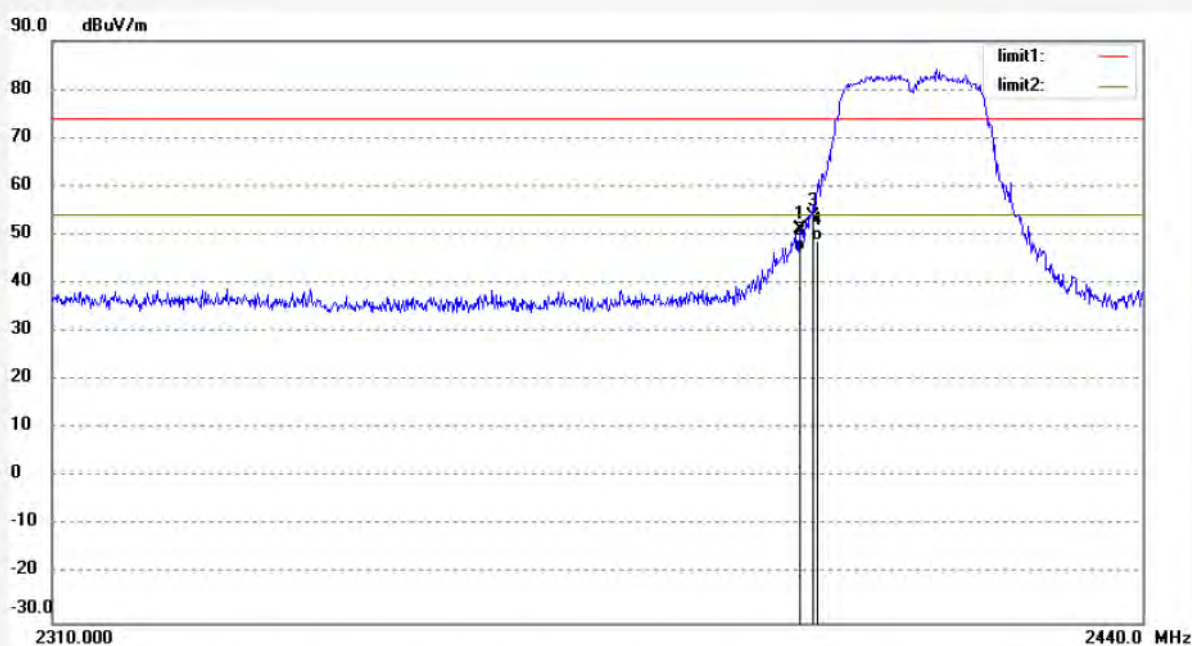
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #748	Polarization: Horizontal
Standard: FCC 15C	Power Source: USB 5V
Test item: Radiation Test	Date: 13/3/7/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 9/27/59
EUT: MID	Engineer Signature:
Mode: TX Channel 1(802.11n)20MHz	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.328	58.62	-7.47	51.15	74.00	-22.85	peak			
2	2398.328	54.16	-7.47	46.69	54.00	-7.31	AVG			
3	2400.000	61.18	-7.46	53.72	74.00	-20.28	peak			
4	2400.000	56.27	-7.46	48.81	54.00	-5.19	AVG			



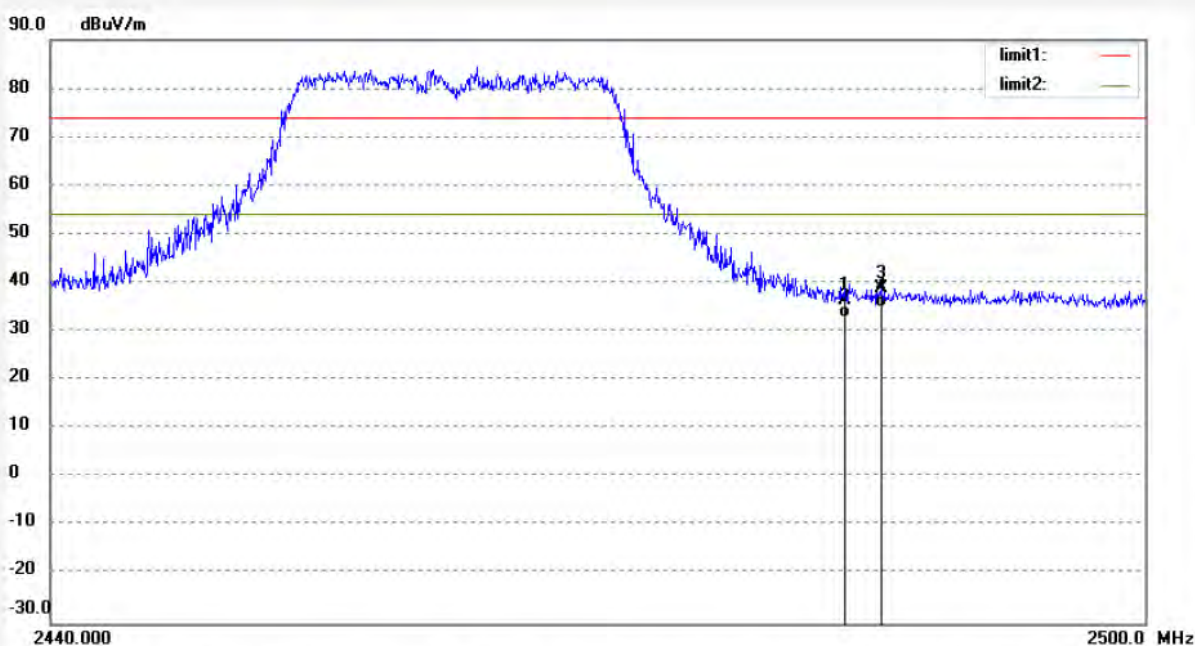
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #749	Polarization: Horizontal
Standard: FCC 15C	Power Source: USB 5V
Test item: Radiation Test	Date: 13/3/7/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 9/30/12
EUT: MID	Engineer Signature:
Mode: TX Channel 11(802.11n)20MHz	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

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	43.91	-7.37	36.54	74.00	-37.46	peak			
2	2483.500	40.17	-7.37	32.80	54.00	-21.20	AVG			
3	2485.438	46.21	-7.38	38.83	74.00	-35.17	peak			
4	2485.438	42.35	-7.38	34.97	54.00	-19.03	AVG			



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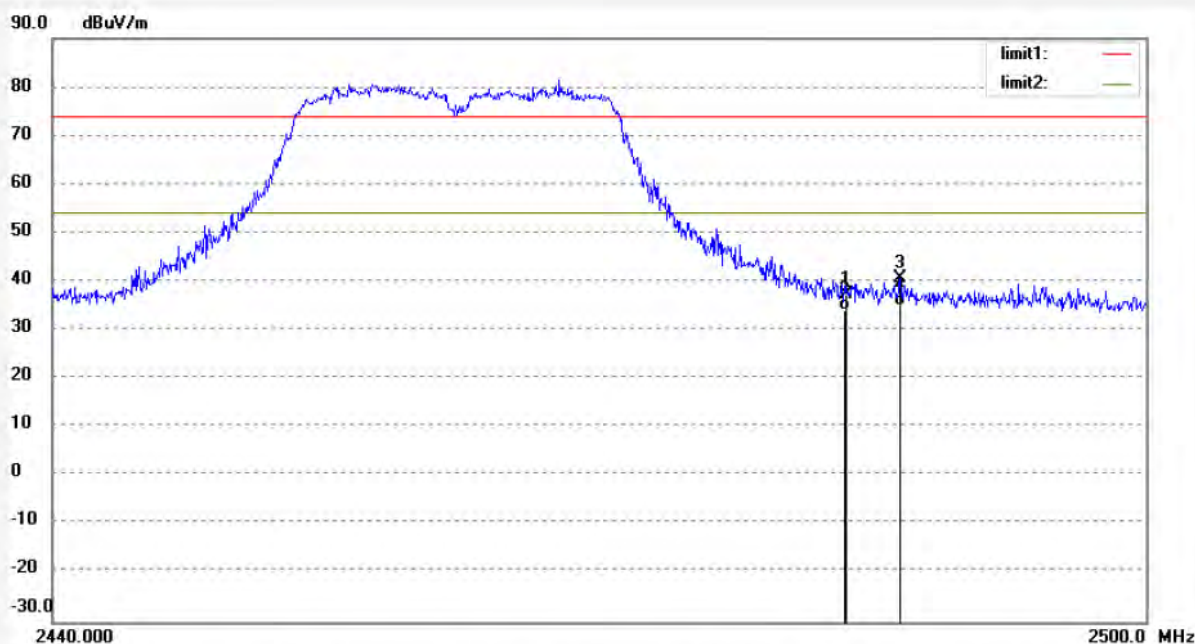
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #750  
Standard: FCC 15C  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: MID  
Mode: TX Channel 11(802.11n)20MHz  
Model: PC436  
Manufacturer: Natural Sound

Polarization: Vertical  
Power Source: USB 5V  
Date: 13/3/7/  
Time: 9/34/16  
Engineer Signature:  
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	44.61	-7.37	37.24	74.00	-36.76	peak			
2	2483.500	41.35	-7.37	33.98	54.00	-20.02	AVG			
3	2486.406	47.93	-7.39	40.54	74.00	-33.46	peak			
4	2486.406	42.36	-7.39	34.97	54.00	-19.03	AVG			



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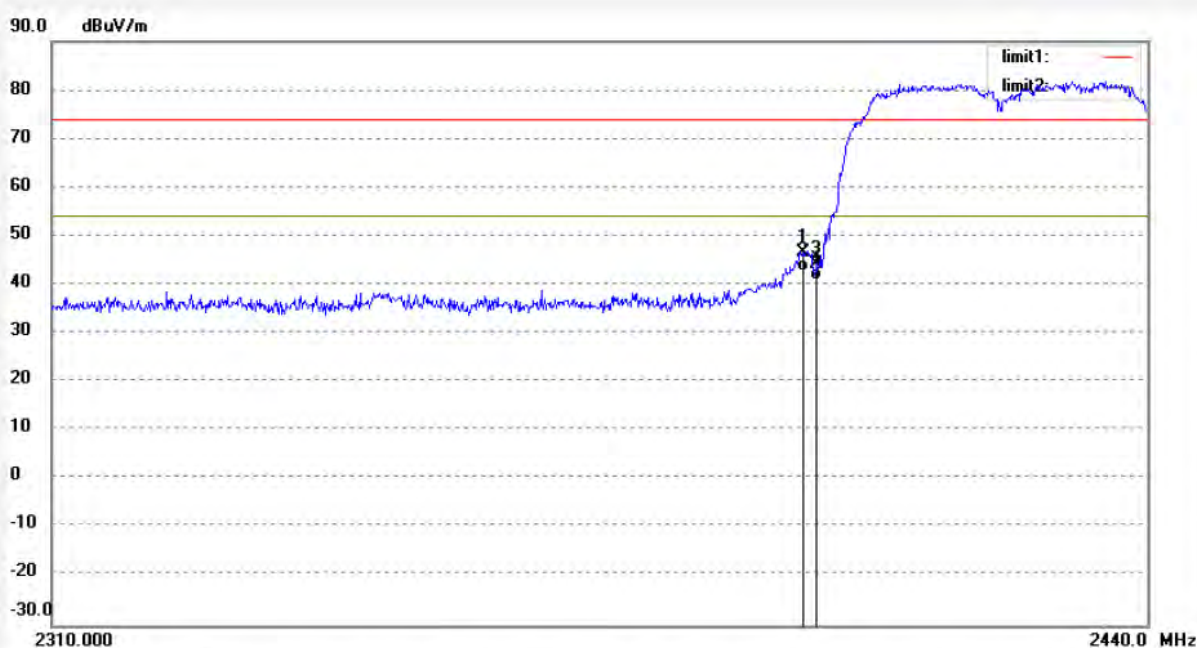
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #753	Polarization: Horizontal
Standard: FCC 15C	Power Source: USB 5V
Test item: Radiation Test	Date: 13/3/7/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 9/40/53
EUT: MID	Engineer Signature:
Mode: TX Channel 1(802.11n)40MHz	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.460	54.27	-7.47	46.80	74.00	-27.20	peak			
2	2398.460	50.32	-7.47	42.85	54.00	-11.15	AVG			
3	2400.000	51.69	-7.46	44.23	74.00	-29.77	peak			
4	2400.000	48.31	-7.46	40.85	54.00	-13.15	AVG			





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Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #754

Standard: FCC 15C

Test item: Radiation Test

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

EUT: MID

Mode: TX Channel 1(802.11n)40MHz

Model: PC436

Manufacturer: Natural Sound

Polarization: Vertical

Power Source: USB 5V

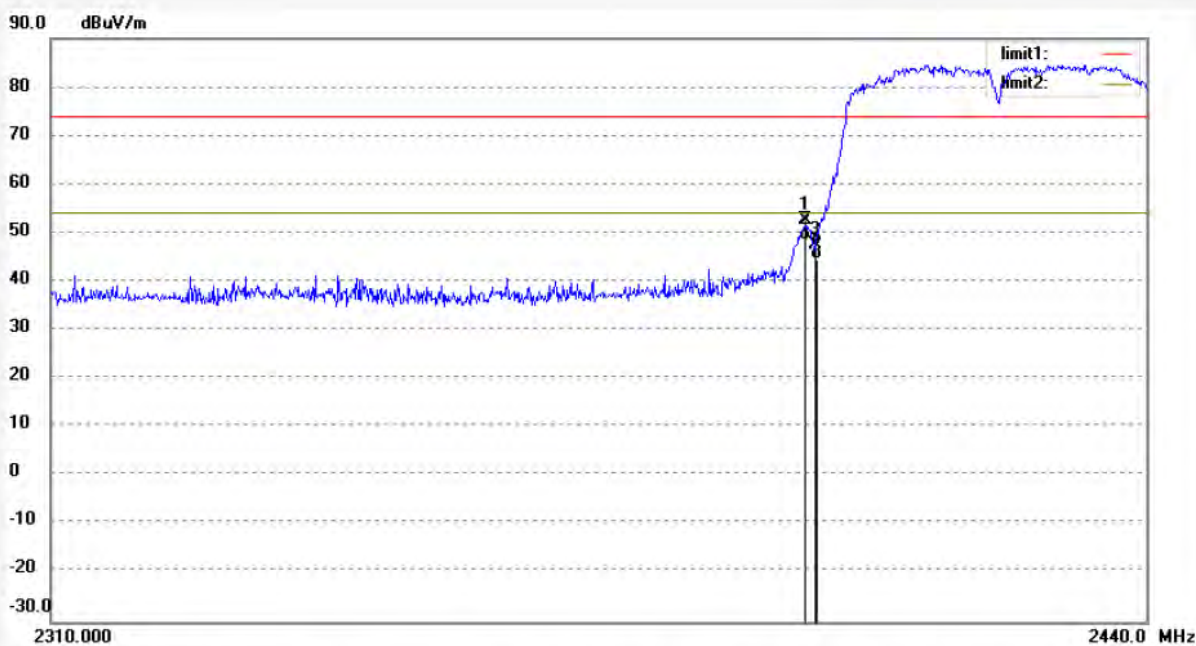
Date: 13/3/7/

Time: 9/43/03

Engineer Signature:

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	2398.723	59.98	-7.47	52.51	74.00	-21.49	peak			
2	2398.723	56.01	-7.47	48.54	54.00	-5.46	AVG			
3	2400.000	55.06	-7.46	47.60	74.00	-26.40	peak			
4	2400.000	51.99	-7.46	44.53	54.00	-9.47	AVG			



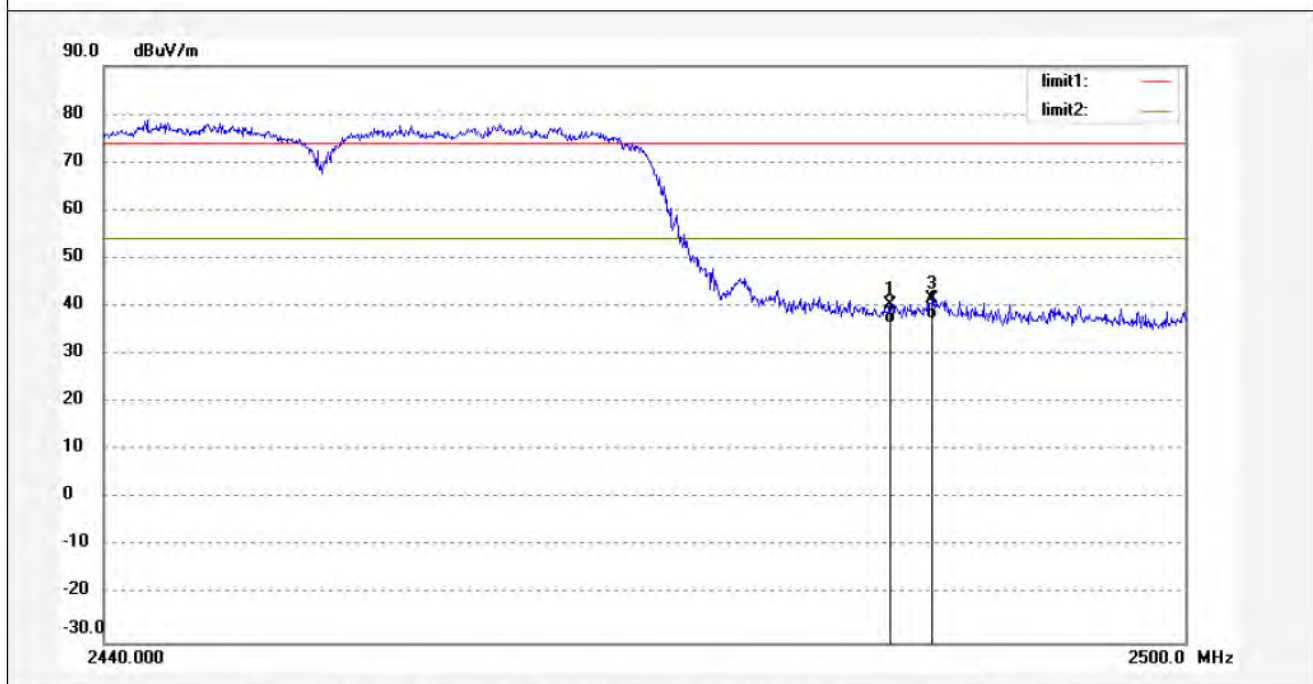
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #751	Polarization: Vertical
Standard: FCC 15C	Power Source: USB 5V
Test item: Radiation Test	Date: 13/3/7/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 9/37/16
EUT: MID	Engineer Signature:
Mode: TX Channel 11(802.11n)40MHz	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

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	47.65	-7.37	40.28	74.00	-33.72	peak			
2	2483.500	43.86	-7.37	36.49	54.00	-17.51	AVG			
3	2485.861	48.90	-7.38	41.52	74.00	-32.48	peak			
4	2485.861	44.87	-7.38	37.49	54.00	-16.51	AVG			



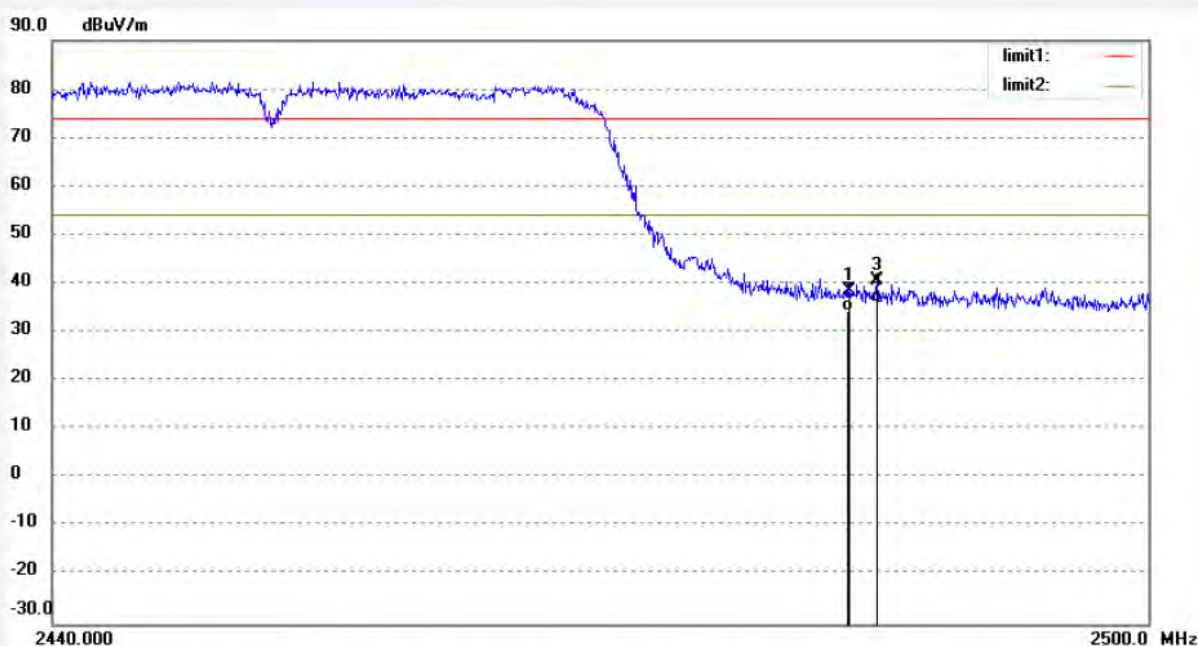
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: ALEN #752	Polarization: Vertical
Standard: FCC 15C	Power Source: USB 5V
Test item: Radiation Test	Date: 13/3/71
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 9/38/49
EUT: MID	Engineer Signature:
Mode: TX Channel 11(802.11n)40MHz	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:

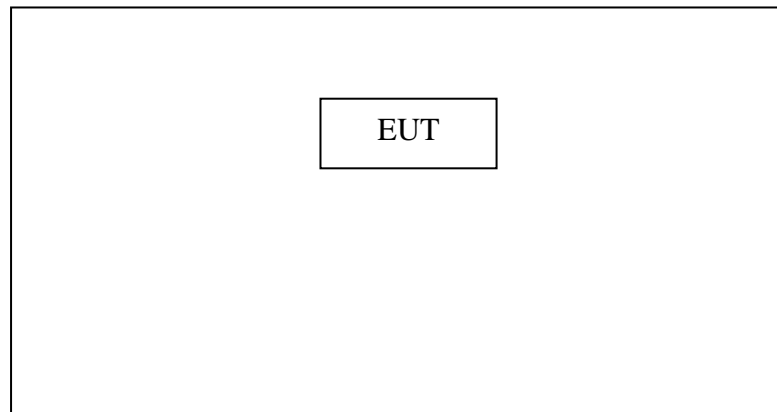


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	45.97	-7.37	38.60	74.00	-35.40	peak			
2	2483.500	41.65	-7.37	34.28	54.00	-19.72	AVG			
3	2485.014	47.95	-7.38	40.57	74.00	-33.43	peak			
4	2485.014	43.48	-7.38	36.10	54.00	-17.90	AVG			

## 9. RADIATED SPURIOUS EMISSION TEST

### 9.1. Block Diagram of Test Setup

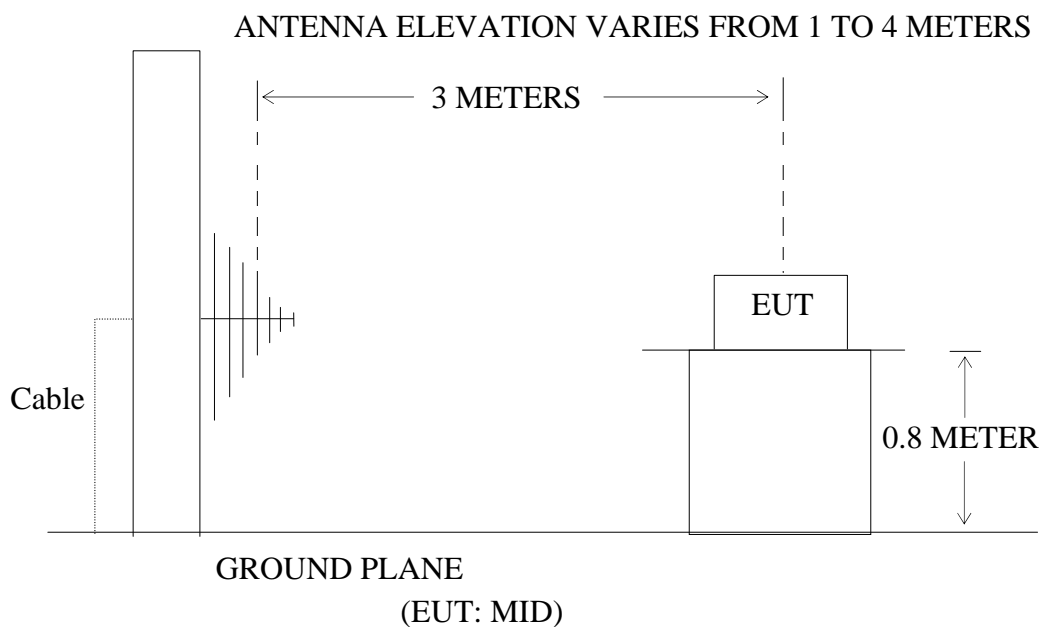
#### 9.1.1. Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

(EUT: MID)

#### 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
<sup>1</sup> 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	( <sup>2</sup> )
13.36-13.41			

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510

<sup>2</sup>Above 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. MID (EUT)

Model Number : PC436  
 Serial Number : N/A  
 Manufacturer : ShenZhen Natural Sound Electronics 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 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz 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 5, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	PC436	Power Supply:	DC 5V
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Allen

**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	
176.4699	59.35	-21.05	38.30	43.50	-5.20	Vertical
329.7300	59.10	-16.69	42.41	46.00	-3.59	Vertical
960.2300	45.87	-5.26	40.61	54.00	-13.39	Vertical
176.4699	61.32	-22.19	39.13	43.50	-4.37	Horizontal
291.8999	58.55	-18.04	40.51	46.00	-5.49	Horizontal
960.2300	46.06	-5.26	40.80	54.00	-13.20	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	49.76	49.76	-0.31	49.45	49.45	54	74	-4.55	-24.55	Vertical
4824.000	45.61	48.49	-0.34	45.30	48.18	54	74	-8.70	-25.82	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 5, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	PC436	Power Supply:	DC 5V
Test Mode:	802.11b Channel Middle 2437MHz	Test Engineer:	Allen

**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	
176.4699	61.12	-21.05	40.07	43.50	-3.43	Vertical
408.3000	55.89	-14.73	41.16	46.00	-4.84	Vertical
960.2300	46.35	-5.26	41.09	54.00	-12.91	Vertical
176.4699	61.68	-22.19	39.49	43.50	-4.01	Horizontal
291.8999	60.01	-18.04	41.97	46.00	-4.03	Horizontal
960.2300	46.24	-5.26	40.98	54.00	-13.02	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	45.36	48.94	-0.08	45.28	48.86	54	74	-8.72	-25.14	Vertical
4874.000	45.69	49.56	-0.08	45.61	49.48	54	74	-8.39	-24.52	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 5, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	PC436	Power Supply:	DC 5V
Test Mode:	802.11b Channel High 2462MHz	Test Engineer:	Allen

**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	
176.4699	60.19	-21.05	39.14	43.50	-4.36	Vertical
328.7599	57.21	-16.72	40.49	46.00	-5.51	Vertical
960.2300	46.78	-5.26	41.52	54.00	-12.48	Vertical
176.4699	61.69	-22.19	39.49	43.50	-4.01	Horizontal
285.1099	59.24	-18.17	41.07	46.00	-4.93	Horizontal
960.2300	46.64	-5.26	41.39	54.00	-12.61	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	44.68	48.54	0.30	44.98	48.84	54	74	-9.02	-25.16	Vertical
4924.000	46.21	50.26	0.30	46.51	50.56	54	74	-7.49	-23.44	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 5, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	PC436	Power Supply:	DC 5V
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Allen

**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	
177.4399	60.41	-21.03	39.38	43.50	-4.12	Vertical
329.7300	58.02	-16.69	41.33	46.00	-4.67	Vertical
960.2300	46.02	-5.26	40.76	54.00	-13.24	Vertical
177.4399	61.10	-22.09	39.01	43.50	-4.49	Horizontal
286.0799	58.10	-18.15	39.95	46.00	-6.05	Horizontal
960.2300	46.31	-5.26	41.05	54.00	-12.95	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	45.89	49.07	-0.31	45.58	48.76	54	74	-8.42	-25.24	Vertical
4824.000	45.80	48.80	-0.31	45.49	48.49	54	74	-8.51	-25.51	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 5, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	PC436	Power Supply:	DC 5V
Test Mode:	802.11g Channel Middle 2437MHz	Test Engineer:	Allen

**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	
176.4699	61.54	-22.19	39.35	43.50	-4.15	Vertical
291.8999	60.12	-18.04	42.08	46.00	-3.92	Vertical
960.2300	46.01	-5.26	40.75	54.00	-13.25	Vertical
177.4399	61.02	-21.03	39.99	43.50	-3.51	Horizontal
329.7300	58.36	-16.69	41.67	46.00	-4.33	Horizontal
960.2300	46.65	-5.26	41.39	54.00	-12.61	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	46.25	49.33	-0.08	46.17	49.25	54	74	-7.83	-24.75	Vertical
4874.000	48.94	48.94	-0.08	48.86	48.86	54	74	-5.14	-25.14	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 5, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	PC436	Power Supply:	DC 5V
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Allen

**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	
176.4699	59.44	-21.05	38.39	43.50	-5.11	Vertical
326.8199	58.03	-16.75	41.28	46.00	-4.72	Vertical
960.2300	46.10	-5.26	40.84	54.00	-13.16	Vertical
183.2599	62.01	-21.55	40.46	43.50	-3.04	Horizontal
281.2300	58.88	-18.26	40.62	46.00	-5.38	Horizontal
960.2300	45.87	-5.26	40.61	54.00	-13.39	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	45.19	48.21	0.30	45.49	48.51	54	74	-8.51	-25.49	Vertical
4924.000	44.25	47.74	0.30	44.55	48.04	54	74	-9.45	-25.96	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:	<u>Mar 5, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
	<u>802.11n Channel Low 2412MHz</u>		
Test Mode:	<u>(20MHz)</u>	Test Engineer:	<u>Allen</u>

**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	
176.4699	60.38	-21.05	39.33	43.50	-4.17	Vertical
329.7300	58.24	-16.69	41.55	46.00	-4.45	Vertical
960.2300	46.02	-5.26	40.76	54.00	-13.24	Vertical
182.2899	61.24	-21.63	39.61	43.50	-3.89	Horizontal
291.8999	59.12	-18.04	41.08	46.00	-4.92	Horizontal
960.2300	46.21	-5.26	40.95	54.00	-13.05	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	44.54	47.53	-0.31	44.23	47.22	54	74	-9.77	-26.78	Vertical
4824.000	46.35	49.26	-0.31	46.04	48.95	54	74	-7.96	-25.05	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:	<u>Mar 5, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
	<u>802.11n Channel Middle 2437MHz</u>		
Test Mode:	<u>(20MHz)</u>	Test Engineer:	<u>Allen</u>

**For Below 30MHz**

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor(dB) Corr.	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/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 (dB $\mu$ V/m)	Factor Corr. (dB)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
177.4399	60.10	-21.03	39.07	43.50	-4.43	Vertical
329.7300	58.03	-16.69	41.34	46.00	-4.66	Vertical
960.2300	46.41	-5.26	41.15	54.00	-12.85	Vertical
176.4699	61.32	-22.19	39.13	43.50	-4.37	Horizontal
291.8999	60.05	-18.04	42.01	46.00	-3.99	Horizontal
960.2300	46.15	-5.26	40.89	54.00	-13.11	Horizontal

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor Corr. (dB)	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB $\mu$ V/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4874.000	45.87	48.66	-0.08	45.79	48.58	54	74	-8.21	-25.42	Vertical
4874.000	45.24	48.23	-0.08	45.16	48.15	54	74	-8.84	-25.85	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:	<u>Mar 5, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>802.11n Channel High 2462MHz</u> <u>(20MHz)</u>	Test Engineer:	<u>Allen</u>

**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	
176.4699	59.12	-21.05	38.07	43.50	-5.43	Vertical
326.8199	57.36	-16.75	40.61	46.00	-5.39	Vertical
960.2300	46.45	-5.26	41.19	54.00	-12.81	Vertical
176.4699	61.78	-22.19	39.59	43.50	-3.91	Horizontal
285.1099	60.35	-18.17	42.18	46.00	-3.82	Horizontal
960.2300	46.03	-5.26	40.77	54.00	-13.23	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	44.36	47.23	0.30	44.66	47.53	54	74	-9.34	-26.47	Vertical
4924.000	45.36	48.41	0.30	45.66	48.71	54	74	-8.34	-25.29	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:	<u>Mar 5, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>802.11n Channel Low 2422MHz (40MHz)</u>	Test Engineer:	<u>Allen</u>

**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	
172.5900	58.63	-21.11	37.52	43.50	-5.98	Vertical
318.0899	57.12	-16.90	40.22	46.00	-5.78	Vertical
960.2300	46.38	-5.26	41.12	54.00	-12.88	Vertical
171.6200	63.25	-22.64	40.61	43.50	-2.89	Horizontal
283.1700	58.12	-18.21	39.91	46.00	-6.09	Horizontal
960.2300	47.20	-5.26	41.94	54.00	-12.06	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	
4844.000	44.89	47.74	-0.31	44.58	47.43	54	74	-9.42	-26.57	Vertical
4844.000	46.35	49.31	-0.31	46.04	49.00	54	74	-7.96	-25.00	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:	<u>Mar 5, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
	<u>802.11n Channel Middle 2437MHz</u>		
Test Mode:	<u>(40MHz)</u>	Test Engineer:	<u>Allen</u>

**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	
177.4399	57.65	-21.03	36.62	43.50	-6.88	Vertical
340.3999	56.55	-16.43	40.12	46.00	-5.88	Vertical
960.2300	46.36	-5.26	41.10	54.00	-12.90	Vertical
181.3199	60.32	-21.72	38.60	43.50	-4.90	Horizontal
283.1700	59.01	-18.21	40.80	46.00	-5.20	Horizontal
960.2300	46.35	-5.26	41.09	54.00	-12.91	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	45.68	48.49	-0.08	45.60	48.41	54	74	-8.40	-25.59	Vertical
4874.000	45.86	48.74	-0.08	45.78	48.66	54	74	-8.22	-25.34	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:	<u>Mar 5, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>PC436</u>	Power Supply:	<u>DC 5V</u>
Test Mode:	<u>802.11n Channel High 2452MHz</u> <u>(40MHz)</u>	Test Engineer:	<u>Allen</u>

**For Below 30MHz**

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor(dB) Corr.	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/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 (dB $\mu$ V/m)	Factor Corr. (dB)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
176.4699	61.86	-21.05	40.81	43.50	-2.69	Vertical
335.5500	58.10	-16.53	41.57	46.00	-4.43	Vertical
960.2300	46.32	-5.26	41.06	54.00	-12.94	Vertical
183.2599	61.36	-21.55	39.81	43.50	-3.69	Horizontal
281.2300	60.89	-18.26	42.63	46.00	-3.37	Horizontal
960.2300	47.32	-5.26	42.06	54.00	-11.94	Horizontal

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor Corr. (dB)	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB $\mu$ V/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4904.000	44.64	47.08	0.30	44.95	47.38	54	74	-9.05	-26.62	Vertical
4904.00	44.69	47.96	0.30	44.99	48.26	54	74	-9.01	-25.74	Horizontal

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



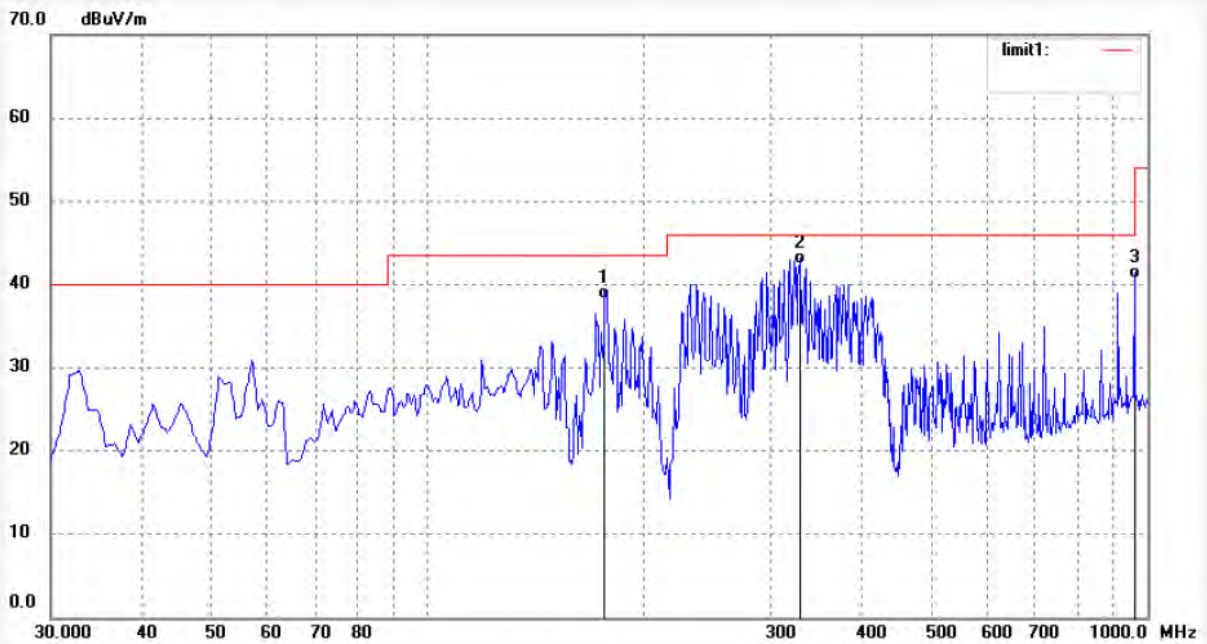
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #213	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/15/23
EUT: MID	Engineer Signature: alen
Mode: TX 2412MHz(802.11b)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	59.35	-21.05	38.30	43.50	-5.20	QP			
2	329.7300	59.10	-16.69	42.41	46.00	-3.59	QP			
3	960.2300	45.87	-5.26	40.61	54.00	-13.39	QP			



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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #214	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/16/15
EUT: MID	Engineer Signature: alen
Mode: TX 2412MHz(802.11b)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	61.32	-22.19	39.13	43.50	-4.37	QP			
2	291.8999	58.55	-18.04	40.51	46.00	-5.49	QP			
3	960.2300	46.06	-5.26	40.80	54.00	-13.20	QP			



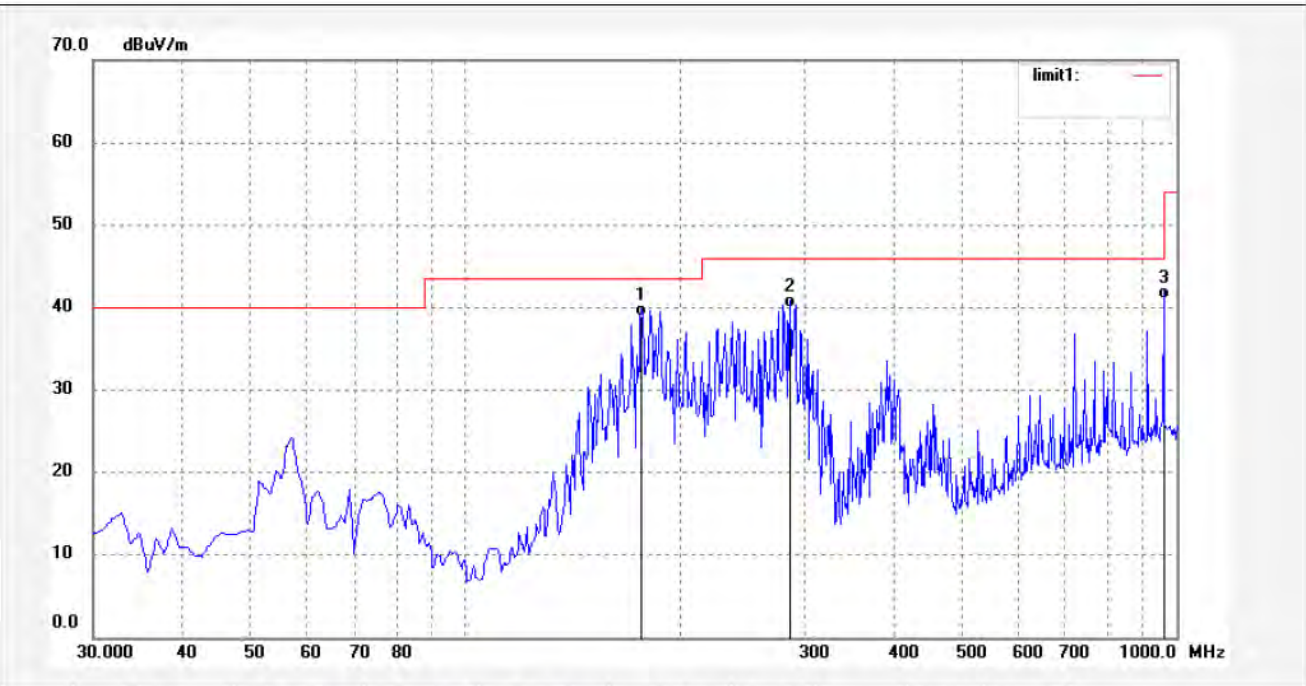
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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #215	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/16/35
EUT: MID	Engineer Signature: alen
Mode: TX 2412MHz(802.11g)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	177.4399	61.10	-22.09	39.01	43.50	-4.49	QP			
2	286.0799	58.10	-18.15	39.95	46.00	-6.05	QP			
3	960.2300	46.31	-5.26	41.05	54.00	-12.95	QP			



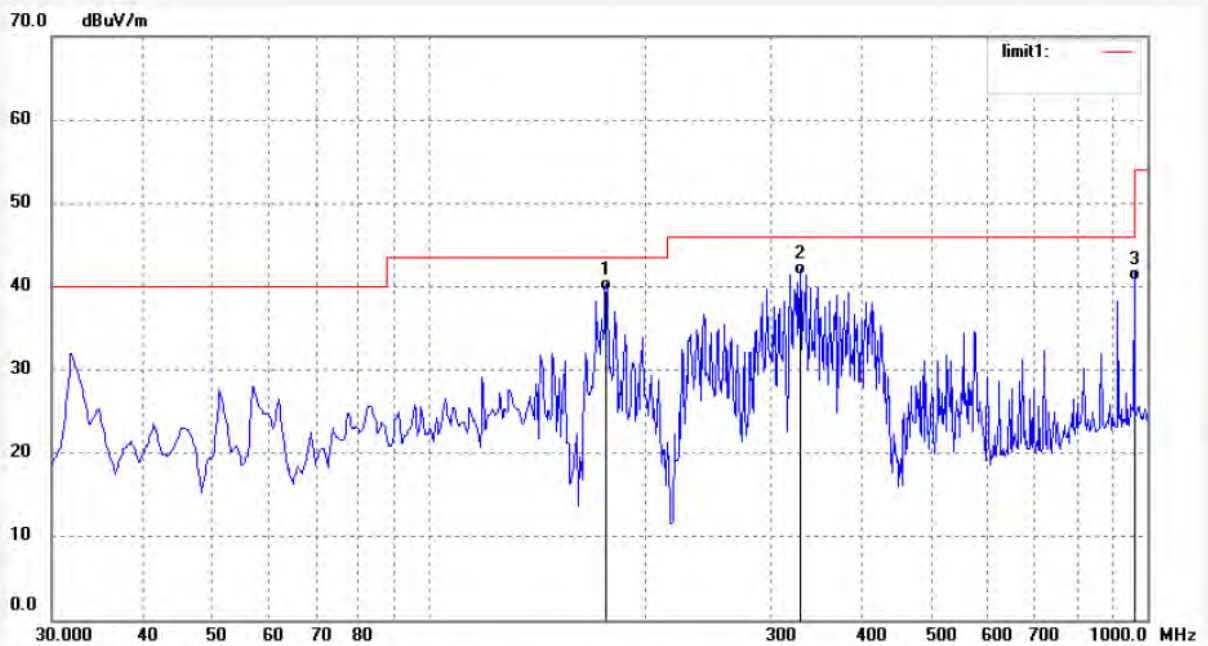
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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #216	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/18/06
EUT: MID	Engineer Signature: alen
Mode: TX 2412MHz(802.11g)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	177.4399	60.41	-21.03	39.38	43.50	-4.12	QP			
2	329.7300	58.02	-16.69	41.33	46.00	-4.67	QP			
3	960.2300	46.02	-5.26	40.76	54.00	-13.24	QP			



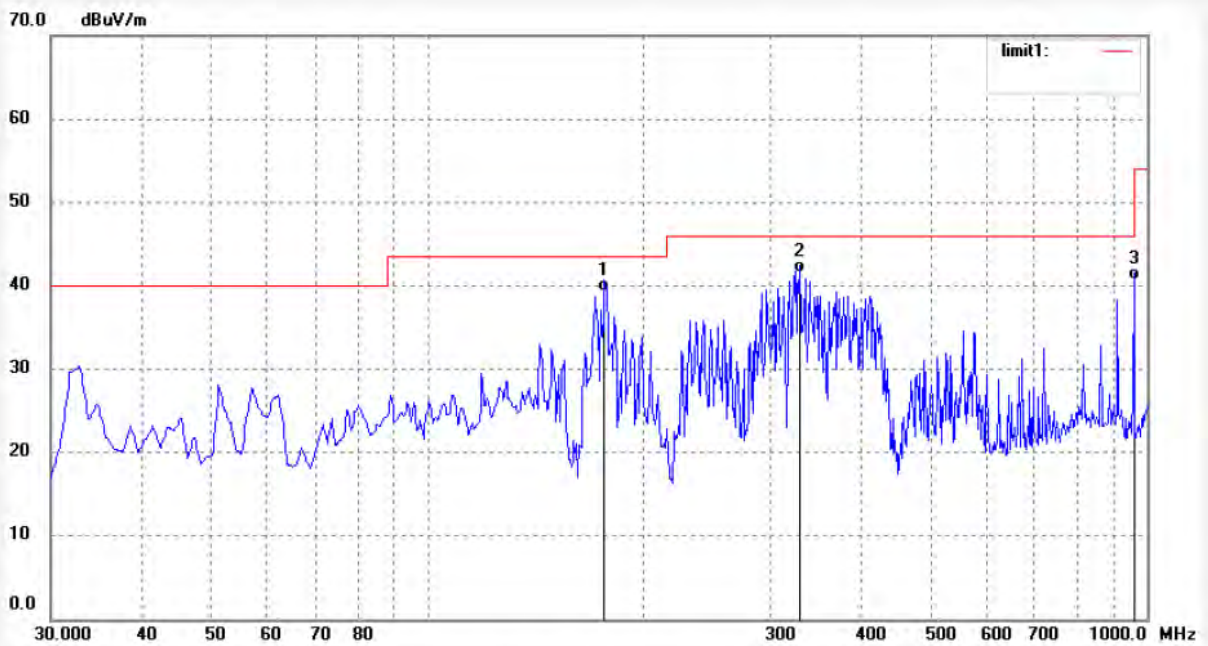
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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #217	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/18/53
EUT: MID	Engineer Signature: alen
Mode: TX 2412MHz(802.11n)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	60.38	-21.05	39.33	43.50	-4.17	QP			
2	329.7300	58.24	-16.69	41.55	46.00	-4.45	QP			
3	960.2300	46.02	-5.26	40.76	54.00	-13.24	QP			



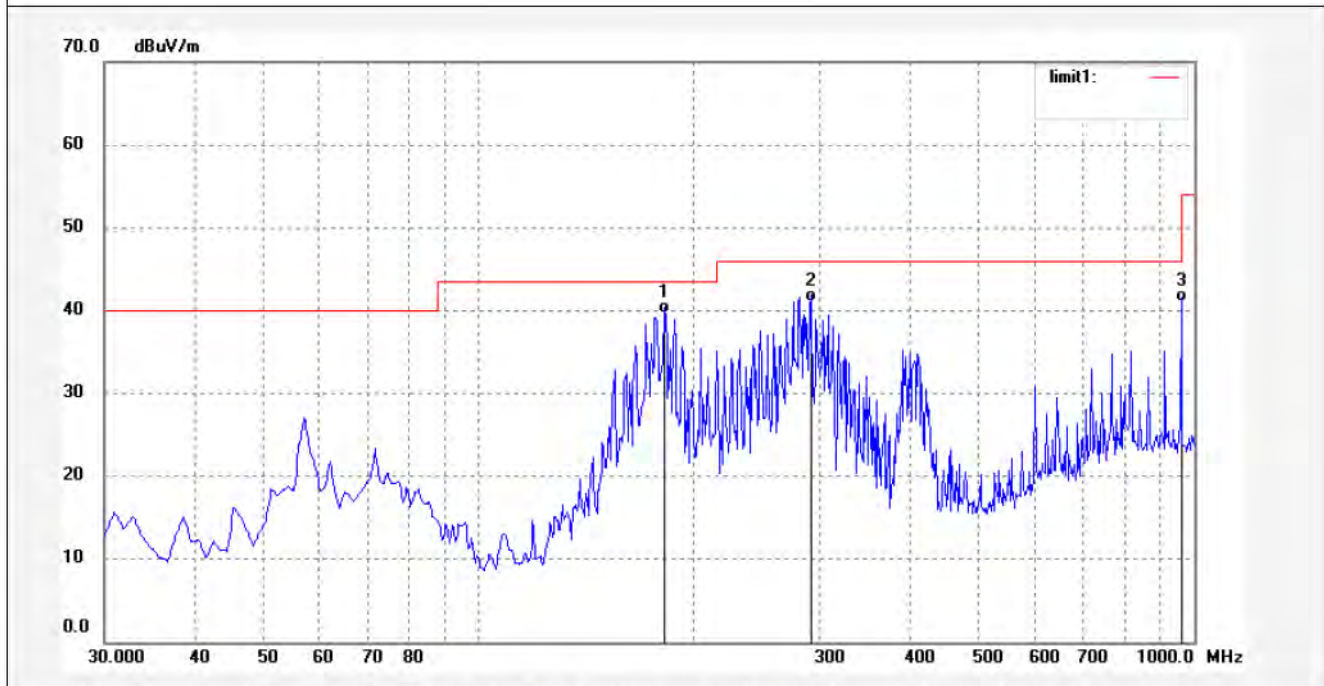
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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #218	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/19/26
EUT: MID	Engineer Signature: alen
Mode: TX 2412MHz(802.11n)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	182.2899	61.24	-21.63	39.61	43.50	-3.89	QP			
2	291.8999	59.12	-18.04	41.08	46.00	-4.92	QP			
3	960.2300	46.21	-5.26	40.95	54.00	-13.05	QP			





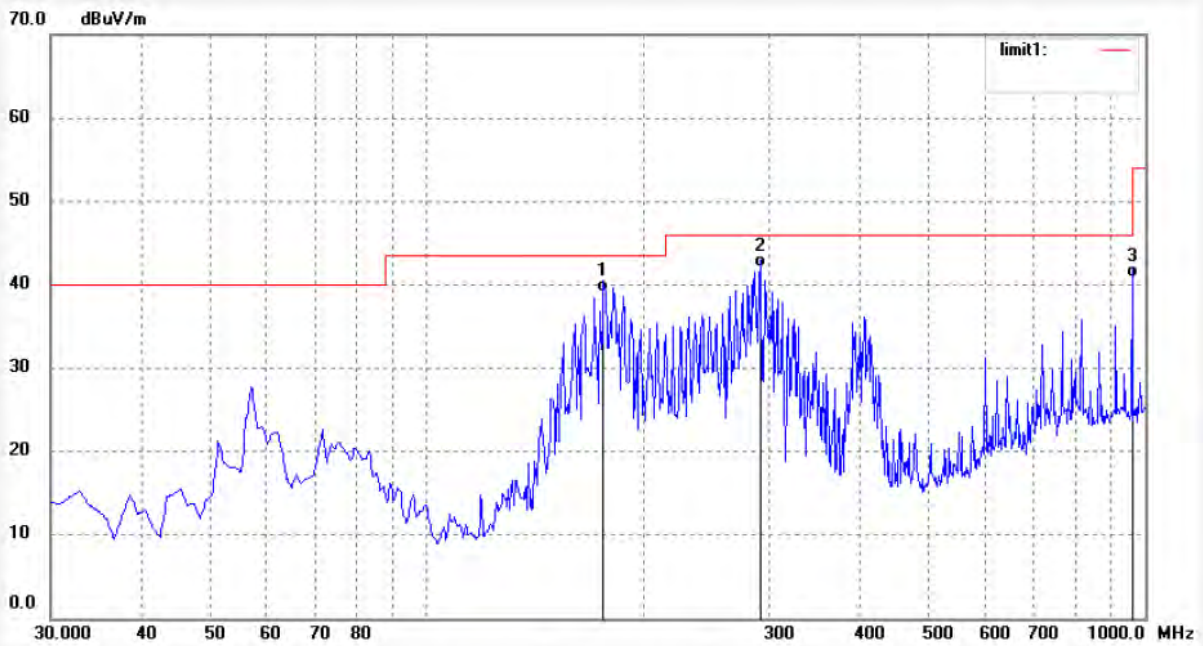
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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #219	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/19/49
EUT: MID	Engineer Signature: alen
Mode: TX 2437MHz(802.11n)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	61.32	-22.19	39.13	43.50	-4.37	QP			
2	291.8999	60.05	-18.04	42.01	46.00	-3.99	QP			
3	960.2300	46.15	-5.26	40.89	54.00	-13.11	QP			



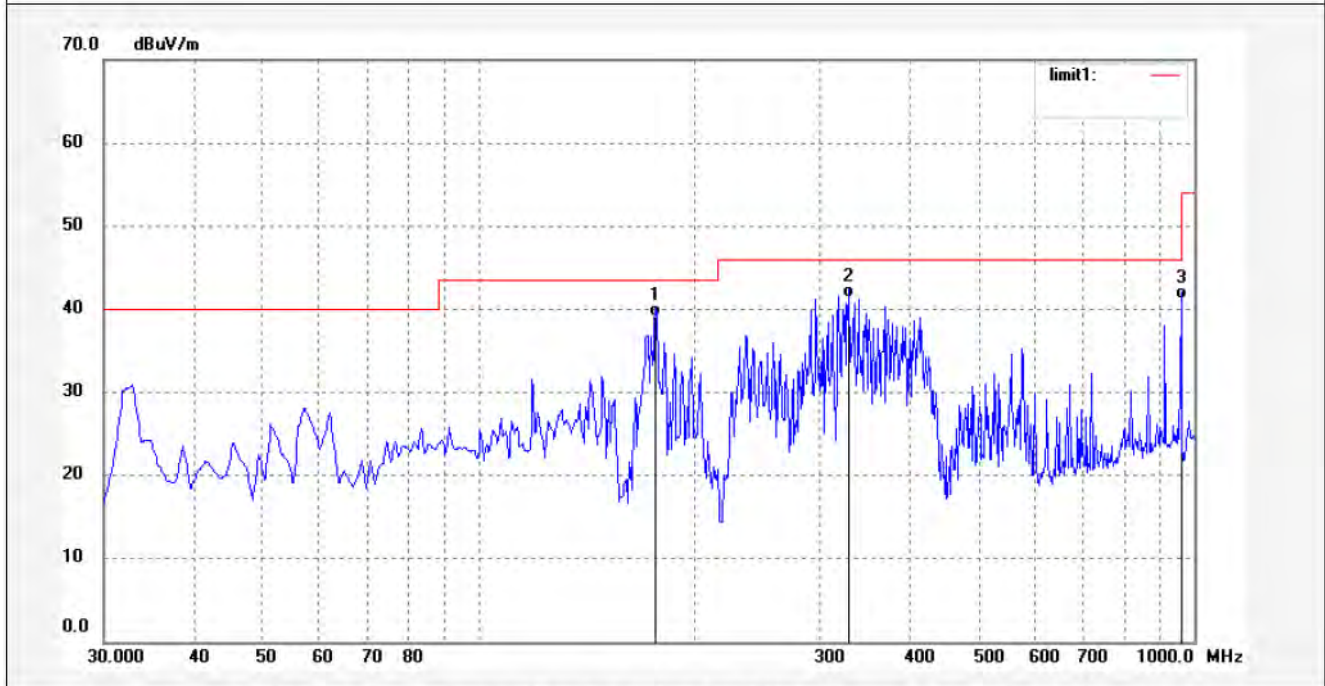
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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #220	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/20/39
EUT: MID	Engineer Signature: alen
Mode: TX 2437MHz(802.11n)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	177.4399	60.10	-21.03	39.07	43.50	-4.43	QP			
2	329.7300	58.03	-16.69	41.34	46.00	-4.66	QP			
3	960.2300	46.41	-5.26	41.15	54.00	-12.85	QP			



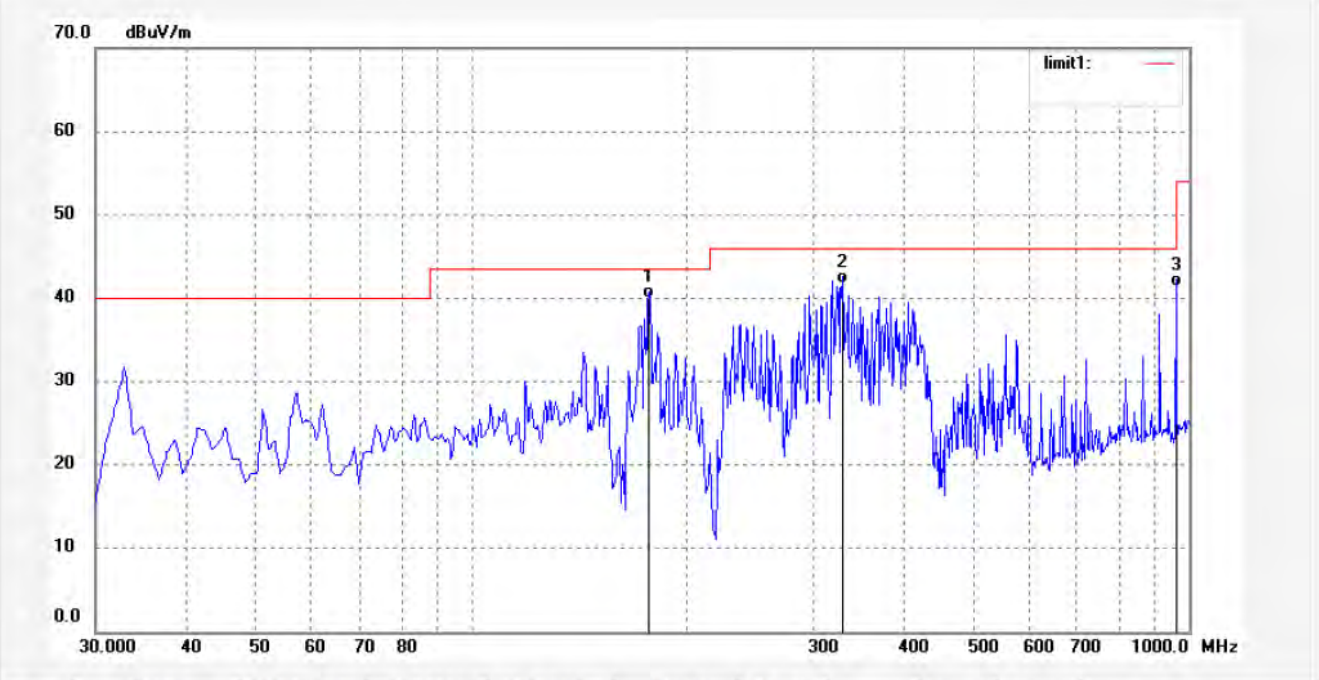
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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #221	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/21/10
EUT: MID	Engineer Signature: alen
Mode: TX 2437MHz(802.11g)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	177.4399	61.02	-21.03	39.99	43.50	-3.51	QP			
2	329.7300	58.36	-16.69	41.67	46.00	-4.33	QP			
3	960.2300	46.65	-5.26	41.39	54.00	-12.61	QP			



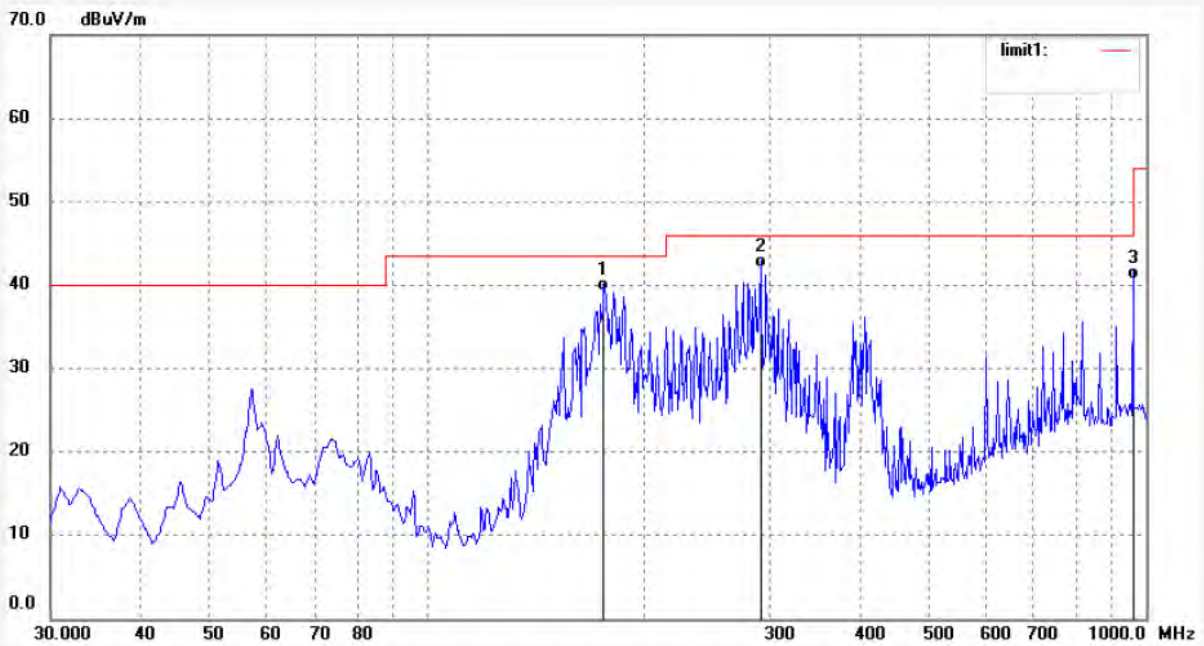
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #222	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/21/43
EUT: MID	Engineer Signature: alen
Mode: TX 2437MHz(802.11g)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	61.54	-22.19	39.35	43.50	-4.15	QP			
2	291.8999	60.12	-18.04	42.08	46.00	-3.92	QP			
3	960.2300	46.01	-5.26	40.75	54.00	-13.25	QP			



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Site: 1# Chamber  
Tel:+86-0755-26503290  
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Job No.: alen #223	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/22/10
EUT: MID	Engineer Signature: alen
Mode: TX 2437MHz(802.11b)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	61.68	-22.19	39.49	43.50	-4.01	QP			
2	291.8999	60.01	-18.04	41.97	46.00	-4.03	QP			
3	960.2300	46.24	-5.26	40.98	54.00	-13.02	QP			



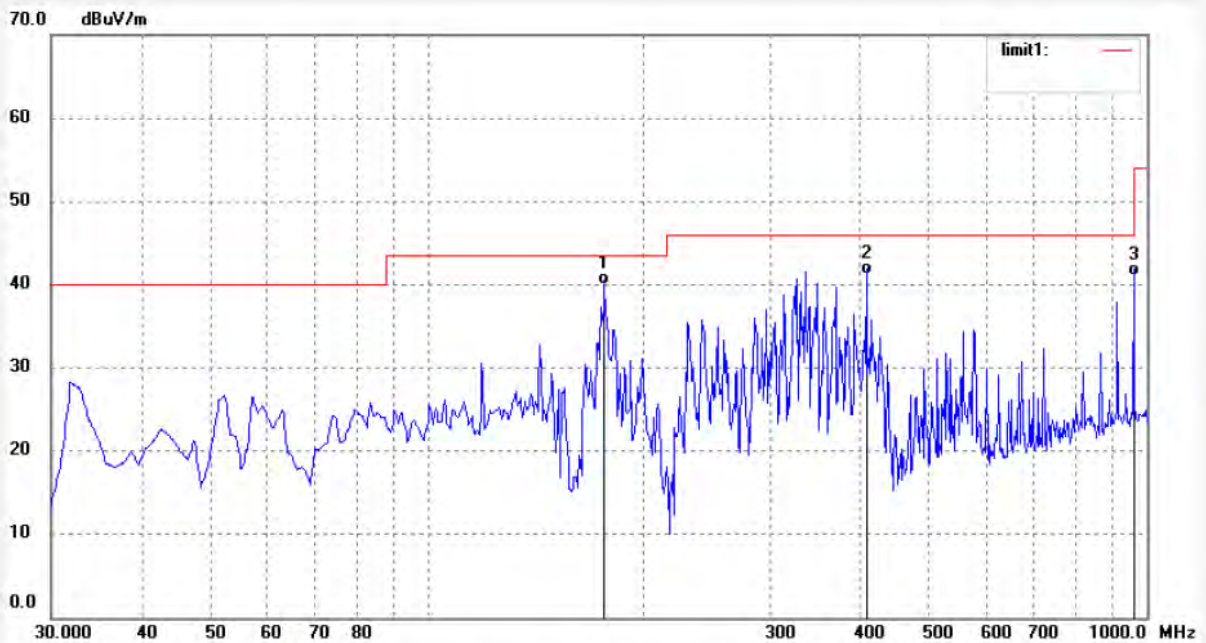
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #224	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/24/14
EUT: MID	Engineer Signature: alen
Mode: TX 2437MHz(802.11b)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	61.12	-21.05	40.07	43.50	-3.43	QP			
2	408.3000	55.89	-14.73	41.16	46.00	-4.84	QP			
3	960.2300	46.35	-5.26	41.09	54.00	-12.91	QP			



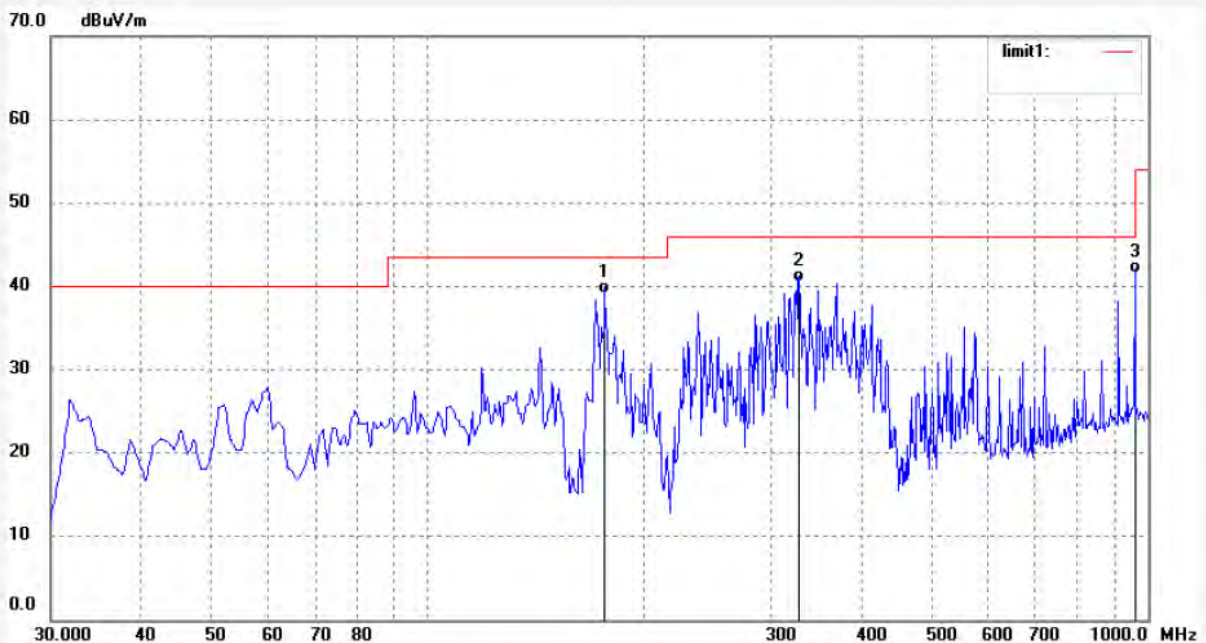
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #225	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/24/41
EUT: MID	Engineer Signature: alen
Mode: TX 2462MHz(802.11b)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	60.19	-21.05	39.14	43.50	-4.36	QP			
2	328.7599	57.21	-16.72	40.49	46.00	-5.51	QP			
3	960.2300	46.78	-5.26	41.52	54.00	-12.48	QP			



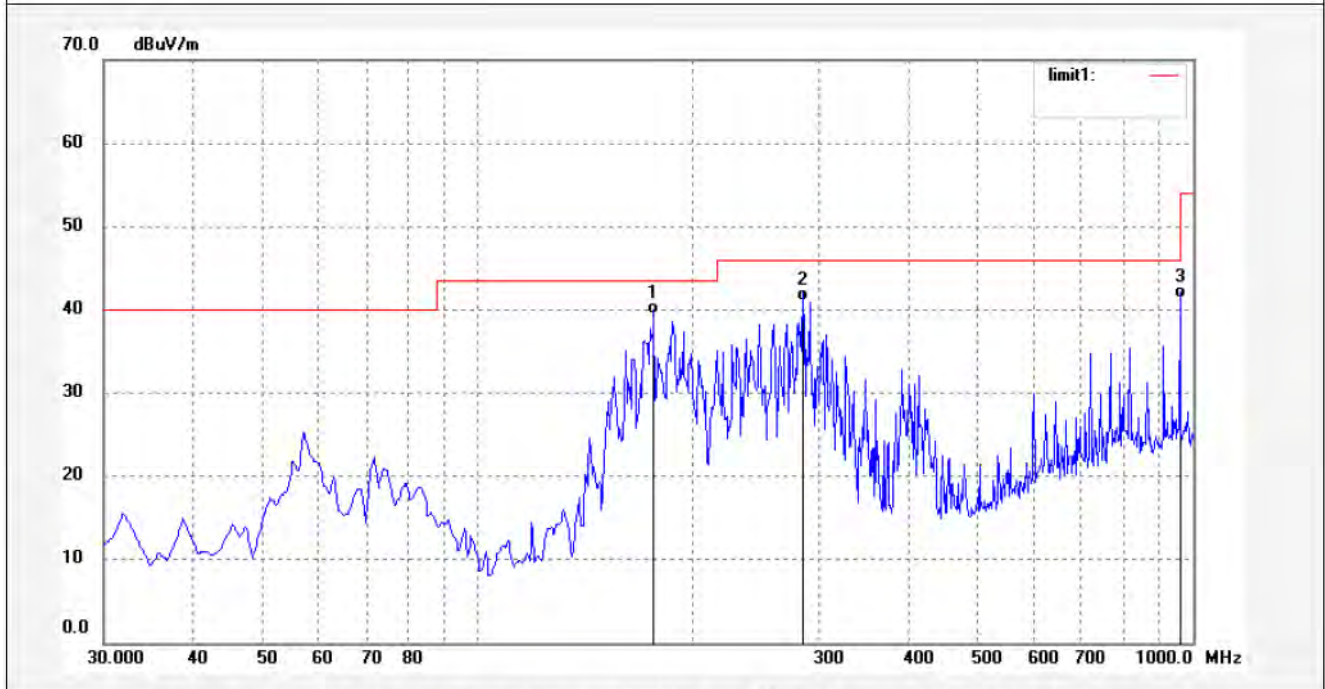
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #226	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/25/17
EUT: MID	Engineer Signature: alen
Mode: TX 2462MHz(802.11b)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	61.68	-22.19	39.49	43.50	-4.01	QP			
2	285.1099	59.24	-18.17	41.07	46.00	-4.93	QP			
3	960.2300	46.65	-5.26	41.39	54.00	-12.61	QP			





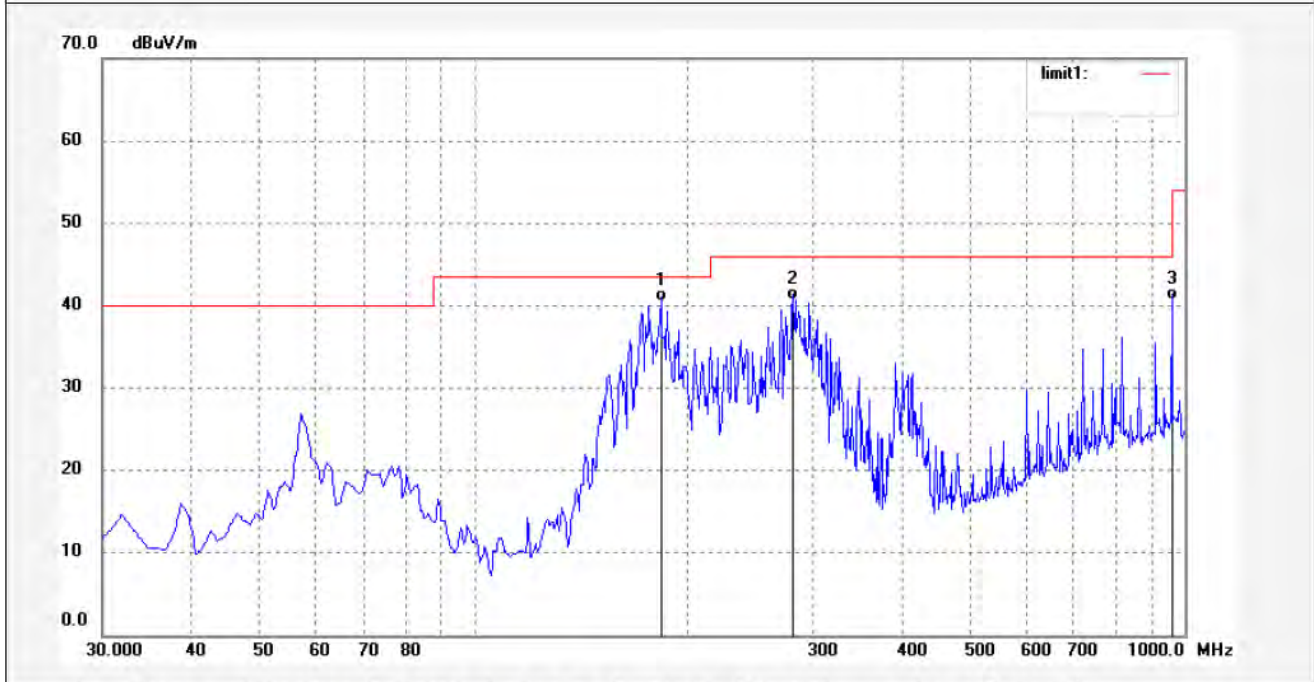
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #227	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/25/40
EUT: MID	Engineer Signature: alen
Mode: TX 2462MHz(802.11g)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	183.2599	62.01	-21.55	40.46	43.50	-3.04	QP			
2	281.2300	58.88	-18.26	40.62	46.00	-5.38	QP			
3	960.2300	45.87	-5.26	40.61	54.00	-13.39	QP			



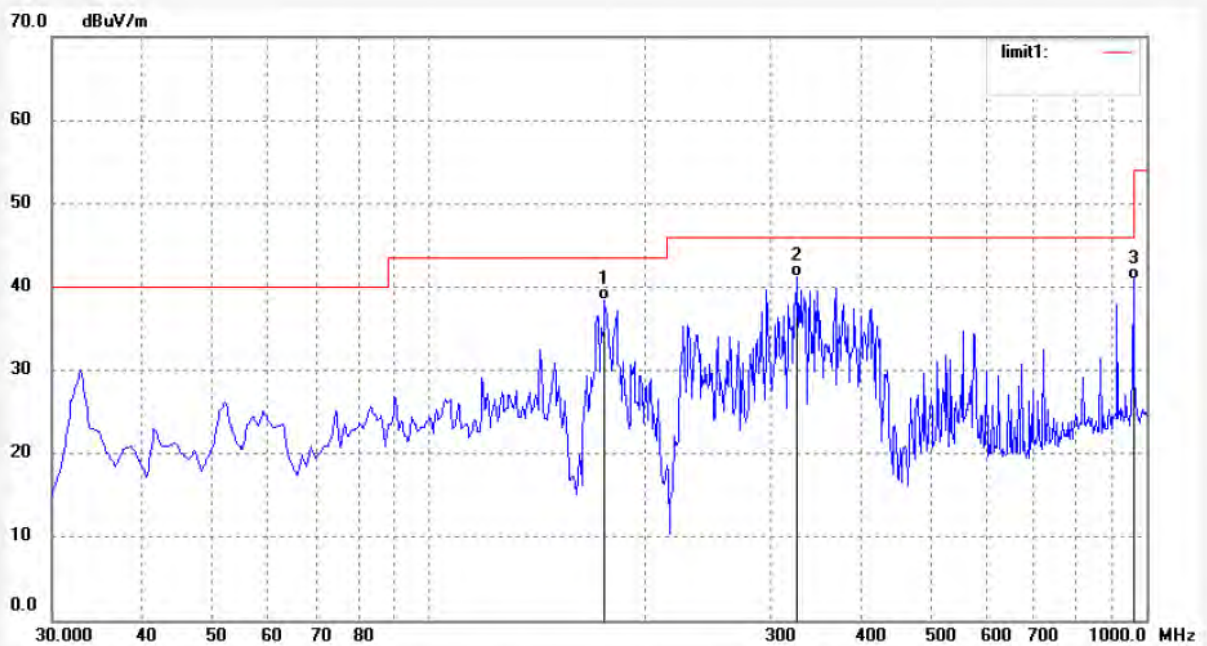
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #228	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/26/21
EUT: MID	Engineer Signature: alen
Mode: TX 2462MHz(802.11g)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	59.44	-21.05	38.39	43.50	-5.11	QP			
2	326.8199	58.03	-16.75	41.28	46.00	-4.72	QP			
3	960.2300	46.10	-5.26	40.84	54.00	-13.16	QP			



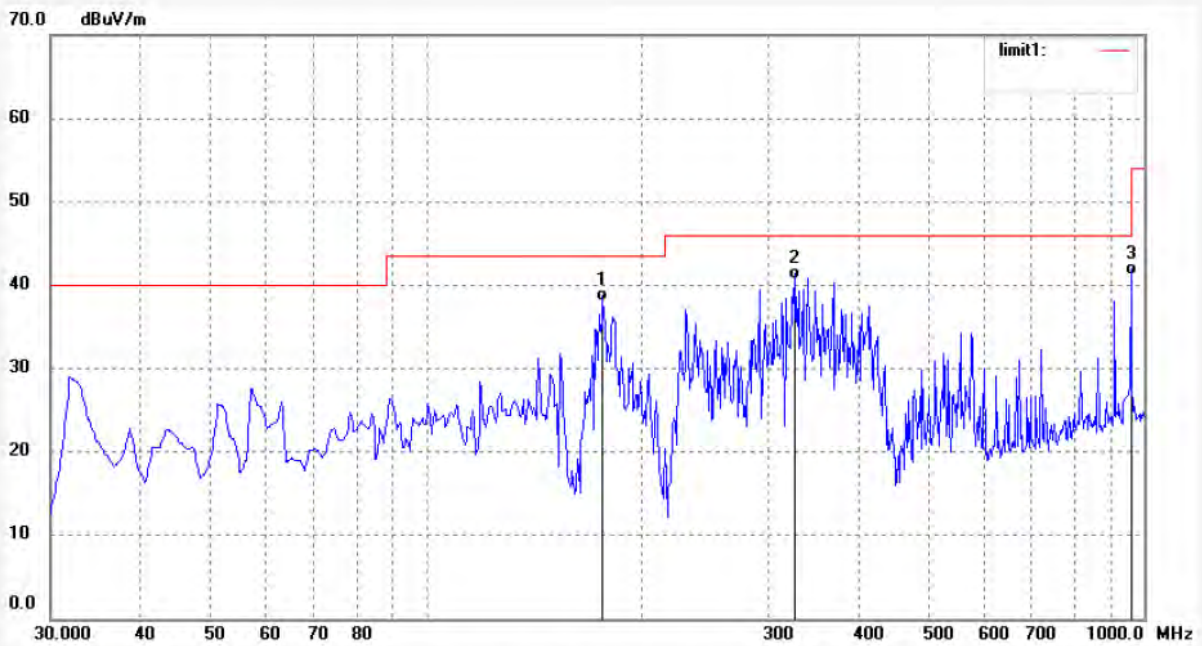
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #229	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/26/38
EUT: MID	Engineer Signature: alen
Mode: TX 2462MHz(802.11n)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	59.12	-21.05	38.07	43.50	-5.43	QP			
2	326.8199	57.36	-16.75	40.61	46.00	-5.39	QP			
3	960.2300	46.45	-5.26	41.19	54.00	-12.81	QP			



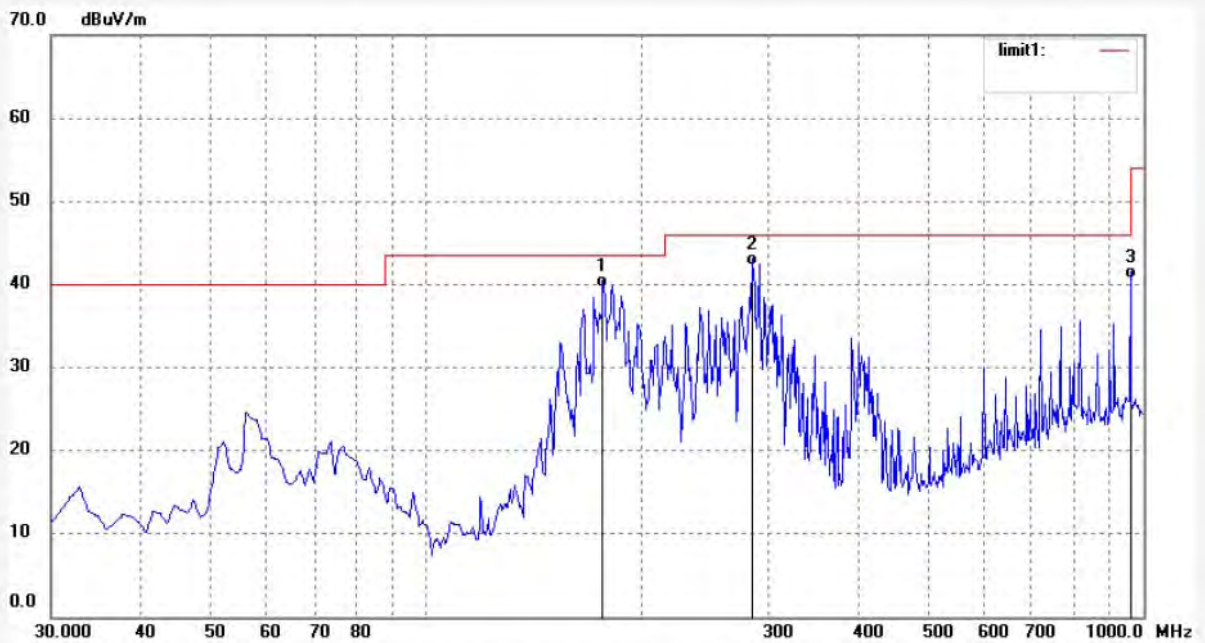
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #230	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/27/15
EUT: MID	Engineer Signature: alen
Mode: TX 2462MHz(802.11n)	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	61.78	-22.19	39.59	43.50	-3.91	QP			
2	285.1099	60.35	-18.17	42.18	46.00	-3.82	QP			
3	960.2300	46.03	-5.26	40.77	54.00	-13.23	QP			



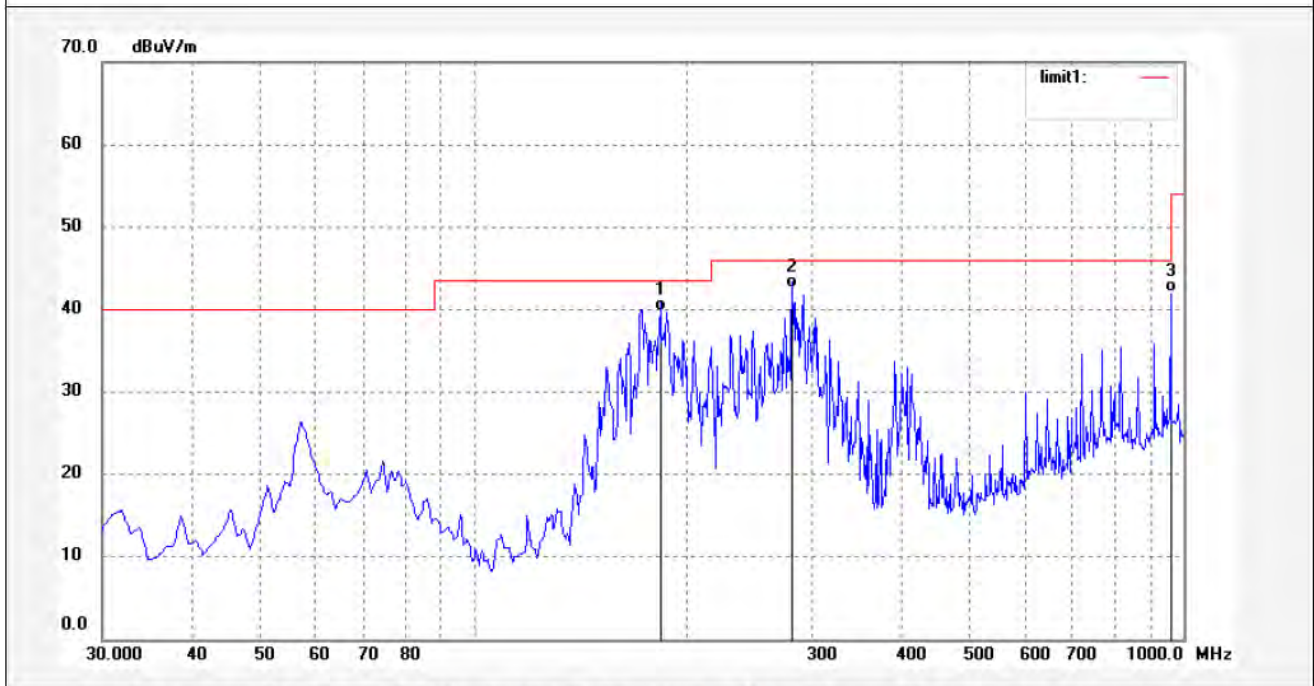
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #231	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/27/45
EUT: MID	Engineer Signature: alen
Mode: TX 2452MHz(802.11n)40MHz	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	183.2599	61.36	-21.55	39.81	43.50	-3.69	QP			
2	281.2300	60.89	-18.26	42.63	46.00	-3.37	QP			
3	960.2300	47.32	-5.26	42.06	54.00	-11.94	QP			



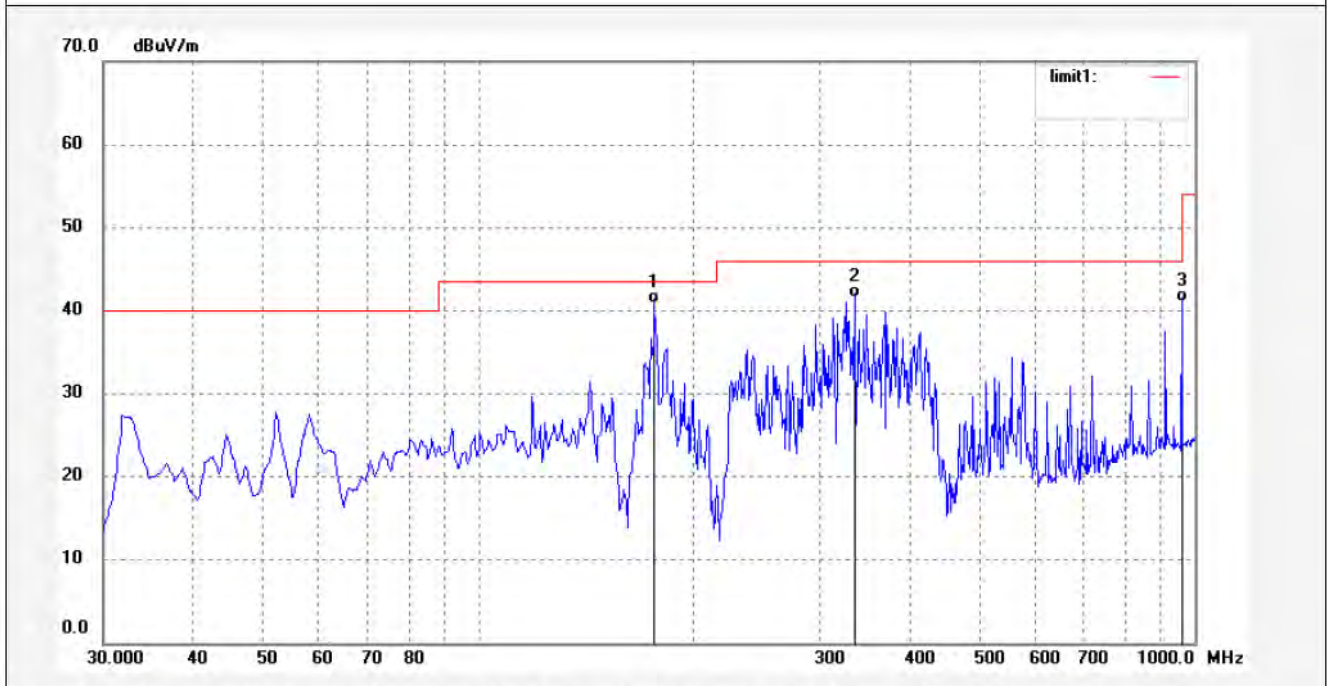
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #232	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/28/15
EUT: MID	Engineer Signature: alen
Mode: TX 2452MHz(802.11n)40MHz	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.4699	61.86	-21.05	40.81	43.50	-2.69	QP			
2	335.5500	58.10	-16.53	41.57	46.00	-4.43	QP			
3	960.2300	46.32	-5.26	41.06	54.00	-12.94	QP			



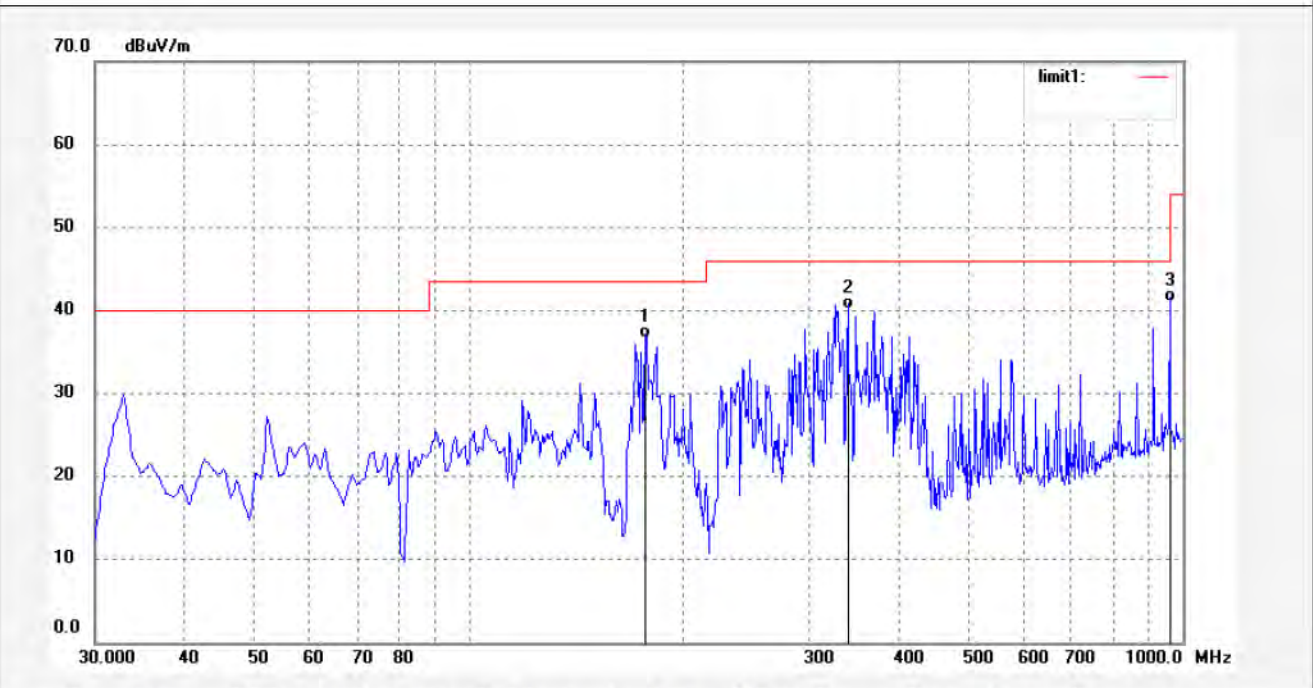
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #233	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/28/30
EUT: MID	Engineer Signature: alen
Mode: TX 2437MHz(802.11n)40MHz	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	177.4399	57.65	-21.03	36.62	43.50	-6.88	QP			
2	340.3999	56.55	-16.43	40.12	46.00	-5.88	QP			
3	960.2300	46.36	-5.26	41.10	54.00	-12.90	QP			



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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #234	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/29/19
EUT: MID	Engineer Signature: alen
Mode: TX 2437MHz(802.11n)40MHz	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	181.3199	60.32	-21.72	38.60	43.50	-4.90	QP			
2	283.1700	59.01	-18.21	40.80	46.00	-5.20	QP			
3	960.2300	46.35	-5.26	41.09	54.00	-12.91	QP			





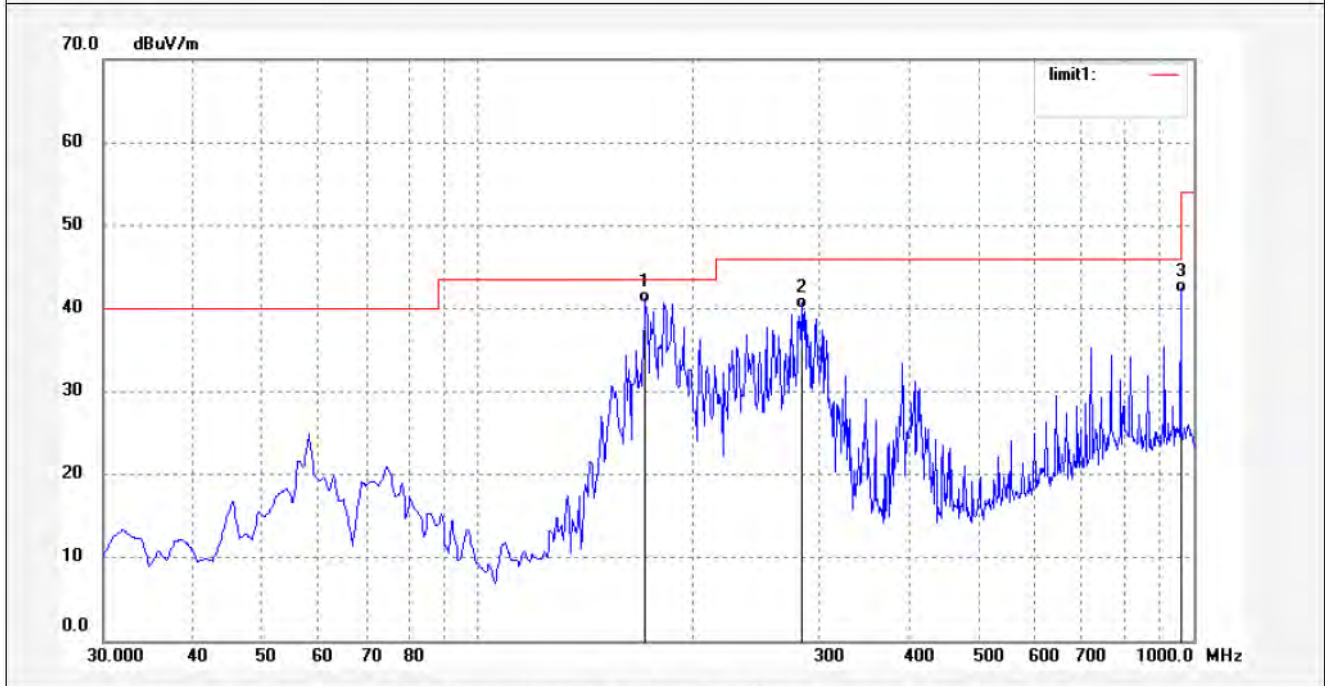
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #235	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/29/33
EUT: MID	Engineer Signature: alen
Mode: TX 2422MHz(802.11n)40MHz	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	171.6200	63.25	-22.64	40.61	43.50	-2.89	QP			
2	283.1700	58.12	-18.21	39.91	46.00	-6.09	QP			
3	960.2300	47.20	-5.26	41.94	54.00	-12.06	QP			



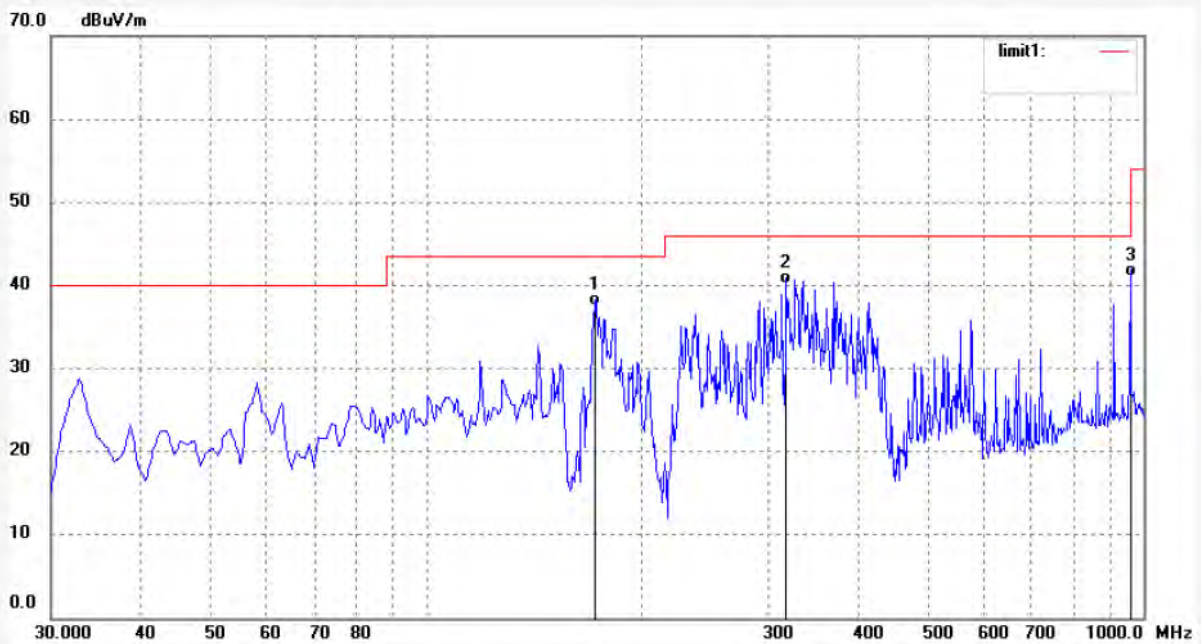
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #236	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: USB 5V
Test item: Radiation Test	Date: 13/03/05/
Temp.( C)/Hum.(%) 26 C / 60 %	Time: 14/30/21
EUT: MID	Engineer Signature: alen
Mode: TX 2422MHz(802.11n)40MHz	Distance: 3m
Model: PC436	
Manufacturer: Natural Sound	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	172.5900	58.63	-21.11	37.52	43.50	-5.98	QP			
2	318.0899	57.12	-16.90	40.22	46.00	-5.78	QP			
3	960.2300	46.38	-5.26	41.12	54.00	-12.88	QP			