

# FCC REPORT (WIFI)

**Applicant:** GNJ Manufacturing Inc.

**Address of Applicant:** 205 Ansin Blvd Hallandale Beach, FL 33009,USA

**Equipment Under Test (EUT)**

Product Name: Mobile Phone-Amazing Series

Model No.: CAPHG10-01

**FCC ID:** 2AAE9CAPHG10-01

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247

**Date of sample receipt:** 28 May 2013

**Date of Test:** 29 May to 18 Jun.,2013

**Date of report issued:** 18 Jun.,2013

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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## 2 Version

Version No.	Date	Description
00	18 Jun.,2013	Original

Prepared by:

Date:

18 Jun., 2013

**Report Clerk**

Reviewed by:

Date:

18 Jun., 2013

**Project Engineer**

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## 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
26/6dB Emission Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

*Pass: The EUT complies with the essential requirements in the standard.*

## 5 General Information

### 5.1 Client Information

Applicant:	GNJ Manufacturing Inc.
Address of Applicant:	205 Ansin Blvd Hallandale Beach, FL 33009,USA
Manufacturer:	GNJ Manufacturing Inc.
Address of Manufacturer:	205 Ansin Blvd Hallandale Beach, FL 33009,USA

### 5.2 General Description of E.U.T.

Product Name:	Mobile Phone-Amazing Series
Model No.:	CAPHG10-01
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	-1.1 dBi
AC adapter :	Input:100-240V AC,50/60Hz 150mA Output:5.0V DC MAX 800mA
Power supply:	Rechargeable Li-ion Battery DC3.7V

Operation Frequency each of channel For 802.11b/g/n(H20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel For 802.11n(H40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
		5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (H20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (H40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

## 5.3 Test environment and mode

<b>Operating Environment:</b>	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
<b>Test mode:</b>	
Operation mode	Keep the EUT in continuous transmitting with modulation
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

**Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.**

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

### Final Test Mode:

According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20) and 13.5 Mbps for 802.11n(H40). Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

## 5.4 Laboratory Facility

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

● **FCC - Registration No.: 817957**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 817957, February 27, 2012.

● **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

## 5.5 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,  
Bao'an District, Shenzhen, Guangdong, China

Tel: 0755-23118282

Fax: 0755-23116366



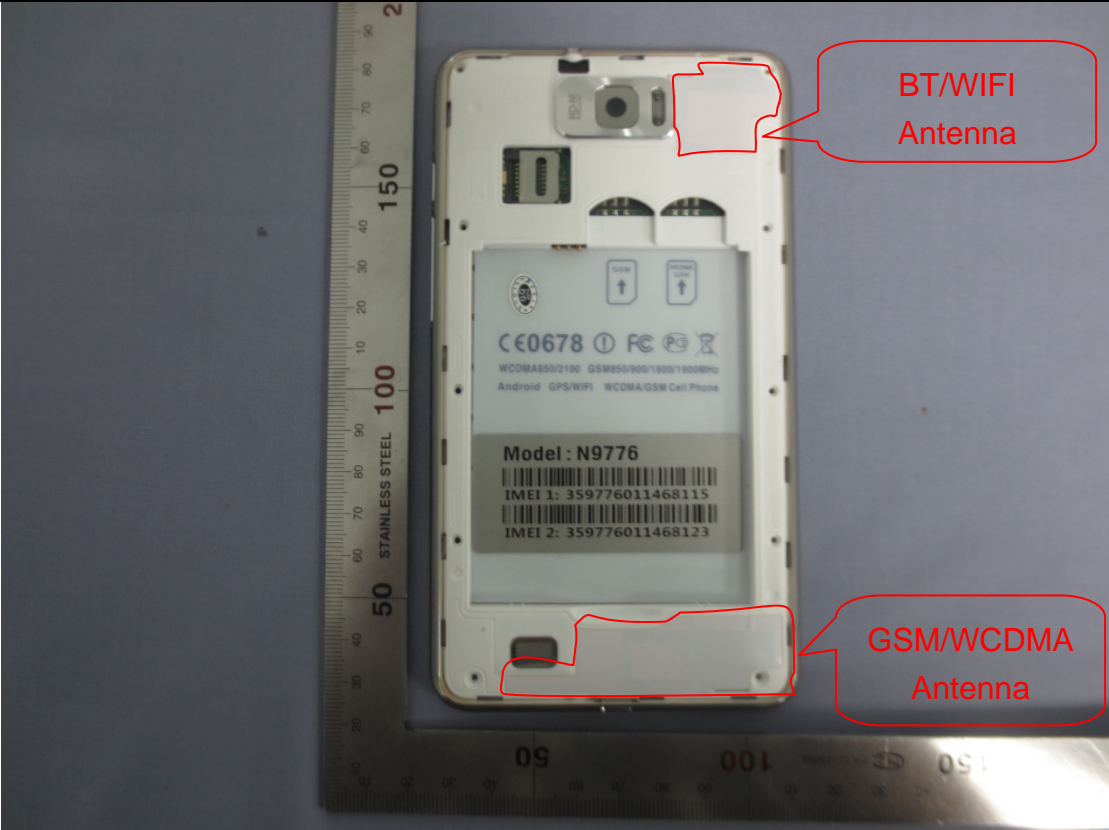
## 5.6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2012	June 08 2013
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	May 25 2013	May 24 2014
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 25 2013	May 24 2014
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2013	Mar. 31 2014
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2013	Mar. 31 2014
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2013	Mar. 31 2014
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2013	Mar. 31 2014
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2013	Mar. 31 2014
10	Amplifier(10kHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2013	Mar. 31 2014
11	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2012	June 08 2013
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2013	Mar. 31 2014
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2013	Mar. 29 2014
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	May. 25 2013	May. 24 2014
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2013	Mar. 31 2014
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2012	Aug. 11 2013
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	May. 25 2013	May. 24 2014
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2013	May. 24 2014
21	Spectrum analyzer	Agilent	E4440A	US43362176	Jan.11 2013	Jan.10 2014

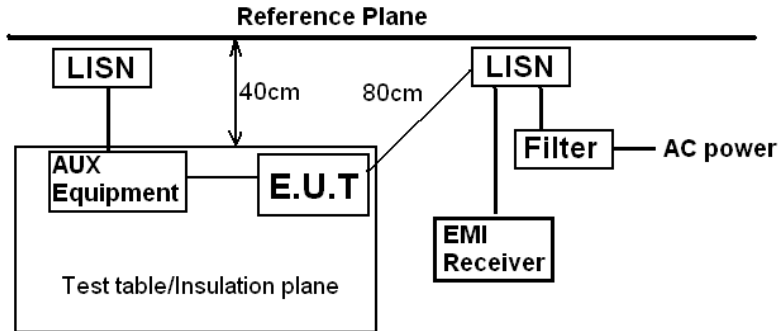
Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2012	June 08 2013
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2013	May 24 2014
3	LISN	CHASE	MN2050D	CCIS0074	Apr 01 2013	Mar. 31 2014
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2013	Mar. 31 2014
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

## 6 Test results and Measurement Data

### 6.1 Antenna requirement:

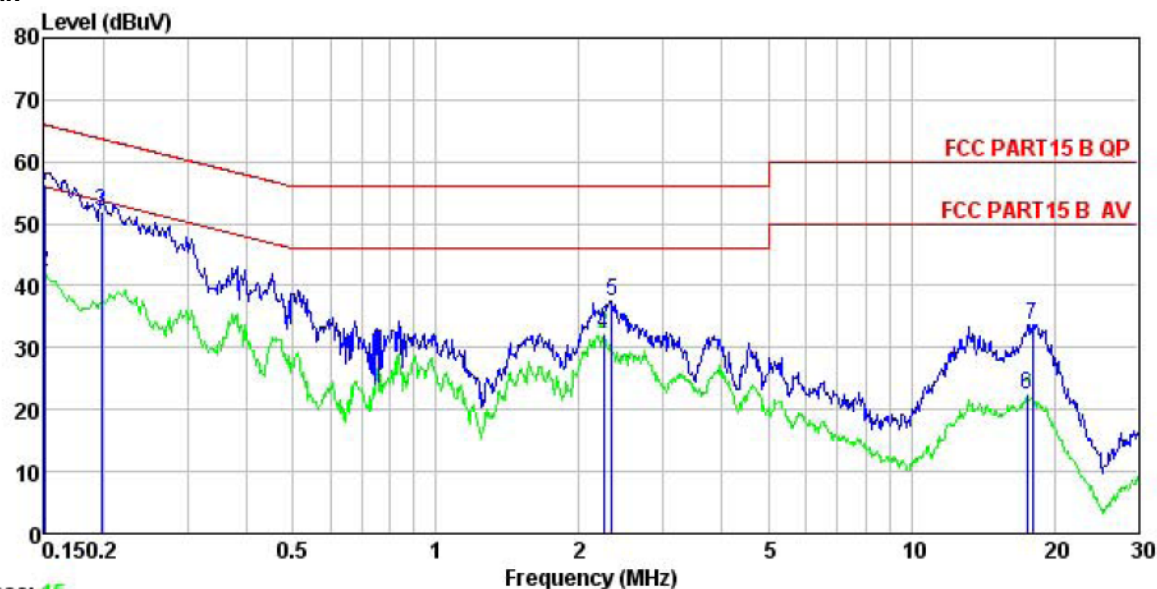
<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
<p>15.203 requirement:  <i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</i></p> <p>15.247(c) (1)(i) requirement:  <i>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</i></p>	
<b>E.U.T Antenna:</b>	
<p>The antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is-1.1 dBi.</p>	
	

## 6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.4: 2003		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure	<ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.</li> </ol>		
Test setup:	 <p>Remark:  E.U.T: Equipment Under Test  LISN: Line Impedance Stabilization Network  Test table height=0.8m</p>		
Test Instruments:	Refer to section 5.6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

### Measurement Data

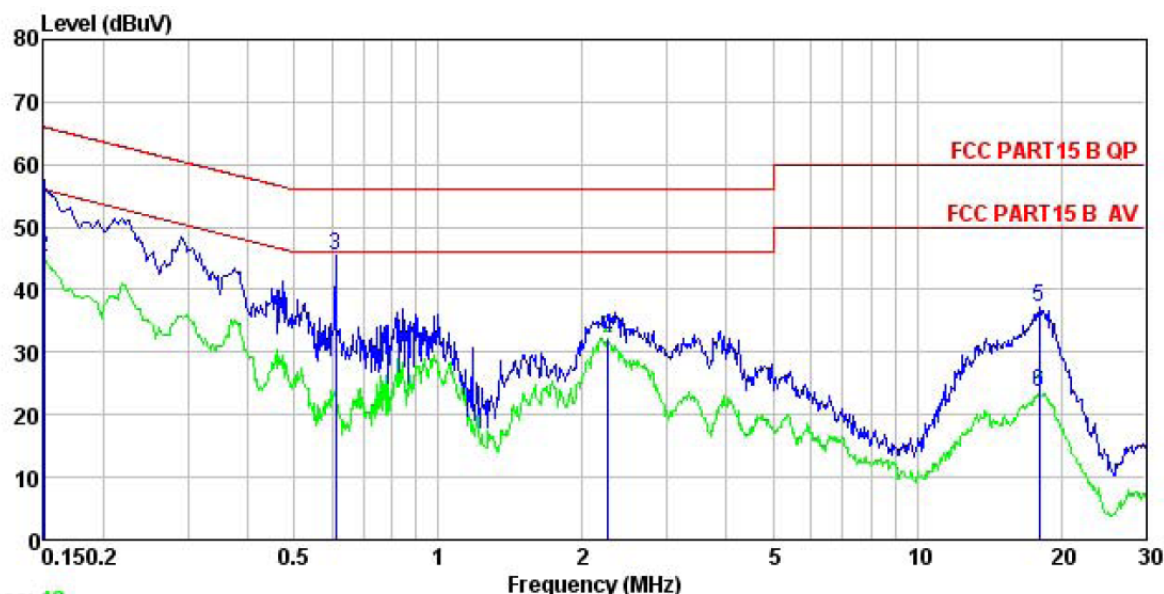
Neutral:



Site : CCIS Conducted Test Site  
 Condition : FCC PART15 B QP LISN NEUTRAL  
 Job No. : 155RF  
 EUT : Mobile phone  
 Model : CAPHG10-01  
 Test Mode : Wifi mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa  
 Test Engineer:

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	45.26	10.27	0.79	56.32	66.00	-9.68	QP
2	0.150	31.28	10.27	0.79	42.34	56.00	-13.66	Average
3	0.198	41.02	10.23	0.76	52.01	63.71	-11.70	QP
4	2.249	21.05	10.27	0.95	32.27	46.00	-13.73	Average
5	2.346	26.17	10.27	0.94	37.38	56.00	-18.62	QP
6	17.475	11.15	10.29	0.92	22.36	50.00	-27.64	Average
7	17.944	22.49	10.30	0.92	33.71	60.00	-26.29	QP

Line:



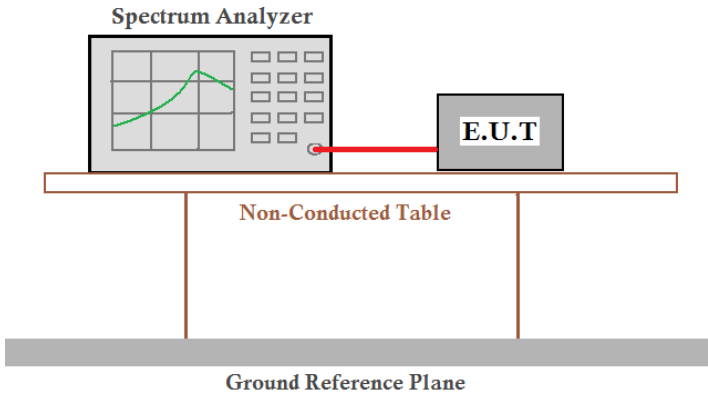
Site : CCIS Conducted Test Site  
 Condition : FCC PART15 B QP LISN LINE  
 Job No. : 155RF  
 EUT : Mobile phone  
 Model : CAPHG10-01  
 Test Mode : Wifi mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa  
 Test Engineer:

	Freq	Read Level	LISN Factor	Cable Loss	Preamplifier	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.150	46.40	10.25	0.79	0.00	57.44	66.00	-8.56	QP
2	0.150	34.13	10.25	0.79	0.00	45.17	56.00	-10.83	Average
3	0.611	34.36	10.22	0.77	0.00	45.35	56.00	-10.65	QP
4	2.261	20.95	10.28	0.95	0.00	32.18	46.00	-13.82	Average
5	17.944	25.90	10.29	0.92	0.00	37.11	60.00	-22.89	QP
6	17.944	12.33	10.29	0.92	0.00	23.54	50.00	-26.46	Average

## Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Loss

## 6.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Test method refer to KDB558074 (DTS Measure Guidance) section 8.2, option 1.

### Measurement Data

Test CH	Maximum Conducted Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	10.27	9.69	10.22	6.01	30.00	Pass
Middle	10.14	10.16	9.77	5.85		
Highest	10.73	9.86	10.03	6.47		

Test plot as follows:

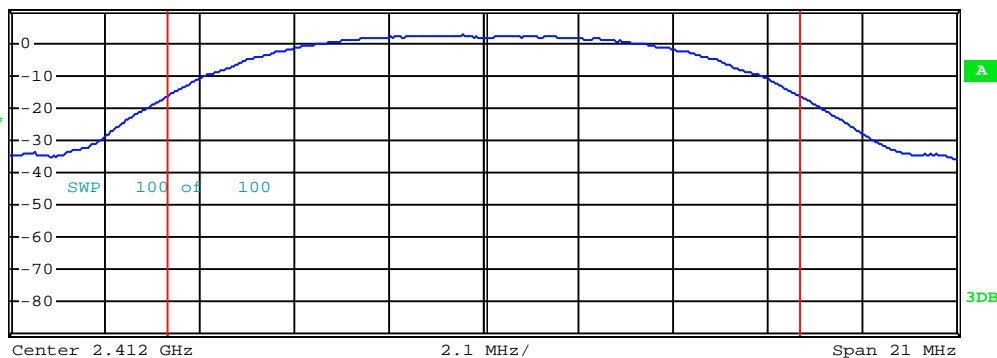


Test mode:	802.11b
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Ref 10 dBm \* Att 30 dB \* RBW 1 MHz  
\* VBW 3 MHz  
SWT 10 ms

1 RM  
MAXH



Tx Channel

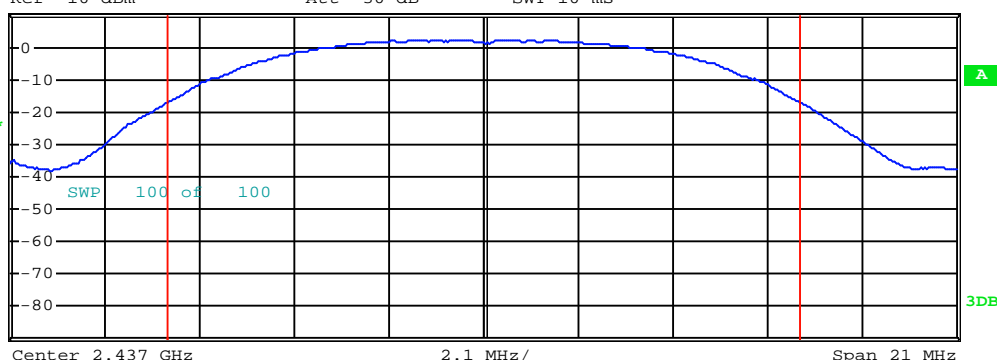
Bandwidth 14 MHz Power 10.27 dBm

## Lowest channel



Ref 10 dBm \* Att 30 dB \* RBW 1 MHz  
\* VBW 3 MHz  
SWT 10 ms

1 RM  
MAXH



Tx Channel

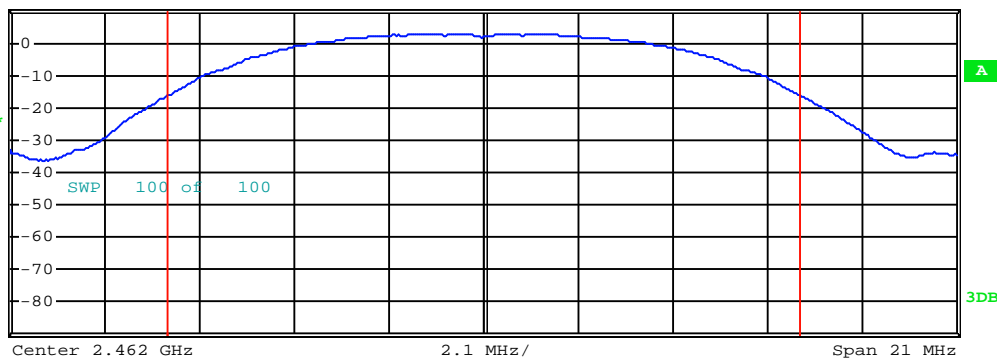
Bandwidth 14 MHz Power 10.14 dBm

## Middle channel



Ref 10 dBm \* Att 30 dB \* RBW 1 MHz  
\* VBW 3 MHz  
SWT 10 ms

1 RM  
MAXH

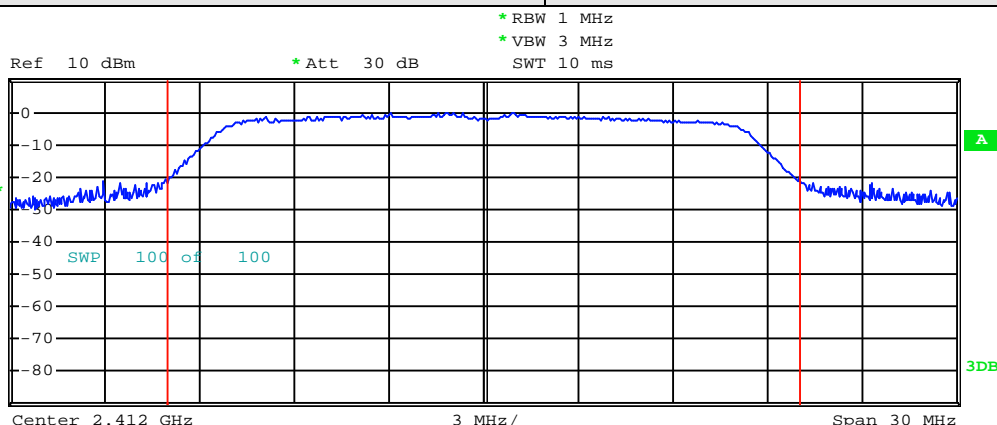


Tx Channel

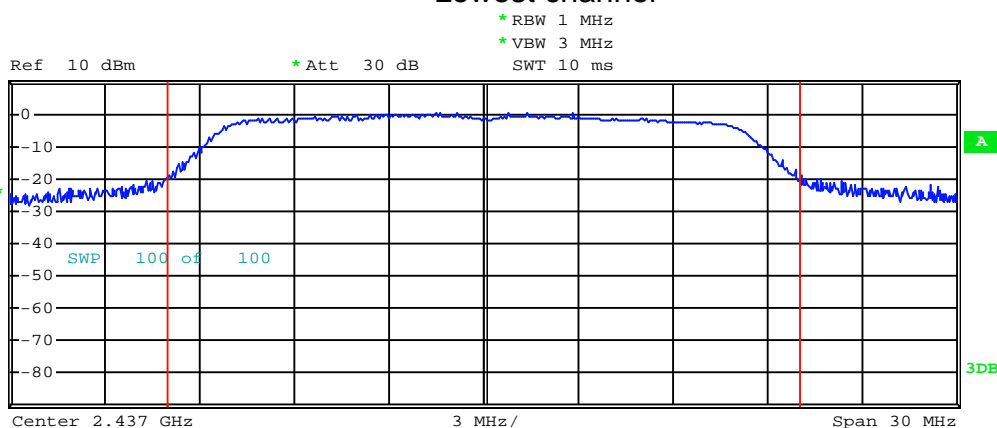
Bandwidth 14 MHz Power 10.73 dBm

## Highest channel

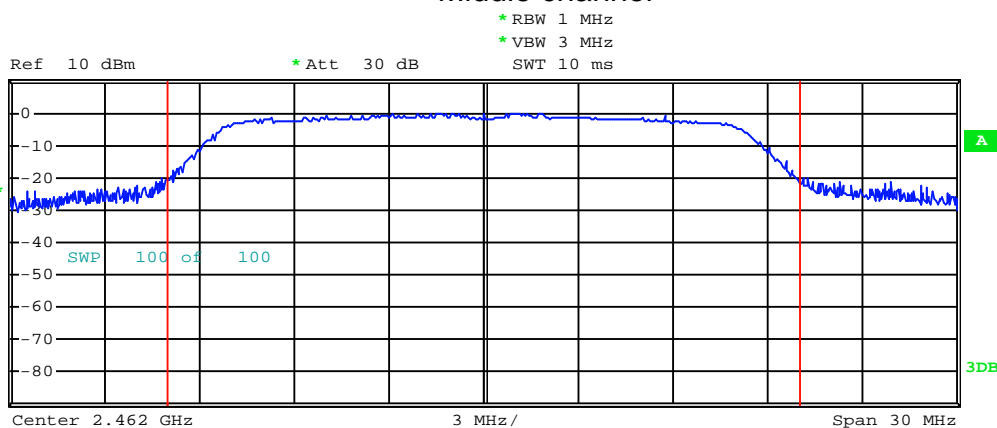
Test mode:	802.11g
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## Lowest channel



## Middle channel



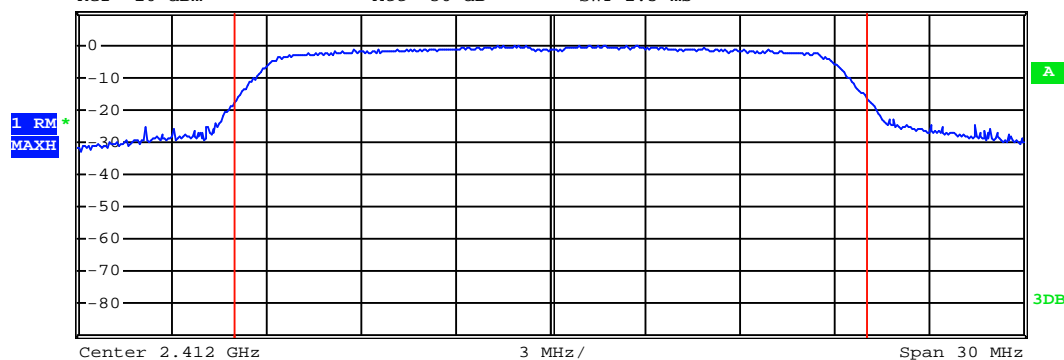
## Highest channel



Test mode:	802.11n(H20)
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Ref 10 dBm \* Att 30 dB \* RBW 1 MHz  
\* VBW 3 MHz  
SWT 2.5 ms



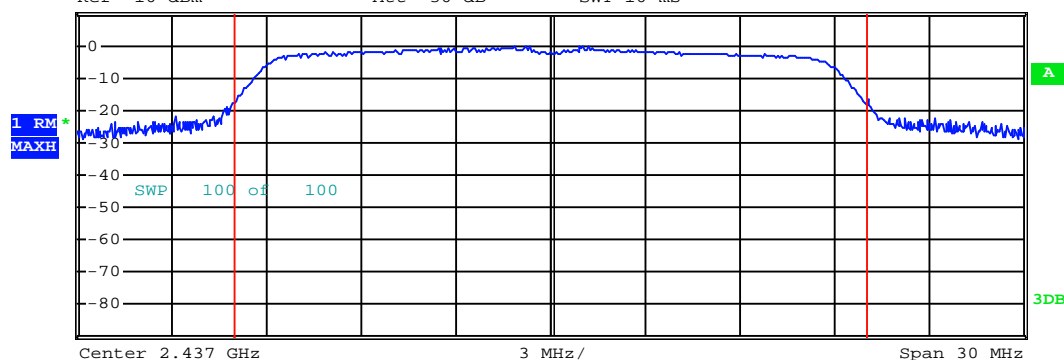
Tx Channel

Bandwidth 20 MHz Power 10.22 dBm

Lowest channel



Ref 10 dBm \* Att 30 dB \* RBW 1 MHz  
\* VBW 3 MHz  
SWT 10 ms



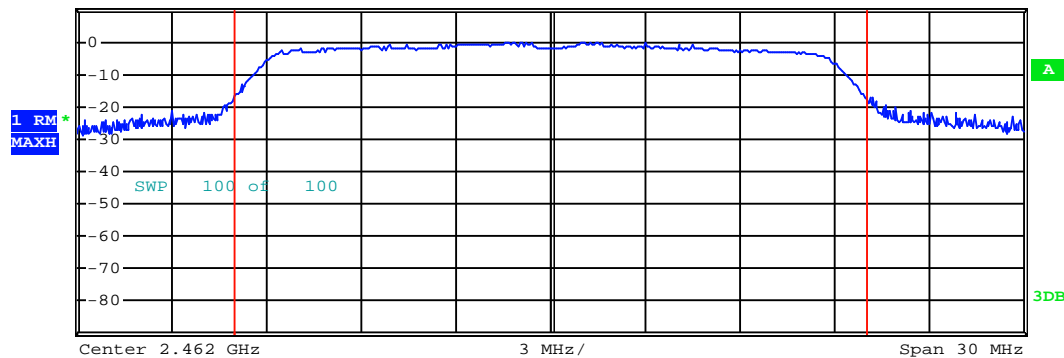
Tx Channel

Bandwidth 20 MHz Power 9.77 dBm

Middle channel



Ref 10 dBm \* Att 30 dB \* RBW 1 MHz  
\* VBW 3 MHz  
SWT 10 ms

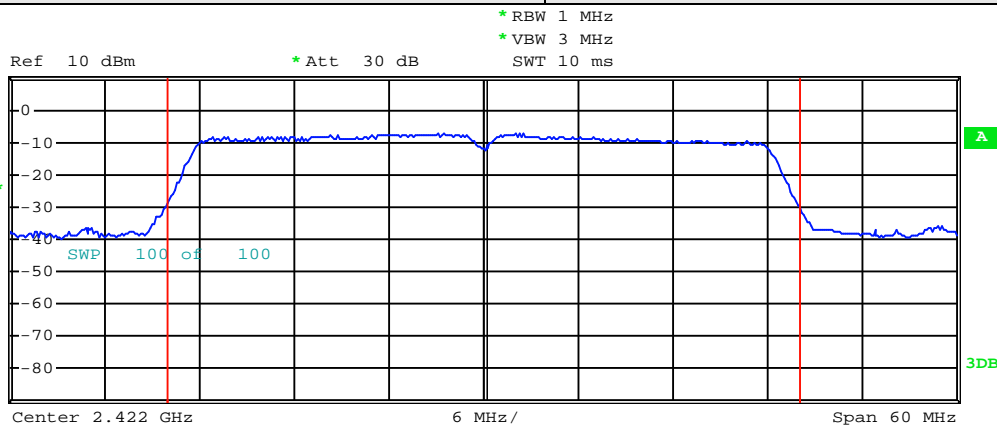


Tx Channel

Bandwidth 20 MHz Power 10.03 dBm

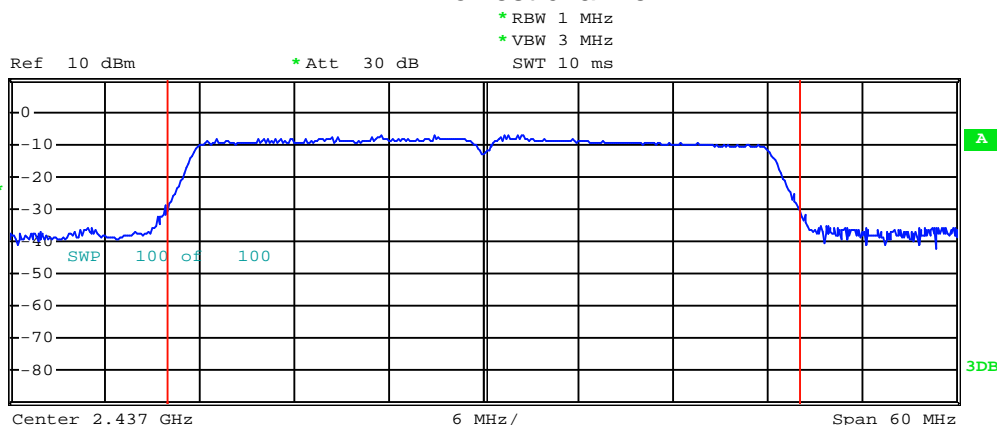
Highest channel

Test mode:	802.11n(H40)
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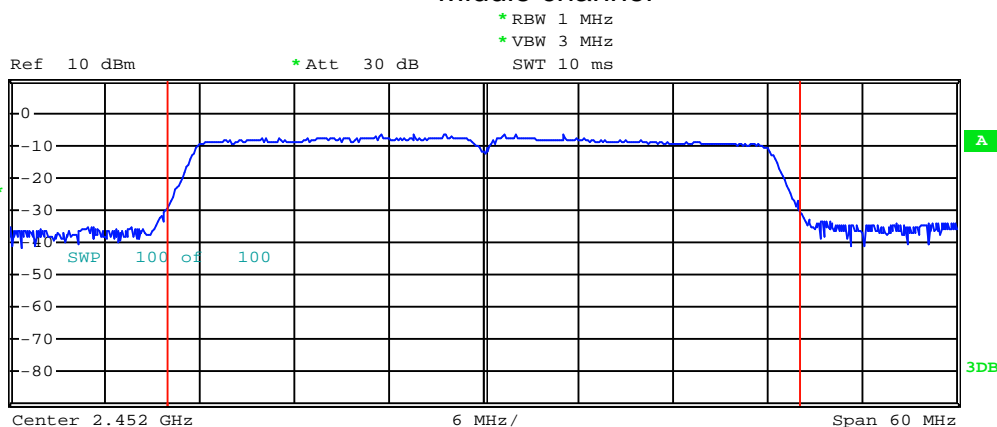
**Tx Channel**  
Bandwidth 40 MHz Power 6.01 dBm

## Lowest channel



**Tx Channel**  
Bandwidth 40 MHz Power 5.85 dBm

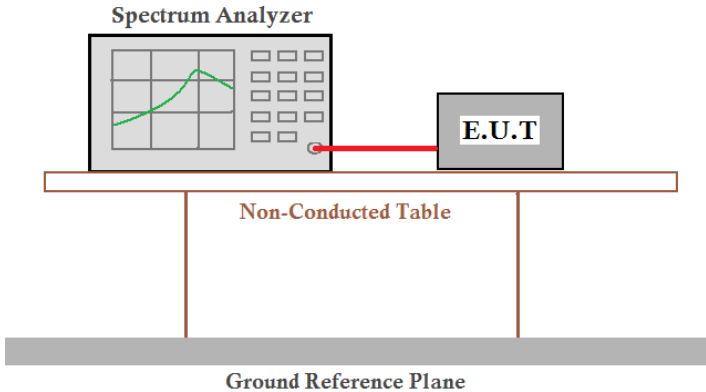
## Middle channel



**Tx Channel**  
Bandwidth 40 MHz Power 6.47 dBm

## Highest channel

## 6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	>500kHz
Test setup:	
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

### Measurement Data

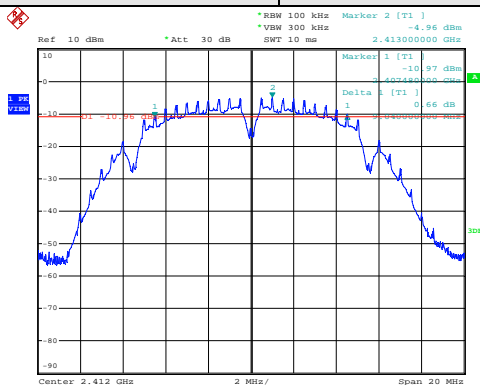
Test CH	6dB Occupy Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	9.04	16.50	17.70	35.42	>500	Pass
Middle	9.04	16.50	17.70	35.86		
Highest	9.04	16.40	17.70	35.64		

Test CH	99dB Occupy Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	11.98	16.63	17.74	36.04	N/A	N/A
Middle	11.90	16.58	17.74	36.04		
Highest	11.98	16.58	17.79	36.04		

Test plot as follows:

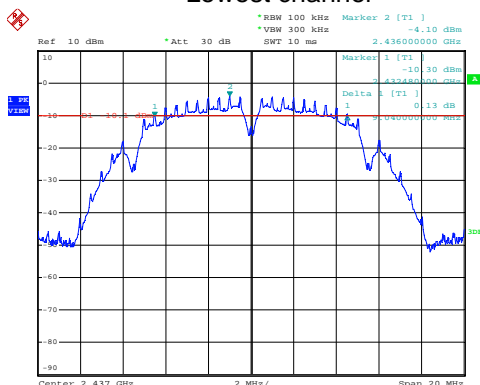
Test mode:6dB BW

802.11b



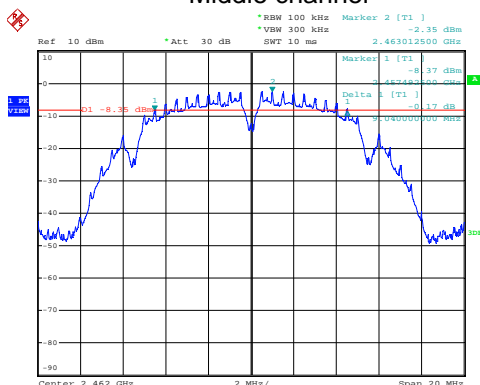
REMOTE HIGH  
Date: 1.JUN.2013 15:53:40

### Lowest channel



REMOTE HIGH  
Date: 1.JUN.2013 15:52:24

### Middle channel

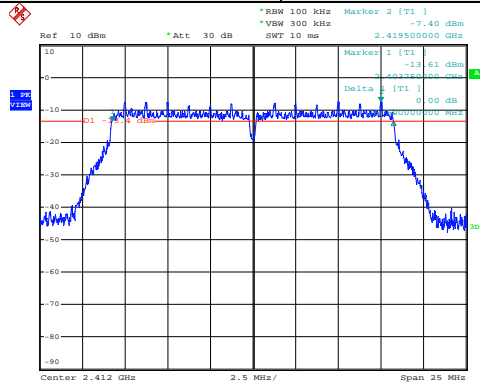


REMOTE HIGH  
Date: 1.JUN.2013 15:50:47

### Highest channel

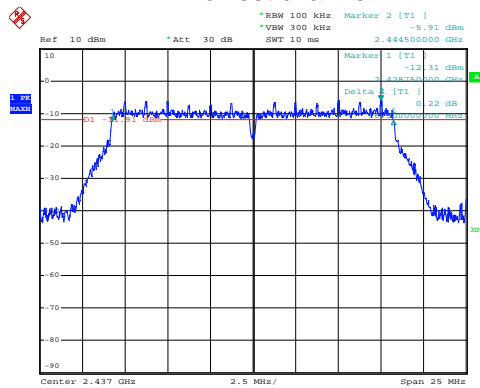
Test mode:6dB BW

802.11g



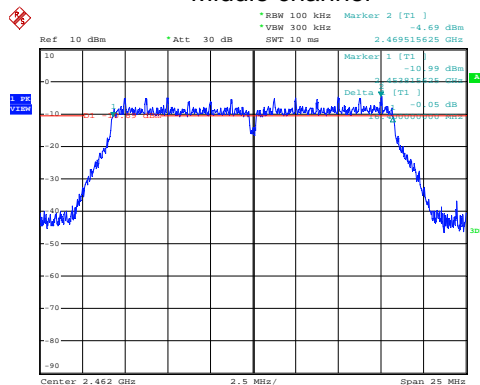
REMOTE HIGH  
Date: 1.JUN.2013 15:45:03

## Lowest channel



REMOTE HIGH  
Date: 1.JUN.2013 15:43:31

## Middle channel

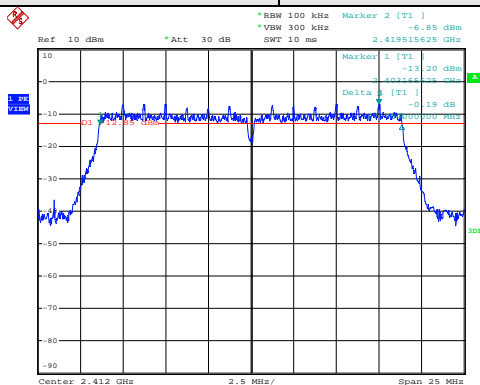


REMOTE HIGH  
Date: 1.JUN.2013 15:48:11

## Highest channel

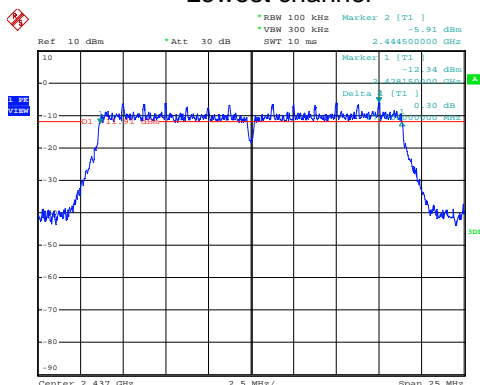
Test mode:6dB BW

802.11n(H20)



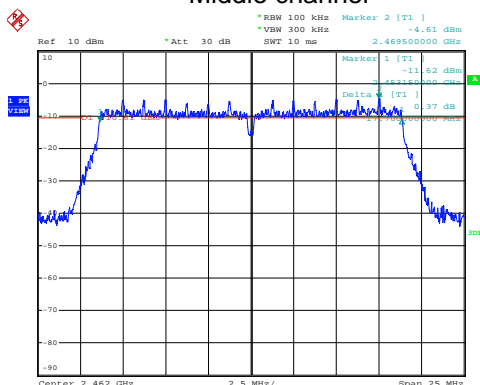
REMOTE HIGH  
Date: 1.JUN.2013 15:56:10

### Lowest channel



REMOTE HIGH  
Date: 1.JUN.2013 15:57:36

### Middle channel

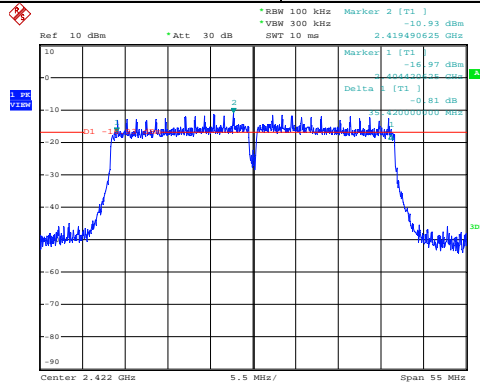


REMOTE HIGH  
Date: 1.JUN.2013 15:59:06

### Highest channel

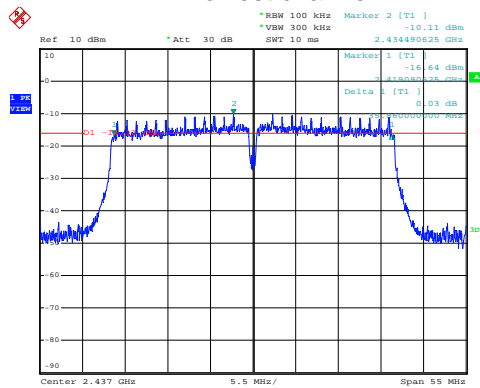
Test mode:6dB BW

802.11n(H40)



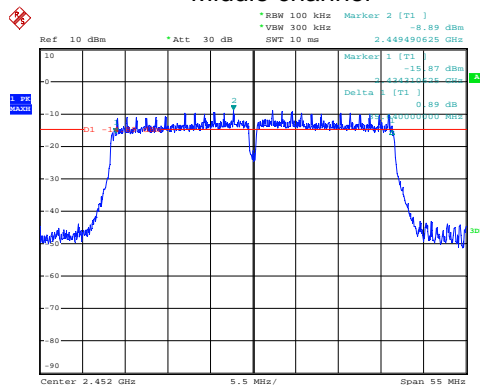
REMOTE HIGH  
Date: 1.JUN.2013 16:01:26

### Lowest channel



REMOTE HIGH  
Date: 1.JUN.2013 16:02:51

### Middle channel

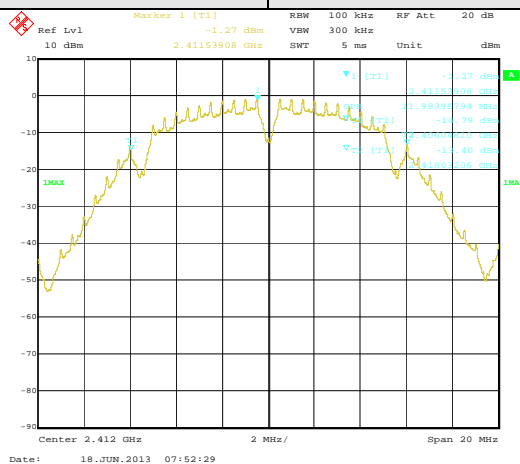


REMOTE HIGH  
Date: 1.JUN.2013 16:04:05

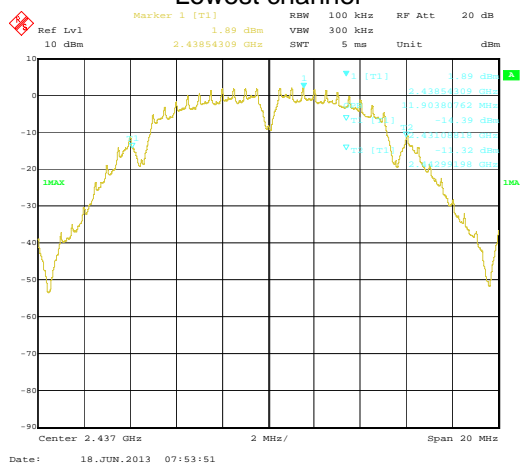
### Highest channel

Test mode:99dB BW

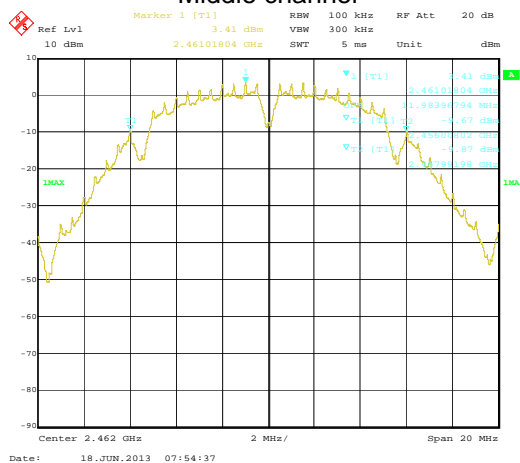
802.11b



### Lowest channel



### Middle channel

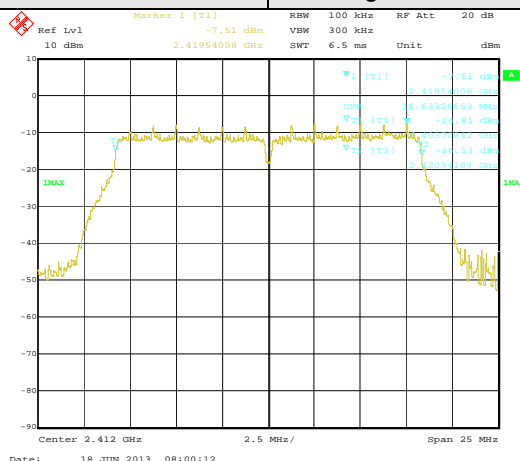


### Highest channel

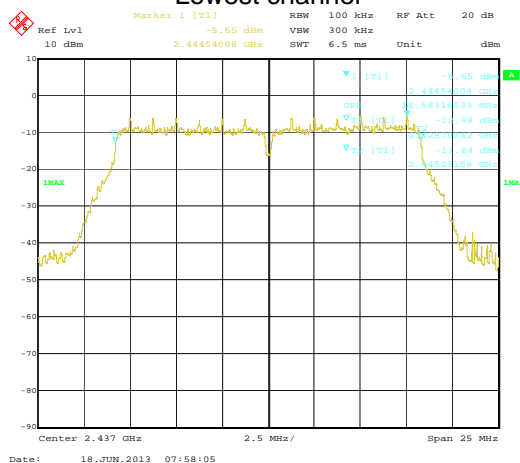


Test mode: 26dB BW

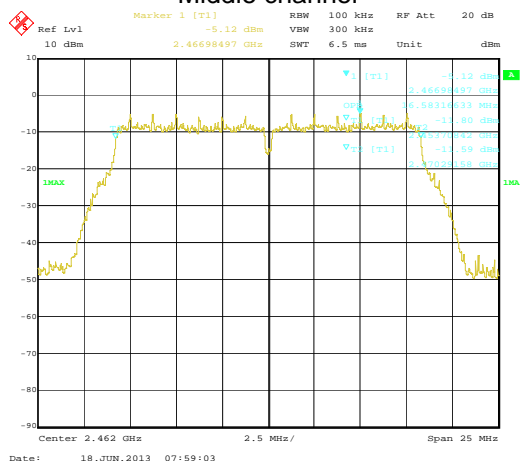
802.11g



### Lowest channel



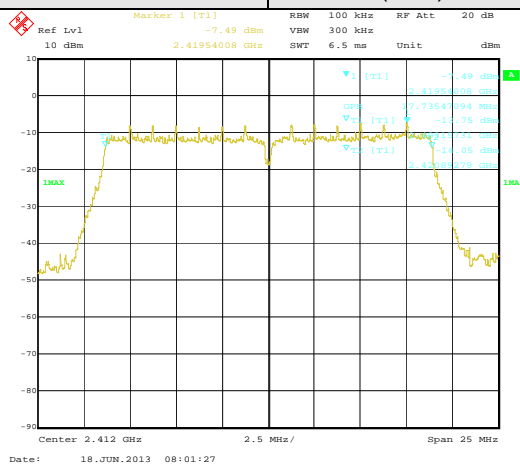
### Middle channel



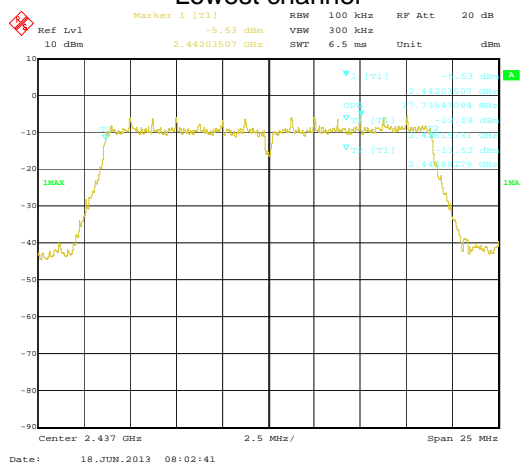
### Highest channel

Test mode: 26dB BW

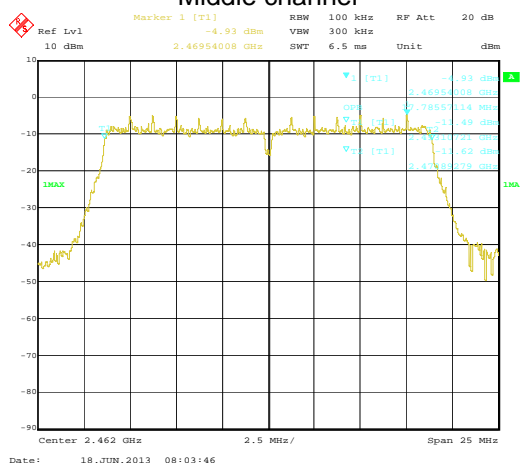
802.11n(H20)



Lowest channel



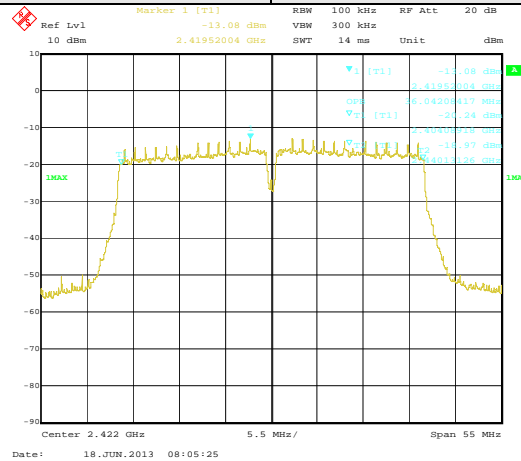
Middle channel



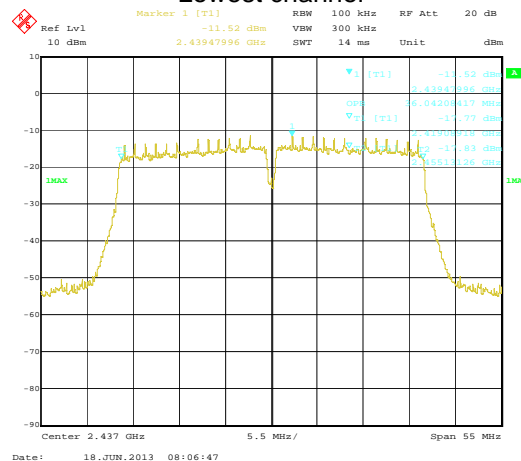
Highest channel

Test mode: 26dB BW

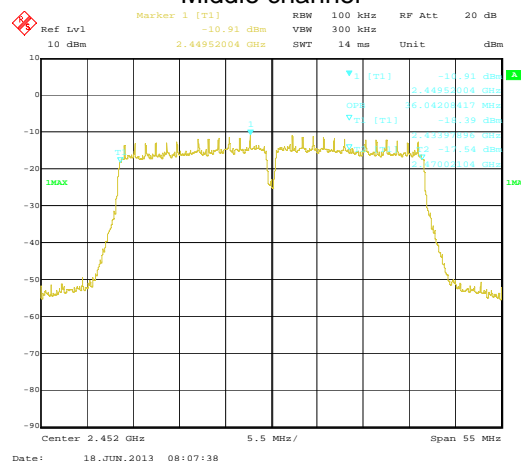
802.11n(H40)



### Lowest channel

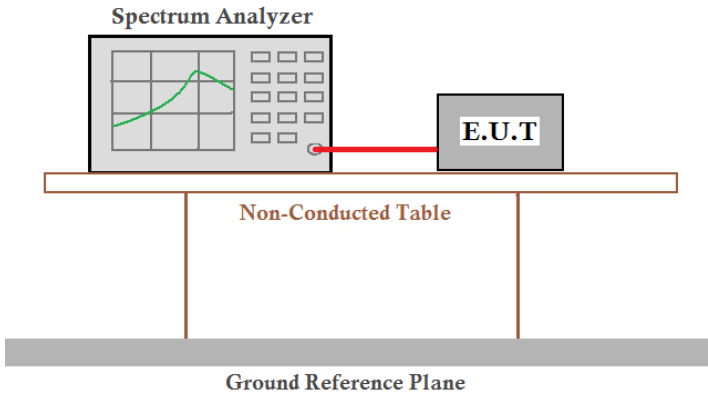


### Middle channel



### Highest channel

## 6.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

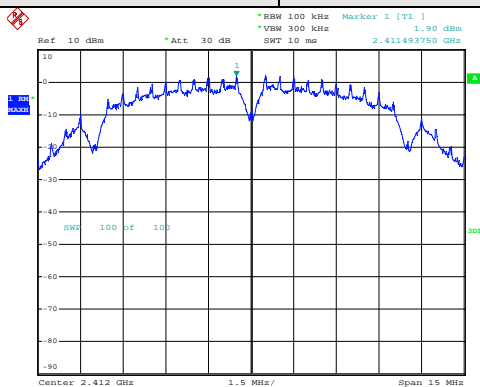
### Measurement Data

Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	1.90	-2.68	-2.99	-9.69	8.00	Pass
Middle	1.72	-2.42	-3.25	-9.57		
Highest	2.89	-2.78	-2.78	-9.57		

Test plot as follows:

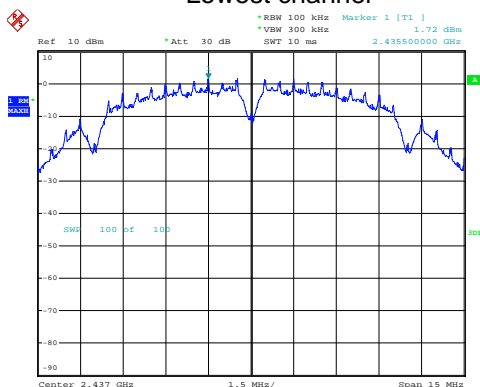
Test mode:

802.11b



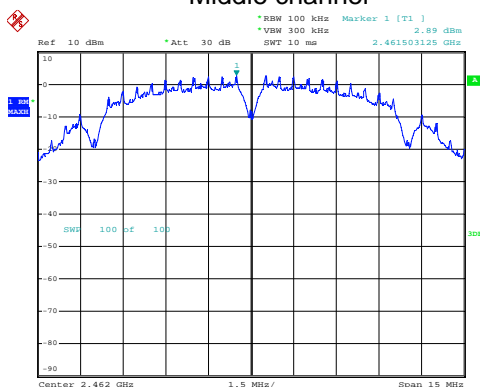
REMOTE HIGH  
Date: 1.JUN.2013 16:56:24

### Lowest channel



REMOTE HIGH  
Date: 1.JUN.2013 16:55:54

### Middle channel

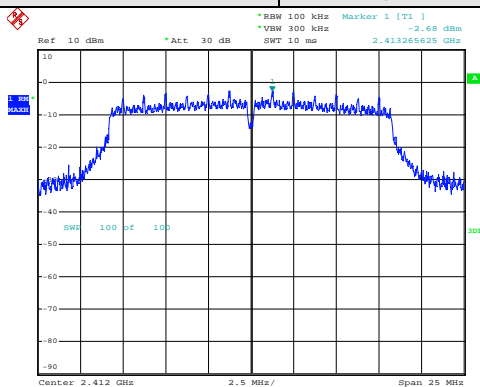


REMOTE HIGH  
Date: 1.JUN.2013 16:57:04

### Highest channel

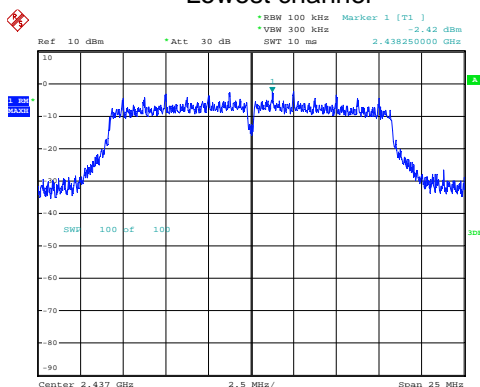
Test mode:

802.11g



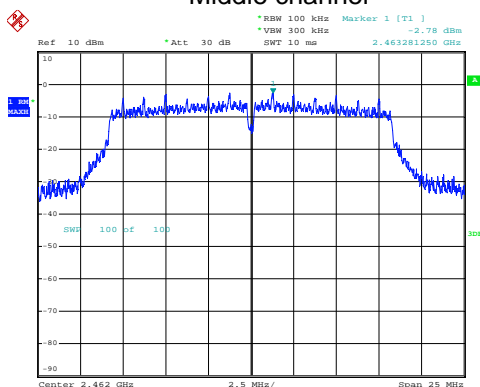
REMOTE HIGH  
Date: 1.JUN.2013 16:54:14

### Lowest channel



REMOTE HIGH  
Date: 1.JUN.2013 16:51:41

### Middle channel

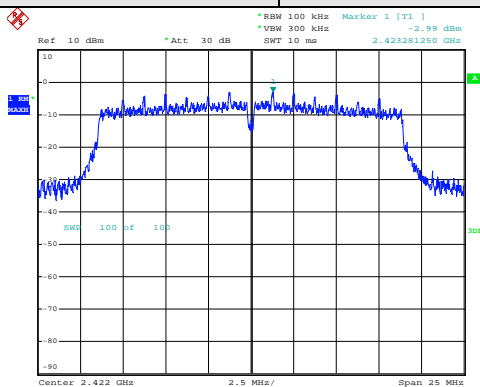


REMOTE HIGH  
Date: 1.JUN.2013 16:51:05

### Highest channel

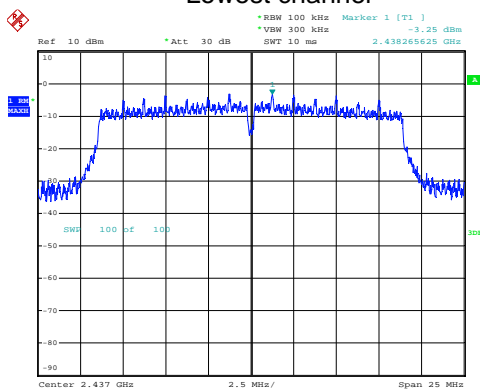
Test mode:

802.11n(H20)



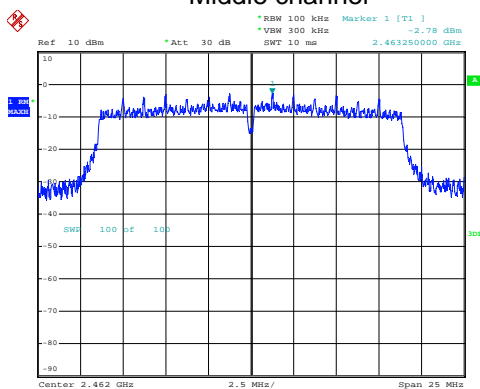
REMOTE HIGH  
Date: 1.JUN.2013 16:49:01

### Lowest channel



REMOTE HIGH  
Date: 1.JUN.2013 16:49:34

### Middle channel

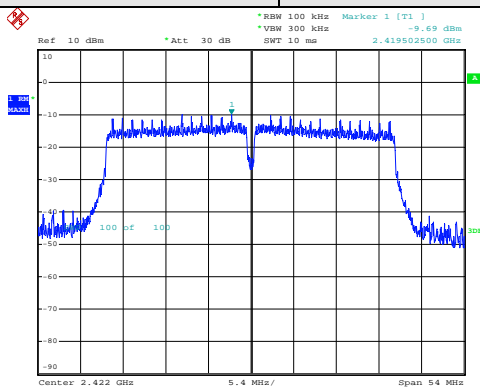


REMOTE HIGH  
Date: 1.JUN.2013 16:50:18

### Highest channel

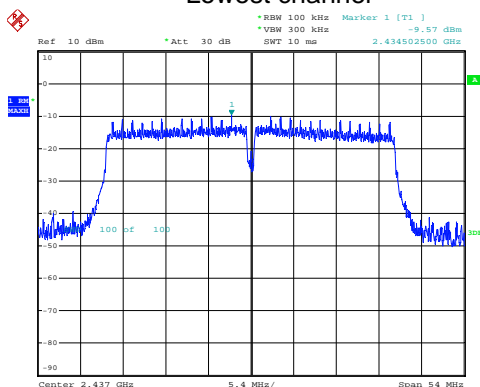
Test mode:

802.11n(H40)



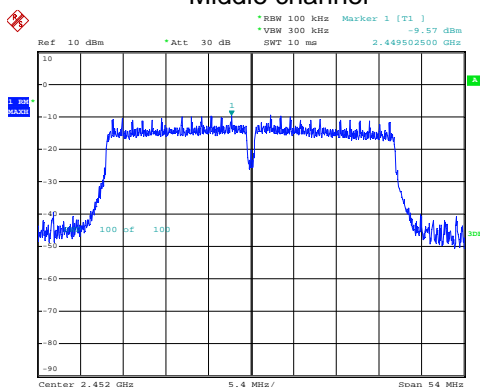
REMOTE HIGH  
Date: 1.JUN.2013 16:47:56

### Lowest channel



REMOTE HIGH  
Date: 1.JUN.2013 16:47:13

### Middle channel



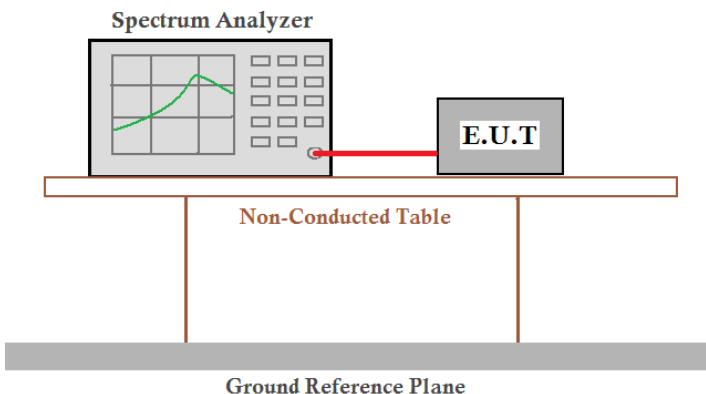
REMOTE HIGH  
Date: 1.JUN.2013 16:46:30

### Highest channel



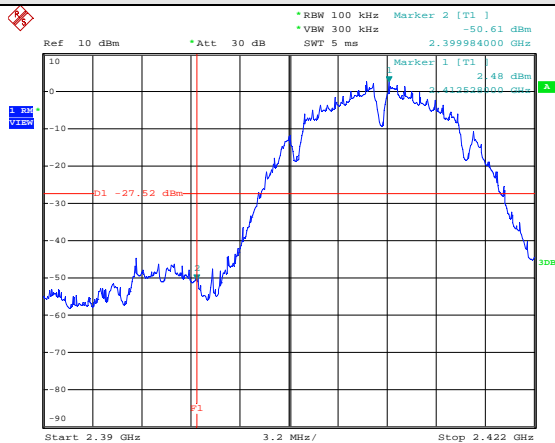
## 6.6 Band Edge

### 6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 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.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

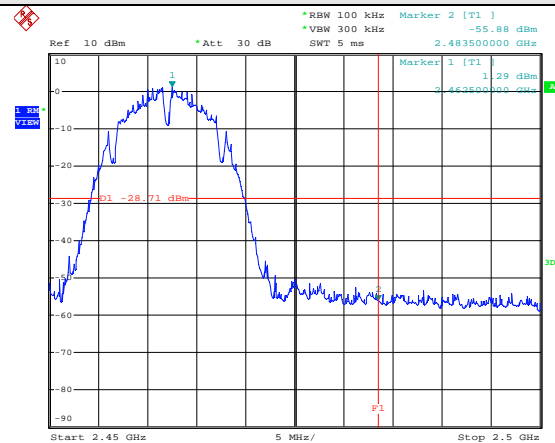
Test plot as follows:

Test mode: 802.11b



Date: 18.JUN.2013 11:46:23

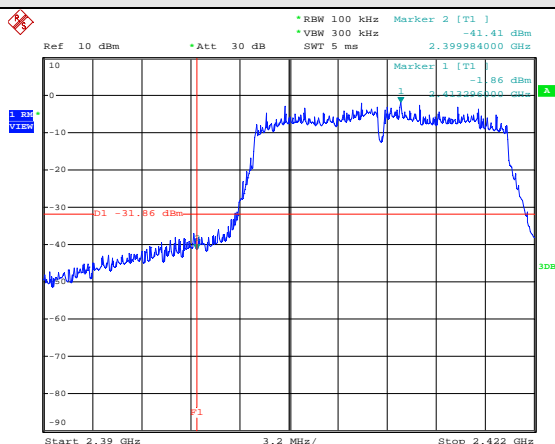
Lowest channel



Date: 18.JUN.2013 11:44:50

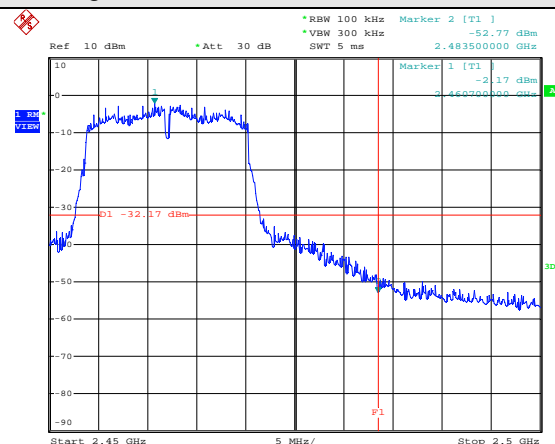
Highest channel

Test mode: 802.11g



Date: 18.JUN.2013 11:54:16

Lowest channel

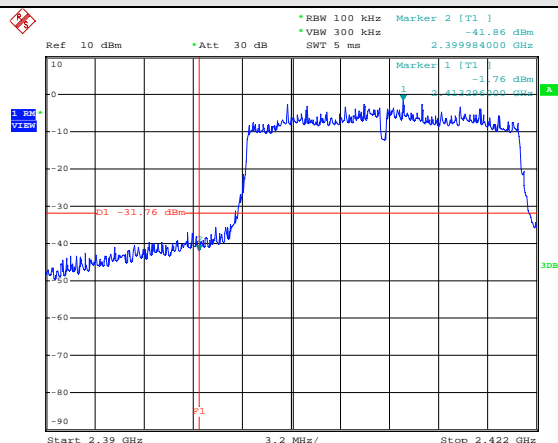


Date: 18.JUN.2013 11:42:53

Highest channel

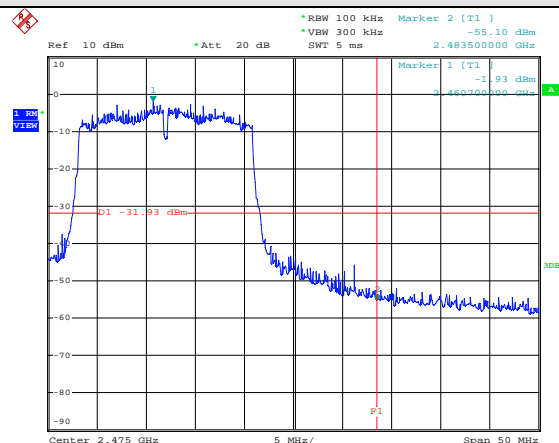
Test mode:

802.11n(H20)



Date: 18.JUN.2013 11:54:58

Lowest channel

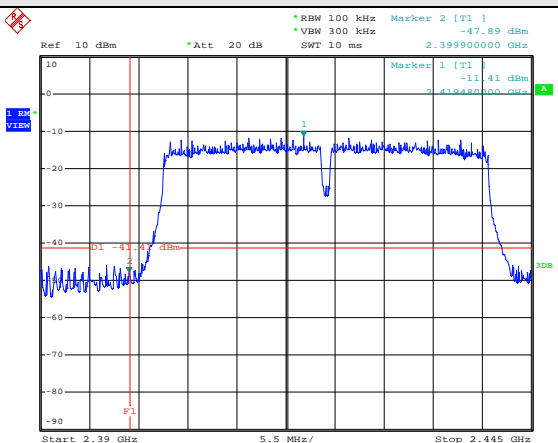


Date: 18.JUN.2013 15:00:07

Highest channel

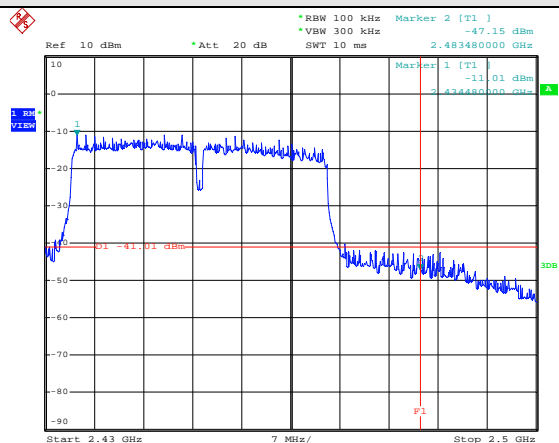
Test mode:

802.11n(H40)



Date: 18.JUN.2013 14:32:23

Lowest channel



Date: 18.JUN.2013 14:34:18

Highest channel

## 6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205																		
Test Method:	ANSI C63.4: 2003																		
Test Frequency Range:	2.3GHz to 2.5GHz																		
Test site:	Measurement Distance: 3m																		
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr></table>					Frequency	Detector	RBW	VBW	Remark	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value
Frequency	Detector	RBW	VBW	Remark															
Above 1GHz	Peak	1MHz	3MHz	Peak Value															
	Peak	1MHz	10Hz	Average Value															
Limit:	<table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td rowspan="2">Above 1GHz</td><td>54.00</td><td>Average Value</td></tr><tr><td>74.00</td><td>Peak Value</td></tr></table>					Frequency	Limit (dBuV/m @3m)	Remark	Above 1GHz	54.00	Average Value	74.00	Peak Value						
Frequency	Limit (dBuV/m @3m)	Remark																	
Above 1GHz	54.00	Average Value																	
	74.00	Peak Value																	
Test Procedure:	<div><div>1.</div><div>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div></div> <div><div>2.</div><div>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div></div> <div><div>3.</div><div>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div></div> <div><div>4.</div><div>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div></div> <div><div>5.</div><div>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div></div> <div><div>6.</div><div>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div></div>																		
Test setup:	<div><div><div><div><div>EUT</div><div>Turn Table</div></div><div><div>0.8m</div><div>3m</div></div></div><div><div>Antenna Tower</div><div>Horn Antenna</div><div>Spectrum Analyzer</div><div>Amplifier</div></div></div><div><div>4m</div><div>1m</div></div></div>																		
Test Instruments:	Refer to section 5.6 for details																		
Test mode:	Refer to section 5.3 for details																		
Test results:	Passed																		

### 802.11b

Test channel:		Lowest			Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	24.21	27.58	5.67	0.00	57.46	74.00	-16.54	Horizontal
2390.00	23.68	27.58	5.67	0.00	56.93	74.00	-17.07	Vertical

Test channel:		Lowest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	16.40	27.58	5.67	0.00	49.65	54.00	-4.35	Horizontal
2390.00	16.96	27.58	5.67	0.00	50.21	54.00	-3.79	Vertical

Test channel:		Highest			Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	24.31	27.52	5.70	0.00	57.53	74.00	-16.47	Horizontal
2483.50	23.99	27.52	5.70	0.00	57.21	74.00	-16.79	Vertical

Test channel:		Highest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	15.97	27.52	5.70	0.00	49.19	54.00	-4.81	Horizontal
2483.50	16.35	27.52	5.70	0.00	49.57	54.00	-4.43	Vertical

802.11g

Test channel:		Lowest			Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	23.51	27.58	5.67	0.00	56.76	74.00	-17.24	Horizontal
2390.00	23.95	27.58	5.67	0.00	57.20	74.00	-16.80	Vertical

Test channel:		Lowest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	16.76	27.58	5.67	0.00	50.01	54.00	-3.99	Horizontal
2390.00	16.19	27.58	5.67	0.00	49.44	54.00	-4.56	Vertical

Test channel:		Highest			Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	23.63	27.52	5.70	0.00	56.85	74.00	-17.15	Horizontal
2483.50	24.06	27.52	5.70	0.00	57.28	74.00	-16.72	Vertical

Test channel:		Highest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	15.53	27.52	5.70	0.00	48.75	54.00	-5.25	Horizontal
2483.50	15.62	27.52	5.70	0.00	48.84	54.00	-5.16	Vertical

802.11n (H20)

Test channel:		Lowest			Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	24.28	27.58	5.67	0.00	57.53	74.00	-16.47	Horizontal
2390.00	24.68	27.58	5.67	0.00	57.93	74.00	-16.07	Vertical

Test channel:		Lowest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	16.96	27.58	5.67	0.00	50.21	54.00	-3.79	Horizontal
2390.00	16.59	27.58	5.67	0.00	49.84	54.00	-4.16	Vertical

Test channel:		Highest			Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	25.27	27.52	5.70	0.00	58.49	74.00	-15.51	Horizontal
2483.50	25.28	27.52	5.70	0.00	58.50	74.00	-15.50	Vertical

Test channel:		Highest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	15.92	27.52	5.70	0.00	49.14	54.00	-4.86	Horizontal
2483.50	16.30	27.52	5.70	0.00	49.52	54.00	-4.48	Vertical

### 802.11n (H40)

Test channel:		Lowest			Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	24.44	27.58	5.67	0.00	57.69	74.00	-16.31	Horizontal
2390.00	22.91	27.58	5.67	0.00	56.16	74.00	-17.84	Vertical

Test channel:		Lowest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	16.33	27.58	5.67	0.00	49.58	54.00	-4.42	Horizontal
2390.08	16.61	27.58	5.67	0.00	49.86	54.00	-4.14	Vertical

Test channel:		Highest			Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	24.58	27.52	5.70	0.00	57.80	74.00	-16.20	Horizontal
2483.50	23.79	27.52	5.70	0.00	57.01	74.00	-16.99	Vertical

Test channel:		Highest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	15.98	27.52	5.70	0.00	49.20	54.00	-4.80	Horizontal
2483.50	16.18	27.52	5.70	0.00	49.40	54.00	-4.60	Vertical

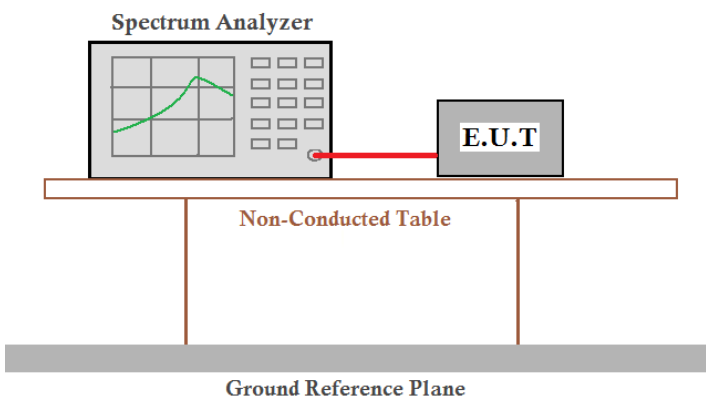
#### Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.



## 6.7 Spurious Emission

### 6.7.1 Conducted Emission Method

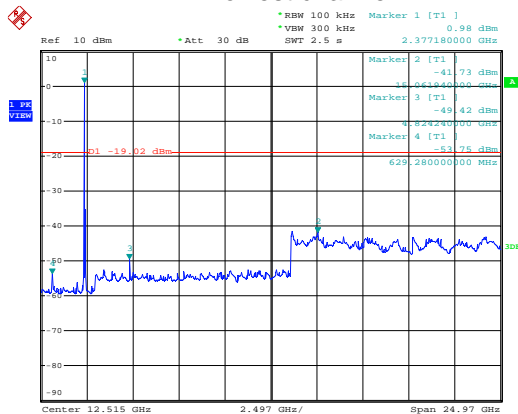
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:

Test mode:

802.11b

### Lowest channel

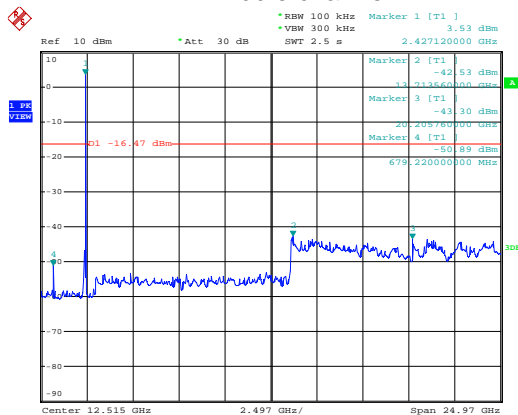


REMOTE HIGH

Date: 3.JUN.2013 14:46:56

### 30MHz~25GHz

### Middle channel

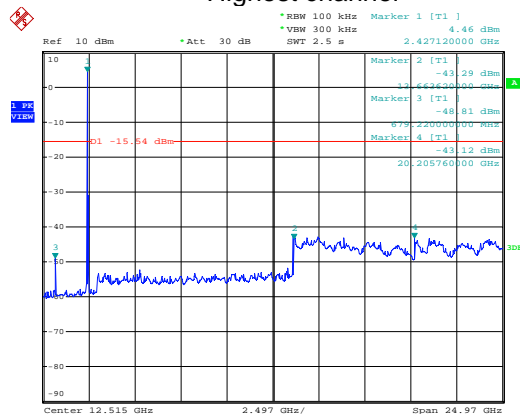


REMOTE HIGH

Date: 3.JUN.2013 14:47:42

### 30MHz~25GHz

### Highest channel



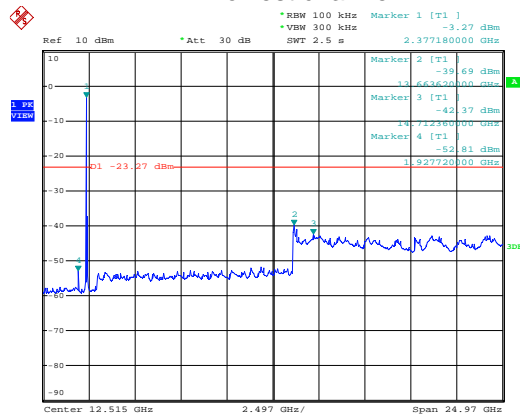
REMOTE HIGH  
 Date: 3.JUN.2013 14:48:42

30MHz~25GHz

Test mode:

802.11g

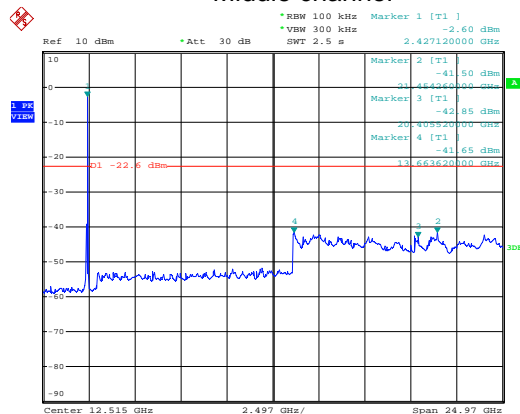
### Lowest channel



REMOTE HIGH  
 Date: 3.JUN.2013 14:45:25

30MHz~25GHz

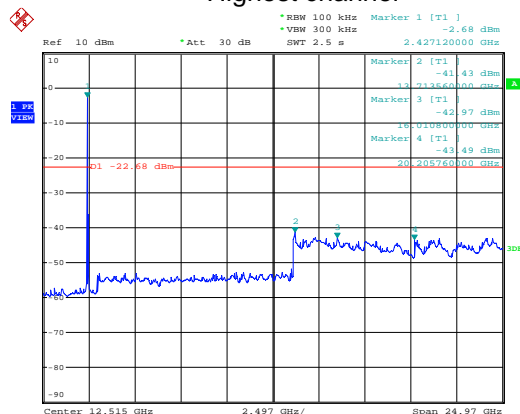
### Middle channel



REMOTE HIGH  
Date: 3.JUN.2013 14:43:17

### 30MHz~25GHz

### Highest channel



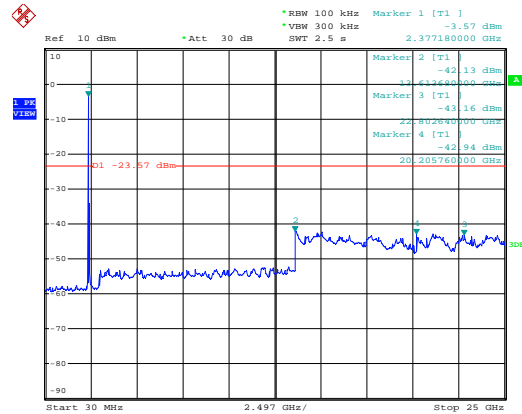
REMOTE HIGH  
Date: 3.JUN.2013 14:40:09

### 30MHz~25GHz

Test mode:

802.11n(H20)

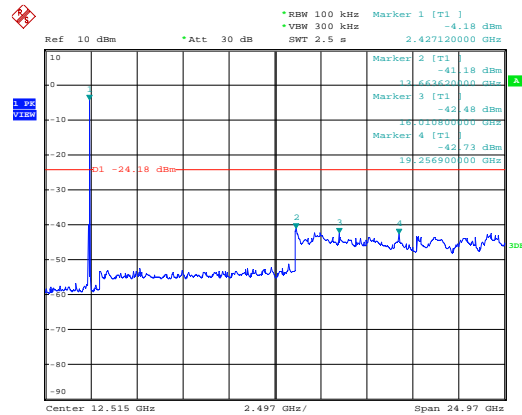
## Lowest channel



REMOTE HIGH  
Date: 3.JUN.2013 14:34:10

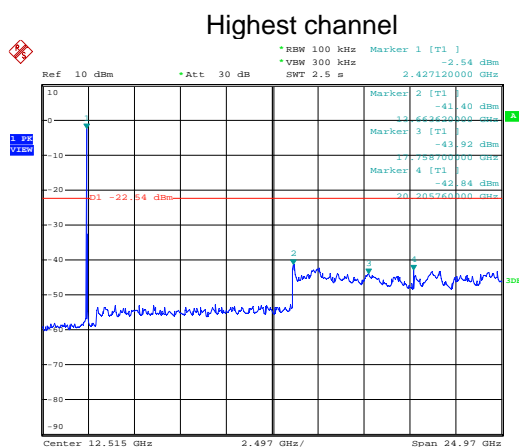
30MHz~25GHz

## Middle channel



REMOTE HIGH  
Date: 3.JUN.2013 14:36:28

30MHz~25GHz

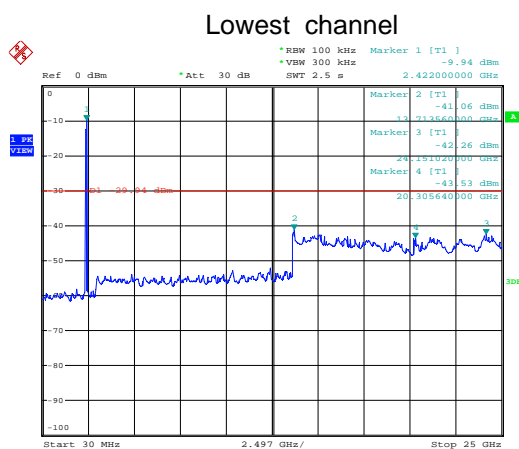


REMOTE HIGH  
Date: 3.JUN.2013 14:38:08

30MHz~25GHz

Test mode:

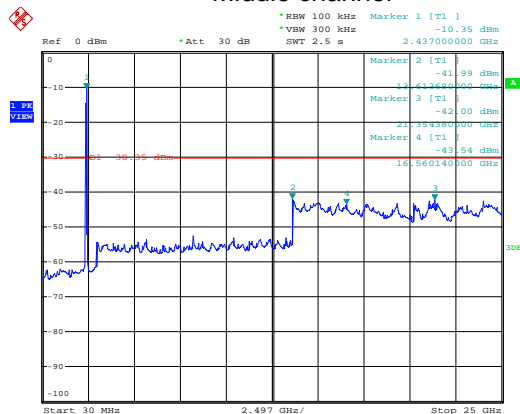
802.11n(H40)



REMOTE HIGH  
Date: 3.JUN.2013 14:28:28

30MHz~25GHz

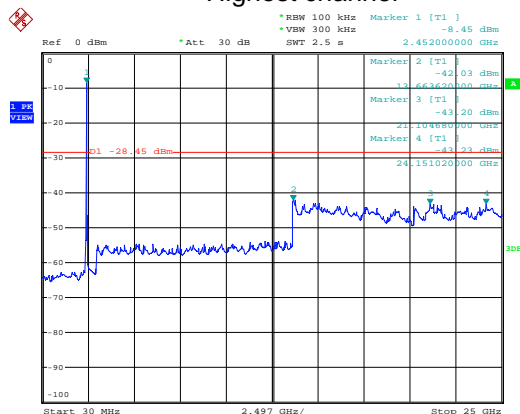
### Middle channel



REMOTE HIGH  
Date: 3.JUN.2013 14:30:20

### 30MHz~25GHz

### Highest channel



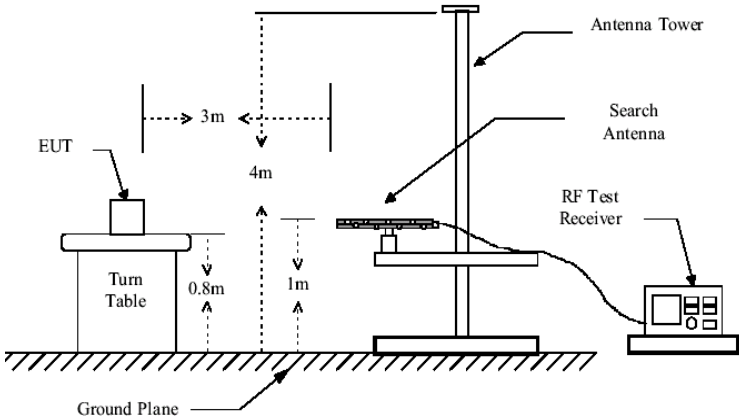
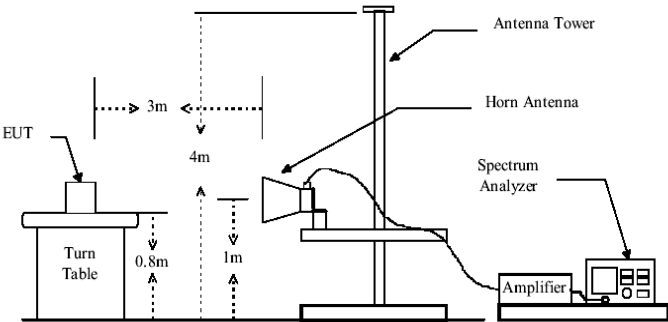
REMOTE HIGH  
Date: 3.JUN.2013 14:31:23

### 30MHz~25GHz

## 6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	9KHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:					
	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	10Hz	Average Value	
Limit:					
	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz	54.0		Average Value	
74.0		Peak Value			
Test Procedure:	<div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div>				



<p>Test setup:</p>	<p>Below 1GHz</p>  <p>Above 1GHz</p> 
<p>Test Instruments:</p>	<p>Refer to section 5.6 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Passed</p>
<p>Remark:</p>	<ol style="list-style-type: none"> <li>1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.</li> <li>2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.</li> </ol>

**Below 1GHz**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
32.86	46.77	12.31	0.91	26.58	33.41	40.00	-6.59	Vertical
38.89	46.21	13.30	1.18	27.16	33.53	40.00	-6.47	Vertical
52.03	51.42	13.17	1.29	28.48	37.40	40.00	-2.60	Vertical
192.42	50.66	10.56	2.82	29.82	34.22	43.50	-9.28	Vertical
578.67	36.46	18.09	3.92	30.55	27.92	46.00	-18.08	Vertical
52.03	37.84	13.17	1.29	28.48	23.82	40.00	-16.18	Horizontal
103.81	40.35	12.78	1.99	30.01	25.11	43.50	-18.39	Horizontal
192.42	49.63	10.56	2.82	29.82	33.19	43.50	-10.31	Horizontal
385.28	40.11	14.73	3.09	29.84	28.09	46.00	-17.91	Horizontal

### Above 1GHz

Test mode: 802.11b			Test channel:		Lowest		Remark:	Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	46.38	31.54	8.92	40.22	46.62	74.00	-27.38	Vertical
7236.00	47.07	36.50	10.62	41.22	52.97	74.00	-21.03	Vertical
9648.00	*					74.00		Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	46.61	31.54	8.92	40.22	46.85	74.00	-27.15	Horizontal
7236.00	49.00	36.50	10.62	41.22	54.90	74.00	-19.10	Horizontal
9648.00	*					74.00		Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Test mode: 802.11b			Test channel:		Lowest		Remark:	Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	35.57	31.54	8.92	40.22	35.81	54.00	-18.19	Vertical
7236.00	35.65	36.50	10.62	41.22	41.55	54.00	-12.45	Vertical
9648.00	*					54.00		Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	37.27	31.54	8.92	40.22	37.51	54.00	-16.49	Horizontal
7236.00	38.76	36.50	10.62	41.22	44.66	54.00	-9.34	Horizontal
9648.00	*					54.00		Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

#### Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11b		Test channel:	Middle		Remark:	Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	47.32	31.57	8.98	40.15	47.72	74.00	-26.28	Vertical
7311.00	46.90	36.48	10.68	41.16	52.90	74.00	-21.10	Vertical
9748.00	*					74.00		Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	46.30	31.57	8.98	40.15	46.70	74.00	-27.30	Horizontal
7311.00	46.72	36.48	10.68	41.16	52.72	74.00	-21.28	Horizontal
9748.00	*					74.00		Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Test mode:	802.11b		Test channel:	Middle		Remark:	Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	35.45	31.57	8.98	40.15	35.85	54.00	-18.15	Vertical
7311.00	37.98	36.48	10.68	41.16	43.98	54.00	-10.02	Vertical
9748.00	*					54.00		Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	35.08	31.57	8.98	40.15	35.48	54.00	-18.52	Horizontal
7311.00	35.87	36.48	10.68	41.16	41.87	54.00	-12.13	Horizontal
9748.00	*					54.00		Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11b		Test channel:	Highest		Remark:	Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.72	31.61	9.04	40.08	46.29	74.00	-27.71	Vertical
7386.00	48.23	36.52	10.75	41.09	54.41	74.00	-19.59	Vertical
9848.00	*					74.00		Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	45.83	31.61	9.04	40.08	46.40	74.00	-27.60	Horizontal
7386.00	46.65	36.52	10.75	41.09	52.83	74.00	-21.17	Horizontal
9848.00	*					74.00		Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Test mode:	802.11b		Test channel:	Highest		Remark:	Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.28	31.61	9.04	40.08	35.85	54.00	-18.15	Vertical
7386.00	38.51	36.52	10.75	41.09	44.69	54.00	-9.31	Vertical
9848.00	*					54.00		Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4920.75	35.94	31.61	9.04	40.08	36.51	54.00	-17.49	Horizontal
7386.00	37.49	36.52	10.75	41.09	43.67	54.00	-10.33	Horizontal
9848.00	*					54.00		Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

**Remark:**

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“\*”*, means this data is the too weak instrument of signal is unable to test.
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Test mode:	802.11g		Test channel:	Lowest		Remark:		Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	47.04	31.54	8.92	40.22	47.28	74.00	-26.72	Vertical
7236.00	47.74	36.50	10.62	41.22	53.64	74.00	-20.36	Vertical
9648.00	*					74.00		Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	46.51	31.54	8.92	40.22	46.75	74.00	-27.25	Horizontal
7236.00	47.66	36.50	10.62	41.22	53.56	74.00	-20.44	Horizontal
9648.00	*					74.00		Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Test mode:	802.11g		Test channel:	Lowest		Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	38.31	31.54	8.92	40.22	38.55	54.00	-15.45	Vertical
7236.00	38.30	36.50	10.62	41.22	44.20	54.00	-9.80	Vertical
9648.00	*					54.00		Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	44.27	31.54	8.92	40.22	44.51	54.00	-9.49	Horizontal
7236.00	36.85	36.50	10.62	41.22	42.75	54.00	-11.25	Horizontal
9648.00	*					54.00		Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

**Remark:**

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“\*” means this data is too weak, the instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not shown in the test report.*

Test mode:	802.11g		Test channel:	Middle		Remark:		Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	46.84	31.57	8.98	40.15	47.24	74.00	-26.76	Vertical
7311.00	46.95	36.48	10.68	41.16	52.95	74.00	-21.05	Vertical
9748.00	*					74.00		Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	45.65	31.57	8.98	40.15	46.05	74.00	-27.95	Horizontal
7311.00	46.85	36.48	10.68	41.16	52.85	74.00	-21.15	Horizontal
9748.00	*					74.00		Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Test mode:	802.11g		Test channel:	Middle		Remark:		Average
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	36.44	31.57	8.98	40.15	36.84	54.00	-17.16	Vertical
7311.00	37.57	36.48	10.68	41.16	43.57	54.00	-10.43	Vertical
9748.00	*					54.00		Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	34.18	31.57	8.98	40.15	34.58	54.00	-19.42	Horizontal
7311.00	37.64	36.48	10.68	41.16	43.64	54.00	-10.36	Horizontal
9748.00	*					54.00		Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11g		Test channel:	Highest		Remark:	Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	46.43	31.61	9.04	40.08	47.00	74.00	-27.00	Vertical
7386.00	46.38	36.52	10.75	41.09	52.56	74.00	-21.44	Vertical
9848.00	*					74.00		Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	46.13	31.61	9.04	40.08	46.70	74.00	-27.30	Horizontal
7386.00	46.64	36.52	10.75	41.09	52.82	74.00	-21.18	Horizontal
9848.00	*					74.00		Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Test mode:	802.11g		Test channel:	Highest		Remark:	Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.78	31.61	9.04	40.08	37.35	54.00	-16.65	Vertical
7386.00	36.40	36.52	10.75	41.09	42.58	54.00	-11.42	Vertical
9848.00	*					54.00		Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.87	31.61	9.04	40.08	35.44	54.00	-18.56	Horizontal
7386.00	37.51	36.52	10.75	41.09	43.69	54.00	-10.31	Horizontal
9848.00	*					54.00		Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

**Remark:**

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“\*” means this data is too weak, the instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not shown in the test report.*



Test mode:	802.11n(H20)		Test channel:	Lowest		Remark:	Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	45.28	31.54	8.92	40.22	45.52	74.00	-28.48	Vertical
7236.00	46.28	36.49	10.62	41.22	52.17	74.00	-21.83	Vertical
9648.00	*					74.00		Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	45.08	31.55	8.92	40.22	45.33	74.00	-28.67	Horizontal
7236.00	46.23	36.49	10.62	41.22	52.12	74.00	-21.88	Horizontal
9648.00	*					74.00		Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Test mode:	802.11n(H20)		Test channel:	Lowest		Remark:	Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	35.96	31.54	8.92	40.22	36.20	54.00	-17.80	Vertical
7236.00	34.70	36.50	10.62	41.22	40.60	54.00	-13.40	Vertical
9648.00	*					54.00		Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	36.06	31.54	8.92	40.22	36.30	54.00	-17.70	Horizontal
7236.00	37.75	36.50	10.62	41.22	43.65	54.00	-10.35	Horizontal
9648.00	*					54.00		Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

**Remark:**

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“\*” means this data is too weak, the instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not shown in the test report.*

Test mode:	802.11n(H20)		Test channel:	Middle		Remark:	Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	46.59	31.57	8.98	40.15	46.99	74.00	-27.01	Vertical
7311.00	47.80	36.48	10.68	41.16	53.80	74.00	-20.20	Vertical
9748.00	*					74.00		Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	43.45	31.57	8.98	40.15	43.85	74.00	-30.15	Horizontal
7311.00	45.41	36.48	10.68	41.16	51.41	74.00	-22.59	Horizontal
9748.00	*					74.00		Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Test mode:	802.11n(H20)		Test channel:	Middle		Remark:	Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	35.44	31.57	8.98	40.15	35.84	54.00	-18.16	Vertical
7311.00	36.71	36.48	10.68	41.16	42.71	54.00	-11.29	Vertical
9748.00	*					54.00		Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	33.14	31.57	8.98	40.15	33.54	54.00	-20.46	Horizontal
7311.00	36.99	36.48	10.68	41.16	42.99	54.00	-11.01	Horizontal
9748.00	*					54.00		Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

**Remark:**

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“\*” means this data is too weak instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Test mode:		802.11n(H20)		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4924.00	46.09	31.61	9.04	40.08	46.66	74.00	-27.34	Vertical			
7386.00	46.36	36.52	10.75	41.09	52.54	74.00	-21.46	Vertical			
9848.00	*					74.00		Vertical			
12310.00	*					74.00		Vertical			
14772.00	*					74.00		Vertical			
17234.00	*					74.00		Vertical			
4924.00	46.13	31.61	9.04	40.08	46.70	74.00	-27.30	Horizontal			
7386.00	48.05	36.52	10.75	41.09	54.23	74.00	-19.77	Horizontal			
9848.00	*					74.00		Horizontal			
12310.00	*					74.00		Horizontal			
14772.00	*					74.00		Horizontal			
17234.00	*					74.00		Horizontal			

Test mode:		802.11n(H20)		Test channel:		Highest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4924.00	35.07	31.61	9.04	40.08	35.64	54.00	-18.36	Vertical			
7386.00	35.37	36.52	10.75	41.09	41.55	54.00	-12.45	Vertical			
9848.00	*					54		Vertical			
12310.00	*					54		Vertical			
14772.00	*					54		Vertical			
17234.00	*					54		Vertical			
4924.00	35.69	31.61	9.04	40.08	36.26	54.00	-17.74	Horizontal			
7386.00	39.77	36.52	10.75	41.09	45.95	54.00	-8.05	Horizontal			
9848.00	*					54		Horizontal			
12310.00	*					54		Horizontal			
14772.00	*					54		Horizontal			
17234.00	*					54		Horizontal			

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11n(H40)		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4844.00	45.21	31.55	8.94	40.19	45.51	74.00	-28.49	Vertical			
7266.00	46.19	36.49	10.63	41.20	52.11	74.00	-21.89	Vertical			
9688.00	*					74.00		Vertical			
12110.00	*					74.00		Vertical			
14532.00	*					74.00		Vertical			
16954.00	*					74.00		Vertical			
4844.00	44.54	31.55	8.94	40.19	44.84	74.00	-29.16	Horizontal			
7266.00	46.42	36.49	10.63	41.20	52.34	74.00	-21.66	Horizontal			
9688.00	*					74.00		Horizontal			
12110.00	*					74.00		Horizontal			
14532.00	*					74.00		Horizontal			
16954.00	*					74.00		Horizontal			

Test mode:		802.11n(H40)		Test channel:		Lowest		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4844.00	34.35	31.55	8.94	40.19	34.65	54.00	-19.35	Vertical			
7266.00	35.45	36.49	10.65	41.19	41.40	54.00	-12.60	Vertical			
9688.00	*					54.00		Vertical			
12110.00	*					54.00		Vertical			
14532.00	*					54.00		Vertical			
16954.00	*					54.00		Vertical			
4844.00	34.18	31.55	8.94	40.19	34.48	54.00	-19.52	Horizontal			
7266.00	35.84	36.49	10.65	41.19	41.79	54.00	-12.21	Horizontal			
9688.00	*					54.00		Horizontal			
12110.00	*					54.00		Horizontal			
14532.00	*					54.00		Horizontal			
16954.00	*					54.00		Horizontal			

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11n(H40)		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874.00	44.97	31.57	8.98	40.15	45.37	74.00	-28.63	Vertical			
7311.00	46.04	36.48	10.68	41.16	52.04	74.00	-21.96	Vertical			
9748.00	*					74.00		Vertical			
12185.00	*					74.00		Vertical			
14622.00	*					74.00		Vertical			
17059.00	*					74.00		Vertical			
4874.00	45.34	31.57	8.98	40.15	45.74	74.00	-28.26	Horizontal			
7311.00	45.87	36.48	10.68	41.16	51.87	74.00	-22.13	Horizontal			
9748.00	*					74.00		Horizontal			
12185.00	*					74.00		Horizontal			
14622.00	*					74.00		Horizontal			
17059.00	*					74.00		Horizontal			

Test mode:		802.11n(H40)		Test channel:		Middle		Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4874.00	33.97	31.57	8.98	40.15	34.37	54.00	-19.63	Vertical			
7311.00	35.37	36.48	10.68	41.16	41.37	54.00	-12.63	Vertical			
9748.00	*					54.00		Vertical			
12185.00	*					54.00		Vertical			
14622.00	*					54.00		Vertical			
17059.00	*					54.00		Vertical			
4874.00	34.72	31.57	8.98	40.15	35.12	54.00	-18.88	Horizontal			
7311.00	34.95	36.48	10.68	41.16	40.95	54.00	-13.05	Horizontal			
9748.00	*					54.00		Horizontal			
12185.00	*					54.00		Horizontal			
14622.00	*					54.00		Horizontal			
17059.00	*					54.00		Horizontal			

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*” means this data is too weak; instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not shown in test report.

Test mode:		802.11n(H40)		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4904.00	45.02	31.59	9.00	40.12	45.49	74.00	-28.51	Vertical			
7356.00	46.56	36.49	10.72	41.12	52.65	74.00	-21.35	Vertical			
9808.00	*					74.00		Vertical			
12260.00	*					74.00		Vertical			
14712.00	*					74.00		Vertical			
17164.00	*					74.00		Vertical			
4904.00	45.43	31.59	9.00	40.12	45.90	74.00	-28.10	Horizontal			
7356.00	46.60	36.49	10.72	41.12	52.69	74.00	-21.31	Horizontal			
9808.00	*					74.00		Horizontal			
12260.00	*					74.00		Horizontal			
14712.00	*					74.00		Horizontal			
17164.00	*					74.00		Horizontal			

Test mode:		802.11n(H40)	Test channel:		Highest	Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4904.00	36.08	31.59	9.02	40.10	36.59	54.00	-17.41	Vertical	
7356.00	35.30	36.47	10.72	41.12	41.37	54.00	-12.63	Vertical	
9808.00	*					54.00		Vertical	
12260.00	*					54.00		Vertical	
14712.00	*					54.00		Vertical	
17164.00	*					54.00		Vertical	
4904.00	34.69	31.59	9.02	40.10	35.20	54.00	-18.80	Horizontal	
7356.00	35.24	36.47	10.72	41.12	41.31	54.00	-12.69	Horizontal	
9808.00	*					54.00		Horizontal	
12260.00	*					54.00		Horizontal	
14712.00	*					54.00		Horizontal	
17164.00	*					54.00		Horizontal	

**Remark:**

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *“\*” means this data is too weak; instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not shown in test report.*