

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
Shenzhen Sungworld Electronics Co., Ltd.

MID
Model No.: VX-S7001, M7XXXXXX, VX-SXXXXX

FCC ID: W13-VX-S7001

Prepared for : Shenzhen Sungworld Electronics Co., Ltd.
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Report Number : ATE20130172
Date of Test : January 29-February 7, 2013
Date of Report : February 8, 2013

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Test Report Certification

Applicant : Shenzhen Sungworld Electronics Co., Ltd.

Manufacturer : Shenzhen Sungworld Electronics Co., Ltd.

EUT Description : MID

(A) MODEL NO.: VX-S7001, M7XXXXXX, VX-SXXXX

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 3.7V (Li-polymer battery) & DC 5V (Power by Adapter)

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.4: 2009**

The EUT was tested according to DTS test procedure of October 04, 2012 KDB558074 D01 DTS Meas Guidance v02 for compliance to FCC 47CFR 15.247 requirements

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 : January 29-February 7, 2013

Prepared by : Apple Lv
(Engineer)

Approved & Authorized Signer : [Signature]
(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	MID
Model Number	:	VX-S7001, M7XXXXXX, VX-SXXXXX (Note: These samples are same except for the model number is difference. So we prepare the VX-S7001, for FCC test.)
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 (Power by adapter)
Adapter	:	Model number: WYT-0520 Input: AC 100-240V; 50/60Hz 0.3A Output: DC 5V/2.0A
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	:	Shenzhen Sungworld Electronics Co., Ltd.
Address	:	4#, North District, Shangxue Industrial Park, Bantian, Long Gang District, Shenzhen, China
Manufacturer	:	Shenzhen Sungworld Electronics Co., Ltd.
Address	:	4#, North District, Shangxue Industrial Park, Bantian, Long Gang District, Shenzhen, China
Date of sample received	:	January 29, 2013
Date of Test	:	January 29-February 7, 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. Test Procedure

The EUT was tested according to DTS test procedure of October 04, 2012 KDB558074 D01 DTS Meas Guidance v02 for compliance to FCC 47CFR 15.247 requirements

1.4. Special Accessory and Auxiliary Equipment

n.a.

1.5. 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

1.6. 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. 6, 2013	Feb. 5, 2014
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Feb. 6, 2013	Feb. 5, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Feb. 6, 2013	Feb. 5, 2014
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Feb. 6, 2013	Feb. 5, 2014
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 12, 2013	Jan. 11, 2014
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 12, 2013	Jan. 11, 2014
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 12, 2013	Jan. 11, 2014
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 12, 2013	Jan. 11, 2014

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: **1.802.11b Transmitting mode**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

2.802.11g Transmitting mode

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

3.802.11n (20MHz) Transmitting mode

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

4.802.11n (40MHz) Transmitting mode

Low Channel: 2422MHz

Middle Channel: 2437MHz

High Channel: 2452MHz

5. Charging

3.2.Configuration and peripherals

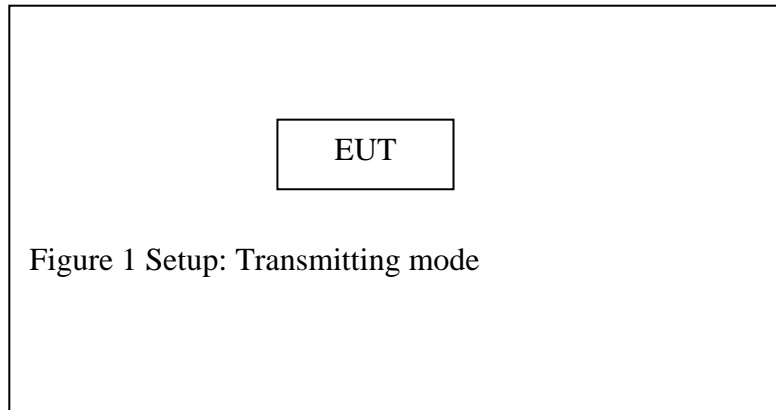


Figure 1 Setup: Transmitting mode

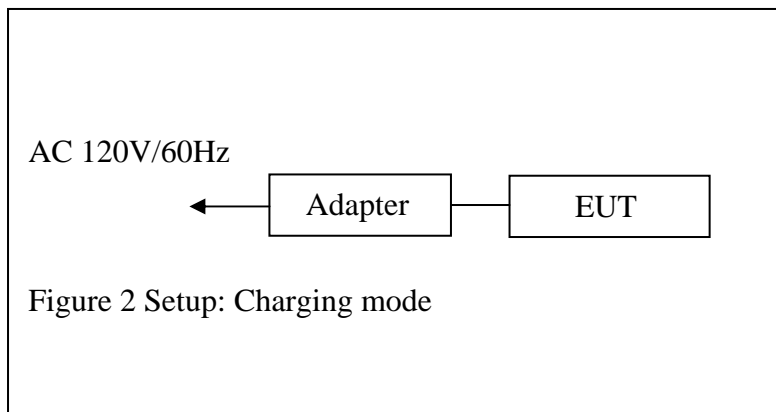


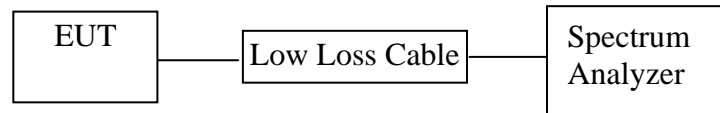
Figure 2 Setup: Charging mode

4. TEST PROCEDURES AND RESULTS

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

5. 6DB BANDWIDTH MEASUREMENT

5.1. Block Diagram of Test Setup



(EUT: 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 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.

5.3.1. MID (EUT)

Model Number	:	VX-S7001
Serial Number	:	N/A
Manufacturer	:	Shenzhen Sungworld 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

1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.6. Test Result

PASS.

Date of Test:	<u>February 2, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>VX-S7001</u>	Power Supply:	<u>AC 120V/60HZ</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Pei</u>

The test was performed with 802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	8.08	> 0.5MHz
Middle	2437	8.04	> 0.5MHz
High	2462	8.08	> 0.5MHz

The test was performed with 802.11g

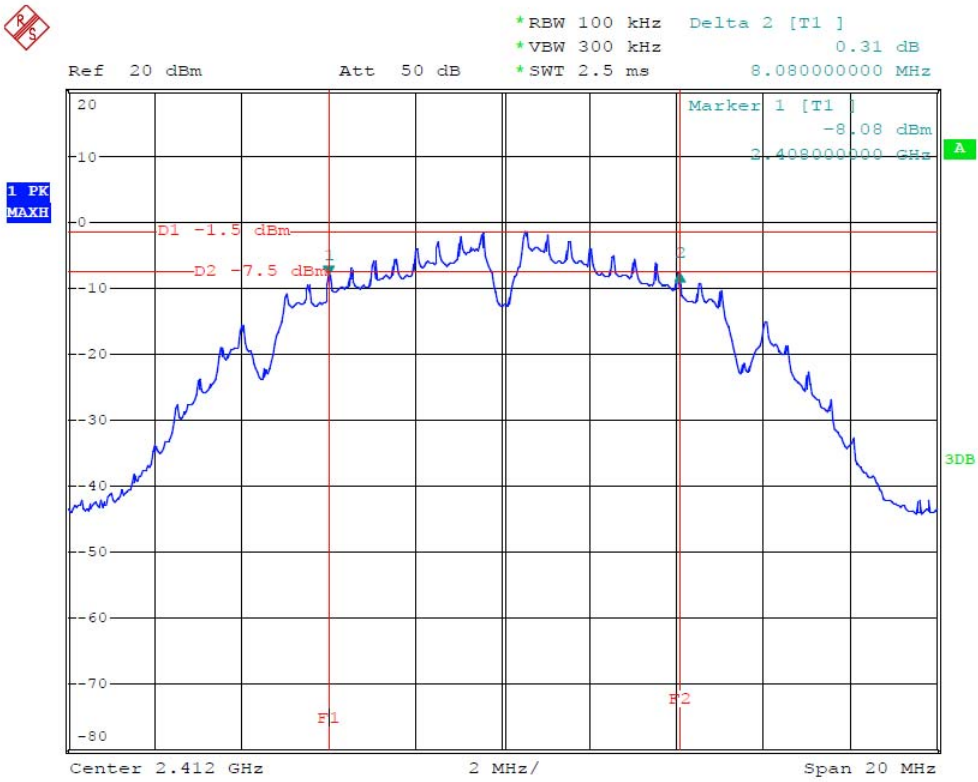
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	15.16	> 0.5MHz
Middle	2437	15.44	> 0.5MHz
High	2462	15.44	> 0.5MHz

The test was performed with 802.11n (Bandwidth: 20 MHz)			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.08	> 0.5MHz
Middle	2437	16.08	> 0.5MHz
High	2462	16.36	> 0.5MHz

The test was performed with 802.11n (Bandwidth: 40 MHz)			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2422	36.44	> 0.5MHz
Middle	2437	36.48	> 0.5MHz
High	2452	36.40	> 0.5MHz

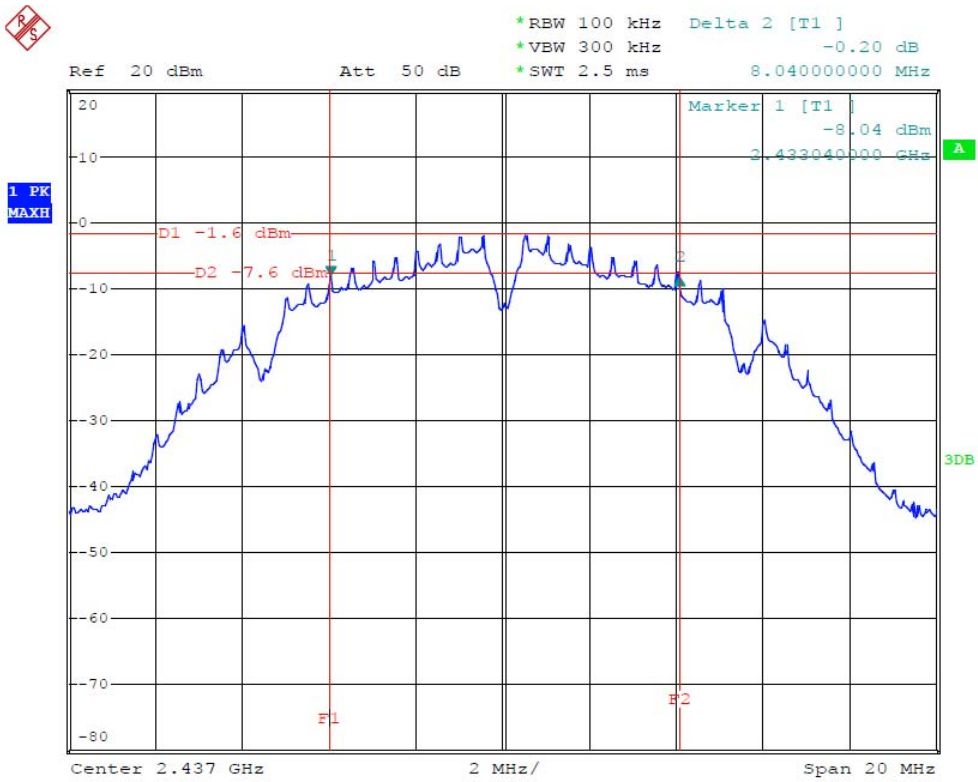
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



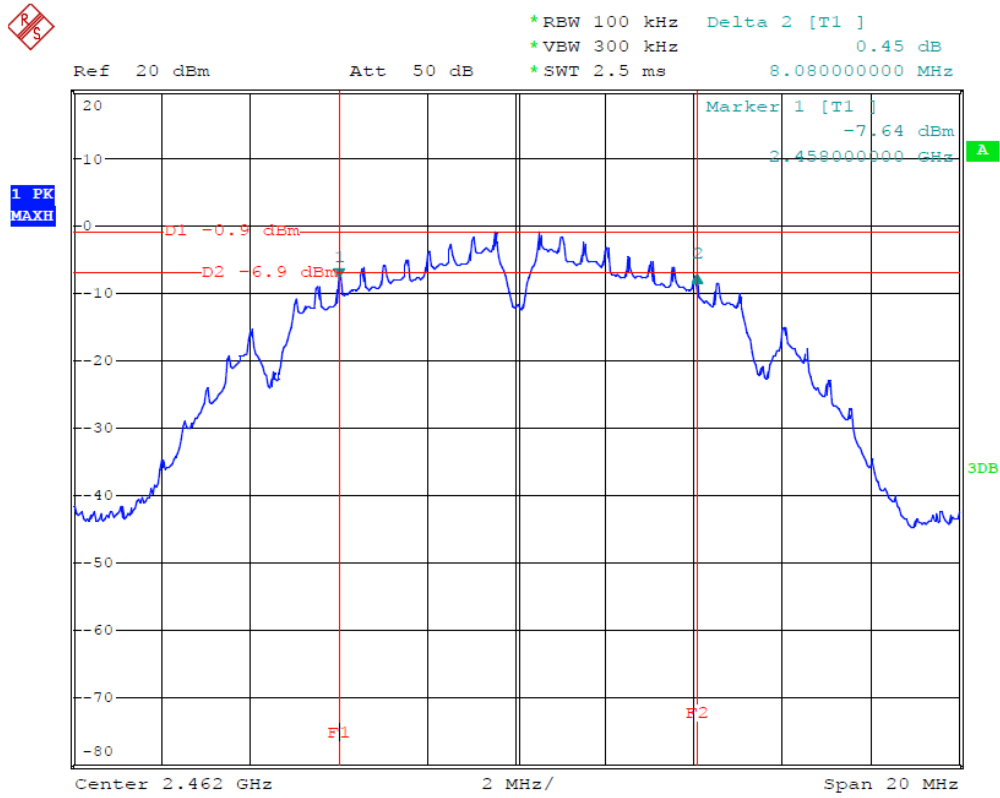
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802.11b Channel Middle 2437MHz



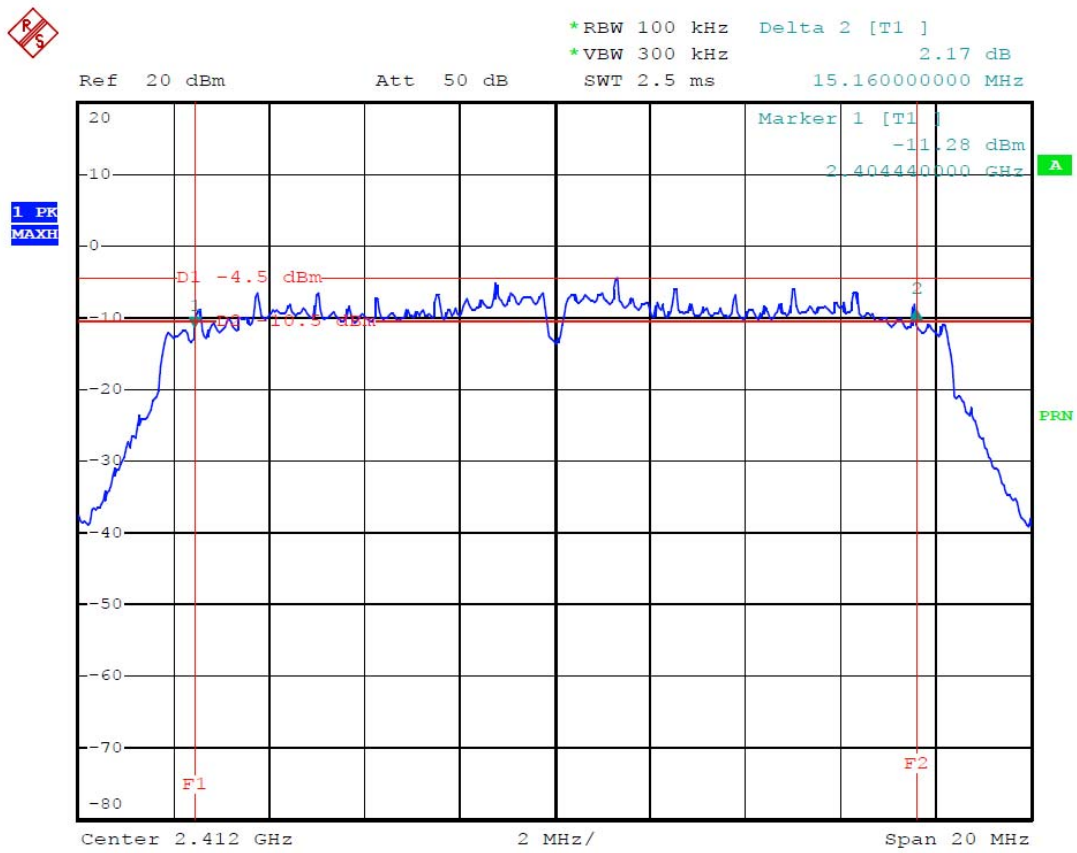
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802.11b Channel High 2462MHz



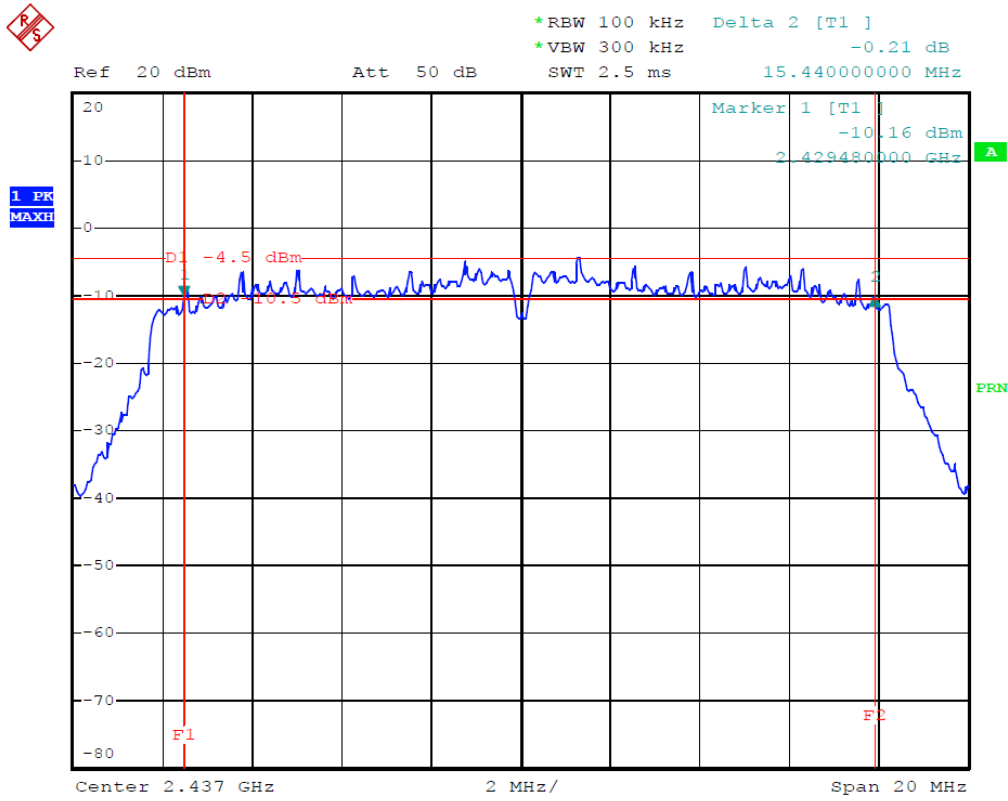
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802.11g Channel Low 2412MHz



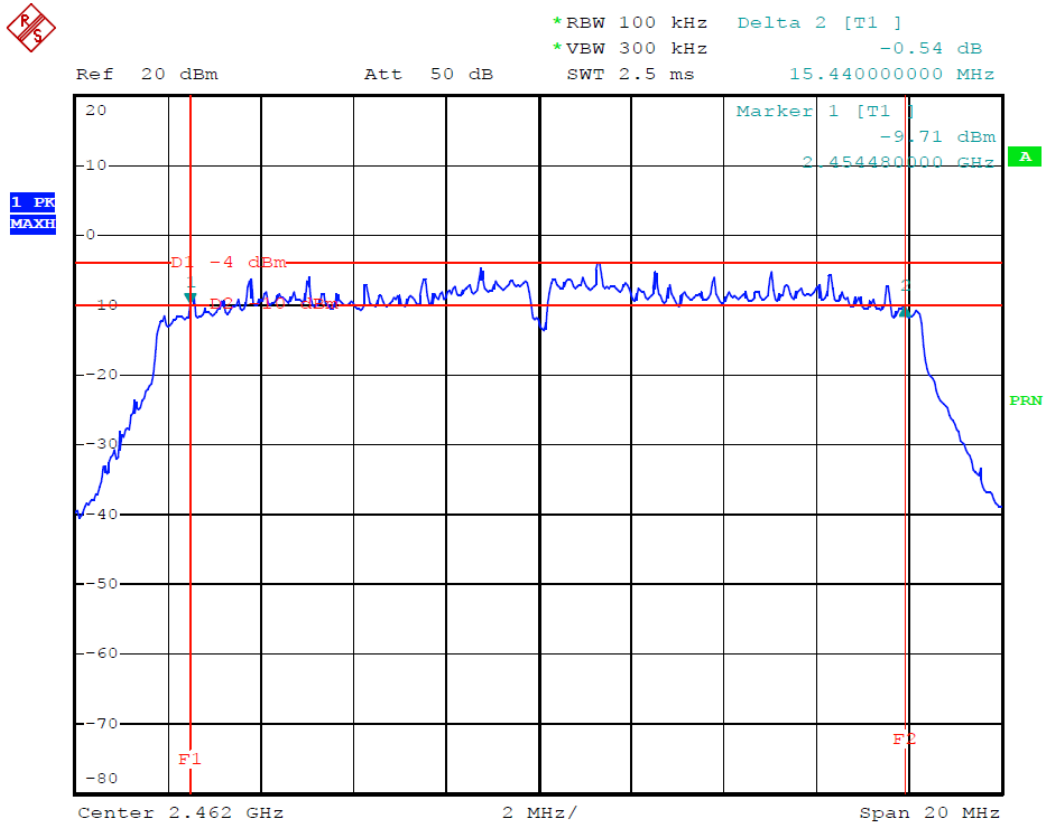
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802.11g Channel Middle 2437MHz

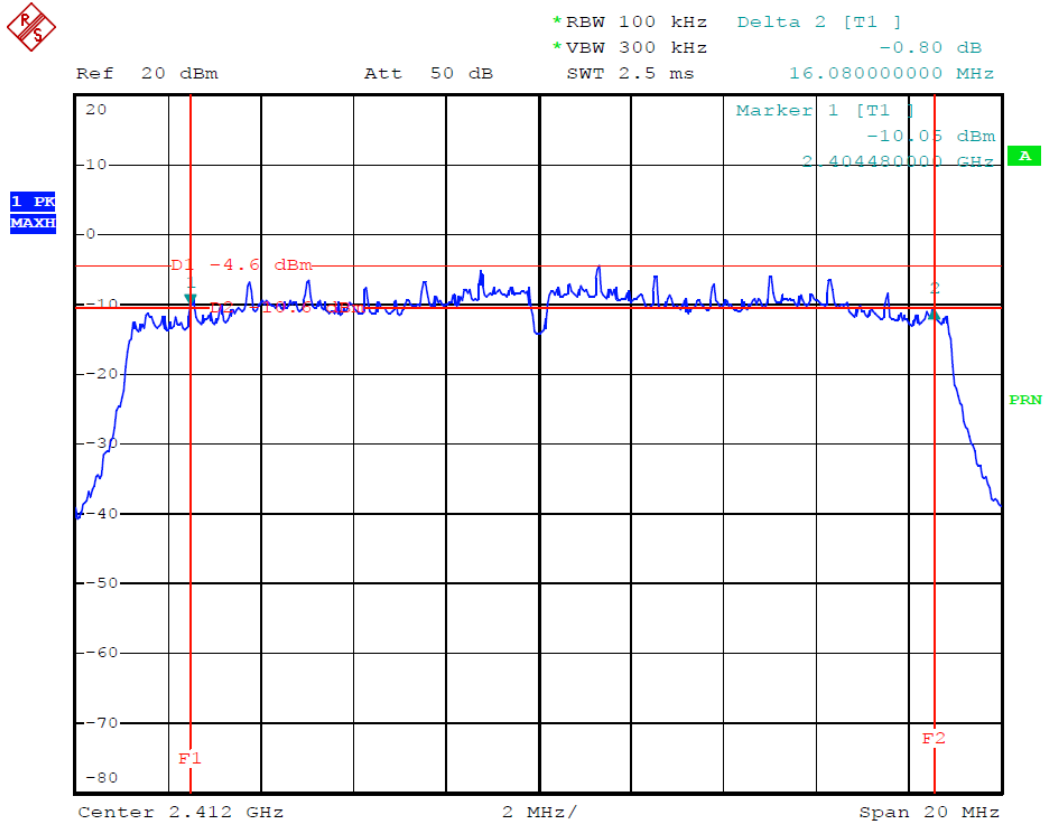


Date: 2.FEB.2013 15:41:23

802.11g Channel High 2462MHz

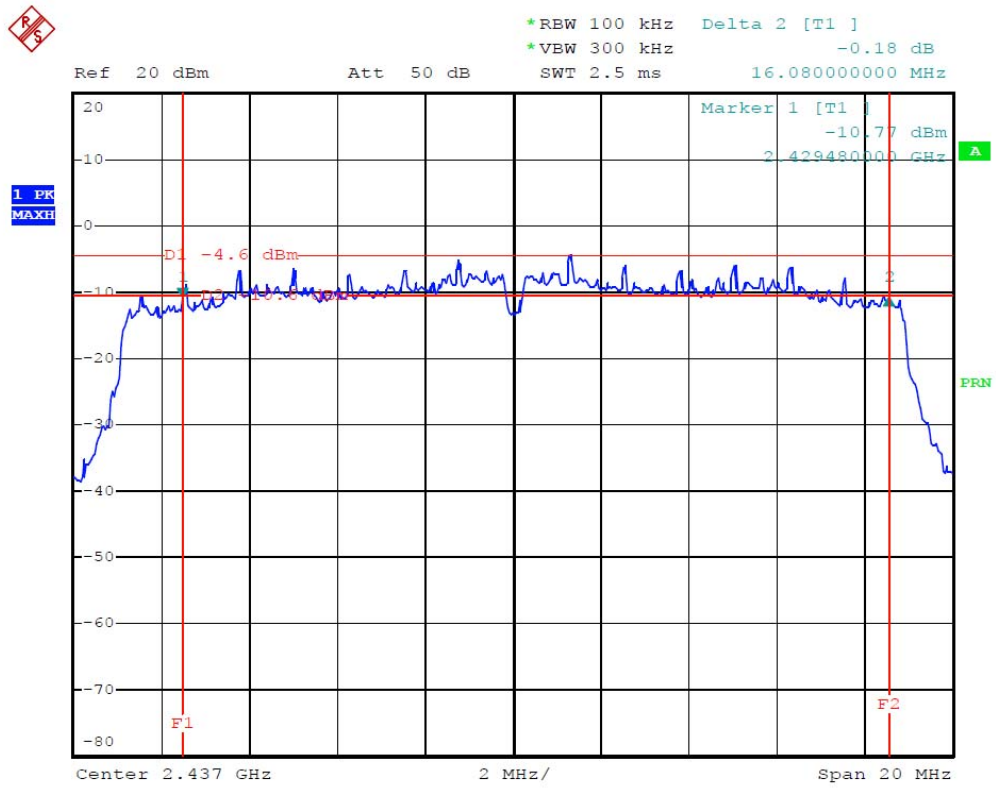


802.11n Channel Low 2412MHz (20MHz)



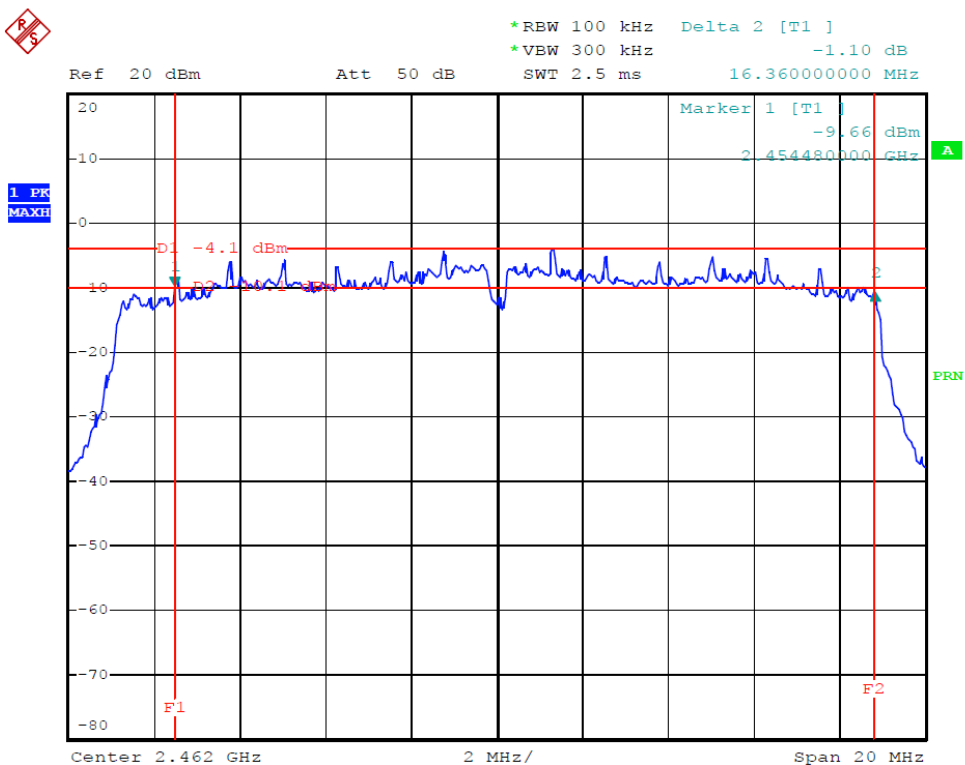
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802.11n Channel Middle 2437MHz(20MHz)



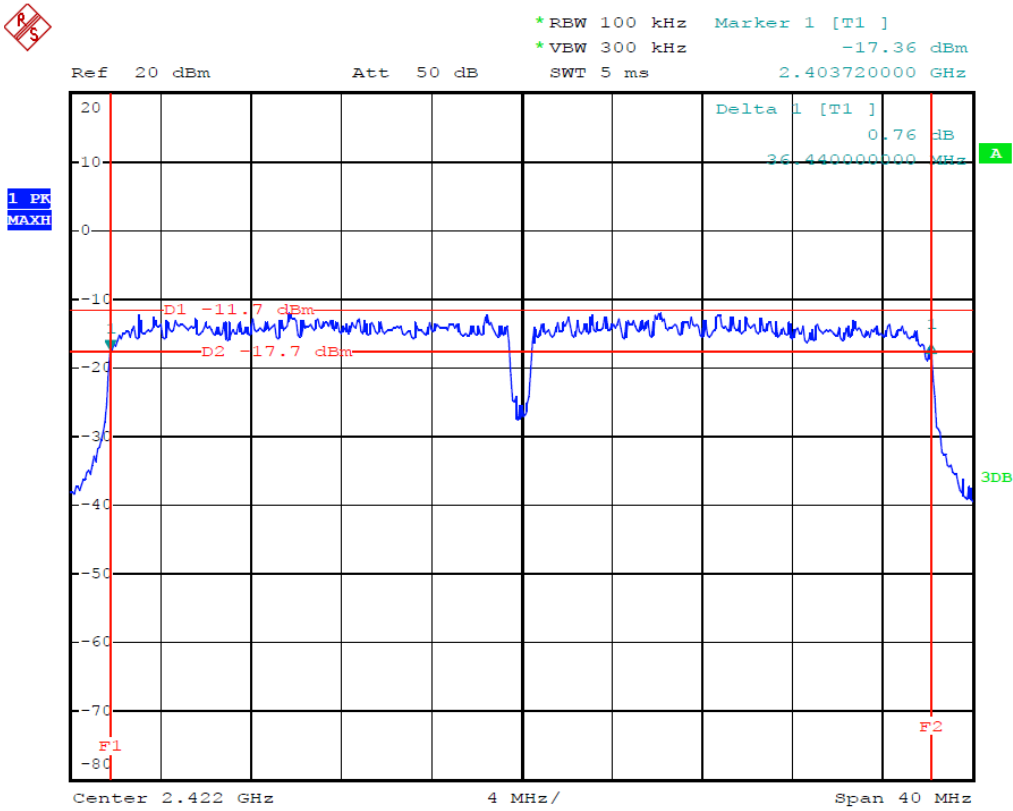
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802.11n Channel High 2462MHz(20MHz)



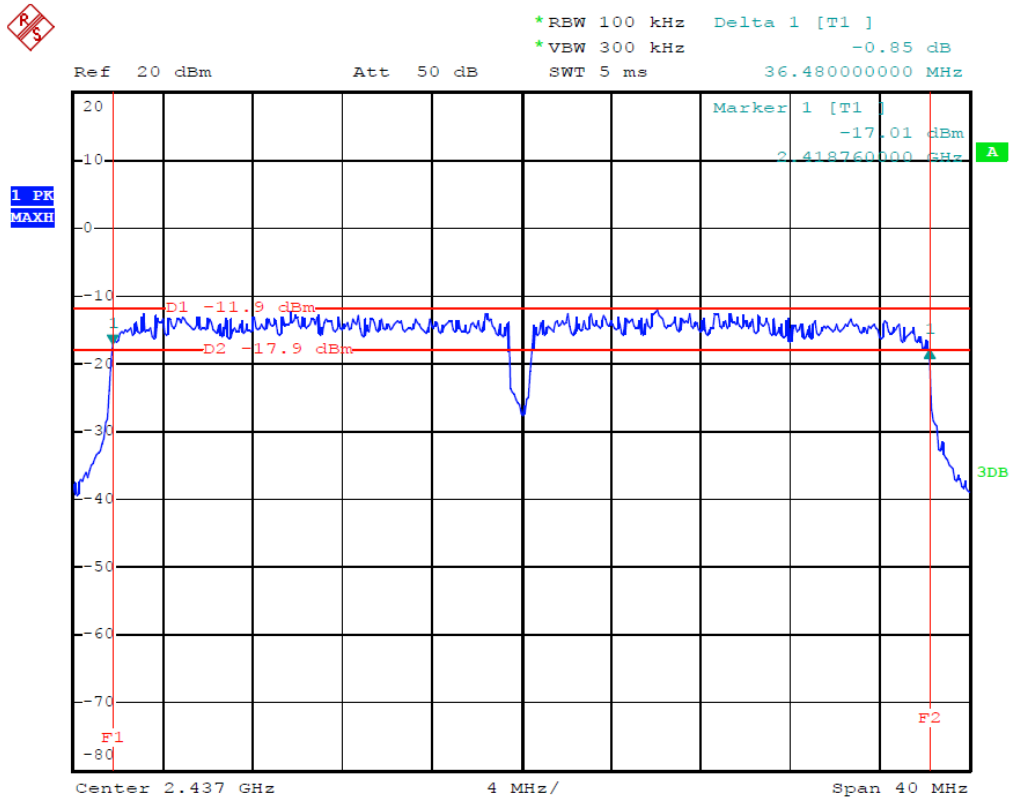
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802.11n Channel Low 2422MHz (40MHz)



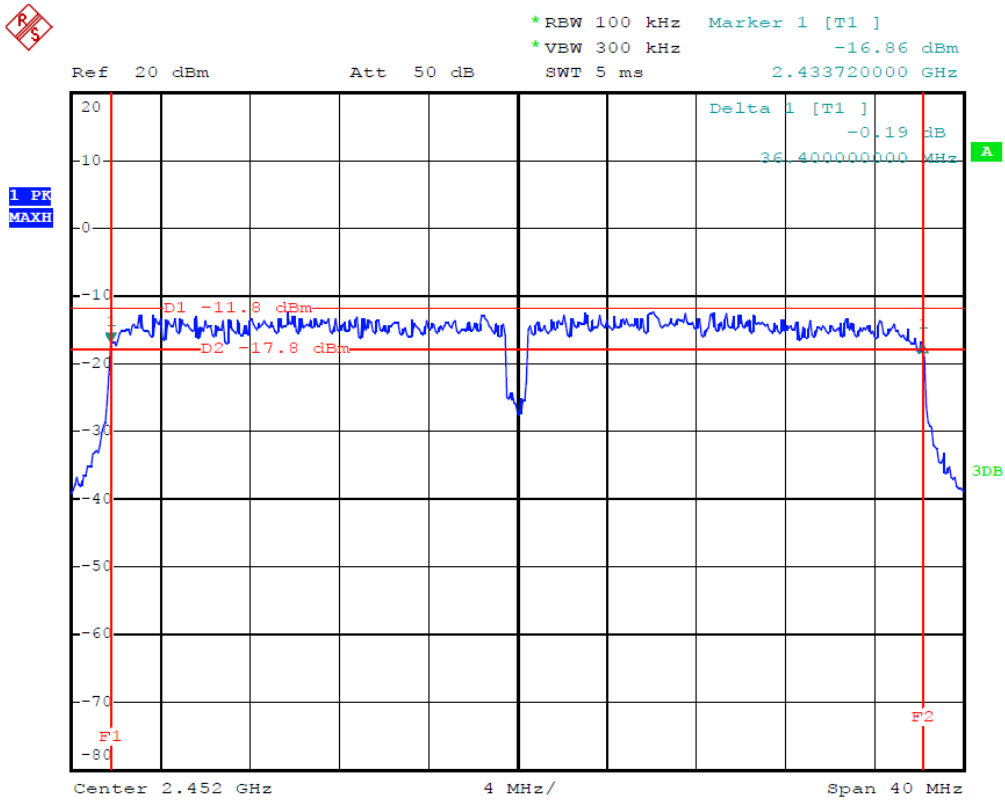
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802.11n Channel Middle 2437MHz(40MHz)



Date: 2.Feb.2013 18:43:45

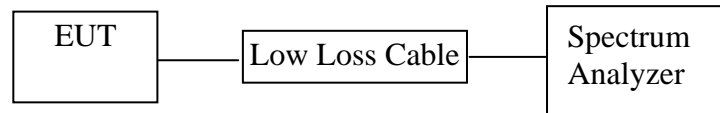
802.11n Channel High 2452MHz(40MHz)



Date: 2.Feb.2013 18:42:28

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	:	VX-S7001
Serial Number	:	N/A
Manufacturer	:	Shenzhen Sungworld 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 EUT was tested according to DTS test procedure of October 04, 2012 KDB558074 D01 DTS Meas Guidance v02 for compliance to FCC 47CFR 15.247 requirements.

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

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

6.5.4. Measurement the maximum peak output power.

6.6. Test Result

PASS.

Date of Test:	<u>February 2, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>VX-S7001</u>	Power Supply:	<u>AC 120V/60HZ</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Pei</u>

The test was performed with 802.11b

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	7.45	5.56	30 dBm / 1 W
Middle	2437	7.67	5.85	30 dBm / 1 W
High	2462	7.69	5.87	30 dBm / 1 W

The test was performed with 802.11g

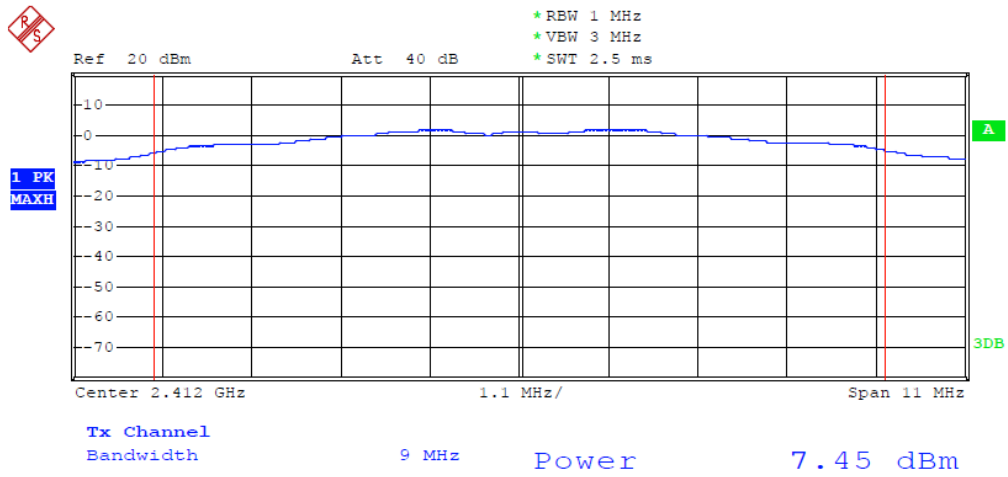
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	7.84	6.08	30 dBm / 1 W
Middle	2437	7.32	5.40	30 dBm / 1 W
High	2462	6.58	4.55	30 dBm / 1 W

The test was performed with 802.11n (20MHz)				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	7.87	6.12	30 dBm / 1 W
Middle	2437	6.08	4.06	30 dBm / 1 W
High	2462	7.31	5.38	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	7.65	5.82	30 dBm / 1 W
Middle	2437	7.83	6.07	30 dBm / 1 W
High	2452	7.41	5.51	30 dBm / 1 W

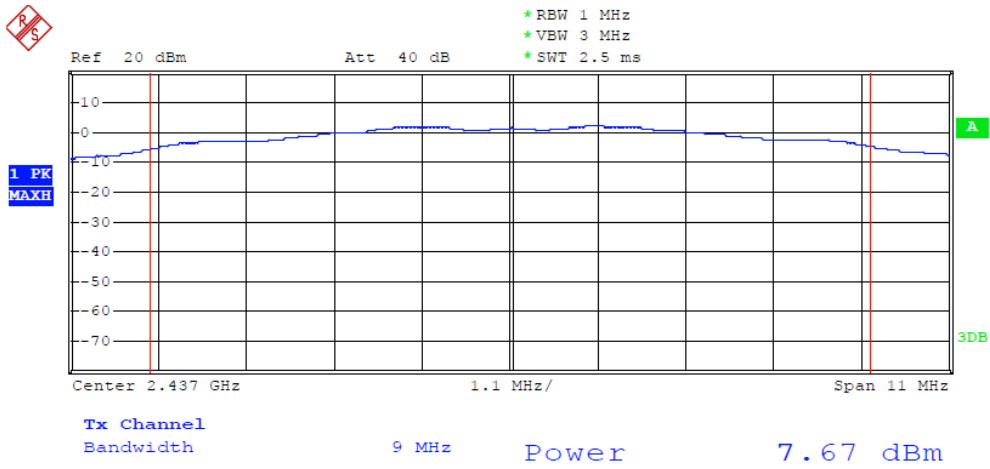
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



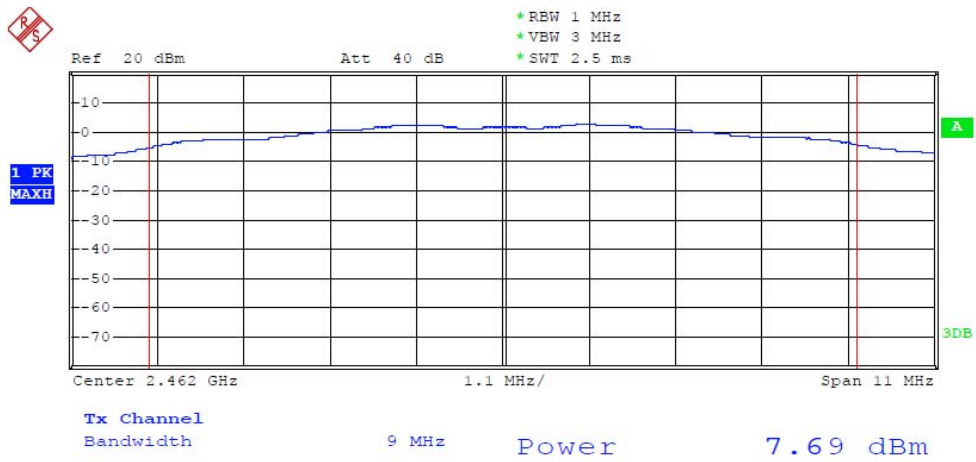
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802.11b Channel Middle 2437MHz



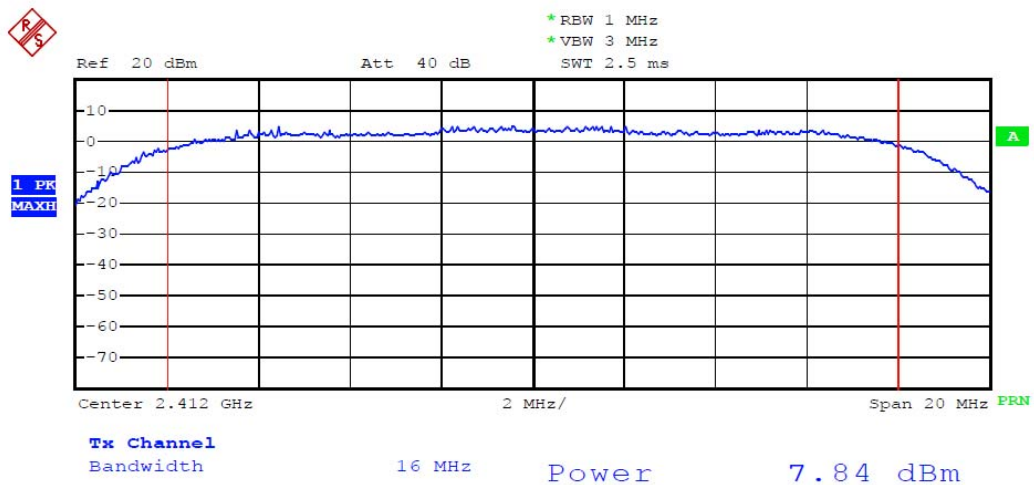
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802.11b Channel High 2462MHz



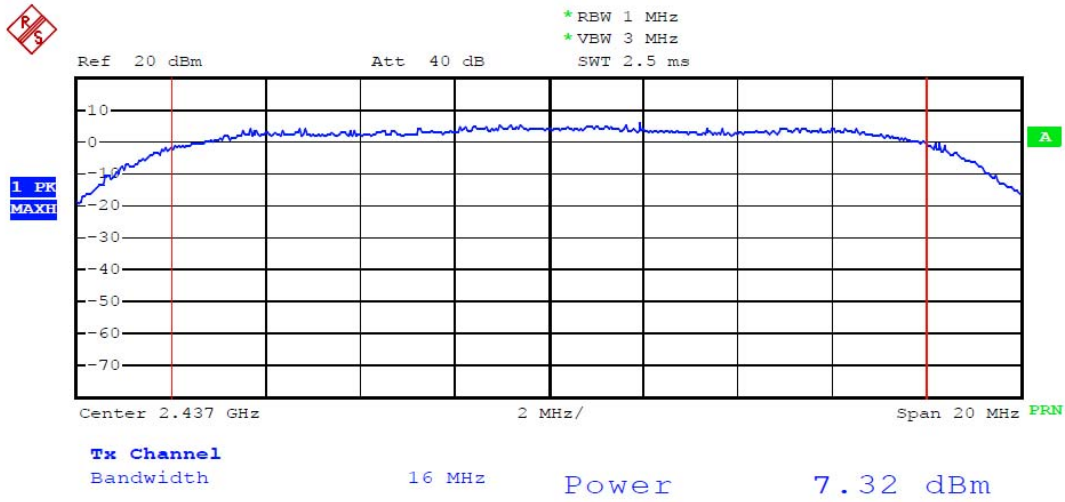
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802.11g Channel Low 2412MHz



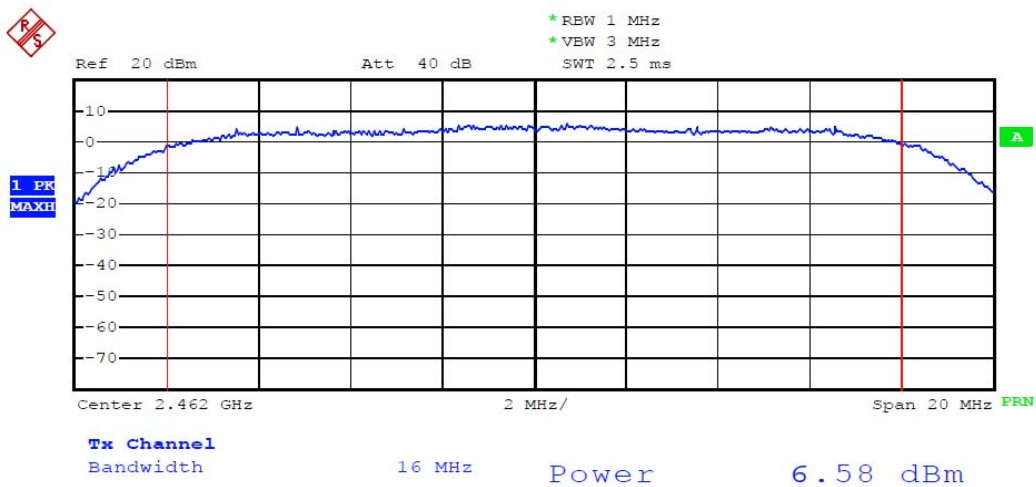
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802.11g Channel Middle 2437MHz



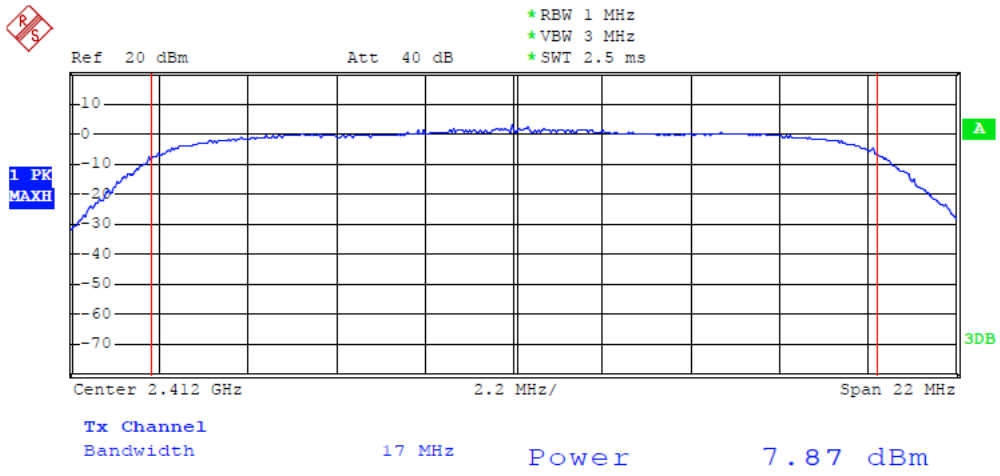
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802.11g Channel High 2462MHz



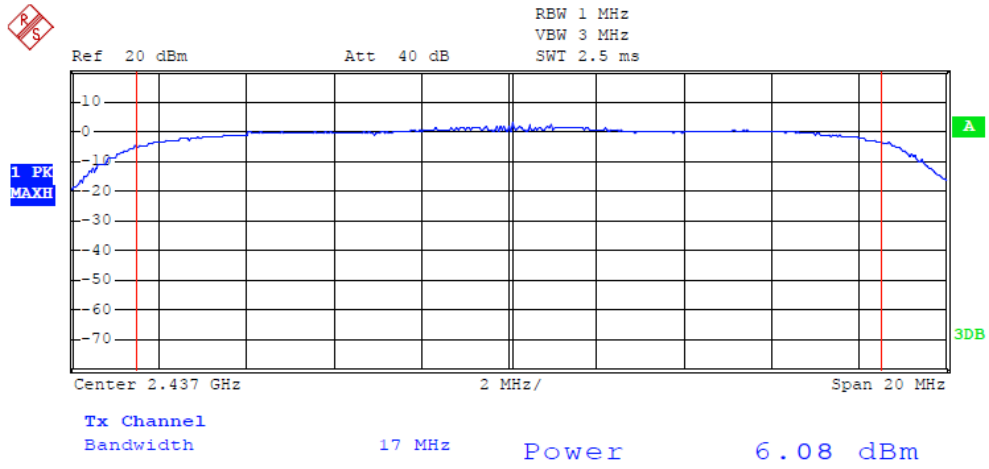
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802.11n Channel Low 2412MHz (20MHz)



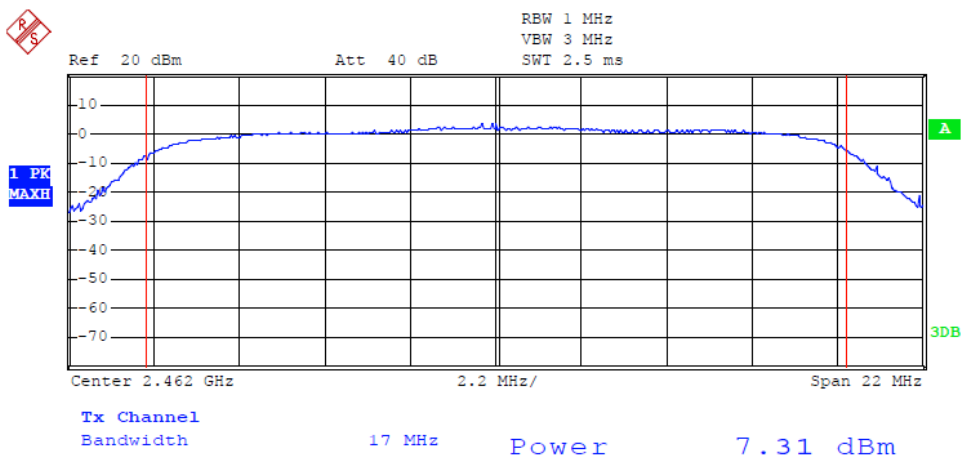
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802.11n Channel Middle 2437MHz (20MHz)



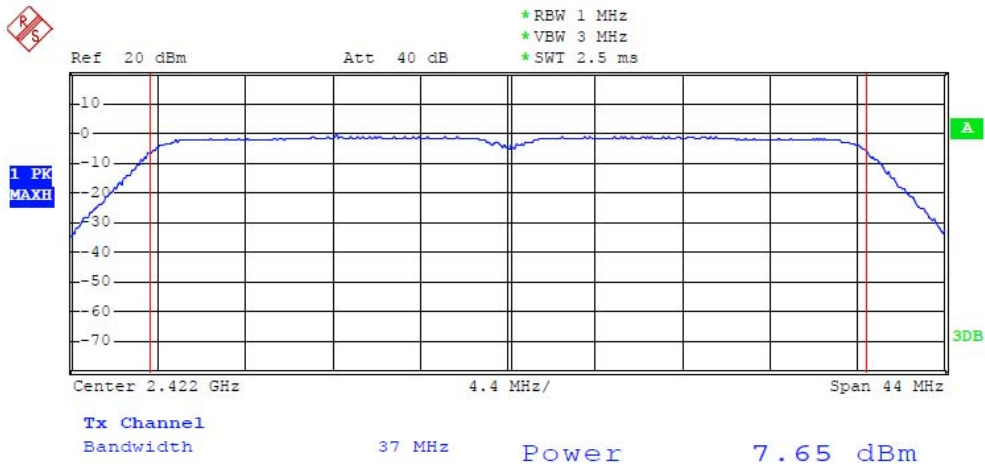
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802.11n Channel High 2462MHz (20MHz)



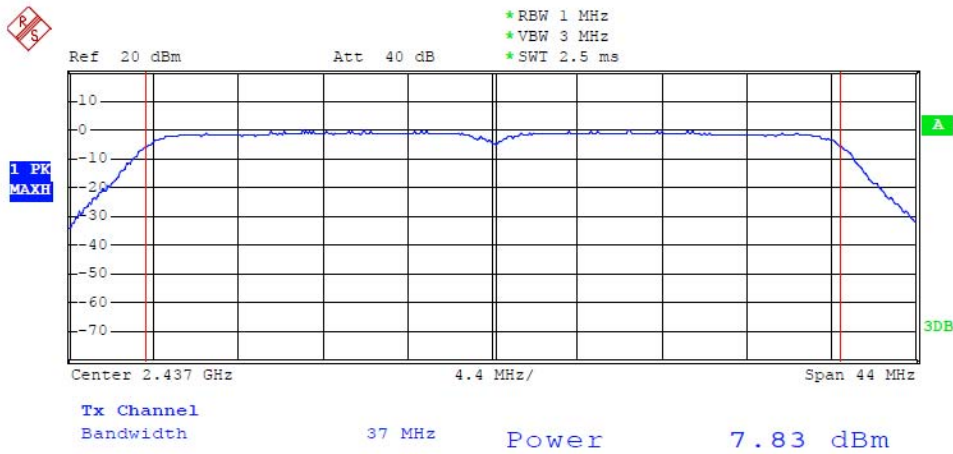
Date: 2.Feb.2013 09:39:21

802.11n Channel Low 2422MHz (40MHz)



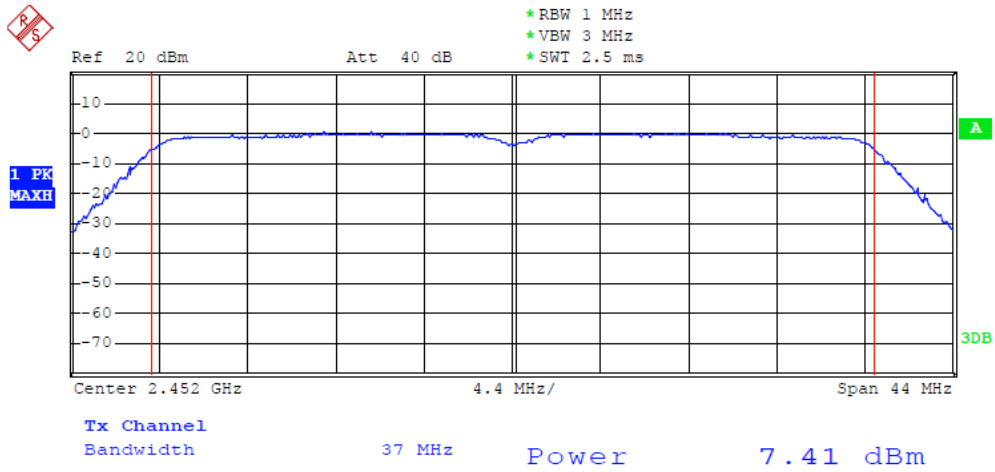
Date: 2.Feb.2013 14:37:49

802.11n Channel Middle 2437MHz (40MHz)



Date: 2.Feb.2013 14:38:26

802.11n Channel High 2452MHz (40MHz)



Date: 2.Feb.2013 14:39:18

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	:	VX-S7001
Serial Number	:	N/A
Manufacturer	:	Shenzhen Sungworld 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 EUT was tested according to DTS test procedure of October 04, 2012 KDB558074 D01 DTS Meas Guidance v02 for compliance to FCC 47CFR 15.247 requirements.

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

7.5.3. Measurement Procedure PKPSD:

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

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

7.5.4. Measurement the maximum power spectral density.

7.6. Test Result

PASS.

Date of Test:	February 2, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	VX-S7001	Power Supply:	AC 120V/60HZ
Test Mode:	TX	Test Engineer:	Pei

The test was performed with 802.11b

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-16.45	8 dBm
Middle	2437	-16.13	8 dBm
High	2462	-15.14	8 dBm

The test was performed with 802.11g

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-18.80	8 dBm
Middle	2437	-18.61	8 dBm
High	2462	-19.12	8 dBm

The test was performed with 802.11n (20MHz)

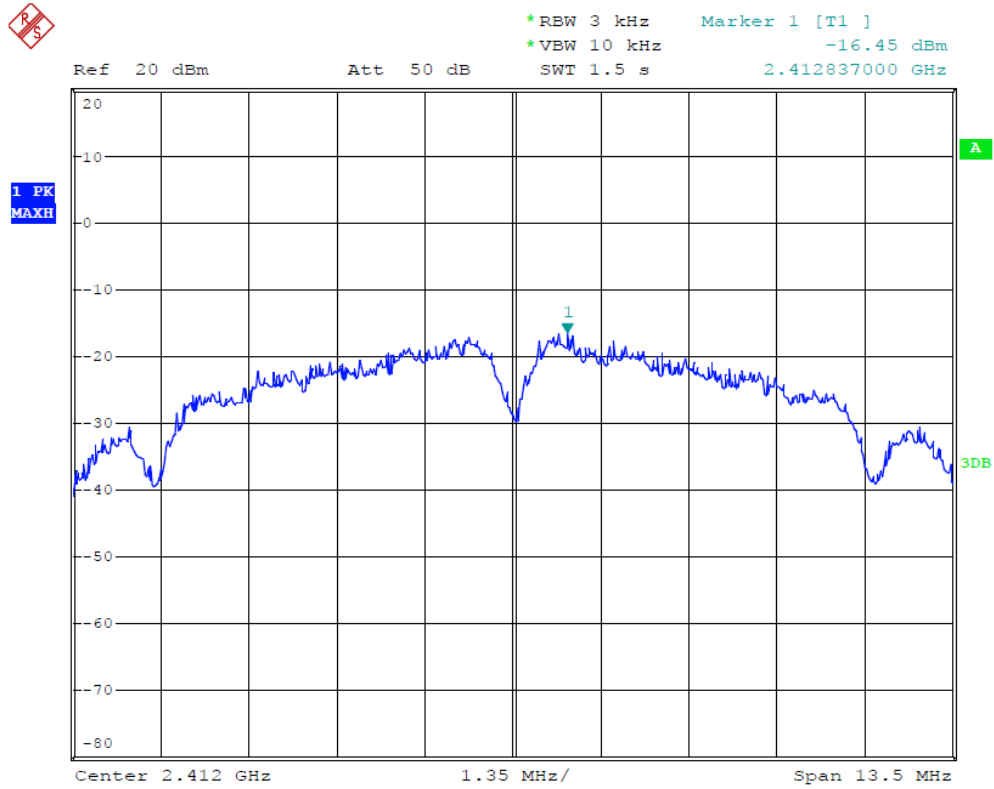
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-20.79	8 dBm
Middle	2437	-19.93	8 dBm
High	2462	-18.98	8 dBm

The test was performed with 802.11n (40MHz)

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2422	-24.68	8 dBm
Middle	2437	-24.85	8 dBm
High	2452	-24.74	8 dBm

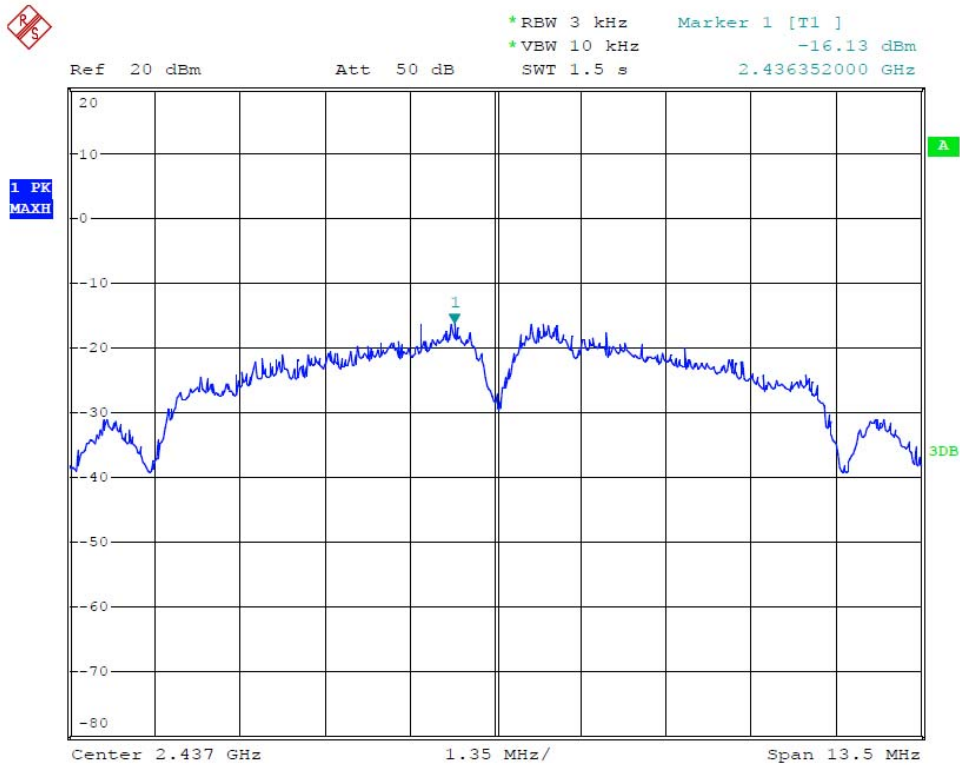
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



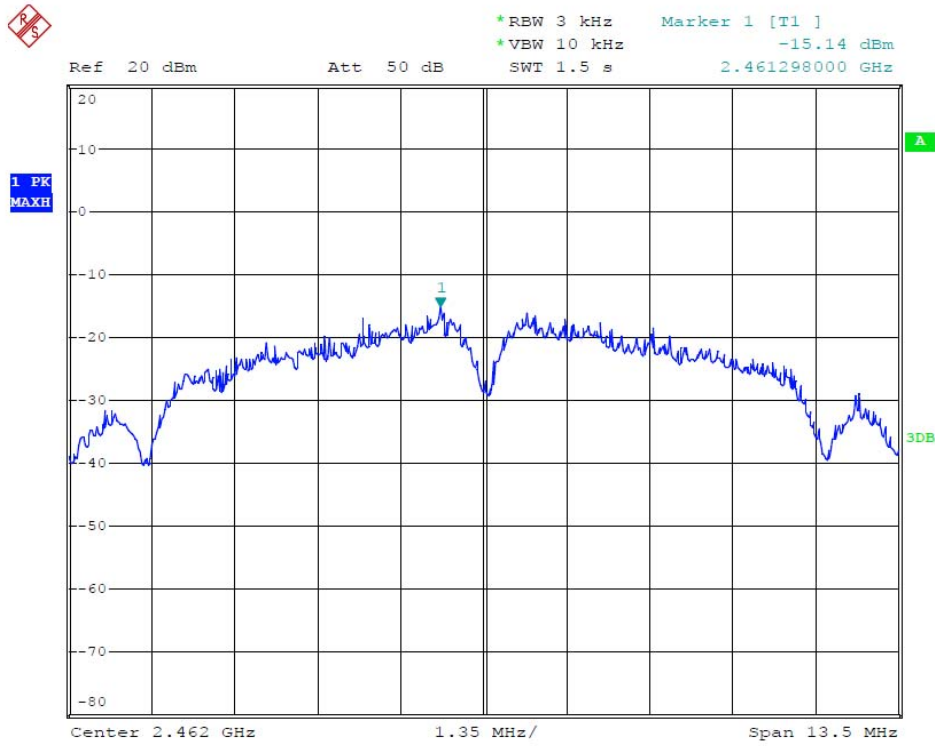
Date: 2.FEB.2013 11:11:24

802.11b Channel Middle 2437MHz



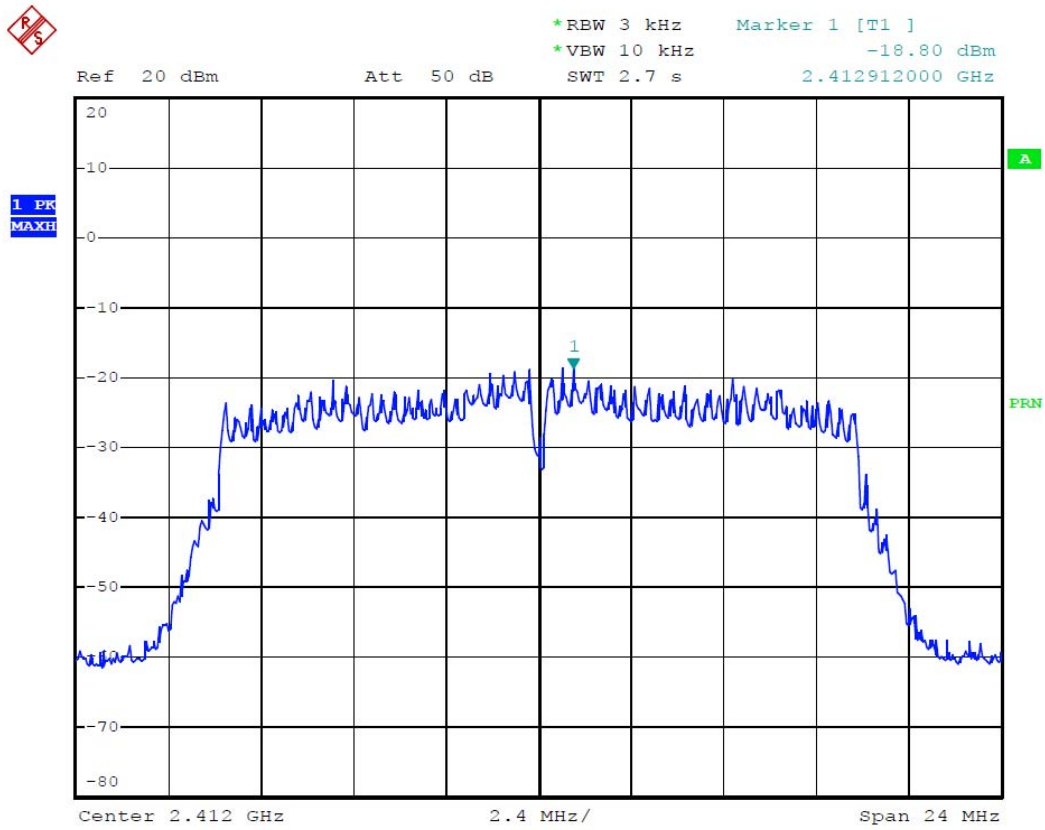
Date: 2.FEB.2013 11:12:03

802.11b Channel High 2462MHz



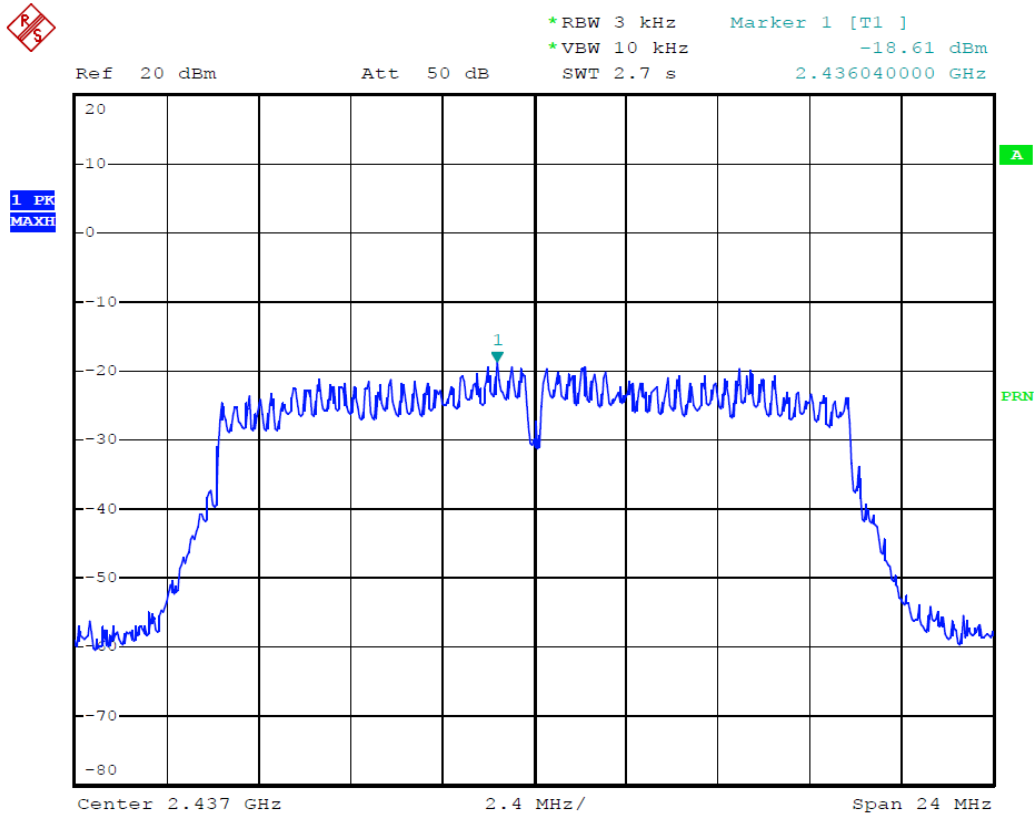
Date: 2.FEB.2013 11:12:52

802.11g Channel Low 2412MHz



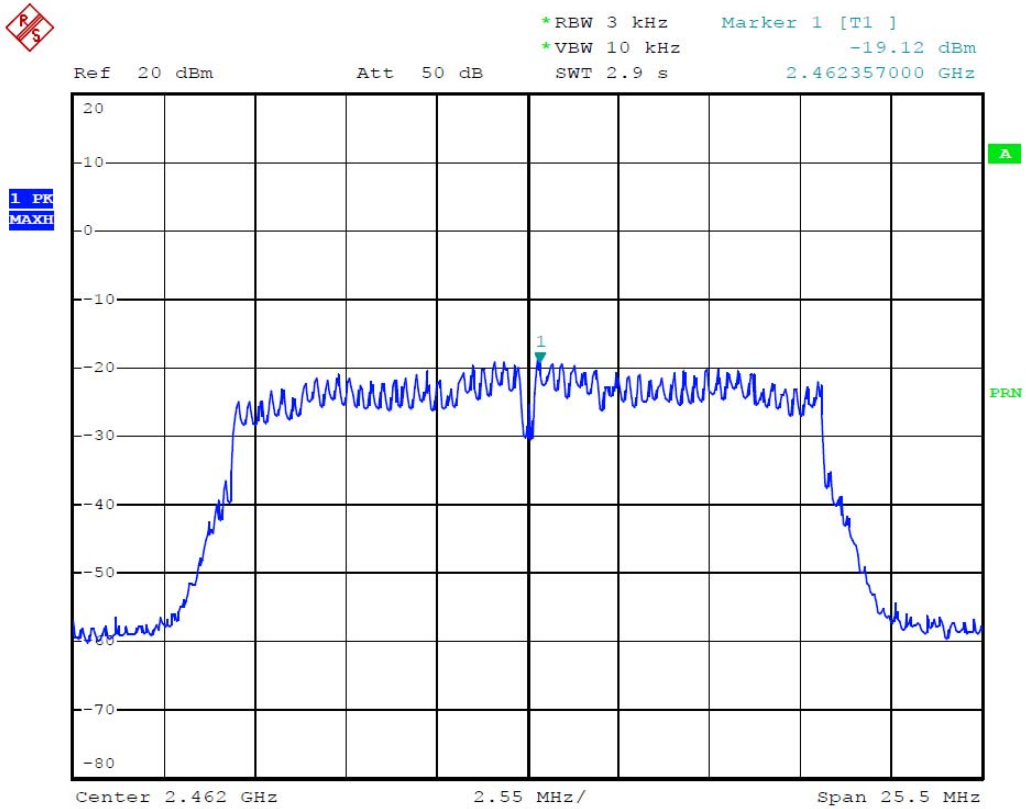
Date: 2.FEB.2013 15:49:14

802.11g Channel Middle 2437MHz



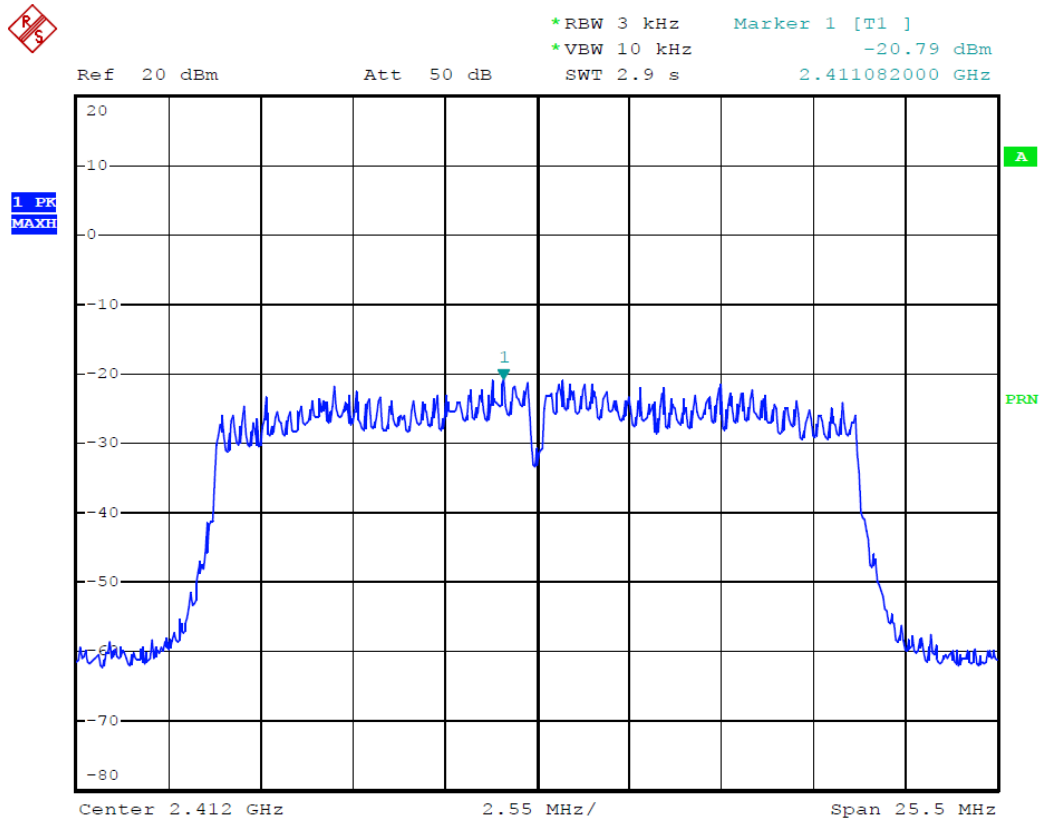
Date: 2.FEB.2013 15:50:03

802.11g Channel High 2462MHz



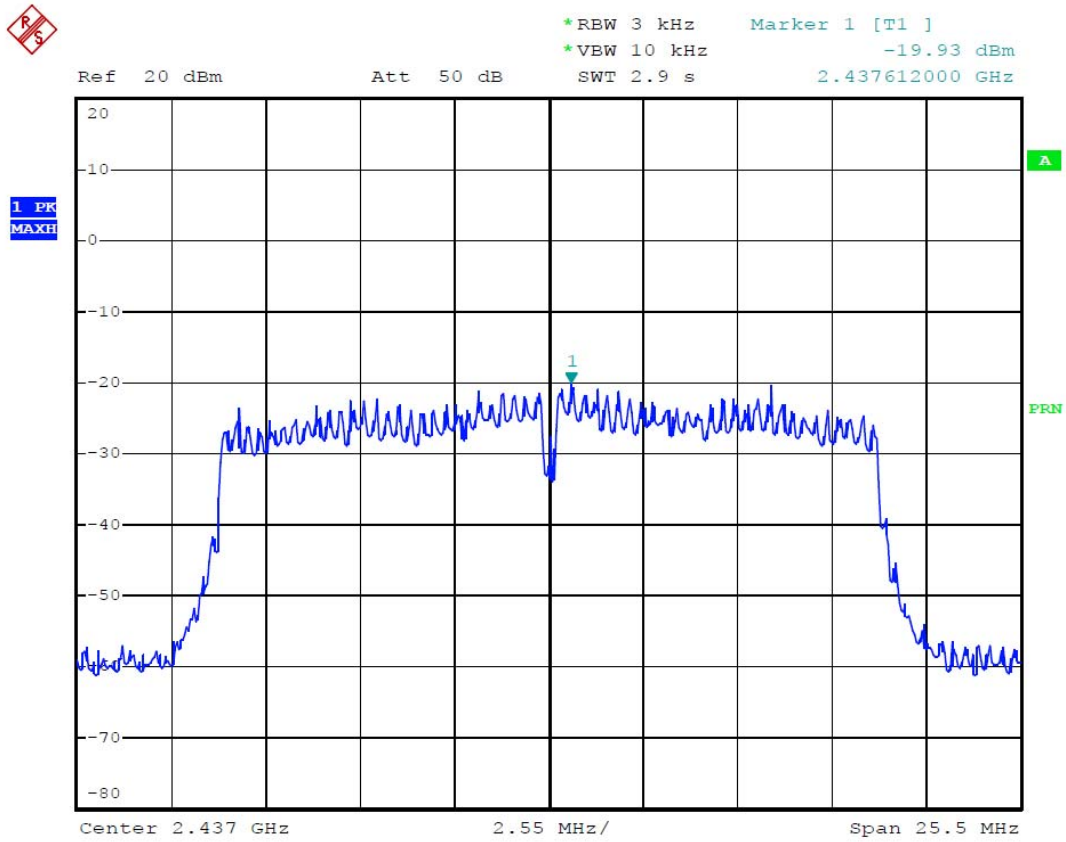
Date: 2.FEB.2013 16:27:44

802.11n Channel Low 2412MHz (20MHz)



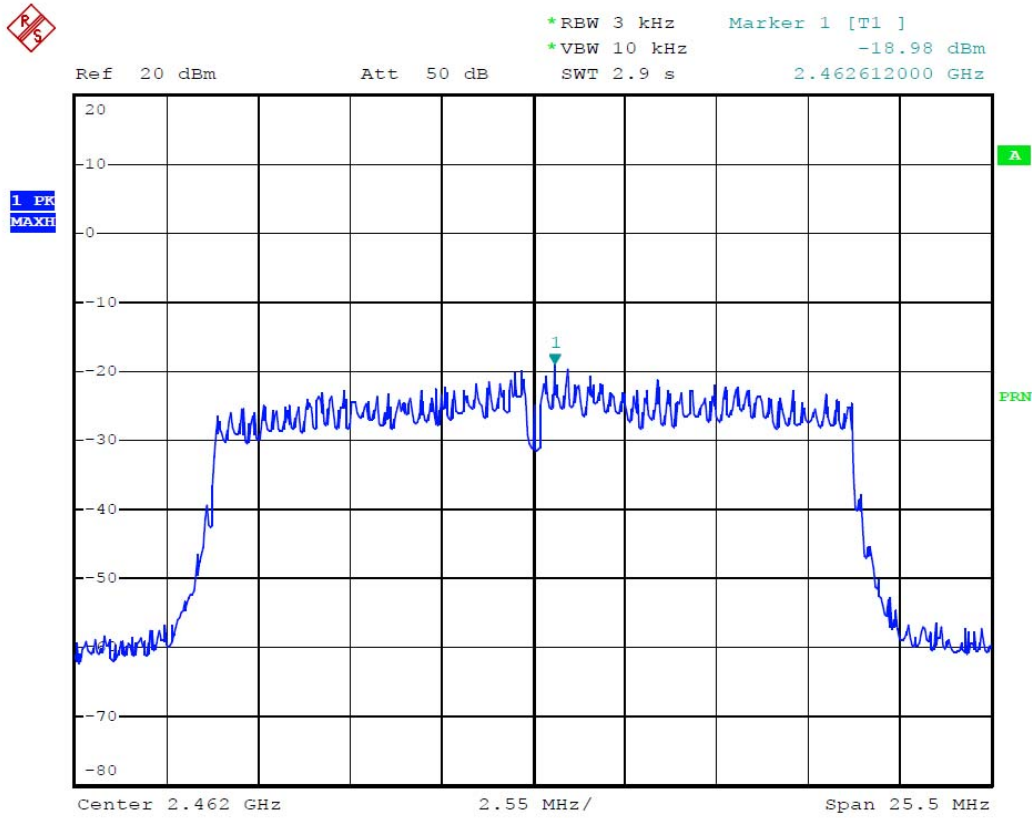
Date: 2.FEB.2013 16:06:05

802.11n Channel Middle 2437MHz (20MHz)



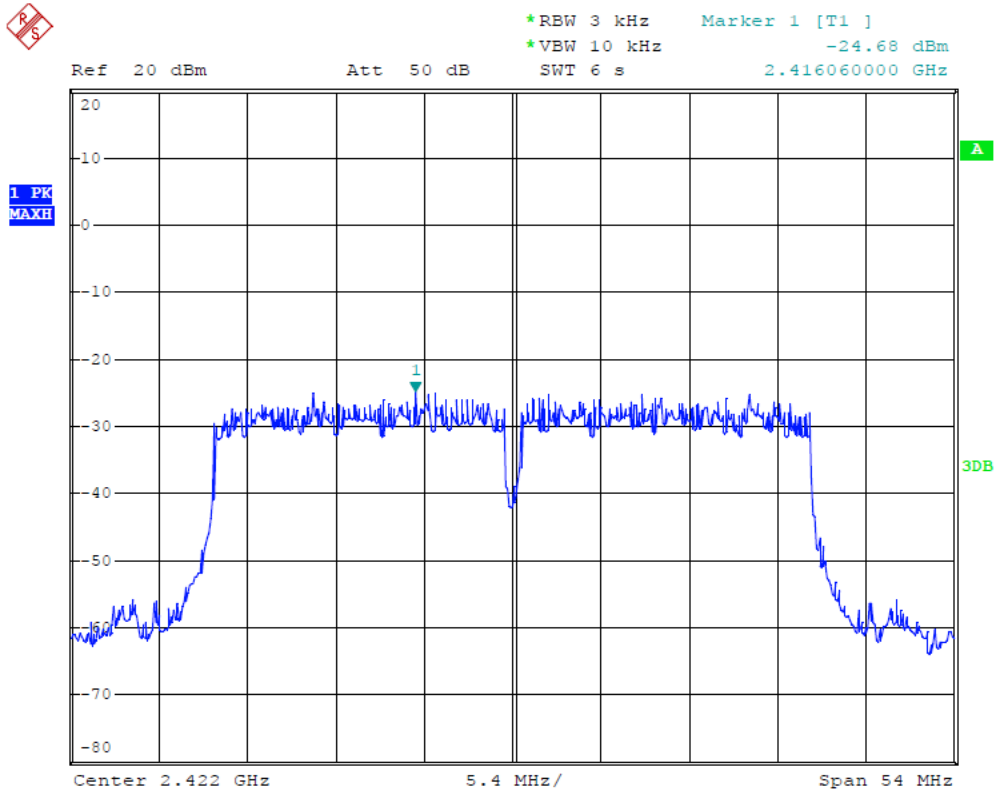
Date: 2.FEB.2013 16:06:42

802.11n Channel High 2462MHz(20MHz)



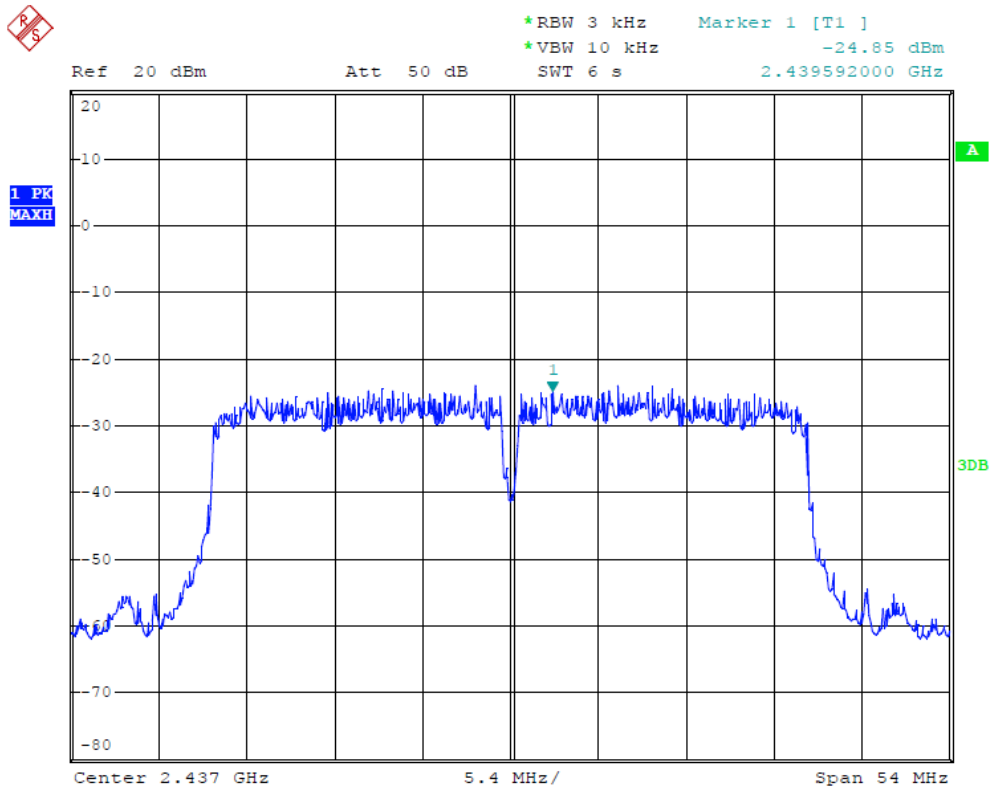
Date: 2.FEB.2013 16:07:12

802.11n Channel Low 2422MHz (40MHz)



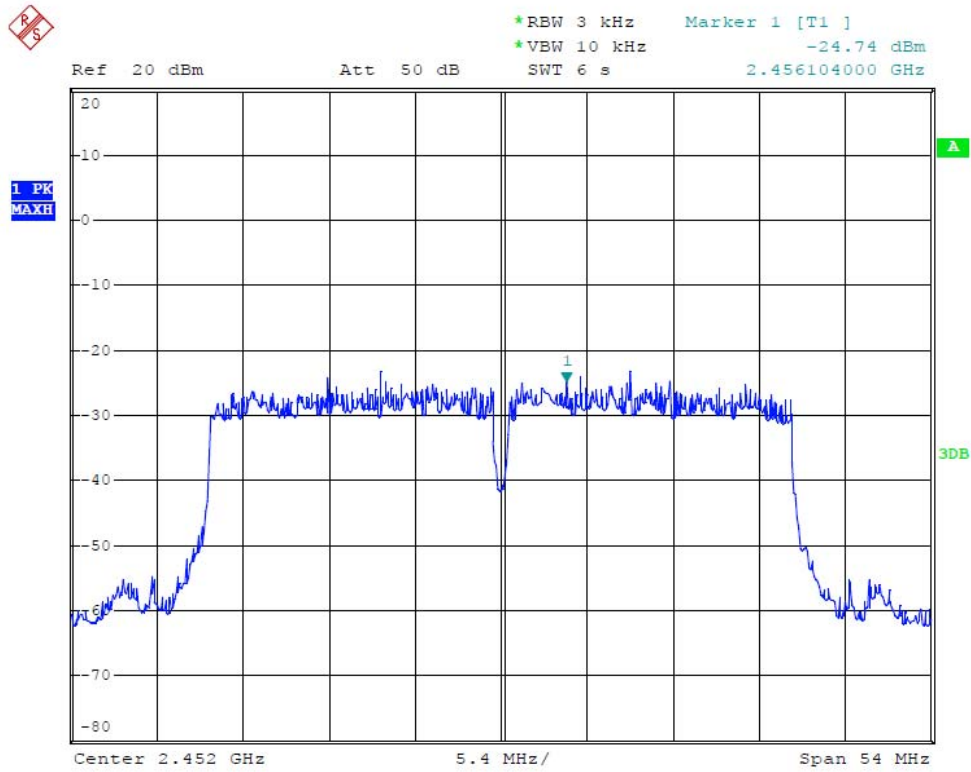
Date: 2.Feb.2013 15:01:33

802.11n Channel Middle 2437MHz(40MHz)



Date: 2.Feb.2013 15:00:53

802.11n Channel High 2452MHz(40MHz)



Date: 2.Feb.2013 14:59:03

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	:	VX-S7001
Serial Number	:	N/A
Manufacturer	:	Shenzhen Sungworld 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 100kHz and VBW to 300kHz.

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: January 29, 2013Temperature: 25°CEUT: MIDHumidity: 50%Model No.: VX-S7001Power Supply: AC 120V/60HZTest Mode: TXTest Engineer: Pei

The test was performed with 802.11b

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	39.68	> 20dBc
2462	40.86	> 20dBc

The test was performed with 802.11g

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	36.95	> 20dBc
2462	37.35	> 20dBc

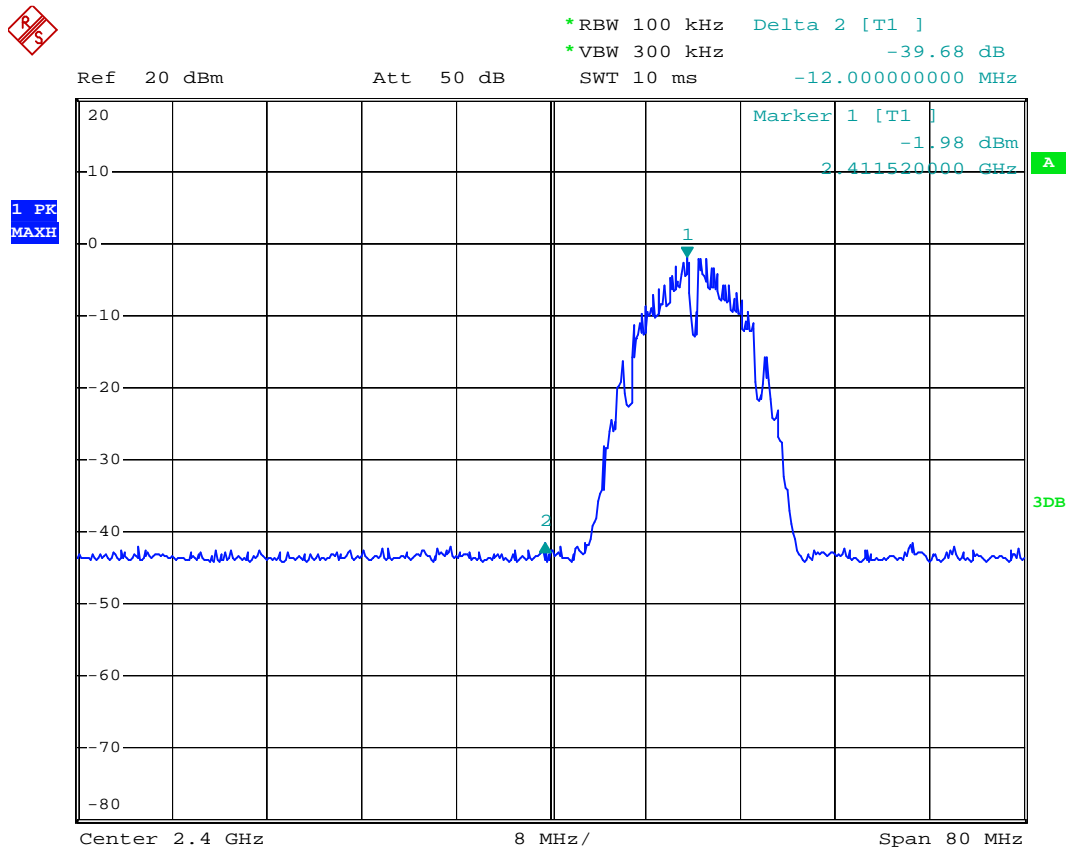
The test was performed with 802.11n (20MHz)

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	36.38	> 20dBc
2462	37.87	> 20dBc

The test was performed with 802.11n (40MHz)

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2422	26.96	> 20dBc
2452	26.87	> 20dBc

802.11b Channel Low 2412MHz

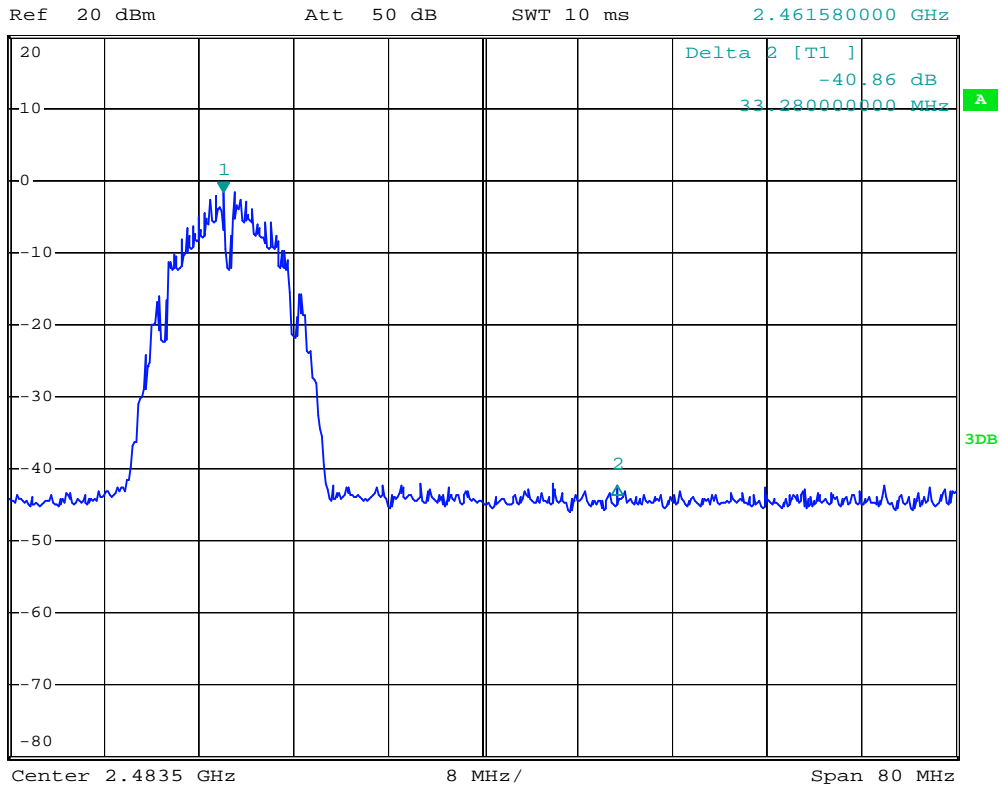


Date: 29.JAN.2013 09:59:22

802.11b Channel High 2462MHz

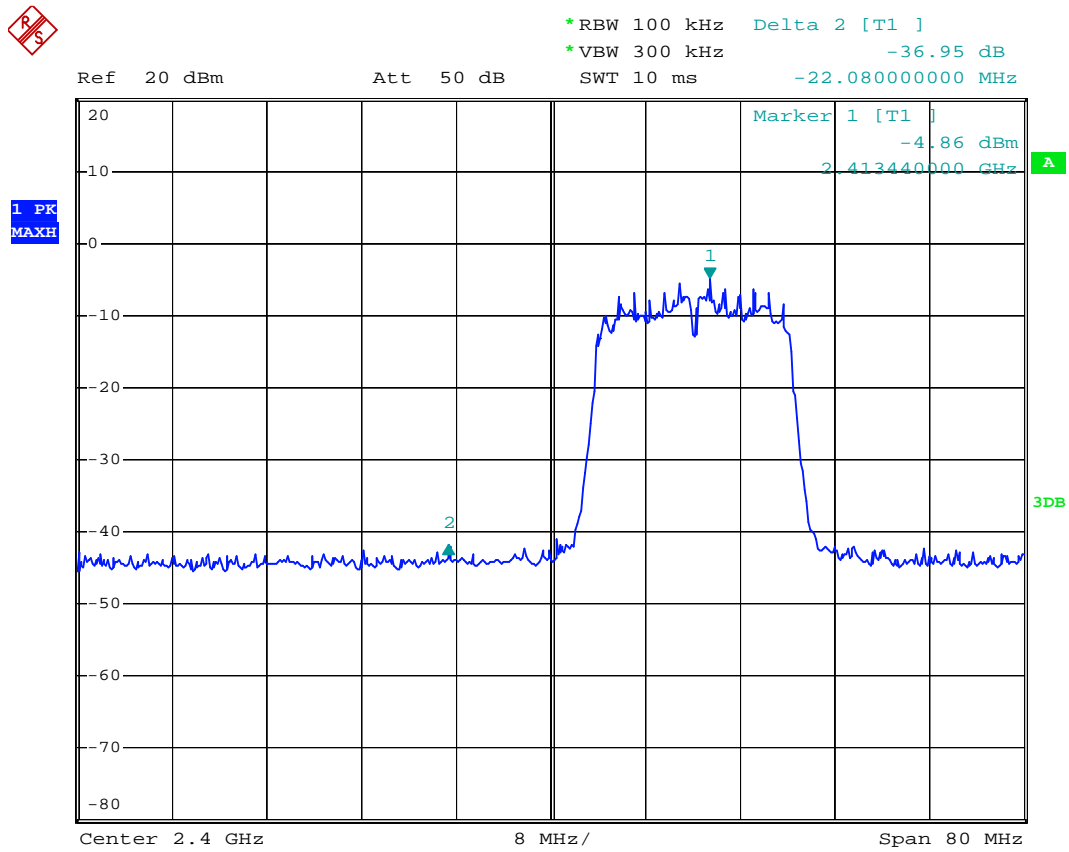


*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -1.56 dBm
SWT 10 ms 2.461580000 GHz



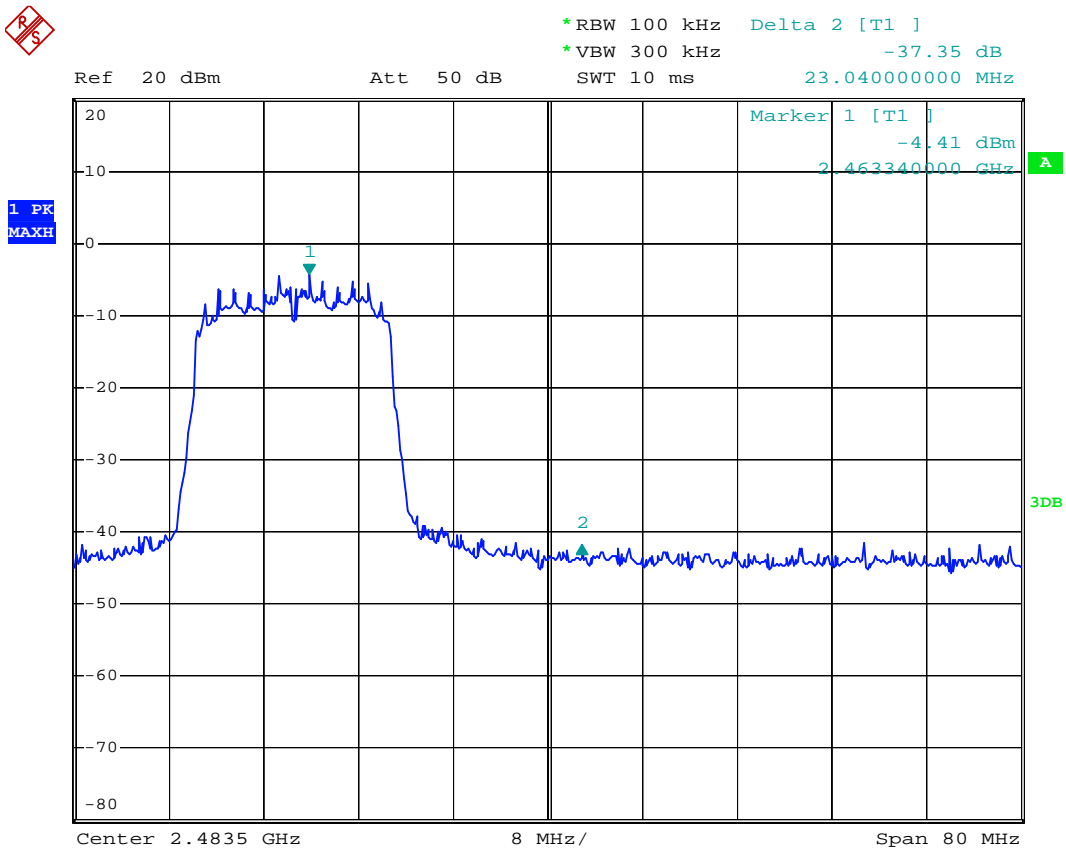
Date: 29.JAN.2013 10:00:21

802.11g Channel Low 2412MHz



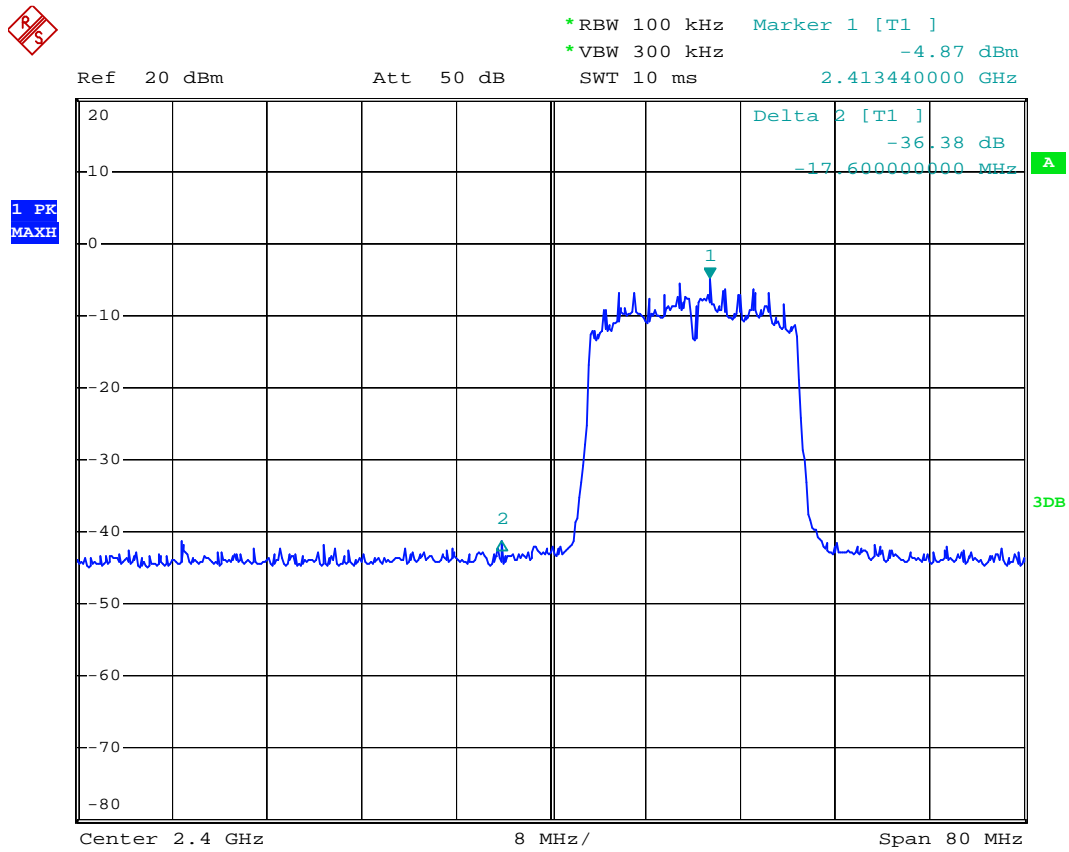
Date: 29.JAN.2013 10:02:06

802.11g Channel High 2462MHz



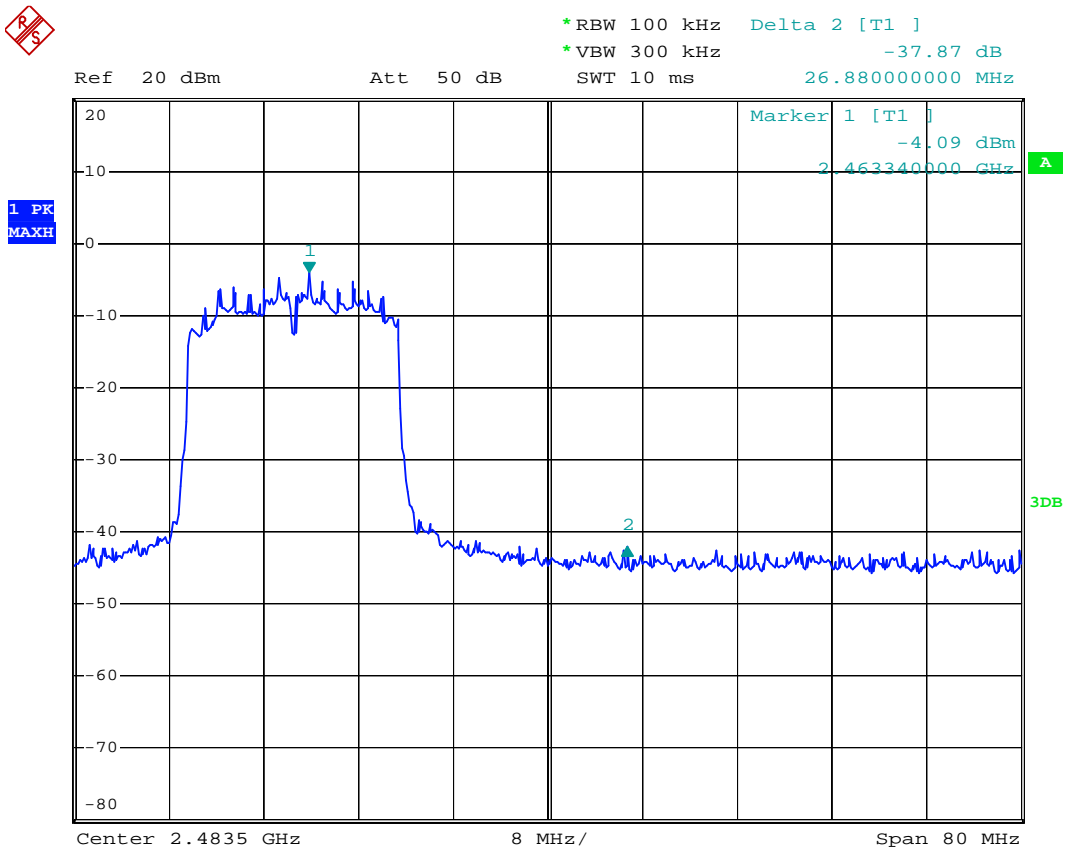
Date: 29.JAN.2013 10:01:22

802.11n Channel Low 2412MHz (20MHz)



Date: 29.JAN.2013 10:03:10

802.11n Channel High 2462MHz (20MHz)



Date: 29.JAN.2013 10:03:56

802.11n Channel Low 2422MHz (40MHz)

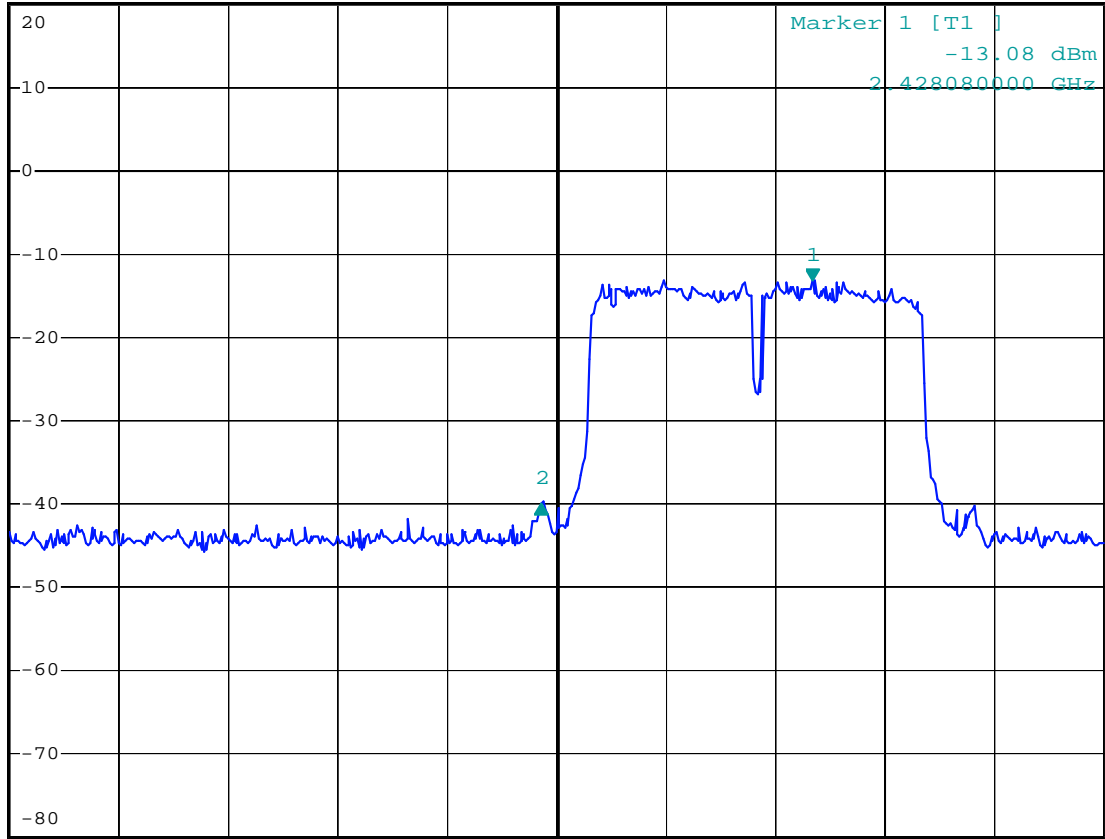


*RBW 100 kHz Delta 2 [T1]
*VBW 300 kHz -26.96 dB
SWT 15 ms -29.760000000 MHz

Ref 20 dBm

Att 50 dB

1 PK
MAXH



Center 2.4 GHz

12 MHz/

Span 120 MHz

Date: 2.NOV.2012 19:25:11

802.11n Channel High 2452MHz (40MHz)



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz -13.62 dBm
SWT 15 ms 2.458060000 GHz

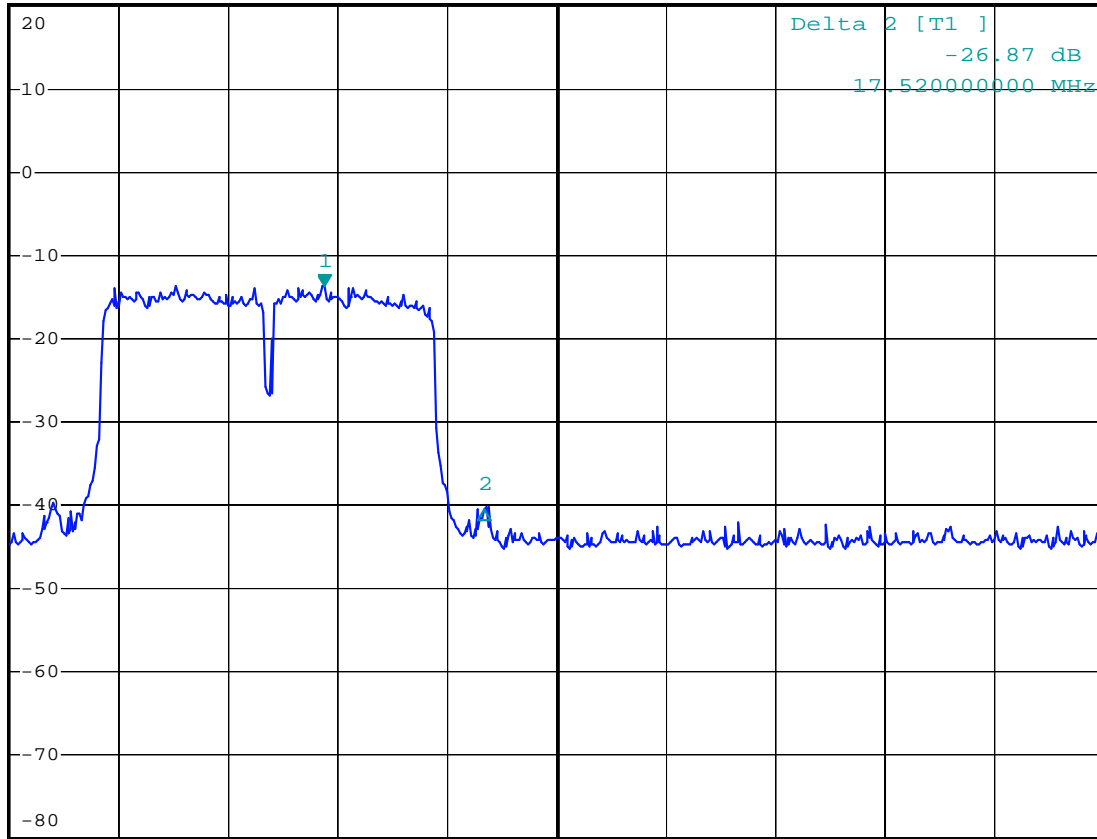
Ref 20 dBm

Att 50 dB

SWT 15 ms

2.458060000 GHz

1 PK
MAXH



Center 2.4835 GHz

12 MHz/

Span 120 MHz

Date: 2.NOV.2012 19:26:04

Radiated Band Edge Result

Date of Test:	<u>February 1, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>VX-S7001</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>802.11b Channel Low 2412MHz</u>	Test Engineer:	<u>Pei</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	
2310.000	39.54	44.51	-7.81	31.73	36.70	54.00	74.00	-22.27	-37.30	Vertical
2331.250	41.21	46.04	-7.80	33.41	38.24	54.00	74.00	-20.59	-35.76	Vertical
2390.000	43.33	48.94	-7.53	35.80	41.41	54.00	74.00	-18.20	-32.59	Vertical
2310.000	38.45	43.27	-7.81	30.64	35.46	54.00	74.00	-23.36	38.54	Horizontal
2331.000	41.11	46.26	-7.80	33.31	38.46	54.00	74.00	-20.69	-35.54	Horizontal
2390.000	40.36	45.50	-7.53	32.83	37.97	54.00	74.00	-21.17	-36.03	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>February 1, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>VX-S7001</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>802.11b Channel High 2462MHz</u>	Test Engineer:	<u>Pei</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	47.57	52.26	-7.37	40.20	44.89	54.00	74.00	-13.80	-29.11	Vertical
2495.276	46.66	51.87	-7.39	39.27	44.48	54.00	74.00	-14.73	-29.52	Vertical
2500.000	46.78	51.30	-7.40	39.38	43.90	54.00	74.00	-14.62	-30.10	Vertical
2483.500	43.36	48.23	-7.37	35.99	40.86	54.00	74.00	-18.01	-33.14	Horizontal
2496.040	45.57	50.19	-7.39	38.18	42.80	54.00	74.00	-15.82	-31.20	Horizontal
2500.000	44.14	49.93	-7.40	36.74	42.53	54.00	74.00	-17.26	-31.47	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:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Date of Test:	February 1, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	VX-S7001	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	40.65	45.39	-7.81	32.84	37.58	54.00	74.00	-21.16	-36.42	Vertical
2331.000	41.11	46.72	-7.80	33.31	38.92	54.00	74.00	-20.69	-35.08	Vertical
2390.000	44.21	49.89	-7.53	36.68	42.36	54.00	74.00	-17.32	-31.64	Vertical
2310.920	39.65	44.70	-7.81	31.84	36.89	54.00	74.00	-22.16	-37.11	Horizontal
2332.363	40.35	45.94	-7.81	32.54	38.13	54.00	74.00	-21.46	-35.87	Horizontal
2390.000	41.14	48.68	-7.53	33.61	41.15	54.00	74.00	-20.39	-32.85	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:	February 1, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	VX-S7001	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Pei

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	49.84	54.12	-7.37	42.47	46.75	54.00	74.00	-11.53	-27.25	Vertical
2496.000	49.54	54.11	-7.39	42.15	46.72	54.00	74.00	-11.85	-27.28	Vertical
2500.000	48.47	53.91	-7.40	41.07	46.51	54.00	74.00	-12.93	-27.49	Vertical
2483.500	47.74	56.16	-7.37	40.37	48.79	54.00	74.00	-13.63	-25.21	Horizontal
2496.000	46.57	51.39	-7.39	39.18	44.00	54.00	74.00	-14.82	-30.00	Horizontal
2500.000	46.66	51.70	-7.40	39.26	44.30	54.00	74.00	-14.74	-29.70	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>February 1, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>VX-S7001</u>	Power Supply:	<u>AC 120V/60Hz</u>
	<u>802.11n Channel Low 2412MHz</u>		
Test Mode:	<u>(20MHz)</u>	Test Engineer:	<u>Pei</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	
2310.000	41.65	46.77	-7.81	33.84	38.96	54.00	74.00	-20.16	-35.04	Vertical
2331.000	42.22	47.87	-7.80	34.42	40.07	54.00	74.00	-19.58	-33.93	Vertical
2390.665	52.14	57.40	-7.52	44.62	49.88	54.00	74.00	-9.38	-24.12	Vertical
2310.000	39.46	44.65	-7.81	31.65	36.84	54.00	74.00	-22.35	-37.16	Horizontal
2331.000	41.14	46.08	-7.80	33.34	38.28	54.00	74.00	-20.66	-35.72	Horizontal
2390.000	48.54	53.55	-7.53	41.01	46.02	54.00	74.00	-12.99	-27.98	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:	February 1, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	VX-S7001	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel High 2462MHz (20MHz)	Test Engineer:	Pei

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	56.67	61.19	-7.37	49.30	53.82	54.00	74.00	-4.70	-20.18	Vertical
2496.000	48.74	53.26	-7.39	41.35	45.87	54.00	74.00	-12.65	-28.13	Vertical
2500.000	46.67	51.53	-7.40	39.27	44.13	54.00	74.00	-14.73	-29.87	Vertical
2483.500	53.31	58.24	-7.37	45.94	50.87	54.00	74.00	-8.06	-23.13	Horizontal
2496.70	46.67	51.22	-7.39	39.28	43.83	54.00	74.00	-14.72	-30.17	Horizontal
2500.000	45.54	50.64	-7.40	38.14	43.24	54.00	74.00	-15.86	-30.76	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:	February 1, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	VX-S7001	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel Low 2422MHz (40MHz)	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	46.89	51.22	-7.81	39.08	43.41	54.00	74.00	-14.92	-30.59	Vertical
2342.646	45.69	50.99	-7.79	37.90	43.20	54.0	74.00	-16.10	-30.80	Vertical
2390.000	45.55	50.57	-7.53	38.02	43.04	54.00	74.00	-15.98	-30396	Vertical
2310.000	44.67	49.52	-7.81	36.86	41.71	54.00	74.00	-17.14	-32.29	Horizontal
2342.000	45.57	50.20	-7.80	37.77	42.40	54.00	74.00	-16.23	-31.60	Horizontal
2390.000	43.67	48.06	-7.53	36.14	40.53	54.00	74.00	-17.86	-33.47	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:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Date of Test:	<u>February 1, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>VX-S7001</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>802.11n Channel High 2452MHz (40MHz)</u>	Test Engineer:	<u>Pei</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	44.32	49.36	-7.37	36.95	41.99	54.00	74.00	-17.05	-32.01	Vertical
2494.000	42.34	47.48	-7.40	34.94	40.08	54.00	74.00	-19.06	-33.92	Vertical
2500.000	41.67	46.00	-7.40	34.27	38.60	54.00	74.00	-19.73	-35.40	Vertical
2483.500	41.68	46.42	-7.37	34.31	39.05	54.00	74.00	-19.69	-34.95	Horizontal
2494.000	41.15	46.09	-7.40	33.75	38.69	54.00	74.00	-20.25	-35.31	Horizontal
2500.000	40.03	45.86	-7.40	32.63	38.64	54.00	74.00	-21.37	-35.54	Horizontal

Note:

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



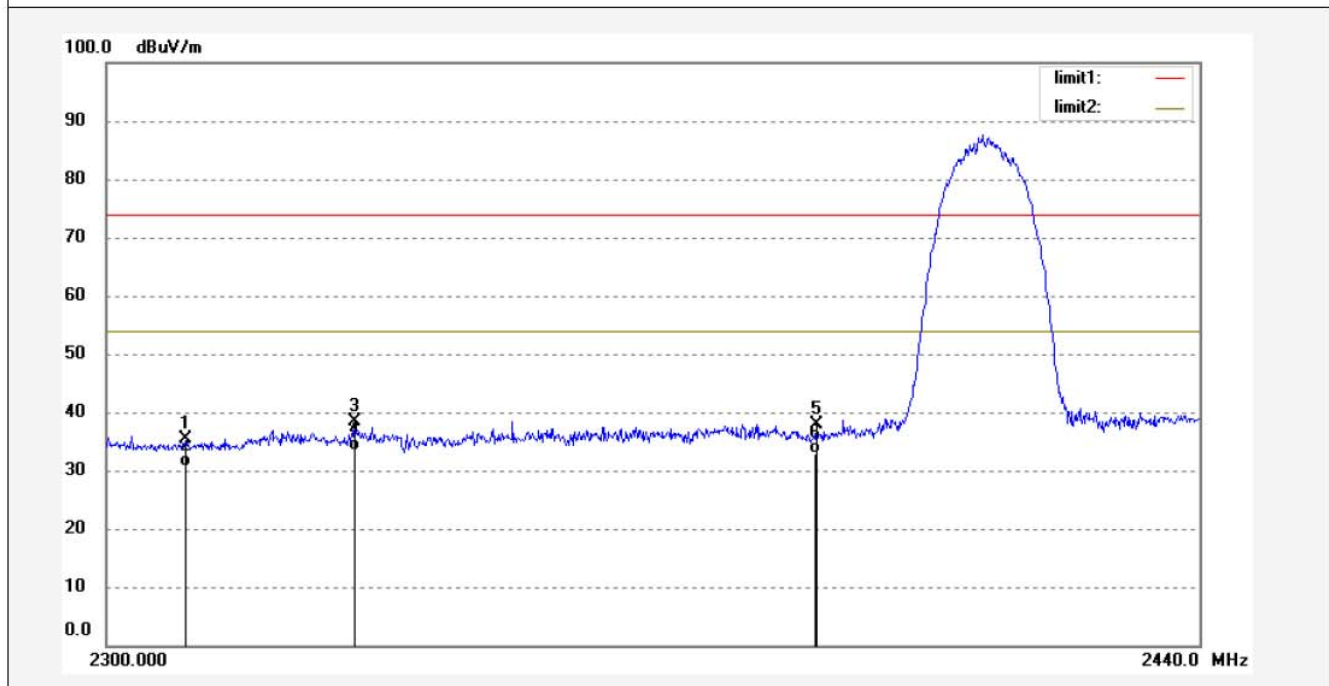
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #4725	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/02/32
EUT: MID	Engineer Signature:
Mode: Channel 1(802.11b)	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	43.27	-7.81	35.46	74.00	-38.54	peak			
2	2310.000	38.45	-7.81	30.64	54.00	-23.36	AVG			
3	2331.000	46.26	-7.80	38.46	74.00	-35.54	peak			
4	2331.000	41.11	-7.80	33.31	54.00	-20.69	AVG			
5	2390.000	45.50	-7.53	37.97	74.00	-36.03	peak			
6	2390.000	40.36	-7.53	32.83	54.00	-21.17	AVG			


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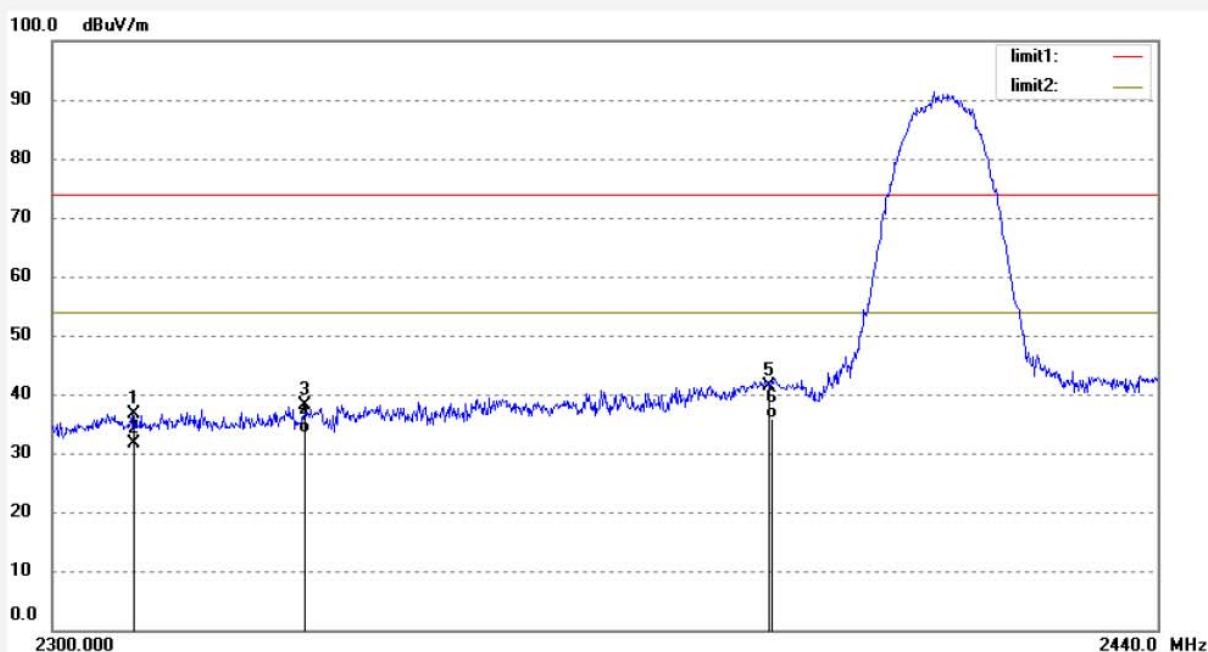
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

 Job No.: Bob #4724
 Standard: FCC PK
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 26 C / 55 %
 EUT: MID
 Mode: Channel 1(802.11b)
 Model: VX-S7001
 Manufacturer: Sungworld

 Polarization: Vertical
 Power Source: AC 120V/60Hz
 Date: 13/02/01
 Time: 9/00/31
 Engineer Signature:
 Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	44.51	-7.81	36.70	74.00	-37.30	peak			
2	2310.000	39.54	-7.81	31.73	54.00	-22.27	AVG			
3	2331.250	46.04	-7.80	38.24	74.00	-35.76	peak			
4	2331.250	41.21	-7.80	33.41	54.00	-20.59	AVG			
5	2390.000	48.94	-7.53	41.41	74.00	-32.59	peak			
6	2390.000	43.33	-7.53	35.80	54.00	-18.20	AVG			



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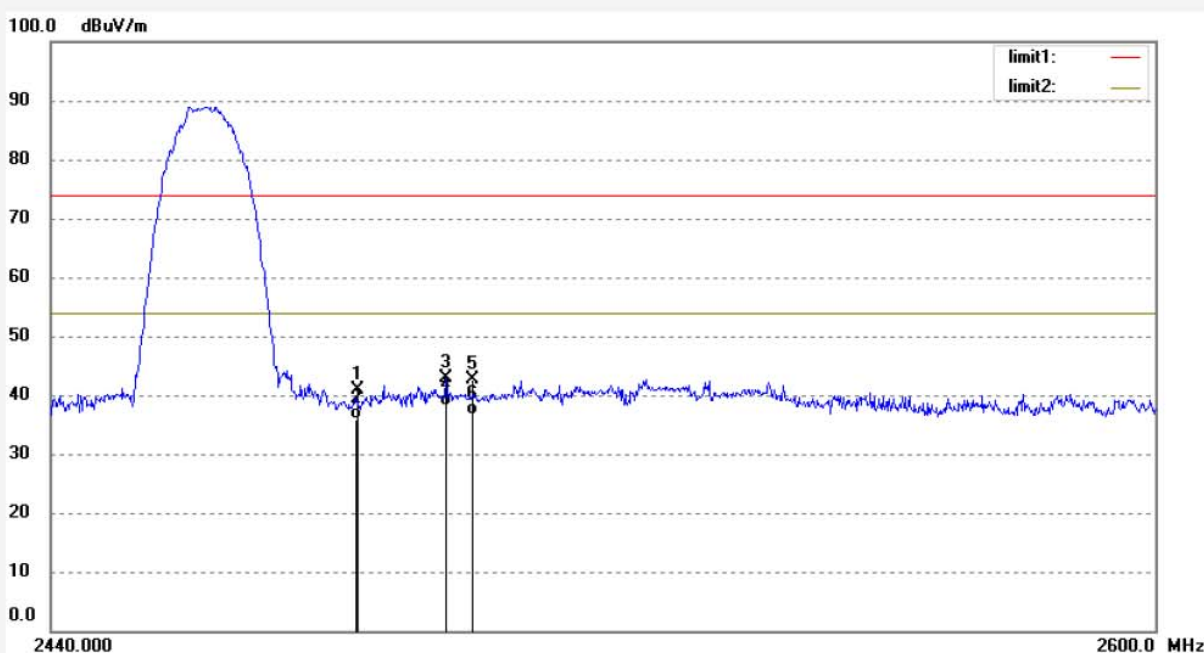
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #4726
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: MID
Mode: Channel 11(802.11b)
Model: VX-S7001
Manufacturer: Sungworld

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 13/02/01
Time: 9/04/24
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20130172



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	48.23	-7.37	40.86	74.00	-33.14	peak			
2	2483.500	43.36	-7.37	35.99	54.00	-18.01	AVG			
3	2496.040	50.19	-7.39	42.80	74.00	-31.20	peak			
4	2496.040	45.57	-7.39	38.18	54.00	-15.82	AVG			
5	2500.000	49.93	-7.40	42.53	74.00	-31.47	peak			
6	2500.000	44.14	-7.40	36.74	54.00	-17.26	AVG			


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Job No.: Bob #4727

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 11(802.11b)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

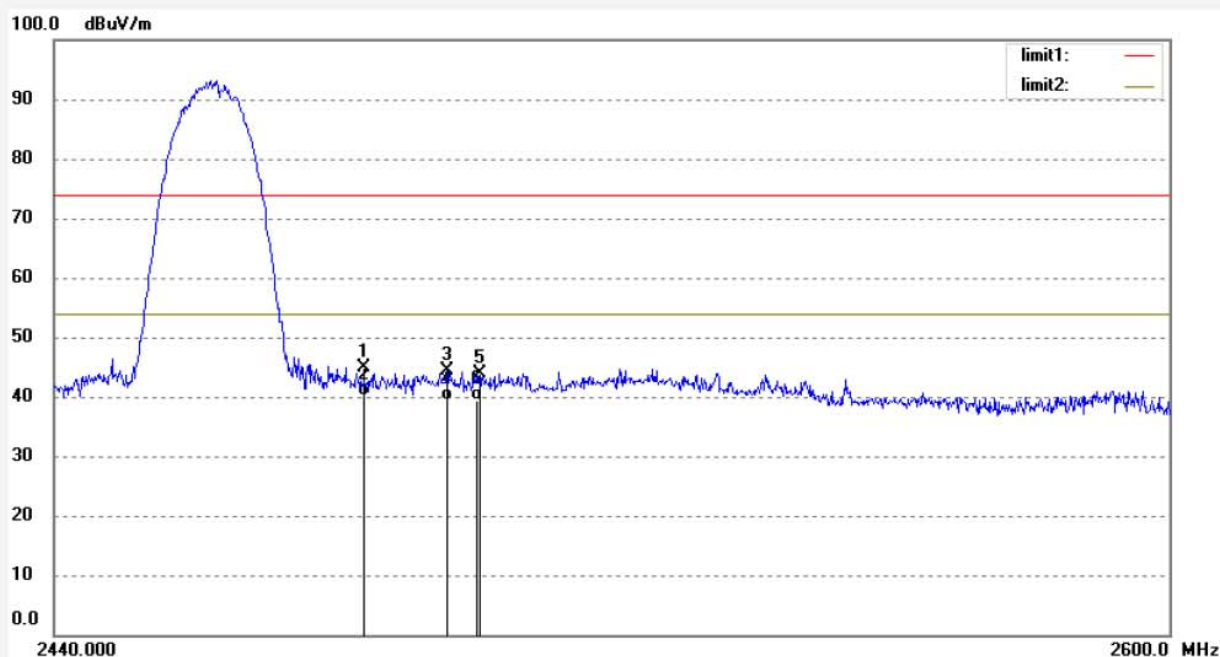
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Time: 9/06/22

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



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	52.26	-7.37	44.89	74.00	-29.11	peak			
2	2483.500	47.57	-7.37	40.20	54.00	-13.80	AVG			
3	2495.276	51.87	-7.39	44.48	74.00	-29.52	peak			
4	2495.276	46.66	-7.39	39.27	54.00	-14.73	AVG			
5	2500.000	51.30	-7.40	43.90	74.00	-30.10	peak			
6	2500.000	46.78	-7.40	39.38	54.00	-14.62	AVG			


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Job No.: Bob #4730

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 1(802.11g)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

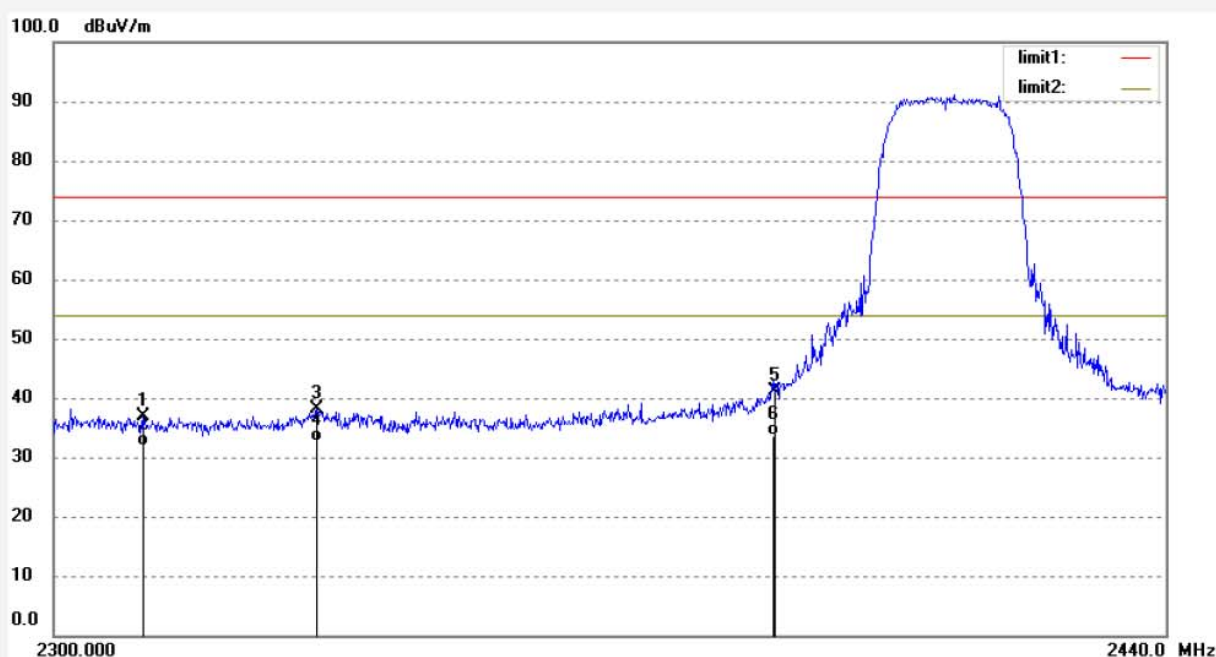
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Time: 9/12/21

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.920	44.70	-7.81	36.89	74.00	-37.11	peak			
2	2310.920	39.65	-7.81	31.84	54.00	-22.16	AVG			
3	2332.363	45.94	-7.81	38.13	74.00	-35.87	peak			
4	2332.363	40.35	-7.81	32.54	54.00	-21.46	AVG			
5	2390.000	48.68	-7.53	41.15	74.00	-32.85	peak			
6	2390.000	41.14	-7.53	33.61	54.00	-20.39	AVG			


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Fax:+86-0755-26503396

Job No.: Bob #4731

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 1(802.11g)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

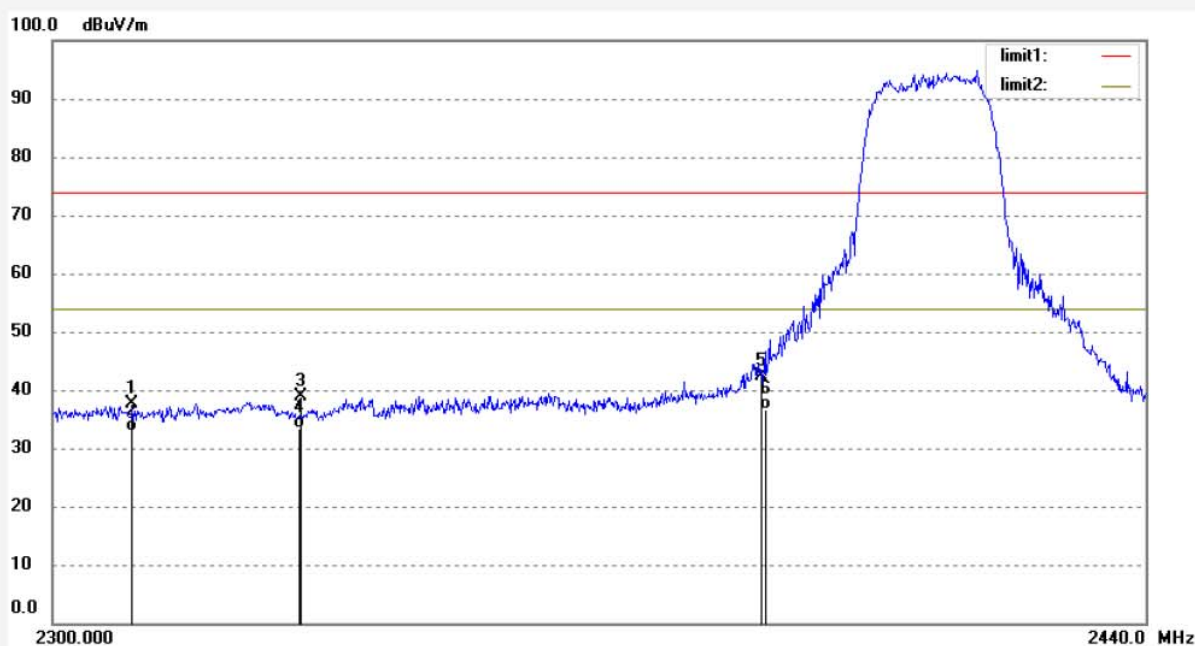
Date: 13/02/01

Time: 9/14/22

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	45.39	-7.81	37.58	74.00	-36.42	peak			
2	2310.000	40.65	-7.81	32.84	54.00	-21.16	AVG			
3	2331.000	46.72	-7.80	38.92	74.00	-35.08	peak			
4	2331.000	41.11	-7.80	33.31	54.00	-20.69	AVG			
5	2390.000	49.89	-7.53	42.36	74.00	-31.64	peak			
6	2390.000	44.21	-7.53	36.68	54.00	-17.32	AVG			



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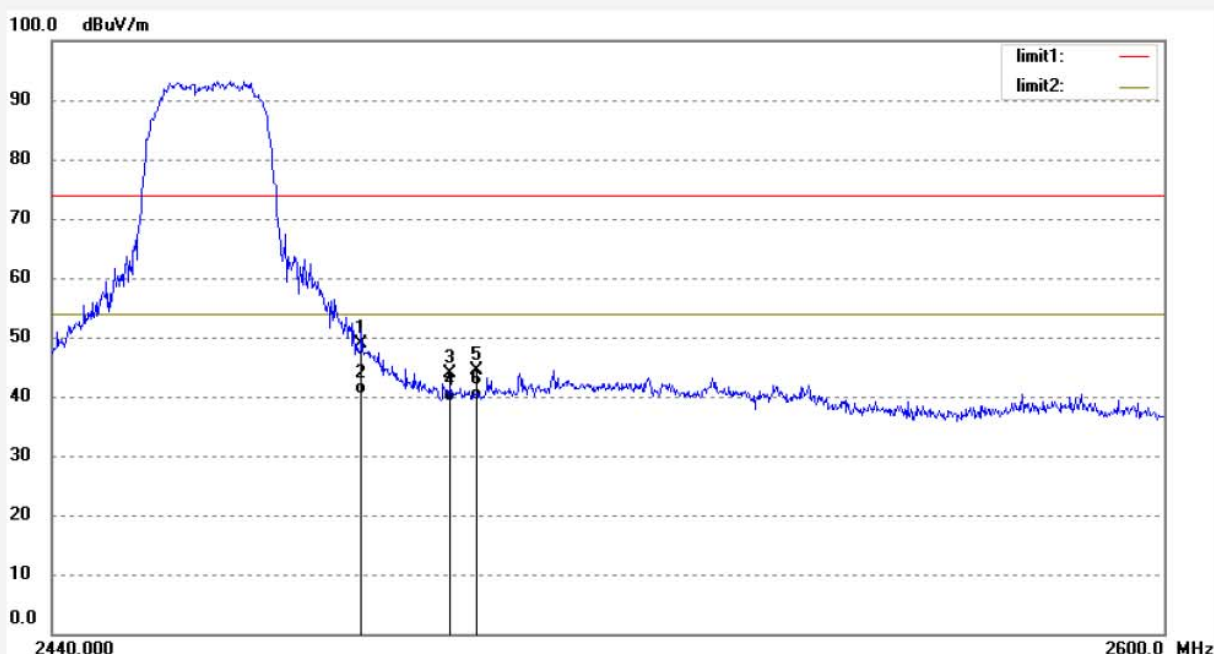
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #4729
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: MID
Mode: Channel 11(802.11g)
Model: VX-S7001
Manufacturer: Sungworld

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 13/02/01
Time: 9/10/11
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20130172



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	56.16	-7.37	48.79	74.00	-25.21	peak			
2	2483.500	47.74	-7.37	40.37	54.00	-13.63	AVG			
3	2496.000	51.39	-7.39	44.00	74.00	-30.00	peak			
4	2496.000	46.57	-7.39	39.18	54.00	-14.82	AVG			
5	2500.000	51.70	-7.40	44.30	74.00	-29.70	peak			
6	2500.000	46.66	-7.40	39.26	54.00	-14.74	AVG			



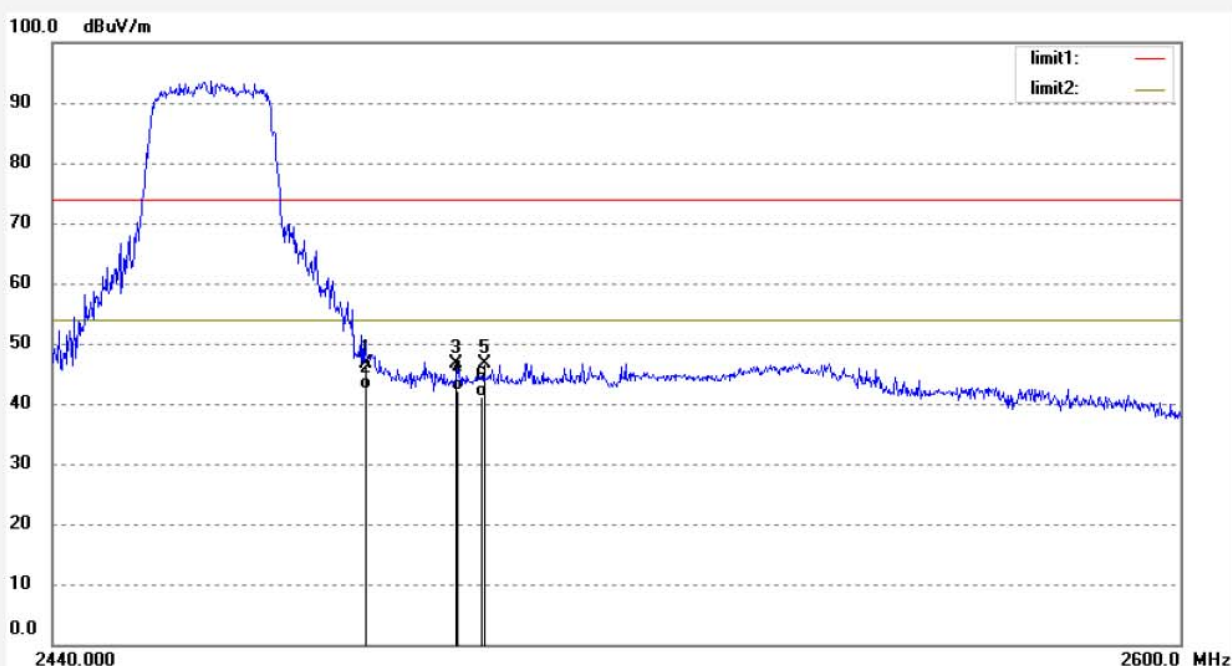
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #4728	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/08/12
EUT: MID	Engineer Signature:
Mode: Channel 11(802.11g)	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



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	54.12	-7.37	46.75	74.00	-27.25	peak			
2	2483.500	49.84	-7.37	42.47	54.00	-11.53	AVG			
3	2496.000	54.11	-7.39	46.72	74.00	-27.28	peak			
4	2496.000	49.54	-7.39	42.15	54.00	-11.85	AVG			
5	2500.000	53.91	-7.40	46.51	74.00	-27.49	peak			
6	2500.000	48.47	-7.40	41.07	54.00	-12.93	AVG			



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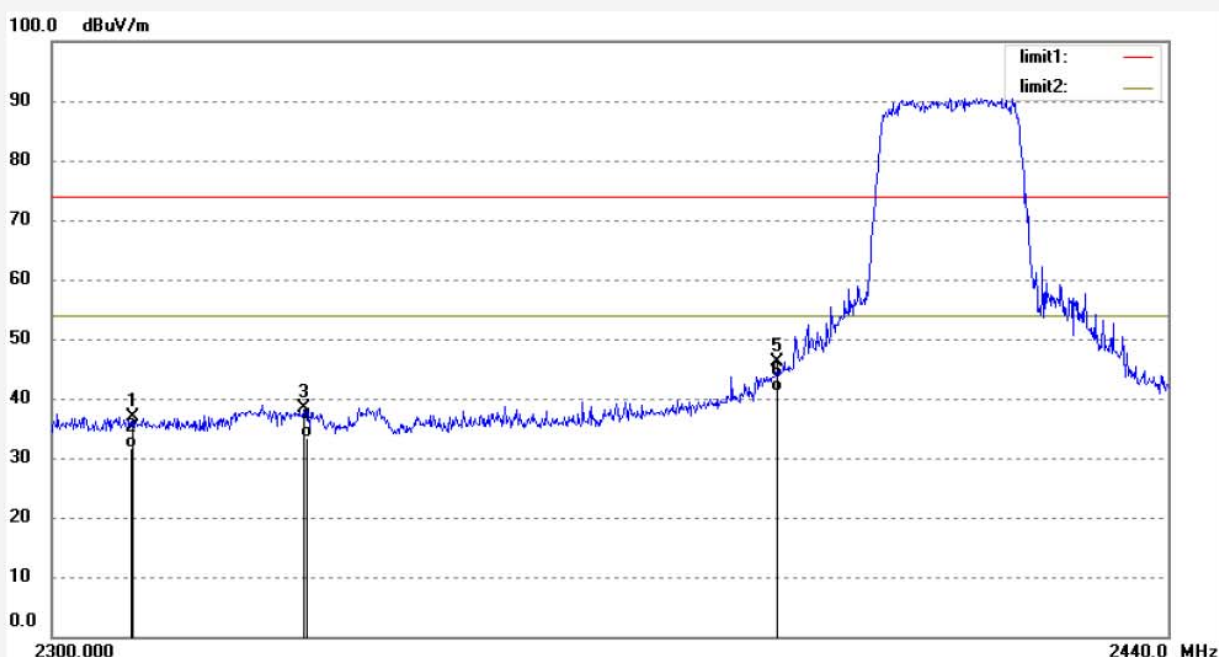
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Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #4733
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: MID
Mode: Channel 1(802.11n)20MHz
Model: VX-S7001
Manufacturer: Sungworld

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 13/02/01
Time: 9/18/41
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	44.65	-7.81	36.84	74.00	-37.16	peak			
2	2310.000	39.46	-7.81	31.65	54.00	-22.35	AVG			
3	2331.000	46.08	-7.80	38.28	74.00	-35.72	peak			
4	2331.000	41.14	-7.80	33.34	54.00	-20.66	AVG			
5	2390.000	53.55	-7.53	46.02	74.00	-27.98	peak			
6	2390.000	48.54	-7.53	41.01	54.00	-12.99	AVG			



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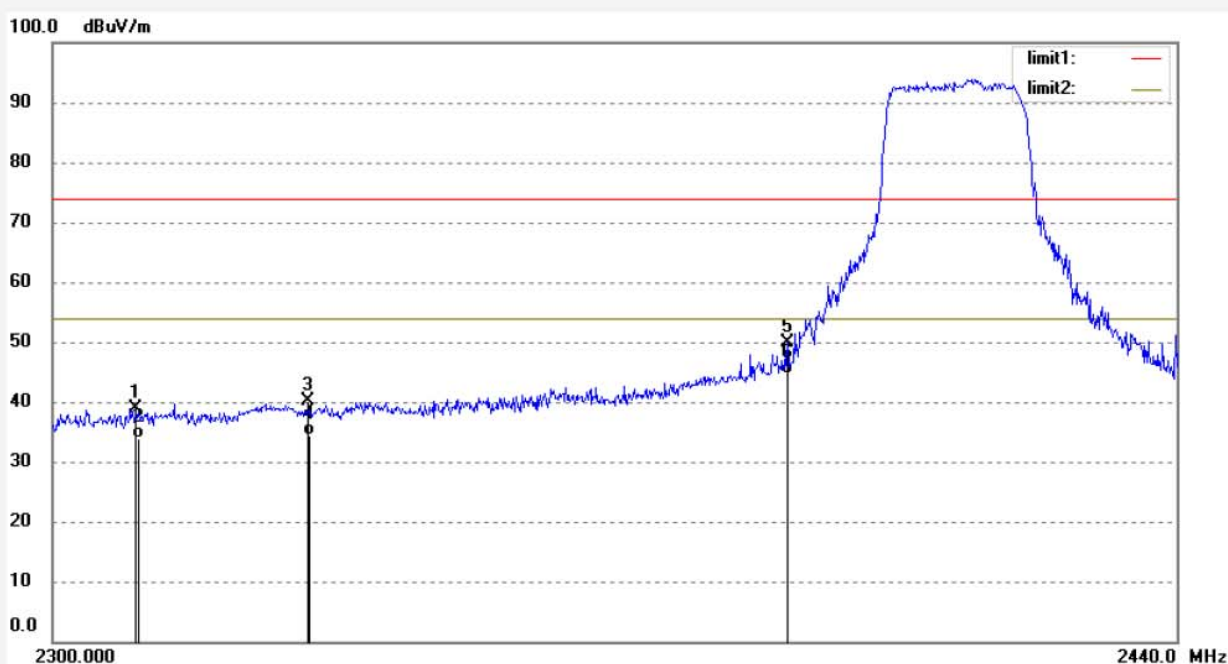
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #4732
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: MID
Mode: Channel 1(802.11n)20MHz
Model: VX-S7001
Manufacturer: Sungworld

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/02/01
Time: 9/16/56
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	46.77	-7.81	38.96	74.00	-35.04	peak			
2	2310.000	41.65	-7.81	33.84	54.00	-20.16	AVG			
3	2331.000	47.87	-7.80	40.07	74.00	-33.93	peak			
4	2331.000	42.22	-7.80	34.42	54.00	-19.58	AVG			
5	2390.665	57.40	-7.52	49.88	74.00	-24.12	peak			
6	2390.665	52.14	-7.52	44.62	54.00	-9.38	AVG			



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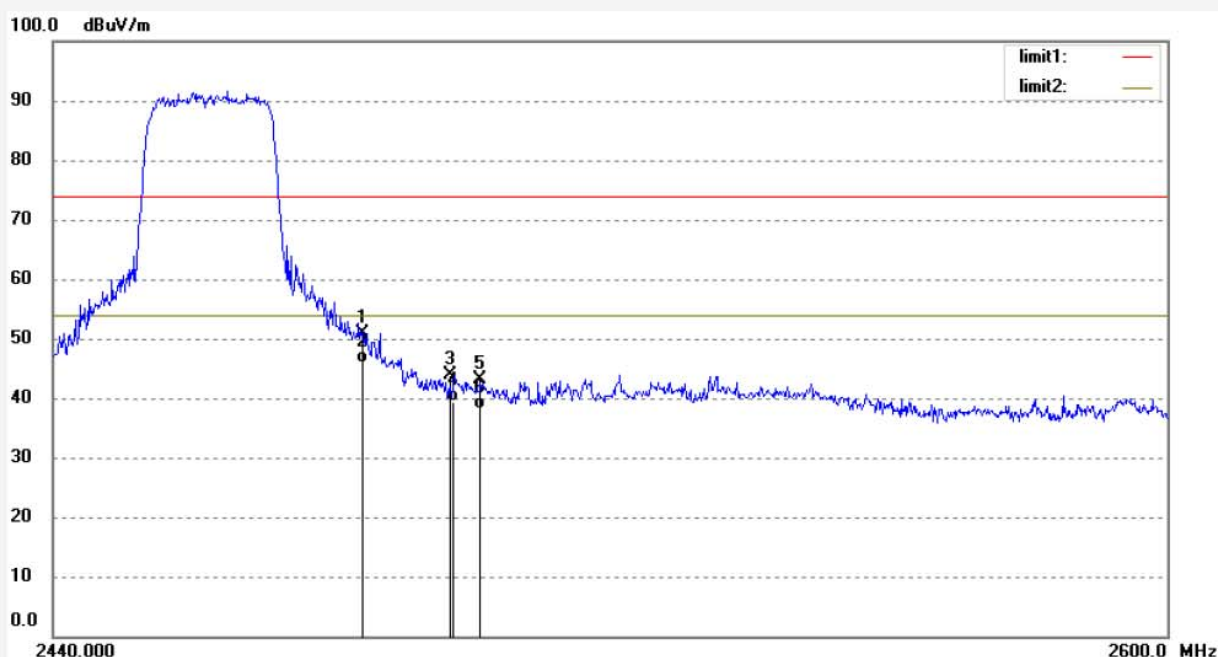
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #4734
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: MID
Mode: Channel 11(802.11n)20MHz
Model: VX-S7001
Manufacturer: Sungworld

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 13/02/01
Time: 9/20/51
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20130172



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	58.24	-7.37	50.87	74.00	-23.13	peak			
2	2483.500	53.31	-7.37	45.94	54.00	-8.06	AVG			
3	2496.070	51.22	-7.39	43.83	74.00	-30.17	peak			
4	2496.070	46.67	-7.39	39.28	54.00	-14.72	AVG			
5	2500.000	50.64	-7.40	43.24	74.00	-30.76	peak			
6	2500.000	45.54	-7.40	38.14	54.00	-15.86	AVG			



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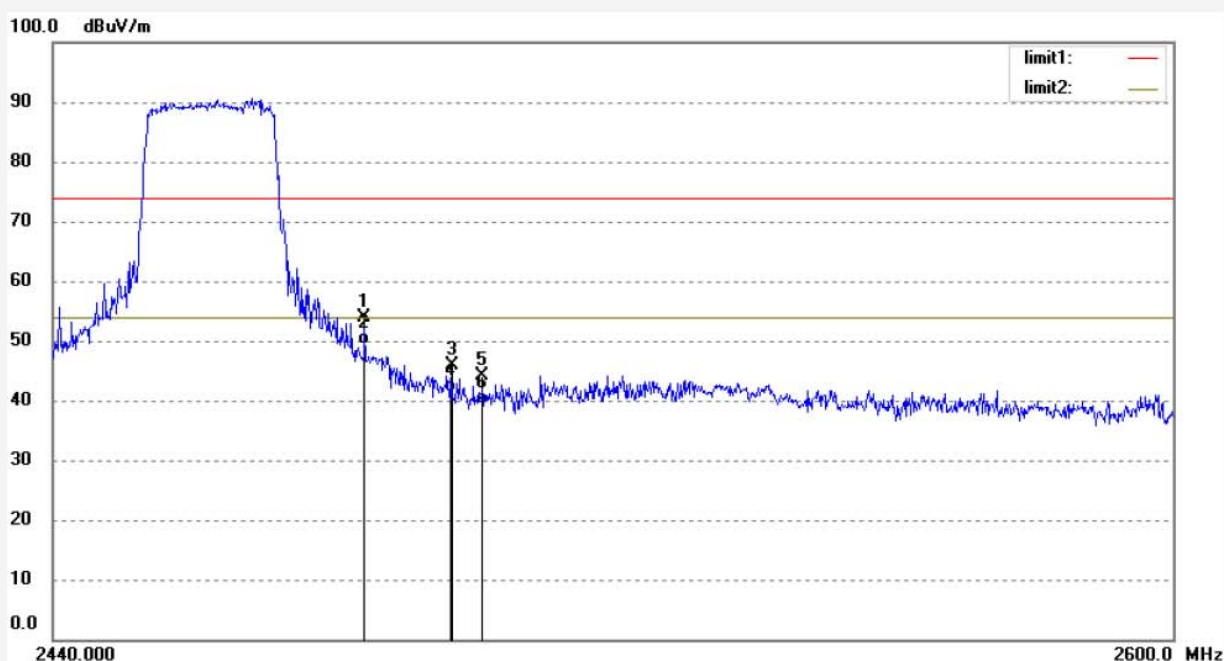
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #4735
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: MID
Mode: Channel 11(802.11n)20MHz
Model: VX-S7001
Manufacturer: Sungworld

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/02/01
Time: 9/22/14
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20130172



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	61.19	-7.37	53.82	74.00	-20.18	peak			
2	2483.500	56.67	-7.37	49.30	54.00	-4.70	AVG			
3	2496.000	53.26	-7.39	45.87	74.00	-28.13	peak			
4	2496.000	48.74	-7.39	41.35	54.00	-12.65	AVG			
5	2500.000	51.53	-7.40	44.13	74.00	-29.87	peak			
6	2500.000	46.67	-7.40	39.27	54.00	-14.73	AVG			



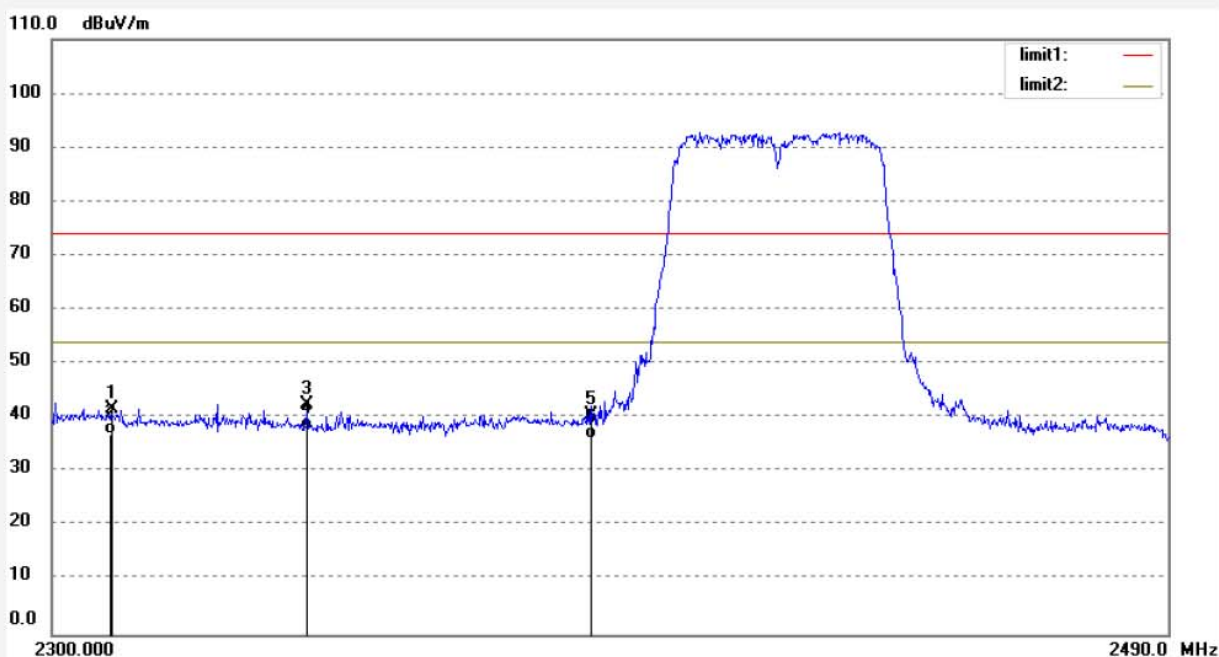
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Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #4739	Polarization: Horizontal
Standard: FCC 15C PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/30/34
EUT: MID	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	49.52	-7.81	41.71	74.00	-32.29	peak			
2	2310.000	44.67	-7.81	36.86	54.00	-17.14	AVG			
3	2342.000	50.20	-7.80	42.40	74.00	-31.60	peak			
4	2342.000	45.57	-7.80	37.77	54.00	-16.23	AVG			
5	2390.000	48.06	-7.53	40.53	74.00	-33.47	peak			
6	2390.000	43.67	-7.53	36.14	54.00	-17.86	AVG			



ACCURATE TECHNOLOGY CO., LTD.

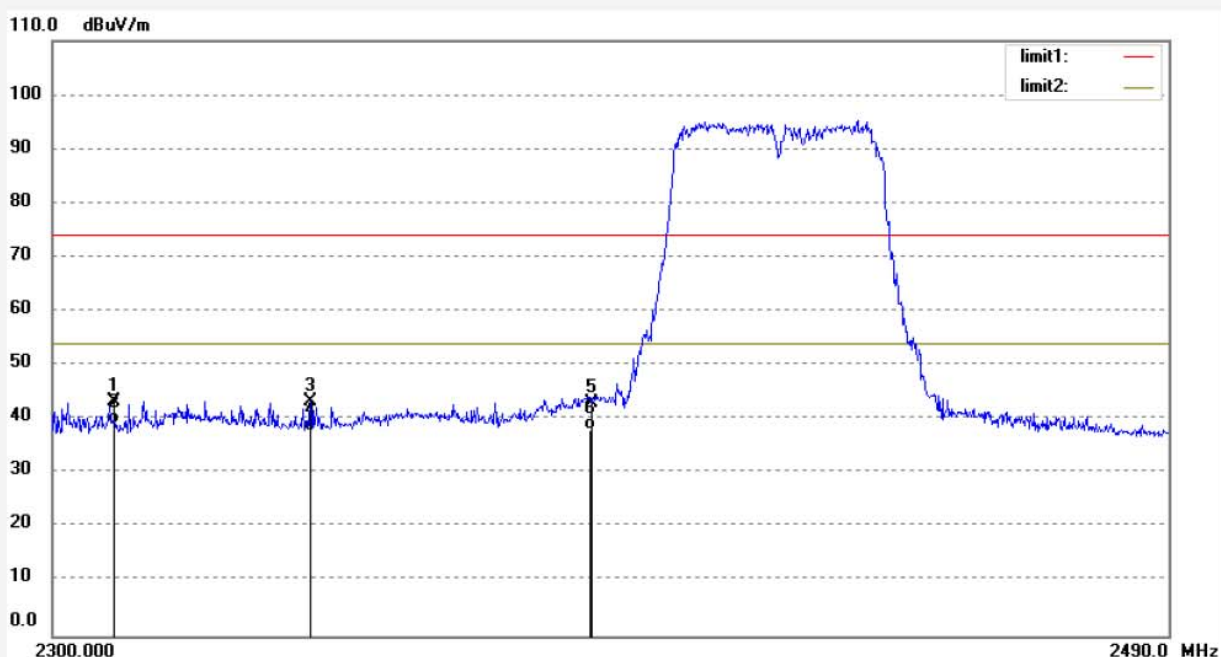
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #4738
Standard: FCC 15C PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: MID
Mode: TX Channel 3(802.11n)40MHz
Model: VX-S7001
Manufacturer: Sungworld

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 13/02/01
Time: 9/28/21
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	51.22	-7.81	43.41	74.00	-30.59	peak			
2	2310.000	46.89	-7.81	39.08	54.00	-14.92	AVG			
3	2342.646	50.99	-7.79	43.20	74.00	-30.80	peak			
4	2342.646	45.69	-7.79	37.90	54.00	-16.10	AVG			
5	2390.000	50.57	-7.53	43.04	74.00	-30.96	peak			
6	2390.000	45.55	-7.53	38.02	54.00	-15.98	AVG			



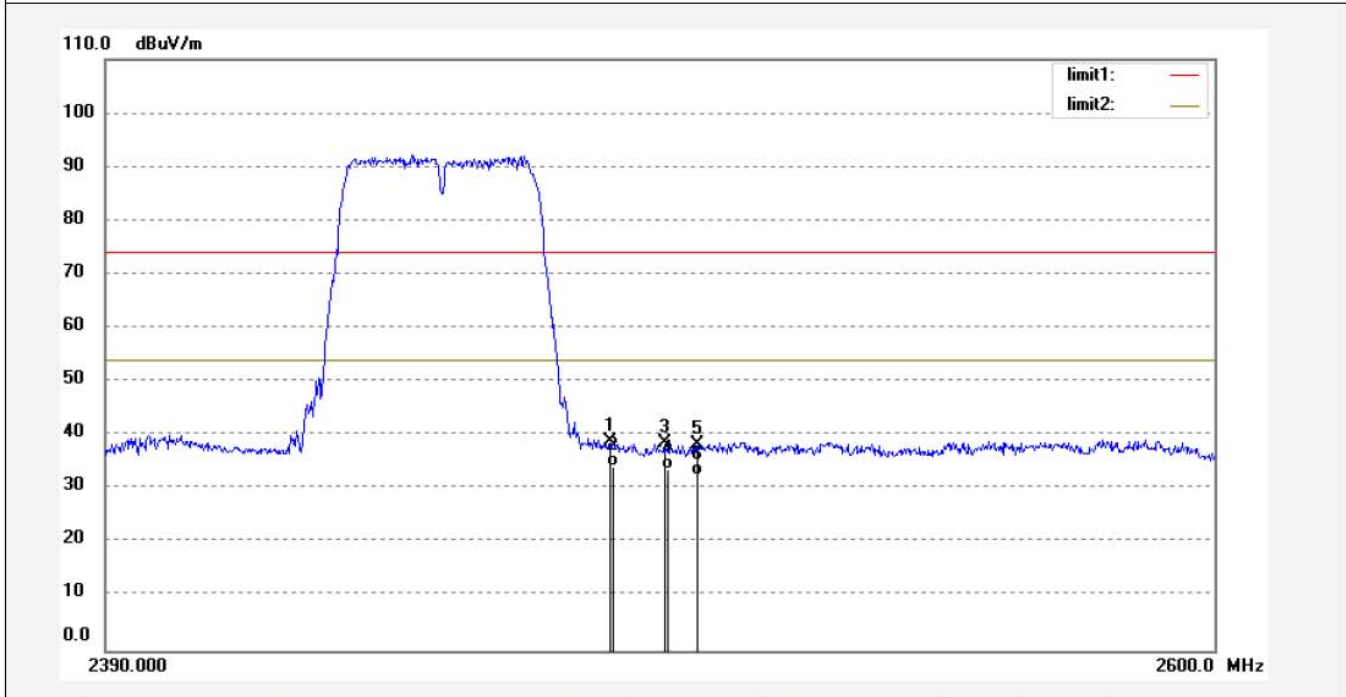
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: Bob #4736	Polarization: Horizontal
Standard: FCC 15C PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/24/19
EUT: MID	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.42	-7.37	39.05	74.00	-34.95	peak			
2	2483.500	41.68	-7.37	34.31	54.00	-19.69	AVG			
3	2494.000	46.09	-7.40	38.69	74.00	-35.31	peak			
4	2494.000	41.15	-7.40	33.75	54.00	-20.25	AVG			
5	2500.000	45.86	-7.40	38.46	74.00	-35.54	peak			
6	2500.000	40.03	-7.40	32.63	54.00	-21.37	AVG			



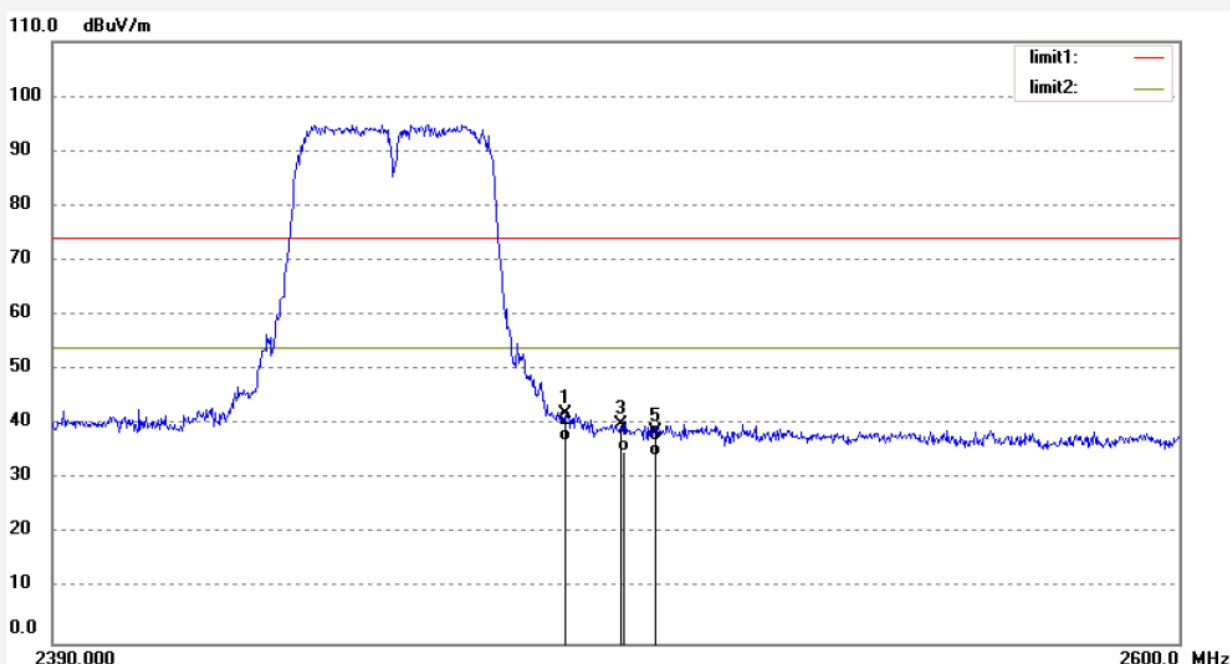
ACCURATE TECHNOLOGY CO., LTD.

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.: Bob #4737	Polarization: Vertical
Standard: FCC 15C PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/02/01
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 9/26/32
EUT: MID	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VX-S7001	
Manufacturer: Sungworld	

Note: Report No.:ATE20130172

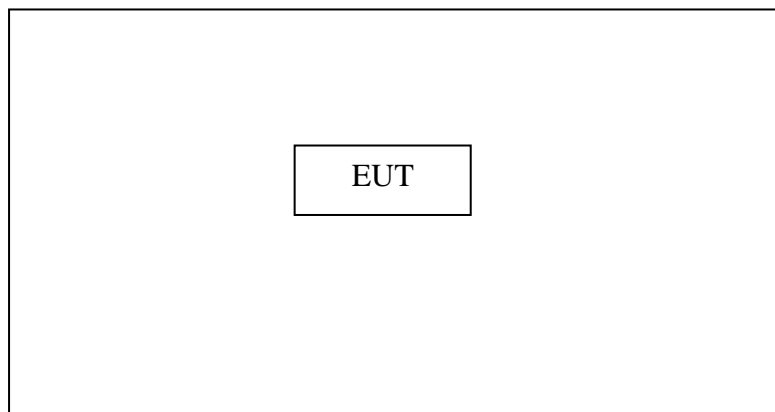


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	49.36	-7.37	41.99	74.00	-32.01	peak			
2	2483.500	44.32	-7.37	36.95	54.00	-17.05	AVG			
3	2494.000	47.48	-7.40	40.08	74.00	-33.92	peak			
4	2494.000	42.34	-7.40	34.94	54.00	-19.06	AVG			
5	2500.000	46.00	-7.40	38.60	74.00	-35.40	peak			
6	2500.000	41.67	-7.40	34.27	54.00	-19.73	AVG			

9. RADIATED SPURIOUS EMISSION TEST

9.1. Block Diagram of Test Setup

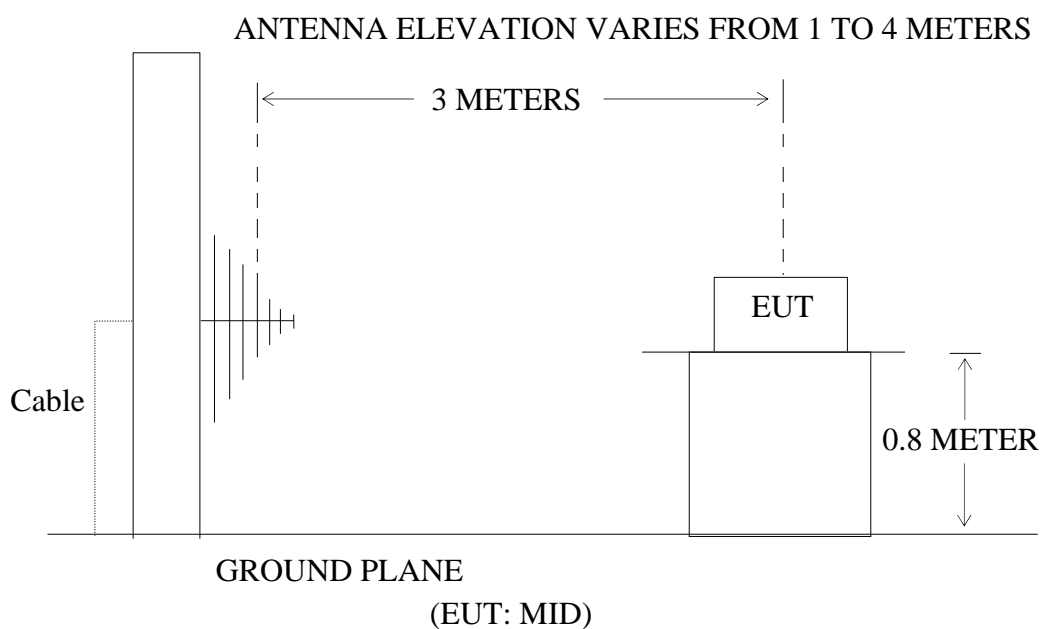
9.1.1. Block diagram of connection between the EUT and peripherals



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

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

²Above 38.6

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

9.4. Configuration of EUT on Measurement

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

9.4.1. MID (EUT)

Model Number : VX-S7001
 Serial Number : N/A
 Manufacturer : Shenzhen Sungworld 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: 2009 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 150Mbps for 802.11n mode, based on previous with 802.11 WLAN product design architectures.

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

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

The final measurement in band 9-90kHz, 110-490kHz 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:	February 1, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	VX-S7001	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Pei

For Below 30MHz

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

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
35.3867	11.85	15.60	27.45	40.00	-12.55	Vertical
54.5167	12.45	14.10	26.55	40.00	-13.45	
152.0902	15.29	11.54	26.83	43.50	-16.67	
55.6782	12.83	13.94	26.77	40.00	-13.23	Horizontal
147.8747	14.98	11.51	26.49	43.50	-17.01	
189.7732	14.94	13.87	28.81	43.50	-14.69	

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	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test:	February 1, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	VX-S7001	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel Middle 2437MHz	Test Engineer:	Pei

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	
36.1406	12.24	15.43	27.67	40.00	-12.33	Vertical
54.5167	16.77	14.10	30.87	40.00	-9.13	
152.0902	13.31	11.54	24.85	43.50	-18.65	
55.8742	10.32	13.90	24.22	40.00	-15.78	Horizontal
151.5567	14.87	11.54	26.41	43.50	-17.09	
190.4411	15.47	13.88	29.35	43.50	-14.15	

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	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test:	February 1, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	VX-S7001	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel High 2462MHz	Test Engineer:	Pei

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	
55.4829	8.88	13.98	22.86	40.00	-17.14	Vertical
151.5567	14.36	11.54	25.90	43.50	-17.60	
191.7841	15.41	13.93	29.34	43.50	-14.16	
36.6521	12.22	15.31	27.53	40.00	-12.47	Horizontal
53.9451	16.61	14.15	30.76	40.00	-9.24	
152.6255	16.54	11.55	28.09	43.50	-15.41	

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	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**

Date of Test:	February 1, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	VX-S7001	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Pei

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	
55.6782	10.13	13.94	24.07	40.00	-15.93	Vertical
148.3951	14.66	11.51	26.17	43.50	-17.33	
190.4411	15.55	13.88	29.43	43.50	-14.07	
36.2678	13.95	15.40	29.35	40.00	-10.65	Horizontal
54.7086	17.78	14.10	31.88	40.00	-8.12	
153.1627	16.66	11.55	28.21	43.50	-15.29	

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	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

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

2. *: Denotes restricted band of operation.

3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.

Date of Test:	February 1, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	VX-S7001	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Middle 2437MHz	Test Engineer:	Pei

For Below 30MHz

Frequency (MHz)	Reading (dBμV/m)		Factor(dB) Corr.	Result (dBμV/m)		Limit (dBμV/m)	Margin (dB)		Polarization
	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		
55.4829	12.04		13.98	26.02		40.00	-13.98		Vertical
148.9175	15.74		11.52	27.26		43.50	-16.24		
189.7732	14.65		13.87	28.52		43.50	-14.98		
35.7617	13.21		15.51	27.72		40.00	-11.28		Horizontal
54.3255	18.21		14.12	32.33		40.00	-7.67		
151.5567	15.84		11.54	27.38		43.50	-16.12		

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	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**2. *: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.**