

## RF Test Report

Applicant : Pismo Labs Technology Limited

Product Type : Pepwave / Peplink / Pismo Labs Wireless Product

Trade Name : peplink, PEPWAVE, Pismo

Model Number : SpeedFusion Engine, SFE-CAM-AB-LTEA-W,  
SFE-CAM-VM-LTEA-W, SFE-CAM, Pismo827, Pismo 827

Applicable Standard : FCC 47 CFR PART 15 SUBPART C  
ANSI C63.10:2013

Receive Date : Sep. 11, 2018

Test Period : Nov. 05 ~ Nov. 15, 2018

Issue Date : Nov. 21, 2018

### Issue by

A Test Lab Techno Corp.  
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Taiwan Accreditation Foundation accreditation number: 1330  
Test Firm MRA designation number: TW0010

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### Revision History

Rev.	Issue Date	Revisions	Revised By
00	Nov. 21, 2018	Initial Issue	Nina Lin

# Verification of Compliance

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Model Number : SpeedFusion Engine, SFE-CAM-AB-LTEA-W,  
SFE-CAM-VM-LTEA-W, SFE-CAM, Pismo827, Pismo 827

FCC ID : U8G-P1827

EUT Rated Voltage : DC 12 V, 2 A

Test Voltage : 120 Vac / 60 Hz

Applicable Standard : FCC 47 CFR PART 15 SUBPART C  
ANSI C63.10:2013

Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.  
No. 140-1, Changan Street, Bade District,  
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Taiwan Accreditation Foundation accreditation number: 1330  
<http://www.atl-lab.com.tw/e-index.htm>



A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By  
(Manager)

: 

(Fly Lu)

Reviewed By

(Testing Engineer)

: 

(Eric Ou Yang)

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## 1 General Information

### 1.1 Summary of Test Result

Standard	Item	Result	Remark
FCC			
15.207	AC Power Conducted Emission	PASS	-----
15.247(d)	Transmitter Radiated Emissions	PASS	-----
15.247(b)(3)	Max. Output Power	PASS	-----
15.247(a)(2)	6 dB RF Bandwidth	PASS	-----
15.247(e)	Maximum Power Spectral Density	PASS	-----
15.247(d)	Out of Band Conducted Spurious Emission	PASS	-----
15.203	Antenna Requirement	PASS	-----

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

Standard	Description
CFR47, Part 15, Subpart C	Intentional Radiators
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 v05	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES

## 1.2 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	9 kHz ~ 150 kHz	2.7
	150 kHz ~ 30 MHz	2.7
Radiated Emission	9 kHz ~ 30 MHz	1.7
	30 MHz ~ 1000 MHz	5.7
	1000 MHz ~ 18000 MHz	5.5
	18000 MHz ~ 26500 MHz	4.8
	26500 MHz ~ 40000 MHz	4.8
Conducted Output Power	+0.27 dB / -0.28 dB	
RF Bandwidth	4.96 %	
Power Spectral Density	+0.71 dB / -0.77 dB	

## 2 EUT Description

Applicant	Pismo Labs Technology Limited A5, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong			
Manufacturer	Pismo Labs Technology Limited Unit A5, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong			
Product Type	Pepwave / Peplink / Pismo Labs Wireless Product			
Trade Name	peplink, PEPWAVE, Pismo			
Model Number	SpeedFusion Engine, SFE-CAM-AB-LTEA-W, SFE-CAM-VM-LTEA-W, SFE-CAM, Pismo827, Pismo 827			
Product Type / Trade Name / Models Different Description	Those model numbers differ from each other in selling region.			
FCC ID	U8G-P1827			
IMEI No.	IMEI1: 359072061865230, IMEI2: 359072061860199			
Operate Freq. Band	Frequency Range (MHz)	Modulation	Channel Bandwidth	Data Rate 400 / 800 GI (ns)
IEEE 802.11b	2412 ~ 2462	DSSS	20 MHz	Up to 11 Mbps
IEEE 802.11g	2412 ~ 2462	OFDM	20 MHz	Up to 54 Mbps
IEEE 802.11n 2.4 GHz 20 MHz	2412 ~ 2462	OFDM	20 MHz	Up to 144.4 Mbps
IEEE 802.11n 2.4 GHz 40 MHz	2422 ~ 2452	OFDM	40 MHz	Up to 300 Mbps
Antenna information	ANT	Model Number	Type	Max. Gain (dBi)
	ANT-0	98PD6PIPF000	PCB Antenna	3.3
	ANT-1	98PD6PIPF000	PCB Antenna	3.63
	$G_{ANT}$			3.47
Antenna Delivery	See section 3.1			
Operate Temp. Range	-40 ~ +40 °C			

Frequency Band	Max. RF Output Power (W)
IEEE 802.11b	0.221
IEEE 802.11g	0.349
IEEE 802.11n 2.4 GHz 20 MHz	0.451
IEEE 802.11n 2.4 GHz 40 MHz	0.133

### 3 Test Methodology

#### 3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit mode
Mode 2: IEEE 802.11b Continuous TX mode
Mode 3: IEEE 802.11g Continuous TX mode
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode
Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes.

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

Note: ANT-1 for IEEE 802.11b / IEEE 802.11g is only RX function.

Test Mode	ANT-0	ANT-1	ANT-0+1
Mode 2	V	---	---
Mode 3	V	---	---
Mode 4	V	V	V
Mode 5	V	V	V

Test Mode	Antenna Delivery	Data Rate	Test Channel
Mode 2	1TX	1 M	1, 6, 11
Mode 3	1TX	6 M	1, 6, 11
Mode 4	2TX (CDD)	13 M	1, 6, 11
Mode 5	2TX (CDD)	27 M	3, 6, 9

**Duty cycle**

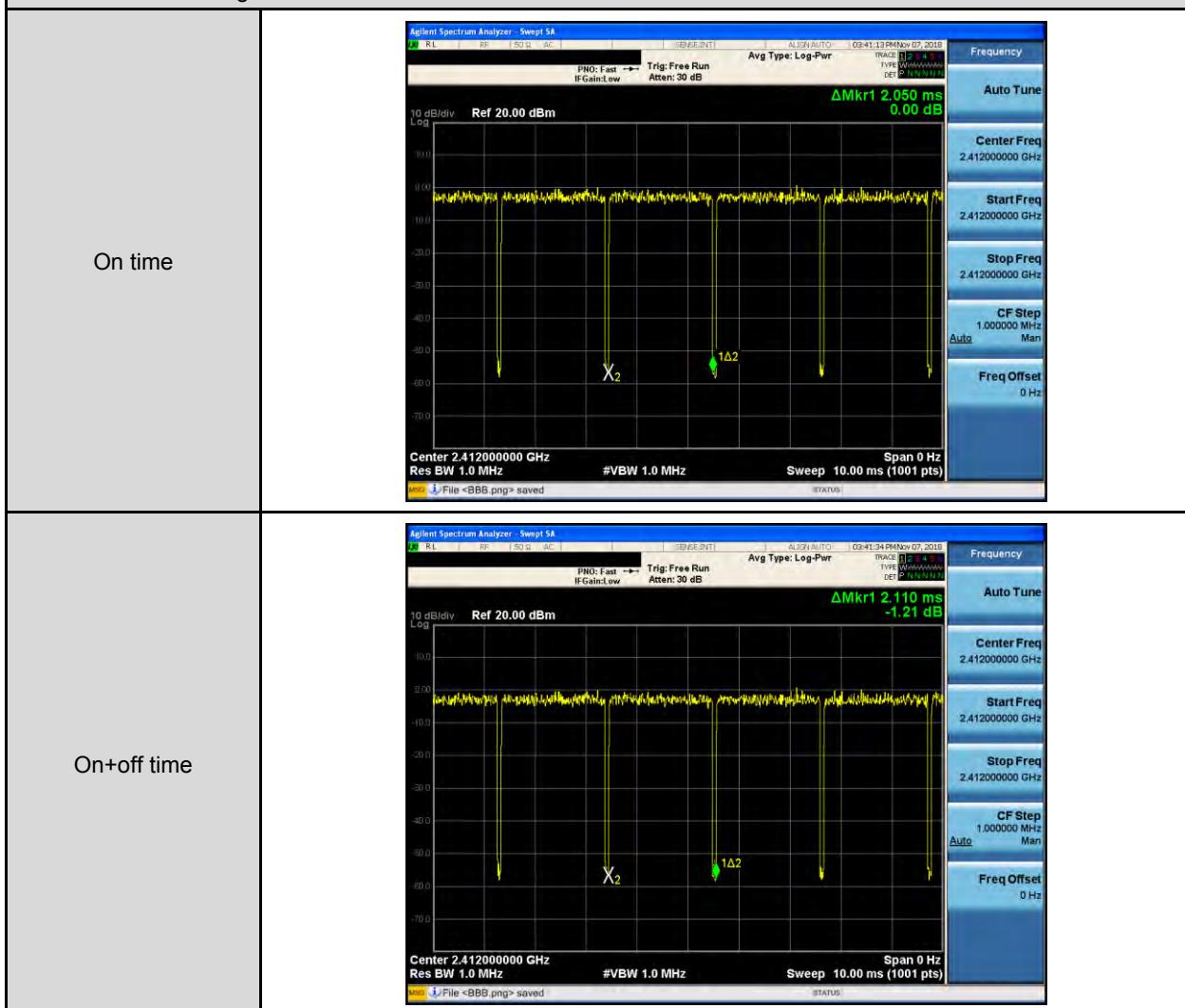
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2	2412.0	12.240	12.280	0.997	0.014	0.010
Mode 3	2412.0	2.050	2.110	0.972	0.125	0.488
Mode 4	2412.0	1.000	1.050	0.952	0.212	1.000
Mode 5	2422.0	0.510	0.570	0.895	0.483	1.961

### Duty Cycle Graphs

Mode 2: IEEE 802.11b Continuous TX mode



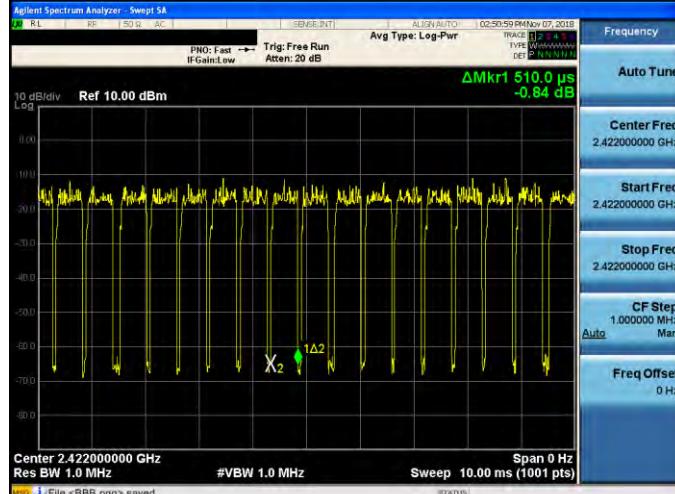
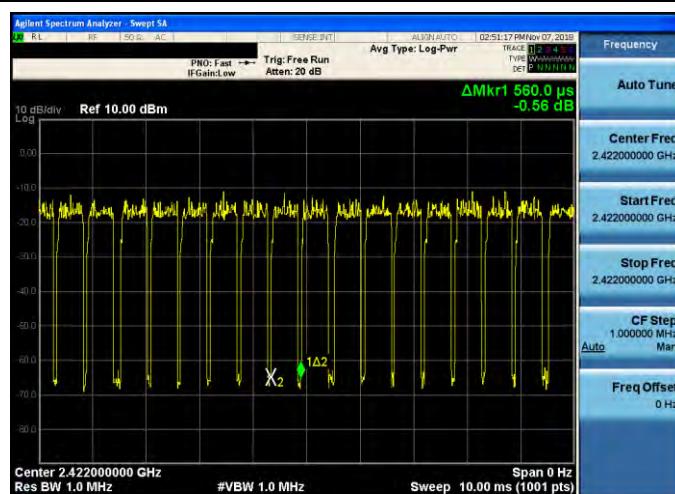
## Mode 3: IEEE 802.11g Continuous TX mode



## Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode



## Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode

On time	
On+off time	

### 3.2. EUT Test Step

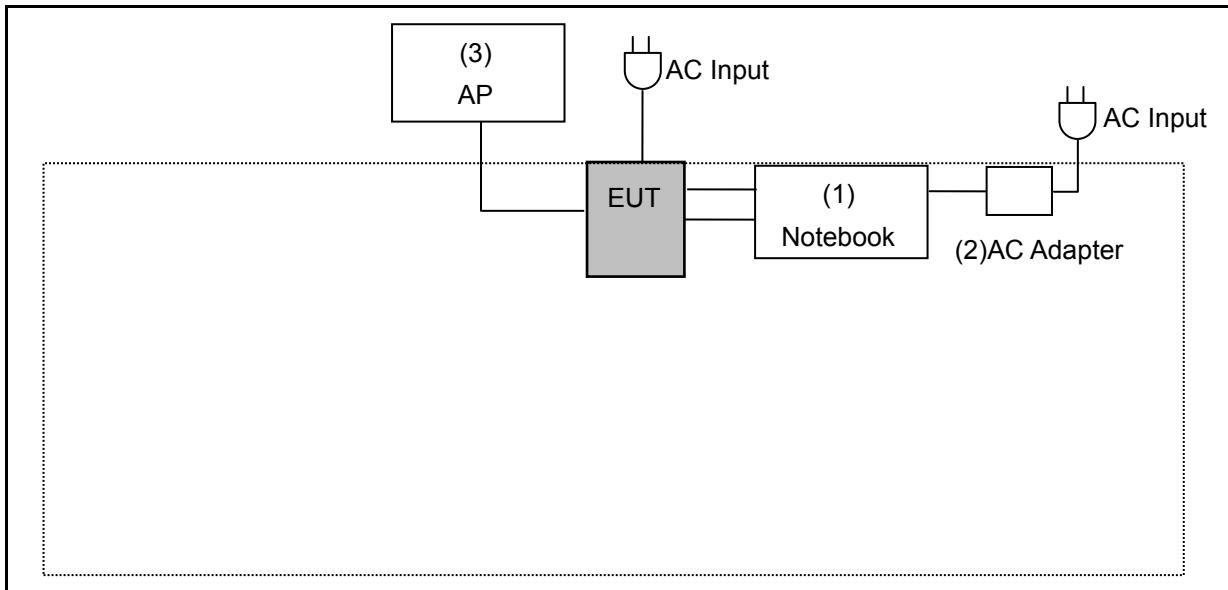
1.	Setup the EUT shown on "Configuration of Test System Details".
2.	Turn on the power of all equipment.
3.	Turn Wi-Fi function link to Notebook.
4.	EUT run test program.

#### Measurement Software

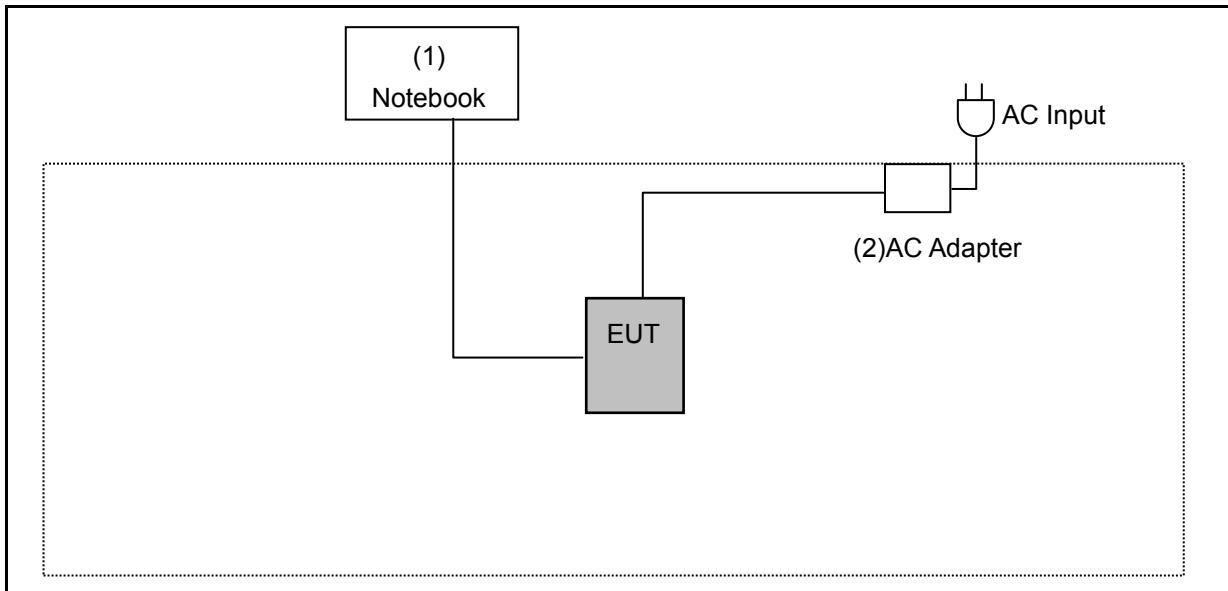
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

### 3.3. Configuration of Test System Details

Conducted Emissions



Radiated Emission



Devices Description

Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	DELL	LATITUDE E5440	BRTQXY1	---
(2)	AC Adapter	DELL	HA65NM130	---	Non-Shielded, 0.8 m
(3)	AP	Netgear	R7800	---	---

### 3.4. Test Instruments

For Conducted Emission

Test Period: Nov. 15, 2018

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	05/21/2018	1 year
LISN	R&S	ENV216	101040	04/11/2018	1 year
LISN	R&S	ENV216	101041	03/23/2018	1 year
RF Cable	Woken	00100D1380194M	TE-02-03	05/17/2018	1 year

For Radiated Emissions

Test Period: Nov. 05 ~ Nov. 06, 2018

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	01/15/2018	1 year
Pre Amplifier (1~26.5 GHz)	Agilent	8449B	3008A02237	10/19/2018	1 year
Pre Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	01/10/2018	1 year
Trilog Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	SB AC VULB	9168-0841	03/02/2018	1 year
Horn Antenna (1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	08/23/2018	1 year
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	03/13/2018	1 year
RF Cable	EMCI	EMC104-N-N-6000	TE01-1	02/20/2018	1 year
Microwave Cable	EMCI	EMC102-KM-KM-1 4000	151001	02/20/2018	1 year
Broadband Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	9170	9170-320	08/07/2018	1 year

Note: N.C.R. = No Calibration Request.

For Conducted

Test Period: Nov. 07 ~ Nov. 08, 2018

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Power Sensor	Anritsu	MA2411B	1126022	08/29/2018	1 year
Power Meter	Anritsu	ML2495A	1135009	08/29/2018	1 year
Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	09/25/2018	1 year
Microwave Cable	EMCI	EMC102-SM-SM15 00	001	11/22/2017	1 year

Note: N.C.R. = No Calibration Request.

### 3.5. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	990

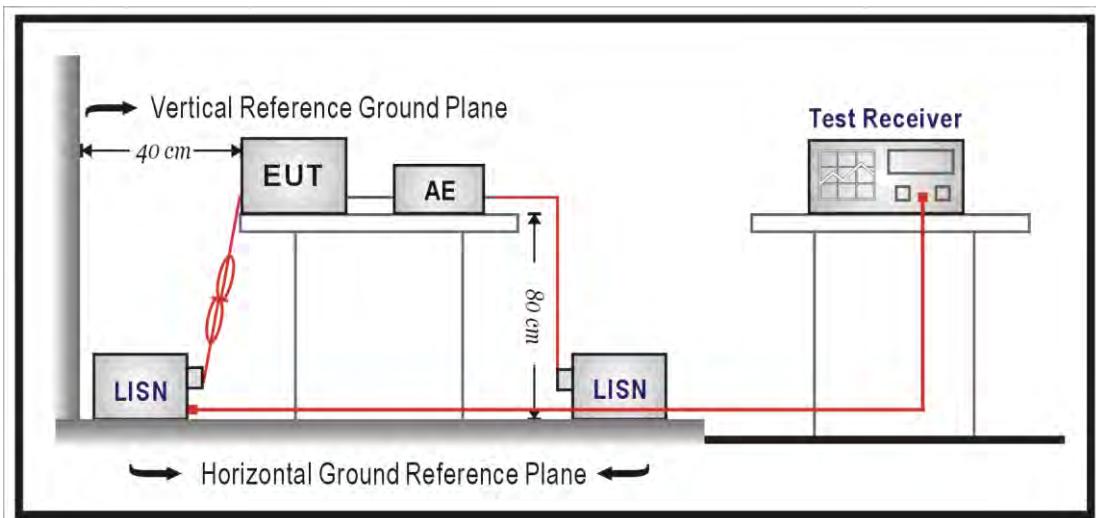
## 4 Measurement Procedure

### 4.1. AC Power Line Conducted Emission Measurement

#### ■ Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

#### ■ Test Setup



### ■ Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a  $50 \Omega$  //  $50 \mu\text{H}$  coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a  $50 \Omega$  //  $50 \mu\text{H}$  coupling impedance with  $50 \text{ ohm}$  termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40 cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80 cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12 mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150 kHz to 30 MHz then quasi-peak and average measurement was unnecessary.

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of 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 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All  $50 \Omega$  ports of the LISN shall be resistively terminated into  $50 \Omega$  loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

## 4.2. Radiated Emission Measurement

### ■ Limit

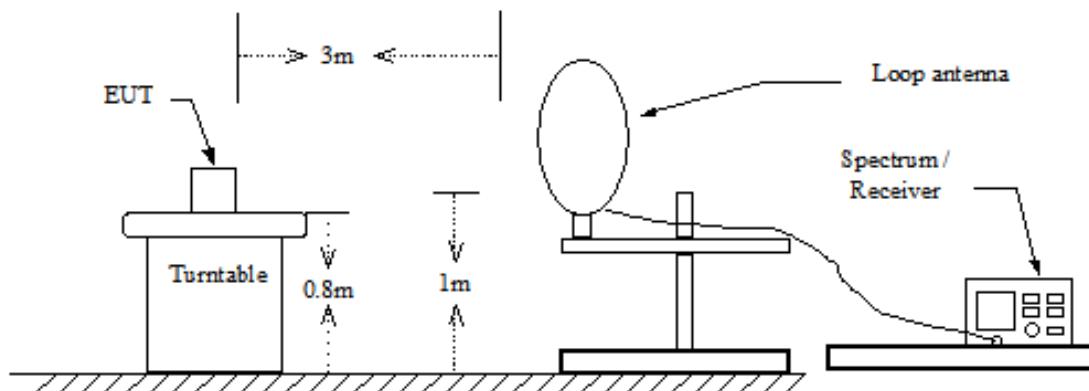
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

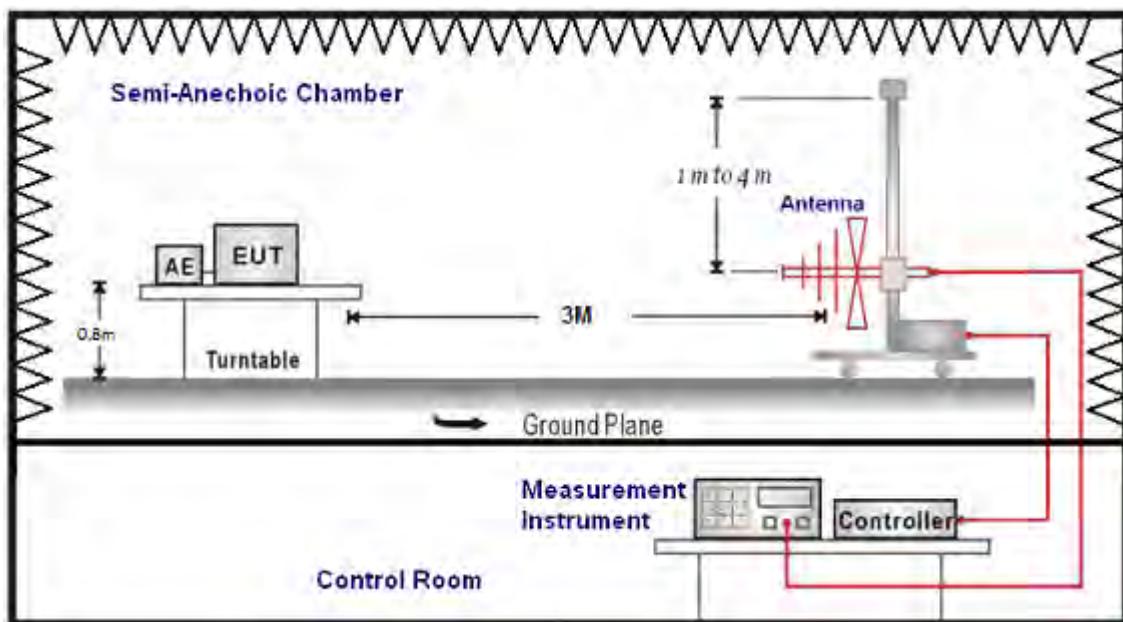
\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

### ■ Setup

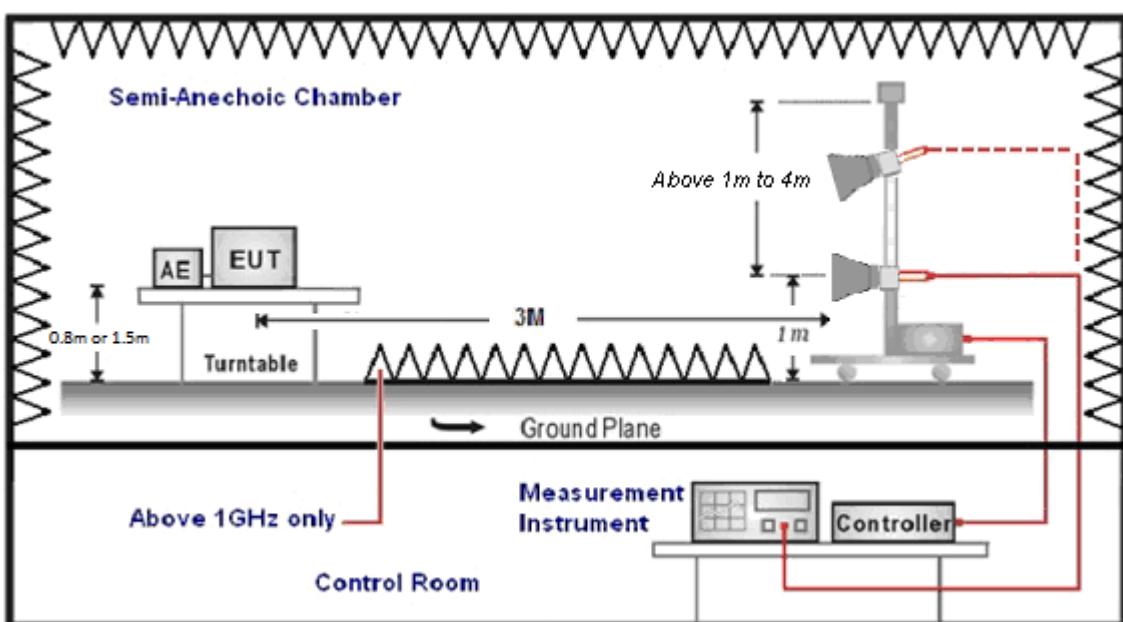
9 kHz ~ 30 MHz



Below 1 GHz



Above 1 GHz



## ■ Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle >0.98 / 1/T for average measurements when Duty cycle <0.98. A nonconductive material surrounded the EUT to supporting the EUT for standing on tree orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna was used in frequencies 1 –26.5 GHz at a distance of 3 meter. The antenna at an angle toward the source of the emission. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20 dB/decade).

For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dB<sub>uV</sub>) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro colts per meter (dB<sub>uV/m</sub>).

The actual field intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

- (1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

- (2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30 dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

Data of measurement within this frequency range without mark in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.

### 4.3. Maximum Conducted Output Power Measurement

#### ■ Limit

For systems using digital modulation in the 2400-2483.5 MHz, the limit for maximum output power is 30 dBm.

And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

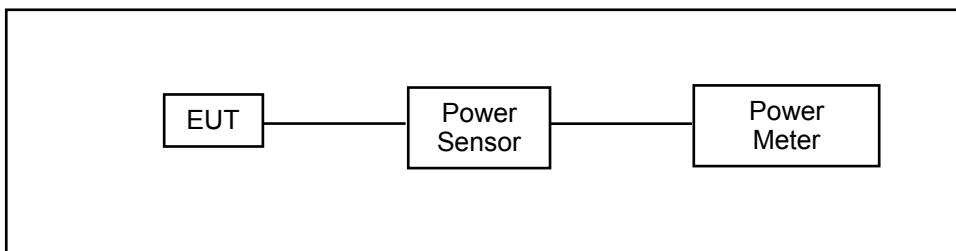
IEEE 802.11b / IEEE 802.11g

\* Directional Gain = Max Gain = 3.3 dBi < 6 dBi

IEEE 802.11n 2.4 GHz 20 MHz / 40 MHz

\* Directional Gain =  $G_{ANT} = 10 \cdot \log([10^{(G1/10)} + 10^{(G2/10)} + \dots + 10^{(Gn/10)}]/N_{ANT}) = 3.47 \text{ dBi} < 6 \text{ dBi}$

#### ■ Test Setup



#### ■ Test Procedure

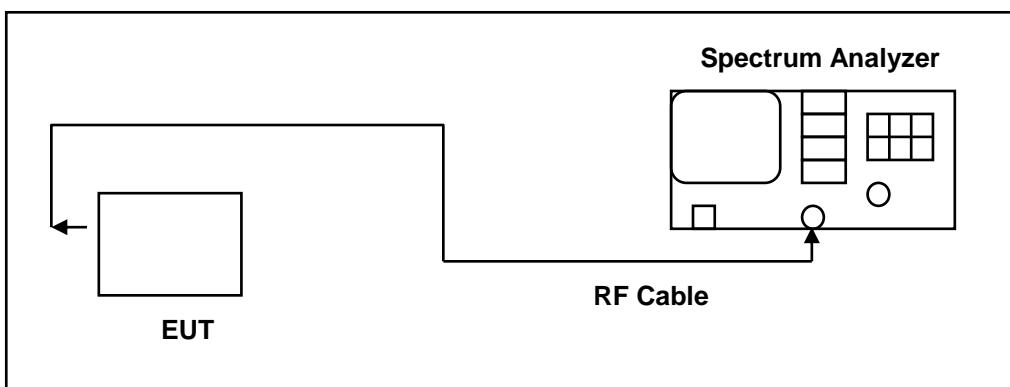
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor.

#### 4.4. 6 dB RF Bandwidth Measurement

- **Limit**

6 dB RF Bandwidth: Systems using digital modulation techniques may operate in the 2400–2483.5 MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

- **Test Setup**



- **Test Procedure**

The EUT tested to DTS test procedure of KDB 558074 D01 for compliance to FCC 47CFR 15.247 requirements.

6 dB RF Bandwidth: The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

The test was performed at 3 channels (Channel low, middle, high)

## 4.5. Maximum Power Density Measurement

### ■ Limit

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.

IEEE 802.11b / IEEE 802.11g

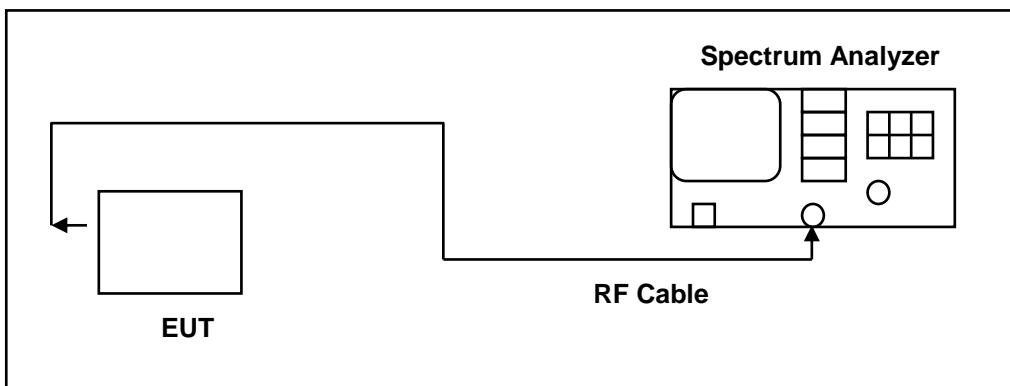
\* Directional Gain = Max Gain = 3.3 dBi < 6 dBi

IEEE 802.11n 2.4 GHz 20 MHz / 40 MHz

\* Directional Gain =  $G_{ANT} = 10 \cdot \log \{ [10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / N_{ANT} \} = 6.48 \text{ dBi} > 6 \text{ dBi}$

\* CDD mode : power limit shall be reduced =  $8 - 0.48 = 7.52 \text{ dBm} / 3 \text{ kHz}$ .

### ■ Test Setup



### ■ Test Procedure

The EUT tested to DTS test procedure of KDB 558074 D01 for compliance to FCC 47CFR 15.247 requirements.

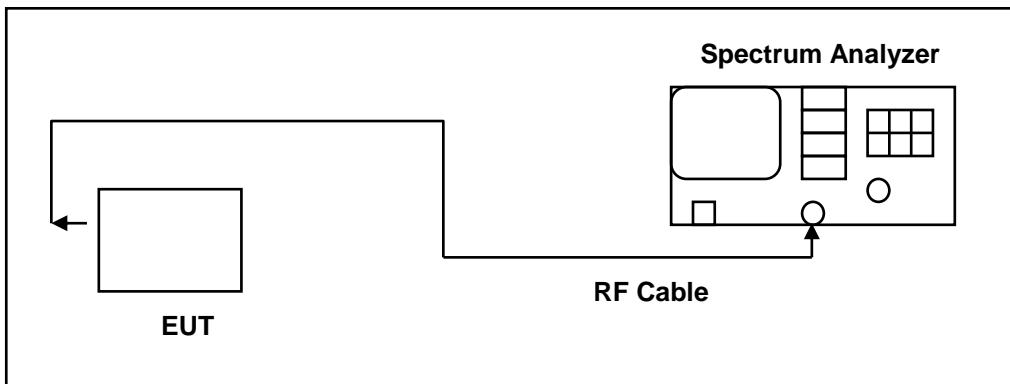
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
4. Set the VBW  $\geq 3 \times \text{RBW}$ .
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

## 4.6. Out of Band Conducted Emissions Measurement

### ■ 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

### ■ Test Setup



### ■ Test Procedure

In any 100 kHz bandwidth outside the EUT pass band, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the pass band.  
The test was performed at 3 channels.

## 4.7. Antenna Measurement

### ■ Limit

For intentional device, according to 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.

And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### ■ Antenna Description

See section 2 – antenna information.

### ■ Directional Gain Calculated

#### For Maximum Conducted Output Power

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11b	3.3
IEEE 802.11g	3.3
IEEE 802.11n 2.4 GHz 20 MHz	3.47
IEEE 802.11n 2.4 GHz 40 MHz	3.47

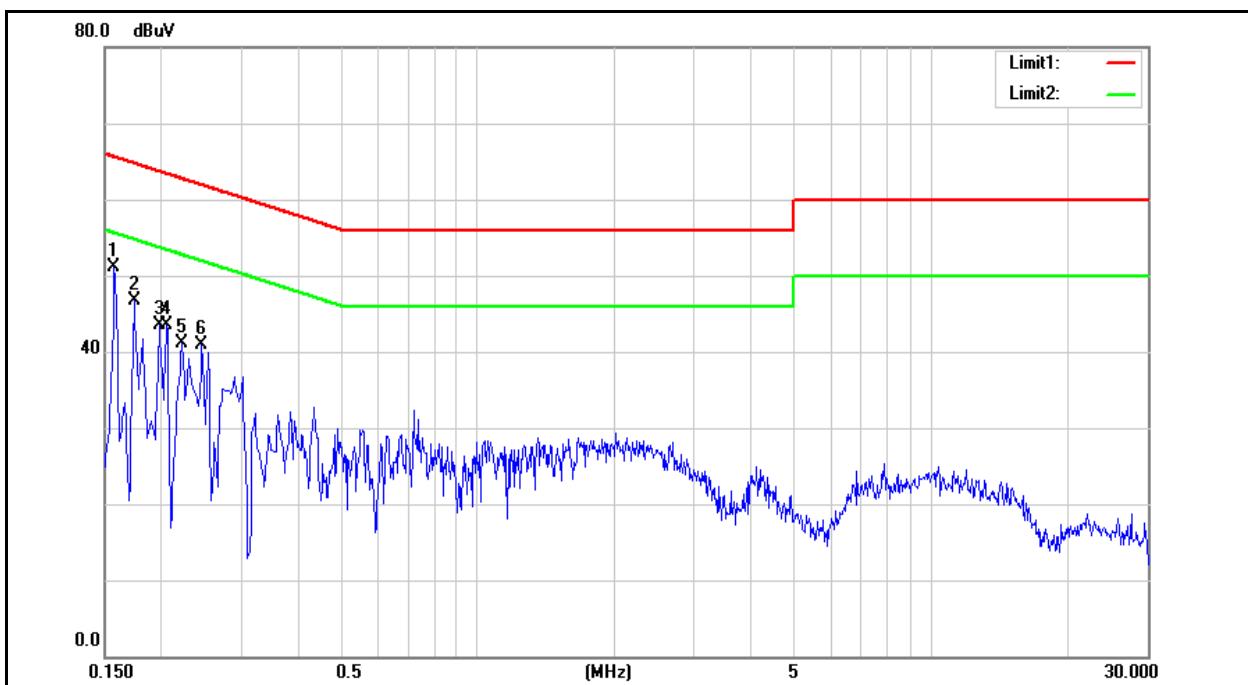
#### For Maximum Power Density

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11b	3.3
IEEE 802.11g	3.3
IEEE 802.11n 2.4 GHz 20 MHz	6.48
IEEE 802.11n 2.4 GHz 40 MHz	6.48

## 5 Test Results

### Annex A. Conducted Emission

Standard:	FCC Part 15.247	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			

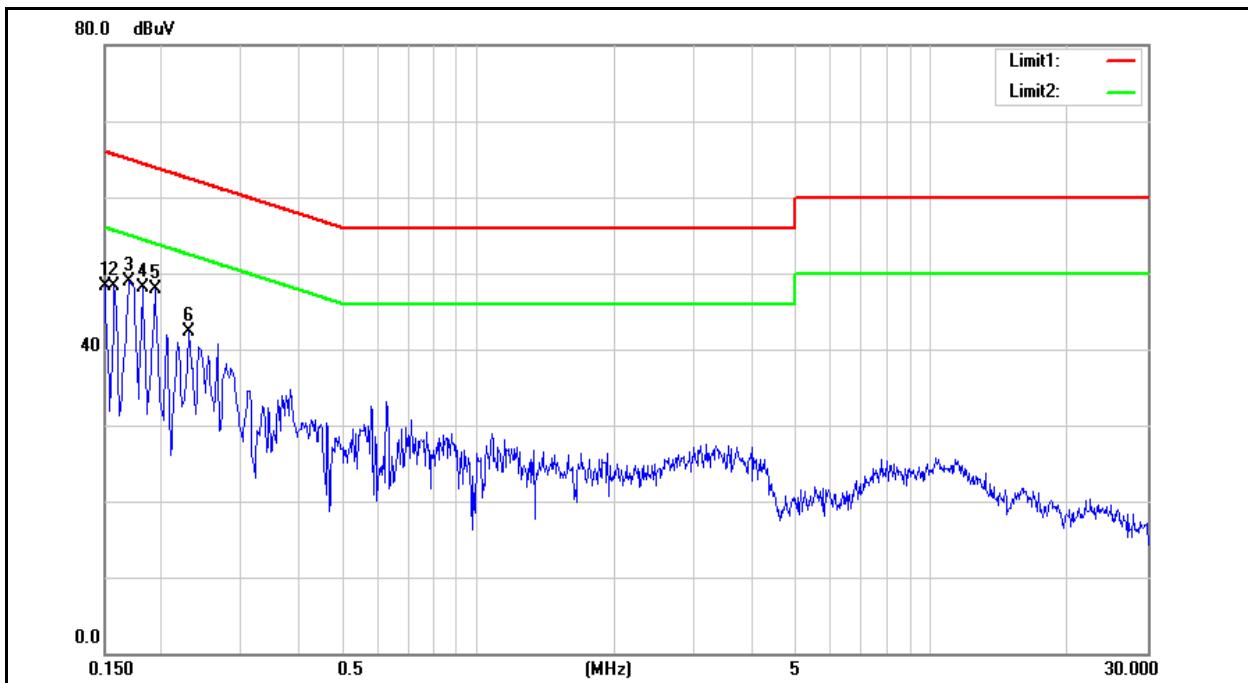


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1580	36.51	18.25	9.60	46.11	27.85	65.57	55.57	-19.46	-27.72	Pass
2	0.1740	32.97	15.25	9.60	42.57	24.85	64.77	54.77	-22.20	-29.92	Pass
3	0.1980	30.58	16.09	9.60	40.18	25.69	63.69	53.69	-23.51	-28.00	Pass
4	0.2060	29.54	11.63	9.60	39.14	21.23	63.37	53.37	-24.23	-32.14	Pass
5	0.2220	28.55	16.74	9.60	38.15	26.34	62.74	52.74	-24.59	-26.40	Pass
6	0.2460	27.23	16.03	9.60	36.83	25.63	61.89	51.89	-25.06	-26.26	Pass

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Standard:	FCC Part 15.247	Line:	N
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	38.54	18.87	9.70	48.24	28.57	66.00	56.00	-17.76	-27.43	Pass
2	0.1580	37.22	18.16	9.71	46.93	27.87	65.57	55.57	-18.64	-27.70	Pass
3	0.1700	35.21	17.55	9.71	44.92	27.26	64.96	54.96	-20.04	-27.70	Pass
4	0.1820	33.93	18.37	9.70	43.63	28.07	64.39	54.39	-20.76	-26.32	Pass
5	0.1940	31.27	17.67	9.70	40.97	27.37	63.86	53.86	-22.89	-26.49	Pass
6	0.2300	28.64	17.04	9.70	38.34	26.74	62.45	52.45	-24.11	-25.71	Pass

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

## Annex B. Conducted Test Results

### Maximum Conducted Output Power Measurement

ANT-0							
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Peak Output Power		
			Measurement Results		Measurement Results		
			dBm	W	dBm	dBm	
Mode 2	2412	1 M	19.72	0.094	22.02	0.159	≤ 30
	2437		21.34	0.136	<b>23.44</b>	<b>0.221</b>	≤ 30
	2462		18.21	0.066	20.58	0.114	≤ 30
	2437	2 M	21.24	0.133	23.37	0.217	≤ 30
	2437	5.5 M	21.22	0.132	23.40	0.219	≤ 30
	2437	11 M	21.18	0.131	23.35	0.216	≤ 30
Mode 3	2412	6 M	16.94	0.049	22.82	0.191	≤ 30
	2437		22.41	0.174	<b>25.43</b>	<b>0.349</b>	≤ 30
	2462		15.86	0.039	22.09	0.162	≤ 30
	2437	9 M	22.31	0.170	25.40	0.347	≤ 30
	2437	12 M	22.28	0.169	25.39	0.346	≤ 30
	2437	18 M	22.29	0.169	25.30	0.339	≤ 30
	2437	24 M	22.30	0.170	25.35	0.343	≤ 30
	2437	36 M	22.31	0.170	25.34	0.342	≤ 30
	2437	48 M	22.35	0.172	25.35	0.343	≤ 30
	2437	54 M	22.36	0.172	25.38	0.345	≤ 30

Note: The relevant measured result has the offset with cable loss already.

ANT-0							
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Peak Output Power		
			Measurement Results		Measurement Results		Limit
			dBm	W	dBm	W	dBm
Mode 4	2412	13 M	13.40	0.022	20.37	0.109	≤ 30
	2437		21.76	0.150	25.16	0.328	≤ 30
	2462		10.48	0.011	16.68	0.047	≤ 30
	2437	28.8 M	21.68	0.147	25.10	0.324	≤ 30
	2437	43.4 M	21.65	0.146	25.09	0.323	≤ 30
	2437	57.8 M	21.69	0.148	25.08	0.322	≤ 30
	2437	86.6 M	21.65	0.146	25.07	0.321	≤ 30
	2437	115.6 M	21.61	0.145	25.10	0.324	≤ 30
	2437	130 M	21.64	0.146	25.07	0.321	≤ 30
	2437	144.4 M	21.67	0.147	25.06	0.321	≤ 30
Mode 5	2422	27 M	7.87	0.006	14.98	0.031	≤ 30
	2437		13.36	0.022	19.80	0.095	≤ 30
	2452		7.98	0.006	14.47	0.028	≤ 30
	2437	60 M	13.21	0.021	19.70	0.093	≤ 30
	2437	90 M	13.26	0.021	19.69	0.093	≤ 30
	2437	120 M	13.28	0.021	19.71	0.094	≤ 30
	2437	180 M	13.30	0.021	19.72	0.094	≤ 30
	2437	240 M	13.28	0.021	19.70	0.093	≤ 30
	2437	270 M	13.29	0.021	19.73	0.094	≤ 30
	2437	300 M	13.32	0.021	19.74	0.094	≤ 30

Note: The relevant measured result has the offset with cable loss already.

ANT-1							
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Peak Output Power		
			Measurement Results		Measurement Results		Limit
			dBm	W	dBm	W	dBm
Mode 4	2412	13 M	8.98	0.008	15.62	0.036	≤ 30
	2437		17.53	0.057	20.90	0.123	≤ 30
	2462		9.41	0.009	15.69	0.037	≤ 30
	2437	28.8 M	17.38	0.055	20.80	0.120	≤ 30
	2437	43.4 M	17.40	0.055	20.79	0.120	≤ 30
	2437	57.8 M	17.43	0.055	20.81	0.121	≤ 30
	2437	86.6 M	17.44	0.055	20.78	0.120	≤ 30
	2437	115.6 M	17.43	0.055	20.82	0.121	≤ 30
	2437	130 M	17.45	0.056	20.83	0.121	≤ 30
	2437	144.4 M	17.44	0.055	20.82	0.121	≤ 30
Mode 5	2422	27 M	6.78	0.005	13.31	0.021	≤ 30
	2437		8.86	0.008	15.78	0.038	≤ 30
	2452		6.35	0.004	13.07	0.020	≤ 30
	2437	60 M	8.75	0.007	15.68	0.037	≤ 30
	2437	90 M	8.80	0.008	15.60	0.036	≤ 30
	2437	120 M	8.81	0.008	15.62	0.036	≤ 30
	2437	180 M	8.79	0.008	15.63	0.037	≤ 30
	2437	240 M	8.79	0.008	15.66	0.037	≤ 30
	2437	270 M	8.80	0.008	15.65	0.037	≤ 30
	2437	300 M	8.77	0.008	15.70	0.037	≤ 30

Note: The relevant measured result has the offset with cable loss already.

ANT-0+1							
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		Peak Output Power		
			Measurement Results		Measurement Results		Limit
			dBm	W	dBm	W	dBm
Mode 4	2412	13 M	14.74	0.030	21.62	0.145	≤ 30
	2437		23.15	0.207	<b>26.54</b>	<b>0.451</b>	≤ 30
	2462		12.99	0.020	19.22	0.084	≤ 30
	2437	28.8 M	23.05	0.202	26.47	0.444	≤ 30
	2437	43.4 M	23.04	0.201	26.46	0.443	≤ 30
	2437	57.8 M	23.07	0.203	26.46	0.443	≤ 30
	2437	86.6 M	23.05	0.202	26.44	0.441	≤ 30
	2437	115.6 M	23.01	0.200	26.48	0.444	≤ 30
	2437	130 M	23.04	0.201	26.46	0.442	≤ 30
	2437	144.4 M	23.06	0.202	26.45	0.441	≤ 30
Mode 5	2422	27 M	10.37	0.011	17.24	0.053	≤ 30
	2437		14.68	0.029	<b>21.25</b>	<b>0.133</b>	≤ 30
	2452		10.25	0.011	16.84	0.048	≤ 30
	2437	60 M	14.54	0.028	21.15	0.130	≤ 30
	2437	90 M	14.59	0.029	21.12	0.129	≤ 30
	2437	120 M	14.61	0.029	21.14	0.130	≤ 30
	2437	180 M	14.62	0.029	21.15	0.130	≤ 30
	2437	240 M	14.60	0.029	21.14	0.130	≤ 30
	2437	270 M	14.61	0.029	21.16	0.131	≤ 30
	2437	300 M	14.63	0.029	21.18	0.131	≤ 30

Note: The relevant measured result has the offset with cable loss already.

### 6 dB RF Bandwidth Measurement

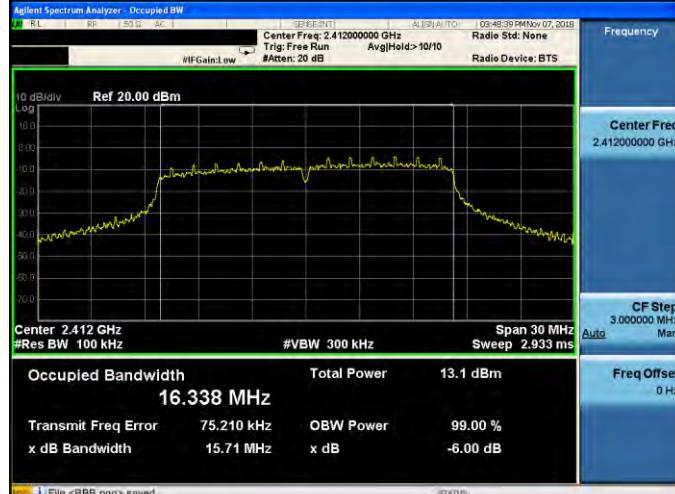
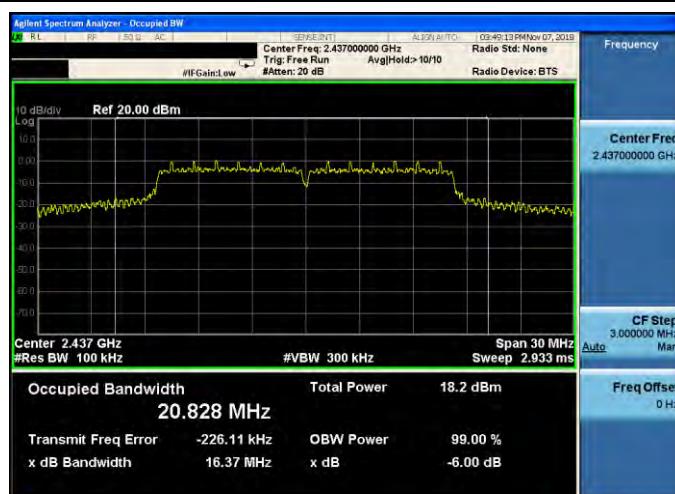
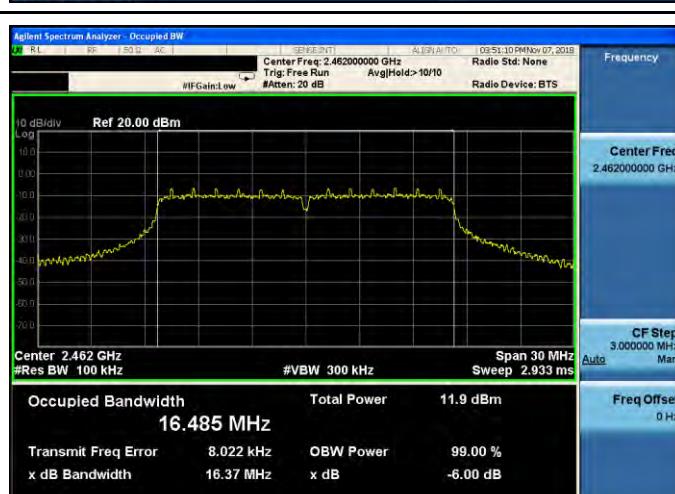
Test Mode	Frequency (MHz)	Measurement (kHz)		Limit (kHz)
		ANT-0	ANT-1	
Mode 2	2412	9602	---	≥ 500
	2437	10110	---	≥ 500
	2462	10120	---	≥ 500
Mode 3	2412	15710	---	≥ 500
	2437	16370	---	≥ 500
	2462	16370	---	≥ 500
Mode 4	2412	16320	16370	≥ 500
	2437	17580	17690	≥ 500
	2462	17610	17740	≥ 500
Mode 5	2422	35400	36400	≥ 500
	2437	35510	36420	≥ 500
	2452	36280	35750	≥ 500

## ■ Test Graphs

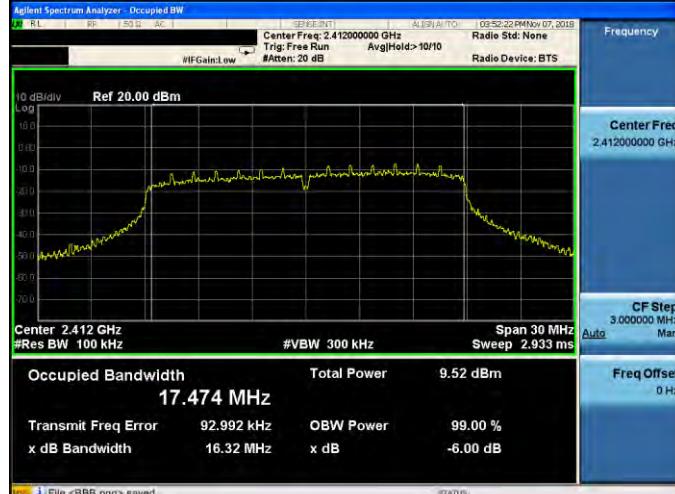
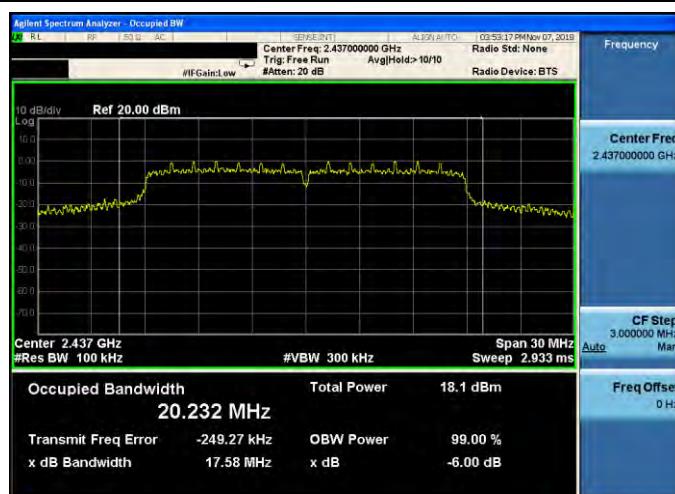
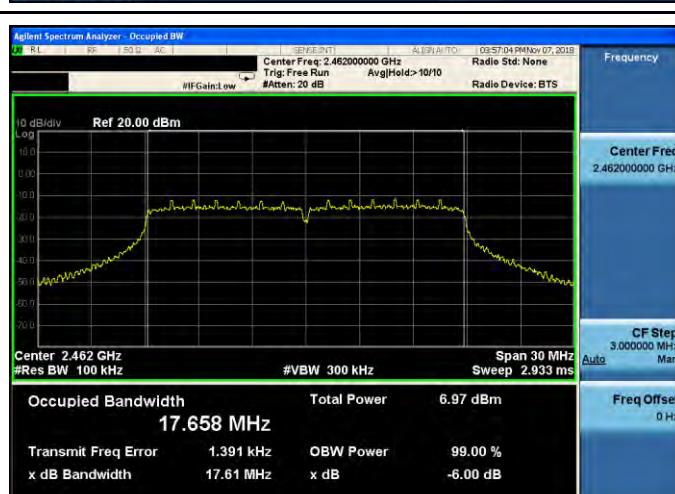
Mode 2: IEEE 802.11b Continuous TX mode\_ANT-0



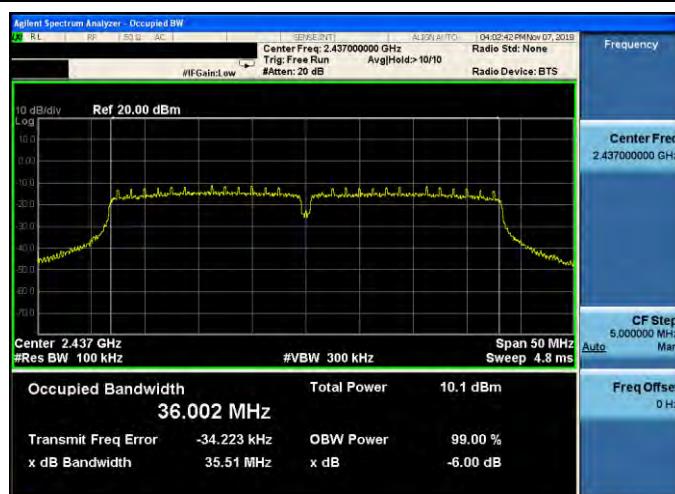
## Mode 3: IEEE 802.11g Continuous TX mode\_ANT-0

2412 MHz	 <p><b>Occupied Bandwidth</b> <b>16.338 MHz</b></p> <p><b>Transmit Freq Error</b> 75.210 kHz    <b>OBW Power</b> 99.00 %  <b>x dB Bandwidth</b> 15.71 MHz    <b>x dB</b> -6.00 dB</p>
2437 MHz	 <p><b>Occupied Bandwidth</b> <b>20.828 MHz</b></p> <p><b>Transmit Freq Error</b> -226.11 kHz    <b>OBW Power</b> 99.00 %  <b>x dB Bandwidth</b> 16.37 MHz    <b>x dB</b> -6.00 dB</p>
2462 MHz	 <p><b>Occupied Bandwidth</b> <b>16.485 MHz</b></p> <p><b>Transmit Freq Error</b> 8.022 kHz    <b>OBW Power</b> 99.00 %  <b>x dB Bandwidth</b> 16.37 MHz    <b>x dB</b> -6.00 dB</p>

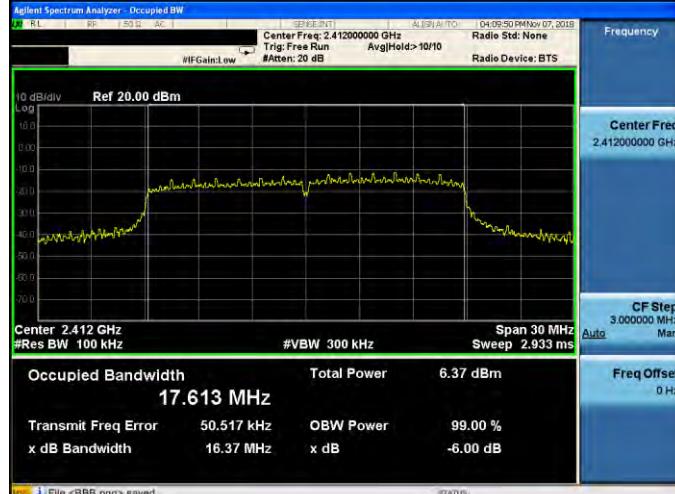
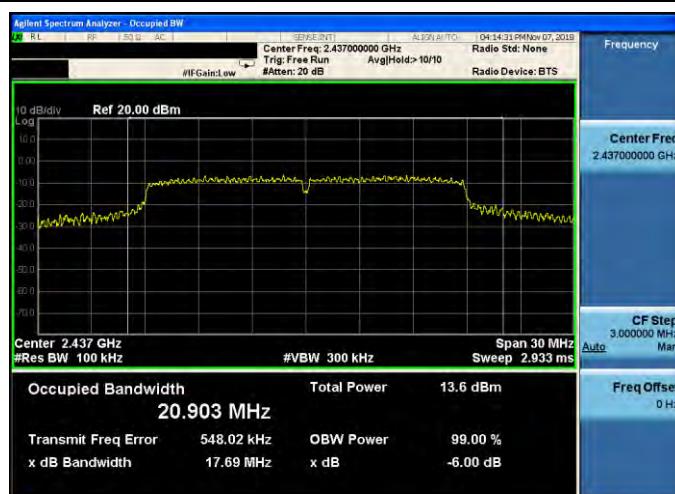
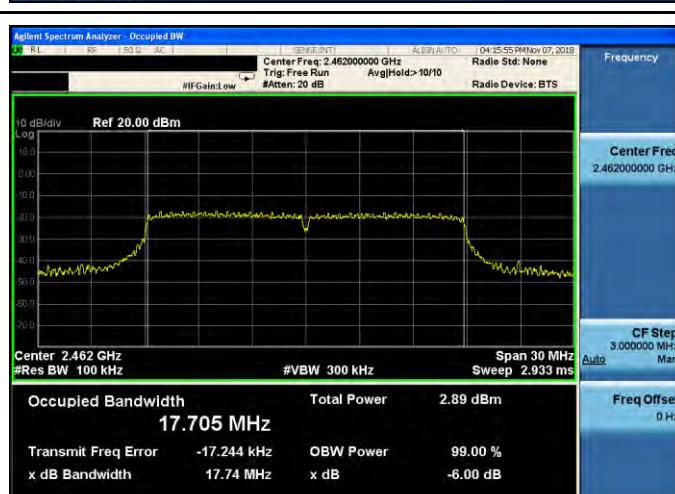
## Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode\_ANT-0

2412 MHz	 <p><b>Occupied Bandwidth</b> 17.474 MHz  <b>Total Power</b> 9.52 dBm  <b>Transmit Freq Error</b> 92.992 kHz  <b>x dB Bandwidth</b> 16.32 MHz  <b>OBW Power</b> 99.00 %  <b>x dB</b> -6.00 dB</p>
2437 MHz	 <p><b>Occupied Bandwidth</b> 20.232 MHz  <b>Total Power</b> 18.1 dBm  <b>Transmit Freq Error</b> -249.27 kHz  <b>x dB Bandwidth</b> 17.58 MHz  <b>OBW Power</b> 99.00 %  <b>x dB</b> -6.00 dB</p>
2462 MHz	 <p><b>Occupied Bandwidth</b> 17.658 MHz  <b>Total Power</b> 6.97 dBm  <b>Transmit Freq Error</b> 1.391 kHz  <b>x dB Bandwidth</b> 17.61 MHz  <b>OBW Power</b> 99.00 %  <b>x dB</b> -6.00 dB</p>

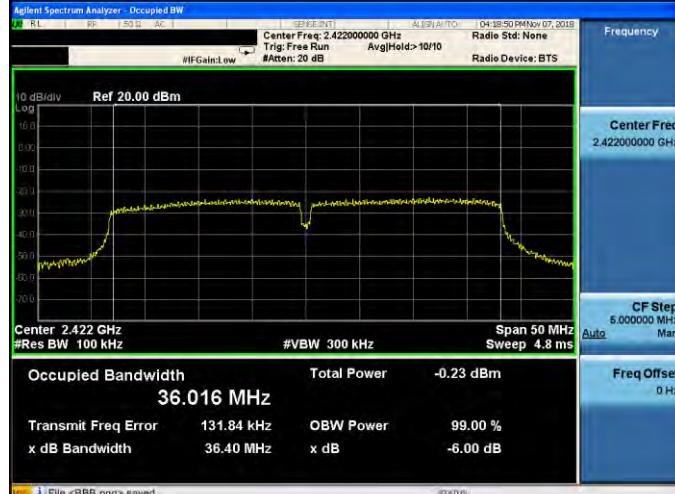
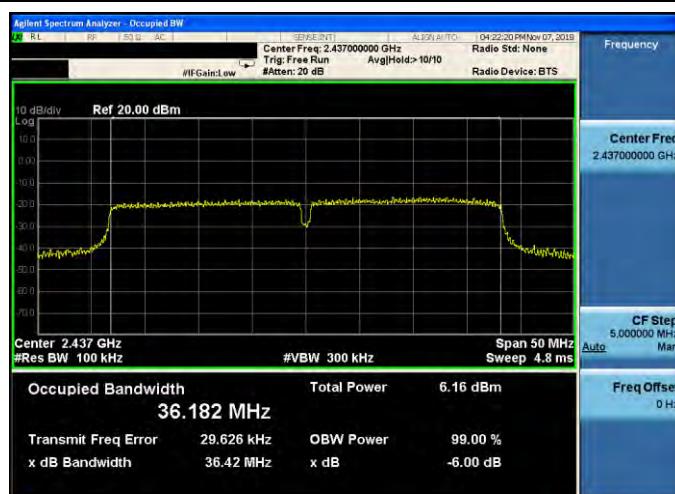
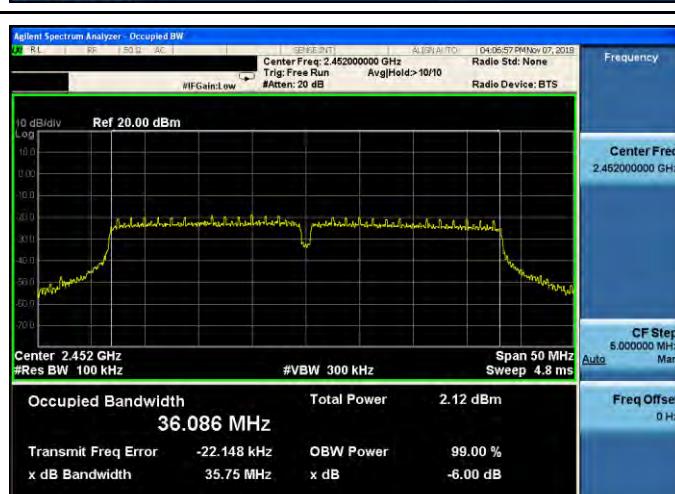
## Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode\_ANT-0

2422 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.422000000 GHz Trig: Free Run Avg Hold&gt;10/10 Radio Std: None Radio Device: BTS</p> <p>Frequency: 2.422000000 GHz</p> <p>CF Step: 5.000000 MHz Auto: Man</p> <p>Freq Offset: 0 Hz</p> <p>10 dB/div Ref 20.00 dBm</p> <p>Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 50 MHz Sweep 4.8 ms</p> <p>Occupied Bandwidth: 35.695 MHz Total Power: 4.18 dBm</p> <p>Transmit Freq Error: 200.13 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 35.40 MHz x dB: -6.00 dB</p> <p>File &lt;BBB.png&gt; saved</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz Trig: Free Run Avg Hold&gt;10/10 Radio Std: None Radio Device: BTS</p> <p>Frequency: 2.437000000 GHz</p> <p>CF Step: 5.000000 MHz Auto: Man</p> <p>Freq Offset: 0 Hz</p> <p>10 dB/div Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 50 MHz Sweep 4.8 ms</p> <p>Occupied Bandwidth: 36.002 MHz Total Power: 10.1 dBm</p> <p>Transmit Freq Error: -34.223 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 35.51 MHz x dB: -6.00 dB</p> <p>File &lt;BBB.png&gt; saved</p>
2452 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.452000000 GHz Trig: Free Run Avg Hold&gt;10/10 Radio Std: None Radio Device: BTS</p> <p>Frequency: 2.452000000 GHz</p> <p>CF Step: 5.000000 MHz Auto: Man</p> <p>Freq Offset: 0 Hz</p> <p>10 dB/div Ref 20.00 dBm</p> <p>Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 50 MHz Sweep 4.8 ms</p> <p>Occupied Bandwidth: 36.165 MHz Total Power: 4.59 dBm</p> <p>Transmit Freq Error: -27.027 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 36.28 MHz x dB: -6.00 dB</p> <p>File &lt;BBB.png&gt; saved</p>

## Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode\_ANT-1

2412 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz Trig: Free Run Avg Hold&gt;10/10 Radio Std: None Radio Device: BTS</p> <p>Frequency: 2.412000000 GHz</p> <p>CF Step: 3.000000 MHz Auto: Man</p> <p>Freq Offset: 0 Hz</p> <p>10 dB/div Log</p> <p>Ref 20.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth: <b>17.613 MHz</b></p> <p>Total Power: 6.37 dBm</p> <p>Transmit Freq Error: 50.517 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 16.37 MHz x dB: -6.00 dB</p> <p>File &lt;BBB.png&gt; saved</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz Trig: Free Run Avg Hold&gt;10/10 Radio Std: None Radio Device: BTS</p> <p>Frequency: 2.437000000 GHz</p> <p>CF Step: 3.000000 MHz Auto: Man</p> <p>Freq Offset: 0 Hz</p> <p>10 dB/div Log</p> <p>Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth: <b>20.903 MHz</b></p> <p>Total Power: 13.6 dBm</p> <p>Transmit Freq Error: 548.02 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 17.69 MHz x dB: -6.00 dB</p> <p>File &lt;BBB.png&gt; saved</p>
2462 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz Trig: Free Run Avg Hold&gt;10/10 Radio Std: None Radio Device: BTS</p> <p>Frequency: 2.462000000 GHz</p> <p>CF Step: 3.000000 MHz Auto: Man</p> <p>Freq Offset: 0 Hz</p> <p>10 dB/div Log</p> <p>Ref 20.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth: <b>17.705 MHz</b></p> <p>Total Power: 2.89 dBm</p> <p>Transmit Freq Error: -17.244 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 17.74 MHz x dB: -6.00 dB</p> <p>File &lt;BBB.png&gt; saved</p>

## Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode\_ANT-1

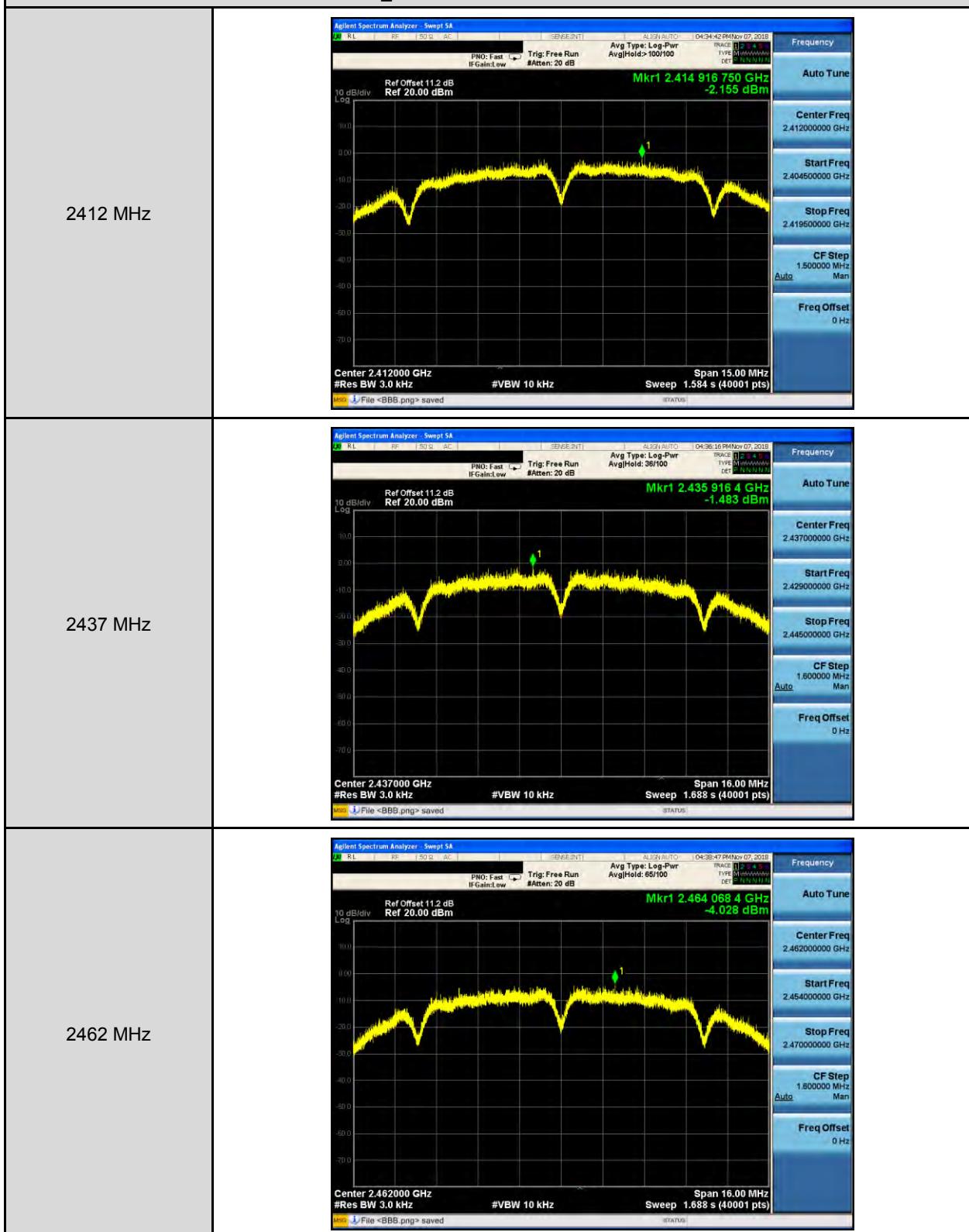
2422 MHz	 <p><b>Occupied Bandwidth</b> 36.016 MHz</p> <p>Transmit Freq Error 131.84 kHz</p> <p>x dB Bandwidth 36.40 MHz</p> <p><b>Total Power</b> -0.23 dBm</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p>
2437 MHz	 <p><b>Occupied Bandwidth</b> 36.182 MHz</p> <p>Transmit Freq Error 29.626 kHz</p> <p>x dB Bandwidth 36.42 MHz</p> <p><b>Total Power</b> 6.16 dBm</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p>
2452 MHz	 <p><b>Occupied Bandwidth</b> 36.086 MHz</p> <p>Transmit Freq Error -22.148 kHz</p> <p>x dB Bandwidth 35.75 MHz</p> <p><b>Total Power</b> 2.12 dBm</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p>

**Maximum Power Density Measurement**

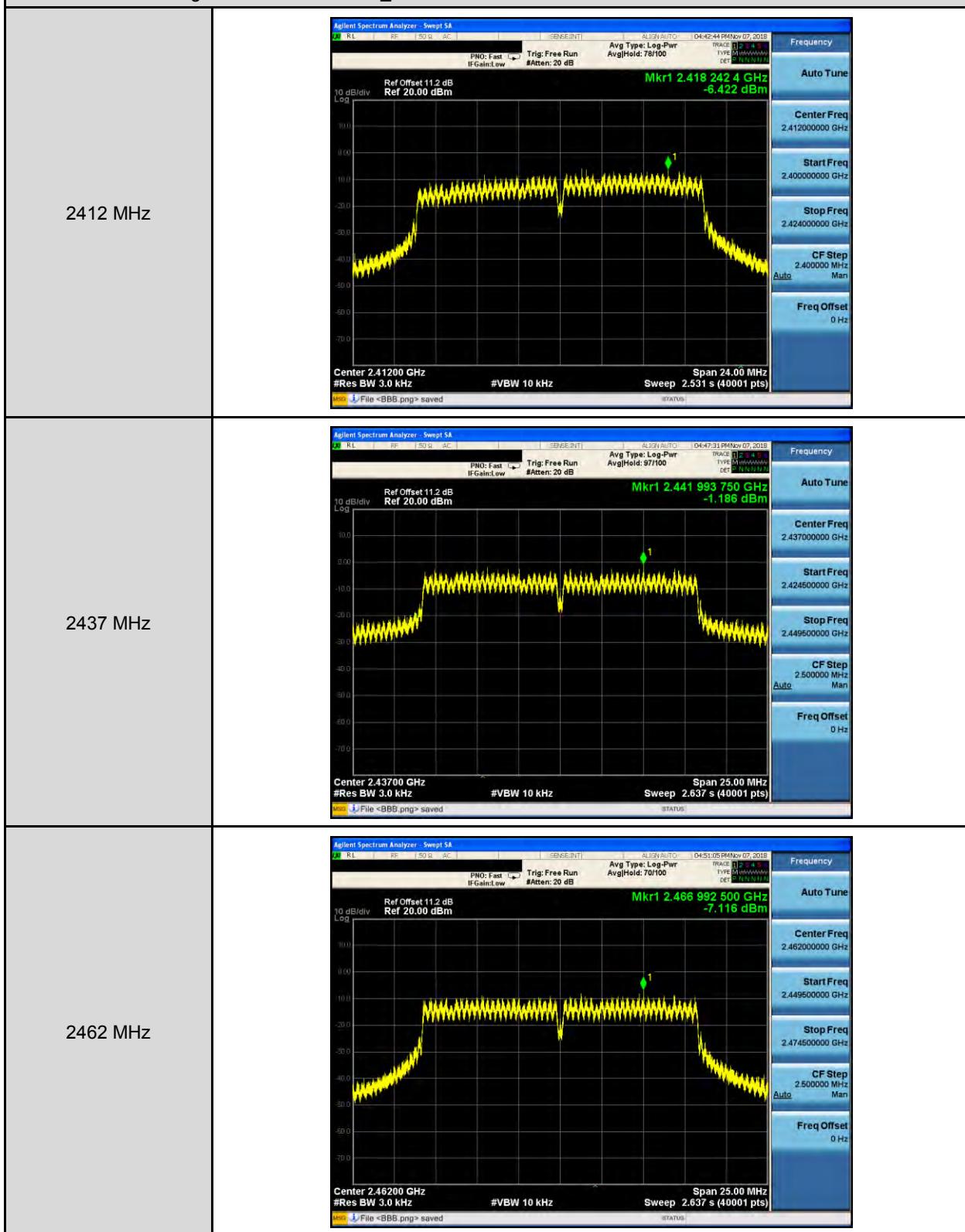
Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)			Limit (dBm/3 kHz)
		ANT-0	ANT-1	ANT-0+1	
Mode 2	2412	-2.155	---	---	≤ 8
	2437	-1.483	---	---	≤ 8
	2462	-4.028	---	---	≤ 8
Mode 3	2412	-6.422	---	---	≤ 8
	2437	-1.186	---	---	≤ 8
	2462	-7.116	---	---	≤ 8
Mode 4	2412	-10.752	-14.266	-9.153	≤ 7.52
	2437	-3.577	-6.386	-1.748	≤ 7.52
	2462	-14.404	-16.237	-12.214	≤ 7.52
Mode 5	2422	-19.742	-23.112	-18.098	≤ 7.52
	2437	-14.781	-17.251	-12.832	≤ 7.52
	2452	-19.731	-23.143	-18.100	≤ 7.52

## ■ Test Graphs

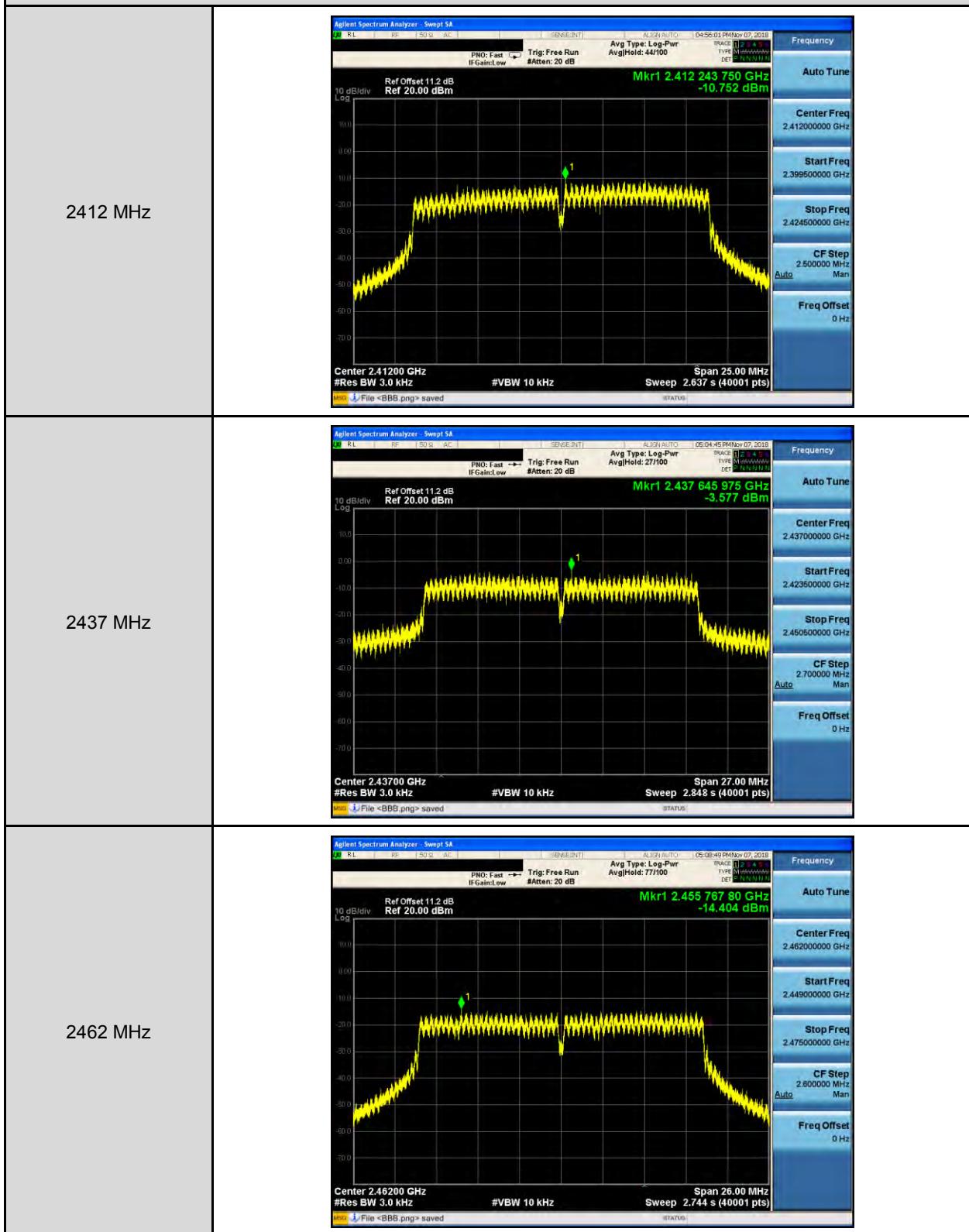
Mode 2: IEEE 802.11b Continuous TX mode\_ANT-0



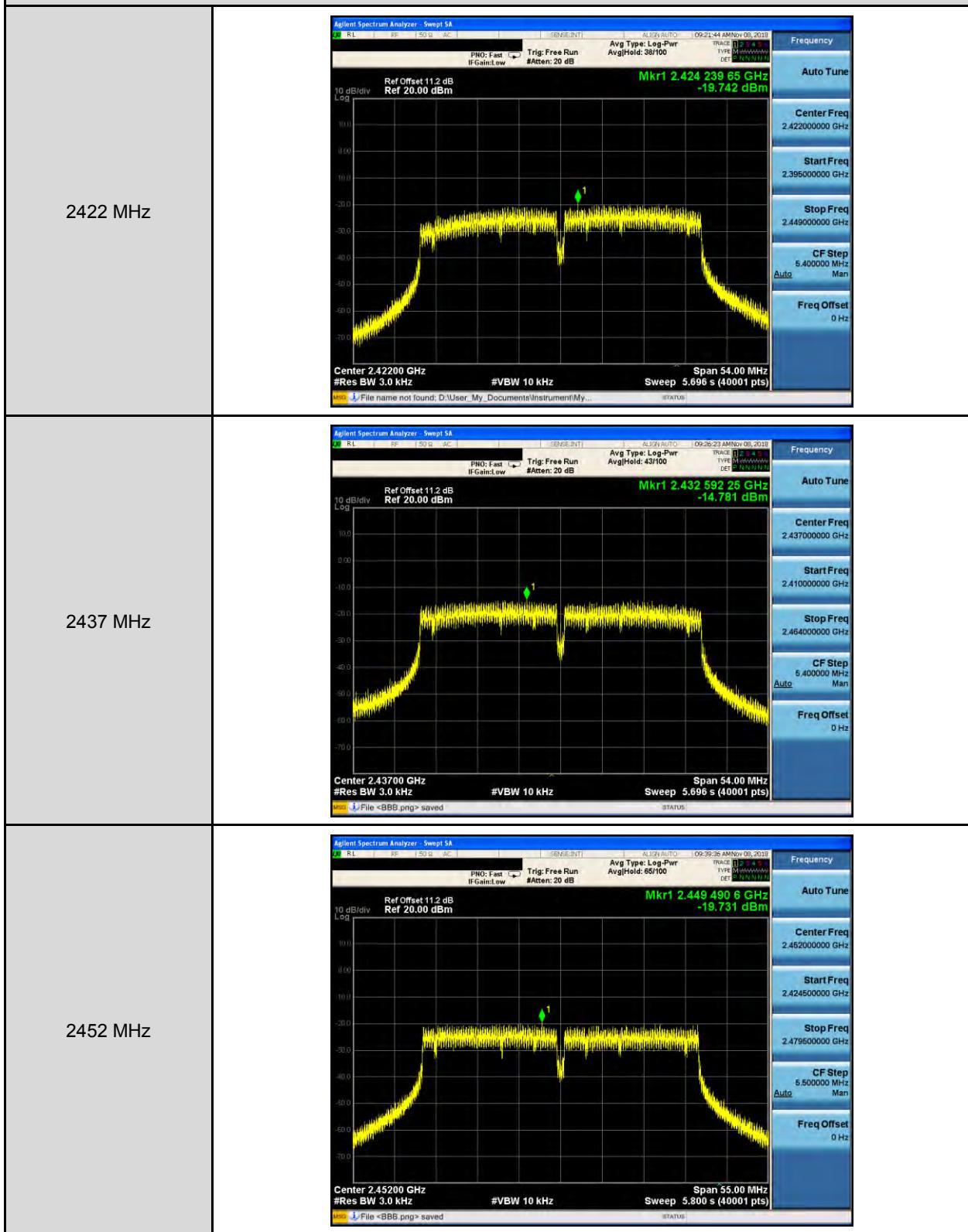
## Mode 3: IEEE 802.11g Continuous TX mode\_ANT-0



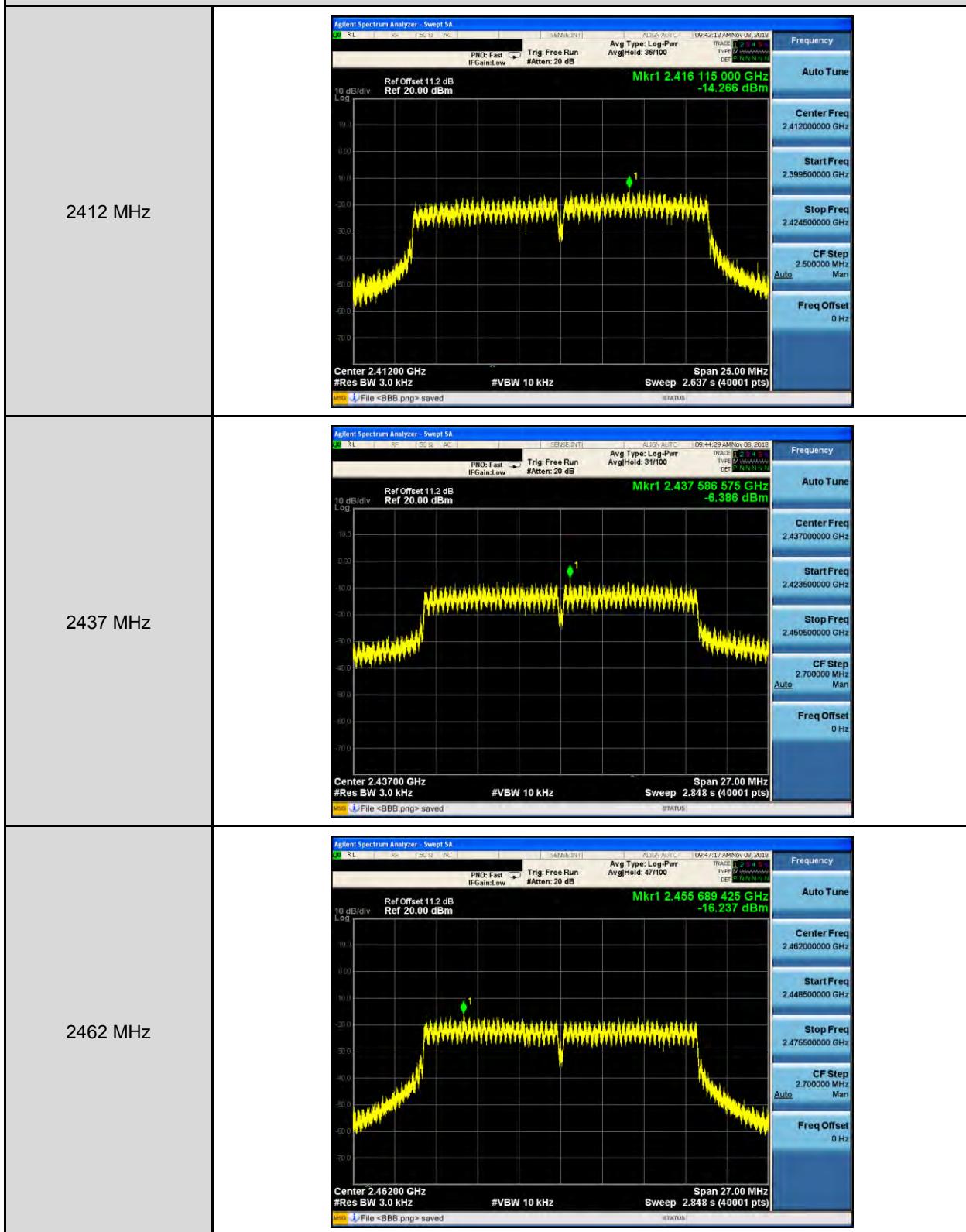
## Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode\_ANT-0



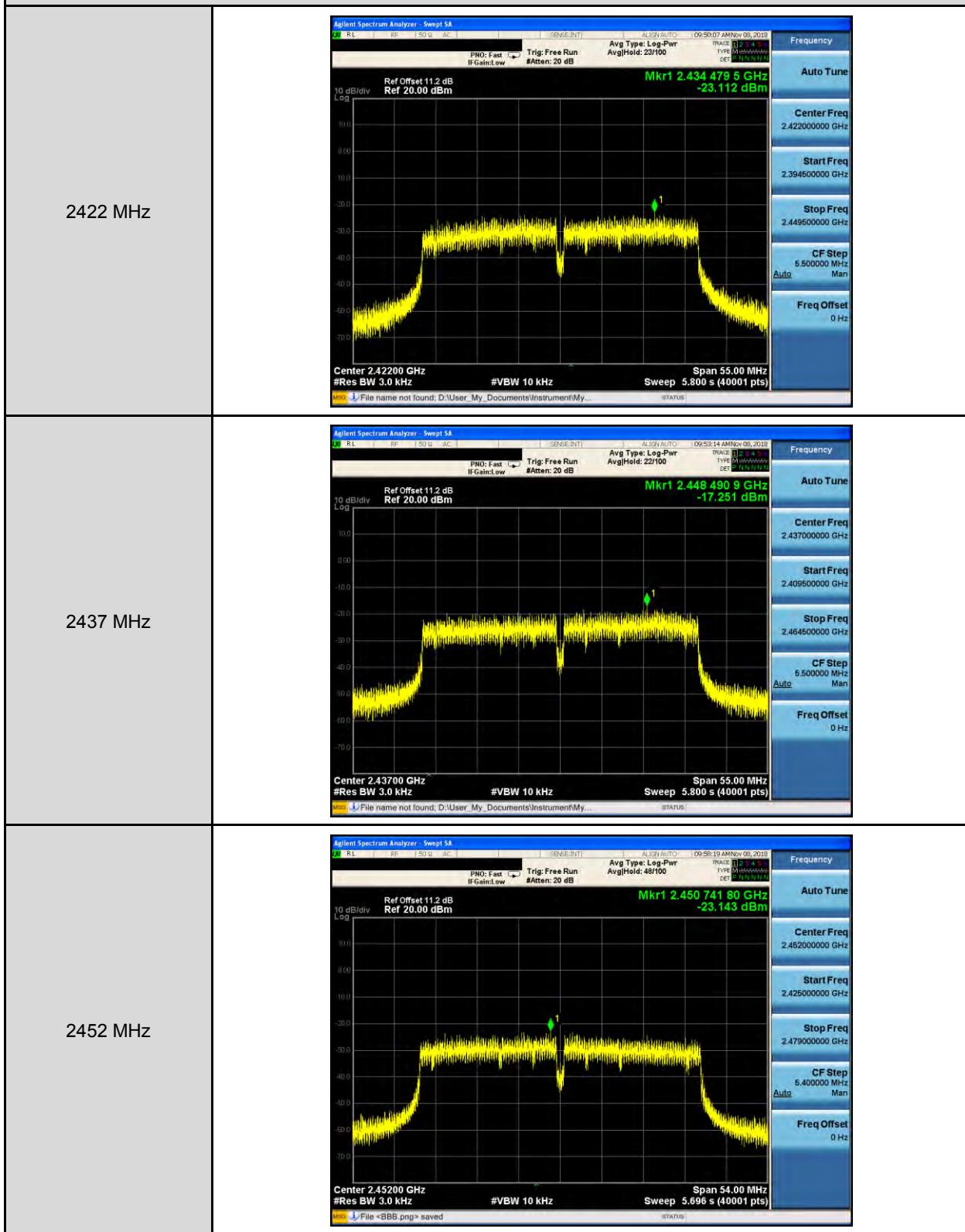
## Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode\_ANT-0



## Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode\_ANT-1



## Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode\_ANT-1

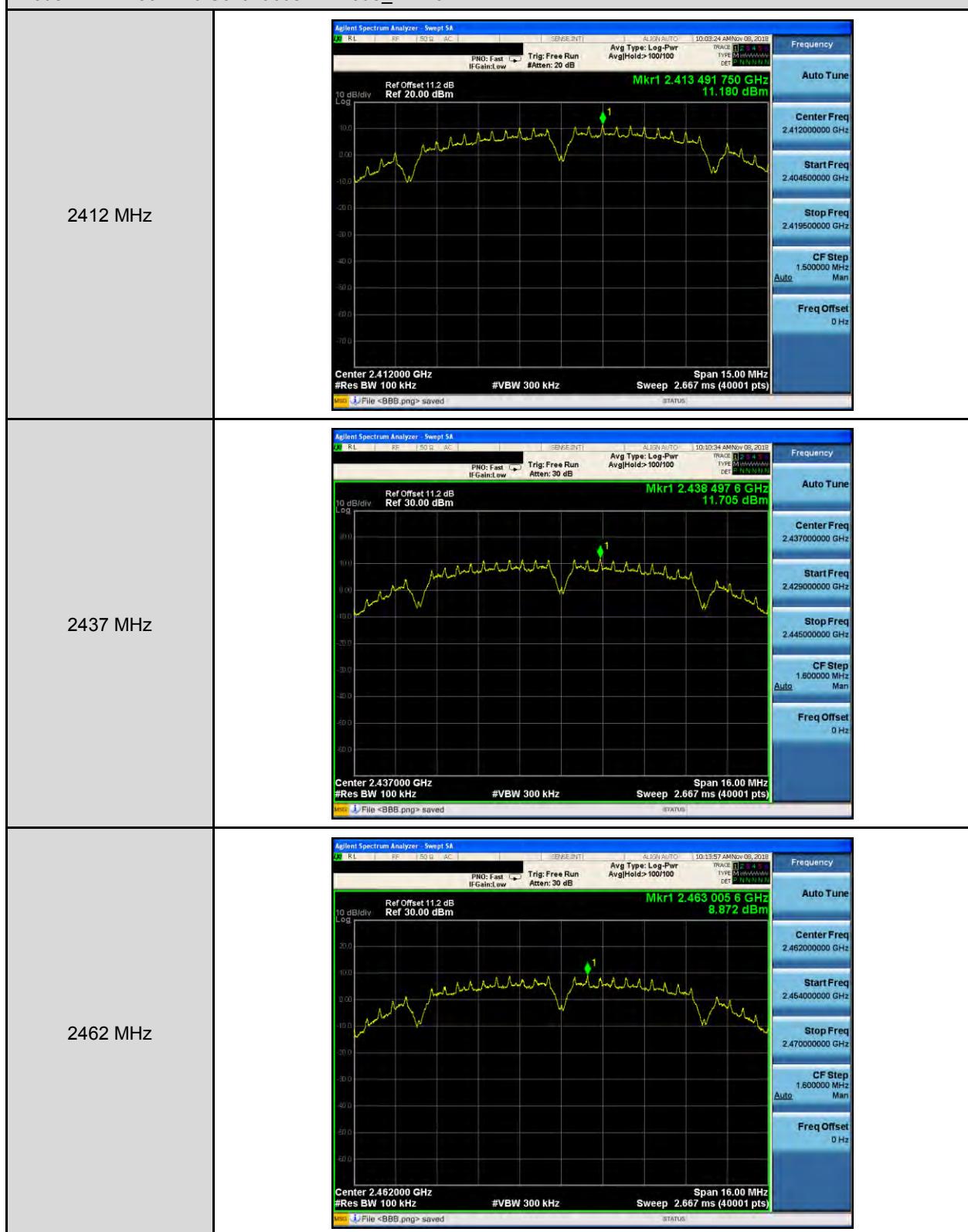


## Out of Band Conducted Emissions Measurement

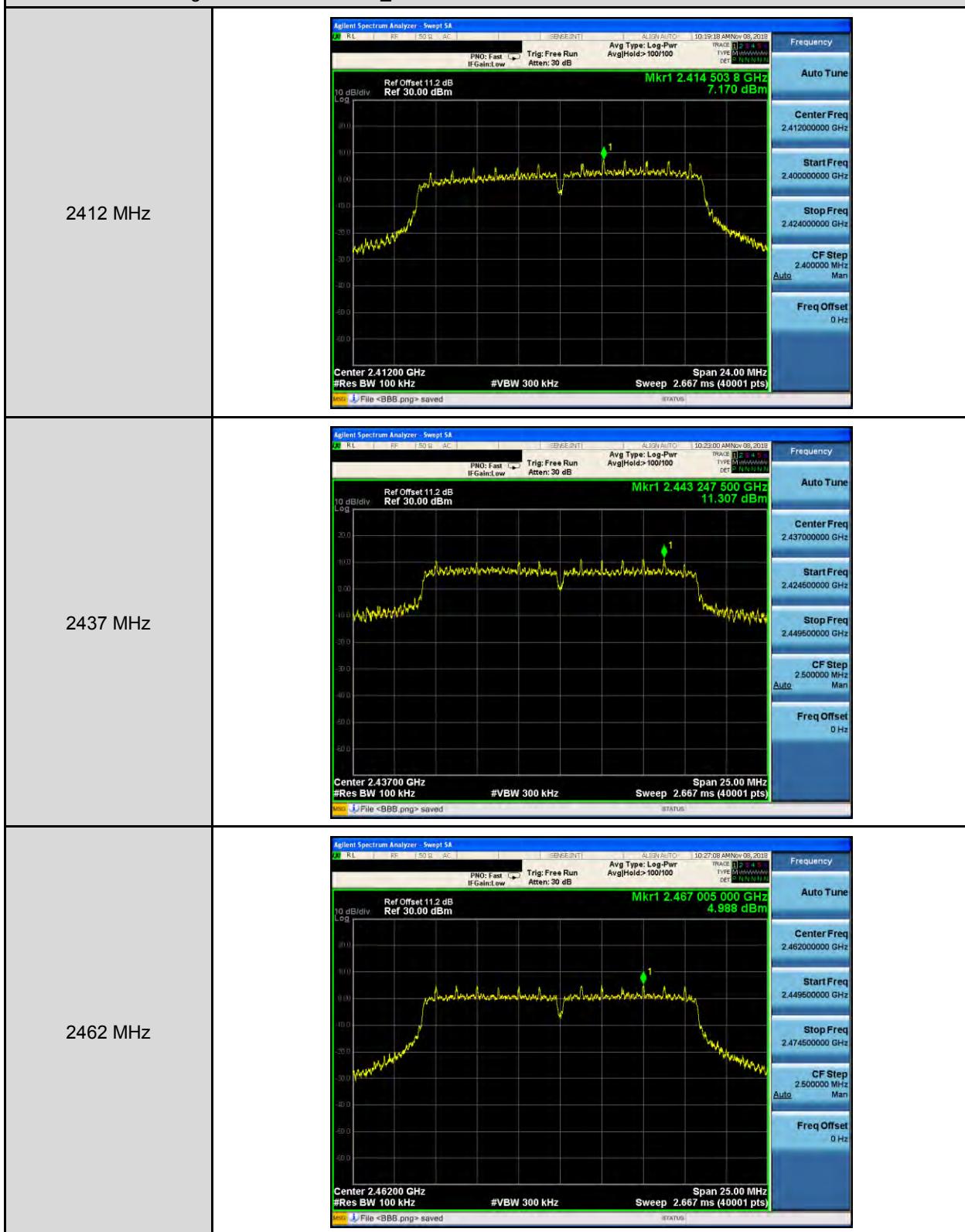
### ■ Test Graphs

#### Reference level

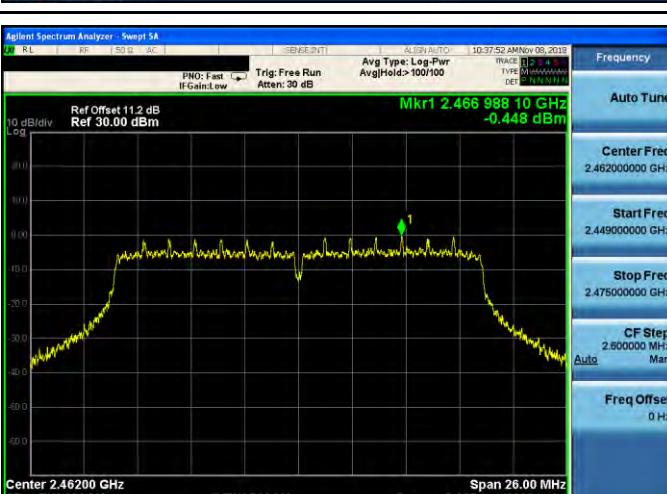
Mode 2: IEEE 802.11b Continuous TX mode\_ANT-0



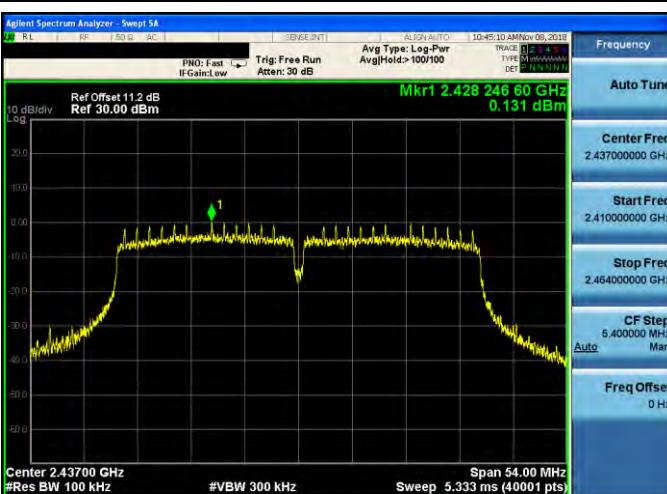
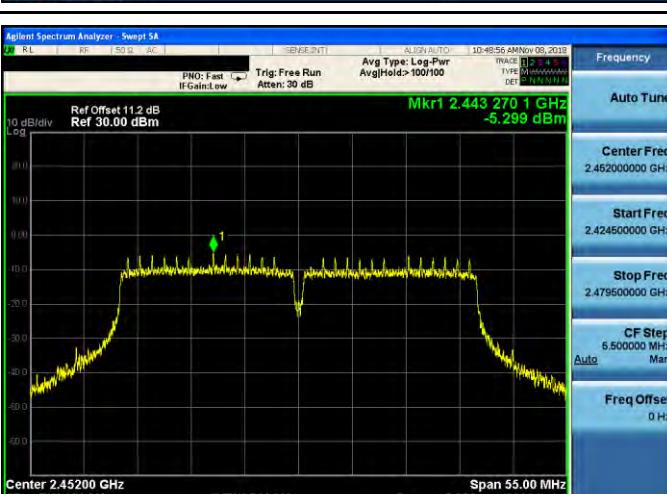
## Mode 3: IEEE 802.11g Continuous TX mode\_ANT-0



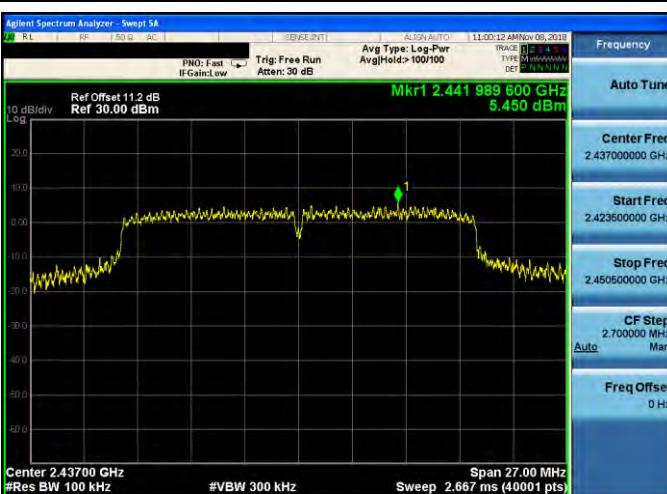
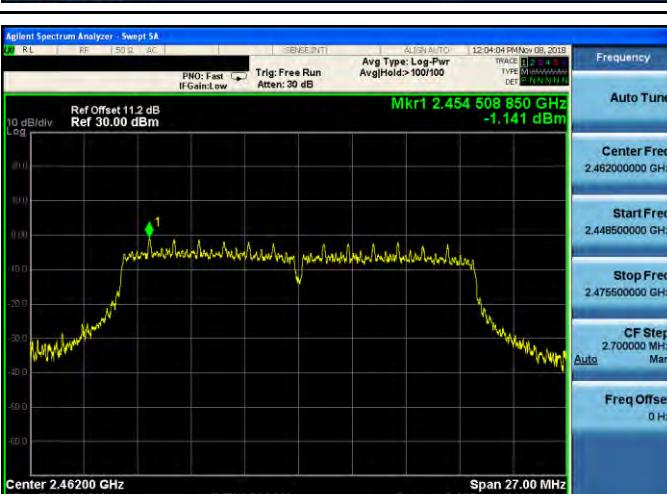
## Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode\_ANT-0

2412 MHz	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 11.2 dB Ref 30.00 dBm</p> <p>Center 2.41200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.418 245 000 GHZ 3.459 dBm</p> <p>Frequency Auto Tune</p> <p>Center Freq 2.41200000 GHz</p> <p>Start Freq 2.399500000 GHz</p> <p>Stop Freq 2.424500000 GHz</p> <p>CF Step 2.500000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 11.2 dB Ref 30.00 dBm</p> <p>Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.431 987 450 GHZ 11.192 dBm</p> <p>Frequency Auto Tune</p> <p>Center Freq 2.43700000 GHz</p> <p>Start Freq 2.423500000 GHz</p> <p>Stop Freq 2.450500000 GHz</p> <p>CF Step 2.700000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
2462 MHz	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 11.2 dB Ref 30.00 dBm</p> <p>Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Mkr1 2.466 988 10 GHZ -0.448 dBm</p> <p>Frequency Auto Tune</p> <p>Center Freq 2.46200000 GHz</p> <p>Start Freq 2.449000000 GHz</p> <p>Stop Freq 2.475000000 GHz</p> <p>CF Step 2.800000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>

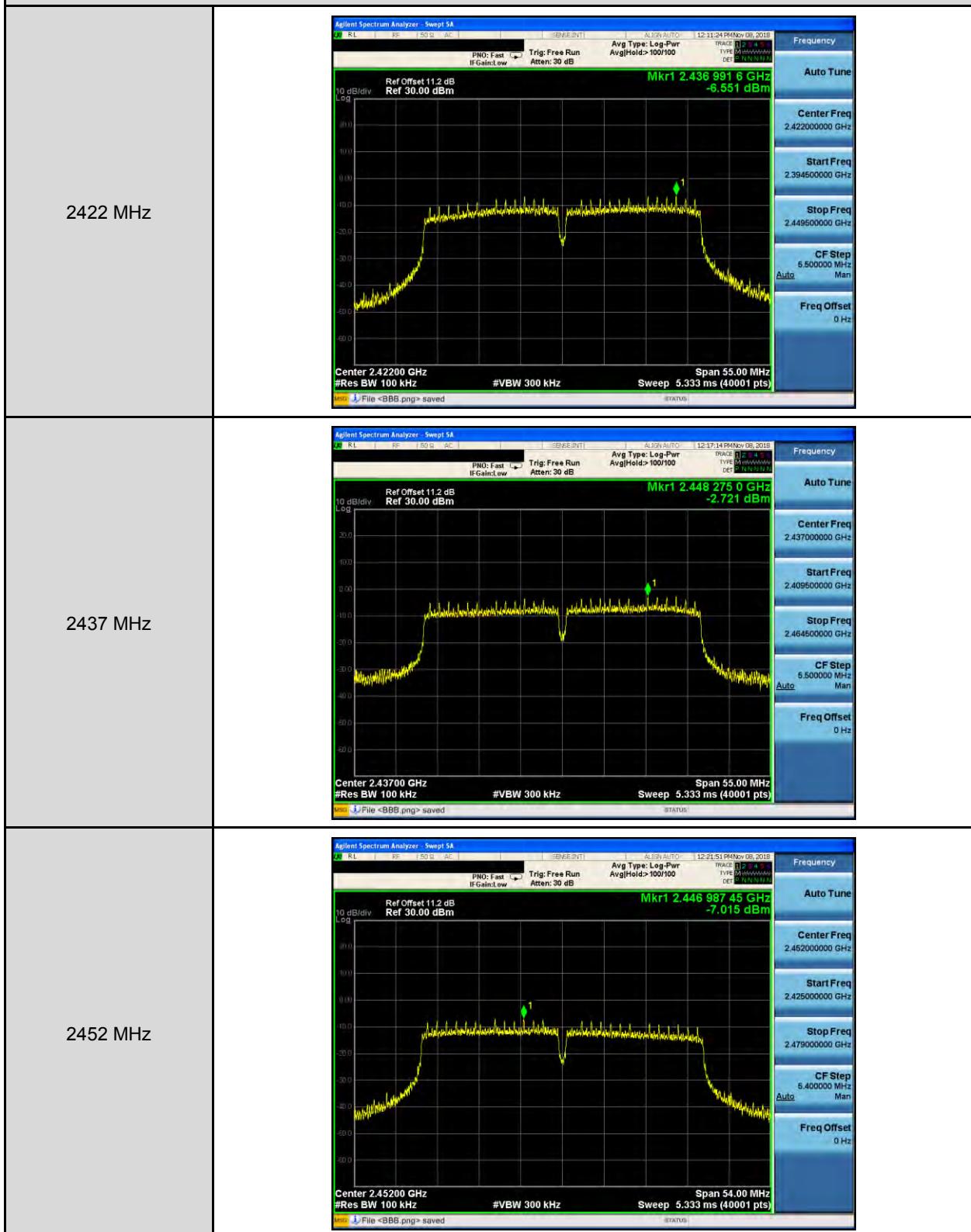
## Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode\_ANT-0

2422 MHz	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 11.2 dB Ref 30.00 dBm</p> <p>Center 2.42200 GHz #Res BW 100 kHz #VBW 300 kHz Span 54.00 MHz Sweep 5.333 ms (40001 pts)</p> <p>Mkr1 2.433 267 10 GHz -5.204 dBm</p> <p>Auto Tune Center Freq 2.42200000 GHz Start Freq 2.395000000 GHz Stop Freq 2.449000000 GHz CF Step 5.400000 MHz Auto Man Freq Offset 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 11.2 dB Ref 30.00 dBm</p> <p>Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Span 54.00 MHz Sweep 5.333 ms (40001 pts)</p> <p>Mkr1 2.428 246 60 GHz 0.131 dBm</p> <p>Auto Tune Center Freq 2.43700000 GHz Start Freq 2.410000000 GHz Stop Freq 2.464000000 GHz CF Step 5.400000 MHz Auto Man Freq Offset 0 Hz</p>
2452 MHz	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 11.2 dB Ref 30.00 dBm</p> <p>Center 2.45200 GHz #Res BW 100 kHz #VBW 300 kHz Span 55.00 MHz Sweep 5.333 ms (40001 pts)</p> <p>Mkr1 2.443 270 1 GHz -5.299 dBm</p> <p>Auto Tune Center Freq 2.46200000 GHz Start Freq 2.424500000 GHz Stop Freq 2.479500000 GHz CF Step 5.500000 MHz Auto Man Freq Offset 0 Hz</p>

## Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode\_ANT-1

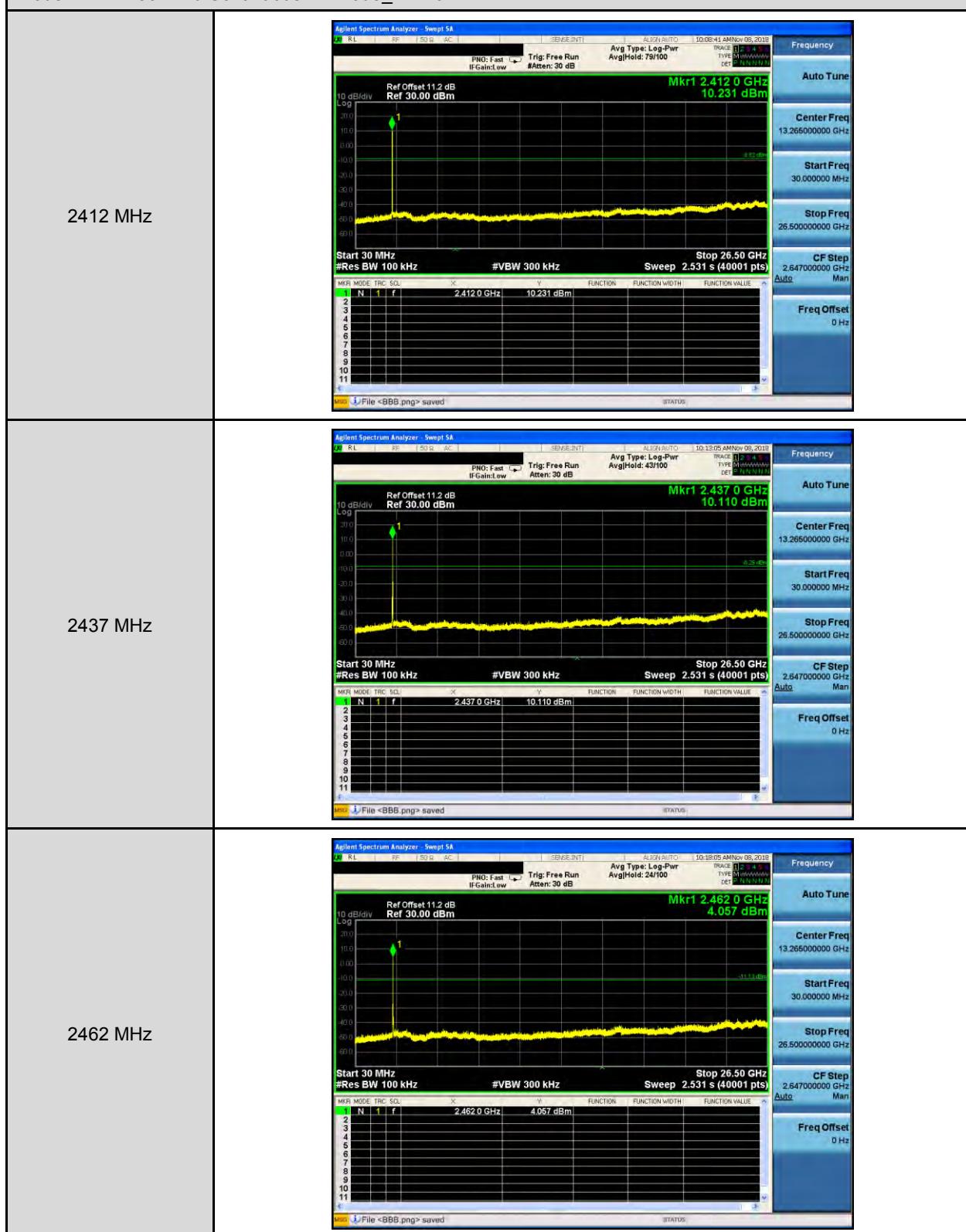
2412 MHz	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 11.2 dB Ref 30.00 dBm</p> <p>Mkr1 2.418 247 500 GHz -3.240 dBm</p> <p>Center 2.41200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Span 25.00 MHz</p> <p>Auto Tune Center Freq 2.41200000 GHz Start Freq 2.399500000 GHz Stop Freq 2.424500000 GHz CF Step 2.500000 MHz Auto Man Freq Offset 0 Hz</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 11.2 dB Ref 30.00 dBm</p> <p>Mkr1 2.441 989 600 GHz 5.450 dBm</p> <p>Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Span 27.00 MHz</p> <p>Auto Tune Center Freq 2.43700000 GHz Start Freq 2.423500000 GHz Stop Freq 2.450500000 GHz CF Step 2.700000 MHz Auto Man Freq Offset 0 Hz</p>
2462 MHz	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset 11.2 dB Ref 30.00 dBm</p> <p>Mkr1 2.454 508 850 GHz -1.141 dBm</p> <p>Center 2.46200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Span 27.00 MHz</p> <p>Auto Tune Center Freq 2.46200000 GHz Start Freq 2.448500000 GHz Stop Freq 2.476500000 GHz CF Step 2.700000 MHz Auto Man Freq Offset 0 Hz</p>

## Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode\_ANT-1

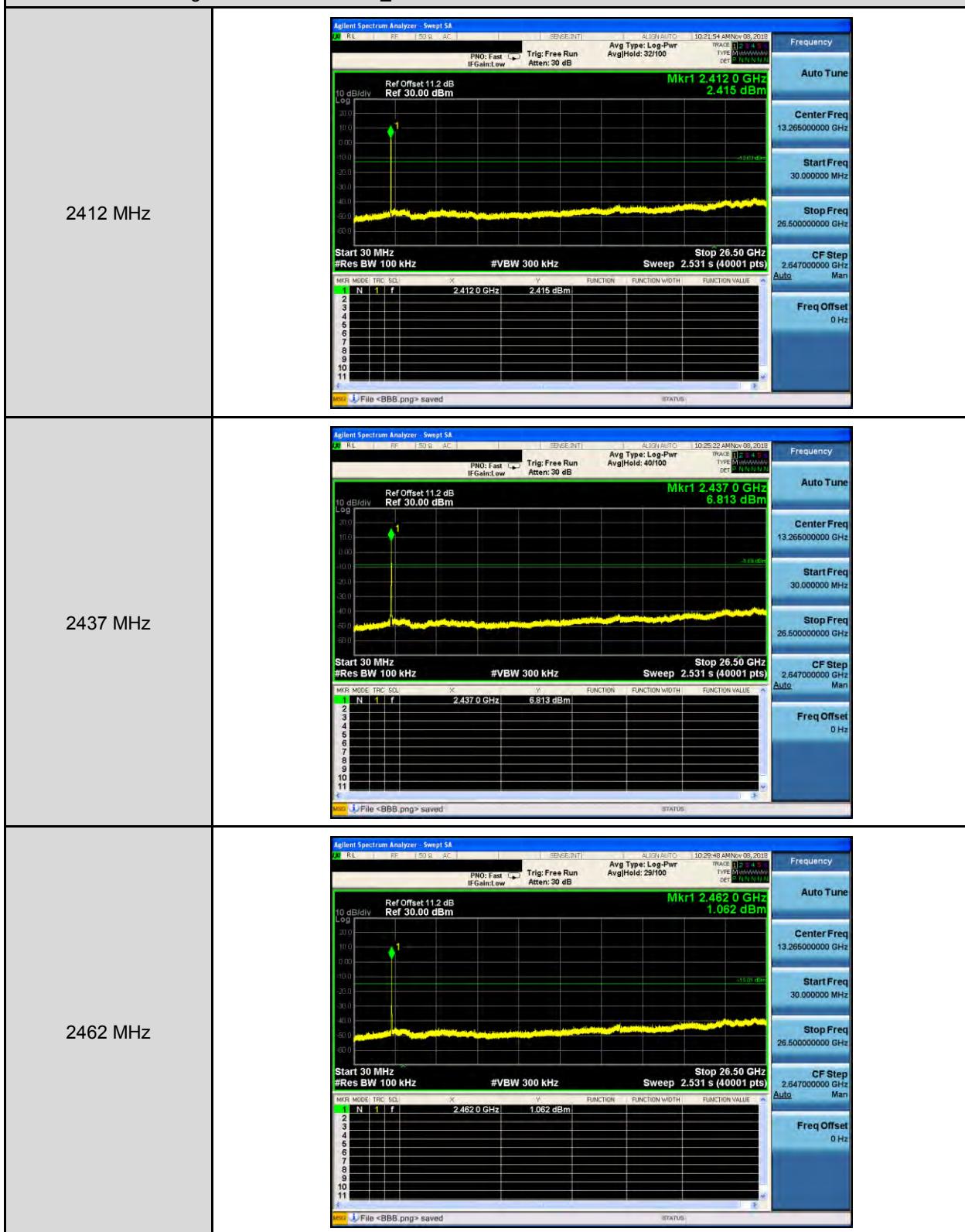


### Out of Band Conducted Emissions

Mode 2: IEEE 802.11b Continuous TX mode\_ANT-0



Mode 3: IEEE 802.11g Continuous TX mode\_ANT-0



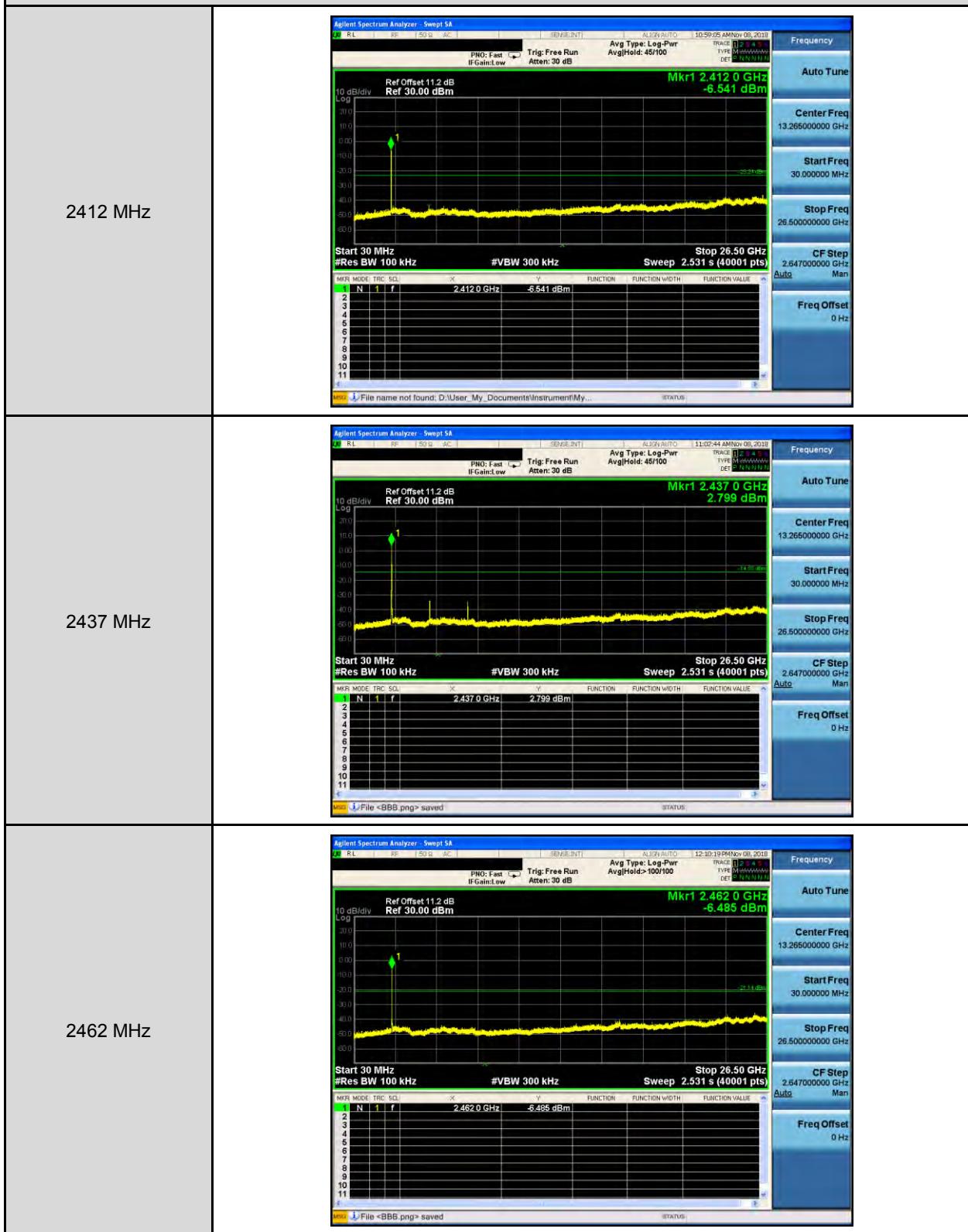
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode\_ANT-0



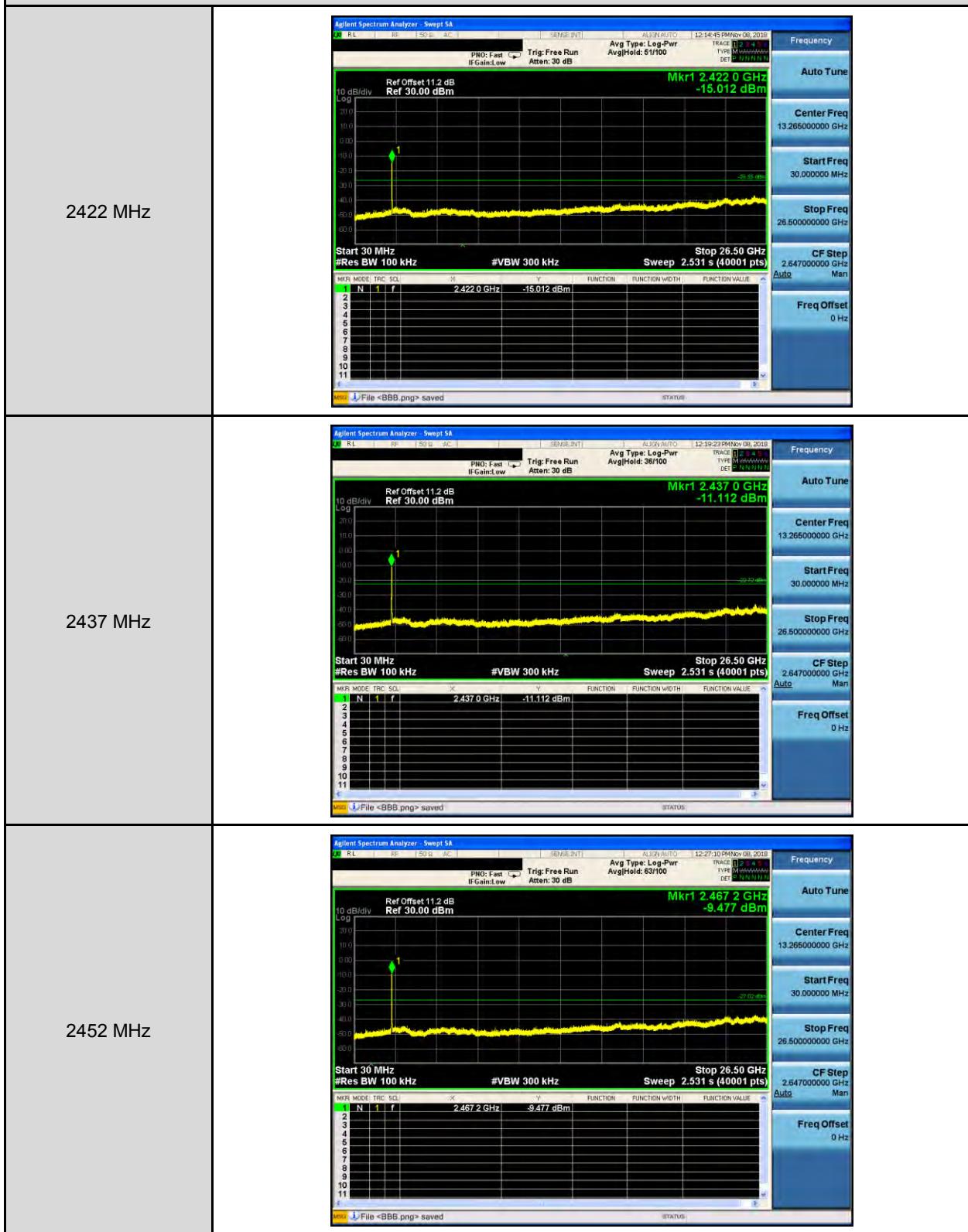
Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode\_ANT-0



Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode\_ANT-1

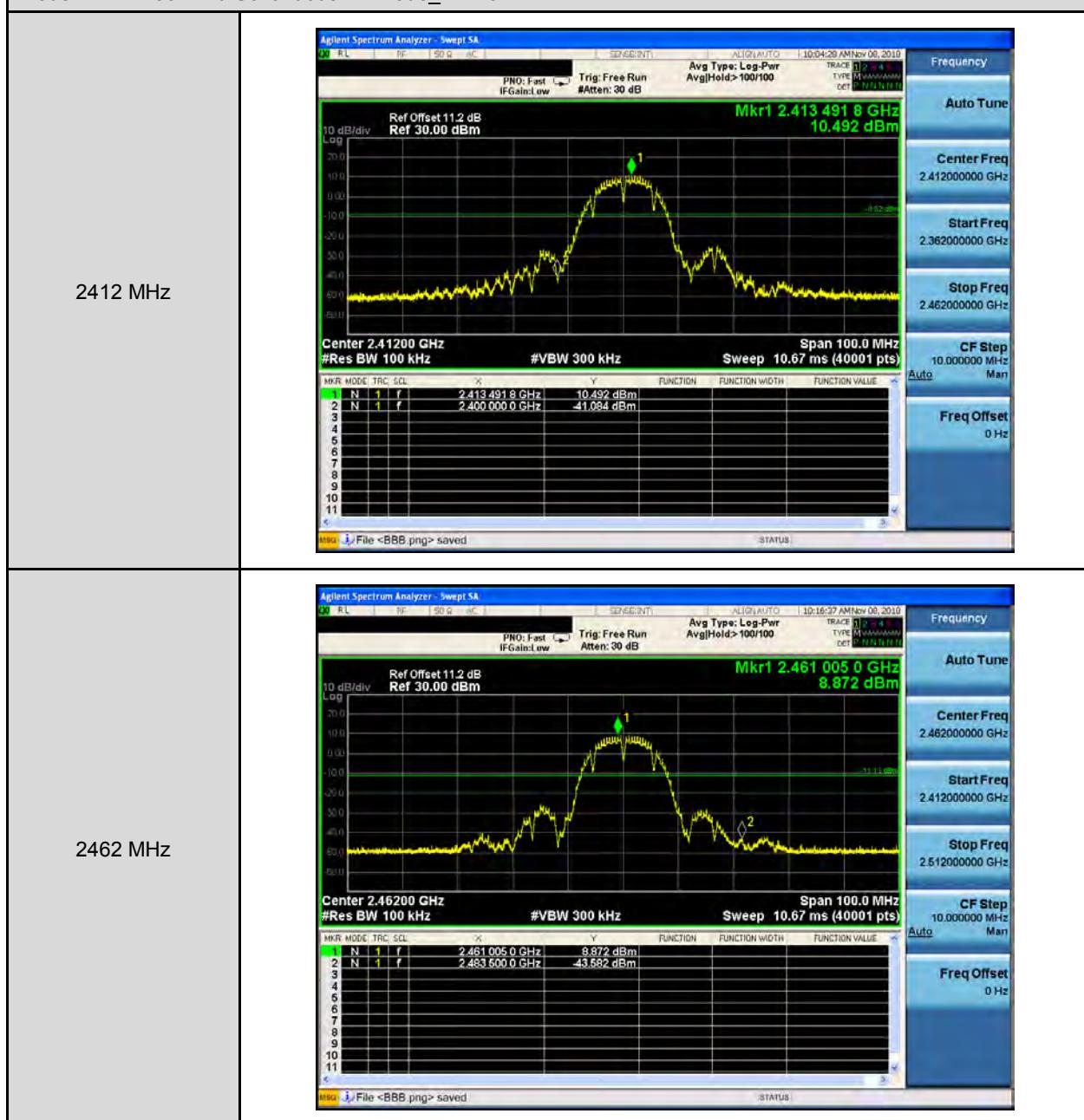


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode\_ANT-1



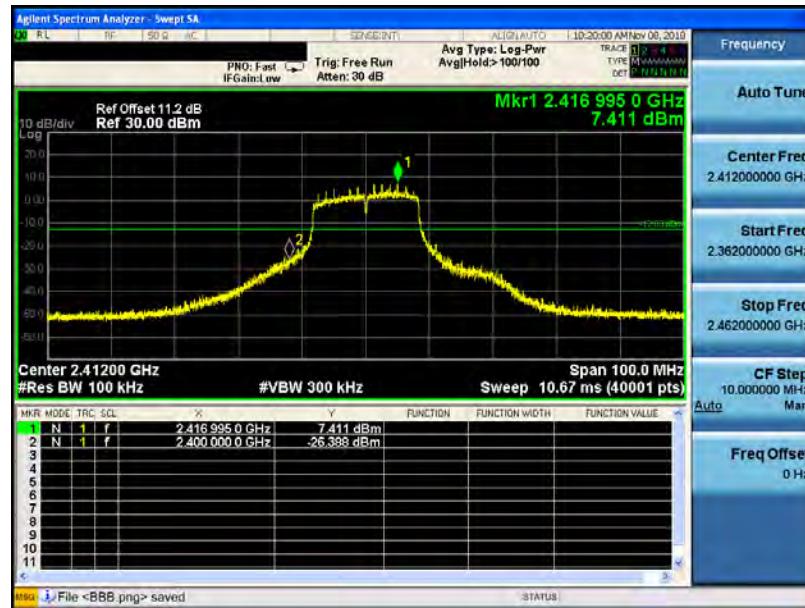
### Conducted Band Edge

Mode 2: IEEE 802.11b Continuous TX mode\_ANT-0

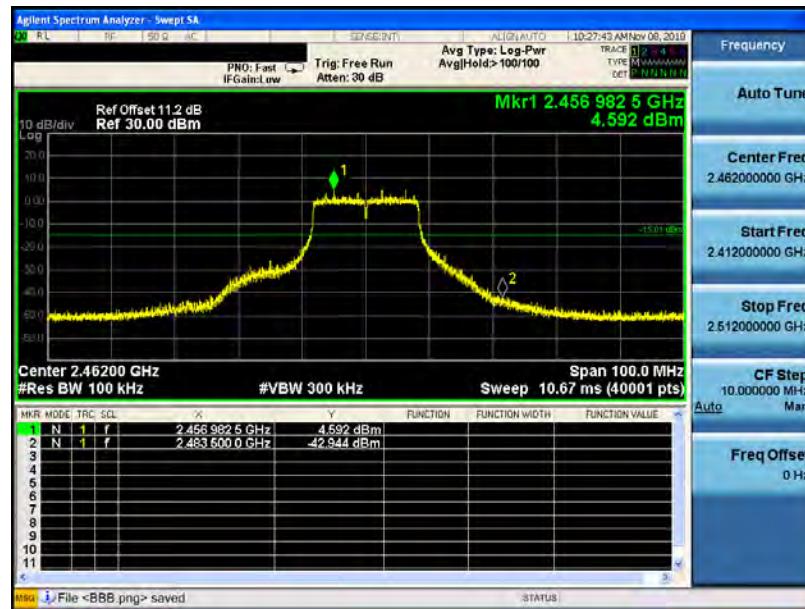


## Mode 3: IEEE 802.11g Continuous TX mode\_ANT-0

2412 MHz

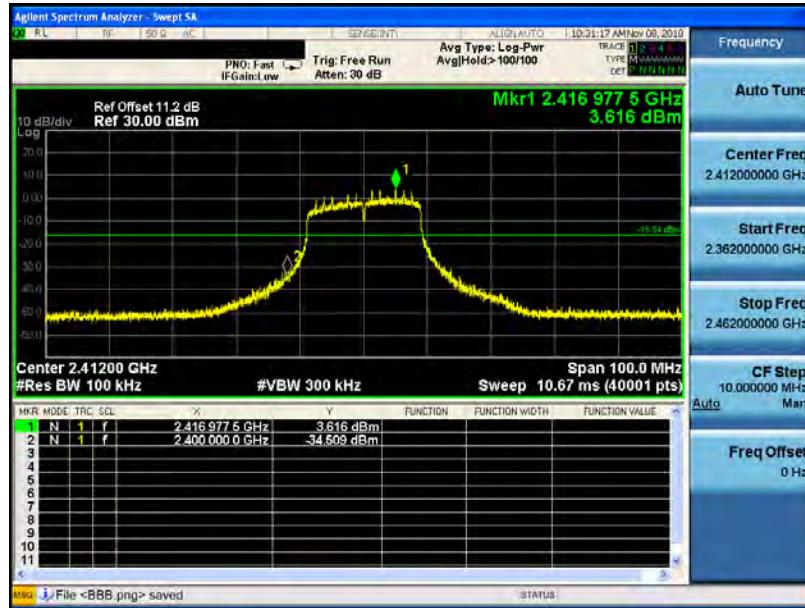


2462 MHz

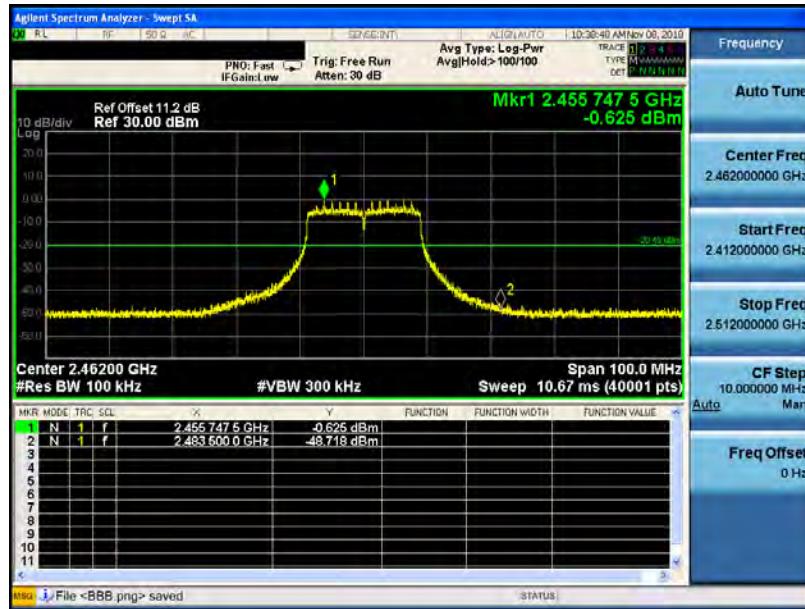


## Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode\_ANT-0

2412 MHz

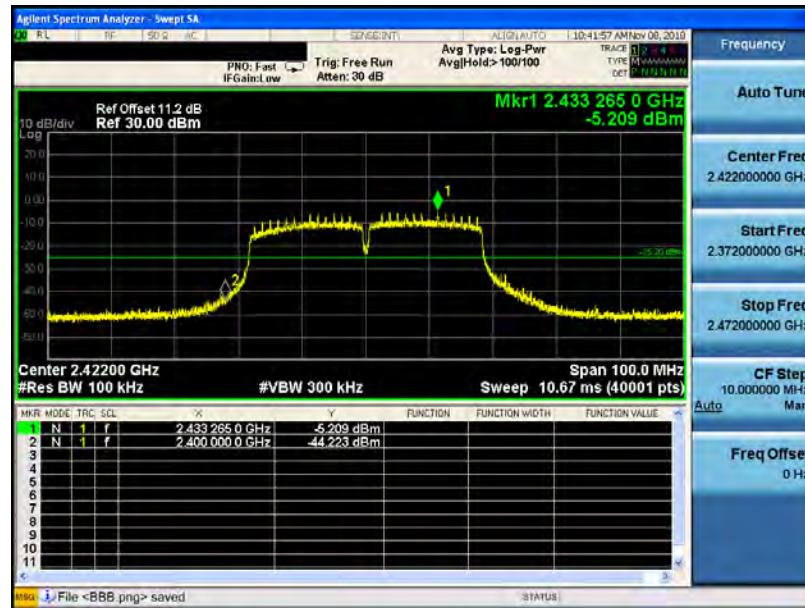


2462 MHz

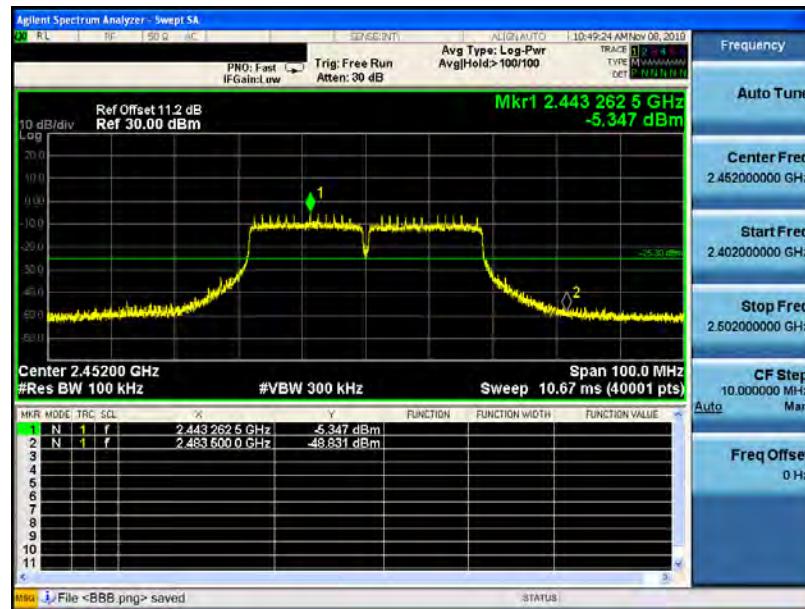


## Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode\_ANT-0

2422 MHz

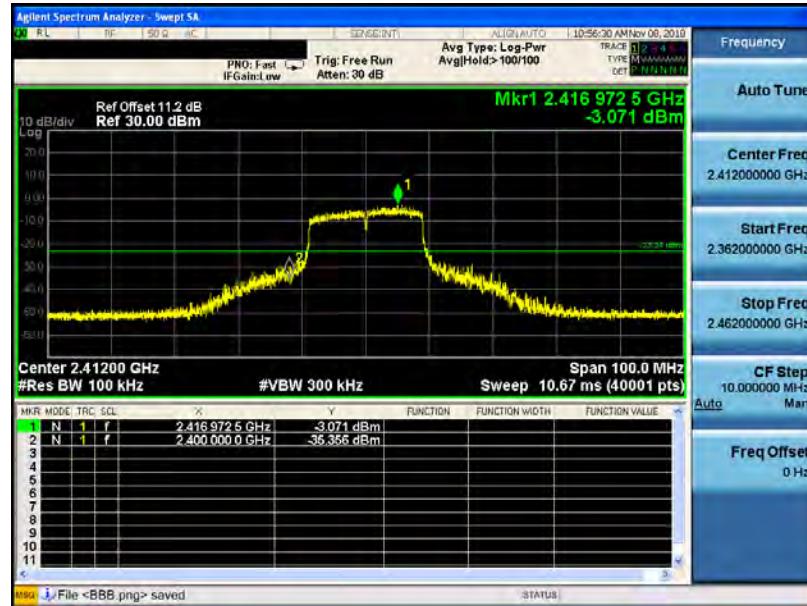


2452 MHz

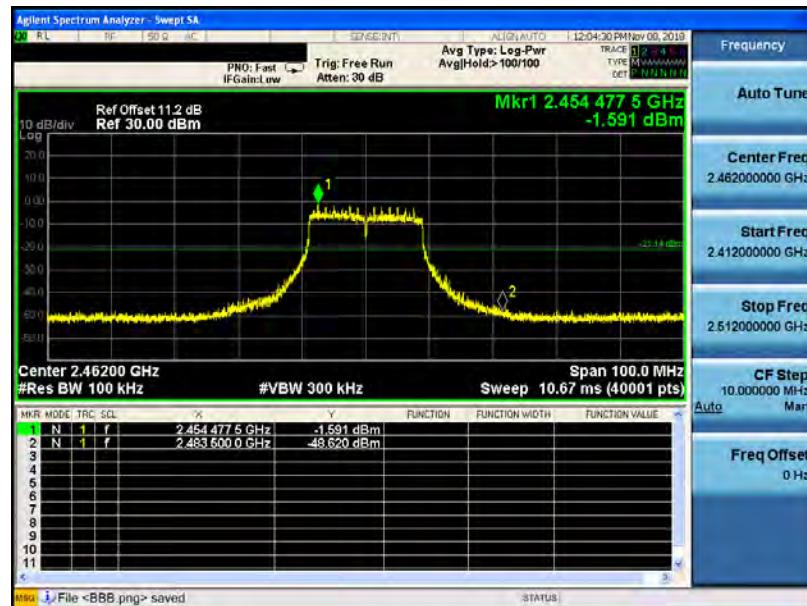


## Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode\_ANT-1

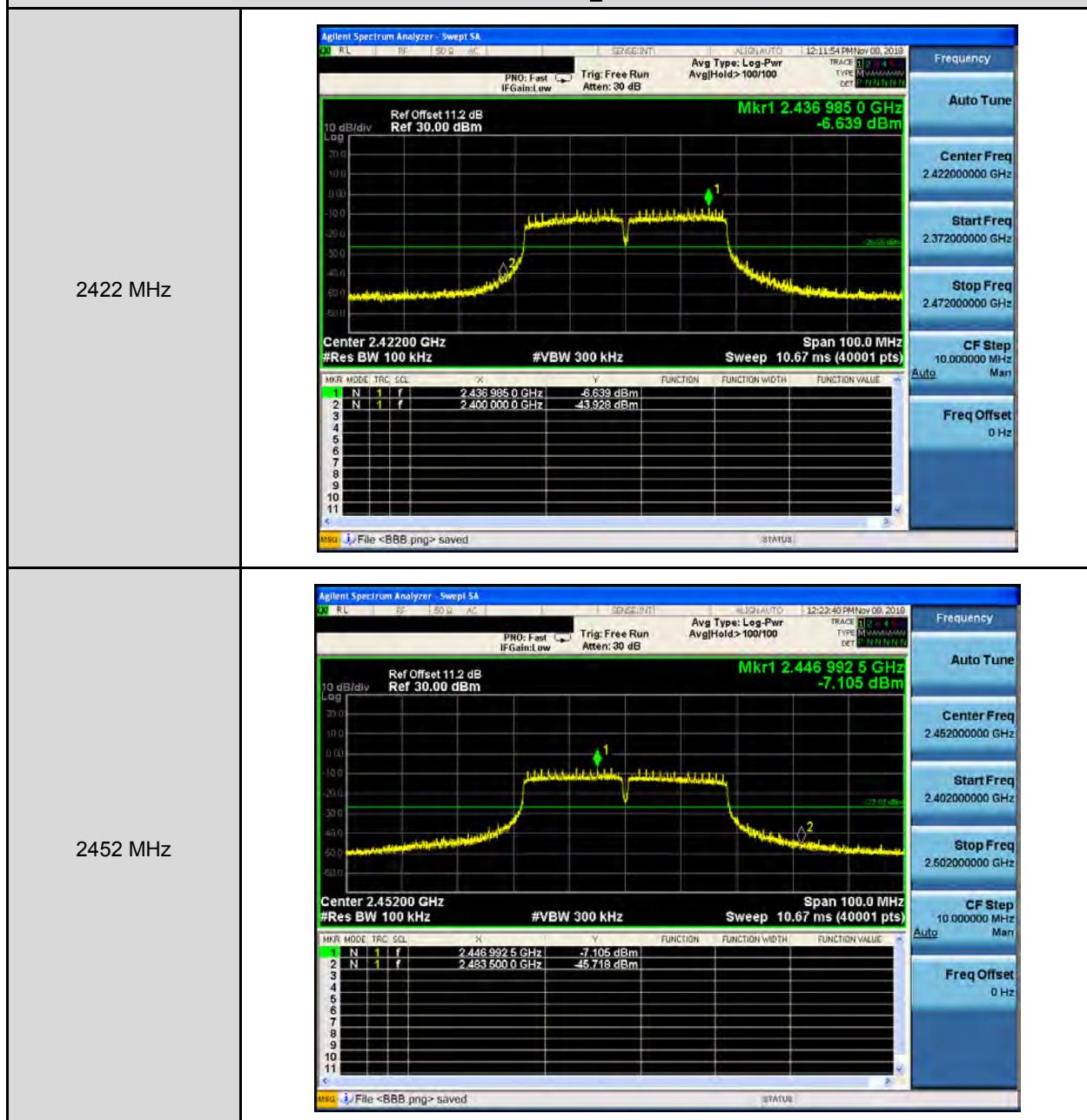
2412 MHz



2462 MHz



## Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode\_ANT-1



## Annex C. Radiated Emission Measurement

### Harmonic

Below 1 GHz

Standard:	FCC Part 15.247			Test Distance:	3 m		
Test item:	Harmonic			Power:	AC 120 V/60 Hz		
Mode:	Mode 1			Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
280.2600	43.93	-4.27	39.66	46.00	-6.34	QP	H
360.7700	36.32	-2.76	33.56	46.00	-12.44	QP	H
734.2200	36.82	5.14	41.96	46.00	-4.04	QP	H
760.4100	37.96	5.71	43.67	46.00	-2.33	QP	H
839.9500	37.30	6.87	44.17	46.00	-1.83	QP	H
920.4600	35.53	8.21	43.74	46.00	-2.26	QP	H
500.4500	40.61	0.16	40.77	46.00	-5.23	QP	V
520.8200	42.56	0.52	43.08	46.00	-2.92	QP	V
600.3600	39.74	2.48	42.22	46.00	-3.78	QP	V
760.4100	37.52	5.71	43.23	46.00	-2.77	QP	V
840.9200	36.83	6.89	43.72	46.00	-2.28	QP	V
920.4600	36.04	8.21	44.25	46.00	-1.75	QP	V

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

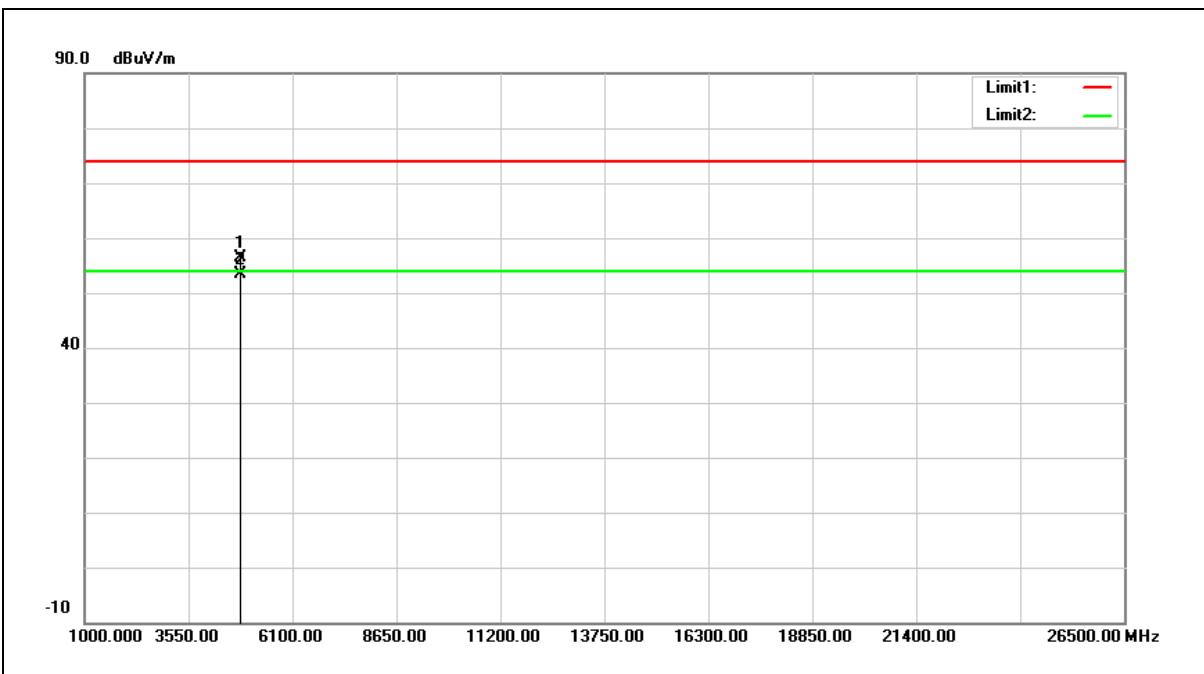
Example:  $39.66 = -4.27 + 43.93$

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

### Above 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	51.14	5.21	56.35	74.00	-17.65	peak
2	4824.000	48.21	5.21	53.42	54.00	-0.58	AVG

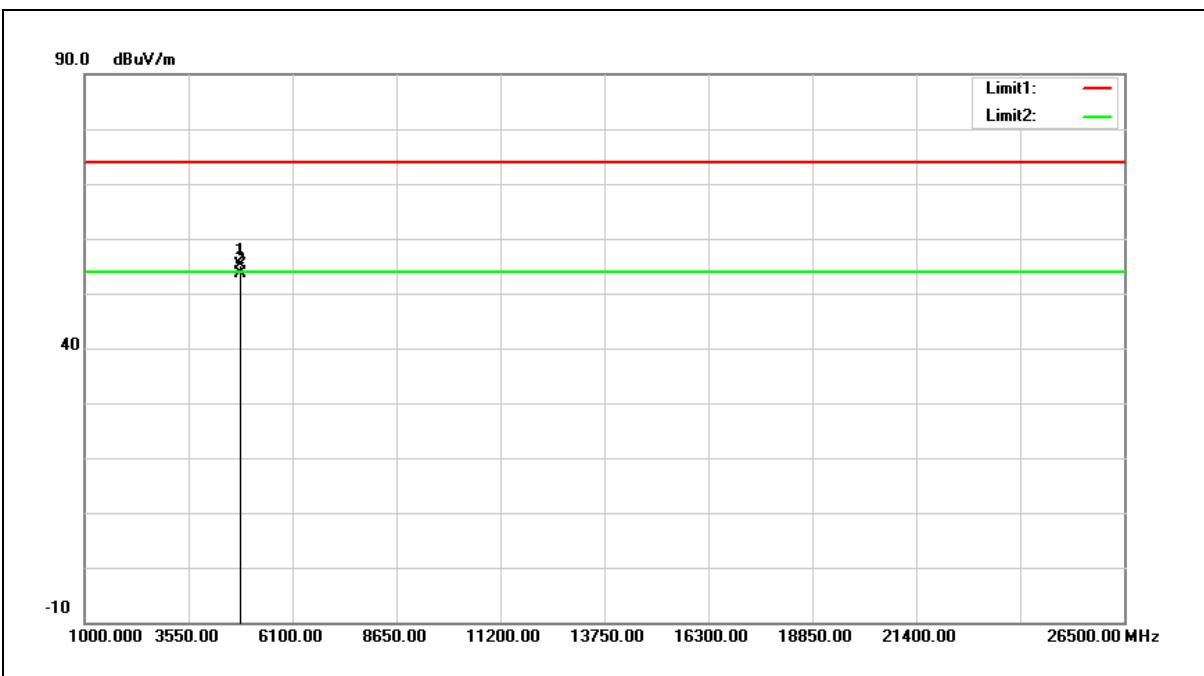
Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example:  $56.35 = 5.21 + 51.14$

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	49.81	5.21	55.02	74.00	-18.98	peak
2	4824.000	48.53	5.21	53.74	54.00	-0.26	Avg

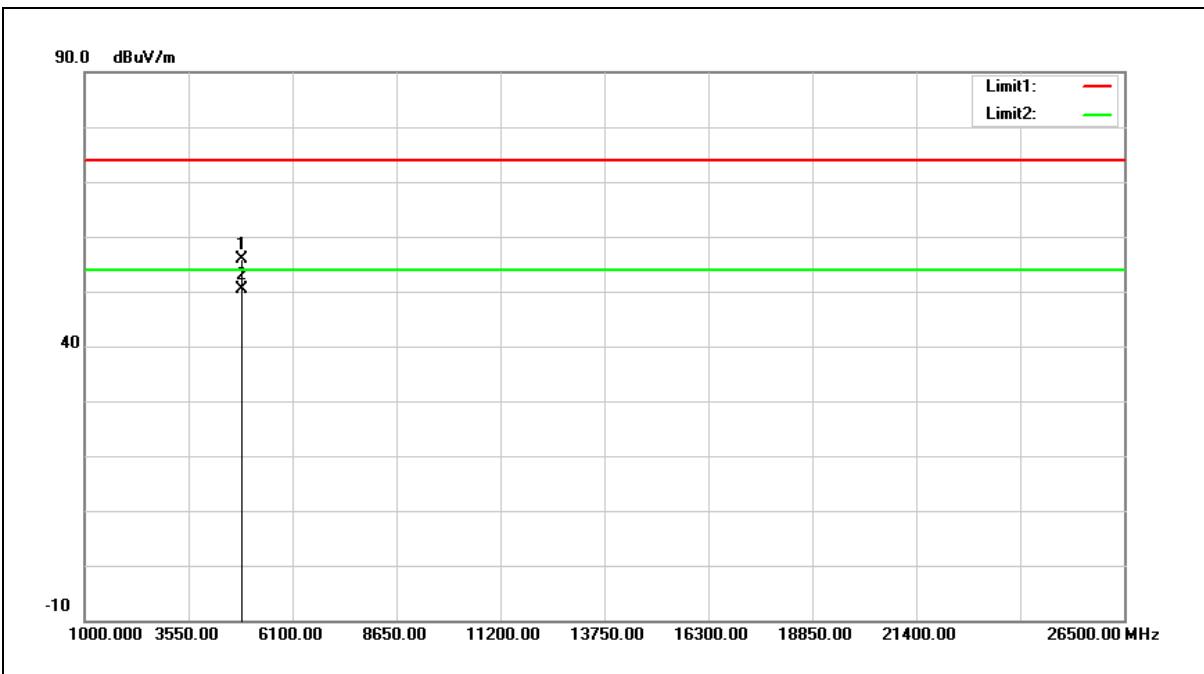
Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example:  $55.02 = 5.21 + 49.81$

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



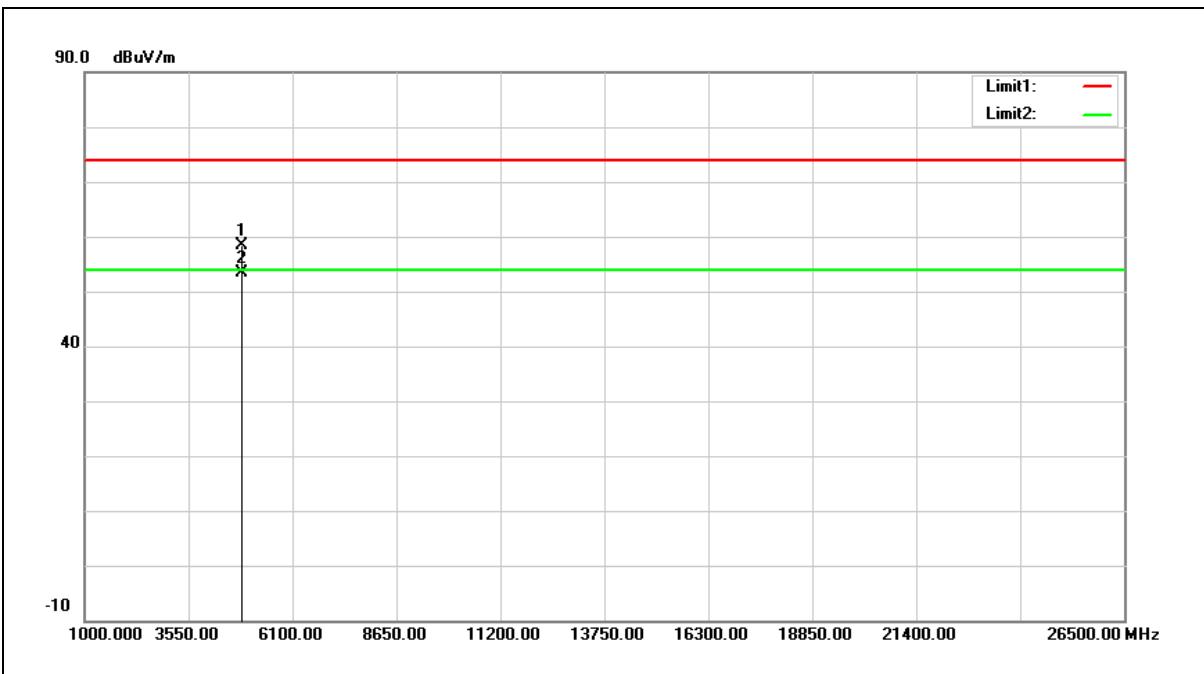
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	50.63	5.36	55.99	74.00	-18.01	peak
2	4874.000	45.03	5.36	50.39	54.00	-3.61	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



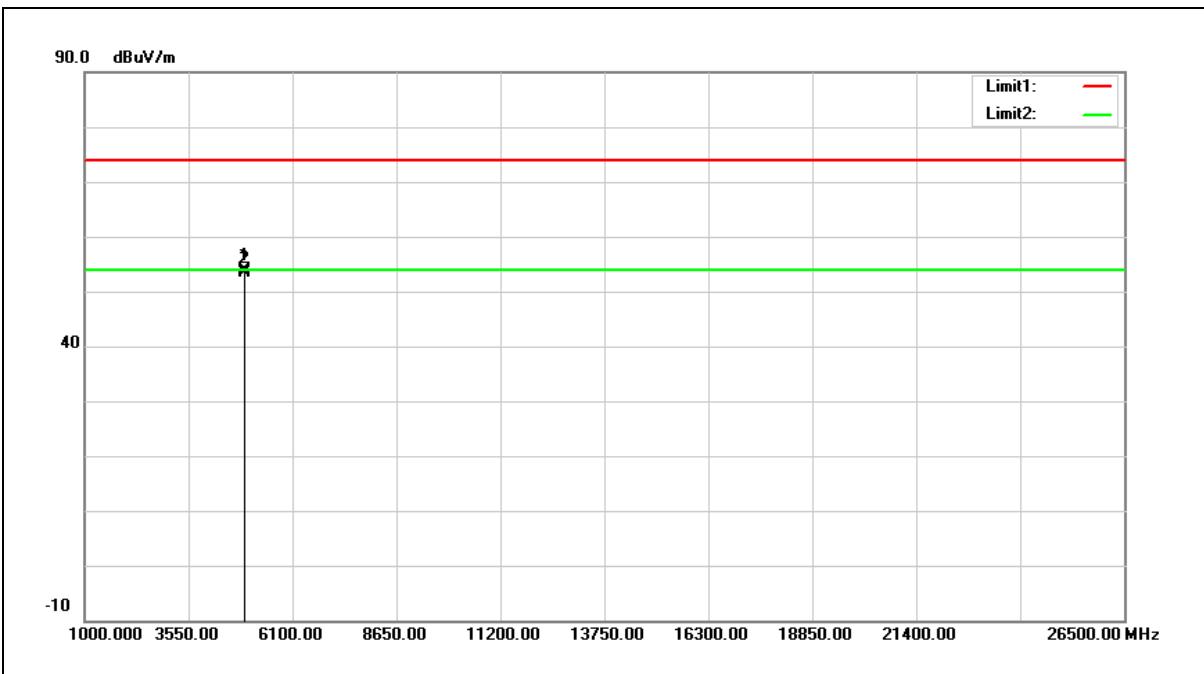
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	52.91	5.36	58.27	74.00	-15.73	peak
2	4874.000	47.94	5.36	53.30	54.00	-0.70	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



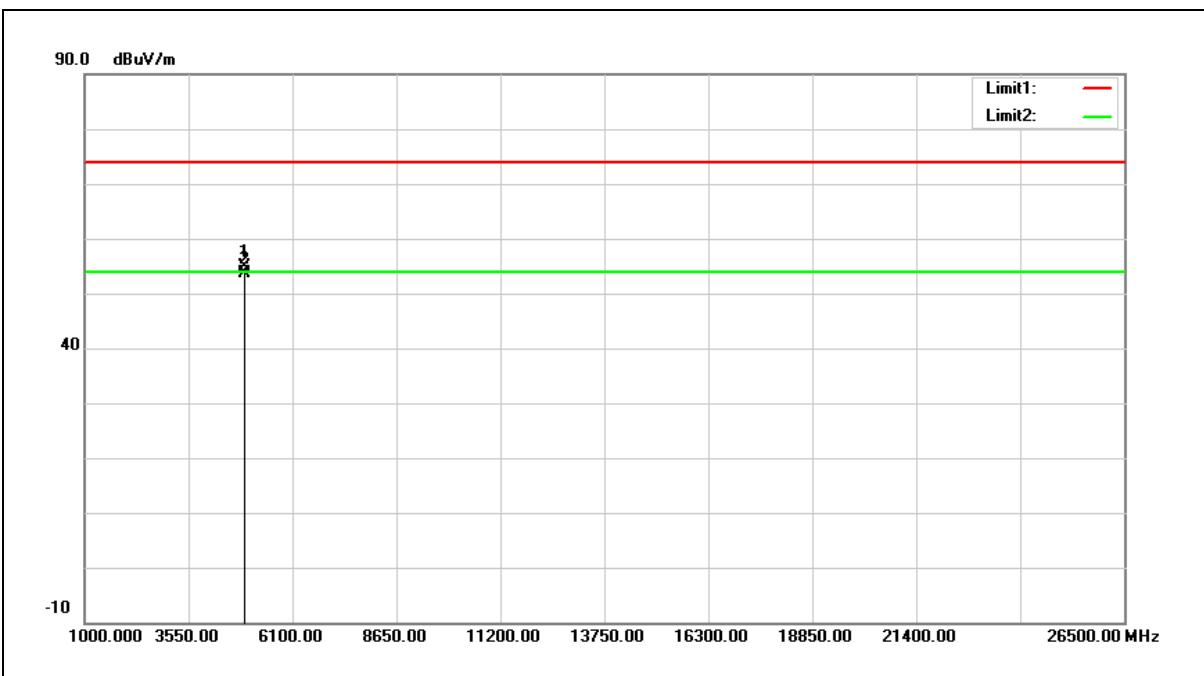
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	48.26	5.52	53.78	74.00	-20.22	peak
2	4924.000	47.86	5.52	53.38	54.00	-0.62	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



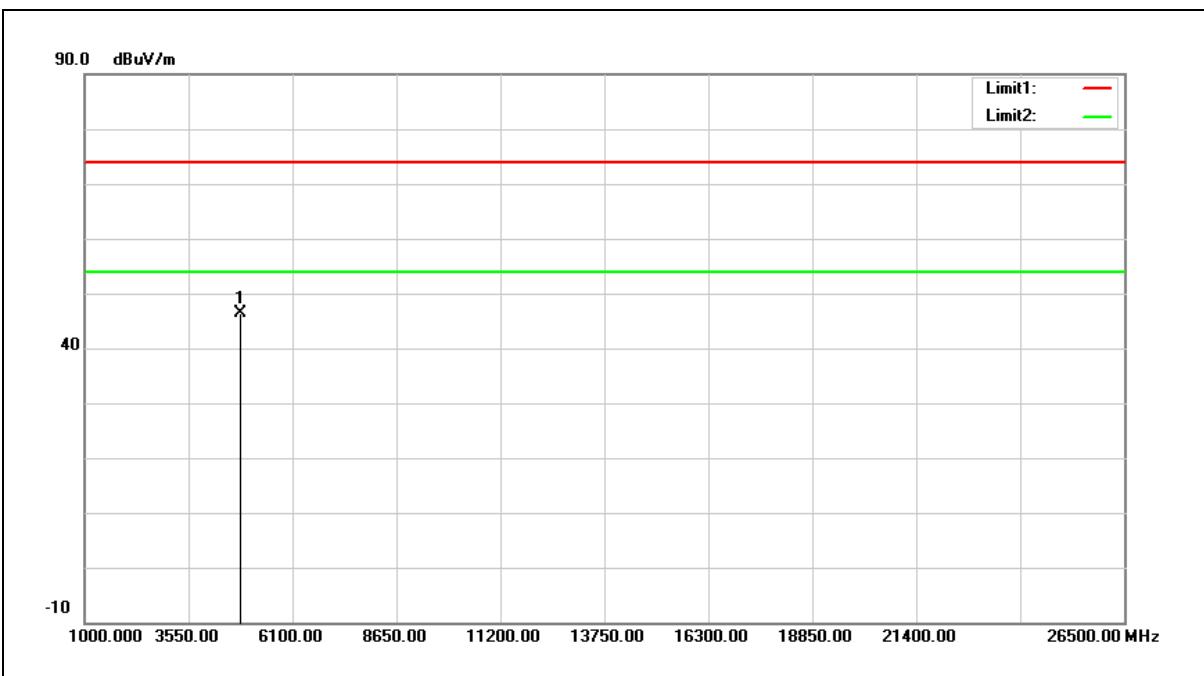
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	49.38	5.52	54.90	74.00	-19.10	peak
2	4924.000	48.22	5.52	53.74	54.00	-0.26	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



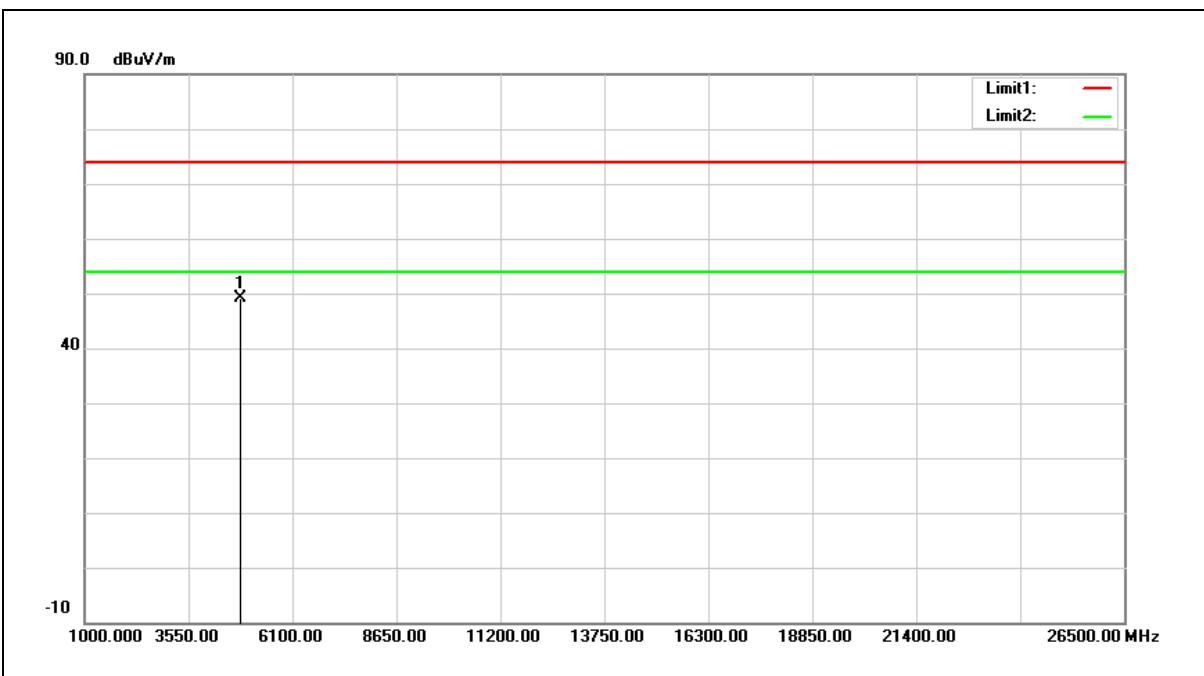
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	41.08	5.21	46.29	74.00	-27.71	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



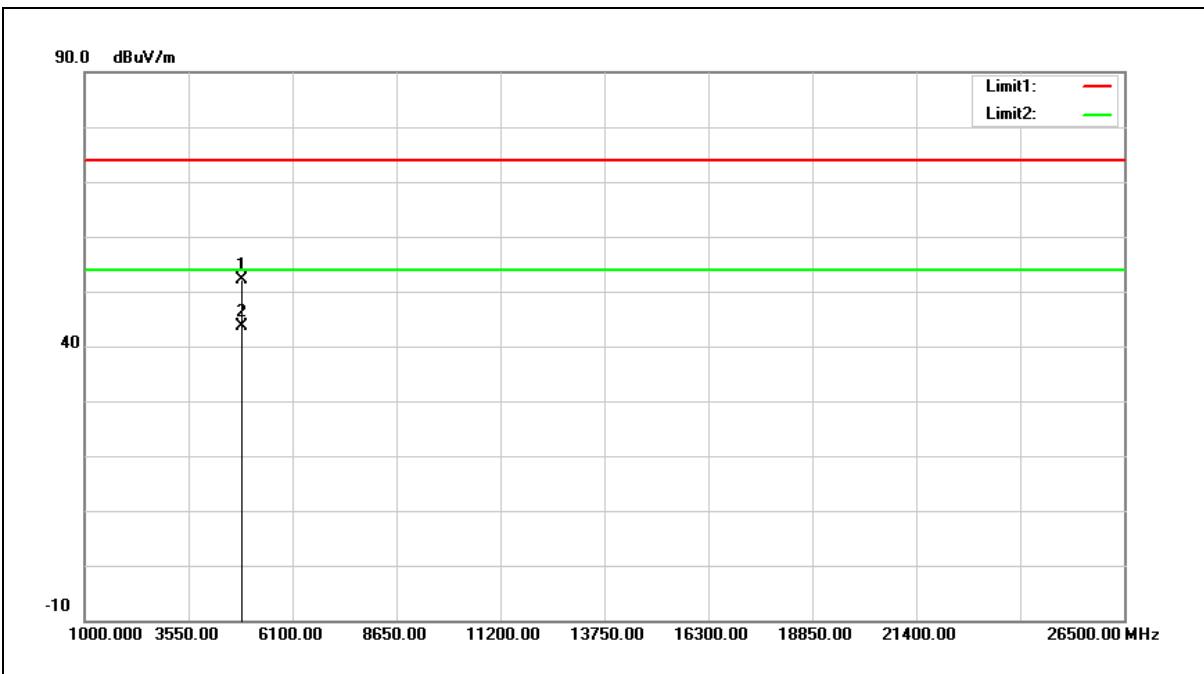
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	43.82	5.21	49.03	74.00	-24.97	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



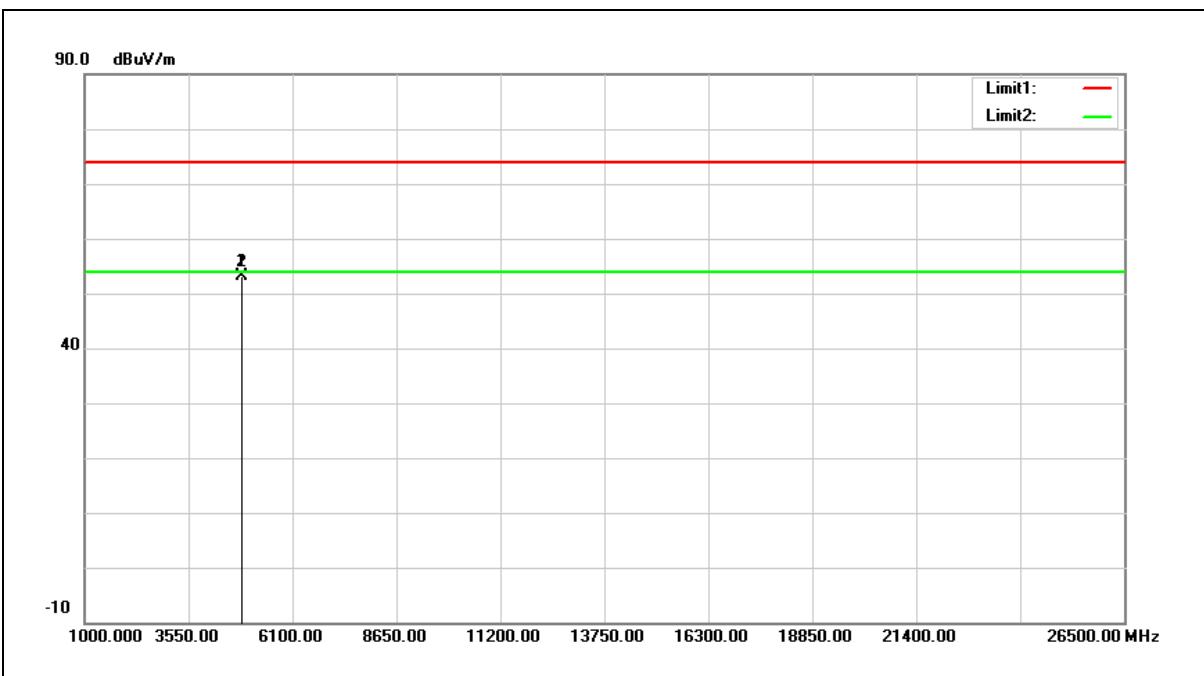
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	46.80	5.36	52.16	74.00	-21.84	peak
2	4874.000	38.16	5.36	43.52	54.00	-10.48	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



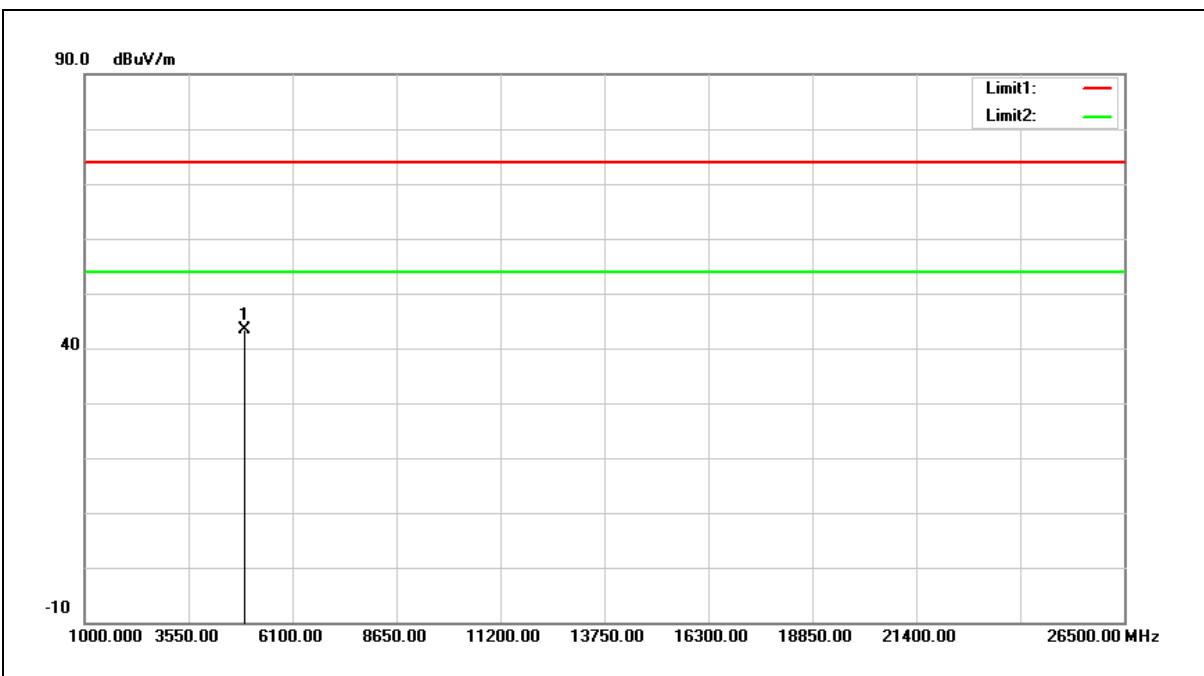
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	47.84	5.36	53.20	74.00	-20.80	peak
2	4874.000	47.84	5.36	53.20	54.00	-0.80	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



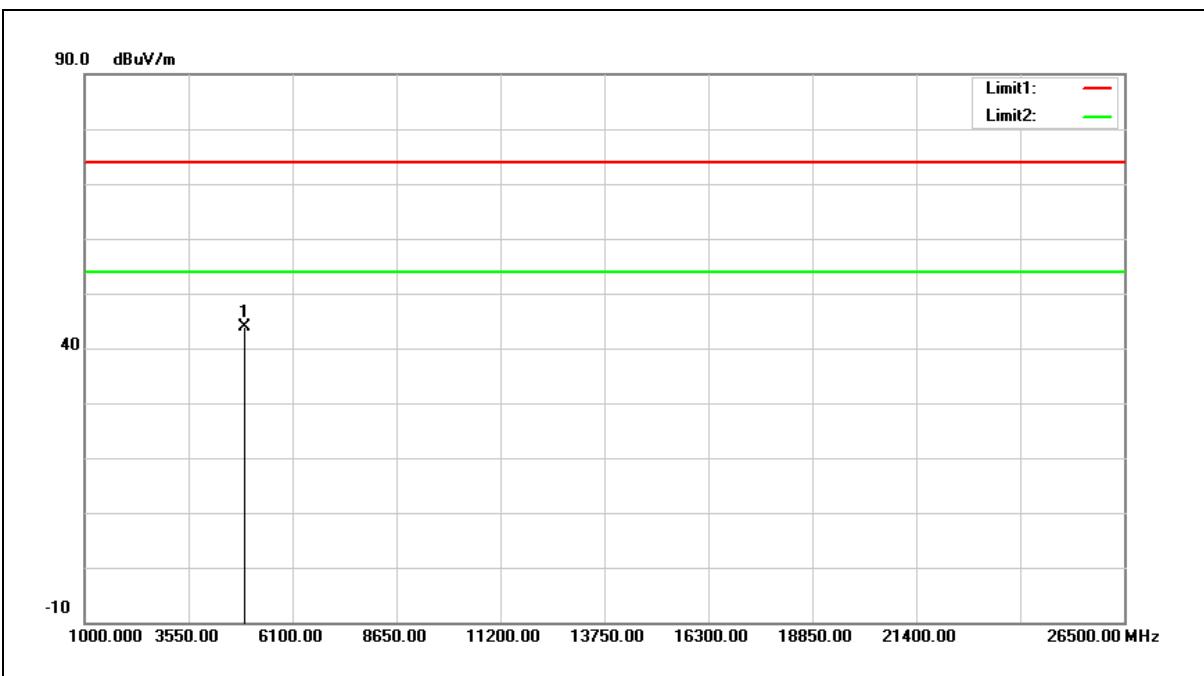
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	37.76	5.52	43.28	74.00	-30.72	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



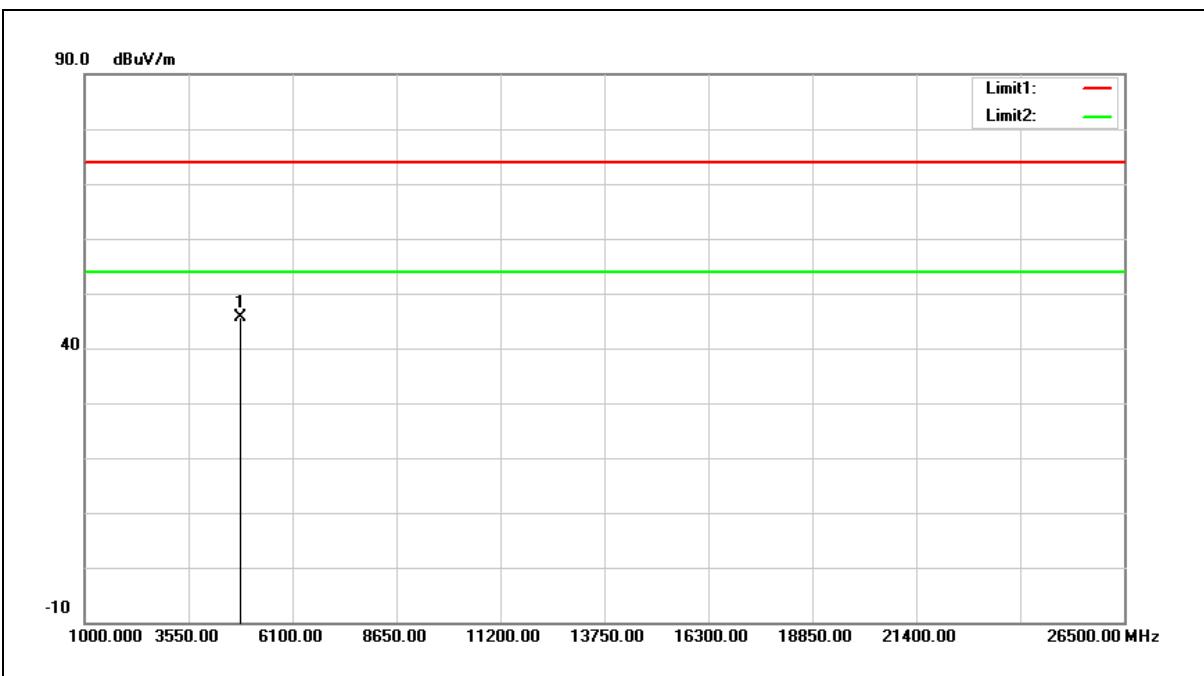
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	38.37	5.52	43.89	74.00	-30.11	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



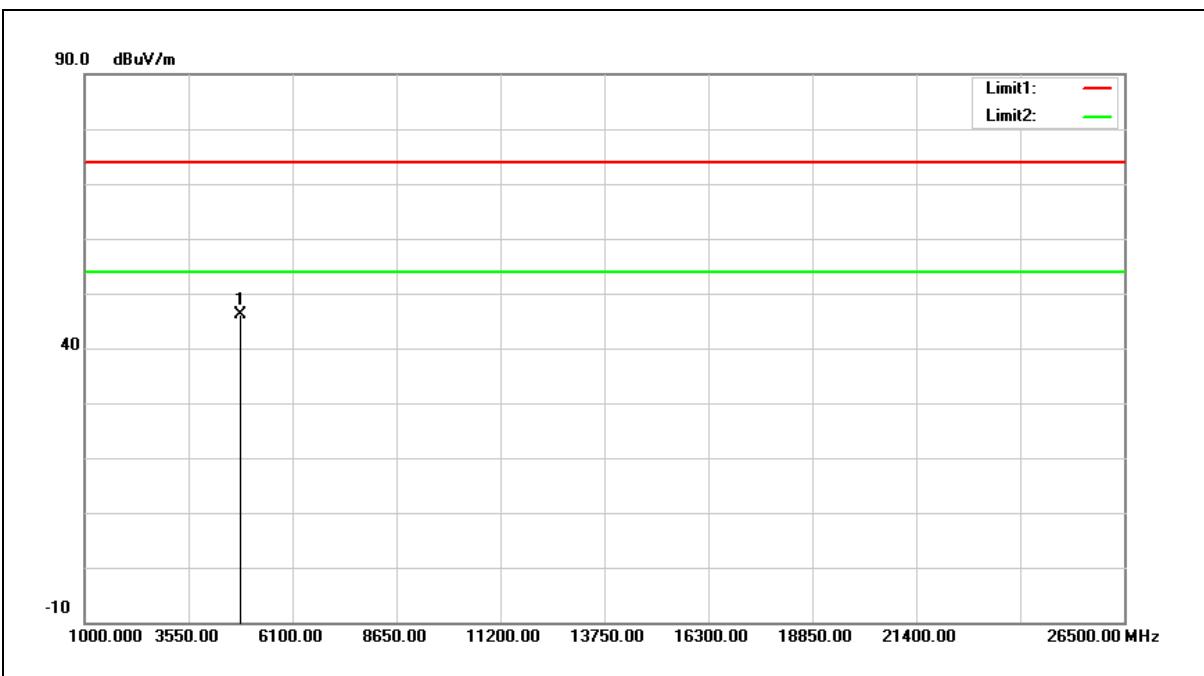
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	40.38	5.21	45.59	74.00	-28.41	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



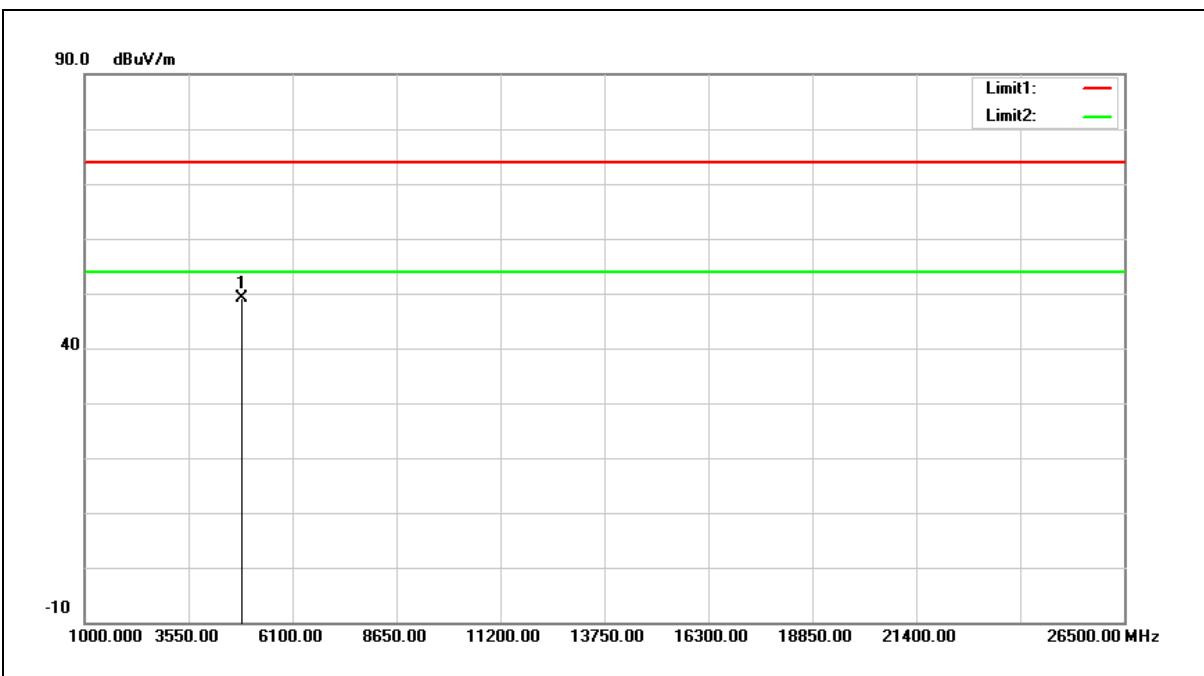
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	40.87	5.21	46.08	74.00	-27.92	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



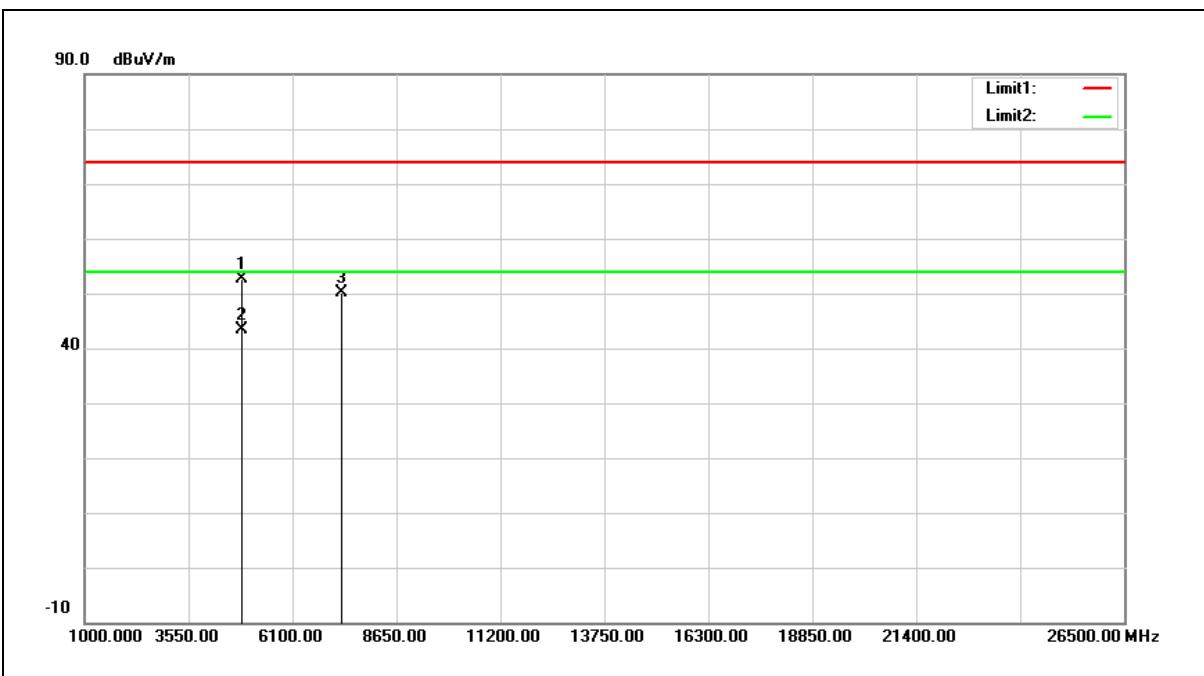
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	43.78	5.36	49.14	74.00	-24.86	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



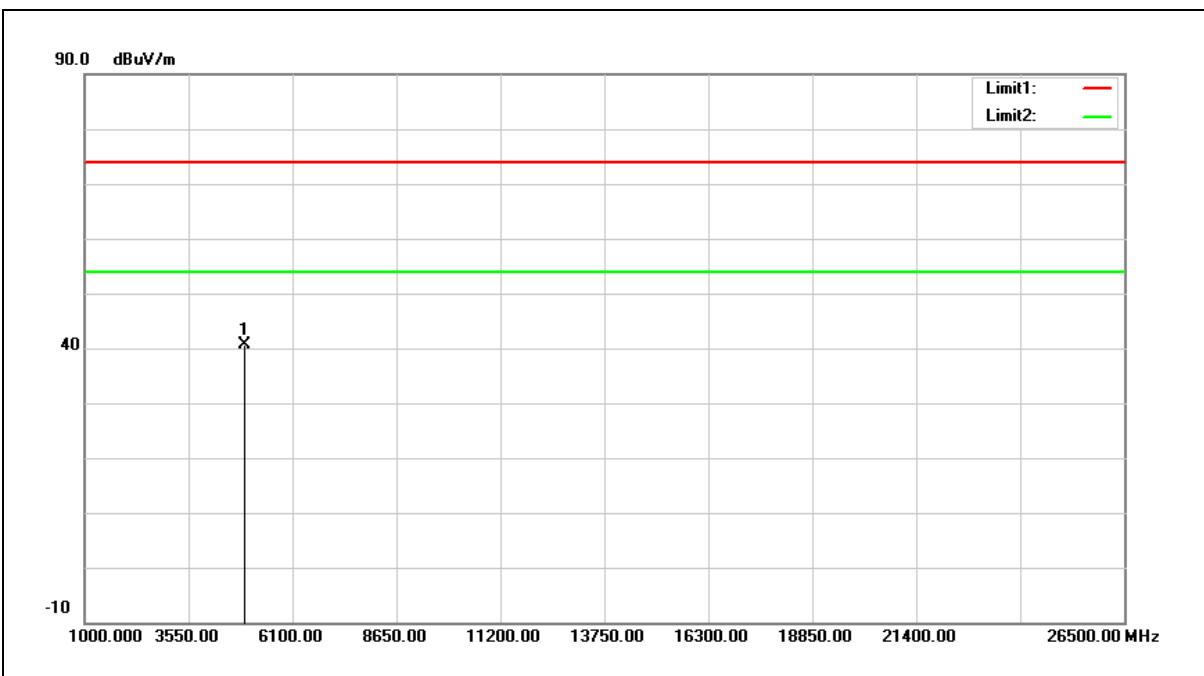
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	47.27	5.36	52.63	74.00	-21.37	peak
2	4874.000	38.02	5.36	43.38	54.00	-10.62	Avg
3	7311.000	38.14	12.02	50.16	74.00	-23.84	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



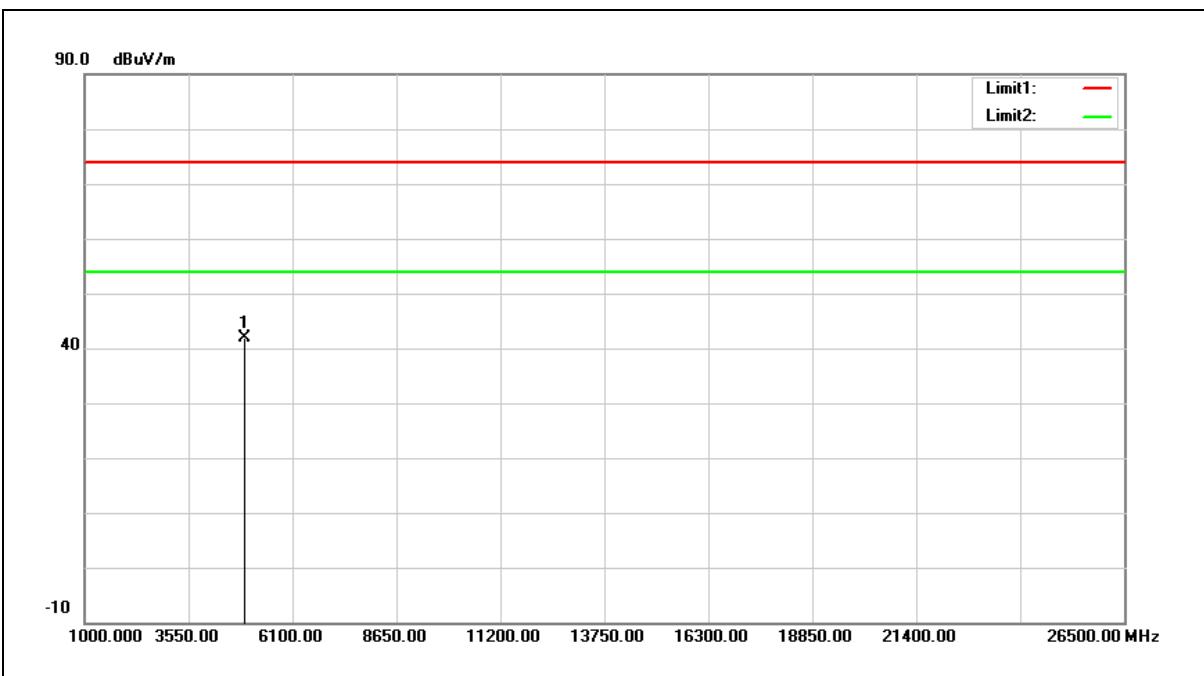
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.15	5.52	40.67	74.00	-33.33	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



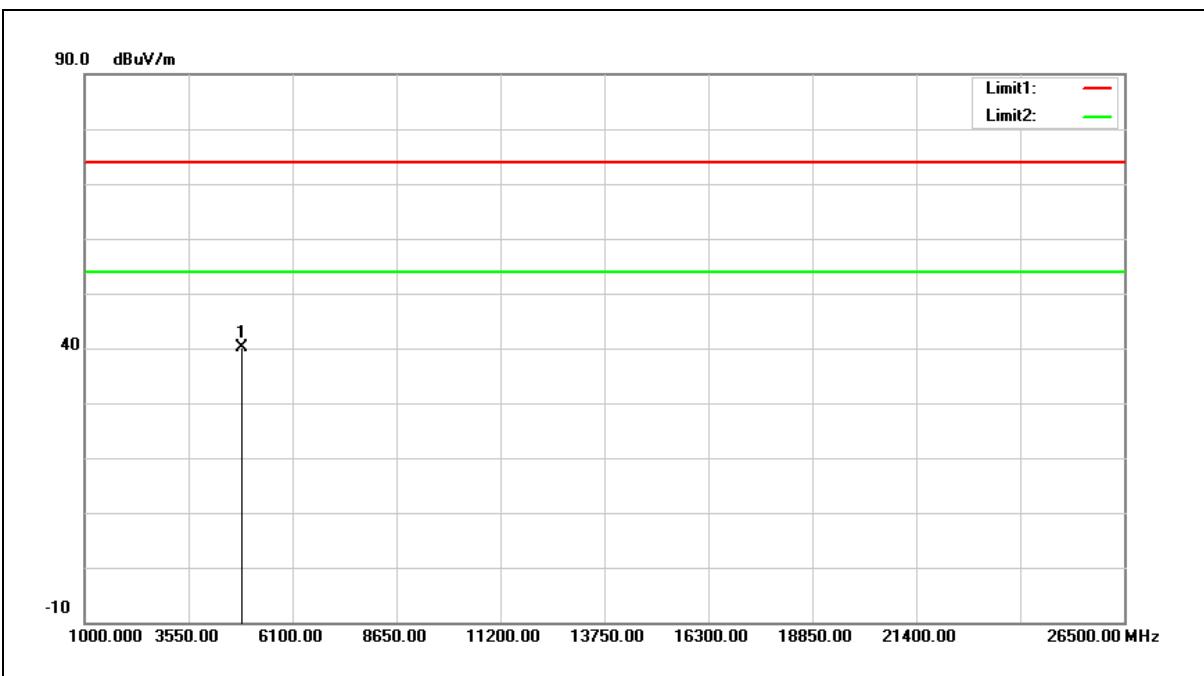
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	36.32	5.52	41.84	74.00	-32.16	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



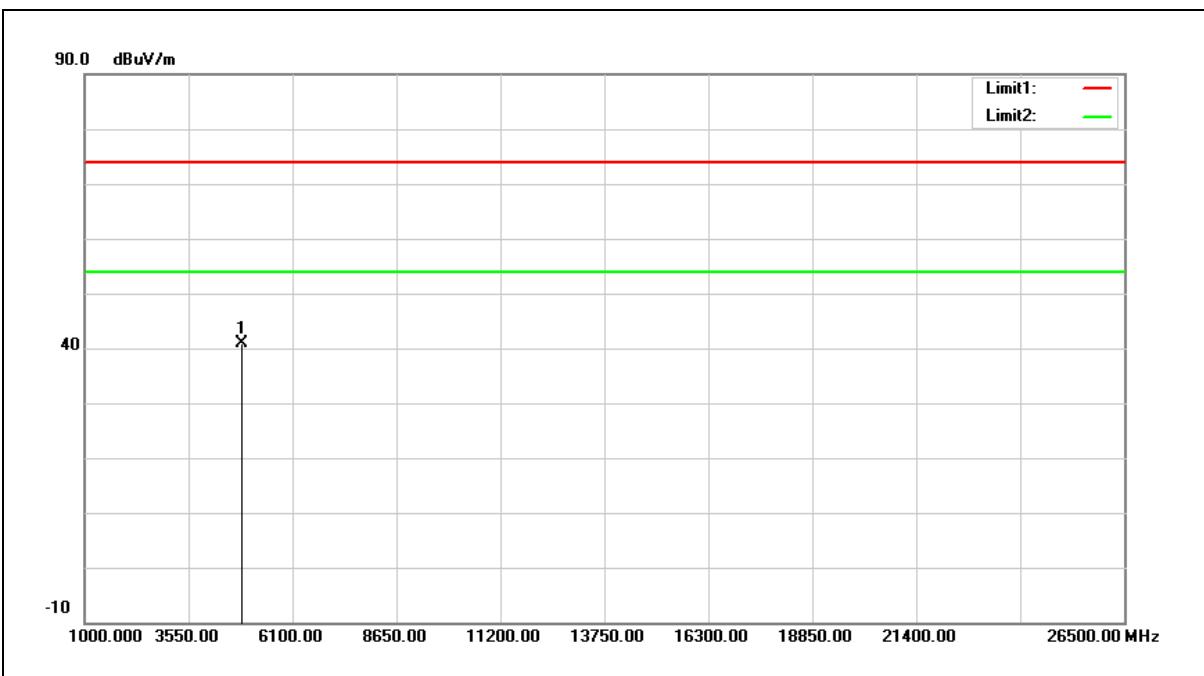
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	34.83	5.28	40.11	74.00	-33.89	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



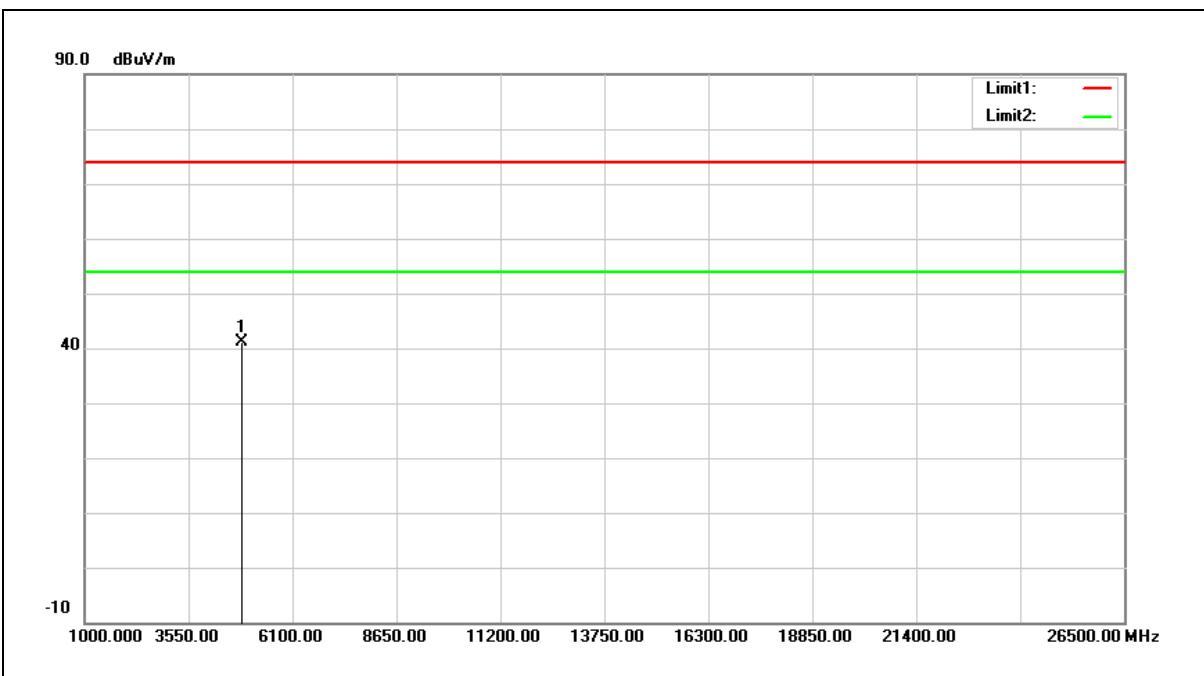
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	35.56	5.28	40.84	74.00	-33.16	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



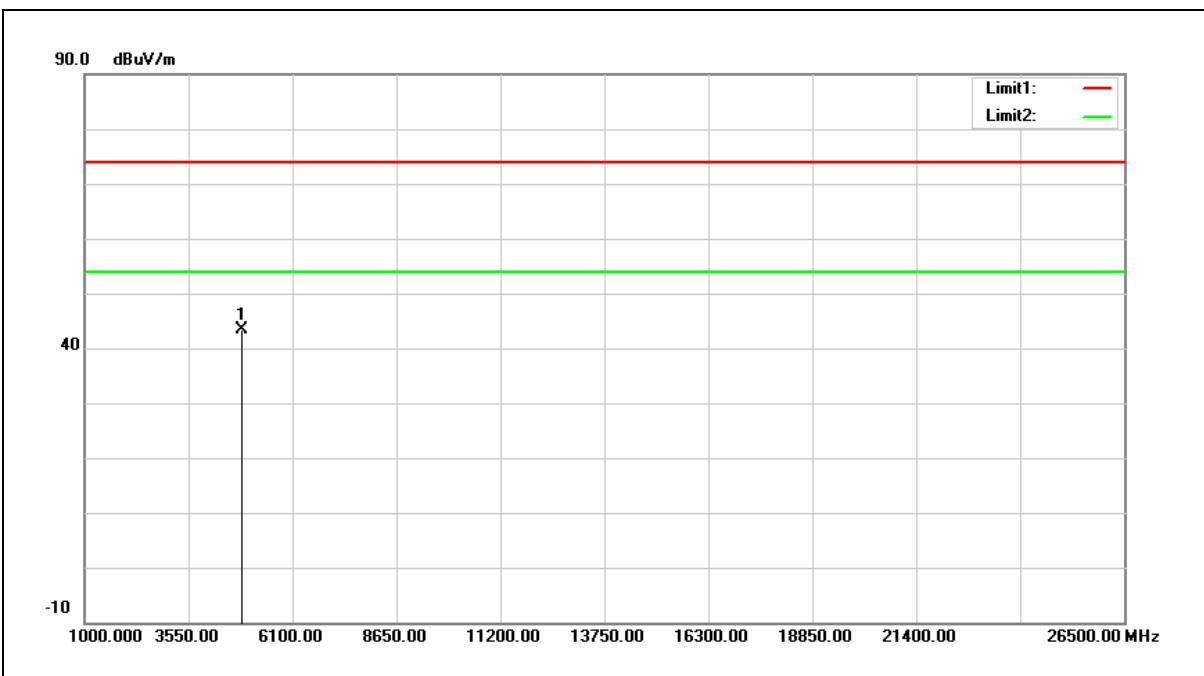
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	35.68	5.36	41.04	74.00	-32.96	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



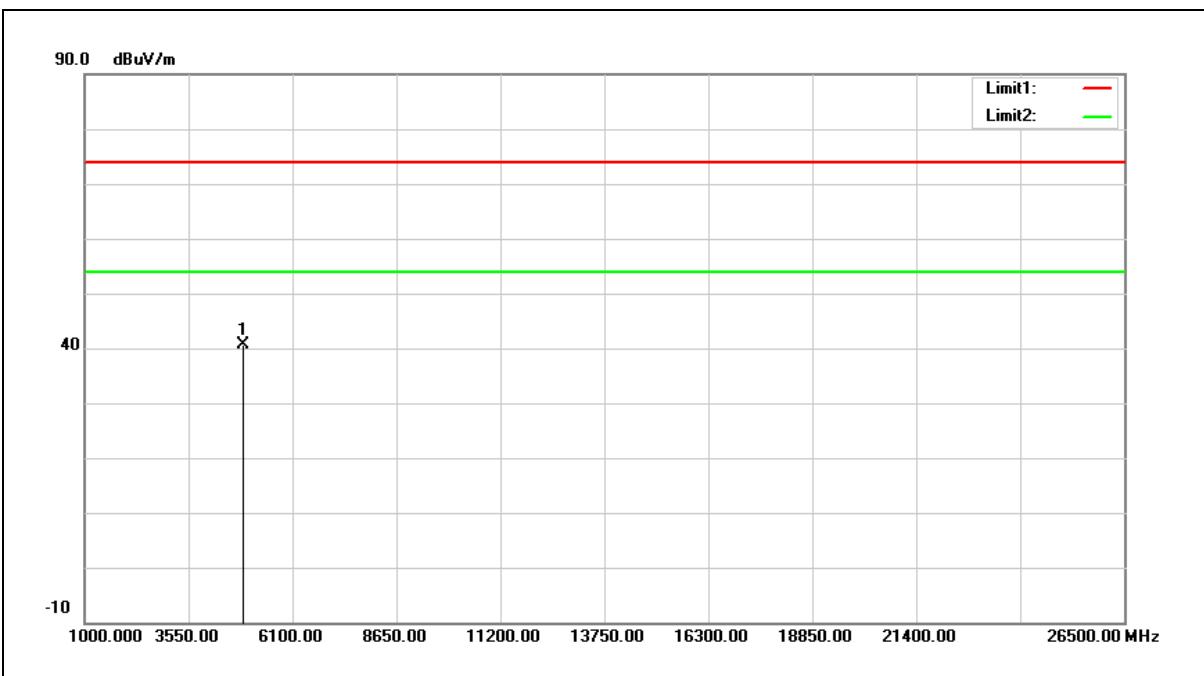
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	37.99	5.36	43.35	74.00	-30.65	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



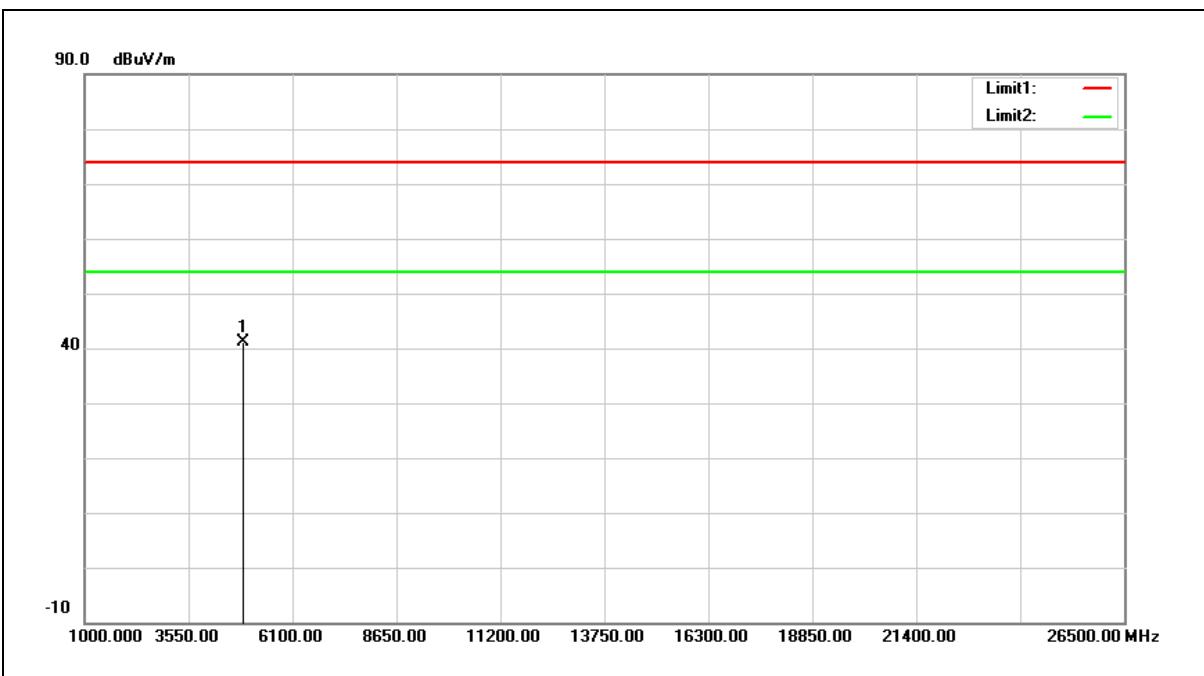
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	35.08	5.46	40.54	74.00	-33.46	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	35.56	5.46	41.02	74.00	-32.98	peak

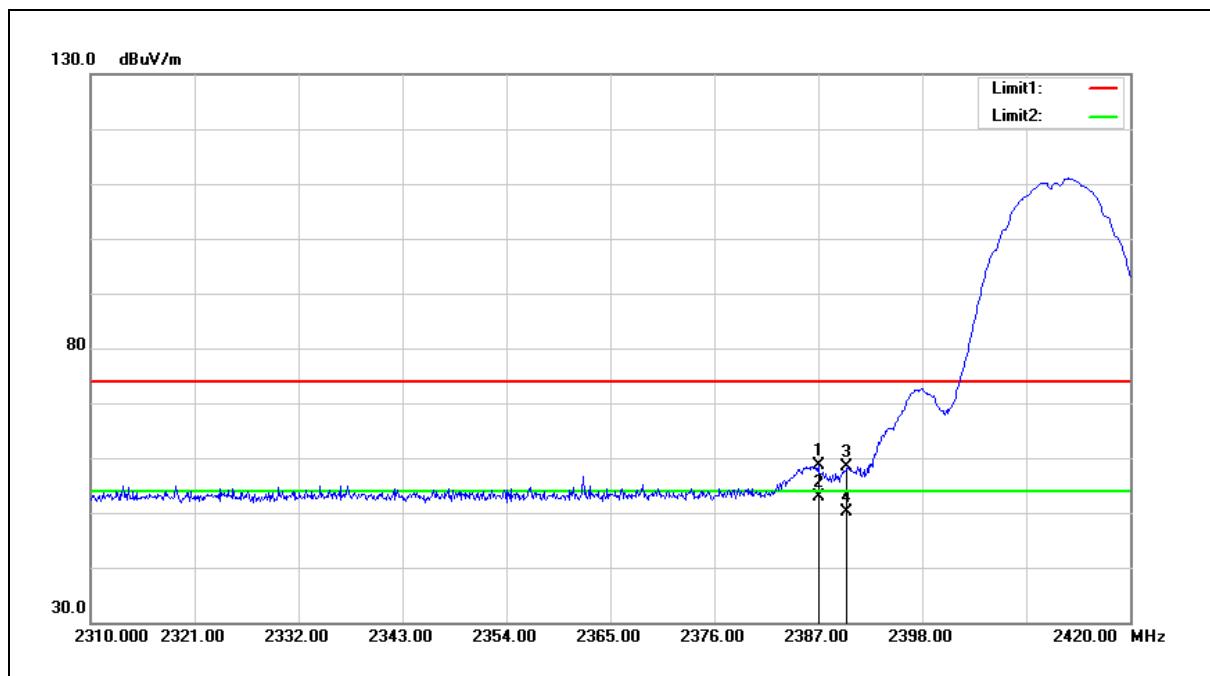
Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

## Band Edge

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



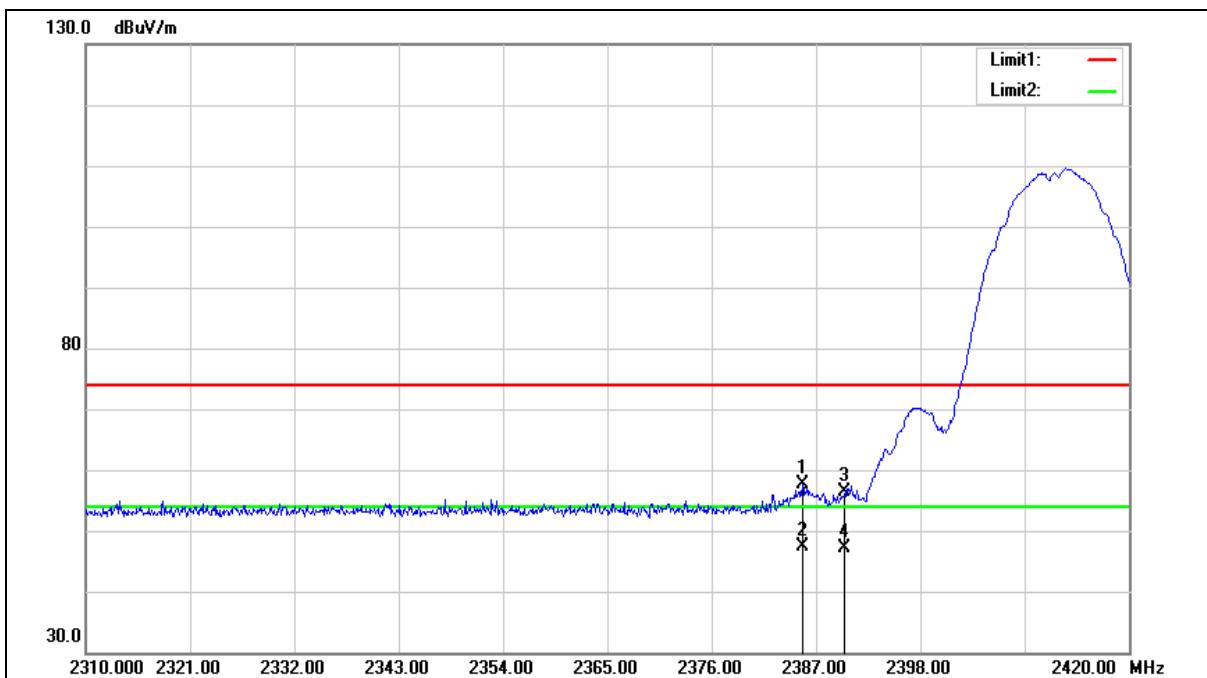
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.000	60.36	-1.66	58.70	74.00	-15.30	peak
2	2387.000	54.44	-1.66	52.78	54.00	-1.22	Avg
3	2390.000	60.00	-1.66	58.34	74.00	-15.66	peak
4	2390.000	51.89	-1.66	50.23	54.00	-3.77	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



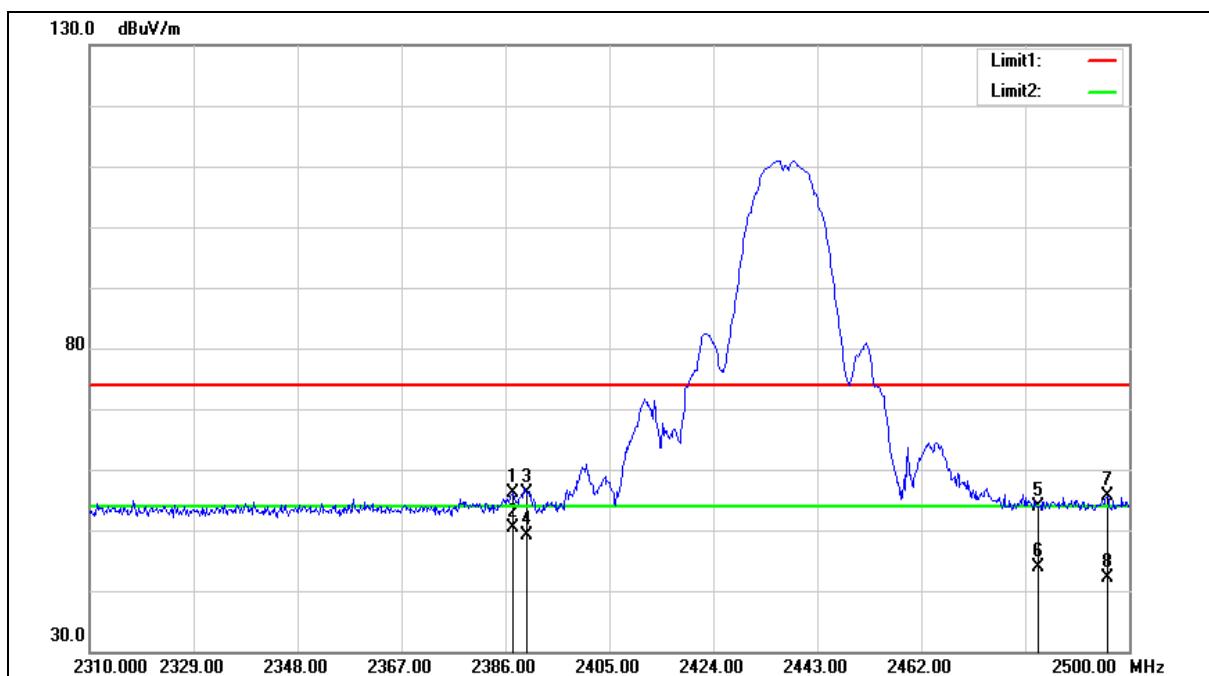
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.570	59.38	-1.68	57.70	74.00	-16.30	peak
2	2385.570	49.00	-1.68	47.32	54.00	-6.68	peak
3	2390.000	58.00	-1.66	56.34	74.00	-17.66	peak
4	2390.000	48.77	-1.66	47.11	54.00	-6.89	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

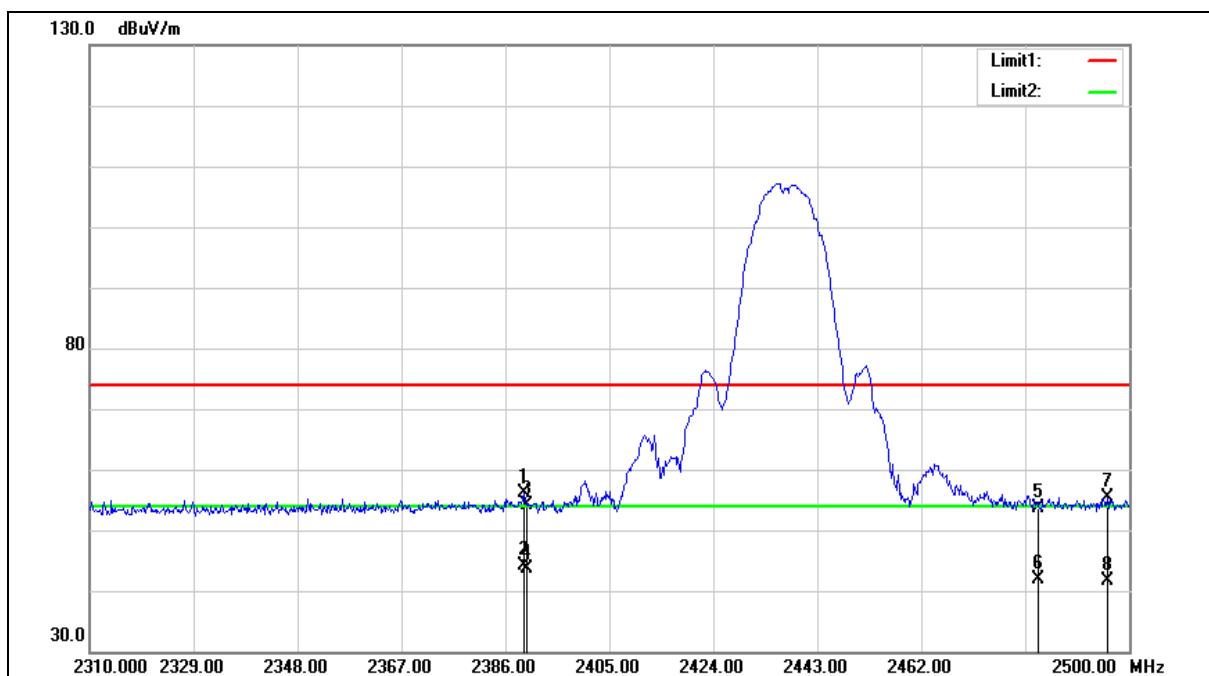
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.330	57.75	-1.66	56.09	74.00	-17.91	peak
2	2387.330	51.99	-1.66	50.33	54.00	-3.67	AVG
3	2390.000	57.75	-1.66	56.09	74.00	-17.91	peak
4	2390.000	50.72	-1.66	49.06	54.00	-4.94	AVG
5	2483.500	55.15	-1.31	53.84	74.00	-20.16	peak
6	2483.500	45.27	-1.31	43.96	54.00	-10.04	AVG
7	2496.010	56.80	-1.26	55.54	74.00	-18.46	peak
8	2496.010	43.34	-1.26	42.08	54.00	-11.92	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

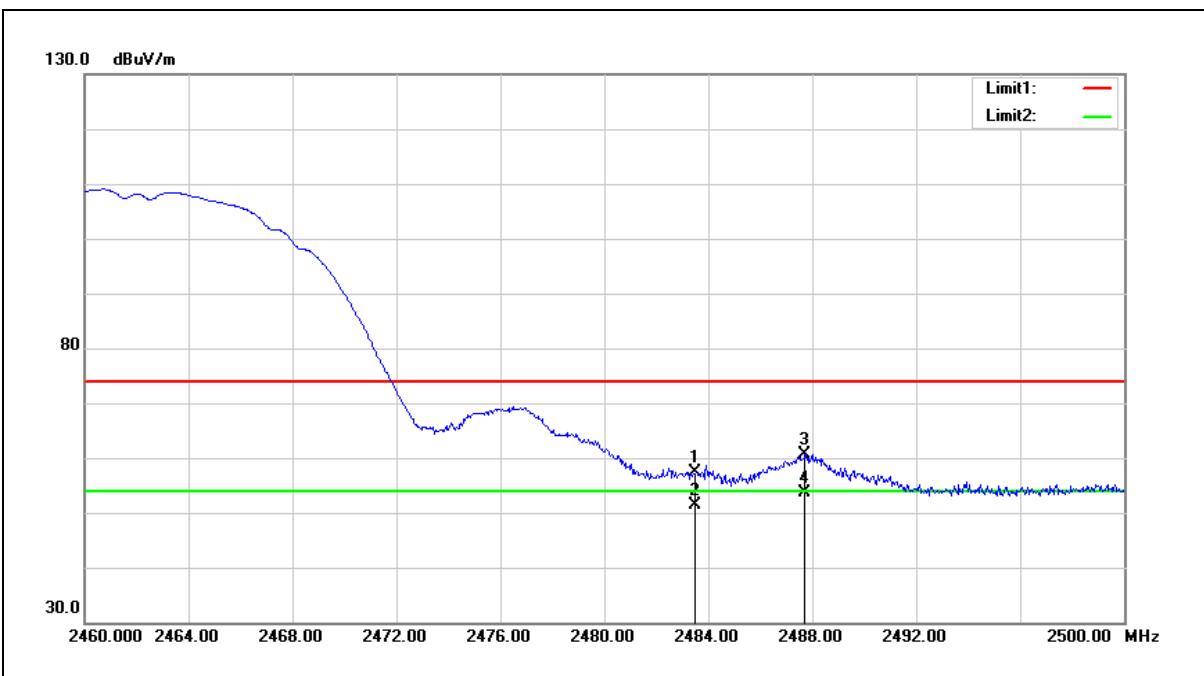
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.420	57.79	-1.66	56.13	74.00	-17.87	peak
2	2389.420	45.76	-1.66	44.10	54.00	-9.90	AVG
3	2390.000	55.86	-1.66	54.20	74.00	-19.80	peak
4	2390.000	45.23	-1.66	43.57	54.00	-10.43	AVG
5	2483.500	54.94	-1.31	53.63	74.00	-20.37	peak
6	2483.500	43.23	-1.31	41.92	54.00	-12.08	AVG
7	2496.010	56.72	-1.26	55.46	74.00	-18.54	peak
8	2496.010	42.87	-1.26	41.61	54.00	-12.39	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



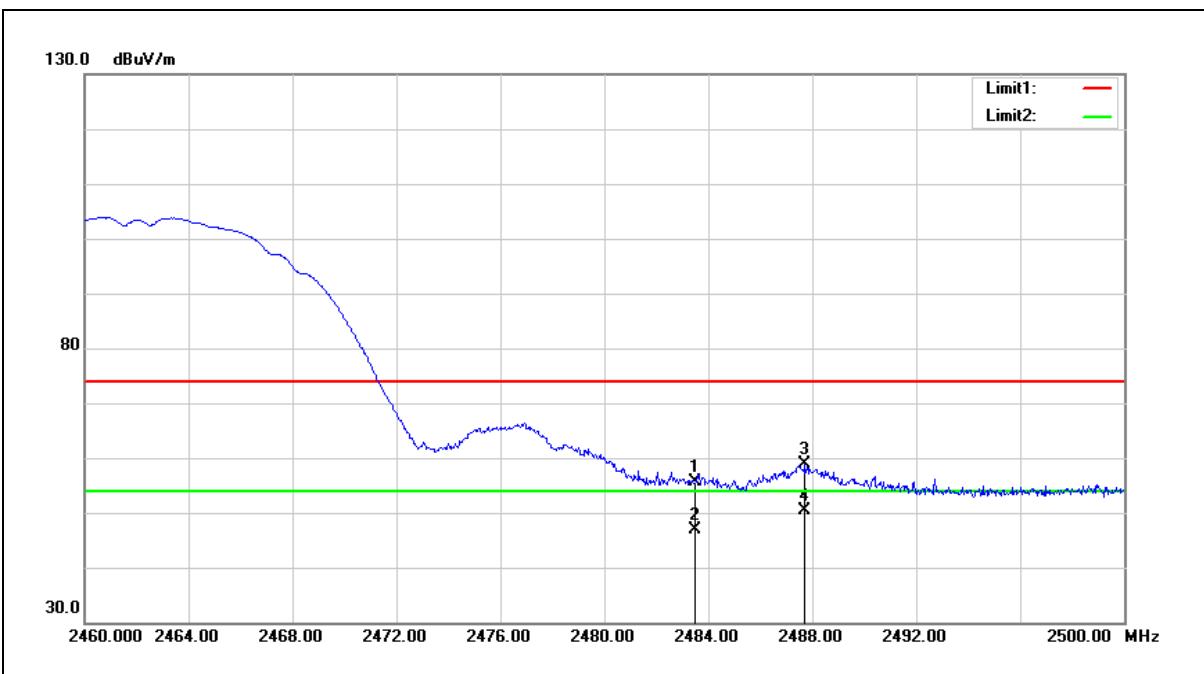
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	58.72	-1.31	57.41	74.00	-16.59	peak
2	2483.500	52.68	-1.31	51.37	54.00	-2.63	Avg
3	2487.720	62.03	-1.29	60.74	74.00	-13.26	peak
4	2487.720	54.97	-1.29	53.68	54.00	-0.32	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



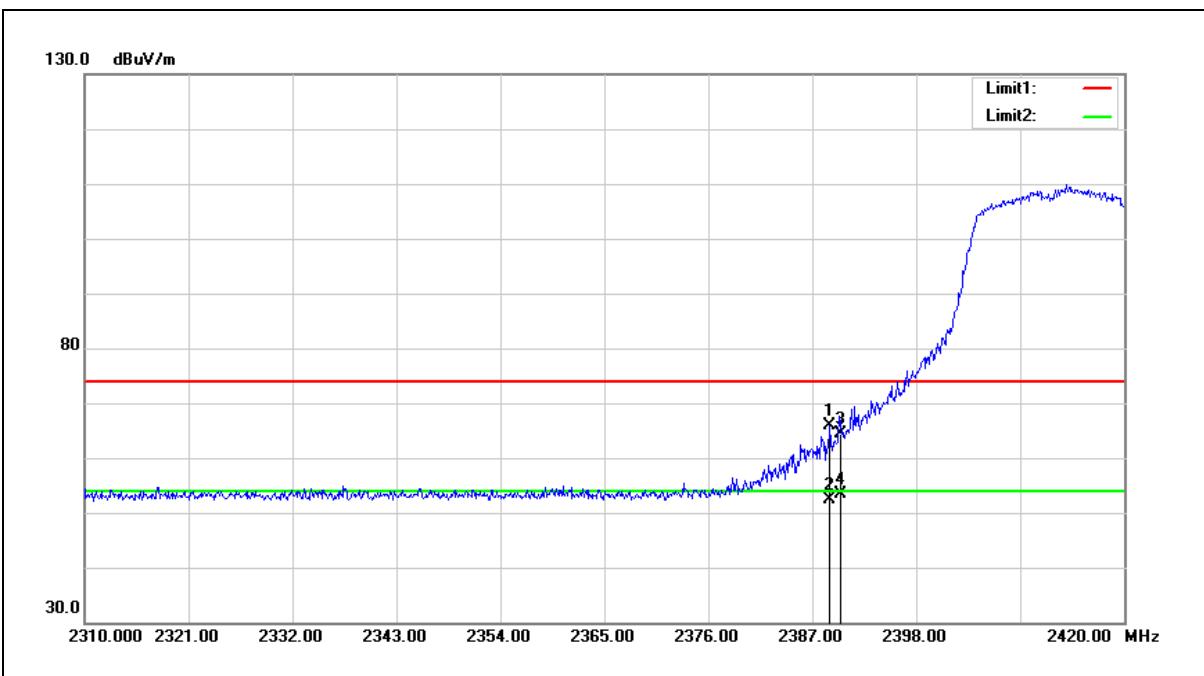
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	56.91	-1.31	55.60	74.00	-18.40	peak
2	2483.500	48.12	-1.31	46.81	54.00	-7.19	Avg
3	2487.720	60.11	-1.29	58.82	74.00	-15.18	peak
4	2487.720	51.64	-1.29	50.35	54.00	-3.65	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



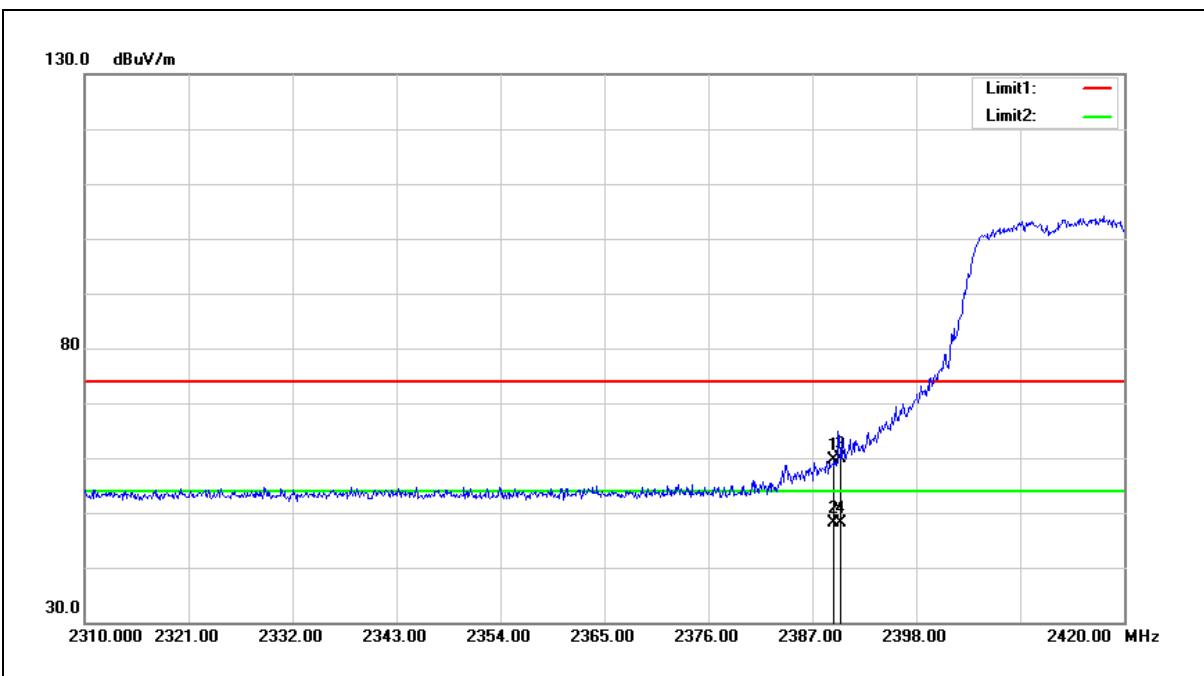
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.870	67.51	-1.66	65.85	74.00	-8.15	peak
2	2388.870	54.07	-1.66	52.41	54.00	-1.59	Avg
3	2390.000	66.13	-1.66	64.47	74.00	-9.53	peak
4	2390.000	55.16	-1.66	53.50	54.00	-0.50	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



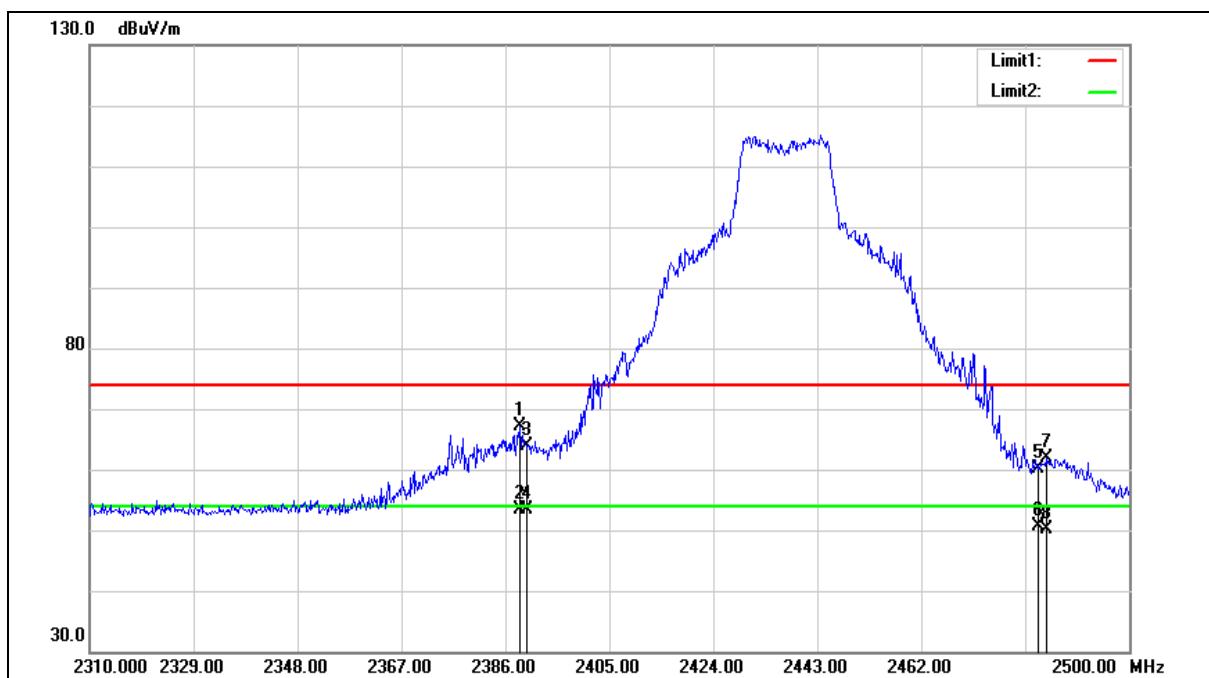
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.310	61.31	-1.66	59.65	74.00	-14.35	peak
2	2389.310	49.68	-1.66	48.02	54.00	-5.98	Avg
3	2390.000	61.59	-1.66	59.93	74.00	-14.07	peak
4	2390.000	49.84	-1.66	48.18	54.00	-5.82	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

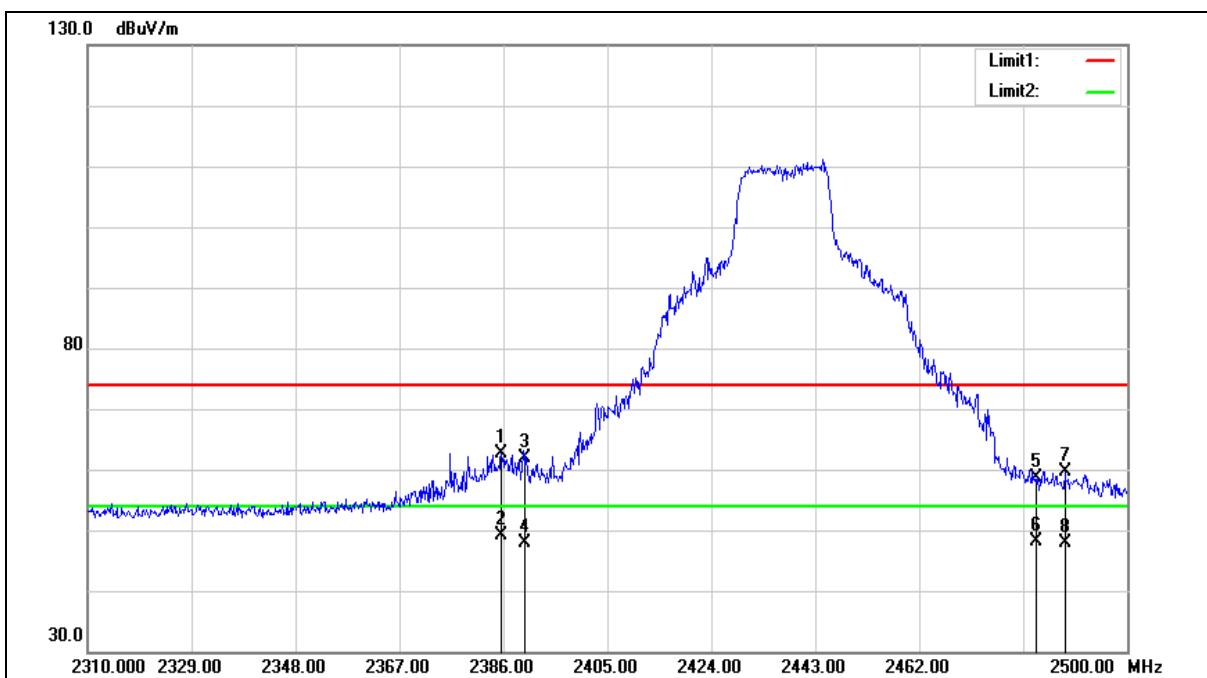
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.660	68.80	-1.66	67.14	74.00	-6.86	peak
2	2388.660	54.92	-1.66	53.26	54.00	-0.74	AVG
3	2390.000	65.61	-1.66	63.95	74.00	-10.05	peak
4	2390.000	54.93	-1.66	53.27	54.00	-0.73	AVG
5	2483.500	61.34	-1.31	60.03	74.00	-13.97	peak
6	2483.500	51.94	-1.31	50.63	54.00	-3.37	AVG
7	2484.800	63.20	-1.31	61.89	74.00	-12.11	peak
8	2484.800	51.39	-1.31	50.08	54.00	-3.92	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

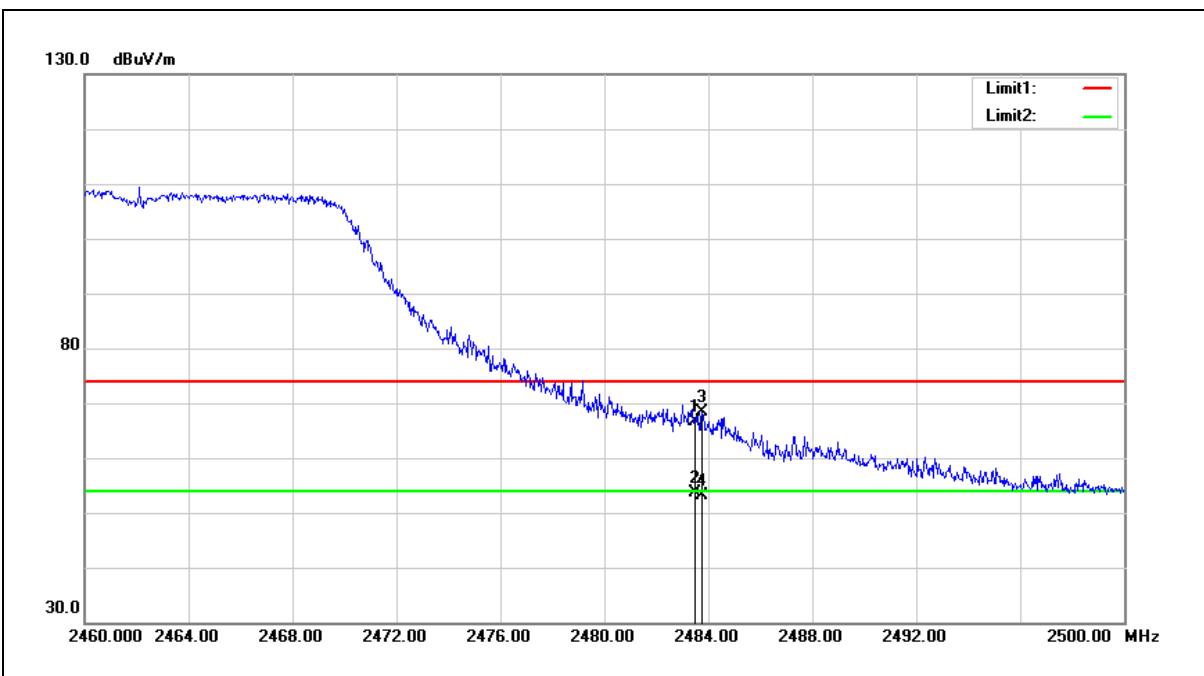
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.620	64.33	-1.67	62.66	74.00	-11.34	peak
2	2385.620	50.83	-1.67	49.16	54.00	-4.84	AVG
3	2390.000	63.47	-1.66	61.81	74.00	-12.19	peak
4	2390.000	49.66	-1.66	48.00	54.00	-6.00	AVG
5	2483.500	59.82	-1.31	58.51	74.00	-15.49	peak
6	2483.500	49.32	-1.31	48.01	54.00	-5.99	AVG
7	2488.600	61.00	-1.29	59.71	74.00	-14.29	peak
8	2488.600	49.11	-1.29	47.82	54.00	-6.18	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



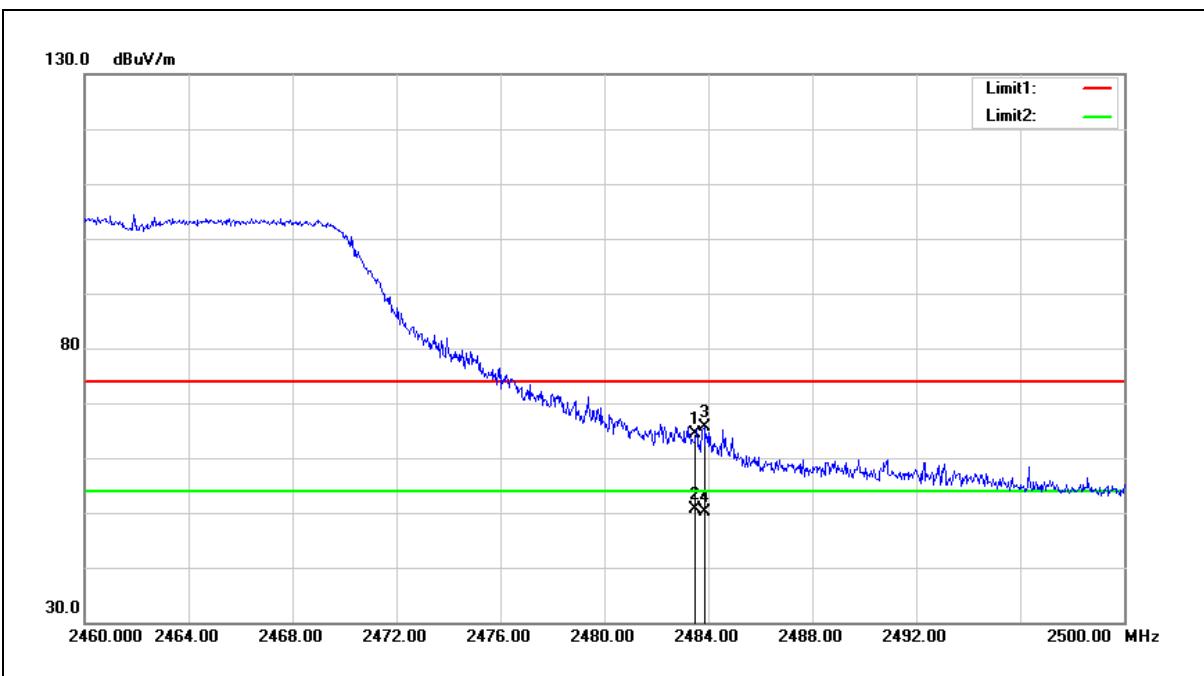
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	67.95	-1.31	66.64	74.00	-7.36	peak
2	2483.500	54.95	-1.31	53.64	54.00	-0.36	Avg
3	2483.760	69.57	-1.31	68.26	74.00	-5.74	peak
4	2483.760	54.48	-1.31	53.17	54.00	-0.83	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



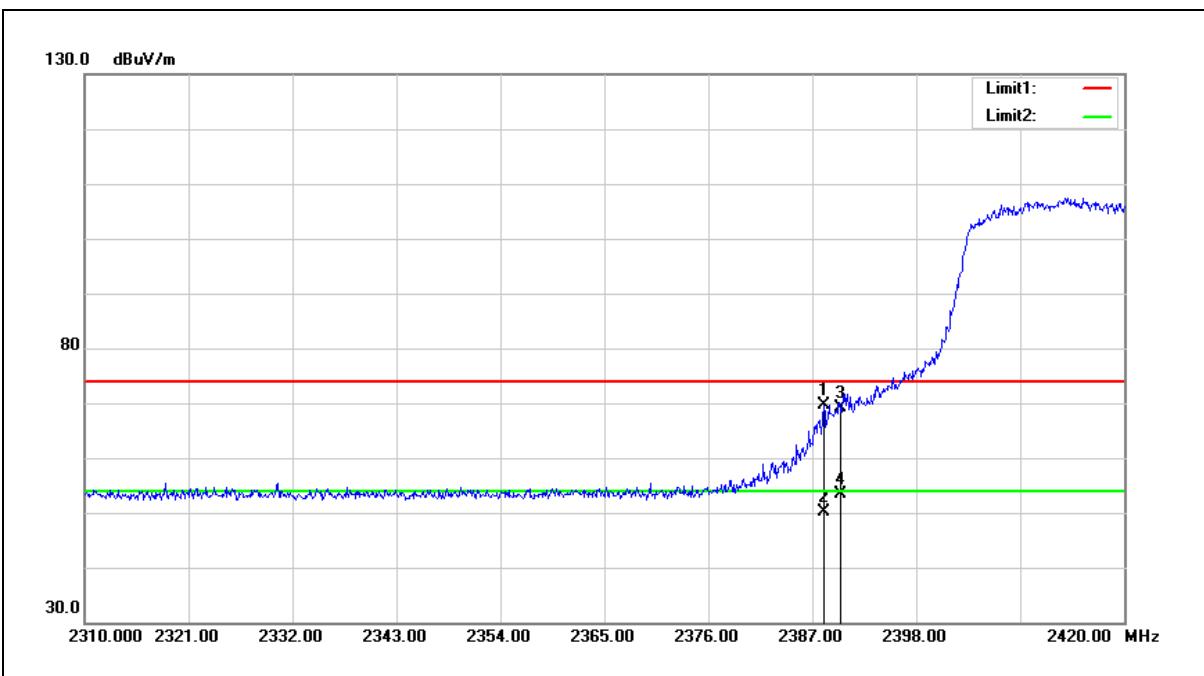
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	65.63	-1.31	64.32	74.00	-9.68	peak
2	2483.500	51.82	-1.31	50.51	54.00	-3.49	Avg
3	2483.840	67.00	-1.31	65.69	74.00	-8.31	peak
4	2483.840	51.37	-1.31	50.06	54.00	-3.94	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



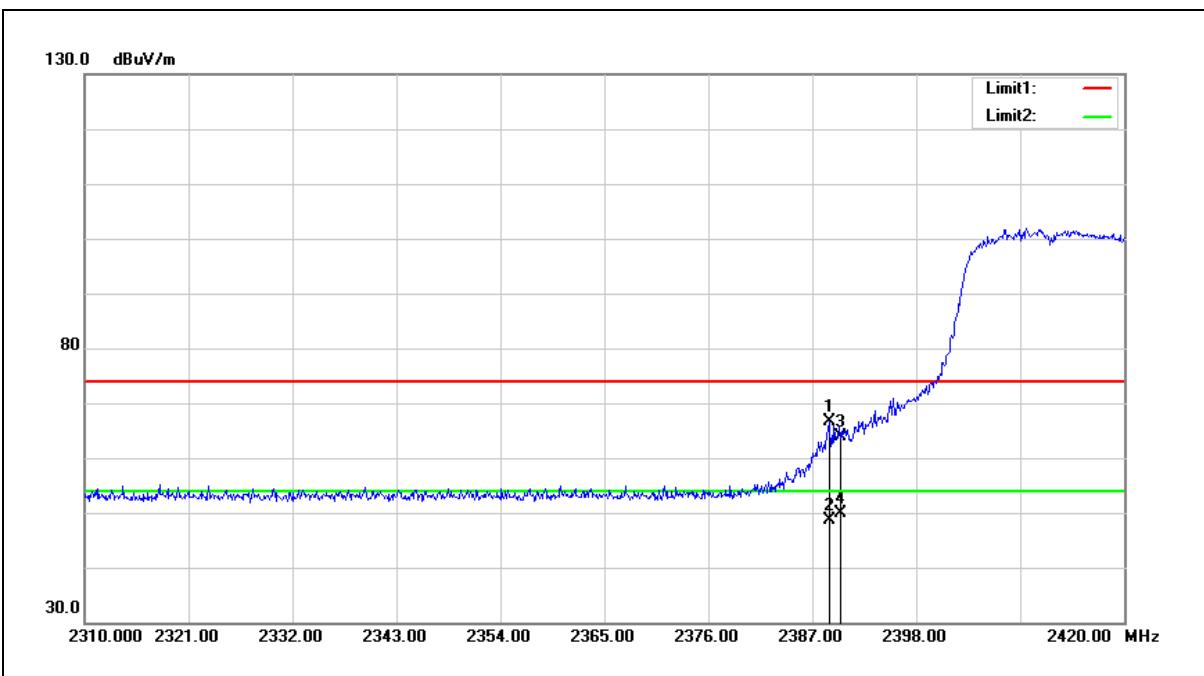
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.210	71.18	-1.66	69.52	74.00	-4.48	peak
2	2388.210	51.77	-1.66	50.11	54.00	-3.89	Avg
3	2390.000	70.77	-1.66	69.11	74.00	-4.89	peak
4	2390.000	55.06	-1.66	53.40	54.00	-0.60	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



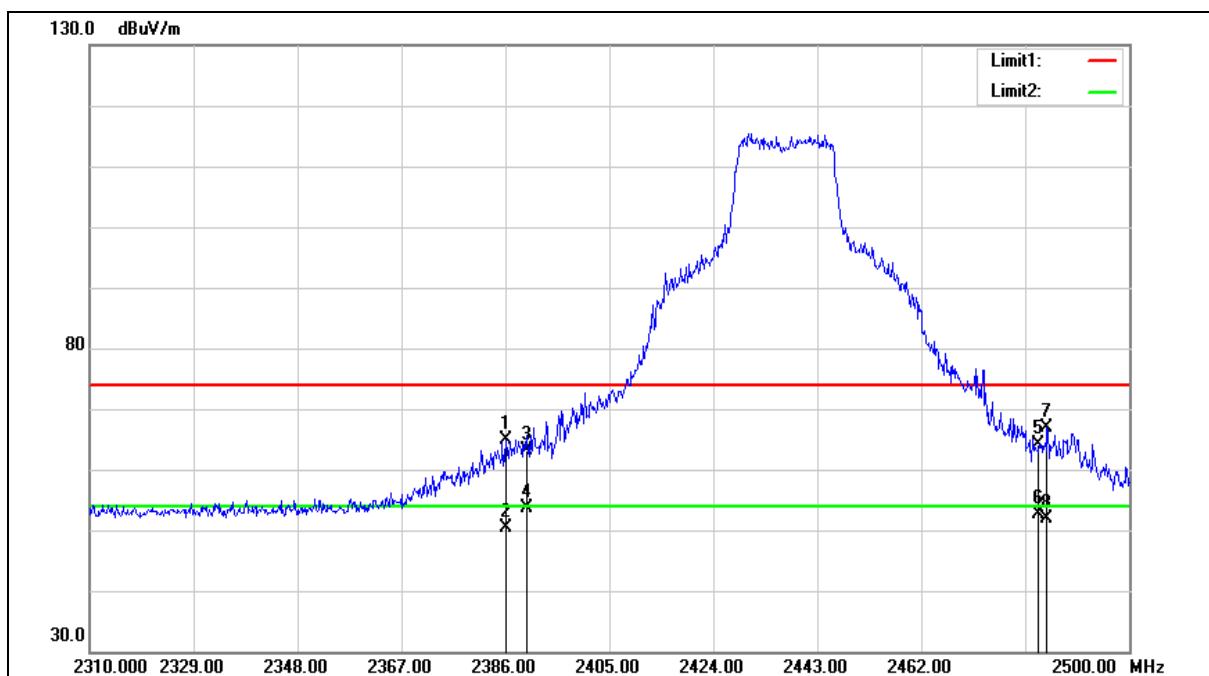
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.760	68.33	-1.66	66.67	74.00	-7.33	peak
2	2388.760	50.18	-1.66	48.52	54.00	-5.48	Avg
3	2390.000	65.51	-1.66	63.85	74.00	-10.15	peak
4	2390.000	51.59	-1.66	49.93	54.00	-4.07	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

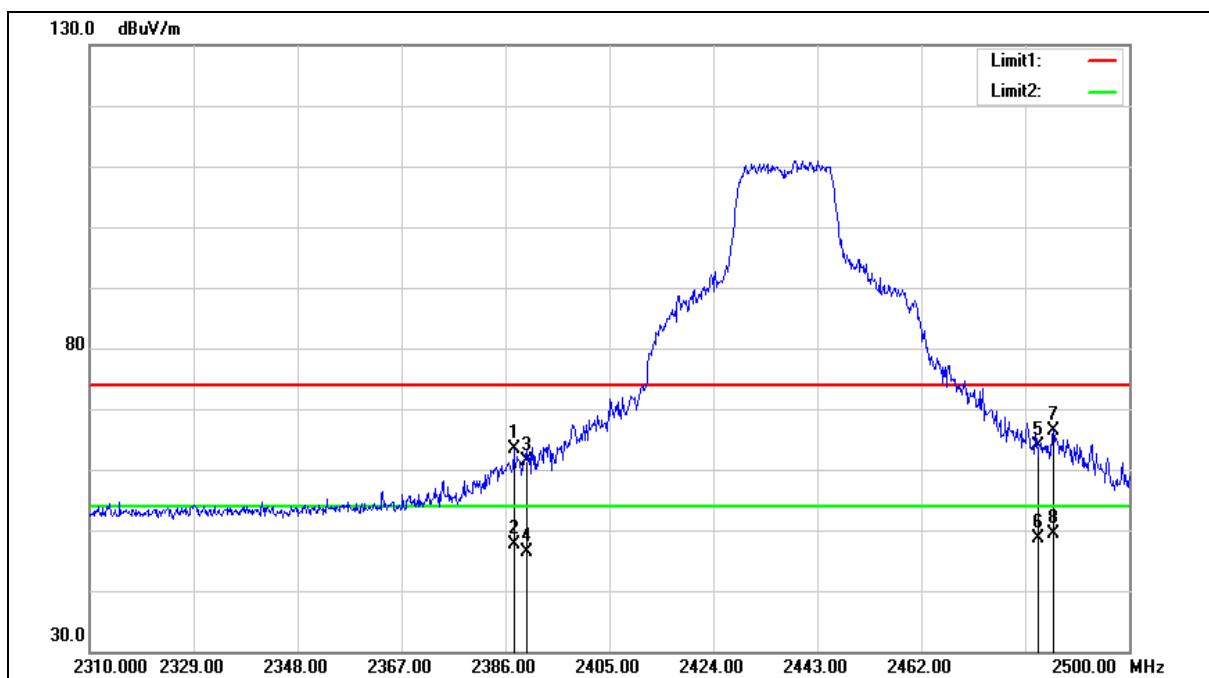
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.000	66.62	-1.67	64.95	74.00	-9.05	peak
2	2386.000	51.98	-1.67	50.31	54.00	-3.69	AVG
3	2390.000	64.84	-1.66	63.18	74.00	-10.82	peak
4	2390.000	55.31	-1.66	53.65	54.00	-0.35	AVG
5	2483.500	65.44	-1.31	64.13	74.00	-9.87	peak
6	2483.500	53.97	-1.31	52.66	54.00	-1.34	AVG
7	2484.990	68.25	-1.31	66.94	74.00	-7.06	peak
8	2484.990	53.25	-1.31	51.94	54.00	-2.06	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

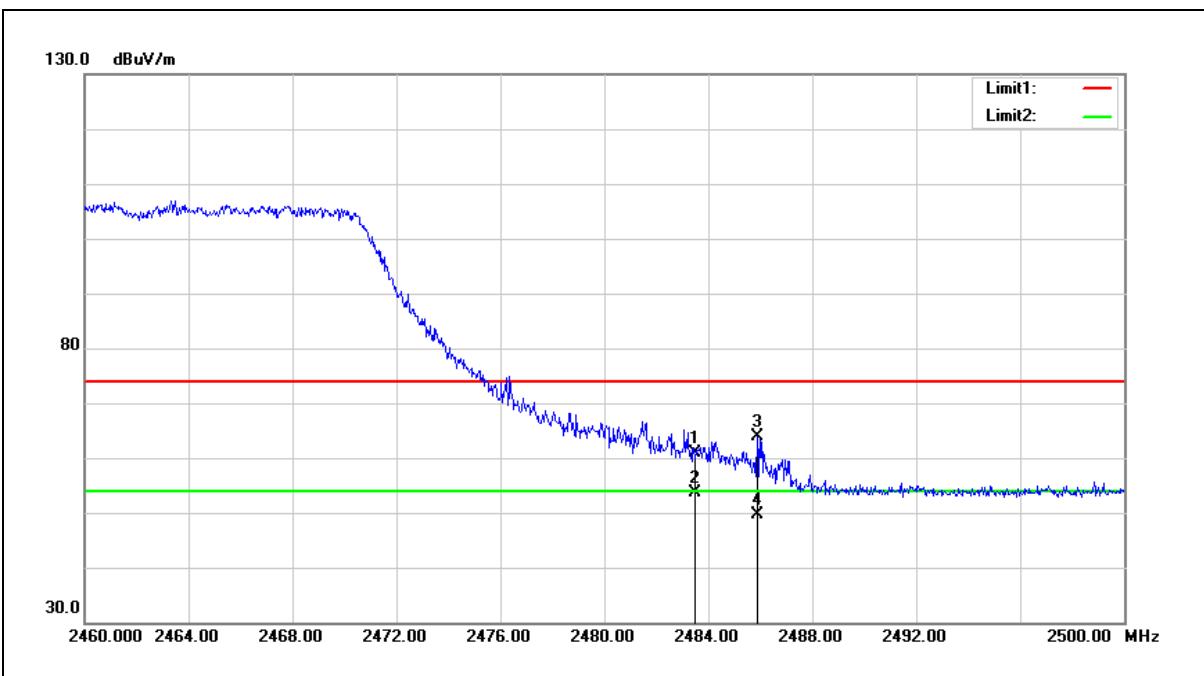
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.520	65.07	-1.66	63.41	74.00	-10.59	peak
2	2387.520	49.37	-1.66	47.71	54.00	-6.29	AVG
3	2390.000	63.09	-1.66	61.43	74.00	-12.57	peak
4	2390.000	48.13	-1.66	46.47	54.00	-7.53	AVG
5	2483.500	65.29	-1.31	63.98	74.00	-10.02	peak
6	2483.500	49.98	-1.31	48.67	54.00	-5.33	AVG
7	2486.130	67.60	-1.31	66.29	74.00	-7.71	peak
8	2486.130	50.73	-1.31	49.42	54.00	-4.58	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



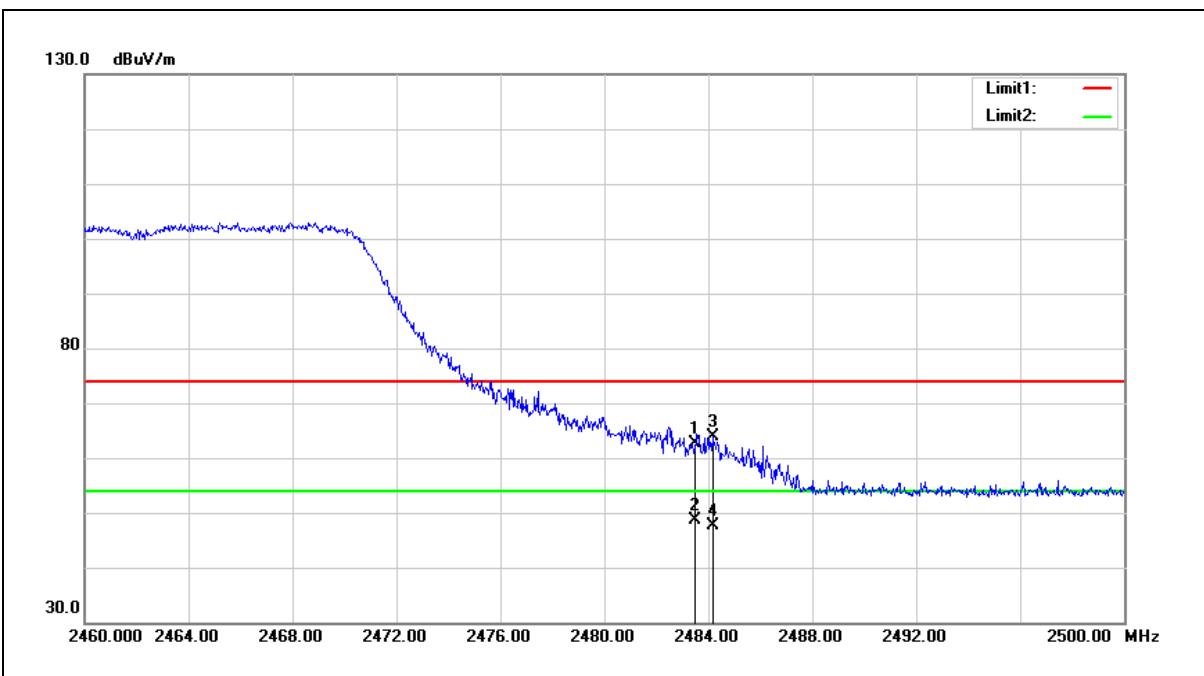
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	62.29	-1.31	60.98	74.00	-13.02	peak
2	2483.500	54.89	-1.31	53.58	54.00	-0.42	Avg
3	2485.880	65.11	-1.31	63.80	74.00	-10.20	peak
4	2485.880	50.91	-1.31	49.60	54.00	-4.40	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



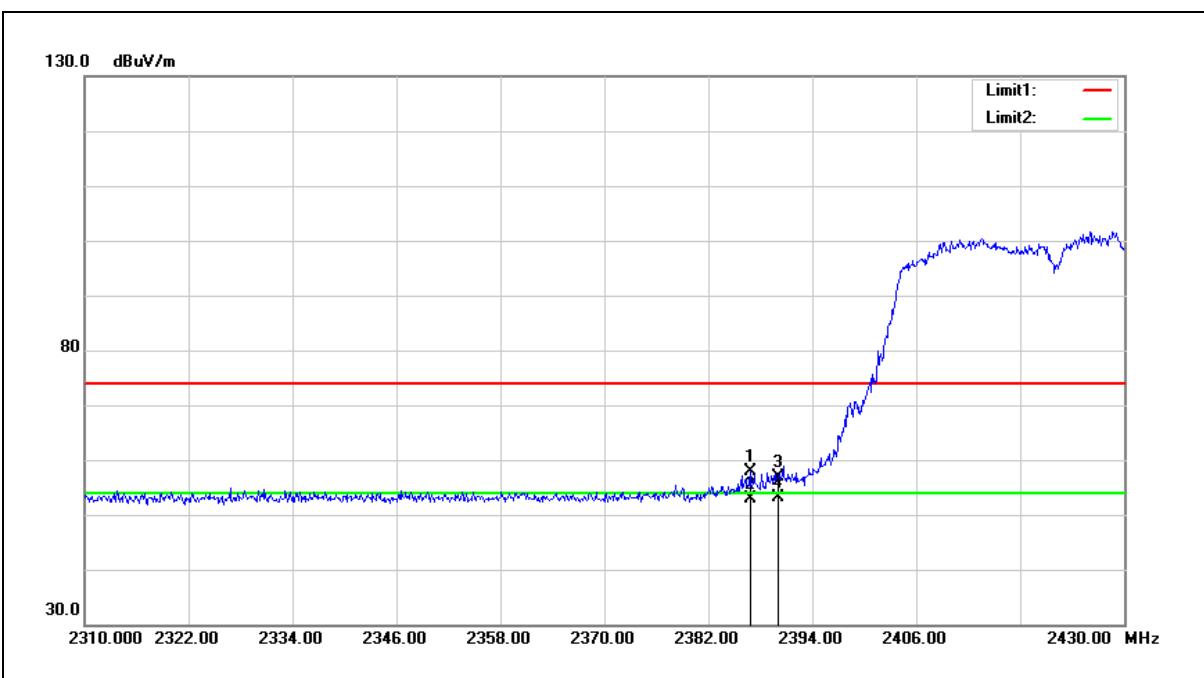
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	63.92	-1.31	62.61	74.00	-11.39	peak
2	2483.500	50.06	-1.31	48.75	54.00	-5.25	Avg
3	2484.160	65.24	-1.31	63.93	74.00	-10.07	peak
4	2484.160	49.05	-1.31	47.74	54.00	-6.26	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



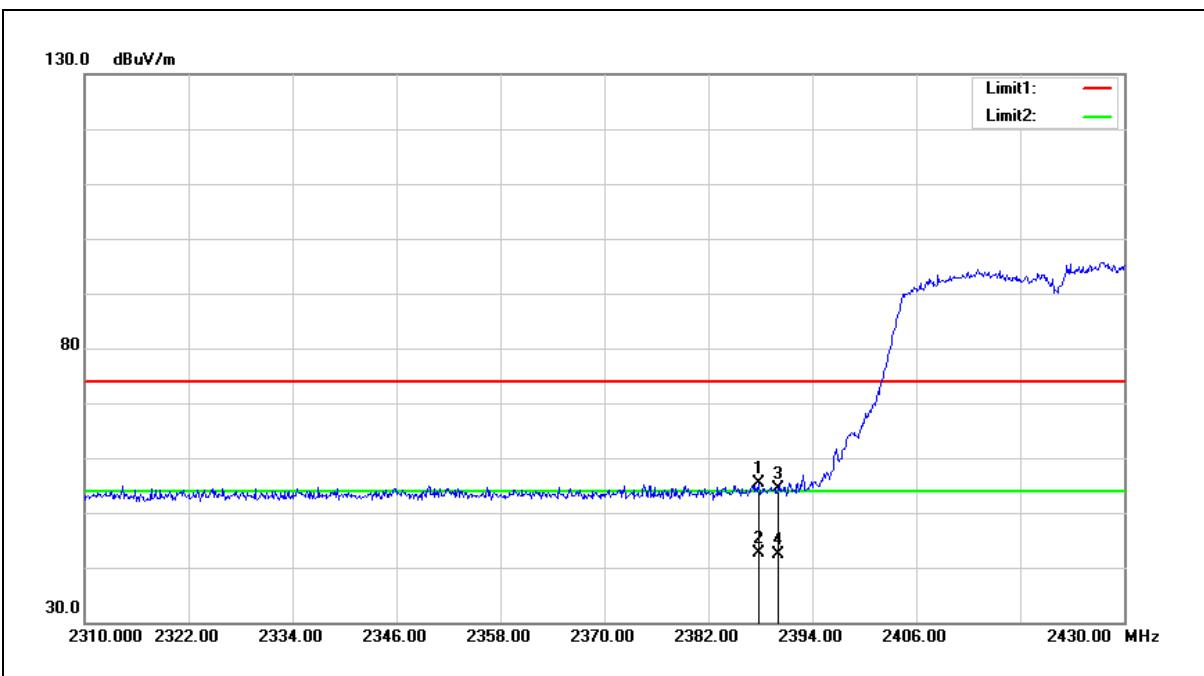
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.800	59.55	-1.66	57.89	74.00	-16.11	peak
2	2386.800	54.48	-1.66	52.82	54.00	-1.18	Avg
3	2390.000	58.56	-1.66	56.90	74.00	-17.10	peak
4	2390.000	54.81	-1.66	53.15	54.00	-0.85	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



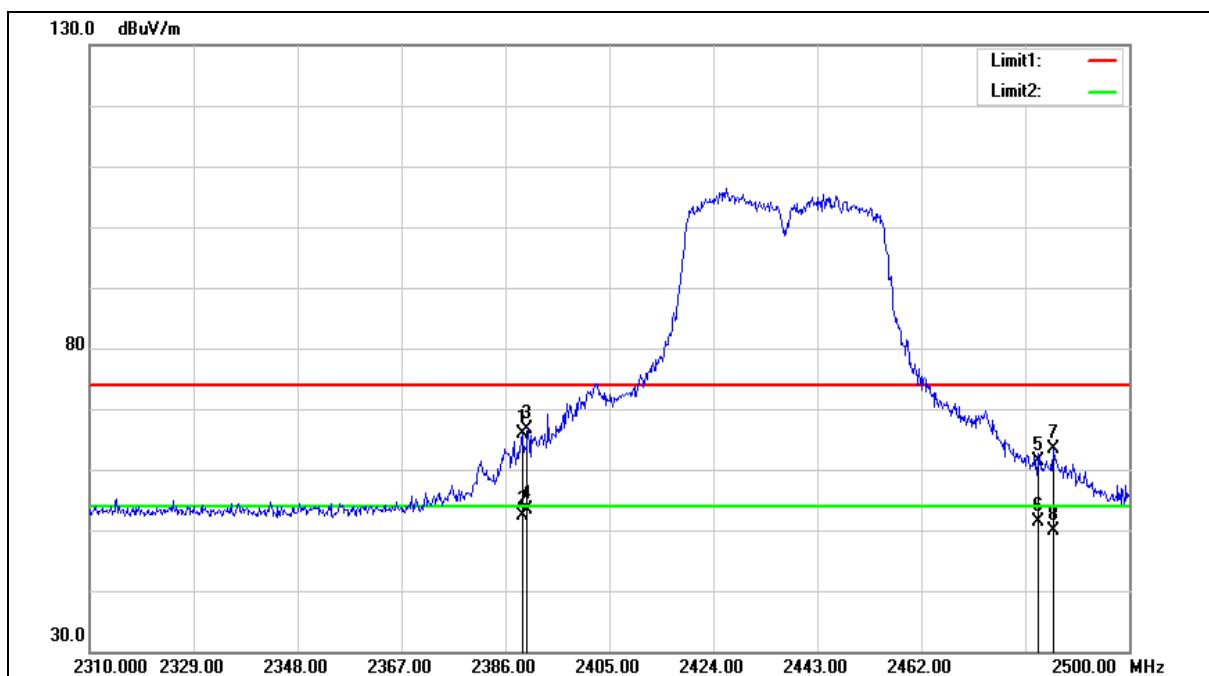
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.760	56.94	-1.66	55.28	74.00	-18.72	peak
2	2387.760	44.36	-1.66	42.70	54.00	-11.30	Avg
3	2390.000	56.05	-1.66	54.39	74.00	-19.61	peak
4	2390.000	44.09	-1.66	42.43	54.00	-11.57	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

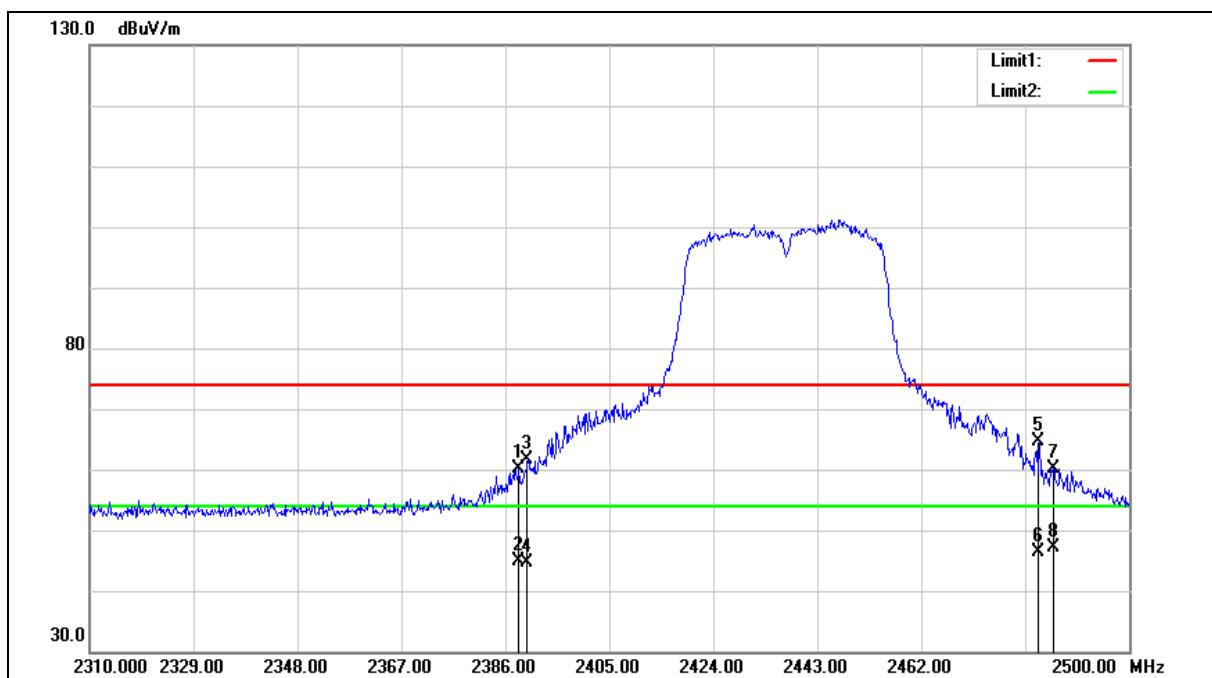
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.040	67.62	-1.66	65.96	74.00	-8.04	peak
2	2389.040	54.14	-1.66	52.48	54.00	-1.52	AVG
3	2390.000	68.38	-1.66	66.72	74.00	-7.28	peak
4	2390.000	54.92	-1.66	53.26	54.00	-0.74	AVG
5	2483.500	62.65	-1.31	61.34	74.00	-12.66	peak
6	2483.500	52.80	-1.31	51.49	54.00	-2.51	AVG
7	2486.130	64.73	-1.31	63.42	74.00	-10.58	peak
8	2486.130	51.22	-1.31	49.91	54.00	-4.09	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

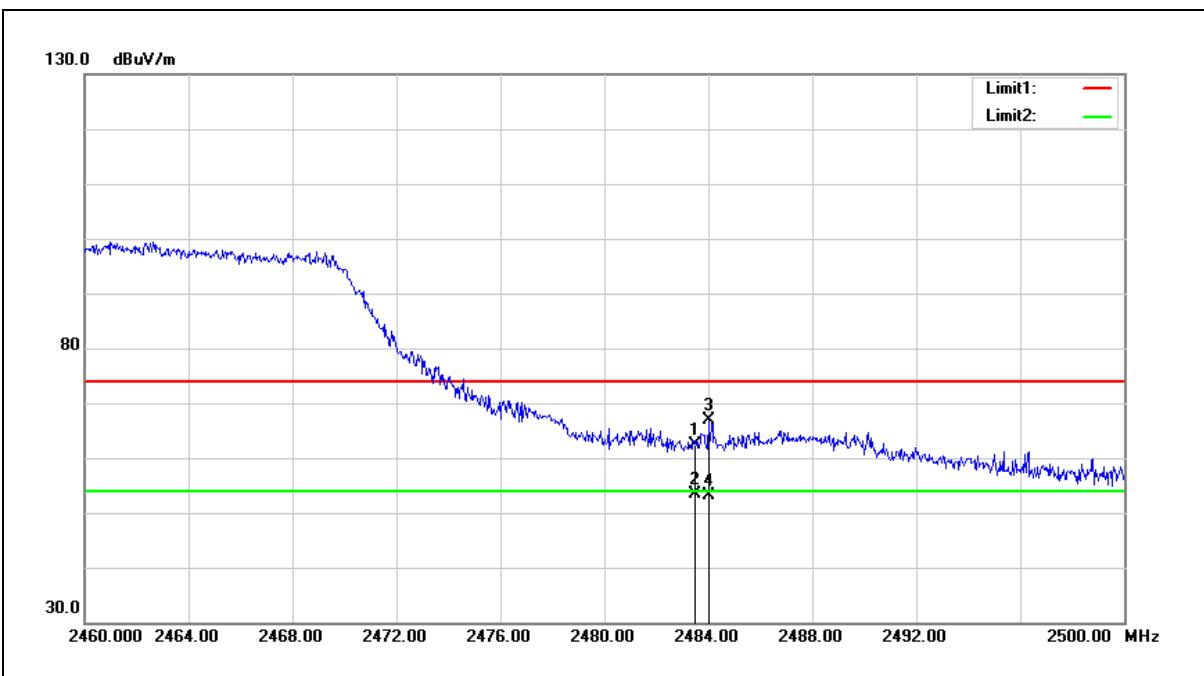
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.470	61.85	-1.66	60.19	74.00	-13.81	peak
2	2388.470	46.59	-1.66	44.93	54.00	-9.07	AVG
3	2390.000	63.19	-1.66	61.53	74.00	-12.47	peak
4	2390.000	46.37	-1.66	44.71	54.00	-9.29	AVG
5	2483.500	66.06	-1.31	64.75	74.00	-9.25	peak
6	2483.500	47.65	-1.31	46.34	54.00	-7.66	AVG
7	2486.130	61.54	-1.31	60.23	74.00	-13.77	peak
8	2486.130	48.44	-1.31	47.13	54.00	-6.87	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



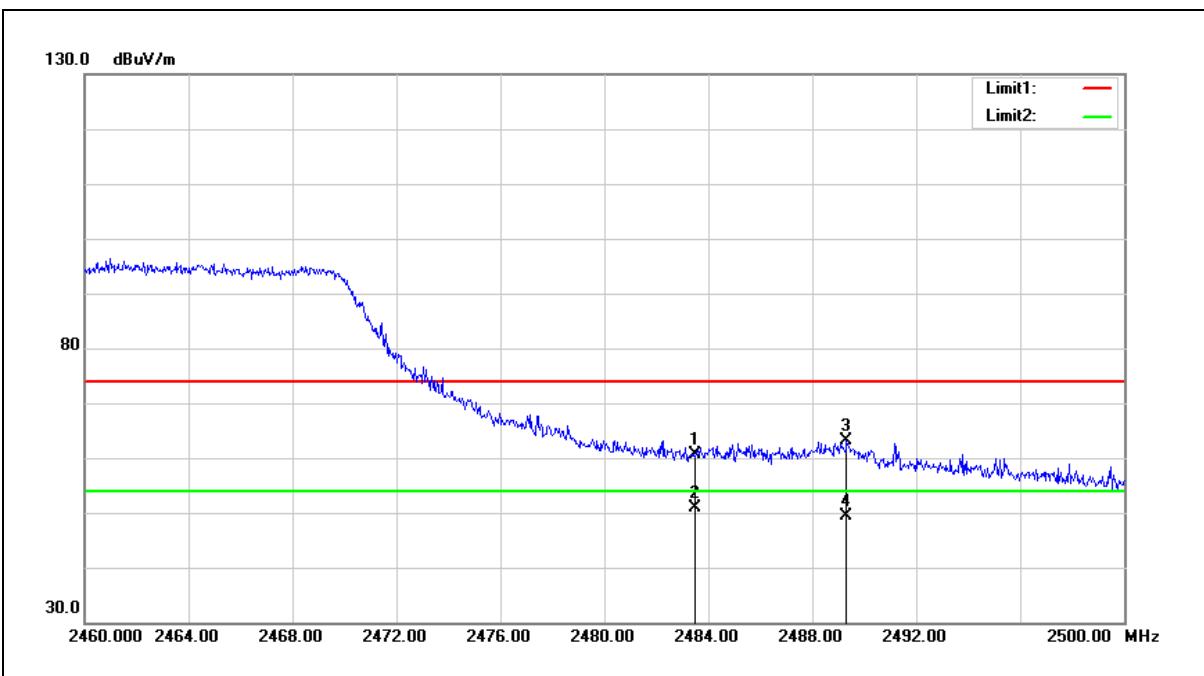
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	63.80	-1.31	62.49	74.00	-11.51	peak
2	2483.500	54.79	-1.31	53.48	54.00	-0.52	Avg
3	2484.000	68.30	-1.31	66.99	74.00	-7.01	peak
4	2484.000	54.49	-1.31	53.18	54.00	-0.82	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.247	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	62.00	-1.31	60.69	74.00	-13.31	peak
2	2483.500	52.27	-1.31	50.96	54.00	-3.04	Avg
3	2489.320	64.36	-1.29	63.07	74.00	-10.93	peak
4	2489.320	50.68	-1.29	49.39	54.00	-4.61	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.