

# FCC REPORT

**Applicant:** Shenzhen Awood Computer Technology Co., Ltd.

**Address of Applicant:** 8/F.Huichao technology Building, Jinhai Rd, Xixiang-Baoan District, Shenzhen, China

**Equipment Under Test (EUT)**

Product Name: Notebook Computer

Model No.: X1

**FCC ID:** 2AFLU-X1

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014

**Date of sample receipt:** July 20, 2015

**Date of Test:** July 21-30, 2015

**Date of report issued:** August 03, 2015

**Test Result :** PASS \*

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

Authorized Signature:

A circular logo for GTS (Global United Technology Services Co., Ltd.) is visible. The logo contains the text "GTS", "GLOBAL TESTING", and "GLOBAL UNITED TECHNOLOGY SERVICES CO., LTD.". Overlaid on the logo is a handwritten signature in black ink, which appears to read "Robinson Lo".

**Robinson Lo**

**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 GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2 Version

Version No.	Date	Description
00	August 03, 2015	Original

Prepared By:

*Sam. Gao*

Date:

August 03, 2015

Project Engineer

Check By:

*hank. yan*

Date:

August 03, 2015

Reviewer

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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
Channel 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.

### 4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	$\pm 4.34\text{dB}$	(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm 4.24\text{dB}$	(1)
Radiated Emission	1GHz ~ 26.5GHz	$\pm 4.68\text{dB}$	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	$\pm 3.45\text{dB}$	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.			

## 5 General Information

### 5.1 Client Information

Applicant:	Shenzhen Awood Computer Technology Co., Ltd.
Address of Applicant:	8/F.Huichao technology Building, Jinhai Rd, Xixiang-Baoan District, Shenzhen, China
Manufacturer:	Shenzhen Awood Computer Technology Co., Ltd.
Address of Manufacturer:	8/F.Huichao technology Building, Jinhai Rd, Xixiang-Baoan District, Shenzhen, China
Factory:	SHENZHEN IEZO ELECTRONIC TECHNOLOGIES CO., LTD.
Address of Factory:	102 Room for F Buliding 1 Floor, 3 Floor, 2 Floor for Eeast West, 4 Floor for East , 201 Room for E Buliding, New Wood Road 6th, New Wood Community, Pinghu Street, Longgang District, Shenzhen, China

### 5.2 General Description of EUT

Product Name:	Notebook Computer
Model No.:	X1
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Channel numbers:	802.11b/802.11g/802.11n(HT20): 11 802.11n(HT40): 7
Channel bandwidth:	802.11b/802.11g/802.11n(HT20) : 20MHz 802.11n(HT40): 40MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(H40): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integral Antenna
Antenna gain:	0dBi for 2.4G band(declare by Applicant)
Power supply:	Adapter: Model No.:HKA03619021-6C Input: AC 100~240V~50/60Hz 1.0A Output: DC 19.0V 2.1A

Operation Frequency each of channel @ 2.4G Band							
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		

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:

Test channel	Frequency (MHz)			
	2.4G Band			
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Lowest channel	2412	2412	2412	2422
Middle channel	2437	2437	2437	2437
Highest channel	2462	2462	2462	2452

## 5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

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(HT20)	6.5Mbps
802.11n(HT40)	13Mbps

## 5.4 Description of Support Units

None.

## 5.5 Test Facility

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

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 600491, June 28, 2013.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been

Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

## 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China

Tel: 0755-27798480

Fax: 0755-27798960

## 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	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2015	Mar. 27 2016
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 30 2015	June 29 2016
4	Spectrum analyzer	Agilent	E4447A	GTS516	June 30 2015	June 29 2016
5	Spectrum Analyzer	Agilent	E4440A	GTS533	Nov. 19 2014	Nov. 18 2015
6	BiConiLog Antenna	SCHWARZBECK MESS- ELEKTRONIK	VULB9163	GTS214	Feb. 22 2015	Feb. 21 2016
7	Double -ridged waveguide horn	SCHWARZBECK MESS- ELEKTRONIK	9120D-829	GTS208	June 30 2015	June 29 2016
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2015	Mar. 27 2016
9	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
10	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016
11	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016
12	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016
13	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016
14	Amplifier(100kHz- 3GHz)	HP	8347A	GTS204	June 30 2015	June 29 2016
15	Amplifier(2GHz- 20GHz)	HP	8349B	GTS206	June 30 2015	June 29 2016
16	Amplifier (18-40GHz)	MITEQ	AMF-6F-18004000- 29-8P	GTS534	June 30 2015	June 29 2016
17	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016
18	Constant temperature and humidity box	Oregon Scientific	BA-888	GTS248	Mar. 28 2015	Mar. 27 2016
19	D.C. Power Supply	Instek	PS-3030	GTS232	Mar. 28 2015	Mar. 27 2016
20	Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	Mar. 28 2015	Mar. 27 2016
21	Splitter	Agilent	11636B	GTS237	Mar. 28 2015	Mar. 27 2016
22	Power Meter	Anritsu	ML2495A	GTS540	June 30 2015	June 29 2016
23	Power Sensor	Anritsu	MA2411B	GTS541	June 30 2015	June 29 2016




Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	June 30 2015	June 29 2016
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 30 2015	June 29 2016
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 30 2015	June 29 2016
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 30 2015	June 29 2016
5	LISN	SCHWARZBECK MESS- ELEKTRONIK	NSLK 8127	GTS226	June 30 2015	June 29 2016
6	Coaxial Cable	GTS	N/A	GTS227	June 30 2015	June 29 2016
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

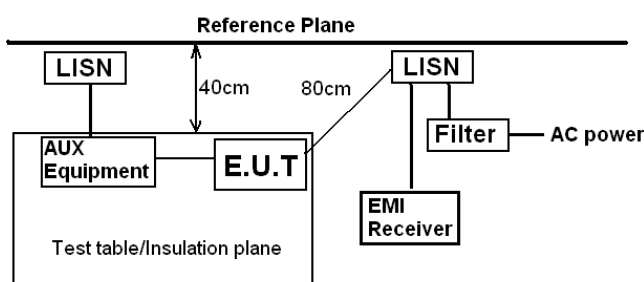
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 07 2015	July 06 2016

## 7 Test results and Measurement Data

### 7.1 Antenna requirement

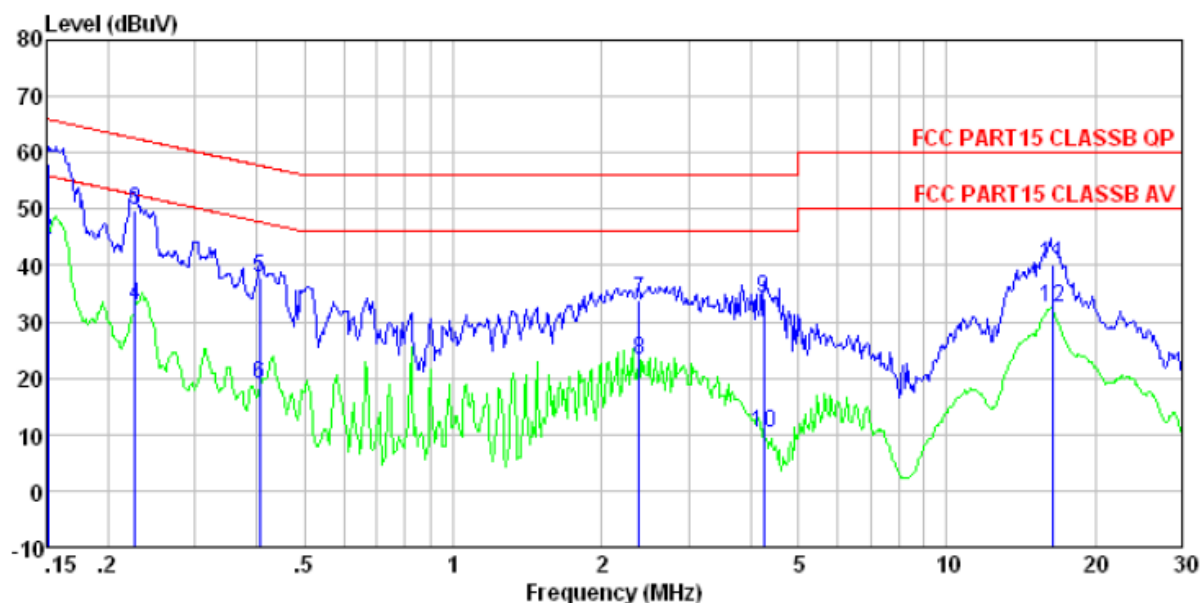
<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
<b>15.203 requirement:</b> An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna 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.	
<b>15.247(c) (1)(i) requirement:</b> (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.	
<b>E.U.T Antenna:</b>	
<i>The antenna is Integral antenna, the best case gain of the antenna is 0dBi</i>	
	

## 7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto														
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> <p>* Decreases with the logarithm of the frequency.</p>	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
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													
Test setup:	<div><p style="text-align: center;"><b>Reference Plane</b></p><p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>														
Test procedure:	<div><div>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>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).</div><div>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 C63.10:2013 on conducted measurement.</div></div>														
Test Instruments:	Refer to section 6.0 for details														
Test mode:	Refer to section 5.3 for details														
Test results:	Pass														

## Measurement data

Line:



Condition : FCC PART15 CLASSB QP LISN-2013 LINE

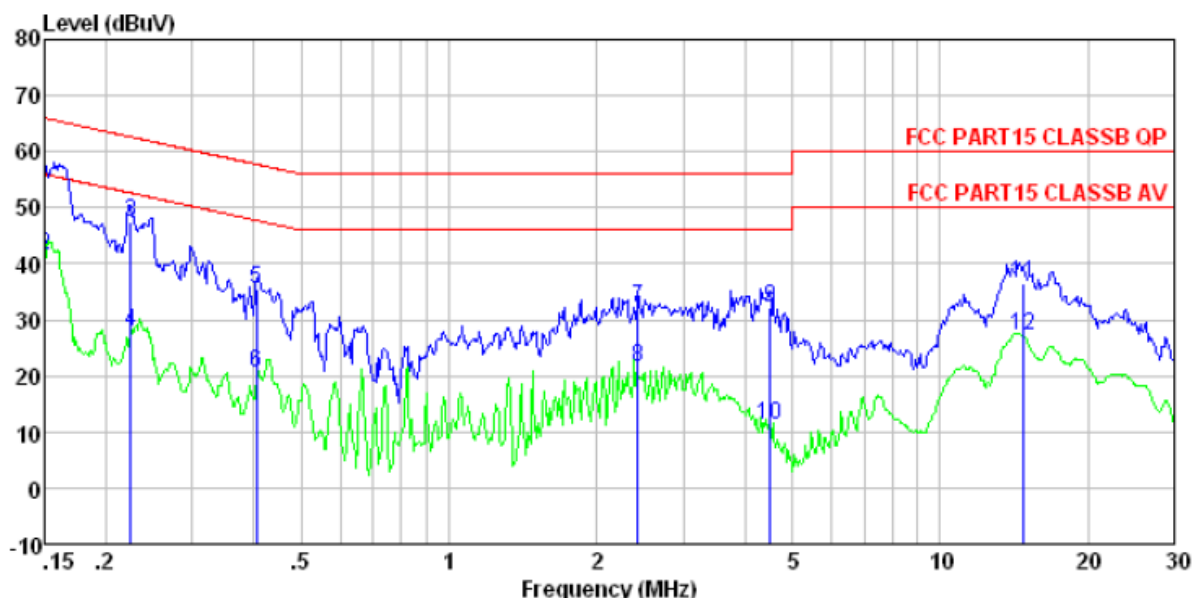
Job No. : 1138RF

Test mode : Wifi mode(2.4G)

Test Engineer: Song

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.151	57.87	0.15	0.12	58.14	65.96	-7.82	QP
2	0.151	44.14	0.15	0.12	44.41	55.96	-11.55	Average
3	0.227	49.46	0.12	0.12	49.70	62.57	-12.87	QP
4	0.227	32.71	0.12	0.12	32.95	52.57	-19.62	Average
5	0.406	37.50	0.11	0.11	37.72	57.73	-20.01	QP
6	0.406	18.72	0.11	0.11	18.94	47.73	-28.79	Average
7	2.384	33.53	0.13	0.15	33.81	56.00	-22.19	QP
8	2.384	22.81	0.13	0.15	23.09	46.00	-22.91	Average
9	4.269	33.71	0.20	0.15	34.06	56.00	-21.94	QP
10	4.269	10.06	0.20	0.15	10.41	46.00	-35.59	Average
11	16.398	39.41	0.39	0.22	40.02	60.00	-19.98	QP
12	16.398	32.02	0.39	0.22	32.63	50.00	-17.37	Average

Neutral:



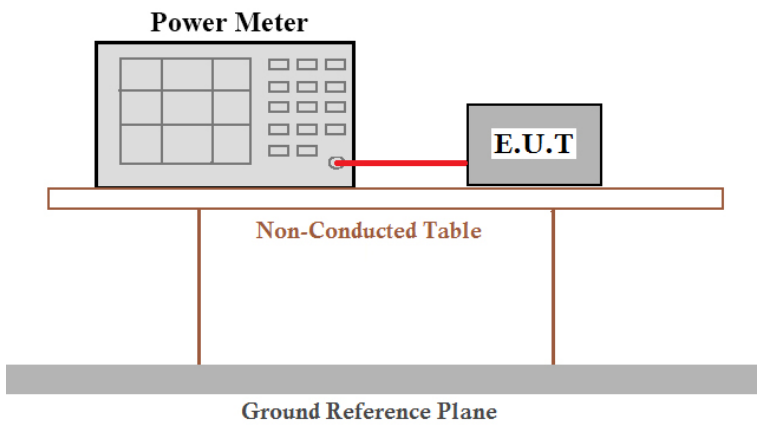
Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL  
 Job No. : 1138RF  
 Test mode : Wifi mode(2.4G)  
 Test Engineer: Song

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	53.07	0.07	0.12	53.26	66.00	-12.74	QP
2	0.150	41.26	0.07	0.12	41.45	56.00	-14.55	Average
3	0.224	47.36	0.06	0.12	47.54	62.66	-15.12	QP
4	0.224	27.55	0.06	0.12	27.73	52.66	-24.93	Average
5	0.406	35.27	0.06	0.11	35.44	57.73	-22.29	QP
6	0.406	20.44	0.06	0.11	20.61	47.73	-27.12	Average
7	2.422	32.02	0.10	0.15	32.27	56.00	-23.73	QP
8	2.422	21.26	0.10	0.15	21.51	46.00	-24.49	Average
9	4.501	31.79	0.15	0.15	32.09	56.00	-23.91	QP
10	4.501	11.09	0.15	0.15	11.39	46.00	-34.61	Average
11	14.828	36.03	0.33	0.22	36.58	60.00	-23.42	QP
12	14.828	26.58	0.33	0.22	27.13	50.00	-22.87	Average

Notes:

1. An initial pre-scan was performed on the line 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
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

## 7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	30dBm
Test setup:	 <p>The diagram illustrates the test setup. A Power Meter is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Power Meter and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

### Measurement Data

## 802.11b/802.11g SISO mode: ANT1

Test CH	Peak Output Power (dBm)		Limit(dBm)	Result
	802.11b	802.11g		
Lowest	16.25	14.34	30.00	Pass
Middle	16.35	14.41		
Highest	16.02	14.47		

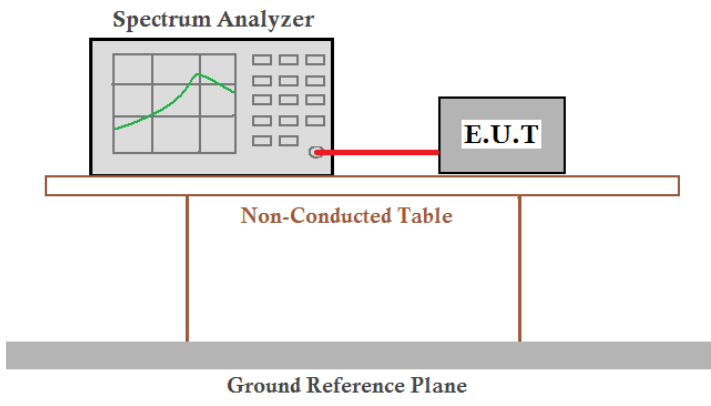
## 802.11b/802.11g SISO mode: ANT2

Test CH	Peak Output Power (dBm)		Limit(dBm)	Result
	802.11b	802.11g		
Lowest	16.03	14.26	30.00	Pass
Middle	16.12	14.33		
Highest	16.07	14.35		

## 802.11n MIMO mode:

Test mode	Channel	Read Level (dBm)		Read Level (mW)	Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	Result
802.11n (HT20)	Lowest	ANT1	11.37	13.71	27.64	14.42	30.00	Pass
		ANT2	11.44	13.93				
	Middle	ANT1	11.43	13.90	28.09	14.49		
		ANT2	11.52	14.19				
	Highest	ANT1	11.32	13.55	27.29	14.36		
		ANT2	11.38	13.74				
802.11n (HT40)	Lowest	ANT1	10.62	11.53	23.31	13.68		
		ANT2	10.71	11.78				
	Middle	ANT1	10.58	11.43	22.99	13.62		
		ANT2	10.63	11.56				
	Highest	ANT1	10.60	11.48	22.81	13.58		
		ANT2	10.54	11.32				

## 7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	>500KHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an Equipment Under Test (E.U.T.) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by two vertical legs, which are in turn supported by a horizontal Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

## Measurement Data



**Antenna 1:**

Test CH	Channel Bandwidth (MHz)				Limit (KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	10.554	16.537	17.603	35.149	>500	Pass
Middle	10.574	16.538	17.575	35.119		
Highest	10.706	16.525	17.607	35.120		

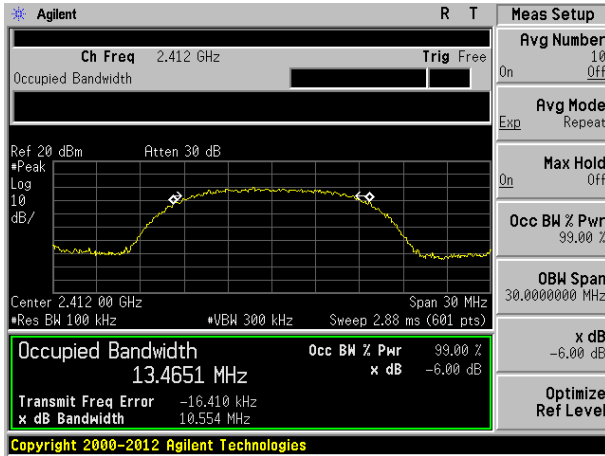
**Antenna 2:**

Test CH	Channel Bandwidth (MHz)				Limit (KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	10.551	16.496	17.610	35.165	>500	Pass
Middle	10.610	16.512	17.651	35.157		
Highest	10.094	16.523	17.648	35.084		

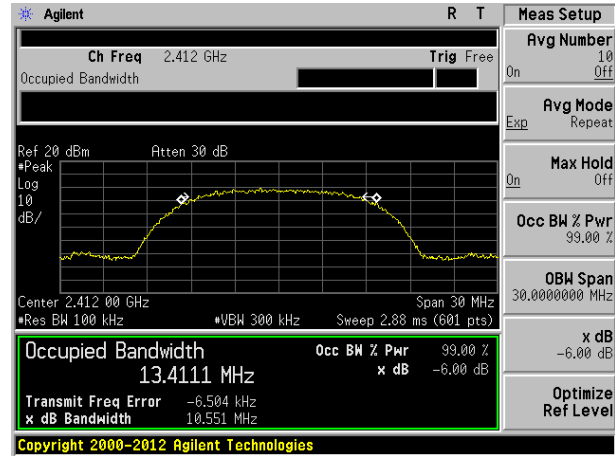
Test plot as follows:

Test mode: 802.11b

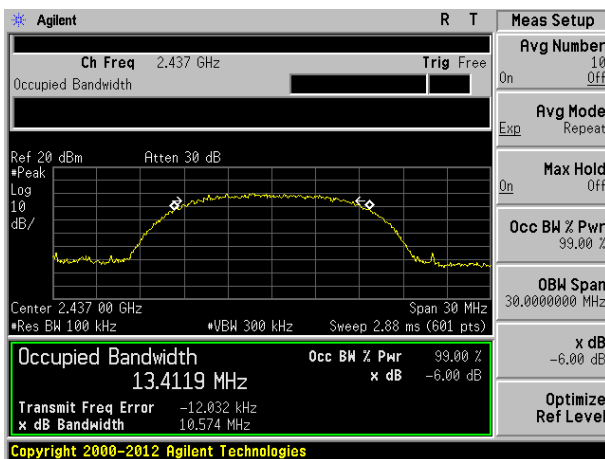
Antenna 1: Antenna 2:



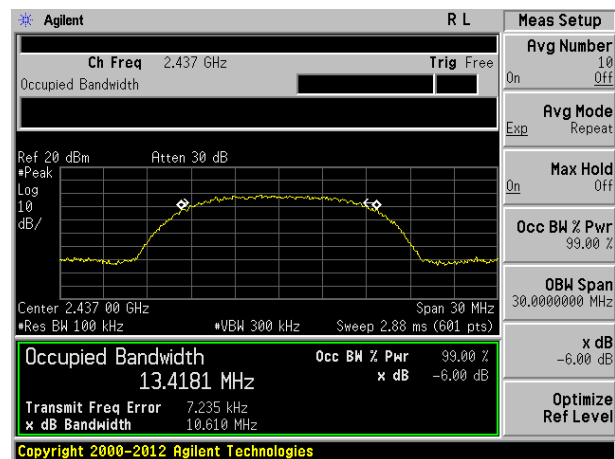
Lowest channel



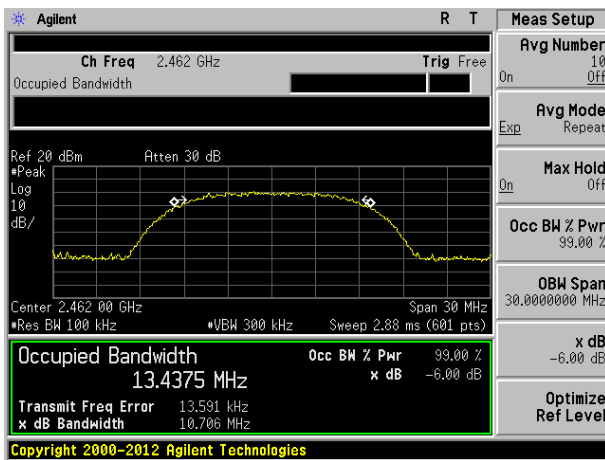
Lowest channel



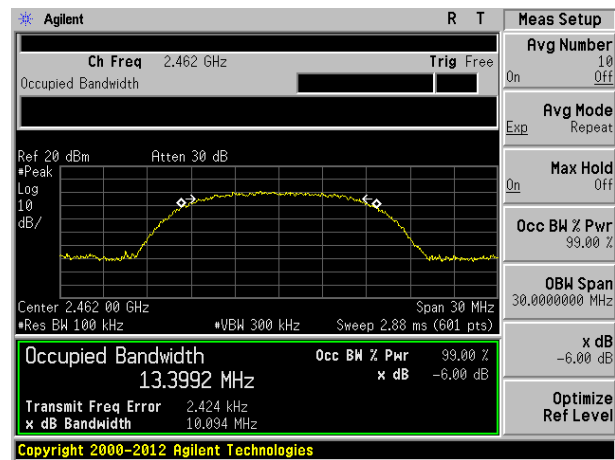
Middle channel



Middle channel



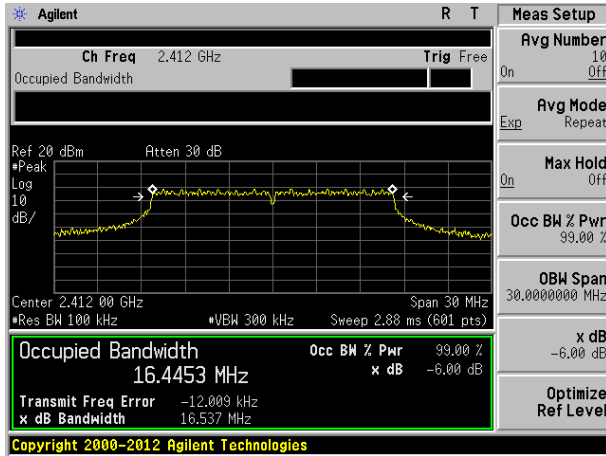
Highest channel



Highest channel

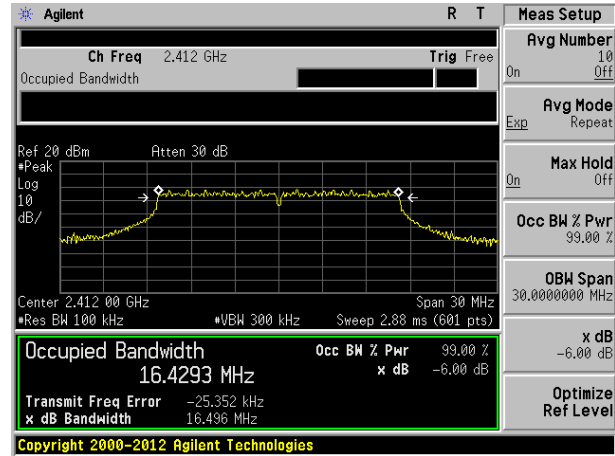
Test mode: 802.11g

Antenna 1:

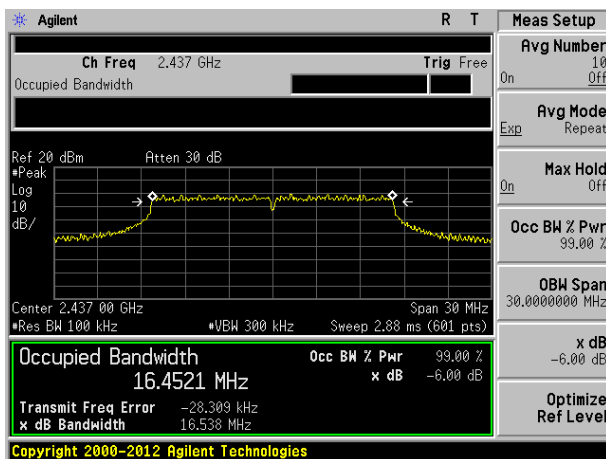


Lowest channel

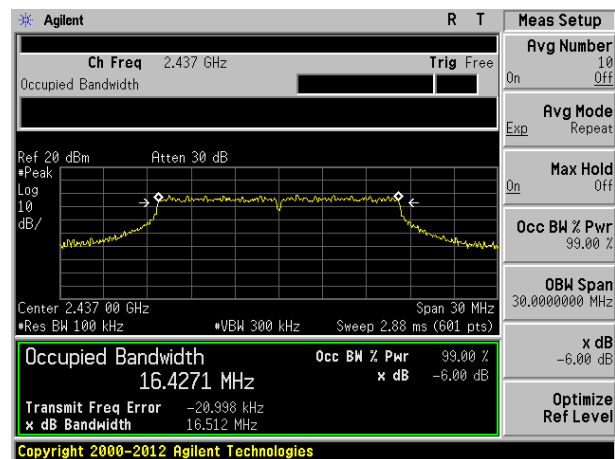
Antenna 2:



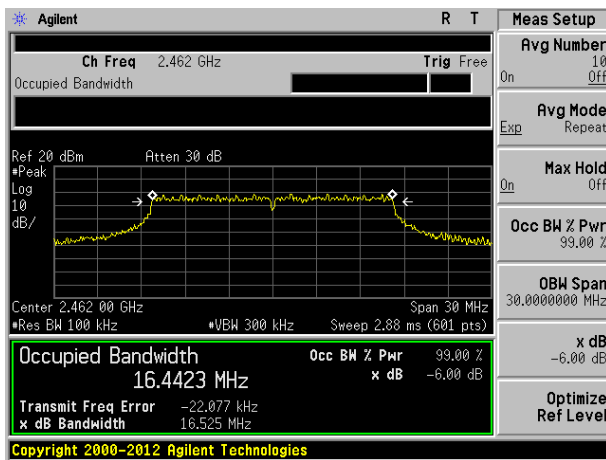
Lowest channel



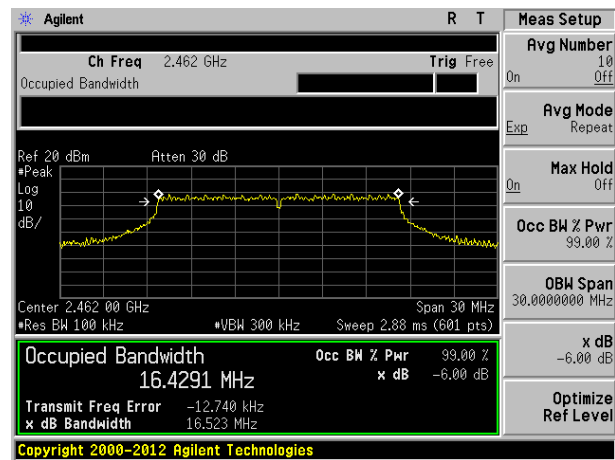
Middle channel



Middle channel



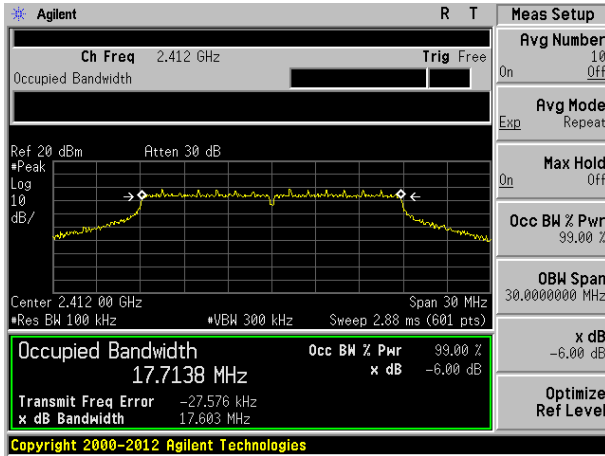
Highest channel



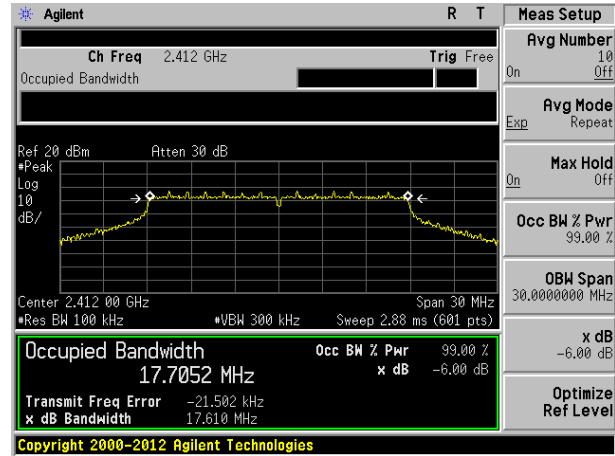
Highest channel

Test mode: 802.11n(HT20)

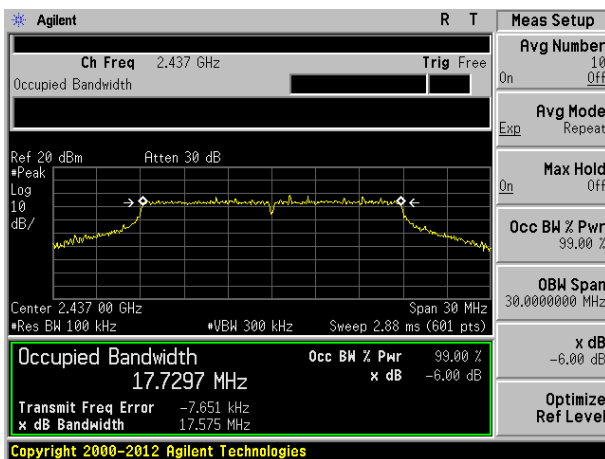
Antenna 1: Antenna 2:



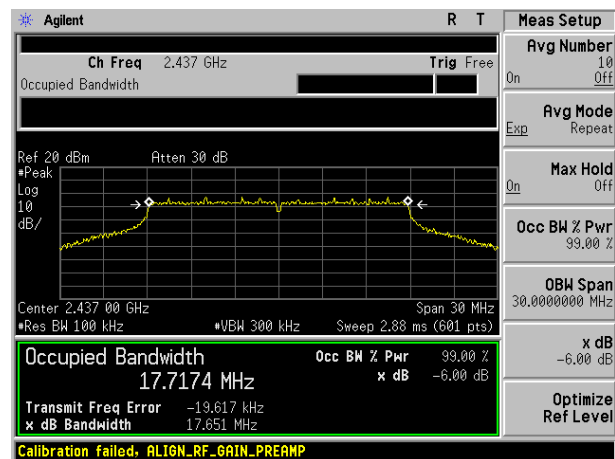
Lowest channel



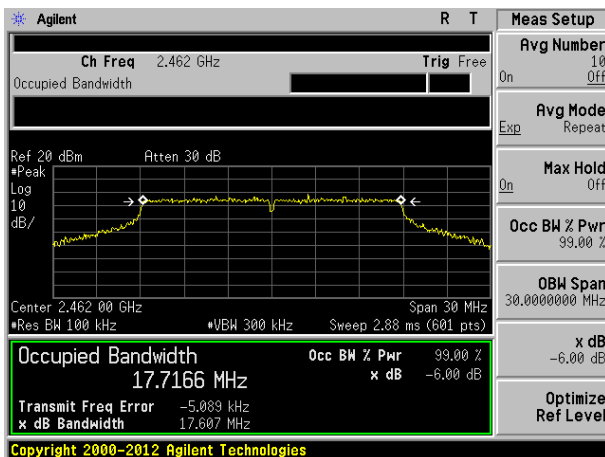
Lowest channel



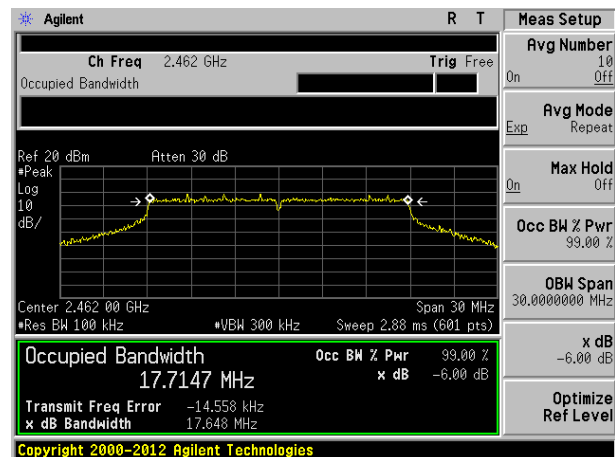
Middle channel



Middle channel



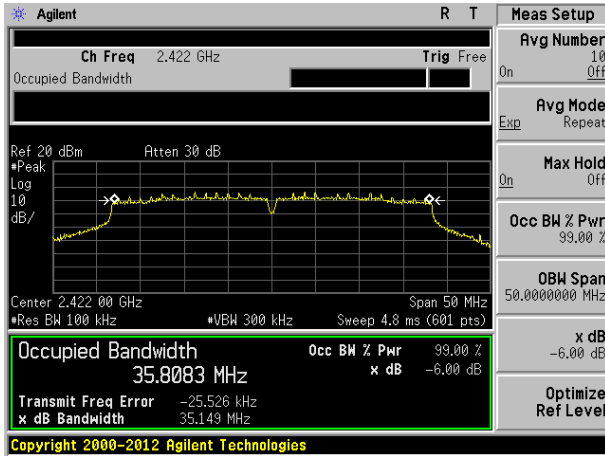
Highest channel



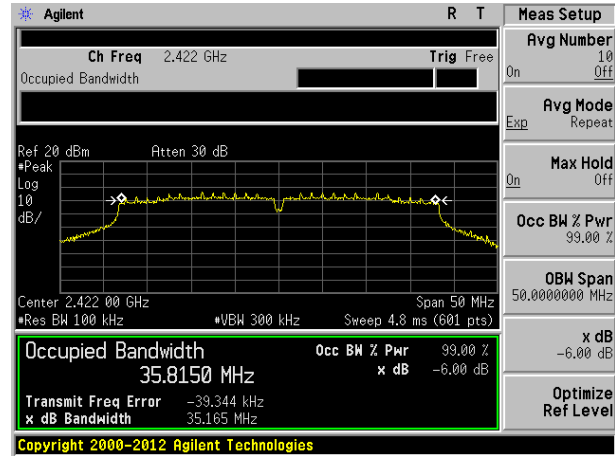
Highest channel

Test mode: 802.11n(HT40)

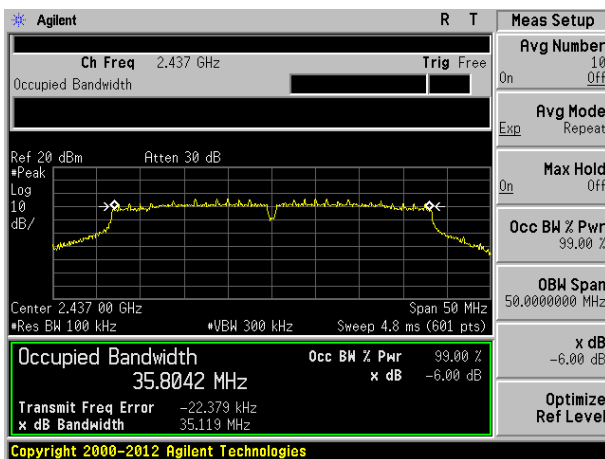
Antenna 1: Antenna 2:



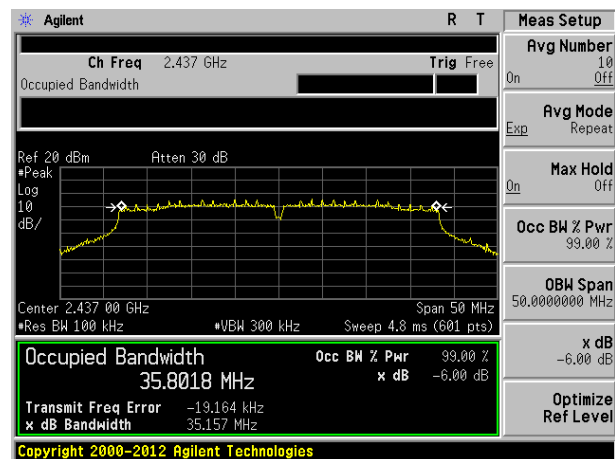
Lowest channel



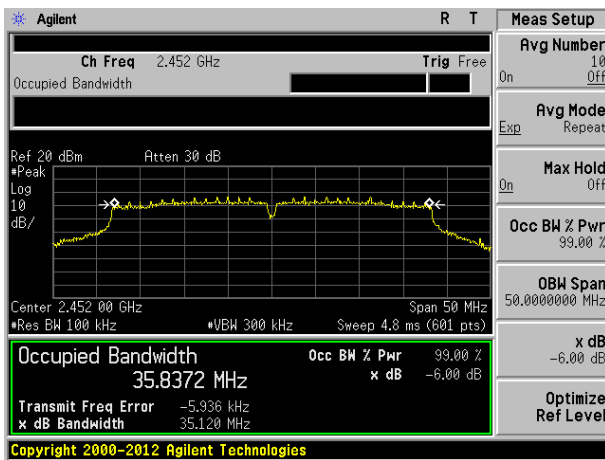
Lowest channel



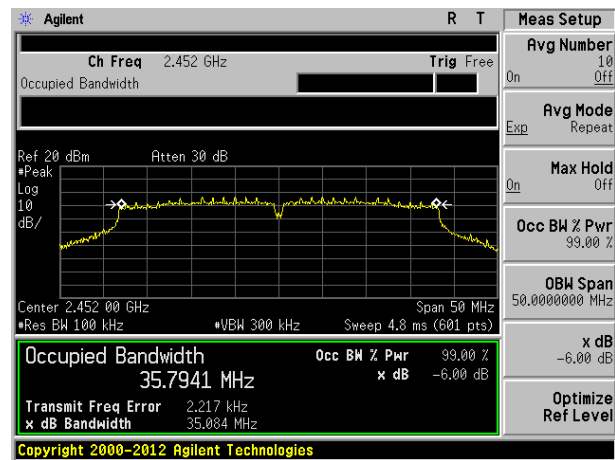
Middle channel



Middle channel

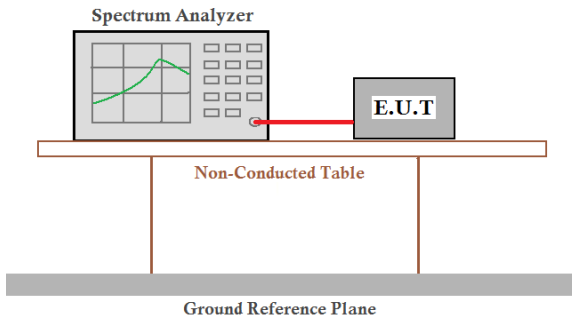


Highest channel



Highest channel

## 7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

### Measurement Data

#### 802.11b/802.11g SISO mode: Antenna 1

Test CH	Power Spectral Density (dBm)		Limit (dBm/3kHz)	Result
	802.11b	802.11g		
Lowest	-0.10	-0.44	8.00	Pass
Middle	-0.34	-0.66		
Highest	-0.07	-1.19		

#### 802.11b/802.11g SISO mode: Antenna 2

Test CH	Power Spectral Density (dBm)		Limit (dBm/3kHz)	Result
	802.11b	802.11g		
Lowest	-0.78	-1.63	8.00	Pass
Middle	-1.10	-1.36		
Highest	1.05	-1.12		

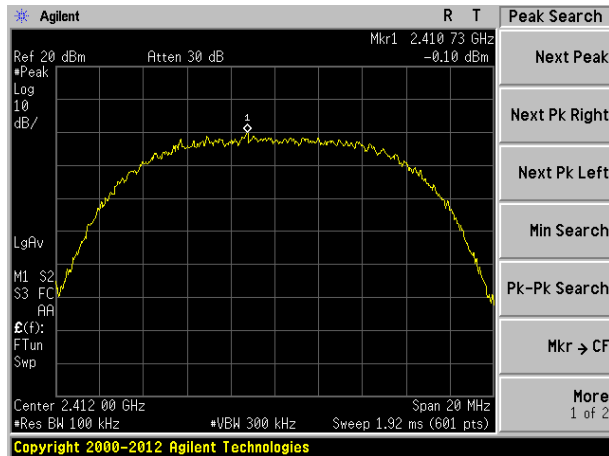
#### 802.11n MIMO mode: AN1+AN2:

Test CH	Power Spectral Density (dBm)						Limit (dBm/3kHz)	Result
	802.11n(HT20)			802.11n(HT40)				
	ANT1	ANT2	Total	ANT1	ANT2	Total		
Lowest	-1.87	-3.22	0.52	-3.77	-3.94	-0.84	8.00	Pass
Middle	-2.15	-2.18	0.86	-4.19	-4.76	-1.46		
Highest	-0.62	-0.49	2.46	-3.14	-3.30	-0.21		

## Test plot as follows:

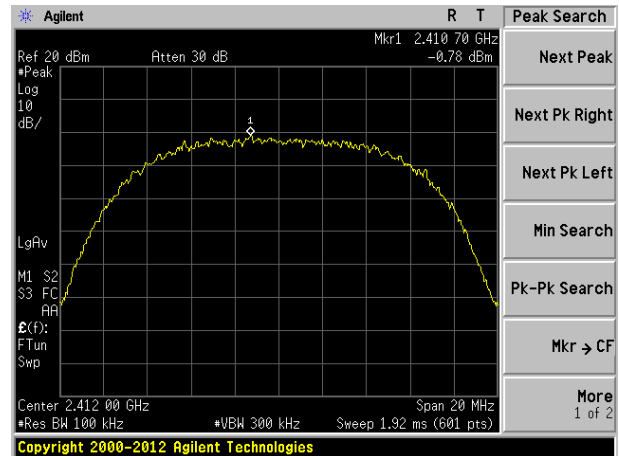
Test mode: 802.11b

Antenna 1:

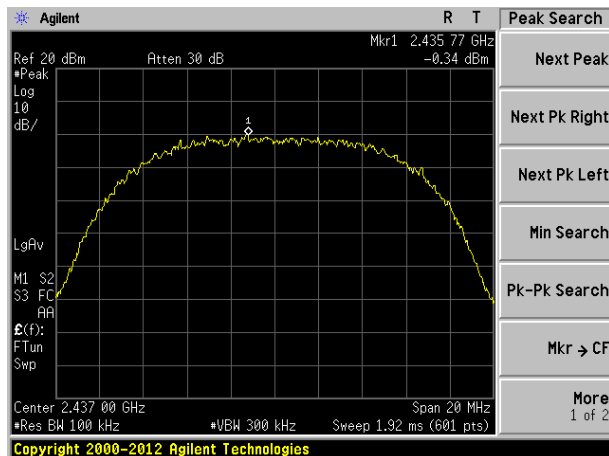


Lowest channel

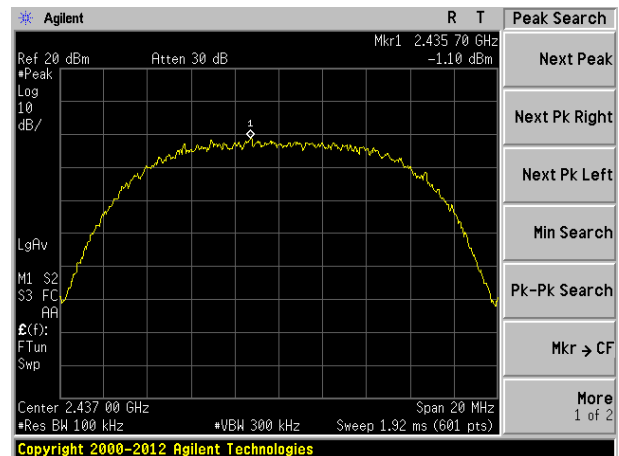
Antenna 2:



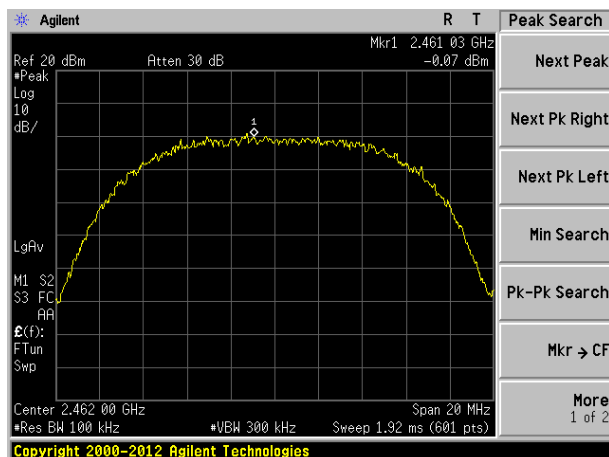
Lowest channel



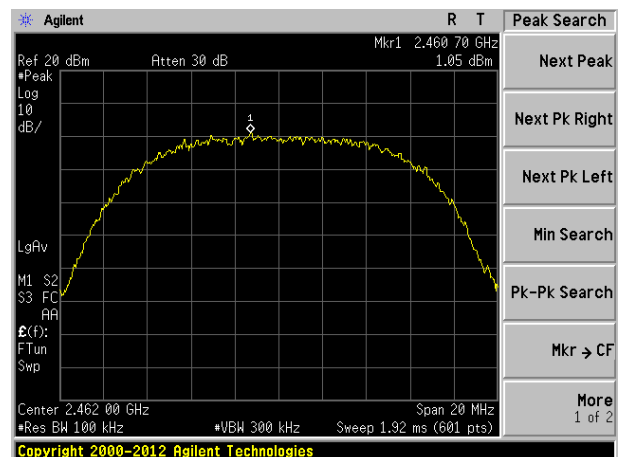
Middle channel



Middle channel



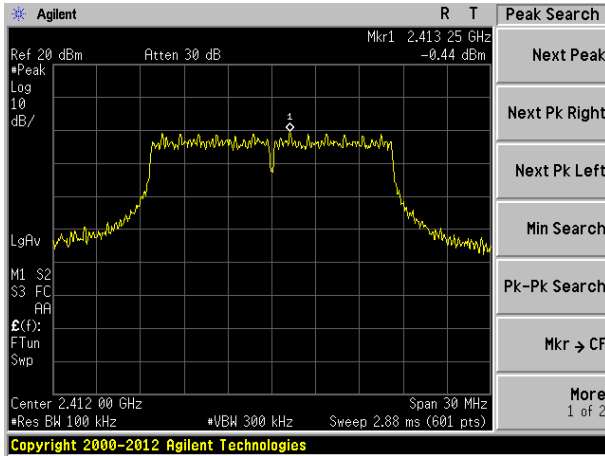
Highest channel



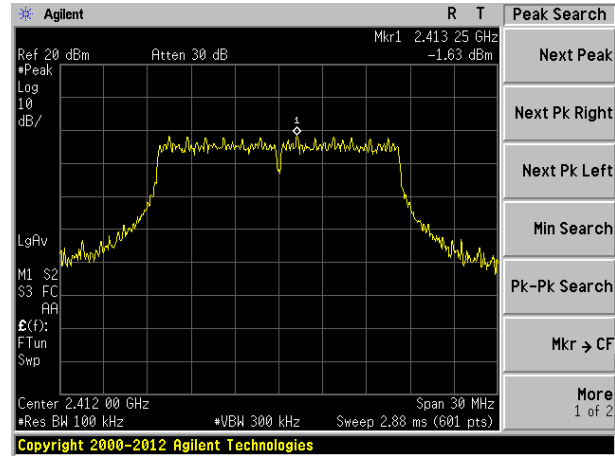
Highest channel

Test mode: 802.11g

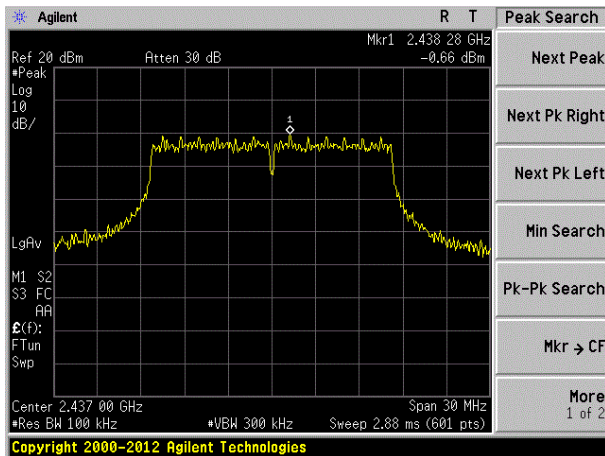
Antenna 1: Antenna 2:



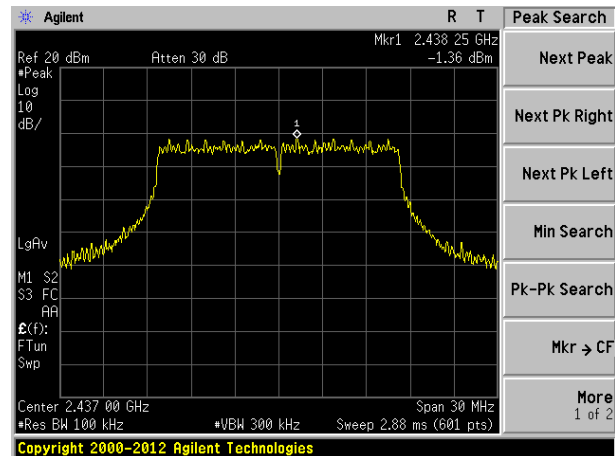
Lowest channel



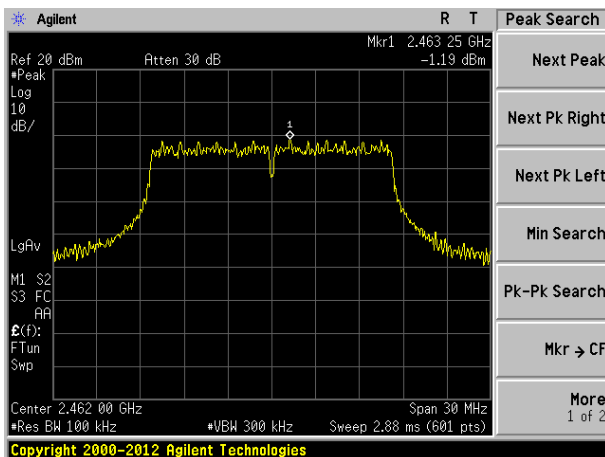
Lowest channel



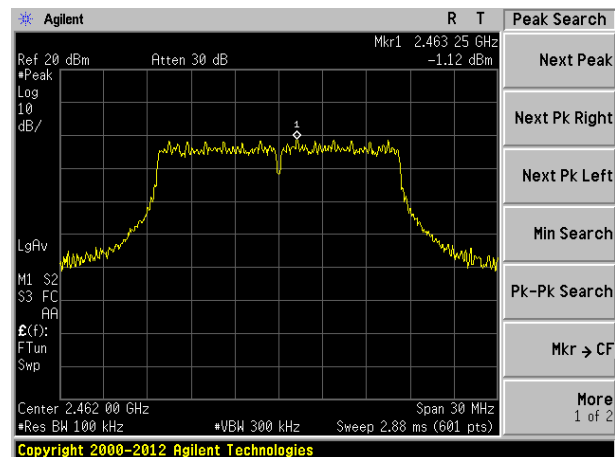
Middle channel



Middle channel



Highest channel

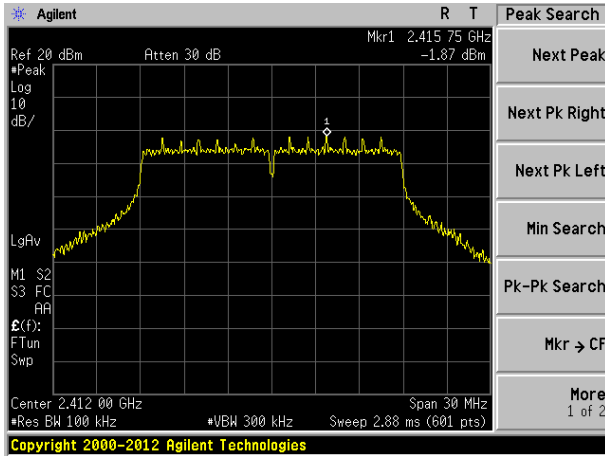


Highest channel

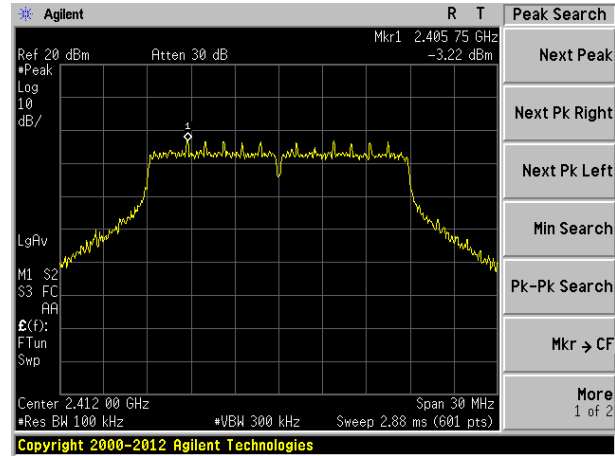


Test mode: 802.11n(HT20)

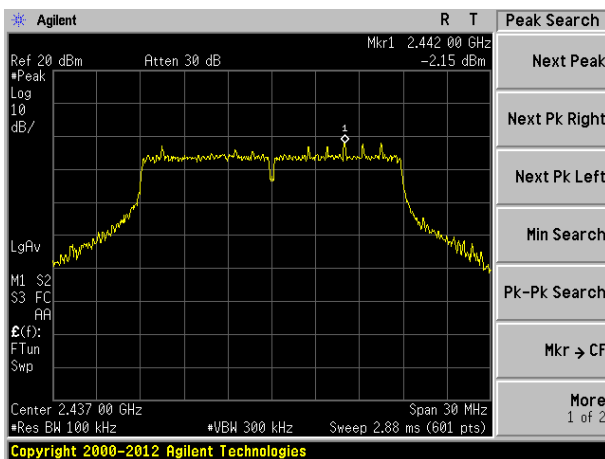
Antenna 1: Antenna 2:



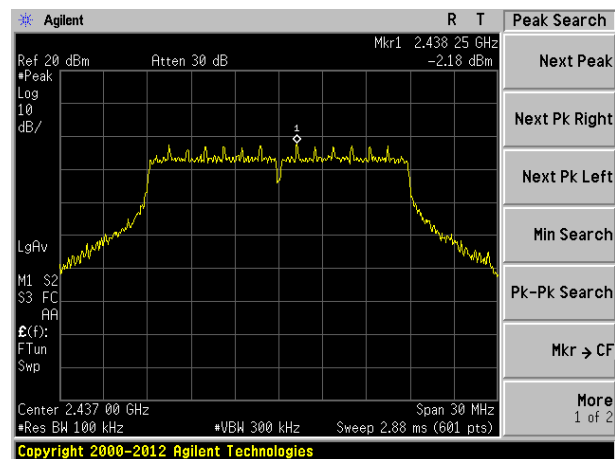
Lowest channel



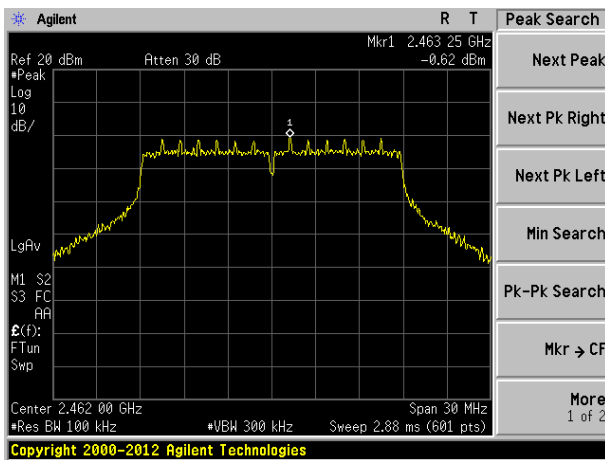
Lowest channel



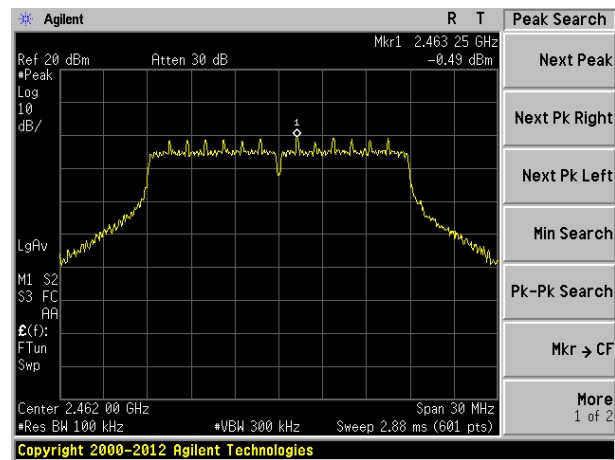
Middle channel



Middle channel



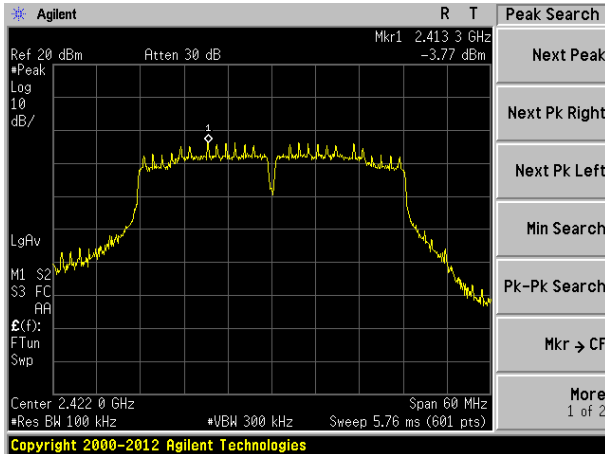
Highest channel



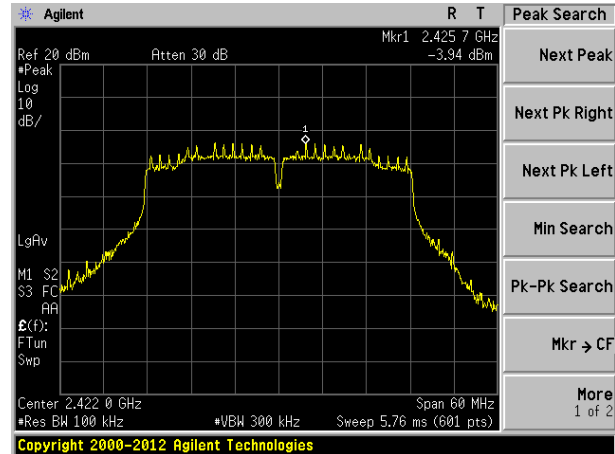
Highest channel

Test mode: 802.11n(HT40)

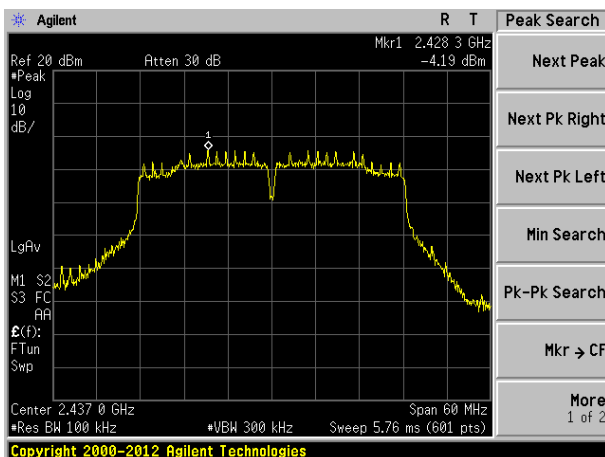
Antenna 1: Antenna 2:



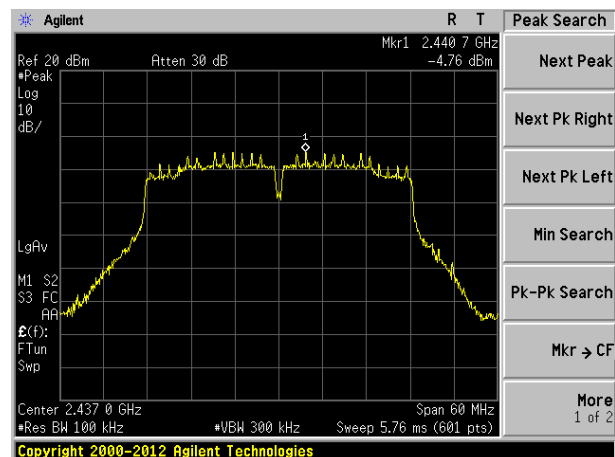
Lowest channel



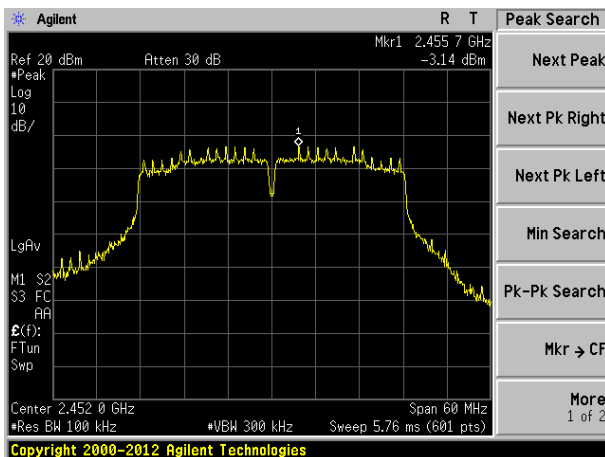
Lowest channel



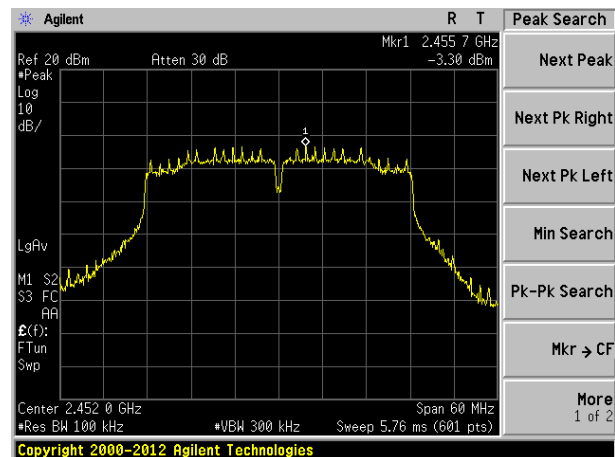
Middle channel



Middle channel



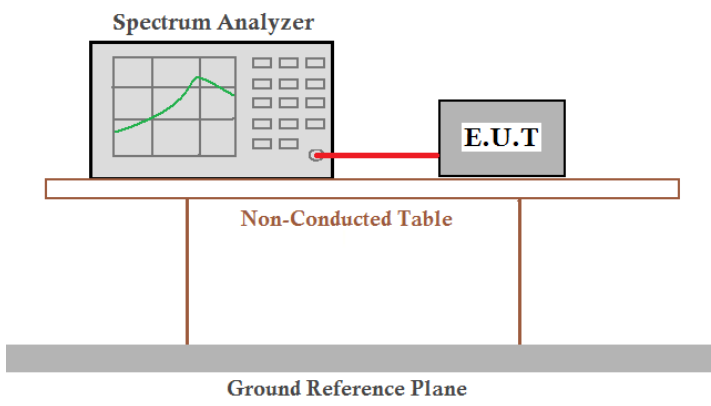
Highest channel



Highest channel

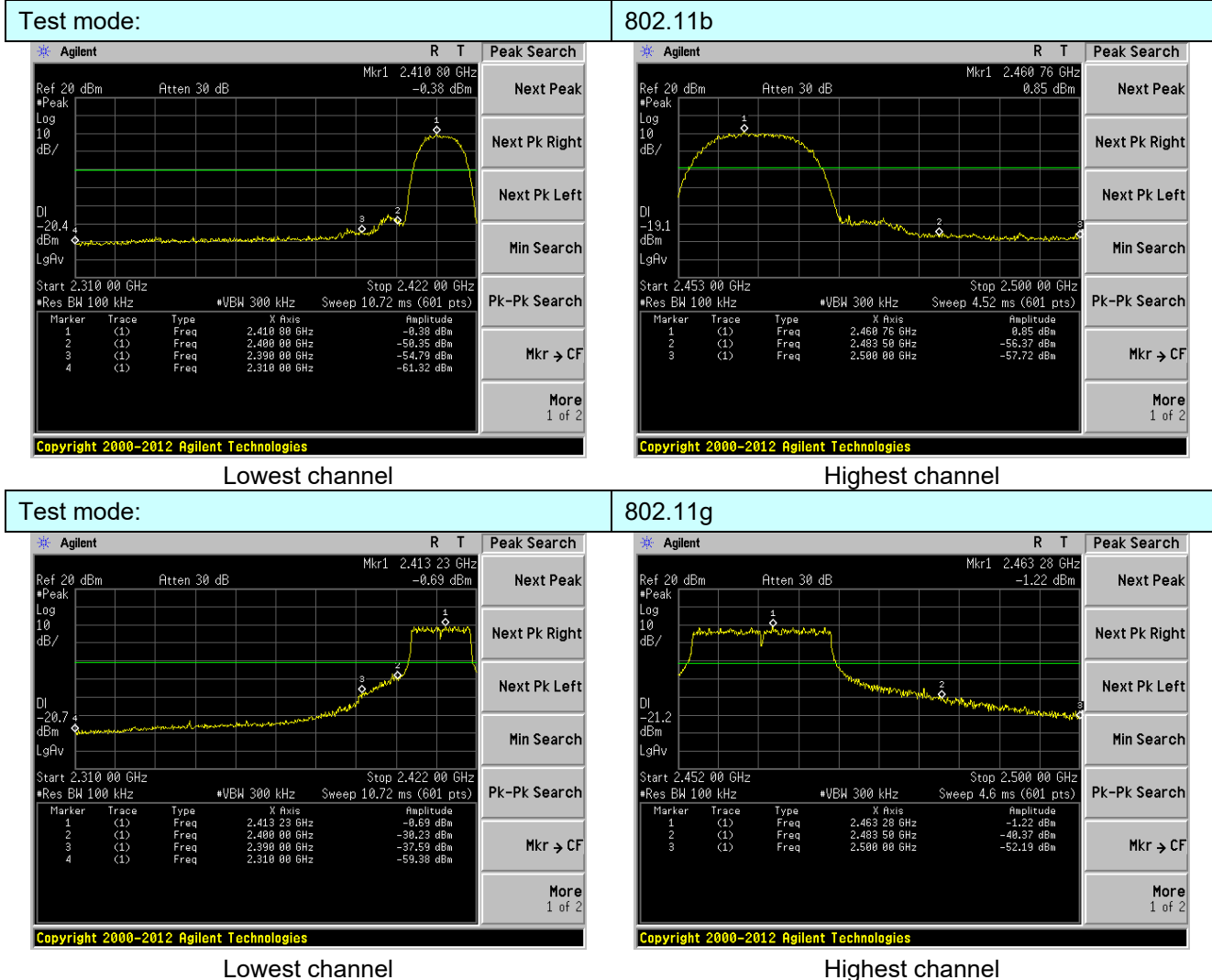
## 7.6 Band edges

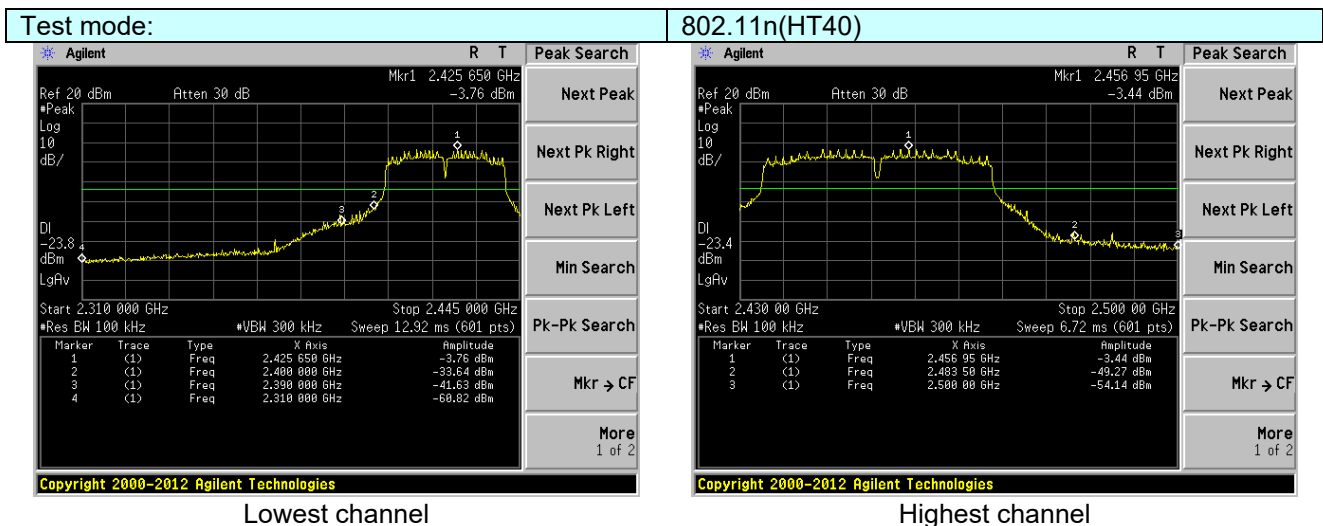
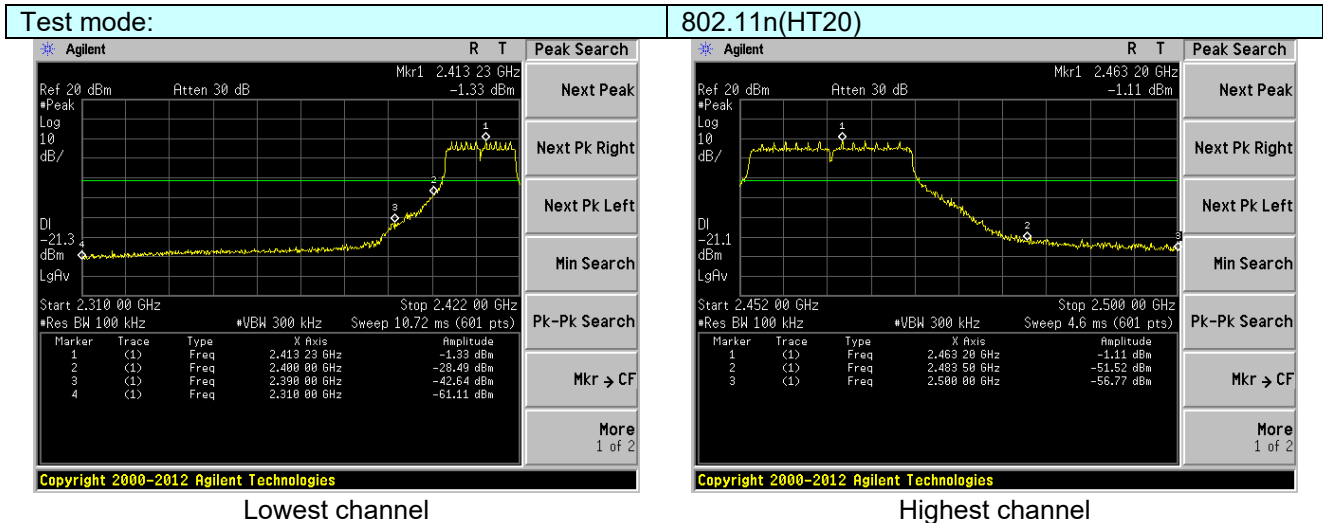
### 7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meads Guidance V03
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 for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane, represented by a thick grey bar.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

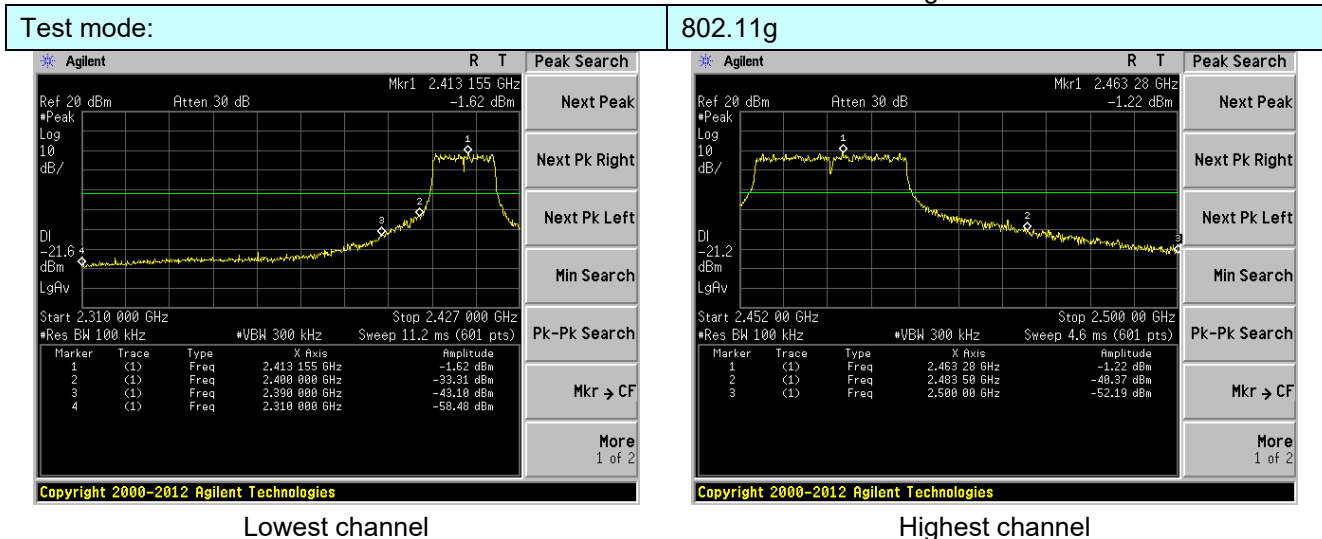
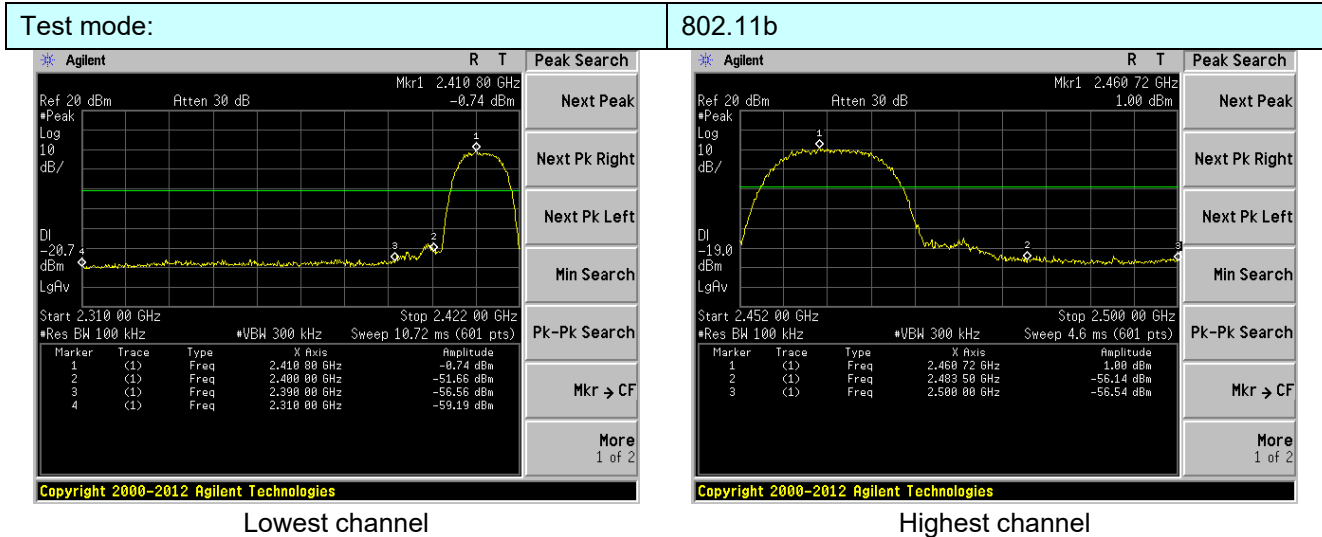
## Test plot as follows:

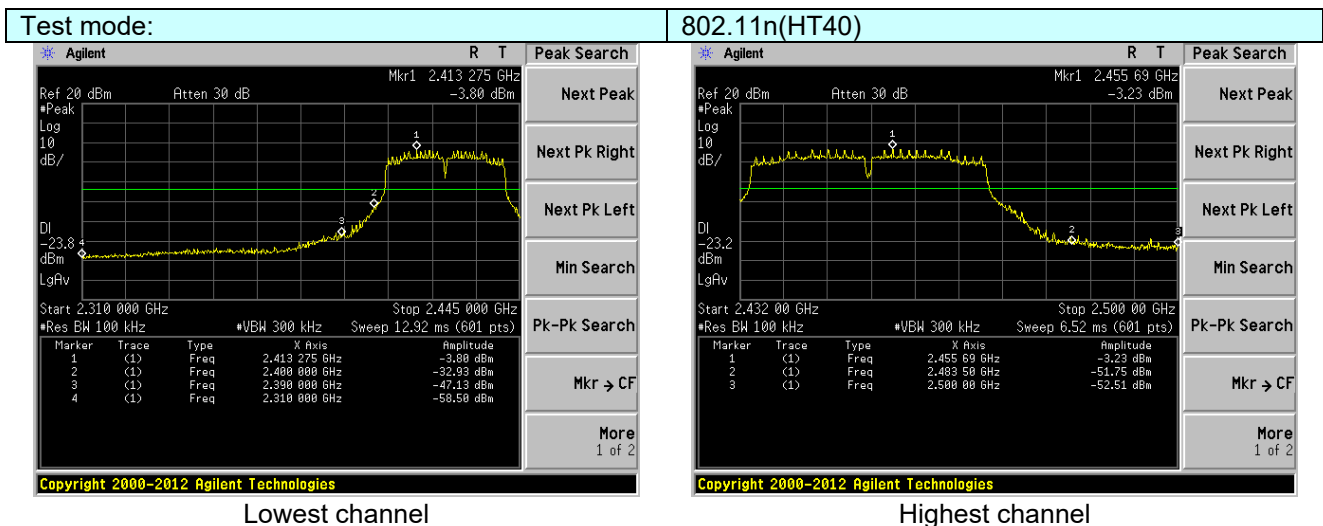
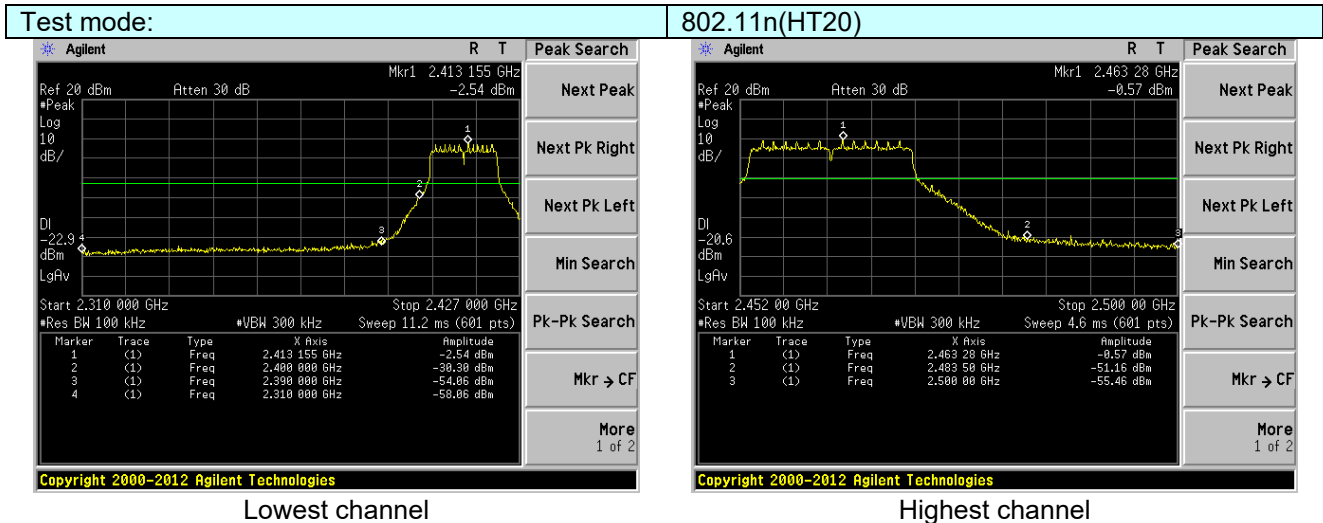
Antenna 1:



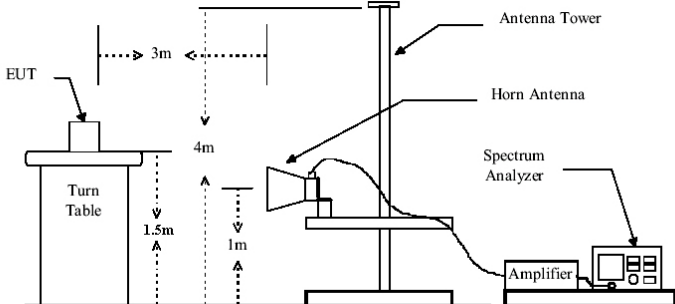


Antenna 2:





## 7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	30MHz to 40GHz, only worse case is reported				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Procedure:	<ol style="list-style-type: none"><li>1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>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.</li><li>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.</li><li>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.</li><li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li><li>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.</li><li>7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li></ol>				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				



Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

## 802.11b SISO mode:ANT1

Test mode:	802.11b	Test channel:	Lowest
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### Peak value:

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	51.41	27.59	5.38	34.01	50.37	74.00	-23.63	Horizontal
2400.00	60.34	27.58	5.39	34.01	59.30	74.00	-14.70	Horizontal
2390.00	53.08	27.59	5.38	34.01	52.04	74.00	-21.96	Vertical
2400.00	62.08	27.58	5.39	34.01	61.04	74.00	-12.96	Vertical

### Average value:

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	38.24	27.59	5.38	34.01	37.20	54.00	-16.80	Horizontal
2400.00	46.51	27.58	5.39	34.01	45.47	54.00	-8.53	Horizontal
2390.00	40.04	27.59	5.38	34.01	39.00	54.00	-15.00	Vertical
2400.00	47.62	27.58	5.39	34.01	46.58	54.00	-7.42	Vertical

Test mode:	802.11b	Test channel:	Highest
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### Peak value:

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	51.97	27.53	5.47	33.92	51.05	74.00	-22.95	Horizontal
2500.00	47.87	27.55	5.49	29.93	50.98	74.00	-23.02	Horizontal
2483.50	54.18	27.53	5.47	33.92	53.26	74.00	-20.74	Vertical
2500.00	50.34	27.55	5.49	29.93	53.45	74.00	-20.55	Vertical

### Average value:

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	38.57	27.53	5.47	33.92	37.65	54.00	-16.35	Horizontal
2500.00	34.72	27.55	5.49	29.93	37.83	54.00	-16.17	Horizontal
2483.50	40.50	27.53	5.47	33.92	39.58	54.00	-14.42	Vertical
2500.00	36.59	27.55	5.49	29.93	39.70	54.00	-14.30	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.

## 802.11b SISO mode:ANT2

Test mode:	802.11b	Test channel:	Lowest
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### Peak value:

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	51.96	27.59	5.38	34.01	50.92	74.00	-23.08	Horizontal
2400.00	61.07	27.58	5.39	34.01	60.03	74.00	-13.97	Horizontal
2390.00	53.67	27.59	5.38	34.01	52.63	74.00	-21.37	Vertical
2400.00	62.96	27.58	5.39	34.01	61.92	74.00	-12.08	Vertical

### Average value:

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	38.63	27.59	5.38	34.01	37.59	54.00	-16.41	Horizontal
2400.00	46.96	27.58	5.39	34.01	45.92	54.00	-8.08	Horizontal
2390.00	40.47	27.59	5.38	34.01	39.43	54.00	-14.57	Vertical
2400.00	48.11	27.58	5.39	34.01	47.07	54.00	-6.93	Vertical

Test mode:	802.11b	Test channel:	Highest
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### Peak value:

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	52.75	27.53	5.47	33.92	51.83	74.00	-22.17	Horizontal
2500.00	48.48	27.55	5.49	29.93	51.59	74.00	-22.41	Horizontal
2483.50	55.08	27.53	5.47	33.92	54.16	74.00	-19.84	Vertical
2500.00	51.05	27.55	5.49	29.93	54.16	74.00	-19.84	Vertical

### Average value:

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	39.04	27.53	5.47	33.92	38.12	54.00	-15.88	Horizontal
2500.00	35.09	27.55	5.49	29.93	38.20	54.00	-15.80	Horizontal
2483.50	41.02	27.53	5.47	33.92	40.10	54.00	-13.90	Vertical
2500.00	36.98	27.55	5.49	29.93	40.09	54.00	-13.91	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.

## 802.11g SISO mode:ANT1

Test mode:	802.11g	Test channel:	Lowest
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### Peak value:

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	50.38	27.59	5.38	34.01	49.34	74.00	-24.66	Horizontal
2400.00	58.96	27.58	5.39	34.01	57.92	74.00	-16.08	Horizontal
2390.00	51.97	27.59	5.38	34.01	50.93	74.00	-23.07	Vertical
2400.00	60.42	27.58	5.39	34.01	59.38	74.00	-14.62	Vertical

### Average value:

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	37.51	27.59	5.38	34.01	36.47	54.00	-17.53	Horizontal
2400.00	45.66	27.58	5.39	34.01	44.62	54.00	-9.38	Horizontal
2390.00	39.22	27.59	5.38	34.01	38.18	54.00	-15.82	Vertical
2400.00	46.69	27.58	5.39	34.01	45.65	54.00	-8.35	Vertical

Test mode:	802.11g	Test channel:	Highest
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### Peak value:

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	50.49	27.53	5.47	33.92	49.57	74.00	-24.43	Horizontal
2500.00	46.72	27.55	5.49	29.93	49.83	74.00	-24.17	Horizontal
2483.50	52.49	27.53	5.47	33.92	51.57	74.00	-22.43	Vertical
2500.00	48.99	27.55	5.49	29.93	52.10	74.00	-21.90	Vertical

### Average value:

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	37.68	27.53	5.47	33.92	36.76	54.00	-17.24	Horizontal
2500.00	34.02	27.55	5.49	29.93	37.13	54.00	-16.87	Horizontal
2483.50	39.51	27.53	5.47	33.92	38.59	54.00	-15.41	Vertical
2500.00	35.85	27.55	5.49	29.93	38.96	54.00	-15.04	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.

## 802.11g SISO mode:ANT2

Test mode:	802.11g	Test channel:	Lowest
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### Peak value:

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	50.68	27.59	5.38	34.01	49.64	74.00	-24.36	Horizontal
2400.00	59.36	27.58	5.39	34.01	58.32	74.00	-15.68	Horizontal
2390.00	52.29	27.59	5.38	34.01	51.25	74.00	-22.75	Vertical
2400.00	60.91	27.58	5.39	34.01	59.87	74.00	-14.13	Vertical

### Average value:

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	37.73	27.59	5.38	34.01	36.69	54.00	-17.31	Horizontal
2400.00	45.91	27.58	5.39	34.01	44.87	54.00	-9.13	Horizontal
2390.00	39.46	27.59	5.38	34.01	38.42	54.00	-15.58	Vertical
2400.00	46.96	27.58	5.39	34.01	45.92	54.00	-8.08	Vertical

Test mode:	802.11g	Test channel:	Highest
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### Peak value:

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	50.92	27.53	5.47	33.92	50.00	74.00	-24.00	Horizontal
2500.00	47.06	27.55	5.49	29.93	50.17	74.00	-23.83	Horizontal
2483.50	52.98	27.53	5.47	33.92	52.06	74.00	-21.94	Vertical
2500.00	49.38	27.55	5.49	29.93	52.49	74.00	-21.51	Vertical

### Average value:

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	37.94	27.53	5.47	33.92	37.02	54.00	-16.98	Horizontal
2500.00	34.22	27.55	5.49	29.93	37.33	54.00	-16.67	Horizontal
2483.50	39.80	27.53	5.47	33.92	38.88	54.00	-15.12	Vertical
2500.00	36.07	27.55	5.49	29.93	39.18	54.00	-14.82	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.

## 802.11n MIMO mode: ANT1+ANT2

Test mode:	802.11n(HT20)	Test channel:	Lowest
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### Peak value:

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	50.15	27.59	5.38	34.01	49.11	74.00	-24.89	Horizontal
2400.00	58.66	27.58	5.39	34.01	57.62	74.00	-16.38	Horizontal
2390.00	51.73	27.59	5.38	34.01	50.69	74.00	-23.31	Vertical
2400.00	60.05	27.58	5.39	34.01	59.01	74.00	-14.99	Vertical

### Average value:

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	37.34	27.59	5.38	34.01	36.30	54.00	-17.70	Horizontal
2400.00	45.47	27.58	5.39	34.01	44.43	54.00	-9.57	Horizontal
2390.00	39.04	27.59	5.38	34.01	38.00	54.00	-16.00	Vertical
2400.00	46.48	27.58	5.39	34.01	45.44	54.00	-8.56	Vertical

Test mode:	802.11n(HT20)	Test channel:	Highest
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### Peak value:

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	50.16	27.53	5.47	33.92	49.24	74.00	-24.76	Horizontal
2500.00	46.47	27.55	5.49	29.93	49.58	74.00	-24.42	Horizontal
2483.50	52.11	27.53	5.47	33.92	51.19	74.00	-22.81	Vertical
2500.00	48.70	27.55	5.49	29.93	51.81	74.00	-22.19	Vertical

### Average value:

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	37.48	27.53	5.47	33.92	36.56	54.00	-17.44	Horizontal
2500.00	33.87	27.55	5.49	29.93	36.98	54.00	-17.02	Horizontal
2483.50	39.29	27.53	5.47	33.92	38.37	54.00	-15.63	Vertical
2500.00	35.69	27.55	5.49	29.93	38.80	54.00	-15.20	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.

Test mode:	802.11n(HT40)	Test channel:	Lowest
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**Peak value:**

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	49.84	27.59	5.38	34.01	48.80	74.00	-25.20	Horizontal
2400.00	58.24	27.58	5.39	34.01	57.20	74.00	-16.80	Horizontal
2390.00	51.39	27.59	5.38	34.01	50.35	74.00	-23.65	Vertical
2400.00	59.55	27.58	5.39	34.01	58.51	74.00	-15.49	Vertical

**Average value:**

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	37.12	27.59	5.38	34.01	36.08	54.00	-17.92	Horizontal
2400.00	45.22	27.58	5.39	34.01	44.18	54.00	-9.82	Horizontal
2390.00	38.80	27.59	5.38	34.01	37.76	54.00	-16.24	Vertical
2400.00	46.20	27.58	5.39	34.01	45.16	54.00	-8.84	Vertical

Test mode:	802.11n(HT40)	Test channel:	Highest
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**Peak value:**

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	49.72	27.53	5.47	33.92	48.80	74.00	-25.20	Horizontal
2500.00	46.12	27.55	5.49	29.93	49.23	74.00	-24.77	Horizontal
2483.50	51.60	27.53	5.47	33.92	50.68	74.00	-23.32	Vertical
2500.00	48.29	27.55	5.49	29.93	51.40	74.00	-22.60	Vertical

**Average value:**

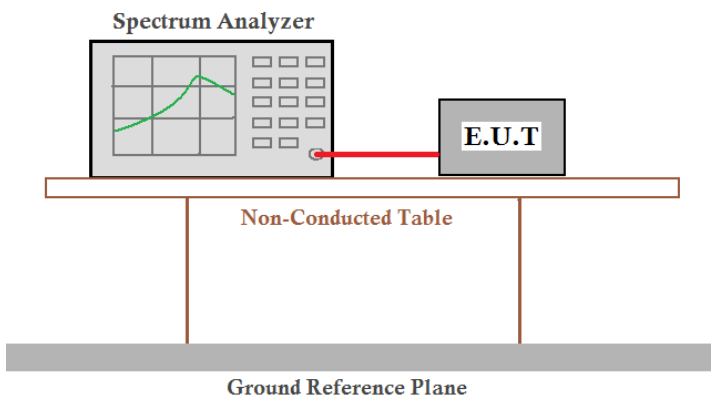
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.21	27.53	5.47	33.92	36.29	54.00	-17.71	Horizontal
2500.00	33.66	27.55	5.49	29.93	36.77	54.00	-17.23	Horizontal
2483.50	39.00	27.53	5.47	33.92	38.08	54.00	-15.92	Vertical
2500.00	35.47	27.55	5.49	29.93	38.58	54.00	-15.42	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.

## 7.7 Spurious Emission

### 7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03
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 for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane, represented by a thick grey bar.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

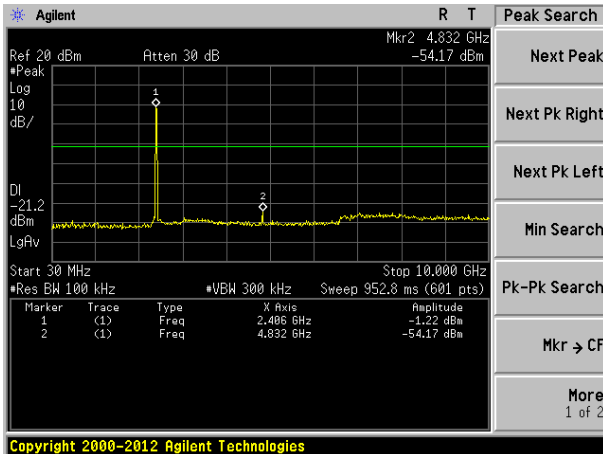
Test plot as follows:



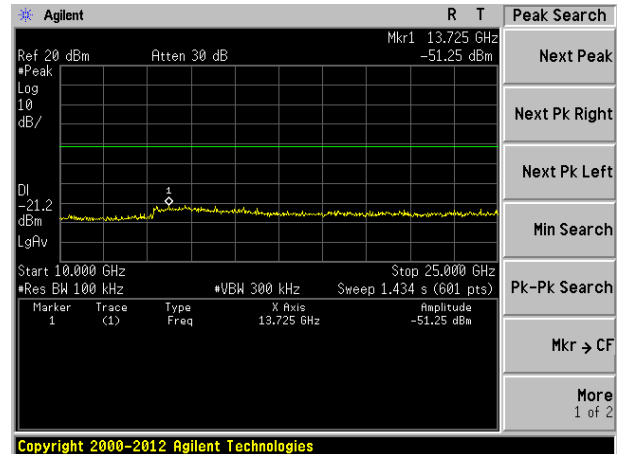
## Antenna 1:

Test mode:	802.11b
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### Lowest channel

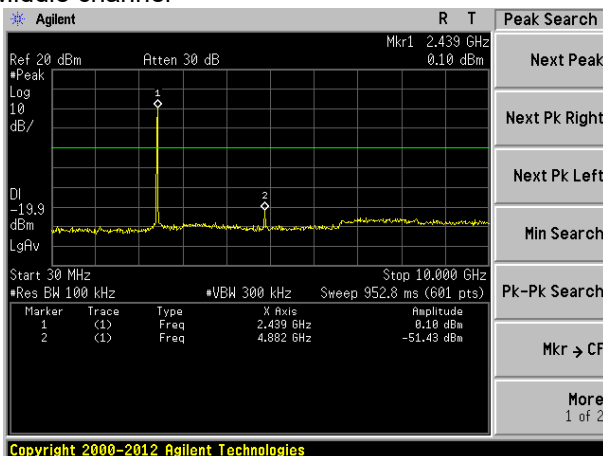


30MHz~10GHz

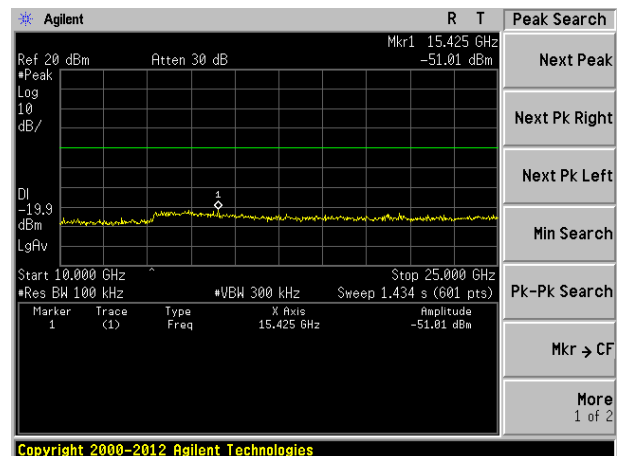


10GHz~25GHz

### Middle channel

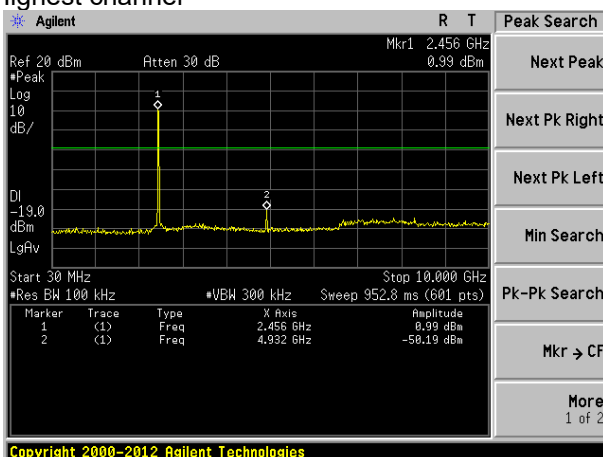


30MHz~10GHz

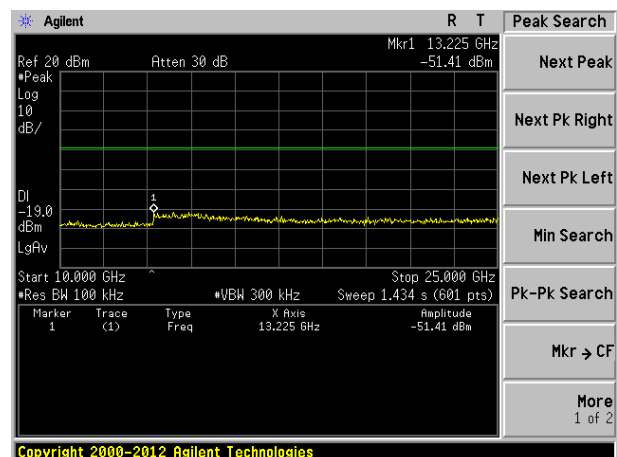


10GHz~25GHz

### Highest channel



30MHz~10GHz

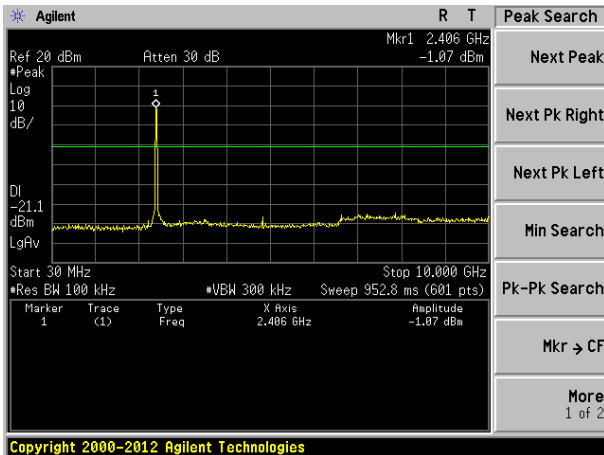


10GHz~25GHz

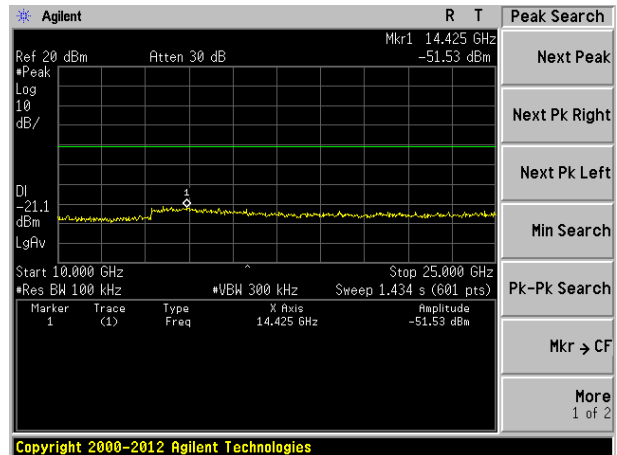


Test mode:	802.11g
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## Lowest channel

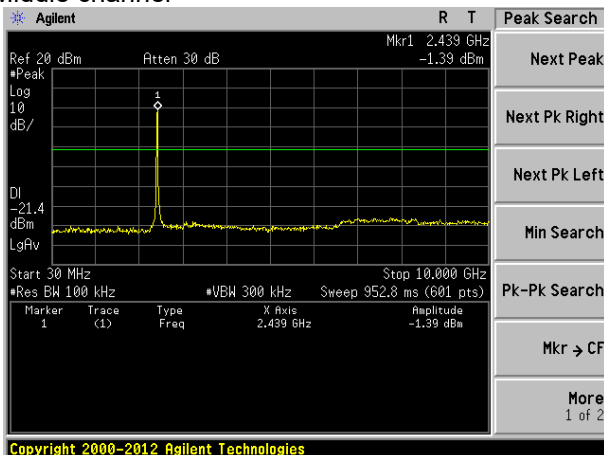


30MHz~10GHz

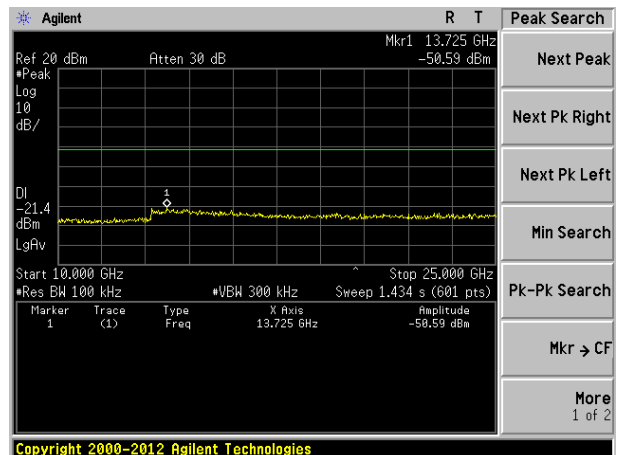


10GHz~25GHz

## Middle channel

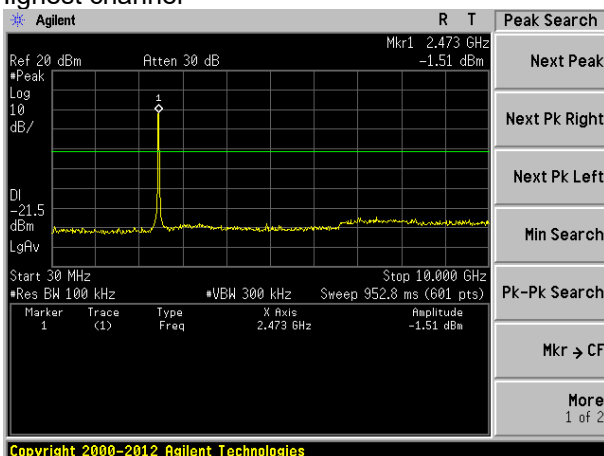


30MHz~10GHz

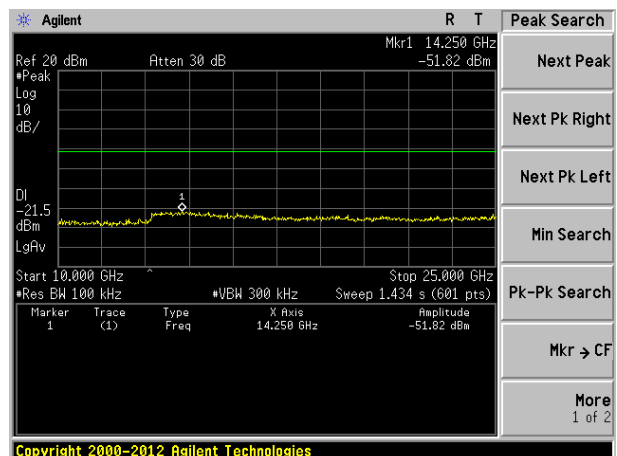


10GHz~25GHz

## Highest channel



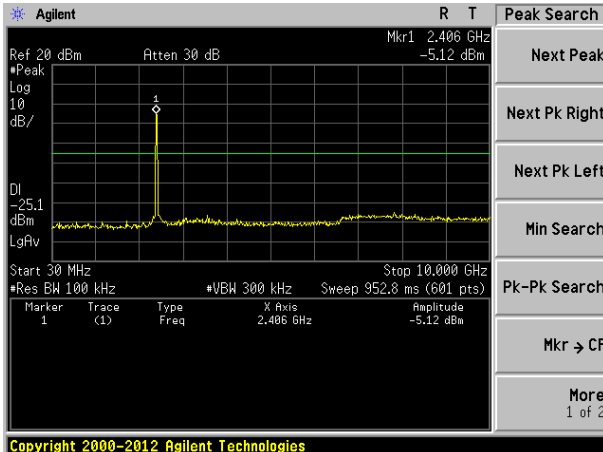
30MHz~10GHz



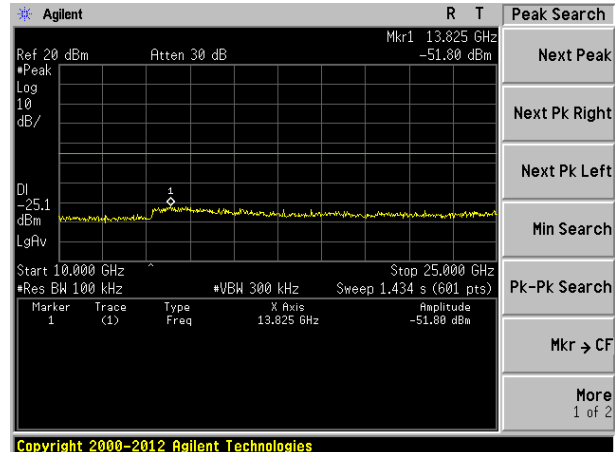
10GHz~25GHz

Test mode:	802.11n(HT20)
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## Lowest channel

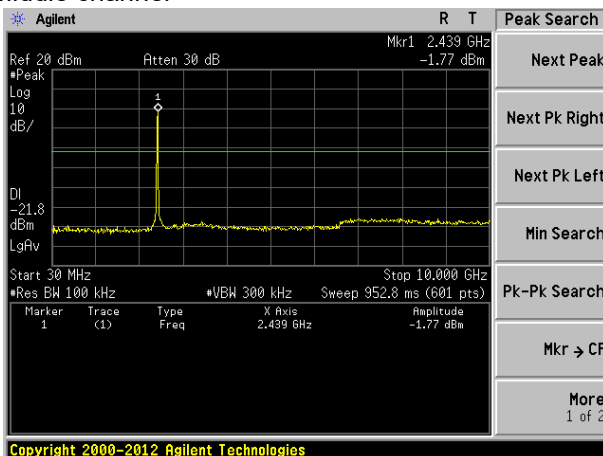


30MHz~10GHz

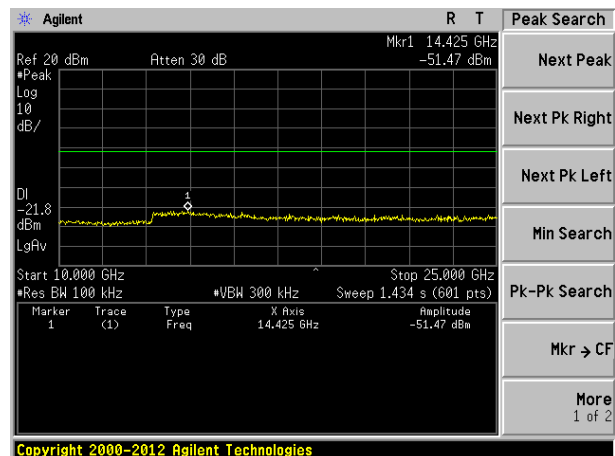


10GHz~25GHz

## Middle channel

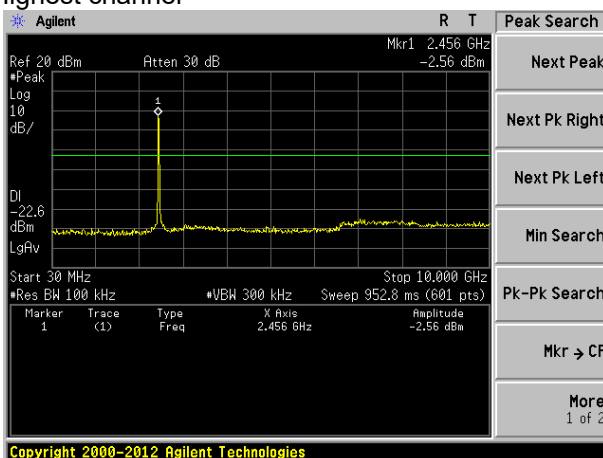


30MHz~10GHz

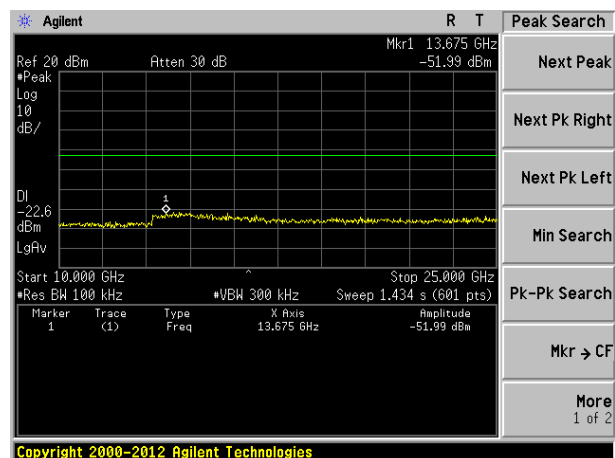


10GHz~25GHz

## Highest channel



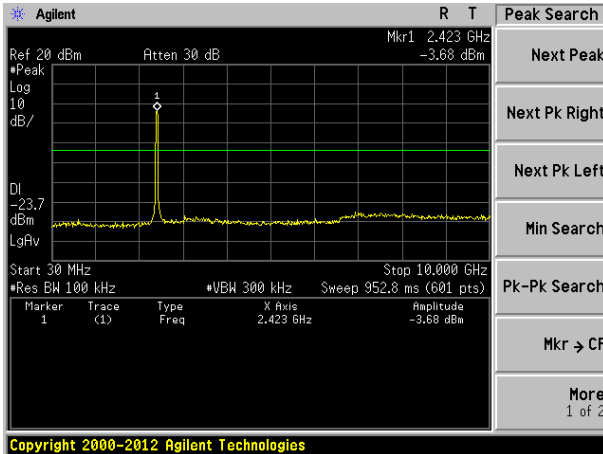
30MHz~10GHz



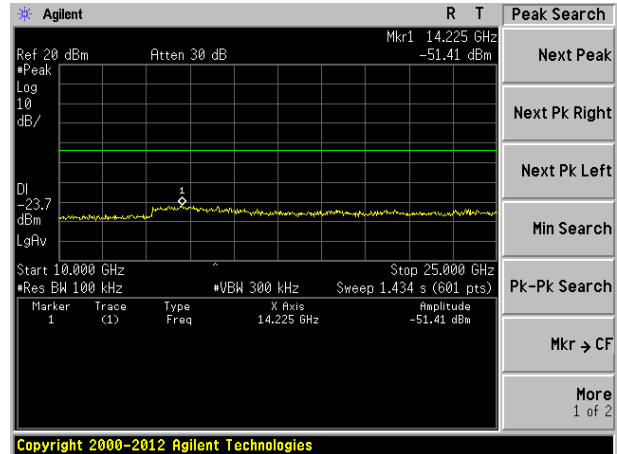
10GHz~25GHz

Test mode:	802.11n(HT40)
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## Lowest channel

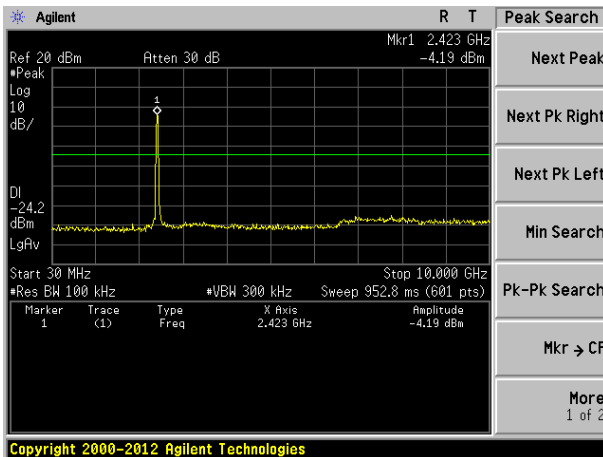


30MHz~10GHz

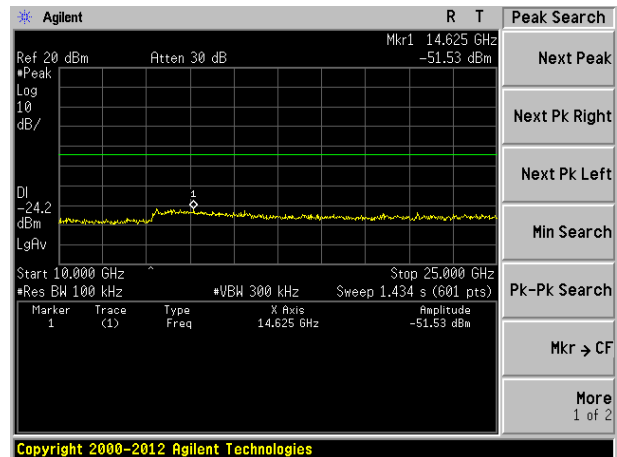


10GHz~25GHz

## Middle channel

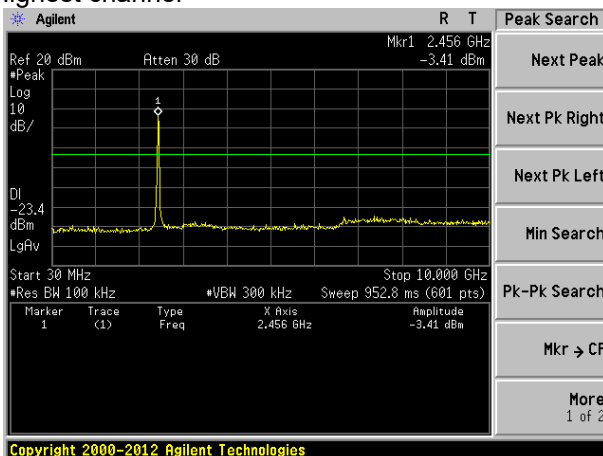


30MHz~10GHz

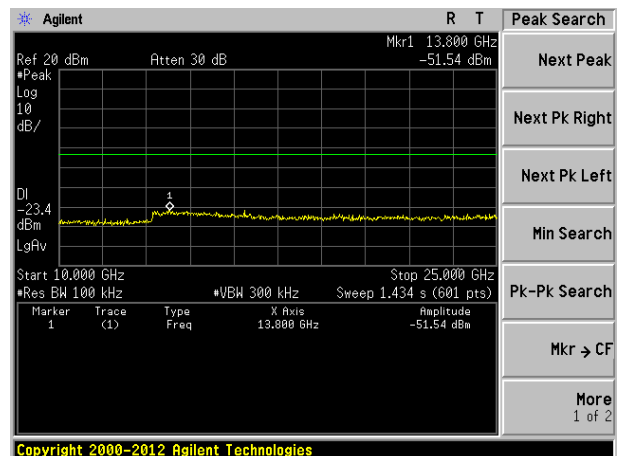


10GHz~25GHz

## Highest channel



30MHz~10GHz



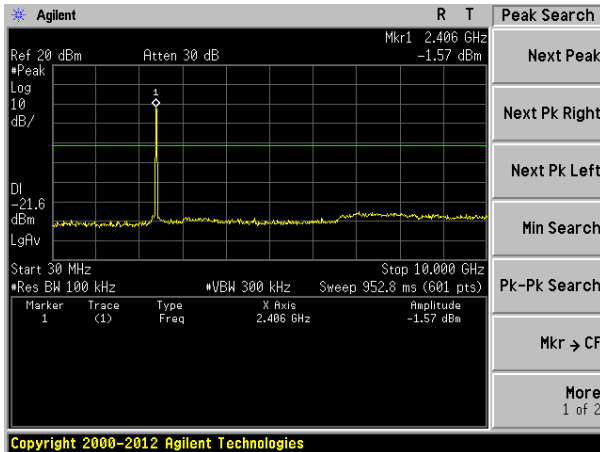
10GHz~25GHz

## Antenna 2:

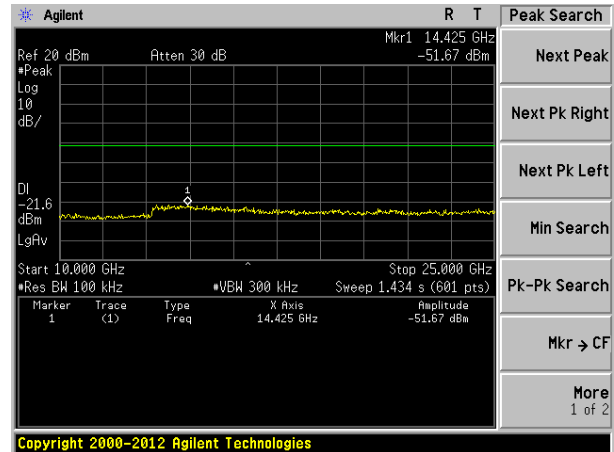
Test mode:

802.11b

### Lowest channel

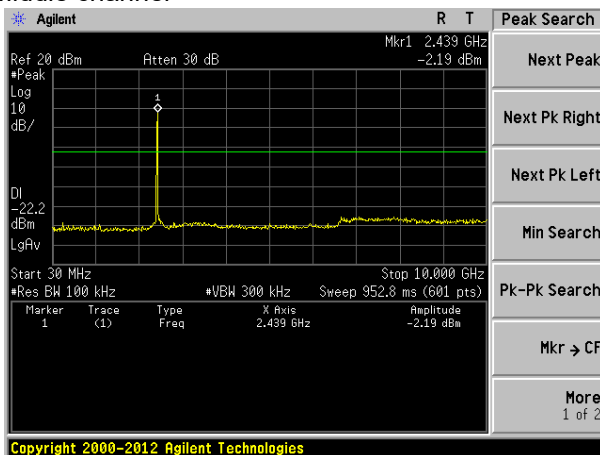


30MHz~10GHz

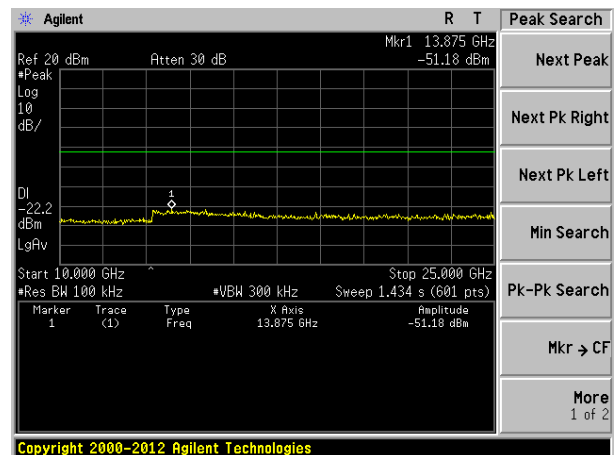


10GHz~25GHz

### Middle channel

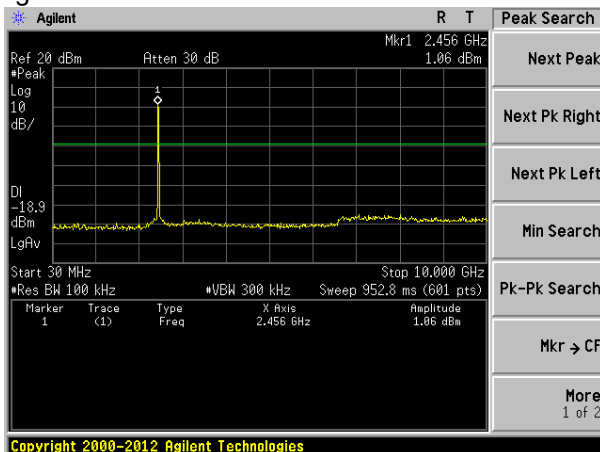


30MHz~10GHz

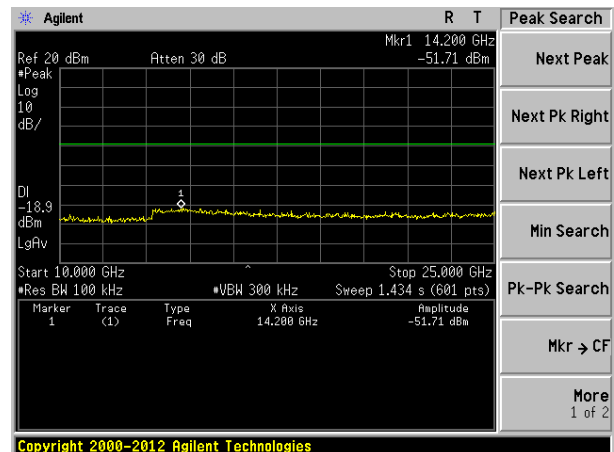


10GHz~25GHz

### Highest channel



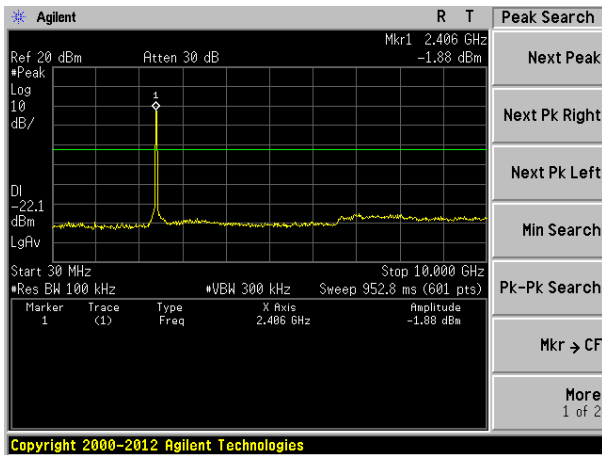
30MHz~10GHz



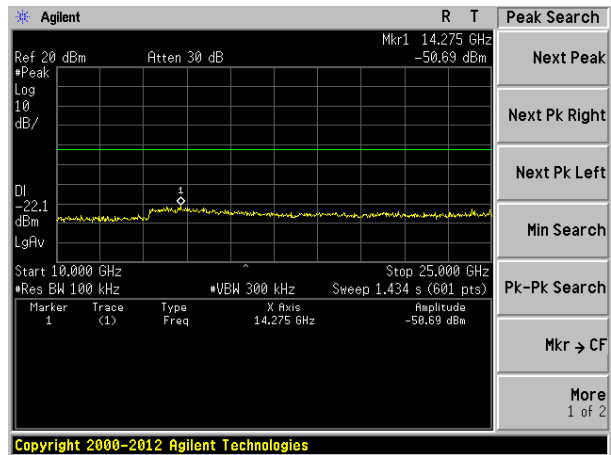
10GHz~25GHz

Test mode: 802.11g

Lowest channel

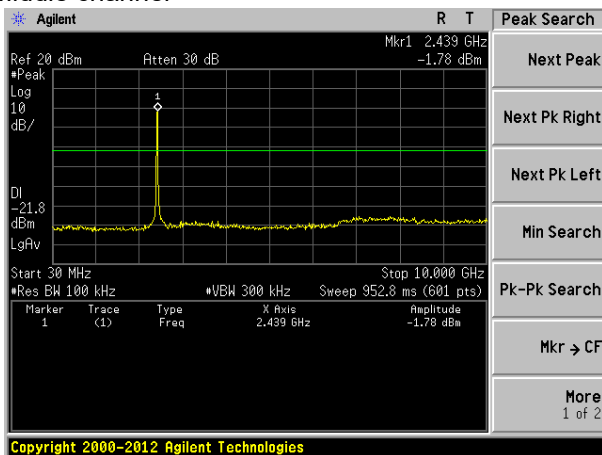


30MHz~10GHz

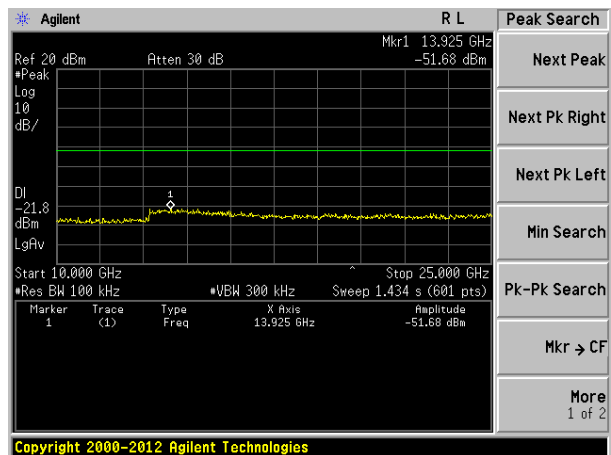


10GHz~25GHz

Middle channel

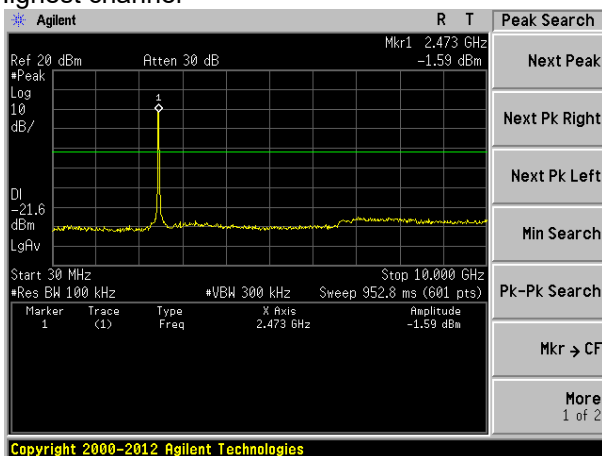


30MHz~10GHz

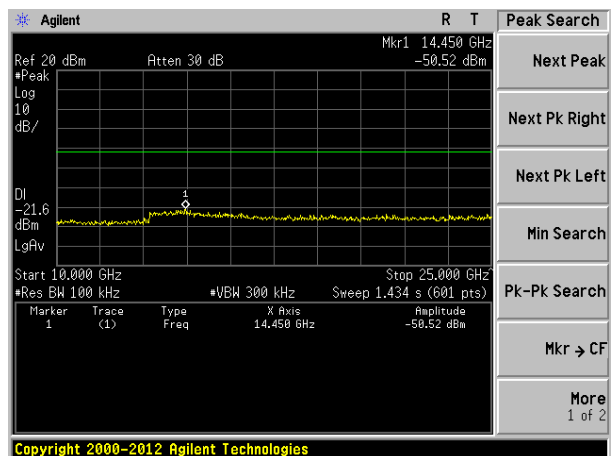


10GHz~25GHz

Highest channel



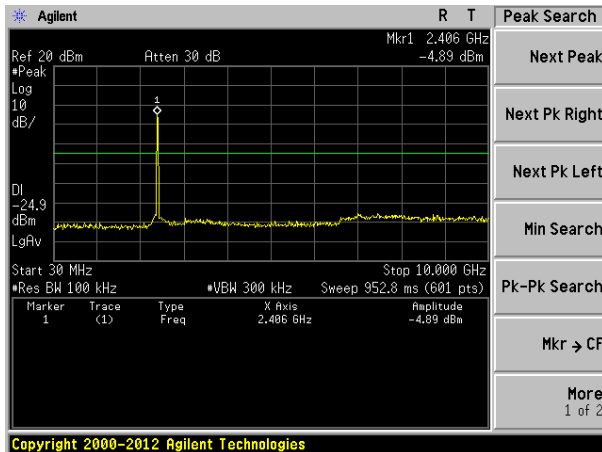
30MHz~10GHz



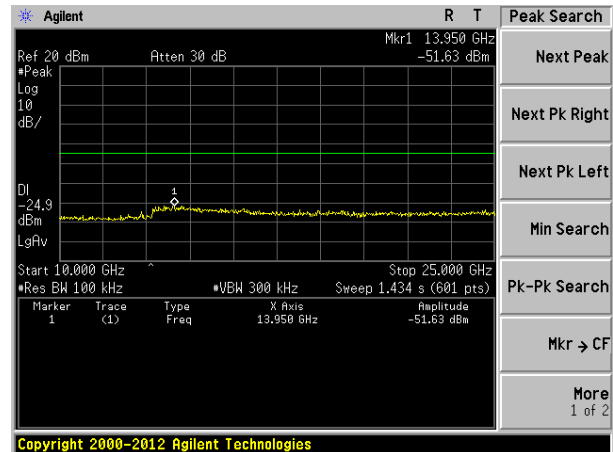
10GHz~25GHz

Test mode:	802.11n(HT20)
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## Lowest channel

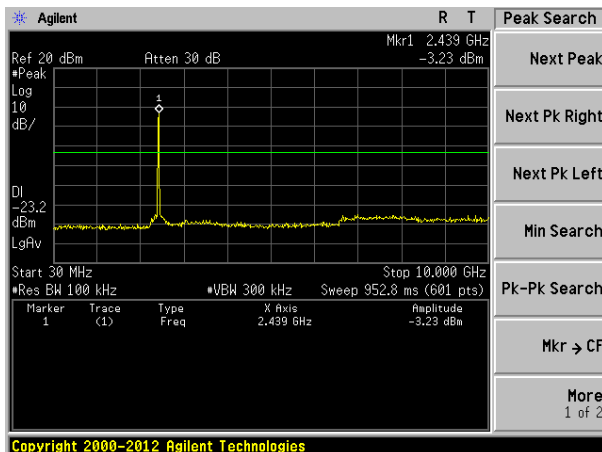


30MHz~10GHz

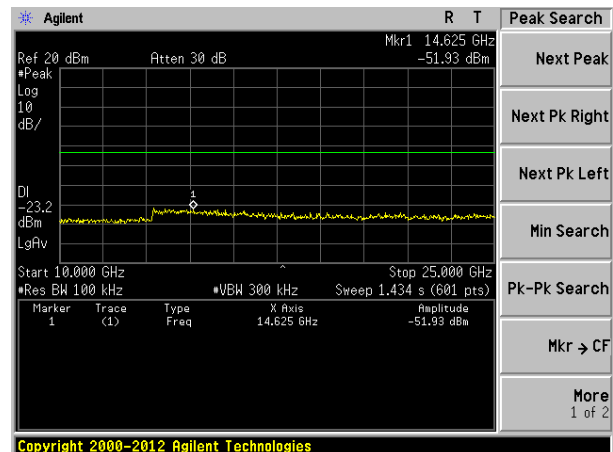


10GHz~25GHz

## Middle channel

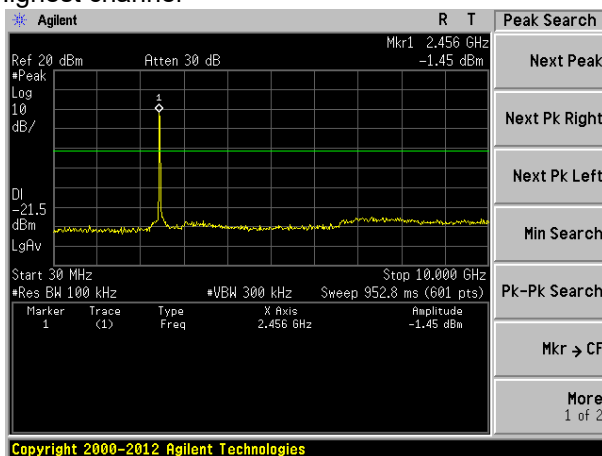


30MHz~10GHz

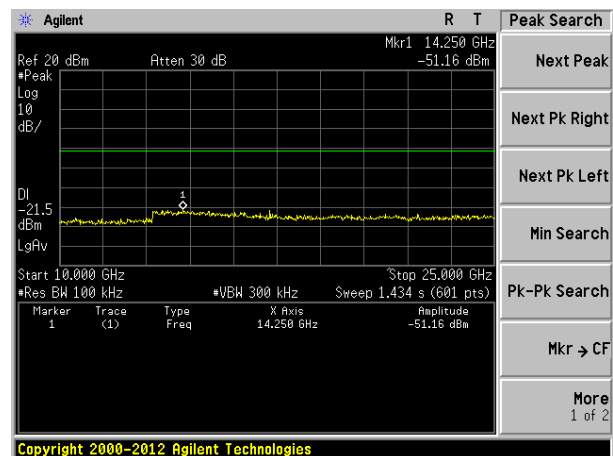


10GHz~25GHz

## Highest channel



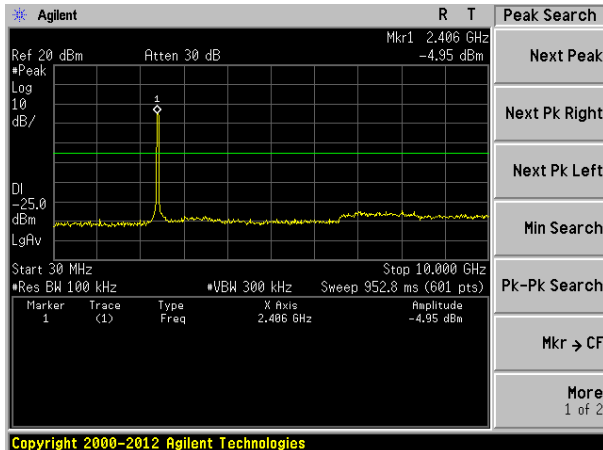
30MHz~10GHz



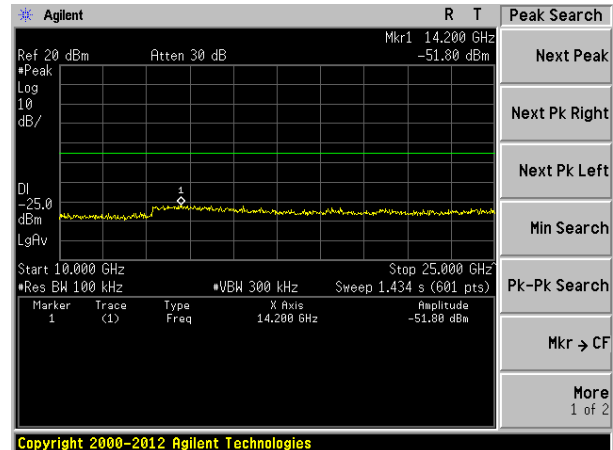
10GHz~25GHz

Test mode:	802.11n(HT40)
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## Lowest channel

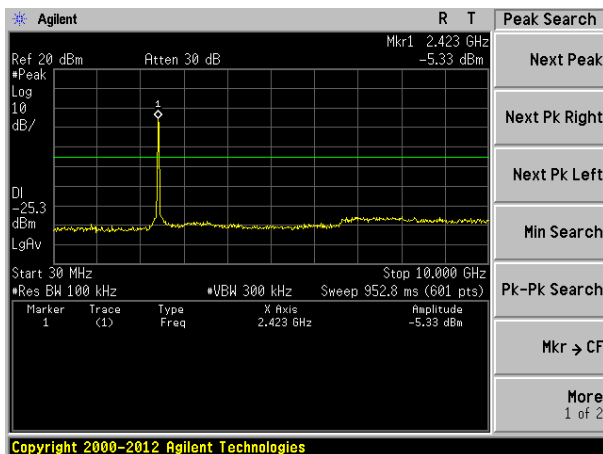


30MHz~10GHz

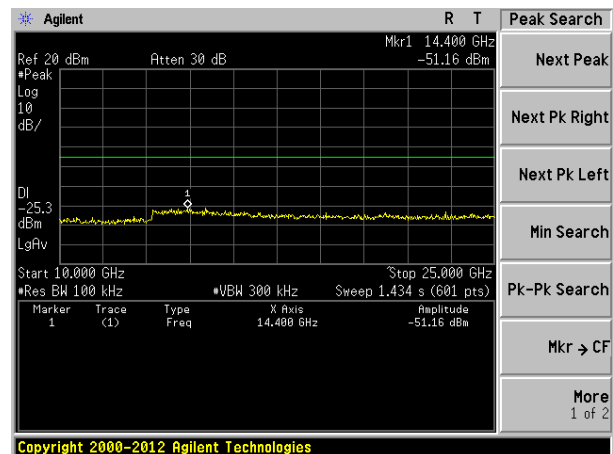


10GHz~25GHz

## Middle channel

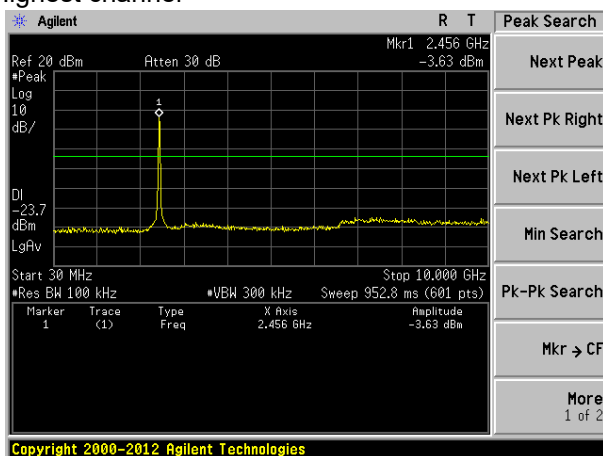


30MHz~10GHz

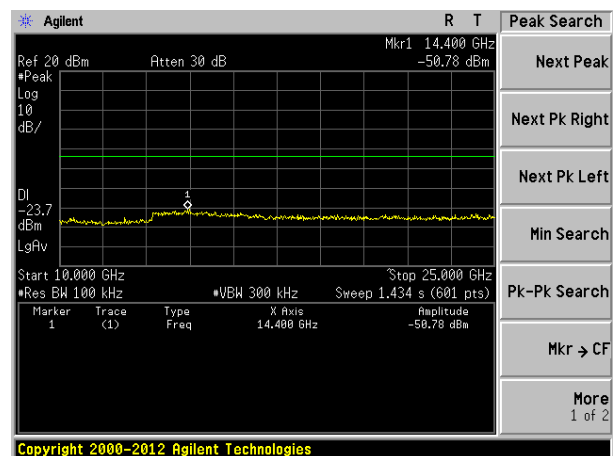


10GHz~25GHz

## Highest channel

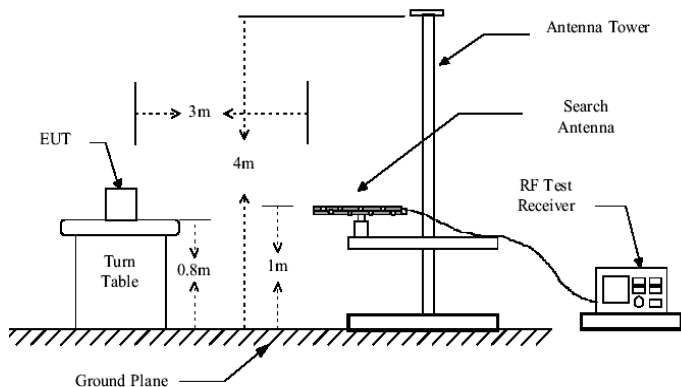
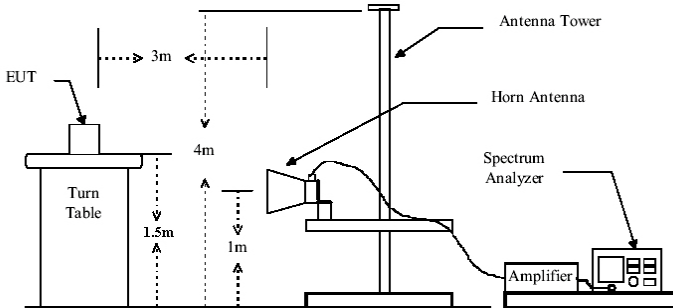


30MHz~10GHz



10GHz~25GHz

## 7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	30MHz-88MHz		40.00		Quasi-peak
	88MHz-216MHz		43.50		Quasi-peak
	216MHz-960MHz		46.00		Quasi-peak
	960MHz-1GHz		54.00		Quasi-peak
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:	Below 1GHz				
					
	Above 1GHz				
					



Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> <li>7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li> </ol>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

*Remark:*

*Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*

## Measurement Data

### ■ Below 1GHz

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
37.55	34.24	14.96	0.64	30.06	19.78	40.00	-20.22	Vertical
56.20	31.93	14.93	0.83	29.95	17.74	40.00	-22.26	Vertical
100.23	39.41	15.11	1.19	29.70	26.01	43.50	-17.49	Vertical
218.31	32.93	13.13	1.95	29.38	18.63	46.00	-27.37	Vertical
423.54	24.15	17.49	2.96	29.45	15.15	46.00	-30.85	Vertical
768.75	23.83	21.68	4.35	29.20	20.66	46.00	-25.34	Vertical
47.66	26.68	15.39	0.75	30.01	12.81	40.00	-27.19	Horizontal
69.36	26.93	10.92	0.94	29.86	8.93	40.00	-31.07	Horizontal
100.23	35.42	15.11	1.19	29.70	22.02	43.50	-21.48	Horizontal
145.35	37.48	10.23	1.54	29.43	19.82	43.50	-23.68	Horizontal
225.31	34.76	13.41	1.99	29.44	20.72	46.00	-25.28	Horizontal
724.26	24.14	21.10	4.18	29.20	20.22	46.00	-25.78	Horizontal

## ■ Above 1GHz

### 802.11b SISO mode: ANT1

Test mode:	802.11b	Test channel:	Lowest
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#### Peak value:

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	40.64	31.79	8.62	32.10	48.95	74.00	-25.05	Vertical
7236.00	34.44	36.19	11.68	31.97	50.34	74.00	-23.66	Vertical
9648.00	32.87	38.07	14.16	31.56	53.54	74.00	-20.46	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.26	31.79	8.62	32.10	47.57	74.00	-26.43	Horizontal
7236.00	34.16	36.19	11.68	31.97	50.06	74.00	-23.94	Horizontal
9648.00	32.44	38.07	14.16	31.56	53.11	74.00	-20.89	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

#### Average value:

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	29.70	31.79	8.62	32.10	38.01	54.00	-15.99	Vertical
7236.00	23.30	36.19	11.68	31.97	39.20	54.00	-14.80	Vertical
9648.00	23.21	38.07	14.16	31.56	43.88	54.00	-10.12	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.78	31.79	8.62	32.10	37.09	54.00	-16.91	Horizontal
7236.00	22.74	36.19	11.68	31.97	38.64	54.00	-15.36	Horizontal
9648.00	22.18	38.07	14.16	31.56	42.85	54.00	-11.15	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.

Test mode:	802.11b	Test channel:	Middle
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**Peak value:**

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	39.64	31.85	8.66	32.12	48.03	74.00	-25.97	Vertical
7311.00	34.47	36.37	11.71	31.91	50.64	74.00	-23.36	Vertical
9748.00	33.86	38.27	14.25	31.56	54.82	74.00	-19.18	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.07	31.85	8.66	32.12	48.46	74.00	-25.54	Horizontal
7311.00	33.09	36.37	11.71	31.91	49.26	74.00	-24.74	Horizontal
9748.00	33.74	38.27	14.25	31.56	54.70	74.00	-19.30	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

**Average value:**

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	30.47	31.85	8.66	32.12	38.86	54.00	-15.14	Vertical
7311.00	22.78	36.37	11.71	31.91	38.95	54.00	-15.05	Vertical
9748.00	23.11	38.27	14.25	31.56	44.07	54.00	-9.93	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.17	31.85	8.66	32.12	38.56	54.00	-15.44	Horizontal
7311.00	22.17	36.37	11.71	31.91	38.34	54.00	-15.66	Horizontal
9748.00	23.45	38.27	14.25	31.56	44.41	54.00	-9.59	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.

Test mode:	802.11b	Test channel:	Highest
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**Peak value:**

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	45.38	31.90	8.70	32.15	53.83	74.00	-20.17	Vertical
7386.00	35.28	36.49	11.76	31.83	51.70	74.00	-22.30	Vertical
9848.00	37.25	38.62	14.31	31.77	58.41	74.00	-15.59	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.60	31.90	8.70	32.15	53.05	74.00	-20.95	Horizontal
7386.00	34.14	36.49	11.76	31.83	50.56	74.00	-23.44	Horizontal
9848.00	33.41	38.62	14.31	31.77	54.57	74.00	-19.43	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

**Average value:**

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	36.25	31.90	8.70	32.15	44.70	54.00	-9.30	Vertical
7386.00	25.18	36.49	11.76	31.83	41.60	54.00	-12.40	Vertical
9848.00	25.75	38.62	14.31	31.77	46.91	54.00	-7.09	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.94	31.90	8.70	32.15	43.39	54.00	-10.61	Horizontal
7386.00	23.52	36.49	11.76	31.83	39.94	54.00	-14.06	Horizontal
9848.00	22.66	38.62	14.31	31.77	43.82	54.00	-10.18	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.

## 802.11b SISO mode: ANT2

Test mode:	802.11b	Test channel:	Lowest
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### Peak value:

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
4824.00	41.57	31.79	8.62	32.10	49.88	74.00	-24.12	Vertical
7236.00	35.03	36.19	11.68	31.97	50.93	74.00	-23.07	Vertical
9648.00	33.29	38.07	14.16	31.56	53.96	74.00	-20.04	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	40.04	31.79	8.62	32.10	48.35	74.00	-25.65	Horizontal
7236.00	34.67	36.19	11.68	31.97	50.57	74.00	-23.43	Horizontal
9648.00	32.83	38.07	14.16	31.56	53.50	74.00	-20.50	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

### Average value:

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
4824.00	30.56	31.79	8.62	32.10	38.87	54.00	-15.13	Vertical
7236.00	23.87	36.19	11.68	31.97	39.77	54.00	-14.23	Vertical
9648.00	23.61	38.07	14.16	31.56	44.28	54.00	-9.72	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	29.52	31.79	8.62	32.10	37.83	54.00	-16.17	Horizontal
7236.00	23.24	36.19	11.68	31.97	39.14	54.00	-14.86	Horizontal
9648.00	22.55	38.07	14.16	31.56	43.22	54.00	-10.78	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.

Test mode:	802.11b	Test channel:	Middle
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**Peak value:**

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	40.41	31.85	8.66	32.12	48.80	74.00	-25.20	Vertical
7311.00	34.96	36.37	11.71	31.91	51.13	74.00	-22.87	Vertical
9748.00	34.21	38.27	14.25	31.56	55.17	74.00	-18.83	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.72	31.85	8.66	32.12	49.11	74.00	-24.89	Horizontal
7311.00	33.51	36.37	11.71	31.91	49.68	74.00	-24.32	Horizontal
9748.00	34.06	38.27	14.25	31.56	55.02	74.00	-18.98	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

**Average value:**

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	31.18	31.85	8.66	32.12	39.57	54.00	-14.43	Vertical
7311.00	23.25	36.37	11.71	31.91	39.42	54.00	-14.58	Vertical
9748.00	23.44	38.27	14.25	31.56	44.40	54.00	-9.60	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.78	31.85	8.66	32.12	39.17	54.00	-14.83	Horizontal
7311.00	22.58	36.37	11.71	31.91	38.75	54.00	-15.25	Horizontal
9748.00	23.76	38.27	14.25	31.56	44.72	54.00	-9.28	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.

Test mode:	802.11b	Test channel:	Highest
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**Peak value:**

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
4924.00	46.70	31.90	8.70	32.15	55.15	74.00	-18.85	Vertical
7386.00	36.12	36.49	11.76	31.83	52.54	74.00	-21.46	Vertical
9848.00	37.85	38.62	14.31	31.77	59.01	74.00	-14.99	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	45.72	31.90	8.70	32.15	54.17	74.00	-19.83	Horizontal
7386.00	34.87	36.49	11.76	31.83	51.29	74.00	-22.71	Horizontal
9848.00	33.96	38.62	14.31	31.77	55.12	74.00	-18.88	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

**Average value:**

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
4924.00	37.47	31.90	8.70	32.15	45.92	54.00	-8.08	Vertical
7386.00	25.99	36.49	11.76	31.83	42.41	54.00	-11.59	Vertical
9848.00	26.32	38.62	14.31	31.77	47.48	54.00	-6.52	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.99	31.90	8.70	32.15	44.44	54.00	-9.56	Horizontal
7386.00	24.23	36.49	11.76	31.83	40.65	54.00	-13.35	Horizontal
9848.00	23.19	38.62	14.31	31.77	44.35	54.00	-9.65	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.



## 802.11g SISO mode: ANT1

Test mode:	802.11g	Test channel:	lowest
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### Peak value:

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	39.78	31.79	8.62	32.10	48.09	74.00	-25.91	Vertical
7236.00	33.89	36.19	11.68	31.97	49.79	74.00	-24.21	Vertical
9648.00	32.48	38.07	14.16	31.56	53.15	74.00	-20.85	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.53	31.79	8.62	32.10	46.84	74.00	-27.16	Horizontal
7236.00	33.68	36.19	11.68	31.97	49.58	74.00	-24.42	Horizontal
9648.00	32.08	38.07	14.16	31.56	52.75	74.00	-21.25	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

### Average value:

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	28.90	31.79	8.62	32.10	37.21	54.00	-16.79	Vertical
7236.00	22.77	36.19	11.68	31.97	38.67	54.00	-15.33	Vertical
9648.00	22.84	38.07	14.16	31.56	43.51	54.00	-10.49	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.09	31.79	8.62	32.10	36.40	54.00	-17.60	Horizontal
7236.00	22.27	36.19	11.68	31.97	38.17	54.00	-15.83	Horizontal
9648.00	21.83	38.07	14.16	31.56	42.50	54.00	-11.50	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.

Test mode:	802.11g	Test channel:	Middle
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**Peak value:**

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	38.92	31.85	8.66	32.12	47.31	74.00	-26.69	Vertical
7311.00	34.02	36.37	11.71	31.91	50.19	74.00	-23.81	Vertical
9748.00	33.54	38.27	14.25	31.56	54.50	74.00	-19.50	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.47	31.85	8.66	32.12	47.86	74.00	-26.14	Horizontal
7311.00	32.69	36.37	11.71	31.91	48.86	74.00	-25.14	Horizontal
9748.00	33.44	38.27	14.25	31.56	54.40	74.00	-19.60	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

**Average value:**

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	29.81	31.85	8.66	32.12	38.20	54.00	-15.80	Vertical
7311.00	22.34	36.37	11.71	31.91	38.51	54.00	-15.49	Vertical
9748.00	22.80	38.27	14.25	31.56	43.76	54.00	-10.24	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.60	31.85	8.66	32.12	37.99	54.00	-16.01	Horizontal
7311.00	21.79	36.37	11.71	31.91	37.96	54.00	-16.04	Horizontal
9748.00	23.16	38.27	14.25	31.56	44.12	54.00	-9.88	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.

Test mode:	802.11g	Test channel:	Highest
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## Peak value:

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
4924.00	44.14	31.90	8.70	32.15	52.59	74.00	-21.41	Vertical
7386.00	34.50	36.49	11.76	31.83	50.92	74.00	-23.08	Vertical
9848.00	36.70	38.62	14.31	31.77	57.86	74.00	-16.14	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.56	31.90	8.70	32.15	52.01	74.00	-21.99	Horizontal
7386.00	33.46	36.49	11.76	31.83	49.88	74.00	-24.12	Horizontal
9848.00	32.89	38.62	14.31	31.77	54.05	74.00	-19.95	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

## Average value:

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
4924.00	35.12	31.90	8.70	32.15	43.57	54.00	-10.43	Vertical
7386.00	24.43	36.49	11.76	31.83	40.85	54.00	-13.15	Vertical
9848.00	25.21	38.62	14.31	31.77	46.37	54.00	-7.63	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.97	31.90	8.70	32.15	42.42	54.00	-11.58	Horizontal
7386.00	22.86	36.49	11.76	31.83	39.28	54.00	-14.72	Horizontal
9848.00	22.16	38.62	14.31	31.77	43.32	54.00	-10.68	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.

## 802.11g SISO mode: ANT2

Test mode:	802.11g	Test channel:	lowest
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### Peak value:

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	40.33	31.79	8.62	32.10	48.64	74.00	-25.36	Vertical
7236.00	34.24	36.19	11.68	31.97	50.14	74.00	-23.86	Vertical
9648.00	32.73	38.07	14.16	31.56	53.40	74.00	-20.60	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.00	31.79	8.62	32.10	47.31	74.00	-26.69	Horizontal
7236.00	33.99	36.19	11.68	31.97	49.89	74.00	-24.11	Horizontal
9648.00	32.31	38.07	14.16	31.56	52.98	74.00	-21.02	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

### Average value:

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	29.41	31.79	8.62	32.10	37.72	54.00	-16.28	Vertical
7236.00	23.11	36.19	11.68	31.97	39.01	54.00	-14.99	Vertical
9648.00	23.08	38.07	14.16	31.56	43.75	54.00	-10.25	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.53	31.79	8.62	32.10	36.84	54.00	-17.16	Horizontal
7236.00	22.57	36.19	11.68	31.97	38.47	54.00	-15.53	Horizontal
9648.00	22.05	38.07	14.16	31.56	42.72	54.00	-11.28	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.

Test mode:	802.11g	Test channel:	Middle
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## Peak value:

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	39.38	31.85	8.66	32.12	47.77	74.00	-26.23	Vertical
7311.00	34.31	36.37	11.71	31.91	50.48	74.00	-23.52	Vertical
9748.00	33.75	38.27	14.25	31.56	54.71	74.00	-19.29	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.86	31.85	8.66	32.12	48.25	74.00	-25.75	Horizontal
7311.00	32.94	36.37	11.71	31.91	49.11	74.00	-24.89	Horizontal
9748.00	33.63	38.27	14.25	31.56	54.59	74.00	-19.41	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

## Average value:

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	30.23	31.85	8.66	32.12	38.62	54.00	-15.38	Vertical
7311.00	22.62	36.37	11.71	31.91	38.79	54.00	-15.21	Vertical
9748.00	23.00	38.27	14.25	31.56	43.96	54.00	-10.04	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.96	31.85	8.66	32.12	38.35	54.00	-15.65	Horizontal
7311.00	22.04	36.37	11.71	31.91	38.21	54.00	-15.79	Horizontal
9748.00	23.34	38.27	14.25	31.56	44.30	54.00	-9.70	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 – Pre-amplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11g	Test channel:	Highest
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**Peak value:**

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
4924.00	44.93	31.90	8.70	32.15	53.38	74.00	-20.62	Vertical
7386.00	35.00	36.49	11.76	31.83	51.42	74.00	-22.58	Vertical
9848.00	37.06	38.62	14.31	31.77	58.22	74.00	-15.78	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.23	31.90	8.70	32.15	52.68	74.00	-21.32	Horizontal
7386.00	33.90	36.49	11.76	31.83	50.32	74.00	-23.68	Horizontal
9848.00	33.22	38.62	14.31	31.77	54.38	74.00	-19.62	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

**Average value:**

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
4924.00	35.85	31.90	8.70	32.15	44.30	54.00	-9.70	Vertical
7386.00	24.91	36.49	11.76	31.83	41.33	54.00	-12.67	Vertical
9848.00	25.55	38.62	14.31	31.77	46.71	54.00	-7.29	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.59	31.90	8.70	32.15	43.04	54.00	-10.96	Horizontal
7386.00	23.28	36.49	11.76	31.83	39.70	54.00	-14.30	Horizontal
9848.00	22.48	38.62	14.31	31.77	43.64	54.00	-10.36	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.

## 802.11n MIMO mode: ANT1+ANT2

Test mode:	802.11n(HT20)	Test channel:	Lowest
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### Peak value:

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	40.44	31.79	8.62	32.10	48.75	74.00	-25.25	Vertical
7236.00	34.31	36.19	11.68	31.97	50.21	74.00	-23.79	Vertical
9648.00	32.78	38.07	14.16	31.56	53.45	74.00	-20.55	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.09	31.79	8.62	32.10	47.40	74.00	-26.60	Horizontal
7236.00	34.05	36.19	11.68	31.97	49.95	74.00	-24.05	Horizontal
9648.00	32.35	38.07	14.16	31.56	53.02	74.00	-20.98	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

### Average value:

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	29.51	31.79	8.62	32.10	37.82	54.00	-16.18	Vertical
7236.00	23.18	36.19	11.68	31.97	39.08	54.00	-14.92	Vertical
9648.00	23.12	38.07	14.16	31.56	43.79	54.00	-10.21	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.62	31.79	8.62	32.10	36.93	54.00	-17.07	Horizontal
7236.00	22.63	36.19	11.68	31.97	38.53	54.00	-15.47	Horizontal
9648.00	22.10	38.07	14.16	31.56	42.77	54.00	-11.23	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.

Test mode:	802.11n(HT20)	Test channel:	Middle
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**Peak value:**

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
4874.00	39.47	31.85	8.66	32.12	47.86	74.00	-26.14	Vertical
7311.00	34.37	36.37	11.71	31.91	50.54	74.00	-23.46	Vertical
9748.00	33.79	38.27	14.25	31.56	54.75	74.00	-19.25	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.93	31.85	8.66	32.12	48.32	74.00	-25.68	Horizontal
7311.00	33.00	36.37	11.71	31.91	49.17	74.00	-24.83	Horizontal
9748.00	33.67	38.27	14.25	31.56	54.63	74.00	-19.37	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

**Average value:**

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
4874.00	30.32	31.85	8.66	32.12	38.71	54.00	-15.29	Vertical
7311.00	22.68	36.37	11.71	31.91	38.85	54.00	-15.15	Vertical
9748.00	23.04	38.27	14.25	31.56	44.00	54.00	-10.00	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.04	31.85	8.66	32.12	38.43	54.00	-15.57	Horizontal
7311.00	22.08	36.37	11.71	31.91	38.25	54.00	-15.75	Horizontal
9748.00	23.39	38.27	14.25	31.56	44.35	54.00	-9.65	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.



Test mode:	802.11n(HT20)	Test channel:	Highest
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## Peak value:

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	45.09	31.90	8.70	32.15	53.54	74.00	-20.46	4924.00
7386.00	35.10	36.49	11.76	31.83	51.52	74.00	-22.48	7386.00
9848.00	37.12	38.62	14.31	31.77	58.28	74.00	-15.72	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.36	31.90	8.70	32.15	52.81	74.00	-21.19	Horizontal
7386.00	33.98	36.49	11.76	31.83	50.40	74.00	-23.60	Horizontal
9848.00	33.29	38.62	14.31	31.77	54.45	74.00	-19.55	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

## Average value:

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	35.99	31.90	8.70	32.15	44.44	54.00	-9.56	Vertical
7386.00	25.01	36.49	11.76	31.83	41.43	54.00	-12.57	Vertical
9848.00	25.62	38.62	14.31	31.77	46.78	54.00	-7.22	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.72	31.90	8.70	32.15	43.17	54.00	-10.83	Horizontal
7386.00	23.37	36.49	11.76	31.83	39.79	54.00	-14.21	Horizontal
9848.00	22.54	38.62	14.31	31.77	43.70	54.00	-10.30	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.

Test mode:	802.11n(HT40)	Test channel:	Lowest
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## Peak value:

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
4844.00	39.41	31.81	8.63	32.11	47.74	74.00	-26.26	Vertical
7266.00	33.66	36.28	11.69	31.94	49.69	74.00	-24.31	Vertical
9688.00	32.31	38.13	14.21	31.52	53.13	74.00	-20.87	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	38.21	31.81	8.63	32.11	46.54	74.00	-27.46	Horizontal
7266.00	33.48	36.28	11.69	31.94	49.51	74.00	-24.49	Horizontal
9688.00	31.92	38.13	14.21	31.52	52.74	74.00	-21.26	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

## Average value:

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
4844.00	28.56	31.81	8.63	32.11	36.89	54.00	-17.11	Vertical
7266.00	22.54	36.28	11.69	31.94	38.57	54.00	-15.43	Vertical
9688.00	22.68	38.13	14.21	31.52	43.50	54.00	-10.50	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.80	31.81	8.63	32.11	36.13	54.00	-17.87	Horizontal
7266.00	22.07	36.28	11.69	31.94	38.10	54.00	-15.90	Horizontal
9688.00	21.68	38.13	14.21	31.52	42.50	54.00	-11.50	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.

Test mode:	802.11n(HT40)	Test channel:	Middle
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## Peak value:

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	38.62	31.85	8.66	32.12	47.01	74.00	-26.99	Vertical
7311.00	33.83	36.37	11.71	31.91	50.00	74.00	-24.00	Vertical
9748.00	33.40	38.27	14.25	31.56	54.36	74.00	-19.64	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.21	31.85	8.66	32.12	47.60	74.00	-26.40	Horizontal
7311.00	32.52	36.37	11.71	31.91	48.69	74.00	-25.31	Horizontal
9748.00	33.32	38.27	14.25	31.56	54.28	74.00	-19.72	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

## Average value:

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	29.53	31.85	8.66	32.12	37.92	54.00	-16.08	Vertical
7311.00	22.16	36.37	11.71	31.91	38.33	54.00	-15.67	Vertical
9748.00	22.67	38.27	14.25	31.56	43.63	54.00	-10.37	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.36	31.85	8.66	32.12	37.75	54.00	-16.25	Horizontal
7311.00	21.62	36.37	11.71	31.91	37.79	54.00	-16.21	Horizontal
9748.00	23.04	38.27	14.25	31.56	44.00	54.00	-10.00	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.

Test mode:	802.11n(HT40)	Test channel:	Highest
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## Peak value:

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
4904.00	43.61	31.88	8.68	32.13	52.04	74.00	-21.96	Vertical
7356.00	34.16	36.45	11.75	31.86	50.50	74.00	-23.50	Vertical
9808.00	36.46	38.43	14.29	31.68	57.50	74.00	-16.50	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	43.12	31.88	8.68	32.13	51.55	74.00	-22.45	Horizontal
7356.00	33.17	36.45	11.75	31.86	49.51	74.00	-24.49	Horizontal
9808.00	32.67	38.43	14.29	31.68	53.71	74.00	-20.29	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

## Average value:

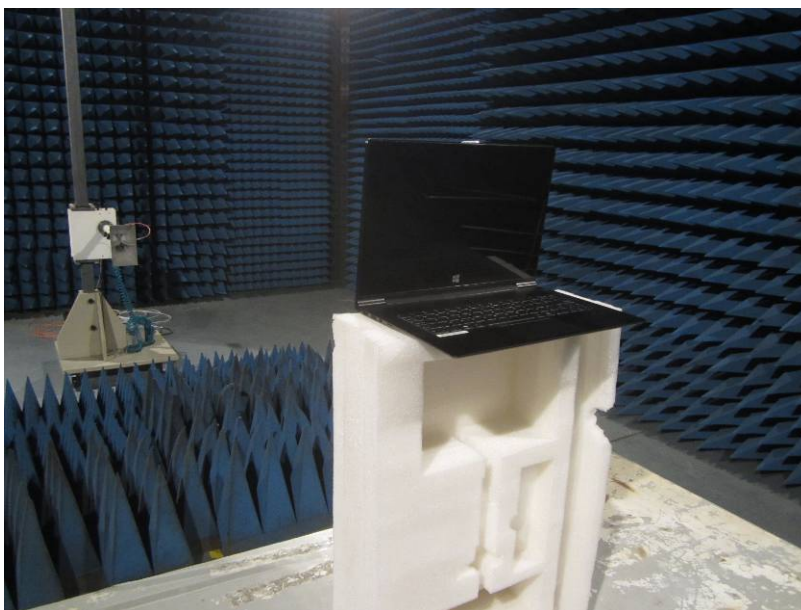
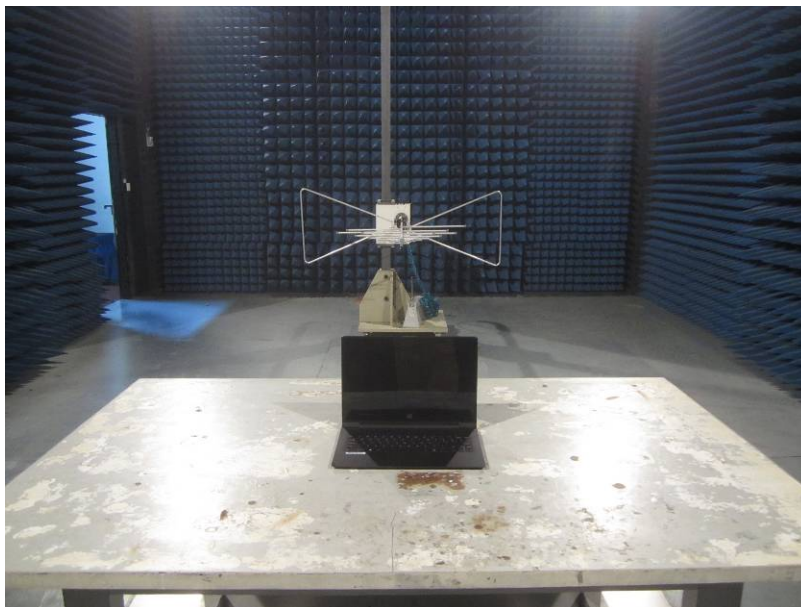
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	34.63	31.88	8.68	32.13	43.06	54.00	-10.94	Vertical
7356.00	24.11	36.45	11.75	31.86	40.45	54.00	-13.55	Vertical
9808.00	24.98	38.43	14.29	31.68	46.02	54.00	-7.98	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.55	31.88	8.68	32.13	41.98	54.00	-12.02	Horizontal
7356.00	22.58	36.45	11.75	31.86	38.92	54.00	-15.08	Horizontal
9808.00	21.95	38.43	14.29	31.68	42.99	54.00	-11.01	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.

## 8 Test Setup Photo

Radiated Emission



## Conducted Emission



## 9 EUT Constructional Details

Reference to the test report No. GTSE15060113801

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