

RF Test Report

Applicant : DIGI SINGAPORE PTE LTD
Product Type : IEEE 802.11a/b/g/n/ac 2x2 WirelessLAN USB Client
Trade Name : DIGI
Model Number : AP-3002AN
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
ANSI C63.10:2013
Receive Date : Oct. 04, 2018
Test Period : Oct. 22 ~ Nov. 01, 2018
Issue Date : Nov. 14, 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. 14, 2018	Initial Issue	Nina Lin

Verification of Compliance

Issued Date: Nov. 14, 2018

Applicant : DIGI SINGAPORE PTE LTD

Product Type : IEEE 802.11a/b/g/n/ac 2x2 WirelessLAN USB Client

Trade Name : DIGI

Model Number : AP-3002AN

FCC ID : SUFAP3002AN

EUT Rated Voltage : DC 5 V, 680 mA

Test Voltage : 120 Vac / 60 Hz

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

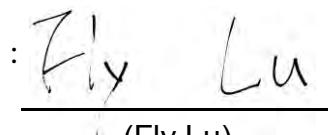
Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.
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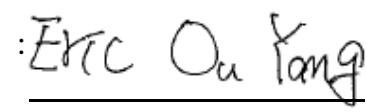
A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. The test results show that 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	DIGI SINGAPORE PTE LTD 4 Leng Kee Rd, #05-03/04/05&11, SIS Building, Singapore 159088			
Manufacturer	DIGI SINGAPORE PTE. LTD. 4 Leng Kee Rd, #05-03/04/05&11, SIS Building, Singapore 159088			
Product Type	IEEE 802.11a/b/g/n/ac 2x2 WirelessLAN USB Client			
Trade Name	DIGI			
Model Number	AP-3002AN			
FCC ID	SUFAP3002AN			
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 173.4 Mbps
IEEE 802.11n 2.4 GHz 40 MHz	2422 ~ 2452	OFDM	40 MHz	Up to 400 Mbps
Antenna information	ANT	Model Number	Type	Max. Gain (dBi)
	ANT-0	AP-3002AN-ANT1	PIFA antenna	2.41
	ANT-1	AP-3002AN-ANT2	PIFA antenna	2.75
	G_{ANT}			2.58
Antenna Delivery	See section 3.1			
Operate Temp. Range	0 ~ +60 °C			

Frequency Band	Max. RF Output Power (W)
IEEE 802.11b	0.068
IEEE 802.11g	0.055
IEEE 802.11n 2.4 GHz 20 MHz	0.098
IEEE 802.11n 2.4 GHz 40 MHz	0.102

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 : Power worst case is ANT-0

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

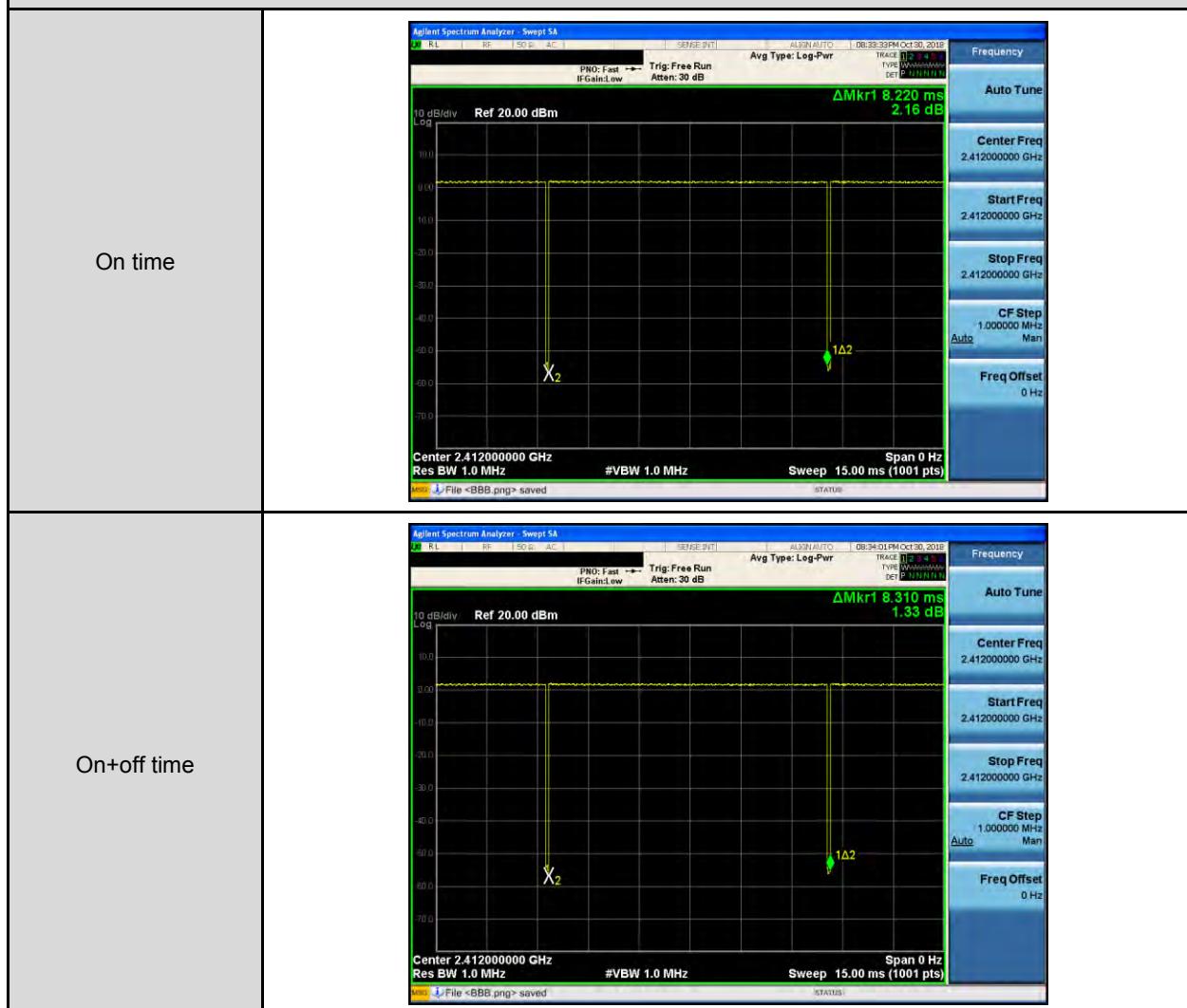
Test Mode	Antenna Delivery	Data Rate	Test Channel
Mode 2	1TX (Diversity)	1 M	1, 6, 11
Mode 3	1TX (Diversity)	6 M	1, 6, 11
Mode 4	2TX (STBC)	13 M	1, 6, 11
Mode 5	2TX (STBC)	27 M	3, 6, 9

Duty cycle

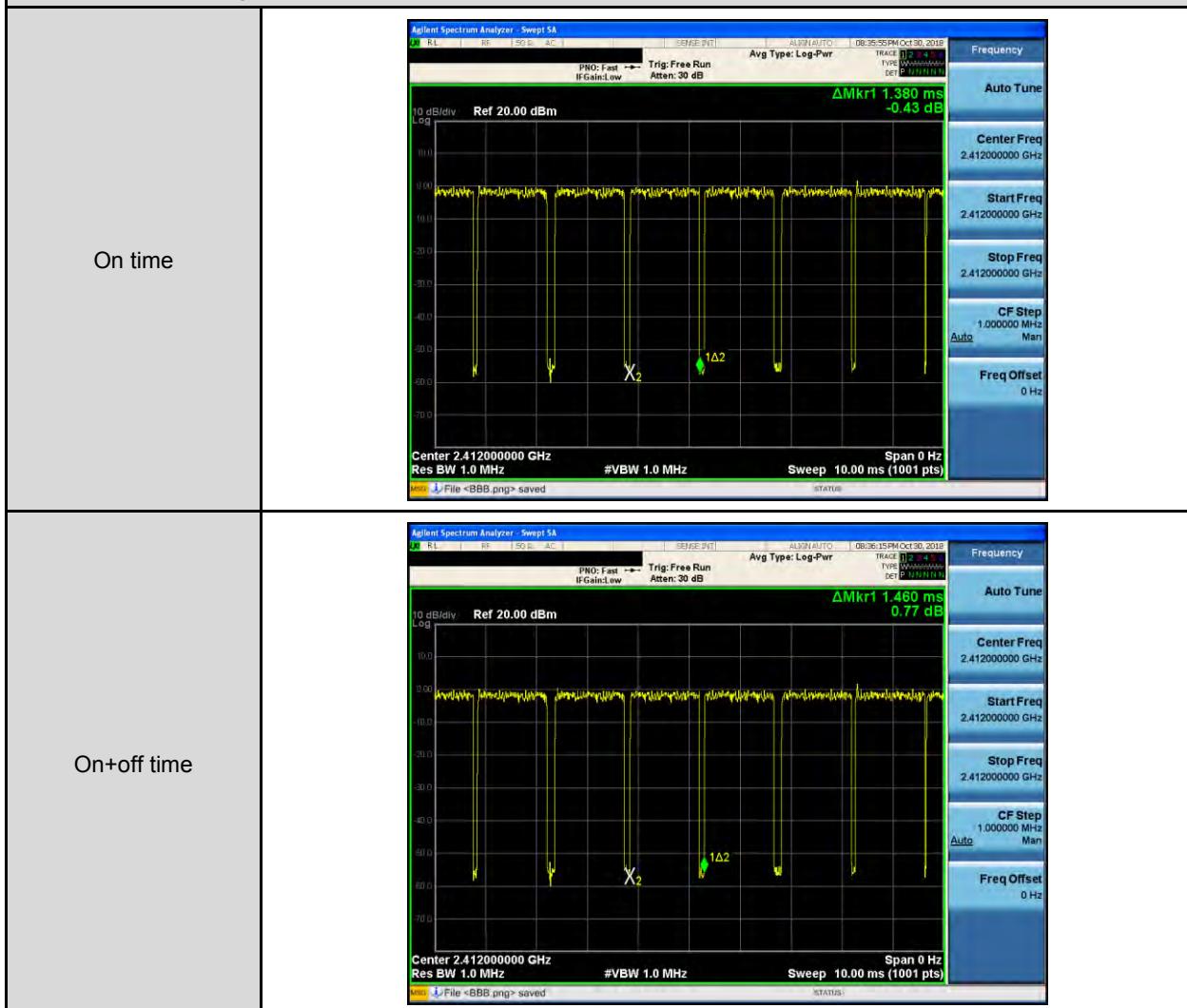
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2	2412.0	8.220	8.310	0.989	0.047	0.010
Mode 3	2412.0	1.380	1.460	0.945	0.245	0.725
Mode 4	2412.0	0.690	0.790	0.873	0.588	1.449
Mode 5	2422.0	0.360	0.510	0.706	1.513	2.778

Duty Cycle Graphs

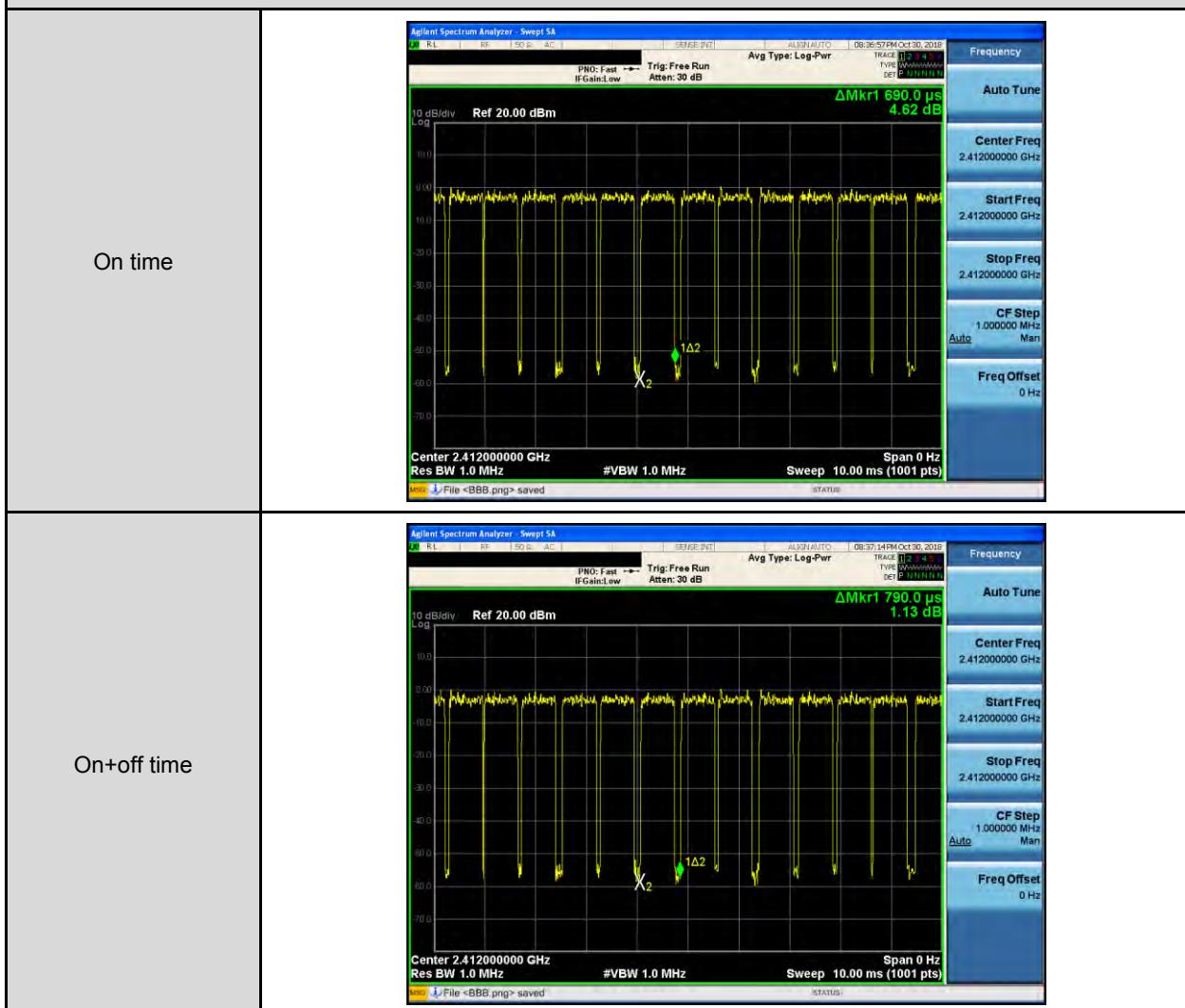
Mode 2: IEEE 802.11b Continuous TX mode



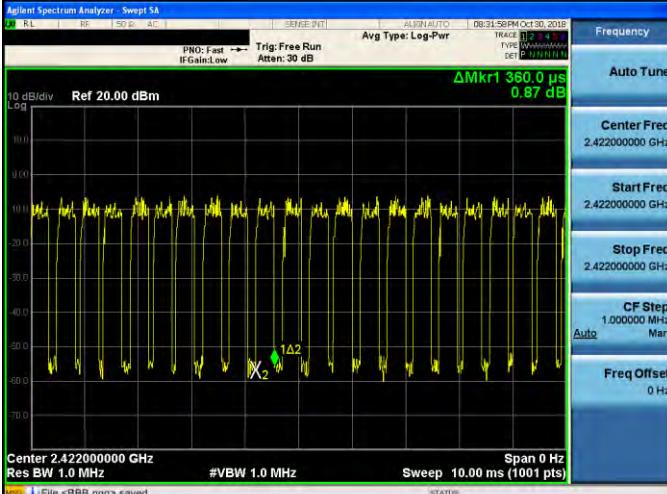
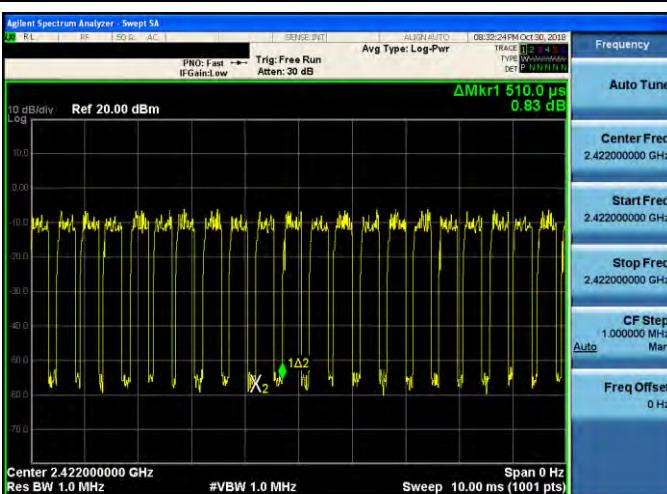
Mode 3: IEEE 802.11g Continuous TX mode



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

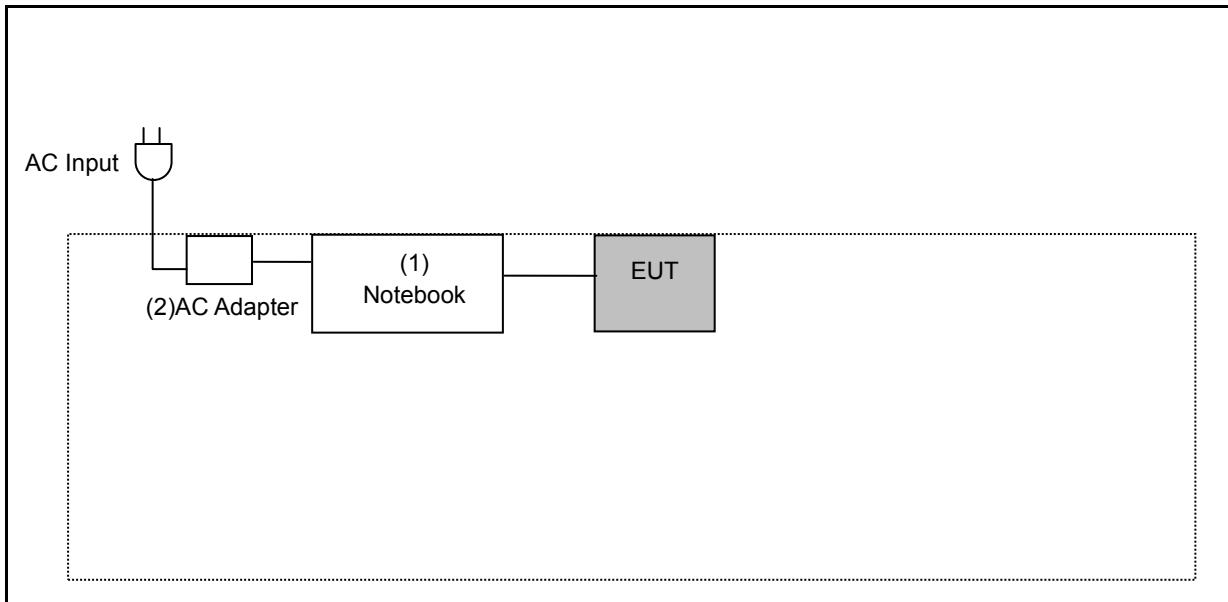
1.	Setup the EUT shown on “Configuration of Test System Details”.
2.	Turn on the power of all equipment.
3.	Turn Wi-Fi function link to Notebook.
4.	EUT run test program.

Measurement Software

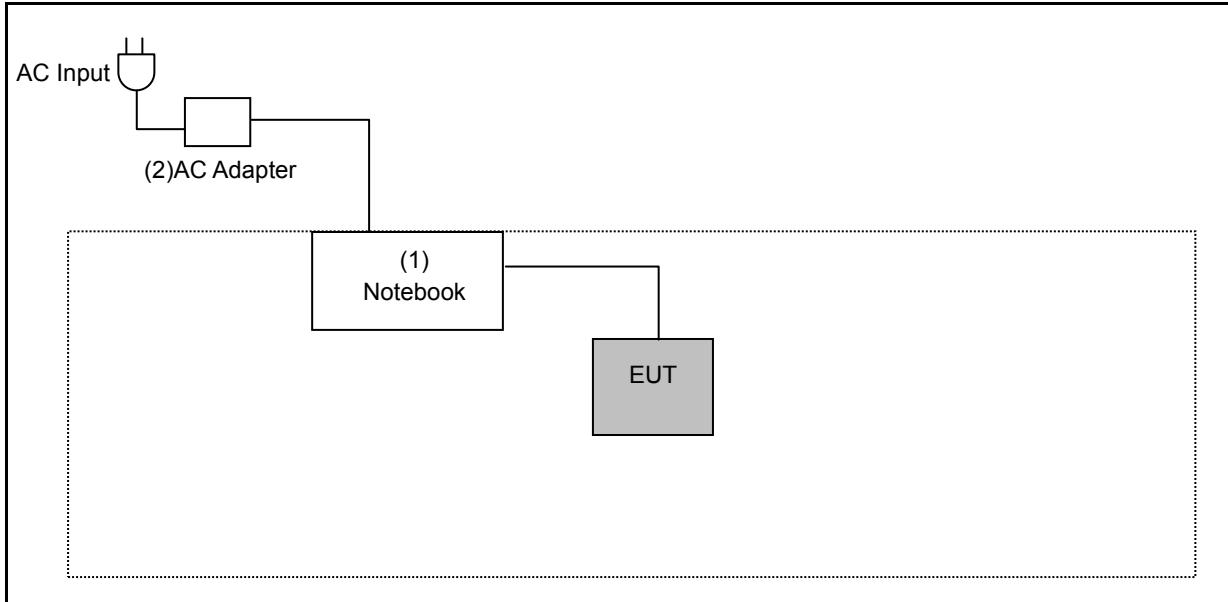
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

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 E6440	5HZBD72	---
(2)	AC Adapter	DELL	HA65NM130	---	Non-Shielded, 1.7 m

3.4. Test Instruments

For Conducted Emission

Test Period: Nov. 01, 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

For Radiated Emissions

Test Period: Oct. 22 ~ Oct. 24, 2018

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (10Hz~44GHz)	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
Broadband Antenna	Schwarzbeck	VULB9168	416	10/26/2017	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	EMC104-SM-SM-13000	170814	10/31/2017	1 year
Microwave Cable	EMCI	EMC102-KM-KM-14000	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: Oct. 30 ~ Oct. 31, 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 (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	01/02/2018	1 year
Microwave Cable	EMCI	EMC102-SM-SM1500	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

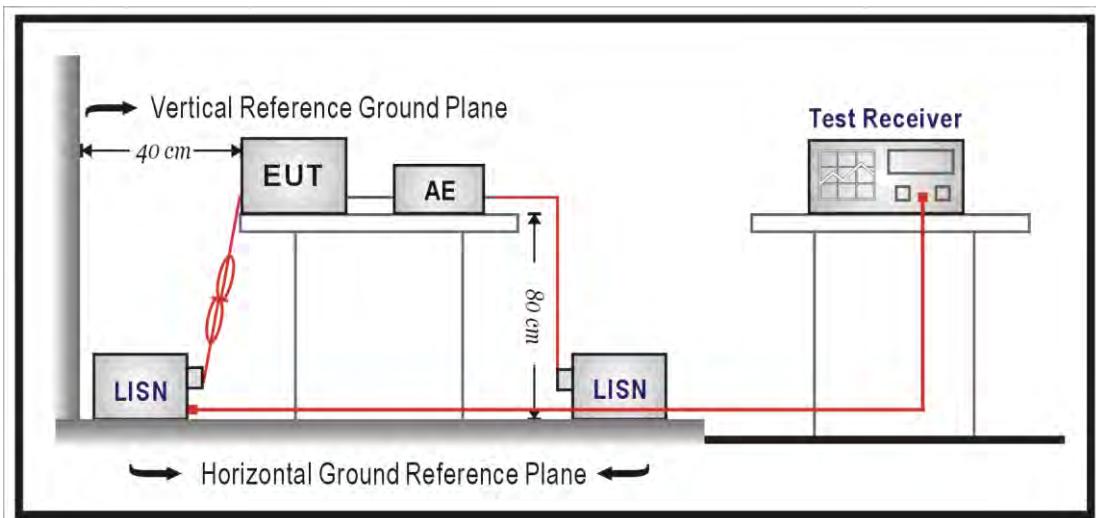
4 Measurement Procedure

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 50Ω // $50 \mu\text{H}$ coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50Ω // $50 \mu\text{H}$ coupling impedance with 50 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 50Ω ports of the LISN shall be resistively terminated into 50Ω 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

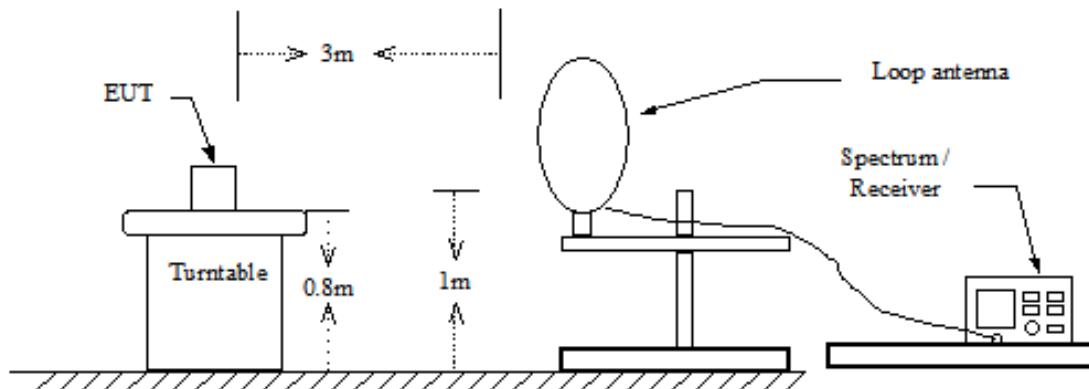
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μ 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

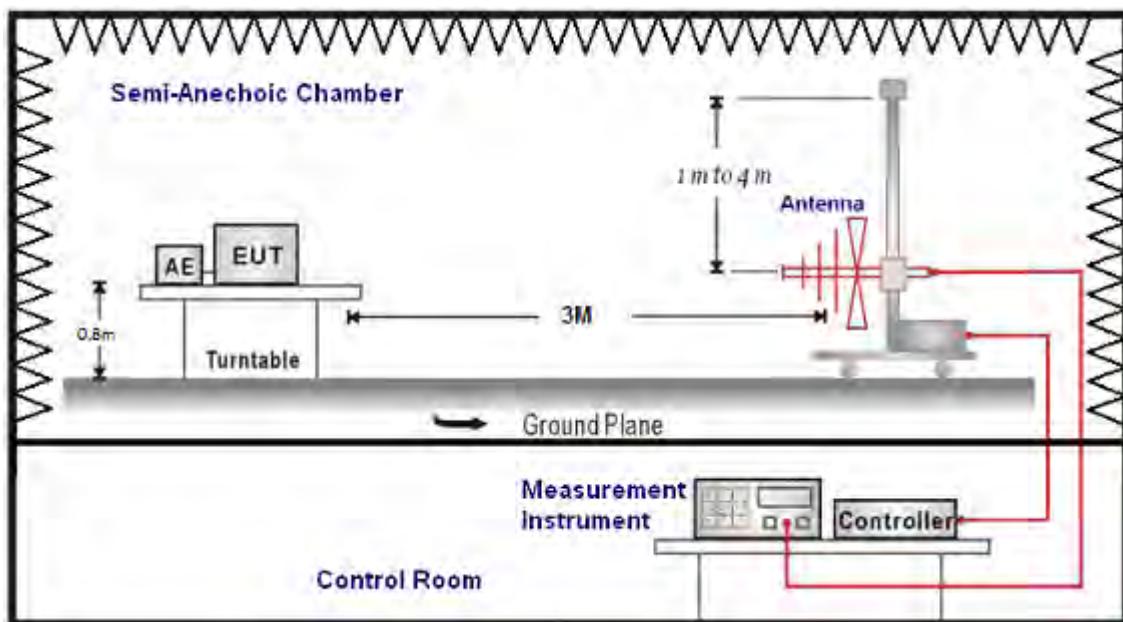
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

■ Setup

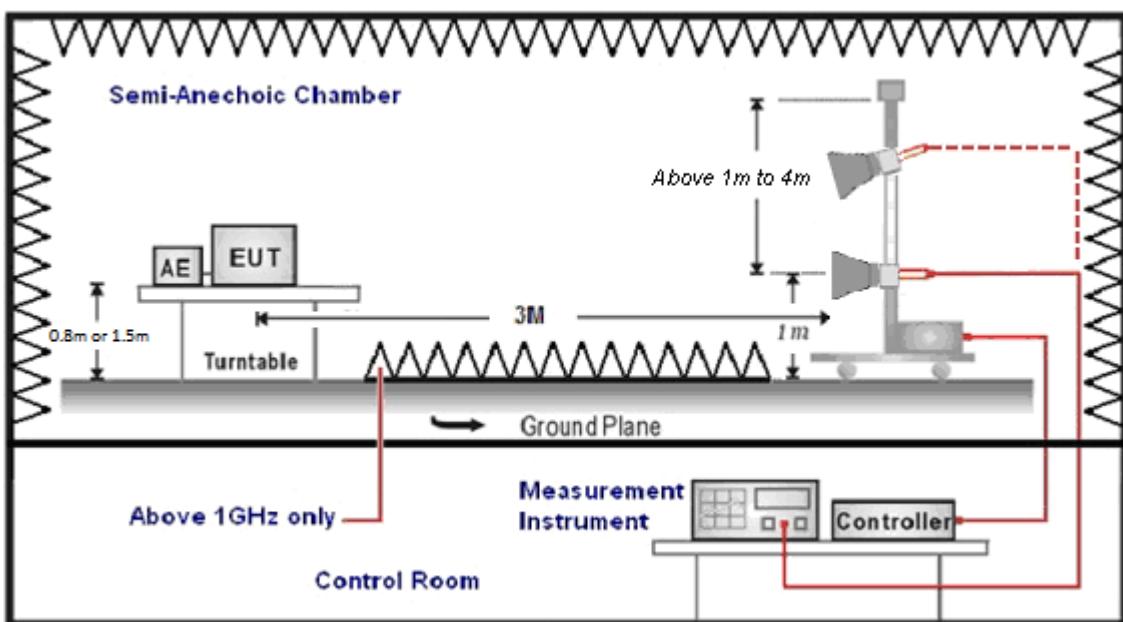
9 kHz ~ 30 MHz



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_{uV}) 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_{uV/m}).

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.

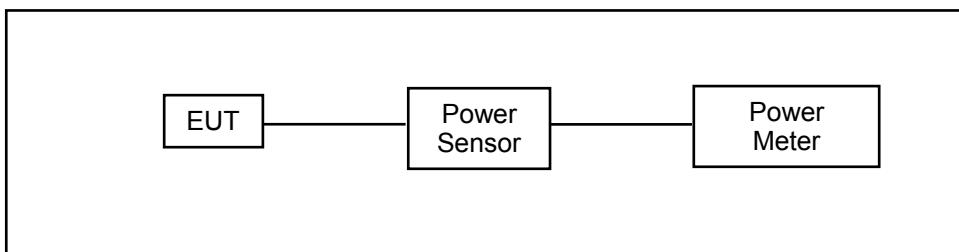
IEEE 802.11b / IEEE 802.11g

* Directional Gain = Max. Gain = 2.41 dBi < 6 dBi.

IEEE 802.11n 2.4 GHz 20 MHz / 40 MHz

* Directional Gain = $G_{ANT} = 10 \cdot \log([10^{(G1/10)} + 10^{(G2/10)} + \dots + 10^{(Gn/10)}]/N_{ANT}) = 2.58 \text{ dBi} < 6 \text{ dBi}$

■ Test Setup



■ Test Procedure

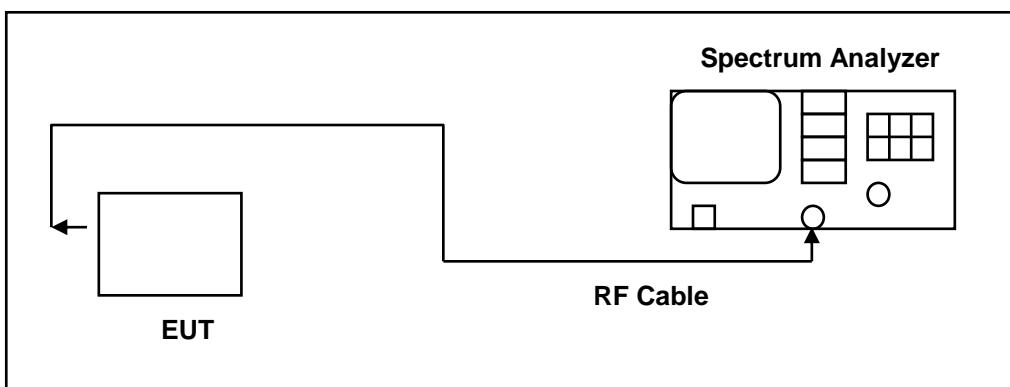
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor.

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.

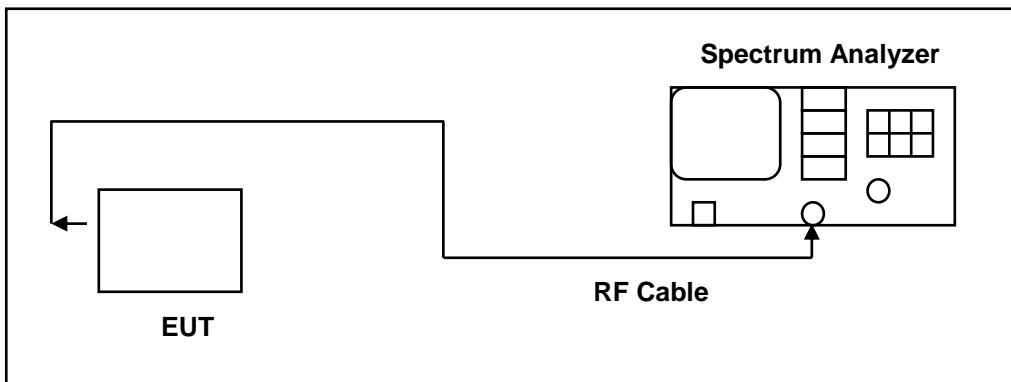
IEEE 802.11b / IEEE 802.11g

* Directional Gain = Max. Gain = 2.41 dBi < 6 dBi.

IEEE 802.11n 2.4 GHz 20 MHz / 40 MHz

* Directional Gain = $G_{ANT} = 10 \cdot \log \{ [10^{G1/10} + 10^{G2/10} + \dots + 10^{Gn/10}] / N_{ANT} \} = 2.58 \text{ dBi} < 6 \text{ dBi}$

■ Test Setup



■ Test Procedure

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

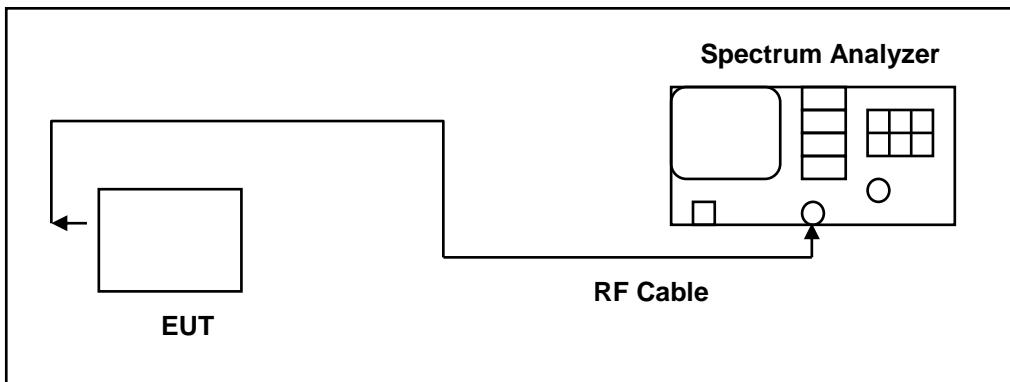
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
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 30 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 30 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.

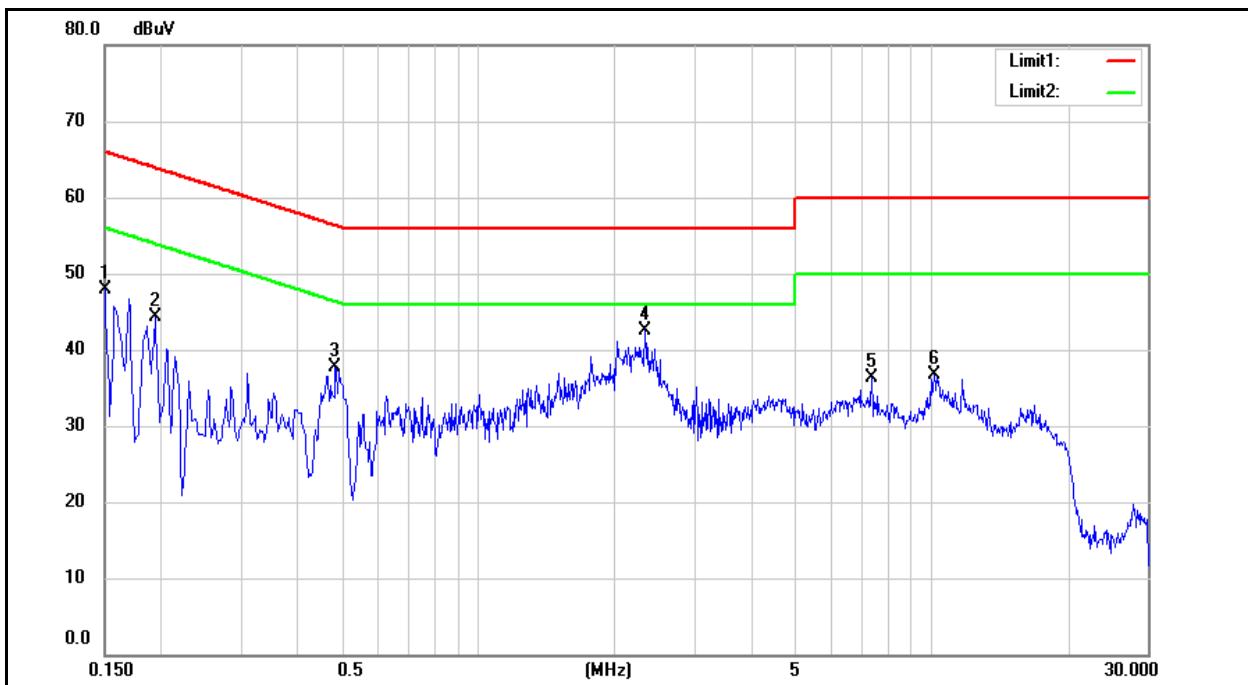
■ Directional Gain Calculated

Operate Freq. Band	Directional Gain (dBi)
IEEE 802.11b	2.41
IEEE 802.11g	2.41
IEEE 802.11n 2.4 GHz 20 MHz	2.58
IEEE 802.11n 2.4 GHz 40 MHz	2.58

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:			

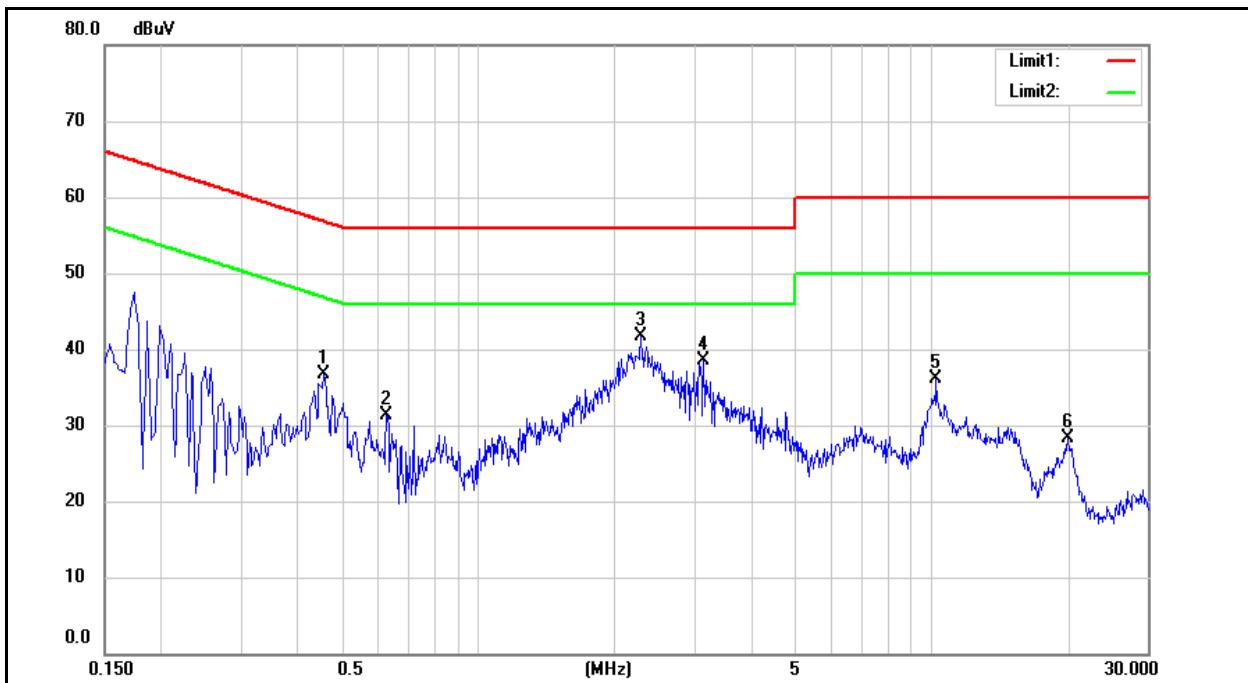


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	35.96	23.46	9.59	45.55	33.05	66.00	56.00	-20.45	-22.95	Pass
2	0.1940	29.95	17.39	9.60	39.55	26.99	63.86	53.86	-24.31	-26.87	Pass
3	0.4860	25.26	19.19	9.60	34.86	28.79	56.24	46.24	-21.38	-17.45	Pass
4	2.3420	27.64	22.13	9.68	37.32	31.81	56.00	46.00	-18.68	-14.19	Pass
5	7.3820	19.66	14.72	9.81	29.47	24.53	60.00	50.00	-30.53	-25.47	Pass
6	10.1780	20.75	15.46	9.86	30.61	25.32	60.00	50.00	-29.39	-24.68	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	0.4580	22.40	16.69	9.71	32.11	26.40	56.73	46.73	-24.62	-20.33	Pass
2	0.6300	17.67	12.57	9.72	27.39	22.29	56.00	46.00	-28.61	-23.71	Pass
3	2.2900	26.56	21.44	9.78	36.34	31.22	56.00	46.00	-19.66	-14.78	Pass
4	3.1540	22.02	13.57	9.80	31.82	23.37	56.00	46.00	-24.18	-22.63	Pass
5	10.2780	19.62	14.19	9.99	29.61	24.18	60.00	50.00	-30.39	-25.82	Pass
6	20.0060	13.46	8.46	10.20	23.66	18.66	60.00	50.00	-36.34	-31.34	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		
			Measurement Results		Limit
			dBm	W	dBm
Mode 2	2412	1 M	18.30	0.068	≤ 30
	2437		18.34	0.068	≤ 30
	2462		18.28	0.067	≤ 30
	2437	2 M	18.25	0.067	≤ 30
	2437	5.5 M	18.27	0.067	≤ 30
	2437	11 M	18.22	0.066	≤ 30
Mode 3	2412	6 M	15.65	0.037	≤ 30
	2437		17.37	0.055	≤ 30
	2462		17.28	0.053	≤ 30
	2437	9 M	17.25	0.053	≤ 30
	2437	12 M	17.24	0.053	≤ 30
	2437	18 M	17.20	0.052	≤ 30
	2437	24 M	17.23	0.053	≤ 30
	2437	36 M	17.27	0.053	≤ 30
	2437	48 M	17.26	0.053	≤ 30
	2437	54 M	17.28	0.053	≤ 30

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

ANT-0					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		
			Measurement Results		Limit
			dBm	W	dBm
Mode 4	2412	13 M	14.90	0.031	≤ 30
	2437		16.49	0.045	≤ 30
	2462		14.69	0.029	≤ 30
	2437	28.8 M	16.39	0.044	≤ 30
	2437	43.4 M	16.38	0.043	≤ 30
	2437	57.8 M	16.41	0.044	≤ 30
	2437	86.6 M	16.39	0.044	≤ 30
	2437	115.6 M	16.43	0.044	≤ 30
	2437	130 M	16.40	0.044	≤ 30
	2437	144.4 M	16.38	0.043	≤ 30
Mode 5	2422	27 M	14.92	0.031	≤ 30
	2437		17.01	0.050	≤ 30
	2452		14.34	0.027	≤ 30
	2437	60 M	16.89	0.049	≤ 30
	2437	90 M	16.88	0.049	≤ 30
	2437	120 M	16.90	0.049	≤ 30
	2437	180 M	16.92	0.049	≤ 30
	2437	240 M	16.92	0.049	≤ 30
	2437	270 M	16.89	0.049	≤ 30
	2437	300 M	16.93	0.049	≤ 30

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

ANT-1					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		
			Measurement Results		Limit
			dBm	W	dBm
Mode 2	2412	1 M	18.13	0.065	≤ 30
	2437		18.11	0.065	≤ 30
	2462		18.20	0.066	≤ 30
	2437	2 M	18.08	0.064	≤ 30
	2437	5.5 M	18.10	0.065	≤ 30
	2437	11 M	18.04	0.064	≤ 30
Mode 3	2412	6 M	15.57	0.036	≤ 30
	2437		17.23	0.053	≤ 30
	2462		17.19	0.052	≤ 30
	2437	9 M	17.18	0.052	≤ 30
	2437	12 M	17.16	0.052	≤ 30
	2437	18 M	17.10	0.051	≤ 30
	2437	24 M	17.10	0.051	≤ 30
	2437	36 M	17.13	0.052	≤ 30
	2437	48 M	17.15	0.052	≤ 30
	2437	54 M	17.20	0.052	≤ 30

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

ANT-1					
Test Mode	Frequency (MHz)	Data Rate	Average Output Power		
			Measurement Results		Limit
			dBm	W	dBm
Mode 4	2412	13 M	15.62	0.036	≤ 30
	2437		17.26	0.053	≤ 30
	2462		14.71	0.030	≤ 30
	2437	28.8 M	17.17	0.052	≤ 30
	2437	43.4 M	17.15	0.052	≤ 30
	2437	57.8 M	17.13	0.052	≤ 30
	2437	86.6 M	17.14	0.052	≤ 30
	2437	115.6 M	17.13	0.052	≤ 30
	2437	130 M	17.18	0.052	≤ 30
	2437	144.4 M	17.17	0.052	≤ 30
Mode 5	2422	27 M	16.10	0.041	≤ 30
	2437		17.16	0.052	≤ 30
	2452		14.15	0.026	≤ 30
	2437	60 M	17.02	0.050	≤ 30
	2437	90 M	17.05	0.051	≤ 30
	2437	120 M	17.09	0.051	≤ 30
	2437	180 M	17.05	0.051	≤ 30
	2437	240 M	17.06	0.051	≤ 30
	2437	270 M	17.02	0.050	≤ 30
	2437	300 M	17.03	0.050	≤ 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		
			Measurement Results		Limit
			dBm	W	dBm
Mode 4	2412	13 M	18.29	0.067	≤ 30
	2437		19.90	0.098	≤ 30
	2462		17.71	0.059	≤ 30
	2437	28.8 M	19.81	0.096	≤ 30
	2437	43.4 M	19.79	0.095	≤ 30
	2437	57.8 M	19.80	0.095	≤ 30
	2437	86.6 M	19.79	0.095	≤ 30
	2437	115.6 M	19.80	0.096	≤ 30
	2437	130 M	19.82	0.096	≤ 30
	2437	144.4 M	19.80	0.096	≤ 30
Mode 5	2422	27 M	18.56	0.072	≤ 30
	2437		20.10	0.102	≤ 30
	2452		17.26	0.053	≤ 30
	2437	60 M	19.97	0.099	≤ 30
	2437	90 M	19.98	0.099	≤ 30
	2437	120 M	20.01	0.100	≤ 30
	2437	180 M	20.00	0.100	≤ 30
	2437	240 M	20.00	0.100	≤ 30
	2437	270 M	19.97	0.099	≤ 30
	2437	300 M	19.99	0.100	≤ 30

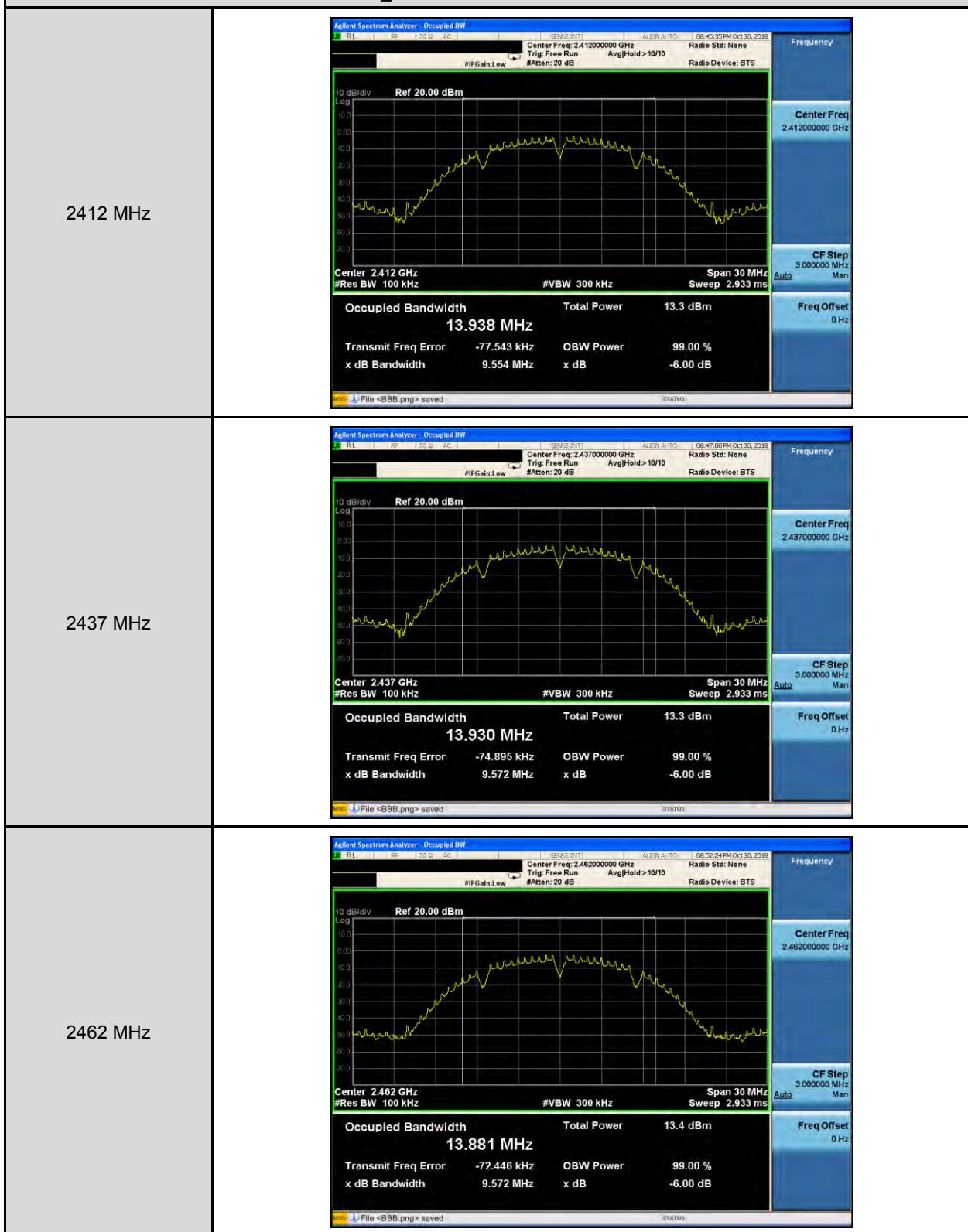
Note: The relevant measured result has the offset with cable loss already.

6 dB RF Bandwidth Measurement

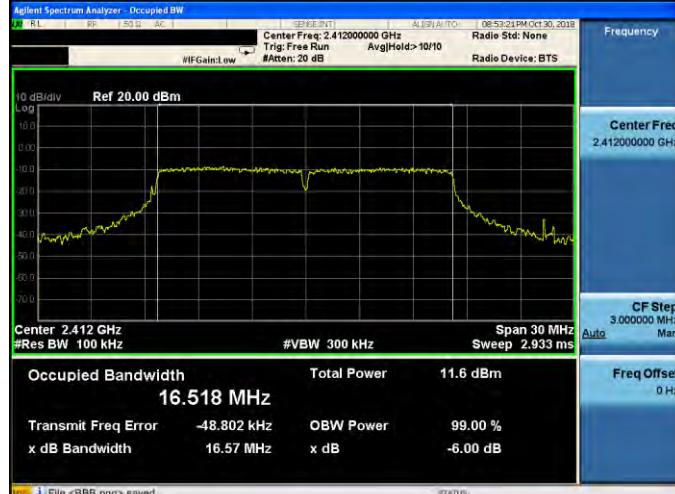
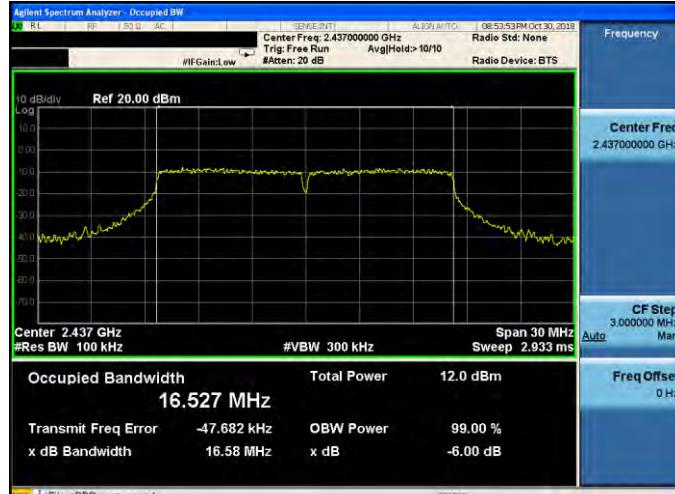
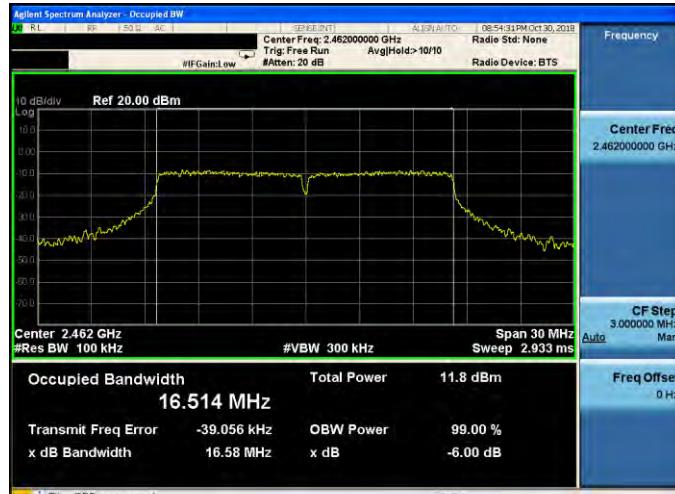
Test Mode	Frequency (MHz)	Measurement (kHz)		Limit (kHz)
		ANT-0	ANT-1	
Mode 2	2412	9554	---	≥ 500
	2437	9572	---	≥ 500
	2462	9572	---	≥ 500
Mode 3	2412	16570	---	≥ 500
	2437	16580	---	≥ 500
	2462	16580	---	≥ 500
Mode 4	2412	17770	17710	≥ 500
	2437	17760	17700	≥ 500
	2462	17800	17700	≥ 500
Mode 5	2422	36500	36440	≥ 500
	2437	36510	36420	≥ 500
	2452	36490	36460	≥ 500

■ Test Graphs

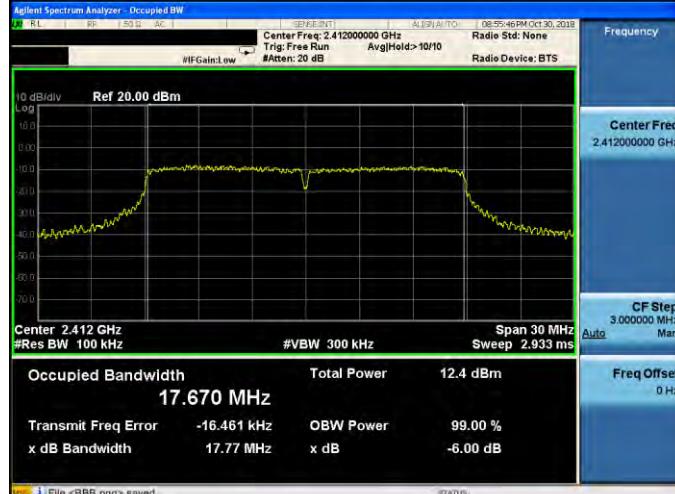
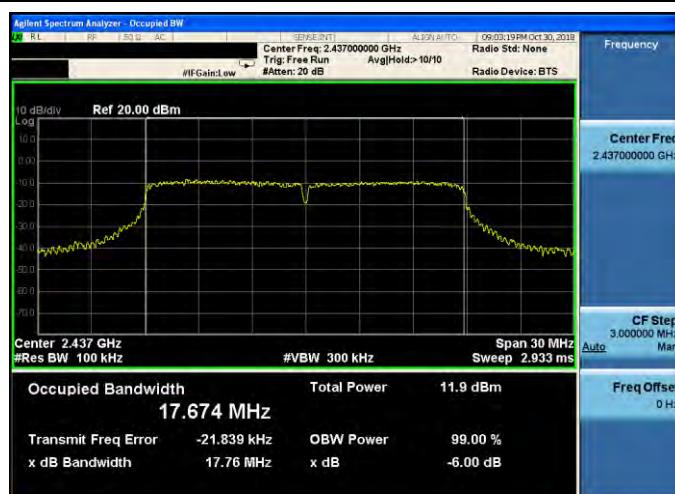
Mode 2: IEEE 802.11b Continuous TX mode_ANT-0



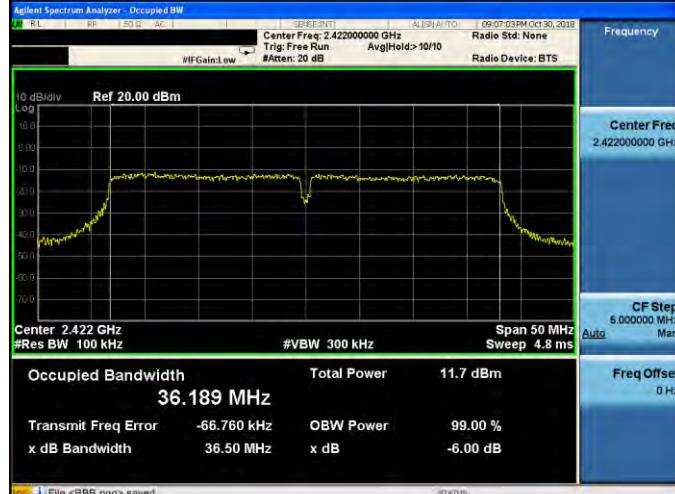
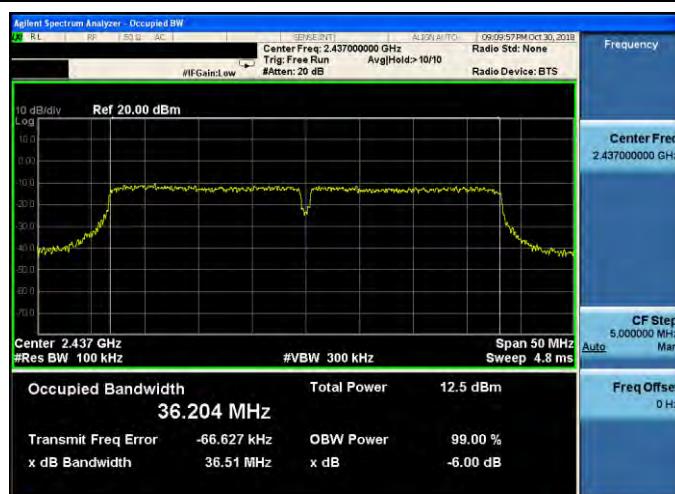
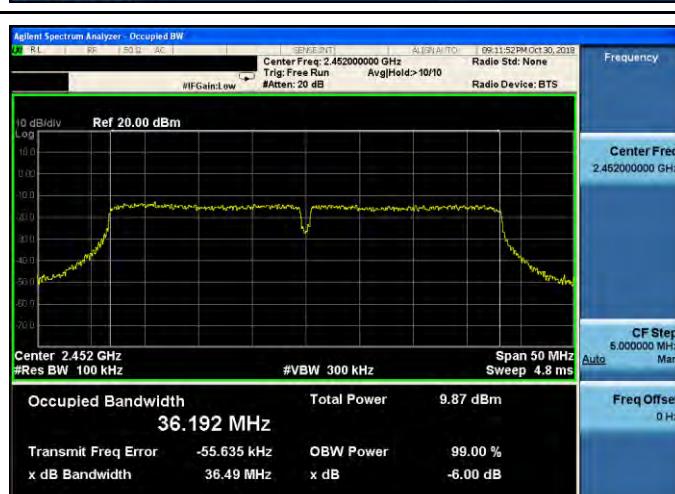
Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

2412 MHz	 <p>Occupied Bandwidth 16.518 MHz Total Power 11.6 dBm Transmit Freq Error -48.802 kHz x dB Bandwidth 16.57 MHz OBW Power 99.00 % x dB -6.00 dB</p>
2437 MHz	 <p>Occupied Bandwidth 16.527 MHz Total Power 12.0 dBm Transmit Freq Error -47.682 kHz x dB Bandwidth 16.58 MHz OBW Power 99.00 % x dB -6.00 dB</p>
2462 MHz	 <p>Occupied Bandwidth 16.514 MHz Total Power 11.8 dBm Transmit Freq Error -39.056 kHz x dB Bandwidth 16.58 MHz OBW Power 99.00 % x dB -6.00 dB</p>

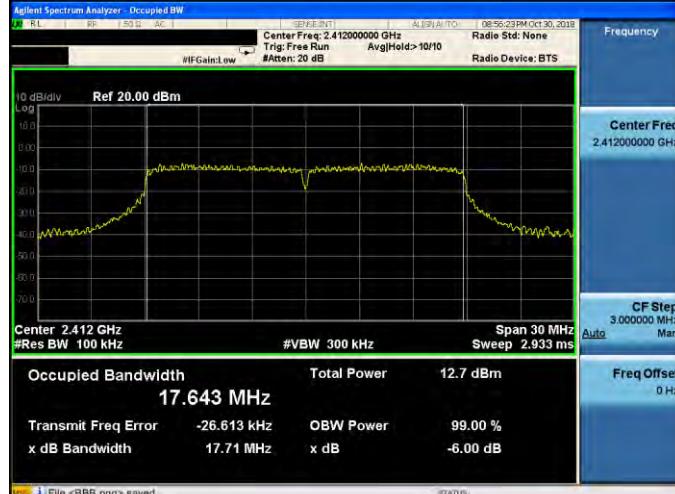
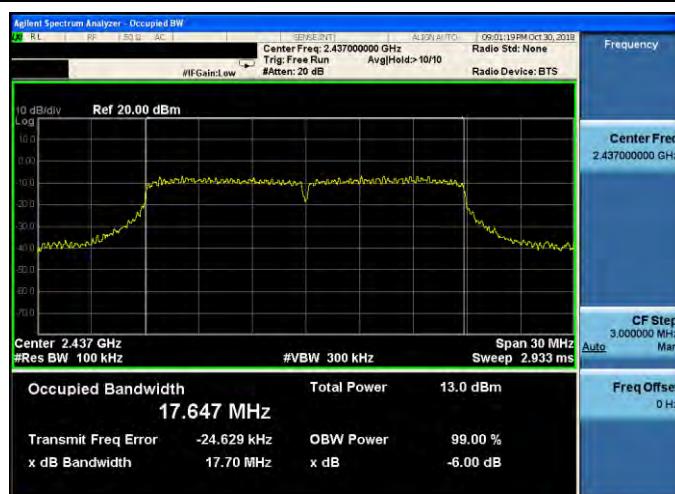
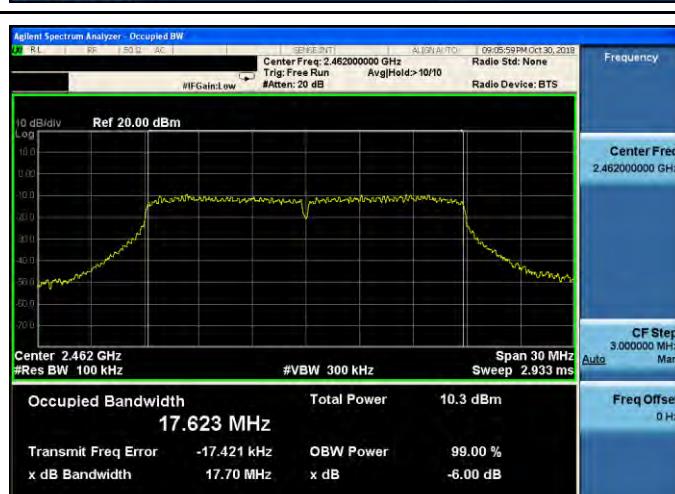
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0

2412 MHz	 <p>Occupied Bandwidth 17.670 MHz Total Power 12.4 dBm Transmit Freq Error -16.461 kHz x dB Bandwidth 17.77 MHz OBW Power 99.00 % x dB -6.00 dB</p>
2437 MHz	 <p>Occupied Bandwidth 17.674 MHz Total Power 11.9 dBm Transmit Freq Error -21.839 kHz x dB Bandwidth 17.76 MHz OBW Power 99.00 % x dB -6.00 dB</p>
2462 MHz	 <p>Occupied Bandwidth 17.653 MHz Total Power 9.92 dBm Transmit Freq Error -14.838 kHz x dB Bandwidth 17.80 MHz OBW Power 99.00 % x dB -6.00 dB</p>

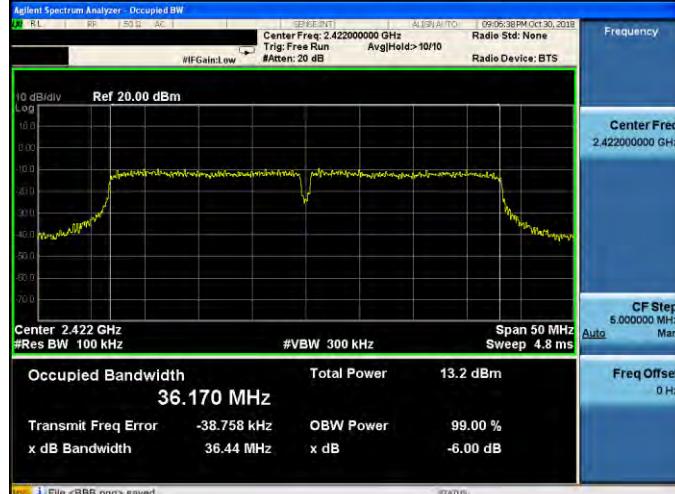
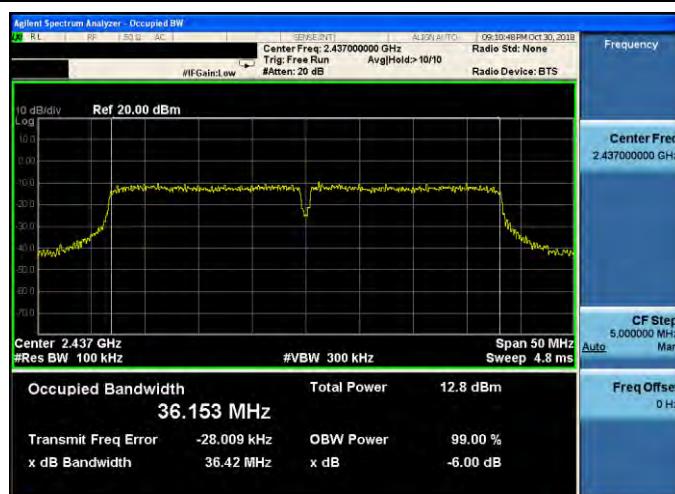
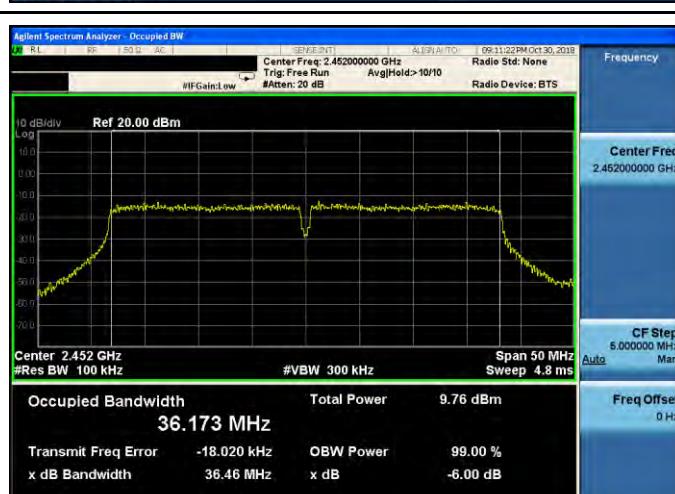
Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0

2422 MHz	 <p>Occupied Bandwidth 36.189 MHz Total Power 11.7 dBm Transmit Freq Error -66.760 kHz x dB Bandwidth 36.50 MHz OBW Power 99.00 % x dB -6.00 dB</p>
2437 MHz	 <p>Occupied Bandwidth 36.204 MHz Total Power 12.5 dBm Transmit Freq Error -66.627 kHz x dB Bandwidth 36.51 MHz OBW Power 99.00 % x dB -6.00 dB</p>
2452 MHz	 <p>Occupied Bandwidth 36.192 MHz Total Power 9.87 dBm Transmit Freq Error -55.635 kHz x dB Bandwidth 36.49 MHz OBW Power 99.00 % x dB -6.00 dB</p>

Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

2412 MHz	 <p>Occupied Bandwidth 17.643 MHz</p> <p>Total Power 12.7 dBm</p> <p>Transmit Freq Error -26.613 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.71 MHz</p> <p>x dB -6.00 dB</p>
2437 MHz	 <p>Occupied Bandwidth 17.647 MHz</p> <p>Total Power 13.0 dBm</p> <p>Transmit Freq Error -24.629 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.70 MHz</p> <p>x dB -6.00 dB</p>
2462 MHz	 <p>Occupied Bandwidth 17.623 MHz</p> <p>Total Power 10.3 dBm</p> <p>Transmit Freq Error -17.421 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.70 MHz</p> <p>x dB -6.00 dB</p>

Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1

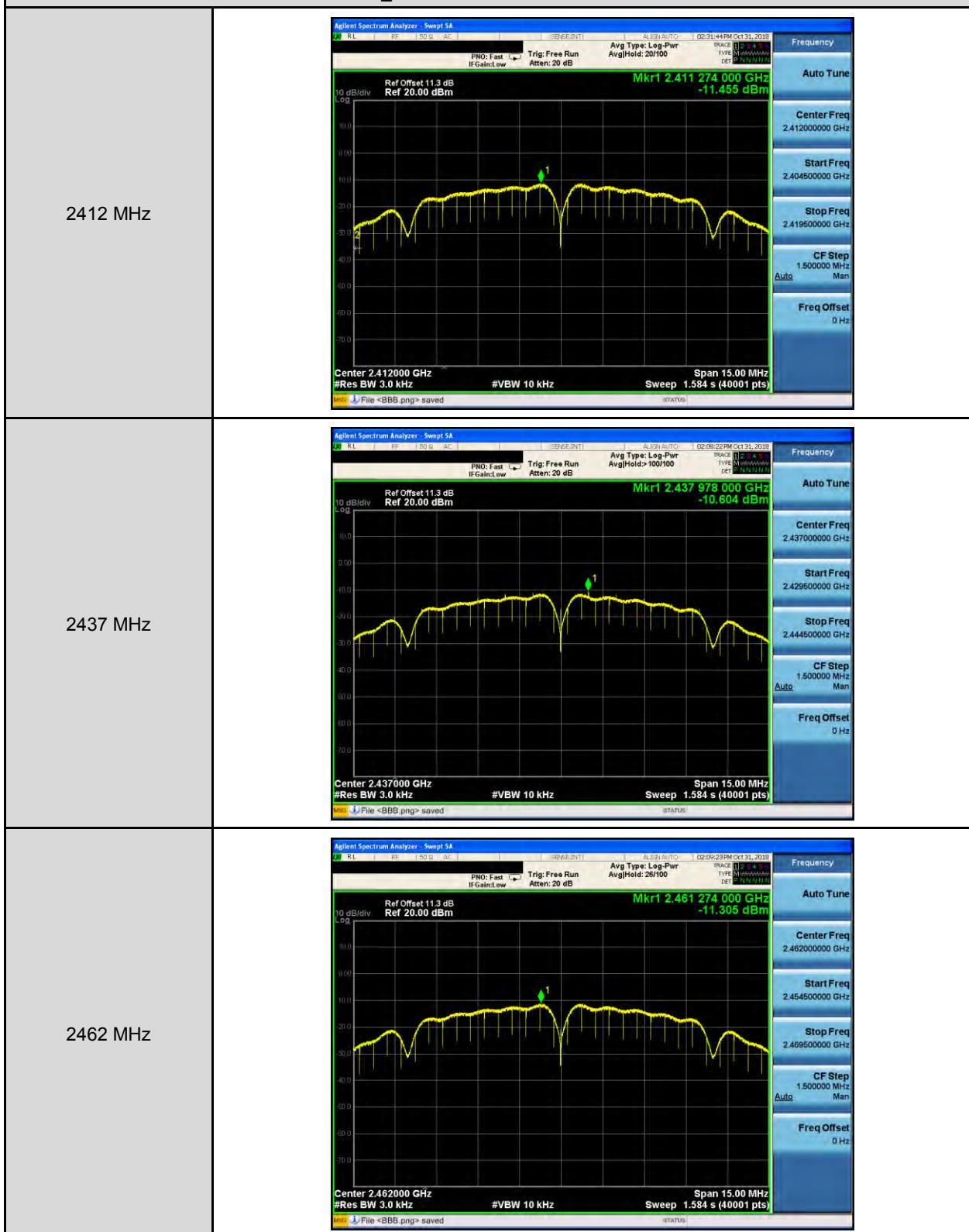
2422 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.422000000 GHz Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Frequency: 2.422000000 GHz</p> <p>CF Step: 5.000000 MHz Auto: Man</p> <p>Freq Offset: 0 Hz</p> <p>10 dB/div Log</p> <p>Ref 20.00 dBm</p> <p>Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 50 MHz Sweep 4.8 ms</p> <p>Occupied Bandwidth: 36.170 MHz Total Power: 13.2 dBm</p> <p>Transmit Freq Error: -38.758 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 36.44 MHz x dB: -6.00 dB</p> <p>File <BBB.png> saved</p>
2437 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.437000000 GHz Trig: Free Run Avg Hold>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 Log</p> <p>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: 36.153 MHz Total Power: 12.8 dBm</p> <p>Transmit Freq Error: -28.009 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 36.42 MHz x dB: -6.00 dB</p> <p>File <BBB.png> saved</p>
2452 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.452000000 GHz Trig: Free Run Avg Hold>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 Log</p> <p>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: 36.173 MHz Total Power: 9.76 dBm</p> <p>Transmit Freq Error: -18.020 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 36.46 MHz x dB: -6.00 dB</p> <p>File <BBB.png> saved</p>

Maximum Power Density Measurement

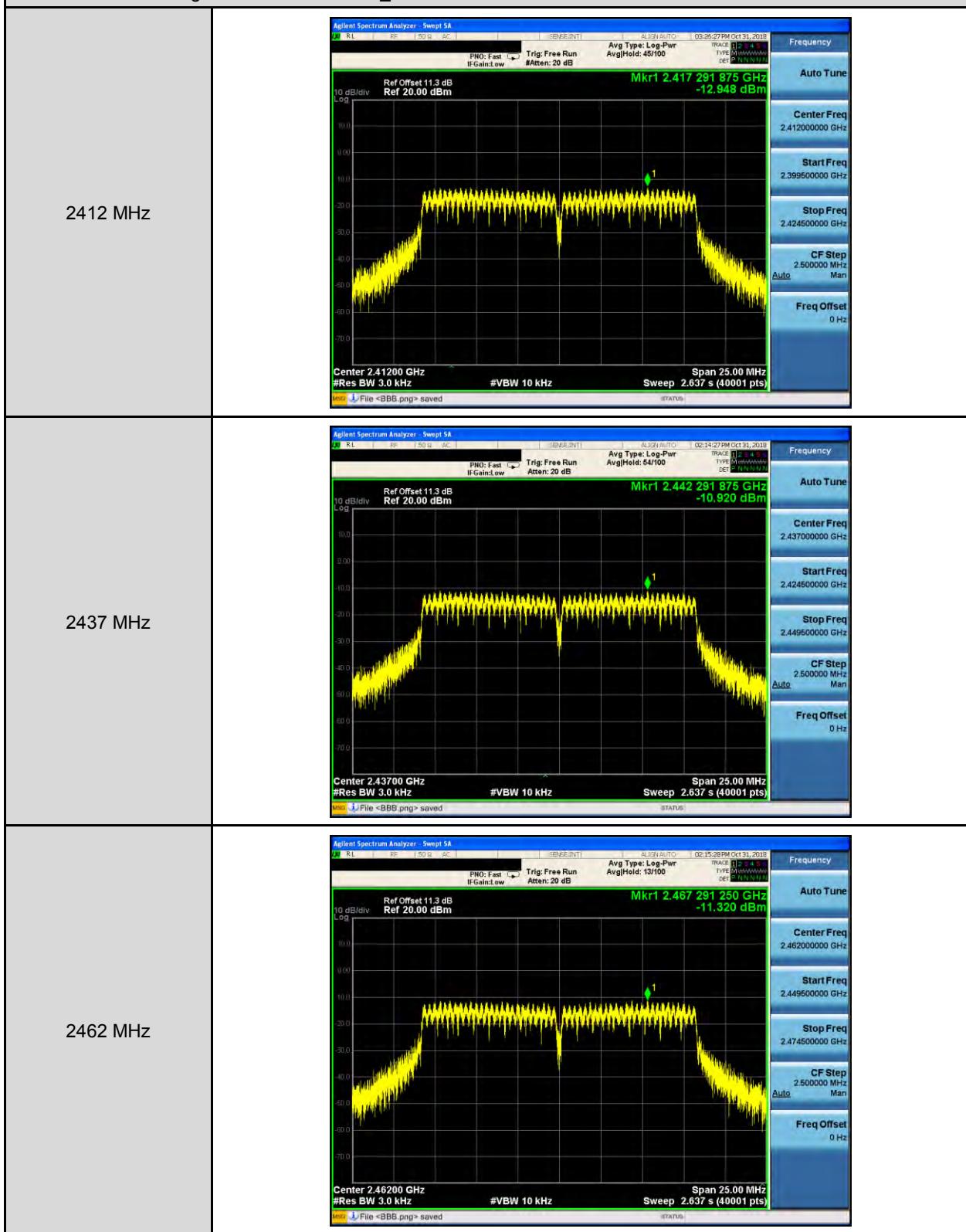
Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)			Limit (dBm/3 kHz)
		ANT-0	ANT-1	ANT-0+1	
Mode 2	2412	-11.455	---	---	≤ 8
	2437	-10.604	---	---	≤ 8
	2462	-11.305	---	---	≤ 8
Mode 3	2412	-12.948	---	---	≤ 8
	2437	-10.920	---	---	≤ 8
	2462	-11.320	---	---	≤ 8
Mode 4	2412	-11.521	-10.884	-8.181	≤ 8
	2437	-10.477	-9.665	-7.042	≤ 8
	2462	-12.549	-12.048	-9.281	≤ 8
Mode 5	2422	-14.124	-14.403	-11.251	≤ 8
	2437	-12.589	-13.642	-10.073	≤ 8
	2452	-14.799	-16.866	-12.700	≤ 8

■ Test Graphs

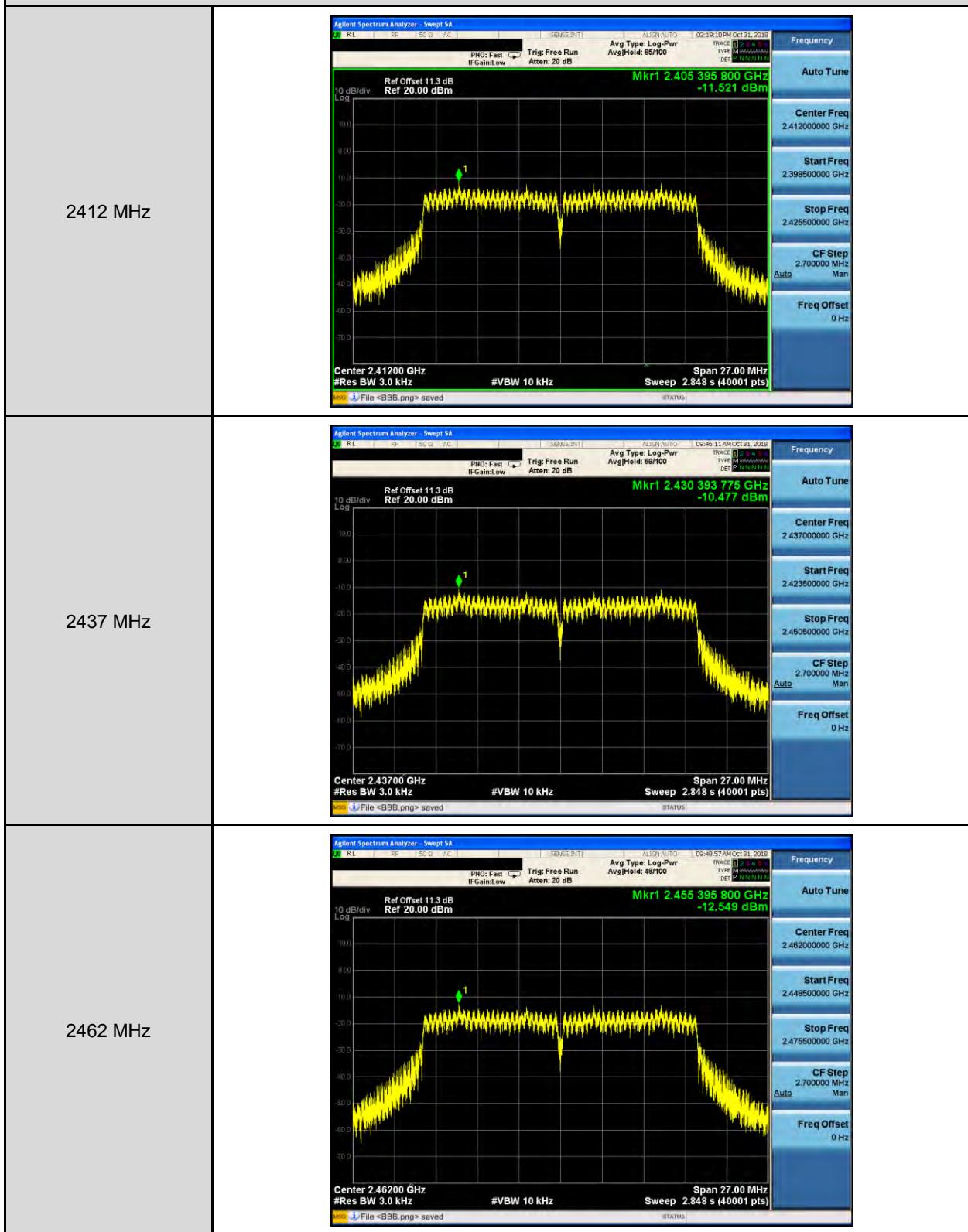
Mode 2: IEEE 802.11b Continuous TX mode_ANT-0



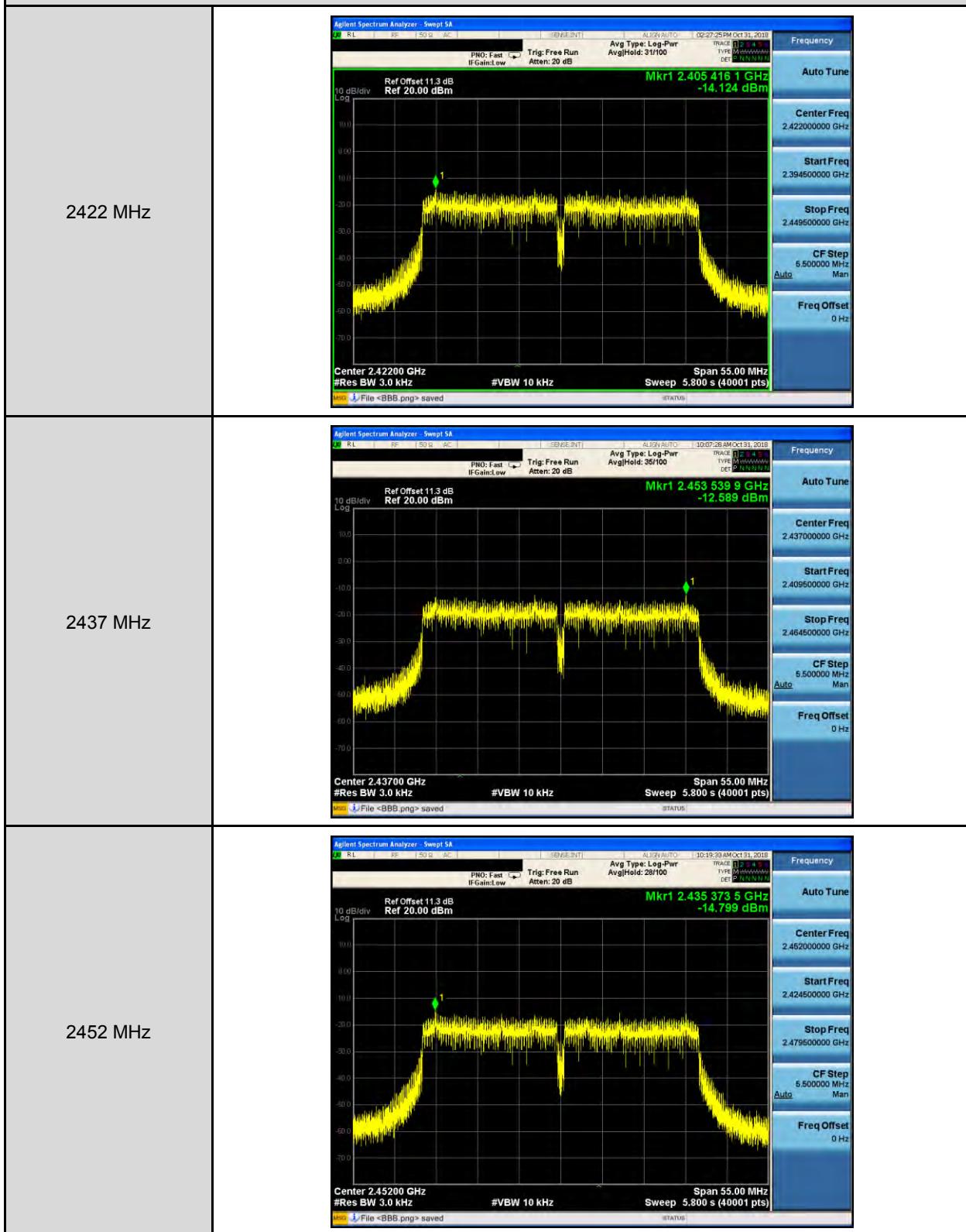
Mode 3: IEEE 802.11g Continuous TX mode_ANT-0



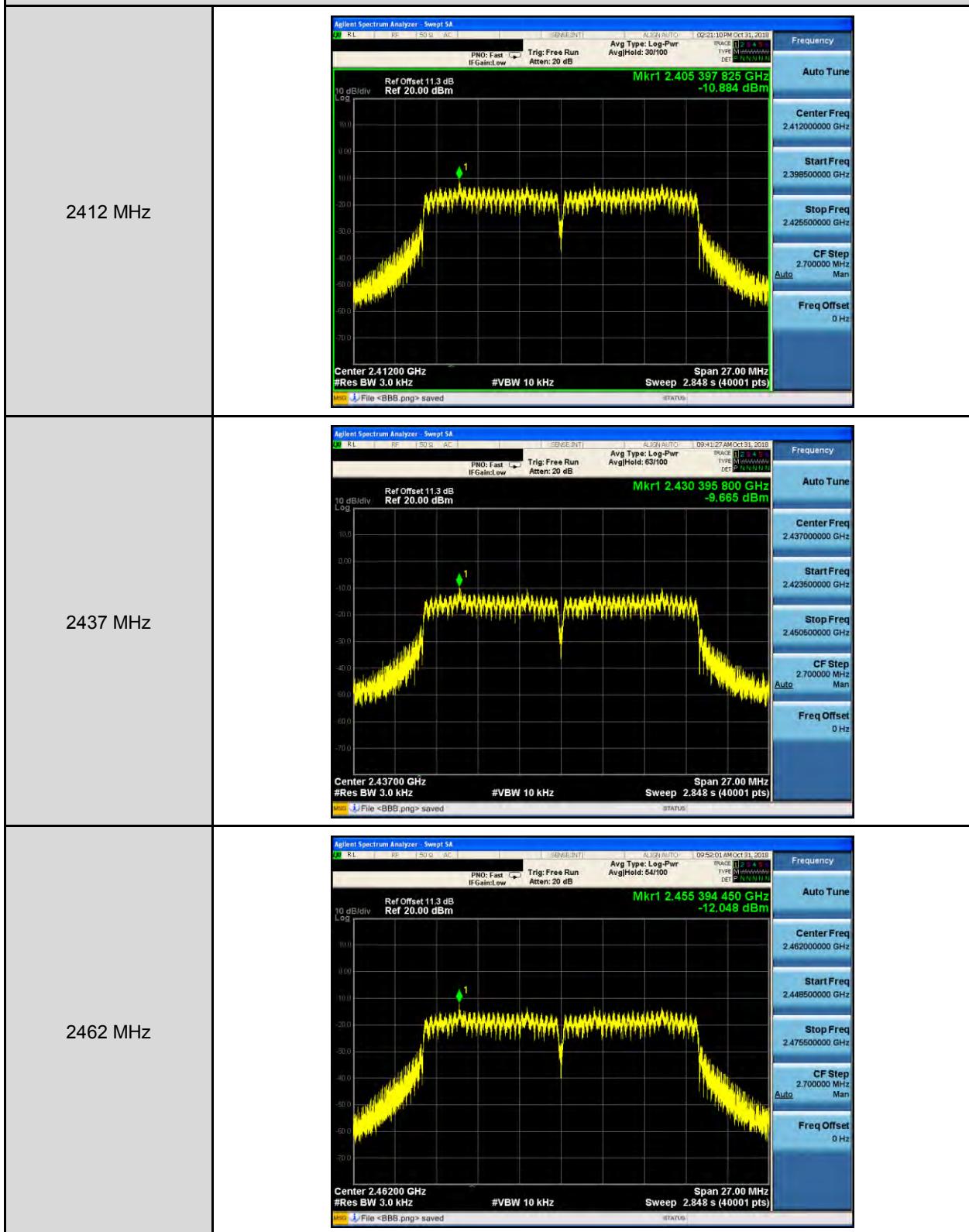
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0



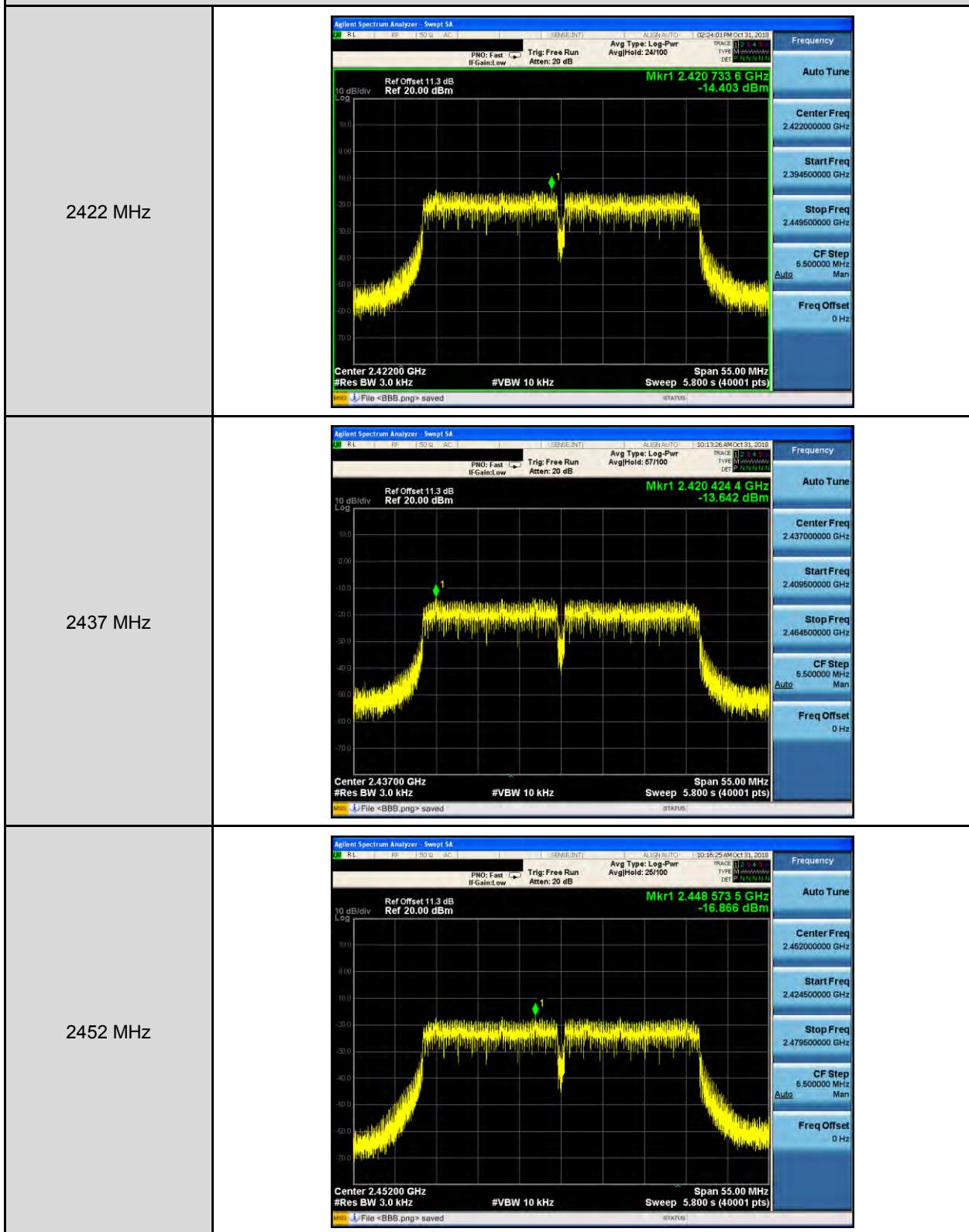
Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0



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

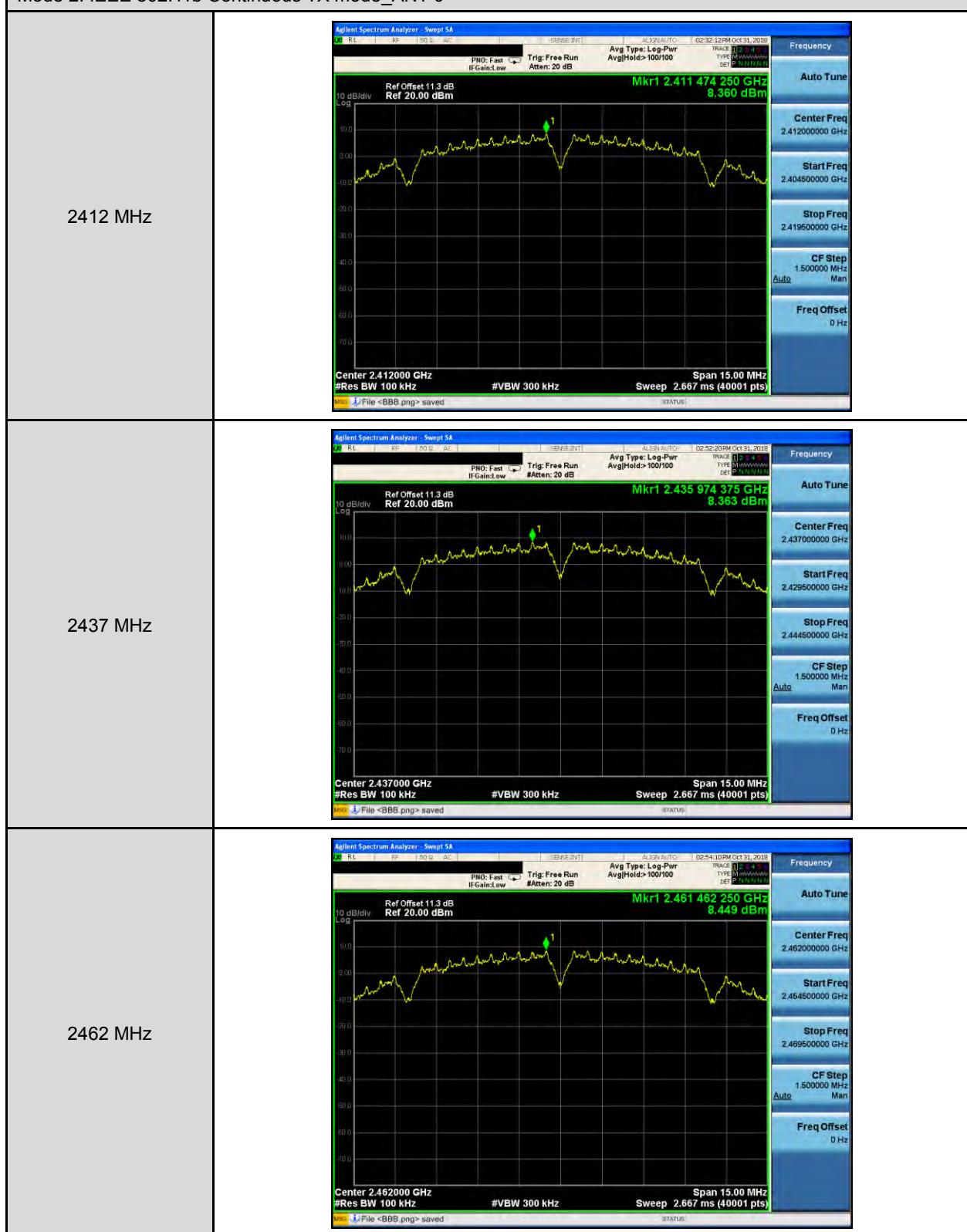


Out of Band Conducted Emissions Measurement

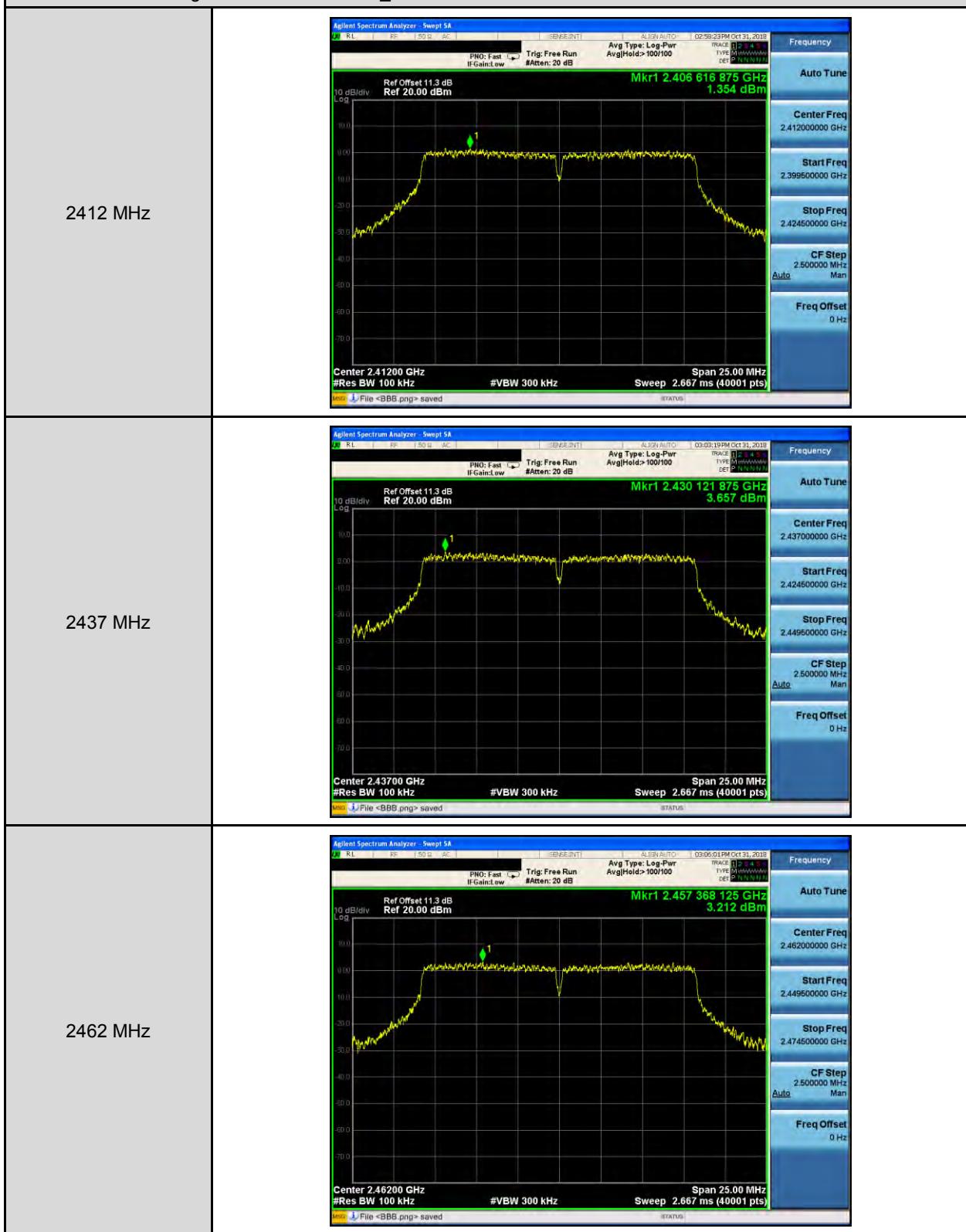
■ Test Graphs

Reference level

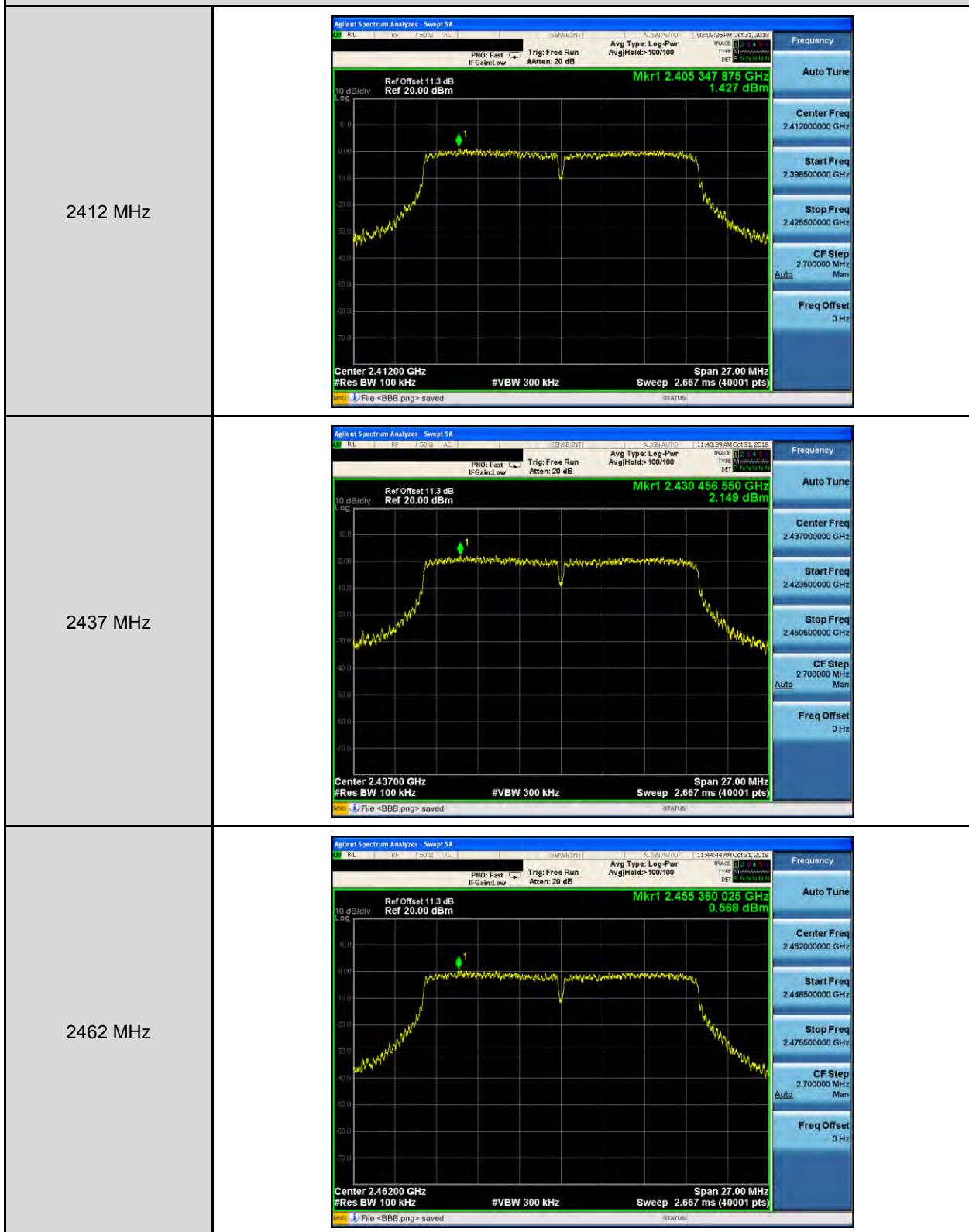
Mode 2: IEEE 802.11b Continuous TX mode_ANT-0



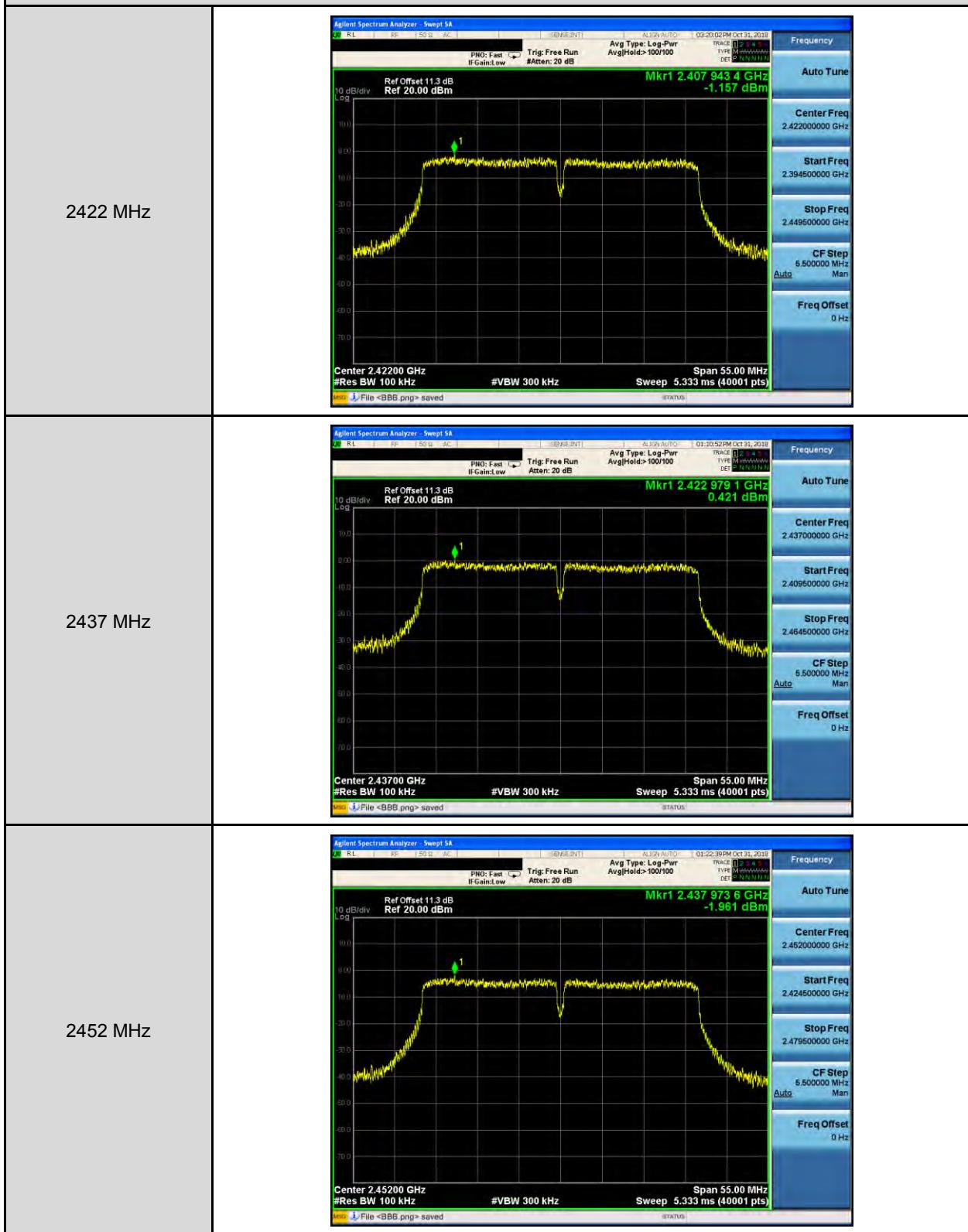
Mode 3: IEEE 802.11g Continuous TX mode_ANT-0



Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0



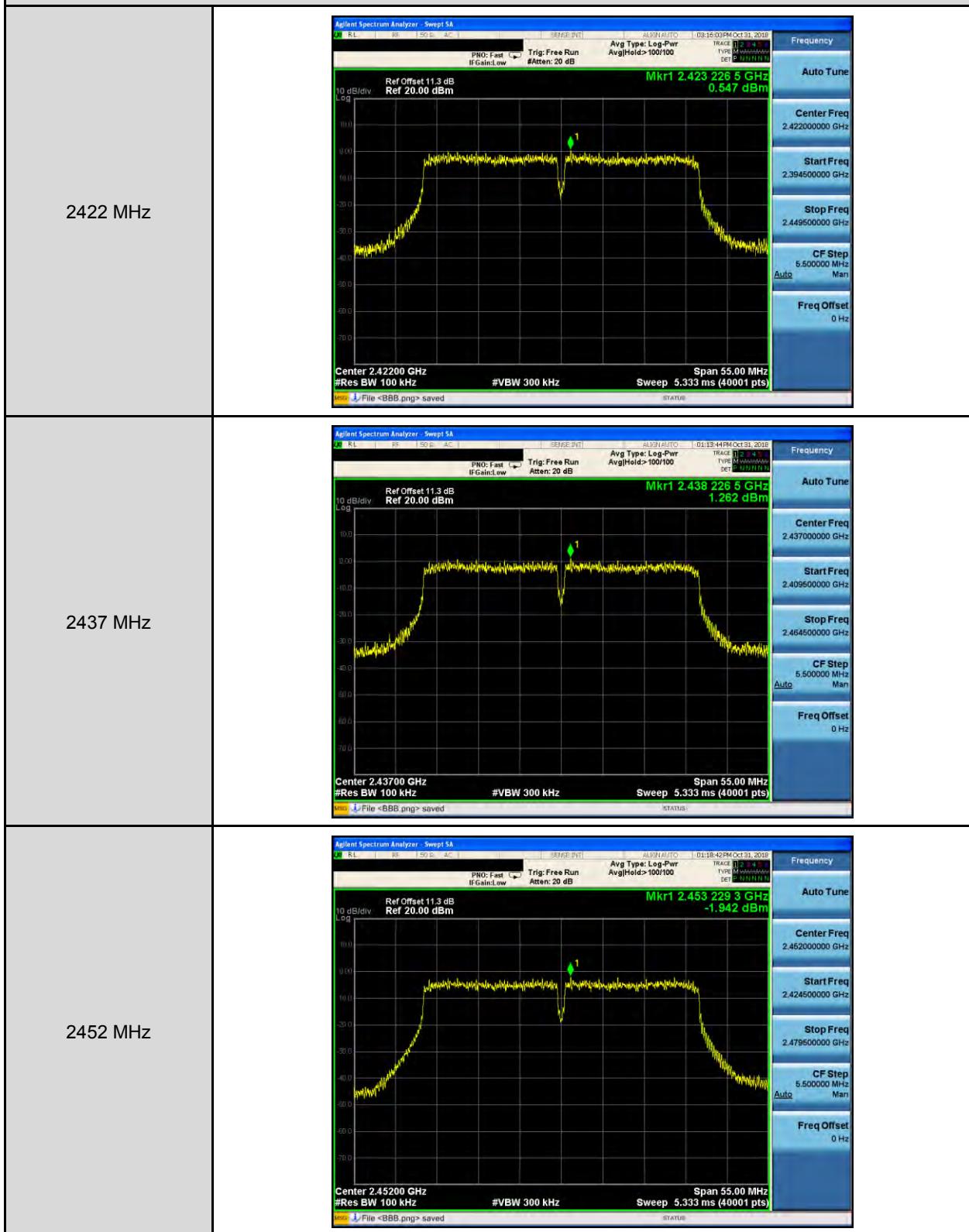
Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0



Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

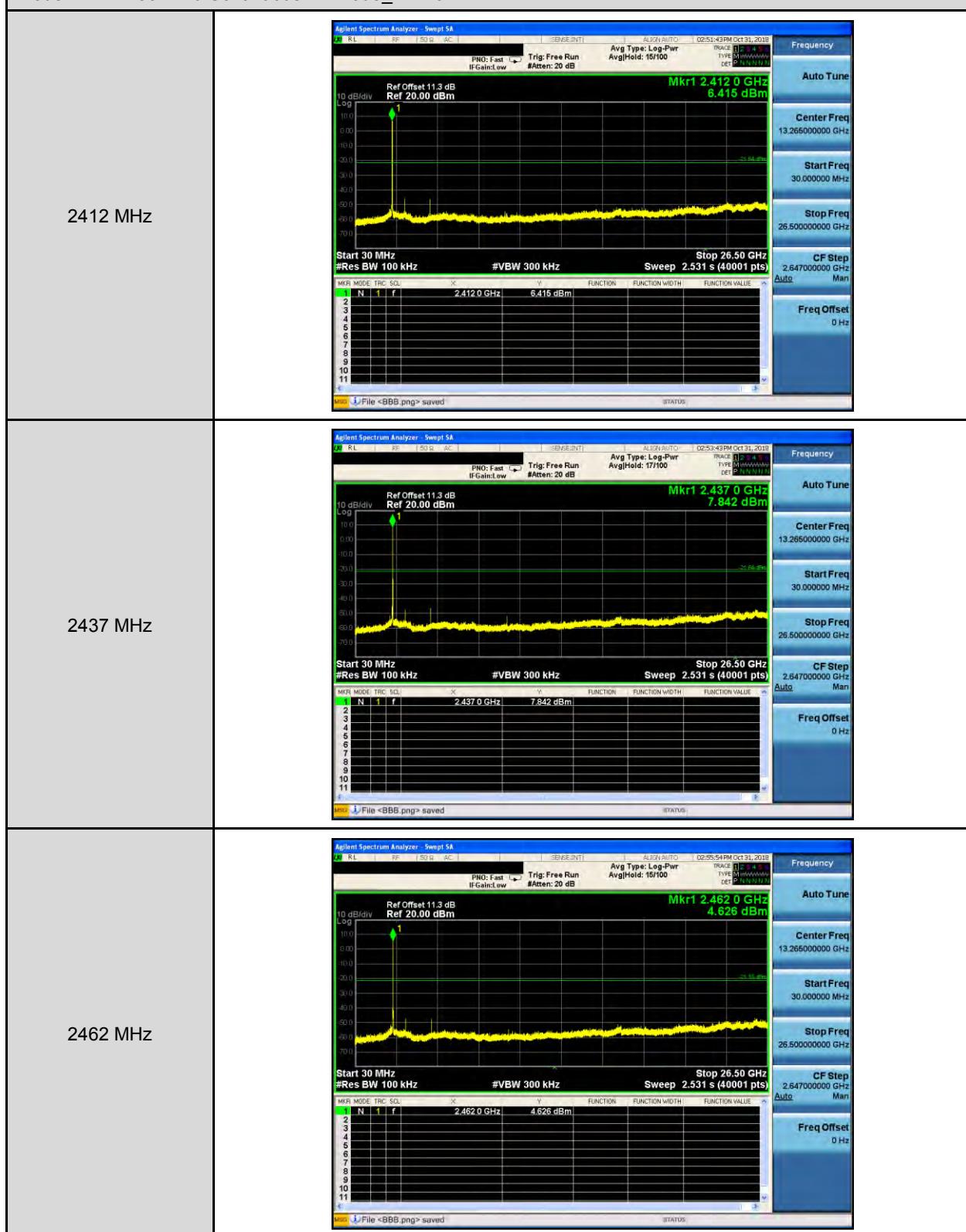


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1



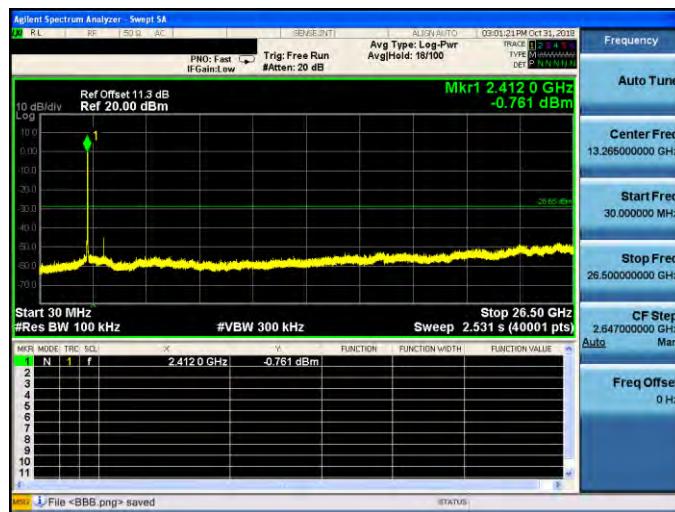
Out of Band Conducted Emissions

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

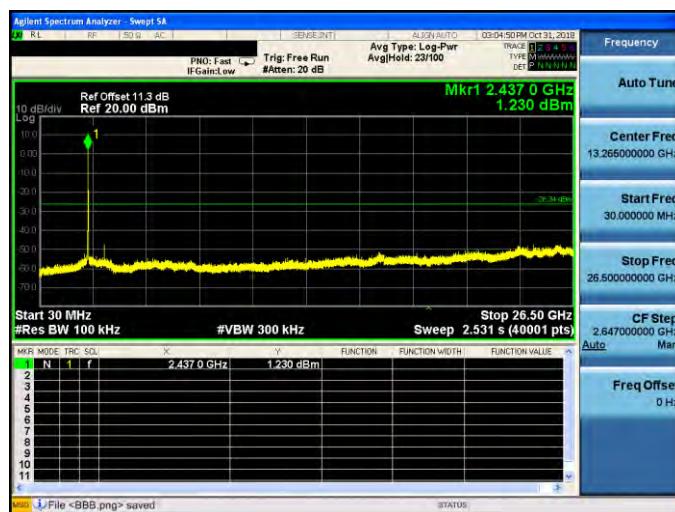


Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

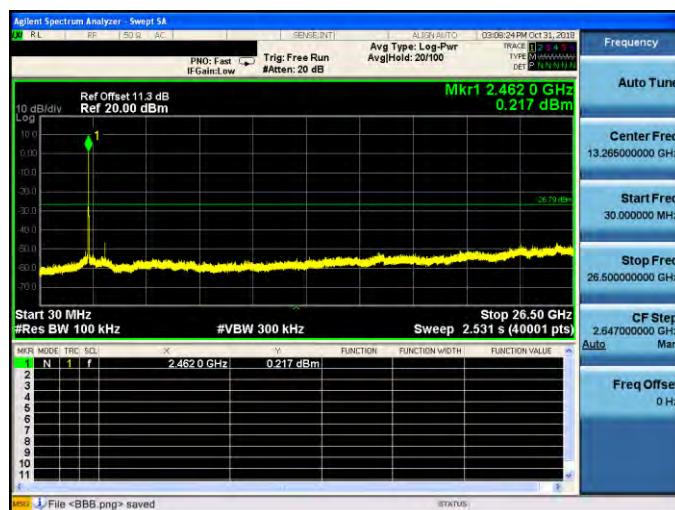
2412 MHz



2437 MHz



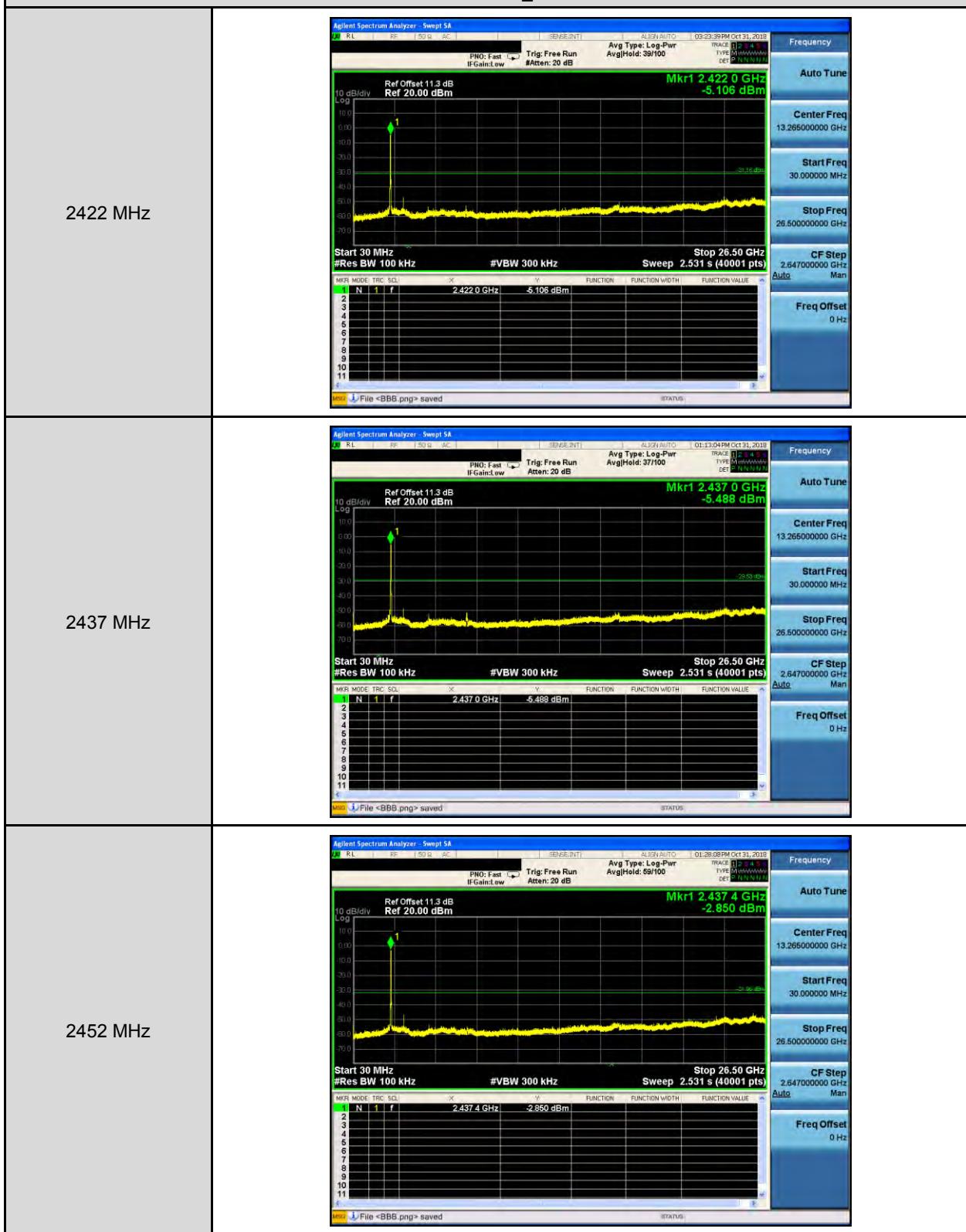
2462 MHz



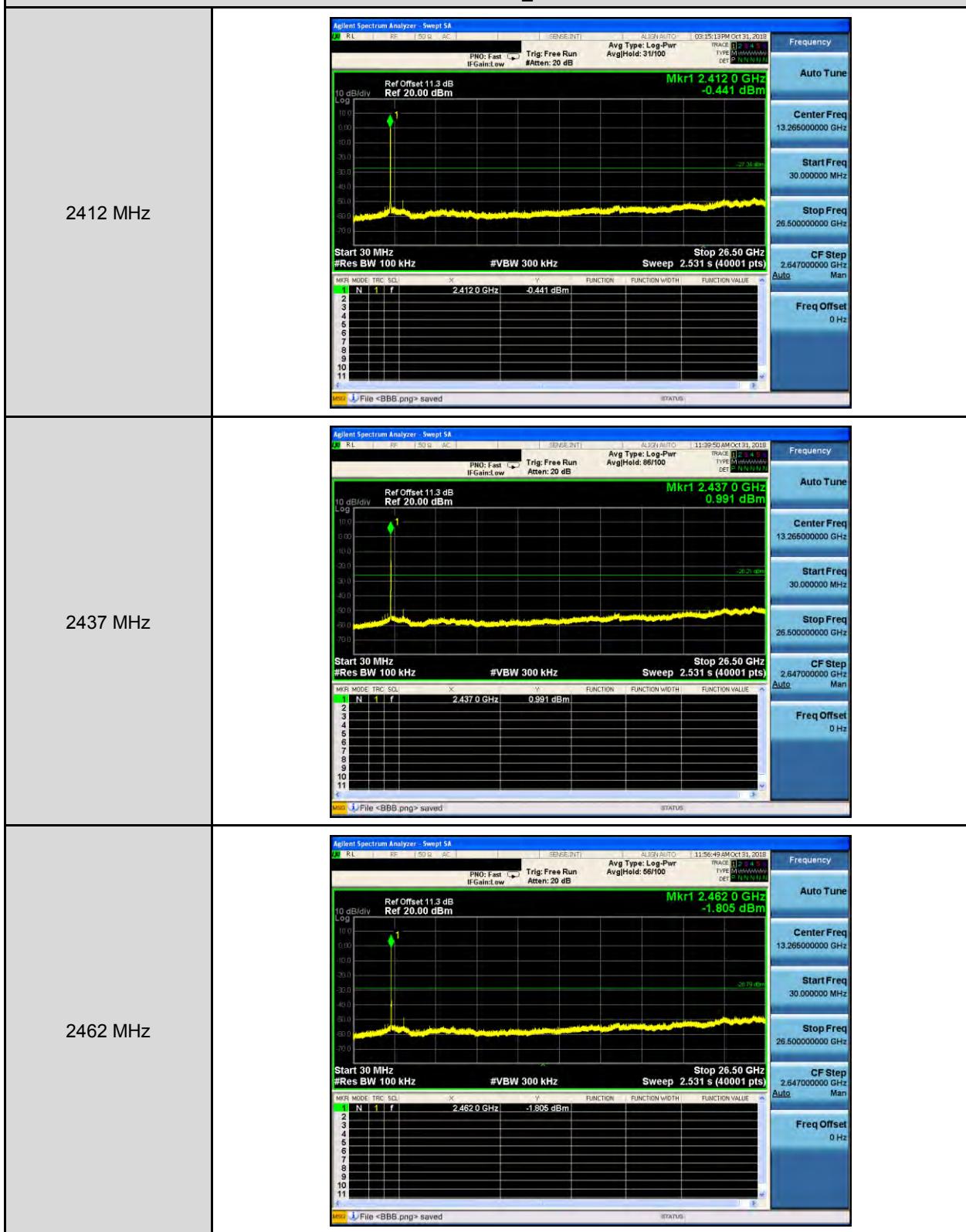
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0



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

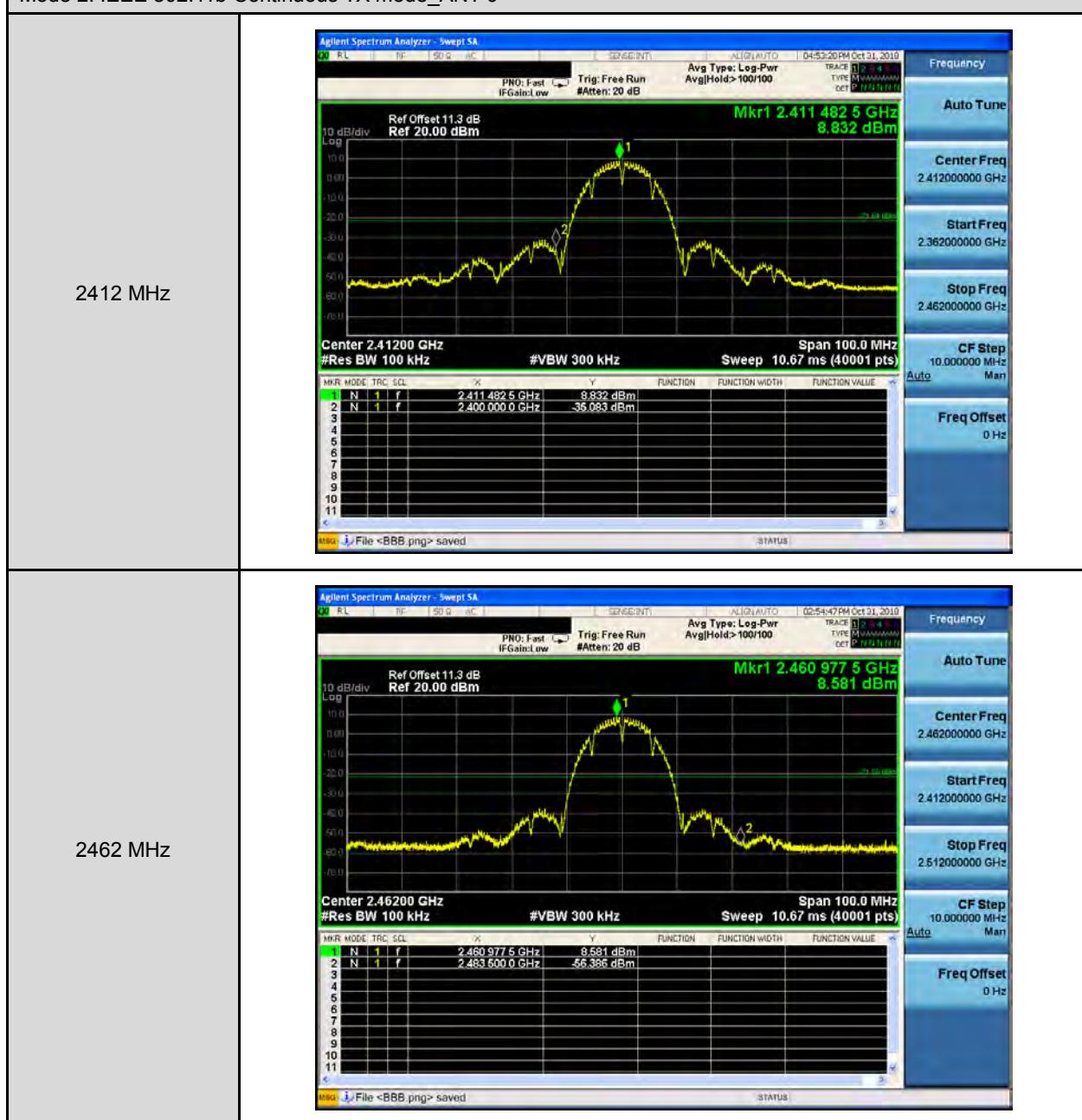


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1



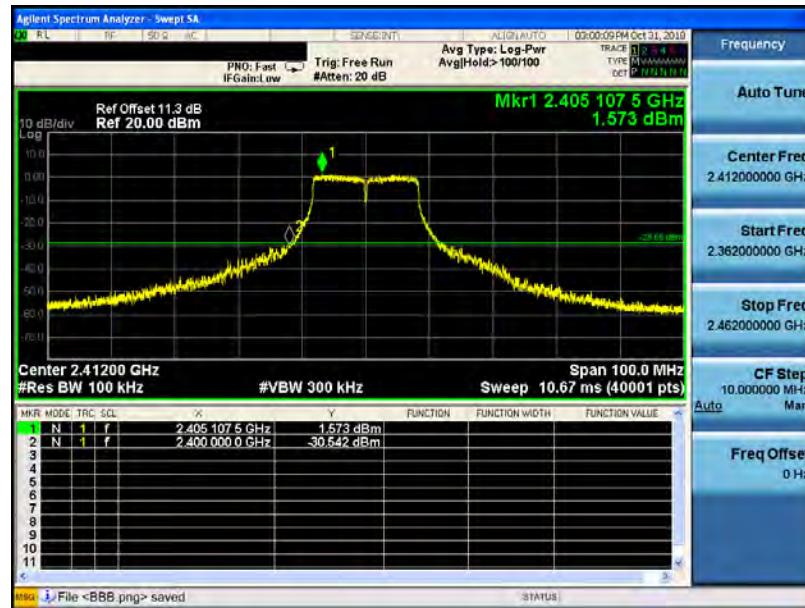
Conducted Band Edge

Mode 2: IEEE 802.11b Continuous TX mode_ANT-0

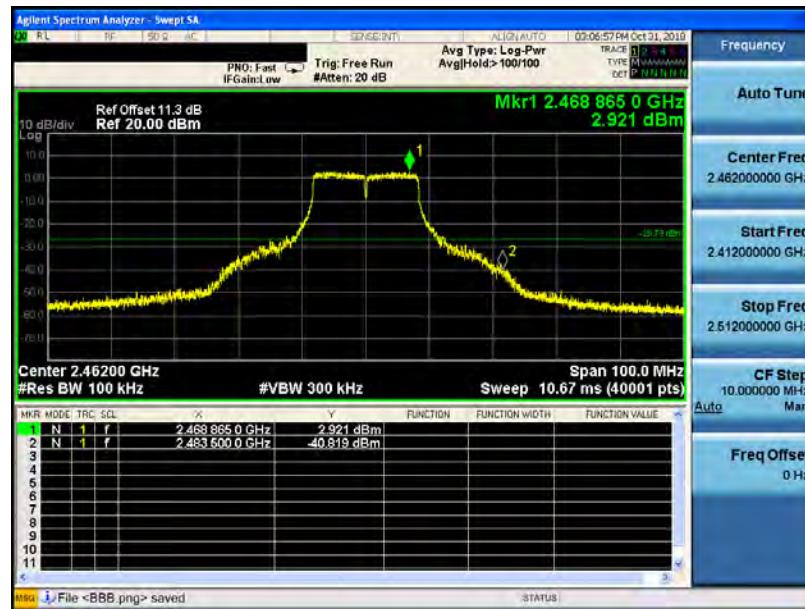


Mode 3: IEEE 802.11g Continuous TX mode_ANT-0

2412 MHz

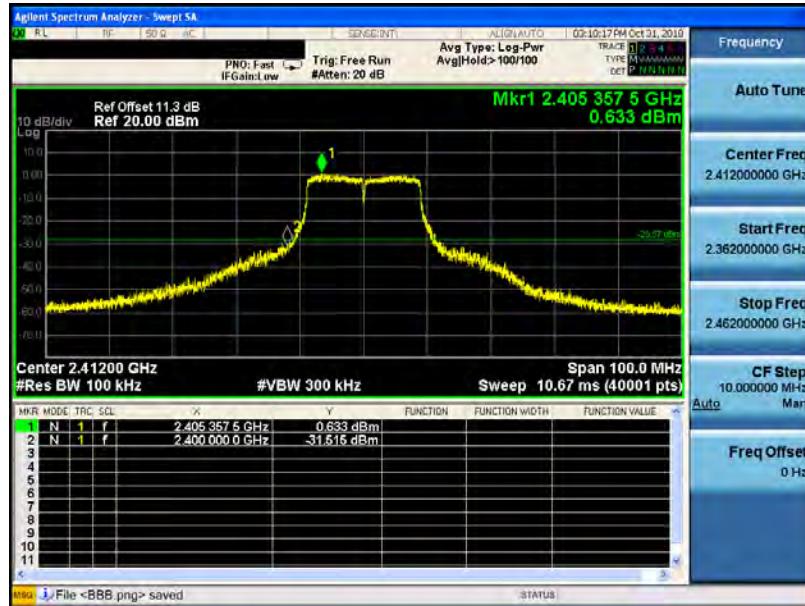


2462 MHz

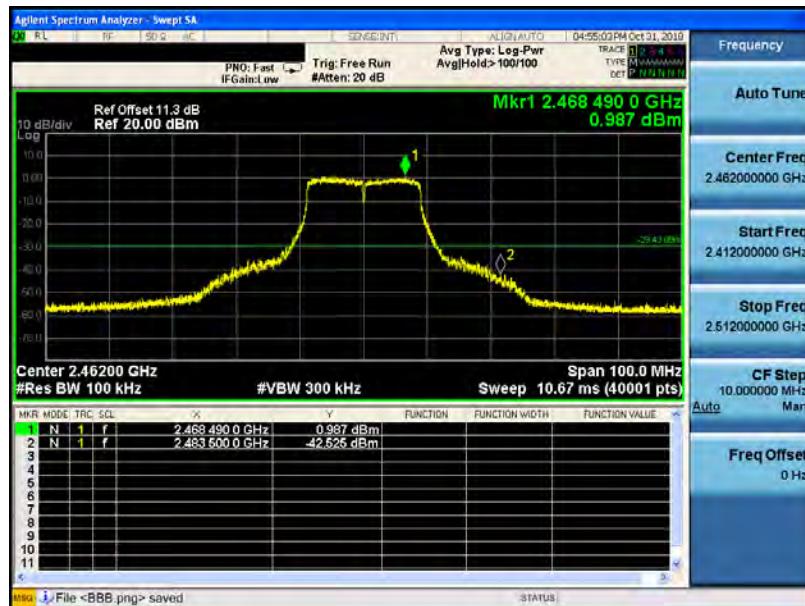


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-0

2412 MHz

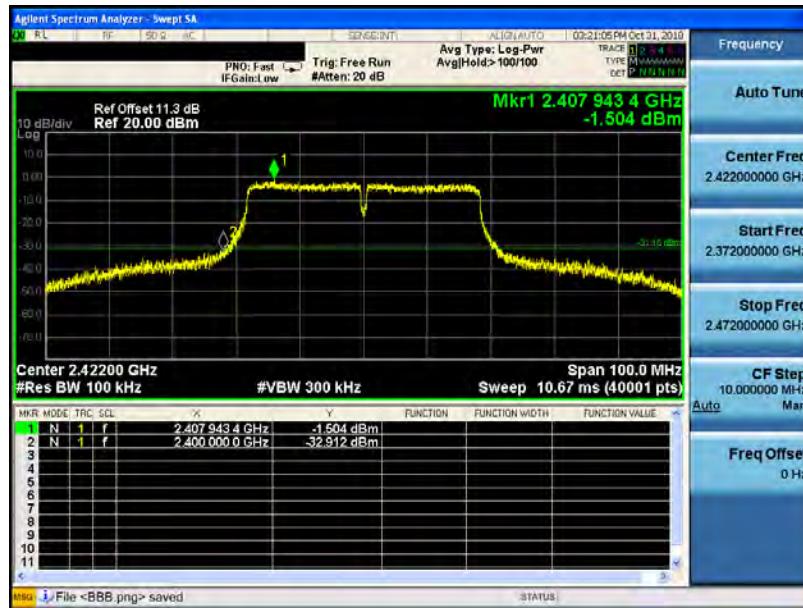


2462 MHz

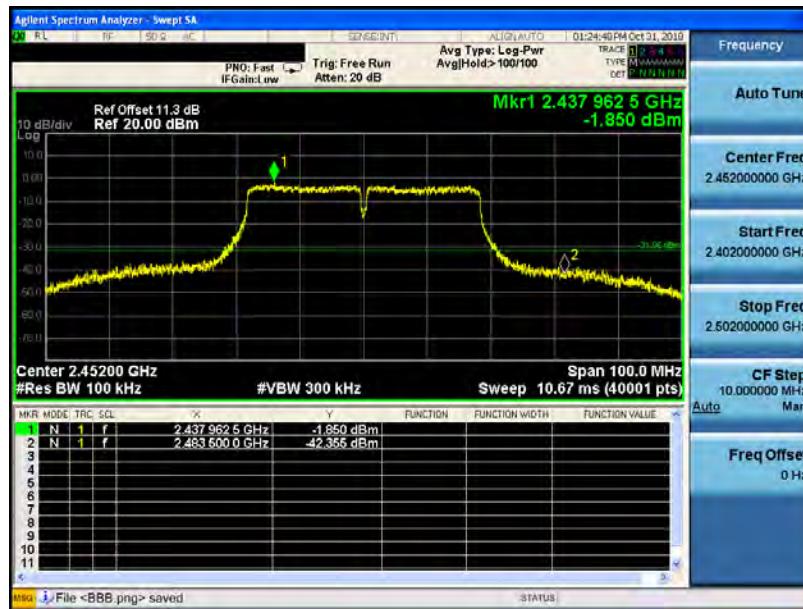


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-0

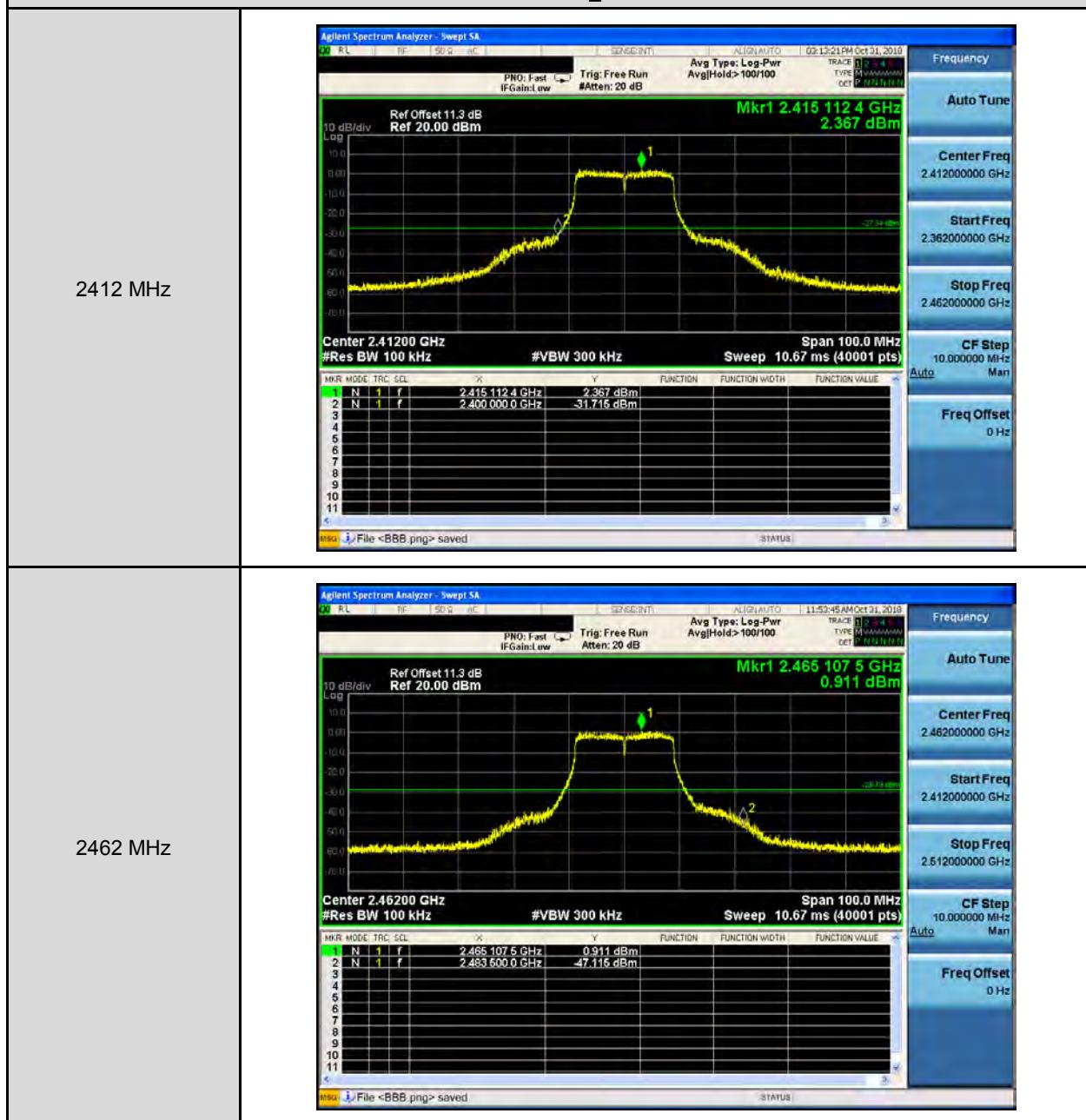
2422 MHz



2452 MHz

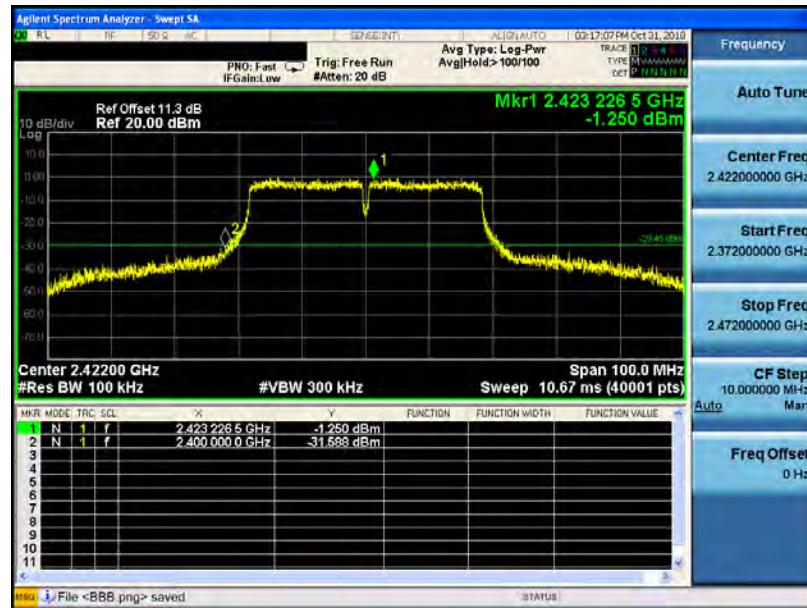


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode_ANT-1

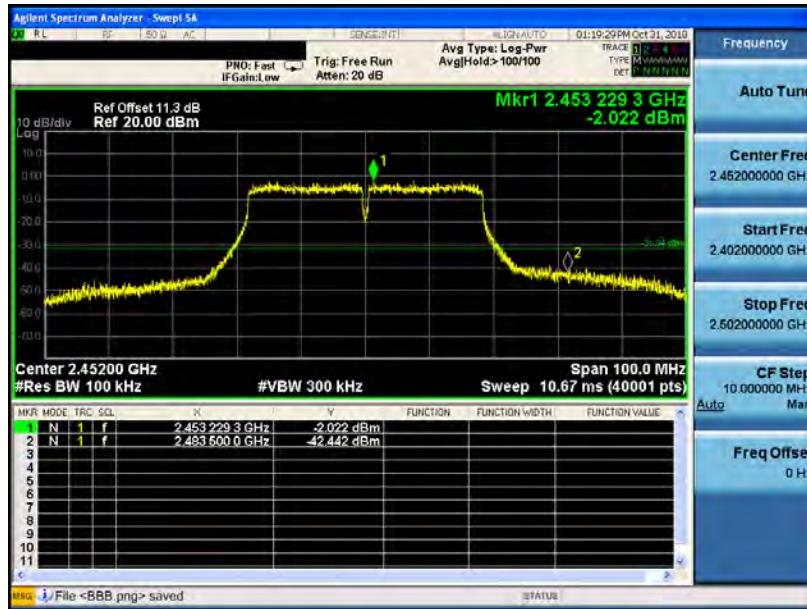


Mode 5: IEEE 802.11n 2.4 GHz 40 MHz Continuous TX mode_ANT-1

2422 MHz



2452 MHz



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
228.8500	46.90	-6.87	40.03	46.00	-5.97	QP	H
266.6800	47.80	-5.07	42.73	46.00	-3.27	QP	H
305.4800	39.33	-3.68	35.65	46.00	-10.35	QP	H
381.1400	38.11	-2.30	35.81	46.00	-10.19	QP	H
458.7400	34.02	-0.41	33.61	46.00	-12.39	QP	H
533.4300	31.63	0.69	32.32	46.00	-13.68	QP	H
191.0200	41.58	-7.71	33.87	43.50	-9.63	QP	V
229.8200	45.00	-6.80	38.20	46.00	-7.80	QP	V
266.6800	39.15	-5.07	34.08	46.00	-11.92	QP	V
382.1100	36.36	-2.28	34.08	46.00	-11.92	QP	V
466.5000	37.33	-0.33	37.00	46.00	-9.00	QP	V
535.3700	38.95	0.74	39.69	46.00	-6.31	QP	V

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

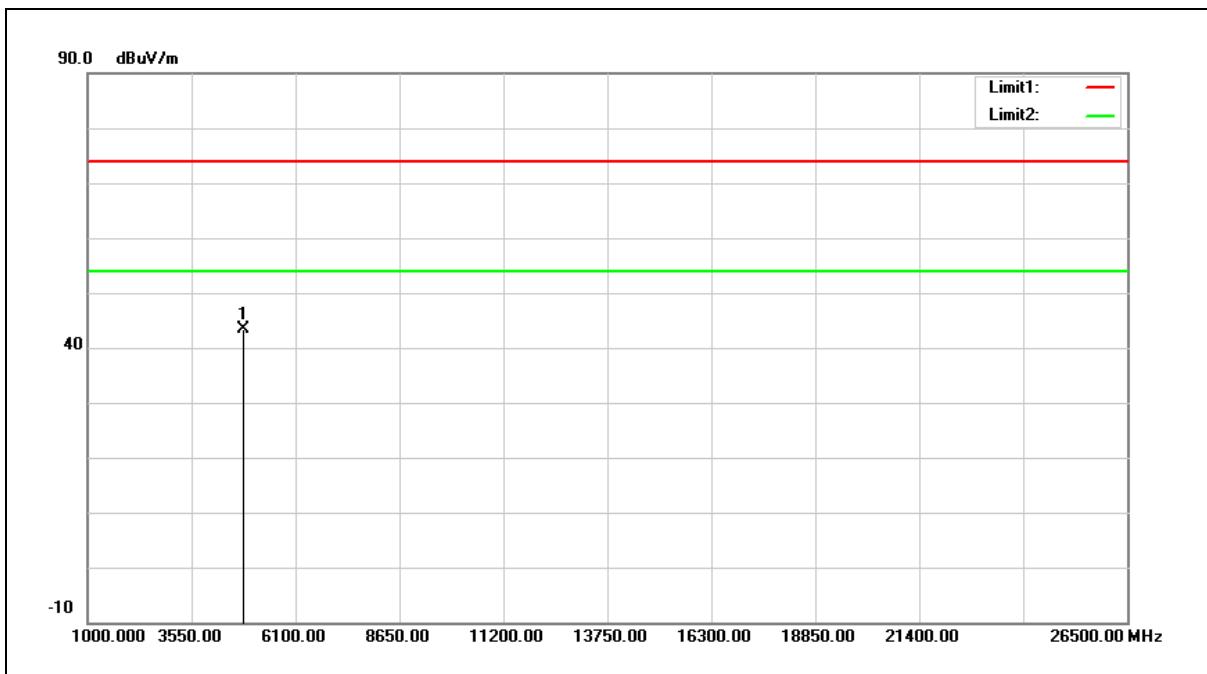
Example: $40.03 = -6.87 + 46.90$

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	39.63	3.80	43.43	74.00	-30.57	peak

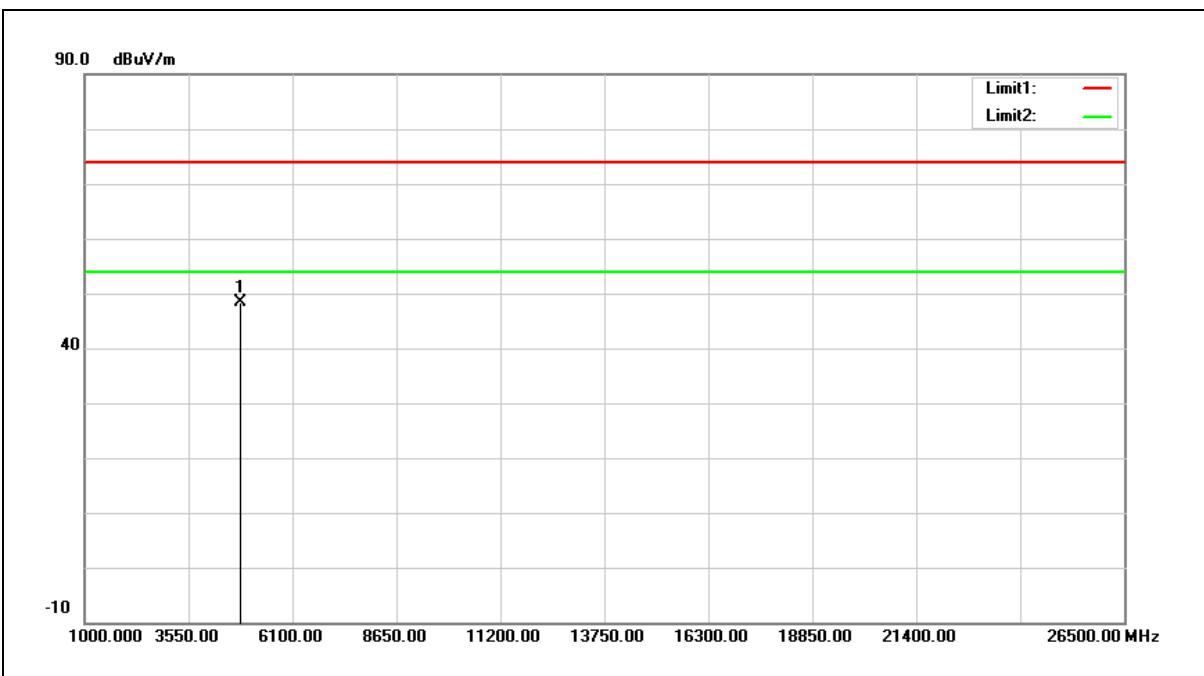
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: $43.43=3.80+39.63$

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	44.46	3.80	48.26	74.00	-25.74	peak

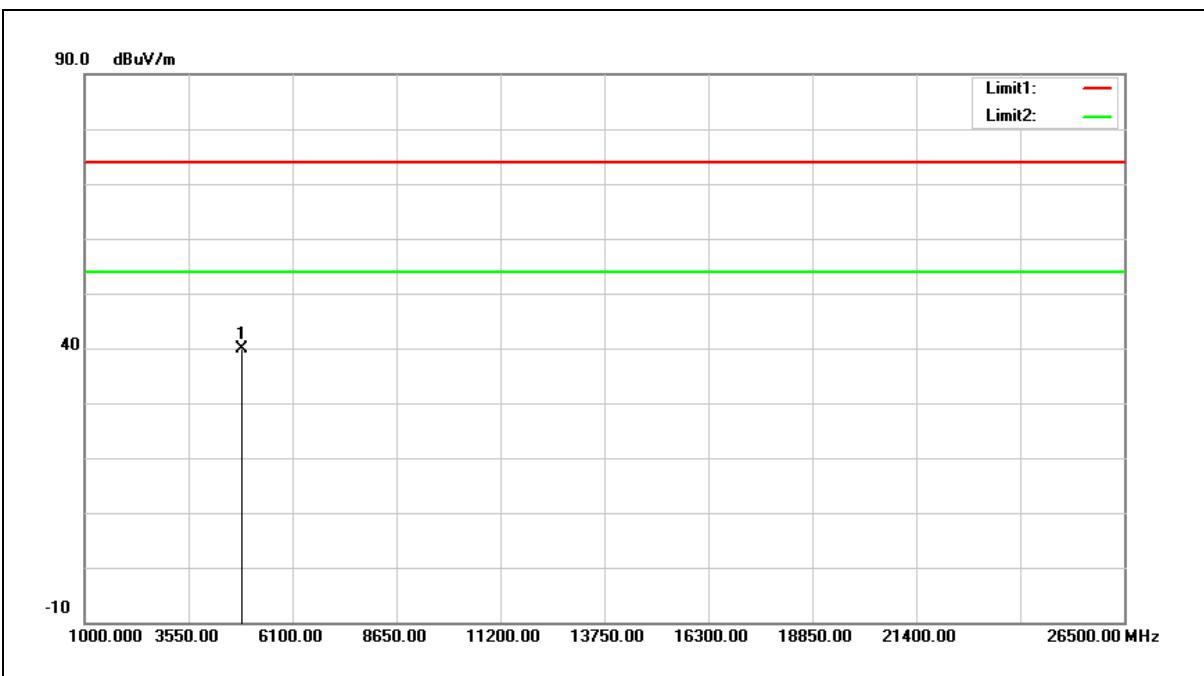
Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: $48.26 = 3.80 + 44.46$

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		



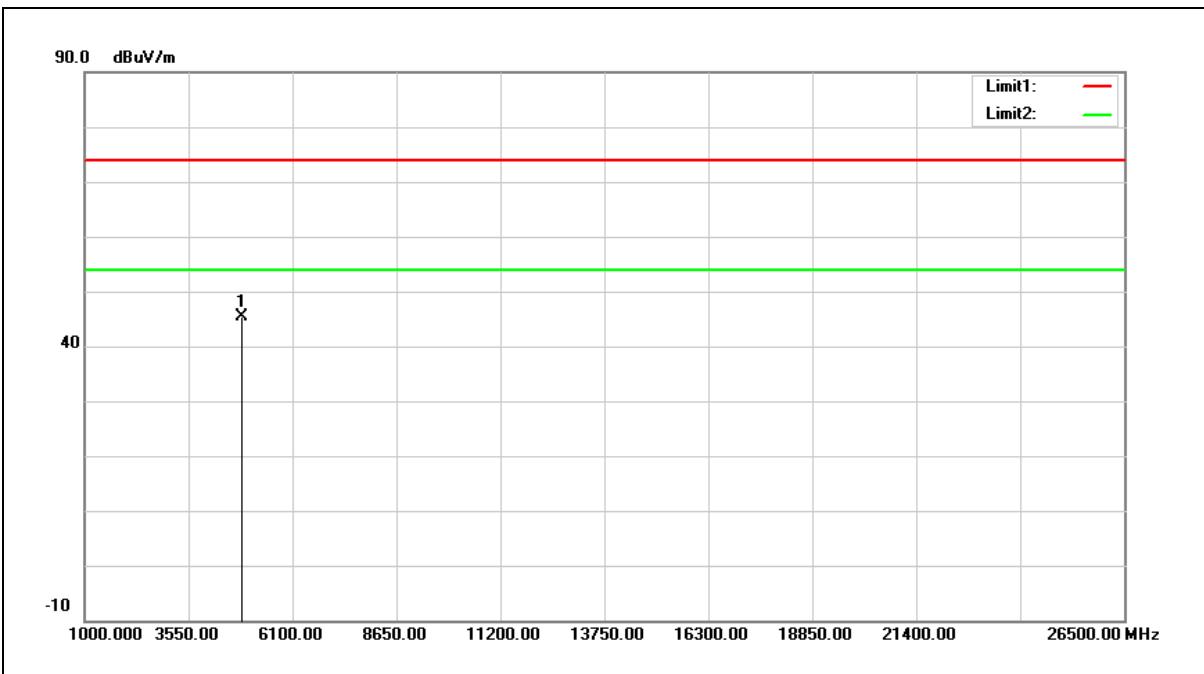
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	36.05	3.95	40.00	74.00	-34.00	peak

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 2		
Ant.Polar.:	Vertical		



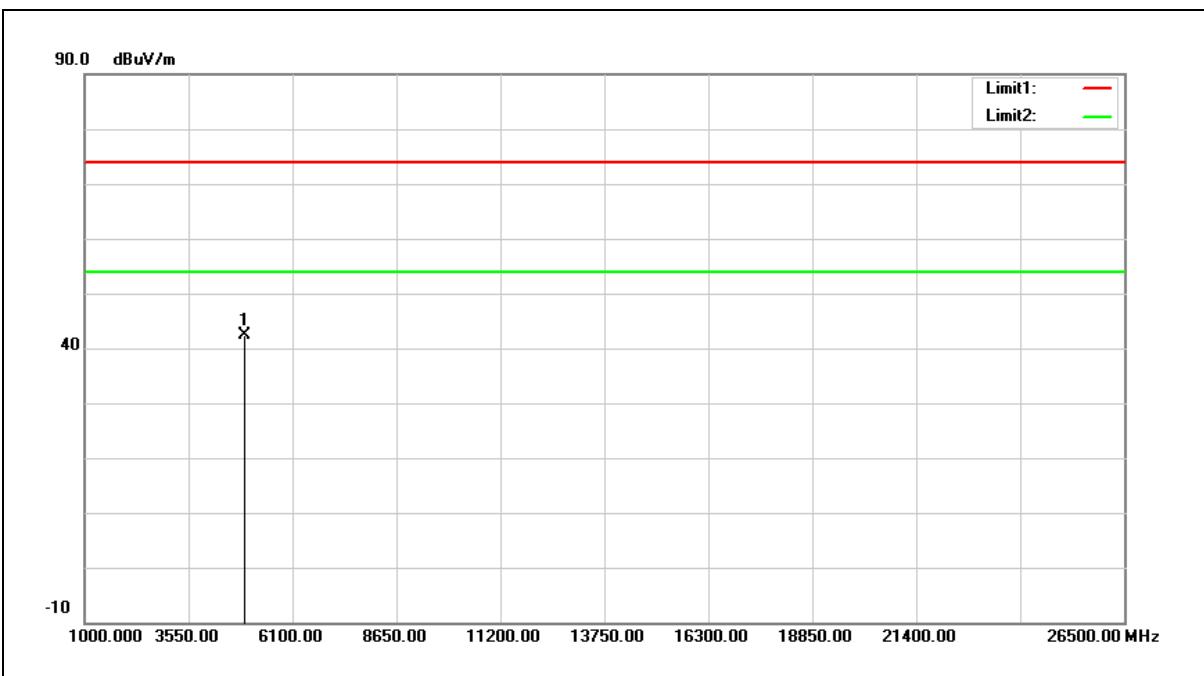
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	41.40	3.95	45.35	74.00	-28.65	peak

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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



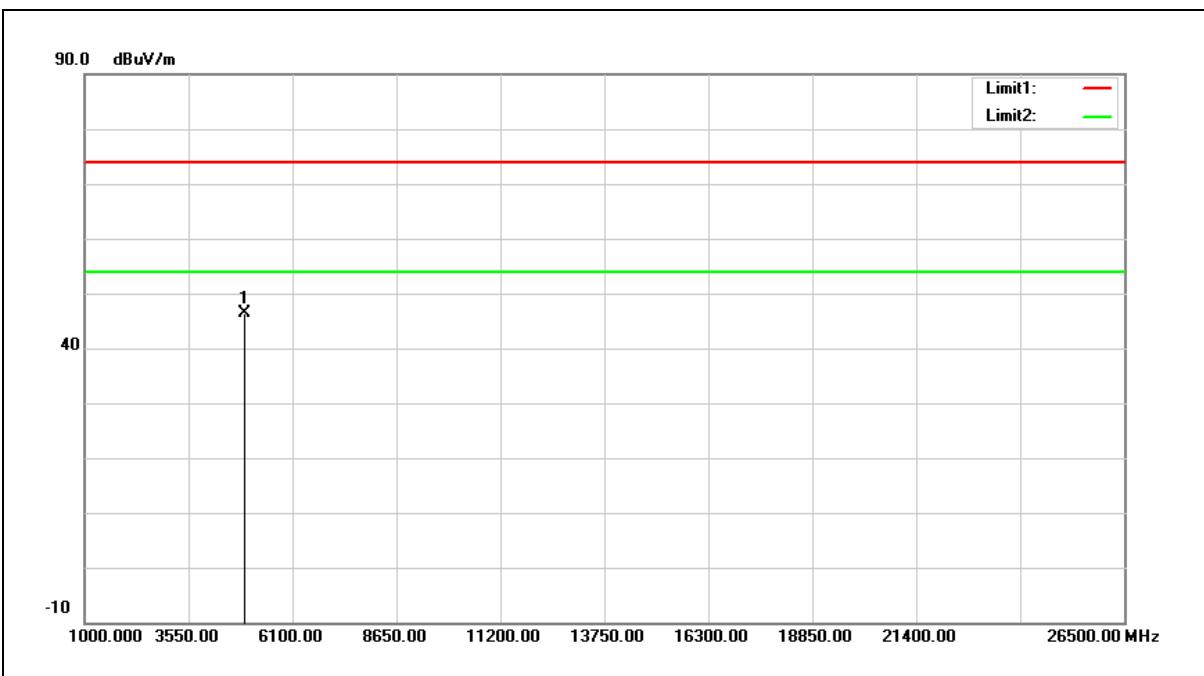
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	38.38	4.11	42.49	74.00	-31.51	peak

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 2		
Ant.Polar.:	Vertical		



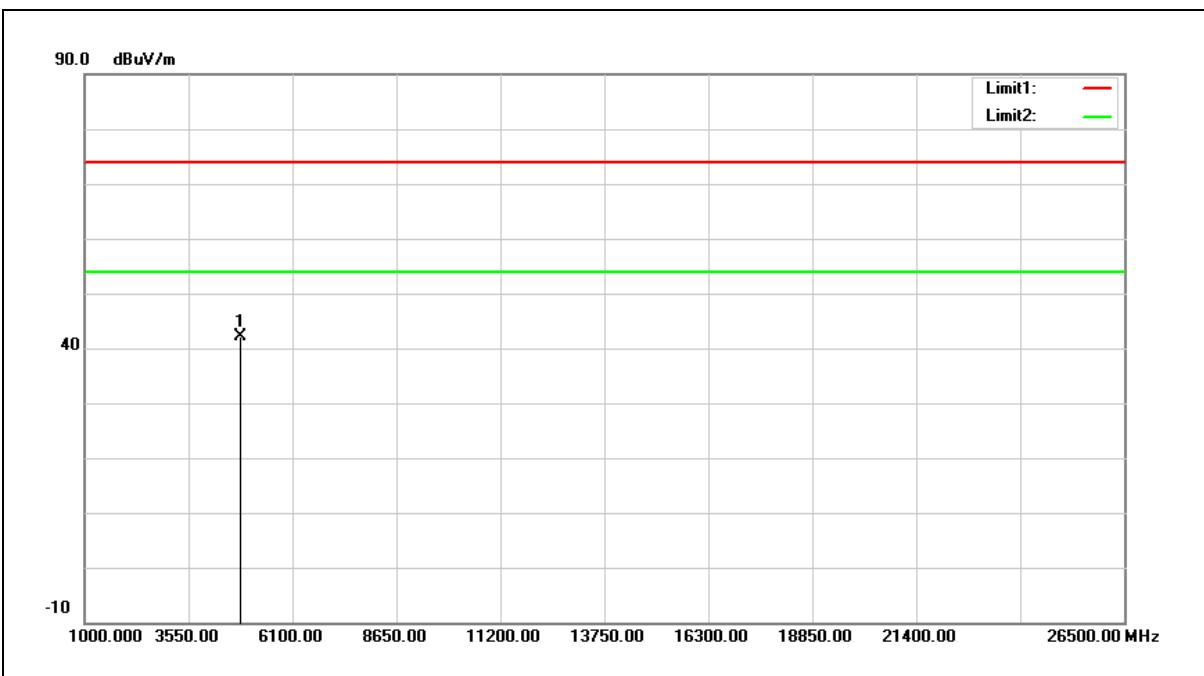
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	42.19	4.11	46.30	74.00	-27.70	peak

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:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



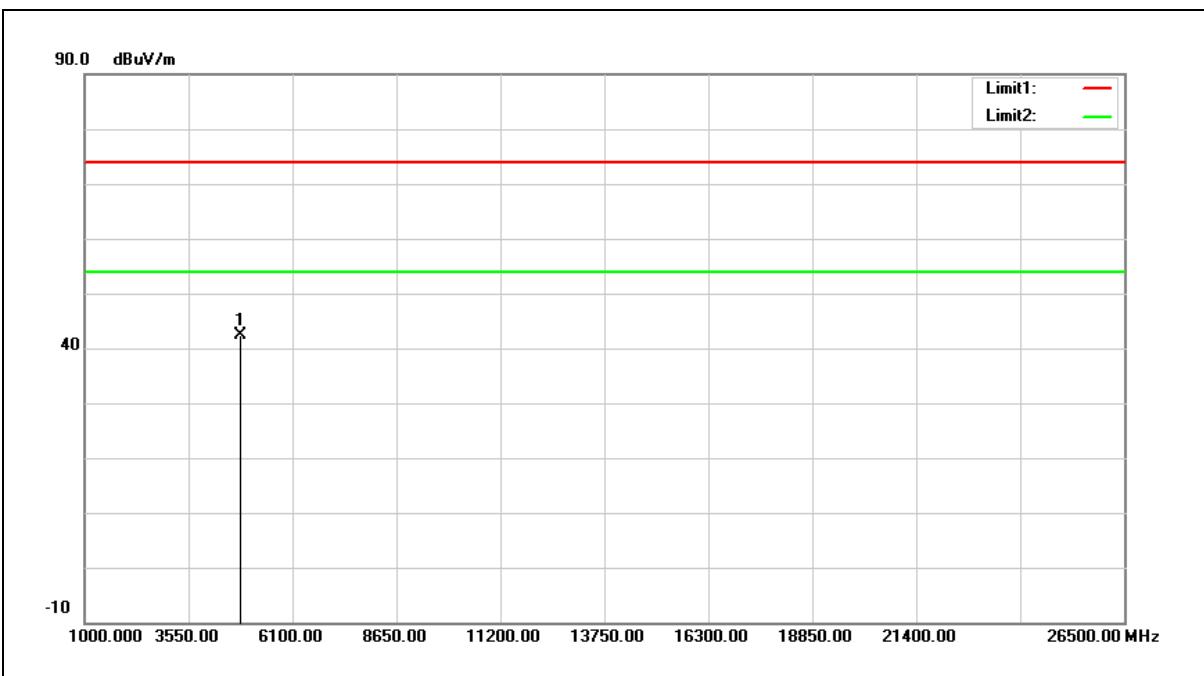
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	38.40	3.80	42.20	74.00	-31.80	peak

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		



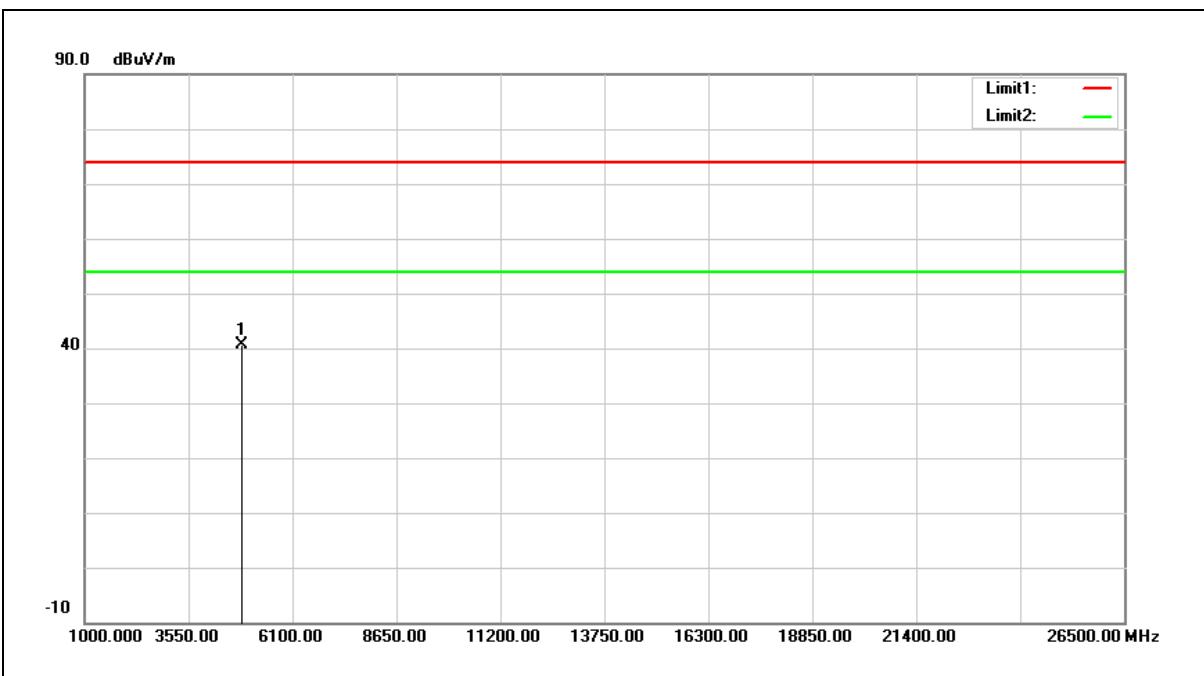
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	38.55	3.80	42.35	74.00	-31.65	peak

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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



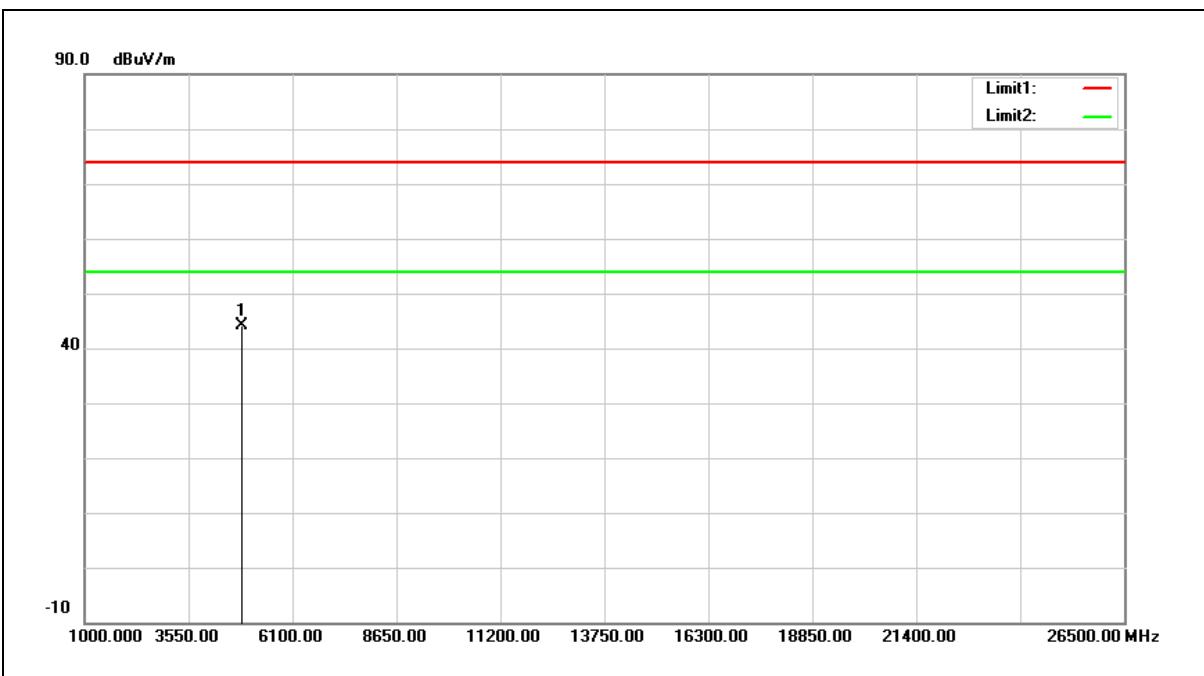
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	36.57	3.95	40.52	74.00	-33.48	peak

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.:	Vertical		



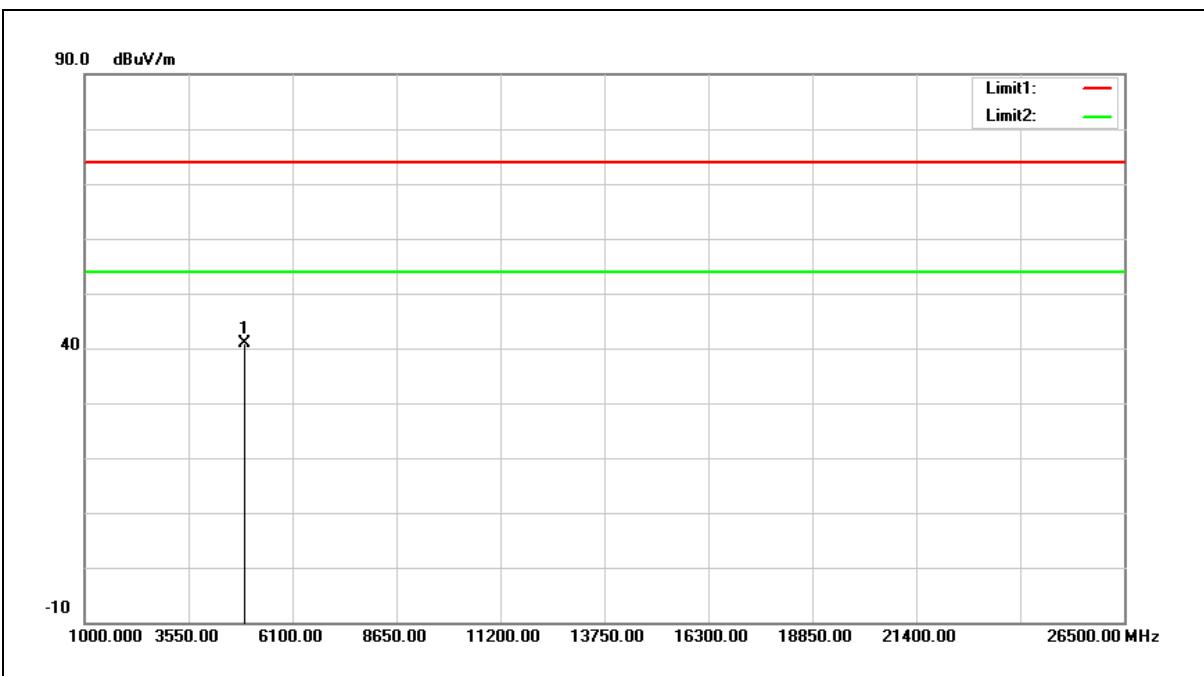
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	40.08	3.95	44.03	74.00	-29.97	peak

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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



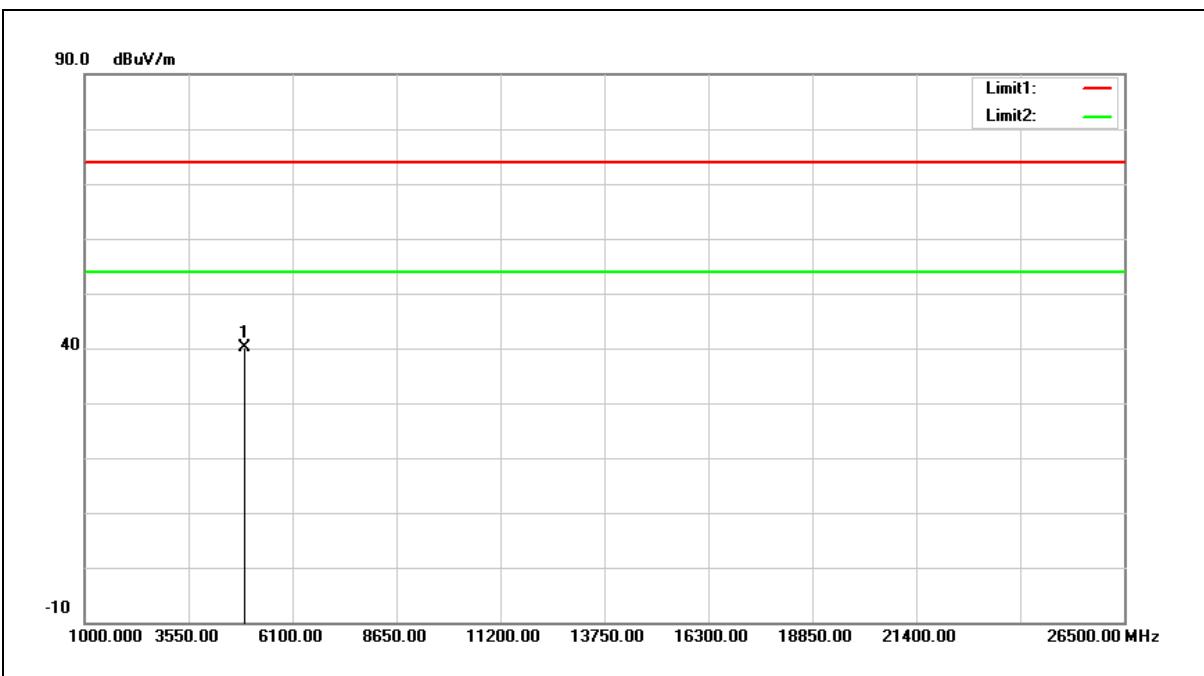
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	36.86	4.11	40.97	74.00	-33.03	peak

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		



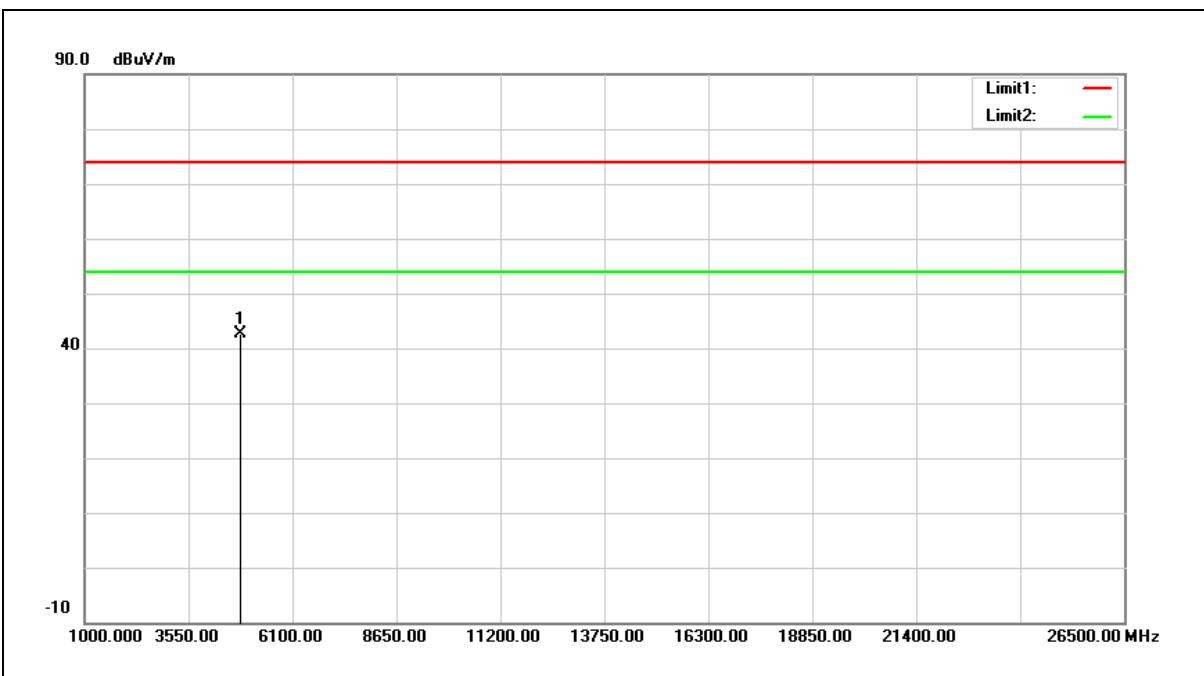
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	35.90	4.11	40.01	74.00	-33.99	peak

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		



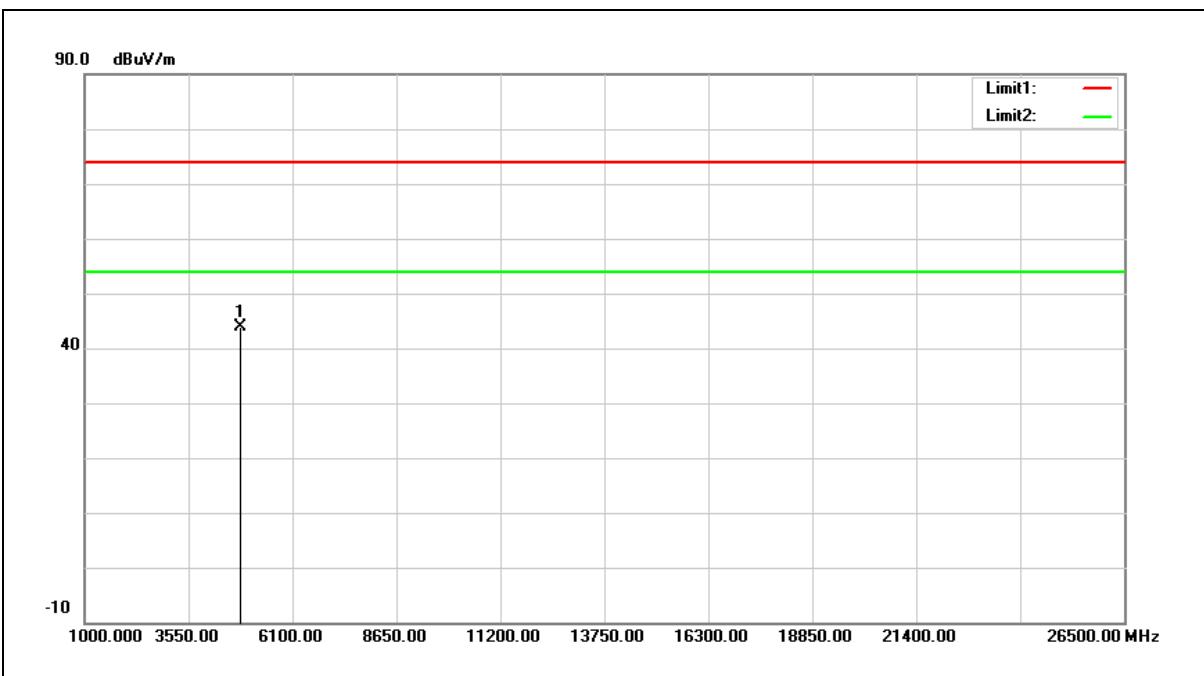
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	38.79	3.80	42.59	74.00	-31.41	peak

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		



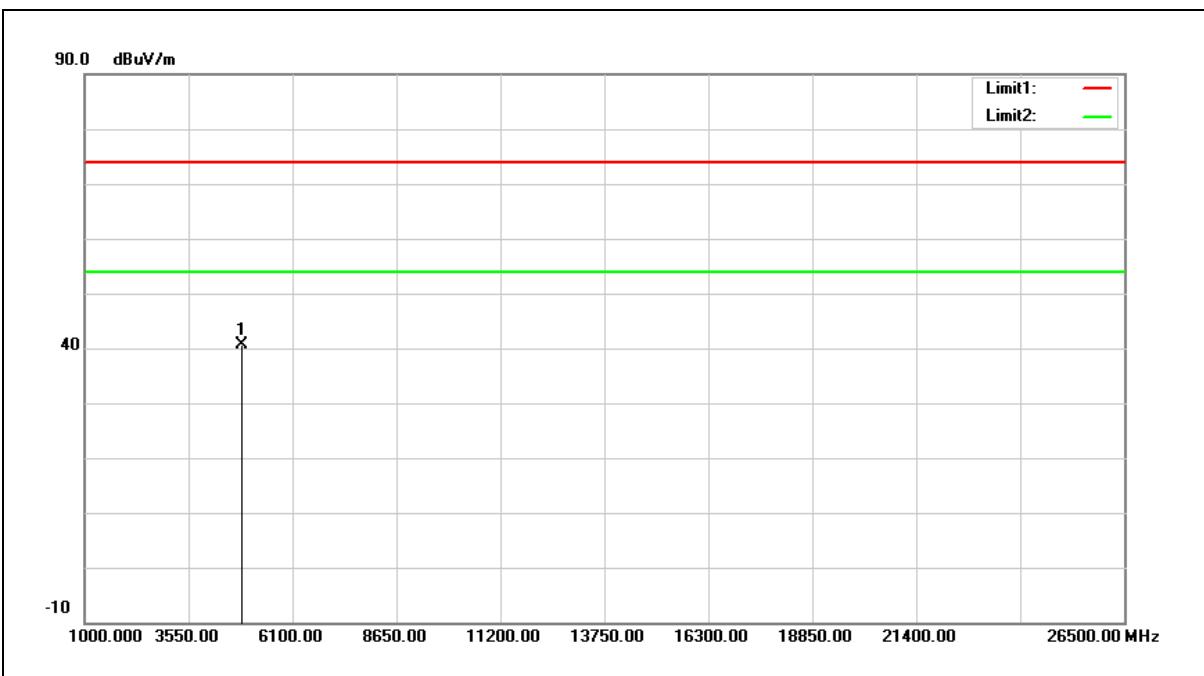
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	39.99	3.80	43.79	74.00	-30.21	peak

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.:	Horizontal		



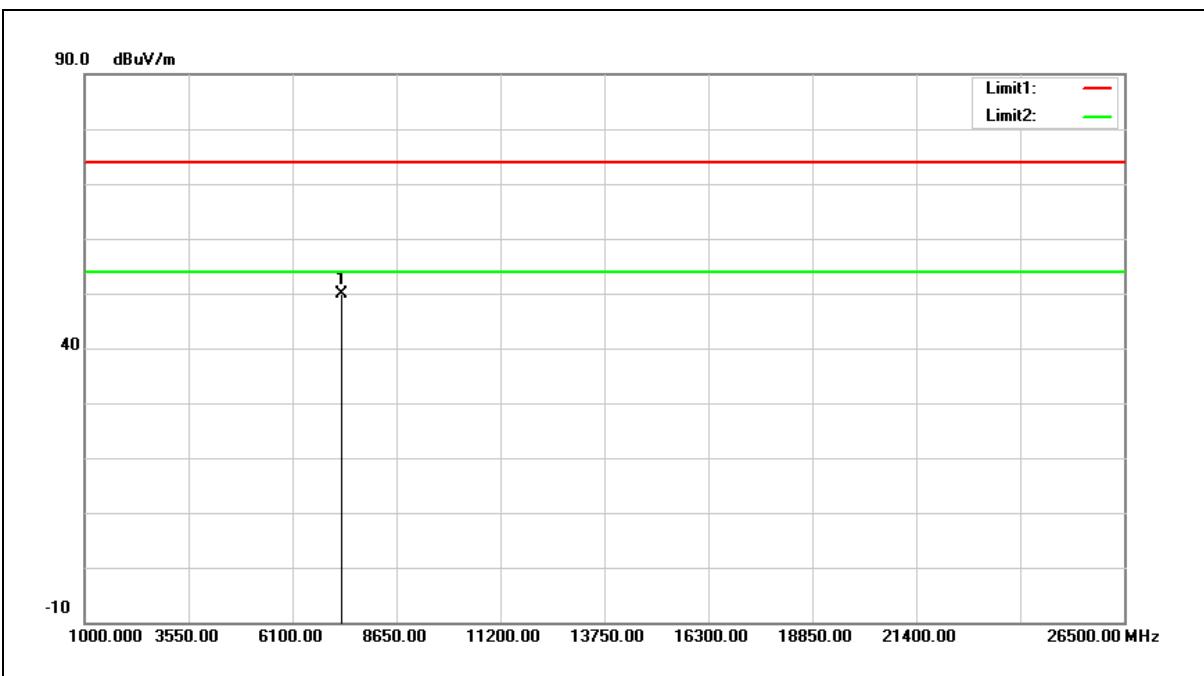
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	36.62	3.95	40.57	74.00	-33.43	peak

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		



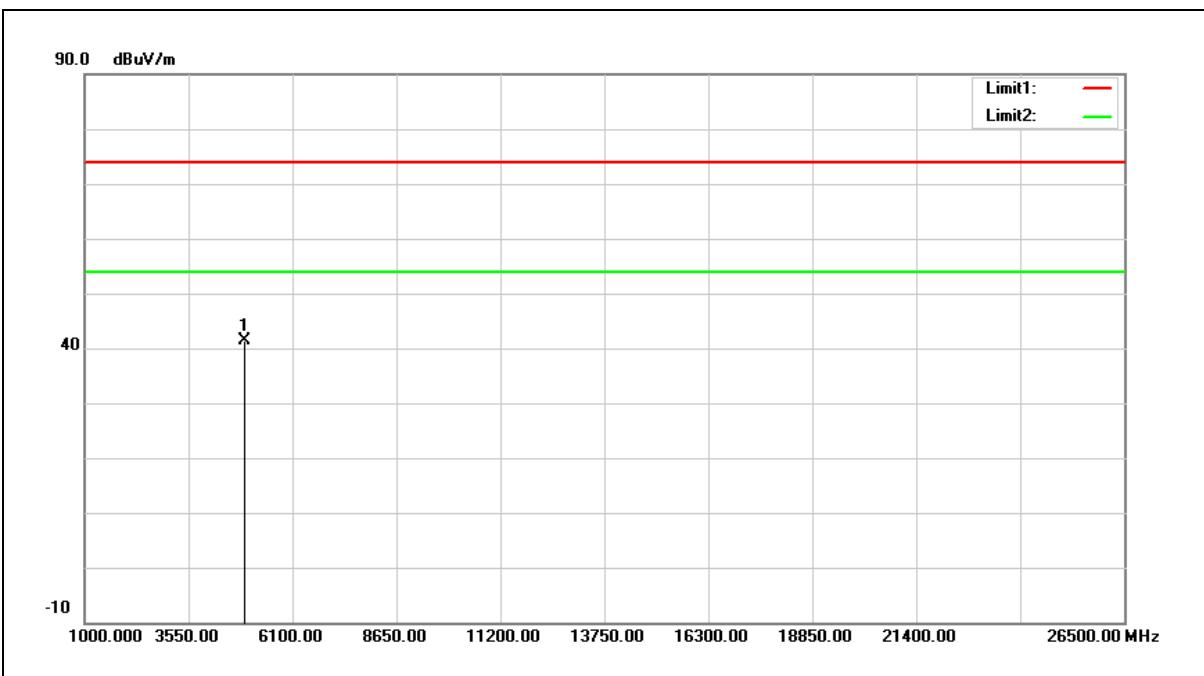
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7311.000	39.51	10.36	49.87	74.00	-24.13	peak

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.:	Horizontal		



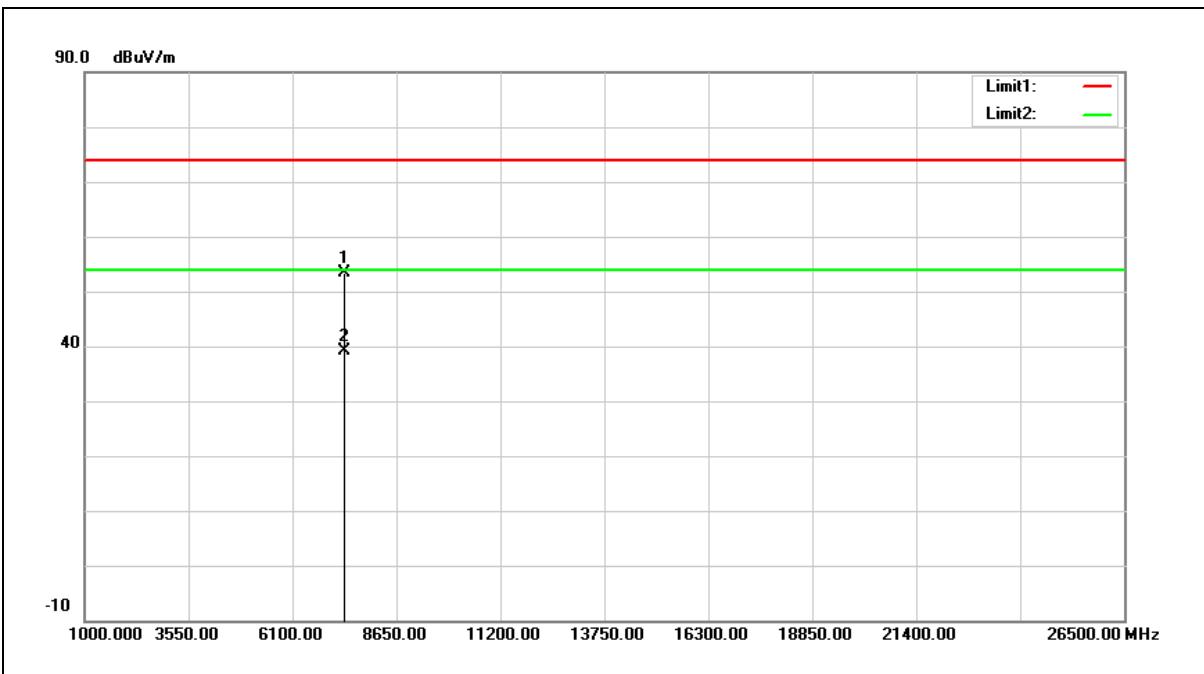
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	37.16	4.11	41.27	74.00	-32.73	peak

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.:	Vertical		



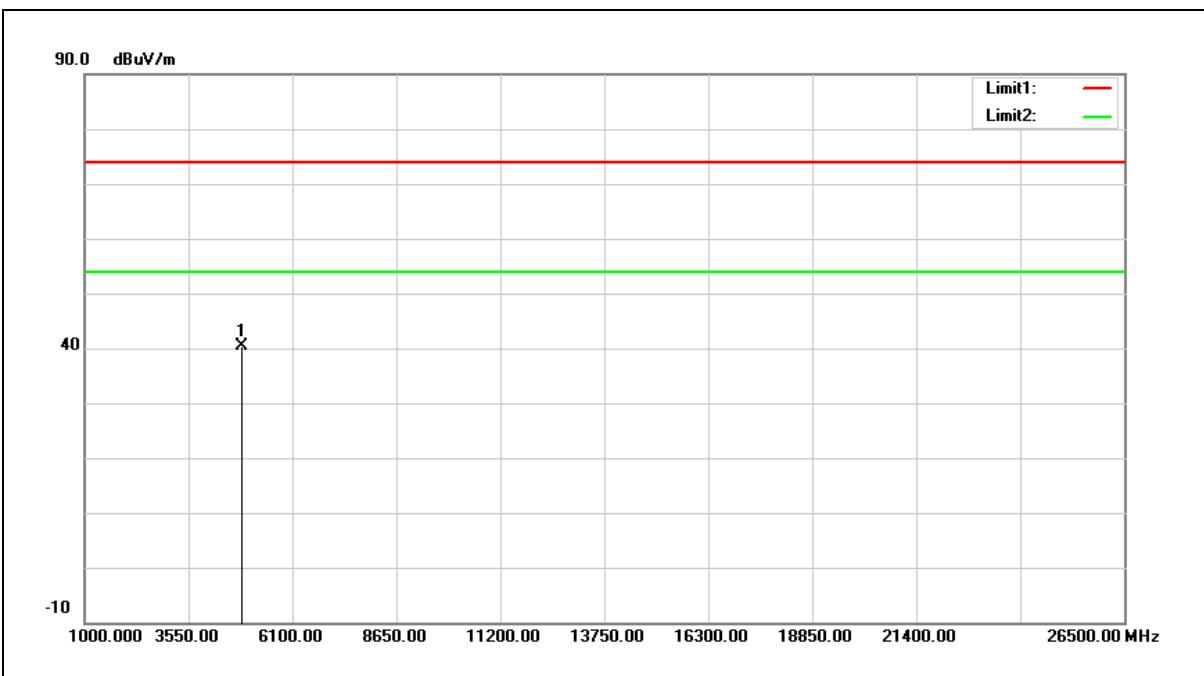
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7386.000	42.68	10.62	53.30	74.00	-20.70	peak
2	7386.000	28.44	10.62	39.06	54.00	-14.94	Avg

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:	2422 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



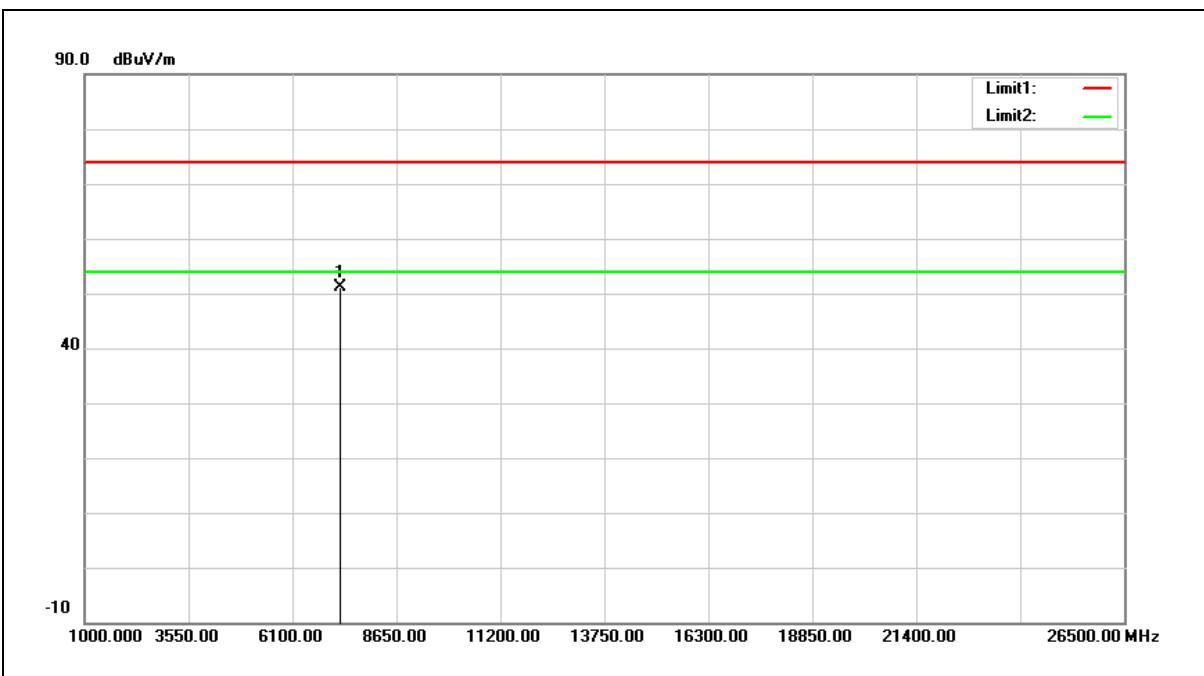
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	36.58	3.86	40.44	74.00	-33.56	peak

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		



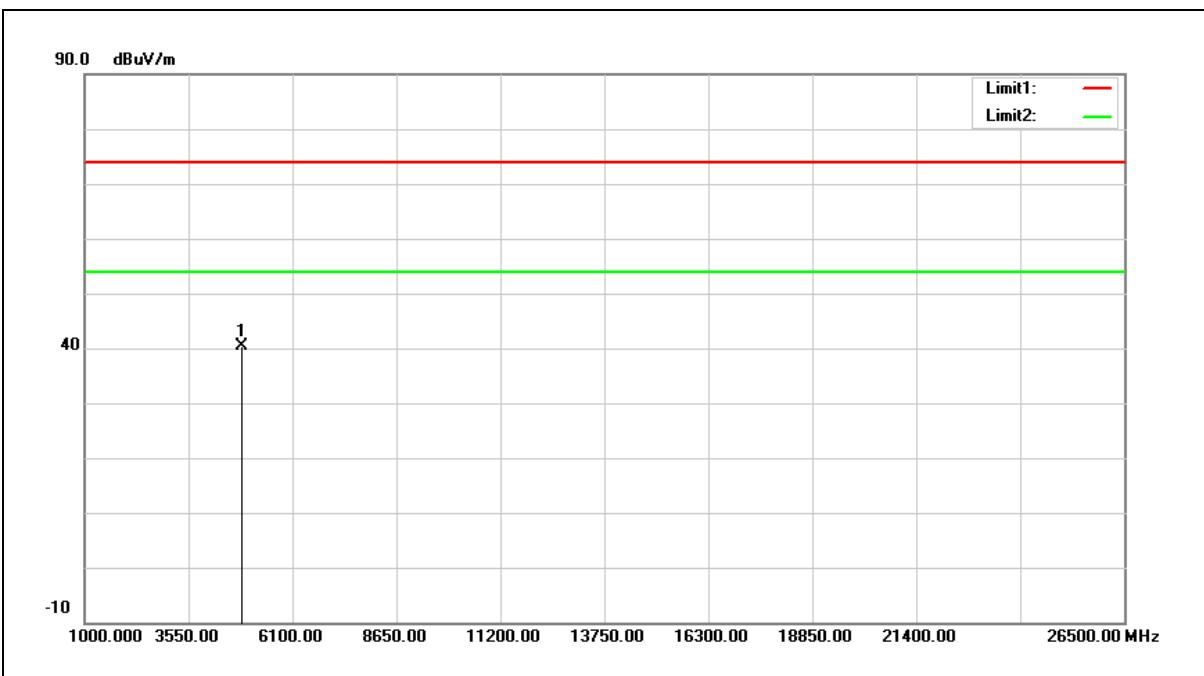
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7266.000	40.98	10.21	51.19	74.00	-22.81	peak

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		



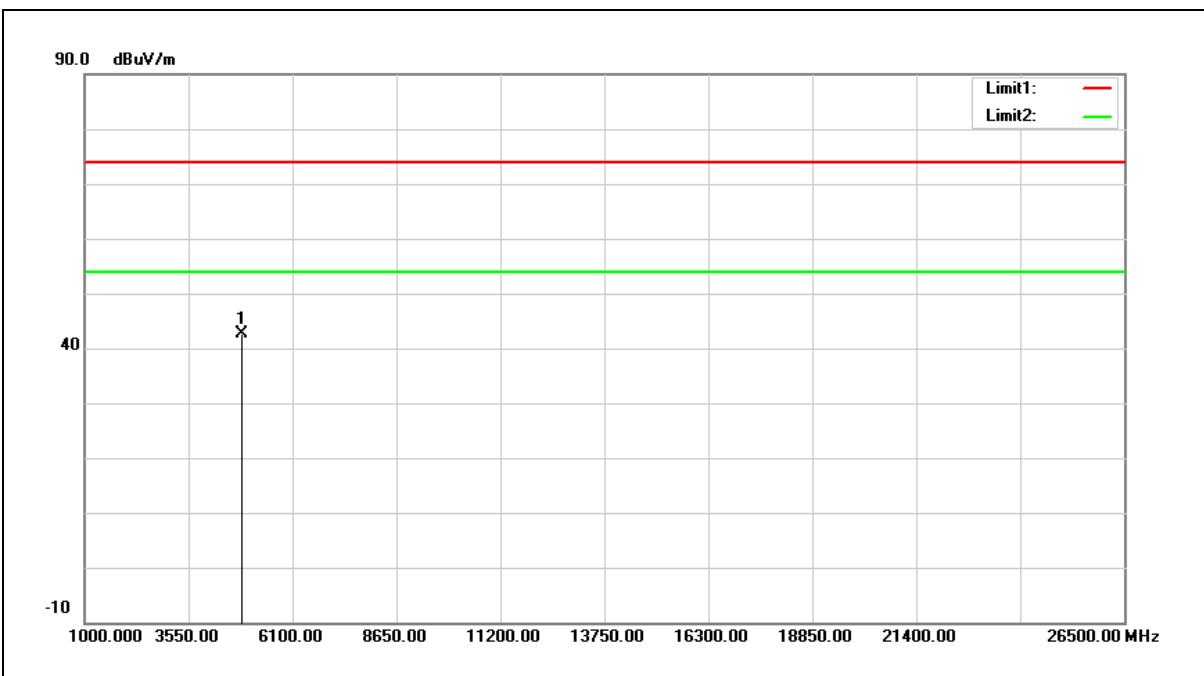
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	36.53	3.95	40.48	74.00	-33.52	peak

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		



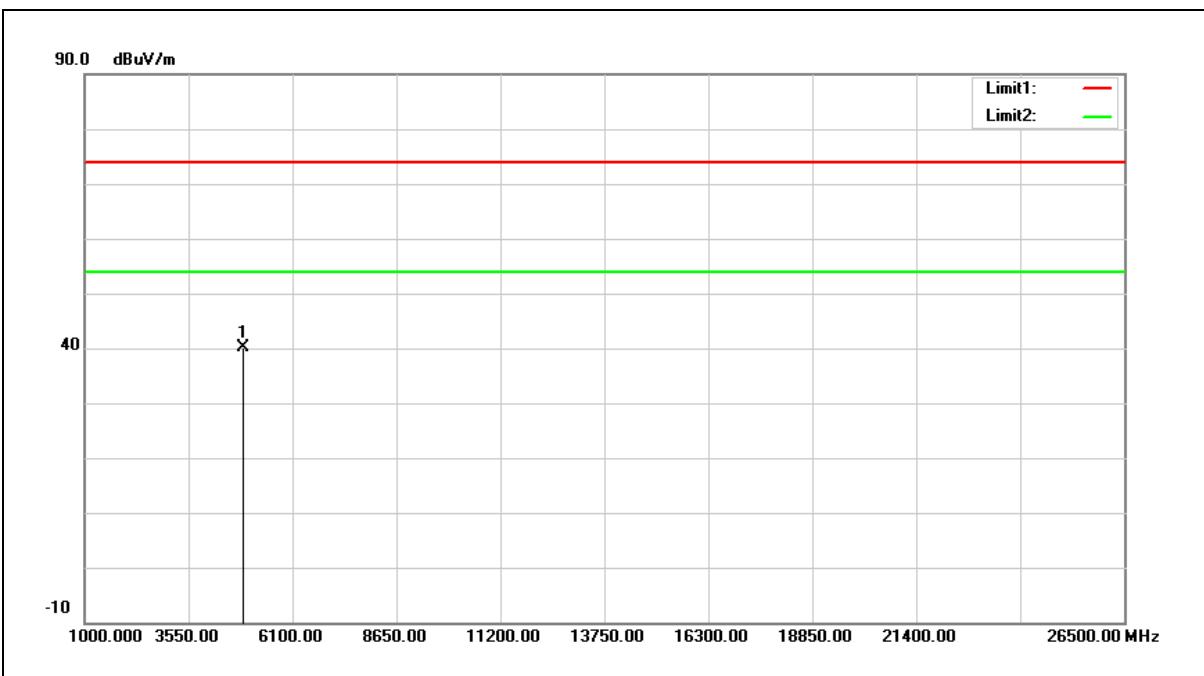
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	38.77	3.95	42.72	74.00	-31.28	peak

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:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



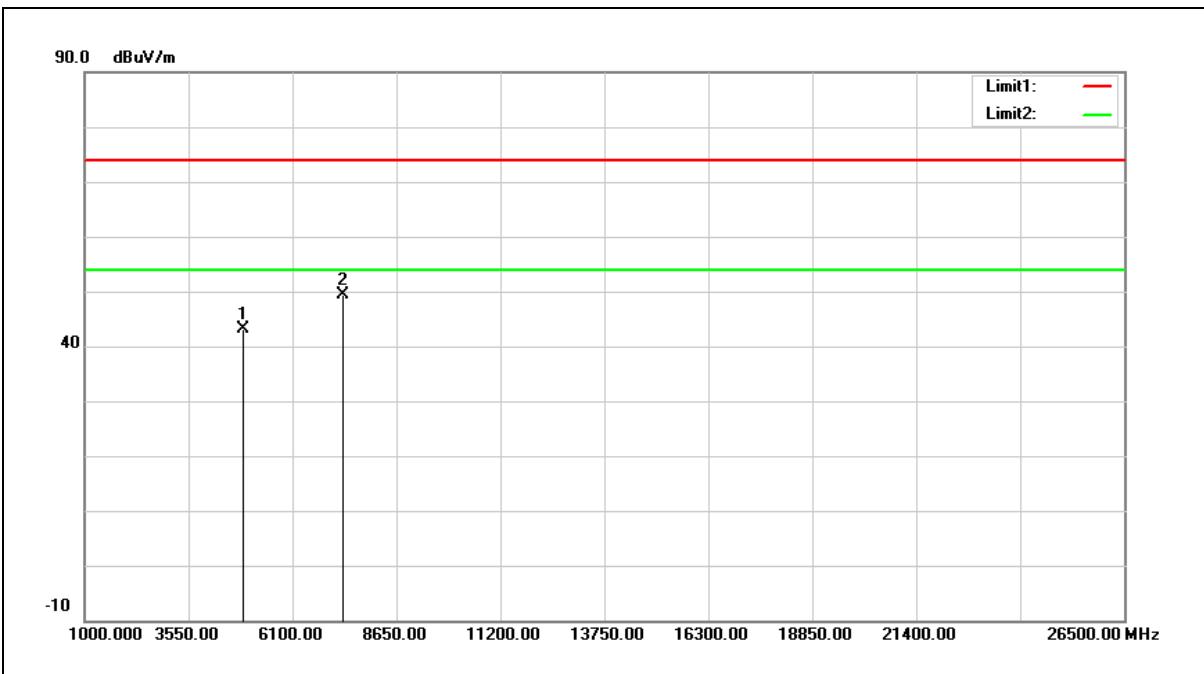
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	36.04	4.05	40.09	74.00	-33.91	peak

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	39.05	4.05	43.10	74.00	-30.90	peak
2	7356.000	38.95	10.51	49.46	74.00	-24.54	peak

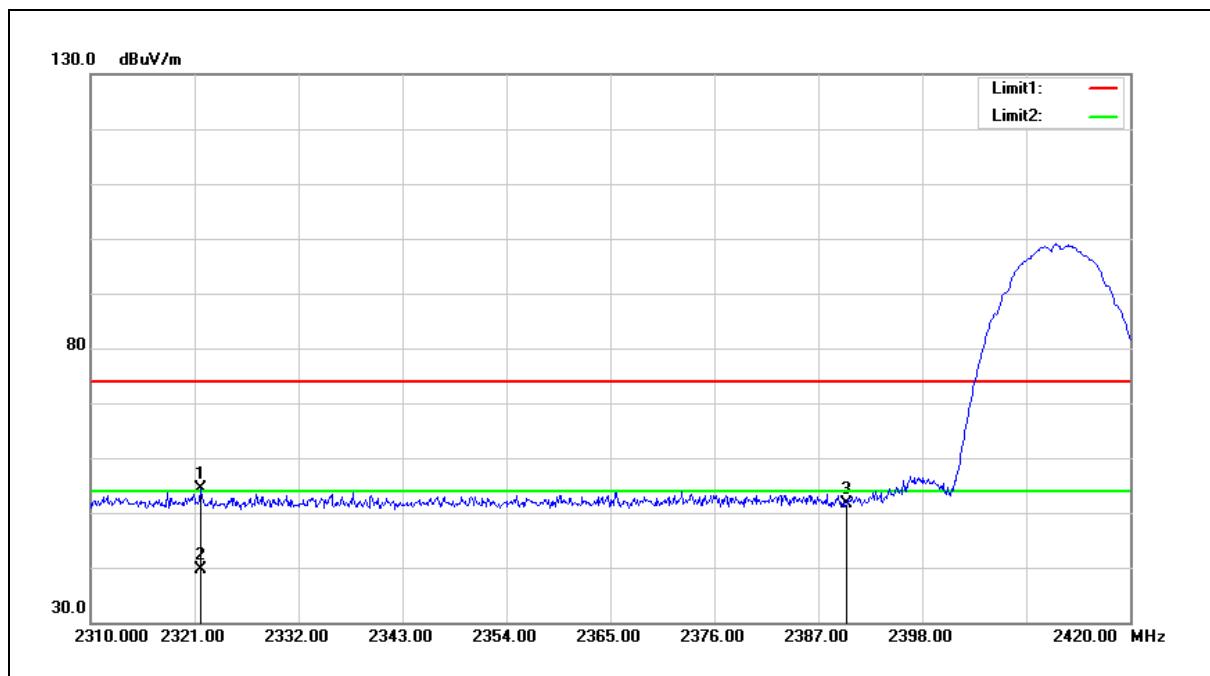
Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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.

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		



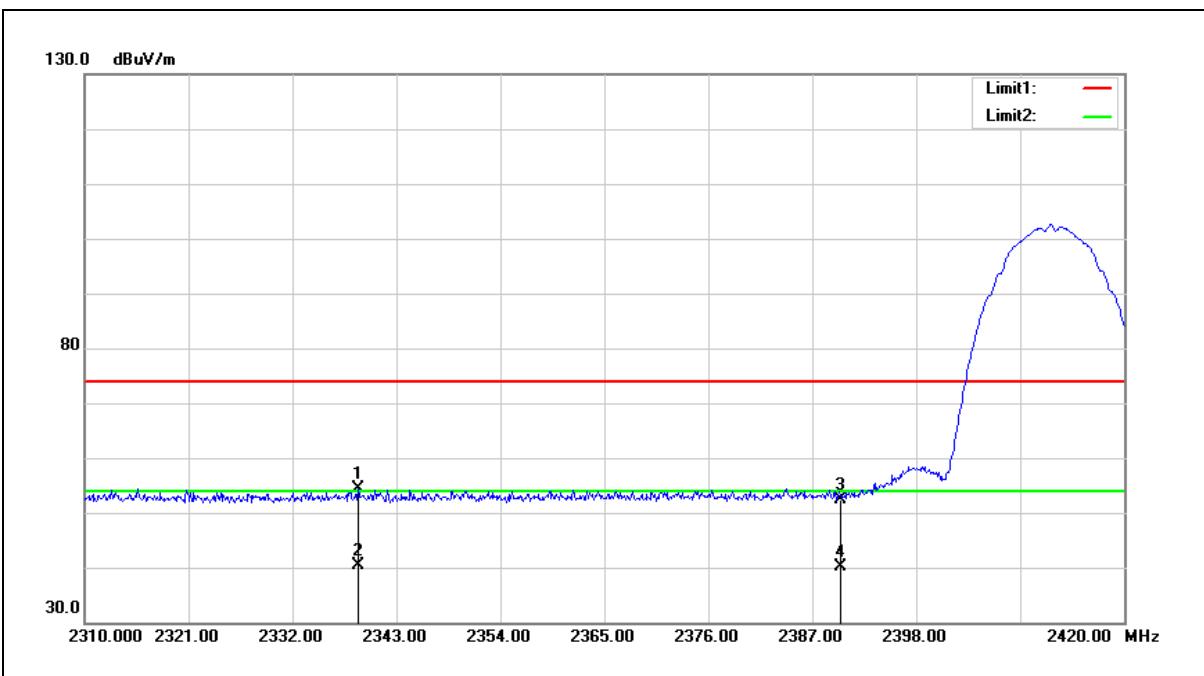
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2321.660	57.77	-3.43	54.34	74.00	-19.66	peak
2	2321.660	43.10	-3.43	39.67	54.00	-14.33	Avg
3	2390.000	54.86	-3.18	51.68	74.00	-22.32	peak

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:	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		



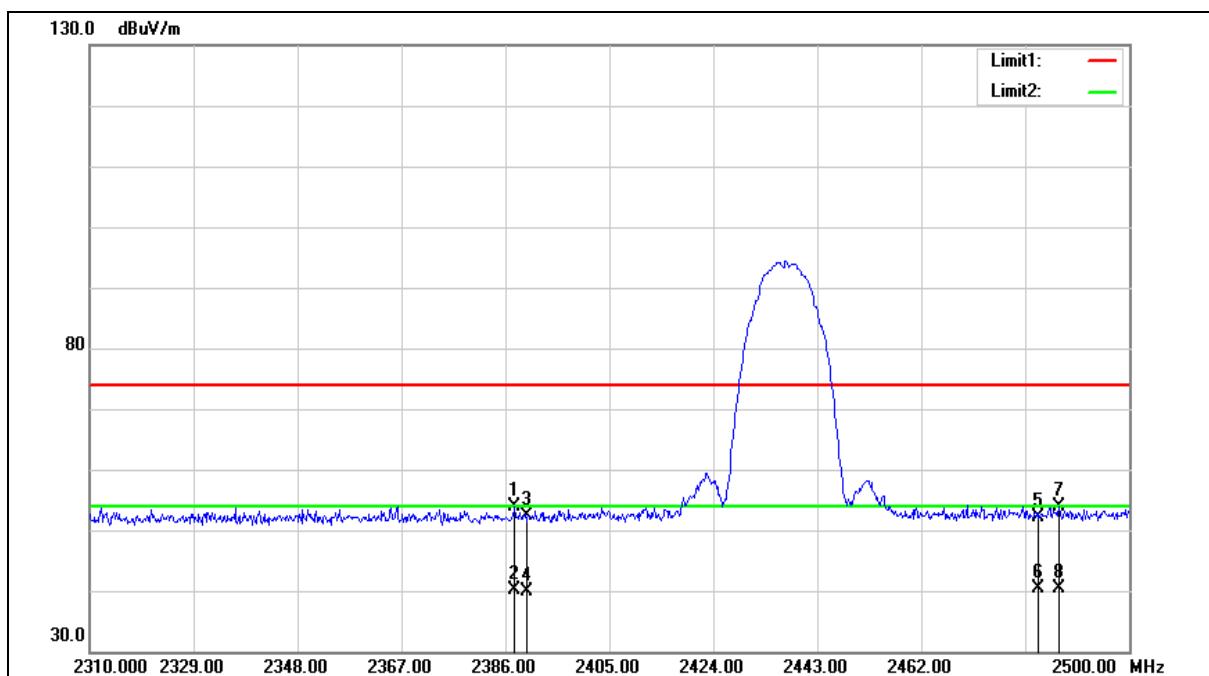
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2338.930	57.85	-3.37	54.48	74.00	-19.52	peak
2	2338.930	43.72	-3.37	40.35	54.00	-13.65	Avg
3	2390.000	55.68	-3.18	52.50	74.00	-21.50	peak
4	2390.000	43.39	-3.18	40.21	54.00	-13.79	Avg

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.:	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		

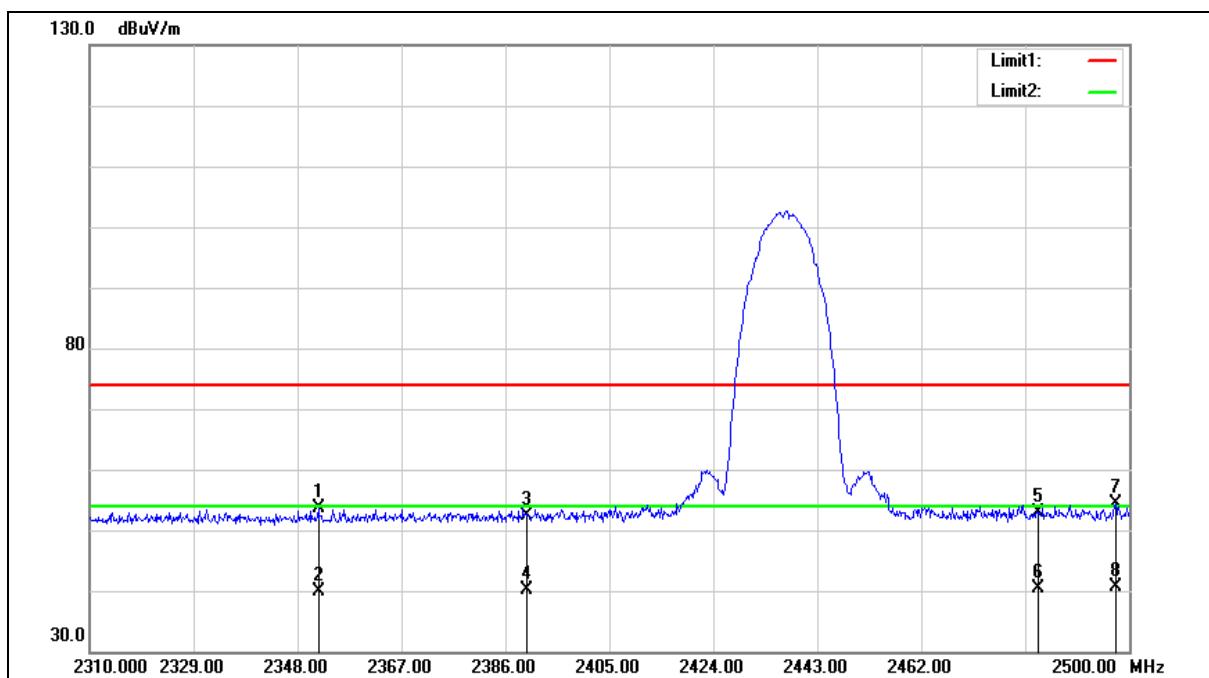
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.710	57.07	-3.18	53.89	74.00	-20.11	peak
2	2387.710	43.23	-3.18	40.05	54.00	-13.95	AVG
3	2390.000	55.52	-3.18	52.34	74.00	-21.66	peak
4	2390.000	43.15	-3.18	39.97	54.00	-14.03	AVG
5	2483.500	54.90	-2.83	52.07	74.00	-21.93	peak
6	2483.500	43.16	-2.83	40.33	54.00	-13.67	AVG
7	2487.080	56.66	-2.82	53.84	74.00	-20.16	peak
8	2487.080	43.20	-2.82	40.38	54.00	-13.62	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		

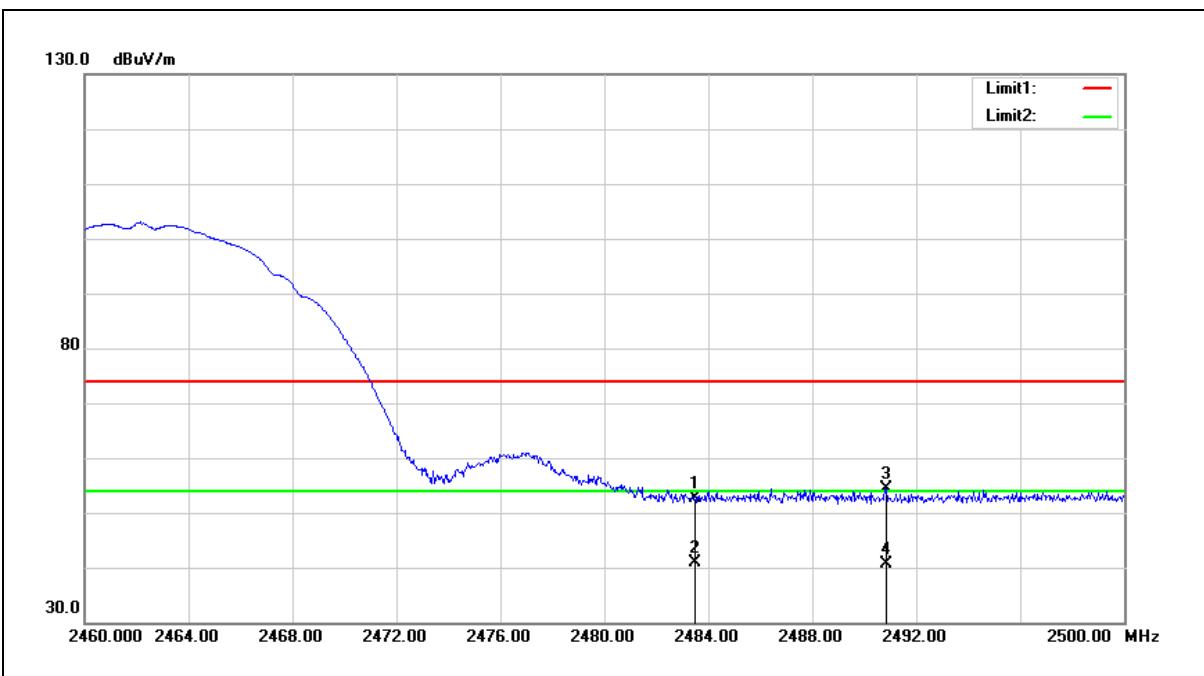
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2351.800	56.98	-3.32	53.66	74.00	-20.34	peak
2	2351.800	43.21	-3.32	39.89	54.00	-14.11	AVG
3	2390.000	55.58	-3.18	52.40	74.00	-21.60	peak
4	2390.000	43.38	-3.18	40.20	54.00	-13.80	AVG
5	2483.500	55.80	-2.83	52.97	74.00	-21.03	peak
6	2483.500	43.24	-2.83	40.41	54.00	-13.59	AVG
7	2497.530	57.16	-2.78	54.38	74.00	-19.62	peak
8	2497.530	43.35	-2.78	40.57	54.00	-13.43	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		



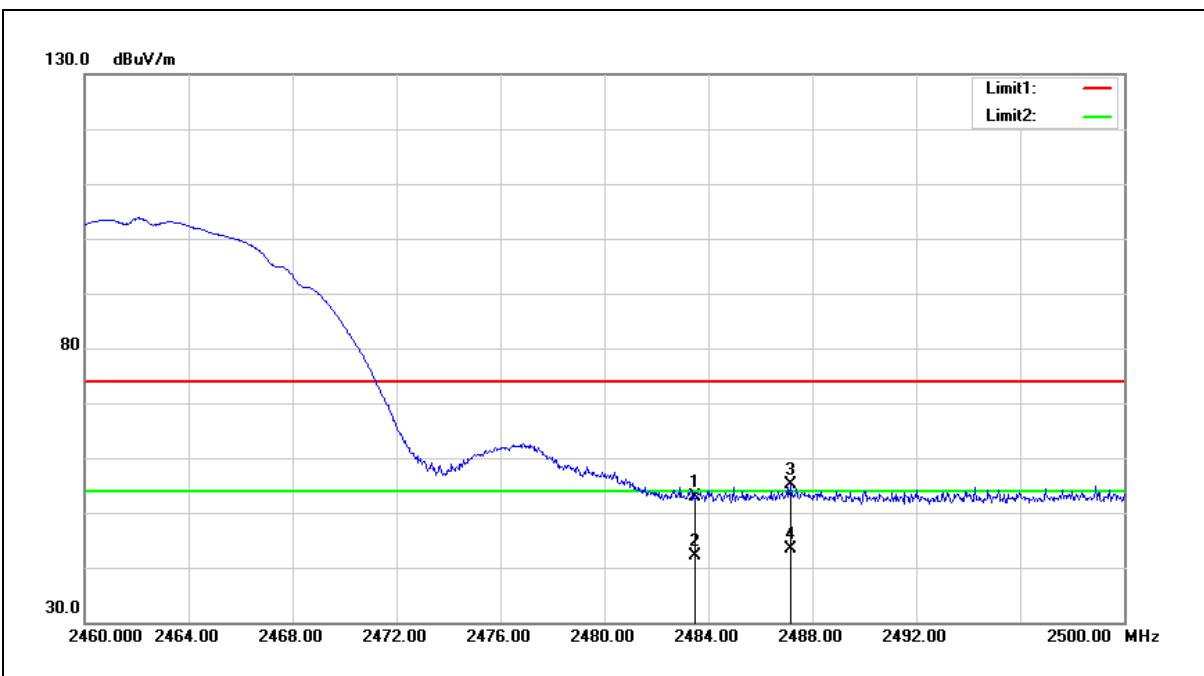
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	55.39	-2.83	52.56	74.00	-21.44	peak
2	2483.500	43.80	-2.83	40.97	54.00	-13.03	Avg
3	2490.840	57.10	-2.80	54.30	74.00	-19.70	peak
4	2490.840	43.37	-2.80	40.57	54.00	-13.43	Avg

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		



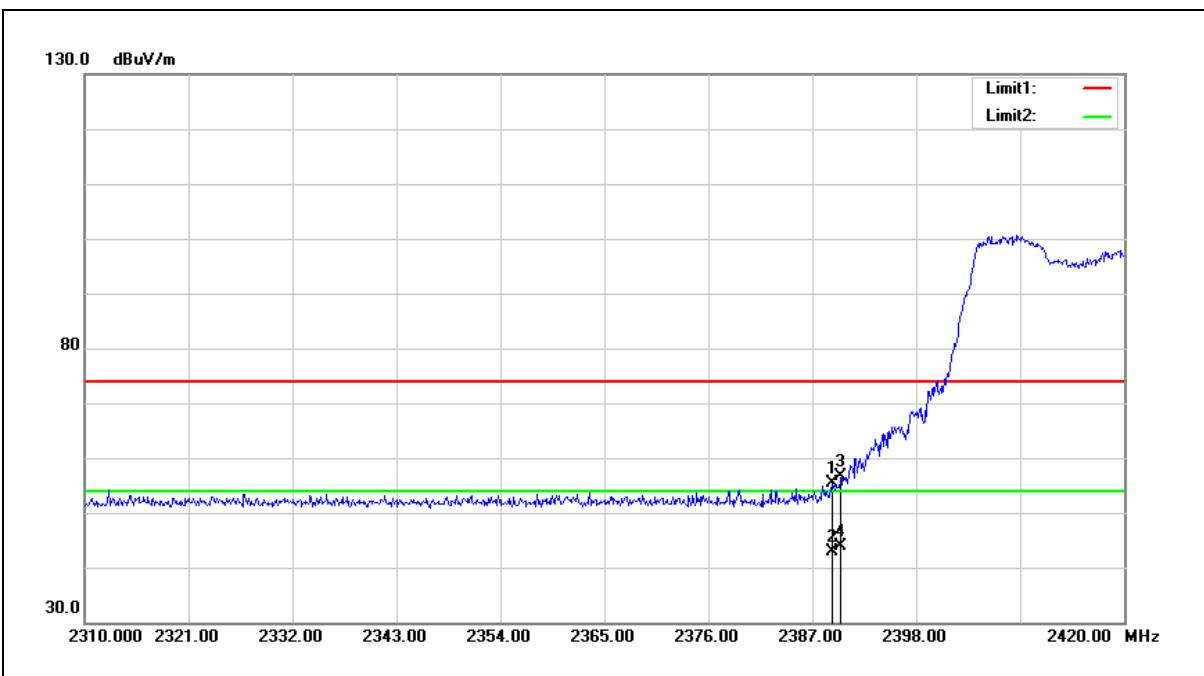
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	55.79	-2.83	52.96	74.00	-21.04	peak
2	2483.500	44.85	-2.83	42.02	54.00	-11.98	Avg
3	2487.160	58.02	-2.82	55.20	74.00	-18.80	peak
4	2487.160	46.19	-2.82	43.37	54.00	-10.63	Avg

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		



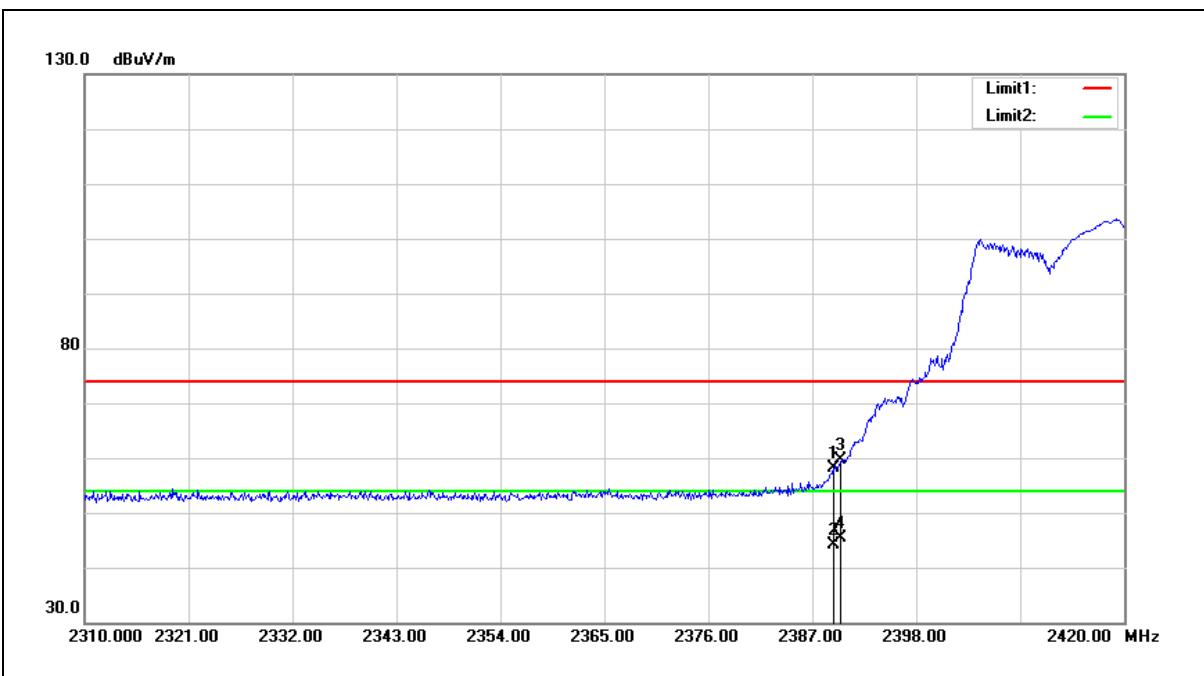
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.090	58.64	-3.18	55.46	74.00	-18.54	peak
2	2389.090	46.06	-3.18	42.88	54.00	-11.12	Avg
3	2390.000	59.78	-3.18	56.60	74.00	-17.40	peak
4	2390.000	47.07	-3.18	43.89	54.00	-10.11	Avg

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		



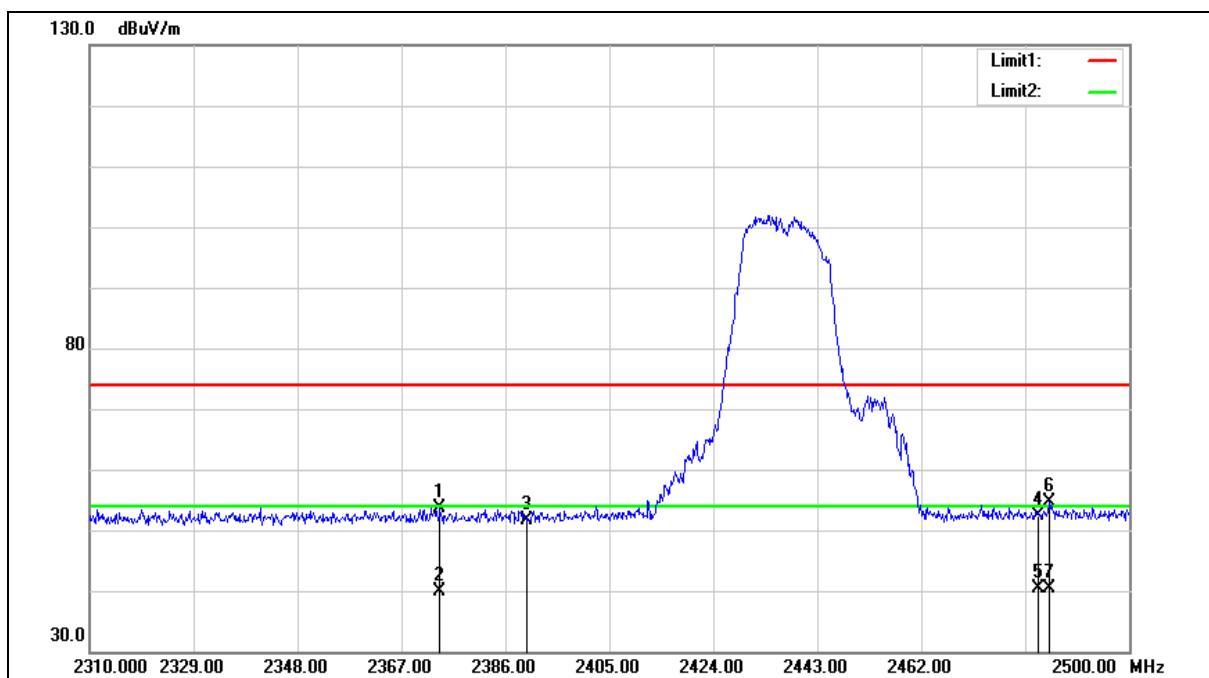
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.200	61.21	-3.18	58.03	74.00	-15.97	peak
2	2389.200	47.33	-3.18	44.15	54.00	-9.85	Avg
3	2390.000	62.73	-3.18	59.55	74.00	-14.45	peak
4	2390.000	48.48	-3.18	45.30	54.00	-8.70	Avg

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		

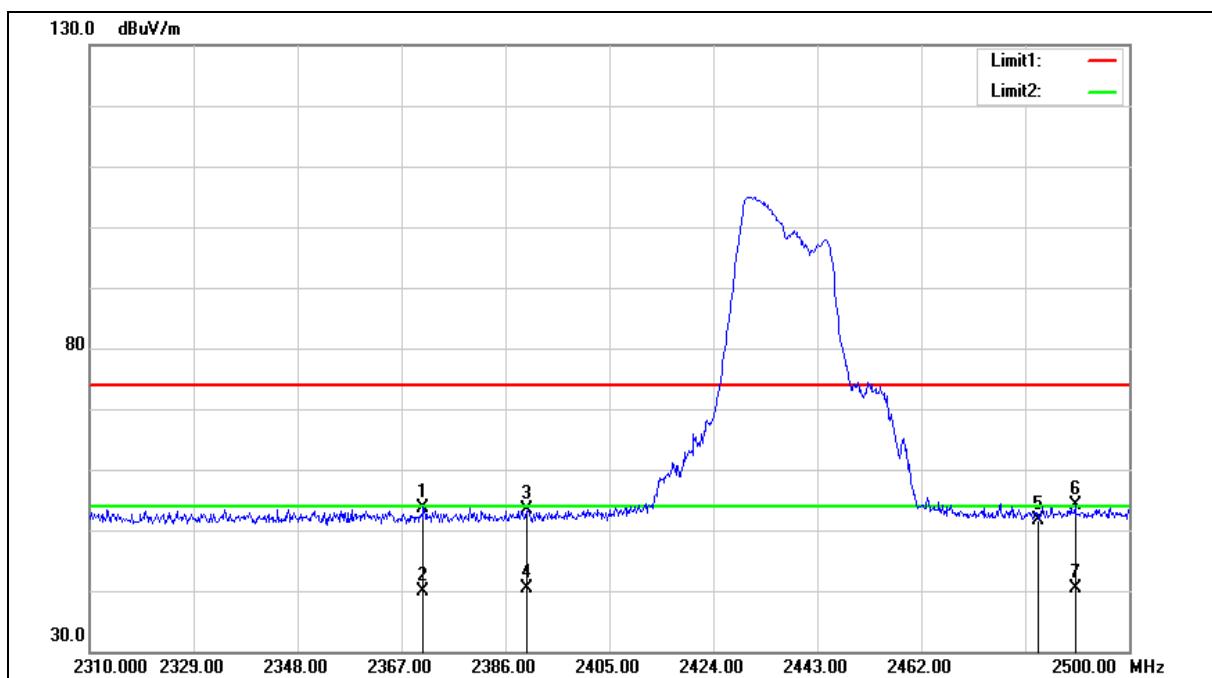
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2374.030	56.82	-3.24	53.58	74.00	-20.42	peak
2	2374.030	43.18	-3.24	39.94	54.00	-14.06	AVG
3	2390.000	54.70	-3.18	51.52	74.00	-22.48	peak
4	2483.500	55.19	-2.83	52.36	74.00	-21.64	peak
5	2483.500	43.28	-2.83	40.45	54.00	-13.55	AVG
6	2485.370	57.50	-2.83	54.67	74.00	-19.33	peak
7	2485.370	43.32	-2.83	40.49	54.00	-13.51	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:	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		

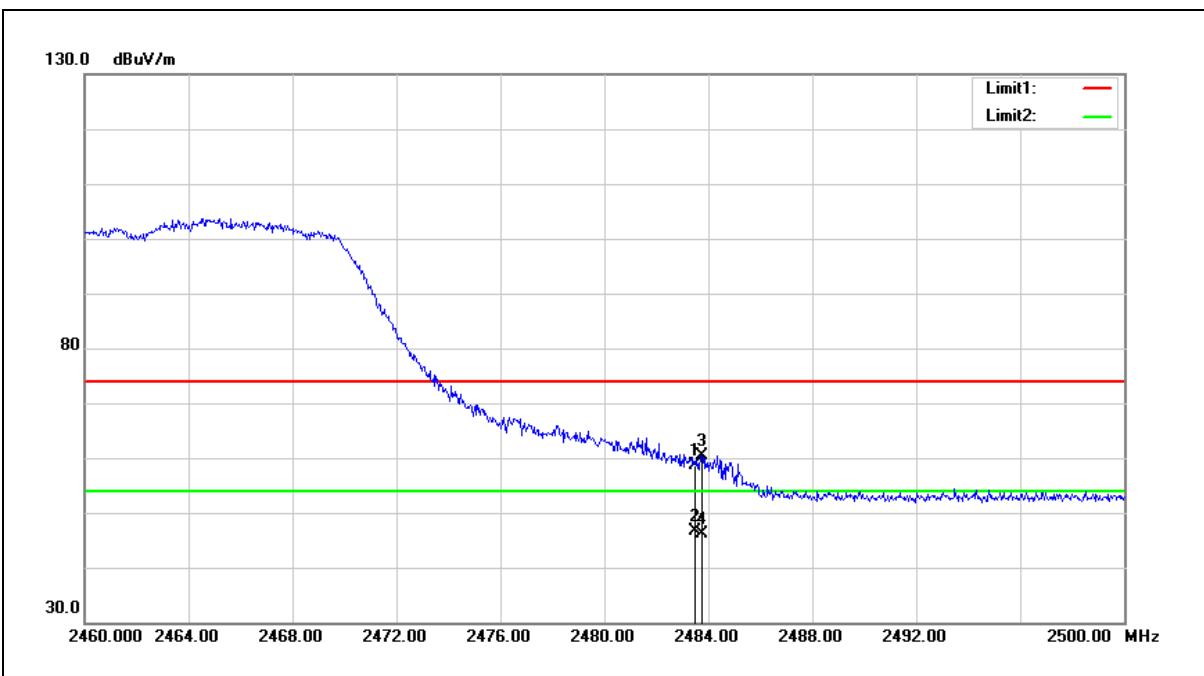
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2370.990	57.00	-3.25	53.75	74.00	-20.25	peak
2	2370.990	43.19	-3.25	39.94	54.00	-14.06	AVG
3	2390.000	56.46	-3.18	53.28	74.00	-20.72	peak
4	2390.000	43.44	-3.18	40.26	54.00	-13.74	AVG
5	2483.500	54.47	-2.83	51.64	74.00	-22.36	peak
6	2490.120	56.92	-2.81	54.11	74.00	-19.89	peak
7	2490.120	43.31	-2.81	40.50	54.00	-13.50	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:	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		



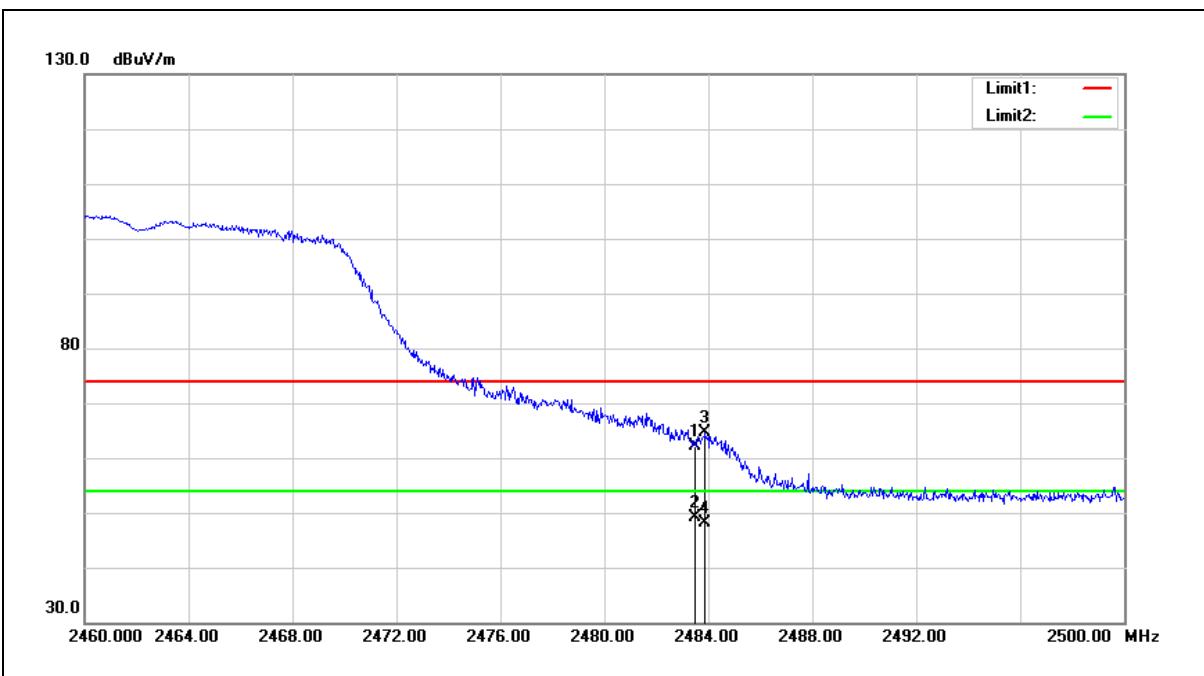
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	61.55	-2.83	58.72	74.00	-15.28	peak
2	2483.500	49.37	-2.83	46.54	54.00	-7.46	Avg
3	2483.760	63.17	-2.83	60.34	74.00	-13.66	peak
4	2483.760	48.89	-2.83	46.06	54.00	-7.94	Avg

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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



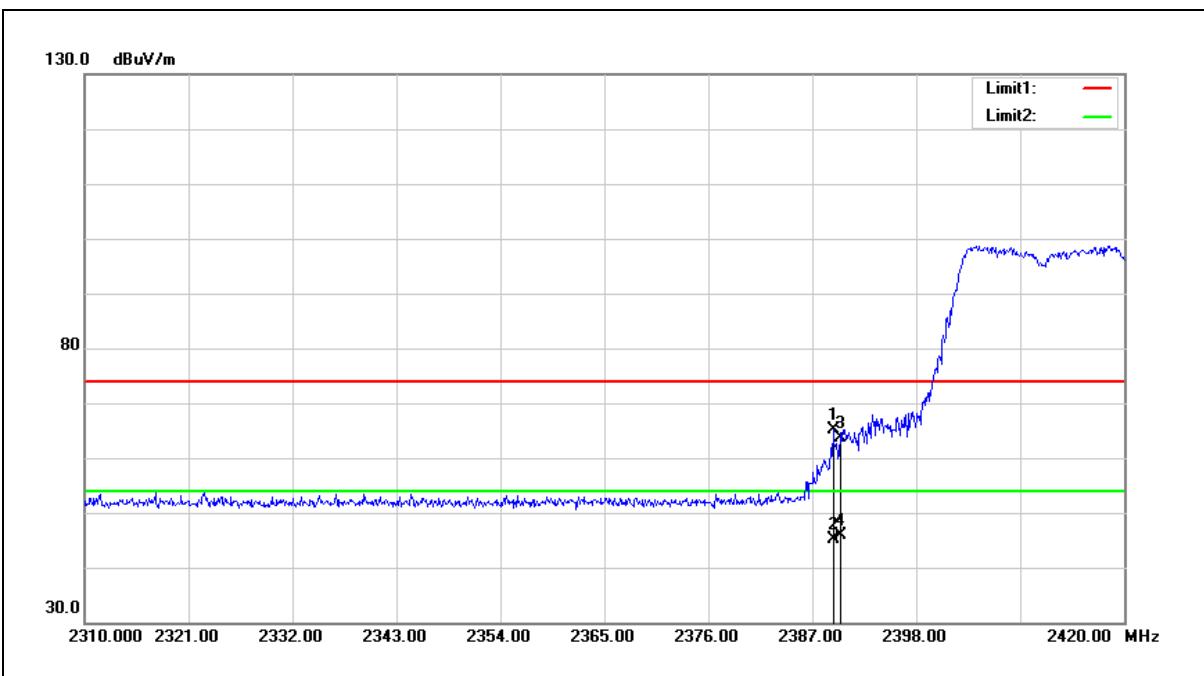
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	65.01	-2.83	62.18	74.00	-11.82	peak
2	2483.500	52.03	-2.83	49.20	54.00	-4.80	Avg
3	2483.880	67.36	-2.83	64.53	74.00	-9.47	peak
4	2483.880	51.02	-2.83	48.19	54.00	-5.81	Avg

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		



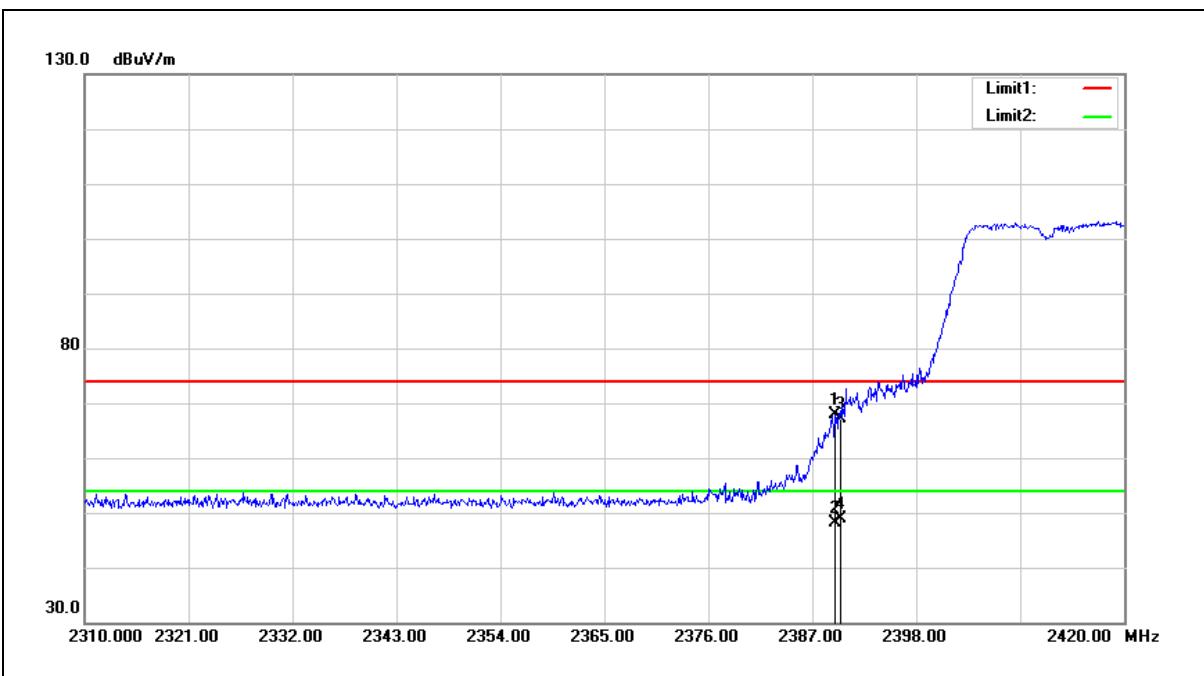
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.200	68.23	-3.18	65.05	74.00	-8.95	peak
2	2389.200	48.38	-3.18	45.20	54.00	-8.80	Avg
3	2390.000	66.87	-3.18	63.69	74.00	-10.31	peak
4	2390.000	48.94	-3.18	45.76	54.00	-8.24	Avg

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		



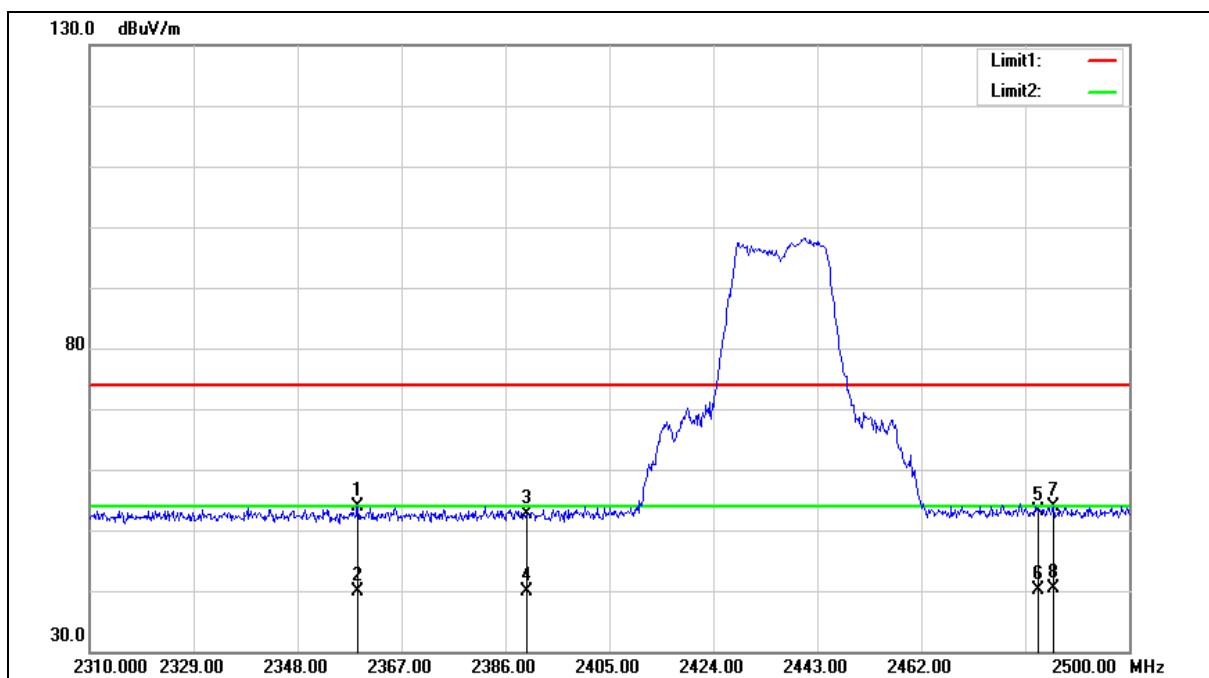
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.420	70.95	-3.18	67.77	74.00	-6.23	peak
2	2389.420	51.40	-3.18	48.22	54.00	-5.78	Avg
3	2390.000	70.21	-3.18	67.03	74.00	-6.97	peak
4	2390.000	52.13	-3.18	48.95	54.00	-5.05	Avg

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		

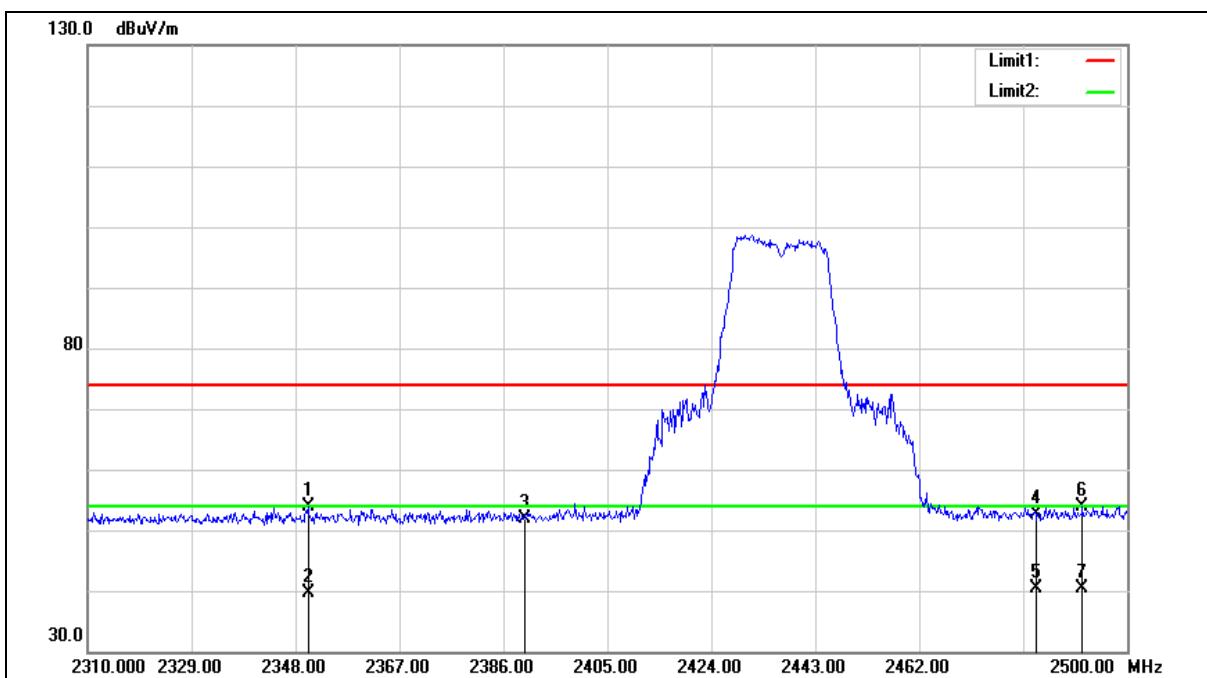
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2359.020	57.14	-3.30	53.84	74.00	-20.16	peak
2	2359.020	43.11	-3.30	39.81	54.00	-14.19	AVG
3	2390.000	55.76	-3.18	52.58	74.00	-21.42	peak
4	2390.000	43.05	-3.18	39.87	54.00	-14.13	AVG
5	2483.500	55.96	-2.83	53.13	74.00	-20.87	peak
6	2483.500	42.98	-2.83	40.15	54.00	-13.85	AVG
7	2486.130	56.79	-2.83	53.96	74.00	-20.04	peak
8	2486.130	43.19	-2.83	40.36	54.00	-13.64	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		

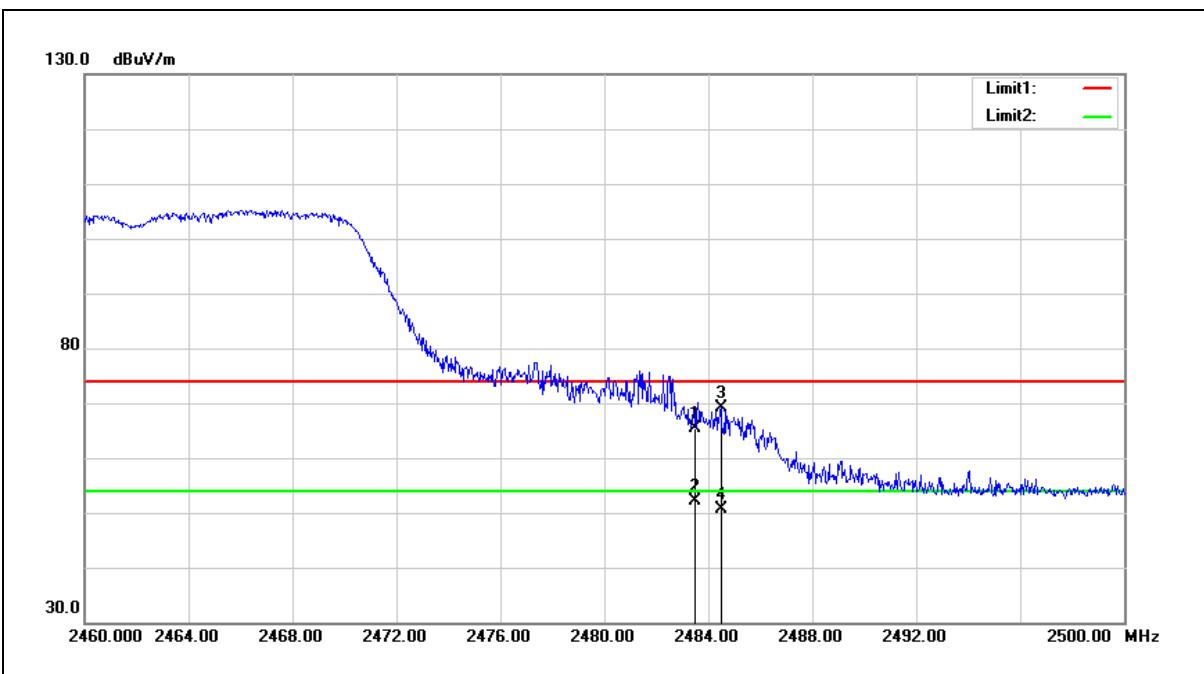
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2350.280	57.11	-3.33	53.78	74.00	-20.22	peak
2	2350.280	43.08	-3.33	39.75	54.00	-14.25	AVG
3	2390.000	55.13	-3.18	51.95	74.00	-22.05	peak
4	2483.500	55.38	-2.83	52.55	74.00	-21.45	peak
5	2483.500	43.24	-2.83	40.41	54.00	-13.59	AVG
6	2491.830	56.69	-2.80	53.89	74.00	-20.11	peak
7	2491.830	43.21	-2.80	40.41	54.00	-13.59	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:	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		



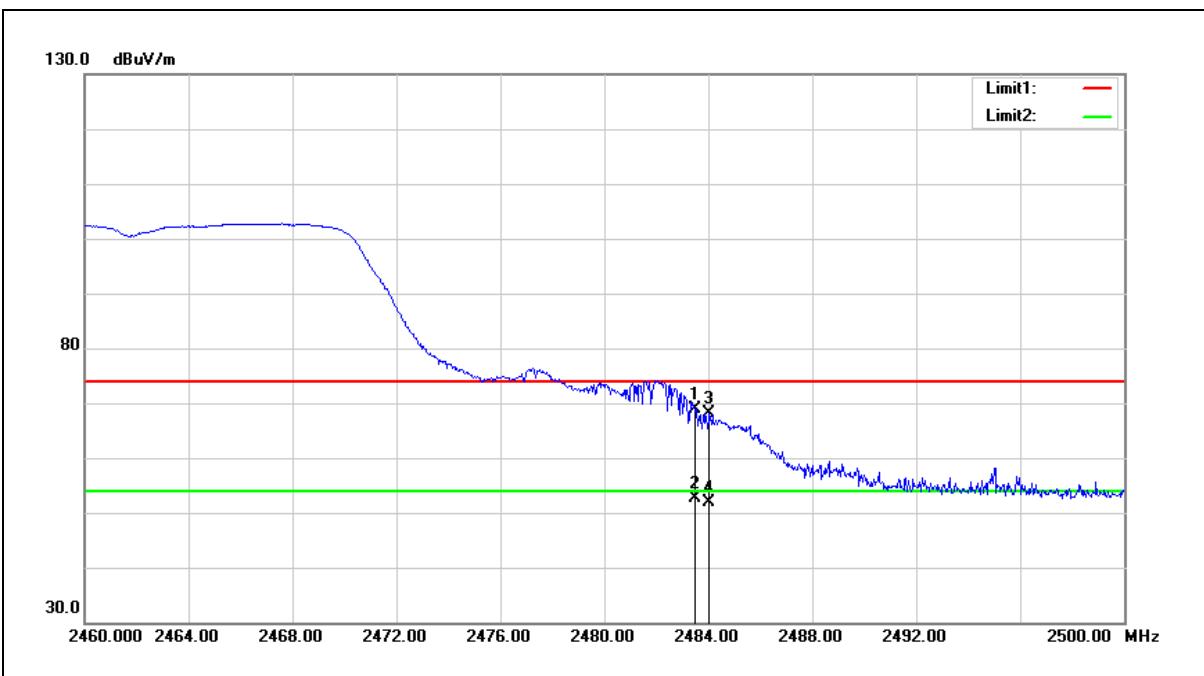
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	66.61	-1.31	65.30	74.00	-8.70	peak
2	2483.500	53.34	-1.31	52.03	54.00	-1.97	Avg
3	2484.480	70.44	-1.31	69.13	74.00	-4.87	peak
4	2484.480	51.84	-1.31	50.53	54.00	-3.47	Avg

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		



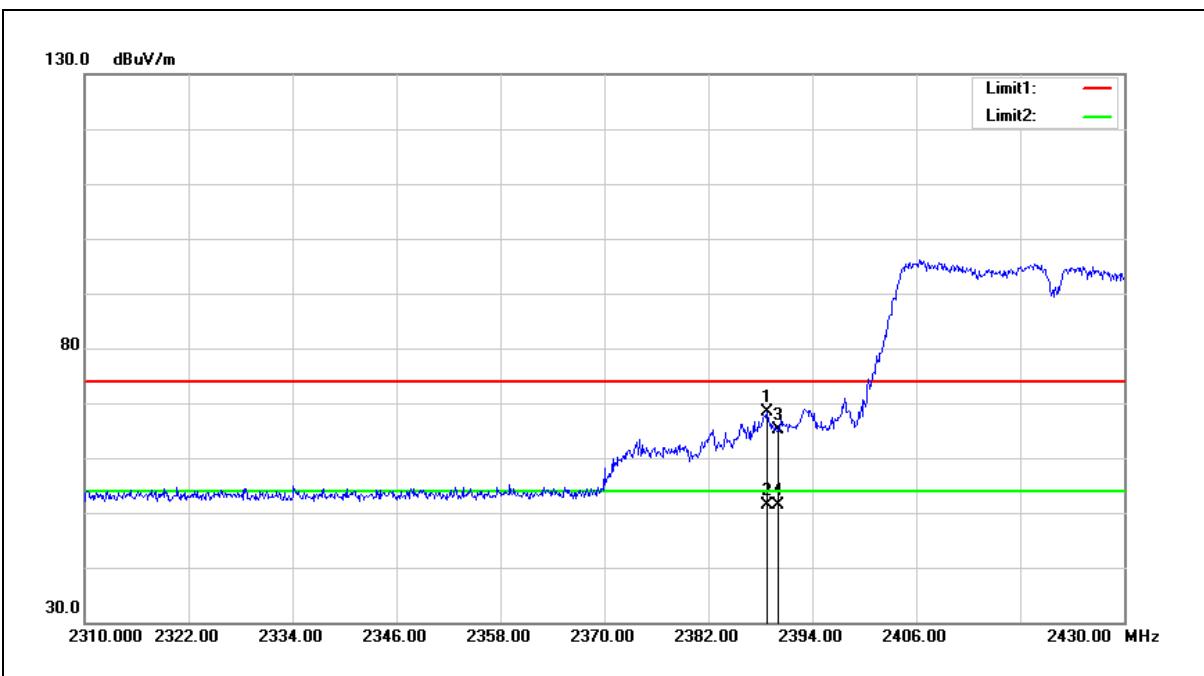
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	70.25	-1.31	68.94	74.00	-5.06	peak
2	2483.500	53.96	-1.31	52.65	54.00	-1.35	Avg
3	2484.040	69.45	-1.31	68.14	74.00	-5.86	peak
4	2484.040	53.08	-1.31	51.77	54.00	-2.23	Avg

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		



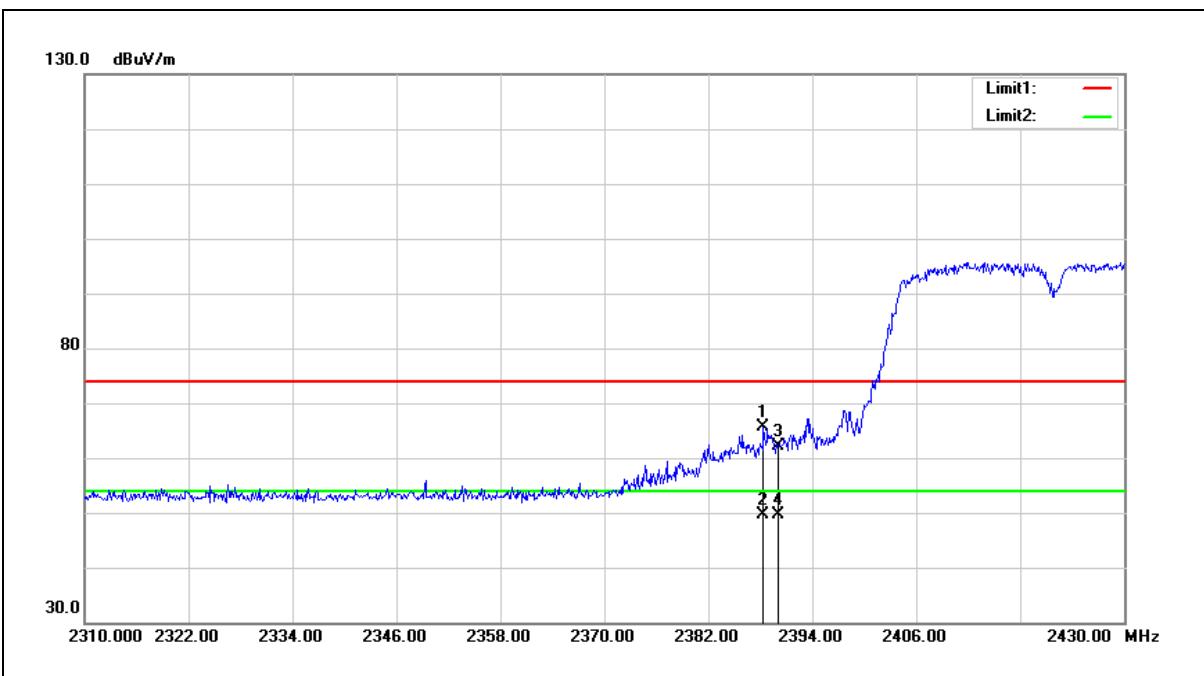
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.720	70.00	-1.66	68.34	74.00	-5.66	peak
2	2388.720	53.00	-1.66	51.34	54.00	-2.66	Avg
3	2390.000	66.70	-1.66	65.04	74.00	-8.96	peak
4	2390.000	53.07	-1.66	51.41	54.00	-2.59	Avg

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		



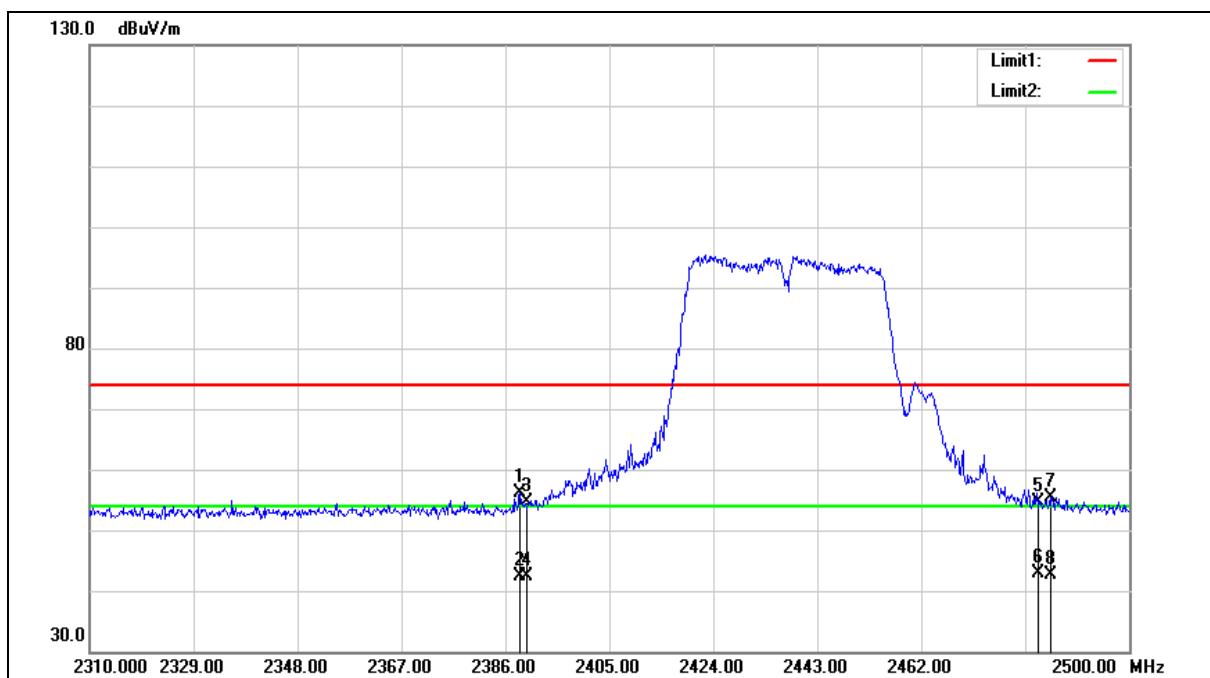
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.360	67.33	-1.66	65.67	74.00	-8.33	peak
2	2388.360	51.19	-1.66	49.53	54.00	-4.47	Avg
3	2390.000	63.82	-1.66	62.16	74.00	-11.84	peak
4	2390.000	51.21	-1.66	49.55	54.00	-4.45	Avg

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		

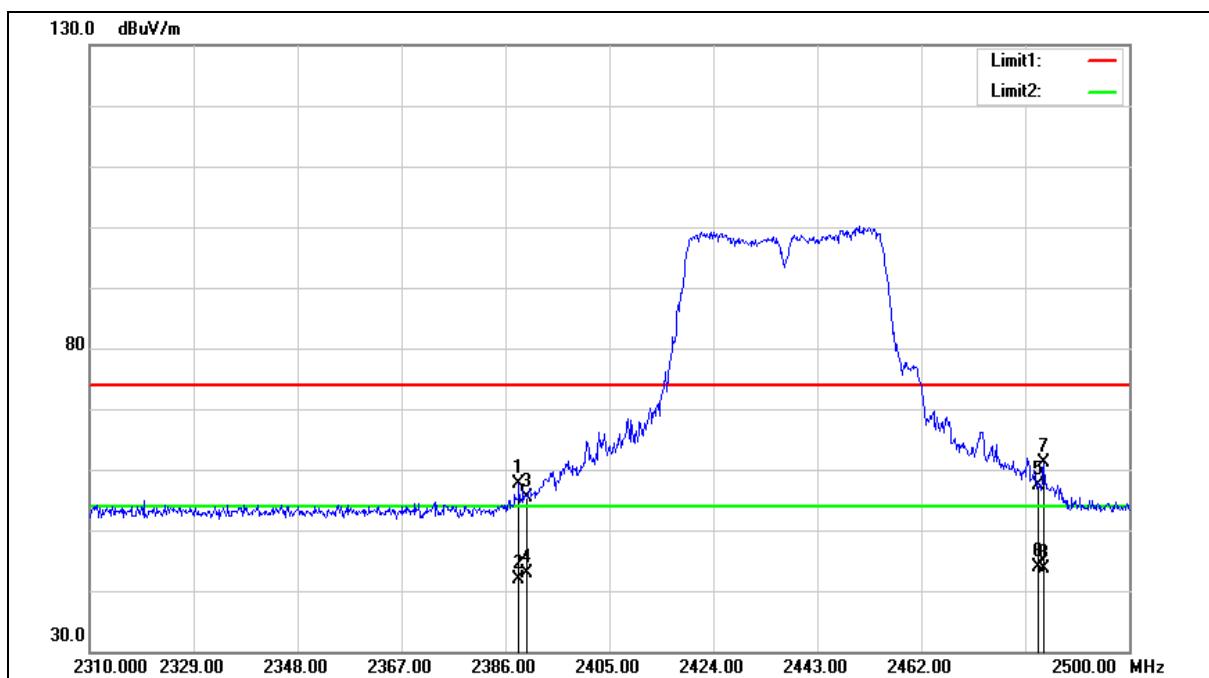
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.660	57.78	-1.66	56.12	74.00	-17.88	peak
2	2388.660	43.98	-1.66	42.32	54.00	-11.68	AVG
3	2390.000	56.40	-1.66	54.74	74.00	-19.26	peak
4	2390.000	44.04	-1.66	42.38	54.00	-11.62	AVG
5	2483.500	56.06	-1.31	54.75	74.00	-19.25	peak
6	2483.500	44.13	-1.31	42.82	54.00	-11.18	AVG
7	2485.560	56.78	-1.31	55.47	74.00	-18.53	peak
8	2485.560	43.87	-1.31	42.56	54.00	-11.44	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		

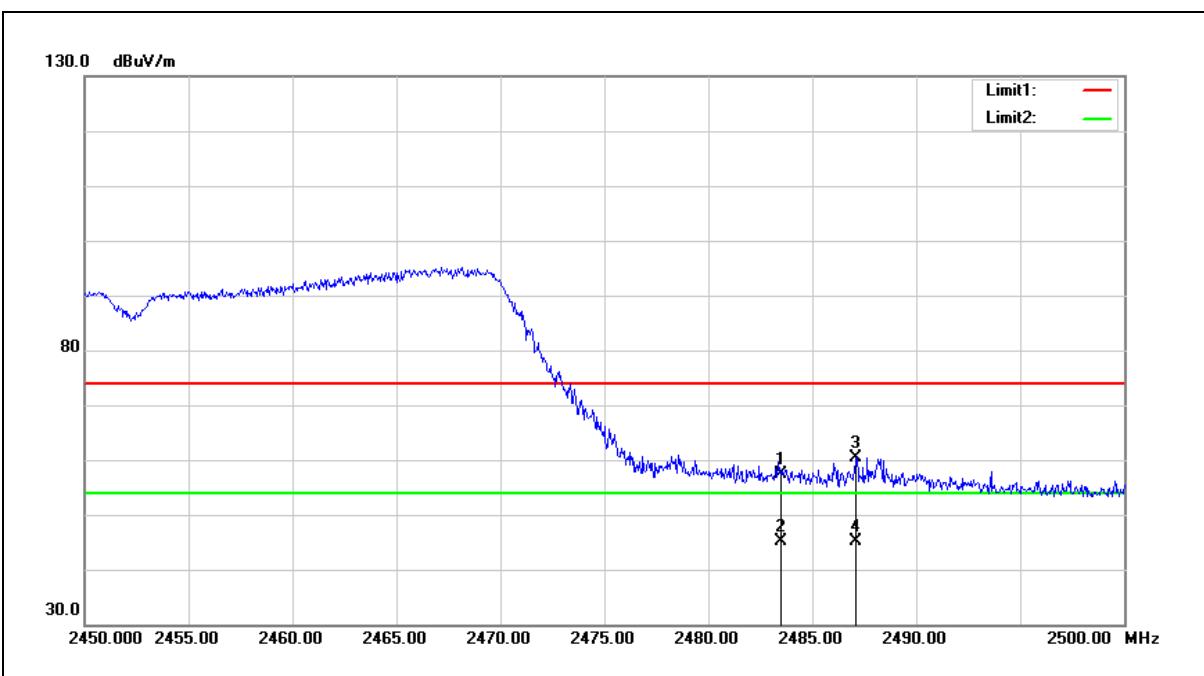
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.470	59.37	-1.66	57.71	74.00	-16.29	peak
2	2388.470	43.54	-1.66	41.88	54.00	-12.12	AVG
3	2390.000	56.95	-1.66	55.29	74.00	-18.71	peak
4	2390.000	44.49	-1.66	42.83	54.00	-11.17	AVG
5	2483.500	58.71	-1.31	57.40	74.00	-16.60	peak
6	2483.500	45.18	-1.31	43.87	54.00	-10.13	AVG
7	2484.420	62.36	-1.31	61.05	74.00	-12.95	peak
8	2484.420	44.86	-1.31	43.55	54.00	-10.45	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		



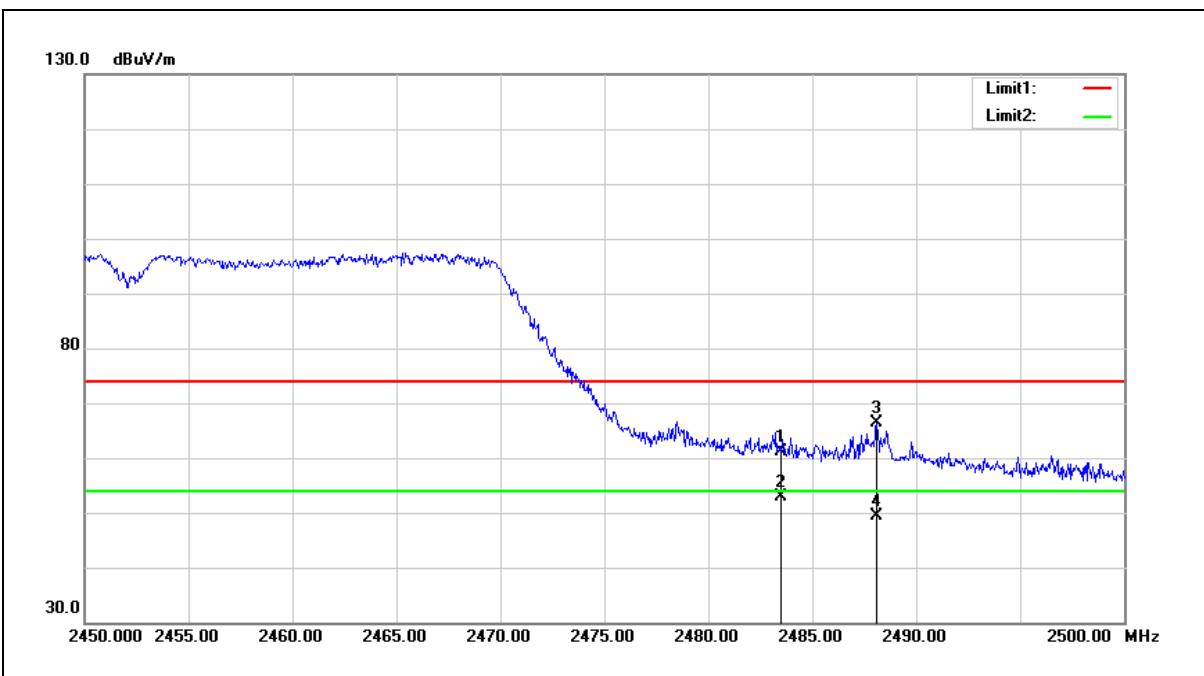
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	58.59	-1.31	57.28	74.00	-16.72	peak
2	2483.500	46.56	-1.31	45.25	54.00	-8.75	Avg
3	2487.100	61.79	-1.30	60.49	74.00	-13.51	peak
4	2487.100	46.45	-1.30	45.15	54.00	-8.85	Avg

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:	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	62.47	-1.31	61.16	74.00	-12.84	peak
2	2483.500	54.08	-1.31	52.77	54.00	-1.23	Avg
3	2488.100	67.62	-1.29	66.33	74.00	-7.67	peak
4	2488.100	50.73	-1.29	49.44	54.00	-4.56	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.