

# Test Report

Report No.: MTi160711E006

Date of issue: Jul. 27, 2016

Sample Description: Etekcitec Voltson Smart Wifi Outlet

Model(s): ESWO1-USA

Applicant: Etekcitec Corporation

Address: 1202 N Miller St Suite A, Anaheim, CA 92806

Date of Test: Jul. 11, 2016 to Jul. 26, 2016

Shenzhen Microtest Co., Ltd.  
<http://www.mtitest.com>



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Test Result Certification	
<b>Applicant's name:</b>	<b>Etekcitey Corporation</b>
Address:	1202 N Miller St Suite A, Anaheim, CA 92806
<b>Manufacture's Name:</b>	<b>SHENZHEN DEDO TECH CO., LTD</b>
Address:	The 3rd floor, building 3, zhongyu technology garden, heshuikou, gongming, guangming district, Shenzhen city
<b>Product description</b>	
Product name:	Etekcitey Voltson Smart Wifi Outlet
Trademark:	/
Model name:	ESWO1-USA
<b>Standards:</b>	FCC Part 15.247
<b>Test Procedure:</b>	ANSI C63.10-2013 558074 D01 DTS Meas Guidance v03r05

*This device described above has been tested by Shenzhen Toby Technology Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.*

Tested by:

*David Chen*

David Chen

Jul. 27, 2016

Reviewed by:

*Leon Chen*

Leon Chen

Jul. 27, 2016

Approved by:

*Ares Liu*

Ares Liu

Jul. 27, 2016

## Summary of Test Result

Item	FCC Part No.	Description of Test	Result
1	15.203	Antenna requirement	Pass
2	15.207	AC power line conducted emission	Pass
3	15.247(b)(3)	Maximum output power	Pass
4	15.247(a)(2)	6dB emission bandwidth	Pass
5	15.247(e)	Power spectral density (PSD)	Pass
8	15.247(d)	Band edge & conducted spurious emission	Pass
9	15.247(d), 15.205, 15.209	Radiated emission	Pass

# 1 General description

## 1.1 Feature of equipment under test (EUT)

Product name:	Etekcitcity Voltson Smart Wifi Outlet
Model name:	ESWO1-USA
Operating frequency range:	2412MHz~2462MHz for 802.11b/g/n20
WIFI feature:	<input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n20 <input type="checkbox"/> 802.11n40
Modulation type:	DSSS, OFDM
Antenna specification:	PCBA antenna, the peak antenna gain is 1dBi.

## 1.2 Operation channel list

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	6	2437MHz	11	2462MHz
2	2417MHz	7	2442MHz	--	--
3	2422MHz	8	2447MHz	--	--
4	2427MHz	9	2452MHz	---	---
5	2432MHz	10	2457MHz	---	---

## 1.3 Test frequency channel

Channel	802.11b/g/n20	802.11n40
Low	2412MHz	/
Middle	2437MHz	/
High	2462MHz	/

## 1.4 EUT operation mode

During testing, RF test program provided by the manufacture to control the Tx operation followed the test requirement. The EUT is configured to transmit continuously (duty cycle > 98 %) at the maximum power control level.

## 1.5 Test conditions

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

- Temperature: 20°C~30°C
- Humidity: 30%~70%
- Atmospheric pressure: 98kPa~101kPa

### 1.6 Testing site

Test Site	Shenzhen Toby Technology Co., Ltd.
Test Site Location	1 A/F., Bldg.6, Yusheng Industrial Zone The National Road No.107 Xixiang Section 467, Shenzhen, Guangdong, China
FCC Registration No.:	811562
CNAS Registration No.:	CNAS L5813

### 1.7 Ancillary equipment list

Equipment	Model	S/N	Manufacturer	Certificate type
/	/	/	/	/

### 1.8 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %,  $U=2xUc(y)$

RF frequency	$1 \times 10^{-7}$
RF power, conducted	$\pm 1$ dB
Conducted emission(150kHz~30MHz)	$\pm 2.5$ dB
Radiated emission(30MHz~1GHz)	$\pm 4.2$ dB
Radiated emission (above 1GHz)	$\pm 4.3$ dB
Temperature	$\pm 1$ degree
Humidity	$\pm 5$ %

## 2 List of test equipment

For AC power line conducted emission:

Equipment	Manufacturer	Model	Serial No.	Calibration Due
LISN	R&S	ENV216	101313	2016.12.06
LISN	SCHWARZBECK	NNLK 8129	8129245	2016.12.25
Pulse Limiter	SCHWARZBECK	VTSD 9561F	9716	2016.12.25
Test Cable	N/A	N/A	C01	2016.12.06
EMI Test Receiver	R&S	ESCI	101160	2016.12.06

For Radiated emission:

Equipment	Manufacturer	Model	Serial No.	Calibration Due
Log-Bicon Antenna	MESS-ELEKTRO NIK	VULB 9160	3058	2016.12.11
Horn Antenna	Schwarzbeck	BBHA 9120D	631	2016.12.05
Horn Antenna	Schwarzbeck	BBHA 9170	373	2016.12.05
Test Cable	United Microwave	57793	1m	2016.12.05
Test Cable	United Microwave	A30A30-5006	10m	2016.12.05
Microwave Pre_amplifier	Agilent	8449B	3008A01714	2016.12.05
Pre-Amplifier	Anritsu	MH648A	M09961	2016.12.05
EMI Test Receiver	R&S	ESPI-7	101318	2016.12.05
Spectrum analyzer	Agient	E4470B	MY41441082	2017.06.01

For RF conducted emission:

Equipment	Manufacturer	Model	Serial No.	Calibration Due
Spectrum analyzer	Agient	E4470B	MY41441082	2017.06.01
Power meter	Anritsu	ML2495A	1005002	2016.09.11
Power Sensor	Anritsu	MA2411B	0917070	2016.09.11

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

### 3 Test Result

#### 3.1 Conducted emission

##### 3.1.1 Limit

Frequency (MHz)	Limit	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Note: Decreases with the logarithm of the frequency from 0.15MHz to 0.5MHz.

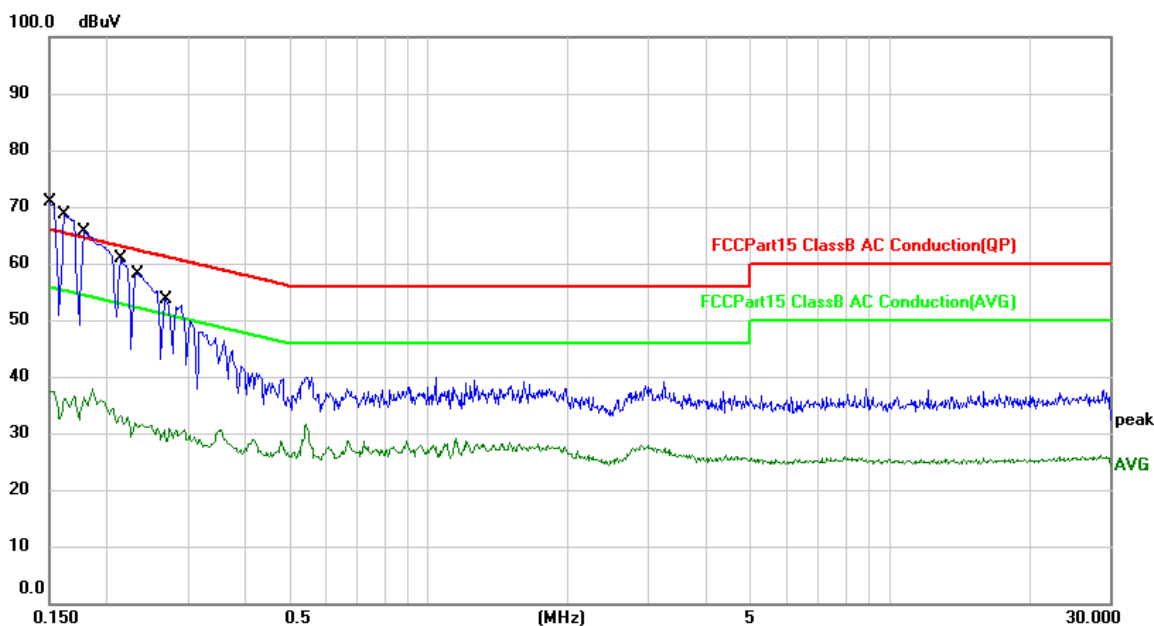
##### 3.1.2 Test method

1. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.
2. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
3. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
4. LISN is at least 80 cm from nearest part of EUT chassis.
5. The resolution bandwidth of EMI test receiver is set at 9 kHz.

##### 3.1.3 Test Result

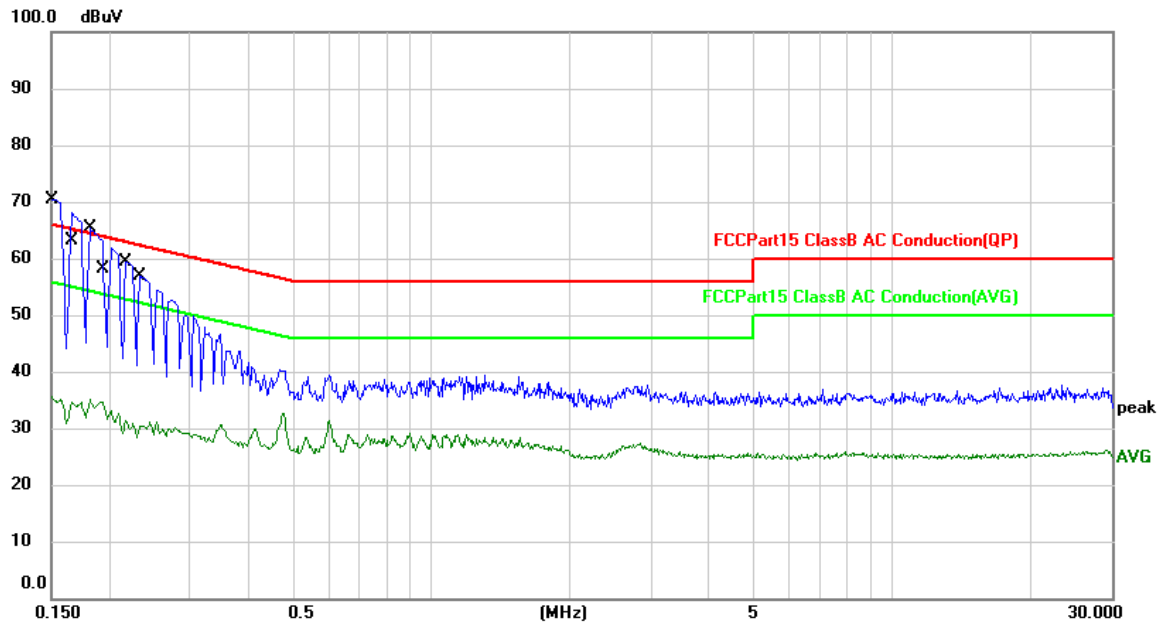


Temperature:	26°C	Relative	44%
Pressure:	101kPa	Polarization:	L
Test voltage:	AC 120V/60Hz	Test mode:	Transmitting



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1513	31.61	30.02	61.63	65.92	-4.29	QP	
2		0.1513	4.94	30.02	34.96	55.92	-20.96	AVG	
3		0.1627	28.93	30.02	58.95	65.32	-6.37	QP	
4		0.1627	3.46	30.02	33.48	55.32	-21.84	AVG	
5		0.1809	26.37	30.02	56.39	64.44	-8.05	QP	
6		0.1809	3.78	30.02	33.80	54.44	-20.64	AVG	
7		0.2108	21.24	30.02	51.26	63.17	-11.91	QP	
8		0.2108	0.87	30.02	30.89	53.17	-22.28	AVG	
9		0.2363	17.70	30.02	47.72	62.22	-14.50	QP	
10		0.2363	-0.34	30.02	29.68	52.22	-22.54	AVG	
11		0.2693	13.68	30.02	43.70	61.14	-17.44	QP	
12		0.2693	-1.53	30.02	28.49	51.14	-22.65	AVG	

Temperature:	26°C	Relative	44%
Pressure:	101kPa	Polarization:	N
Test voltage:	AC 120V/60Hz	Test mode:	Transmitting



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1508	31.42	30.02	61.44	65.95	-4.51	QP	
2		0.1508	4.36	30.02	34.38	55.95	-21.57	AVG	
3		0.1625	29.30	30.02	59.32	65.33	-6.01	QP	
4		0.1625	3.13	30.02	33.15	55.33	-22.18	AVG	
5		0.1795	26.22	30.02	56.24	64.50	-8.26	QP	
6		0.1795	3.38	30.02	33.40	54.50	-21.10	AVG	
7		0.1979	22.93	30.02	52.95	63.69	-10.74	QP	
8		0.1979	2.42	30.02	32.44	53.69	-21.25	AVG	
9		0.2186	20.00	30.02	50.02	62.87	-12.85	QP	
10		0.2186	-0.02	30.02	30.00	52.87	-22.87	AVG	
11		0.2372	17.23	30.02	47.25	62.19	-14.94	QP	
12		0.2372	-0.56	30.02	29.46	52.19	-22.73	AVG	

## **3.2 Antenna requirement**

### **3.2.1 Requirement defined in FCC 15.203**

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 §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 §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.

### **3.2.2 EUT antenna description**

The WIFI antenna of EUT is a PCB antenna, the maximum gain of the antenna is 1dBi. So the antenna meets the requirement of this part.

### 3.3 Maximum output power

#### 3.3.1 Limits

Conducted output power limit is 1W (30dBm).

#### 3.3.2 Test Method

The maximum conducted output power may be measured using a broadband RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

#### 3.3.3 Test Result

Frequency (MHz)	Maximum peak output power (dBm)	Limit (dBm)
802.11b		
2412	17.69	30
2437	17.65	30
2462	17.65	30
802.11g		
2412	17.49	30
2437	17.32	30
2462	16.95	30
802.11n20		
2412	17.09	30
2437	17.17	30
2462	17.22	30

### 3.4 6dB emission bandwidth

#### 3.4.1 Limits

The minimum 6 dB bandwidth shall be at least 500 kHz.

#### 3.4.2 Test method

Use the following spectrum analyzer settings:

RBW = 100kHz

VBW  $\geq$  3RBW

Detector = peak

Trace mode = max hold

Sweep time = auto couple

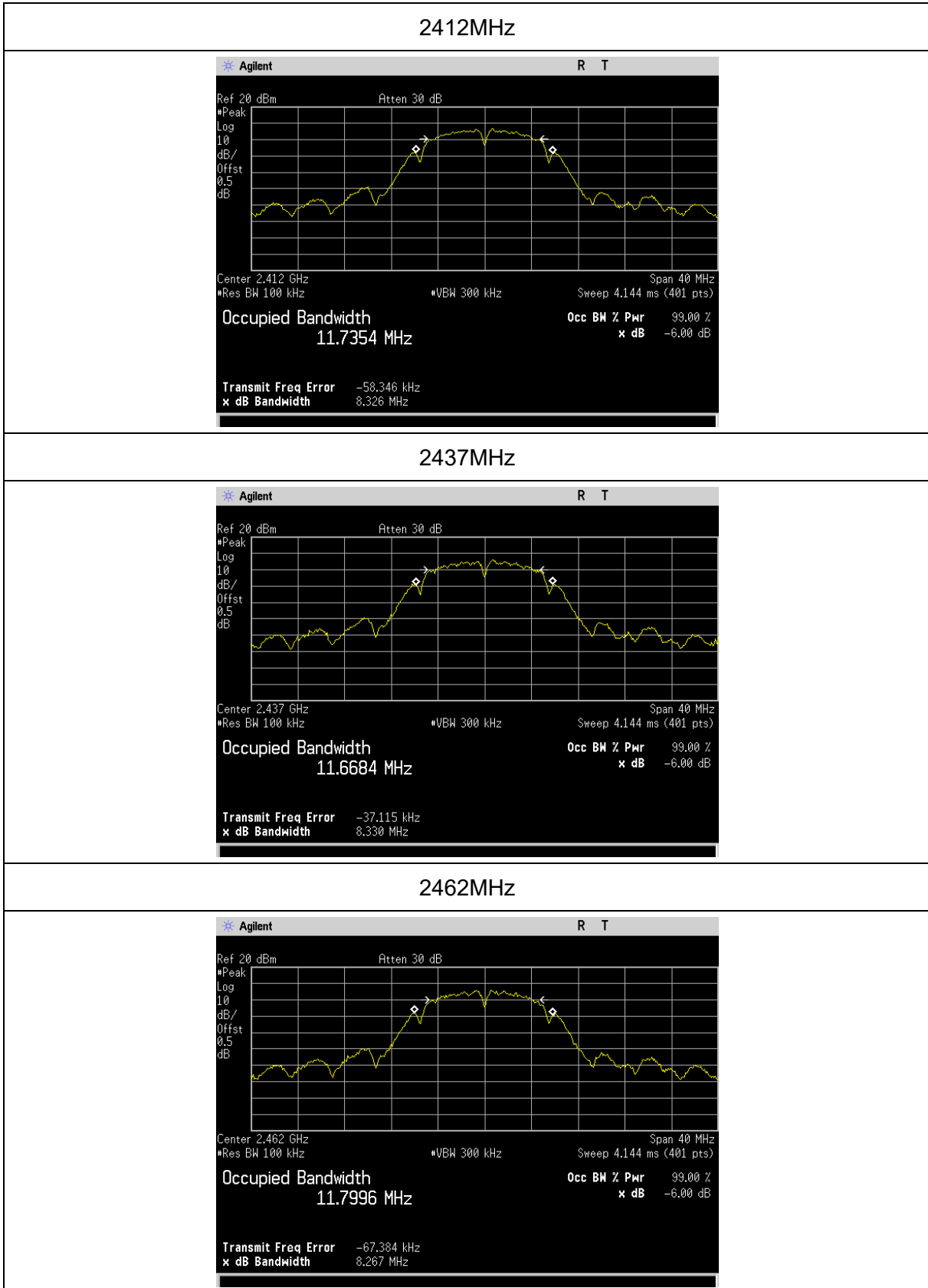
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 3.4.3 Test result

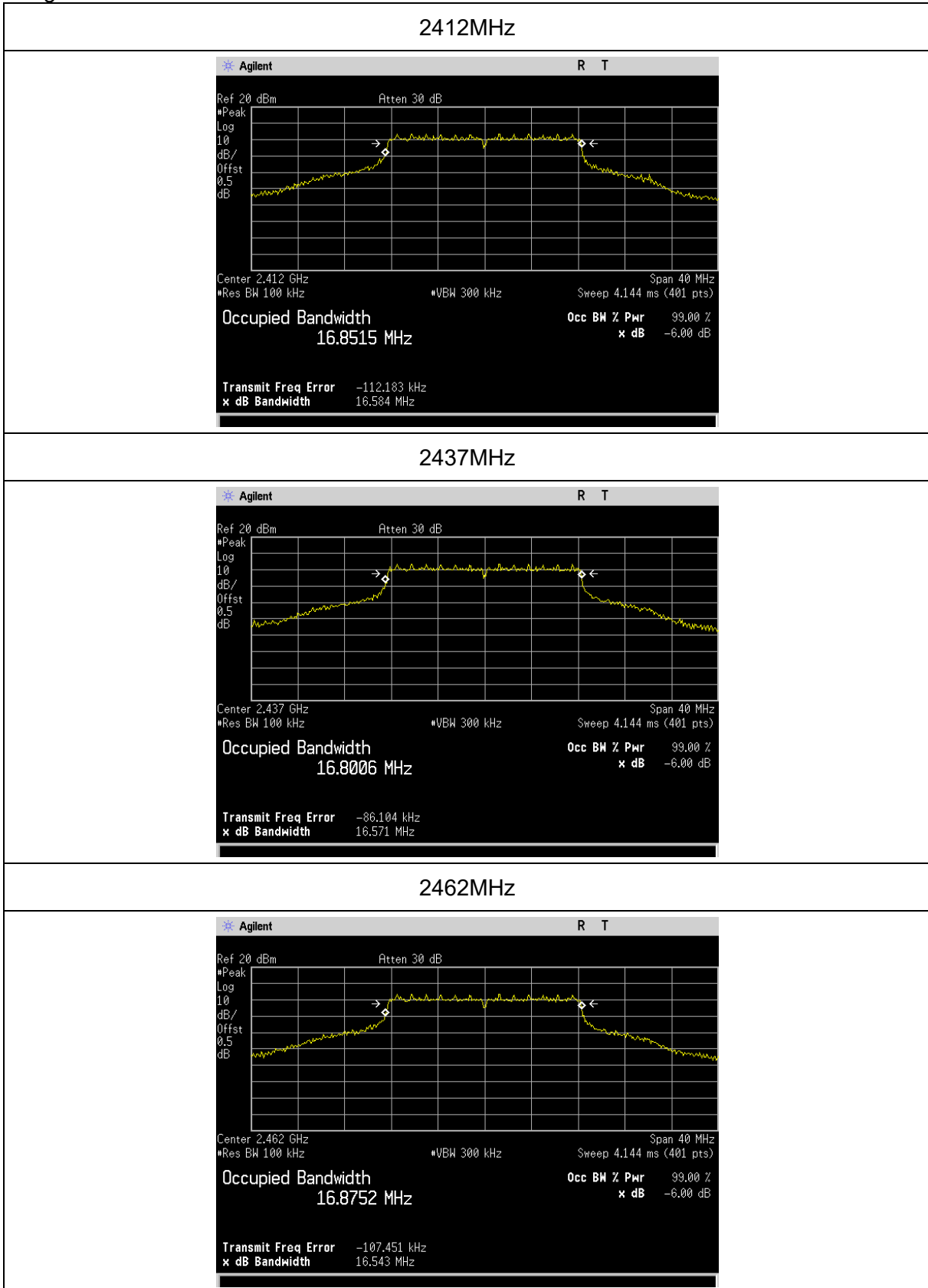
Frequency (MHz)	6dB emission bandwidth (MHz)	Limit
802.11b		
2412	8.326	500kHz
2437	8.33	
2462	8.267	
802.11g		
2412	16.584	500kHz
2437	16.571	
2462	16.543	
802.11n20		
2412	17.711	500kHz
2437	17.734	
2462	17.751	

Test plots as below:

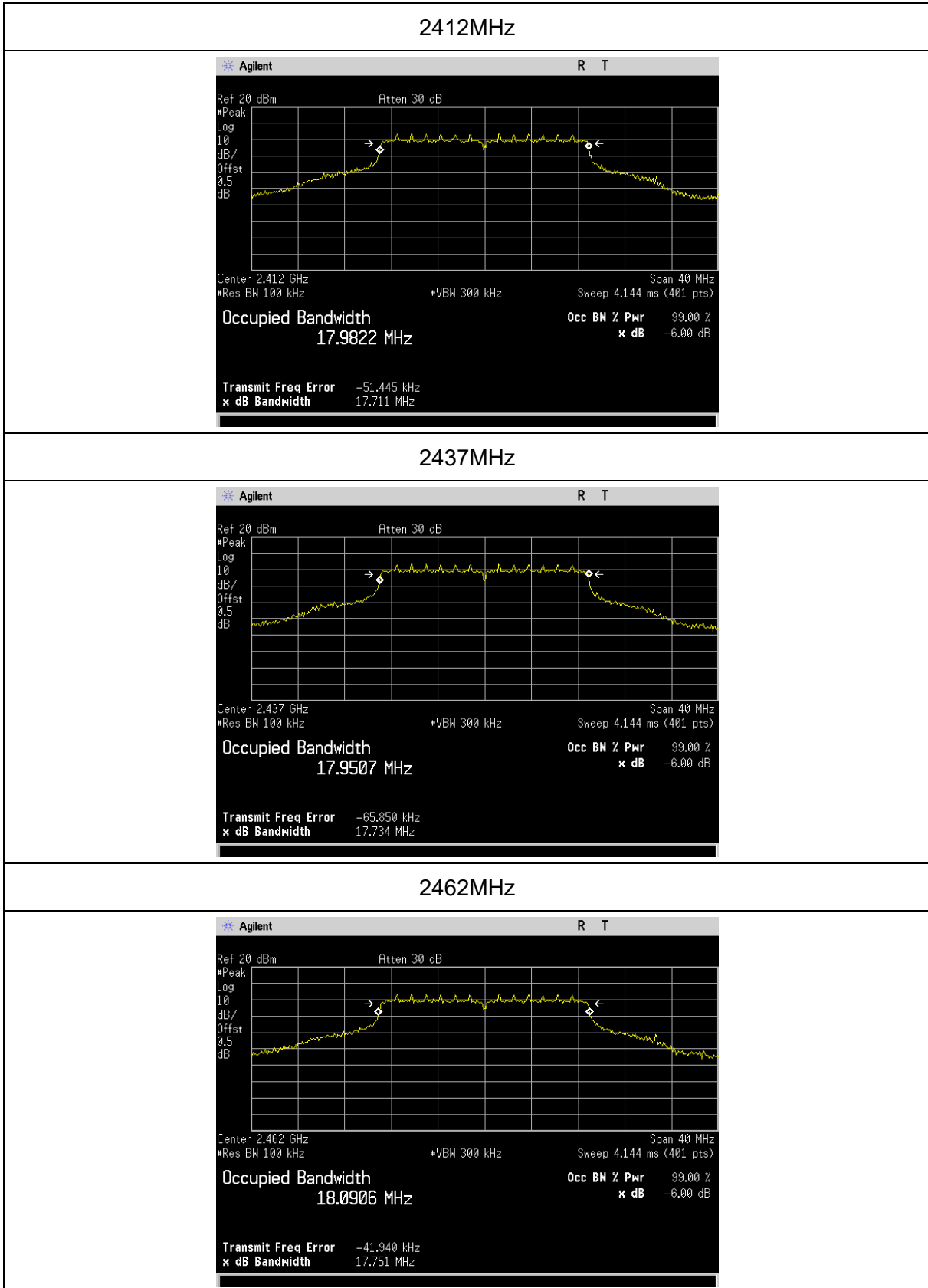
802.11b mode



802.11g mode



802.11n20 mode





### 3.5 Power spectral density

#### 3.5.1 Limits

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

#### 3.5.2 Test method

Span = 1.5 times DTS bandwidth (6dB emission bandwidth, see section 4.4)

RBW = 3kHz to 100kHz

VBW ≥ 3RBW

Detector = Peak

Sweep time = auto

Trace mode = max hold

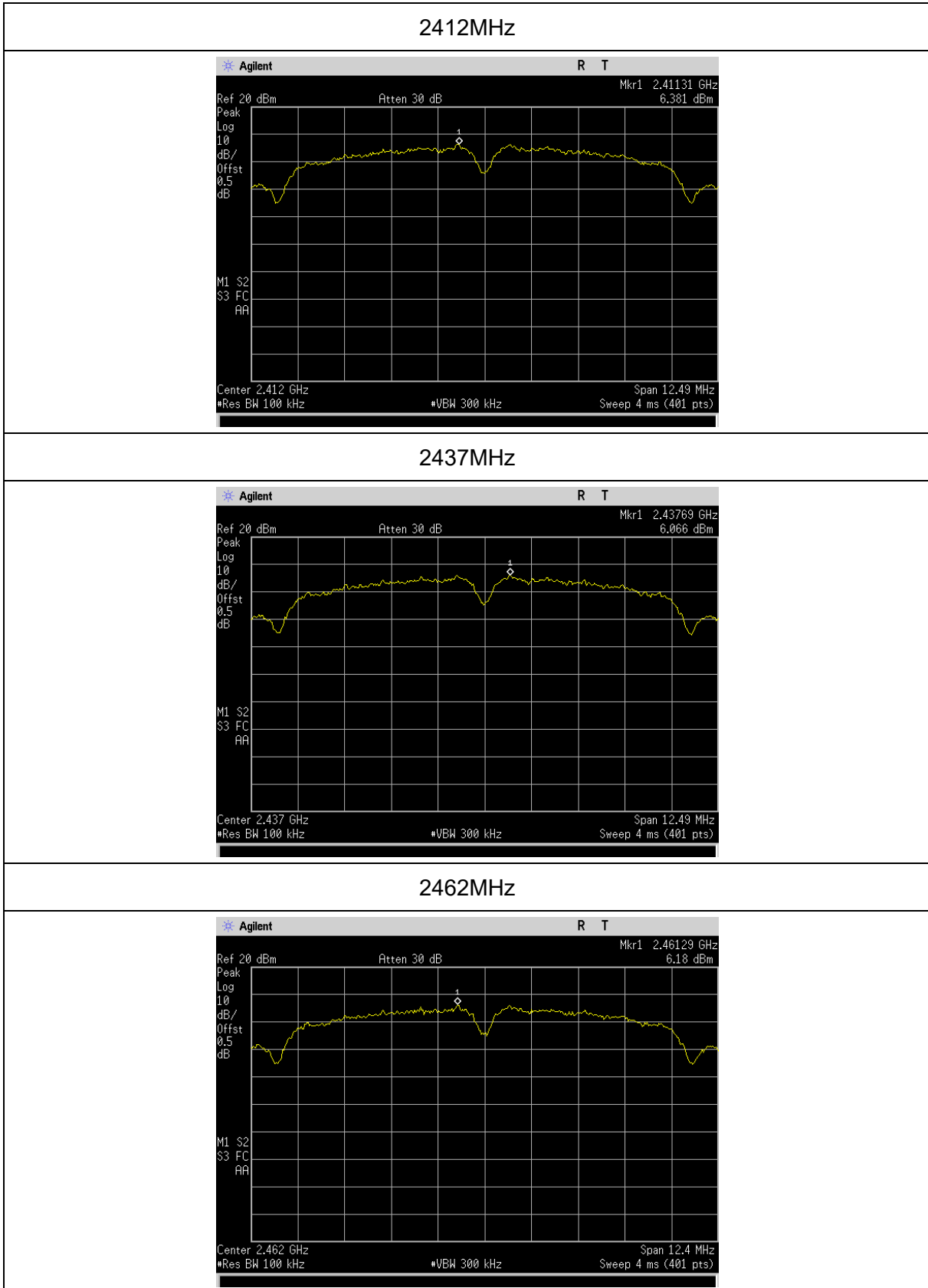
Allow the trace to stabilize. Use the peak marker function to determine the maximum amplitude level within the RBW.

#### 3.5.3 Test result

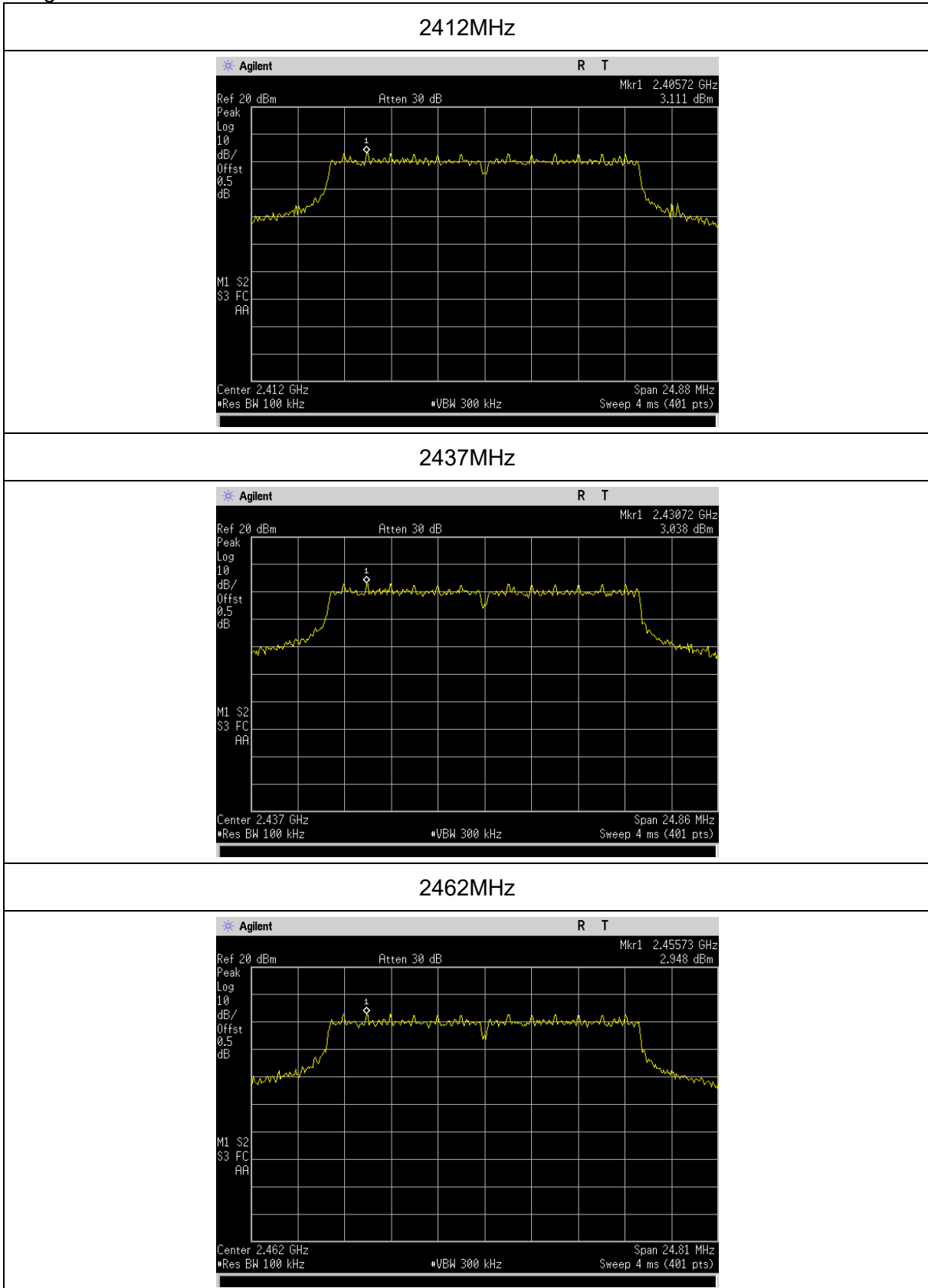
Frequency (MHz)	PSD (dBm/100kHz)	Limit (dBm/3kHz)
802.11b		
2412	6.381	8
2437	6.066	
2462	6.18	
802.11g		
2412	3.111	8
2437	3.038	
2462	2.948	
802.11n20		
2412	2.881	8
2437	2.838	
2462	2.932	

Test plots as below:

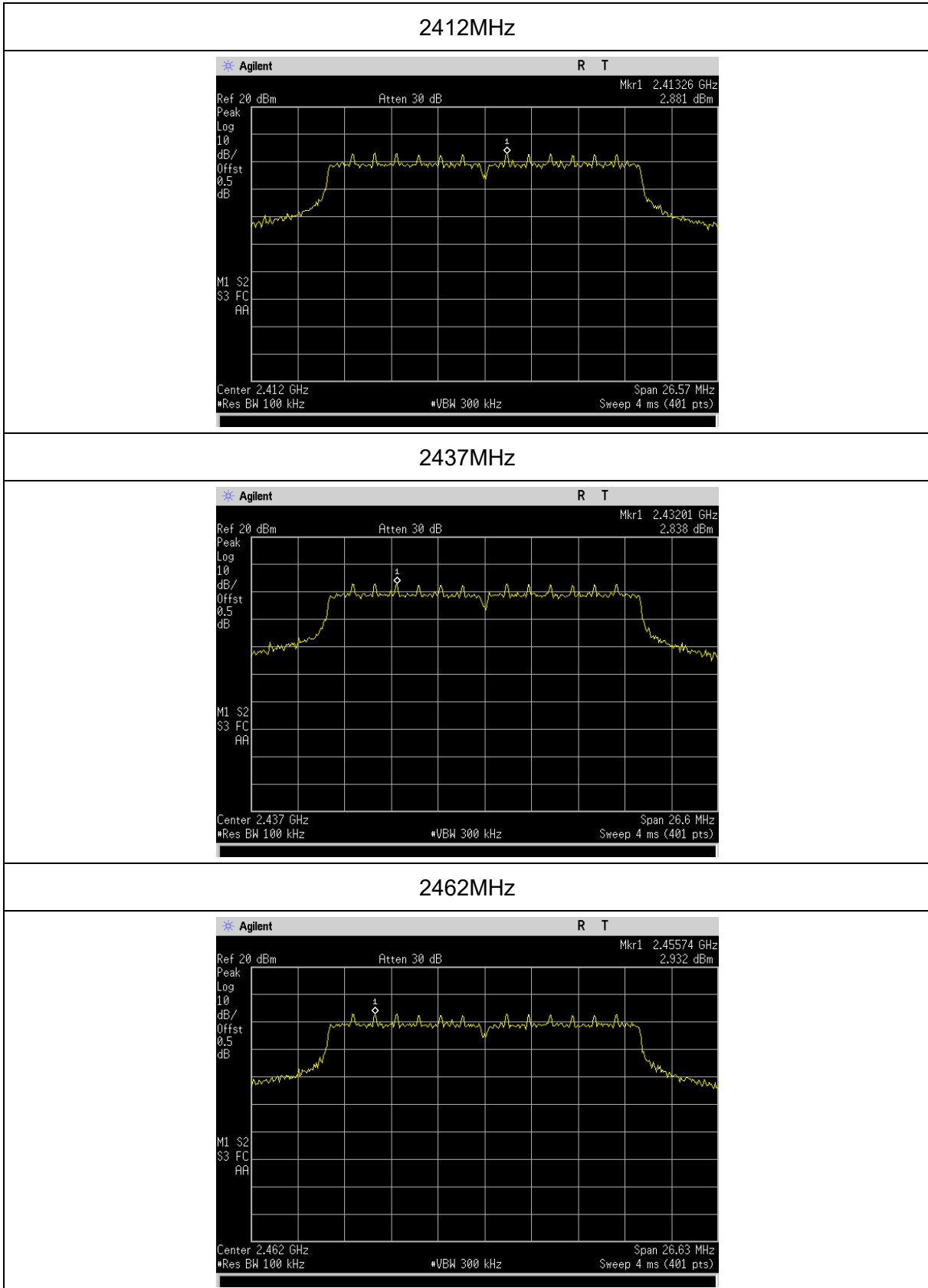
802.11b mode



802.11g mode



802.11n20 mode



## **3.6 Band edge**

### **3.6.1 Limit**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30dB instead of 20dB.

### **3.6.2 Test method**

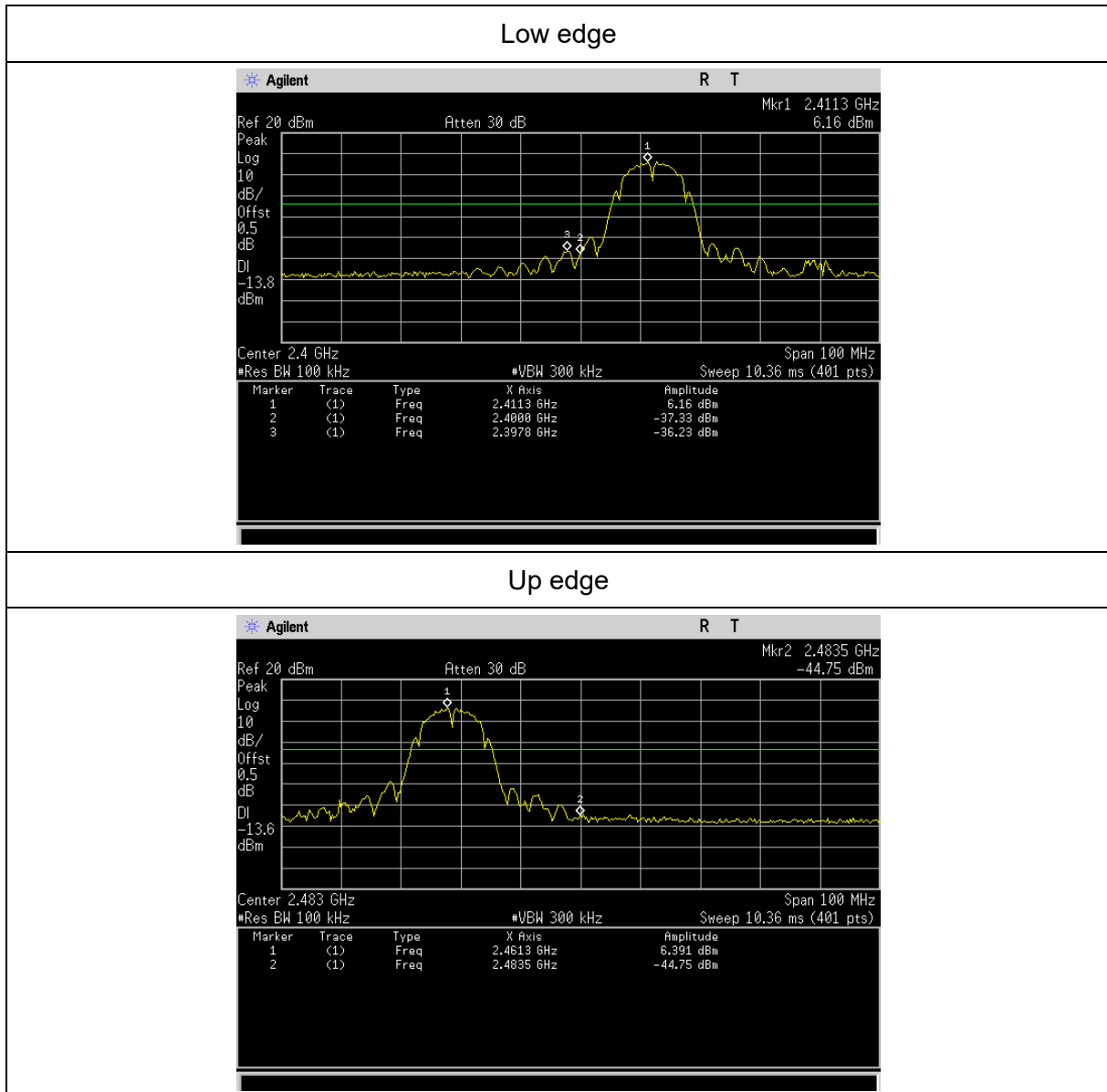
Use the following spectrum analyzer settings:

Set RBW = 100 kHz. VBW  $\geq$  3RBW. Detector = peak, Sweep time = auto couple, Trace mode = max hold.

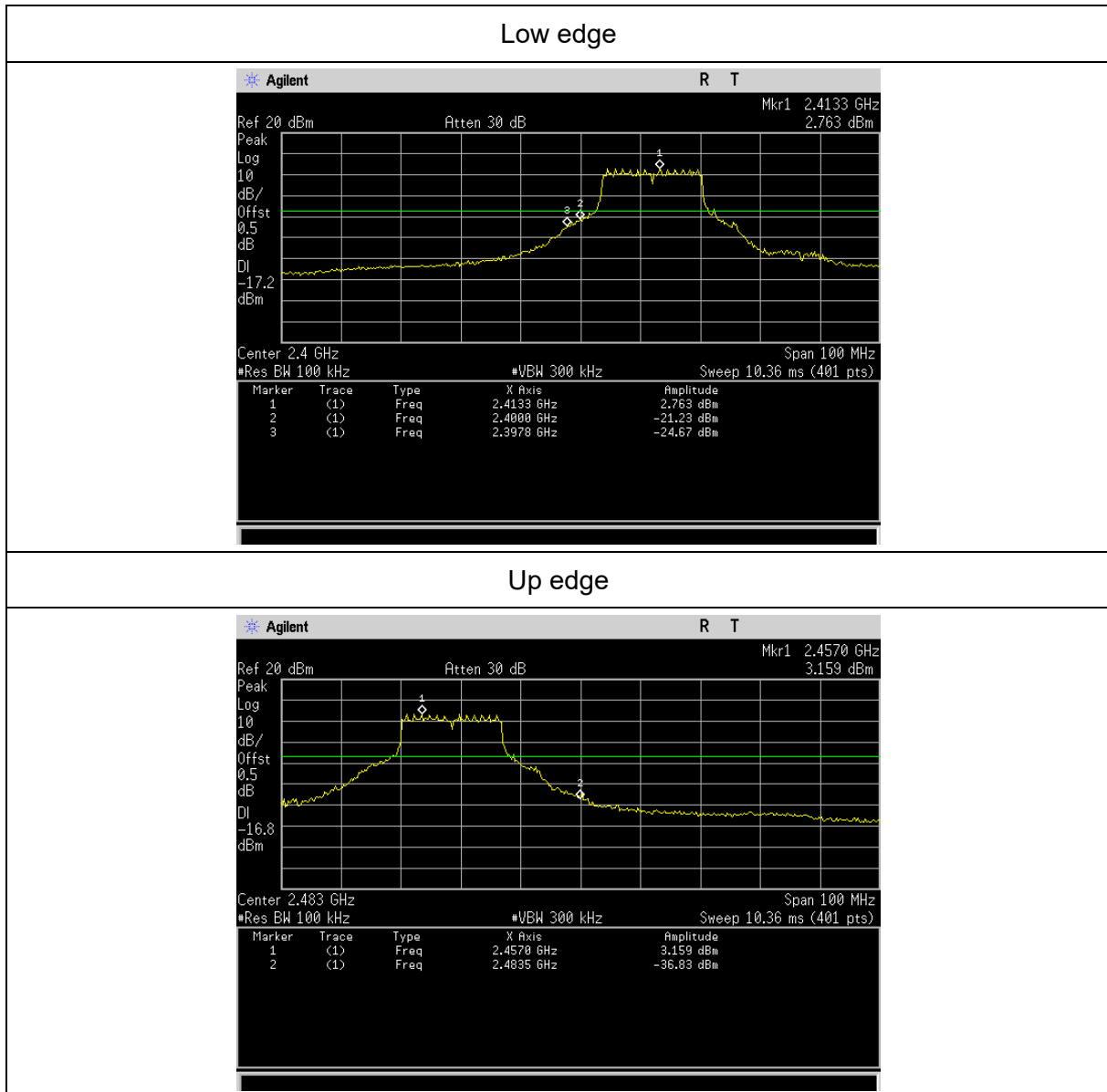
### **3.6.3 Test Result**

Test plots as below:

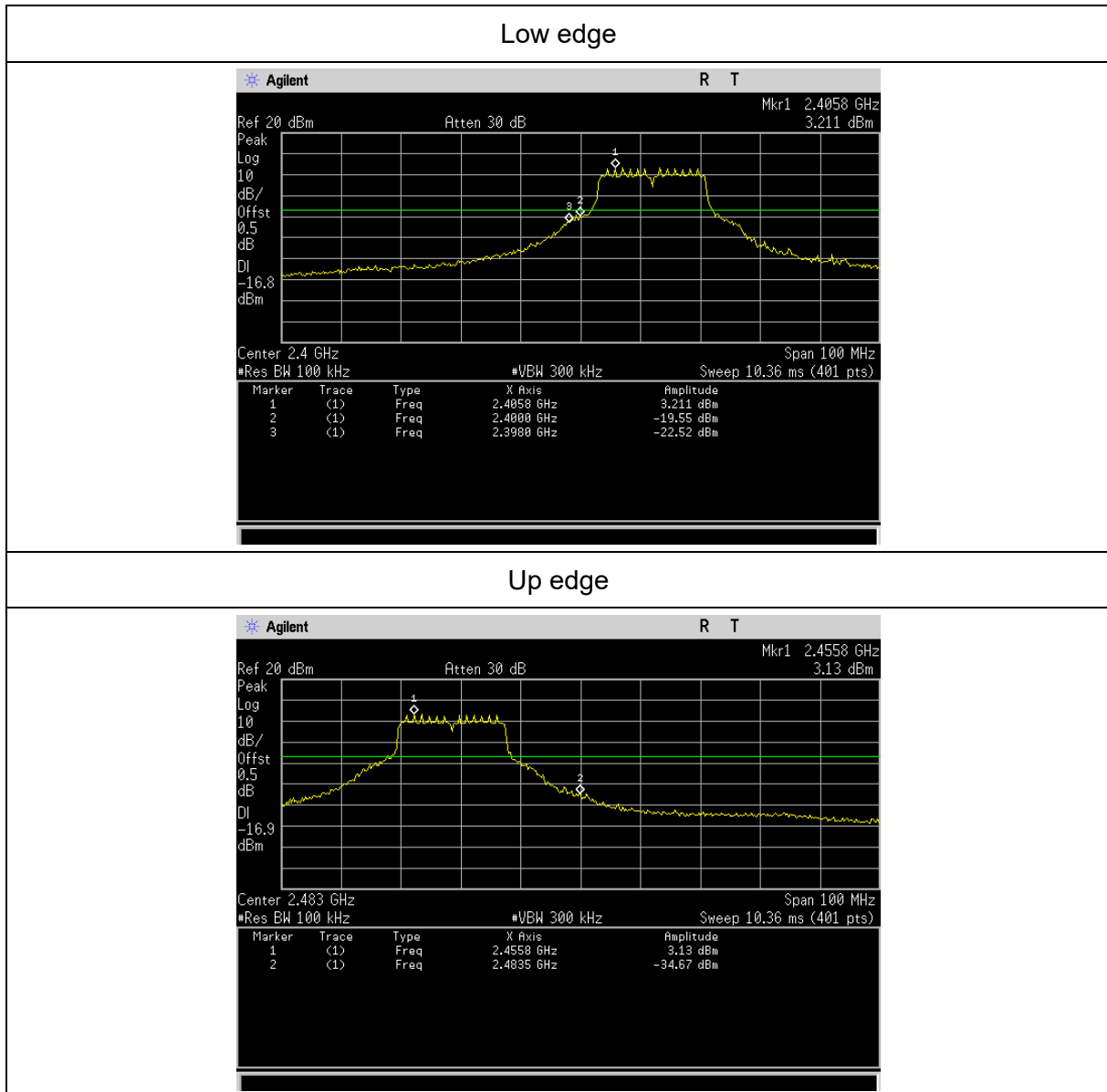
802.11b mode, Band edge



802.11g mode, Band edge



802.11n20 mode, Band edge





### 3.7 Radiated emission

#### 3.7.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20dB. Attenuation below the general limits defined in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits defined in §15.209(a).

#### Radiated emission limits defined in FCC 15.209:

Frequency (MHz)	Field strength $\mu\text{V/m}$	Field strength $\text{dB}\mu\text{V/m}$	Detector	Measurement distance
30-88	100	40	QP	3m
88-216	150	43.5	QP	
216-960	200	46	QP	
960-1000	500	46	QP	
Above 1000	500	54	AV	
Above 1000	5000	74	PK	

#### Restricted bands defined in FCC 15.205:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

### 3.7.2 Test method

1. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

2. Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured, RBW = 1 MHz for  $f \geq 1\text{GHz}$ , 100 kHz for  $f < 1\text{GHz}$ , VBW  $\geq$  RBW, Sweep = auto, Detector function = peak, Trace = max hold

3. Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

4. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle per channel of the hopping signal is less than 100ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from  $20\log(\text{duty cycle}/100\text{ms})$ , in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

### 3.7.3 Test Result

Remark:

If the PK measured values lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.

802.11b: 2412MHz						
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result	Comment
(MHz)	H / V	dBµV/m	dBµV/m			
159.79	V	35.3	43.5	QP	Pass	Spurious emission
159.79	H	39.6	43.5	QP		Spurious emission
2390	V	51.06	74	PK		Restricted bands
2390	H	50.67	74	PK		Restricted bands
4824	V	52.39	74	PK		Restricted bands
4824	H	55.22	74	PK		Restricted bands
4824	H	52.87	54	AVG		Restricted bands
7236	V	50.49	74	PK		Spurious emission
7236	H	51.42	74	PK		Spurious emission
802.11b: 2437MHz						
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result	Comment
(MHz)	H / V	dBµV/m	dBµV/m			
159.79	V	36.2	43.5	QP	Pass	Spurious emission
159.79	H	39	43.5	QP		Spurious emission
4874	V	52.23	74	PK		Restricted bands
4874	H	54.71	74	PK		Restricted bands
4874	H	52.36	54	AVG		Restricted bands
7311	V	51.57	74	PK		Restricted bands
7311	H	51.84	74	PK		Restricted bands
802.11b: 2462MHz						
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result	Comment
(MHz)	H / V	dBµV/m	dBµV/m			
159.79	V	35.8	43.5	QP	Pass	Spurious emission
159.79	H	39.5	43.5	QP		Spurious emission
2483.5	V	48.54	74	PK		Restricted bands
2483.5	H	47.56	74	PK		Restricted bands
4924	V	51.27	74	PK		Restricted bands
4924	H	52.65	74	PK		Restricted bands
7386	V	50.33	74	PK		Restricted bands
7386	H	51.54	74	PK		Restricted bands

802.11g: 2412MHz							
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result	Comment	
(MHz)	H / V	dBµV/m	dBµV/m				
159.79	V	35.7	43.5	QP	Pass	Spurious emission	
159.79	H	40.1	43.5	QP		Spurious emission	
2390	V	61.89	74	PK		Restricted bands	
2390	V	44.65	54	AVG		Restricted bands	
2390	H	63.42	74	PK		Restricted bands	
2390	H	47.03	54	AVG		Restricted bands	
4824	V	51.82	74	PK		Restricted bands	
4824	H	50.14	74	PK		Restricted bands	
7236	V	49.15	74	PK		Spurious emission	
7236	H	51.99	74	PK		Spurious emission	
802.11g: 2437MHz							
Frequency	Ant. Polarization	Emission level	Limits	Detector		Result	Comment
(MHz)	H / V	dBµV/m	dBµV/m				
159.79	V	36.2	43.5	QP	Pass	Spurious emission	
159.79	H	39.7	43.5	QP		Spurious emission	
4874	V	52.37	74	PK		Restricted bands	
4874	H	50.45	74	PK		Restricted bands	
7311	V	52.34	74	PK		Restricted bands	
7311	H	50.66	74	PK		Restricted bands	
802.11g: 2462MHz							
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result	Comment	
(MHz)	H / V	dBµV/m	dBµV/m				
159.79	V	34.5	43.5	QP	Pass	Spurious emission	
159.79	H	39.3	43.5	QP		Spurious emission	
2483.5	V	56.13	74	PK		Restricted bands	
2483.5	V	39.18	54	AVG		Restricted bands	
2483.5	H	58.31	74	PK		Restricted bands	
2483.5	H	41.02	54	AVG		Restricted bands	
4924	V	52.49	74	PK		Restricted bands	
4924	H	50.52	74	PK		Restricted bands	
7386	V	52.64	74	PK		Restricted bands	
7386	H	51.16	74	PK		Restricted bands	

802.11n20: 2412MHz						
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result	Comment
(MHz)	H / V	dBµV/m	dBµV/m			
159.79	V	35.7	43.5	QP	Pass	Spurious emission
159.79	H	39.5	43.5	QP		Spurious emission
2390	V	59.56	74	PK		Restricted bands
2390	V	42.78	54	AVG		Restricted bands
2390	H	60.77	74	PK		Restricted bands
2390	H	45.14	54	AVG		Restricted bands
4824	V	51.57	74	PK		Restricted bands
4824	H	49.83	74	PK		Restricted bands
7236	V	50.66	74	PK		Spurious emission
7236	H	49.97	74	PK		Spurious emission
802.11n20: 2437MHz						
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result	Comment
(MHz)	H / V	dBµV/m	dBµV/m			
159.79	V	34.8	43.5	QP	Pass	Spurious emission
159.79	H	38.7	43.5	QP		Spurious emission
4874	V	49.7	74	PK		Restricted bands
4874	H	51.47	74	PK		Restricted bands
7311	V	50.62	74	PK		Restricted bands
7311	H	51.89	74	PK		Restricted bands
802.11n20: 2462MHz						
Frequency	Ant. Polarization	Emission level	Limits	Detector	Result	Comment
(MHz)	H / V	dBµV/m	dBµV/m			
159.79	V	36.1	43.5	QP	Pass	Spurious emission
159.79	H	40.2	43.5	QP		Spurious emission
2483.5	V	55.88	74	PK		Restricted bands
2483.5	V	40.22	54	AVG		Restricted bands
2483.5	H	58.2	74	PK		Restricted bands
2483.5	H	42.48	54	AVG		Restricted bands
4924	V	51.98	74	PK		Restricted bands
4924	H	51.23	74	PK		Restricted bands
7386	V	52.55	74	PK		Restricted bands
7386	H	51.46	74	PK		Restricted bands

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