



FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Applicant : CPI GLOBAL

Address : 32 RUE DU BALLON 93160 NOISY LE GRAND

Product Name : Tablet

Model Name : CPI176367

Brand Name :



FCC ID : R9E-CPI176367

Report No. : MTE/DAL/D12111775

Date of Issue : Jan. 18, 2013

Issued by : Most Technology Service Co., Ltd.

**Address : No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan,
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1. VERIFICATION OF CONFORMITY

Equipment Under Test: Tablet

Brand Name:



Model Number: CPI176367

Series Model Number: N/A

FCC ID: R9E-CPI176367

Applicant: CPI GLOBAL

32 RUE DU BALLON 93160 NOISY LE GRAND

Manufacturer: Shenzhen Alldocube Technology and Science Co., Ltd.

4F, 17 Building, Pingshan Industrial Park, Middle of Liuxian Road, Xili Town,
Nanshan District, Shenzhen, China

Technical Standards: 47 CFR Part 15 Subpart C

File Number: MTE/DAL/D12111775

Date of test: Dec. 10, 2012-Jan. 16, 2013

Deviation: None

Condition of Test Sample: Normal

Test Result: PASS

The above equipment was tested by *MOST* for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Prepared by (+ signature):

A handwritten signature in blue ink that reads 'Dona'.

Dona Liu

Jan. 18, 2013

Review by (+ signature):

A handwritten signature in blue ink that reads 'Elva'.

Elva Wong

Jan. 18, 2013

Approved by (+ signature):

A handwritten signature in blue ink that reads 'Yvette'.

Yvette Zhou(Manager)

Jan. 18, 2013



2. GENERAL INFORMATION

2.1 Product Information

Description:	Tablet
Model Name:	CPI176367
Series Number:	N/A
Model Difference description:	N/A
Frequency Range:	802.11b/g/n(20MHz):2412MHz – 2462MHz 802.11n(40MHz): 2422MHz-2452MHz
Number of Channels:	IEEE 802.11b/g/nmode: 11 Channels
Modulation Technique:	IEEE 802.11b mode: DSSS IEEE 802.11g mode: OFDM 802.11n Standard-20 MHz Channel mode: OFDM 802.11n Standard-40 MHz Channel mode: OFDM
Antenna Type:	Internal Fixed
Antenna Gain:	-3.0dBi
Power Supply:	DC 5V by AC adapter 100~240V 50/60Hz
Temperature Range:	-5°C ~ +40°C

NOTE:

1. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

Perform FCC Part 15 Subpart C tests for FCC Marking.

2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Section	Description	Result	Date of Test
1	15.247(a)(2)	6dB Bandwidth	PASS	2012/12/14
2	15.247(b)(3)	Peak Output Power	PASS	2012/12/14
3	15.247(d)	conducted spurious emission	PASS	2012/12/14
4	15.247(d)	Band Edge	PASS	2013/01/16
5	15.247(e)	Power Spectral Density	PASS	2012/12/14
6	15.207	Conducted Emission	PASS	2012/12/13
7	15.247(d) 15.205 15.209	Radiated Emission	PASS	2012/12/10

Note: 1. The test result judgment is decided by the limit of measurement standard
2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

2.5 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

The report uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, Providing a level of confidence of approximately 95%

- Uncertainty of Conducted Emission, $U_c = \pm 1.8\text{dB}$
- Uncertainty of Radiated Emission, $U_c = \pm 3.2\text{dB}$

3. TEST FACILITY

Test Site:	Most Technology Service Co., Ltd.
Location:	No.5, Nangshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China
Description:	There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16 requirements. The FCC Registration Number is 490827.
Site Filing:	The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
Instrument Tolerance:	All measuring equipment is in accord with ANSI C63.4 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement.
Ground Plane:	Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of measurement up to 1GHz.
558074 D01 DTS Meas Guidance v01 :	provides Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under CFR Title 47 15.247

3.2 Test Conditions

The EUT has been tested under normal operating (TX) and standby (RX) condition.

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

3.3 Channel List

Channel List for 802.11b/g/n(20MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412MHz	05	2432MHz	09	2452MHz
02	2417MHz	06	2437MHz	10	2457MHz
03	2422MHz	07	2442MHz	11	2462MHz
04	2427MHz	08	2447MHz		
Channel List for 802.11n(40MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422MHz	07	2442MHz		
04	2427MHz	08	2447MHz		
05	2432MHz	09	2452MHz		
06	2437MHz				

3.4 Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level, Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively

Pre-test Mode	Description
Mode 1	802.11b CH01/CH07/CH11
Mode 2	802.11g CH01/CH07/CH11
Mode 3	802.11n(20MHz)CH01/CH07/CH11
Mode 4	802.11n(40MHz)CH03/CH07/CH09

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all bit rate of transmitter, the worst data was reported.

3.5 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level, the RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software Version	Test channels		
802.11b	2412MHz	2442MHz	2462MHz
802.11g	2412MHz	2442MHz	2462MHz
802.11n(20MHz)	2412MHz	2442MHz	2462MHz
802.11n(40MHz)	2422MHz	2442MHz	2452MHz

4. TEST EQUIPMENT LIST

4.1. TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1/ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration Interval
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2012/03/14	1 Year
2	Spectrum Analyzer	Agilent	E7405A	US44210471	2012/03/14	1 Year
3	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2012/03/14	1 Year
4	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2012/03/14	1 Year
5	Terminator	Hubersuhner	50Ω	No.1	2012/03/14	1 Year
6	RF Cable	SchwarzBeck	N/A	No.1	2012/03/14	1 Year
7	Test Receiver	Rohde & Schwarz	ESPI	101202	2012/03/14	1 Year
8	Bilog Antenna	Sunol	JB3	A121206	2012/03/14	1 Year
9	Horn Antenna	SCHWARZBECK	BBHA9120D	756	2012/03/14	1 Year
10	Cable	Resenberger	N/A	NO.1	2012/03/14	1 Year
11	Cable	SchwarzBeck	N/A	NO.2	2012/03/14	1 Year
12	Cable	SchwarzBeck	N/A	NO.3	2012/03/14	1 Year
13	DC Power Filter	DuoJi	DL2×30B	N/A	2012/03/14	1 Year
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2012/03/14	1 Year
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2012/03/14	1 Year
16	Test Receiver	Rohde & Schwarz	ESCI	100492	2012/03/14	1 Year
17	Absorbing Clamp	Luthi	MDS21	3635	2012/03/14	1 Year
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2012/03/14	1 Year
19	AC Power Source	Kikusui	AC40MA	LM003232	2012/03/14	1 Year
20	Test Analyzer	Kikusui	KHA1000	LM003720	2012/03/14	1 Year
21	Line Impedence Network	Kikusui	LIN40MA-PCR-L	LM002352	2012/03/14	1 Year
22	ESD Tester	Kikusui	KES4021	LM003537	2012/03/14	1 Year
23	EMC PRO System	EM Test	UCS-500-M4	V0648102026	2012/03/14	1 Year
24	Signal Generator	IFR	2032	203002/100	2012/03/14	1 Year
25	Amplifier	A&R	150W1000	301584	2012/03/14	1 Year
26	CDN	FCC	FCC-801-M2-25	47	2012/03/14	1 Year
27	CDN	FCC	FCC-801-M3-25	107	2012/03/14	1 Year
28	EM Injection Clamp	FCC	F-2031-23mm	403	2012/03/14	1 Year
29	RF Cable	MIYAZAKI	N/A	No.1/No.2	2012/03/14	1 Year
30	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2012/03/14	1 Year
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2012/03/14	1 Year
32	8 Loop Antenna	ARA	PLA-1030/B	1029	2012/02/19	1 Year
33	Power Meter	R&S	NRVS	100444	2012/03/14	1 Year
34	Horn Antenna	Penn Engineering	9034	8376	2012/03/14	1 Year

NOTE: Equipments listed above have been calibrated and are in the period of validation.

4.2 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
AC Adapter	Ju Jia Da	JD-050200	N/A	N/A	1.0m Un-shielded

Remark:

All the equipment/cables were placed in the worst-case [-configuration to maximize the emission during the test.

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5. 47 CFR Part 15 C 15.247 Requirements

5.1 6dB Bandwidth

5.1.1 Definition

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.1.2 Limit

FCC Part15(15.247)				
Section	Test Item	Limit	Frequency Range(MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB Bandwidth)	2400-2483.5	PASS

5.1.3 Test Configuration

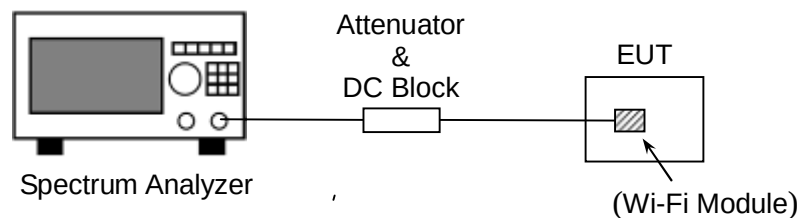


Figure 1: RF Test Setup

5.1.4 Test Procedure

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	$>$ Measurement bandwidth or channel separation
RB	1-5% of the emission bandwidth(EBW)
VB	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

The EUT is powered by the Battery, is coupled to the Spectrum Analyzer (SA) through the Attenuator/DC Block. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power. The RF load attached to the EUT antenna terminal is 50Ohm.

5.1.5 Test Result

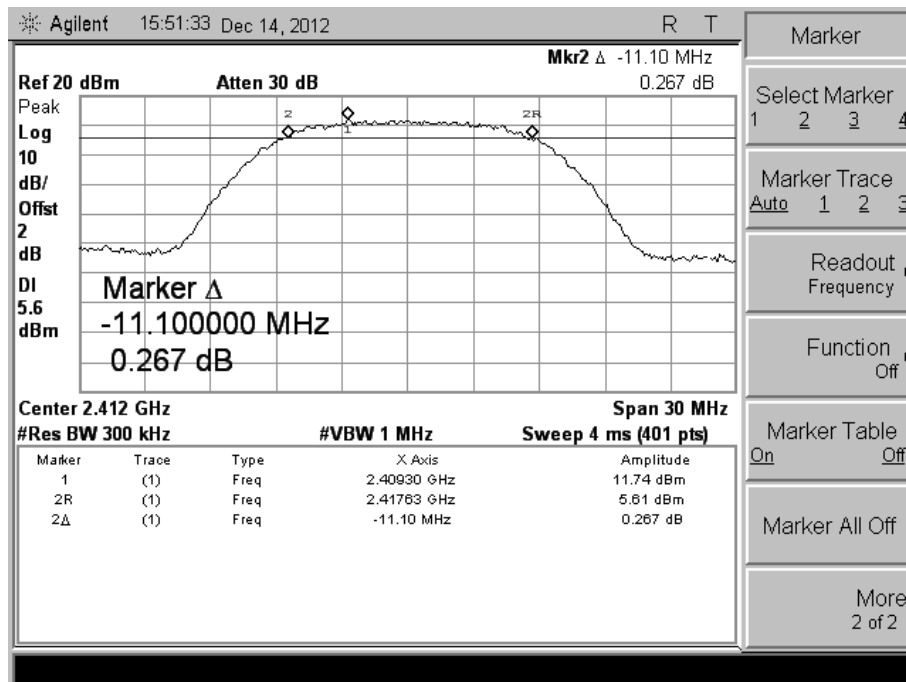
The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.

5.1.5.1 802.11b Test Mode

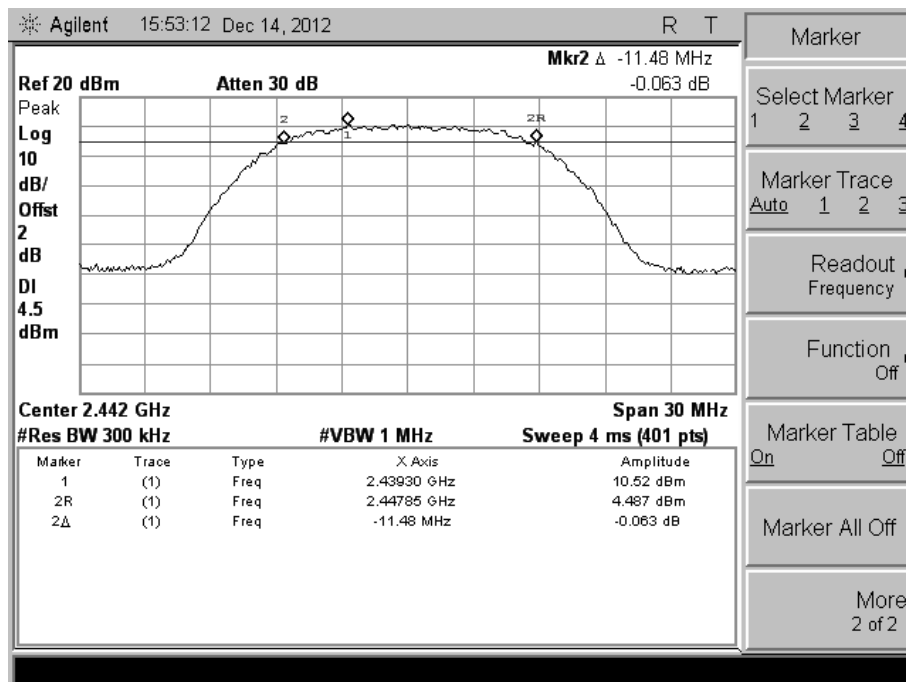
The minimum occupied bandwidth for the fundamental frequency 2412 MHz is 11.10 MHz. This occupied bandwidth complies with the FCC requirement.

A. Test Verdict:

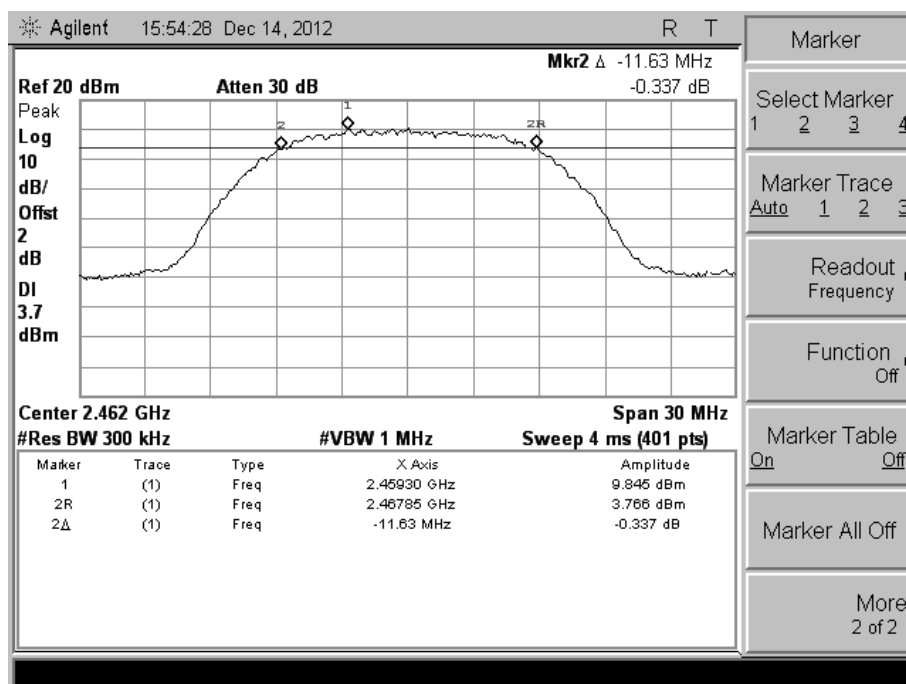
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	11.10	≥ 500	PASS
7	2442	11.48	≥ 500	PASS
11	2462	11.63	≥ 500	PASS

B. Test Plot:

(CH Low)



(CH Mid)



(CH High)

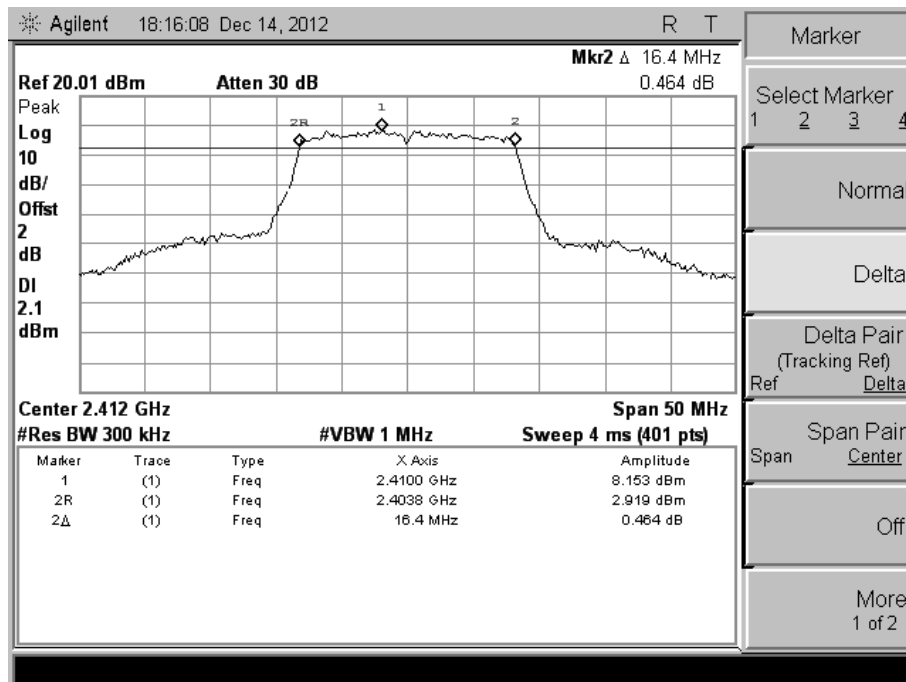
5.1.5.2 802.11g Test Mode

The minimum occupied bandwidth for the fundamental frequency 2412MHz is 16.40MHz. This occupied bandwidth complies with the FCC requirement.

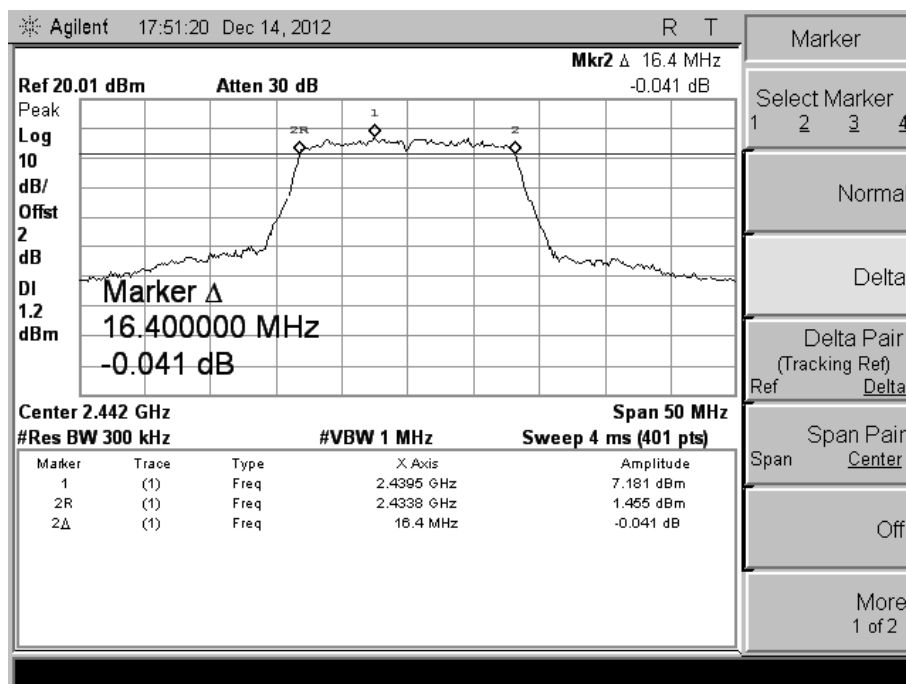
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	16.40	≥ 500	PASS
7	2442	16.40	≥ 500	PASS
11	2462	16.40	≥ 500	PASS

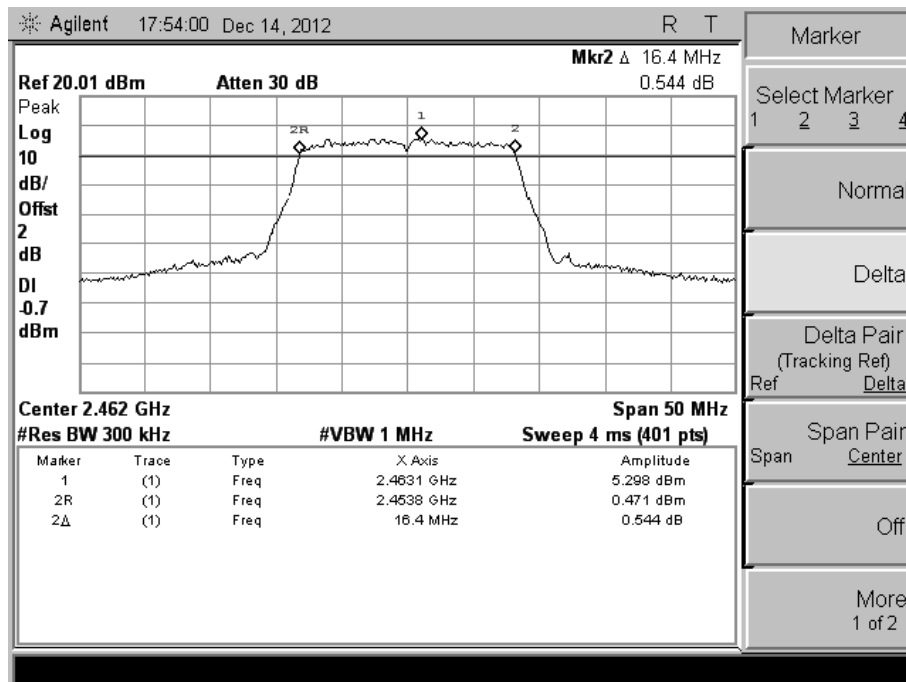
B. Test Plot:



(CH Low)



(CH Mid)



(CH High)

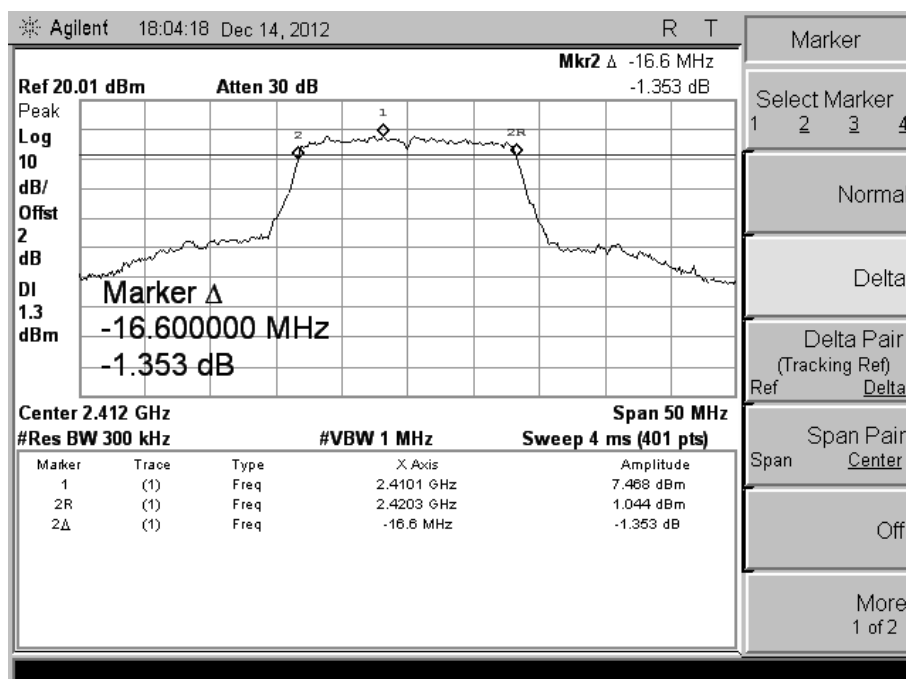
5.1.5.3 802.11n Test Mode(20MHz)

The minimum occupied bandwidth for the fundamental frequency 2462MHz is 16.50MHz. This occupied bandwidth complies with the FCC requirement.

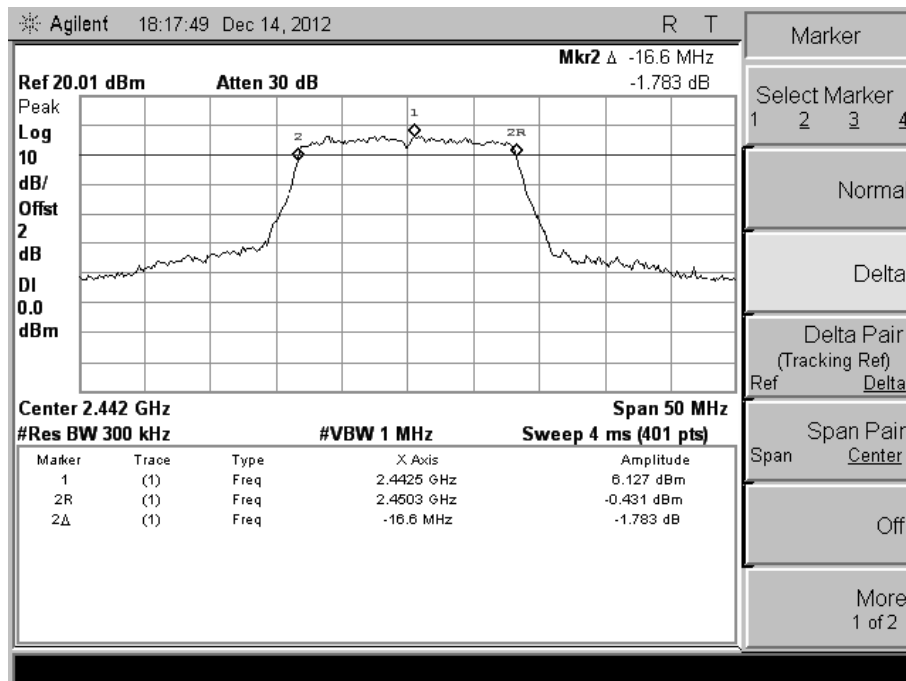
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	16.60	≥ 500	PASS
7	2442	16.60	≥ 500	PASS
11	2462	16.50	≥ 500	PASS

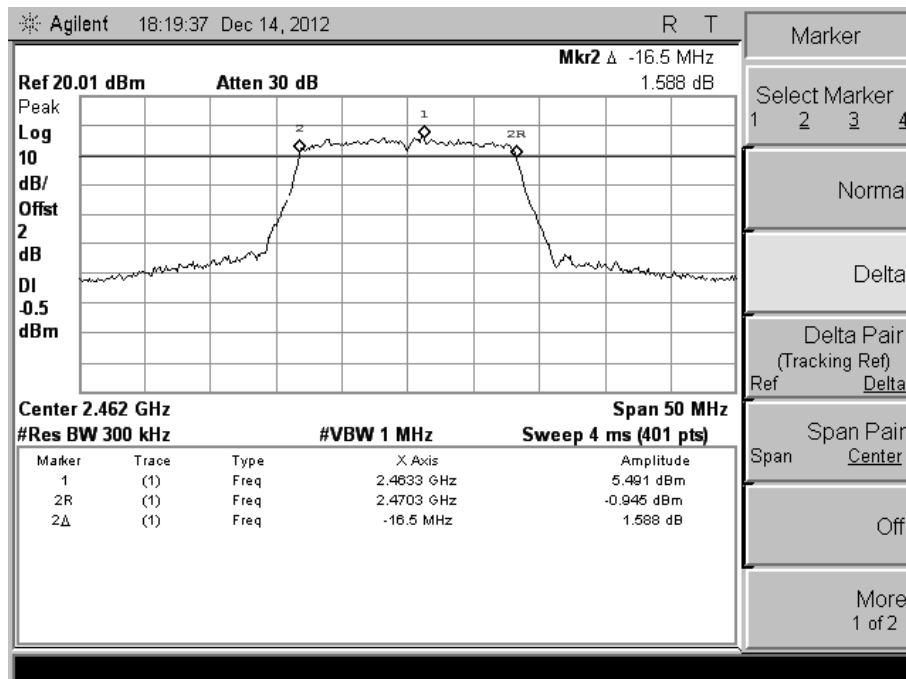
B. Test Plot:



(CH Low)



(CH Mid)



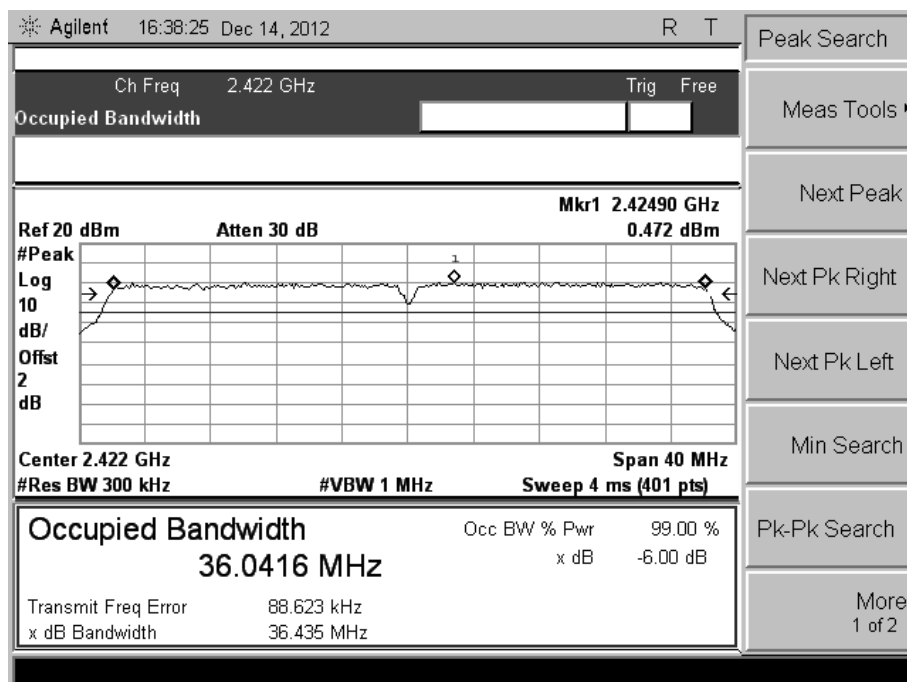
(CH High)

5.1.5.4 802.11n Test Mode(40MHz)

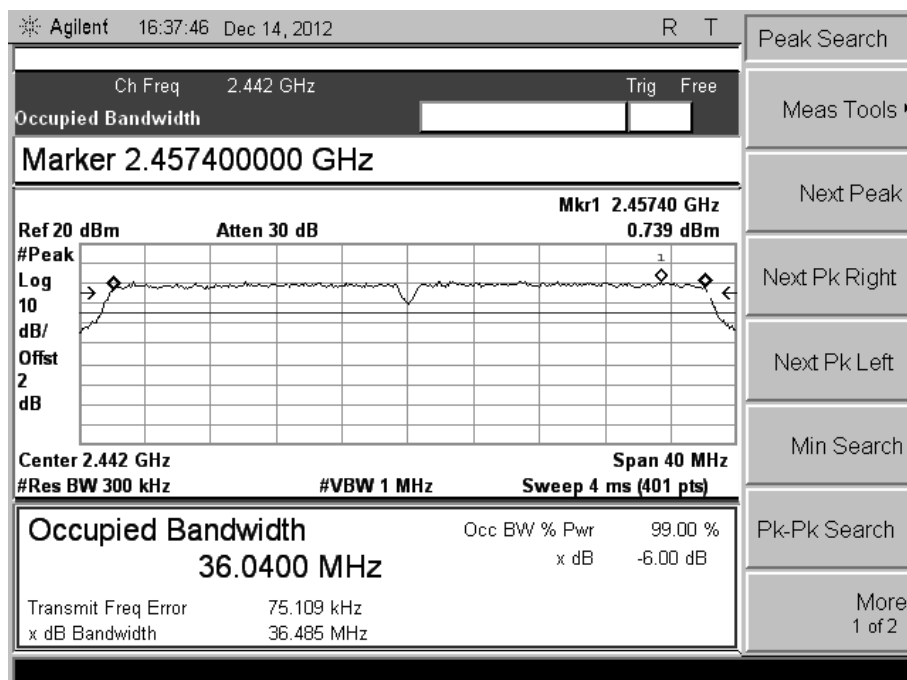
The minimum occupied bandwidth for the fundamental frequency 2422MHz is 36.435MHz. This occupied bandwidth complies with the FCC requirement.

A. Test Verdict:

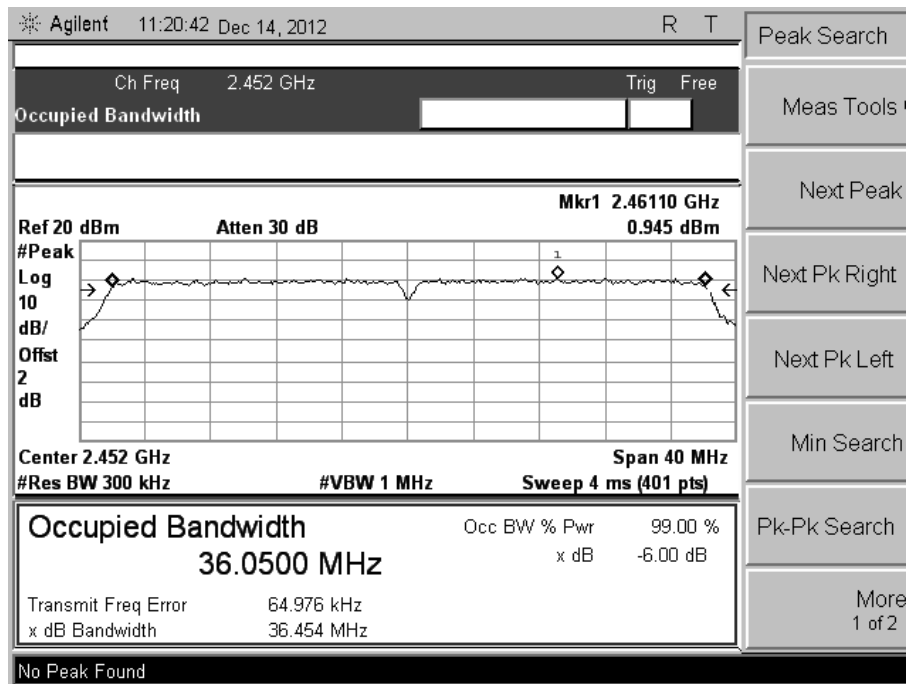
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
3	2422	36.435	≥ 500	PASS
7	2442	36.485	≥ 500	PASS
9	2452	36.454	≥ 500	PASS

B. Test Plot:

(CH Low)



(CH Mid)



(CH High)

5.2 Peak Output Power

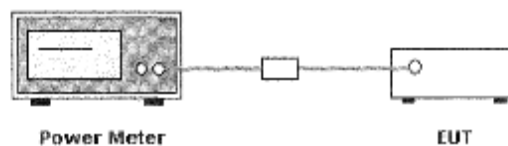
5.2.1 Definition

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.

5.2.2 Limit

FCC Part15(15.247)				
Section	Test Item	Limit	Frequency Range(MHz)	Result
15.247(b)(1)	Peak Output Power	30dBm	2400-2483.5	PASS

5.2.3 Test Configuration



5.2.4 Test Procedure

The EUT which is powered by AC adapter, is coupled to the Power Meter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

5.2.5 Test Result

The EUT operates at maximum output power mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

5.2.5.1 802.11b Test Mode

The maximum output power for the fundamental frequency 2442MHz is 11.89dBm. This power complies with the FCC requirement.

A. Test Verdict:

Channel	Frequency (MHz)	AVG Output Power (dBm)	Measurement Value	Antenna Gain	Total Result	Limit		Verdict
			dBm			dBm	W	
1	2412	8.10	10.80	-3.0	7.87	30	1	PASS
7	2442	9.50	11.89	-3.0	8.56			PASS
11	2462	9.01	11.22	-3.0	7.88			PASS

5.2.5.2 802.11g Test Mode

The maximum output power for the fundamental frequency 2442 MHz is 11.56dBm. This power complies with the FCC requirement.

A. Test Verdict:

Channel	Frequency (MHz)	AVG Output Power (dBm)	Measurement Value	Antenna Gain	Total Result	Limit		Verdict
			dBm			dBm	W	
1	2412	8.53	10.87	-3.0	7.87	30	1	PASS
7	2442	9.21	11.56	-3.0	8.56			PASS
11	2462	8.13	10.88	-3.0	7.88			PASS

5.2.5.3 802.11n Test Mode (20MHz)

The maximum output power for the fundamental frequency 2442 MHz is 10.08dBm. This power complies with the FCC requirement.

A. Test Verdict:

Channel	Frequency (MHz)	AVG Output Power (dBm)	Measurement Value	Antenna Gain	Total Result	Limit		Verdict
			dBm	dB	dBm	dBm	W	
1	2412	6.35	8.52	-3.0	5.52	30	1	PASS
7	2442	8.12	10.08	-3.0	7.08			PASS
11	2462	6.57	8.75	-3.0	5.75			PASS

5.2.5.4 802.11n Test Mode (40MHz)

The maximum output power for the fundamental frequency 2422 MHz is 6.822dBm. This power complies with the FCC requirement.

A. Test Verdict:

Channel	Frequency (MHz)	AVG Output Power (dBm)	Measurement Value	Antenna Gain	Total Result	Limit		Verdict
			dBm	dB	dBm	dBm	W	
1	2422	5.23	6.82	-3.0	3.82	30	1	PASS
7	2442	5.01	6.62	-3.0	3.62			PASS
11	2462	5.20	6.78	-3.0	3.78			PASS

5.3 Conducted Spurious Emission

5.3.1 Definition

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.

5.3.2 Test Description

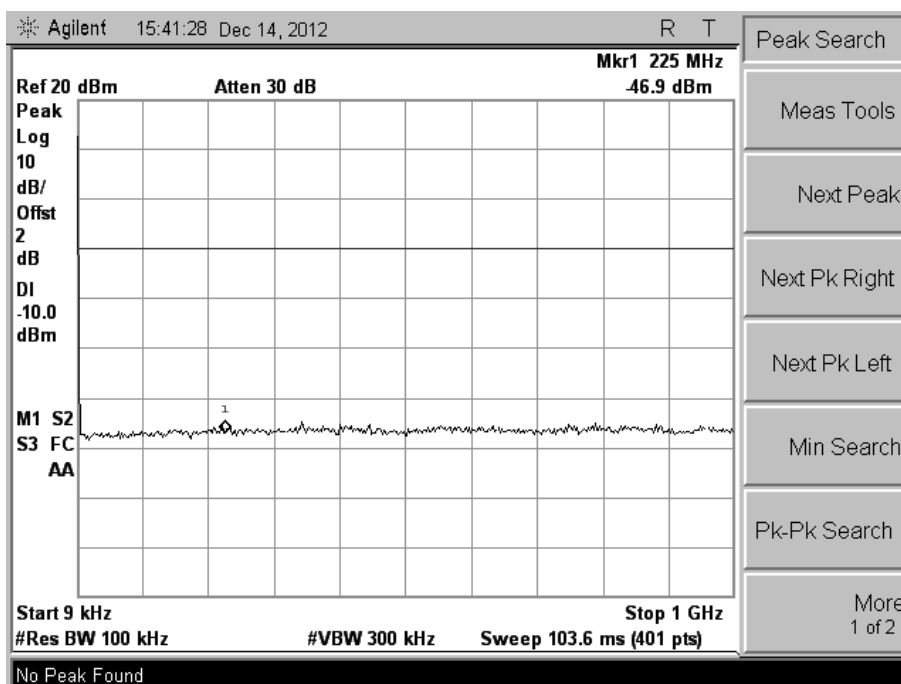
See section 5.1.2 of this report.

5.3.3 Test Result

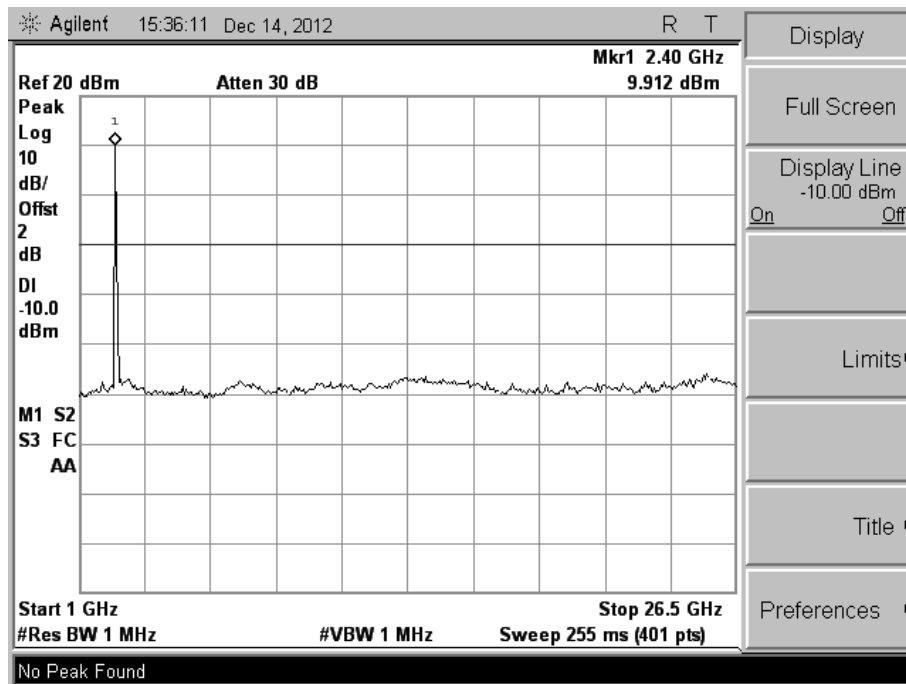
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

5.3.3.1 802.11b Test Mode

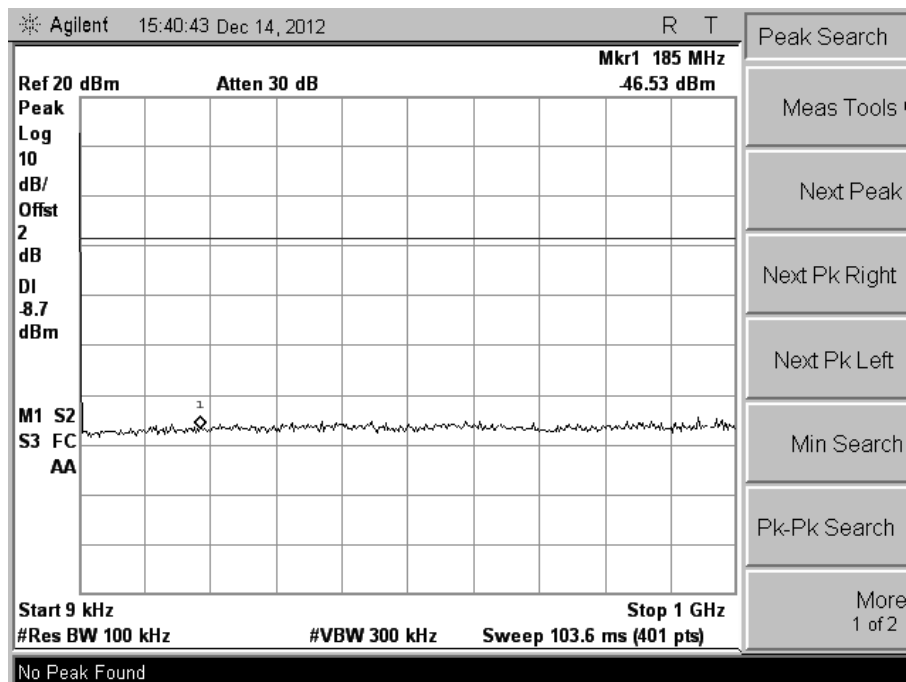
Test Plot:



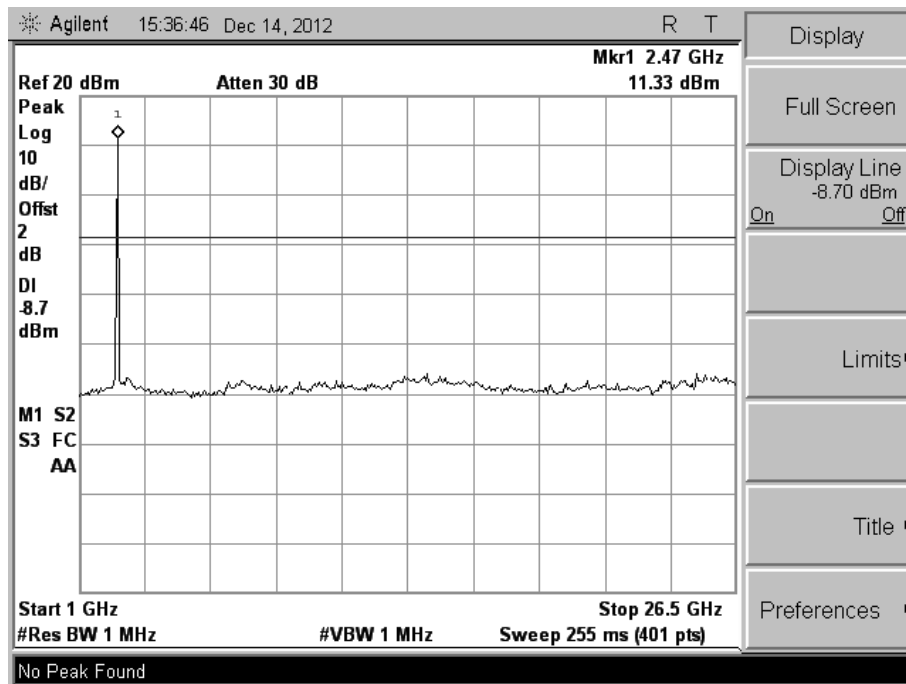
(CH Low , 9kHz to 1GHz)



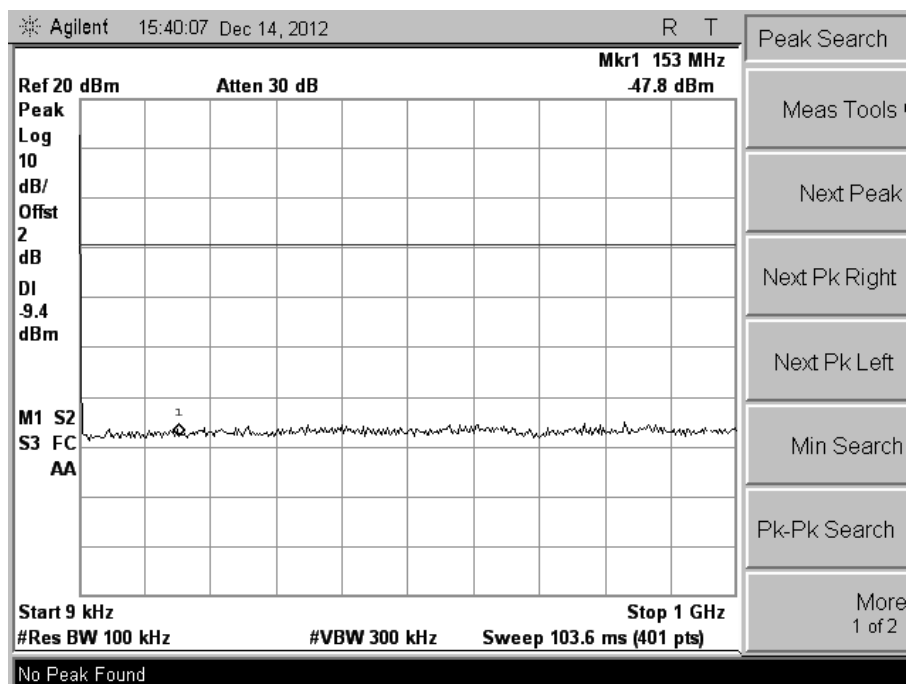
(CH Low, 1GHz to 26.5GHz)



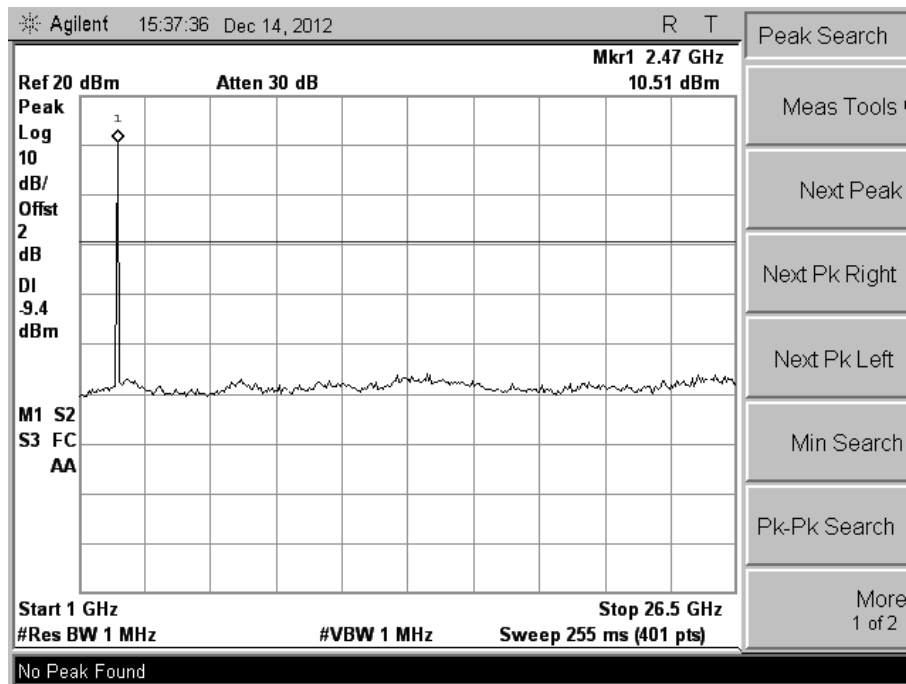
(CH Mid, 9kHz to 1GHz)



(CH Mid, 1GHz to 26.5GHz)



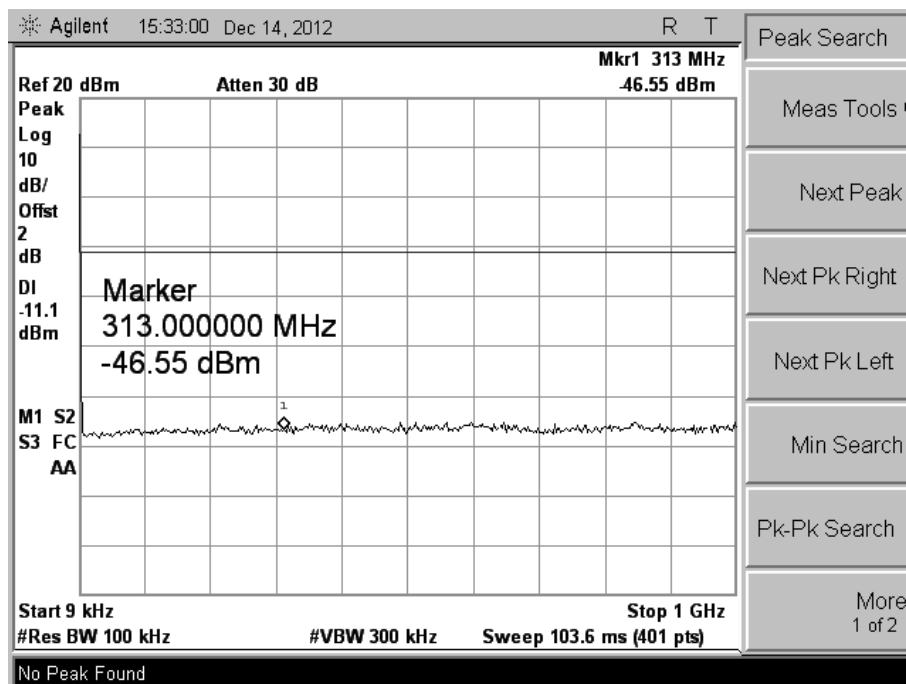
(CH High, 9kHz to 1GHz)



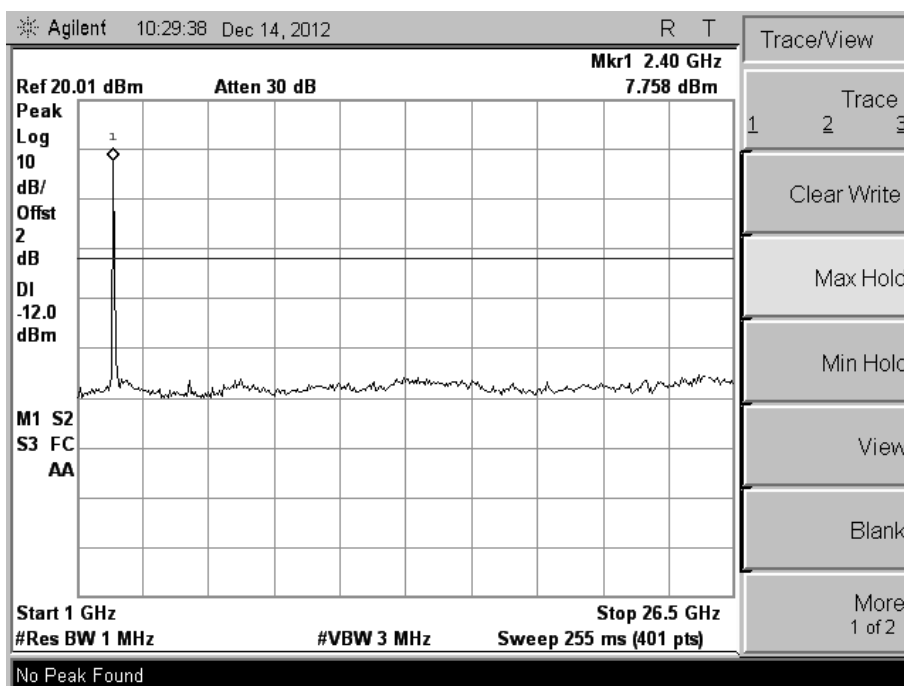
(CH High, 1GHz to 26.5GHz)

Note:

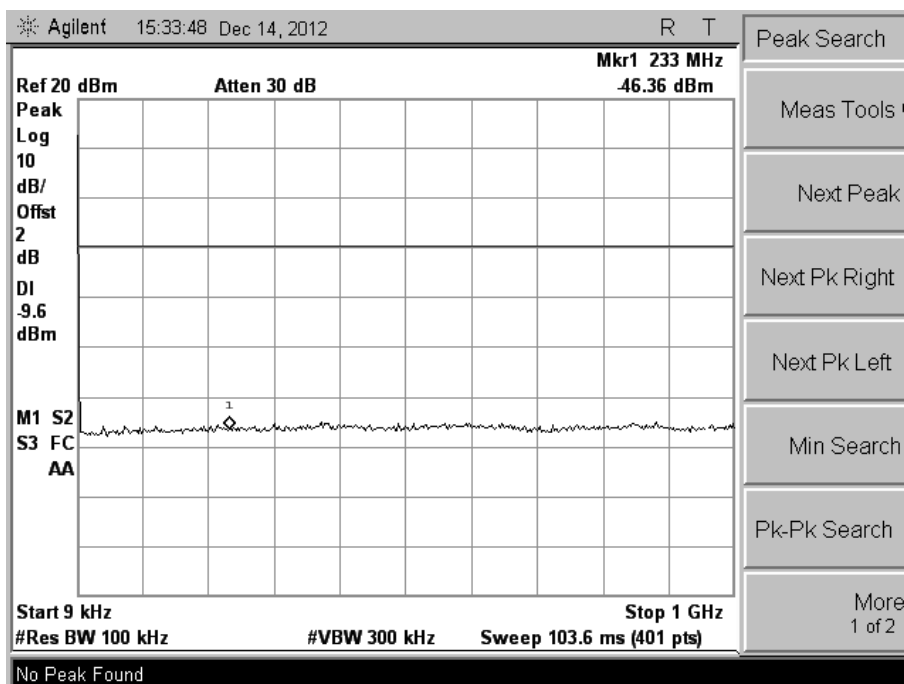
1. The power of the Module transmitting frequency should be ignored.

5.3.2. 802.11g Test Mode**Test Plot:**

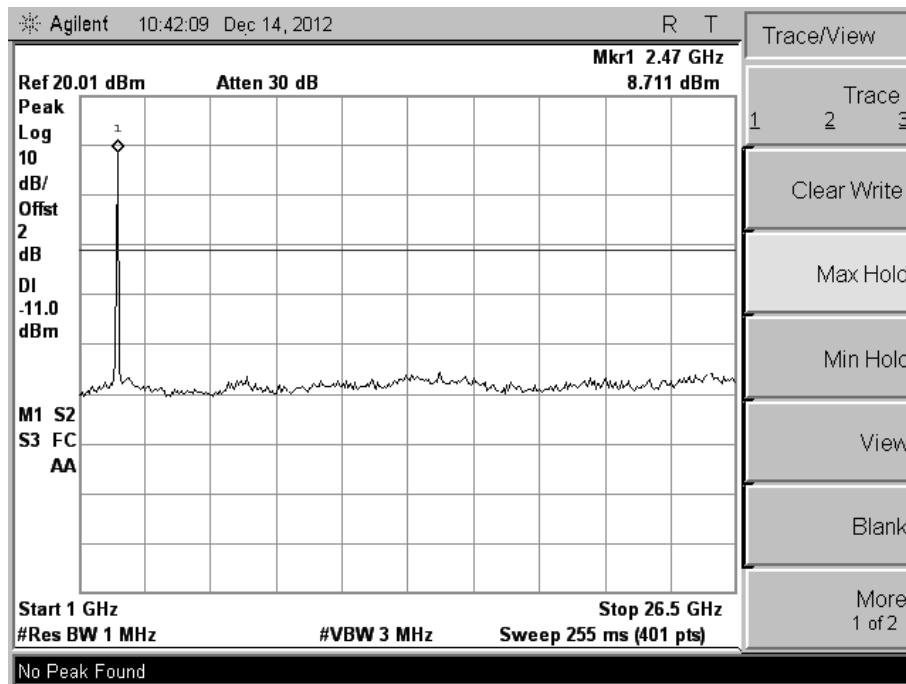
(CH Low, 9kHz to 1GHz)



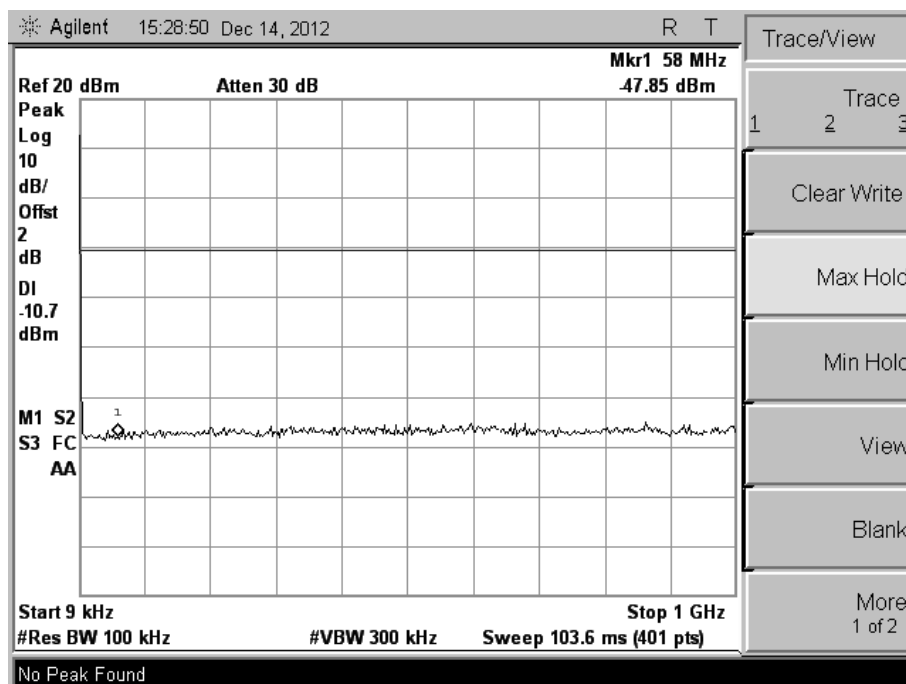
(CH Low, 1GHz to 26.5GHz)



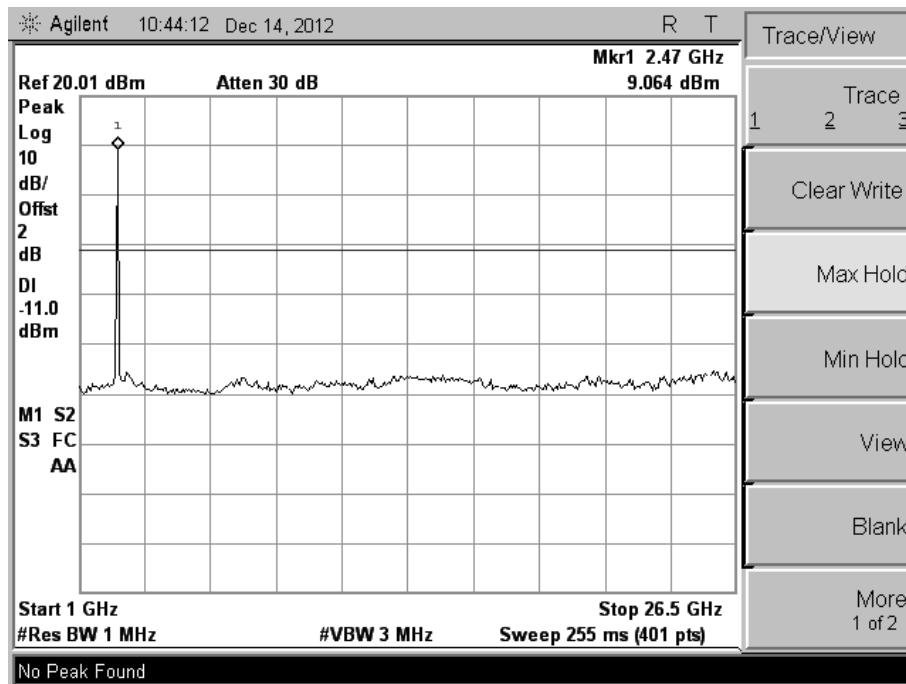
(CH Mid, 9kHz to 1GHz)



(CH Mid, 1GHz to 26.5GHz)



(CH High, 9kHz to 1GHz)



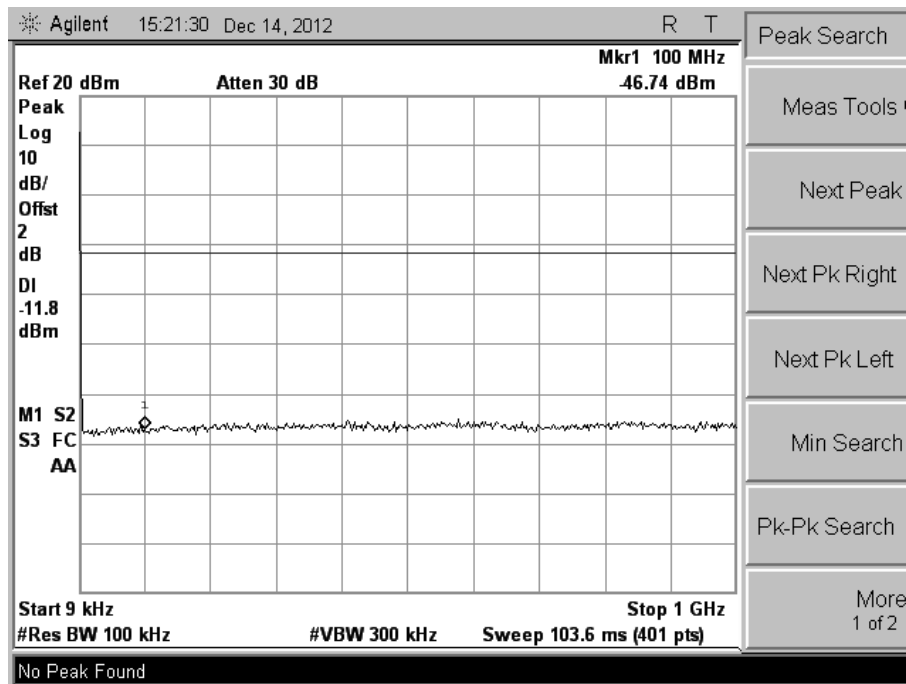
(CH High, 1GHz to 26.5GHz)

Note:

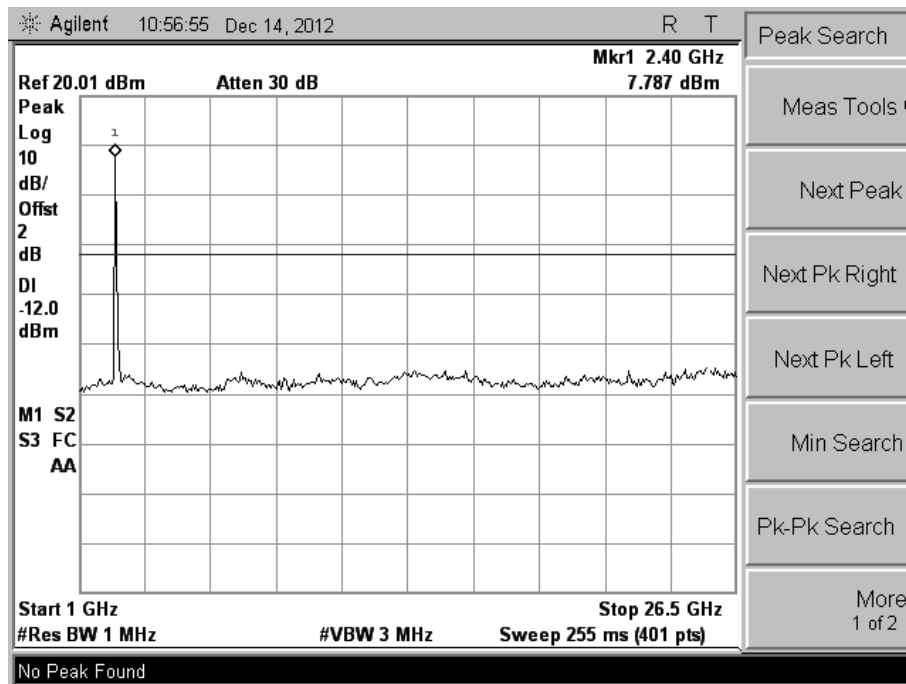
1. The power of the Module transmitting frequency should be ignored.

5.3.3. 802.11n Test Mode (20MHz)

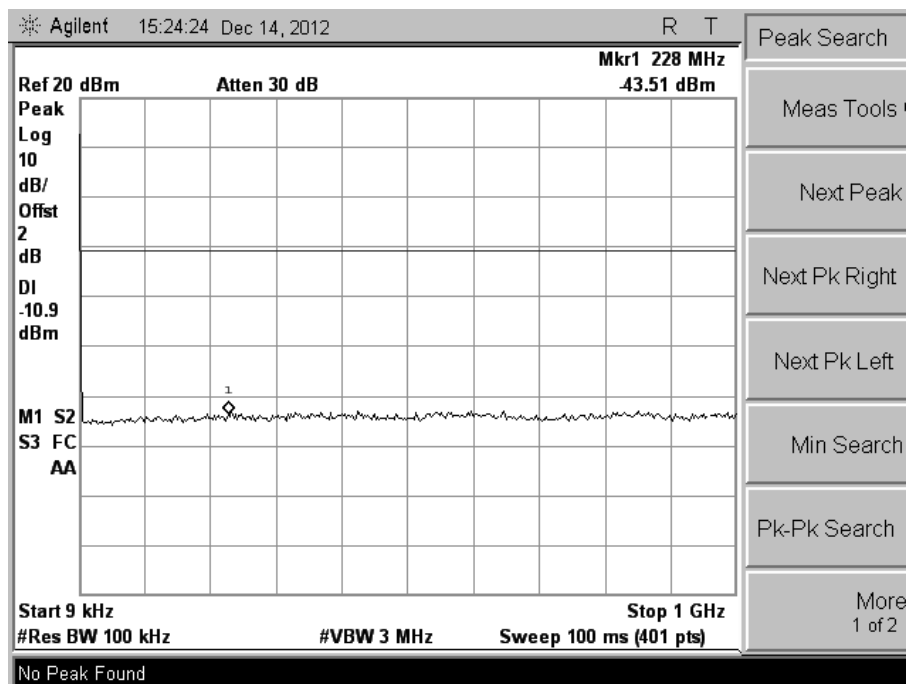
Test Plot:



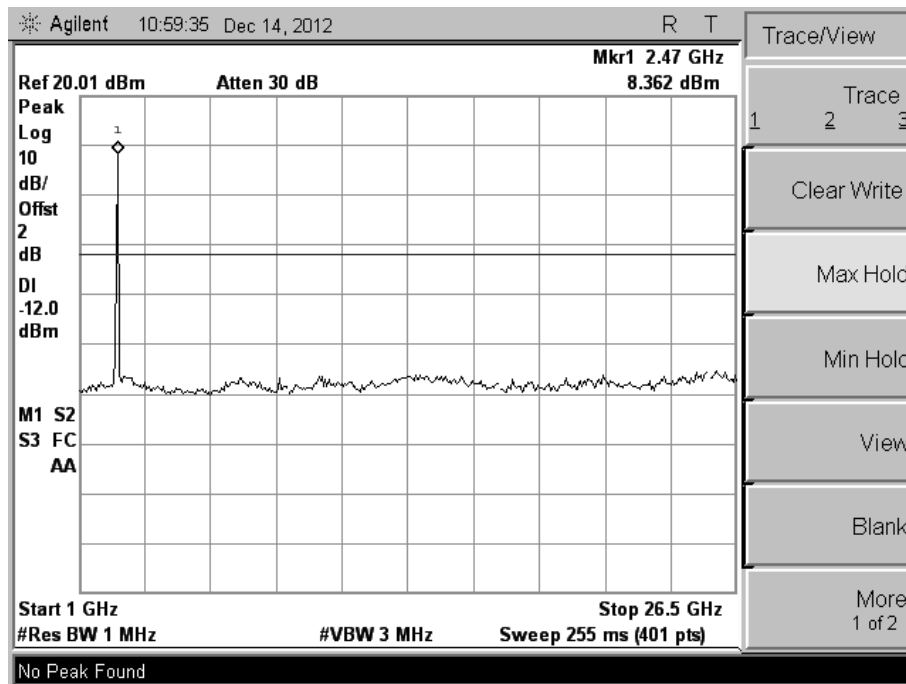
(CH Low, 9kHz to 1GHz)



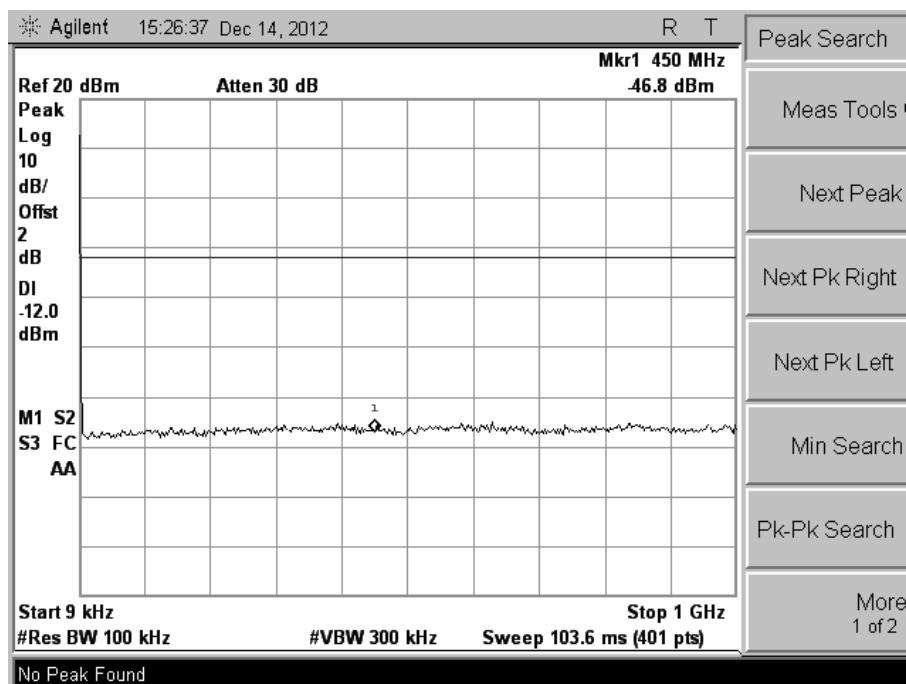
(CH Low, 1GHz to 26.5GHz)



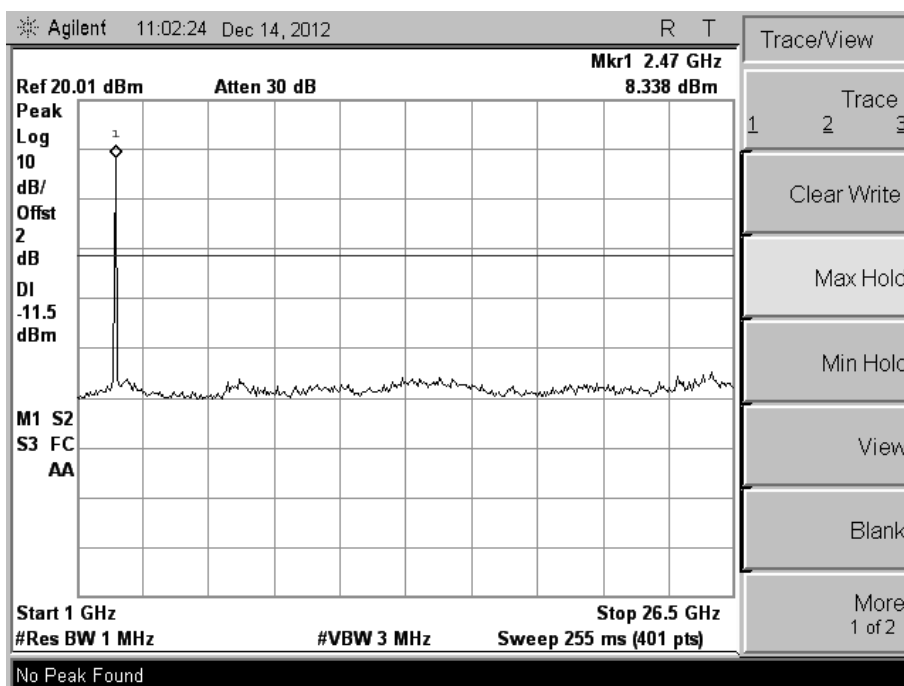
(CH Mid, 9kHz to 1GHz)



(CH Mid, 1GHz to 26.5GHz)



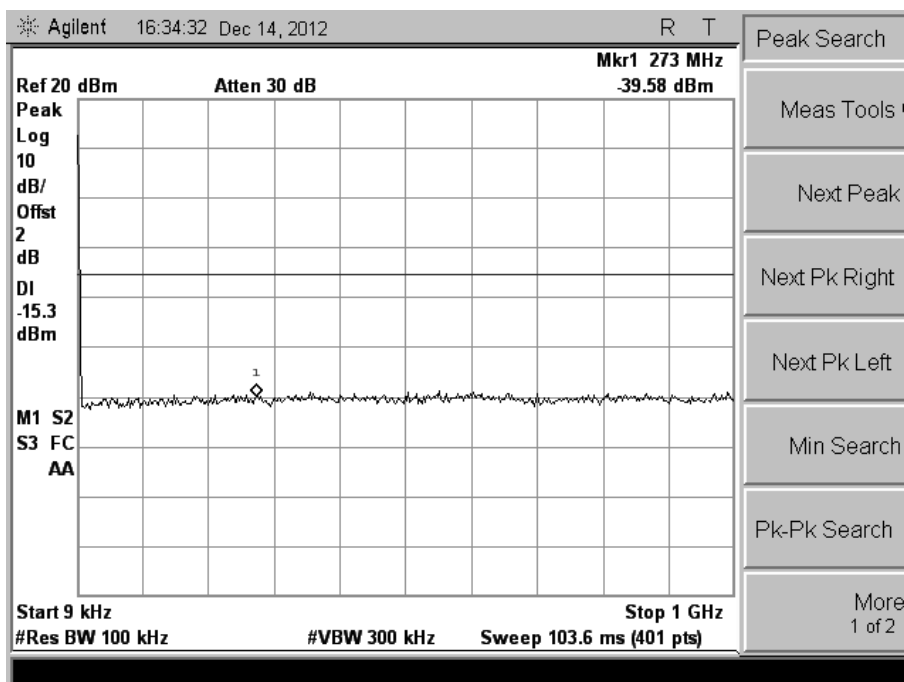
(CH High, 9kHz to 1GHz)



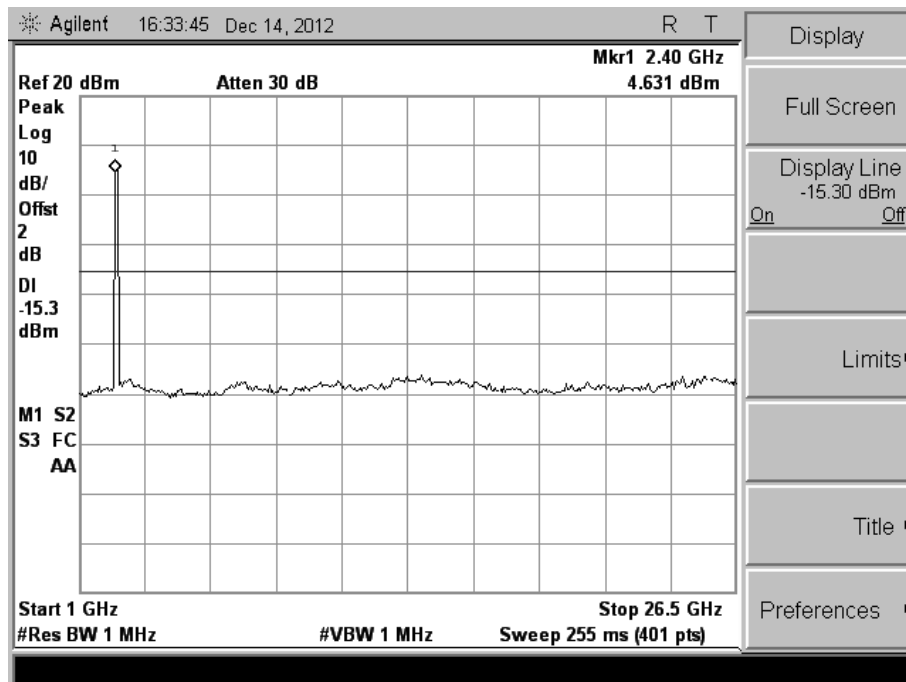
(CH High, 1GHz to 26.5GHz)

5.3.3. 802.11n Test Mode (40MHz)

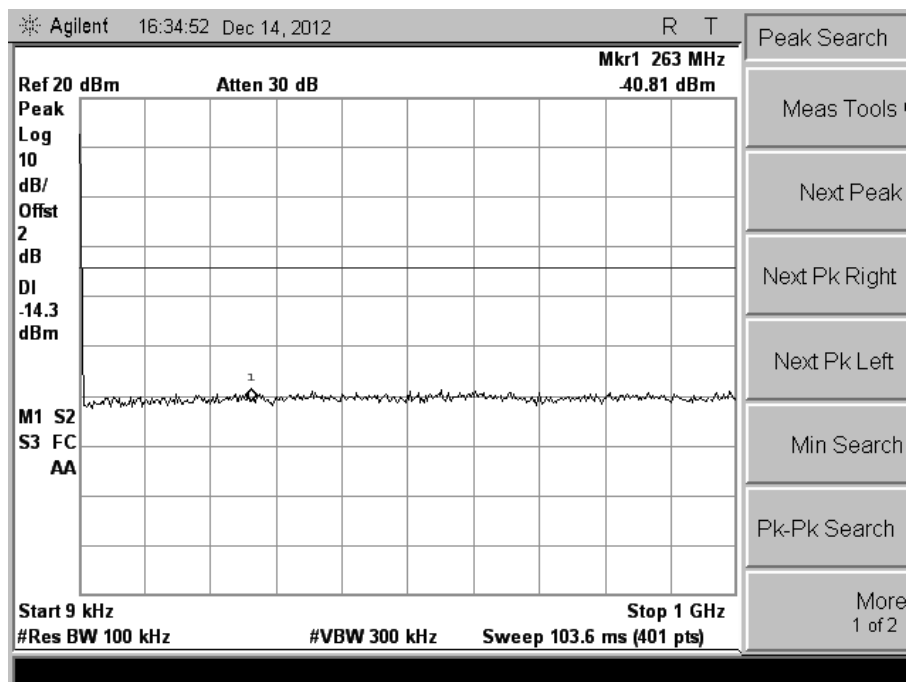
Test Plot:



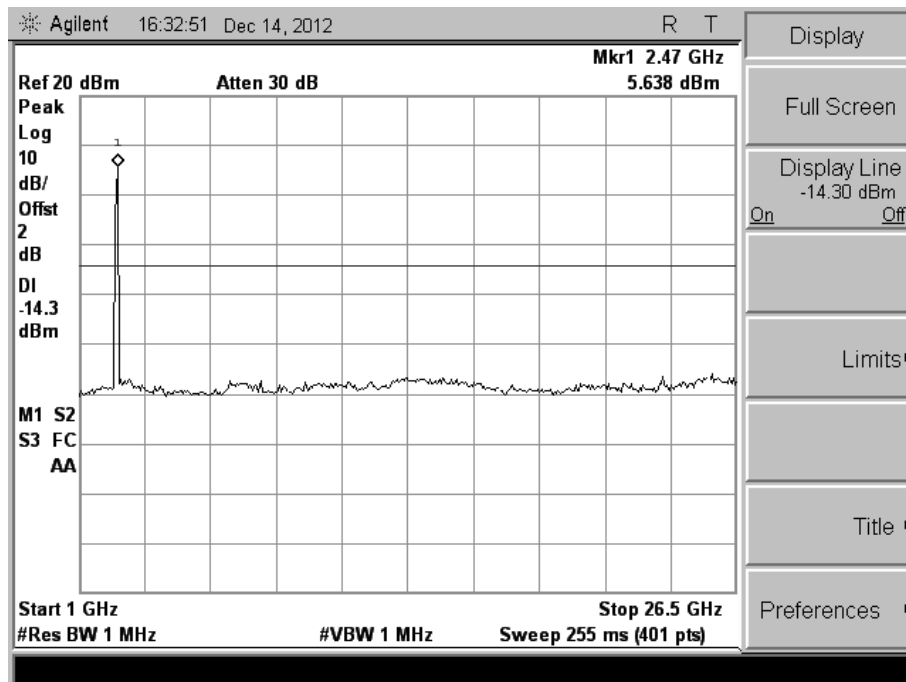
(CH Low, 9kHz to 1GHz)



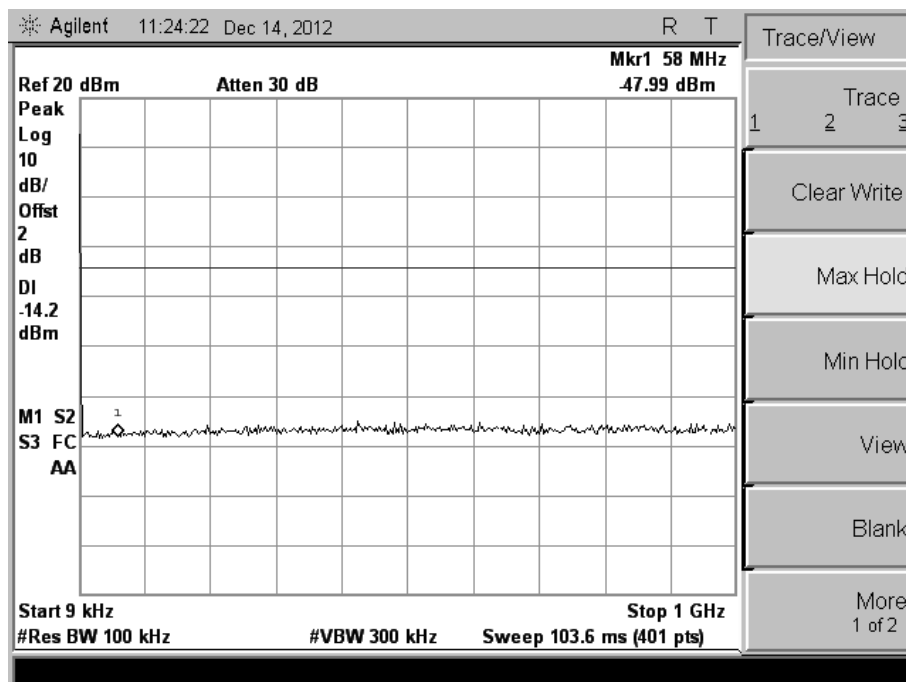
(CH Low, 1GHz to 26.5GHz)



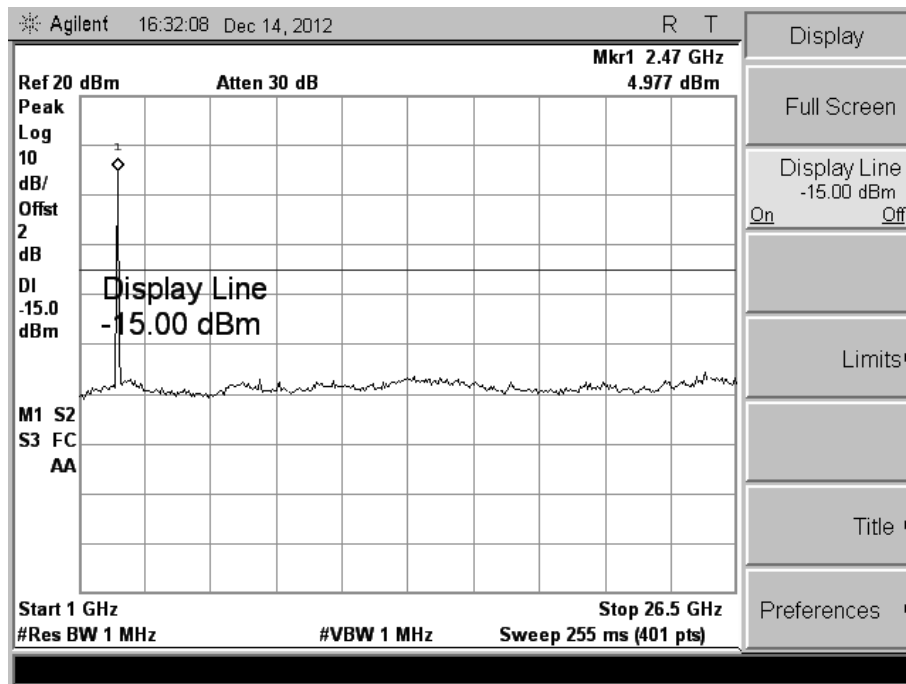
(CH Mid, 9kHz to 1GHz)



(CH Mid, 1GHz to 26.5GHz)



(CH High, 9kHz to 1GHz)



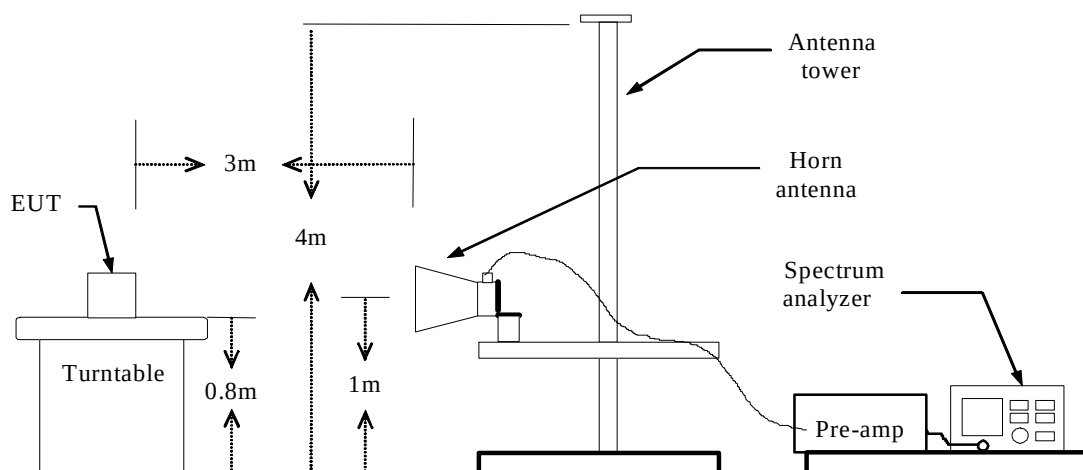
(CH High, 1GHz to 26.5GHz)

5.4 Band Edge

5.4.1 Definition

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.

5.4.2 Test Configuration



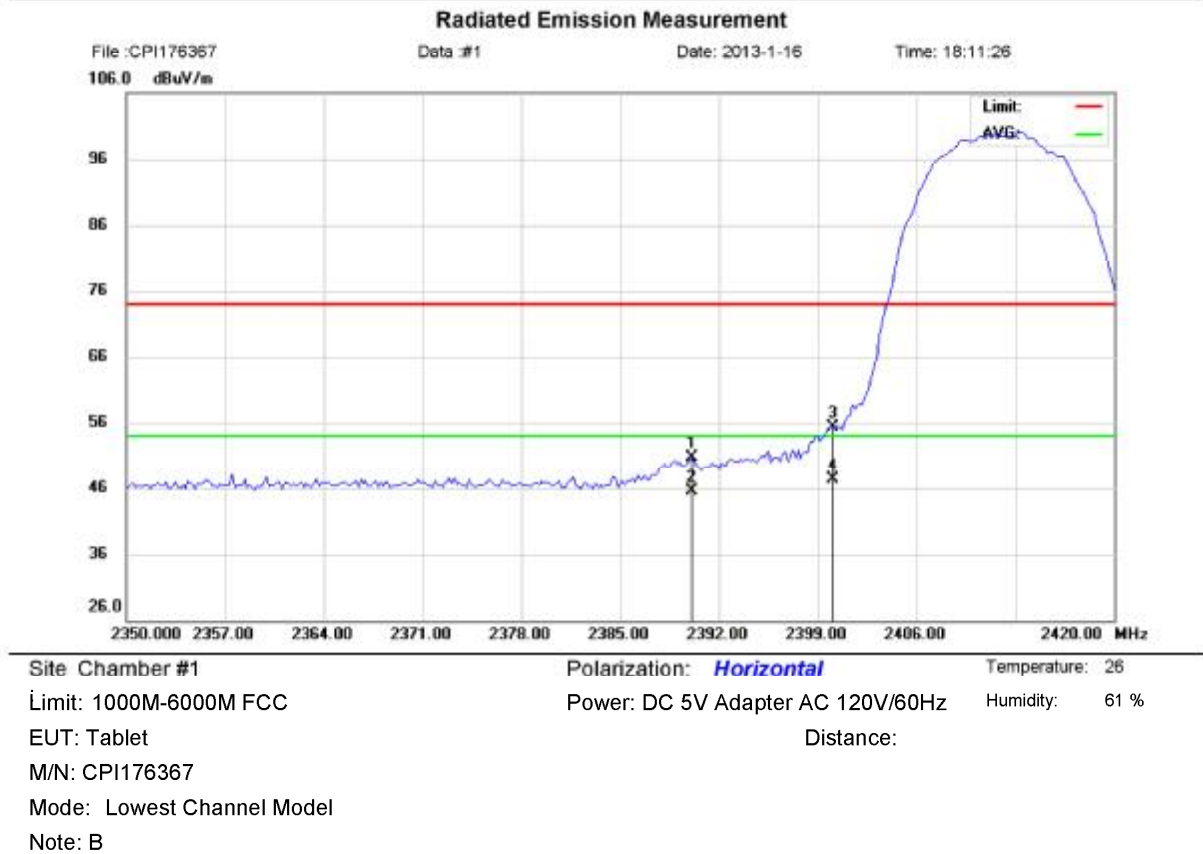
5.4.3 Test Result

The EUT operates at continuous transmit test mode. The lowest and highest channels are tested to verify the band edge emissions.

5.4.3.1 802.11b Test Mode



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2390.000	44.31	6.37	50.68	74.00	-23.32	peak		
2		2390.000	39.20	6.37	45.57	54.00	-8.43	AVG		
3		2400.000	48.91	6.40	55.31	74.00	-18.69	peak		
4	*	2400.000	41.00	6.40	47.40	54.00	-6.60	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

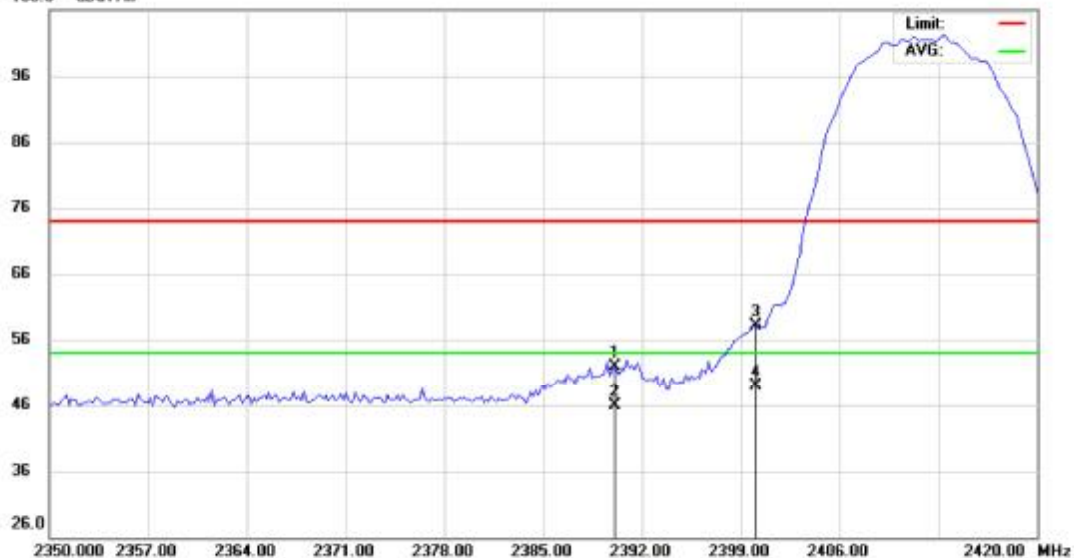
File: CPI176367

Data: #2

Date: 2013-1-16

Time: 18:18:09

106.0 dBuV/m



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Lowest Channel Model

Note: B

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2390.000	44.48	7.37	51.85	74.00	-22.15	peak		
2		2390.000	38.50	7.37	45.87	54.00	-8.13	AVG		
3		2400.000	50.74	7.40	58.14	74.00	-15.86	peak		
4	*	2400.000	41.60	7.40	49.00	54.00	-5.00	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File: CPI176367

Data: #11

Date: 2013-1-16

Time: 19:35:01

106.0 dBuV/m



Site Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Highest Channel Model

Note: B

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	48.62	6.88	55.50	74.00	-18.50	peak		
2	*	2483.500	41.80	6.88	48.68	54.00	-5.32	AVG		
3		2500.000	43.51	6.97	50.48	74.00	-23.52	peak		
4		2500.000	38.80	6.97	45.77	54.00	-8.23	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File: CPI176367

Data: #12

Date: 2013-1-16

Time: 19:44:36

106.0 dBuV/m



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Highest Channel Model

Note: B

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	47.74	9.13	56.87	74.00	-17.13	peak		
2	*	2483.500	40.20	9.13	49.33	54.00	-4.67	AVG		
3		2500.000	42.37	9.47	51.84	74.00	-22.16	peak		
4		2500.000	36.50	9.47	45.97	54.00	-8.03	AVG		

*:Maximum data x:Over limit !:over margin

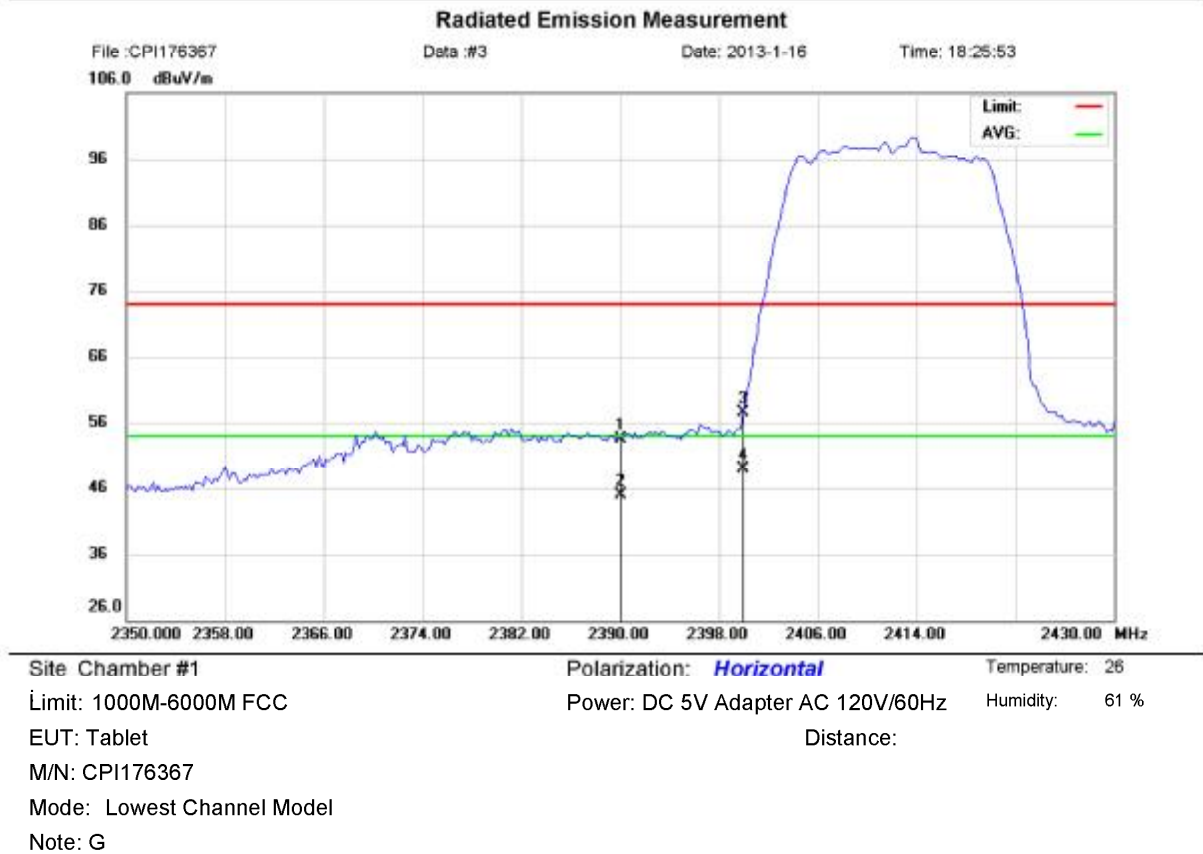
Engineer Signature:

Allen

5.4.3.2 802.11g Test Mode



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2390.000	47.12	6.37	53.49	74.00	-20.51	peak			
2		2390.000	38.50	6.37	44.87	54.00	-9.13	AVG			
3		2400.000	51.09	6.40	57.49	74.00	-16.51	peak			
4	*	2400.000	42.50	6.40	48.90	54.00	-5.10	AVG			

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

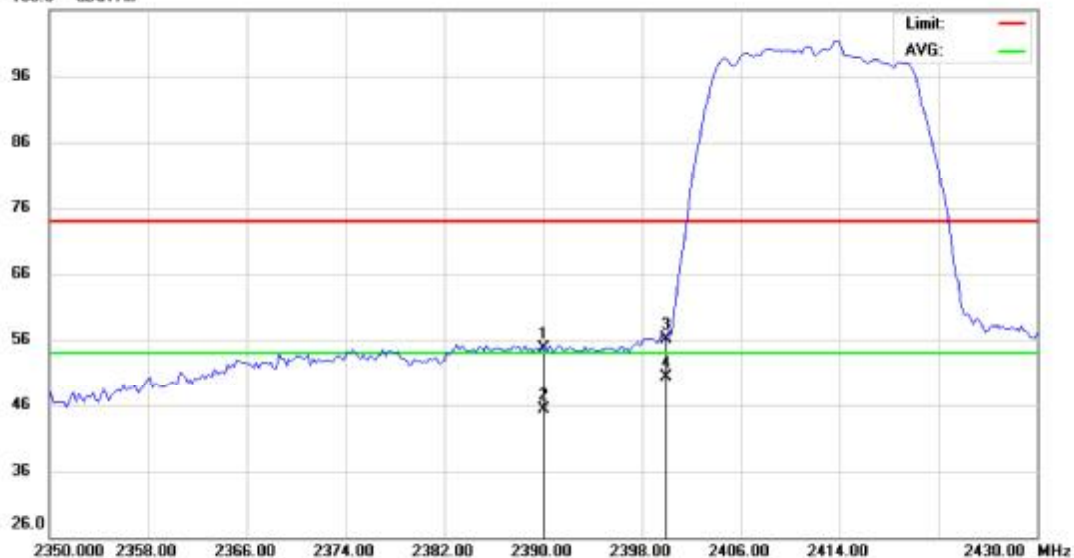
File: CPI176367

Data: #4

Date: 2013-1-16

Time: 18:31:01

106.0 dBuV/m



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Lowest Channel Model

Note: G

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2390.000	47.43	7.37	54.80	74.00	-19.20	peak			
2		2390.000	38.00	7.37	45.37	54.00	-8.63	AVG			
3		2400.000	48.74	7.40	56.14	74.00	-17.86	peak			
4	*	2400.000	43.00	7.40	50.40	54.00	-3.60	AVG			

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File : CPI176367

Data : #9

Date: 2013-1-16

Time: 19:19:03

106.0 dBuV/m



Site Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Highest Channel Model

Note: G

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2483.500	52.35	6.88	59.23	74.00	-14.77	peak		
2	*	2483.500	42.80	6.88	49.68	54.00	-4.32	AVG		
3		2500.000	45.44	6.97	52.41	74.00	-21.59	peak		
4		2500.000	39.20	6.97	46.17	54.00	-7.83	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File: CPI176367

Data: #10

Date: 2013-1-16

Time: 19:26:32

106.0 dBuV/m



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Highest Channel Model

Note: G

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	50.24	6.88	57.12	74.00	-16.88	peak		
2	*	2483.500	42.60	6.88	49.48	54.00	-4.52	AVG		
3		2500.000	47.22	6.97	54.19	74.00	-19.81	peak		
4		2500.000	38.50	6.97	45.47	54.00	-8.53	AVG		

*:Maximum data x:Over limit !:over margin

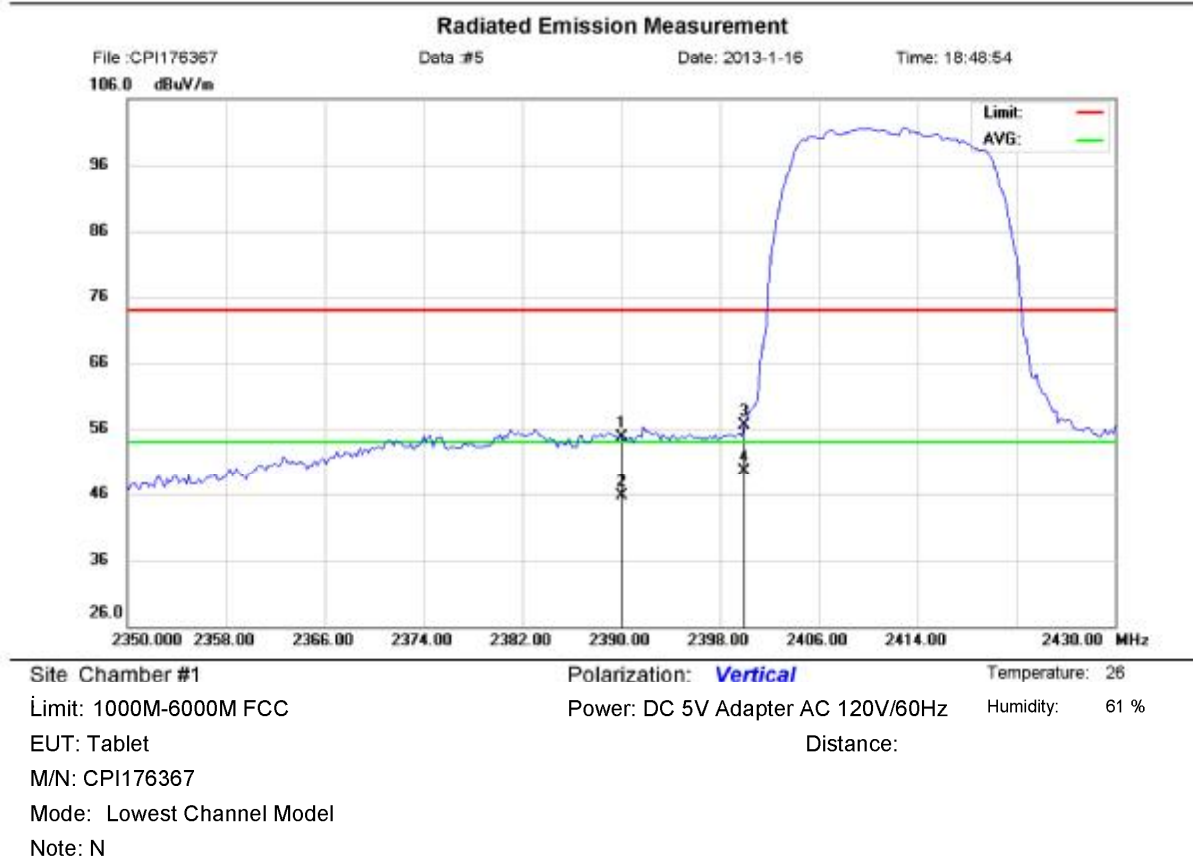
Engineer Signature:

Allen

5.4.3.3 802.11n Test Mode (20MHz)



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2390.000	47.25	7.37	54.62	74.00	-19.38	peak		
2		2390.000	38.40	7.37	45.77	54.00	-8.23	AVG		
3		2400.000	49.18	7.40	56.58	74.00	-17.42	peak		
4	*	2400.000	42.20	7.40	49.60	54.00	-4.40	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

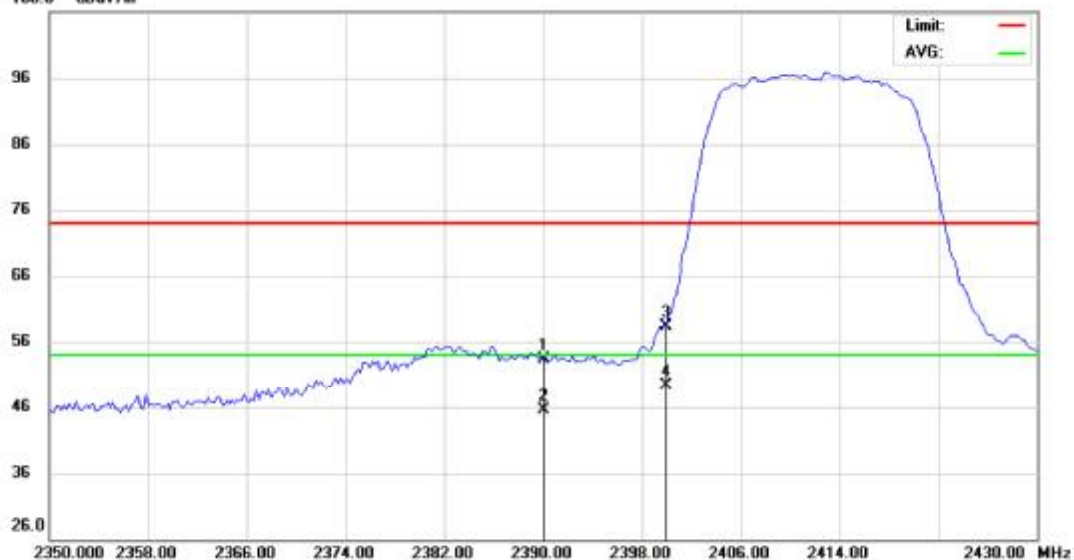
File: CPI176367

Data: #6

Date: 2013-1-16

Time: 18:55:00

106.0 dBuV/m



Site Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Lowest Channel Model

Note: N

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2390.000	46.84	6.37	53.21	74.00	-20.79	peak		
2		2390.000	39.20	6.37	45.57	54.00	-8.43	AVG		
3		2400.000	51.88	6.40	58.28	74.00	-15.72	peak		
4	*	2400.000	42.80	6.40	49.20	54.00	-4.80	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File: CPI176367

Data: #7

Date: 2013-1-16

Time: 19:03:00

106.0 dBuV/m



Site Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Highest Channel Model

Note: N

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	49.48	6.88	56.36	74.00	-17.64	peak		
2	*	2483.500	43.60	6.88	50.48	54.00	-3.52	AVG		
3		2500.000	45.55	6.97	52.52	74.00	-21.48	peak		
4		2500.000	39.20	6.97	46.17	54.00	-7.83	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File: CPI176367

Data: #8

Date: 2013-1-16

Time: 19:13:25

106.0 dBuV/m



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Highest Channel Model

Note: N

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	49.03	6.88	55.91	74.00	-18.09	peak		
2	*	2483.500	43.00	6.88	49.88	54.00	-4.12	AVG		
3		2500.000	47.44	6.97	54.41	74.00	-19.59	peak		
4		2500.000	39.50	6.97	46.47	54.00	-7.53	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen

5.4.3.4 802.11n Test Mode (40MHz)



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File: CPI176367

Data: #15

Date: 2013-1-16

Time: 19:50:36

106.0 dBuV/m



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Lowest Channel Model

Note: N40

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2390.000	44.67	7.37	52.04	74.00	-21.96			peak
2		2390.000	38.00	7.37	45.37	54.00	-8.63			AVG
3		2400.000	51.36	7.40	58.76	74.00	-15.24			peak
4	*	2400.000	42.50	7.40	49.90	54.00	-4.10			AVG

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

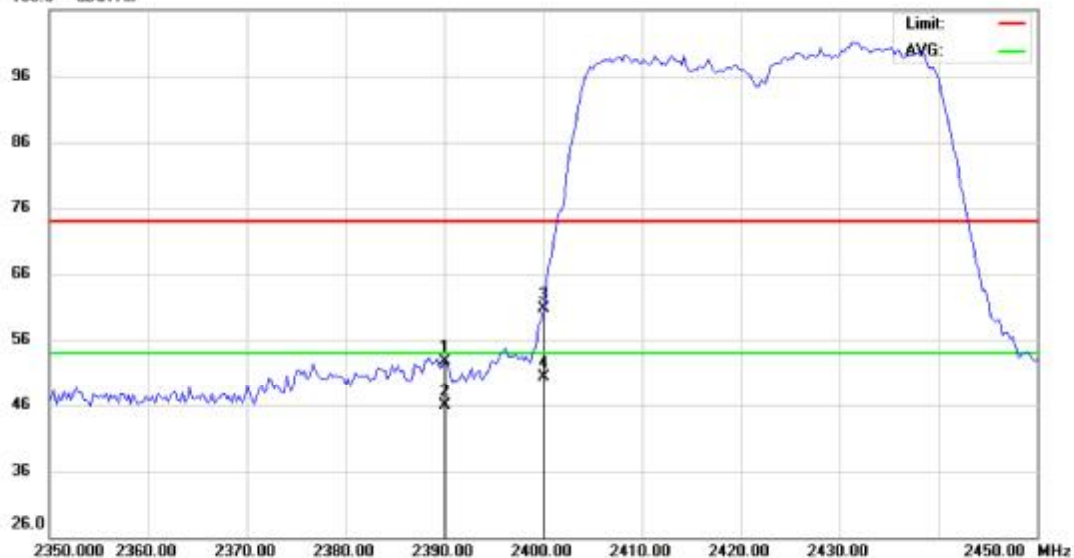
File: CPI176367

Data: #16

Date: 2013-1-16

Time: 19:56:12

106.0 dBuV/m



Site Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Lowest Channel Model

Note: N40

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2390.000	45.43	7.37	52.80	74.00	-21.20	peak		
2		2390.000	38.50	7.37	45.87	54.00	-8.13	AVG		
3		2400.000	53.39	7.40	60.79	74.00	-13.21	peak		
4	*	2400.000	42.80	7.40	50.20	54.00	-3.80	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File: CPI176367

Data: #17

Date: 2013-1-16

Time: 20:06:40

106.0 dBuV/m



Site Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Highest Channel Model

Note: N40

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	50.80	9.13	59.93	74.00	-14.07	peak		
2	*	2483.500	41.50	9.13	50.63	54.00	-3.37	AVG		
3		2500.000	48.25	9.47	57.72	74.00	-16.28	peak		
4		2500.000	37.50	9.47	46.97	54.00	-7.03	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File: CPI176367

Data: #18

Date: 2013-1-16

Time: 20:15:21

106.0 dBuV/m



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: 1000M-6000M FCC

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: Highest Channel Model

Note: N40

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2483.500	51.00	9.13	60.13	74.00	-13.87	peak		
2	*	2483.500	41.20	9.13	50.33	54.00	-3.67	AVG		
3		2500.000	49.38	9.47	58.85	74.00	-15.15	peak		
4		2500.000	38.00	9.47	47.47	54.00	-6.53	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Allen

5.5 Power Spectral Density (PSD)

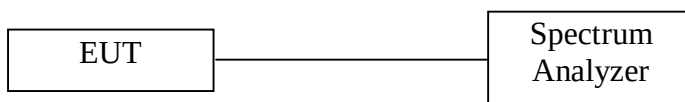
5.5.1 Definition

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.

5.5.2 Limit

FCC Part15(15.247)				
Section	Test Item	Limit	Frequency Range(MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2402-2483.5	PASS

5.5.4 Test Configuration

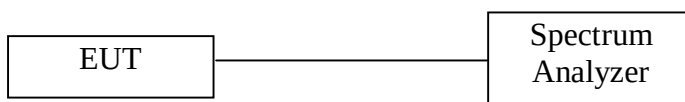


5.5.3 Test Description

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	5-30% greater than the EBW
RB	100kHz
VB	300KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW=100KHz, VBW=300KHz, Sweep time=Auto. Span to 5-30% greater than EBW
- Scale the observed power level to an equivalent value in 3kHz by adjusting(reducing) the measured power by a bandwidth correction factor(BWCF) where $BWCF = 10\log(3\text{kHz}/100\text{kHz}) = -15.2\text{dB}$.
- Use peak detector+BWCF.
- The resulting peak PSD level must be $\leq 8\text{dBm}$.

5.5.4 Test Configuration



5.5.3 Operation Condition

The EUT tested system was configured as the statements of 2.1 unless otherwise a special operating condition is specified in the follows during the testing.

5.5.6 Test Result

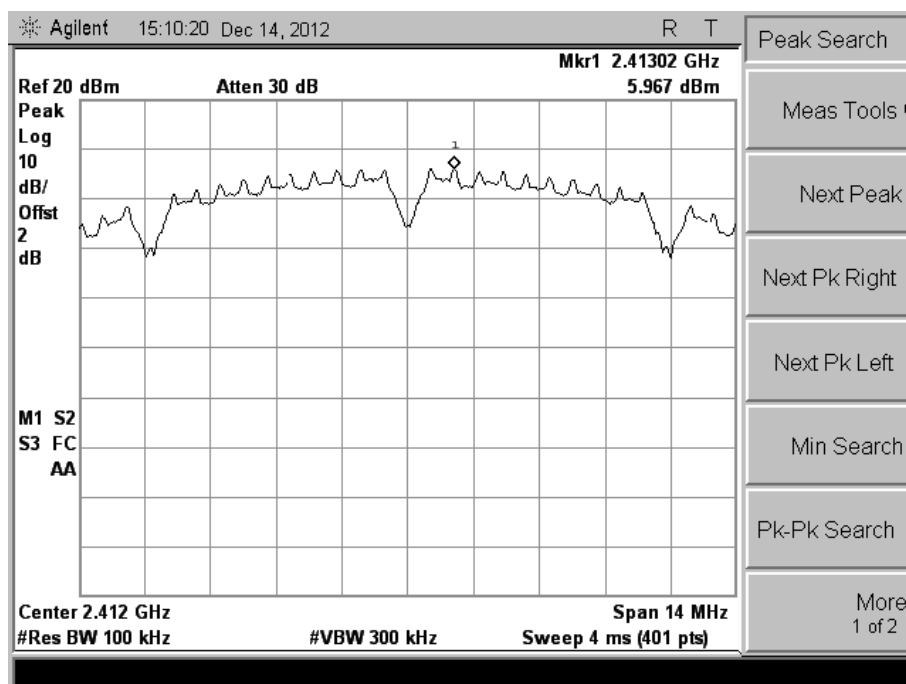
The lowest, middle and highest channels are tested to verify the power spectral density.

5.5.6.1 802.11b Test Mode

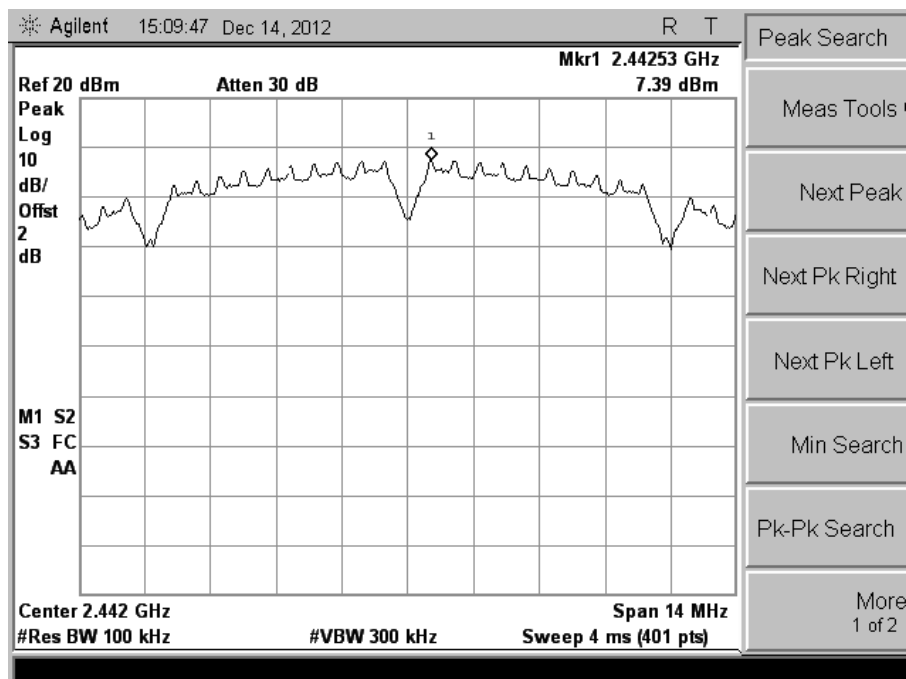
A. Test Verdict:

Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-9.233	≤ 8	PASS
7	2442	-7.810	≤ 8	PASS
11	2462	-8.245	≤ 8	PASS

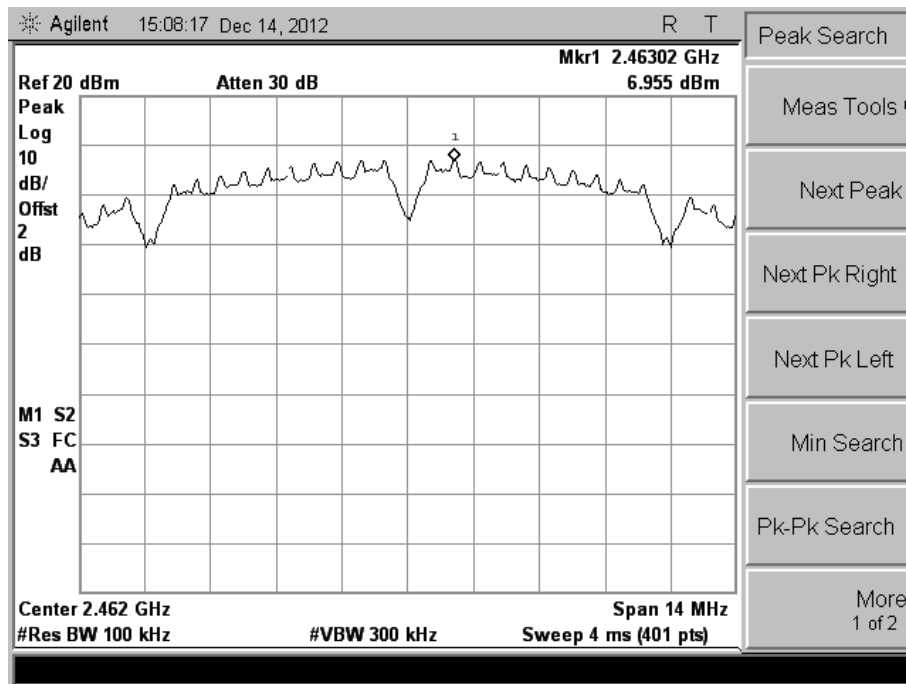
B. Test Plot:



(CH Low)



(CH Mid)



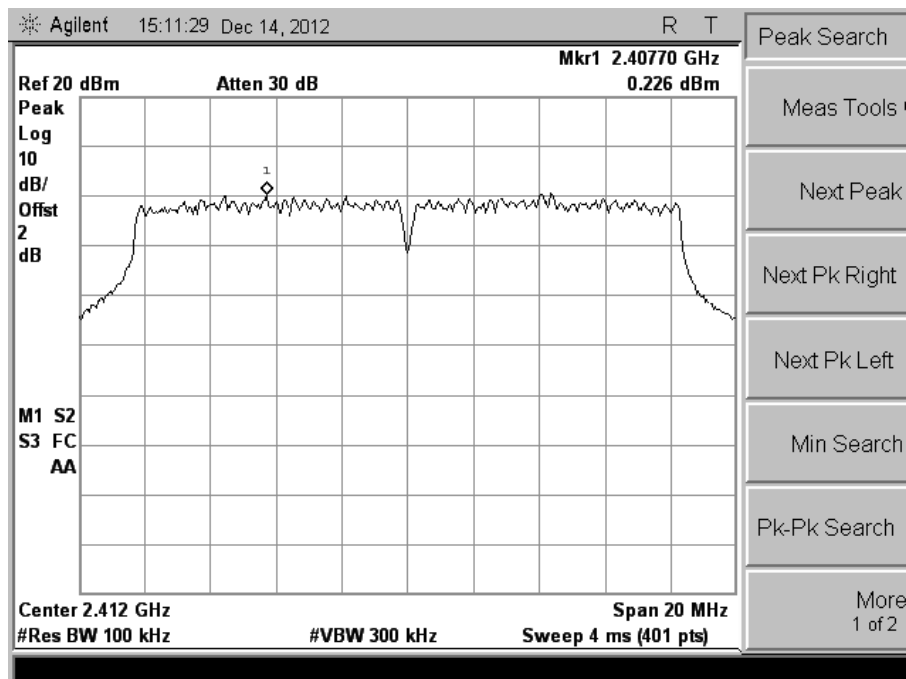
(CH High)

5.5.6.2 802.11g Test Mode

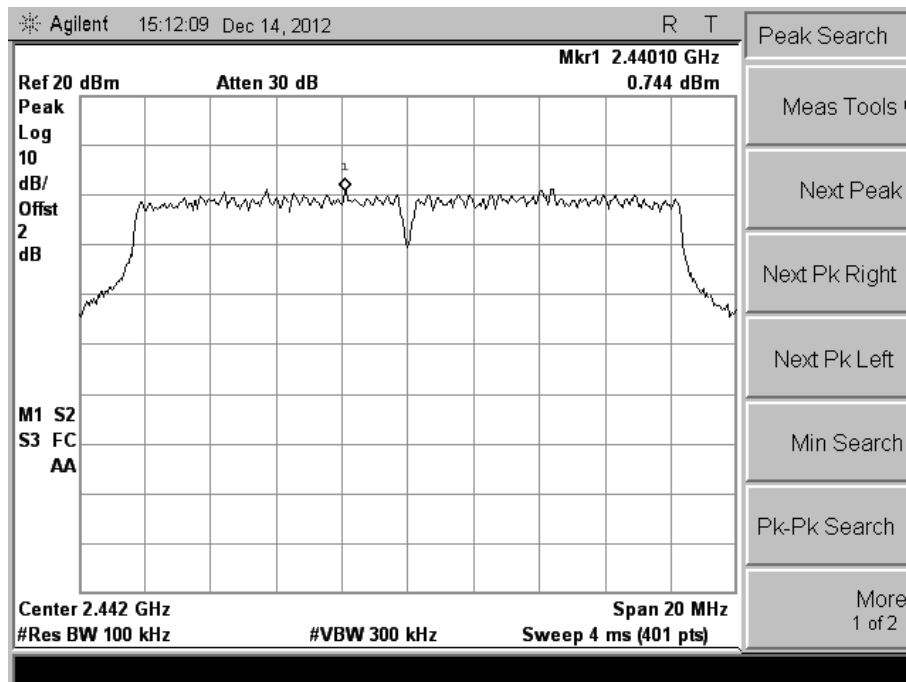
A. Test Verdict:

Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-14.974	≤ 8	PASS
7	2442	-14.456	≤ 8	PASS
11	2462	-14.466	≤ 8	PASS

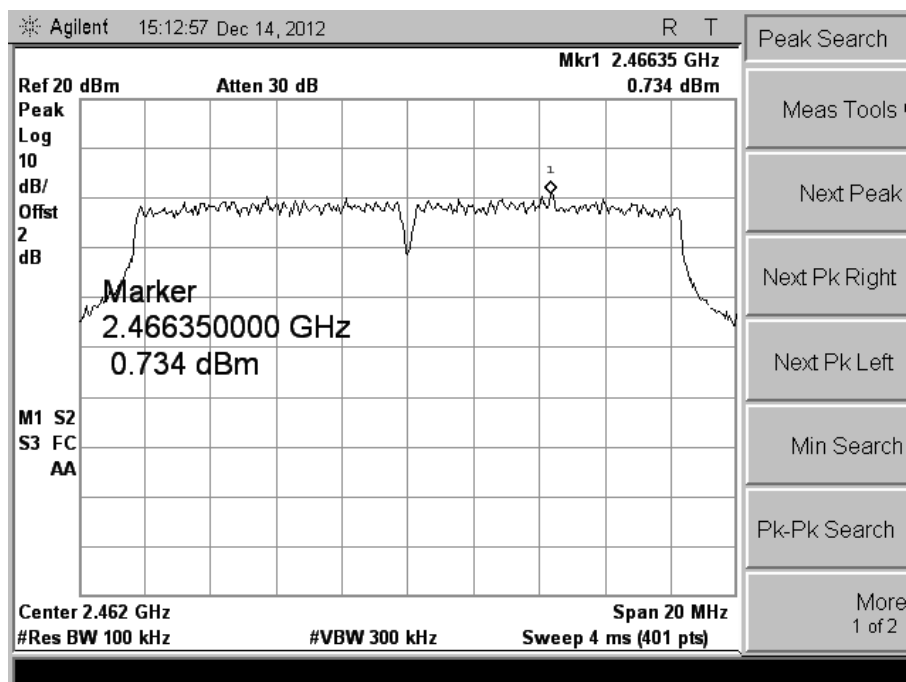
B. Test Plot:



(CH Low)



(CH Mid)



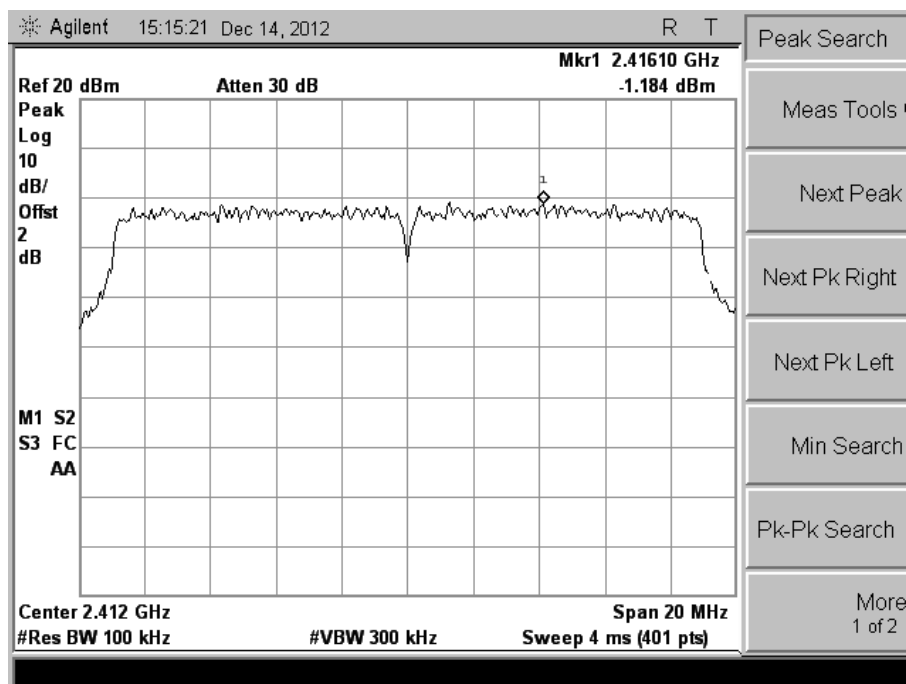
(CH High)

5.5.6.3 802.11n Test Mode (20MHz)

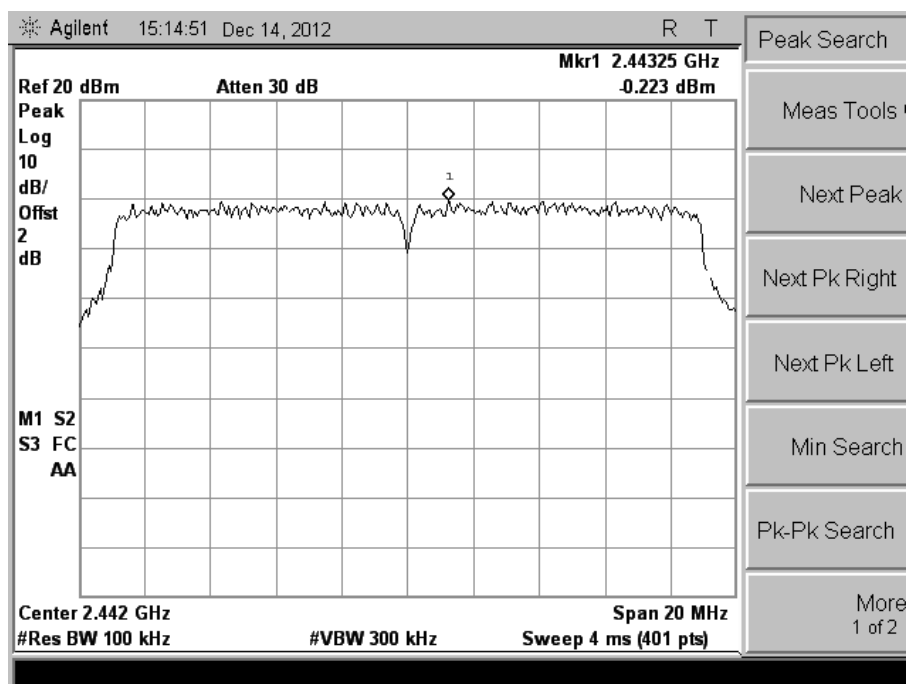
A. Test Verdict:

Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-16.384	≤ 8	PASS
7	2442	-15.423	≤ 8	PASS
11	2462	-16.565	≤ 8	PASS

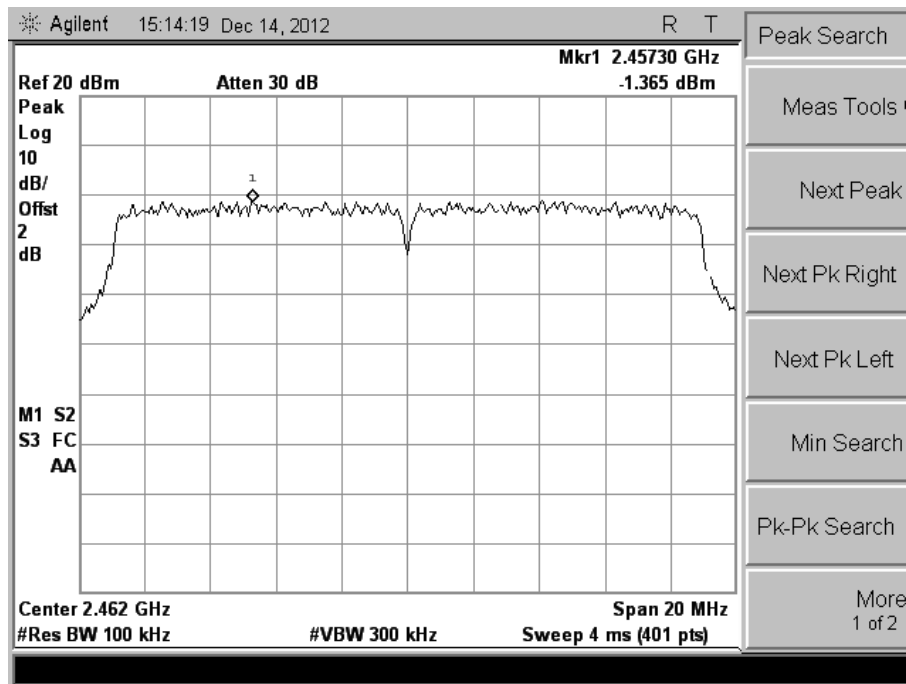
B. Test Plot:



(CH Low)



(CH Mid)



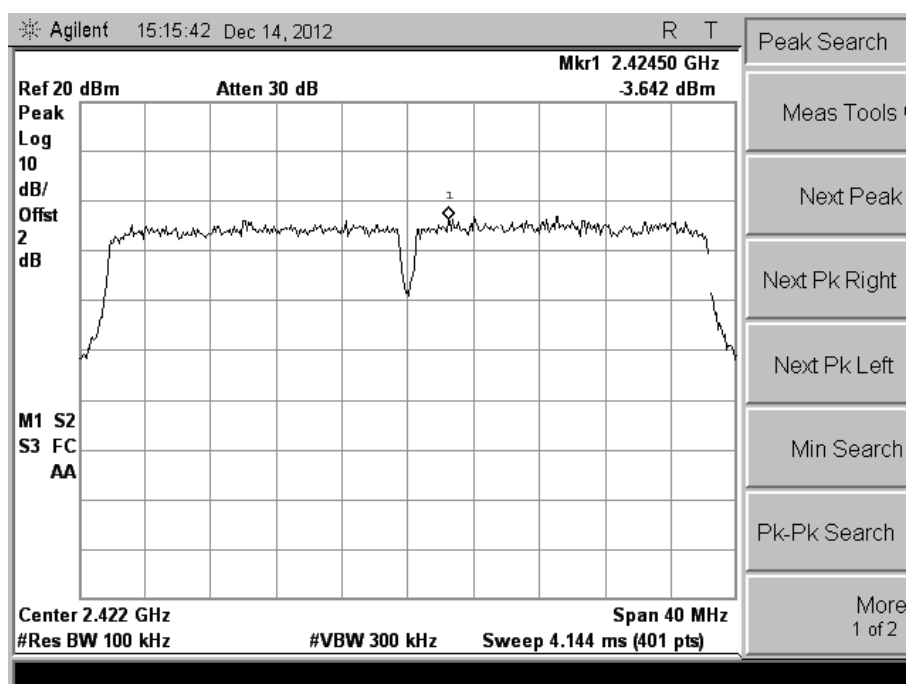
(CH High)

5.5.6.3 802.11n Test Mode (40MHz)

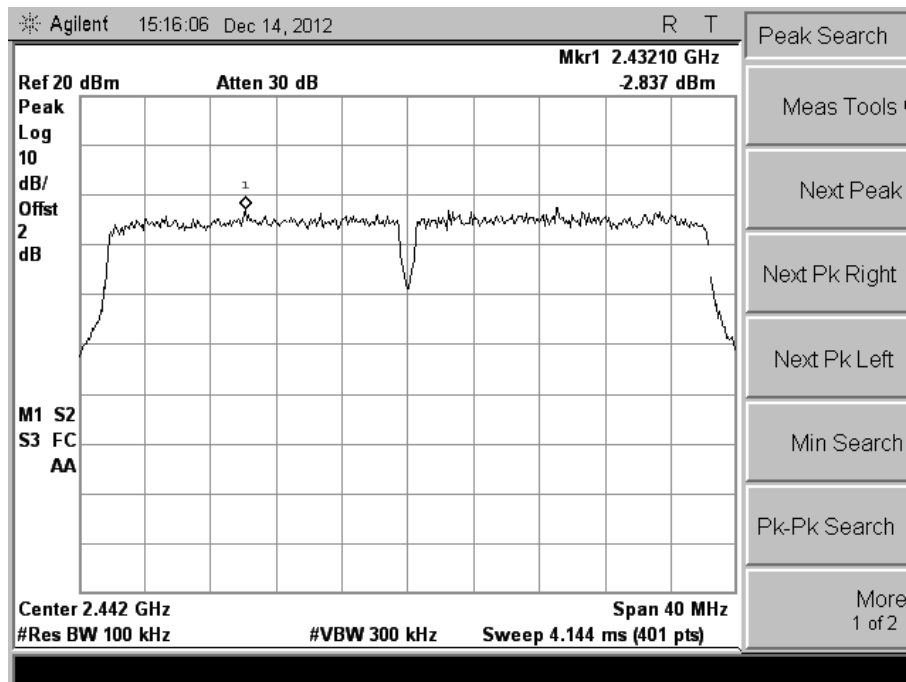
A. Test Verdict:

Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
3	2422	-18.842	≤ 8	PASS
7	2442	-18.037	≤ 8	PASS
9	2452	-17.919	≤ 8	PASS

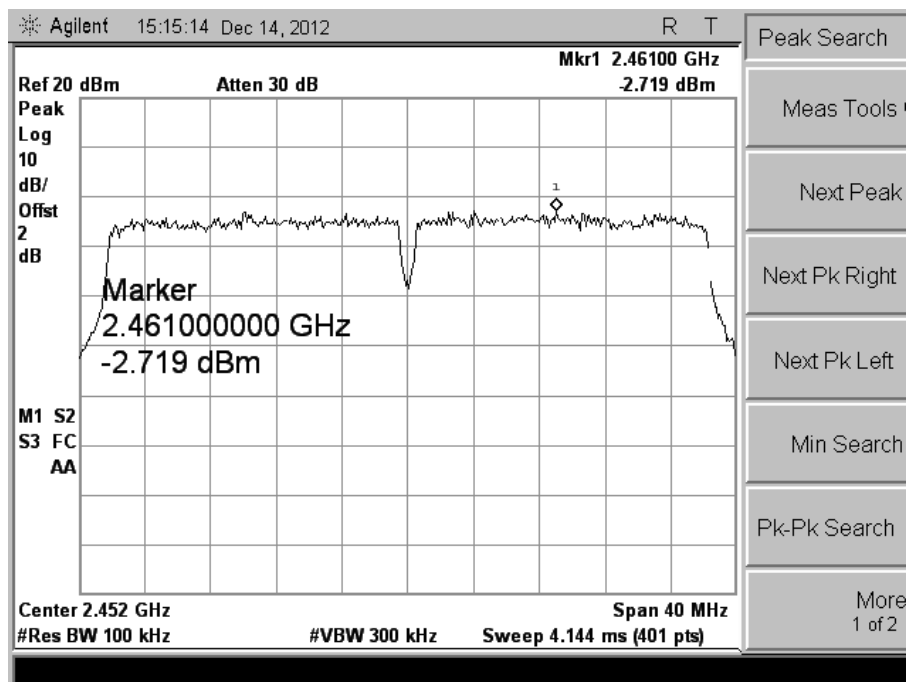
B. Test Plot:



(CH Low)



(CH Mid)



(CH High)

5.6 Conducted Emission

5.6.1 Definition

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

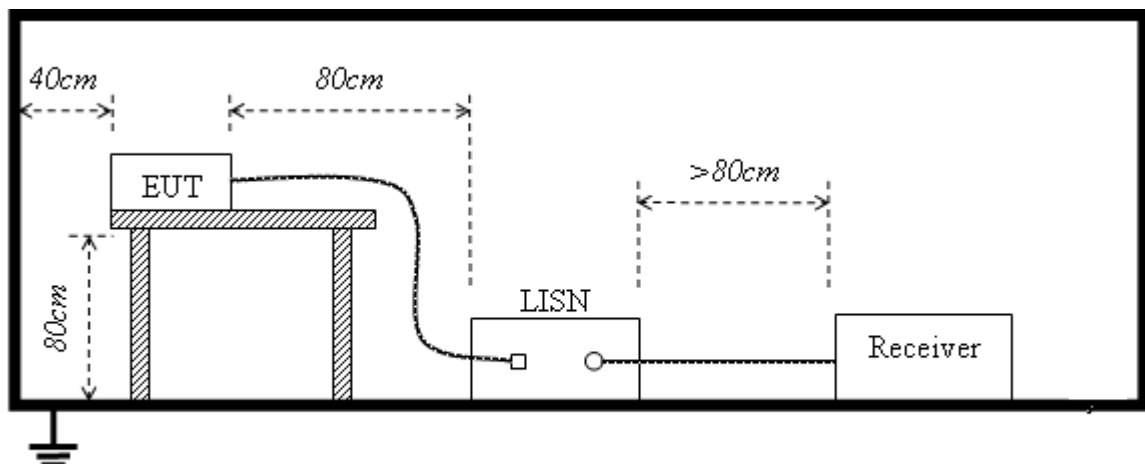
Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.6.2 Test Description

The EUT is powered by the AC Adapter which is powered by 120V, 60Hz AC mains supply. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power.



5.6.3 Test Result

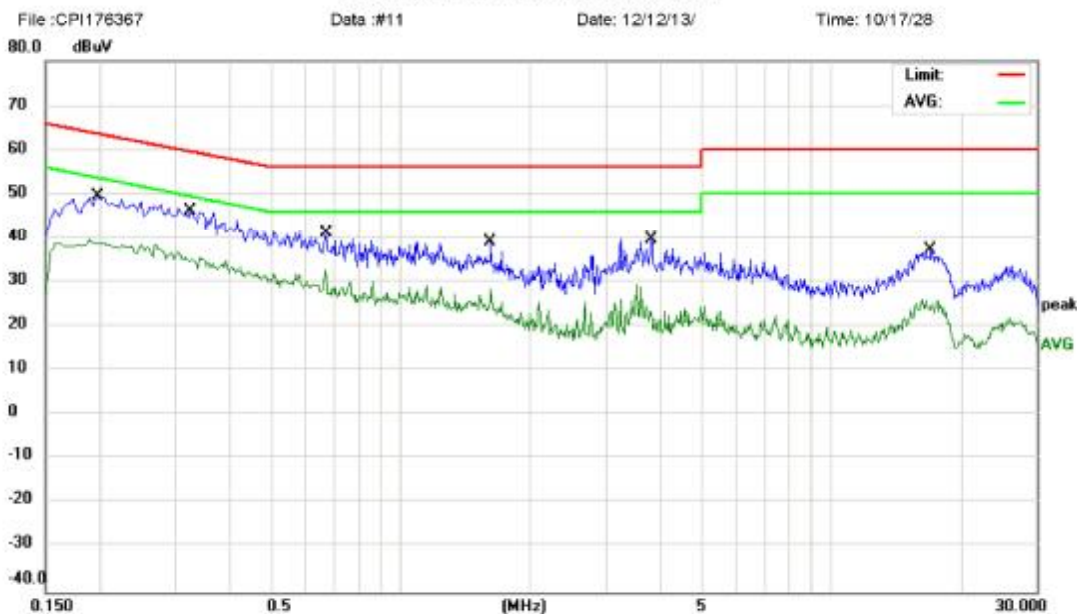
A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

The Wifi model was carried out for 802.11b/g/n modulation types, 802.11b High channel modulation type was the worst case condition, The test data was shown on the summary data page.



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement



Site Chamber #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 60 %

EUT: Tablet

M/N: CPI176367

Mode: WiFi Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1980	37.77	11.88	49.65	63.69	-14.04	QP	
2	*	0.3260	35.22	11.16	46.38	59.55	-13.17	QP	
3		0.6740	31.03	10.00	41.03	56.00	-14.97	QP	
4		1.6260	29.82	9.37	39.19	56.00	-16.81	QP	
5		3.8380	28.68	10.84	39.52	56.00	-16.48	QP	
6		17.0860	28.35	9.00	37.35	60.00	-22.65	QP	

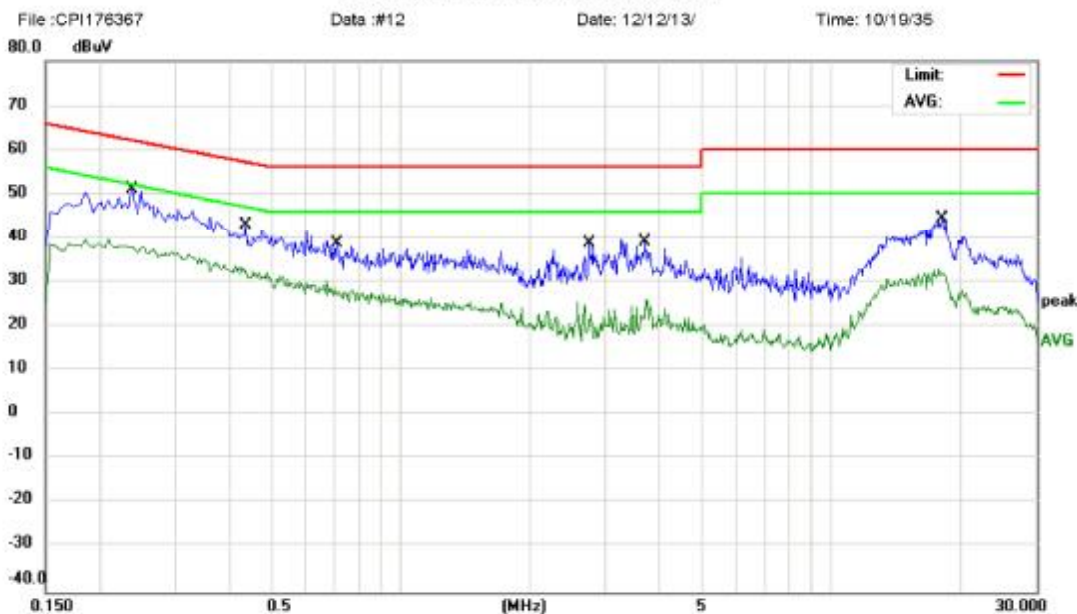
*:Maximum data x:Over limit !:over margin

Engineer Signature: Sky



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Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement



Site Chamber #1

Phase: **L1**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 60 %

EUT: Tablet

M/N: CPI176367

Mode: WiFi Mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2380	39.30	11.75	51.05	62.16	-11.11	QP	
2		0.4380	32.55	10.41	42.96	57.10	-14.14	QP	
3		0.7140	28.76	10.00	38.76	56.00	-17.24	QP	
4		2.7459	28.89	9.75	38.64	56.00	-17.36	QP	
5		3.7179	28.28	10.72	39.00	56.00	-17.00	QP	
6		18.1417	35.57	9.00	44.57	60.00	-15.43	QP	

*:Maximum data x:Over limit !:over margin

Engineer Signature: Sky

5.7 Radiated Emission

5.7.1 Definition

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

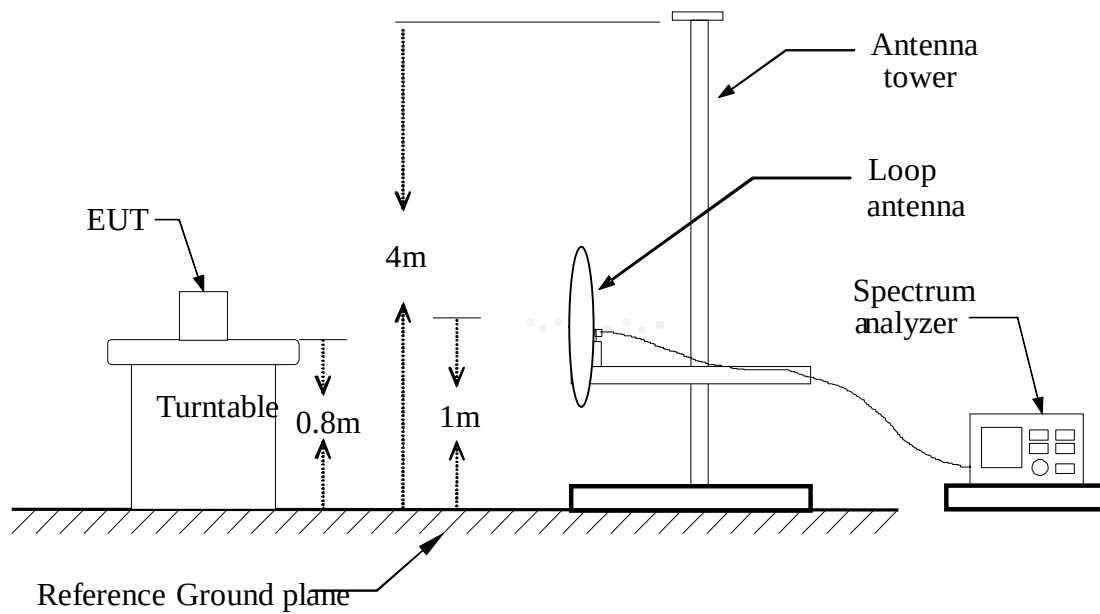
According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

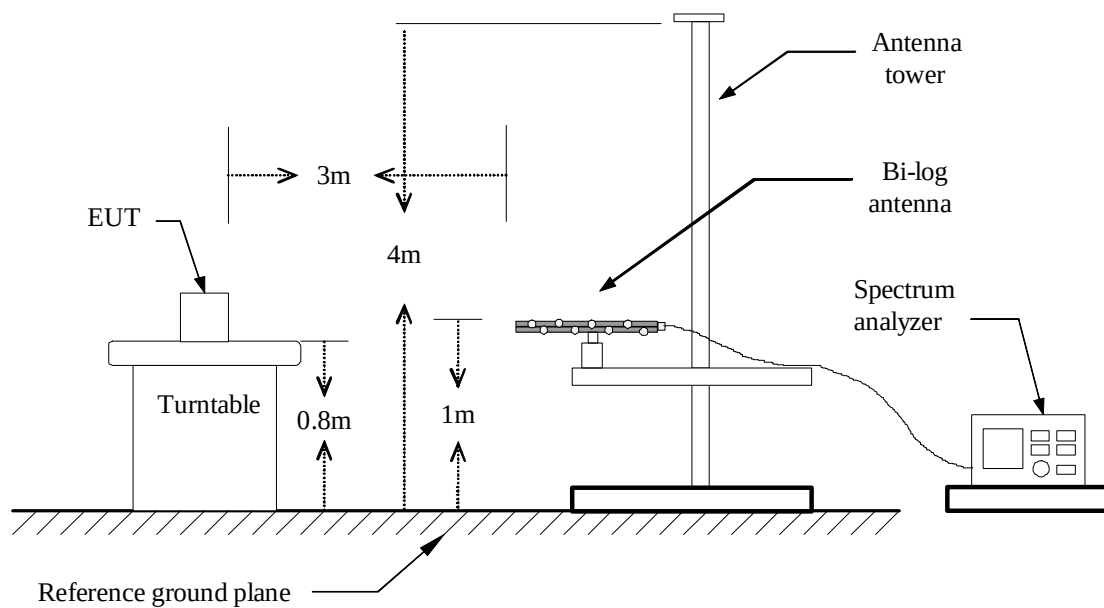
As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

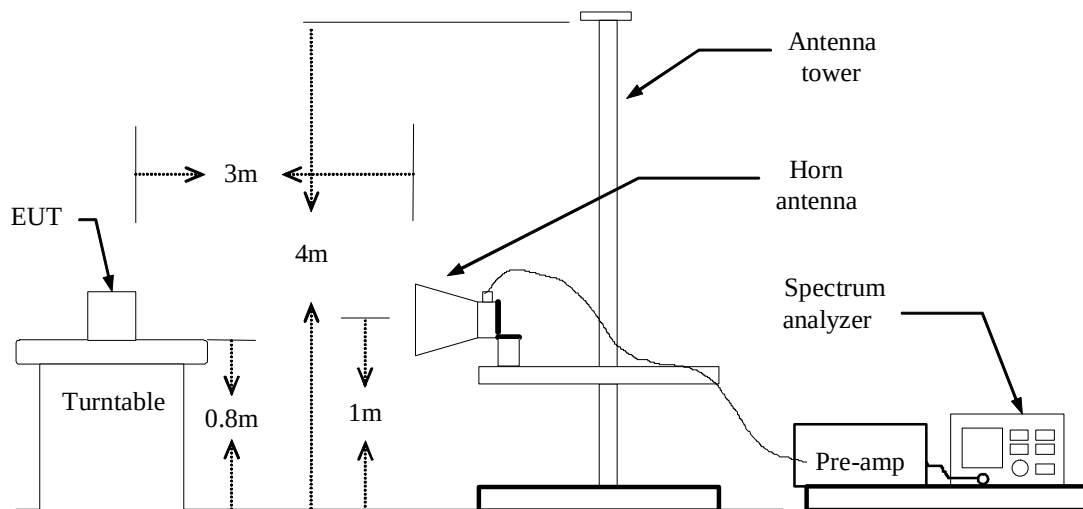
5.7.2 Test Description

A. Test Configuration:



Below 1GHz:



Above 1GHz:**B. Test procedures**

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO
Above 1GHz : (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

5.7.3 Test Result

The Wifi model was carried out for 802.11b/g/n modulation types, 802.11b High channel modulation type was the worst case condition, The test data was shown on the summary data page.

From 9KHz to 30MHz:

EUT:	Tablet	Model Name. :	CPI176367
Temperature:	20 °C	Relative Humidity: Mobility Testity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5V by Adapter AC 120V/60Hz
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $20 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

Conclusion: PASS

Below 1 GHz



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File: CPI176367

Data: #68

Date: 2012-12-10

Time: 10:50:39

70.0 dBuV/m



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: WiFi Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	119.2400	16.71	17.42	34.13	43.50	-9.37	QP		
2		229.8200	16.65	16.50	33.15	46.00	-12.85	QP		
3		460.6800	10.99	20.48	31.47	46.00	-14.53	QP		
4		576.1100	9.12	22.82	31.94	46.00	-14.06	QP		
5		691.5400	8.39	24.45	32.84	46.00	-13.16	QP		
6		756.5300	8.02	25.67	33.69	46.00	-12.31	QP		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Sky



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



Site Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: DC 5V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Tablet

Distance:

M/N: CPI176367

Mode: WiFi Mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		137.6699	14.27	17.32	31.59	43.50	-11.91	QP		
2		172.5900	20.06	17.07	37.13	43.50	-6.37	QP		
3	*	288.0200	21.45	19.42	40.87	46.00	-5.13	QP		
4		460.6800	10.50	20.48	30.98	46.00	-15.02	QP		
5		576.1100	6.75	22.82	29.57	46.00	-16.43	QP		
6		756.5300	6.25	25.67	31.92	46.00	-14.08	QP		

*:Maximum data x:Over limit !:over margin

Engineer Signature:

Sky

Above 1 GHz

Operation Mode: TX/ IEEE 802.11b/CH Low **Test Date:** Dec. 10, 2012
Temperature: 20°C **Tested by:** Habby Guo
Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF	Peak	AV	Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)			(dBuV/m)	(dBuV/m)	(dB)
4824.0	H	34.36	23.79	23.54	57.90	47.33	74.00	54.00	-6.67
N/A	H								
4824.0	V	33.23	22.15	23.36	56.59	45.51	74.00	54.00	-8.49
N/A	V								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11b/CH Mid**Test Date:** Dec. 10, 2012**Temperature:** 20°C**Tested by:** Habby Guo**Humidity:** 70 % RH**Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4884.0	H	35.86	21.55	23.54	59.40	45.05	74.00	54.00	-8.95
N/A	H								
4884.0	V	35.33	22.69	23.36	58.69	46.05	74.00	54.00	-7.95
N/A	V								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11b/CH High**Test Date:** Dec. 10, 2012**Temperature:** 20°C**Tested by:** Habby Guo**Humidity:** 70 % RH**Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF	Peak	AV	Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)			(dBuV/m)	(dBuV/m)	(dB)
4924.0	H	33.25	22.93	23.54	56.79	46.47	74.00	54.00	-7.53
N/A	H								
4924.0	V	31.89	20.62	23.36	55.25	43.98	74.00	54.00	-10.02
N/A	V								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH Low**Test Date:** Dec. 10, 2012**Temperature:** 20°C**Tested by:** Habby Guo**Humidity:** 70 % RH**Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4824.0	H	32.54	23.09	23.78	56.32	46.87	74.00	54.00	-7.13
N/A	H								
4824.0	V	30.97	21.16	24.01	54.98	45.17	74.00	54.00	-8.83
N/A	V								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH Mid**Test Date:** Dec. 10, 2012**Temperature:** 20°C**Tested by:** Habby Guo**Humidity:** 70 % RH**Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4884.0	H	33.00	23.82	23.78	56.78	47.60	74.00	54.00	-6.40
N/A	H								
4884.0	V	32.31	23.04	24.01	56.32	47.05	74.00	54.00	-6.95
N/A	V								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11g/CH High
Temperature: 20°C
Humidity: 70 % RH

Test Date: Dec. 10, 2012
Tested by: Habby Guo
Polarity: Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
4924.0	H	32.25	24.58	23.78	56.03	48.36	74.00	54.00	-5.64
N/A	H								
4924.0	V	31.43	23.47	24.01	55.44	47.48	74.00	54.00	-6.52
N/A	V								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11n(20MHz)/CH Low
Temperature: 20°C
Humidity: 70 % RH

Test Date: Dec. 10, 2012
Tested by: Habby Guo
Polarity: Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF	Peak	AV	Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)			(dBuV/m)	(dBuV/m)	(dB)
4824.0	H	31.53	21.10	24.02	55.55	45.12	74.00	54.00	-8.88
N/A	H								
4824.0	V	31.01	20.69	24.68	55.69	45.37	74.00	54.00	-8.63
N/A	V								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11n(20MHz)/CH Mid
Temperature: 20°C
Humidity: 70 % RH
Test Date: Dec. 10, 2012
Tested by: Habby Guo
Polarity: Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF	Peak	AV	Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)			(dBuV/m)	(dBuV/m)	(dB)
4884.0	H	32.17	21.48	24.02	56.19	45.50	74.00	54.00	-8.50
N/A	H								
4884.0	V	31.26	21.02	24.68	55.94	45.70	74.00	54.00	-8.30
N/A	V								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6 Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode:	TX/ IEEE 802.11n(20MHz)/CH High	Test Date:	Dec. 10, 2012
Temperature:	20°C	Tested by:	Habby Guo
Humidity:	70 % RH	Polarity:	Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF	Peak	AV	Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)			(dBuV/m)	(dBuV/m)	(dB)
4924.0	H	31.14	20.76	24.02	55.16	44.78	74.00	54.00	-9.22
N/A	H								
4924.0	V	30.06	20.41	24.68	54.74	45.09	74.00	54.00	-8.91
N/A	V								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode:	TX/ IEEE 802.11n(40MHz)/CH Low	Test Date:	Dec. 10, 2012
Temperature:	20°C	Tested by:	Habby Guo
Humidity:	70 % RH	Polarity:	Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF	Peak	AV	Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)			(dBuV/m)	(dBuV/m)	(dB)
4844.0	H	31.79	21.45	20.37	52.16	41.82	74.00	54.00	-12.18
N/A	H								
4844.0	V	31.21	20.84	20.07	51.28	40.91	74.00	54.00	-13.09
N/A	V								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode: TX/ IEEE 802.11n(40MHz)/CH Mid
Temperature: 20°C
Humidity: 70 % RH
Test Date: Dec. 10, 2012
Tested by: Habby Guo
Polarity: Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF	Peak	AV	Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)			(dBuV/m)	(dBuV/m)	(dB)
4884.0	H	32.23	22.05	20.71	44.28	42.76	74.00	54.00	-11.24
N/A	H								
4884.0	V	31.14	21.47	20.08	51.22	41.55	74.00	54.00	-12.45
N/A	V								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 7 Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Operation Mode:	TX/ IEEE 802.11n(40MHz)/CH High	Test Date:	Dec. 10, 2012
Temperature:	20°C	Tested by:	Habby Guo
Humidity:	70 % RH	Polarity:	Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF	Peak	AV	Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)			(dBuV/m)	(dBuV/m)	(dB)
4904.0	H	31.37	21.61	24.02	55.39	45.63	74.00	54.00	-8.37
N/A	H								
4904.0	V	30.54	20.56	24.68	55.22	45.24	74.00	54.00	-8.76
N/A	V								

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

APPENDIX 1

PHOTOGRAPHS OF TEST SETUP

CONDUCTED SPURIOUS EMISSION TEST SETUP



-----END OF REPORT-----