

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT****INTENTIONAL RADIATOR CERTIFICATION TO  
FCC PART 15 SUBPART C REQUIREMENT  
AND INDUSTRY CANADA RSS-210**

OF

**Product Name:** 802.11n USB Client Adaptor

**Brand Name:** Accton

**Model Name:** WM6618R-FLF-ZZ

**IC Number:** 3857A-WM6618R

**FCC ID Number:** HEDWM6618R

**Report Number:** ER-2007-90020

**Issue Date:** Sep. 20, 2007

**Rule Part:** FCC §15.247, RSS 210, Issue 6, Annex 8

**Prepared for:** Accton Technology Corporation  
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**Prepared by:** SGS Taiwan Ltd.  
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Taipei County, Taiwan.



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## VERIFICATION OF COMPLIANCE

**Applicant:** Accton Technology Corporation  
No.1 Creation 3rd Rd., Science-based Industrial Park, Hsinchu 30077,  
Taiwan, R.O.C.

**Equipment Under Test:** 802.11n USB Client Adaptor

**Brand Name:** Accton

**IC Number:** 3857A-WM6618R

**FCC ID Number:** HEDWM6618R

**Model Number:** WM6618R-FLF-ZZ

**Model Difference:** N/A

**File Number:** EF/2007/90020


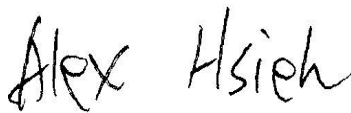

**Date of test:** Sep. 11, 2007 ~ Sep. 19, 2007

**Date of EUT Received:** Sep. 10, 2007

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15C:2005, §15.247 and RSS-210 issue 6: 2005 Annex 8.

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

<b>Test By:</b>		<b>Date</b>	Sep. 20, 2007
	<i>Jason Wu / Sr. Engineer</i>		
<b>Prepared By:</b>		<b>Date</b>	Sep. 20, 2007
	<i>Alex Hsieh / Sr. Engineer</i>		
<b>Approved By:</b>		<b>Date</b>	Sep. 20, 2007
	<i>Vincent Su/Manager</i>		

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## Version

Version No.	Date
00	Sep. 20, 2007
01	Sep. 26, 2007

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## 1. GENERAL INFORMATION

### 1.1 Product Description

#### General:

Product Name:	802.11n USB Client Adaptor
Brand Name	N/A
Model Name:	WM6618R-FLF-ZZ
Model Difference:	N/A
Power Supply	5Vdc
Hardware Version	R01
Software Version	1.0.4.0

#### 802.11 b/g/n WLAN:

Frequency Range & Channel number	802.11 b/g/n_20MHz: 2412 – 2462 MHz, 11 channels 802.11 n_40MHz: 2422 – 2452 MHz, 7 channels
Rated Power	802.11 b: 17.5 +/- 1 dBm 802.11 g: 14.5 +/- 1 dBm 802.11 n_20MHz: 14.5 +/- 1 dBm 802.11 n_40MHz: 14.5 +/- 1 dBm
Modulation type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 b: 1/2/5.5/11/54 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 - 65Mbps 802.11 n_40MHz: 6.5 - 65Mbps
Antenna Designation	PIFA Antenna, +2dBi
Type of Emission	802.11 b: 15M3G1D 802.11 g: 16M5D1D 802.11 n_20MHz: 17M6 D1D 802.11 n_40MHz: 36M2D1D

The EUT is compliance with IEEE 802.11 b/g/n Standard.

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## 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **HEDWM6618R** filing to comply with Section 15.247 of the FCC Part 15C: 2005, Subpart C Rules. And IC: **3857A-WM6618R** filing to comply with Industry Canada RSS-210 issue 6: 2005 Annex 8.

## 1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003) and RSS-Gen: 2005. Radiated testing was performed at an antenna to EUT distance 3 meters.

## 1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by TAF (0513). Canada Registration Number: 4620A-1

## 1.5 Special Accessories

Not available for this EUT intended for grant.

## 1.6 Equipment Modifications

Not available for this EUT intended for grant.

## 2. SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003 and RSS-Gen: 2005. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

#### 2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003 and RSS-Gen:2005.



## 2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

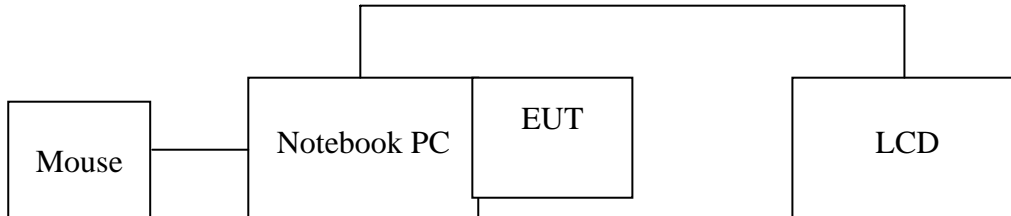


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	IBM	T2367	N/A	Shielding	Un-shielding
2.	LCD	DELL	E153FP	N/A	N/A	Un-shielding
3.	Mouse	Acrox	MVI	S07A03264	N/A	N/A

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### 3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)/ RSS-Gen	AC Power Line Conducted Emission	Compliant
§15.247(b)/ §RSS-210, A8.4(4)	Peak Output Power	Compliant
§15.247(b)/ §RSS-210, A8.2	6dB Bandwidth	Compliant
§15.247(c) §RSS-210, A8.5	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(c) §RSS-210, A8.5	Spurious Emission	Compliant
§15.247 §RSS-210, A8.2(2)	Peak Power Density	Compliant
RSS-Gen§4.4.1	99% Power Bandwidth	Compliant
§15.203 §RSS-210, A8.4	Antenna Requirement	Compliant

### 4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program was used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

802.11 b mode: Channel low (2412MHz)、mid (2437MHz) and high (2462MHz) with 1 and 11Mbps data rate were chosen for full testing. The Worst case 11Mbps was reported for radiated spurious emission.

802.11 g mode: Channel low (2412MHz)、mid (2437MHz) and high (2462MHz) with 6 and 54Mbps data rate were chosen for full testing. The Worst case 54Mbps was reported for radiated spurious emission.

802.11 n\_20M mode: Channel low (2412MHz)、mid (2437MHz) and high (2462MHz) with 6.5 and 65Mbps data rate were chosen for full testing. The Worst case 65Mbps was reported for radiated spurious emission.

802.11 n\_40M mode: Channel low (2422MHz)、mid (2437MHz) and high (2452MHz) with 6.5 and 65Mbps data rate were chosen for full testing. The Worst case 65Mbps was reported for radiated

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## 5. CONDUCTED EMISSION TEST

### 5.1 Standard Applicable

According to §15.207, frequency within 150KHz to 30MHz shall not exceed the Limit table as below.

According to section RSS-Gen 7.2.2, Transmitter AC Wire line Conducted Emissions. Limits is as following.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

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

### 5.2 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2003.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 110Vac/60Hz power source.

### 5.3 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

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## 5.4 Measurement Equipment Used:

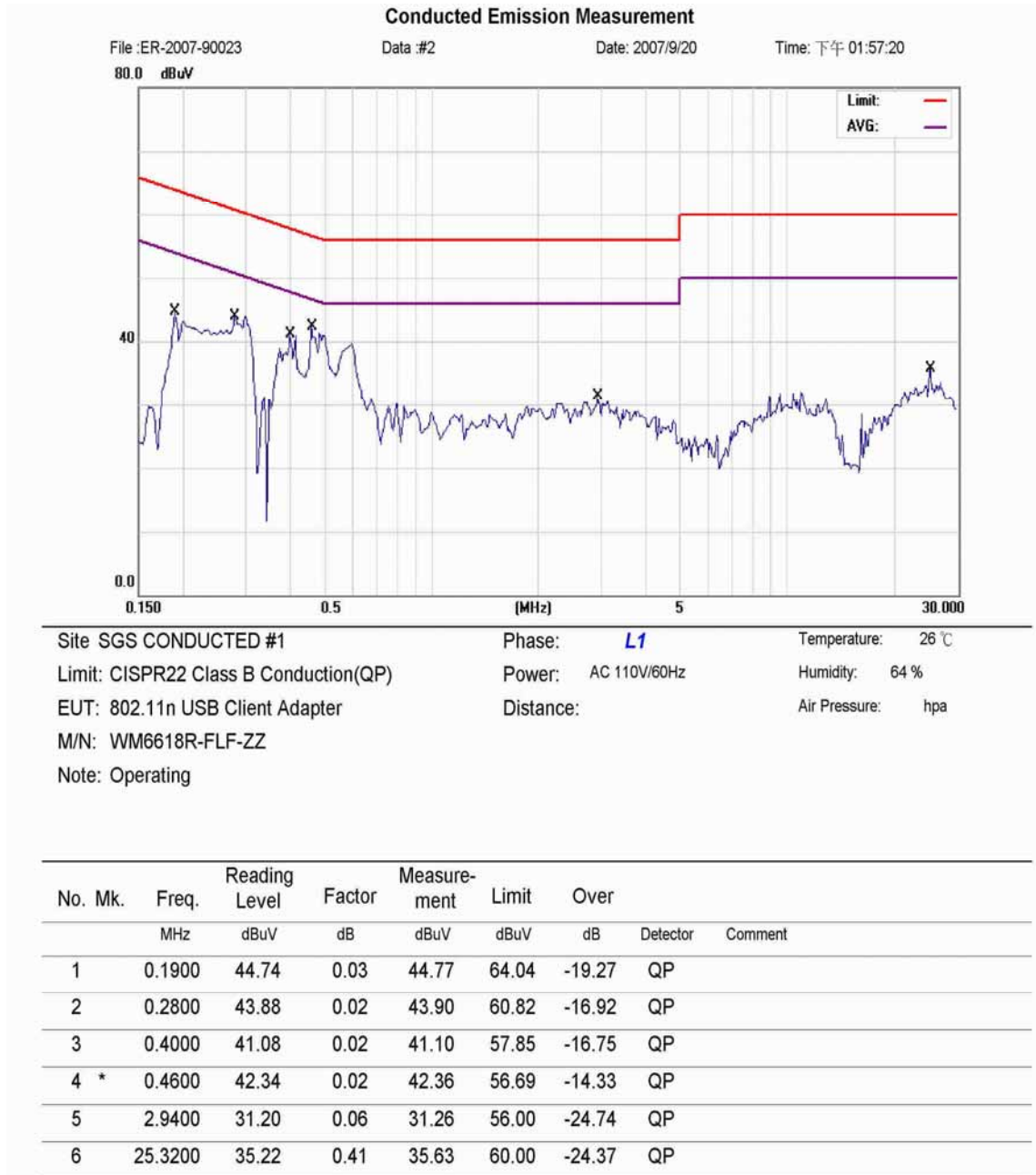
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMC Analyzer	HP	8594EM	3624A00203	09/01/2007	08/31/2008
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2007	06/08/2008
Transient Limiter	HP	11947A	3107A02062	09/01/2007	08/31/2008
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2006	12/30/2007
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2006	12/23/2007
Coaxial Cables	N/A	No. 3, 4	N/A	12/01/2006	12/01/2007

## 5.5 Measurement Result

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	802.11 b, 11Mbps mode, the worst mode	Test Date:	Sep. 20, 2007
Temperature:	25 °C	Humidity:	63%
		Test By:	Jason



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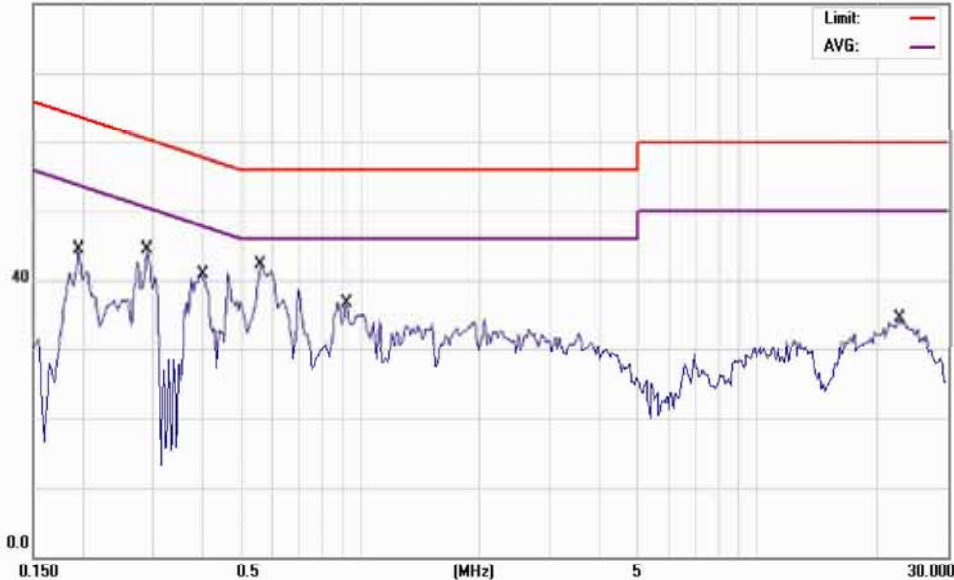
Conducted Emission Measurement

File :ER-2007-90023  
80.0 dBuV

Data :#1

Date: 2007/9/20

Time: 下午 01:53:56



Site SGS CONDUCTED #1  
Limit: CISPR22 Class B Conduction(QP)  
EUT: 802.11n USB Client Adapter  
M/N: WM6618R-FLF-ZZ  
Note: Operating

Phase: N  
Power: AC 110V/60Hz  
Distance:  
Temperature: 26 °C  
Humidity: 64 %  
Air Pressure: hpa

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1950	44.46	0.02	44.48	63.82	-19.34	QP	
2	0.2900	44.44	0.02	44.46	60.52	-16.06	QP	
3	0.4000	40.86	0.02	40.88	57.85	-16.97	QP	
4 *	0.5600	42.32	0.02	42.34	56.00	-13.66	QP	
5	0.9200	36.76	0.01	36.77	56.00	-19.23	QP	
6	22.8000	34.24	0.29	34.53	60.00	-25.47	QP	

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## 6. PEAK OUTPUT POWER MEASUREMENT

### 6.1 Standard Applicable

According to §15.247(a)(2), (b)

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(c) Operation with directional antenna gains greater than 6 dBi.

(1) Fixed point-to-point operation:

(i) Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi 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 6 dBi.

(ii) Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

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According to §RSS-210, A8.4(4), For the band 2400-2483.5 MHz, the transmitter output power shall not exceed 1.0 watt. See (d) below for special conditions. For the bands 902-928 MHz and 5725-5850 MHz, the transmitter output power shall not exceed 1.0 watt and the EIRP shall not exceed 4 watts. However, point-to-point systems in the 5725-5850 MHz band are permitted any EIRP necessary for satisfactory operation by increase in antenna gain. Point-to-multipoint systems and multiple co-located transmitters transmitting the same information are **prohibited** from using this high EIRP category. However, remote stations of point-to-multipoint systems shall be permitted to operate at the point-to-point EIRP limit provided that the higher EIRP is achieved by employing higher gain directional antennas and not higher transmitter output powers

## 6.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Channel power function, RBW= 1MHz, VBW = 3MHz, integrated Bandwidth=26dB occupied Bandwidth)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

## 6.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Agilent	ZFSC-2-10G	N/A	10/07/2006	10/06/2007

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## 6.4 Measurement Result

### Test Results (802.11b) 1M :

CH	Frequency (MHz)	Reading Power ( dBm)	Cable Loss (dB)	Output Power (dBm)	Limit (dBm)	Result
LOW	2412.00	18.22	0.00	18.22	30	PASS
MID	2437.00	18.49	0.00	18.49	30	PASS
HIGH	2462.00	18.17	0.00	18.17	30	PASS

### Test Results (802.11b) 11M :

CH	Frequency (MHz)	Reading Power ( dBm)	Cable Loss (dB)	Output Power (dBm)	Limit (dBm)	Result
LOW	2412.00	18.12	0.00	18.12	30	PASS
MID	2437.00	18.25	0.00	18.25	30	PASS
HIGH	2462.00	18.29	0.00	18.29	30	PASS

### Test Results (802.11g) 6M :

CH	Frequency (MHz)	Reading Power ( dBm)	Cable Loss (dB)	Output Power (dBm)	Limit (dBm)	Result
LOW	2412.00	15.21	0.00	15.21	30	PASS
MID	2437.00	15.29	0.00	15.29	30	PASS
HIGH	2462.00	15.23	0.00	15.23	30	PASS

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**Test Results (802.11g) 54M :**

CH	Frequency (MHz)	Reading Power ( dBm)	Cable Loss (dB)	Output Power (dBm)	Limit (dBm)	Result
LOW	2412.00	15.35	0.00	15.35	30	PASS
MID	2437.00	15.55	0.00	15.55	30	PASS
HIGH	2462.00	15.22	0.00	15.22	30	PASS

**Test Results (802.11n 20M ) 6.5M :**

CH	Frequency (MHz)	Reading Power ( dBm)	Cable Loss (dB)	Output Power (dBm)	Limit (dBm)	Result
LOW	2412.00	15.24	0.00	15.24	30	PASS
MID	2437.00	15.33	0.00	15.33	30	PASS
HIGH	2462.00	15.45	0.00	15.45	30	PASS

**Test Results (802.11n 20M) 65M :**

CH	Frequency (MHz)	Reading Power ( dBm)	Cable Loss (dB)	Output Power (dBm)	Limit (dBm)	Result
LOW	2412.00	15.38	0.00	15.38	30	PASS
MID	2437.00	15.43	0.00	15.43	30	PASS
HIGH	2462.00	15.25	0.00	15.25	30	PASS

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**Test Results (802.11n 40M) 6.5M :**

CH	Frequency (MHz)	Reading Power ( dBm)	Cable Loss (dB)	Output Power (dBm)	Limit (dBm)	Result
LOW	2422.00	14.29	0.00	14.29	30	PASS
MID	2442.00	14.23	0.00	14.23	30	PASS
HIGH	2462.00	14.36	0.00	14.36	30	PASS

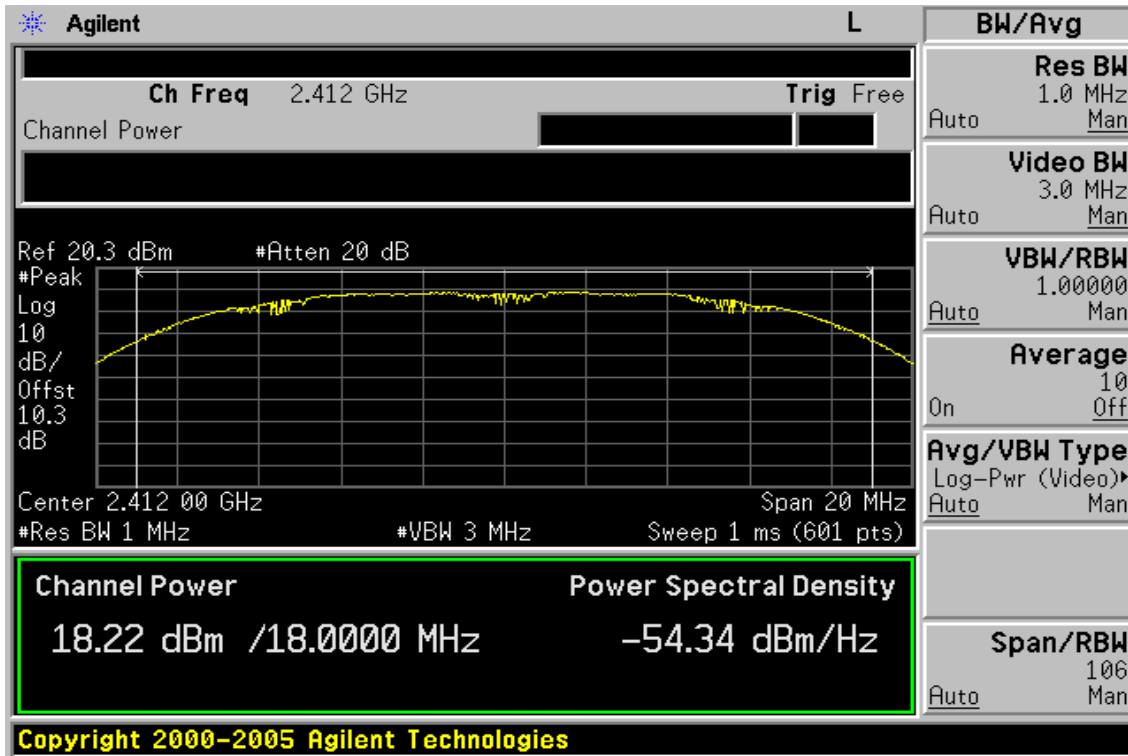
**Test Results (802.11n 40M) 65M :**

CH	Frequency (MHz)	Reading Power ( dBm)	Cable Loss (dB)	Output Power (dBm)	Limit (dBm)	Result
LOW	2422.00	14.27	0.00	14.27	30	PASS
MID	2442.00	14.05	0.00	14.05	30	PASS
HIGH	2462.00	14.50	0.00	14.50	30	PASS

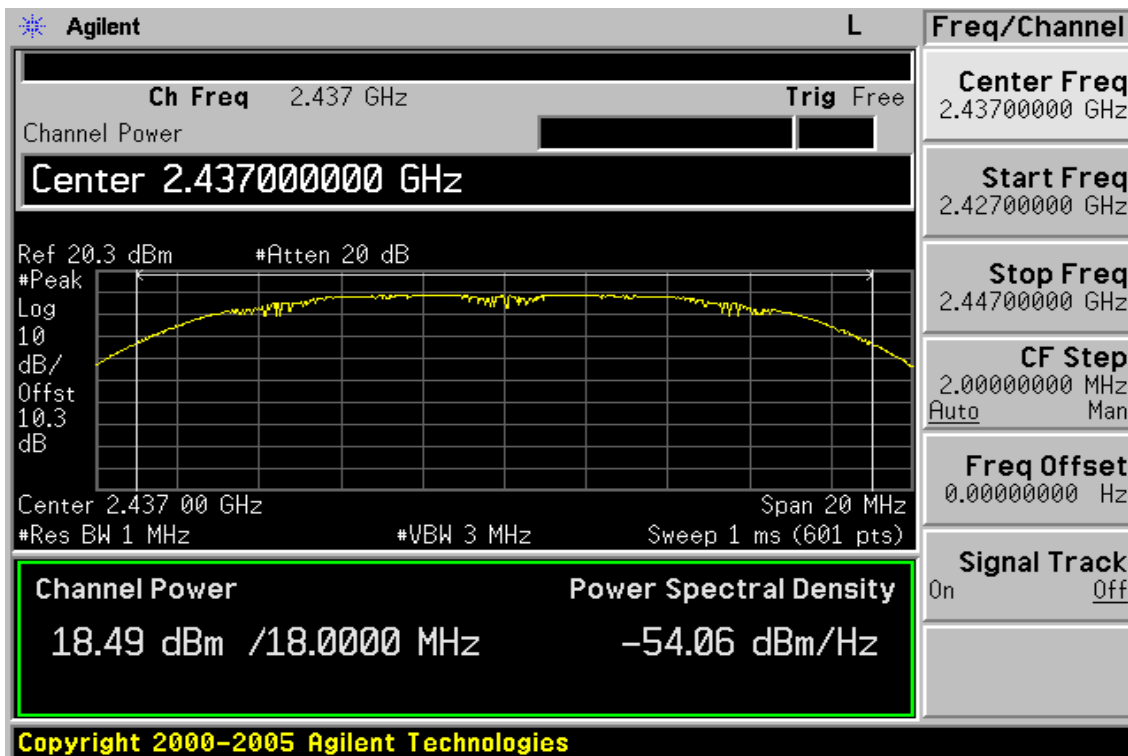
Note: Offset 10.3 dB for insertion loss.

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### Peak Power Output Data Plot (CH Low) 802.11b, 1M mode

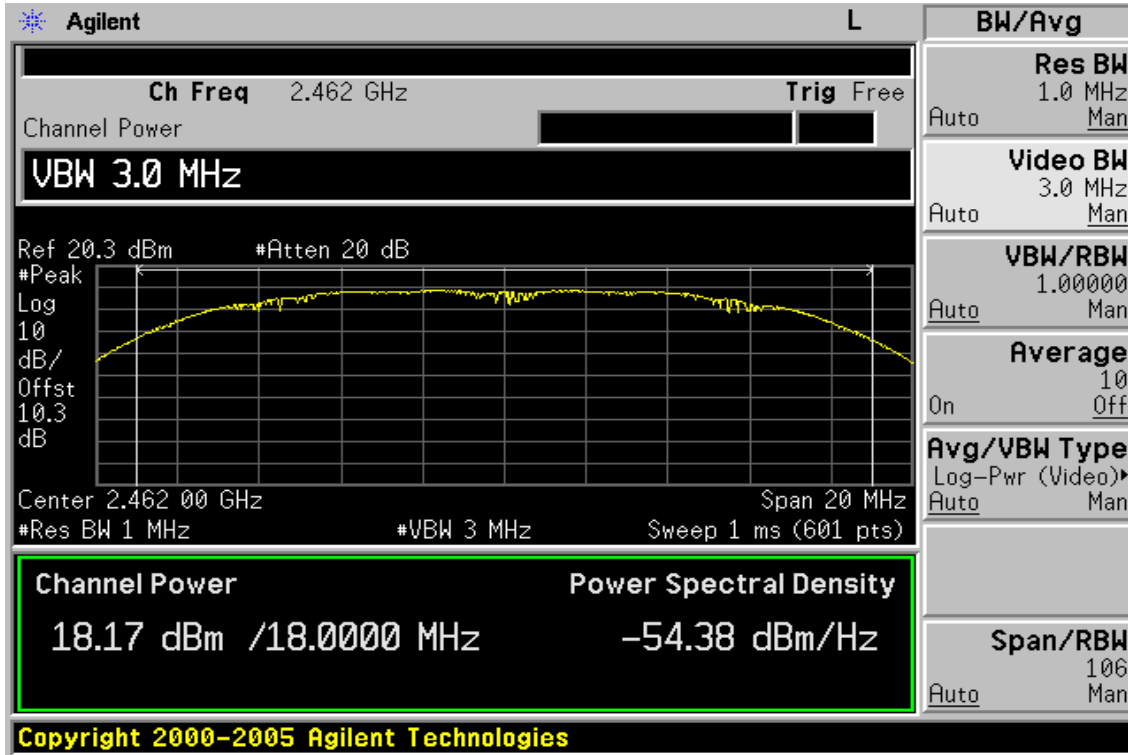


### Peak Power Output Data Plot (CH Mid) 802.11b , 1M mode



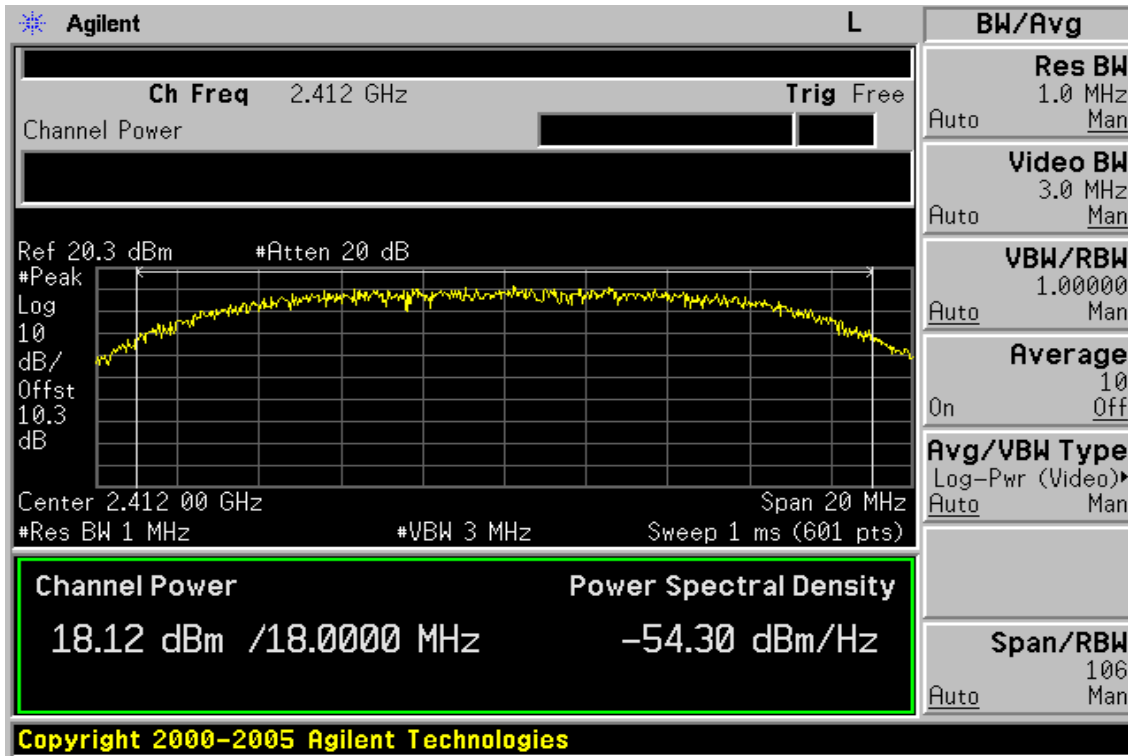
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### Peak Power Output Data Plot (CH High) 802.11b, 1M mode

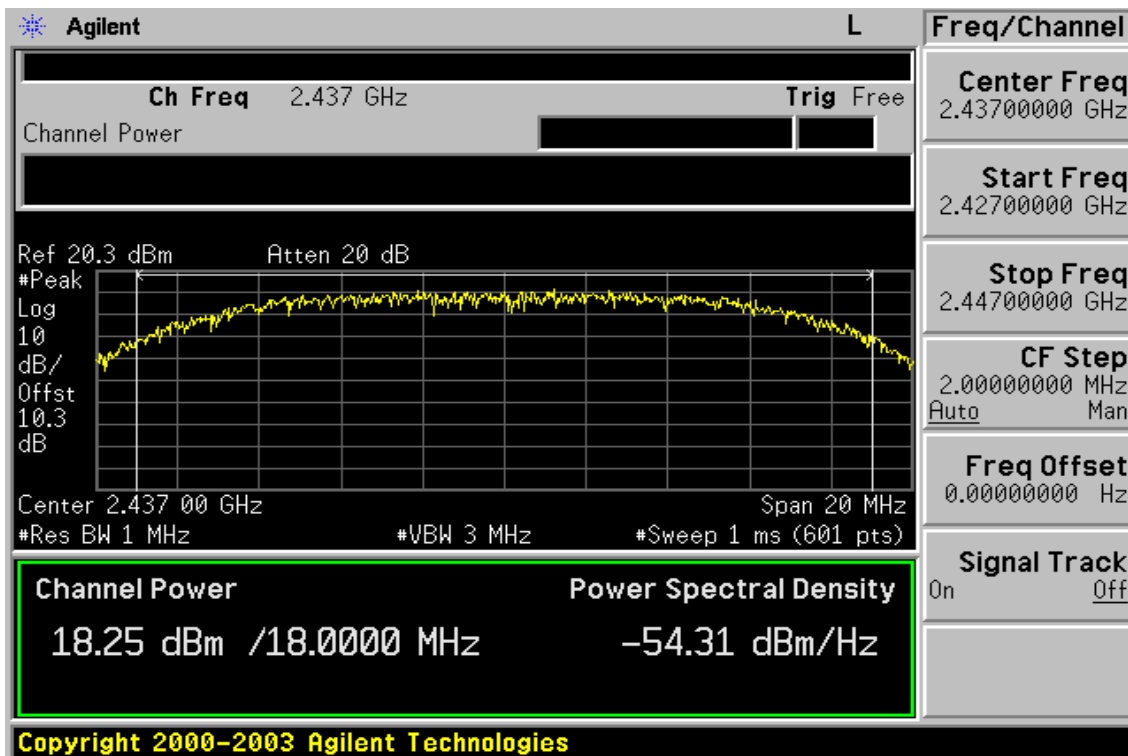


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### Peak Power Output Data Plot (CH Low) 802.11b, 11M mode

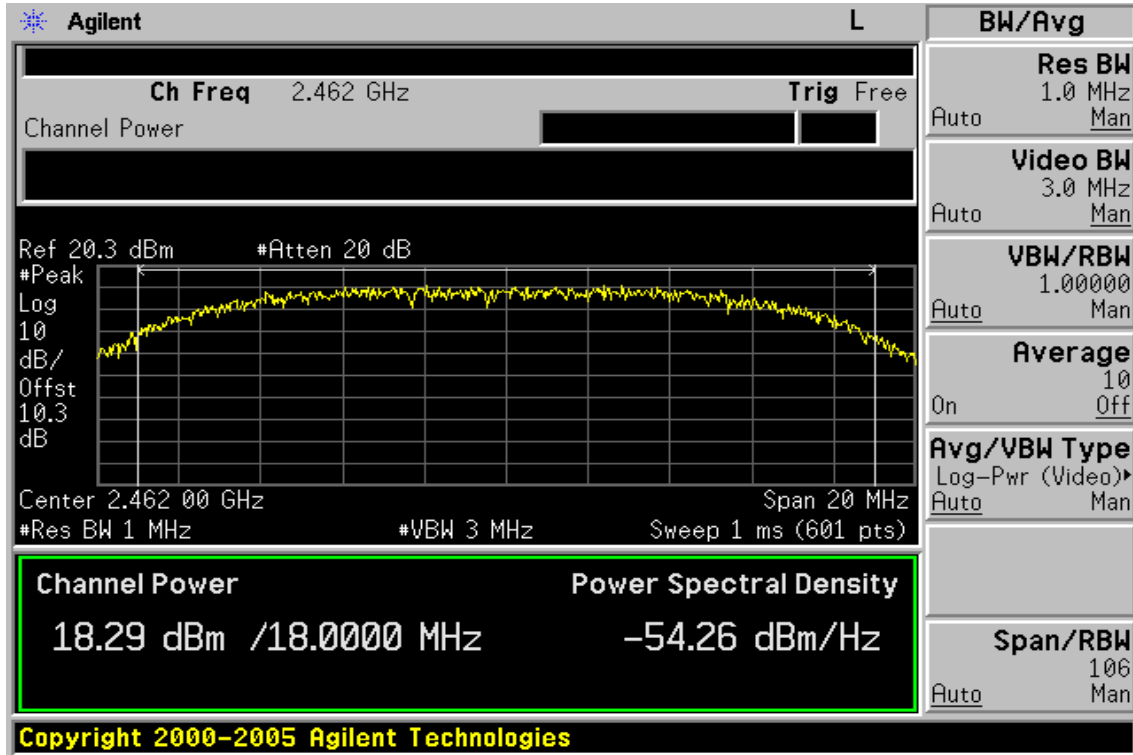


### Peak Power Output Data Plot (CH Mid) 802.11b, 11M mode



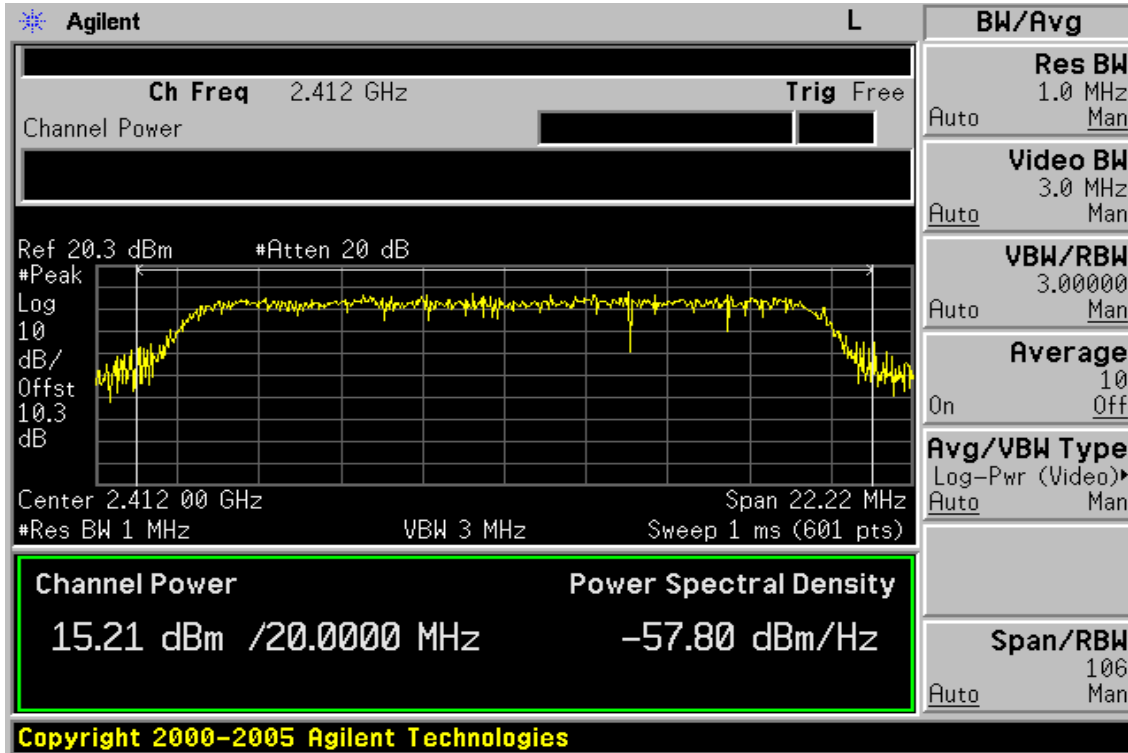
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### Peak Power Output Data Plot (CH High) 802.11b, 11M mode

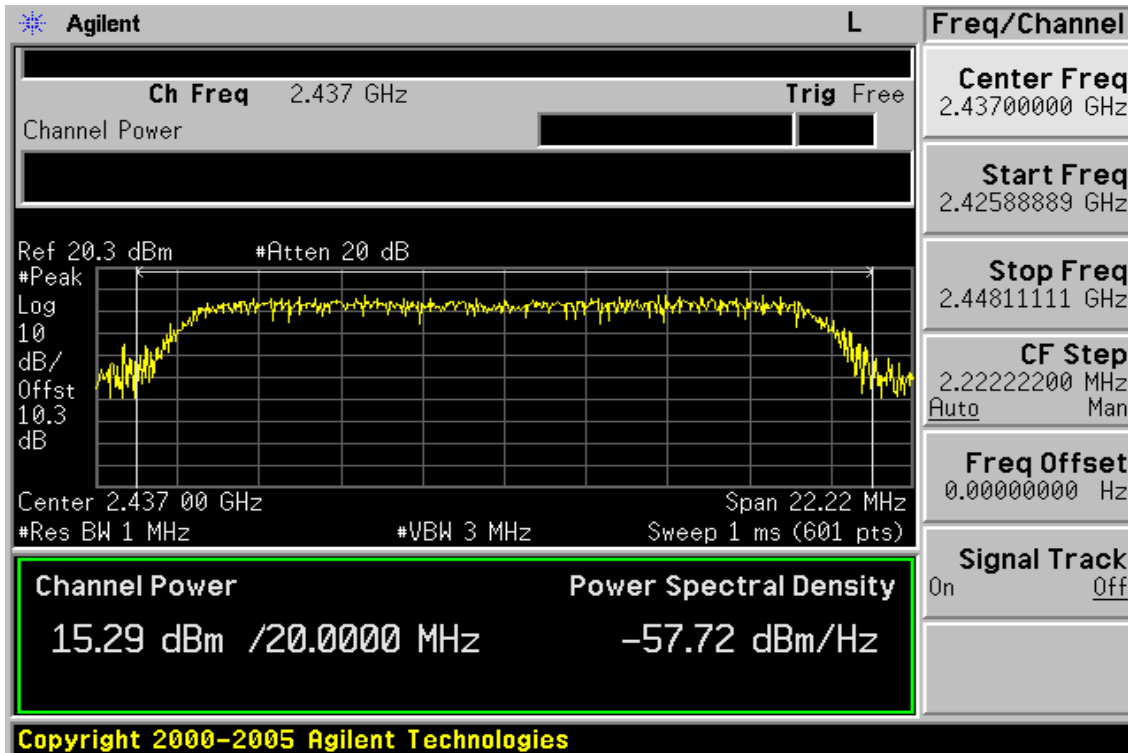


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### Peak Power Output Data Plot (CH Low) 802.11g, 6M mode



### Peak Power Output Data Plot (CH Mid) 802.11g, 6M mode

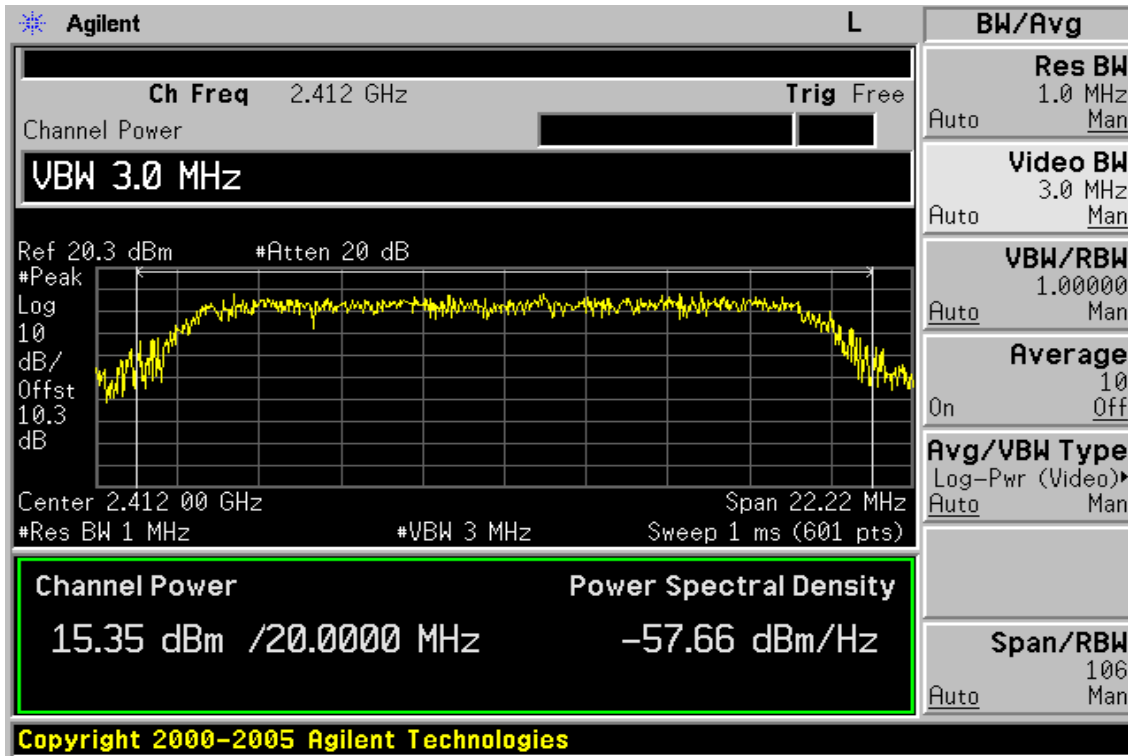


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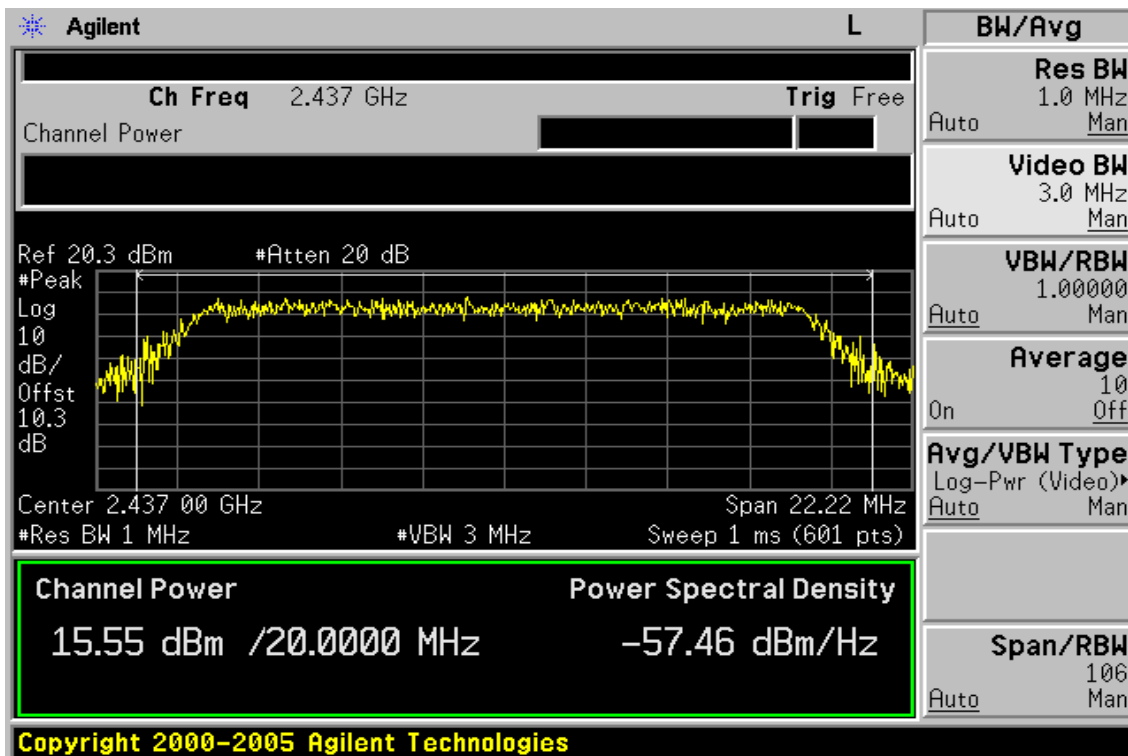




### Peak Power Output Data Plot (CH Low) 802.11g, 54M mode

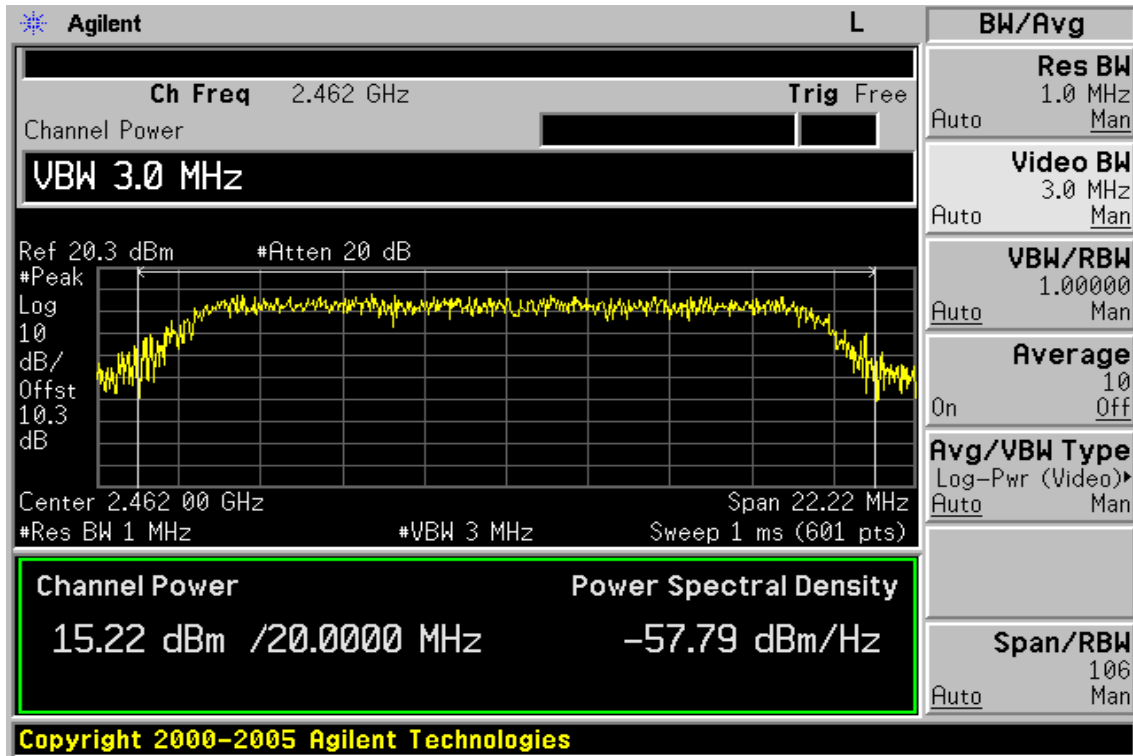


### Peak Power Output Data Plot (CH Mid) 802.11g, 54M mode



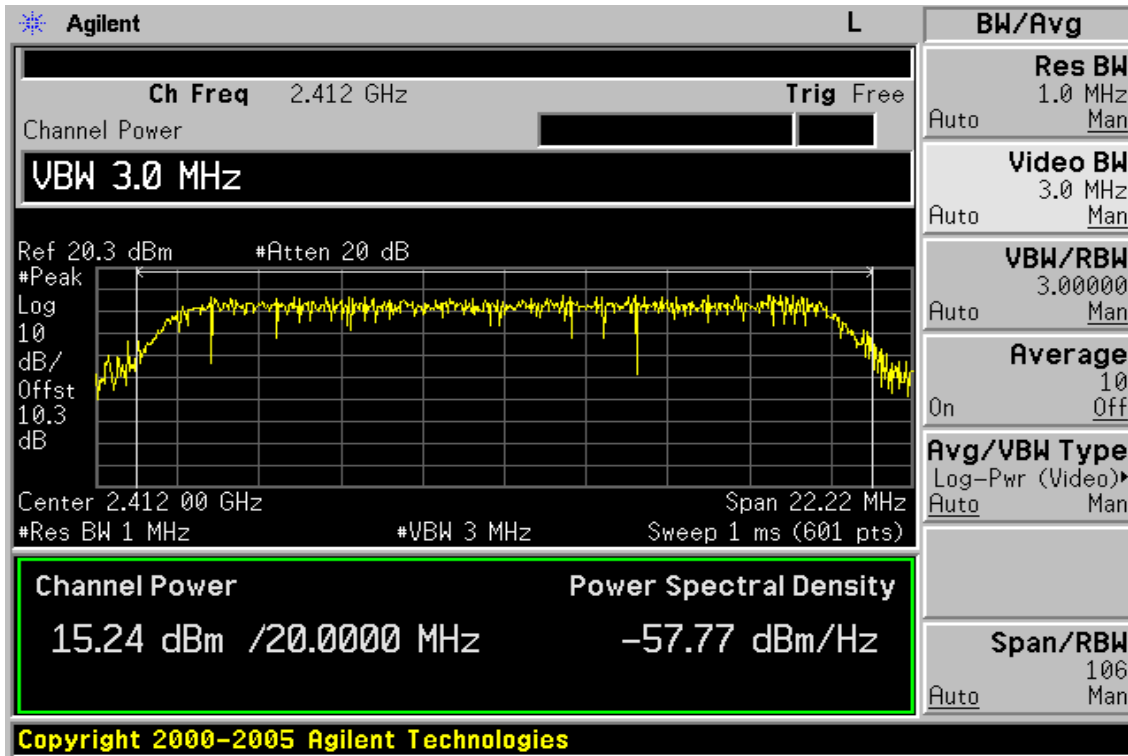
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### Peak Power Output Data Plot (CH High) 802.11g, 54M mode

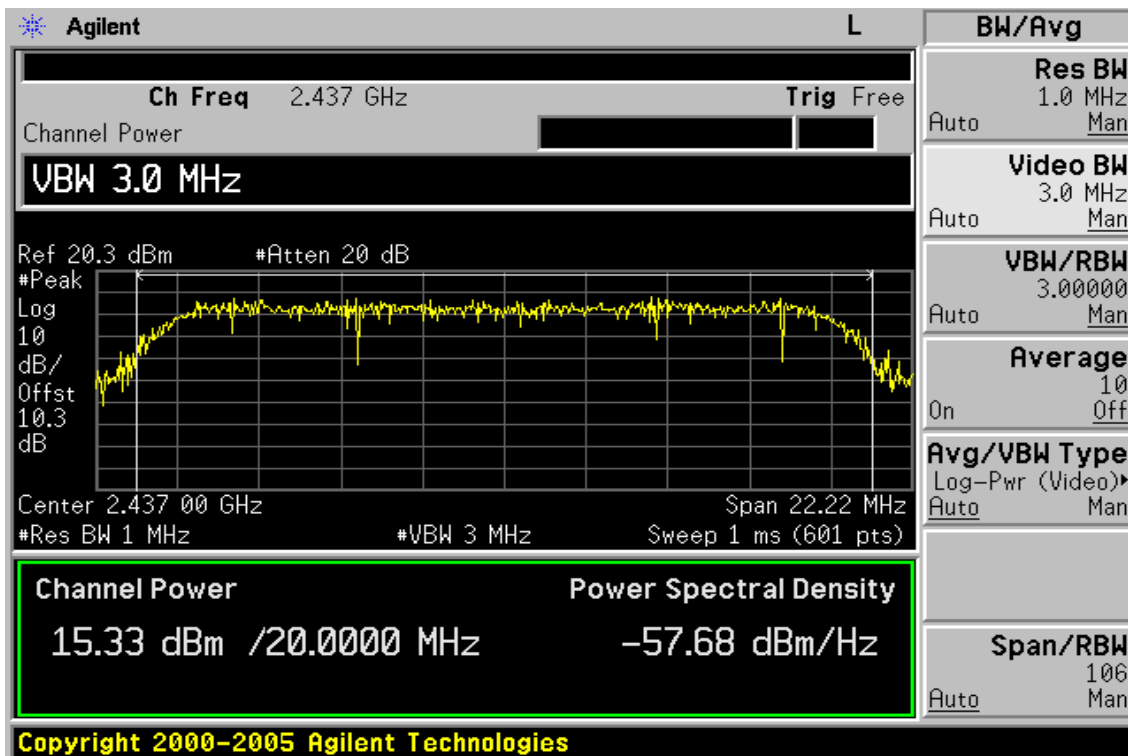


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**Peak Power Output Data Plot (CH Low) 802.11n\_20M, 6.5M mode**

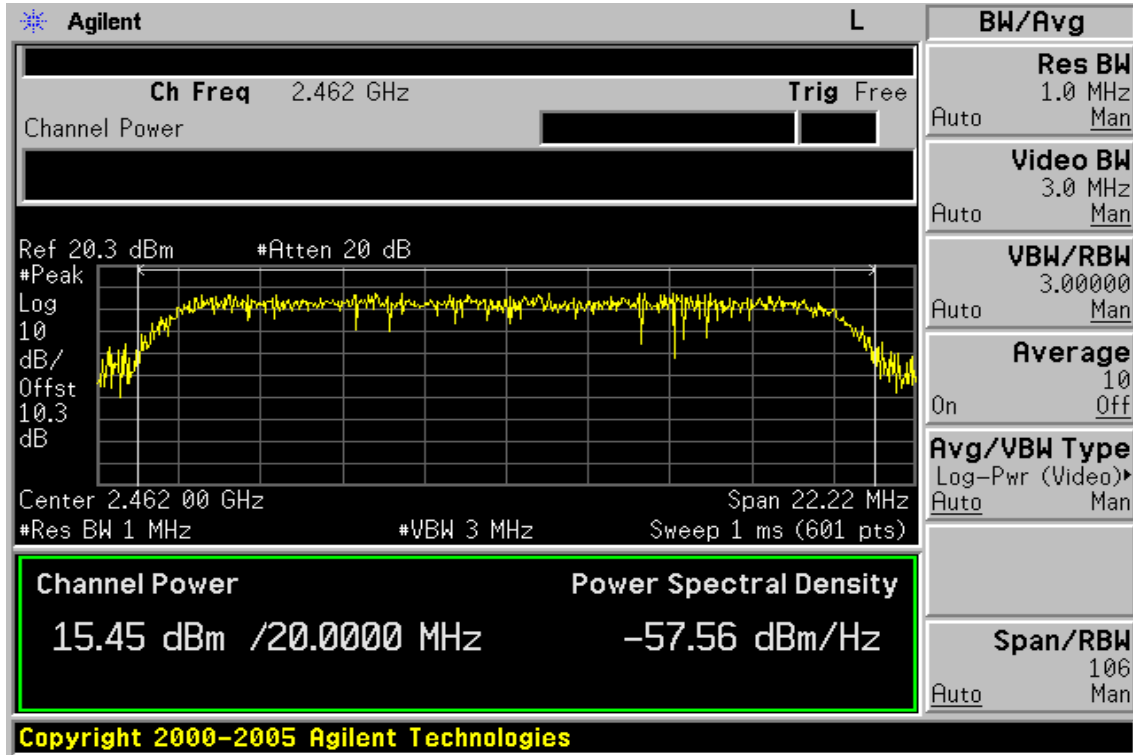


**Peak Power Output Data Plot (CH Mid) 802.11n\_20M, 6.5M mode**



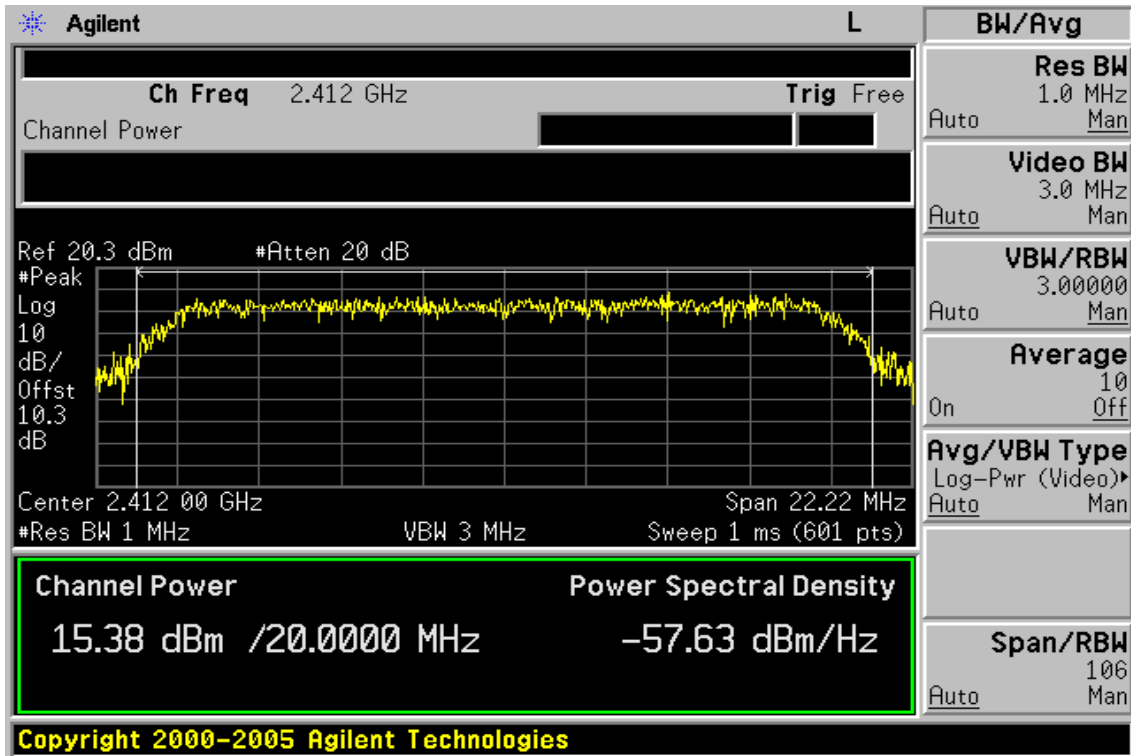
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**Peak Power Output Data Plot (CH High) 802.11n\_20M, 6.5M mode**

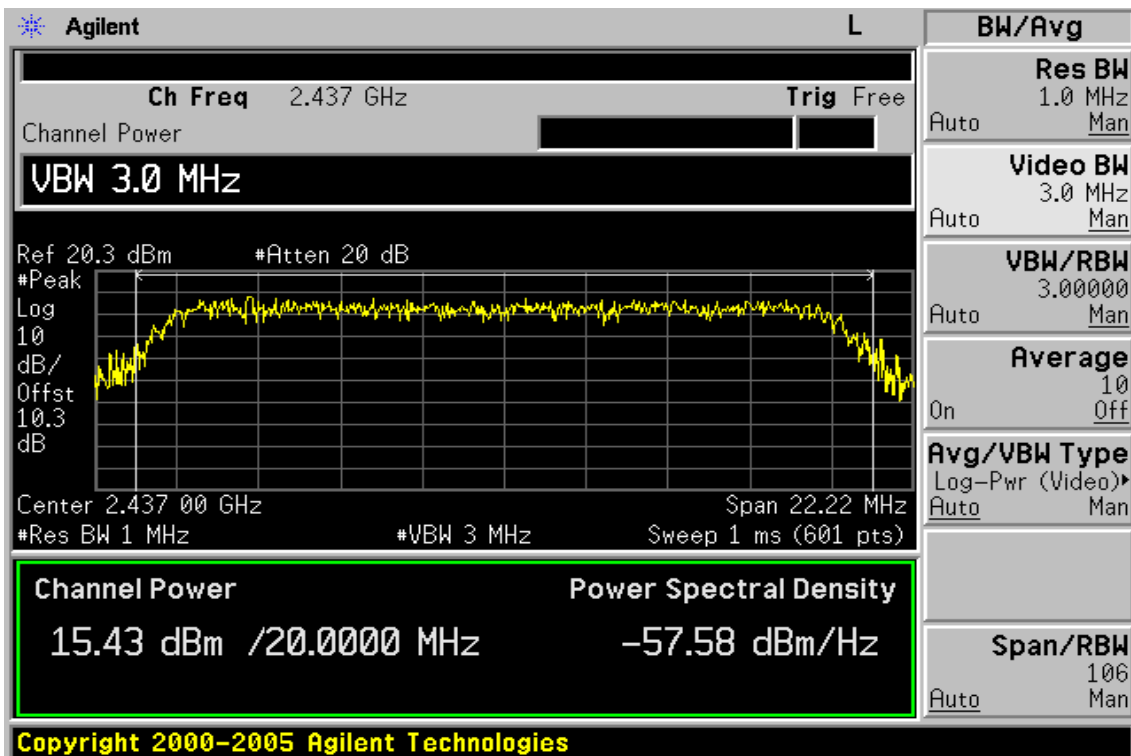


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### Peak Power Output Data Plot (CH Low) 802.11n\_20M, 65M mode

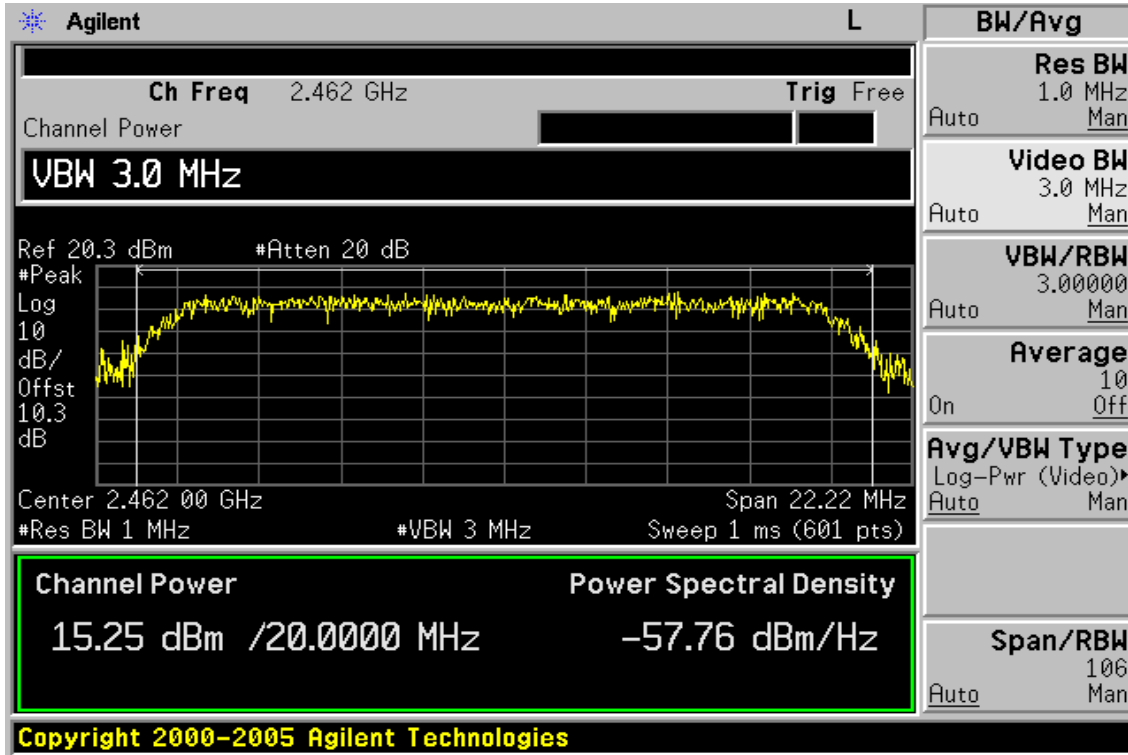


### Peak Power Output Data Plot (CH Mid) 802.11n\_20M, 65M mode



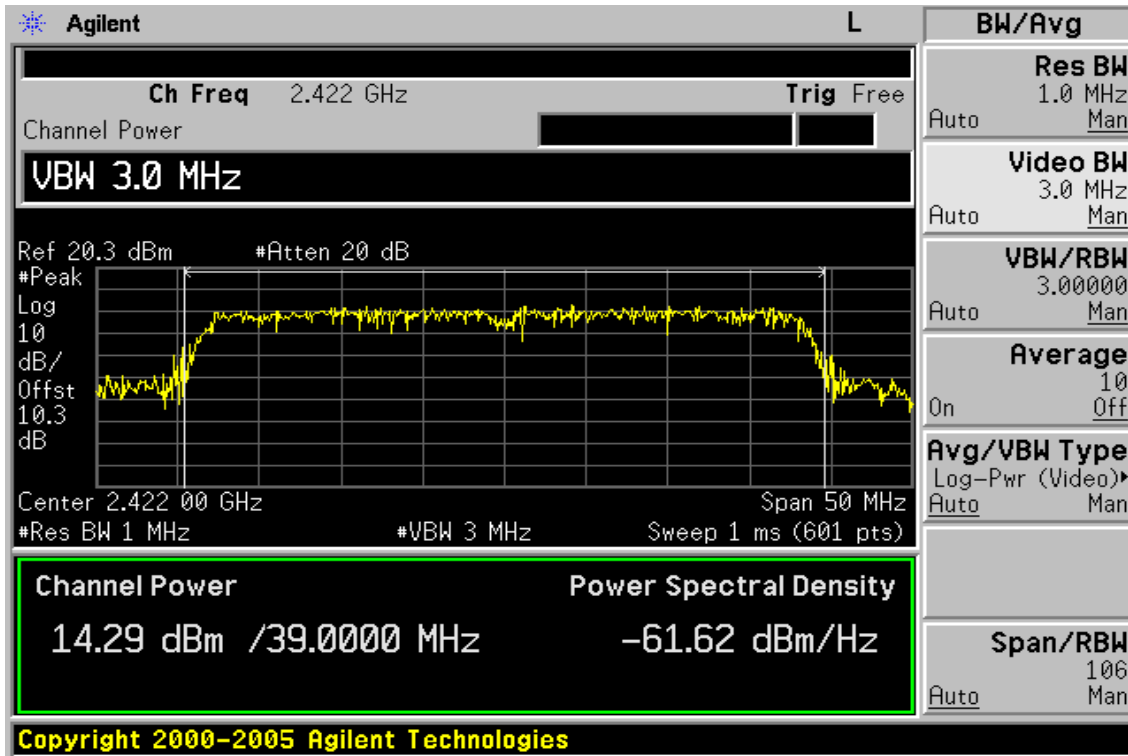
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**Peak Power Output Data Plot (CH High) 802.11n\_20M, 65M mode**

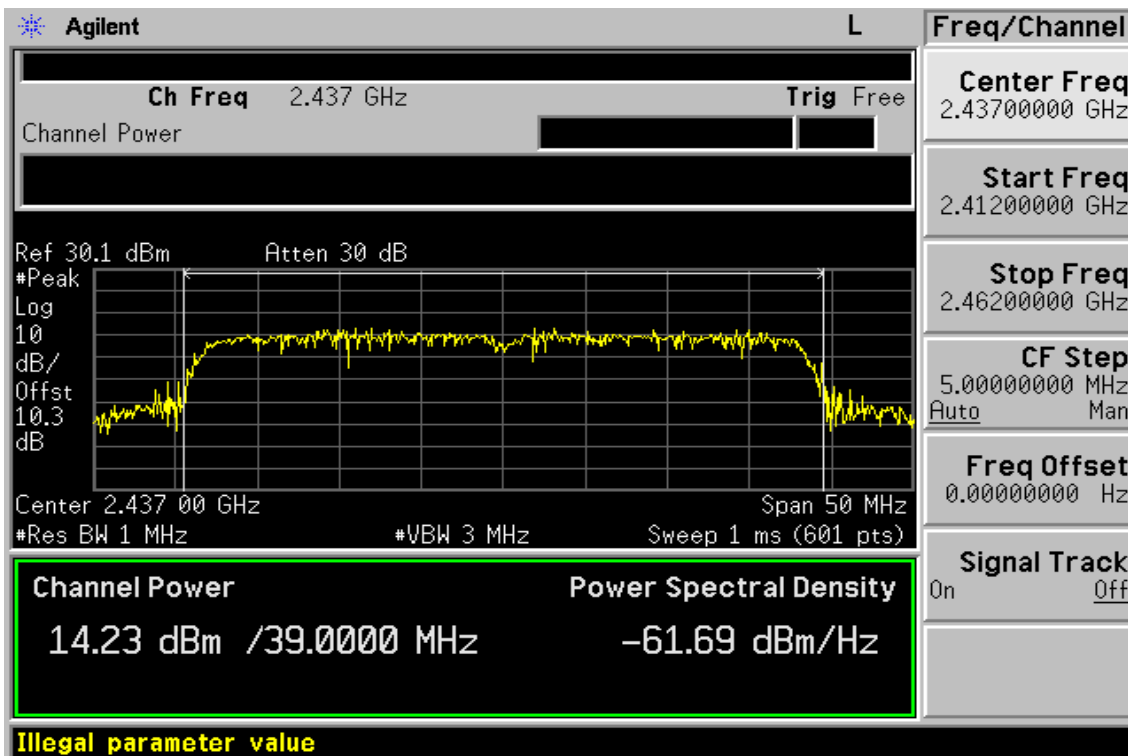


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### Peak Power Output Data Plot (CH Low) 802.11n\_40M, 6.5M mode



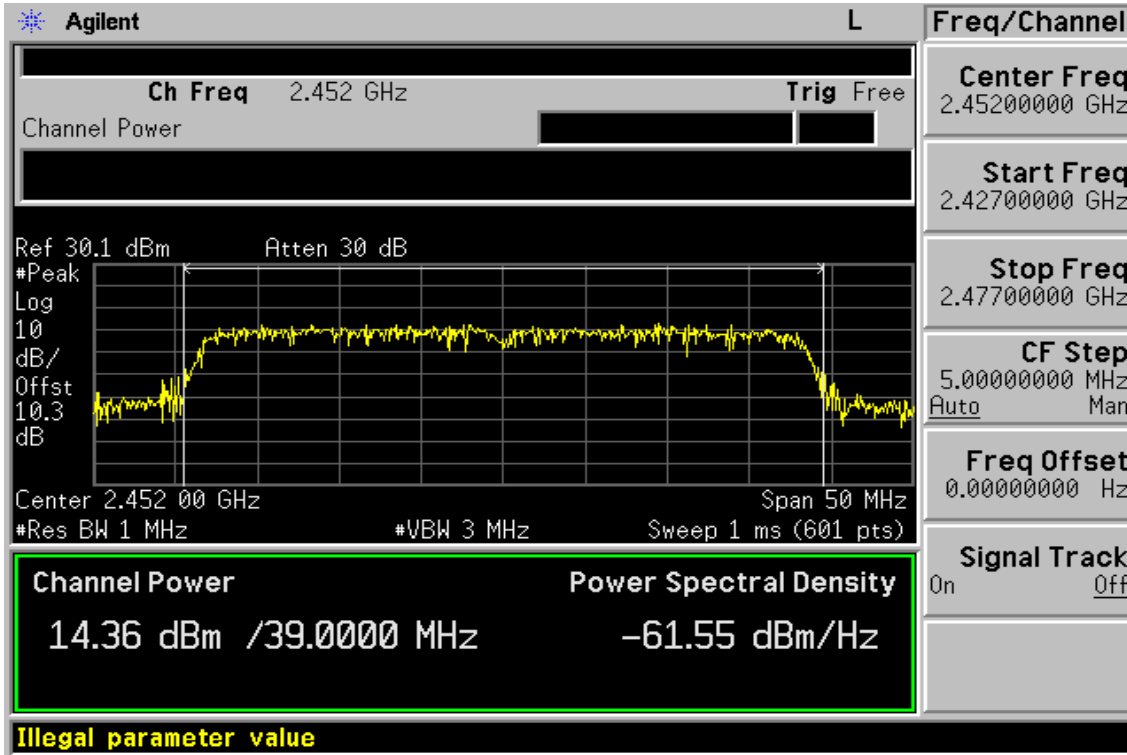
### Peak Power Output Data Plot (CH Mid) 802.11n\_40M, 6.5M mode



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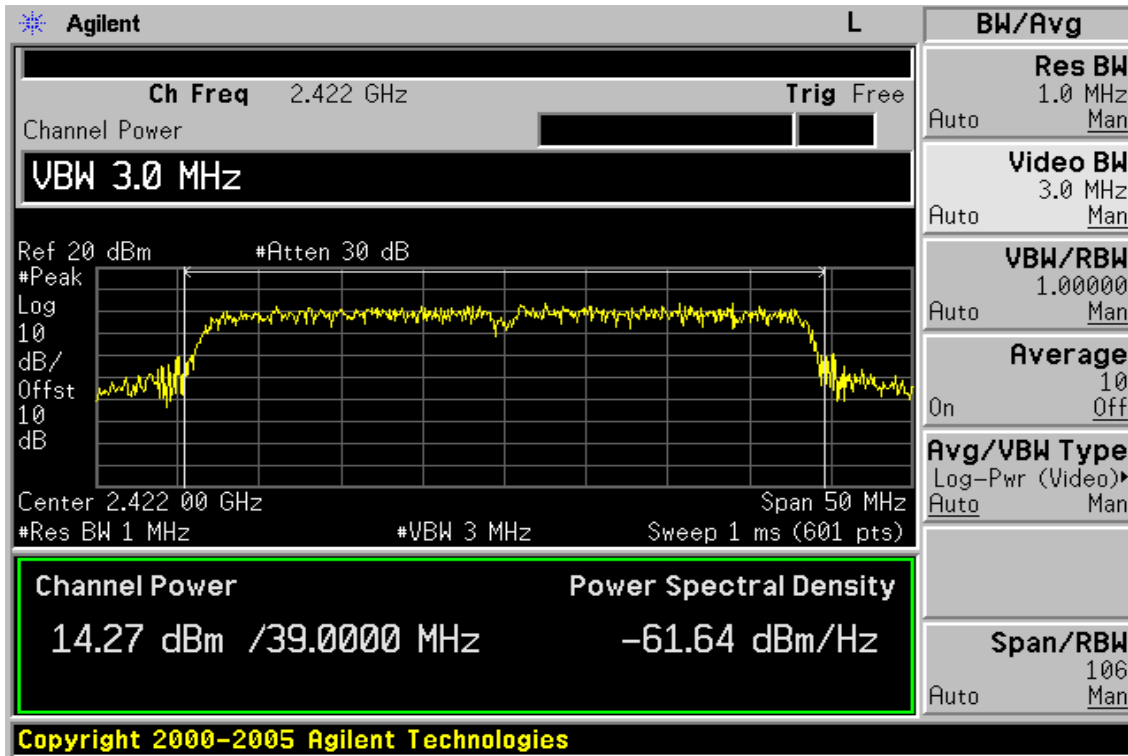


**Peak Power Output Data Plot (CH High) 802.11n \_40M, 6.5M mode**

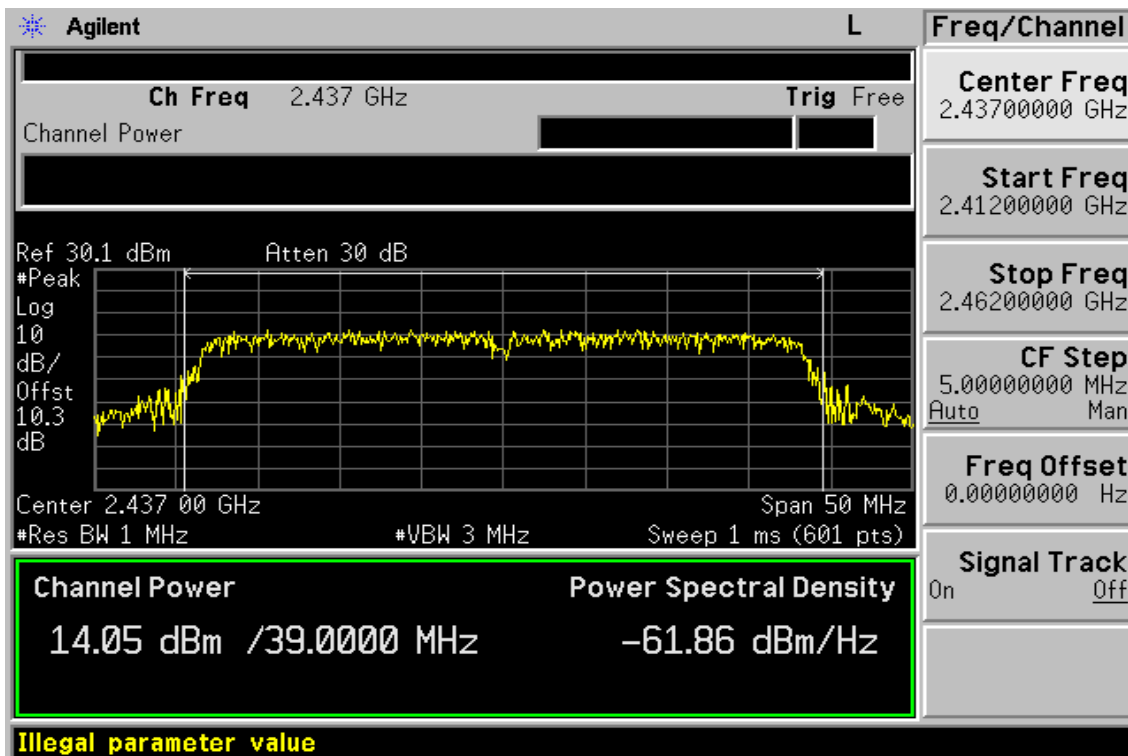


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### Peak Power Output Data Plot (CH Low) 802.11n\_40M, 65M mode

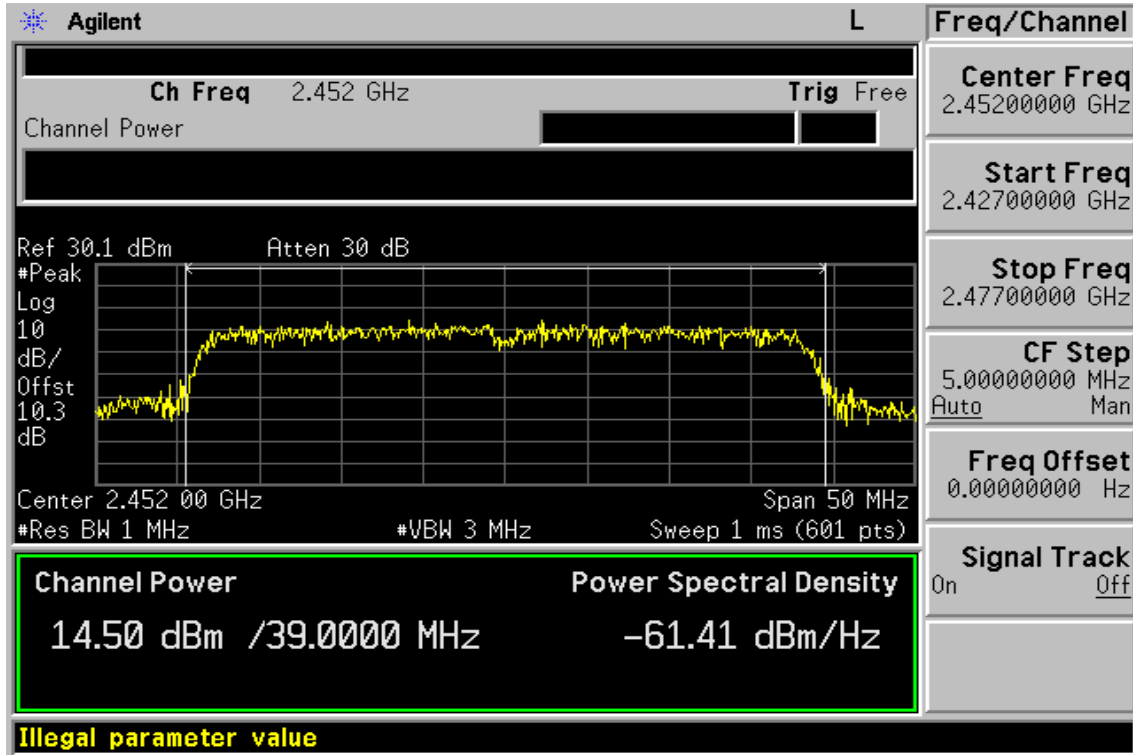


### Peak Power Output Data Plot (CH Mid) 802.11n\_40M, 65M mode



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**Peak Power Output Data Plot (CH High) 802.11n\_40M, 65M mode**



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## 7. 6dB Bandwidth

### 7.1 Standard Applicable

According to §15.247(a)(2) and RSS-210, Annex 8.2, Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz..

### 7.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the 3. antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=100KHz, VBW = 300KHz, Span= 50MHz, Sweep=auto
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured were complete.

### 7.3 Measurement Result

#### Test Results (802.11b) 1M :

CH	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
2412	10.117	> 500	PASS
2437	10.096	> 500	PASS
2462	12.694	> 500	PASS

#### Test Results (802.11g) 6M :

CH	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
2412	16.494	> 500	PASS
2437	16.373	> 500	PASS
2462	16.561	> 500	PASS

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**Test Results (802.11n\_20M) 6.5M :**

CH	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
2412	17.431	> 500	PASS
2437	17.651	> 500	PASS
2462	17.445	> 500	PASS

**Test Results (802.11n\_40M) 6.5M :**

CH	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
2412	35.878	> 500	PASS
2437	36.385	> 500	PASS
2462	36.062	> 500	PASS

**Test Results (802.11b) 11M :**

CH	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
2412	10.932	> 500	PASS
2437	12.220	> 500	PASS
2462	11.229	> 500	PASS

**Test Results (802.11g) 54M :**

CH	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
2412	16.465	> 500	PASS
2437	16.312	> 500	PASS
2462	16.390	> 500	PASS

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**Test Results (802.11n\_20M) 65M :**

CH	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
2412	17.417	> 500	PASS
2437	16.669	> 500	PASS
2462	17.319	> 500	PASS

**Test Results (802.11n\_40M) 65M :**

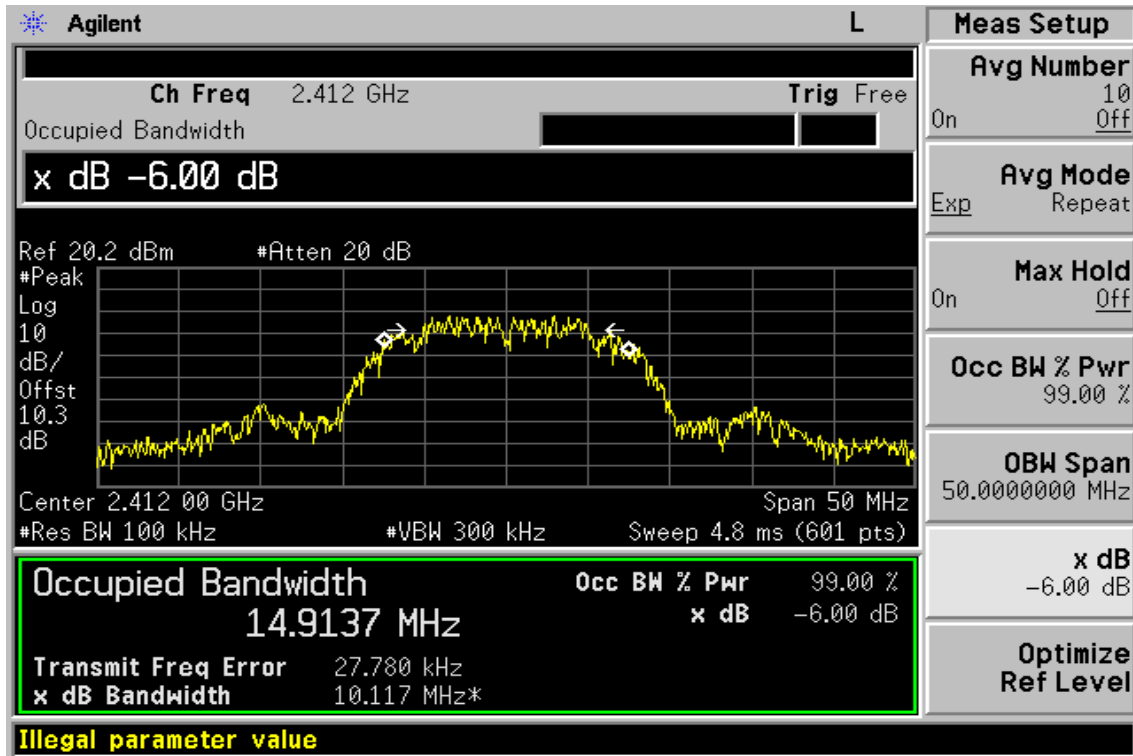
CH	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
2412	35.477	> 500	PASS
2437	36.141	> 500	PASS
2462	35.576	> 500	PASS

**7.4 Measurement Equipment Used:**

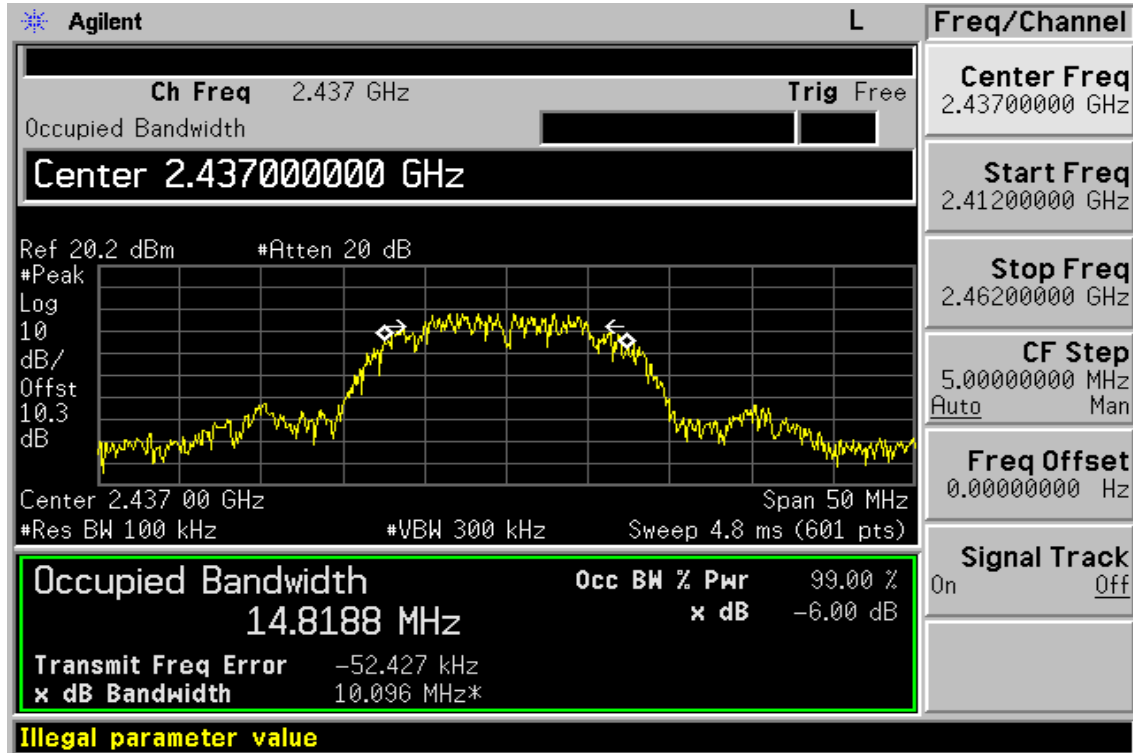
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Agilent	ZFSC-2-10G	N/A	10/07/2006	10/06/2007

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## 6dB Band Width Test Data CH-Low, 802.11b, 1M mode

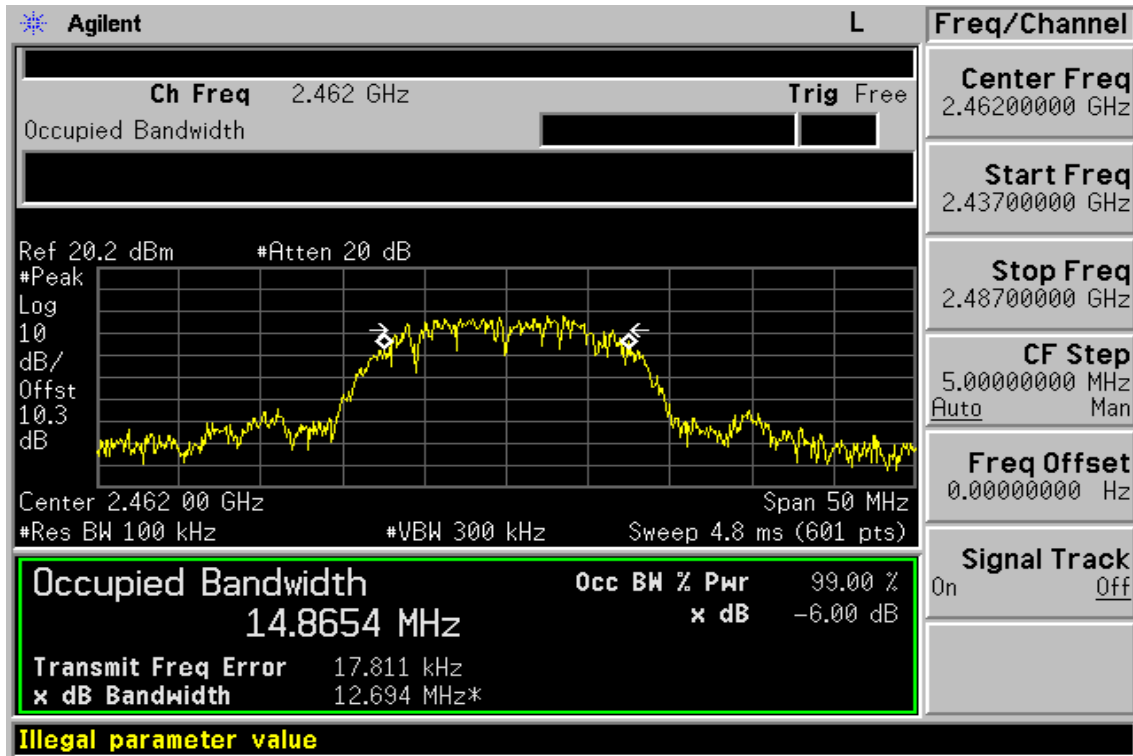


## 6dB Band Width Test Data CH-Mid, 802.11b, 1M mode



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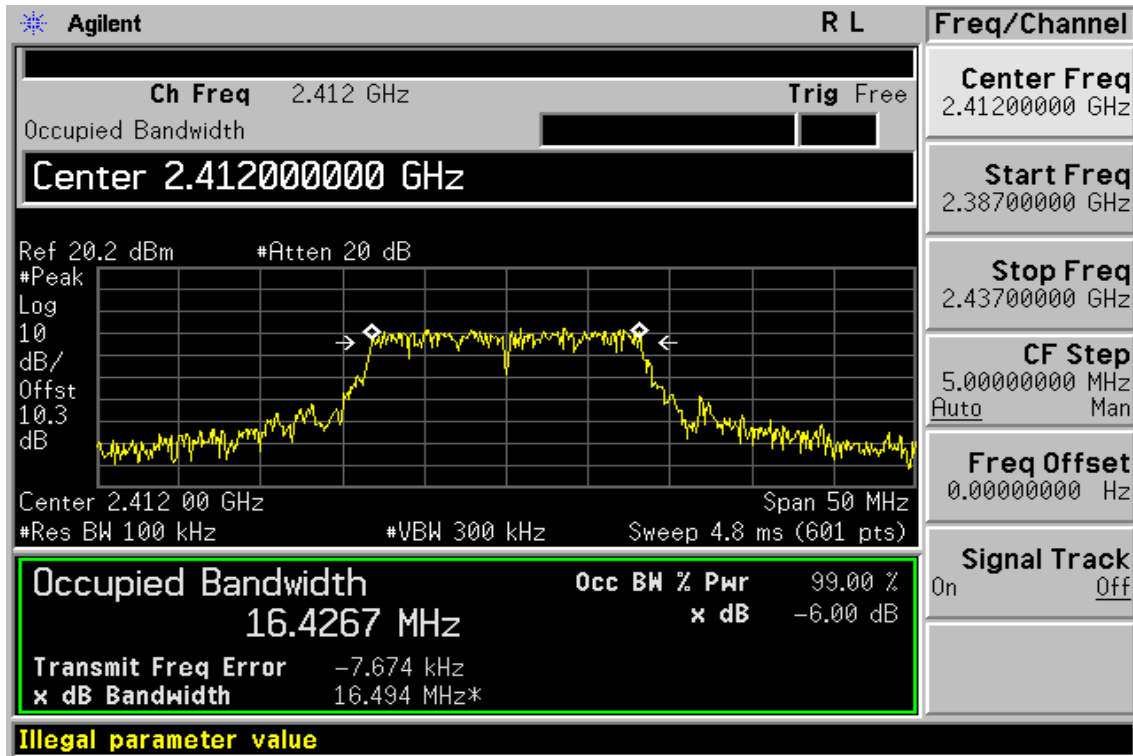
### 6dB Band Width Test Data CH-High, 802.11b, 1M mode



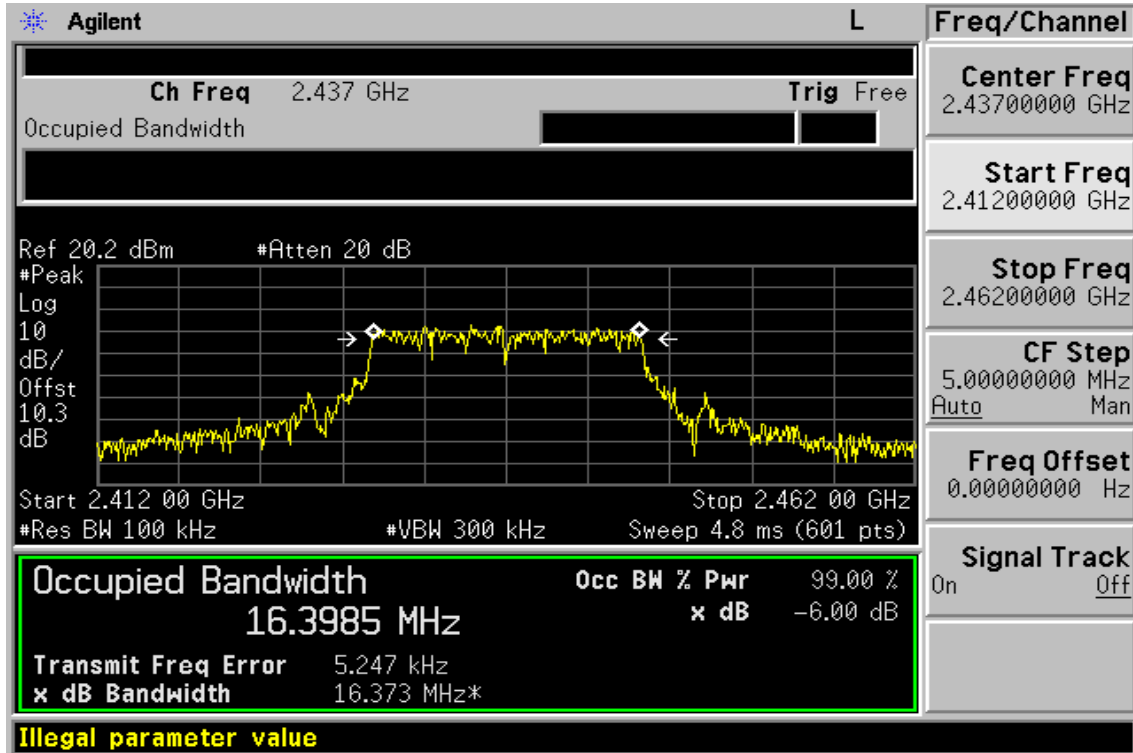
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### 6dB Band Width Test Data CH-Low, 802.11g, 6M mode

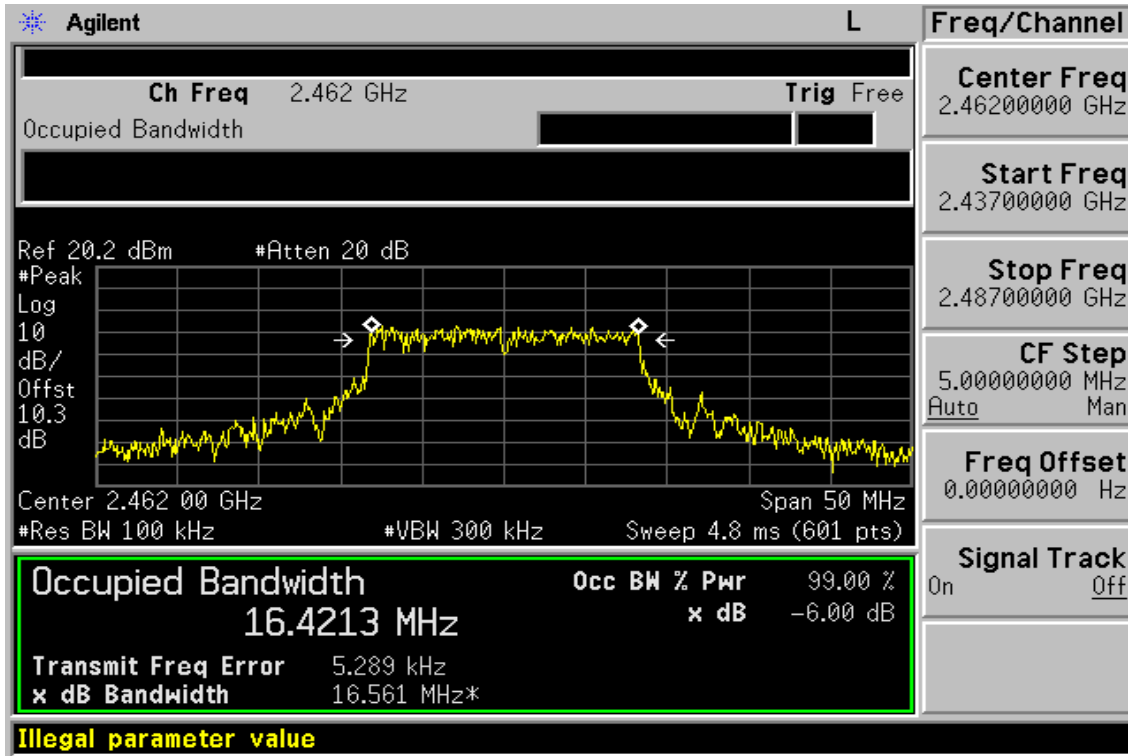


### 6dB Band Width Test Data CH-Mid, 802.11g, 6M mode



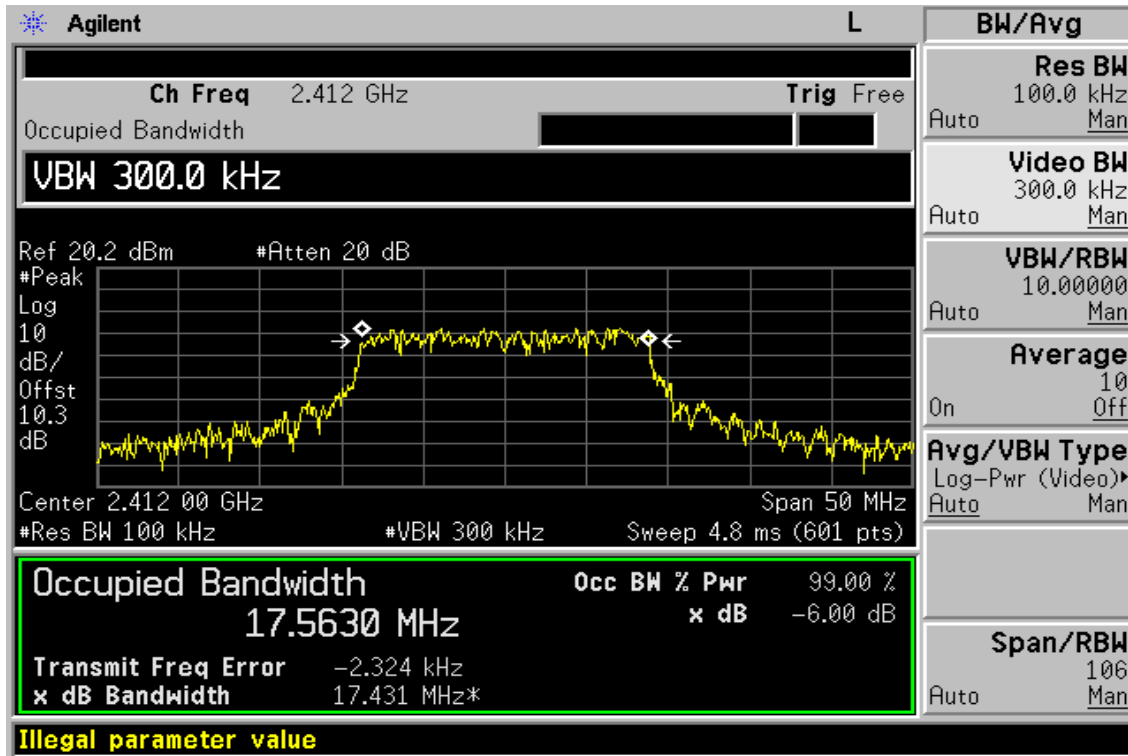
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### 6dB Band Width Test Data CH-High, 802.11g, 6M mode

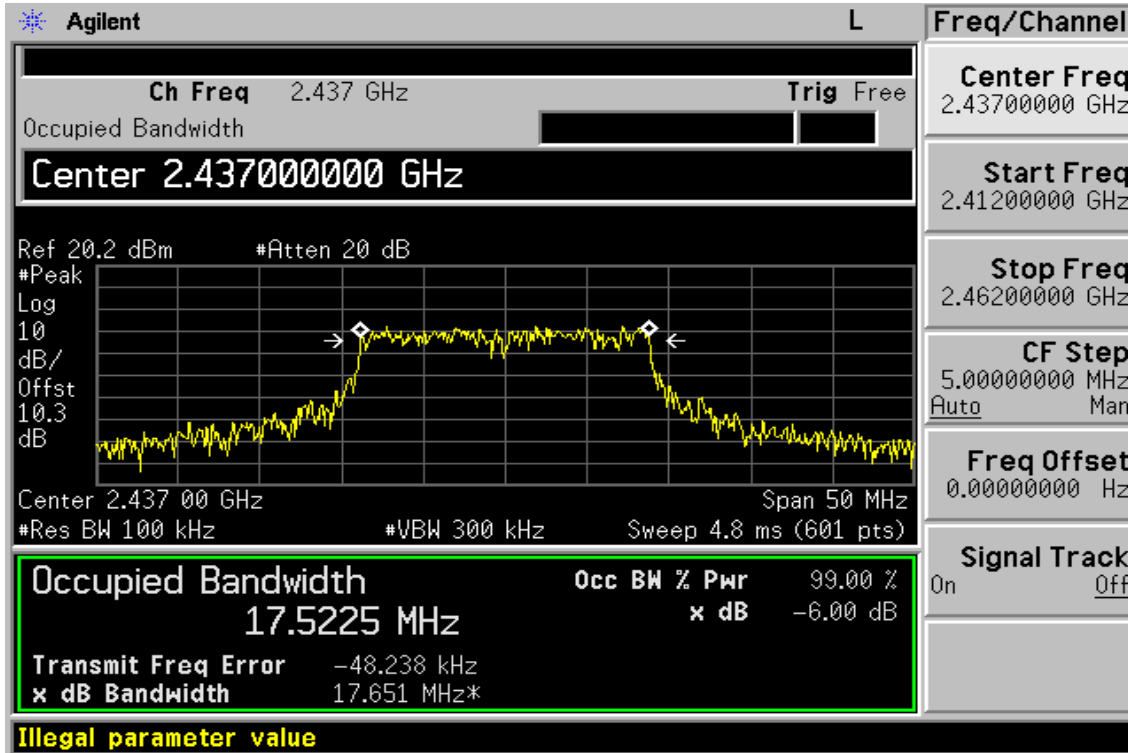


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## 6dB Band Width Test Data CH-Low, 802.11n\_20M, 6.5M mode

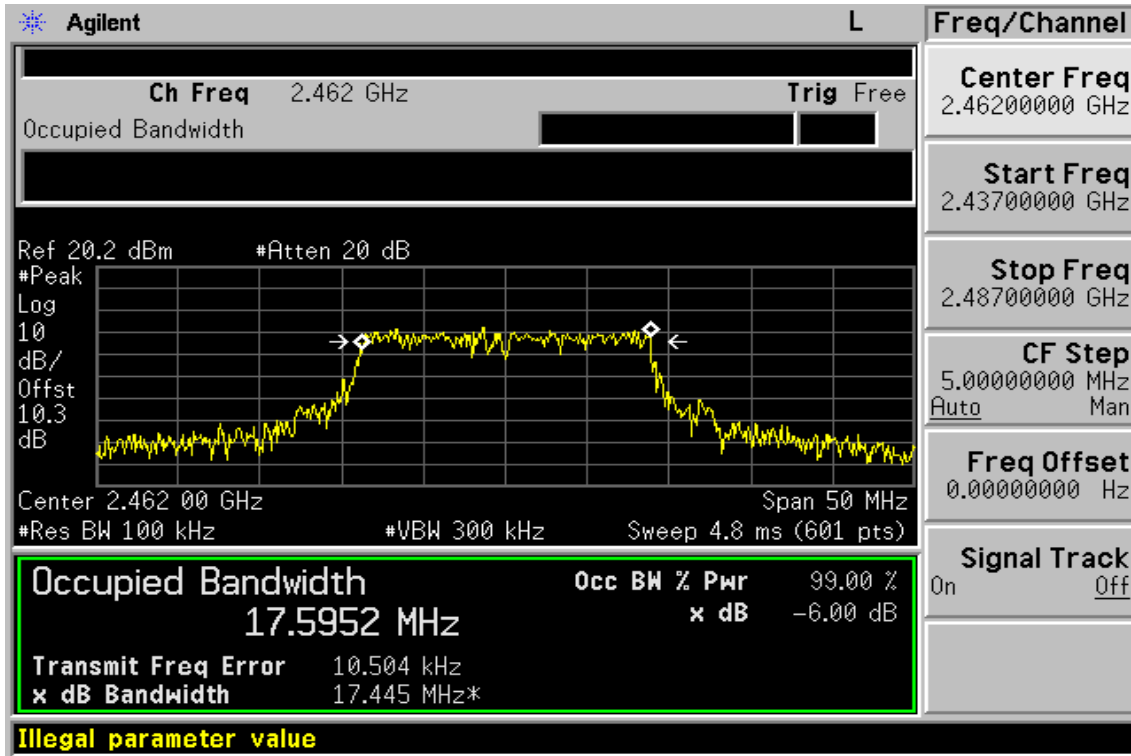


## 6dB Band Width Test Data CH-Mid, 802.11n\_20M, 6.5M mode



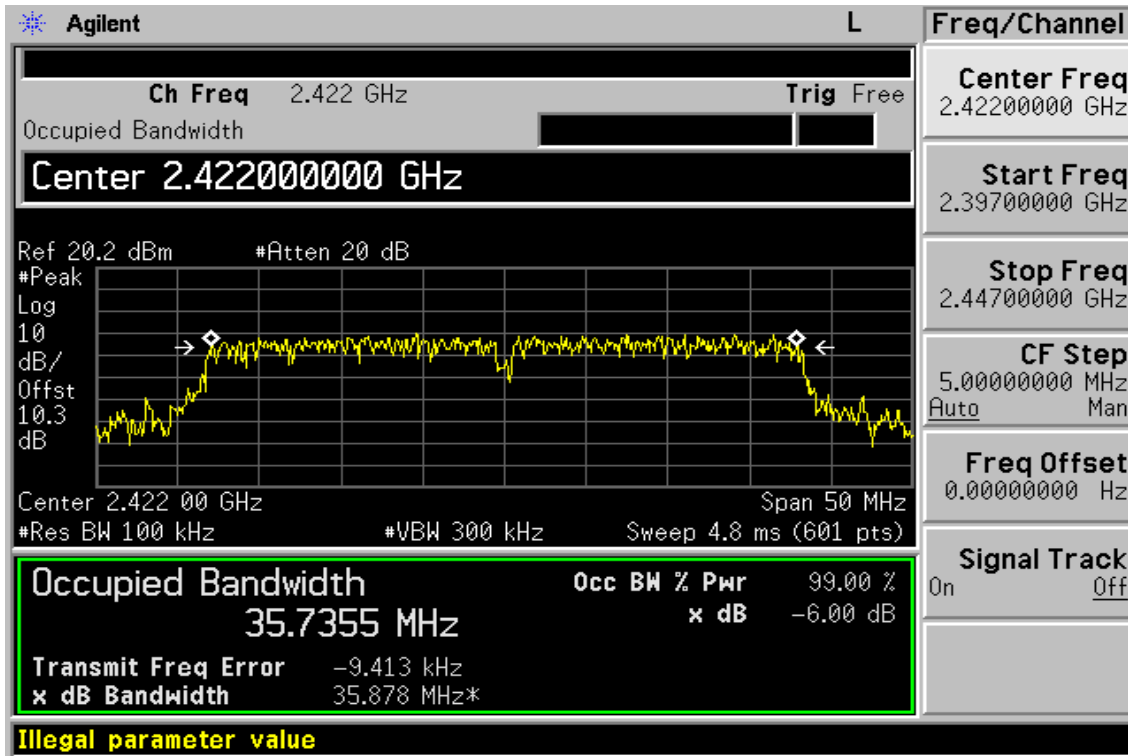
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6dB Band Width Test Data CH-High, 802.11n\_20M, 6.5M mode

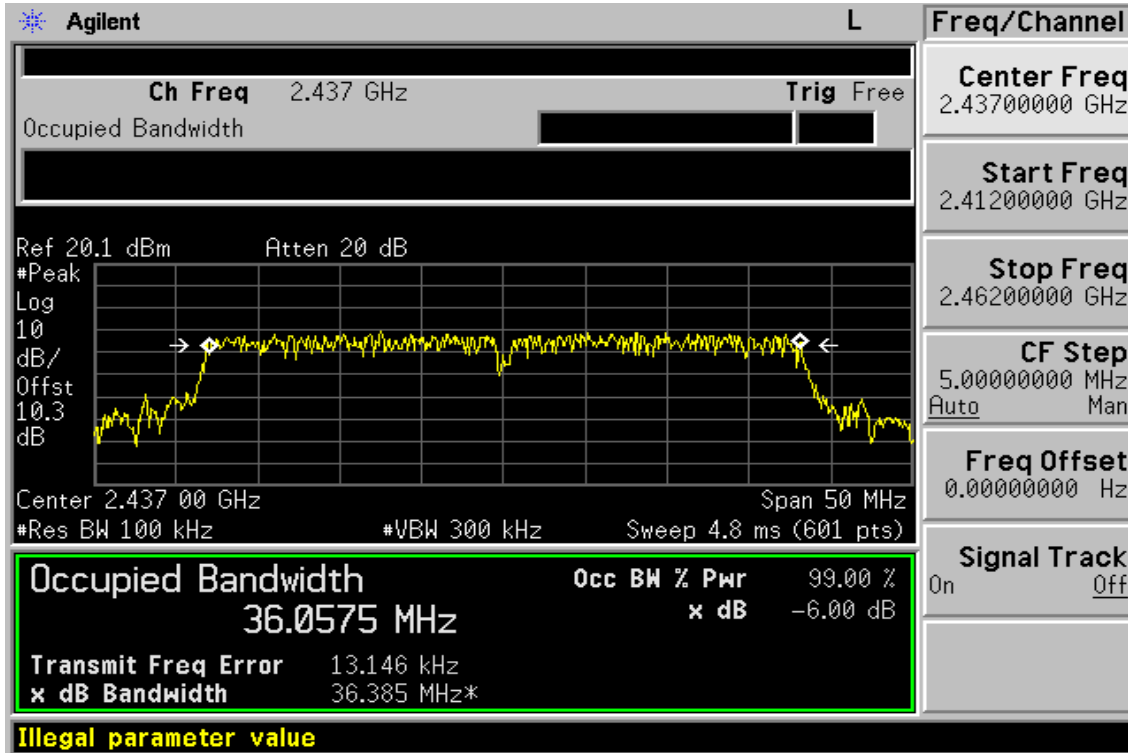


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**6dB Band Width Test Data CH-Low, 802.11n\_40M, 6.5M mode**

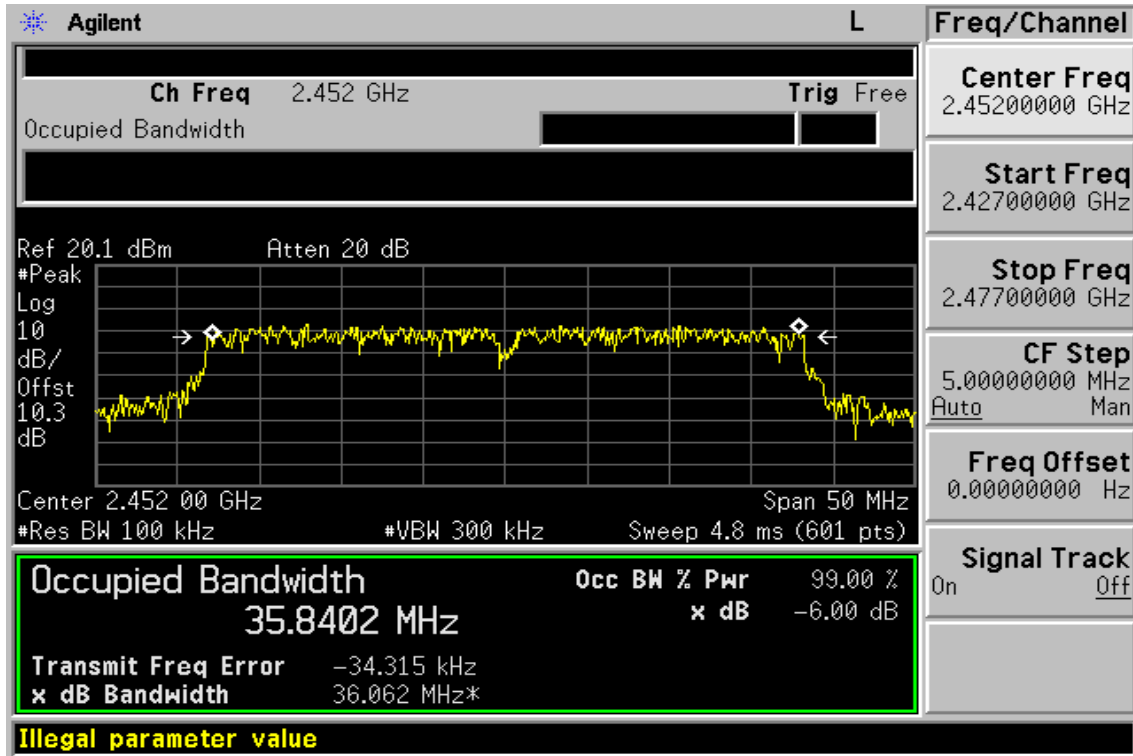


**6dB Band Width Test Data CH-Mid, 802.11n\_40M, 6.5M mode**



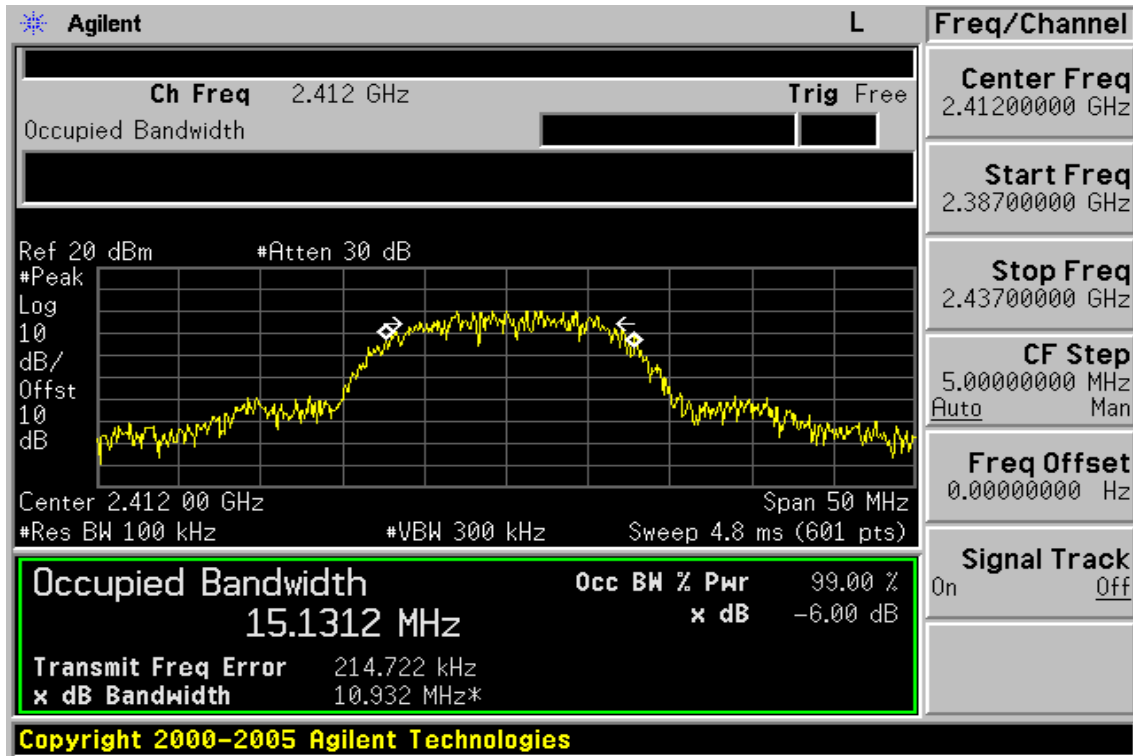
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**6dB Band Width Test Data CH-High, 802.11n\_40M, 6.5M mode**

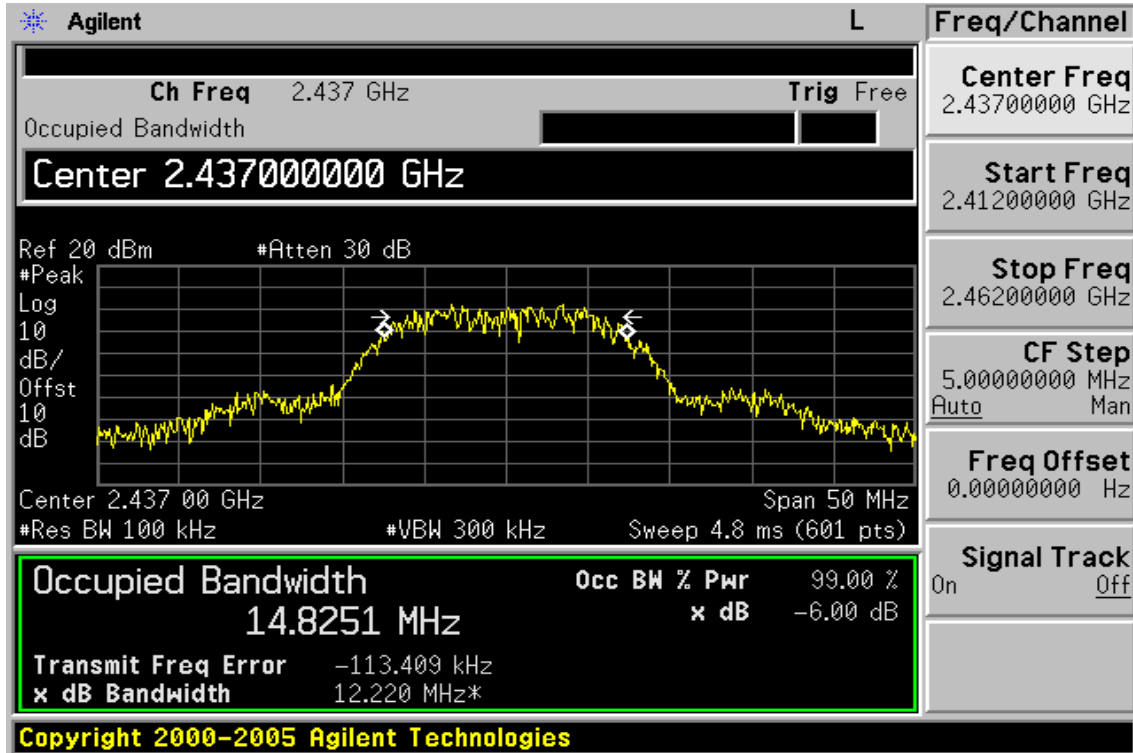


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### High 6dB Band Width Test Data CH-Low, 802.11b, 11M mode

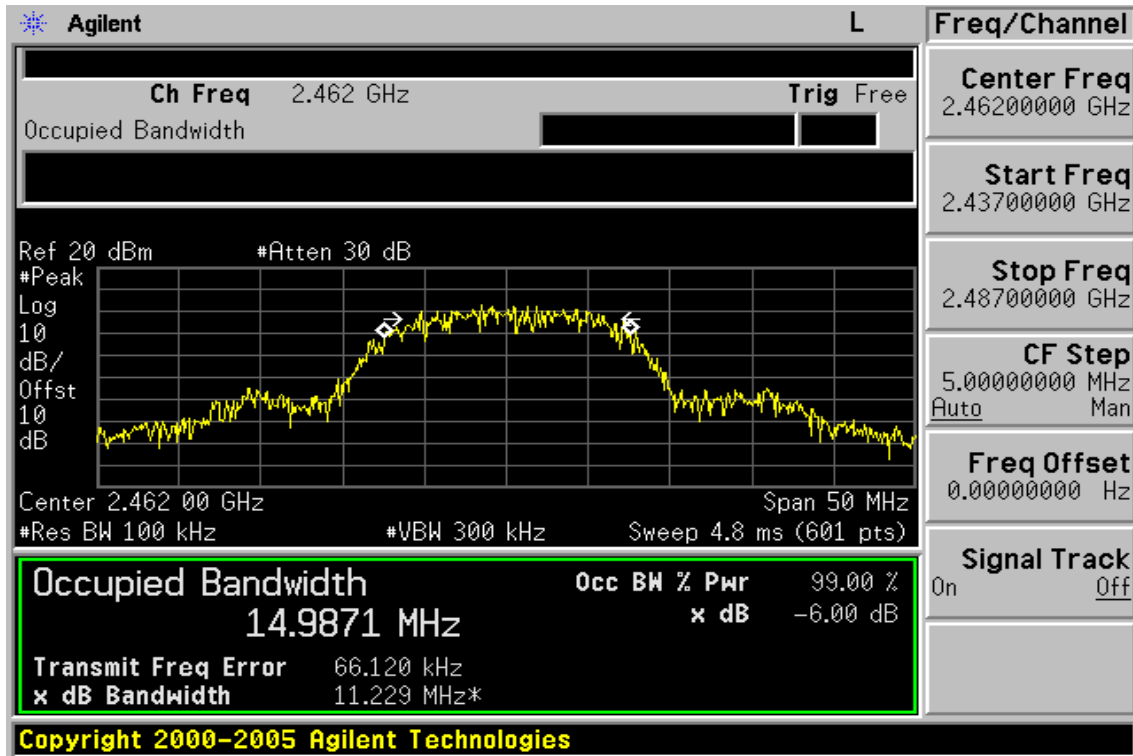


### 6dB Band Width Test Data CH-Mid, 802.11b, 11M mode



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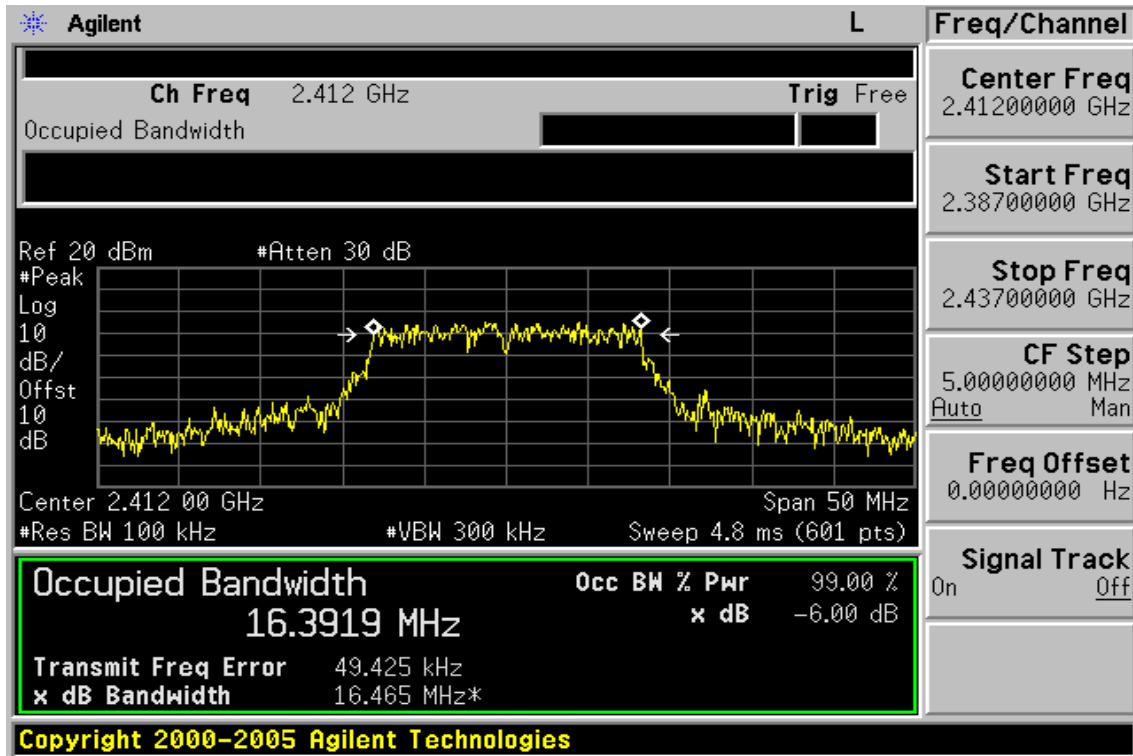
### 6dB Band Width Test Data CH-High, 802.11b, 11M mode



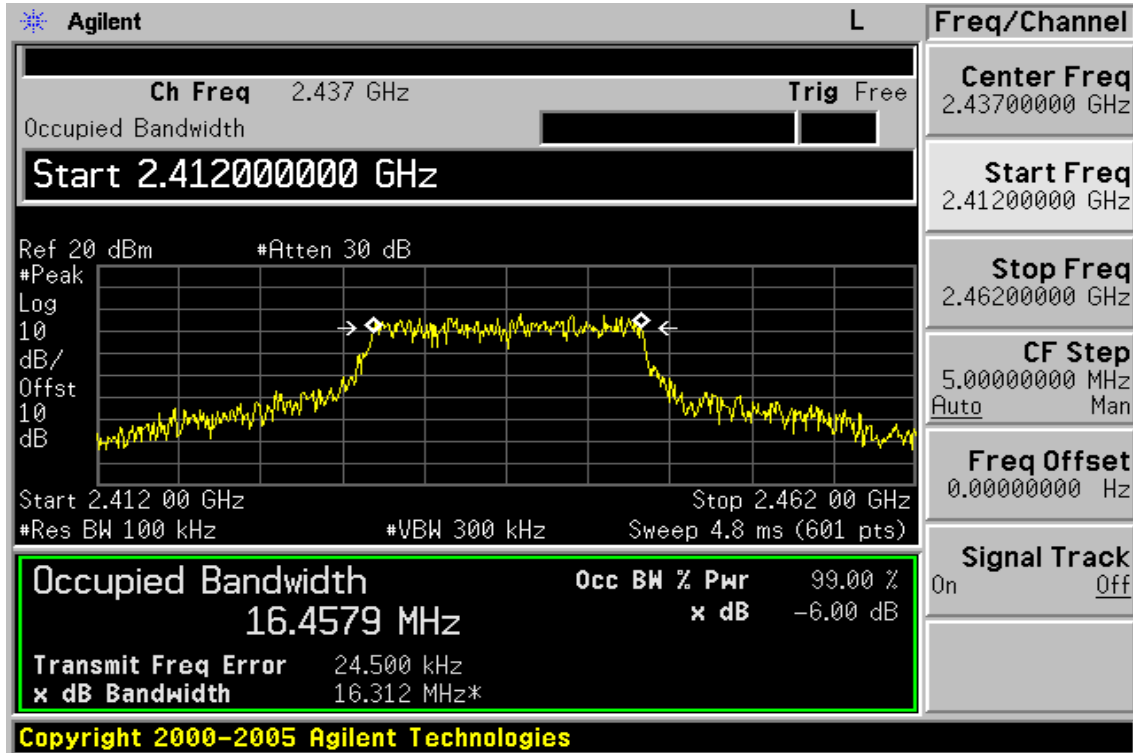
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### 6dB Band Width Test Data CH-Low, 802.11g, 54M mode

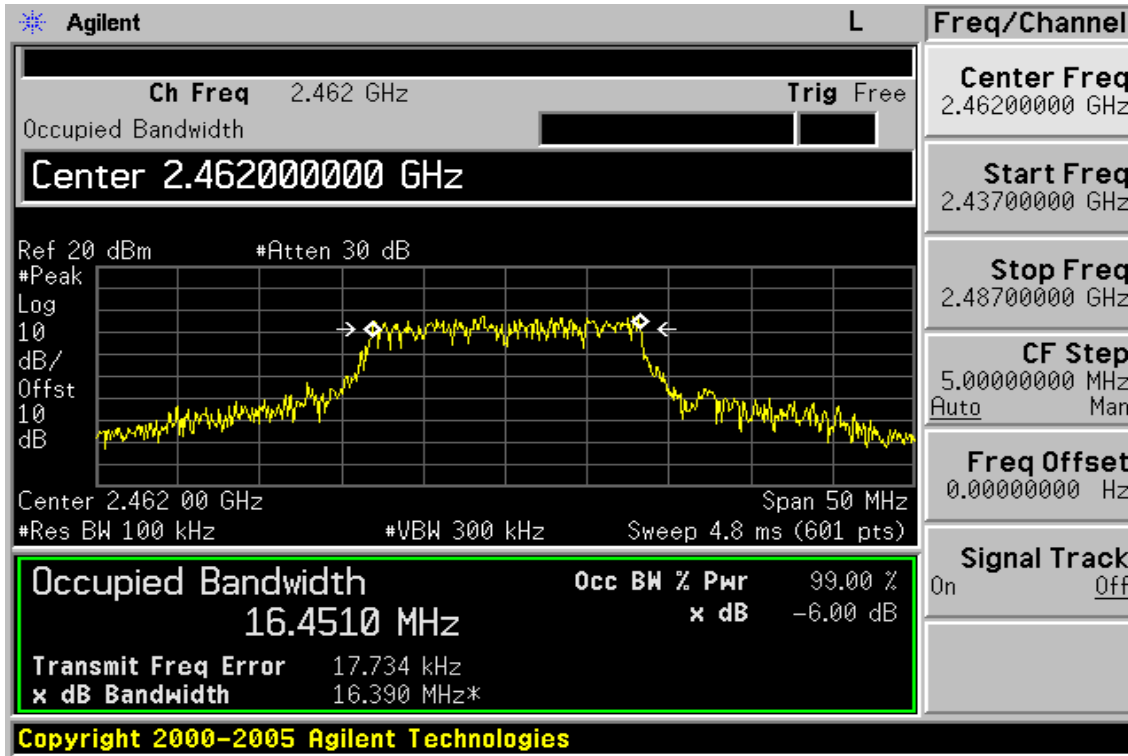


### 6dB Band Width Test Data CH-Mid, 802.11g, 54M mode



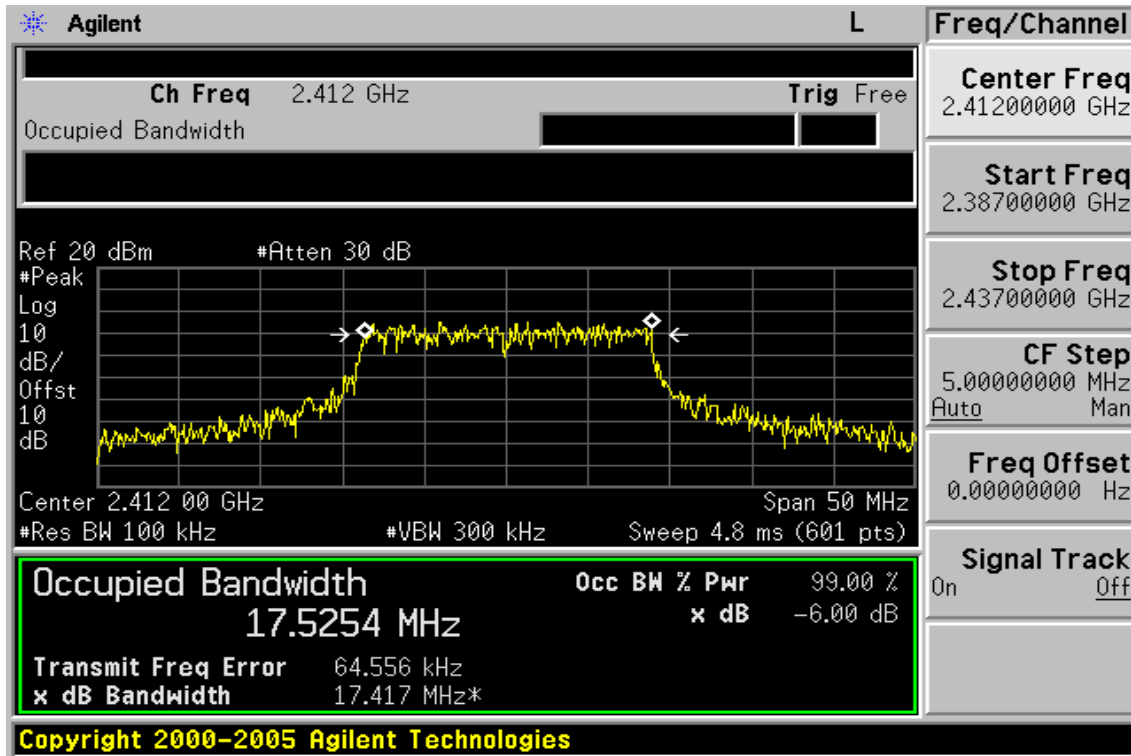
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**6dB Band Width Test Data CH-High, 802.11g , 54M mode**

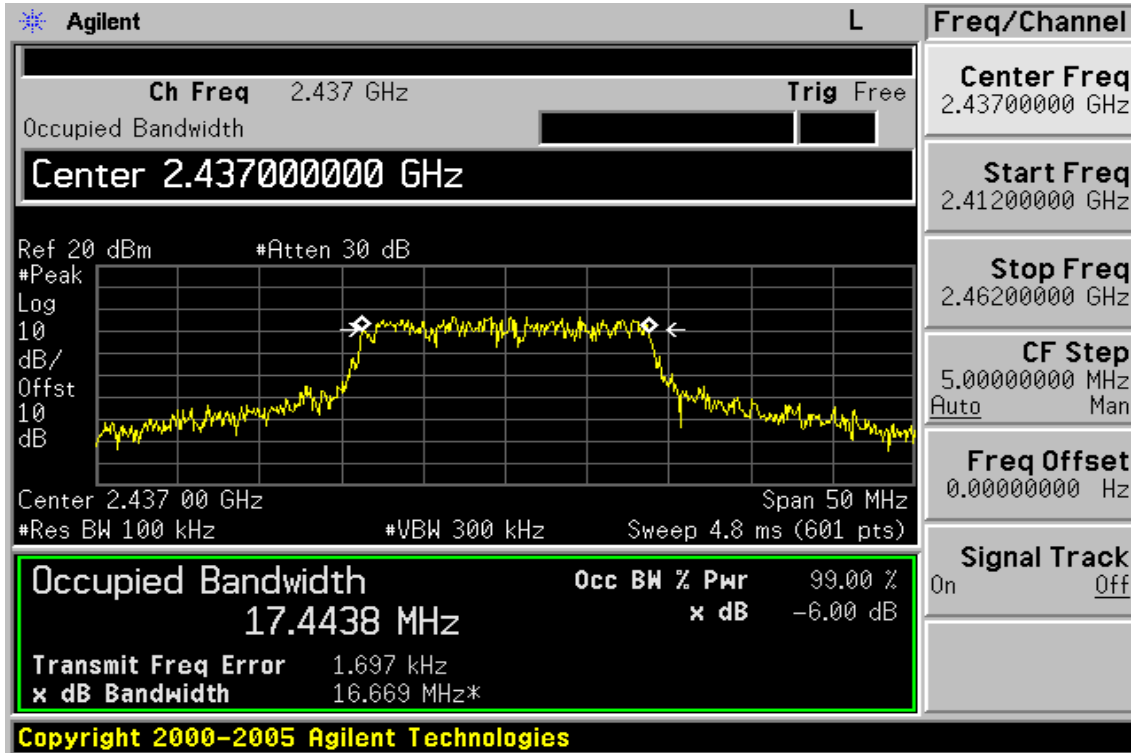


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## 6dB Band Width Test Data CH-Low, 802.11n\_20M, 65M mode

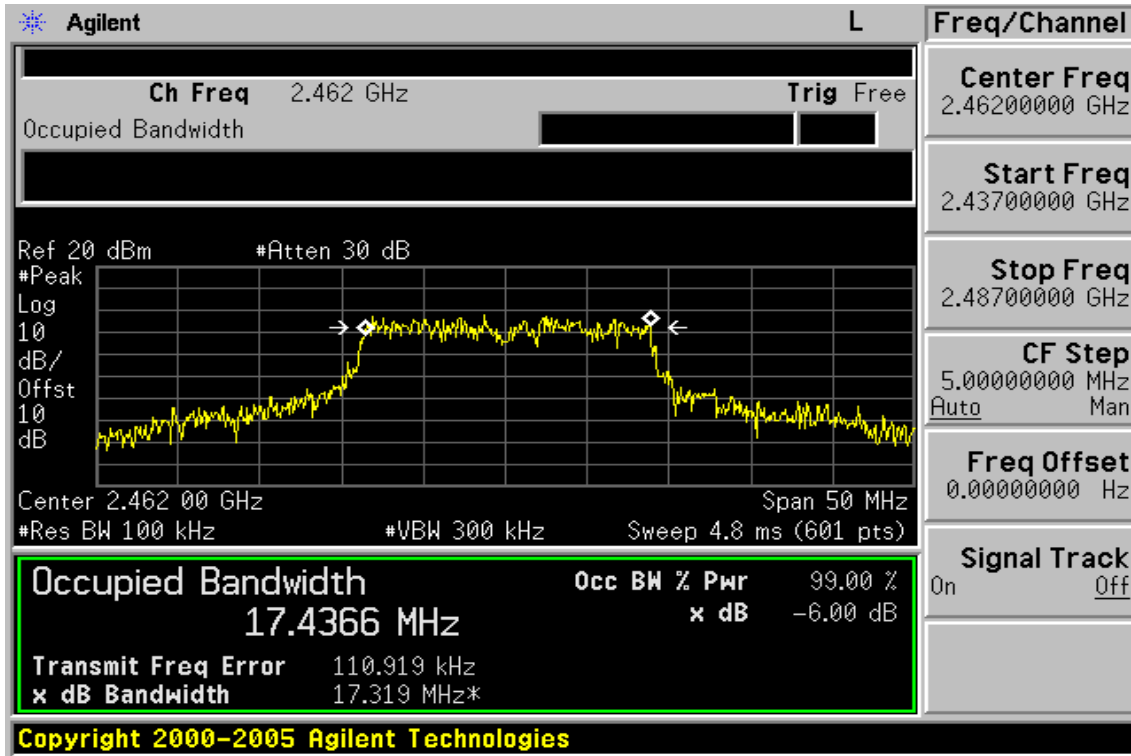


## 6dB Band Width Test Data CH-Mid, 802.11n\_20M, 65M mode



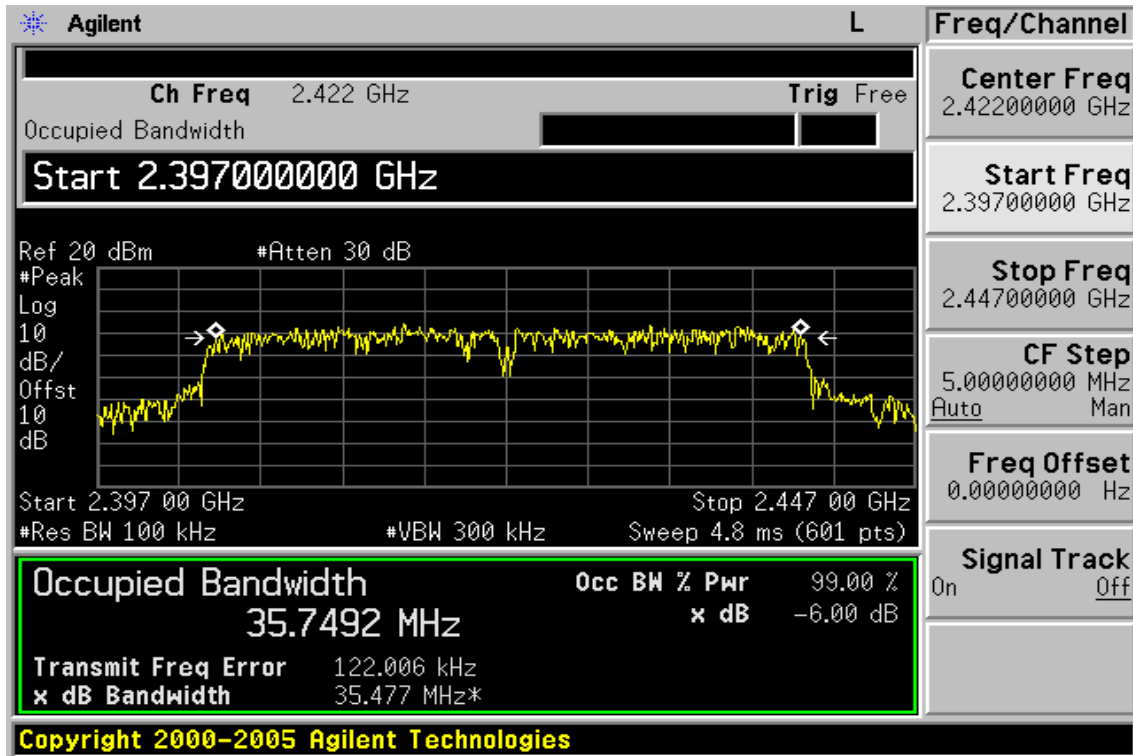
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### 6dB Band Width Test Data CH-High, 802.11n\_20M, 65M mode

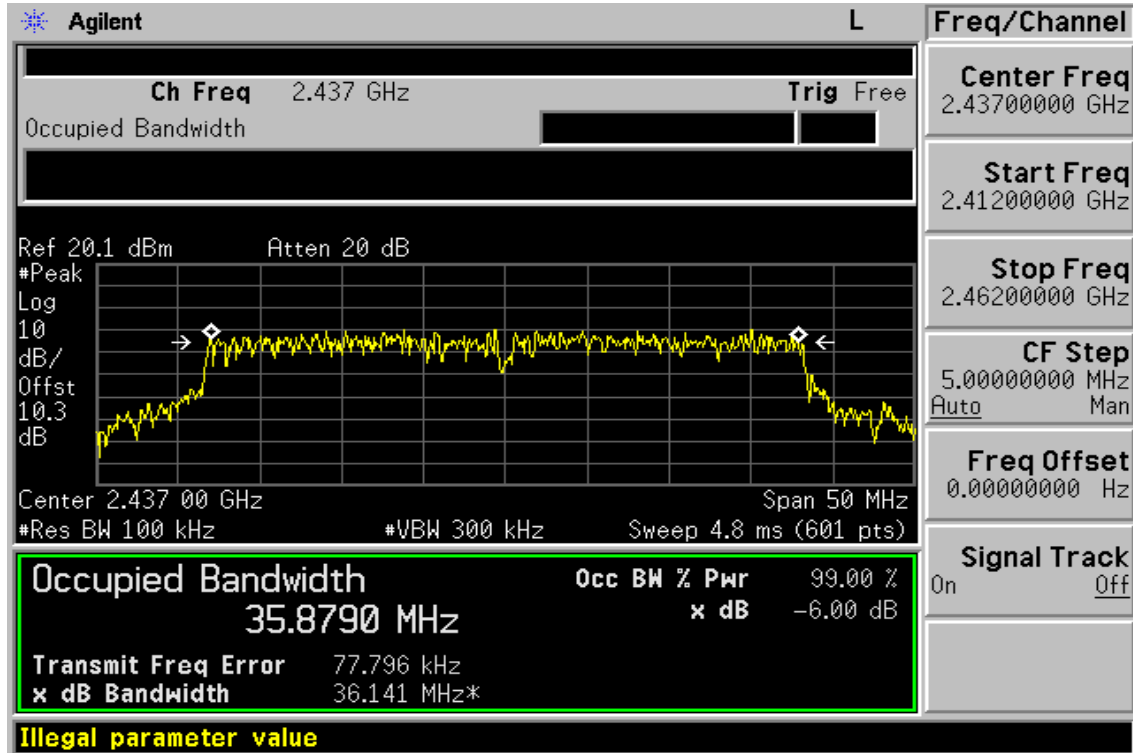


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**6dB Band Width Test Data CH-Low, 802.11n\_40M, 65M mode**

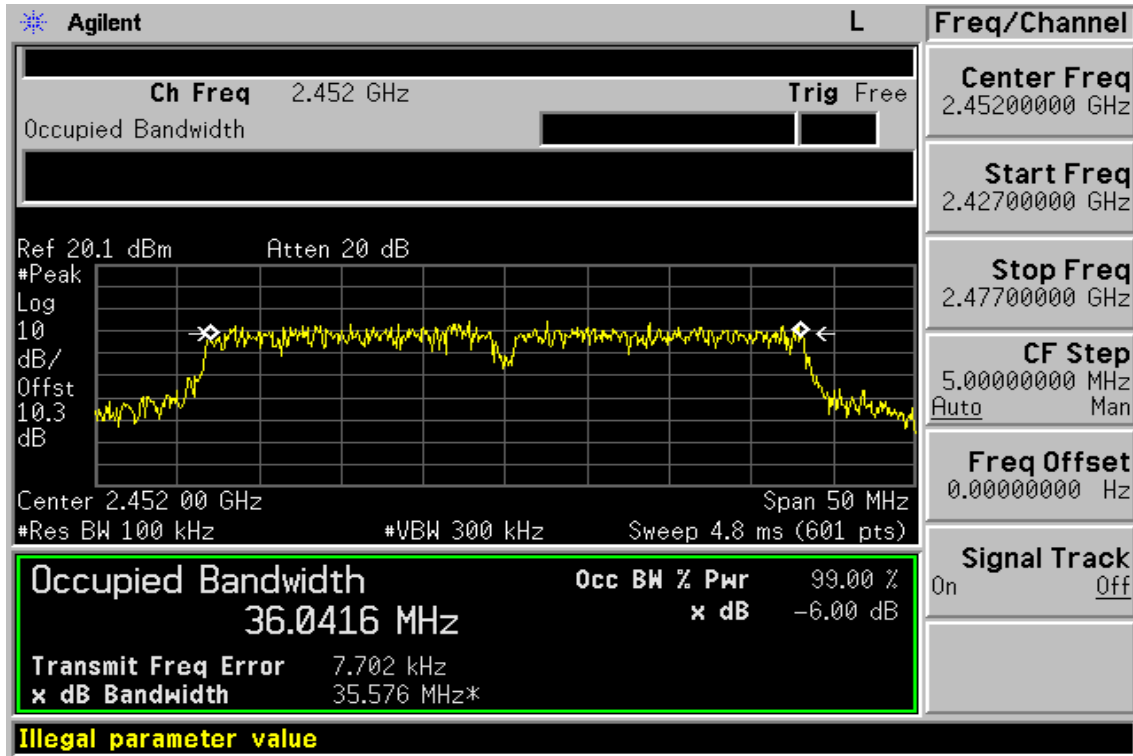


**6dB Band Width Test Data CH-Mid, 802.11n\_40M, 65M mode**



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**6dB Band Width Test Data CH-High, 802.11n\_40M, 65M mode**



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## 8. 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

### 8.1 Standard Applicable

According to §15.247(c), in any 100 KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

According to §RSS-210 Annex8.5: In any 100 kHz bandwidth outside the operating frequency bands, between 30 MHz and 5 times the carrier frequency, the unwanted emission spectral density shall be either at least 20 dB below the inband spectral density, or shall not exceed the levels specified in Table 3, whichever is less stringent. Note: For frequency hopping systems, the inband density  $S_i$  shall be measured with the hopping sequence stopped at the lowest channel and the highest channel in turn, as well as with the hopping running normally. The 20 dB shall be with reference to the lowest of the three  $S_i$  values.

### 8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span=25MHz, Sweep = auto
5. Mark Peak, 2.390GHz and 2.4835GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.

### 8.3 Measurement Result

Refer to attach spectrum analyzer data chart.

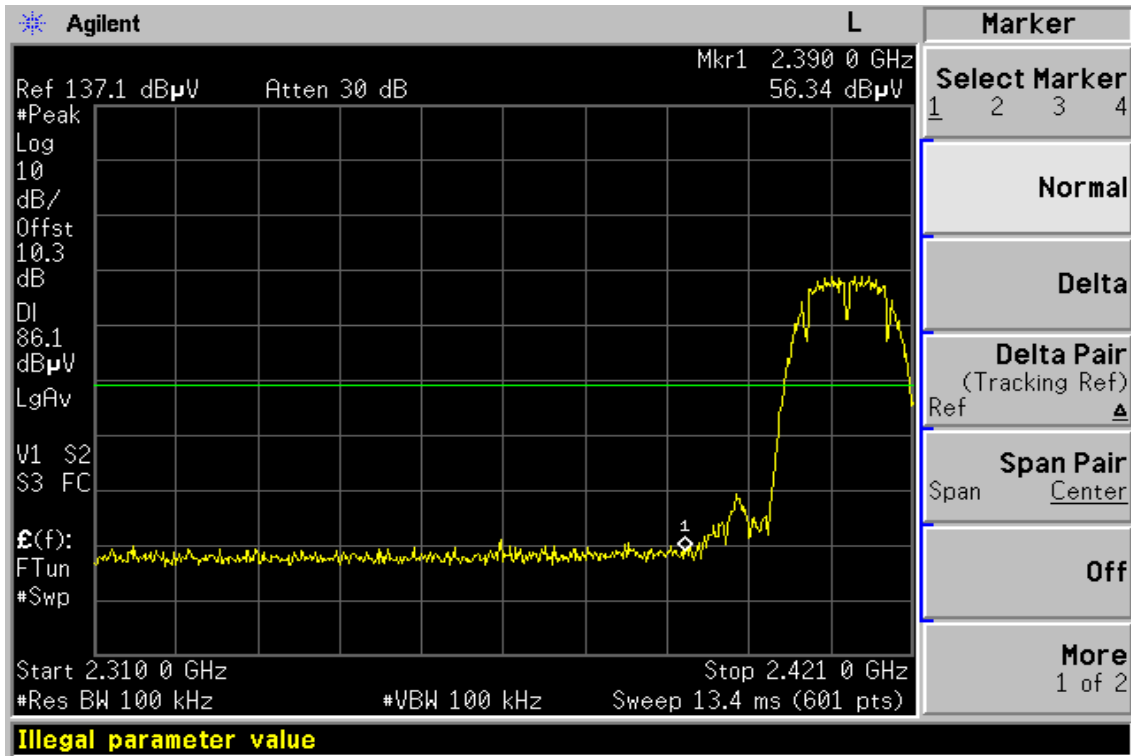
#### 8.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Agilent	ZFSC-2-10G	N/A	10/07/2006	10/06/2007

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**Band Edges Test Data CH-Low , 802.11b, 1M mode**

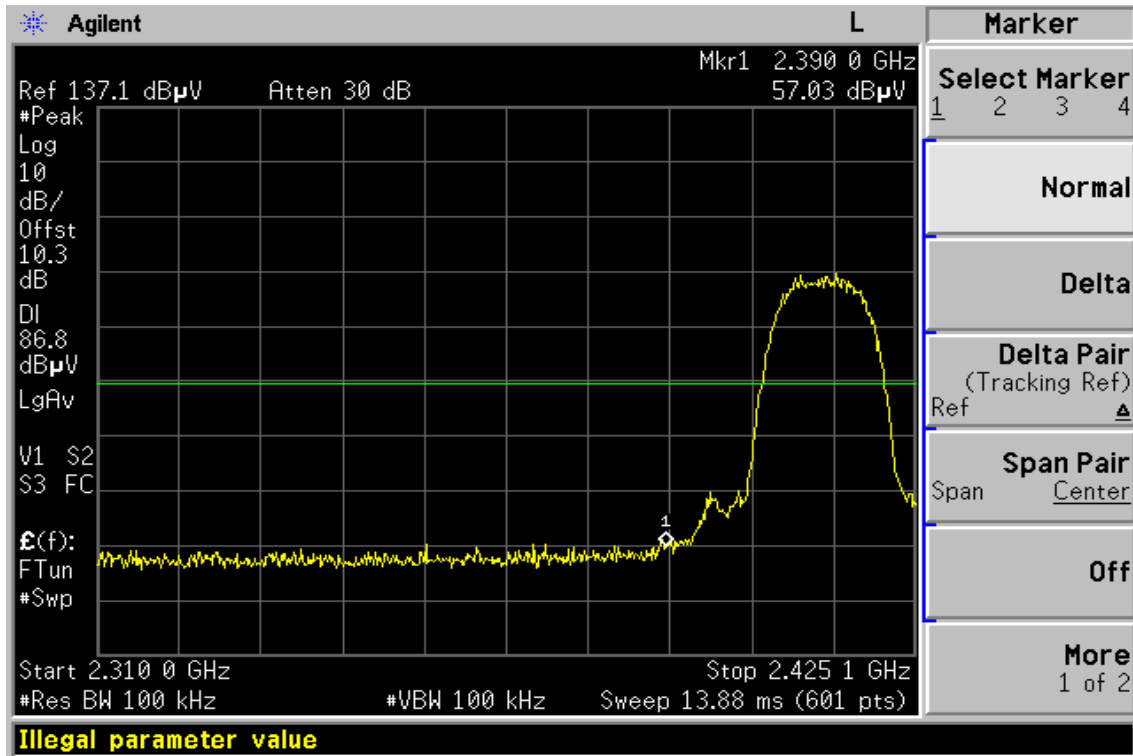


**Band Edges Test Data CH-High , 802.11b,1M mode**

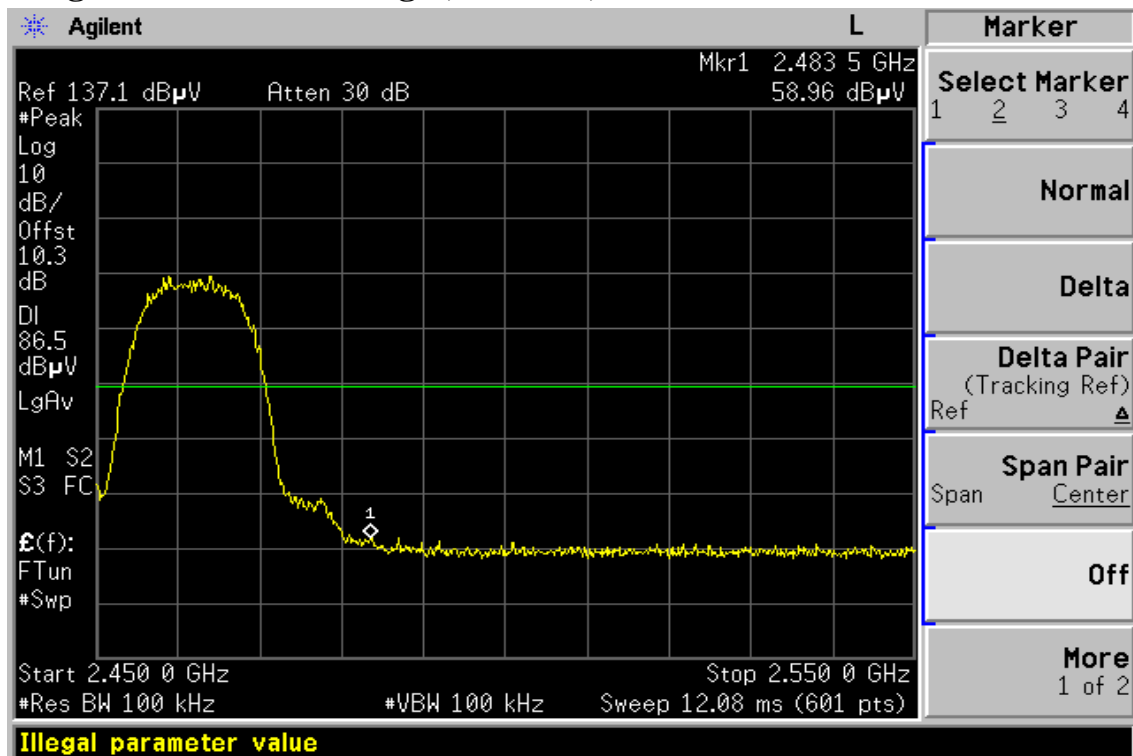


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### Band Edges Test Data CH-Low , 802.11b, 11M mode



### Band Edges Test Data CH-High , 802.11b,11M mode



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**Radiated Emission: The Worst Mode**

Operation Mode	TX CH Low 802.11b mode 11M	Test Date	Sep. 18, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25°C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	45.43	---	-1.39	44.04	---	74.00	54.00	-9.96	Peak

Operation Mode	TX CH Low 802.11b mode 11M	Test Date	Sep. 18, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	48.29	---	-1.39	46.90	---	74.00	54.00	-7.10	Peak

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Emission: The Worst Mode**

Operation Mode	TX CH High 802.11b mode 11M	Test Date	Sep. 18, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.56	42.47	---	-0.92	41.55	---	74.00	54.00	-12.45	Peak

Operation Mode	TX CH High 802.11b mode 11M	Test Date	Sep. 18, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

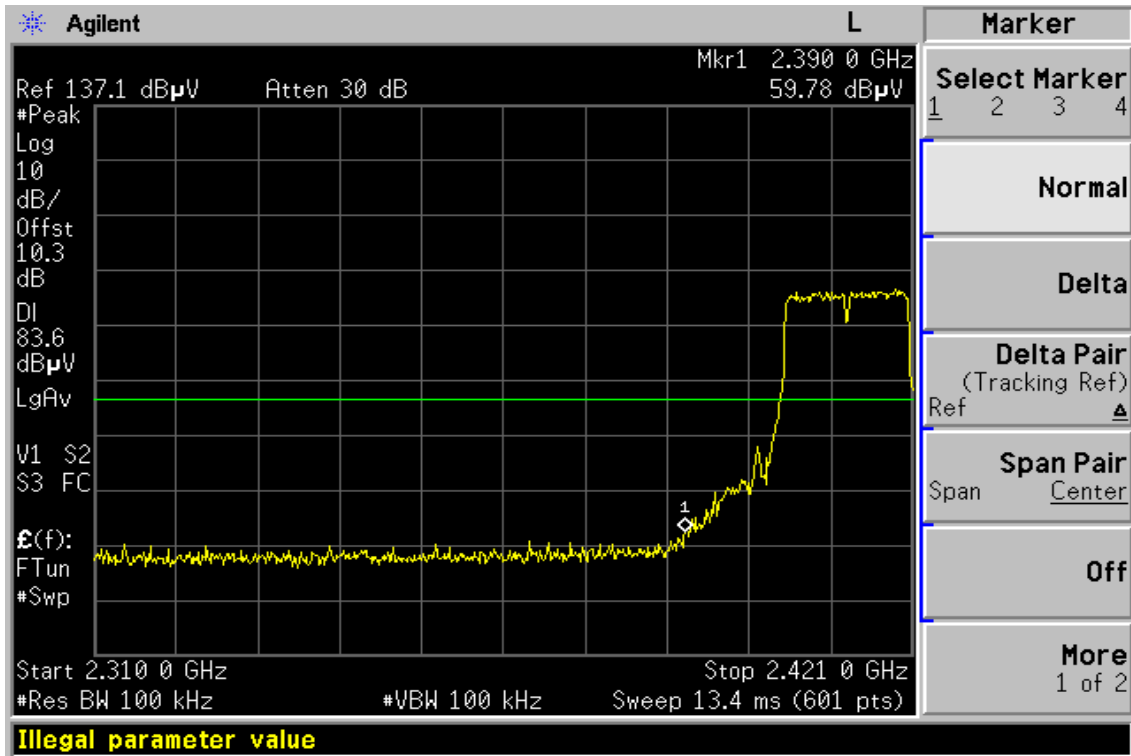
Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.56	46.37	---	-0.92	45.45	---	74.00	54.00	-8.55	Peak

Remark :

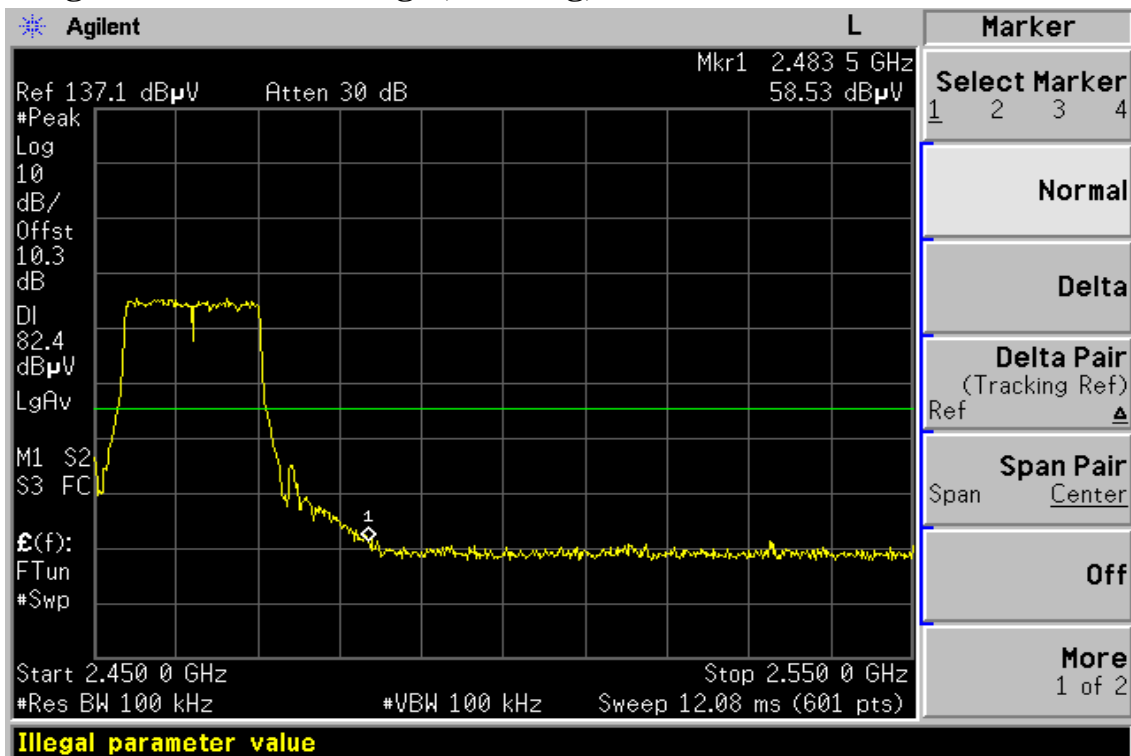
- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Band Edges Test Data CH-Low , 802.11g, 6M mode

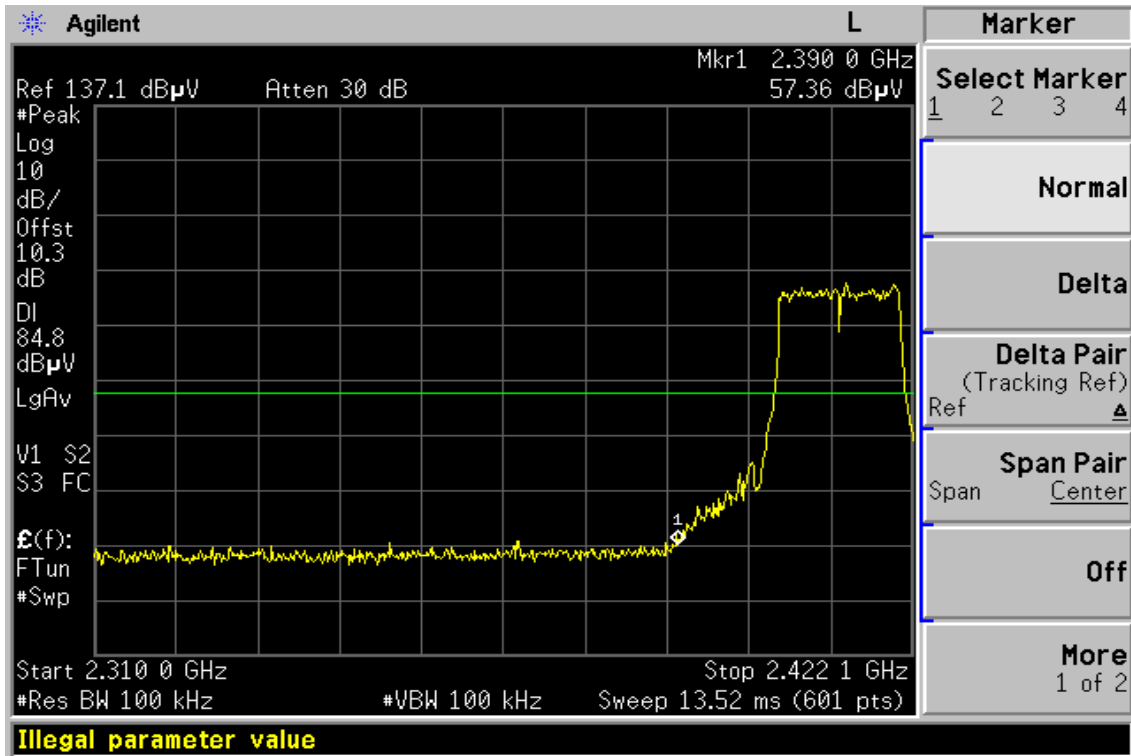


### Band Edges Test Data CH-High , 802.11g, 6M mode

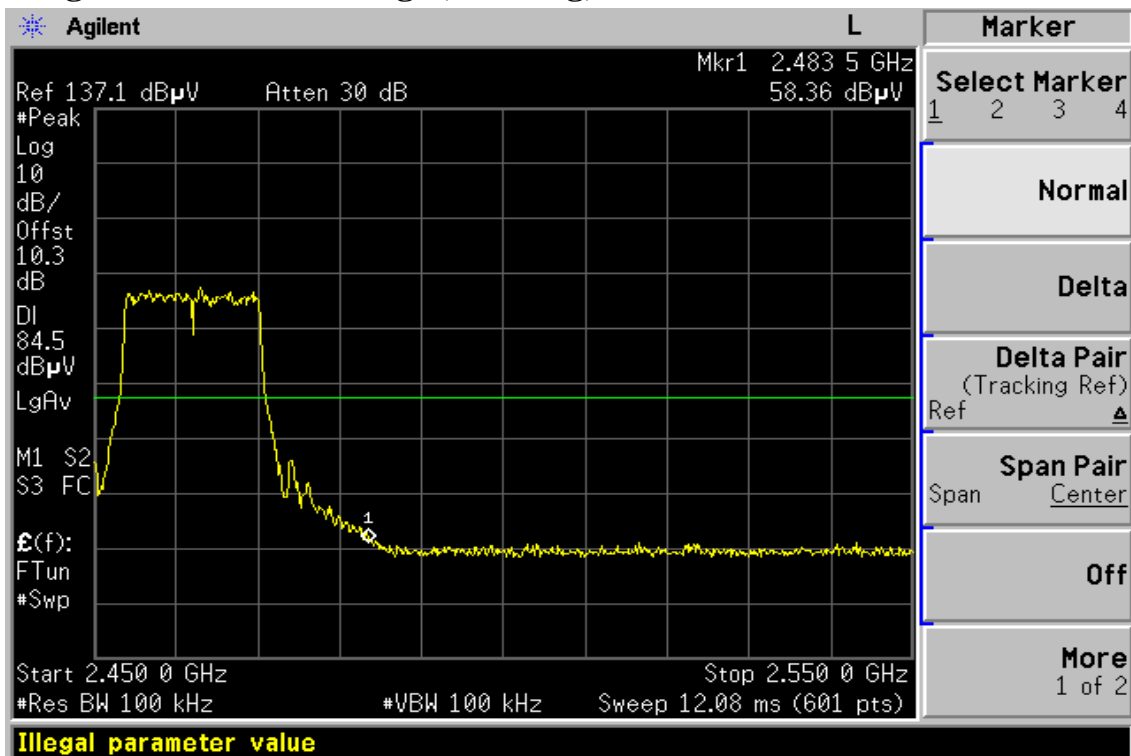


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**Band Edges Test Data CH-Low , 802.11g, 54M mode**



**Band Edges Test Data CH-High , 802.11g, 54M mode**



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**Radiated Emission: The Worst Mode**

Operation Mode	TX CH Low 802.11g mode 54M	Test Date	Sep. 18, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	40.90	---	-1.39	39.51	---	74.00	54.00	-14.49	Peak

Operation Mode	TX CH Low 802.11g mode 54M	Test Date	Sep. 18, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	47.31	---	-1.39	45.92	---	74.00	54.00	-8.08	Peak

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Emission: The Worst Mode**

Operation Mode	TX CH High 802.11g mode 54M	Test Date	Sep. 18, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)				
2483.56	47.94	---	-0.92	47.02	---	74.00	54.00	-6.98	Peak

Operation Mode	TX CH High 802.11g mode 54M	Test Date	Sep. 18, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)				
2483.56	51.30	---	-0.92	50.38	---	74.00	54.00	-3.62	Peak

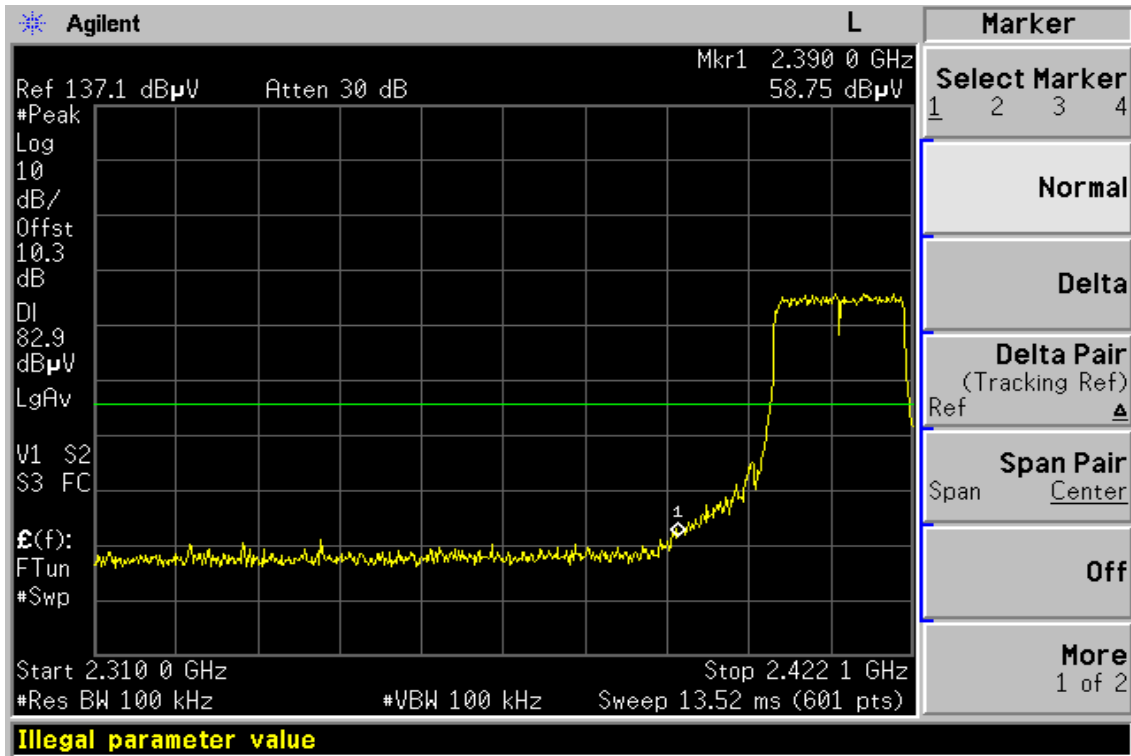
**Remark :**

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

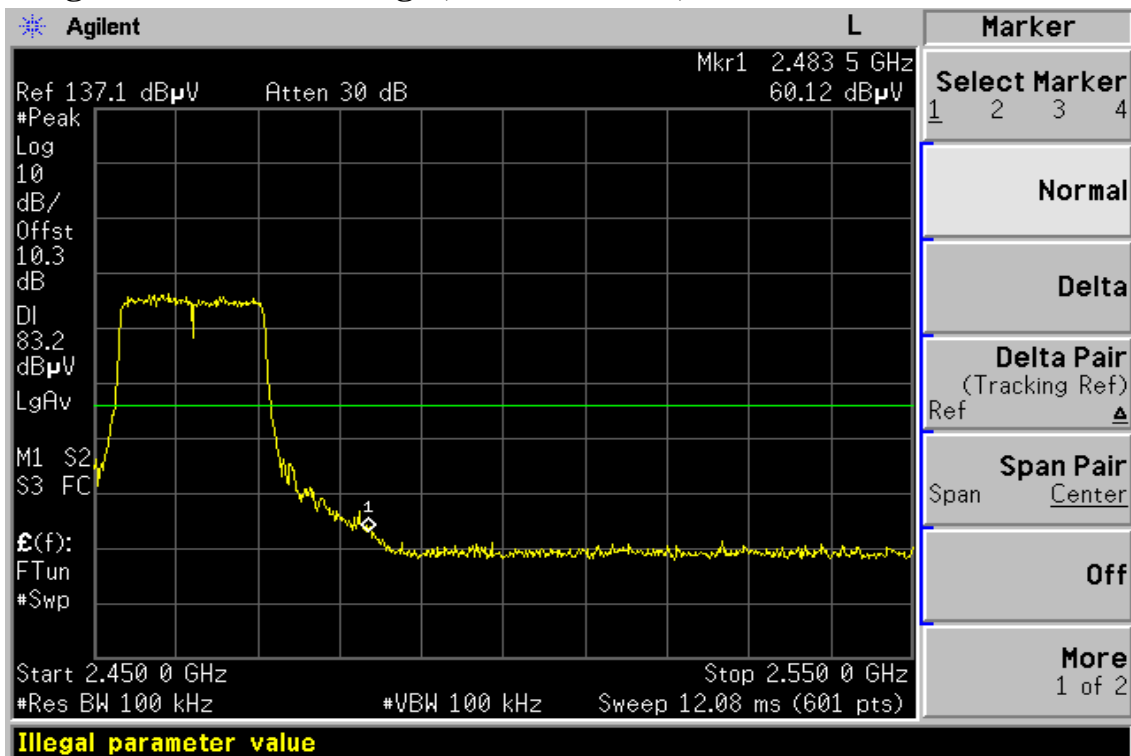
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## Band Edges Test Data CH-Low , 802.11n\_20M, 6.5M mode

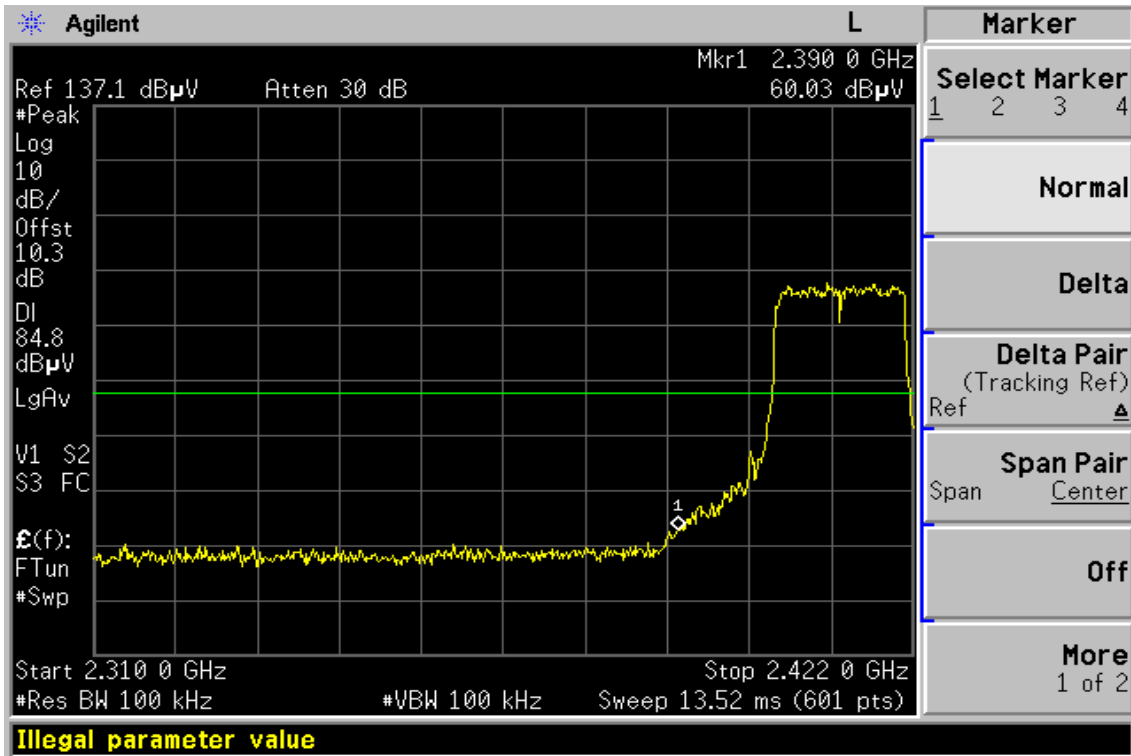


## Band Edges Test Data CH-High , 802.11n\_20M, 6.5M mode

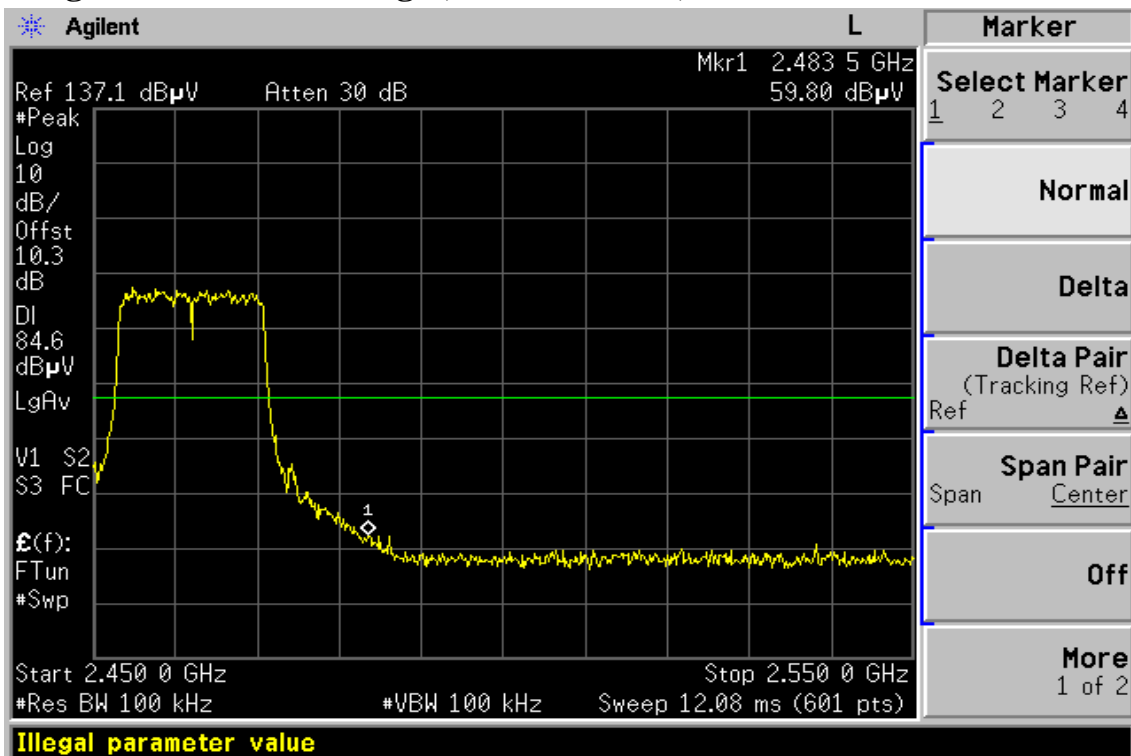


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## Band Edges Test Data CH-Low , 802.11n\_20M, 65M mode



## Band Edges Test Data CH-High , 802.11n\_20M, 65M mode



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**Radiated Emission: The Worst Mode**

Operation Mode	TX CH Low 802.11n_20M, 65M mode	Test Date	Sep. 18, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Reading (dBuV/m)	Reading (dBuV/m)				
2390.00	43.81	---	-1.39	42.42	---	74.00	54.00	-11.58	Peak

Operation Mode	TX CH Low 802.11n_20M, 65M mode	Test Date	Sep. 18, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Reading (dBuV/m)	Reading (dBuV/m)				
2390.00	48.83	---	-1.39	47.44	---	74.00	54.00	-6.56	Peak

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Emission: The worst mode**

Operation Mode	TX CH High 802.11n_20M, 65M mode	Test Date	Sep. 18, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
2483.56	47.62	---	-0.92	46.70	---	74.00	54.00	-7.30	Peak

Operation Mode	TX CH High 802.11n_20M, 65M mode	Test Date	Sep. 18, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25	Pol	Hor.
Humidity	65 %		

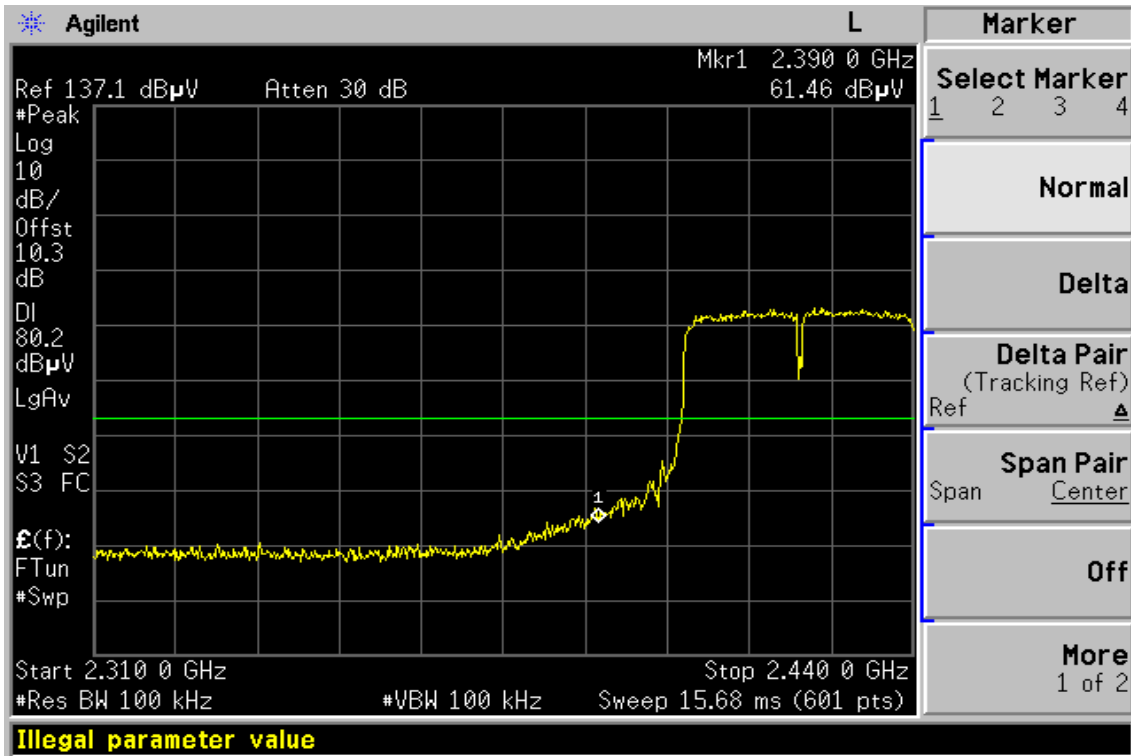
Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF(dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
2483.56	50.77	---	-0.92	49.85	---	74.00	54.00	-4.15	Peak

**Remark :**

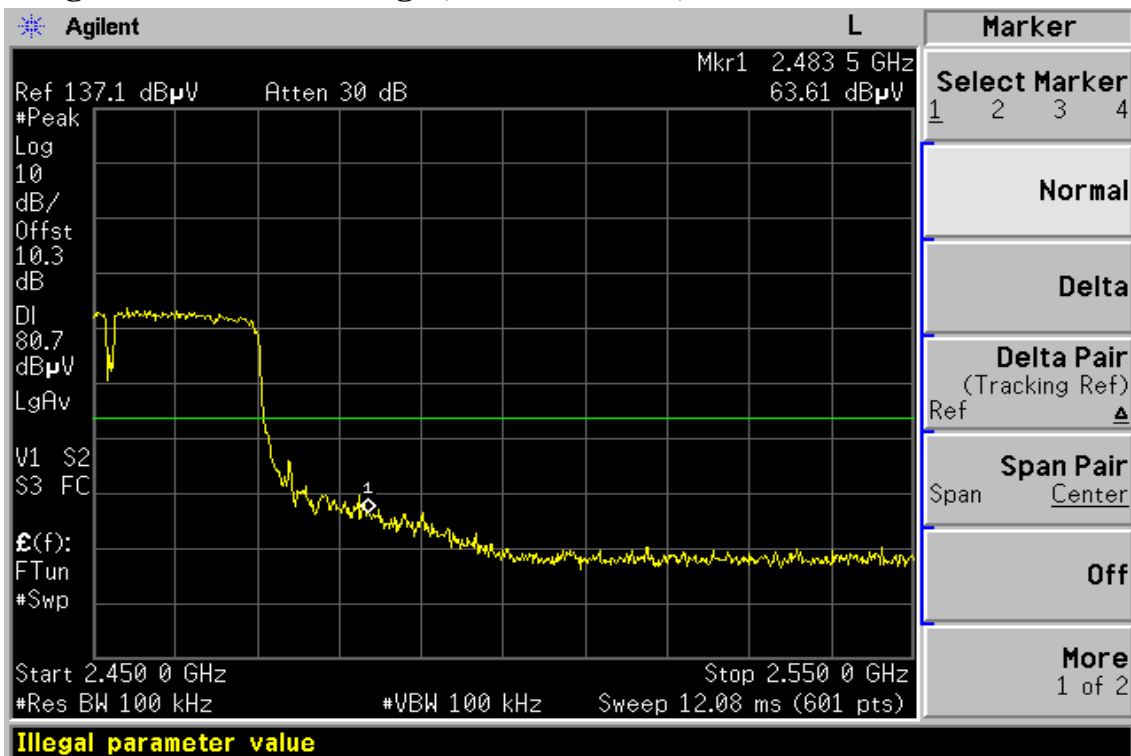
- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Band Edges Test Data CH-Low , 802.11n\_40M, 6.5M mode**

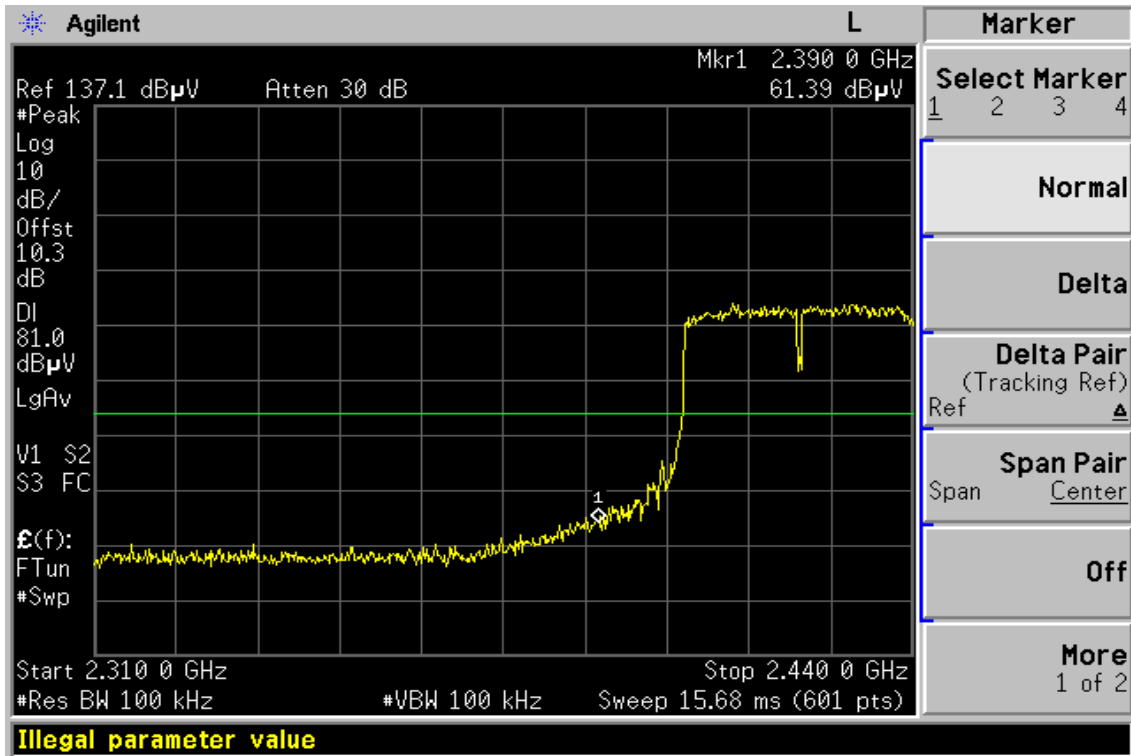


**Band Edges Test Data CH-High , 802.11n\_40M, 6.5M mode**

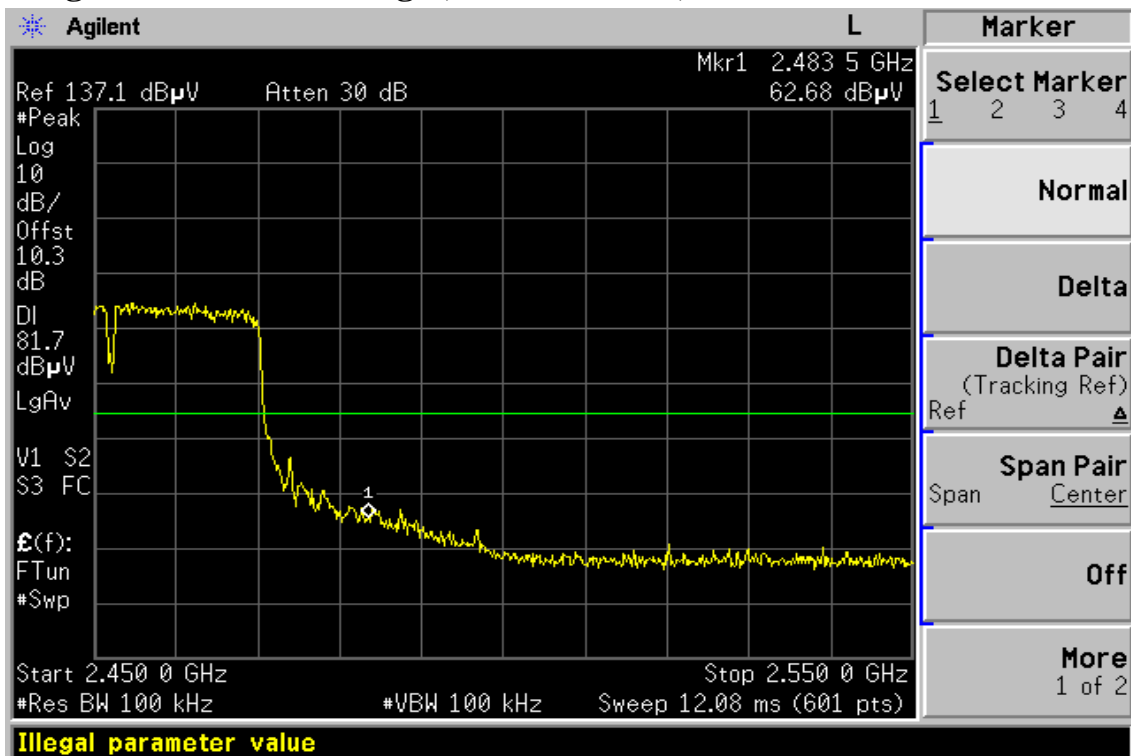


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**Band Edges Test Data CH-Low , 802.11n\_40M, 65M mode**



**Band Edges Test Data CH-High , 802.11n\_40M, 65M mode**



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**Radiated Emission: The worst mode**

Operation Mode	TX CH Low 802.11n_40M, 65M Mode	Test Date	Sep. 18, 2007
Fundamental Frequency	2422 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Reading (dBuV/m)	Reading (dBuV/m)				
2390.00	43.77	---	-1.39	42.38	---	74.00	54.00	-11.62	Peak

Operation Mode	TX CH Low 802.11n_40M, 65M Mode	Test Date	Sep. 18, 2007
Fundamental Frequency	2422 MHz	Test By	Jason
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Reading (dBuV/m)	Reading (dBuV/m)				
2390.00	53.40	---	-1.39	52.01	---	74.00	54.00	-1.99	Peak

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Emission:**

Operation Mode	TX CH High 802.11n_40M, 65M mode	Test Date	Sep. 18, 2007
Fundamental Frequency	2452 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.56	49.70	---	-0.92	48.78	---	74.00	54.00	-5.22	Peak

Operation Mode	TX CH High 802.11n_40M, 65M mode	Test Date	Sep. 18, 2007
Fundamental Frequency	2452 MHz	Test By	Jason
Temperature	25	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.56	53.92	---	-0.92	53.00	---	74.00	54.00	-1.00	Peak

**Remark :**

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## 9. SPURIOUS RADIATED EMISSION TEST

### 9.1 Standard Applicable

According to §15.247(c), all other emissions outside these bands shall not exceed the general radiated emission limits specified in §15.209(a). And according to §15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

According to §6.2.2(o) (e1): In any 100 kHz bandwidth outside the operating frequency bands, between 30 MHz and 5 times the carrier frequency, the unwanted emission spectral density shall be either at least 20 dB below the inband spectral density, or shall not exceed the levels specified in Table 3, whichever is less stringent. Note: For frequency hopping systems, the inband density  $S_i$  shall be measured with the hopping sequence stopped at the lowest channel and the highest channel in turn, as well as with the hopping running normally. The 20 dB shall be with reference to the lowest of the three  $S_i$  values.

### 9.2 EUT Setup

1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4-2003.
2. The EUT was put in the front of the test table. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The spacing between the peripherals was 10 centimeters.
4. External I/O cables were draped along the edge of the test table and bundle when necessary.

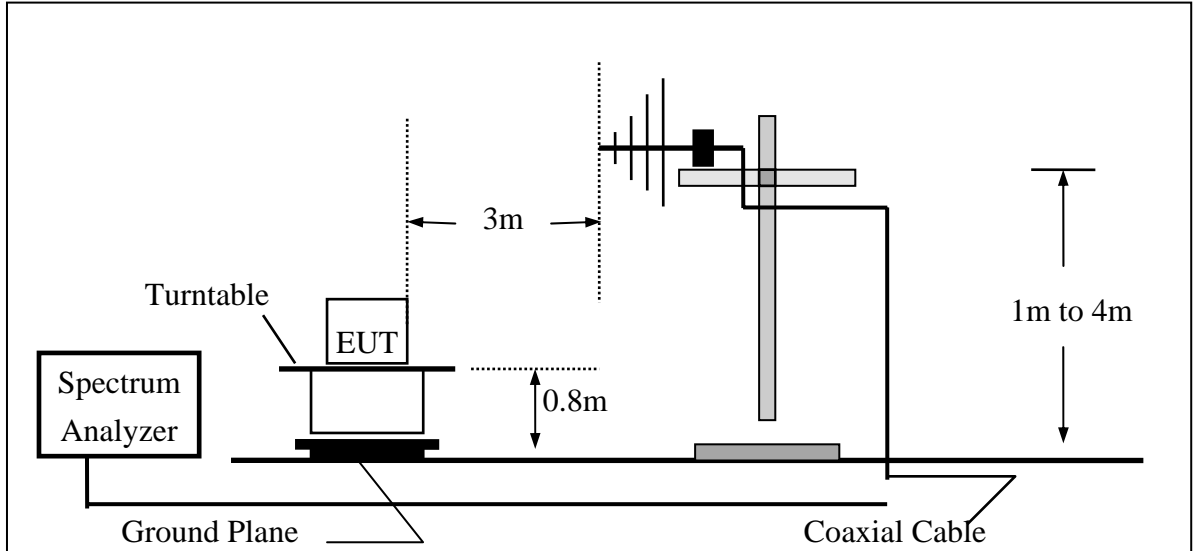
### 9.3 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until all frequency measured were complete.

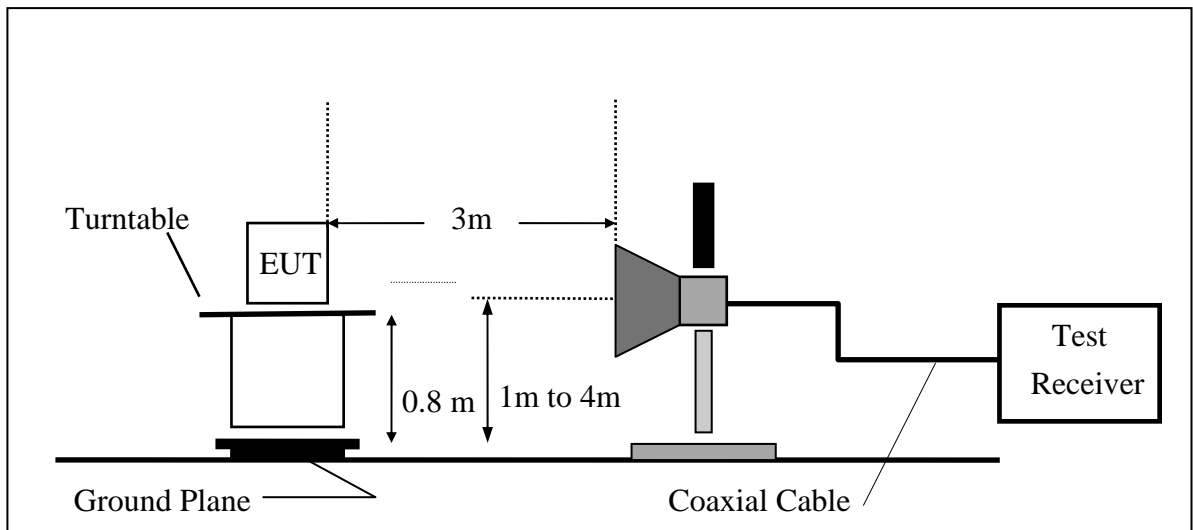
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### 9.4 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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## 9.5 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2007	03/28/2008
Bi-log Antenna	SCHWAZBECK	VULB9160	9160-3158	10/17/2006	10/16/2007
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	12/14/2006	12/13/2007
Horn antenna	SCHWAZBECK	BBHA 9170	184/185	12/13/2007	12/12/2008
Pre-Amplifier	HP	8447D	2944A09469	01/05/2007	01/04/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2007	02/25/2008
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2006	10/08/2007
Site NSA	SGS	966 chamber	N/A	11/17/2006	11/16/2007

## 9.6 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

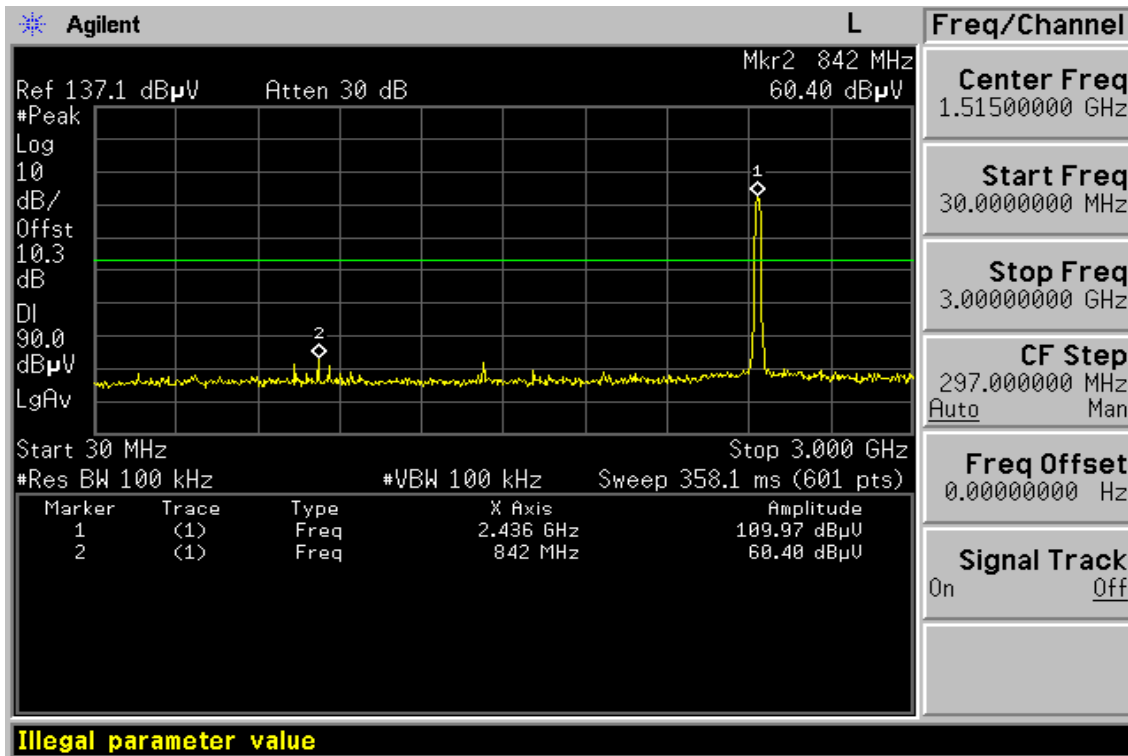
Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

## 9.7 Measurement Result

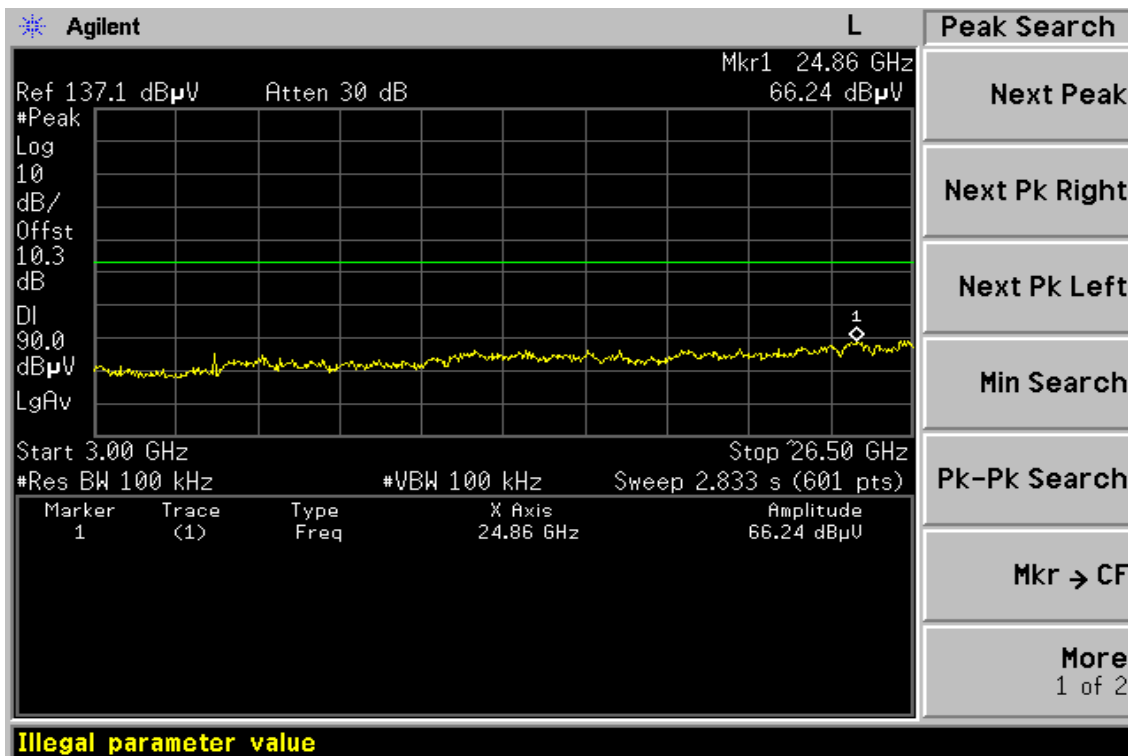
Refer to attach tabular data sheets.

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## Conducted Spurious Emission Measurement Result (802.11b), 1M Ch Low 30MHz – 3GHz

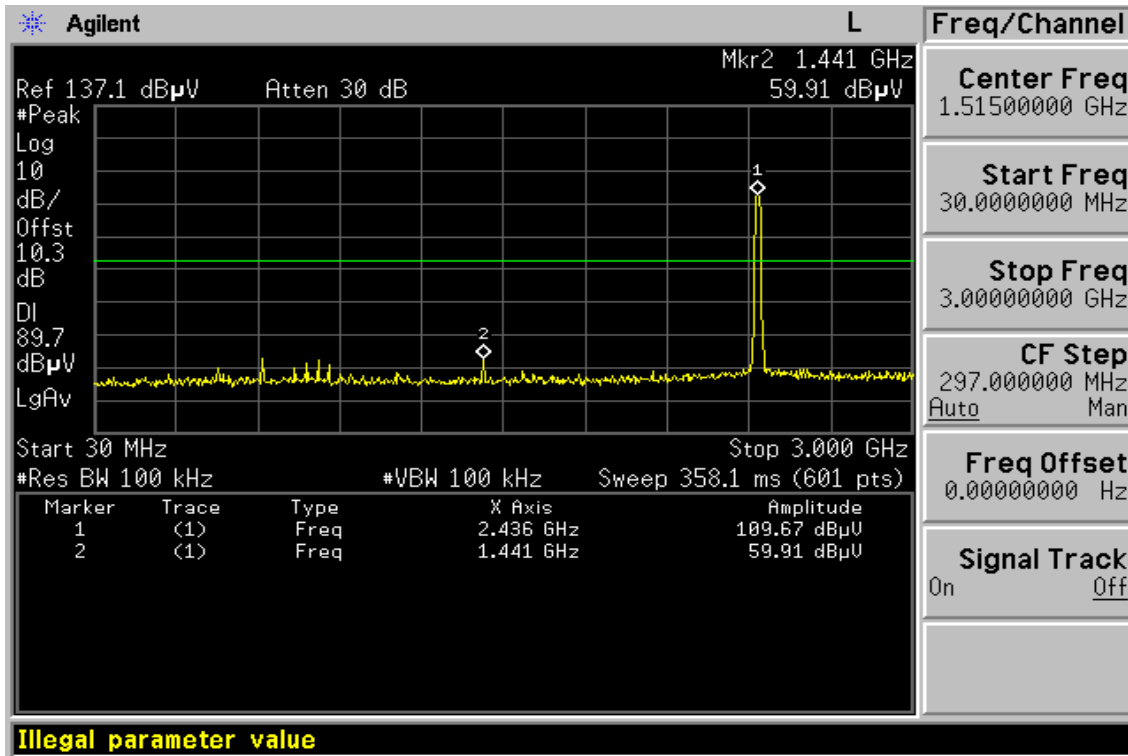


## Ch Low 3GHz – 26.5GHz

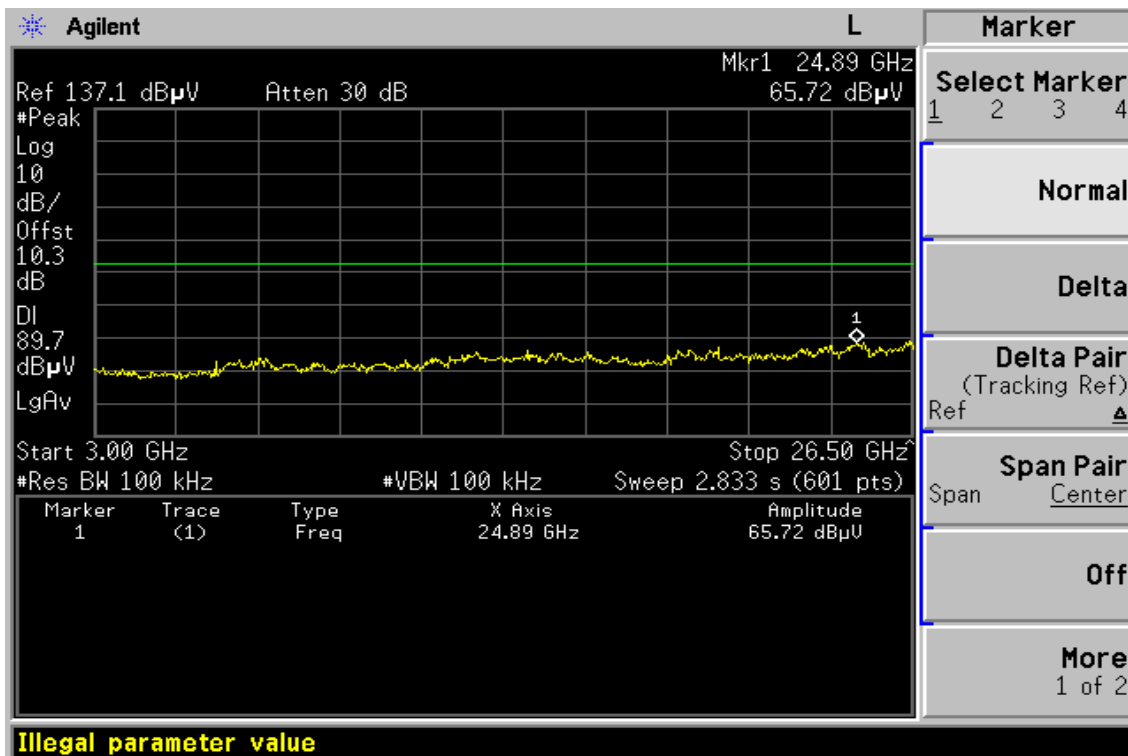


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## Ch Mid 30MHz – 3GHz

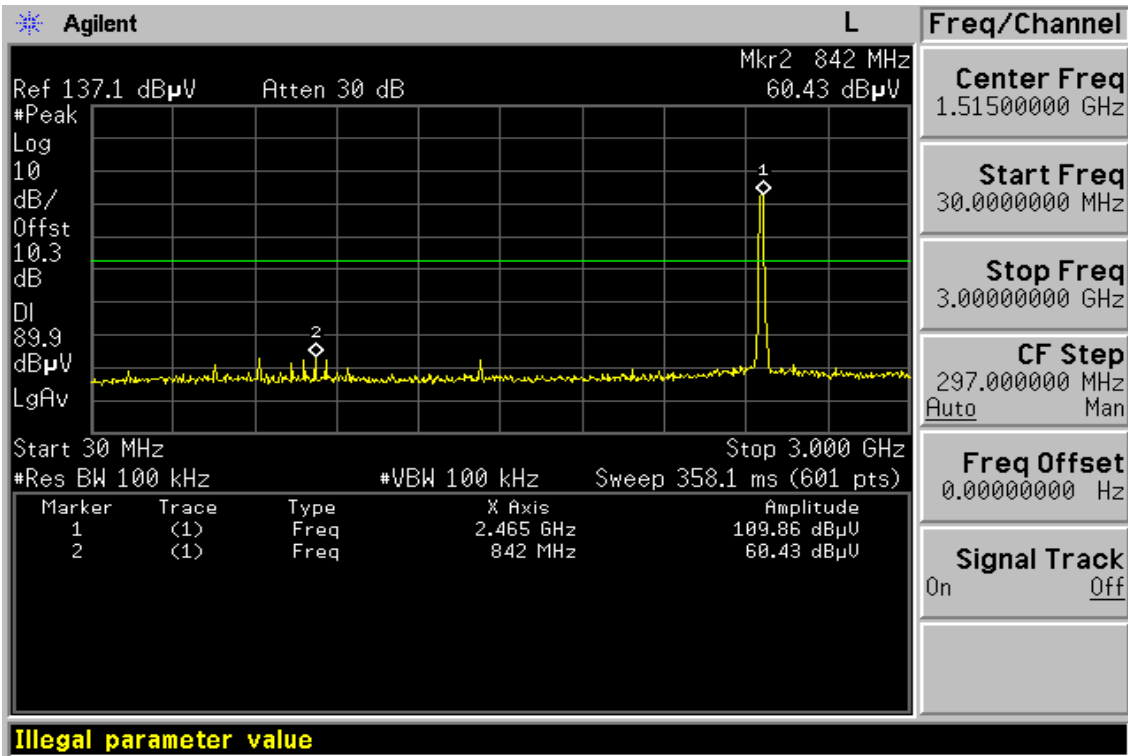


## Ch Mid 3GHz – 26.5GHz

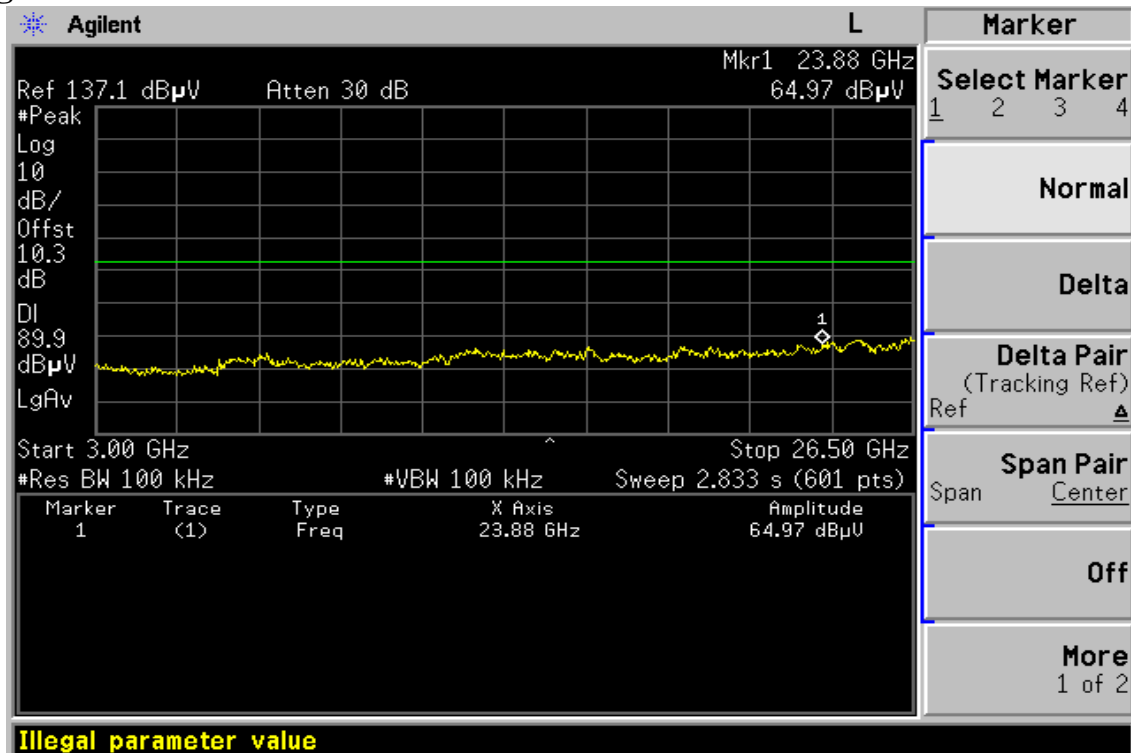


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## Ch High 30MHz – 3GHz

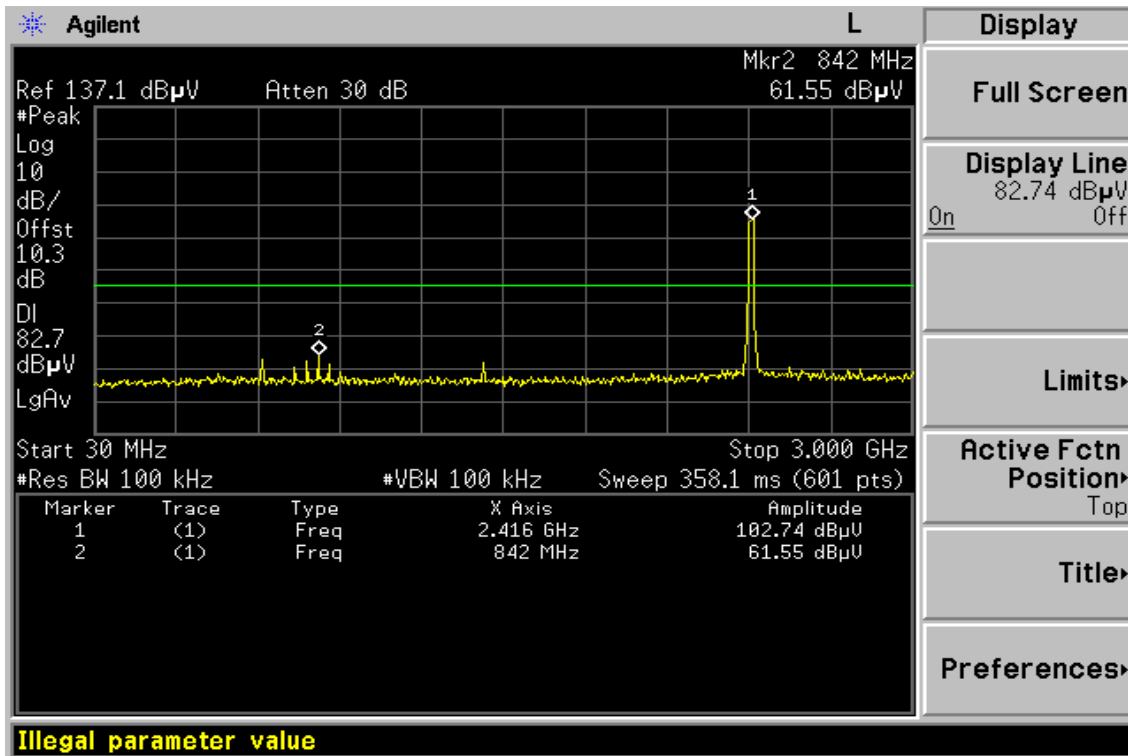


## Ch High 3GHz – 26.5GHz

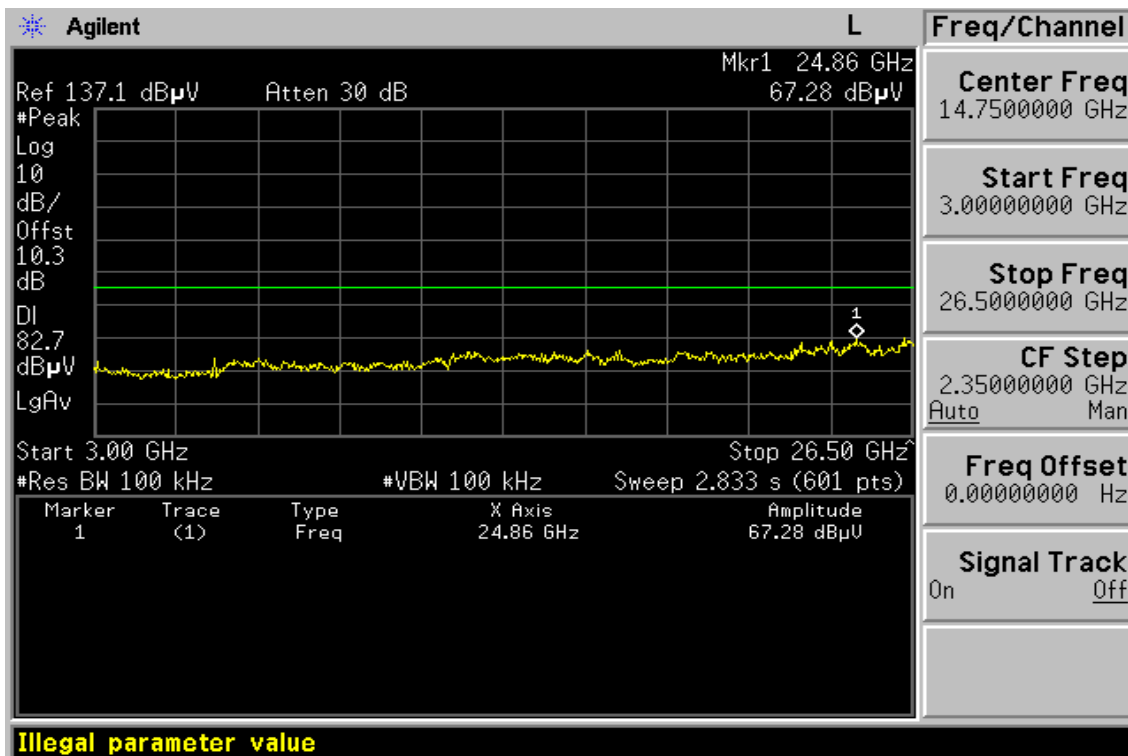


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## Conducted Spurious Emission Measurement Result (802.11g), 6M Ch Low 30MHz – 3GHz

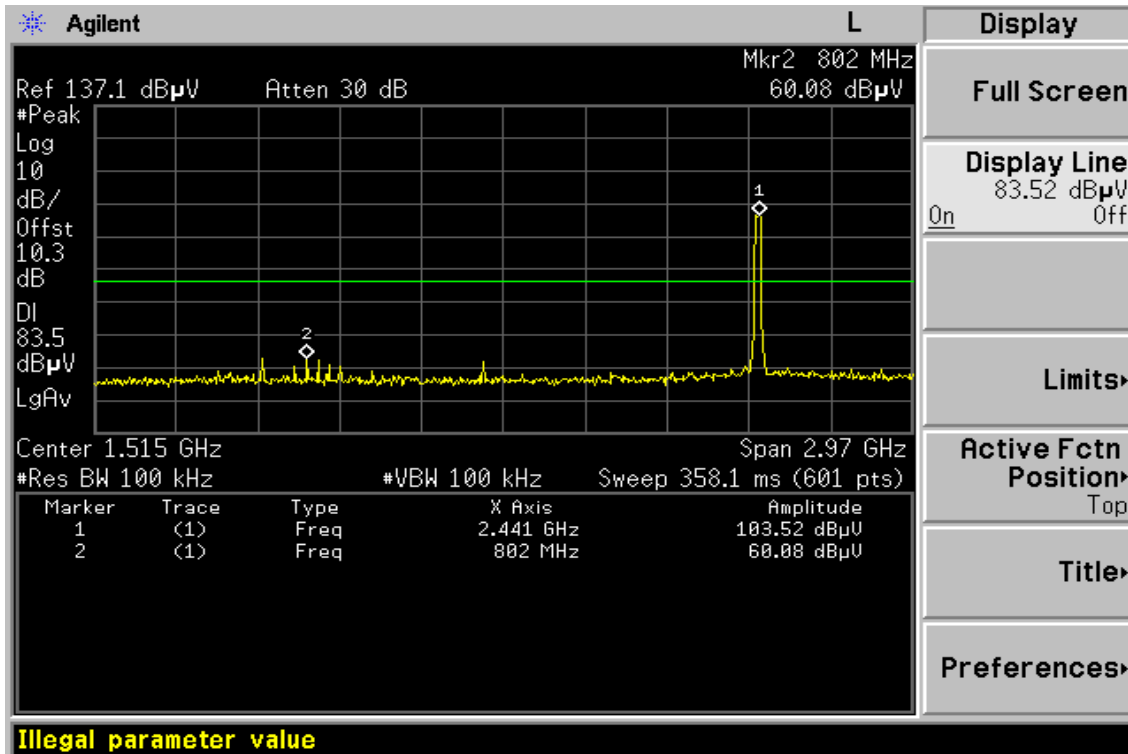


## Ch Low 3GHz – 26.5GHz

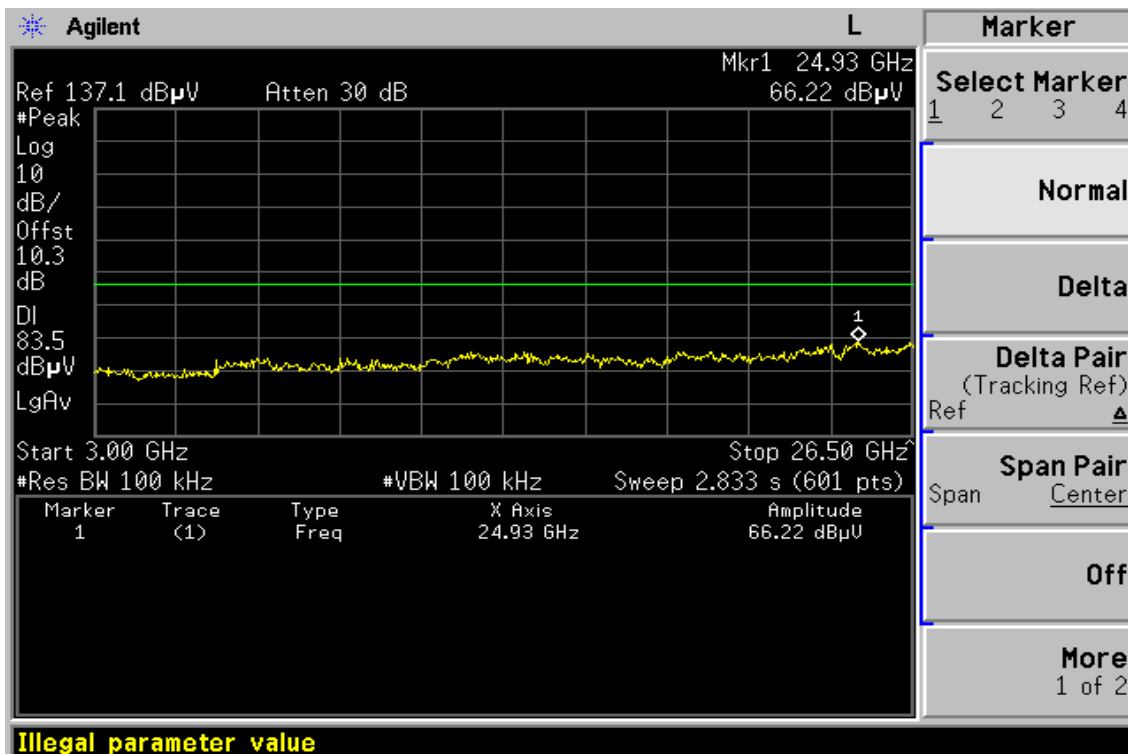


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## Ch Mid 30MHz – 3GHz



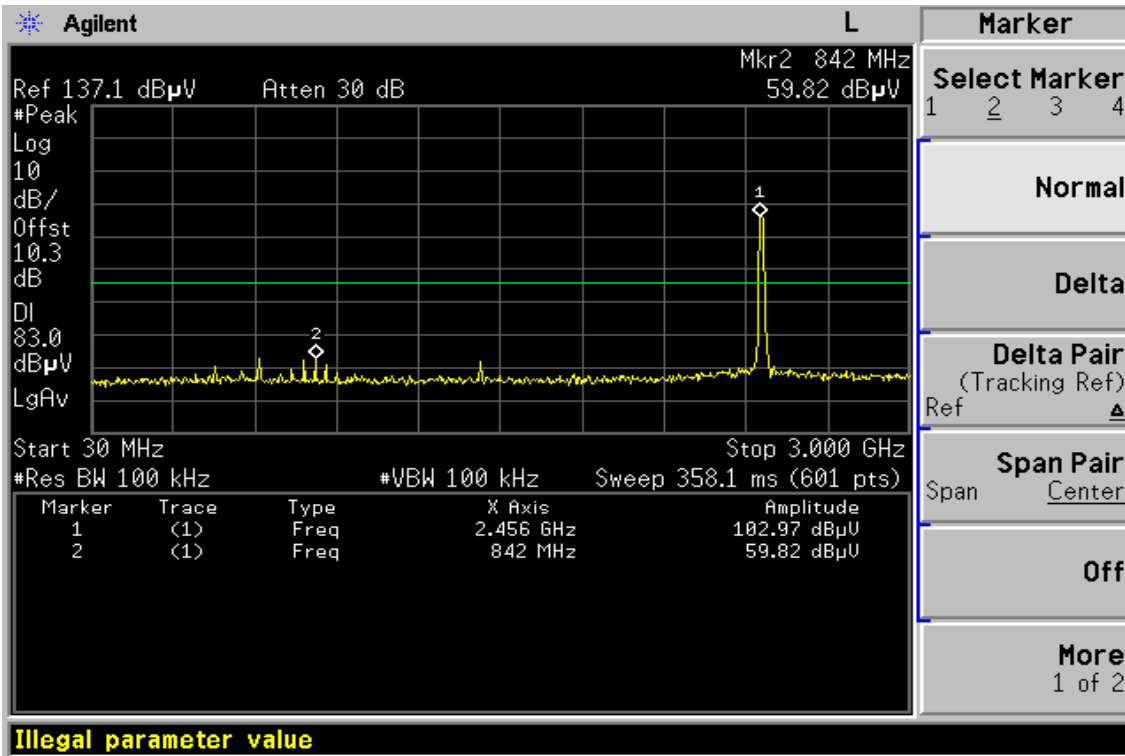
## Ch Mid 3GHz – 26.5GHz



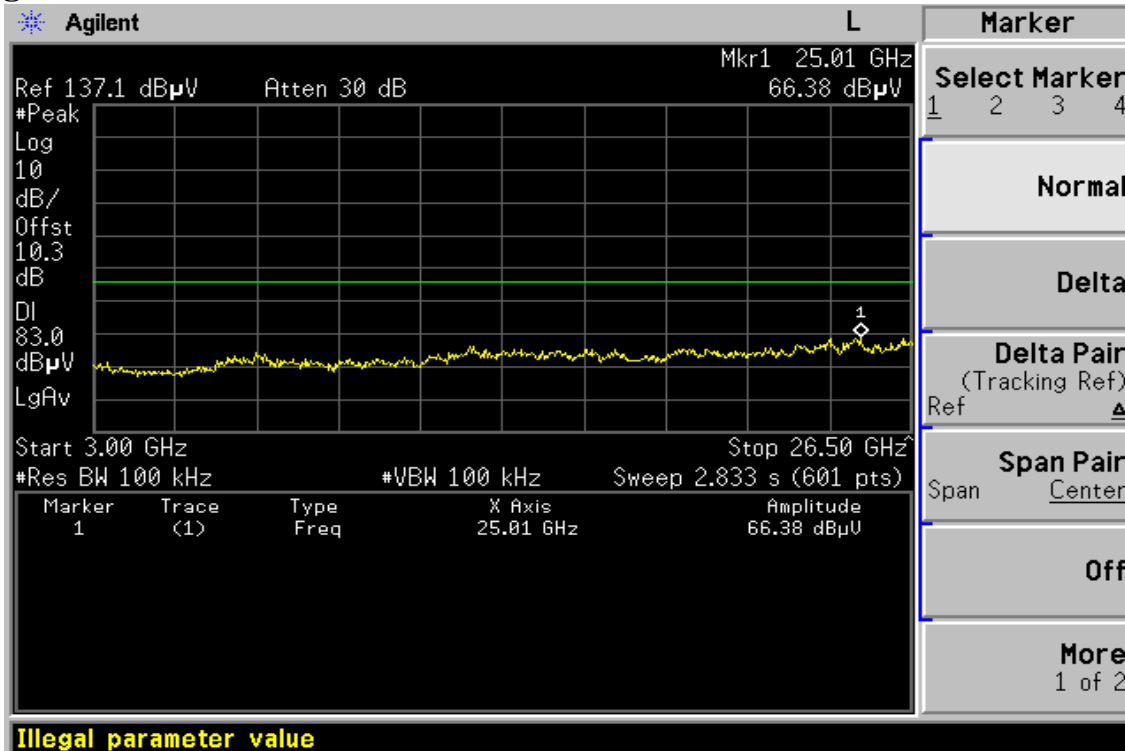
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## Ch High 30MHz – 3GHz

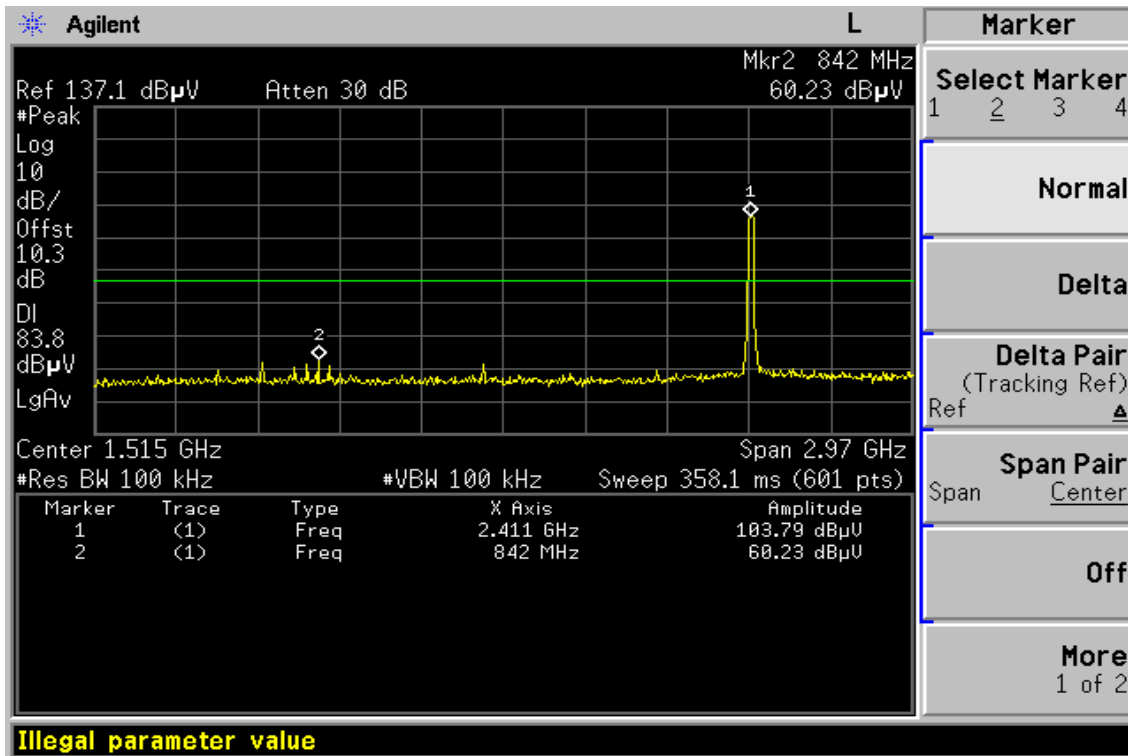


## Ch High 3GHz – 26.5GHz

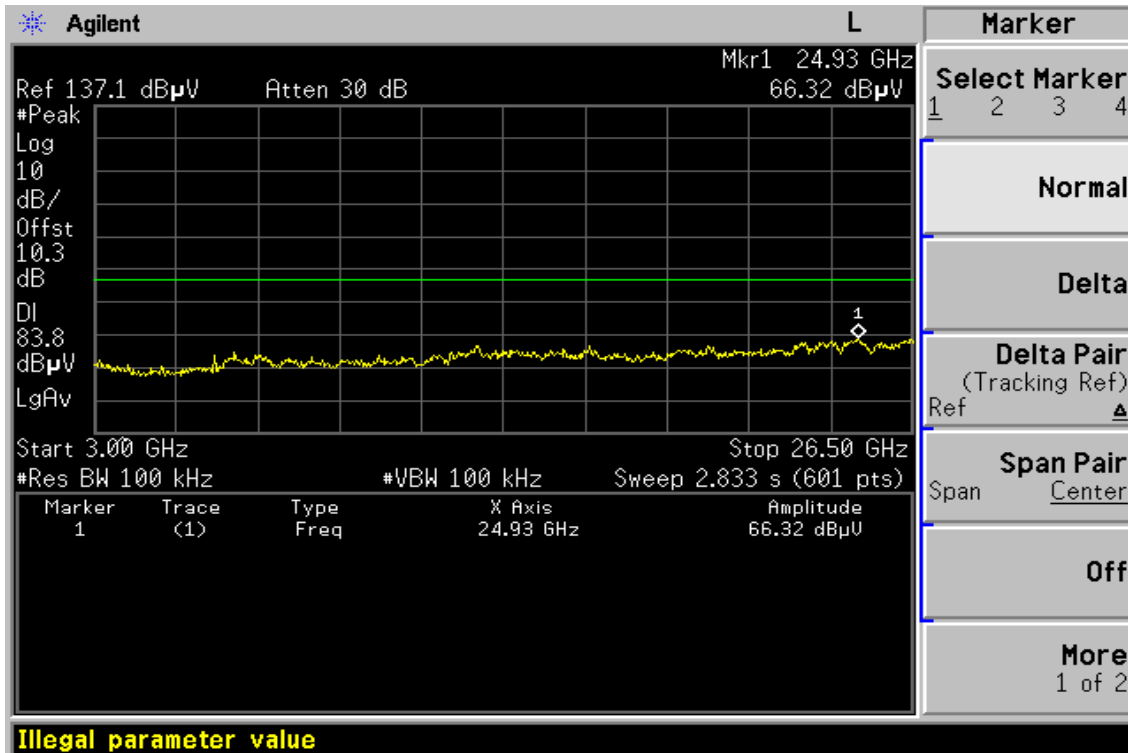


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## Conducted Spurious Emission Measurement Result (802.11n\_20M) 6.5M Ch Low 30MHz – 3GHz

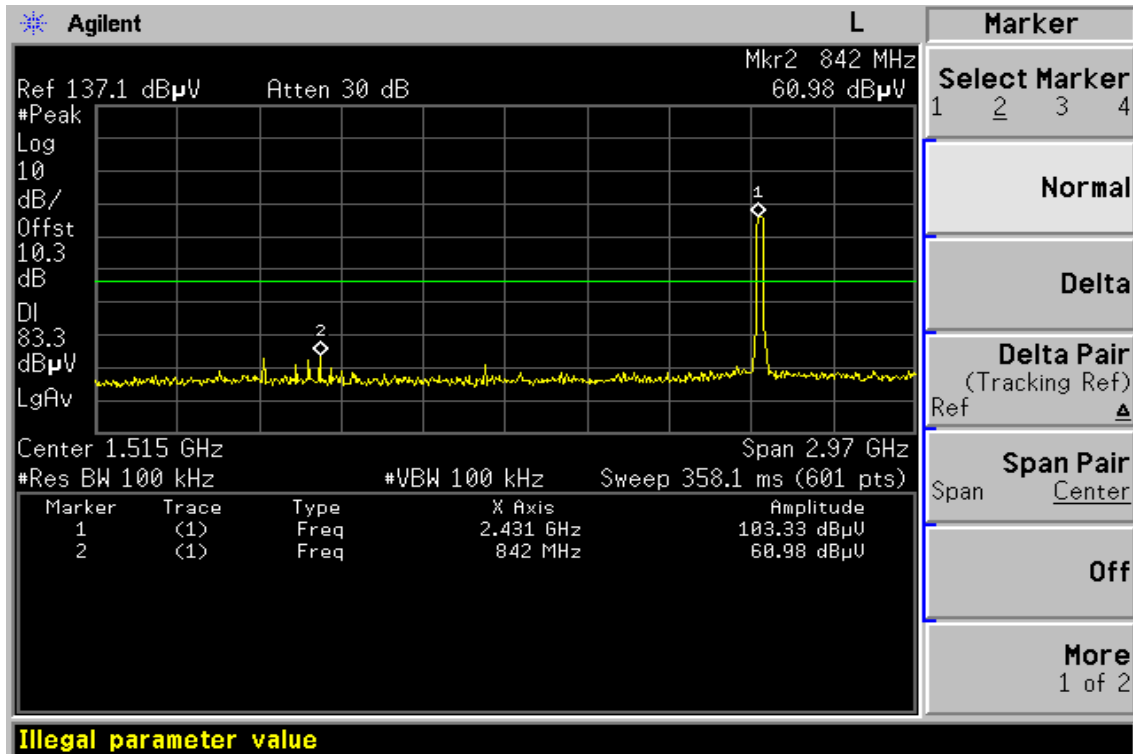


## Ch Low 3GHz – 26.5GHz

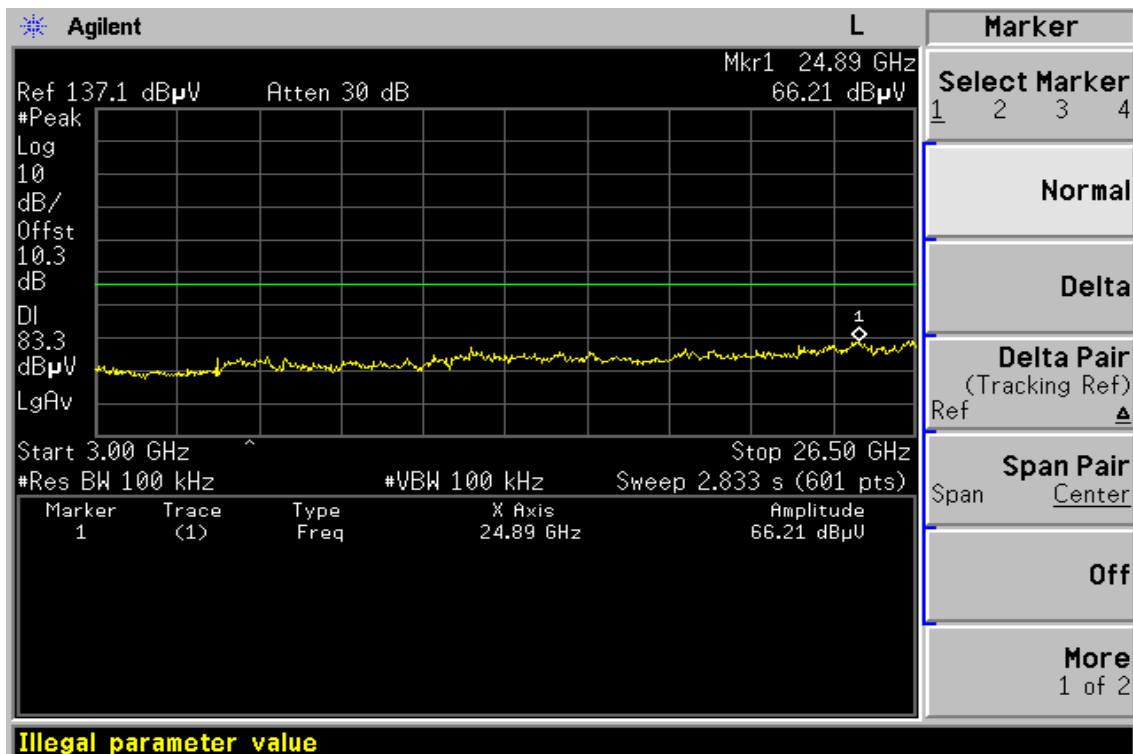


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## Ch Mid 30MHz – 3GHz

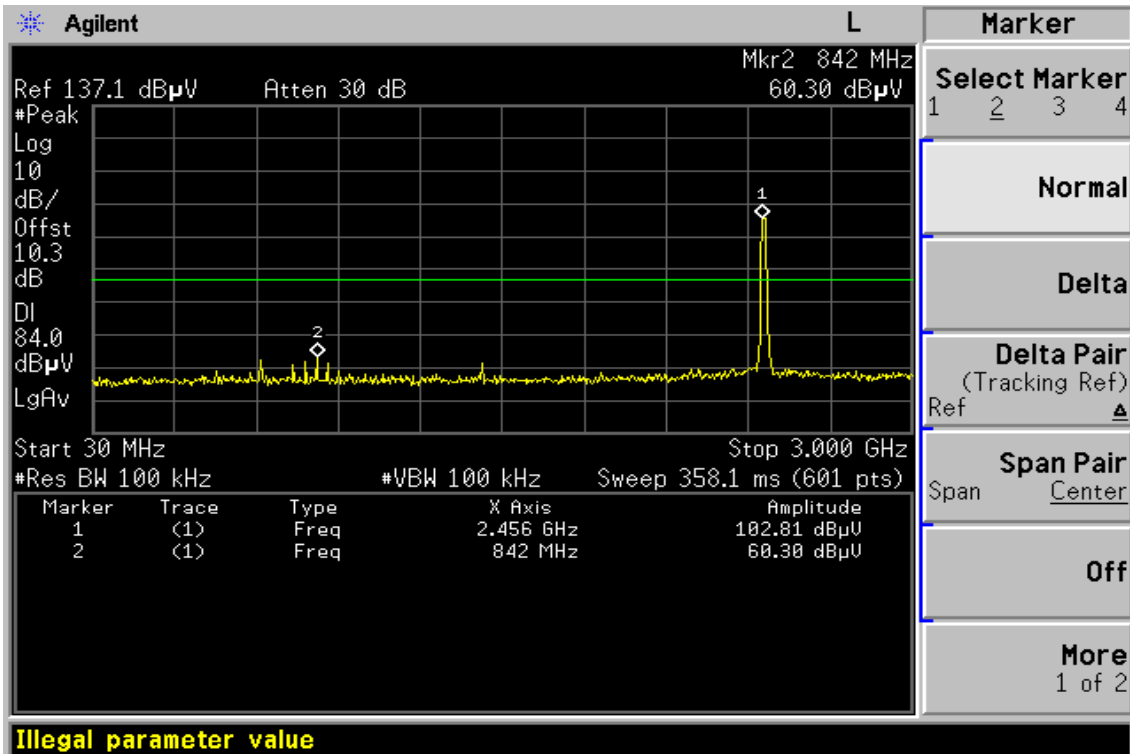


## Ch Mid 3GHz – 26.5GHz

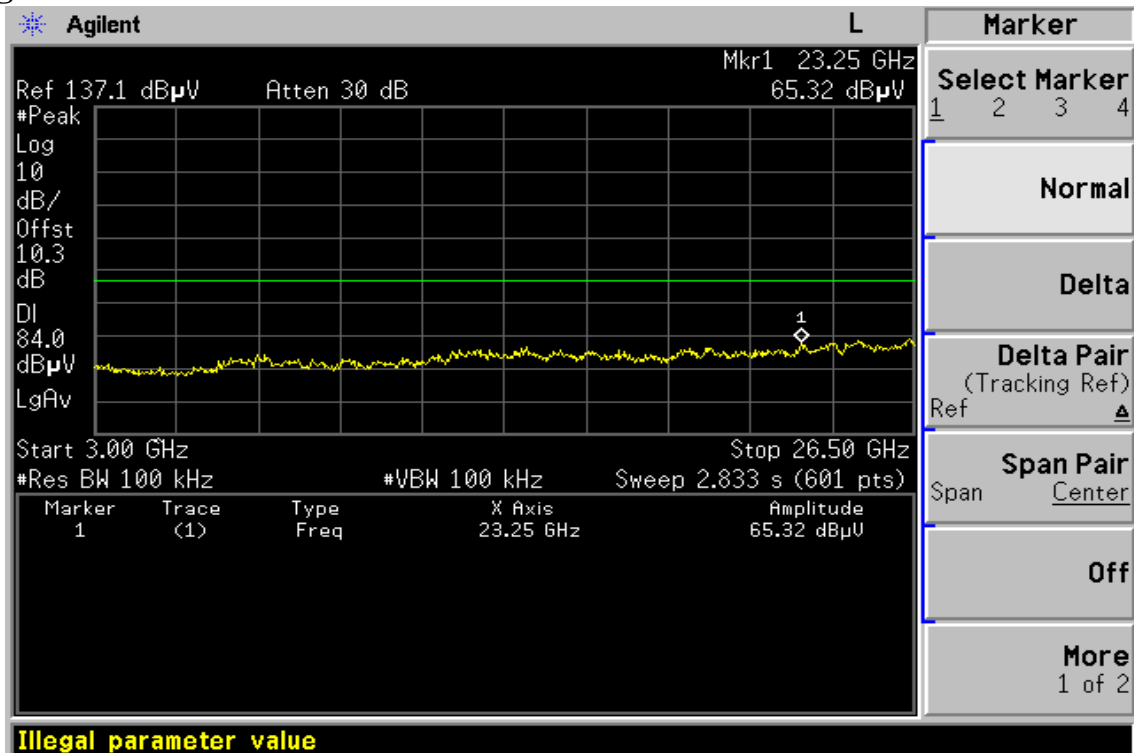


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## Ch High 30MHz – 3GHz

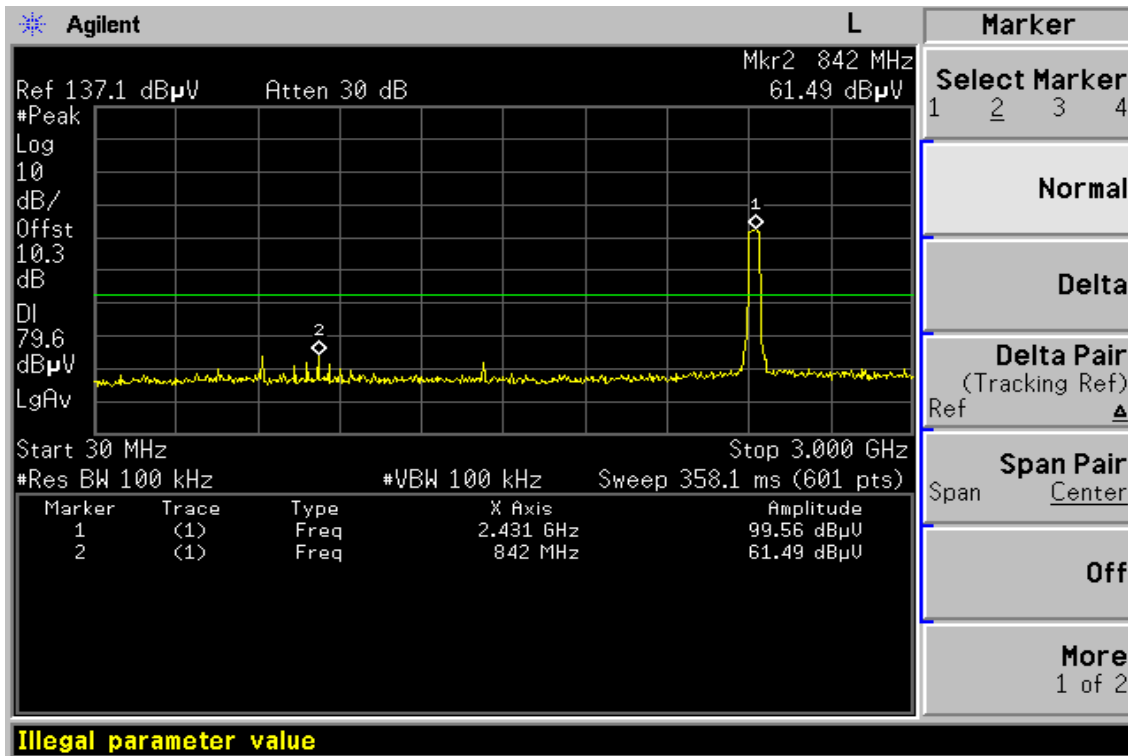


## Ch High 3GHz – 26.5GHz

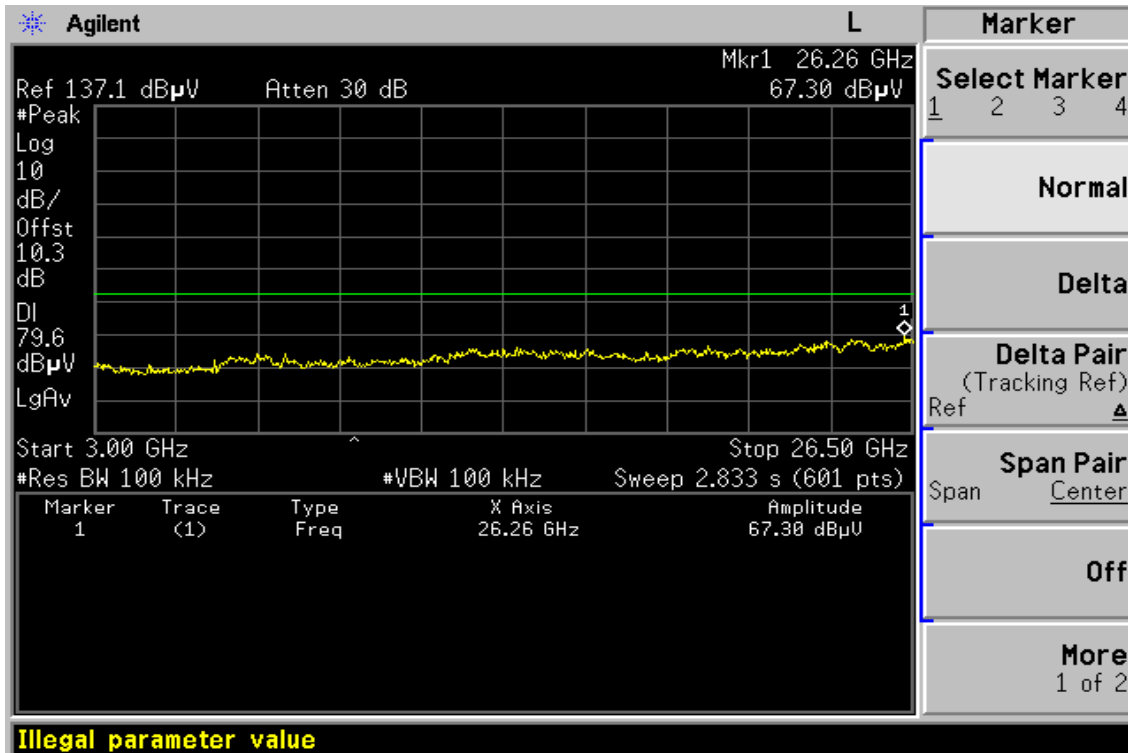


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## Conducted Spurious Emission Measurement Result (802.11n\_40M) 6.5M Ch Low 30MHz – 3GHz

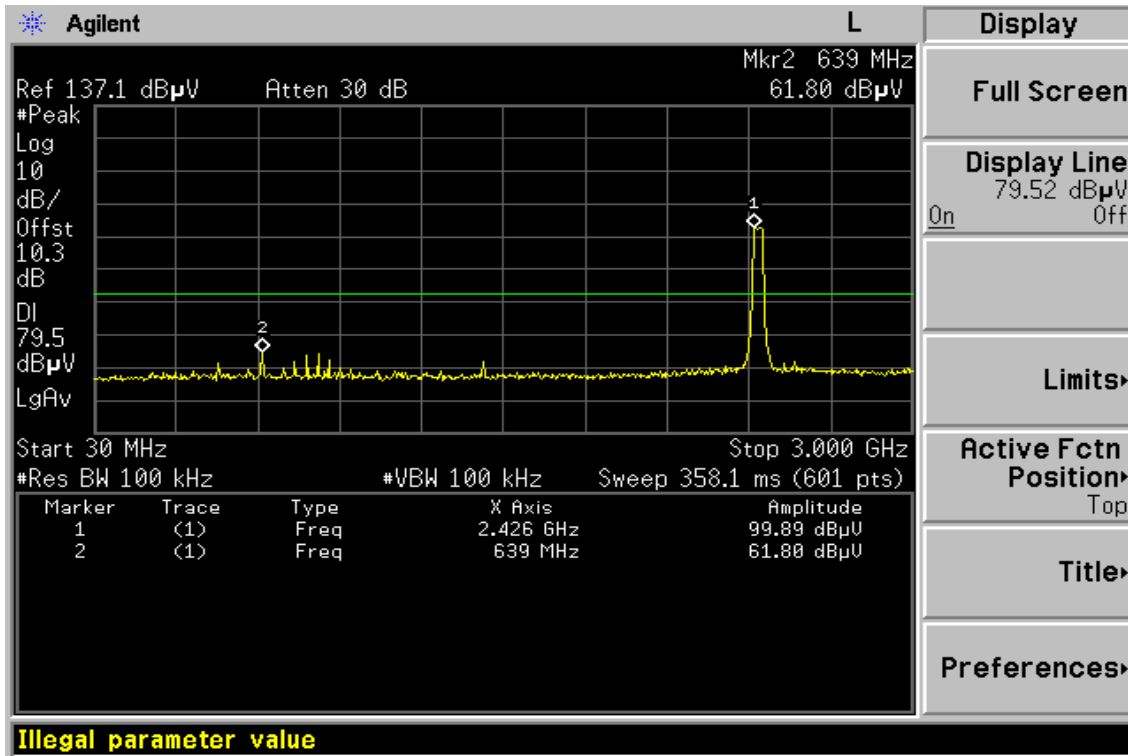


## Ch Low 3GHz – 26.5GHz

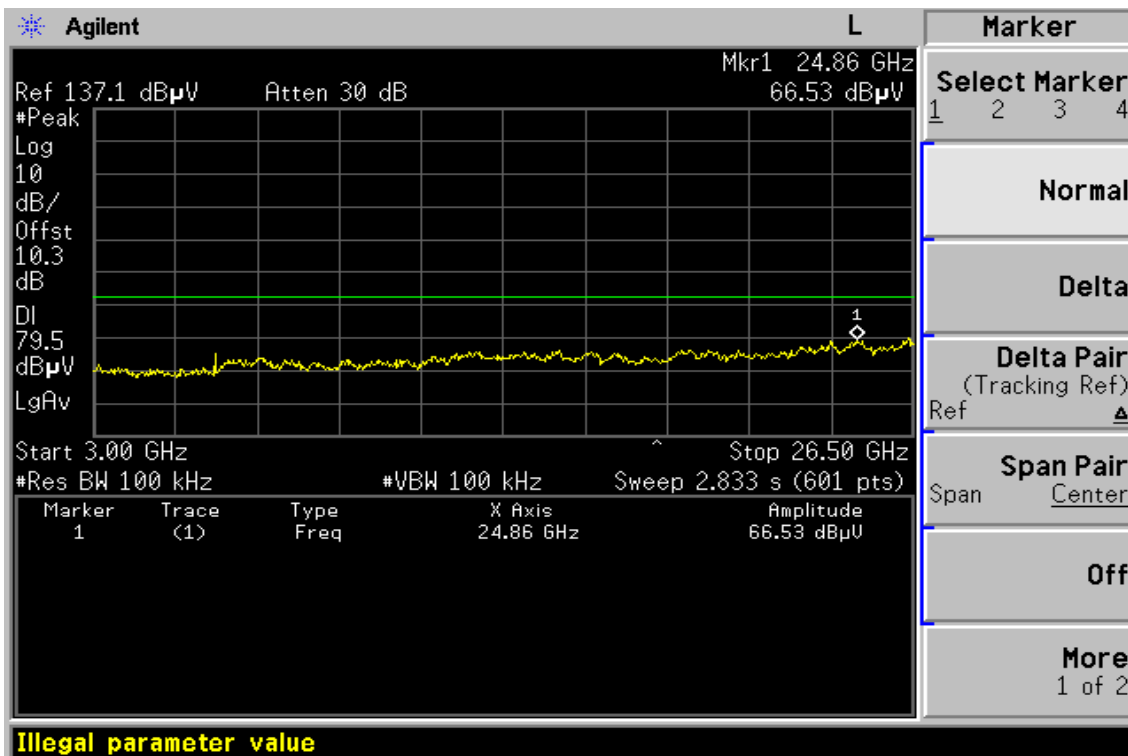


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## Ch Mid 30MHz – 3GHz

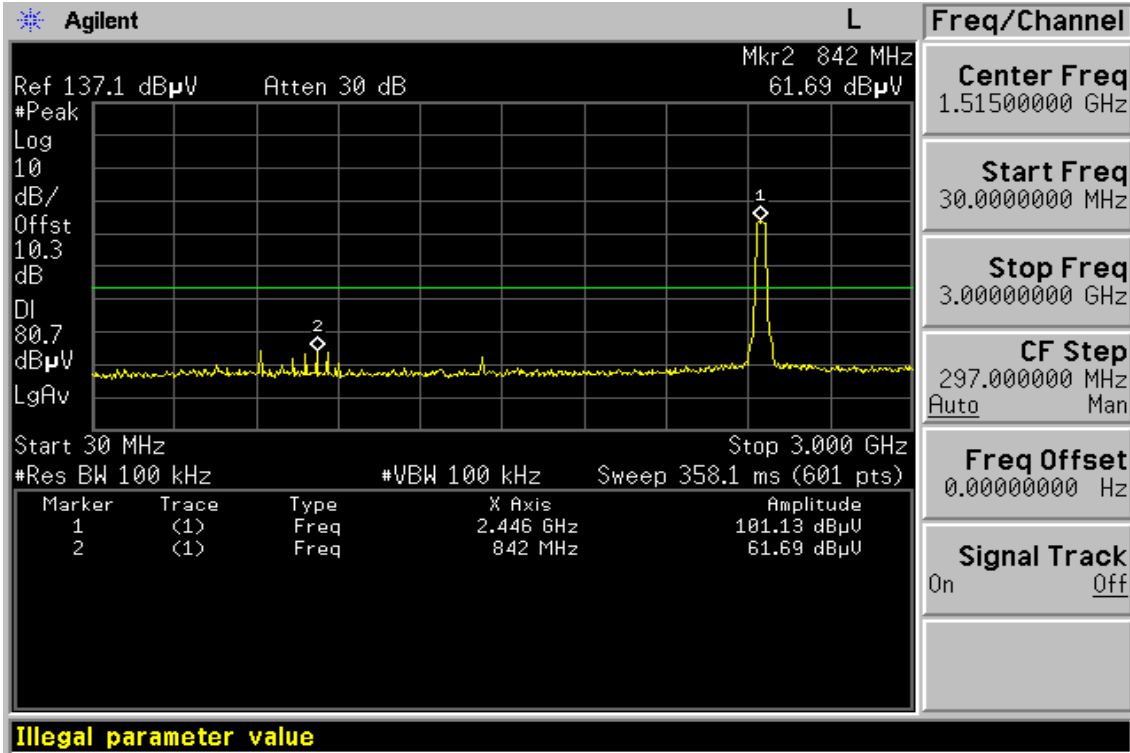


## Ch Mid 3GHz – 26.5GHz

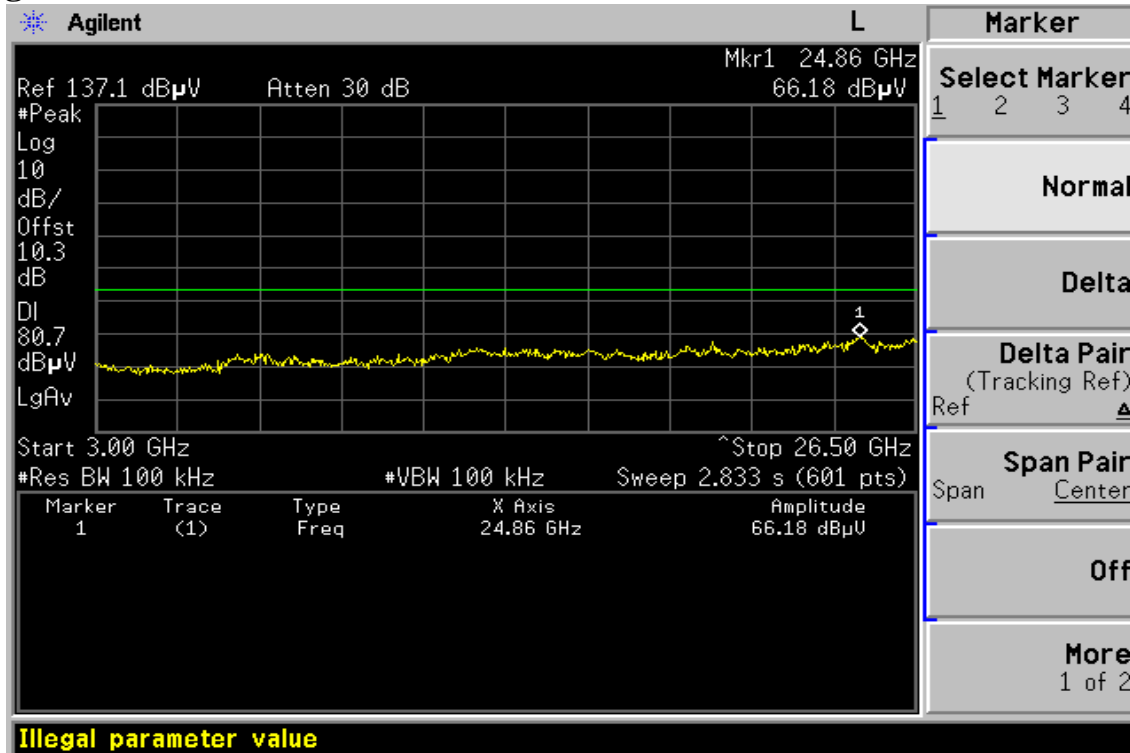


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## Ch High 30MHz – 3GHz

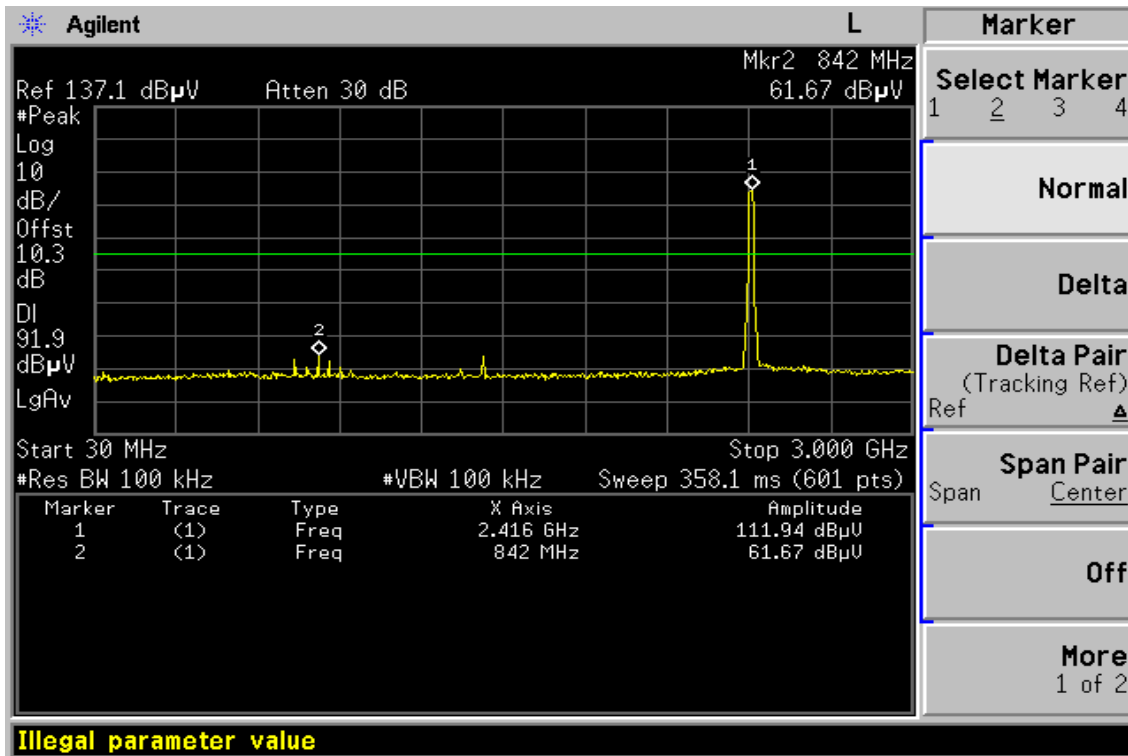


## Ch High 3GHz – 26.5GHz

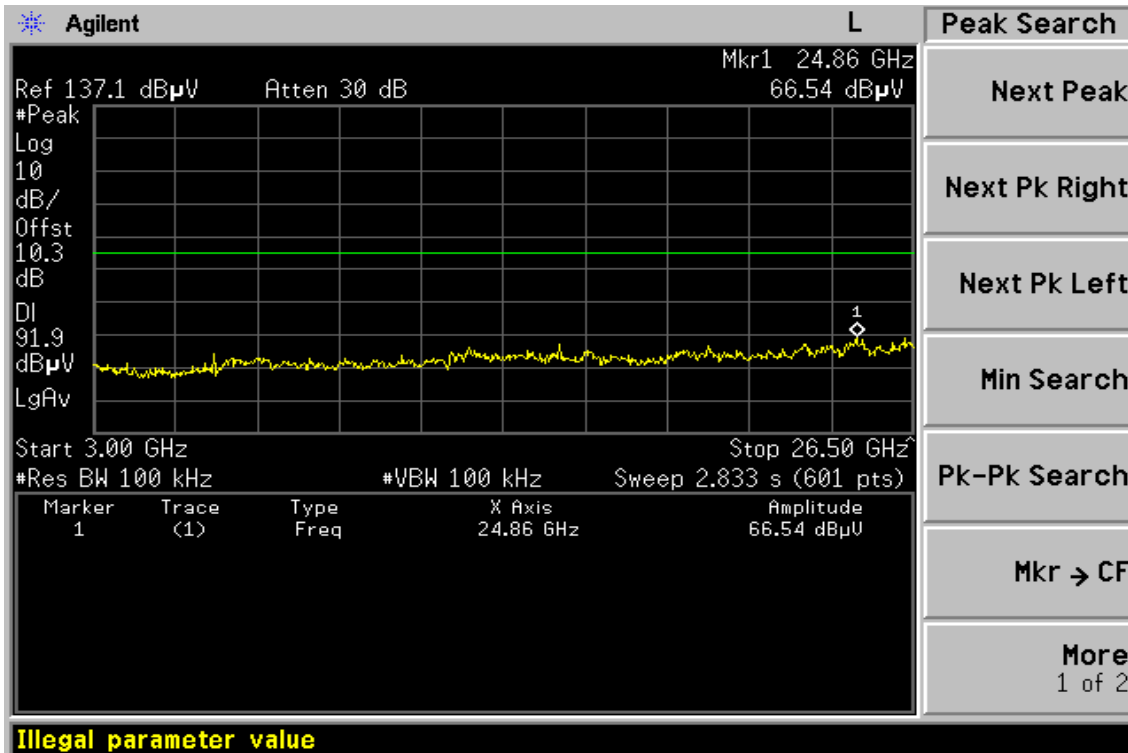


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### Conducted Spurious Emission Measurement Result (802.11b) 11M Ch Low 30MHz – 3GHz



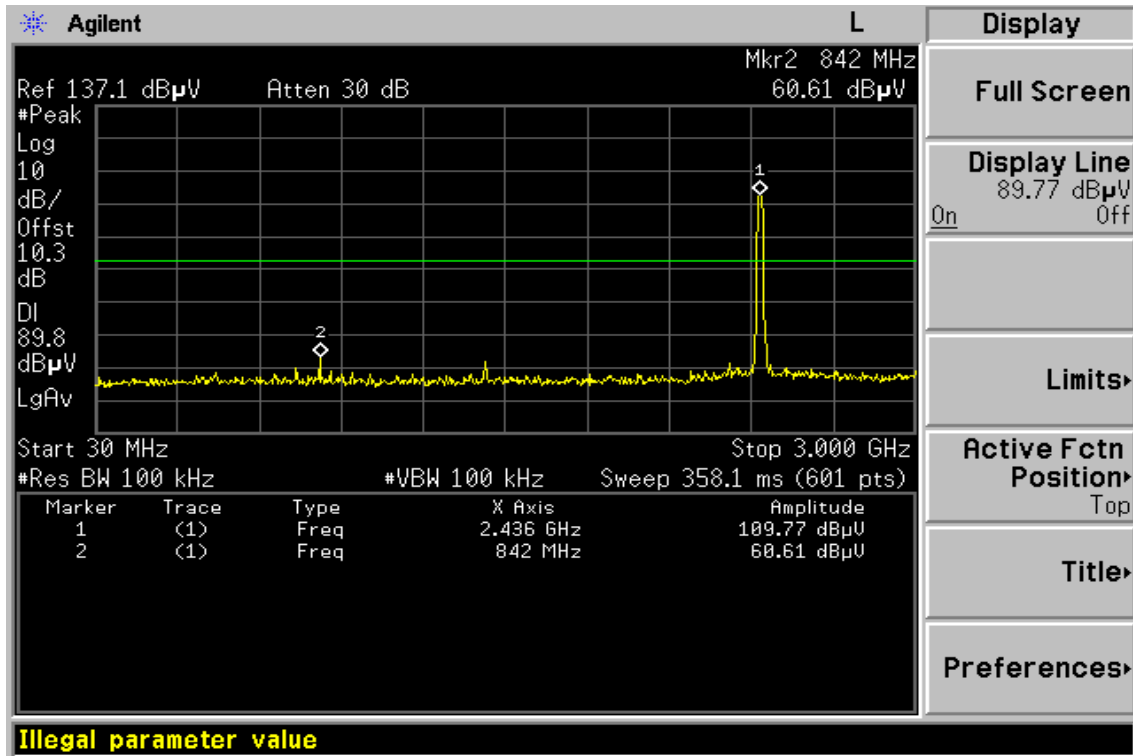
### Ch Low 3GHz – 26.5GHz



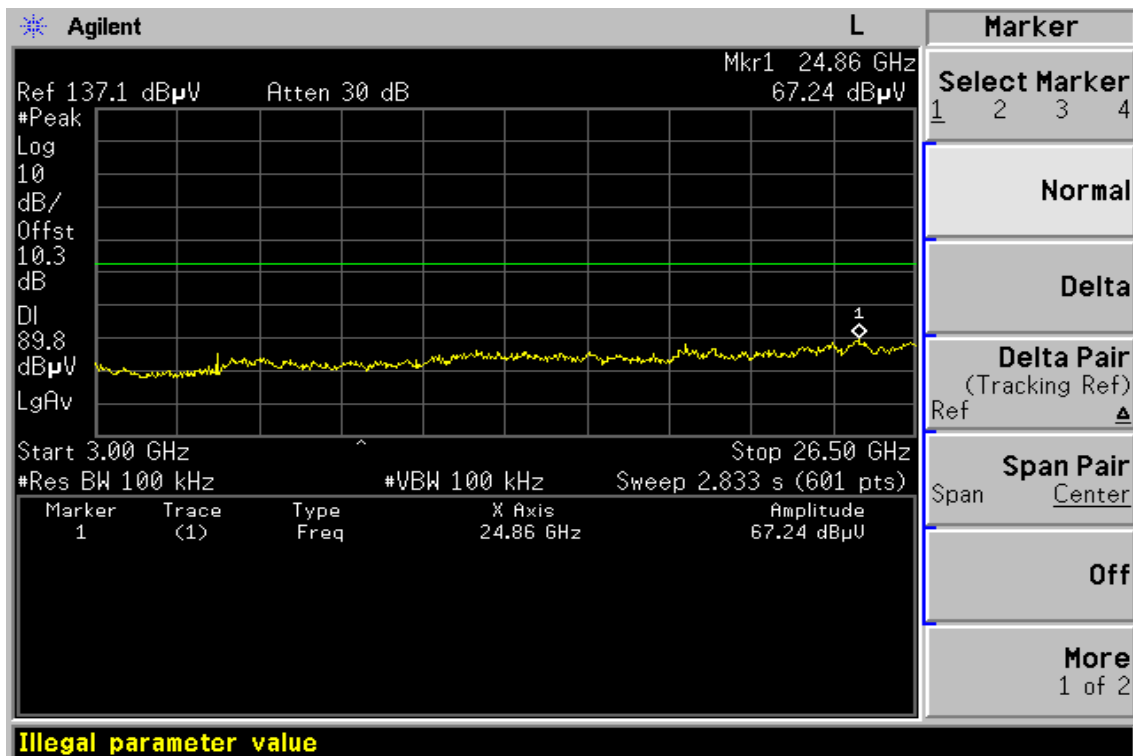
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## Ch Mid 30MHz – 3GHz

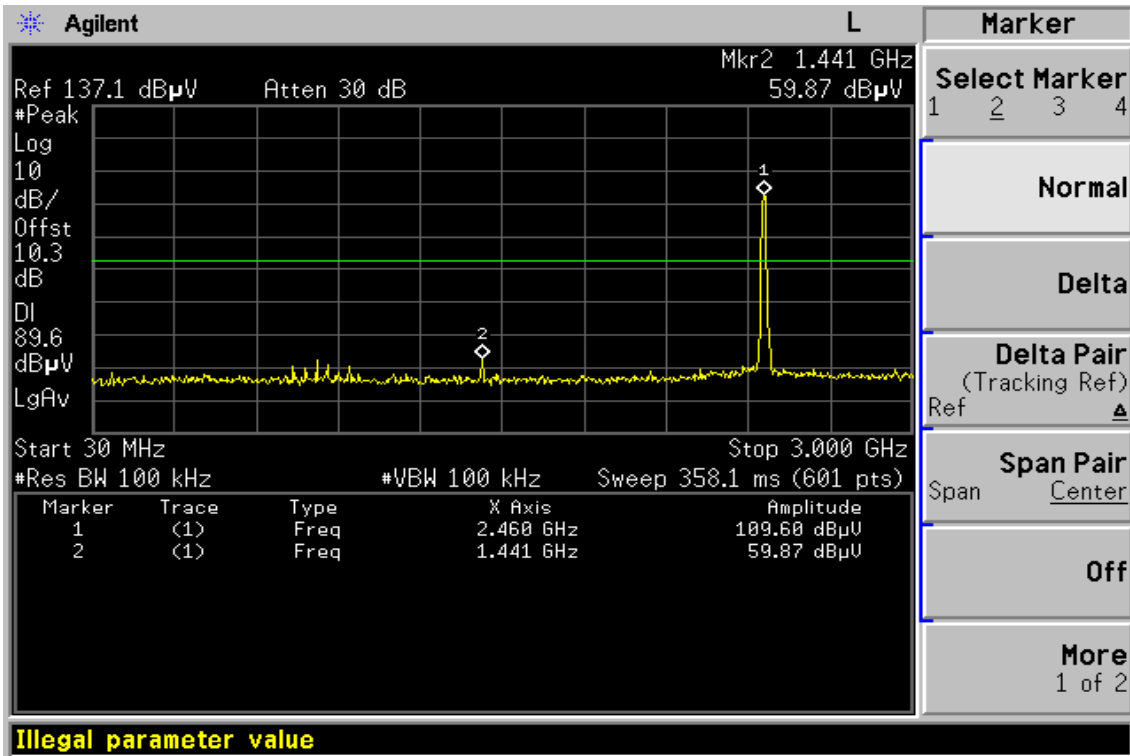


## Ch Mid 3GHz – 26.5GHz

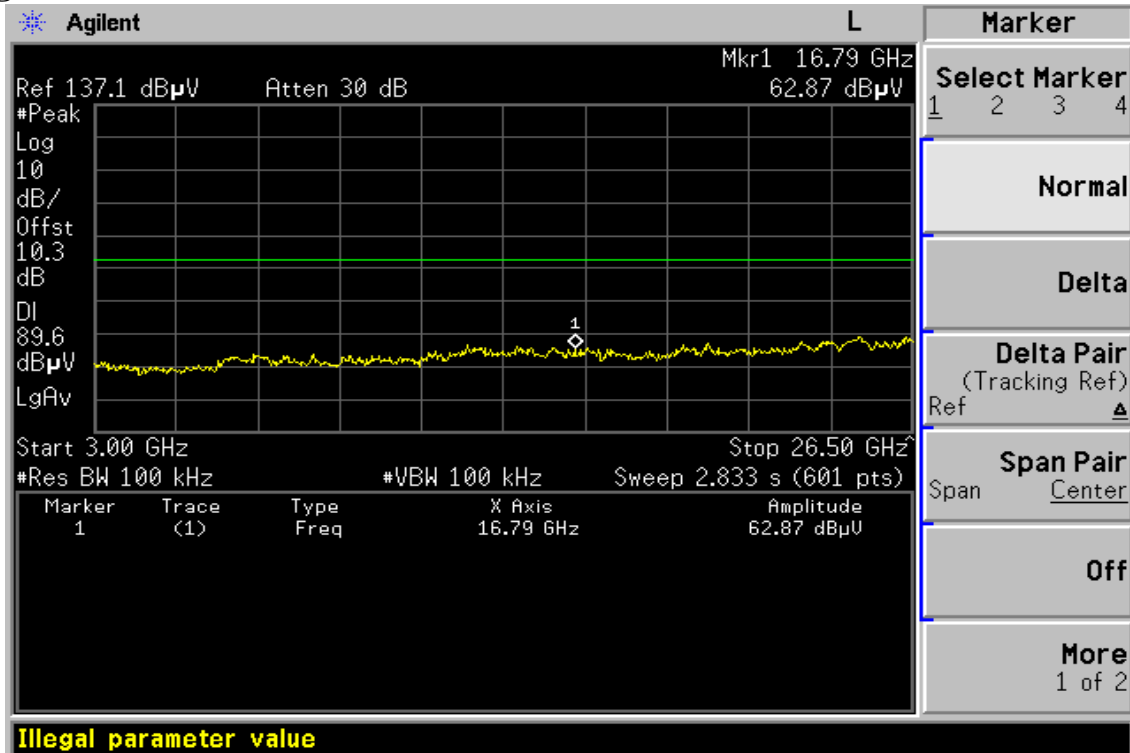


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## Ch High 30MHz – 3GHz

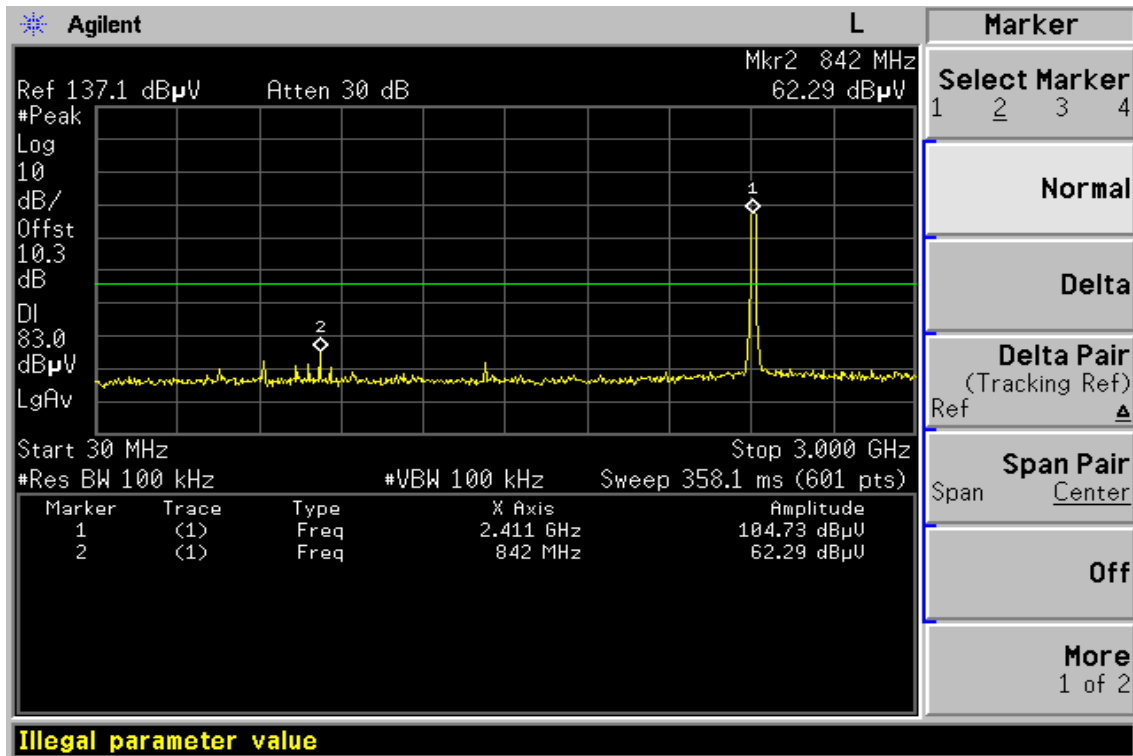


## Ch High 3GHz – 26.5GHz

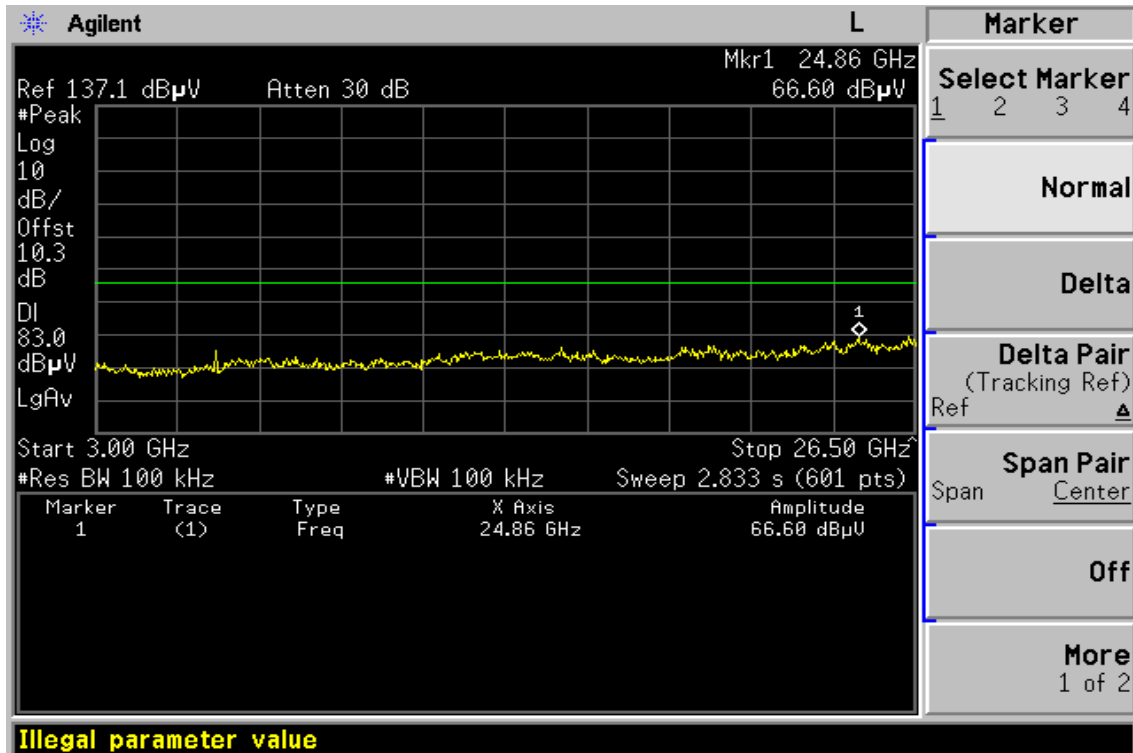


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## Conducted Spurious Emission Measurement Result (802.11g), 54M Ch Low 30MHz – 3GHz

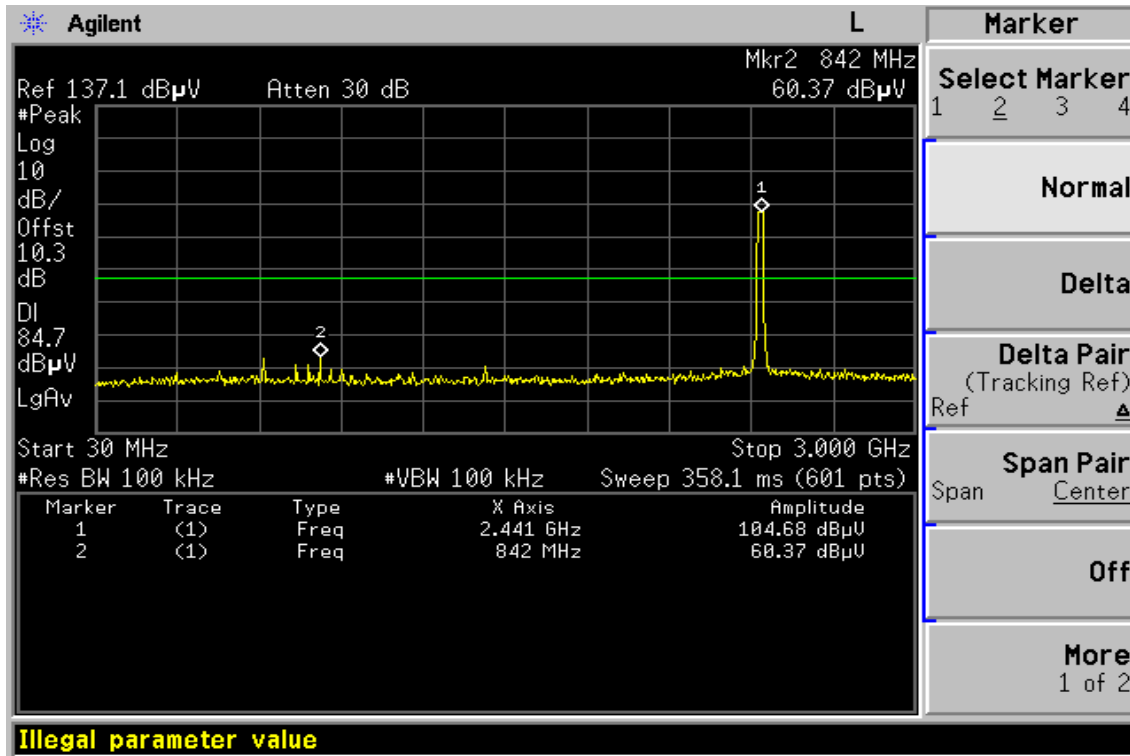


## Ch Low 3GHz – 26.5GHz

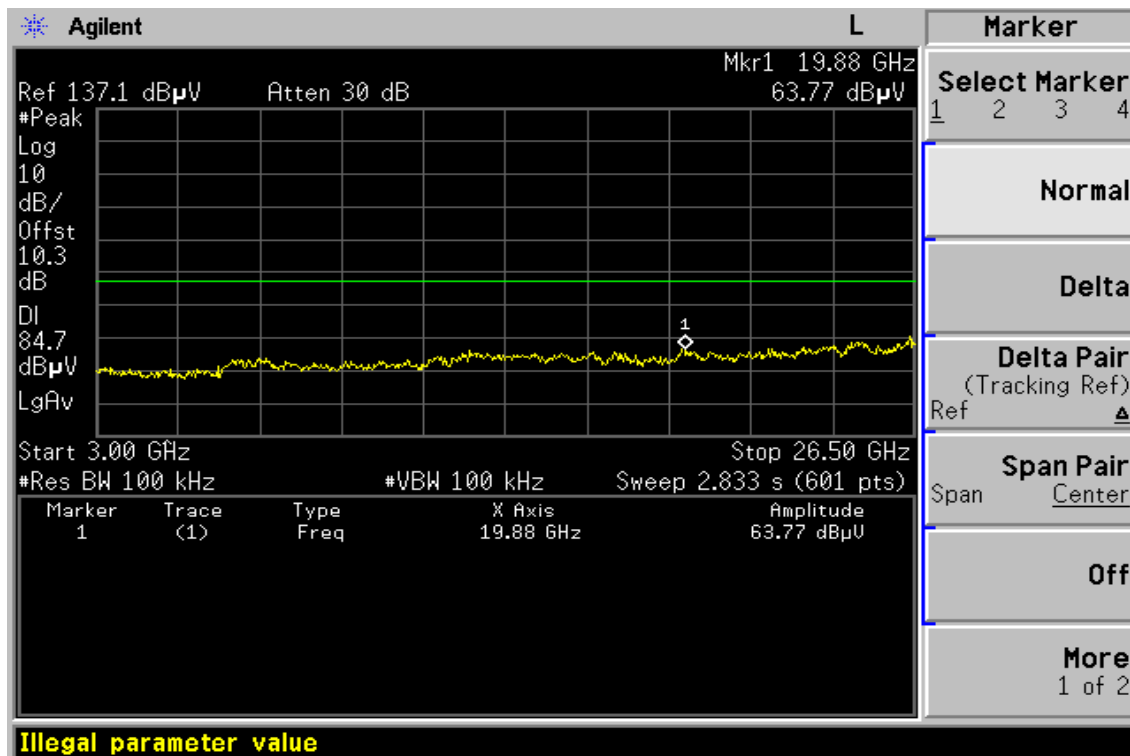


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### Ch Mid 30MHz – 3GHz

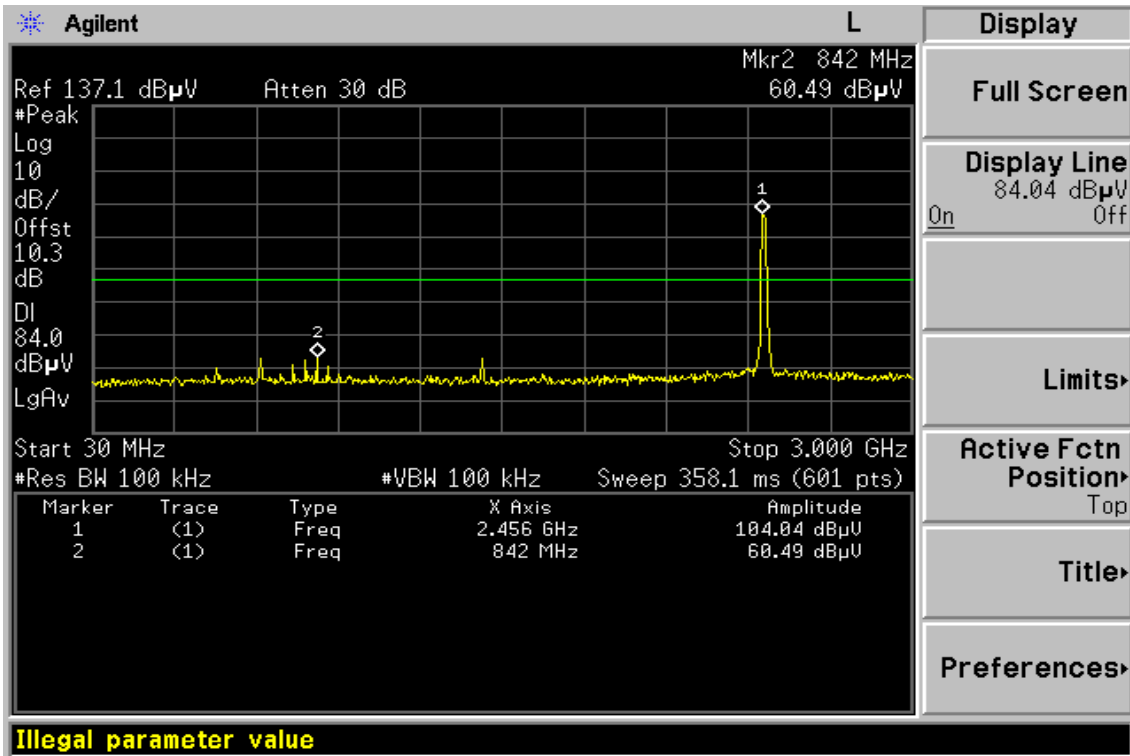


### Ch Mid 3GHz – 26.5GHz

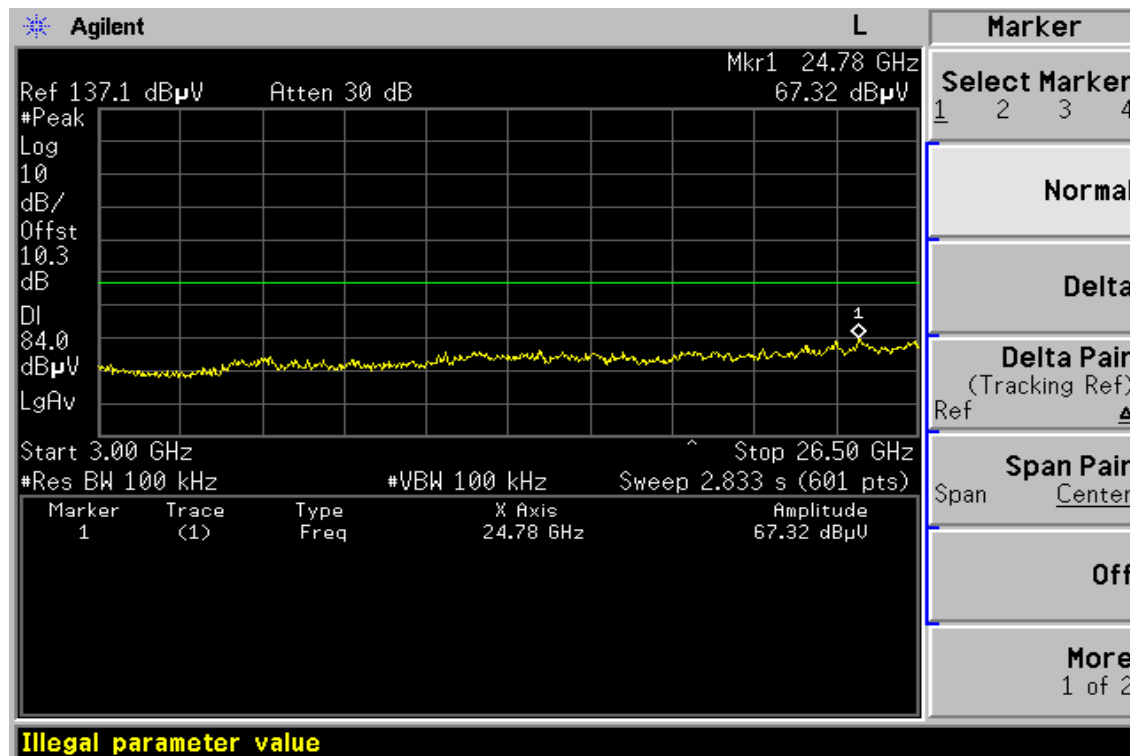


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## Ch High 30MHz – 3GHz

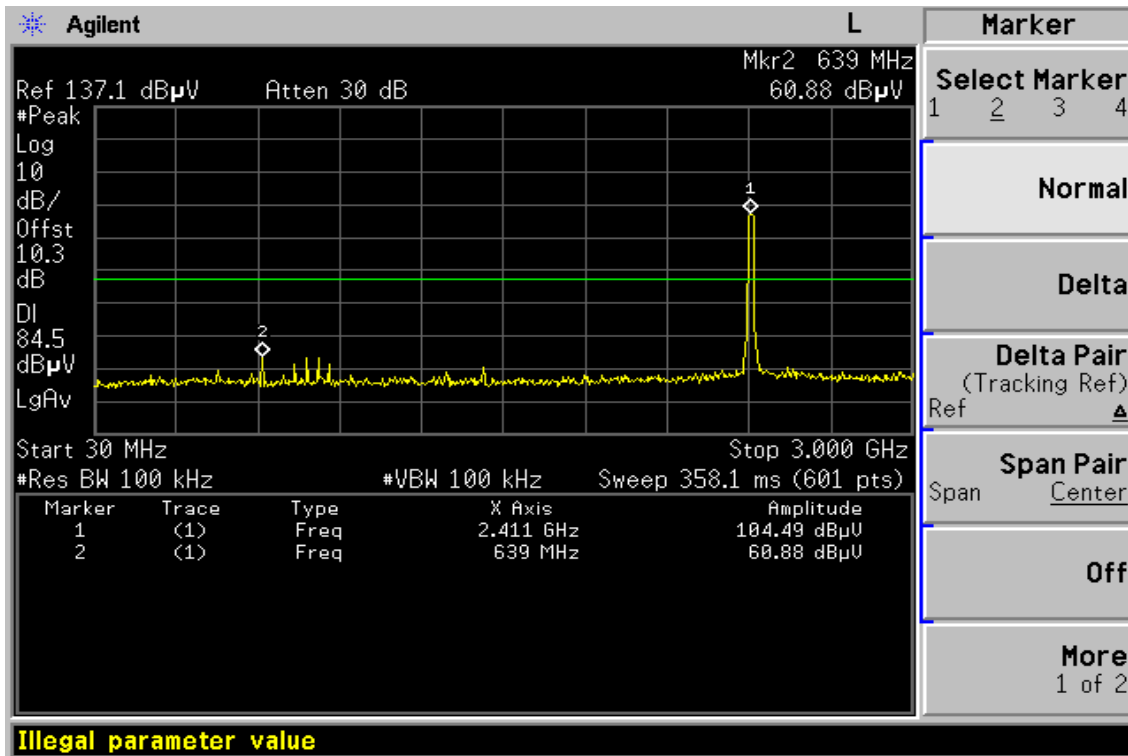


## Ch High 3GHz – 26.5GHz

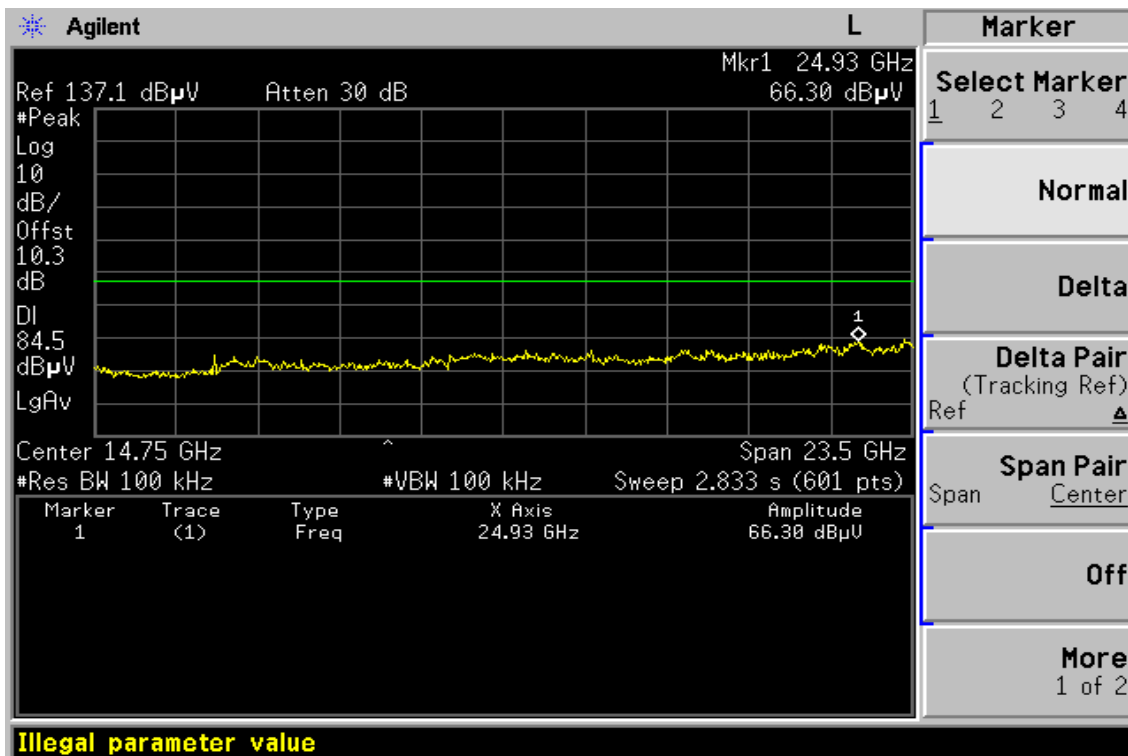


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## Conducted Spurious Emission Measurement Result (802.11n\_20M), 65M Ch Low 30MHz – 3GHz

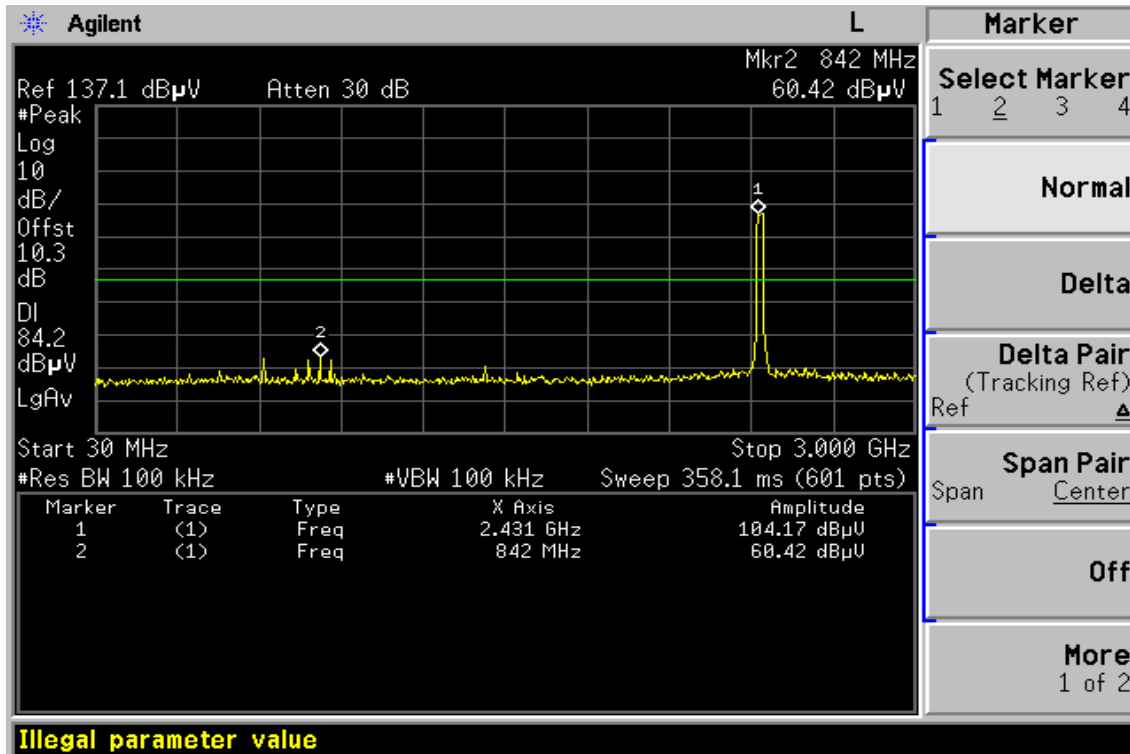


## Ch Low 3GHz – 26.5GHz



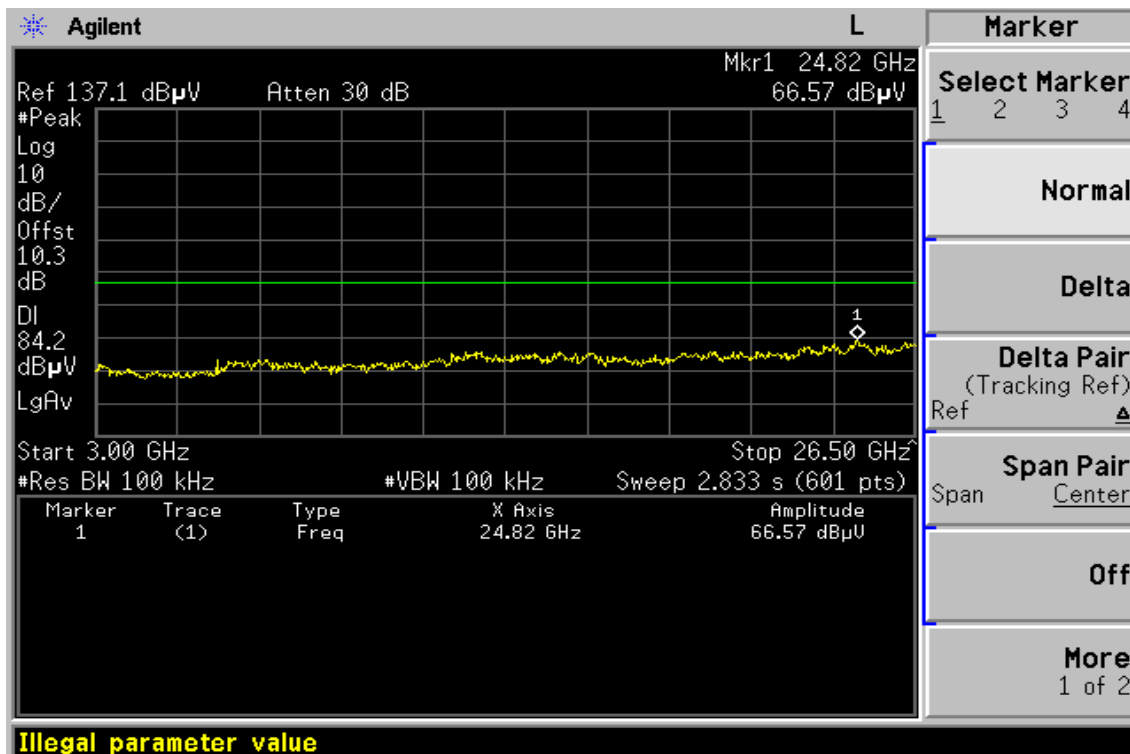
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Ch Mid 30MHz – 3GHz



Illegal parameter value

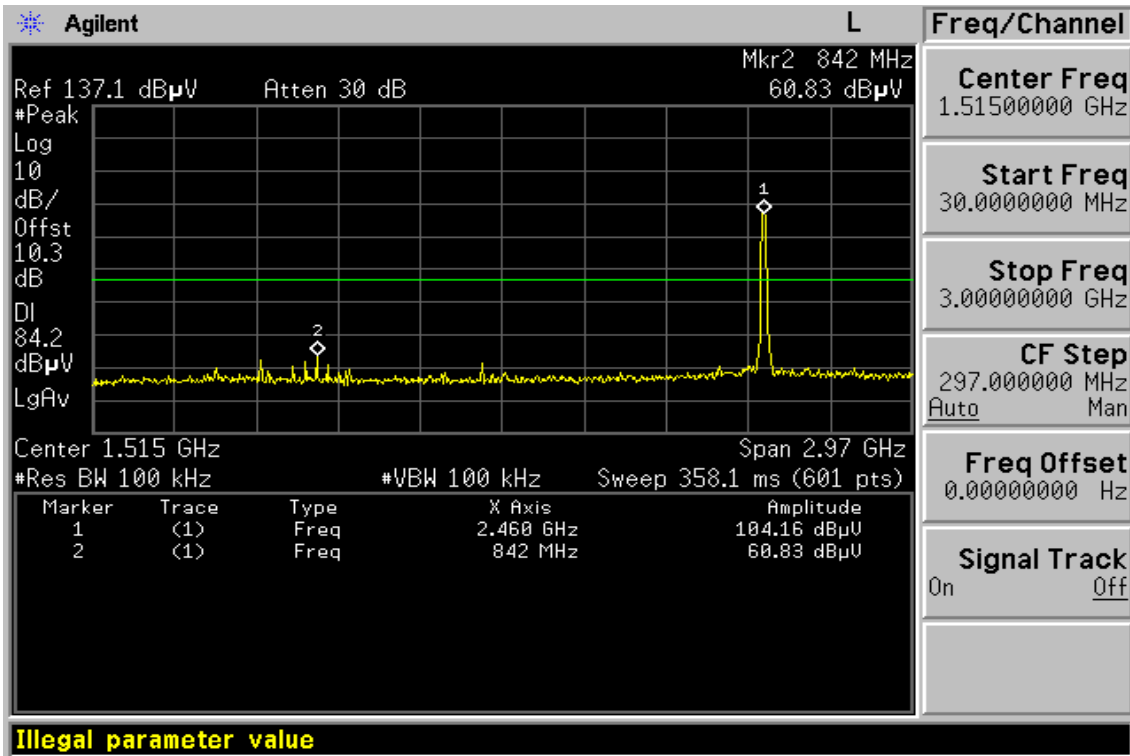
Ch Mid 3GHz – 26.5GHz



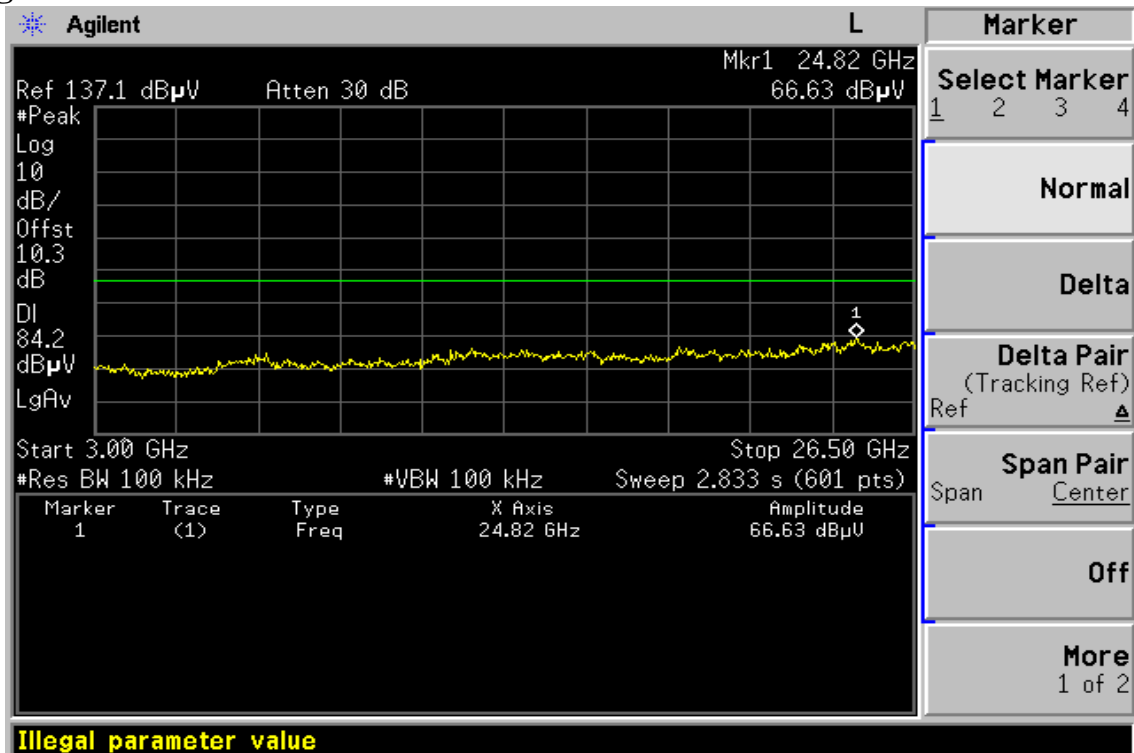
Illegal parameter value

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### Ch High 30MHz – 3GHz



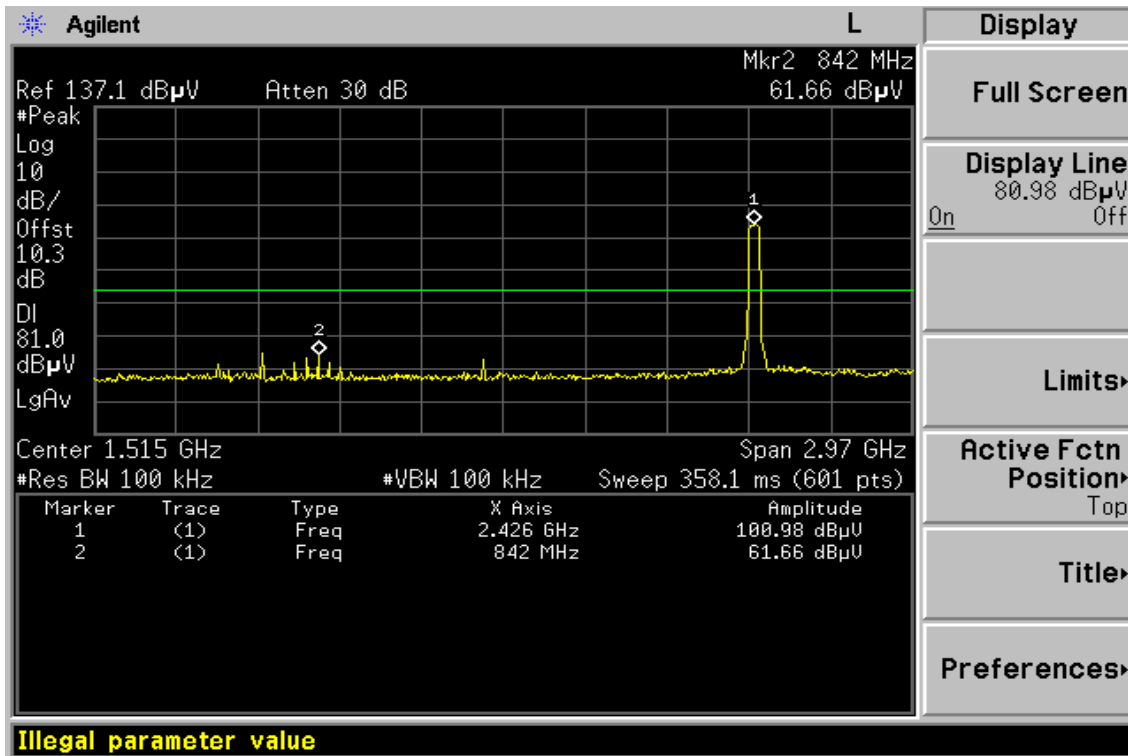
### Ch High 3GHz – 26.5GHz



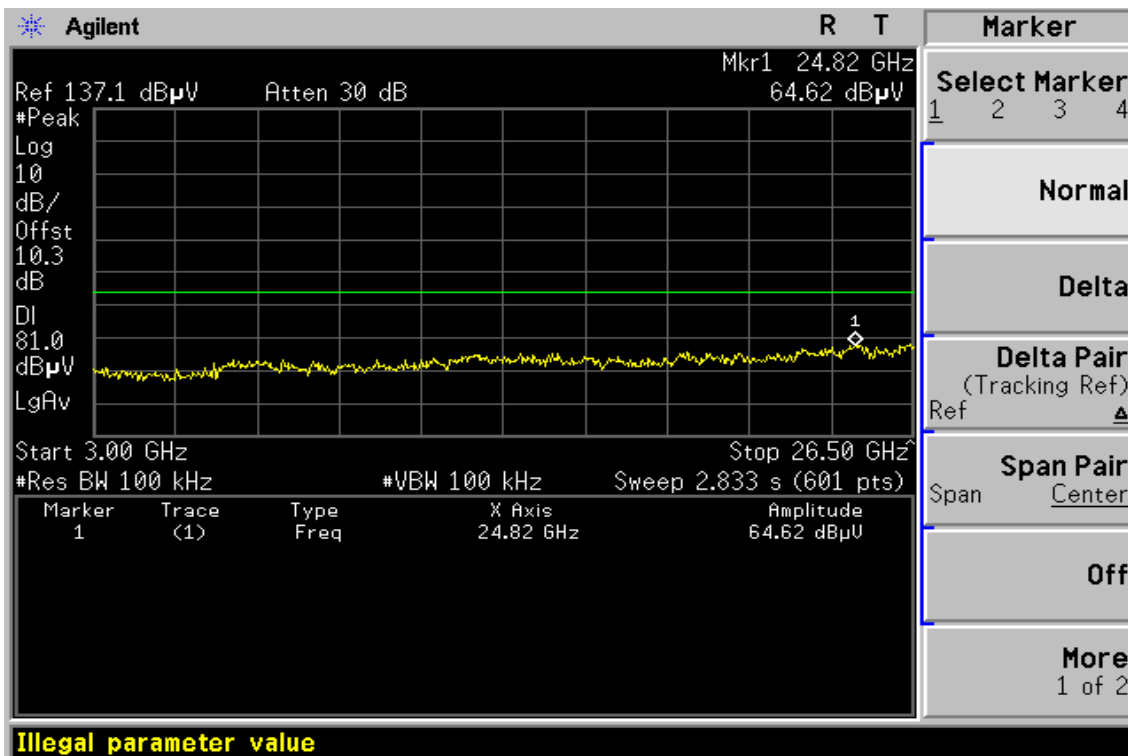
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### Conducted Spurious Emission Measurement Result (802.11n\_40M), 65M Ch Low 30MHz – 3GHz

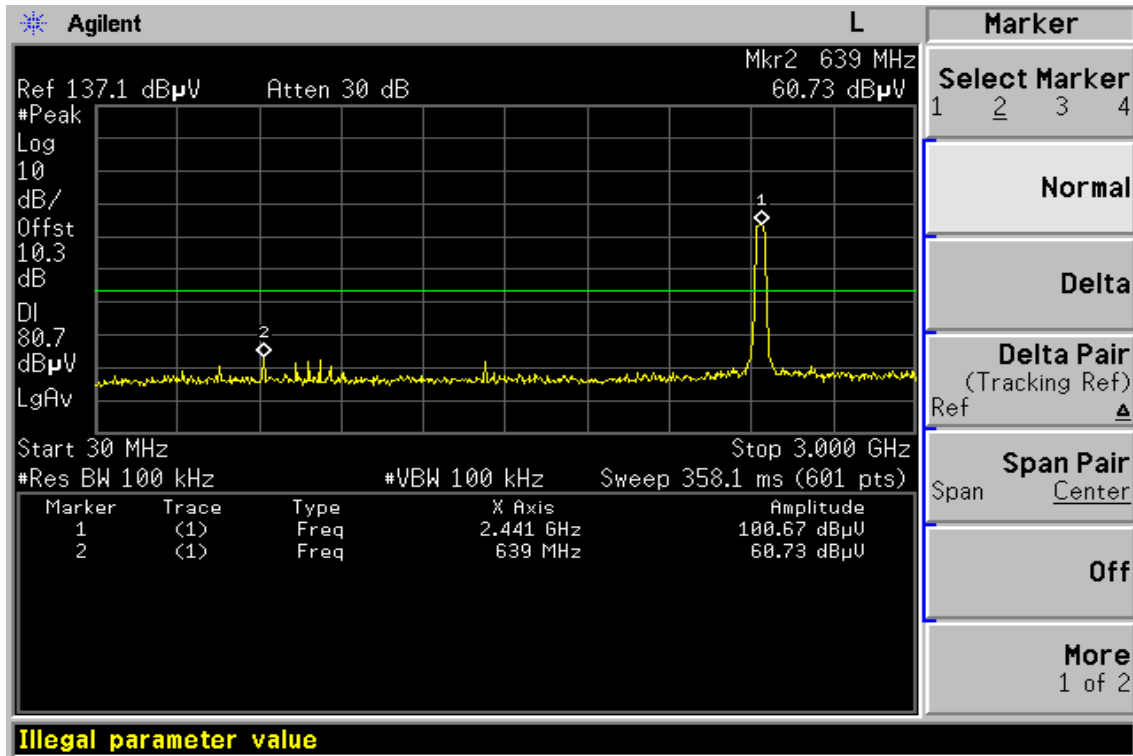


### Ch Low 3GHz – 26.5GHz

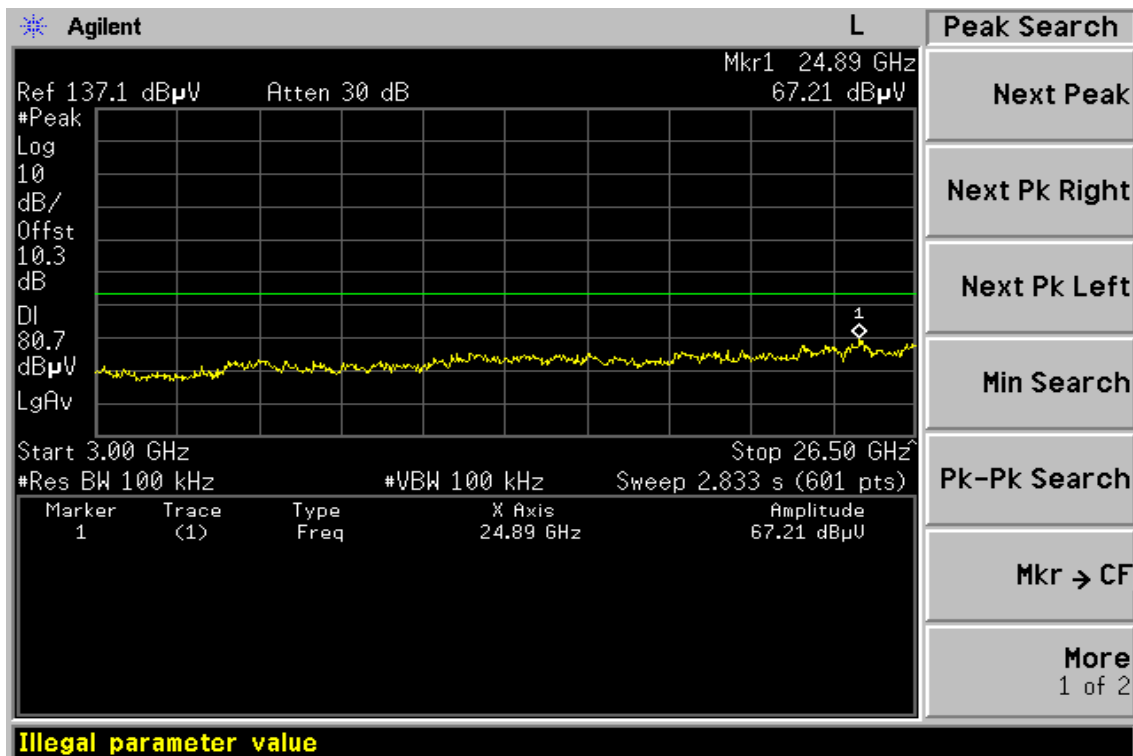


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## Ch Mid 30MHz – 3GHz

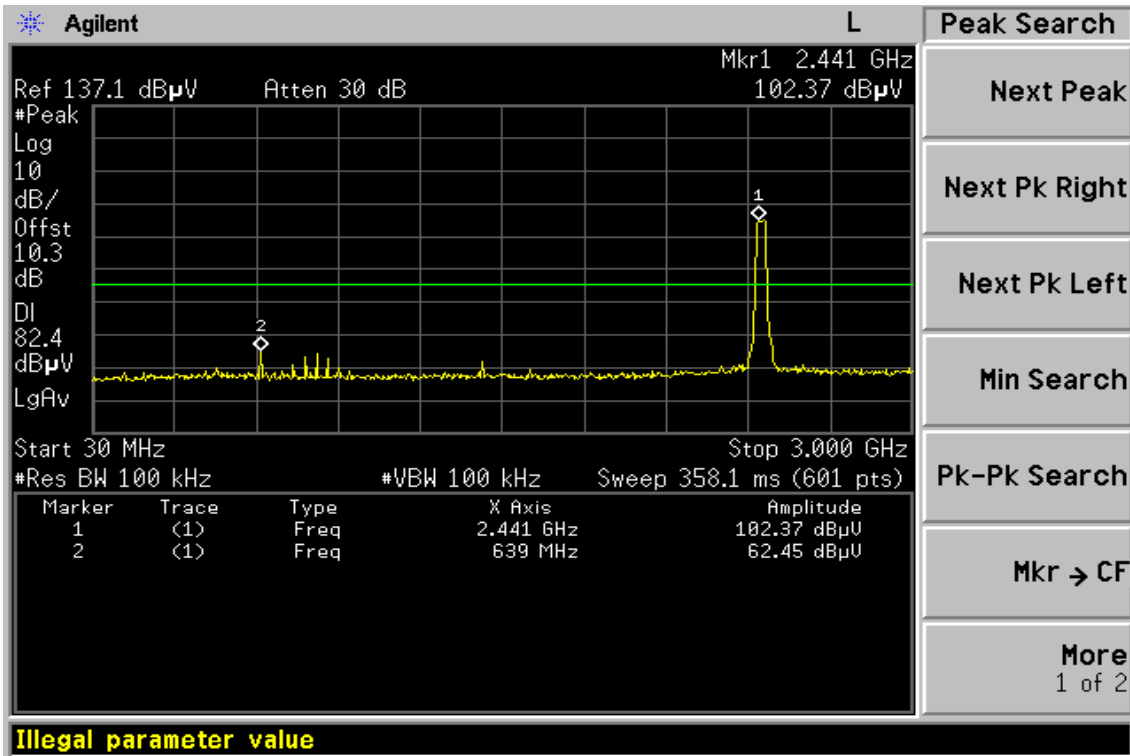


## Ch Mid 3GHz – 26.5GHz

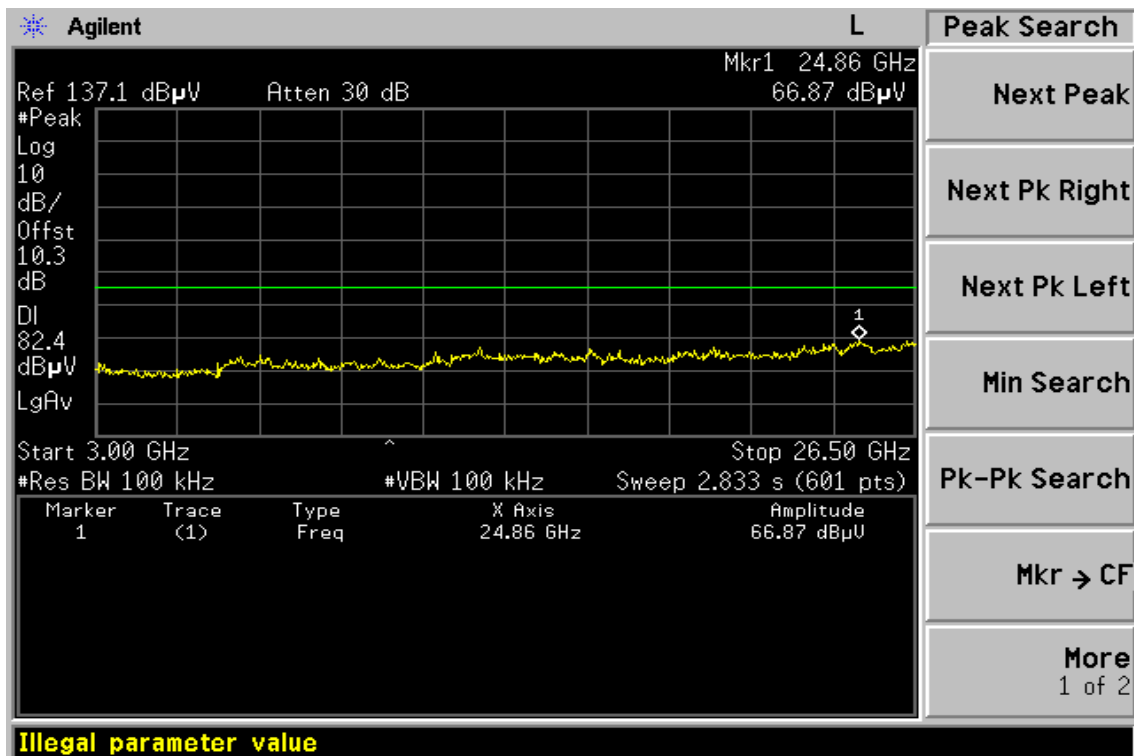


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## Ch High 30MHz – 3GHz



## Ch High 3GHz – 26.5GHz



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**Radiated Spurious Emission Measurement Result (below 1GHz), The worst mode**

Operation Mode	802.11b TX CH Low 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412MHz	Test By	Jason
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	50.37	-16.87	33.50	43.50	-10.00
240.49	V	Peak	50.03	-14.11	35.92	46.00	-10.08
358.83	V	Peak	50.65	-11.43	39.22	46.00	-6.78
453.89	V	Peak	44.93	-8.60	36.33	46.00	-9.67
41.64	H	Peak	46.26	-13.76	32.50	40.00	-7.50
101.78	H	Peak	47.77	-16.87	30.90	43.50	-12.60
240.49	H	Peak	46.75	-14.11	32.64	46.00	-13.36
298.69	H	Peak	47.56	-13.13	34.43	46.00	-11.57

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11b TX CH Mid 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2437MHz	Test By	Jason
Temperature	25°C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	50.63	-16.87	33.76	43.50	-9.74
240.49	V	Peak	50.03	-14.11	35.92	46.00	-10.08
358.83	V	Peak	50.40	-11.43	38.97	46.00	-7.03
455.83	V	Peak	43.43	-8.61	34.82	46.00	-11.18
38.73	H	Peak	47.06	-13.84	33.22	40.00	-6.78
101.78	H	Peak	46.39	-16.87	29.52	43.50	-13.98
240.49	H	Peak	45.98	-14.11	31.87	46.00	-14.13
298.69	H	Peak	44.55	-13.13	31.42	46.00	-14.58

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11b TX CH High 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462MHz	Test By	Jason
Temperature	25°C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	49.61	-16.87	32.74	43.50	-10.76
198.78	V	Peak	46.63	-15.56	31.07	43.50	-12.43
240.49	V	Peak	49.96	-14.11	35.85	46.00	-10.15
358.83	V	Peak	50.85	-11.43	39.42	46.00	-6.58
39.70	H	Peak	46.20	-13.73	32.47	40.00	-7.53
101.78	H	Peak	46.13	-16.87	29.26	43.50	-14.24
240.49	H	Peak	46.78	-14.11	32.67	46.00	-13.33
298.69	H	Peak	45.55	-13.13	32.42	46.00	-13.58

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

**Radiated Spurious Emission Measurement Result (above 1GHz), The worst mode**

Operation Mode	802.11b TX CH Low 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2001.0	39.33	--	-3.41	35.92	--	74.00	54.00	-18.08	Peak
3203.0	37.21	--	1.07	38.28	--	74.00	54.00	-15.72	Peak
4824.0	----								
6421.0	37.23	--	9.59	46.82	--	74.00	54.00	-7.18	Peak
7236.0	----								
9648.0	----								
12060.0	----								
14472.0	----								
16884.0	----								
19296.0	----								
21708.0	----								
24120.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	802.11b TX CH Low 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1435.5	42.04	--	-6.22	35.82	--	74.00	54.00	-18.18	Peak
3203.5	43.87	--	1.07	44.94	--	74.00	54.00	-9.06	Peak
4824.0	----								
6421.0	40.61	--	9.59	50.20	--	74.00	54.00	-3.80	Peak
7236.0	----								
9648.0	----								
12060.0	----								
14472.0	----								
16884.0	----								
19296.0	----								
21708.0	----								
24120.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	802.11b TX CH Mid 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3236.0	37.12	--	1.20	38.32	--	74.00	54.00	-15.68	Peak
4874.0	----								
6486.0	37.46	--	9.71	47.17	--	74.00	54.00	-6.83	Peak
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11b TX CH Mid 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1435.5	41.10	--	-6.22	34.88	--	74.00	54.00	-19.12	Peak
3236.0	42.64	--	1.20	43.84	--	74.00	54.00	-10.16	Peak
4874.0	----								
6486.0	42.23	--	9.71	51.94	--	74.00	54.00	-2.06	Peak
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11b TX CH High 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4924.0	----								
5140.5	35.52	--	6.73	42.25	--	74.00	54.00	-11.75	Peak
6570.5	36.88	--	10.12	47.00	--	74.00	54.00	-7.00	Peak
7386.0	----								
9848.0	----								
12310.0	----								
14772.0	----								
17234.0	----								
19696.0	----								
22158.0	----								
24620.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	802.11b TX CH High 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1435.5	42.82	--	-6.22	36.60	--	74.00	54.00	-17.40	Peak
3288.0	40.87	--	1.36	42.23	--	74.00	54.00	-11.77	Peak
4924.0	----								
6570.5	40.29	--	10.12	50.41	--	74.00	54.00	-3.59	Peak
7386.0	----								
9848.0	----								
12310.0	----								
14772.0	----								
17234.0	----								
19696.0	----								
22158.0	----								
24620.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode	802.11g TX CH Low 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	49.64	-16.87	32.77	43.50	-10.73
240.49	V	Peak	51.01	-14.11	36.90	46.00	-9.10
358.83	V	Peak	50.85	-11.43	39.42	46.00	-6.58
453.89	V	Peak	42.01	-8.60	33.41	46.00	-12.59
38.73	H	Peak	45.69	-13.84	31.85	40.00	-8.15
101.78	H	Peak	46.35	-16.87	29.48	43.50	-14.02
240.49	H	Peak	46.12	-14.11	32.01	46.00	-13.99
358.83	H	Peak	46.92	-11.43	35.49	46.00	-10.51

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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**Radiated Spurious Emission Measurement Result (below 1GHz), The worst mode**

Operation Mode	802.11g TX CH Mid 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2437MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
37.76	V	Peak	44.26	-14.24	30.02	40.00	-9.98
101.78	V	Peak	49.38	-16.87	32.51	43.50	-10.99
240.49	V	Peak	49.51	-14.11	35.40	46.00	-10.60
358.83	V	Peak	51.07	-11.43	39.64	46.00	-6.36
38.73	H	Peak	46.06	-13.84	32.22	40.00	-7.78
101.78	H	Peak	46.59	-16.87	29.72	43.50	-13.78
240.49	H	Peak	46.81	-14.11	32.70	46.00	-13.30
300.63	H	Peak	47.51	-13.11	34.40	46.00	-11.60

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode	802.11g TX CH High 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	50.50	-16.87	33.63	43.50	-9.87
240.49	V	Peak	50.51	-14.11	36.40	46.00	-9.60
358.83	V	Peak	51.21	-11.43	39.78	46.00	-6.22
455.83	V	Peak	42.21	-8.61	33.60	46.00	-12.40
101.78	H	Peak	46.38	-16.87	29.51	43.50	-13.99
240.49	H	Peak	46.86	-14.11	32.75	46.00	-13.25
298.69	H	Peak	45.54	-13.13	32.41	46.00	-13.59
358.83	H	Peak	47.44	-11.43	36.01	46.00	-9.99

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.



**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11g TX CH Low 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4824.0	----								
6421.0	37.01	--	9.59	46.60	--	74.00	54.00	-7.40	Peak
7236.0	----								
9648.0	----								
12060.0	----								
14472.0	----								
16884.0	----								
19296.0	----								
21708.0	----								
24120.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11g TX CH Low 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1435.5	40.84	--	-6.22	34.62	--	74.00	54.00	-19.38	Peak
3203.5	44.68	--	1.07	45.75	--	74.00	54.00	-8.25	Peak
4824.0	----								
6421.0	40.02	--	9.59	49.61	--	74.00	54.00	-4.39	Peak
7236.0	----								
9648.0	----								
12060.0	----								
14472.0	----								
16884.0	----								
19296.0	----								
21708.0	----								
24120.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11g TX CH Mid 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3775.5	36.10	--	2.94	39.04	--	74.00	54.00	-14.96	Peak
4874.0	----								
6486.0	35.90	--	9.71	45.61	--	74.00	54.00	-8.39	Peak
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11g TX CH Mid 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1435.5	40.96	--	-6.22	34.74	--	74.00	54.00	-19.26	Peak
3236.0	42.59	--	1.20	43.79	--	74.00	54.00	-10.21	Peak
4874.0	----								
6486.0	41.05	--	9.71	50.76	--	74.00	54.00	-3.24	Peak
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11g TX CH High 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4924.0	----								
6570.5	36.59	--	10.12	46.71	--	74.00	54.00	-7.29	Peak
6798.0	36.55	--	11.56	48.11	--	74.00	54.00	-5.89	Peak
7386.0	----								
9848.0	----								
12310.0	----								
14772.0	----								
17234.0	----								
19696.0	----								
22158.0	----								
24620.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11g TX CH High 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1435.5	40.51	--	-6.22	34.29	--	74.00	54.00	-19.71	Peak
3288.0	39.24	--	1.36	40.60	--	74.00	54.00	-13.40	Peak
4924.0	----								
6570.5	39.43	--	10.12	49.55	--	74.00	54.00	-4.45	Peak
7386.0	----								
9848.0	----								
12310.0	----								
14772.0	----								
17234.0	----								
19696.0	----								
22158.0	----								
24620.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode	802.11n 20M TX CH Low	65Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412MHz		Test By	Jason
Temperature	25		Pol	Ver./Hor
Humidity	65 %			

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	50.09	-16.87	33.22	43.50	-10.28
240.49	V	Peak	49.09	-14.11	34.98	46.00	-11.02
358.83	V	Peak	51.07	-11.43	39.64	46.00	-6.36
455.83	V	Peak	42.51	-8.61	33.90	46.00	-12.10
39.70	H	Peak	46.04	-13.73	32.31	40.00	-7.69
58.13	H	Peak	42.37	-14.66	27.71	40.00	-12.29
101.78	H	Peak	46.14	-16.87	29.27	43.50	-14.23
240.49	H	Peak	16.86	-14.11	2.75	46.00	-43.25

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11n 20M TX CH Mid	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2437MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	49.09	-16.87	32.22	43.50	-11.28
240.49	V	Peak	49.77	-14.11	35.66	46.00	-10.34
358.83	V	Peak	51.01	-11.43	39.58	46.00	-6.42
455.83	V	Peak	43.62	-8.61	35.01	46.00	-10.99
41.64	H	Peak	45.79	-13.76	32.03	40.00	-7.97
101.78	H	Peak	46.65	-16.87	29.78	43.50	-13.72
240.49	H	Peak	46.04	-14.11	31.93	46.00	-14.07
298.69	H	Peak	42.75	-13.13	29.62	46.00	-16.38

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11n 20M TX CH High	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2462MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	49.59	-16.87	32.72	43.50	-10.78
240.49	V	Peak	49.94	-14.11	35.83	46.00	-10.17
358.83	V	Peak	51.12	-11.43	39.69	46.00	-6.31
453.89	V	Peak	42.05	-8.60	33.45	46.00	-12.55
101.78	H	Peak	46.17	-16.87	29.30	43.50	-14.20
240.49	H	Peak	46.27	-14.11	32.16	46.00	-13.84
300.63	H	Peak	45.38	-13.11	32.27	46.00	-13.73
358.83	H	Peak	47.36	-11.43	35.93	46.00	-10.07

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 20M TX CH Low	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4824.0	----								
6421.0	38.62	--	9.59	48.21	--	74.00	54.00	-5.79	Peak
7236.0	----								
9648.0	----								
12060.0	----								
14472.0	----								
16884.0	----								
19296.0	----								
21708.0	----								
24120.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	802.11n 20M TX CH Low	65Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412 MHz		Test By	Jason
Temperature	25		Pol	Hor
Humidity	65 %			

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1435.5	39.26	--	-6.22	33.04	--	74.00	54.00	-20.96	Peak
3203.5	42.37	--	1.07	43.44	--	74.00	54.00	-10.56	Peak
4824.0	----								
6421.0	39.61	--	9.59	49.20	--	74.00	54.00	-4.80	Peak
7236.0	----								
9648.0	----								
12060.0	----								
14472.0	----								
16884.0	----								
19296.0	----								
21708.0	----								
24120.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 20M TX CH Mid	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3236.0	38.92	--	1.20	40.12	--	74.00	54.00	-13.88	Peak
4874.0	----								
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	802.11n 20M TX CH Mid	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3236.0	41.45	--	1.20	42.65	--	74.00	54.00	-11.35	Peak
4874.0	----								
6486.0	39.80	--	9.71	49.51	--	74.00	54.00	-4.49	Peak
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 20M TX CH High	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4924.0	----								
6570.5	36.92	--	10.12	47.04	--	74.00	54.00	-6.96	Peak
7386.0	----								
9848.0	----								
12310.0	----								
14772.0	----								
17234.0	----								
19696.0	----								
22158.0	----								
24620.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 20M TX CH High	65Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462 MHz		Test By	Jason
Temperature	25		Pol	Hor
Humidity	65 %			

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3288.0	38.10	--	1.36	39.46	--	74.00	54.00	-14.54	Peak
4924.0	----								
6570.5	40.28	--	10.12	50.40	--	74.00	54.00	-3.60	Peak
7386.0	----								
9848.0	----								
12310.0	----								
14772.0	----								
17234.0	----								
19696.0	----								
22158.0	----								
24620.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11n 40M TX CH Low	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2422MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	48.66	-16.87	31.79	43.50	-11.71
240.49	V	Peak	48.46	-14.11	34.35	46.00	-11.65
358.83	V	Peak	50.19	-11.43	38.76	46.00	-7.24
455.83	V	Peak	42.56	-8.61	33.95	46.00	-12.05
101.78	H	Peak	46.25	-16.87	29.38	43.50	-14.12
240.79	H	Peak	46.45	-14.11	32.34	46.00	-13.66
298.69	H	Peak	45.04	-13.13	31.91	46.00	-14.09
358.83	H	Peak	47.85	-11.43	36.42	46.00	-9.58

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11n 40M TX CH Mid	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2437MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
39.70	V	Peak	44.84	-13.73	31.11	40.00	-8.89
101.78	V	Peak	49.39	-16.87	32.52	43.50	-10.98
240.49	V	Peak	49.55	-14.11	35.44	46.00	-10.56
358.83	V	Peak	50.78	-11.43	39.35	46.00	-6.65
38.73	H	Peak	47.32	-13.84	33.48	40.00	-6.52
101.78	H	Peak	46.25	-16.87	29.38	43.50	-14.12
240.49	H	Peak	46.42	-14.11	32.31	46.00	-13.69
298.69	H	Peak	44.64	-13.13	31.51	46.00	-14.49

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11n 40M TX CH High	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2452MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
41.64	V	Peak	45.38	-13.76	31.62	40.00	-8.38
58.13	V	Peak	43.32	-14.66	28.66	40.00	-11.34
101.78	V	Peak	48.56	-16.87	31.69	43.50	-11.81
240.49	V	Peak	49.41	-14.11	35.30	46.00	-10.70
101.78	H	Peak	47.55	-16.87	30.68	43.50	-12.82
240.49	H	Peak	46.34	-14.11	32.23	46.00	-13.77
298.69	H	Peak	43.40	-13.13	30.27	46.00	-15.73
358.83	H	Peak	46.71	-11.43	35.28	46.00	-10.72

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 40M TX CH Low 65Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2422 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4328.0	35.97	--	4.79	40.76	--	74.00	54.00	-13.24	Peak
4844.0	----								
6440.5	38.18	--	9.64	47.82	--	74.00	54.00	-6.18	Peak
7266.0	----								
9688.0	----								
12110.0	----								
14532.0	----								
16954.0	----								
19376.0	----								
21798.0	----								
24220.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 40M TX CH Low 65Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2422 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1435.5	41.48	--	-6.22	35.26	--	74.00	54.00	-18.74	Peak
2390.0	34.09	--	-1.39	32.70	--	74.00	54.00	-21.30	Peak
4844.0	----								
6440.5	39.26	--	9.64	48.90	--	74.00	54.00	-5.10	Peak
7266.0	----								
9688.0	----								
12110.0	----								
14532.0	----								
16954.0	----								
19376.0	----								
21798.0	----								
24220.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 40M TX CH Mid	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4874.0	----								
6486.0	37.46	--	9.71	47.17	--	74.00	54.00	-6.83	Peak
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 40M TX CH Mid	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1435.5	41.30	--	-6.22	35.08	--	74.00	54.00	-18.92	Peak
3236.0	41.51	--	1.20	42.71	--	74.00	54.00	-11.29	Peak
4874.0	----								
6486.0	40.54	--	9.71	50.25	--	74.00	54.00	-3.75	Peak
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 40M TX CH High	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2452 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4904.0	----								
6538.0	37.95	--	9.93	47.88	--	74.00	54.00	-6.12	Peak
7356.0	----								
9808.0	----								
12260.0	----								
14712.0	----								
17164.0	----								
19616.0	----								
22068.0	----								
24520.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 40M TX CH High	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2452 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1435.5	40.08	--	-6.22	33.86	--	74.00	54.00	-20.14	Peak
3268.5	40.40	--	1.30	41.70	--	74.00	54.00	-12.30	Peak
4904.0	----								
6538.0	40.16	--	9.93	50.09	--	74.00	54.00	-3.91	Peak
7356.0	----								
9808.0	----								
12260.0	----								
14712.0	----								
17164.0	----								
19616.0	----								
22068.0	----								
24520.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode	802.11b RX CH Low 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	50.07	-16.87	33.20	43.50	-10.30
240.49	V	Peak	50.43	-14.11	36.32	46.00	-9.68
300.63	V	Peak	41.73	-13.11	28.62	46.00	-17.38
453.89	V	Peak	43.32	-8.60	34.72	46.00	-11.28
38.73	H	Peak	46.91	-13.84	33.07	40.00	-6.93
101.78	H	Peak	45.90	-16.87	29.03	43.50	-14.47
201.69	H	Peak	41.83	-15.55	26.28	43.50	-17.22
240.49	H	Peak	46.57	-14.11	32.46	46.00	-13.54

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11b RX CH Mid 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2437MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	50.11	-16.87	33.24	43.50	-10.26
240.49	V	Peak	49.08	-14.11	34.97	46.00	-11.03
298.69	V	Peak	44.60	-13.13	31.47	46.00	-14.53
390.84	V	Peak	41.90	-10.31	31.59	46.00	-14.41
39.70	H	Peak	45.54	-13.73	31.81	40.00	-8.19
101.78	H	Peak	46.40	-16.87	29.53	43.50	-13.97
240.49	H	Peak	46.70	-14.11	32.59	46.00	-13.41
298.69	H	Peak	45.34	-13.13	32.21	46.00	-13.79

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11b RX CH High 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	49.41	-16.87	32.54	43.50	-10.96
240.49	V	Peak	49.24	-14.11	35.13	46.00	-10.87
266.68	V	Peak	47.90	-13.57	34.33	46.00	-11.67
363.68	V	Peak	43.14	-11.27	31.87	46.00	-14.13
39.70	H	Peak	45.67	-13.73	31.94	40.00	-8.06
101.78	H	Peak	46.86	-16.87	29.99	43.50	-13.51
203.63	H	Peak	42.93	-15.48	27.45	43.50	-16.05
240.49	H	Peak	47.56	-14.11	33.45	46.00	-12.55

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	802.11b RX CH Low 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3203.0	40.83	--	1.07	41.90	--	74.00	54.00	-12.10	Peak
4824.0	----								
7236.0	----								
9648.0	----								
12060.0	----								
14472.0	----								
16884.0	----								
19296.0	----								
21708.0	----								
24120.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11b RX CH Low 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3203.5	41.90	--	1.07	42.97	--	74.00	54.00	-11.03	Peak
4824.0	----								
7236.0	----								
9648.0	----								
12060.0	----								
14472.0	----								
16884.0	----								
19296.0	----								
21708.0	----								
24120.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11b RX CH Mid 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3236.0	38.81	--	1.20	40.01	--	74.00	54.00	-13.99	Peak
4874.0	----								
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11b RX CH Mid 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3236.0	40.19	--	1.20	41.39	--	74.00	54.00	-12.61	Peak
4874.0	----								
6486.0	35.91	--	9.71	45.62	--	74.00	54.00	-8.38	Peak
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	802.11b RX CH High 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3288.0	38.97	--	1.36	40.33	--	74.00	54.00	-13.67	Peak
4924.0	----								
5140.5	35.52	--	6.73	42.25	--	74.00	54.00	-11.75	Peak
7386.0	----								
9848.0	----								
12310.0	----								
14772.0	----								
17234.0	----								
19696.0	----								
22158.0	----								
24620.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11b RX CH High 11Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3288.0	41.92	--	1.36	43.28	--	74.00	54.00	-10.72	Peak
4924.0	----								
7386.0	----								
9848.0	----								
12310.0	----								
14772.0	----								
17234.0	----								
19696.0	----								
22158.0	----								
24620.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency。
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode	802.11g RX CH Low 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	49.75	-16.87	32.88	43.50	-10.62
240.49	V	Peak	50.55	-14.11	36.44	46.00	-9.56
298.69	V	Peak	43.75	-13.13	30.62	46.00	-15.38
455.83	V	Peak	43.21	-8.61	34.60	46.00	-11.40
58.13	H	Peak	42.53	-14.66	27.87	40.00	-12.13
101.78	H	Peak	45.64	-16.87	28.77	43.50	-14.73
240.49	H	Peak	47.22	-14.11	33.11	46.00	-12.89
300.63	H	Peak	45.66	-13.11	32.55	46.00	-13.45

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11g RX CH Mid 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2437MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	49.65	-16.87	32.78	43.50	-10.72
240.49	V	Peak	49.25	-14.11	35.14	46.00	-10.86
387.93	V	Peak	42.25	-10.41	31.84	46.00	-14.16
453.89	V	Peak	43.74	-8.60	35.14	46.00	-10.86
41.64	H	Peak	46.32	-13.76	32.56	40.00	-7.44
101.78	H	Peak	46.05	-16.87	29.18	43.50	-14.32
240.49	H	Peak	46.34	-14.11	32.23	46.00	-13.77
298.69	H	Peak	44.48	-13.13	31.35	46.00	-14.65

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11g RX CH High 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	49.64	-16.87	32.77	43.50	-10.73
240.49	V	Peak	48.26	-14.11	34.15	46.00	-11.85
390.84	V	Peak	39.85	-10.31	29.54	46.00	-16.46
455.83	V	Peak	41.88	-8.61	33.27	46.00	-12.73
101.78	H	Peak	45.94	-16.87	29.07	43.50	-14.43
240.49	H	Peak	46.12	-14.11	32.01	46.00	-13.99
298.69	H	Peak	46.20	-13.13	33.07	46.00	-12.93
366.59	H	Peak	42.94	-11.17	31.77	46.00	-14.23

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11g RX CH Low 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1936.0	40.19	--	-3.73	36.46	--	74.00	54.00	-17.54	Peak
3203.5	40.00	--	1.07	41.07	--	74.00	54.00	-12.93	Peak
4824.0	----								
6310.5	35.94	--	9.38	45.32	--	74.00	54.00	-8.68	Peak
7236.0	----								
9648.0	----								
12060.0	----								
14472.0	----								
16884.0	----								
19296.0	----								
21708.0	----								
24120.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11g RX CH Low 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3203.5	42.58	--	1.07	43.65	--	74.00	54.00	-10.35	Peak
4824.0	----								
7236.0	----								
9648.0	----								
12060.0	----								
14472.0	----								
16884.0	----								
19296.0	----								
21708.0	----								
24120.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11g RX CH Mid 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3236.0	38.80	--	1.20	40.00	--	74.00	54.00	-14.00	Peak
4874.0	----								
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11g RX CH Mid 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3236.0	42.26	--	1.20	43.46	--	74.00	54.00	-10.54	Peak
4874.0	----								
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11g RX CH High 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3288.0	38.25	--	1.36	39.61	--	74.00	54.00	-14.39	Peak
4924.0	----								
7386.0	----								
9848.0	----								
12310.0	----								
14772.0	----								
17234.0	----								
19696.0	----								
22158.0	----								
24620.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11g RX CH High 54Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3288.0	40.37	--	1.36	41.73	--	74.00	54.00	-12.27	Peak
4924.0	----								
7386.0	----								
9848.0	----								
12310.0	----								
14772.0	----								
17234.0	----								
19696.0	----								
22158.0	----								
24620.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11n 20M RX CH Low 65Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	50.04	-16.87	33.17	43.50	-10.33
240.49	V	Peak	50.46	-14.11	36.35	46.00	-9.65
298.69	V	Peak	42.44	-13.13	29.31	46.00	-16.69
455.83	V	Peak	42.05	-8.61	33.44	46.00	-12.56
39.70	H	Peak	45.01	-13.73	31.28	40.00	-8.72
101.78	H	Peak	47.10	-16.87	30.23	43.50	-13.27
240.49	H	Peak	47.15	-14.11	33.04	46.00	-12.96
298.69	H	Peak	44.13	-13.13	31.00	46.00	-15.00

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11n 20M RX CH Mid	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2437MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	49.65	-16.87	32.78	43.50	-10.72
240.49	V	Peak	49.59	-14.11	35.48	46.00	-10.52
259.89	V	Peak	47.29	-13.64	33.65	46.00	-12.35
366.59	V	Peak	41.64	-11.17	30.47	46.00	-15.53
58.13	H	Peak	42.28	-14.66	27.62	40.00	-12.38
101.78	H	Peak	45.40	-16.87	28.53	43.50	-14.97
240.49	H	Peak	47.26	-14.11	33.15	46.00	-12.85
298.69	H	Peak	45.39	-13.13	32.26	46.00	-13.74

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11n 20M RX CH High	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2462MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	49.63	-16.87	32.76	43.50	-10.74
240.49	V	Peak	49.75	-14.11	35.64	46.00	-10.36
266.68	V	Peak	46.19	-13.57	32.62	46.00	-13.38
453.89	V	Peak	43.64	-8.60	35.04	46.00	-10.96
101.78	H	Peak	45.74	-16.87	28.87	43.50	-14.63
240.49	H	Peak	47.36	-14.11	33.25	46.00	-12.75
300.63	H	Peak	46.50	-13.11	33.39	46.00	-12.61
366.59	H	Peak	39.89	-11.17	28.72	46.00	-17.28

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 20M RX CH Low 65Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1936.0	39.69	--	-3.73	35.96	--	74.00	54.00	-18.04	Peak
3203.5	39.38	--	1.07	40.45	--	74.00	54.00	-13.55	Peak
4824.0	----								
7236.0	----								
9648.0	----								
12060.0	----								
14472.0	----								
16884.0	----								
19296.0	----								
21708.0	----								
24120.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 20M RX CH Low	65Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2412 MHz		Test By	Jason
Temperature	25		Pol	Hor
Humidity	65 %			

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3203.5	42.42	--	1.07	43.49	--	74.00	54.00	-10.51	Peak
4824.0	----								
6421.0	36.47	--	9.59	46.06	--	74.00	54.00	-7.94	Peak
7236.0	----								
9648.0	----								
12060.0	----								
14472.0	----								
16884.0	----								
19296.0	----								
21708.0	----								
24120.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 20M RX CH Mid	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1936.0	39.98	--	-3.73	36.25	--	74.00	54.00	-17.75	Peak
3236.0	39.85	--	1.20	41.05	--	74.00	54.00	-12.95	Peak
4471.0	35.76	--	5.22	40.98	--	74.00	54.00	-13.02	Peak
4874.0	----								
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 20M RX CH Mid	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3236.0	40.87	--	1.20	42.07	--	74.00	54.00	-11.93	Peak
4874.0	----								
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	802.11n 20M RX CH High	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2462 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3288.0	39.02	--	1.36	40.38	--	74.00	54.00	-13.62	Peak
4924.0	----								
7386.0	----								
9848.0	----								
12310.0	----								
14772.0	----								
17234.0	----								
19696.0	----								
22158.0	----								
24620.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 20M RX CH High	65Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2462 MHz		Test By	Jason
Temperature	25		Pol	Hor
Humidity	65 %			

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3288.0	39.97	--	1.36	41.33	--	74.00	54.00	-12.67	Peak
4924.0	----								
6570.5	36.34	--	10.12	46.46	--	74.00	54.00	-7.54	Peak
7386.0	----								
9848.0	----								
12310.0	----								
14772.0	----								
17234.0	----								
19696.0	----								
22158.0	----								
24620.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11n 40M RX CH Low	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2422MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
101.78	V	Peak	44.60	-16.87	27.73	43.50	-15.77
240.49	V	Peak	48.62	-14.11	34.51	46.00	-11.49
387.93	V	Peak	49.64	-10.41	39.23	46.00	-6.77
455.83	V	Peak	40.32	-8.61	31.71	46.00	-14.29
101.78	H	Peak	46.05	-16.87	29.18	43.50	-14.32
240.79	H	Peak	46.57	-14.11	32.46	46.00	-13.54
300.63	H	Peak	46.08	-13.11	32.97	46.00	-13.03
366.59	H	Peak	43.96	-11.17	32.79	46.00	-13.21

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11n 40M RX CH Mid	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2437MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
41.64	V	Peak	43.89	-13.76	30.13	40.00	-9.87
101.78	V	Peak	48.66	-16.87	31.79	43.50	-11.71
240.49	V	Peak	49.56	-14.11	35.45	46.00	-10.55
366.59	V	Peak	40.52	-11.17	29.35	46.00	-16.65
39.70	H	Peak	45.46	-13.73	31.73	40.00	-8.27
101.78	H	Peak	46.68	-16.87	29.81	43.50	-13.69
240.49	H	Peak	45.87	-14.11	31.76	46.00	-14.24
298.69	H	Peak	44.51	-13.13	31.38	46.00	-14.62

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

### Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	802.11n 40M RX CH High	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2452MHz	Test By	Jason
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
41.64	V	Peak	44.57	-13.76	30.81	40.00	-9.19
58.13	V	Peak	42.70	-14.66	28.04	40.00	-11.96
101.78	V	Peak	48.79	-16.87	31.92	43.50	-11.58
240.49	V	Peak	49.78	-14.11	35.67	46.00	-10.33
101.78	H	Peak	46.61	-16.87	29.74	43.50	-13.76
240.49	H	Peak	46.84	-14.11	32.73	46.00	-13.27
298.69	H	Peak	45.78	-13.13	32.65	46.00	-13.35
366.59	H	Peak	40.31	-11.17	29.14	46.00	-16.86

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.



**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 40M RX CH Low	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2422 MHz	Test By	Jason
Temperature	25	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3223.0	40.44	--	1.15	41.59	--	74.00	54.00	-12.41	Peak
4844.0	----								
7266.0	----								
9688.0	----								
12110.0	----								
14532.0	----								
16954.0	----								
19376.0	----								
21798.0	----								
24220.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 40M RX CH Low 65Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2422 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3223.0	41.48	--	1.15	42.63	--	74.00	54.00	-11.37	Peak
4844.0	----								
6440.5	36.08	--	9.64	45.72	--	74.00	54.00	-8.28	Peak
7266.0	----								
9688.0	----								
12110.0	----								
14532.0	----								
16954.0	----								
19376.0	----								
21798.0	----								
24220.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 40M RX CH Mid	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3236.0	37.99	--	1.20	39.19	--	74.00	54.00	-14.81	Peak
4874.0	----								
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 40M RX CH Mid	Test Date	Sep. 19, 2007
	65Mbps		
Fundamental Frequency	2437 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3236.0	41.66	--	1.20	42.86	--	74.00	54.00	-11.14	Peak
4874.0	----								
7311.0	----								
9748.0	----								
12185.0	----								
14622.0	----								
17059.0	----								
19496.0	----								
21933.0	----								
24370.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 40M RX CH High 65Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2452 MHz	Test By	Jason
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3268.5	39.26	--	1.30	40.56	--	74.00	54.00	-13.44	Peak
4904.0	----								
7356.0	----								
9808.0	----								
12260.0	----								
14712.0	----								
17164.0	----								
19616.0	----								
22068.0	----								
24520.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode	802.11n 40M TX CH High 65Mbps	Test Date	Sep. 19, 2007
Fundamental Frequency	2452 MHz	Test By	Jason
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3268.5	42.01	--	1.30	43.31	--	74.00	54.00	-10.69	Peak
4904.0	----								
7356.0	----								
9808.0	----								
12260.0	----								
14712.0	----								
17164.0	----								
19616.0	----								
22068.0	----								
24520.0	----								

Remark :

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 6dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column. When measured Peak value is under AV Limit, It doesn't need to measure AV value again.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## 10. Peak Power Spectral Density

### 10.1 Standard Applicable

According to §15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

According to RSS-Annex 8.2(2) The transmitter power spectral density (into the antenna) shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission or over 1.0 second if the transmission exceeds 1.0 second duration.

### 10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 3KHz, VBW = 10KHz, Span = 1.5MHz, Sweep=100s
4. Record the max. reading.
5. Repeat above procedures until all frequency measured were complete.

### 10.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2007	03/28/2008
Spectrum Analyzer	Agilent	7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Agilent	ZFSC-2-10G	N/A	10/07/2006	10/06/2007

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## 10.4 Measurement Result

### 802.11b, 1M

CH	RF Power Density Reading (dBm)	Cable loss (dB)	RF Power Density Level (dBm)	Maximum Limit (dBm)
Low	-19.76	0.00	-19.76	8
Mid	-19.04	0.00	-19.04	8
High	-14.64	0.00	-14.64	8

### 802.11g, 6M

CH	RF Power Density Reading (dBm)	Cable loss (dB)	RF Power Density Level (dBm)	Maximum Limit (dBm)
Low	-18.35	0.00	-18.35	8
Mid	-18.35	0.00	-18.35	8
High	-19.07	0.00	-19.07	8

### 802.11n\_20M, 6.5M

CH	RF Power Density Reading (dBm)	Cable loss (dB)	RF Power Density Level (dBm)	Maximum Limit (dBm)
Low	-17.06	0.00	-17.06	8
Mid	-17.67	0.00	-17.67	8
High	-18.07	0.00	-18.07	8

### 802.11n\_40M, 6.5M

CH	RF Power Density Reading (dBm)	Cable loss (dB)	RF Power Density Level (dBm)	Maximum Limit (dBm)
Low	-21.82	0.00	-21.82	8
Mid	-24.61	0.00	-24.61	8
High	-21.11	0.00	-21.11	8

**Note: offset 10.3 dB for insertion loss**

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802.11b, 11M

CH	RF Power Density Reading (dBm)	Cable loss (dB)	RF Power Density Level (dBm)	Maximum Limit (dBm)
Low	-14.70	0.00	-14.70	8
Mid	-14.69	0.00	-14.69	8
High	-15.24	0.00	-15.24	8

802.11g, 54M

CH	RF Power Density Reading (dBm)	Cable loss (dB)	RF Power Density Level (dBm)	Maximum Limit (dBm)
Low	-15.39	0.00	-15.39	8
Mid	-15.13	0.00	-15.13	8
High	-15.74	0.00	-15.74	8

802.11n\_20M, 65M

CH	RF Power Density Reading (dBm)	Cable loss (dB)	RF Power Density Level (dBm)	Maximum Limit (dBm)
Low	-16.74	0.00	-16.74	8
Mid	-16.46	0.00	-16.46	8
High	-17.19	0.00	-17.19	8

802.11n\_40M, 65M

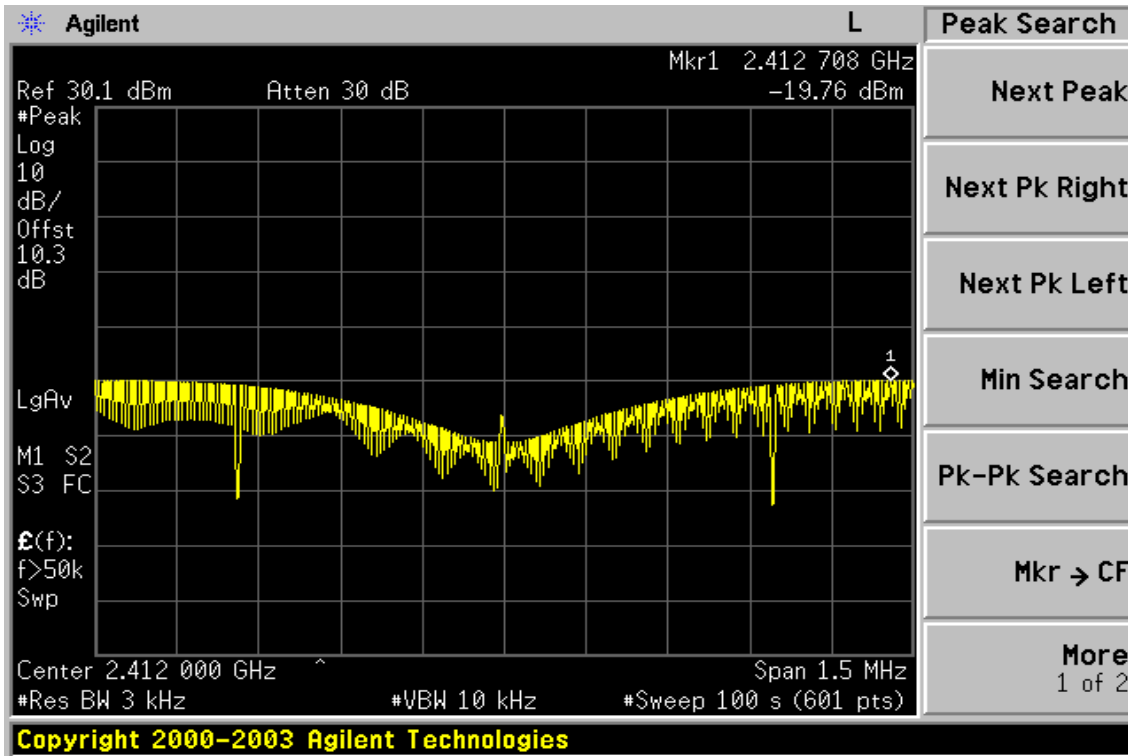
CH	RF Power Density Reading (dBm)	Cable loss (dB)	RF Power Density Level (dBm)	Maximum Limit (dBm)
Low	-20.56	0.00	-20.56	8
Mid	-19.89	0.00	-19.89	8
High	-19.77	0.00	-19.77	8

**Note: offset 10.3 dB for insertion loss**

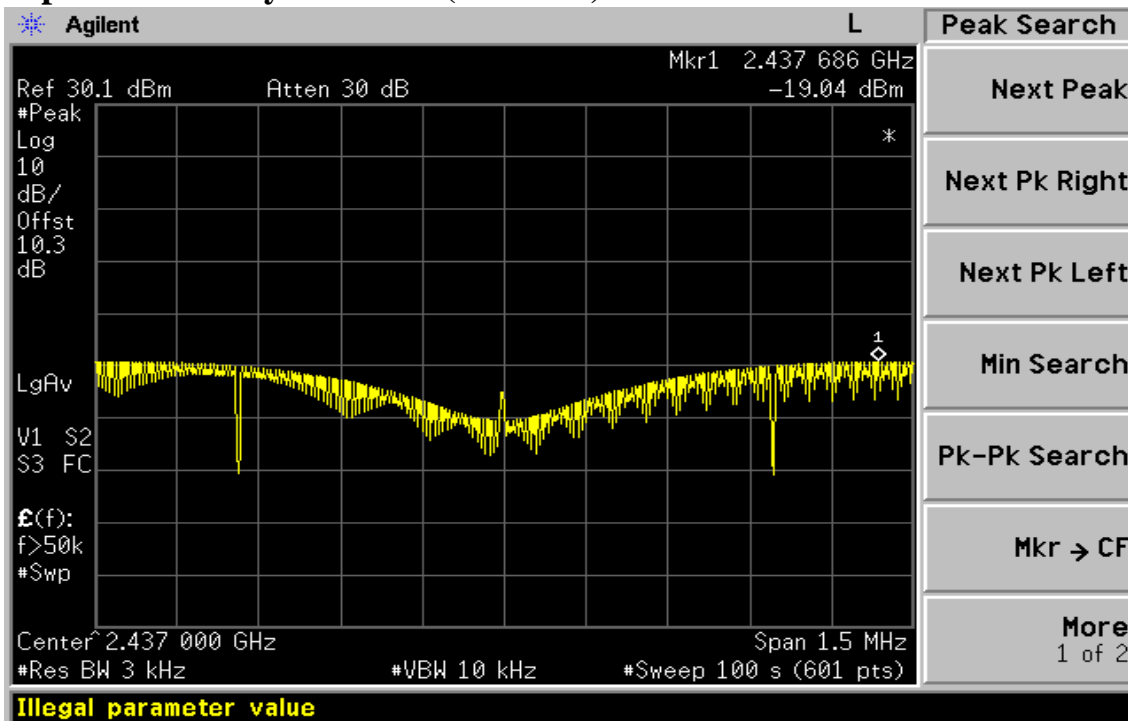
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### 802.11b, 1M Power Spectral Density Test Plot (CH-Low)

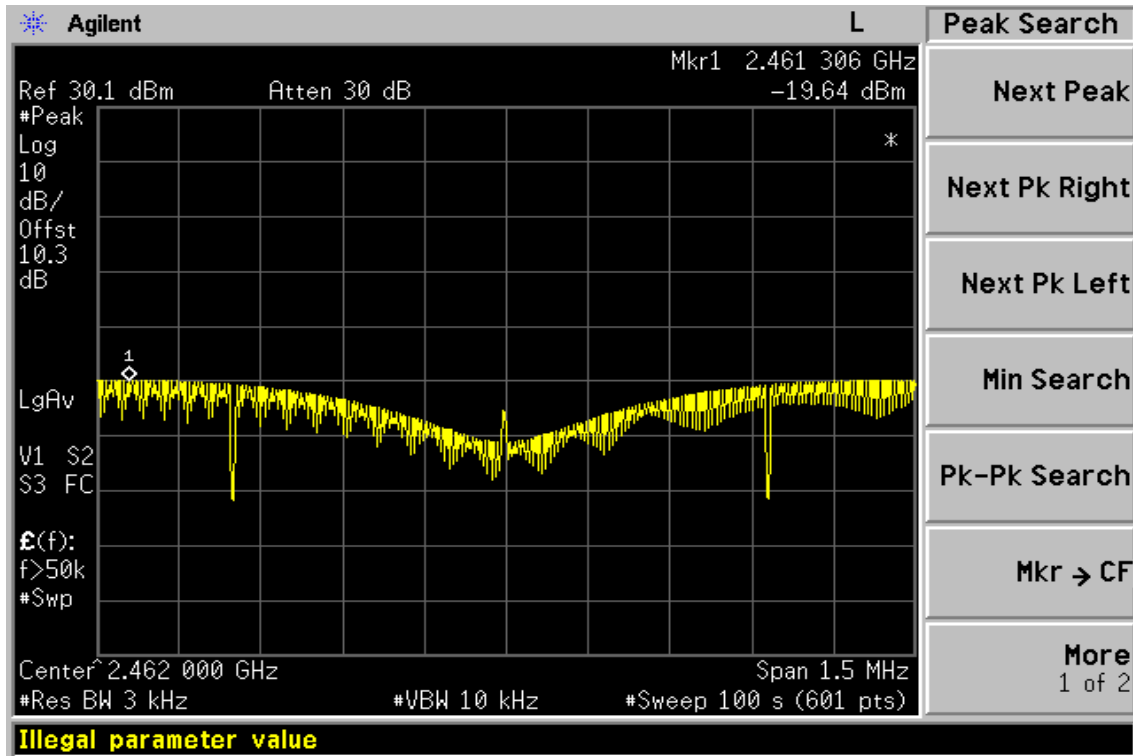


### Power Spectral Density Test Plot (CH-Mid)



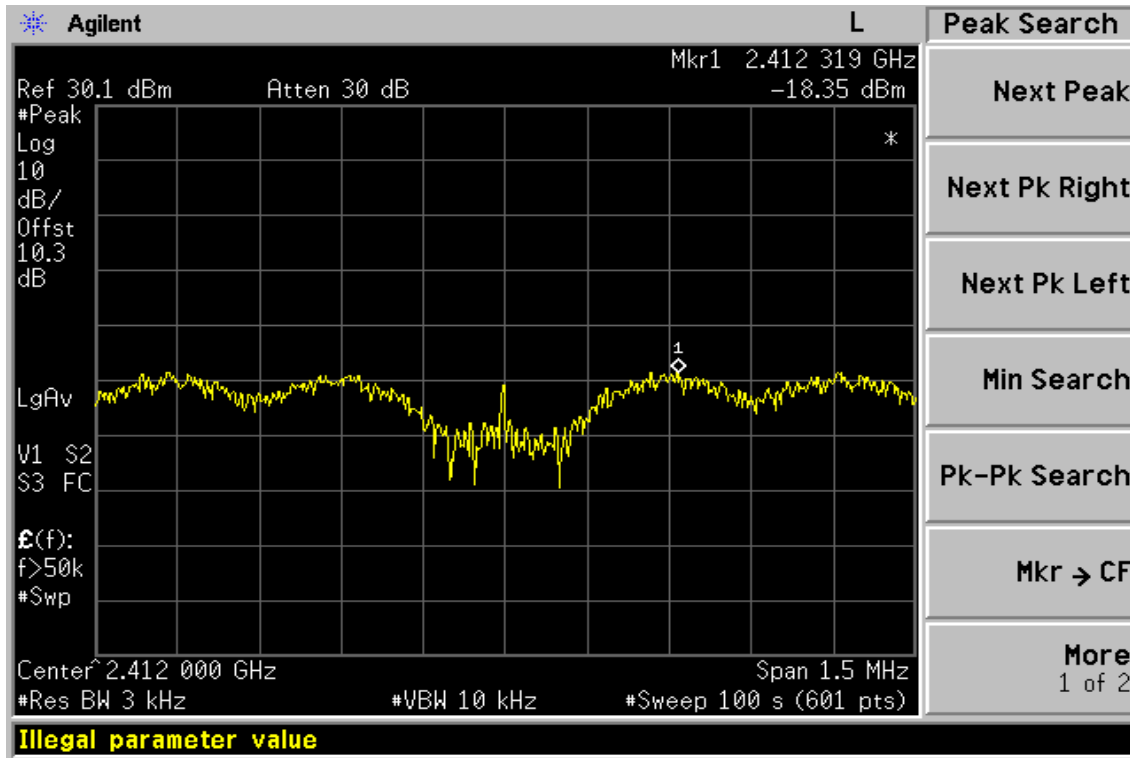
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### Power Spectral Density Test Plot (CH-High)

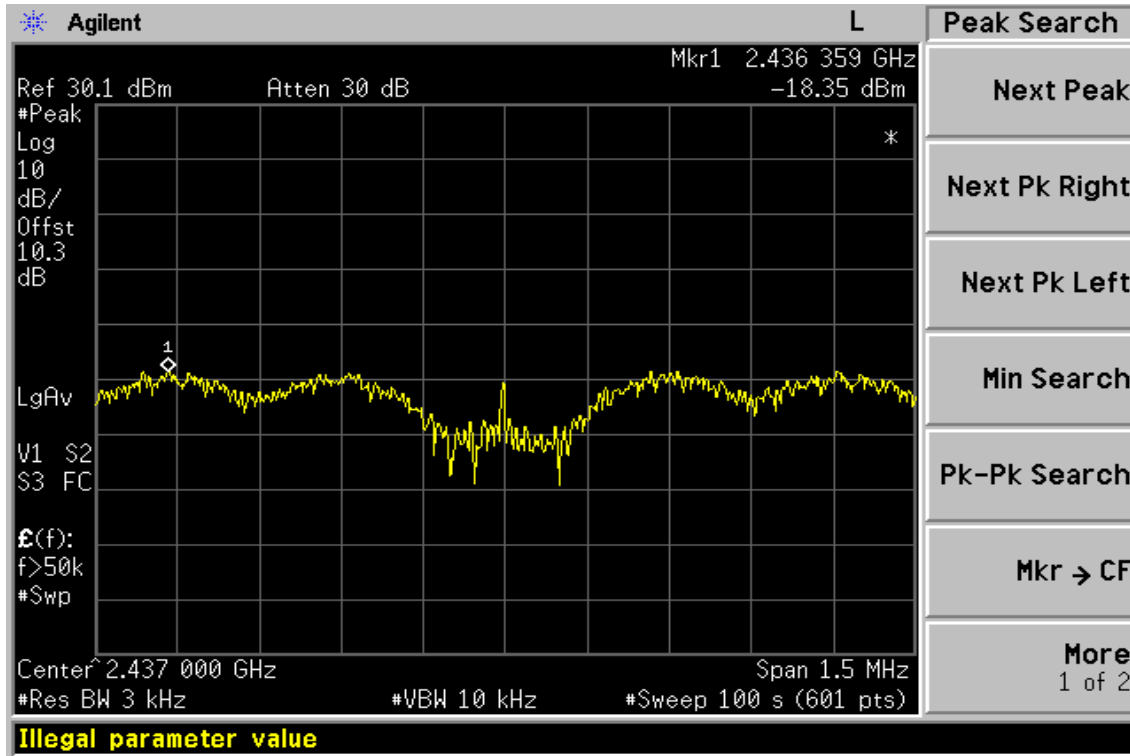


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### 802.11g, 6M Power Spectral Density Test Plot (CH-Low)

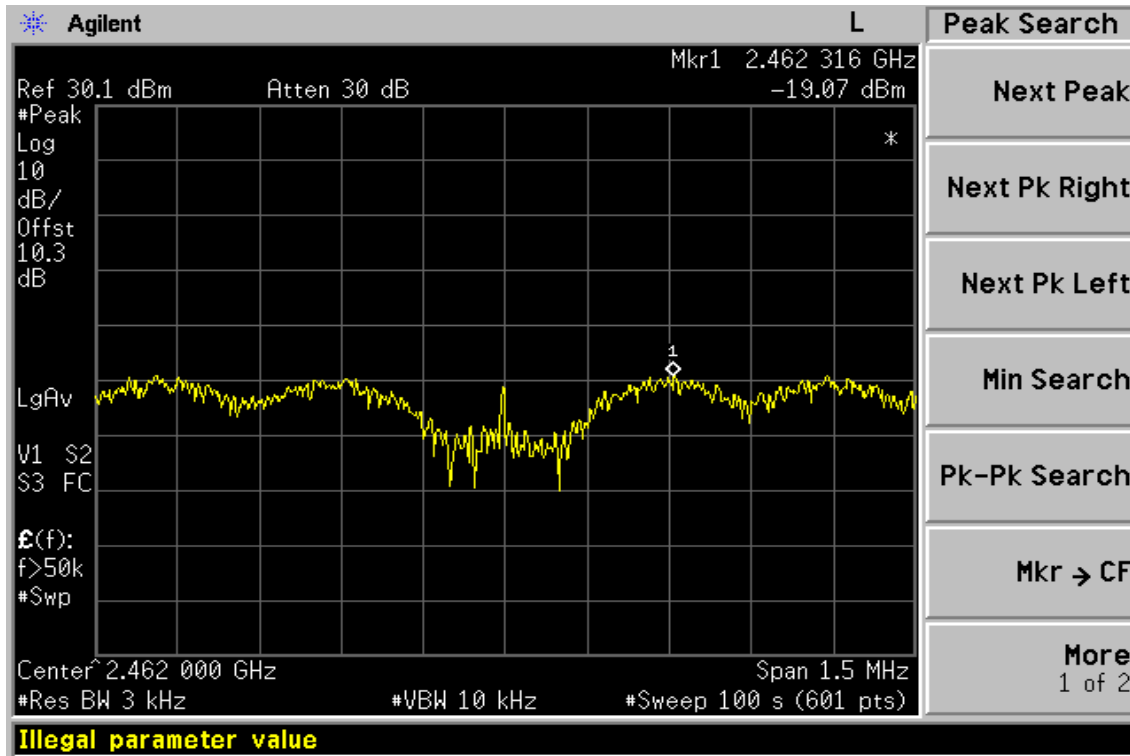


### Power Spectral Density Test Plot (CH-Mid)



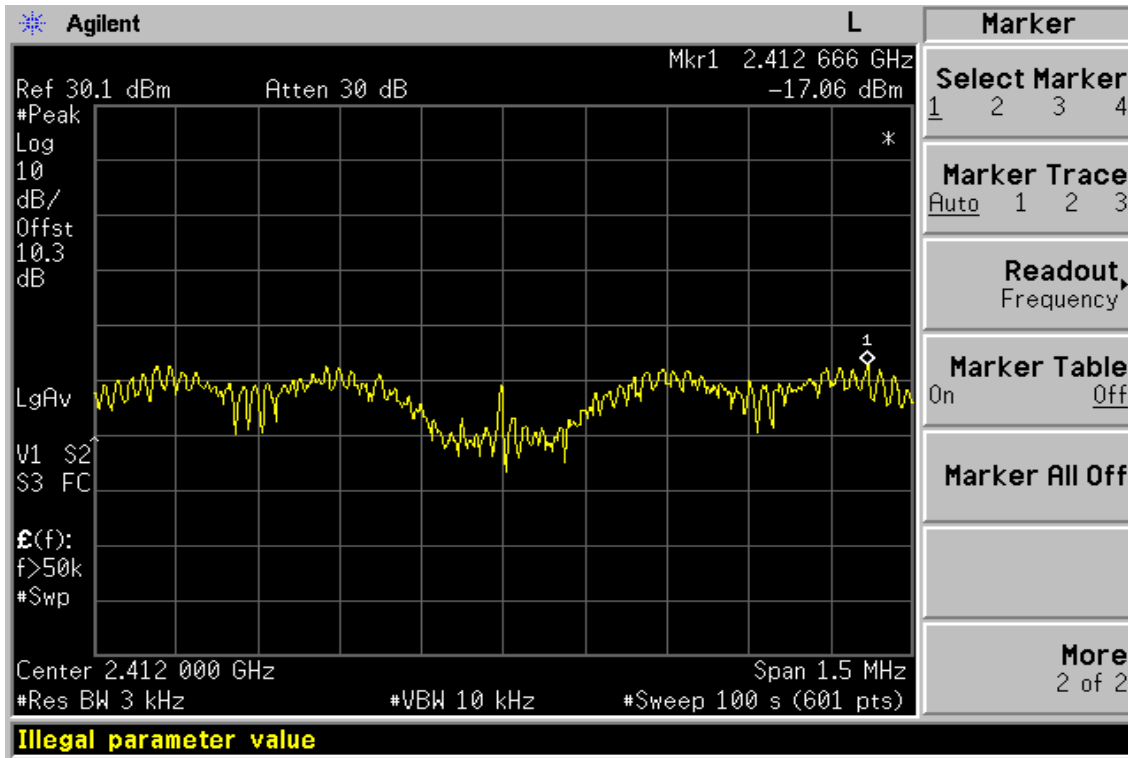
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### Power Spectral Density Test Plot (CH-High)

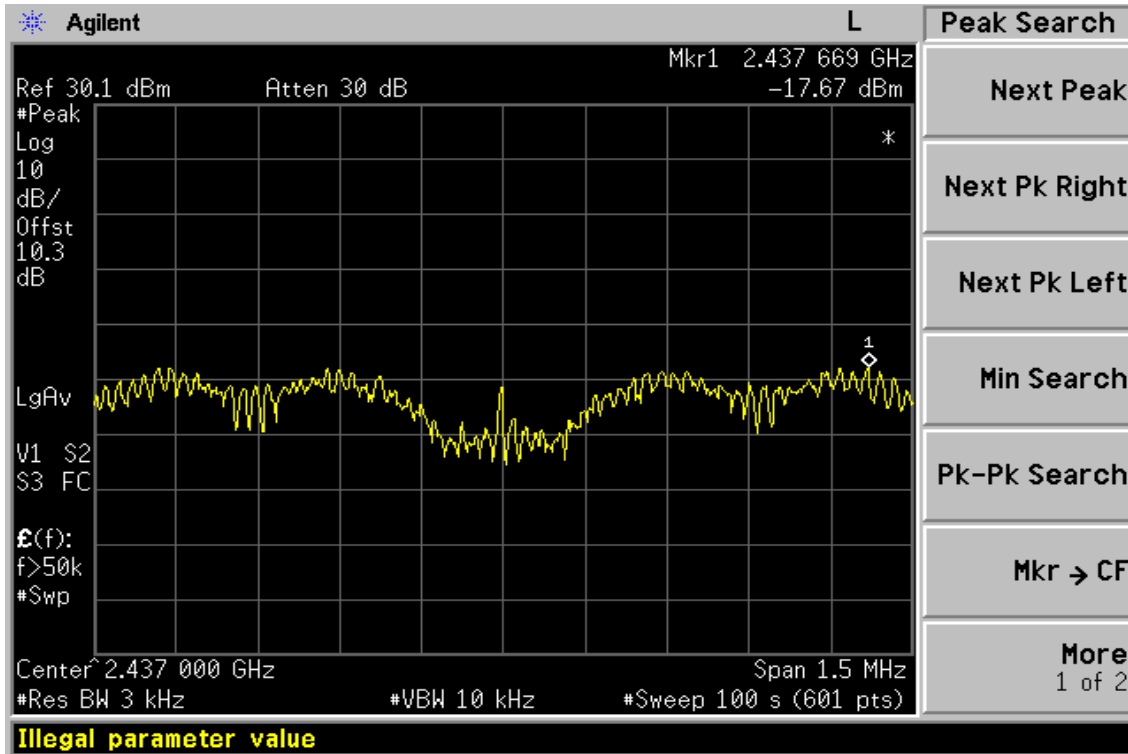


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### 802.11n\_20M, 6.5M Power Spectral Density Test Plot (CH-Low)

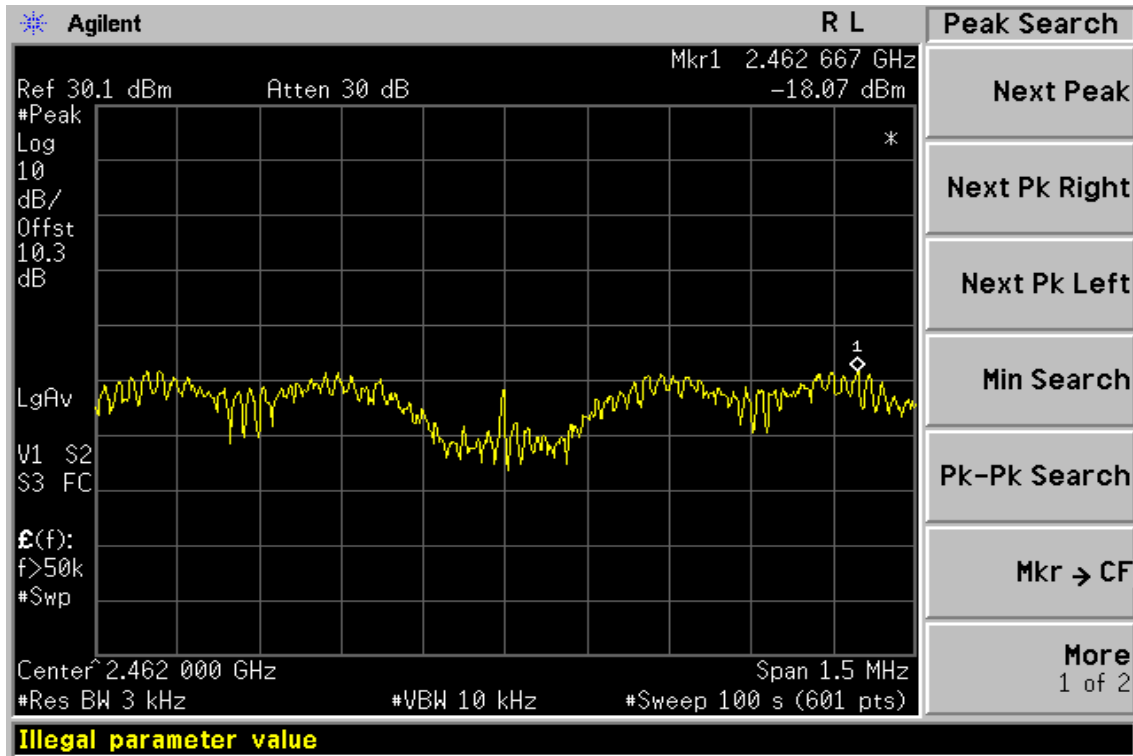


### Power Spectral Density Test Plot (CH-Mid)



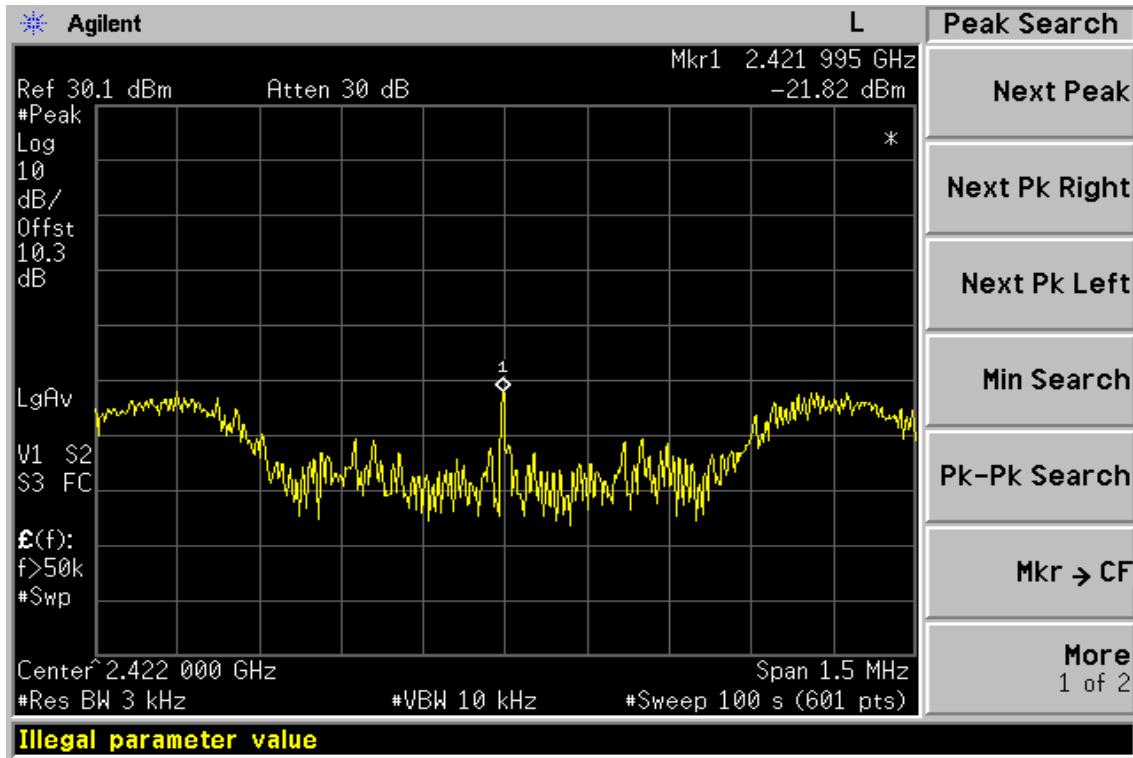
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### Power Spectral Density Test Plot (CH-High)

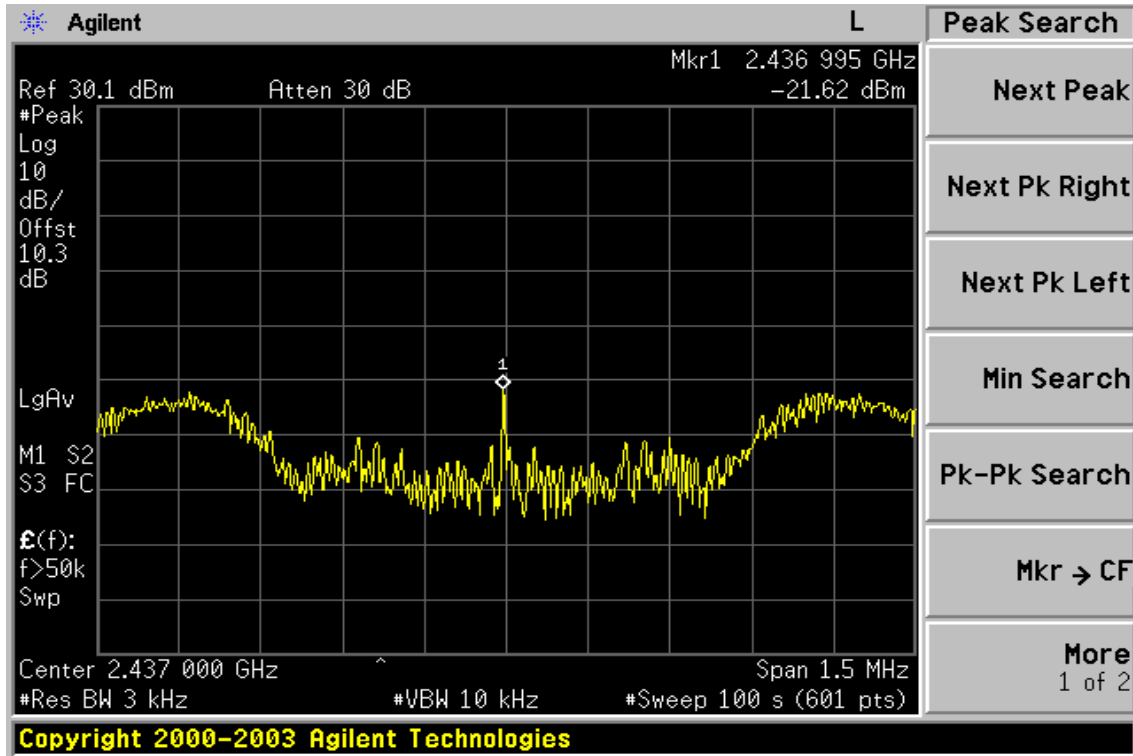


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### 802.11n\_40M, 6.5M Power Spectral Density Test Plot (CH-Low)

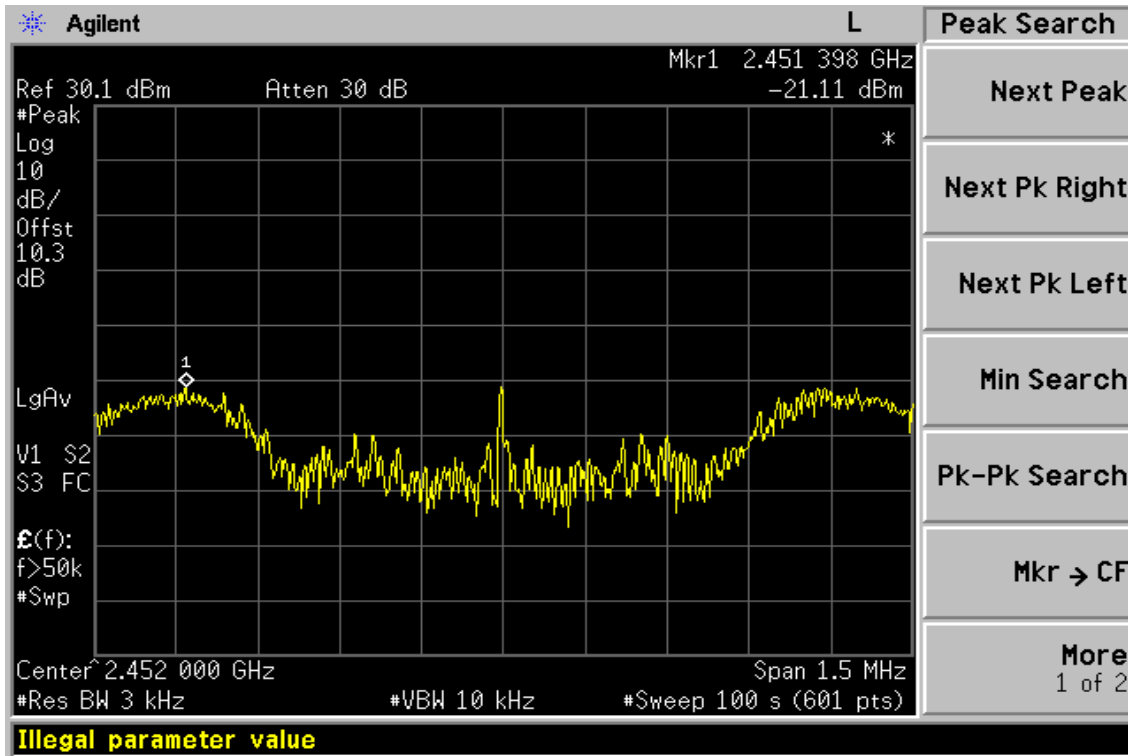


### Power Spectral Density Test Plot (CH-Mid)



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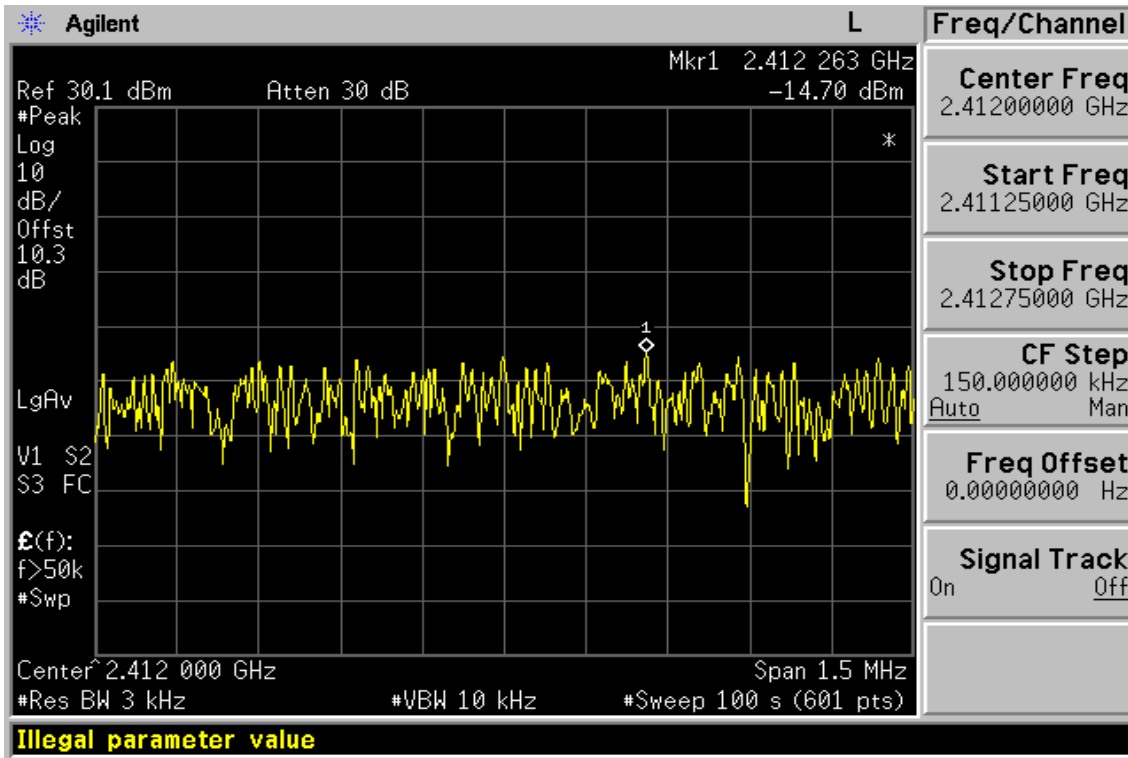
### Power Spectral Density Test Plot (CH-High)



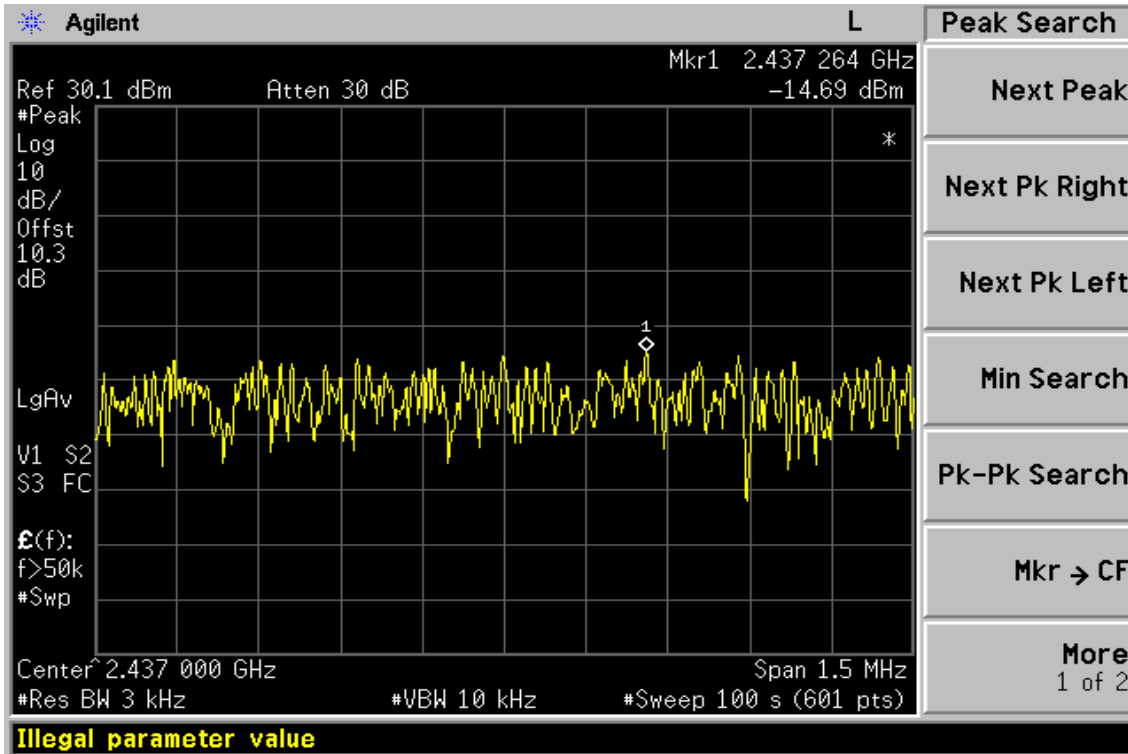
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### 802.11b, 11M Power Spectral Density Test Plot (CH-Low)

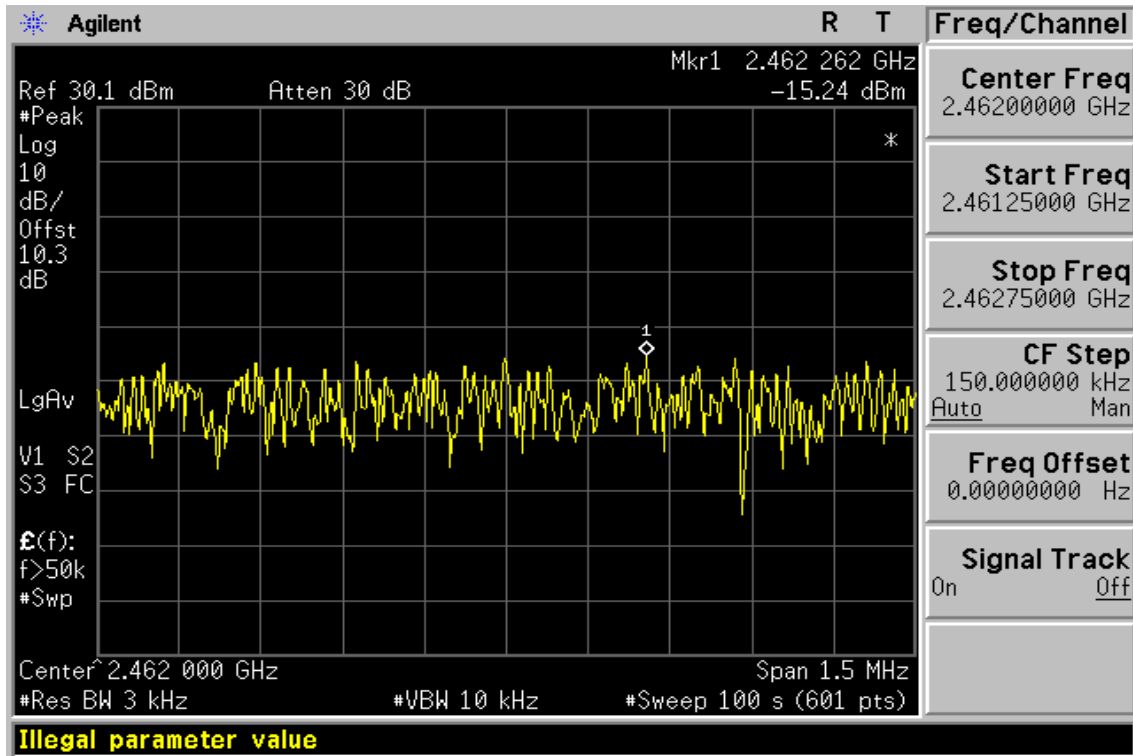


### Power Spectral Density Test Plot (CH-Mid)



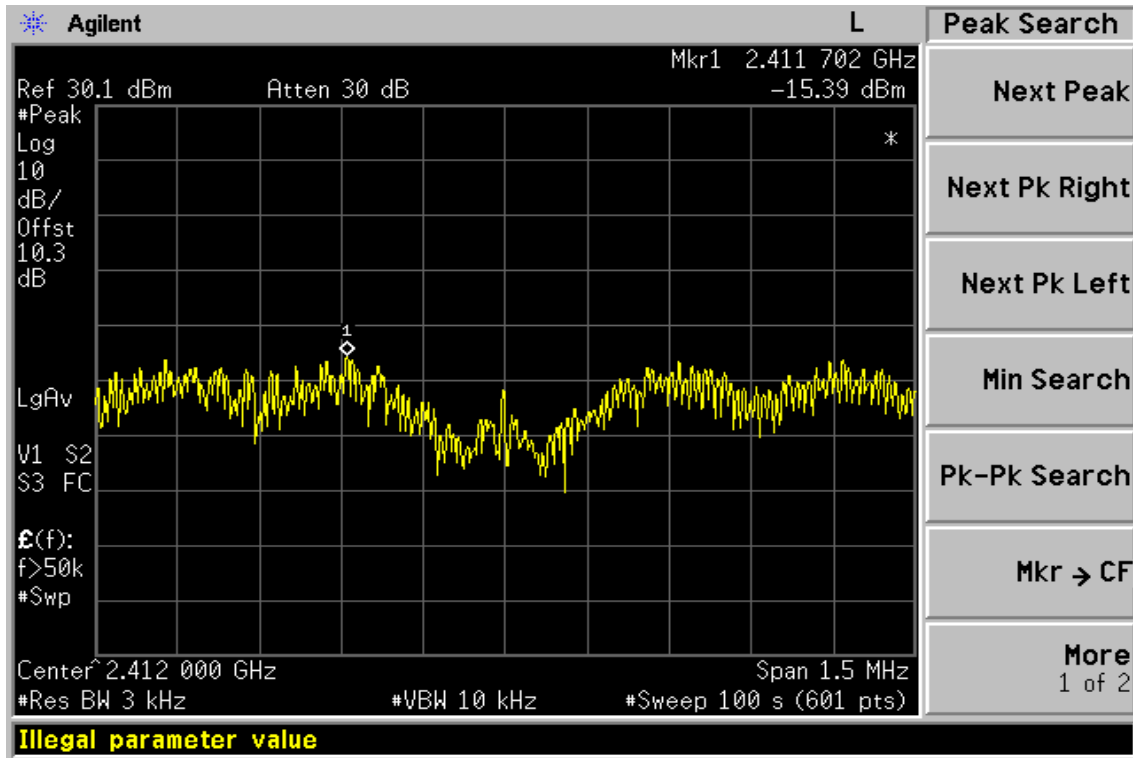
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### Power Spectral Density Test Plot (CH-High)

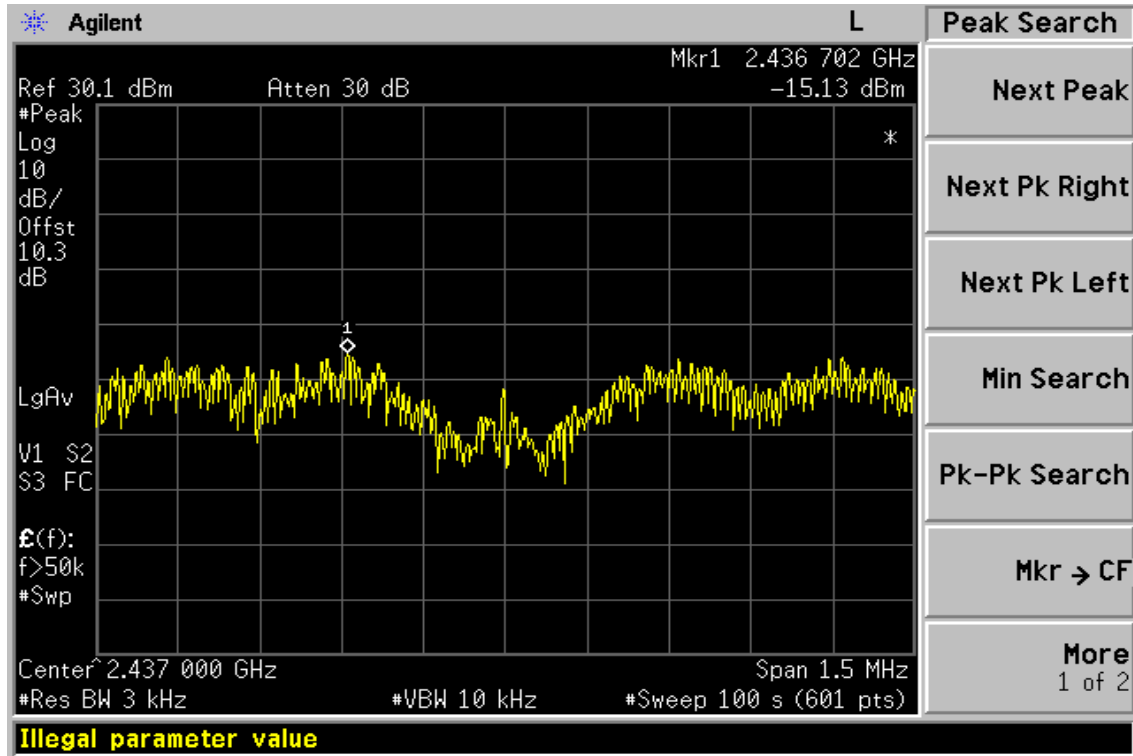


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### 802.11g, 54M Power Spectral Density Test Plot (CH-Low)

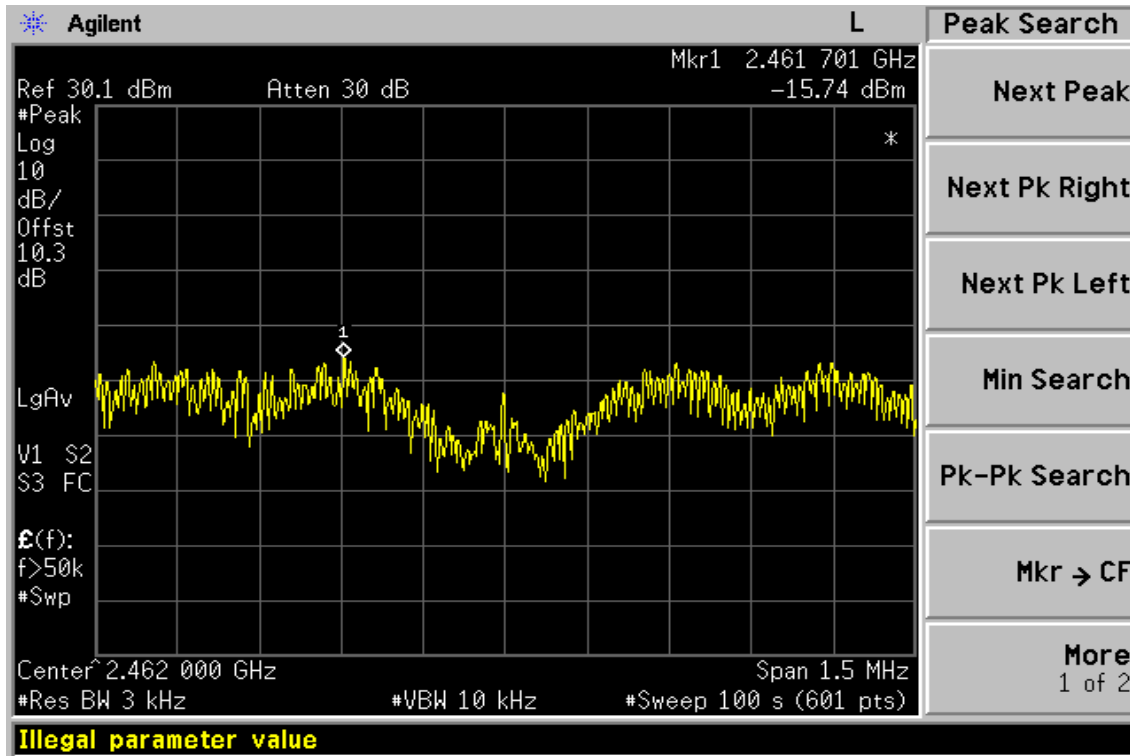


### Power Spectral Density Test Plot (CH-Mid)



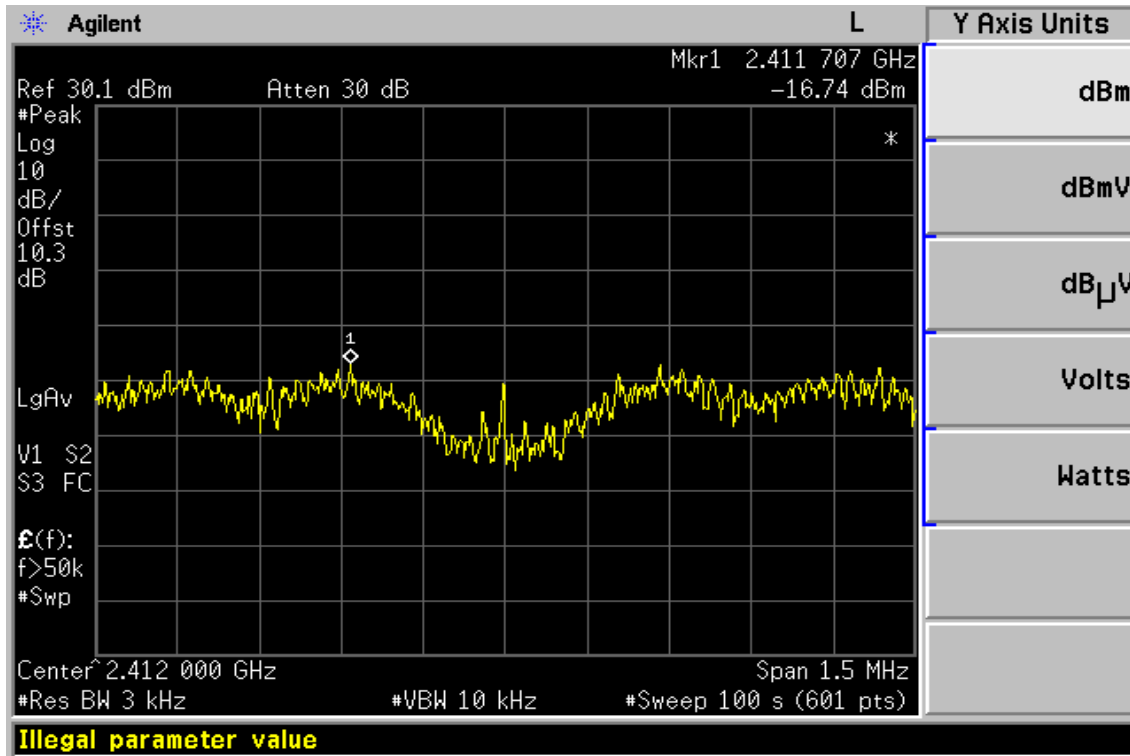
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### Power Spectral Density Test Plot (CH-High)

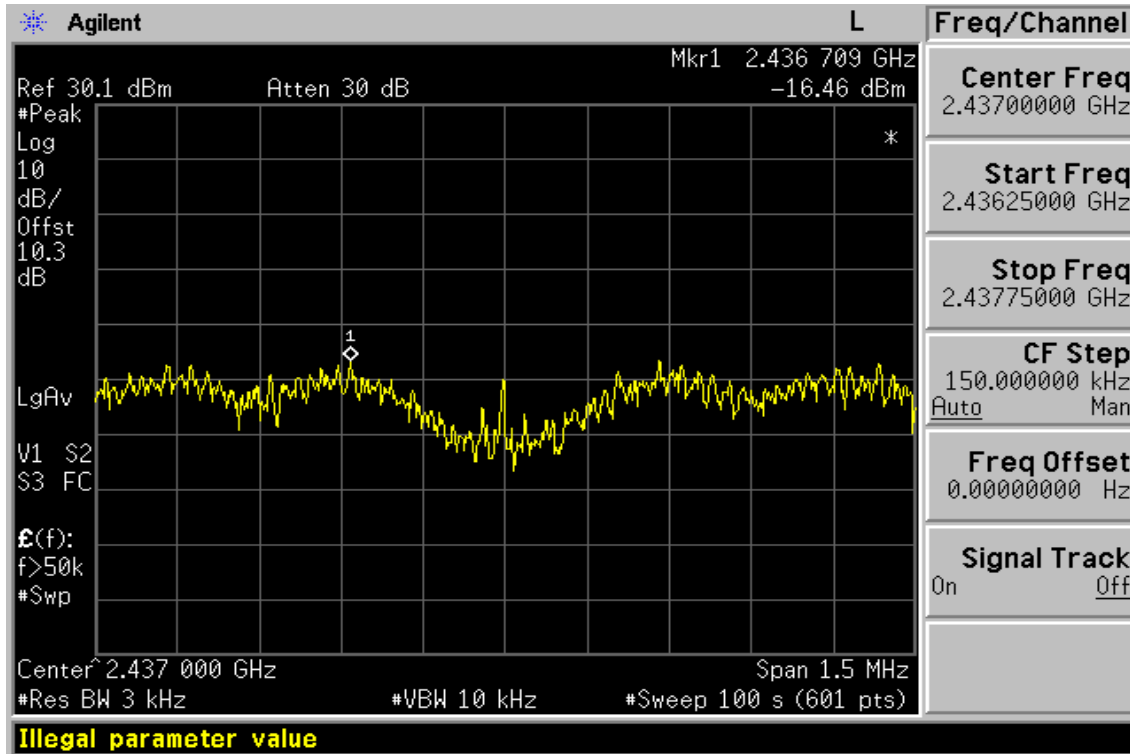


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### 802.11n\_20M, 65M Power Spectral Density Test Plot (CH-Low)

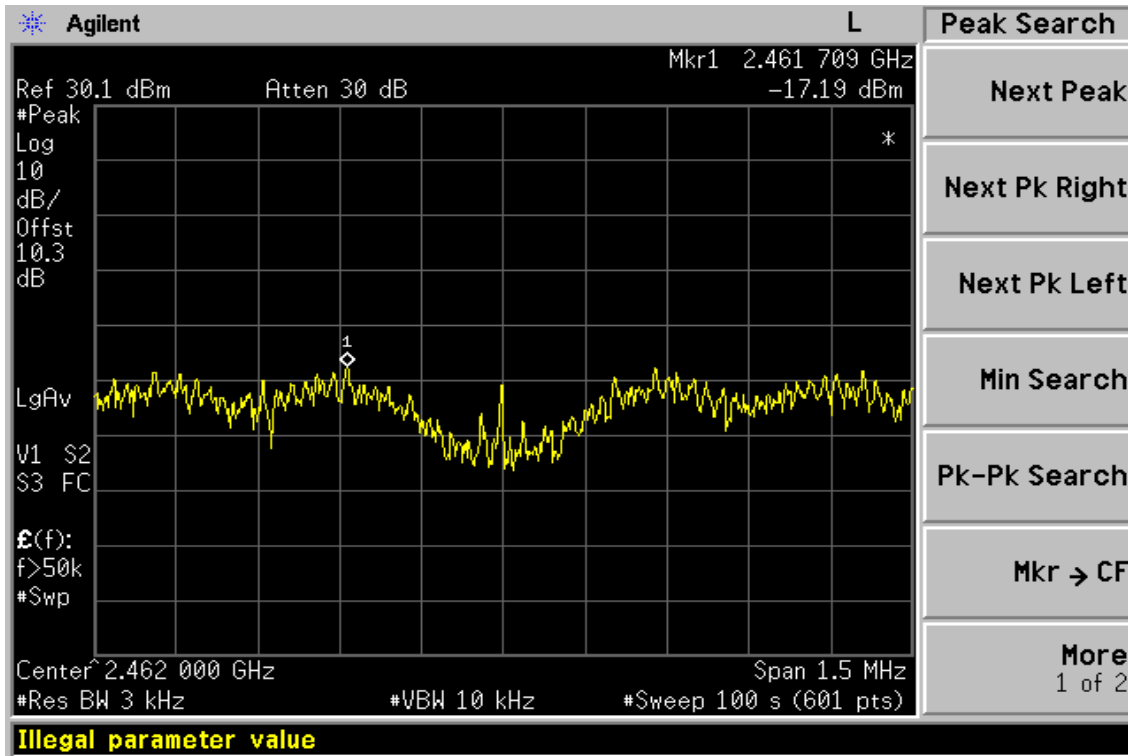


### Power Spectral Density Test Plot (CH-Mid)



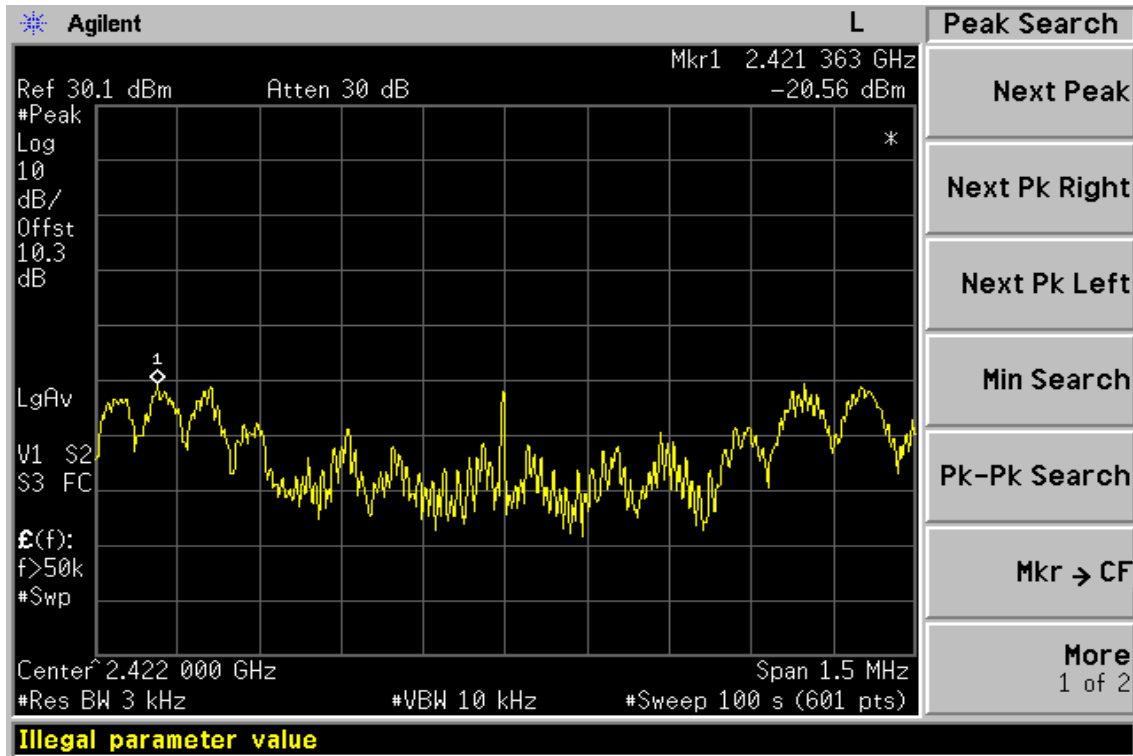
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### Power Spectral Density Test Plot (CH-High)

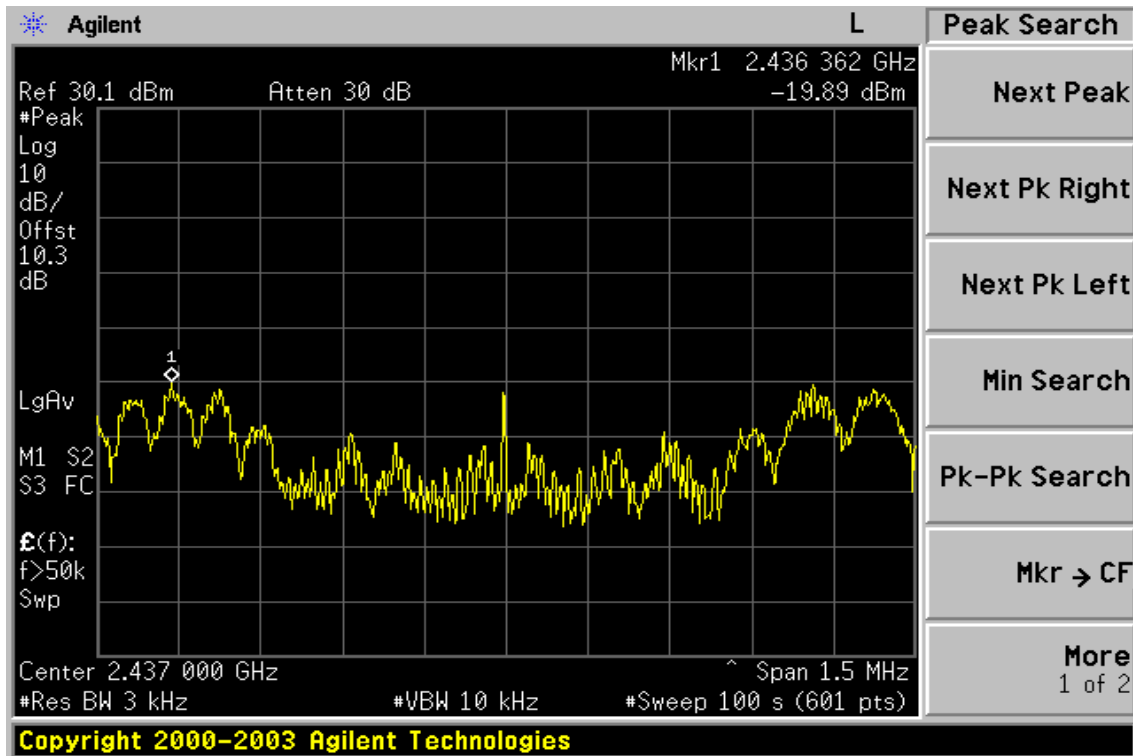


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### 802.11n\_40M, 65M Power Spectral Density Test Plot (CH-Low)

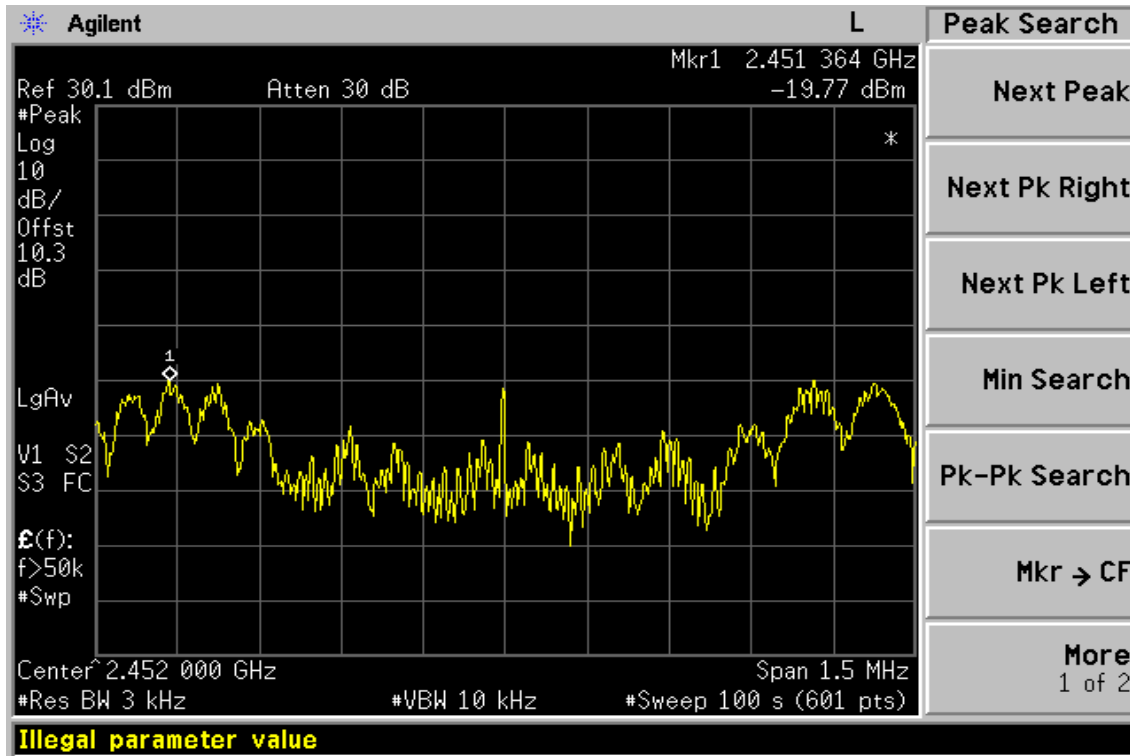


### Power Spectral Density Test Plot (CH-Mid)



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### Power Spectral Density Test Plot (CH-High)



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## 11. 99% Bandwidth Measurement

### 11.1 Standard Applicable

RSS-Gen , section 4.4.1, An alternative to the 20 dB bandwidth is the 99% emission bandwidth. This bandwidth is determined such that below the lower and above the upper frequency limits, the mean powers emitted are each equal to 0.5% of the total mean power of the emission.

### 11.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2007	03/28/2008
Spectrum Analyzer	Agilent	7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Agilent	ZFSC-2-10G	N/A	10/07/2006	10/06/2007

### 11.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=1% of the approximate emission bandwidth, VBW = 3 times RBW, Span= approximately 20dB below the peak level. Sweep=auto
4. Turn on the 99% bandwidth function, max reading..
5. Repeat above procedures until all frequency measured were complete.

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## 11.4 Measurement Result

### 802.11b, 1M

CH	Bandwidth (MHz)
Lower	14.9885
Mid	14.7734
Higher	15.3134

### 802.11g, 6M

CH	Bandwidth (MHz)
Lower	16.3660
Mid	16.4379
Higher	16.4026

### 802.11n\_20M, 6.5M

CH	Bandwidth (MHz)
Lower	17.6296
Mid	17.5393
Higher	17.5461

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**802.11n\_40M, 6.5M**

CH	Bandwidth (MHz)
Lower	36.0966
Mid	35.9027
Higher	36.0523

**802.11b, 11M**

CH	Bandwidth (MHz)
Lower	14.5012
Mid	14.9306
Higher	15.2994

**802.11g, 54M**

CH	Bandwidth (MHz)
Lower	16.3289
Mid	16.3601
Higher	16.5040

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**802.11n\_20M, 65M**

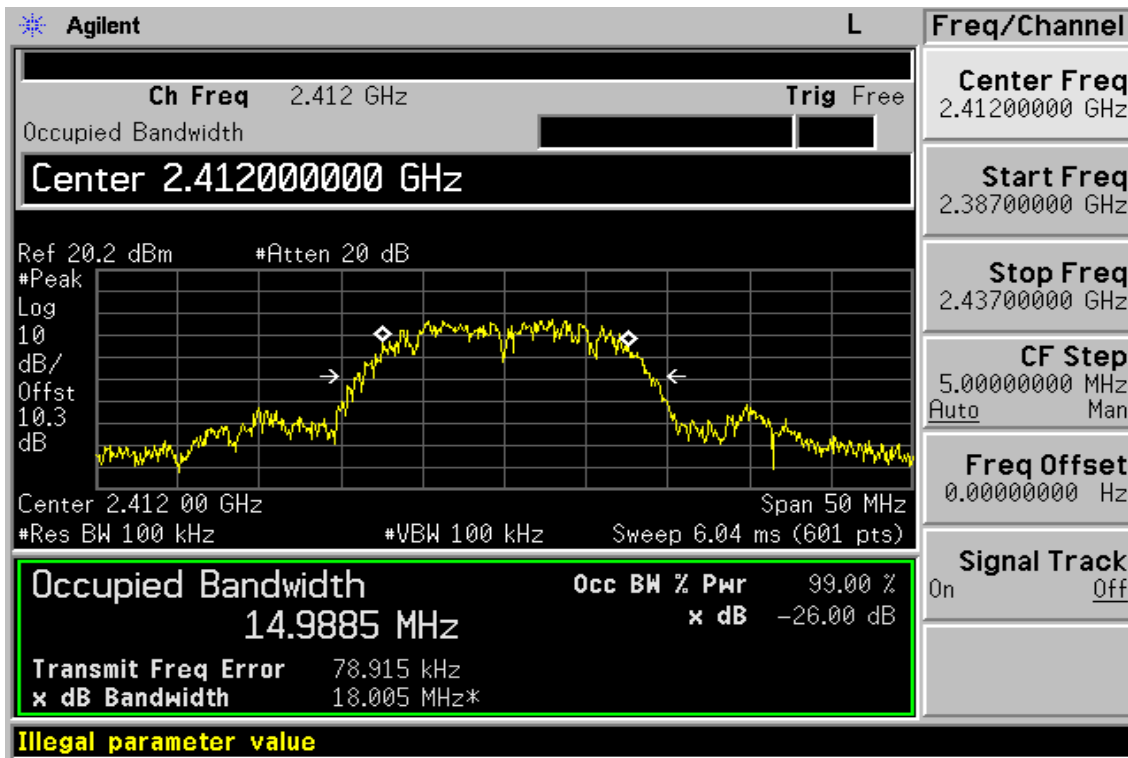
<b>CH</b>	<b>Bandwidth (MHz)</b>
<b>Lower</b>	17.5909
<b>Mid</b>	17.6261
<b>Higher</b>	17.5293

**802.11n\_40M,65M**

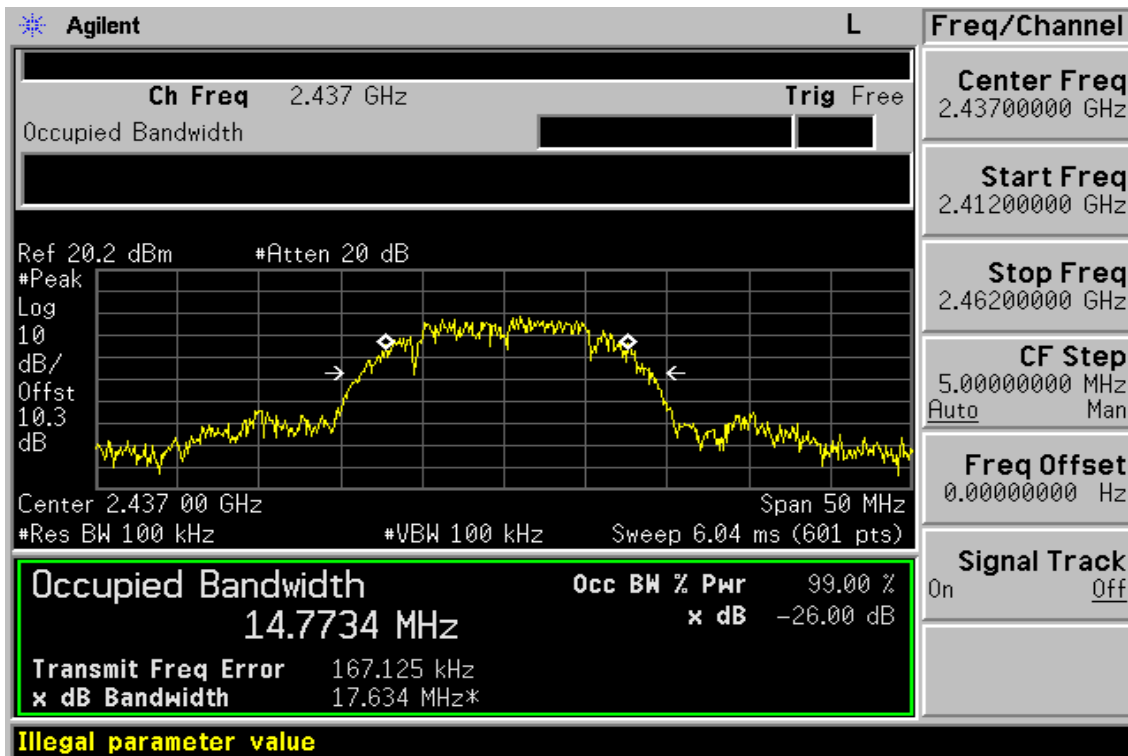
<b>CH</b>	<b>Bandwidth (MHz)</b>
<b>Lower</b>	35.8271
<b>Mid</b>	36.1690
<b>Higher</b>	35.7625

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### 802.11b, 1M 99% Band Width Test Data CH-Low

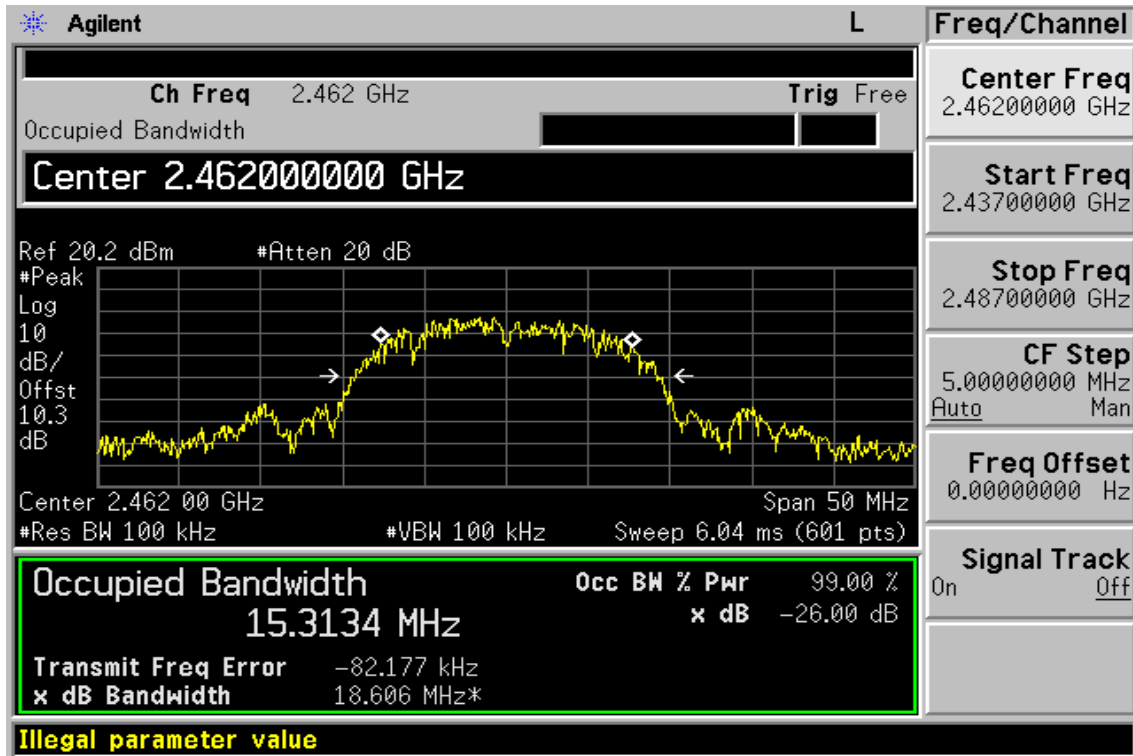


### 99% Band Width Test Data CH-Mid



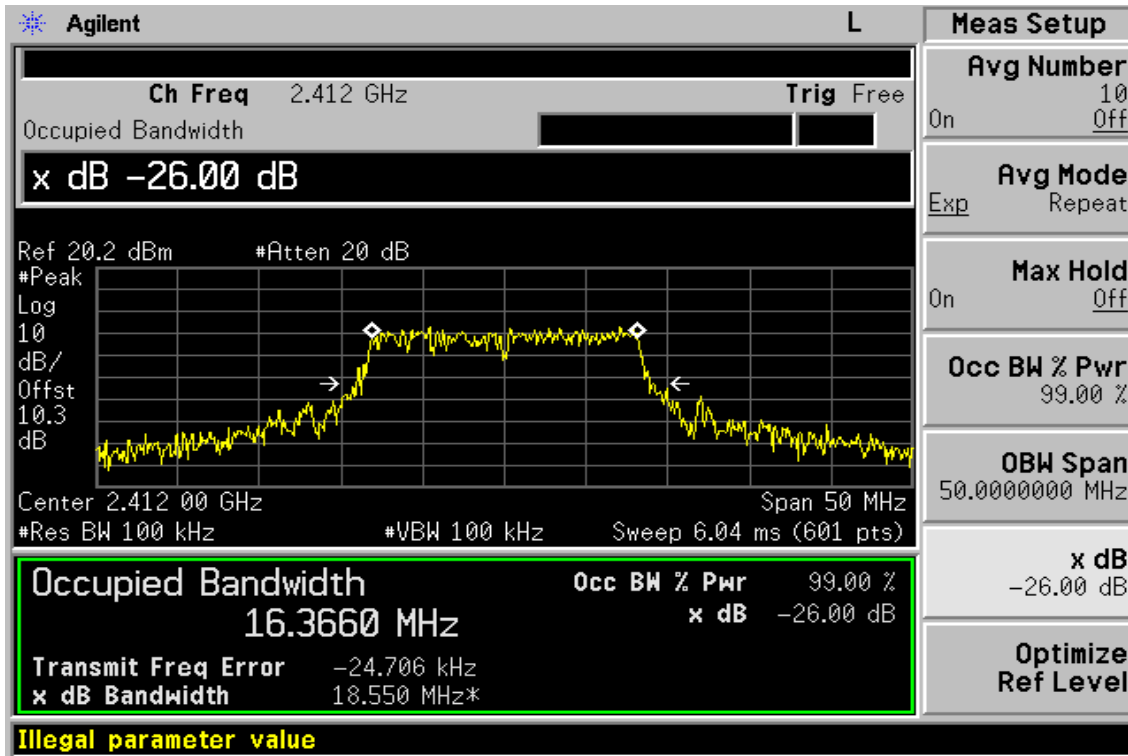
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### 99% Band Width Test Data CH-High

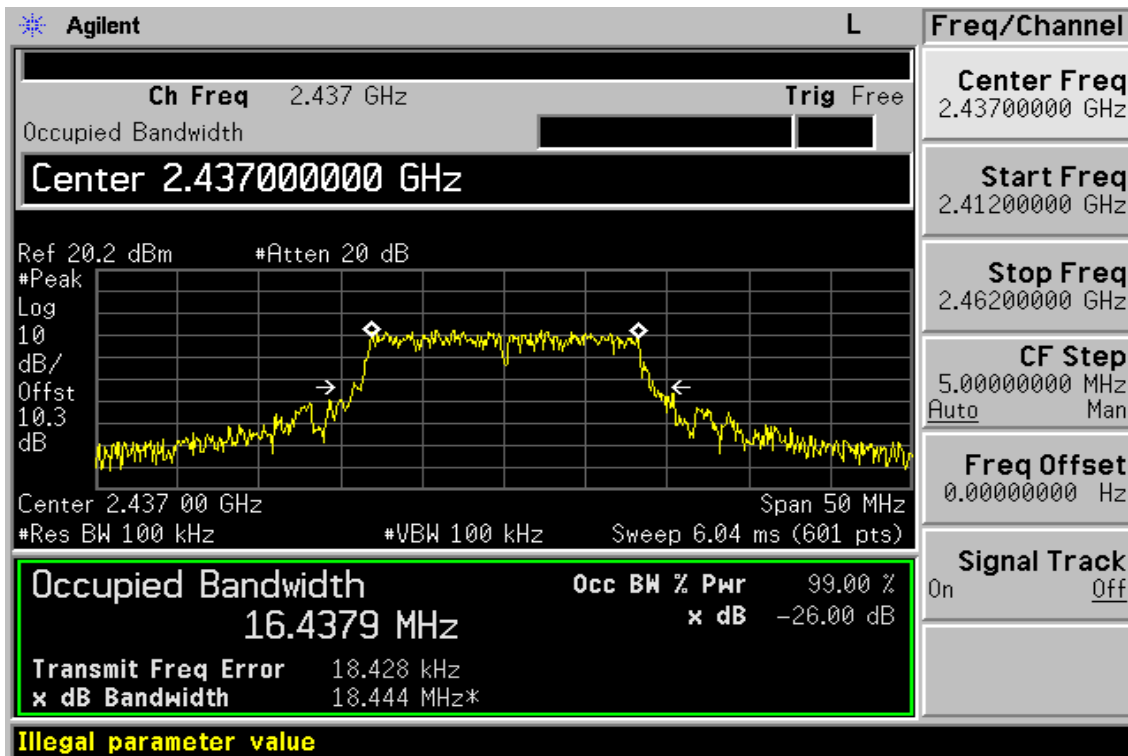


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### 802.11g, 6M 99% Band Width Test Data CH-Low

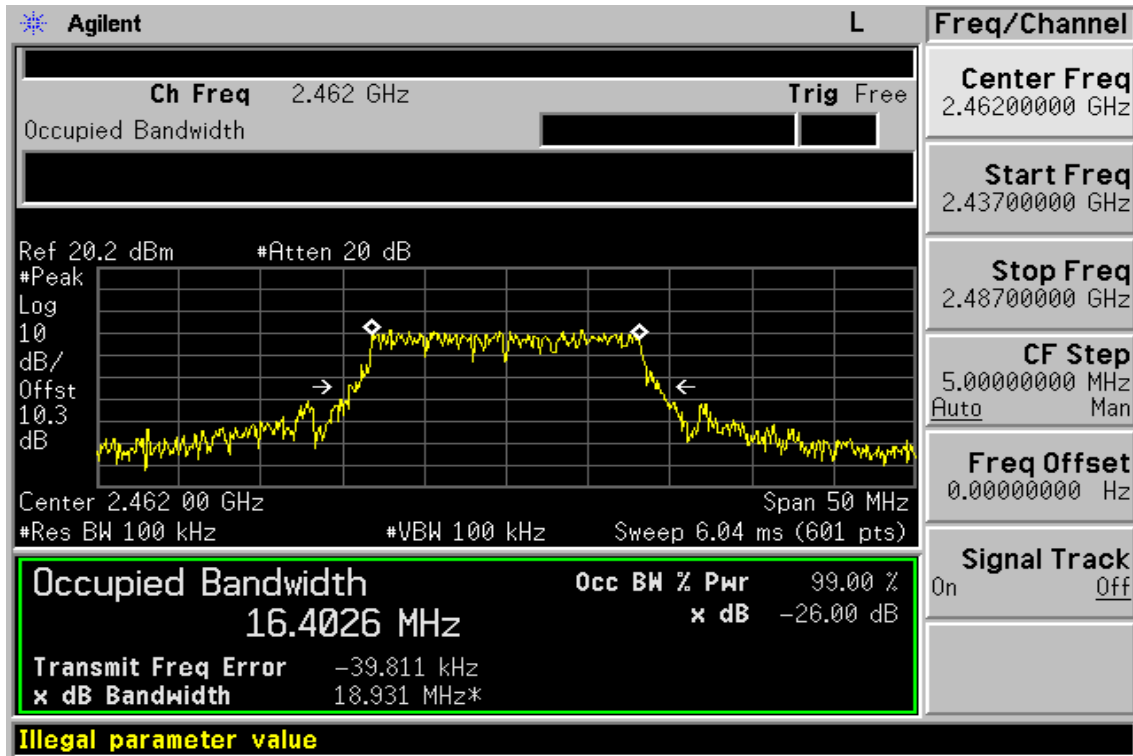


### 99% Band Width Test Data CH-Mid



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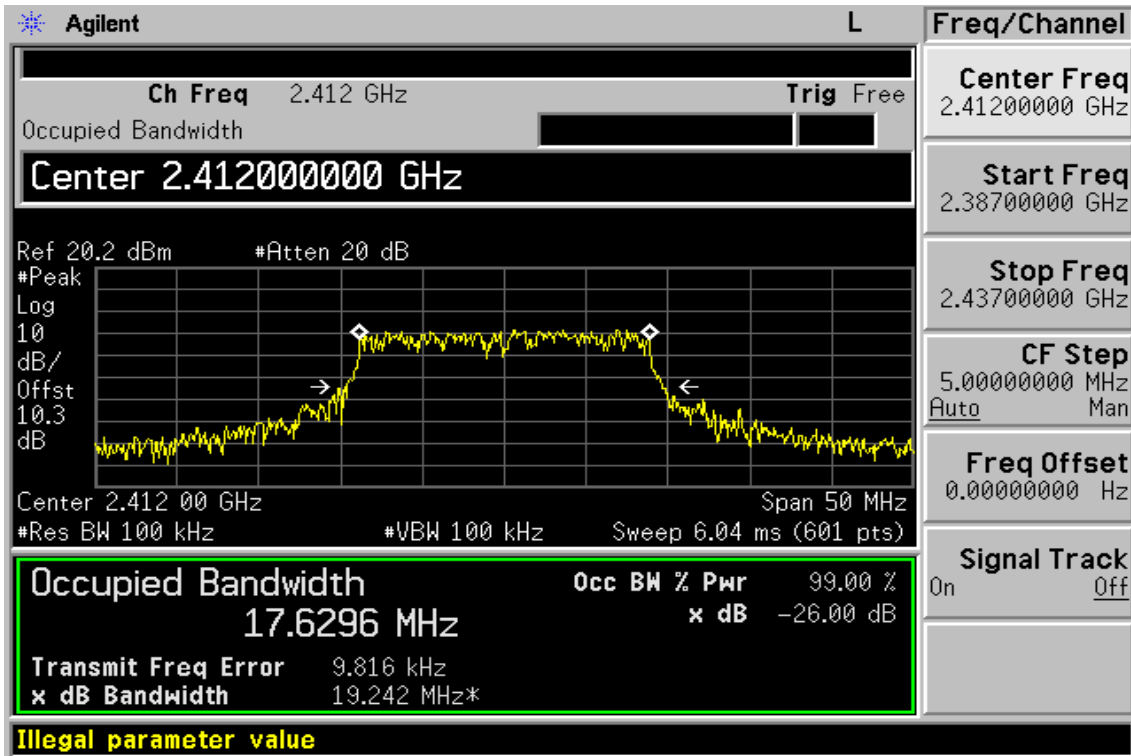
### 99% Band Width Test Data CH-High



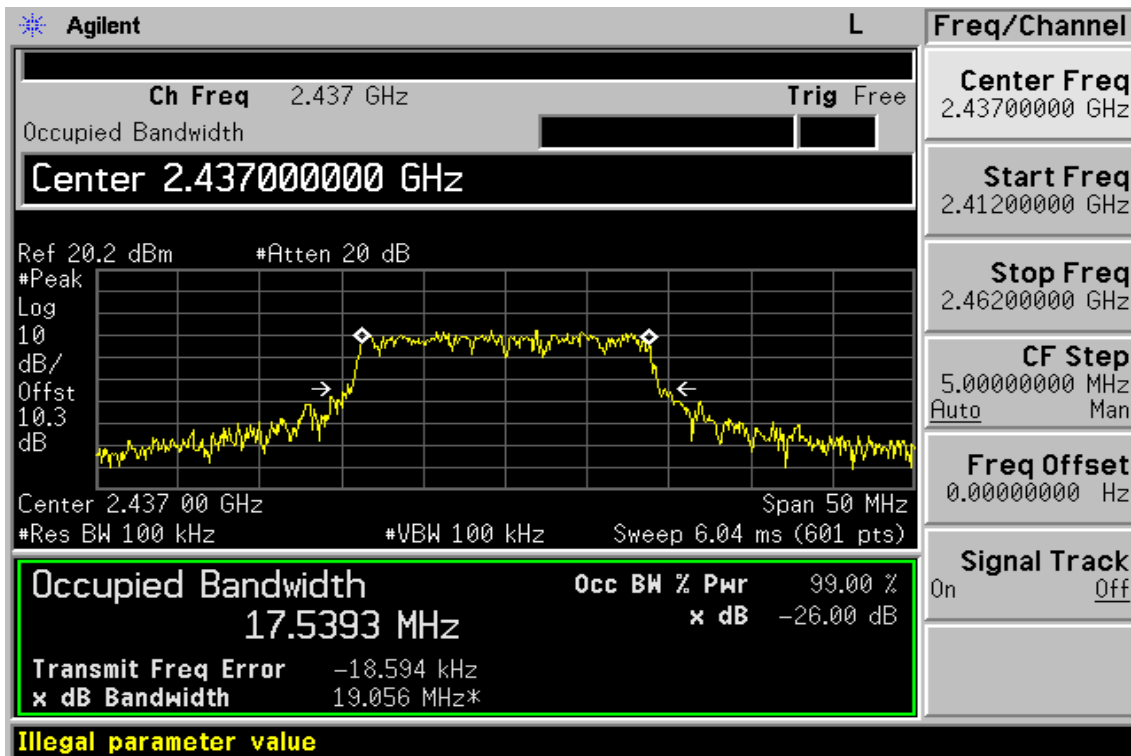
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### 802.11n\_20M, 6.5M 99% Band Width Test Data CH-Low

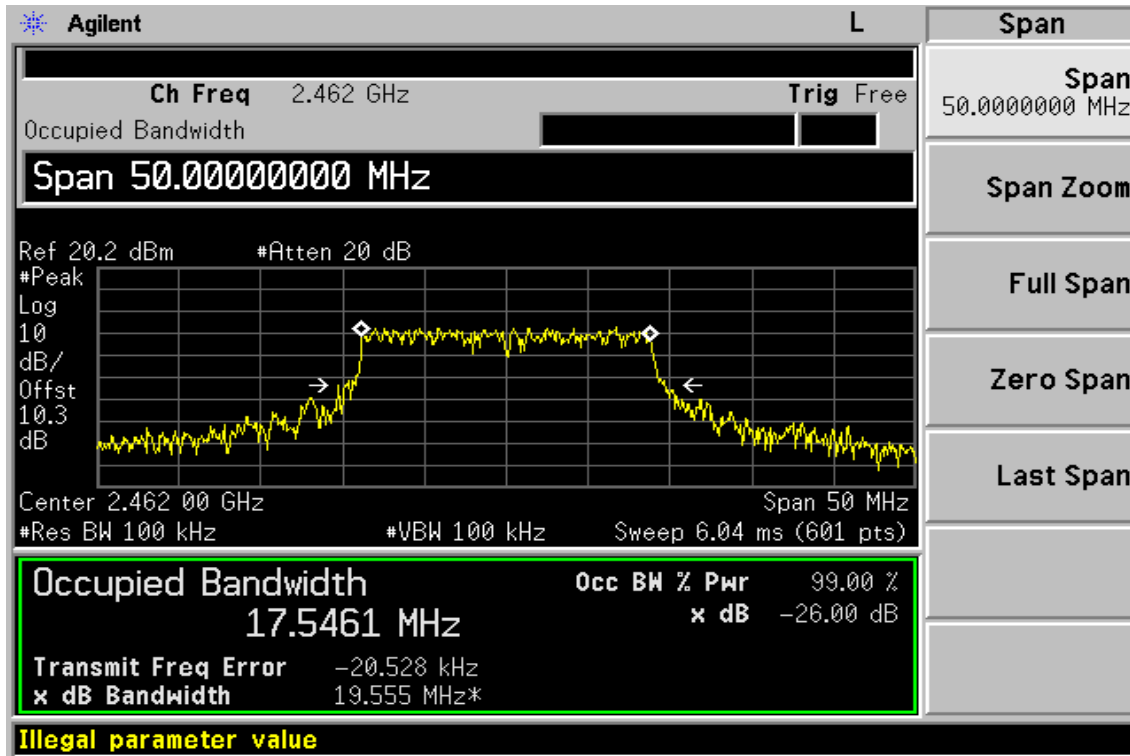


### 99% Band Width Test Data CH-Mid



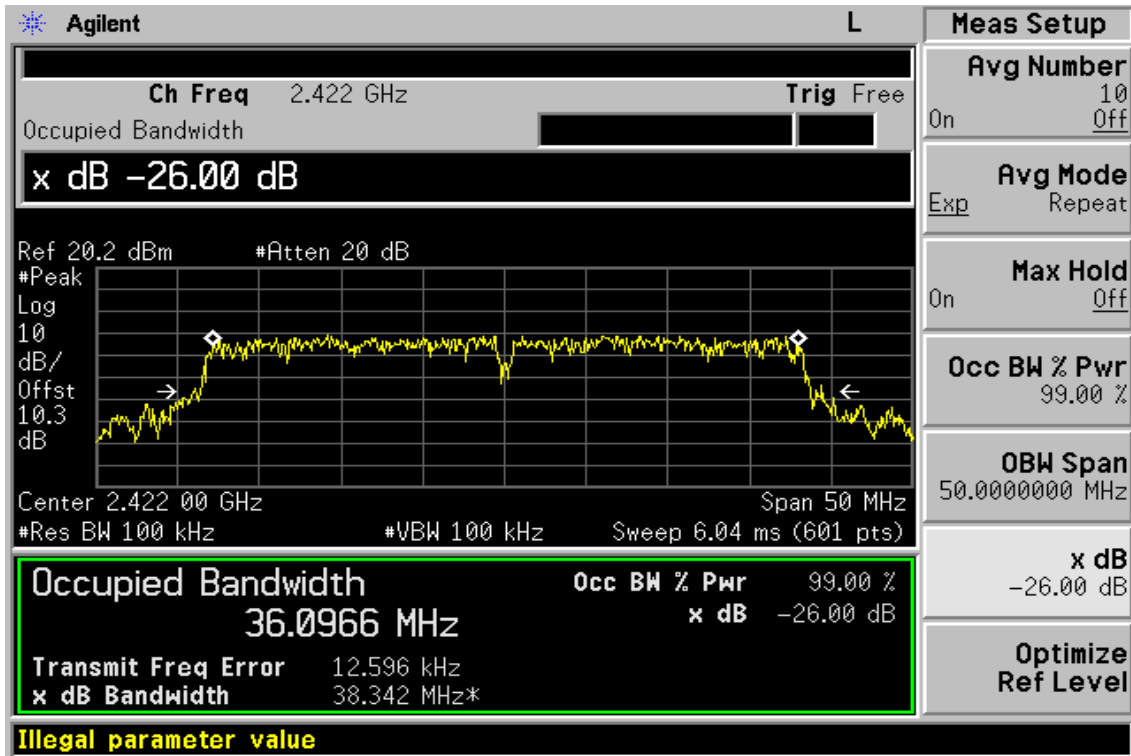
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## 99% Band Width Test Data CH-High

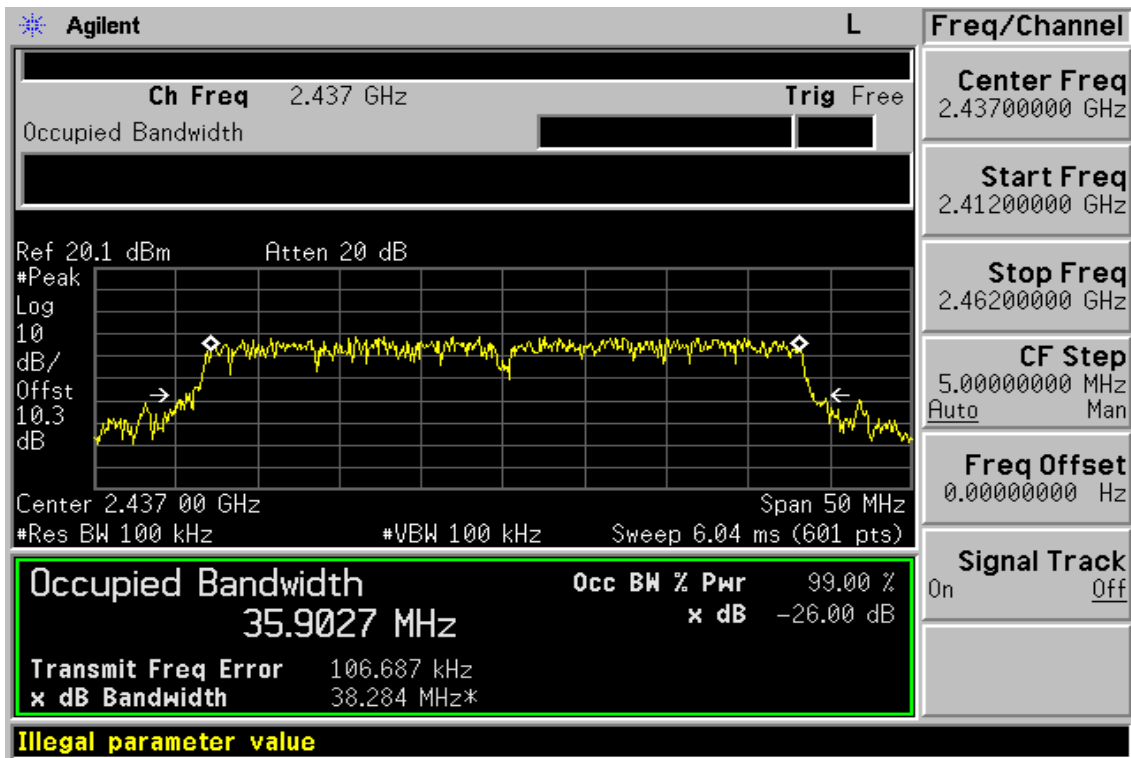


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### 802.11n\_40M, 6.5M 99% Band Width Test Data CH-Low

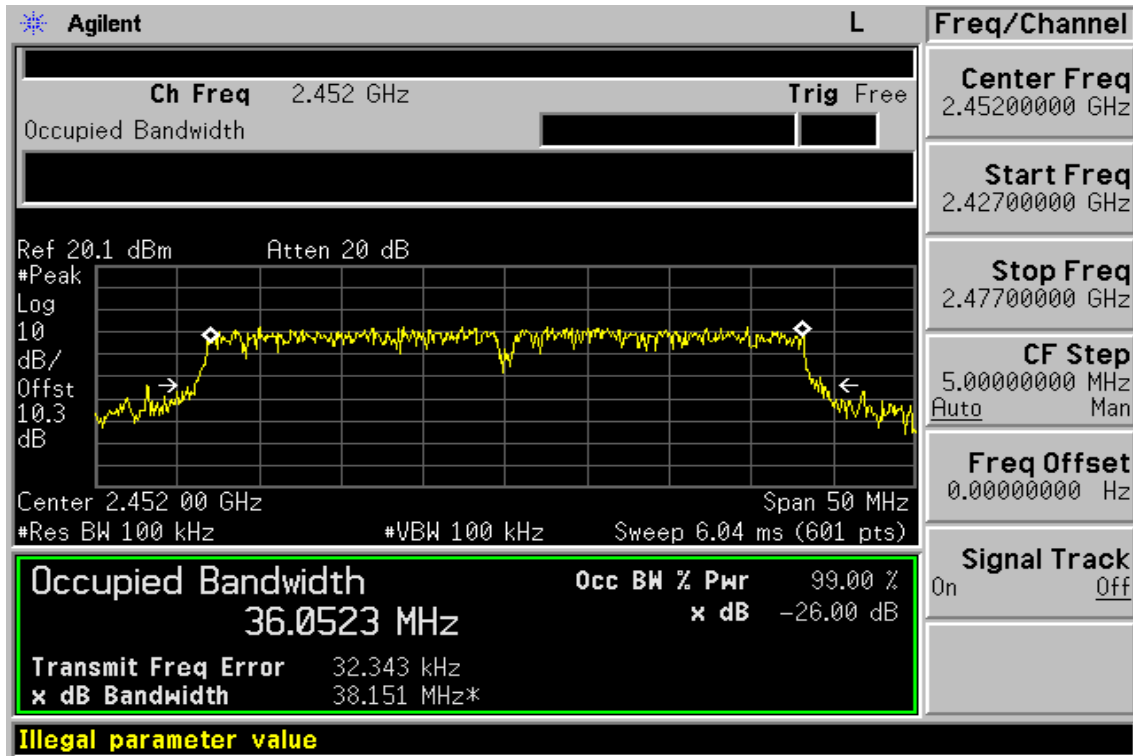


### 99% Band Width Test Data CH-Mid



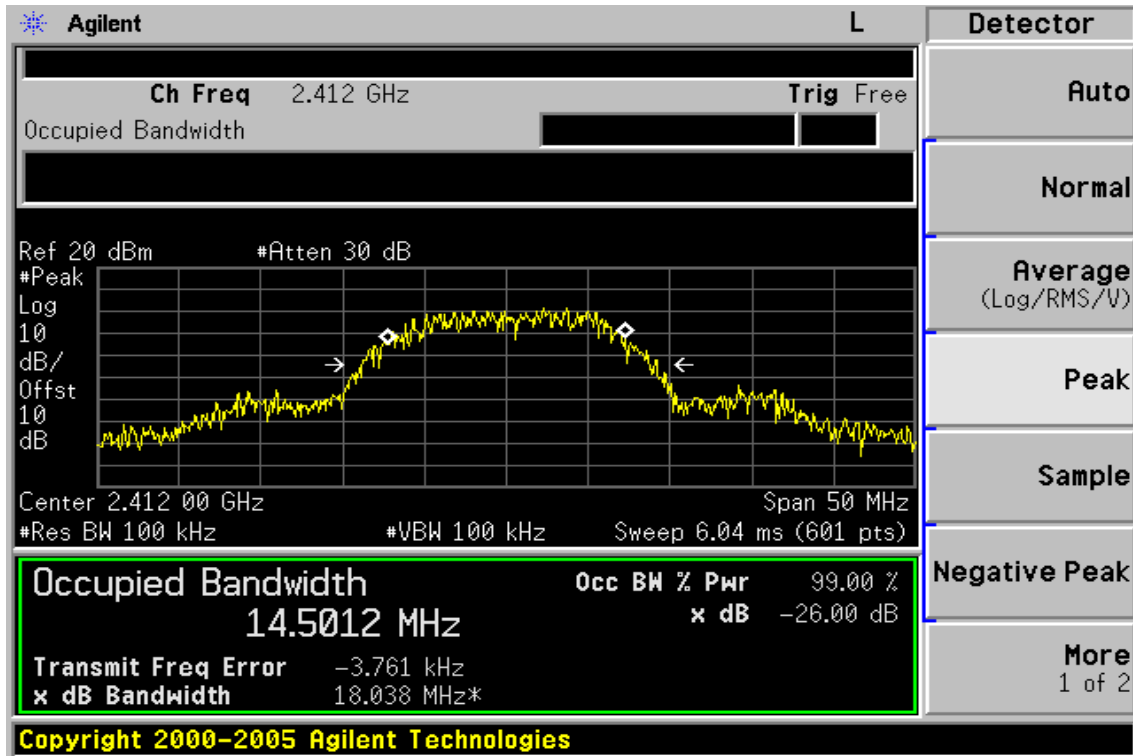
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### 99% Band Width Test Data CH-High

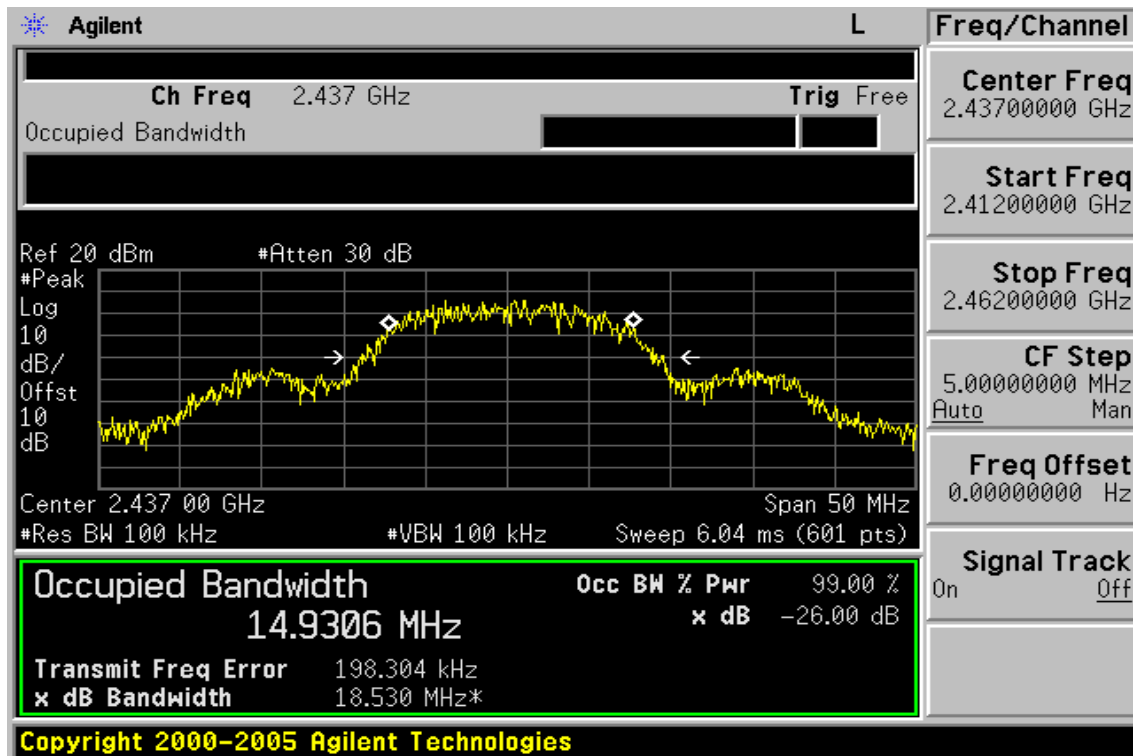


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### 802.11b, 11M 99% Band Width Test Data CH-Low

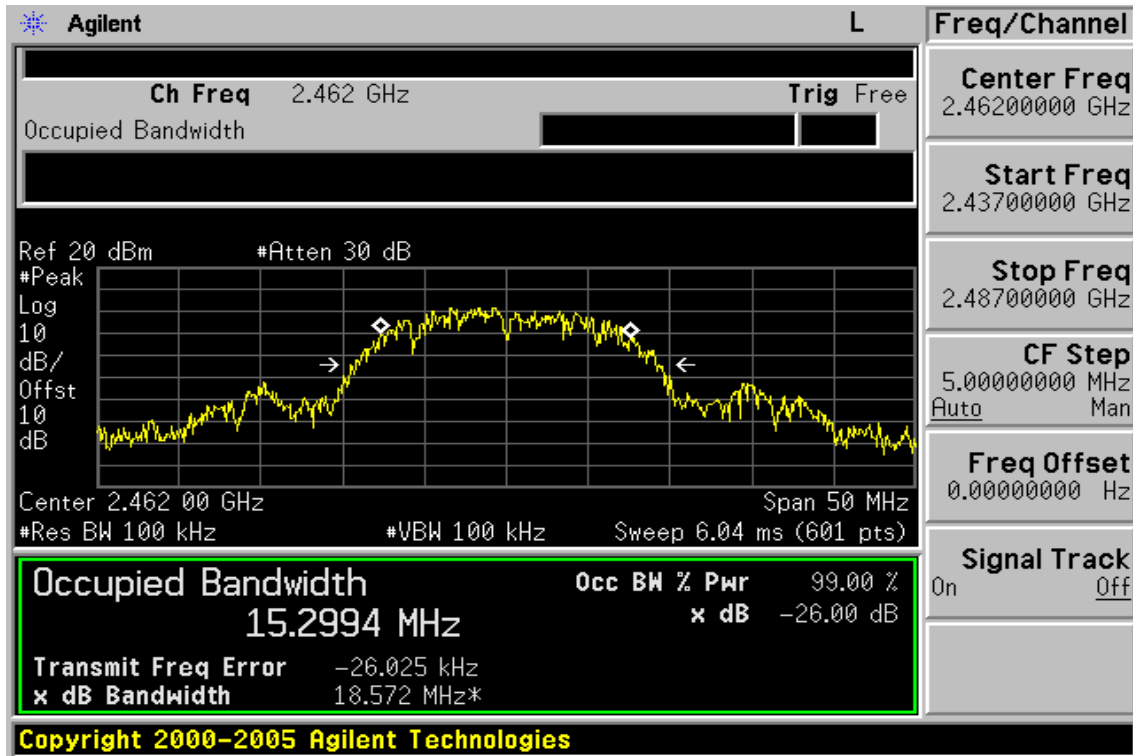


### 99% Band Width Test Data CH-Mid



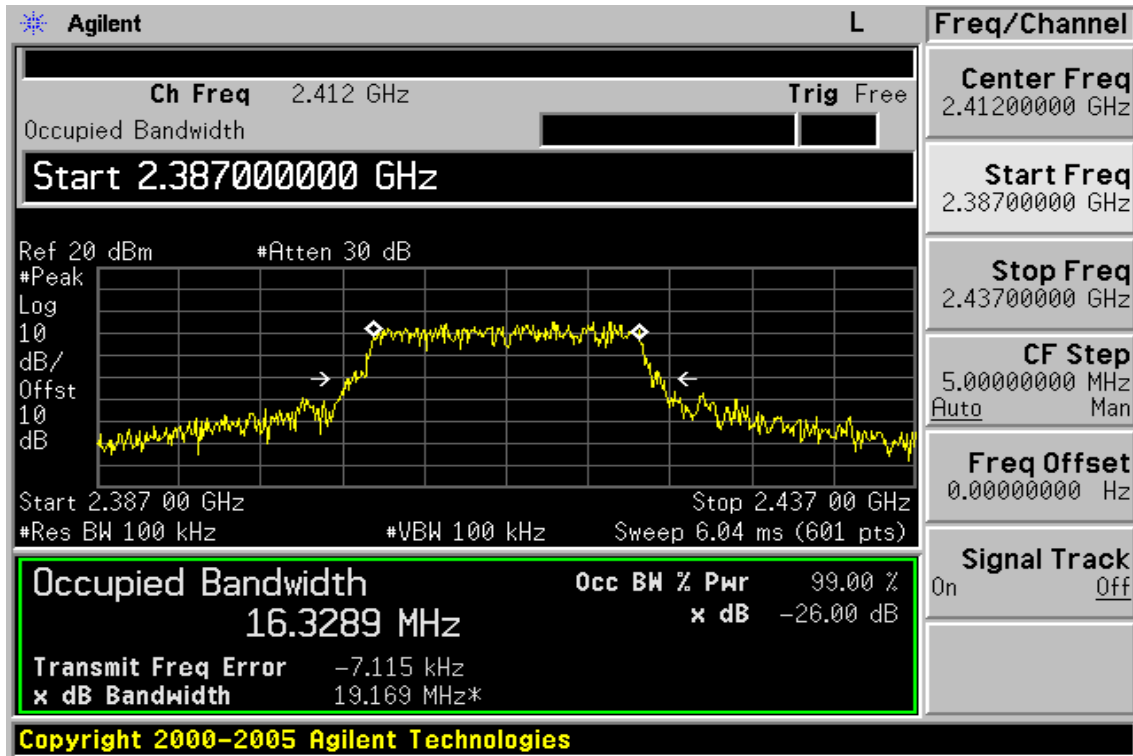
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### 99% Band Width Test Data CH-High

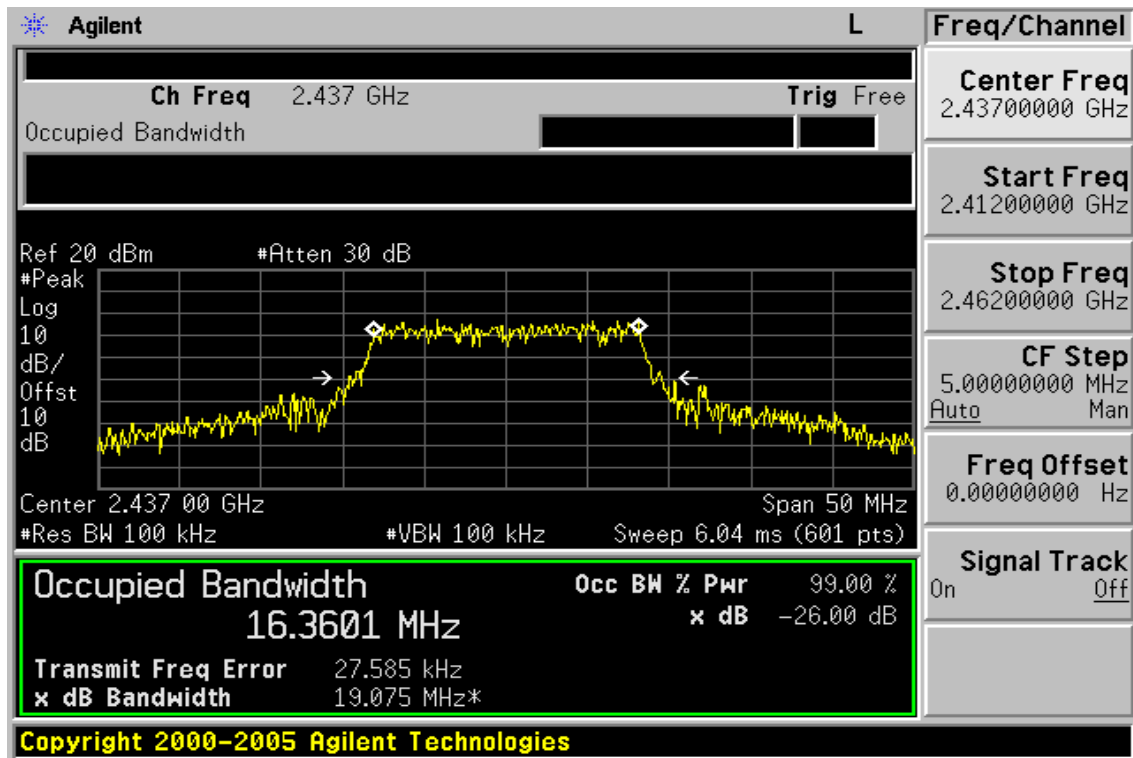


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### 802.11g, 54M 99% Band Width Test Data CH-Low

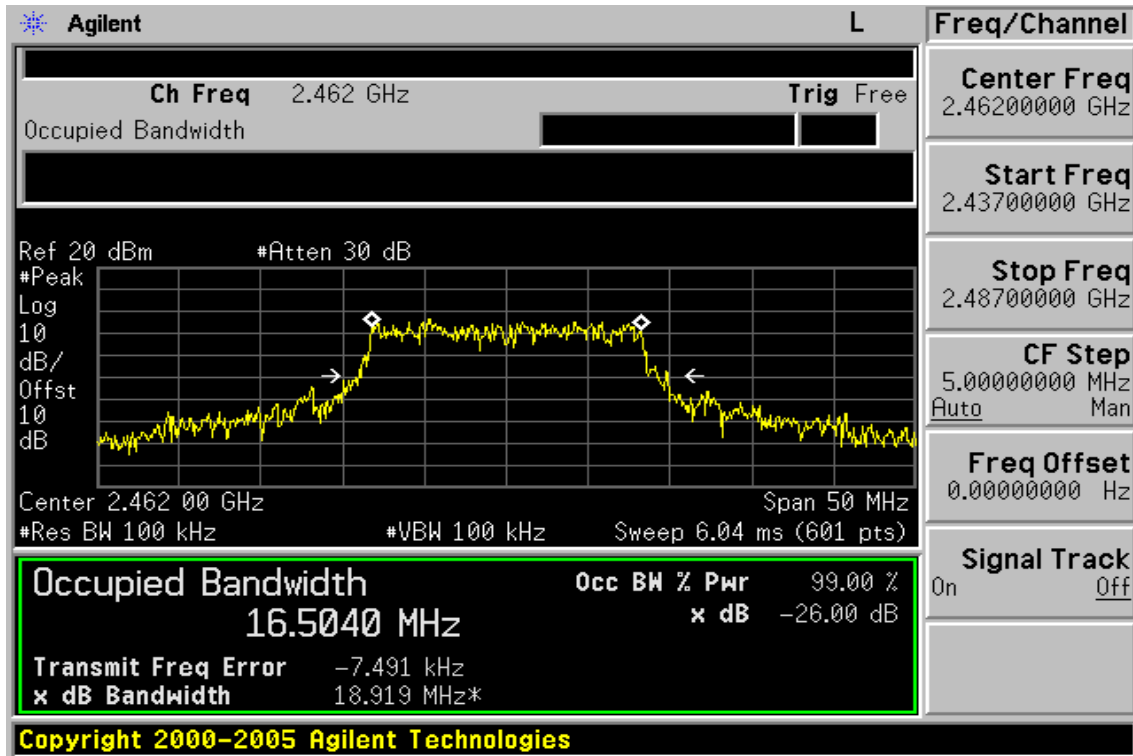


### 99% Band Width Test Data CH-Mid



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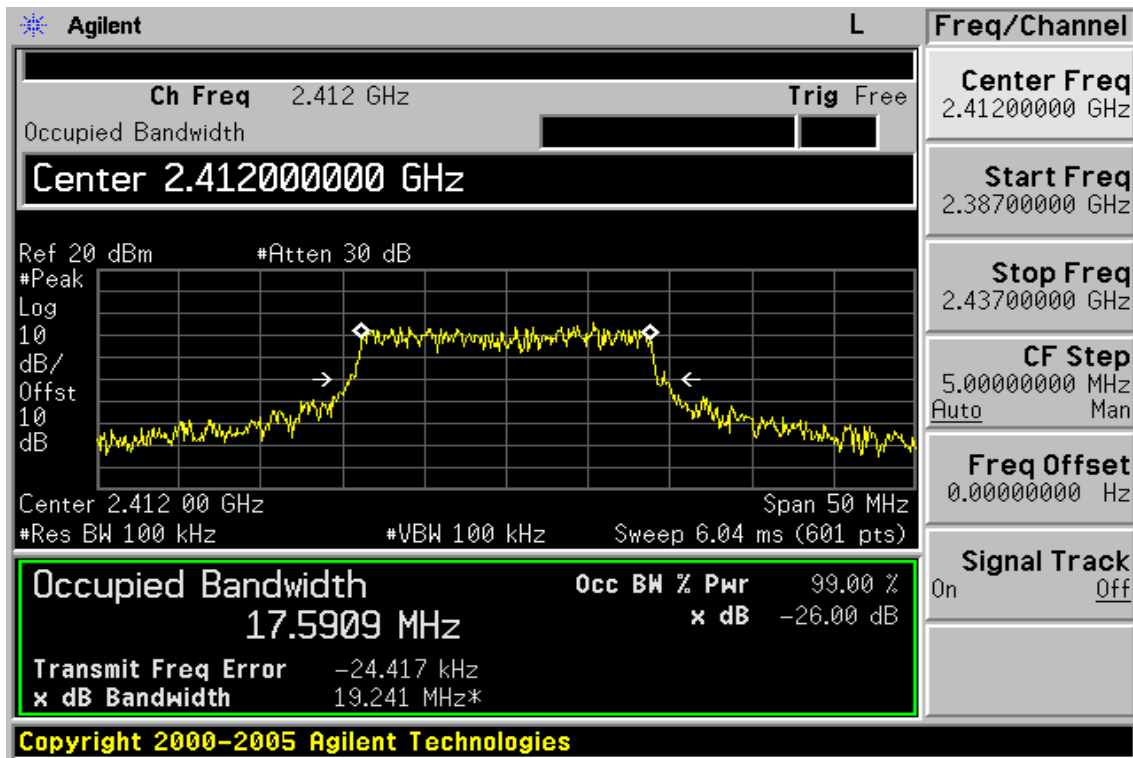
### 99% Band Width Test Data CH-High



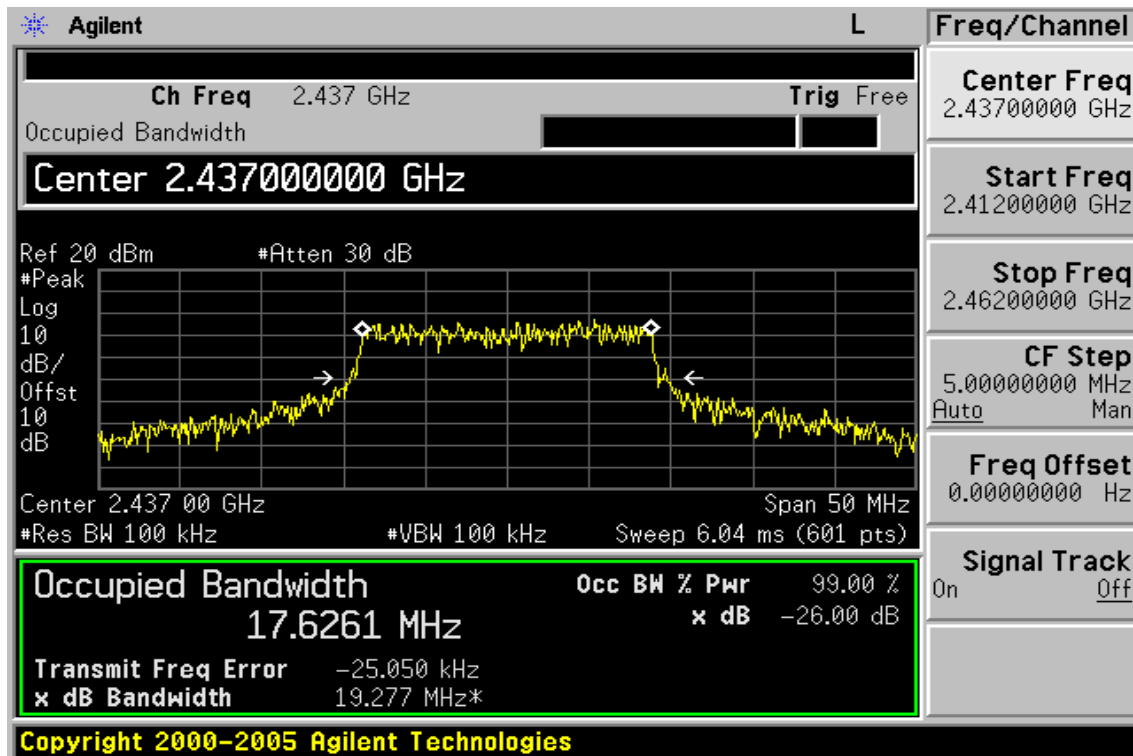
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### 802.11n\_20M, 65M 99% Band Width Test Data CH-Low

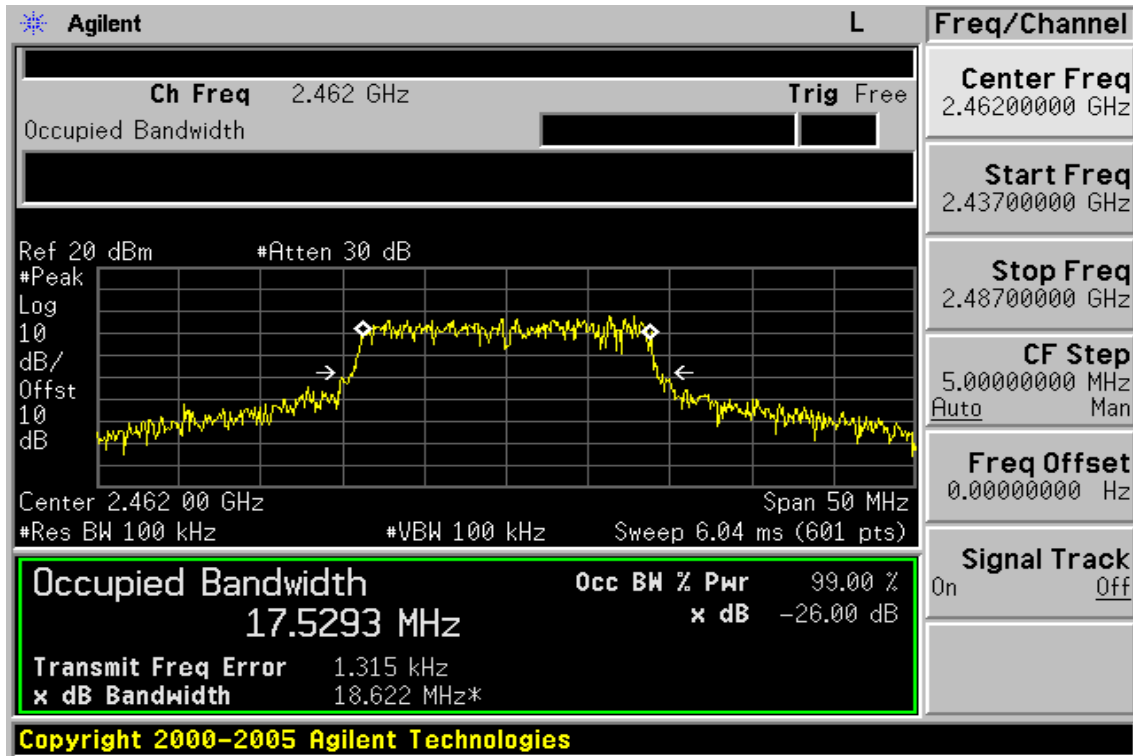


### 99% Band Width Test Data CH-Mid



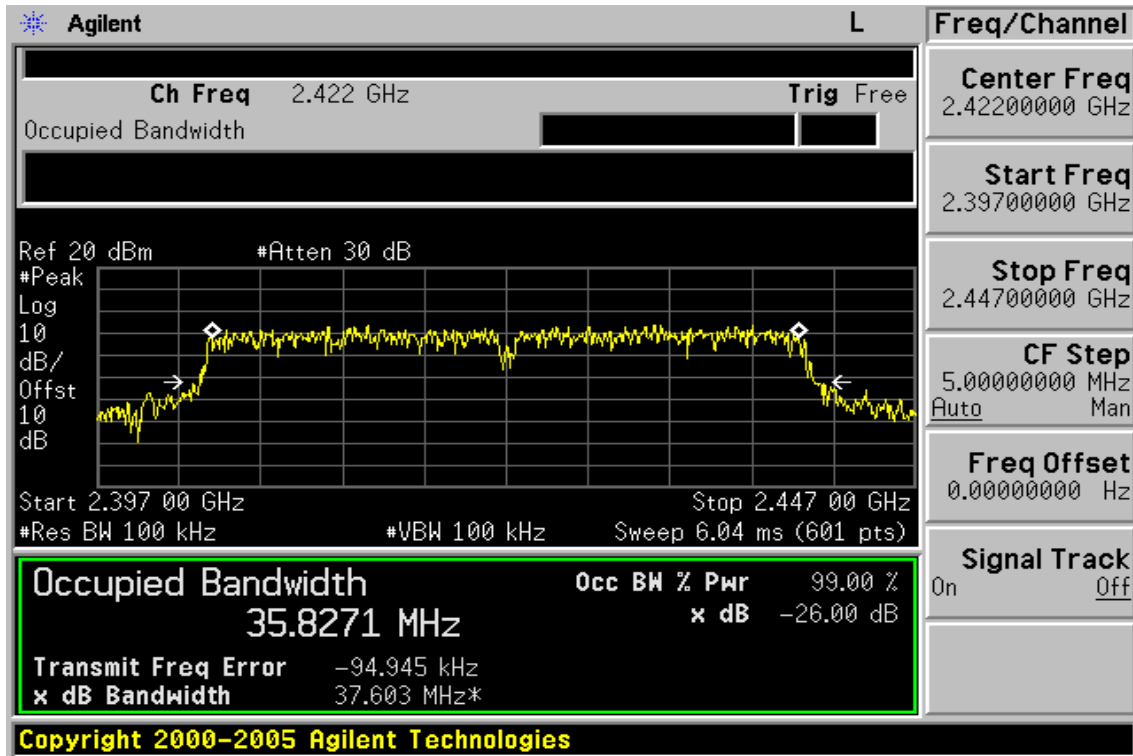
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### 99% Band Width Test Data CH-High

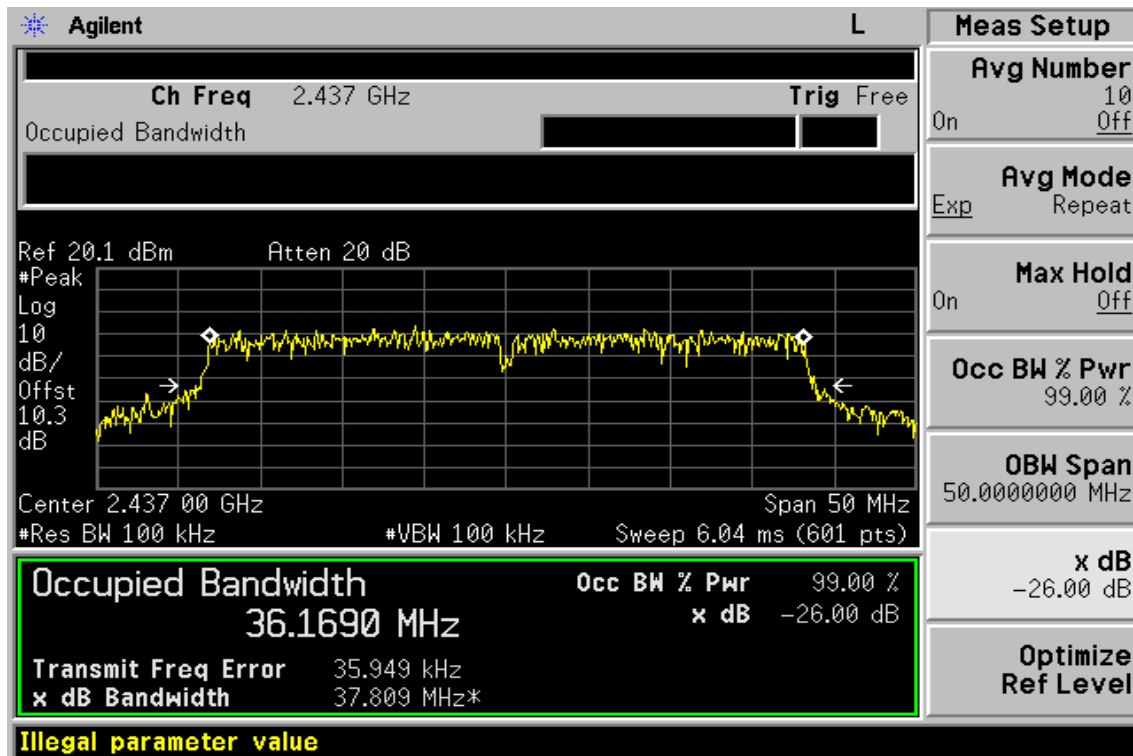


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### 802.11n\_40M, 65M 99% Band Width Test Data CH-Low

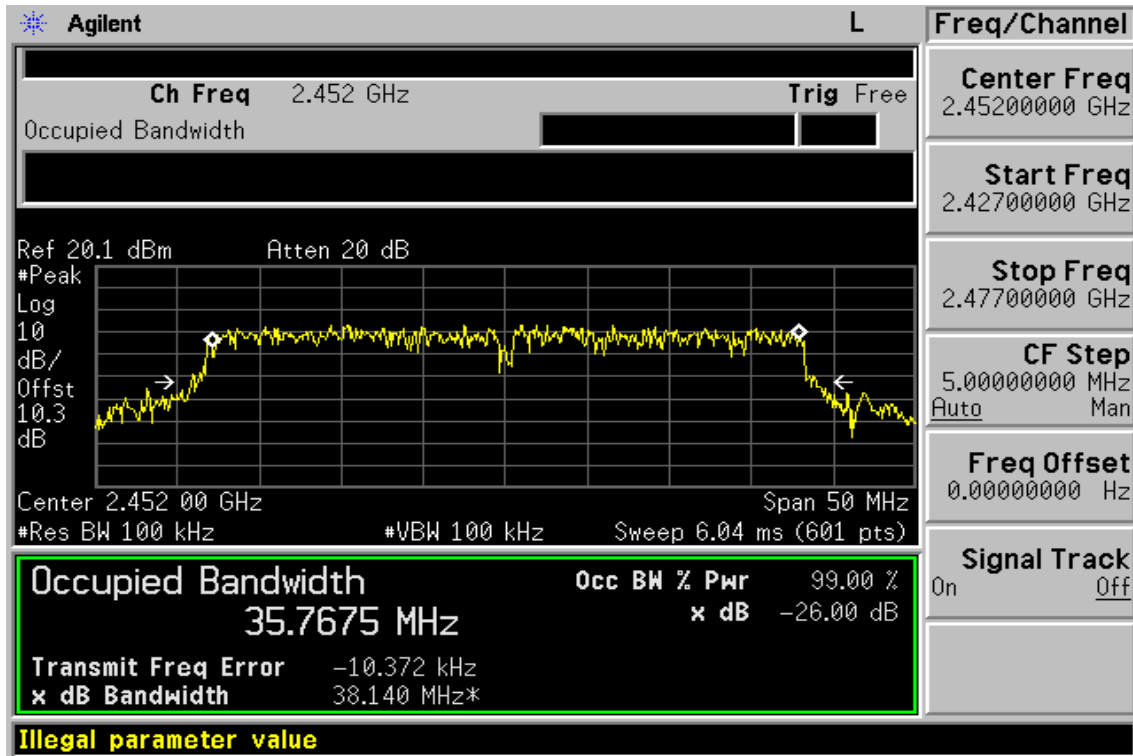


### 99% Band Width Test Data CH-Mid



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### 99% Band Width Test Data CH-High



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## 12. ANTENNA REQUIREMENT

### 12.1. Standard Applicable

According to §15.203, Antenna requirement.

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 shall be considered sufficient to comply with the provisions of this Section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

According to §RSS- 210, Annex 8.4: Note that special antenna connectors are required for spread spectrum systems (with respect to section 5.5.

section 5.5, The transmitter antenna shall be integral with the device, or the antenna coupling be so designed that no antenna other than that furnished by the party responsible for compliance shall be used.

**Example:** Special antenna connectors not readily available in retail shops in Canada may be acceptable. The antenna design may be such as to allow a broken antenna to be replaced by the user, but the use of a standard jack or electrical connector is prohibited. The special antenna connector requirement does not apply to 6.2.2 (a), 6.2.2 (b), and 8.1 to 8.5. Further, this requirement does not apply to transmitters that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to transmitters which require unwanted emission measurements after installation (section 5.15). In the installation/ **user manual**, the user shall be notified that a proper type of antenna must be employed and of the RF field limits to be met. When the standard limits the antenna gain to N dB, this limit applies only to the transmitting antenna system net gain, i.e. antenna gain minus its cabling loss.

When a measurement at the antenna connector (section 10) is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna

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manufacturer. Any antenna gain in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power before using the power limits specified in this Standard for devices of RF output powers 10 milliwatts or less. In the case of devices of output powers more than 10 milliwatts, the

total antenna gain shall be added, except for the case of 6.2.2 (o) on spread spectrum systems.

**User Manual (for transmitter with detachable antenna):** The user manual of transmitter devices equipped with a detachable antenna shall contain the following information in a conspicuous location:

*"This device has been designed to operate with an antenna having a maximum gain of [x] dB.*

*Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The*

*required antenna impedance is [ y] ohms."* Equipment manufacturer shall provide proper values of x and y to comply with the

## 12.2. Antenna Connected Construction

The antenna is designed as integrated and no consideration of replacement by the end user.

Please find the antenna specification for details, The directional gains of antenna used for transmitting is 2dBi,