

RF Test Report

Applicant : Tomofun Co., Ltd.
Product Type : Furbo Dog Camera
Trade Name : Furbo
Model Number : Furbo2.5T
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
ANSI C63.10:2013
Received Date : May 19, 2020
Test Period : Jun. 03 ~ Jul. 04, 2020
Issued Date : Jul. 10, 2020

Issued by

A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330
Frequency Range : 9 kHz to 40 GHz
Test Firm MRA designation number: TW0010

Note:

1. The test results are valid only for samples provided by customers and under the test conditions described in this report.
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3. The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.



Revision History

Rev.	Issued Date	Revisions	Revised By
00	Jul. 10, 2020	Initial Issue	Snow Wang



Verification of Compliance

Applicant : Tomofun Co., Ltd.
Product Type : Furbo Dog Camera
Trade Name : Furbo
Model Number : Furbo2.5T
FCC ID : 2AIBVTFFBV3
EUT Rated Voltage : DC 5 V, 2 A
Test Voltage : 120 Vac / 60 Hz
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
ANSI C63.10:2013
Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330
<http://www.atl-lab.com.tw/e-index.htm>



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

Approved By

: Fly Lu

(Manager)

(Fly Lu)

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1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
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	-----

Decision Rule

- ☒ Uncertainty is not included.
- ☐ Uncertainty is included.

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 15.247 Meas Guidance v05r02	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
KDB 662911 D01 v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	150 kHz ~ 30 MHz	2.68
Radiated Emission	9 kHz ~ 30 MHz	2.14
	30 MHz ~ 1000 MHz	4.99
	1000 MHz ~ 18000 MHz	4.99
	18000 MHz ~ 26500 MHz	4.23
	26500 MHz ~ 40000 MHz	4.39
Conducted Output Power	0.92 dB	
RF Bandwidth	4.79 %	
Power Spectral Density	0.92 dB	

2 EUT Description

Applicant	Tomofun Co., Ltd. 4F., No.178, Sec. 3 , Minquan E,Rd.,Songshan Dist Taipei City 105, Taiwan			
Manufacturer	Chicony Electronics (Thailand) Co., Ltd. 700/60 Moo 1 T.Bankao A.Phanthong Chonburi Province 20160			
Product Type	Furbo Dog Camera			
Trade Name	Furbo			
Model Number	Furbo2.5T			
FCC ID	2AIBVTFFBV3			
Operate Freq. Band	Frequency Range (MHz)	Modulation	Channel Bandwidth	Data Rate 400 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 72.2 Mbps
Antenna information	Type		Max. Gain (dBi)	
	FPC Antenna		1.18	
Antenna Delivery	Reference section 3.1			
Operate Temp. Range	0 ~ +35 ℃			

Frequency Band	Max. RF Output Power (W)
IEEE 802.11b	0.095
IEEE 802.11g	0.471
IEEE 802.11n 2.4 GHz 20 MHz	0.454

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

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.

Test Mode	ANT-0
Mode 2	V
Mode 3	V
Mode 4	V

Test Mode	Antenna Delivery	Data Rate (Mbps)	Test Channel
Mode 2	1TX	1	1, 6, 11
Mode 3	1TX	6	1, 6, 11
Mode 4	1TX	6.5	1, 6, 11

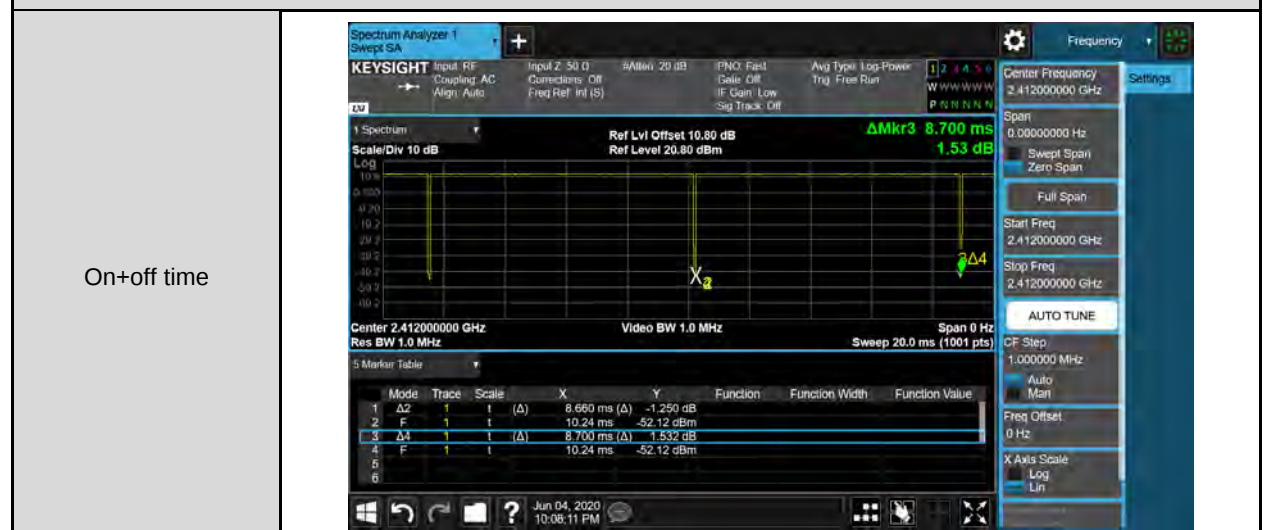


Duty cycle

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	8.660	8.700	0.995	0.020	0.010
Mode 3	2412.0	2.090	2.170	0.963	0.163	0.478
Mode 4	2412.0	1.345	1.365	0.985	0.064	0.010

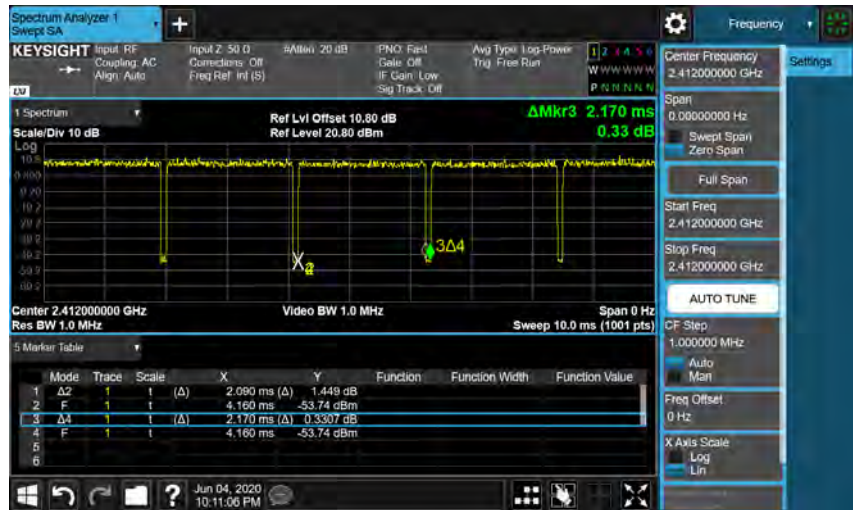
Duty Cycle Graphs

Mode 2: IEEE 802.11b Continuous TX mode



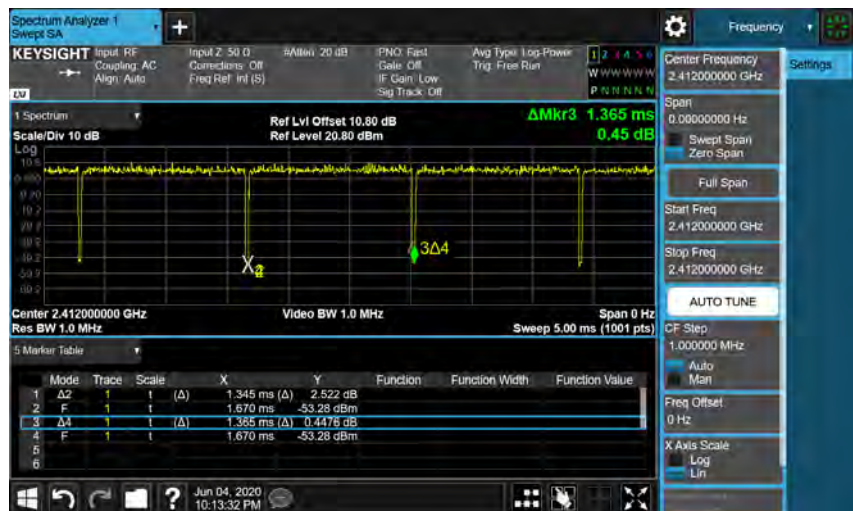
Mode 3: IEEE 802.11g Continuous TX mode

On+off time



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

On+off time





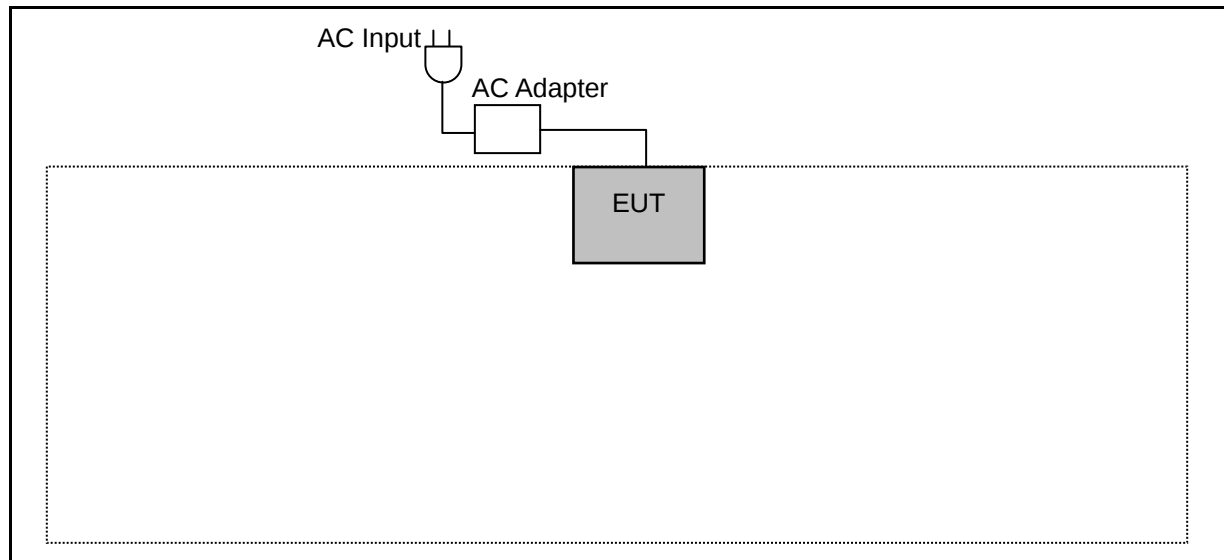
3.2. EUT Test Step

1.	Setup the EUT shown on "Configuration of Test System Details".
2.	Turn on the power of all equipment.
3.	Turn on TX function.
4.	EUT run test program.

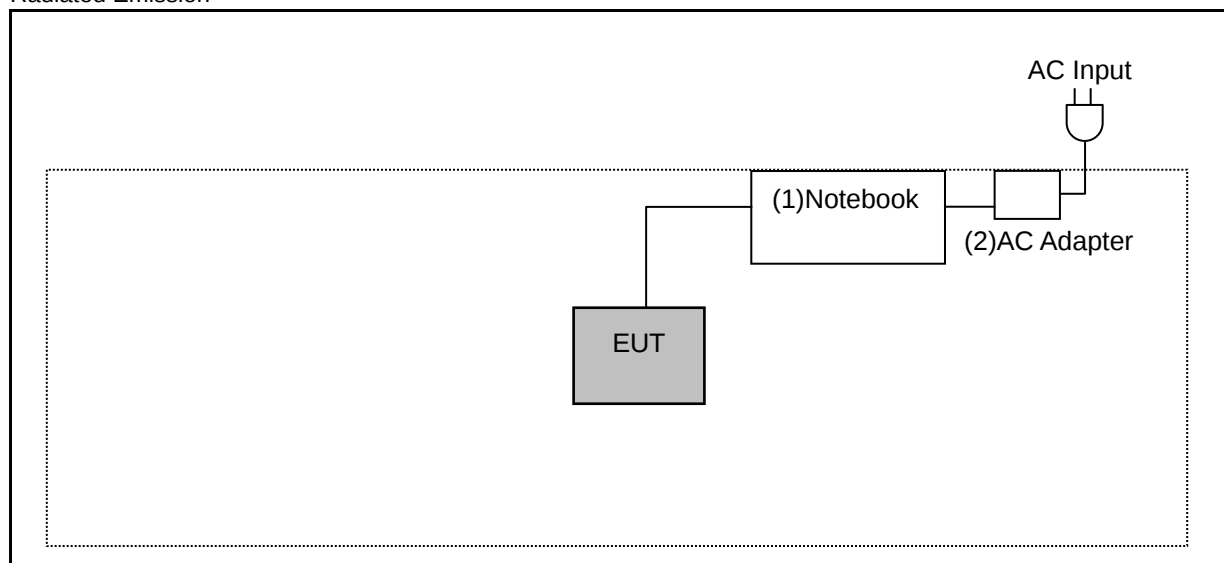
Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

3.3. Configuration of Test System Details

Conducted Emissions



Radiated Emission



Devices Description					
	Product	Manufacturer	Model Number	Serial Number	Remark
(1)	Notebook	ASUS	BU400A	D1NXAS148534020	--
(2)	Notebook Adapter	ASUS	EXA1203YH	--	INPUT : AC 100 V to 240 V , 50 Hz / 60 Hz , 1.5 A OUTPUT : DC 19 V , 3.42 A Non-shielded, 0.8 m



3.4. Test Instruments

For Conducted Emission

Test Period: Jul. 03, 2020

Testing Engineer: Louis Shen

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	05/25/2020	1 year
LISN	R&S	ENV216	101040	03/23/2020	1 year
LISN	R&S	ENV216	101041	04/06/2020	1 year
RF Cable	Woken	00100D1380194M	TE-02-03	05/25/2020	1 year

For Radiated Emissions

Test Period: Jun. 03 ~ Jul. 04, 2020

Testing Engineer: Ricky Liu / Marc Yeh

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	01/13/2020	1 year
Pre Amplifier (1~26.5 GHz)	Agilent	8449B	3008A02237	10/18/2019	1 year
Pre Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	01/15/2020	1 year
Pre Amplifier (1~26.5 GHz)	EMCI	EMC2654045	980028	08/23/2019	1 year
Broadband Antenna	Schwarzbeck	VULB9168	416	10/23/2019	1 year
Horn Antenna (1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	08/22/2019	1 year
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	03/27/2020	1 year
RF Cable	EMCI	EMC104-N-N-6000	TE01-1	02/20/2020	1 year
Microwave Cable	EMCI	EMC104-SM-SM-1 3000	170814	10/29/2019	1 year
Microwave Cable	EMCI	EMC102-KM-KM-1 4000	151001	02/20/2020	1 year



For Conducted

Test Period: Jun. 04 ~ Jun. 23, 2020

Testing Engineer: Paul Chiu / Louis Shen

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (10 Hz~26.5 GHz)	KEYSIGHT	N9010B	MY5907141	03/16/2020	1 year
Power Sensor	Agilent	N1921A	MY45241957	12/11/2019	1 year
Power Meter	Agilent	N1911A	MY45101619	12/11/2019	1 year

3.5. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	20-30
Humidity (%RH)	25-75	45-75

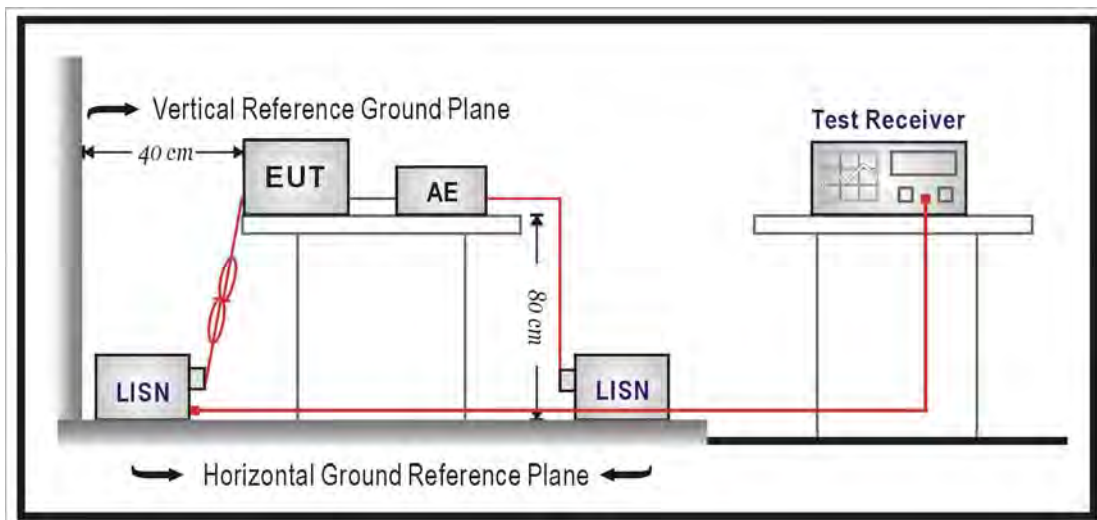
4 Measurement Procedure

4.1. AC Power Line Conducted Emission Measurement

■ Limit

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

■ Test Setup



■ Test Procedure

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

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

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

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All $50\ \Omega$ ports of the LISN shall be resistively terminated into $50\ \Omega$ loads when not connected to the measuring instrument.

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

4.2. Radiated Emission Measurement

■ Limit

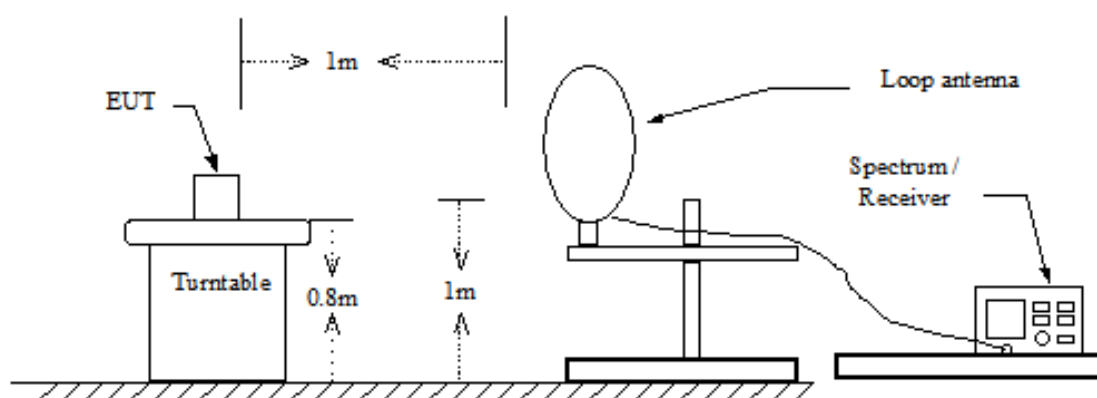
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ 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

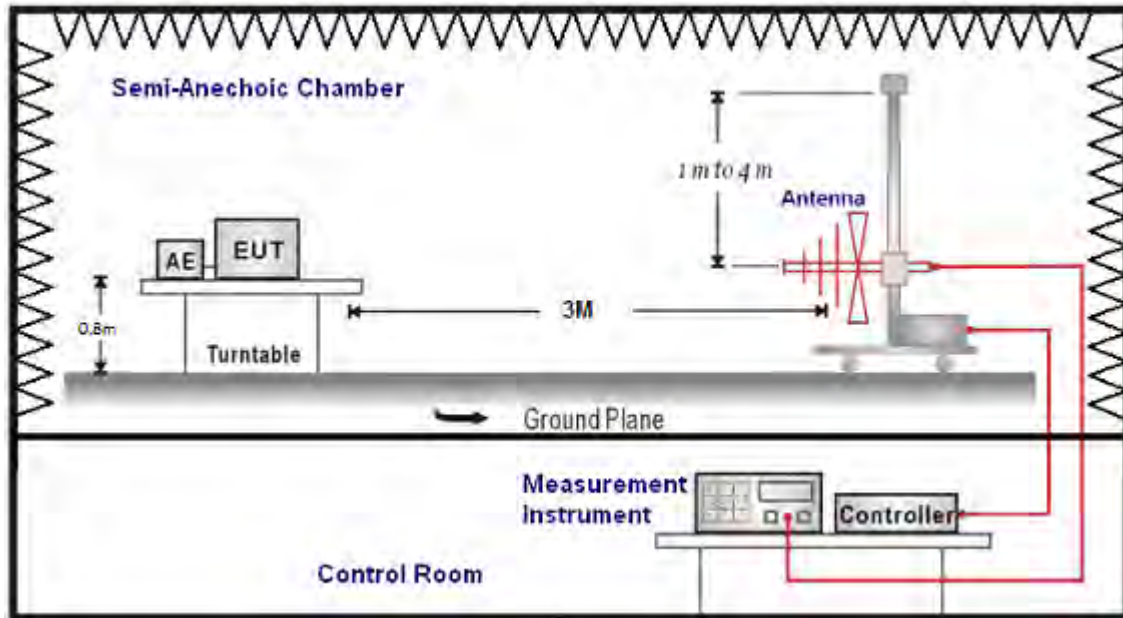
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

■ Setup

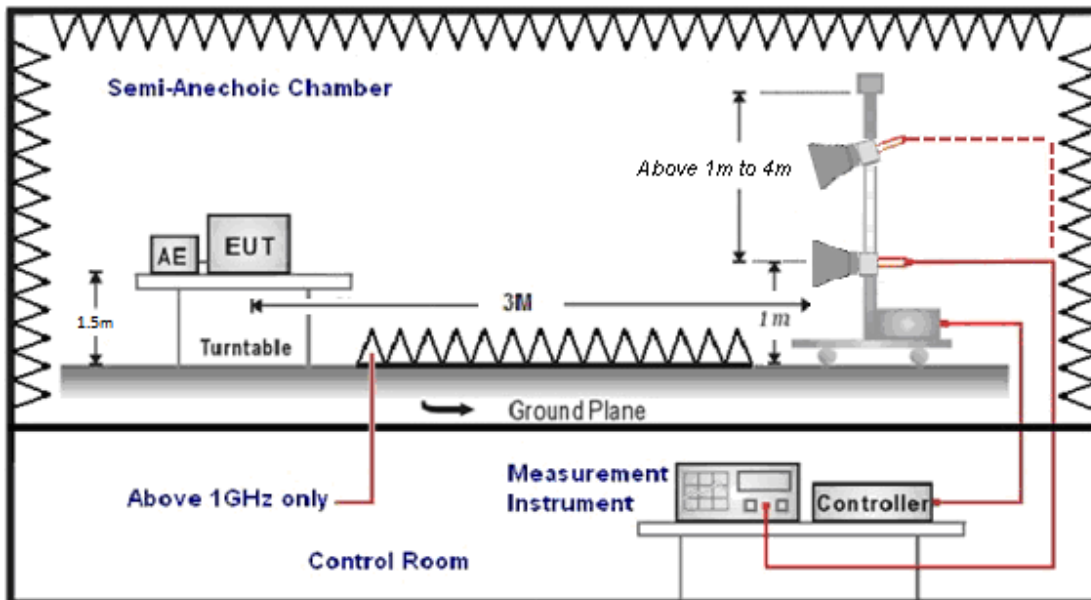
9 kHz ~ 30 MHz



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 three 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 (dBuV) 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 volts per meter (dBuV/m).

The actual field is 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) $\text{Amplitude (dBuV/m)} = \text{FI (dBuV)} + \text{AF (dB)} + \text{CL (dB)} - \text{Gain (dB)}$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

(2) $\text{Actual Amplitude (dBuV/m)} = \text{Amplitude (dBuV)} - \text{Dis (dB)}$

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.

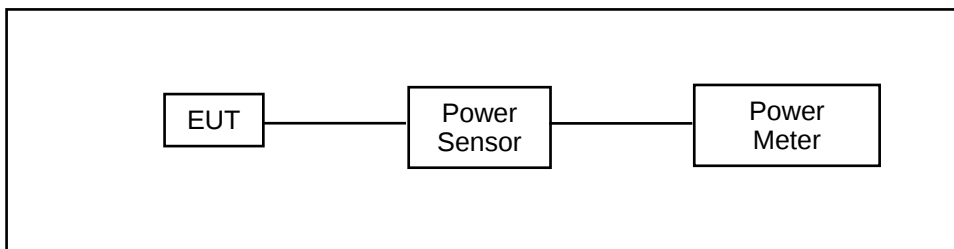
4.3. Maximum Conducted Output Power Measurement

■ 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.

■ Test Setup



■ Test Procedure

The testing follows the Measurement Procedure of ANSI C63.10:2013 section 11.9.2.3.2 Method AVGPM.

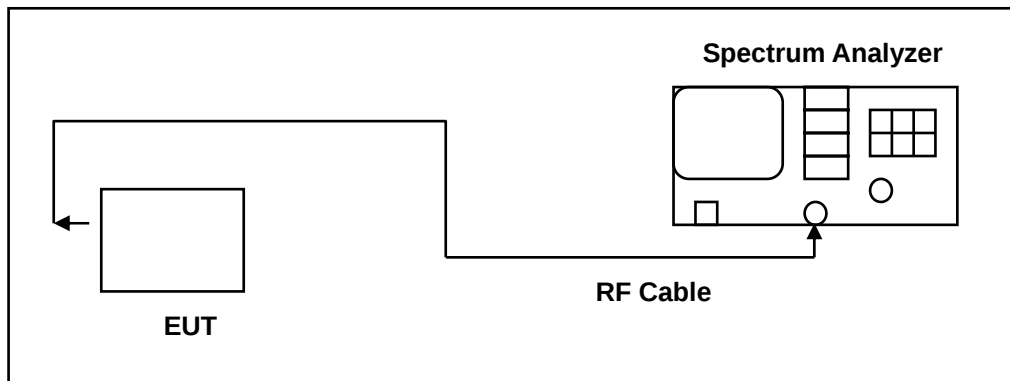
The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor.

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 ANSI C63.10:2013 section 11.8.2 option2 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.

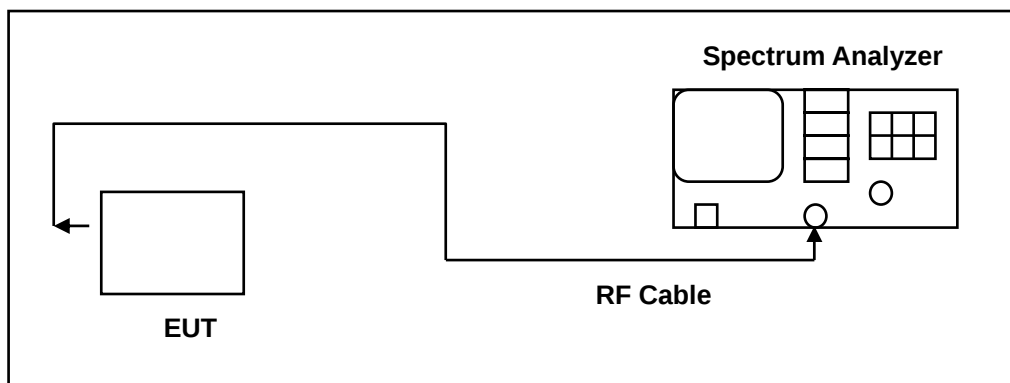
The test was performed at 3 channels (Channel low, middle, high)

4.5. Maximum Power Spectral 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.

■ Test Setup



■ Test Procedure

The EUT tested to DTS test procedure of ANSI C63.10:2013 section 11.10.2 Method PKPSD for compliance to FCC 47CFR 15.247 requirements.

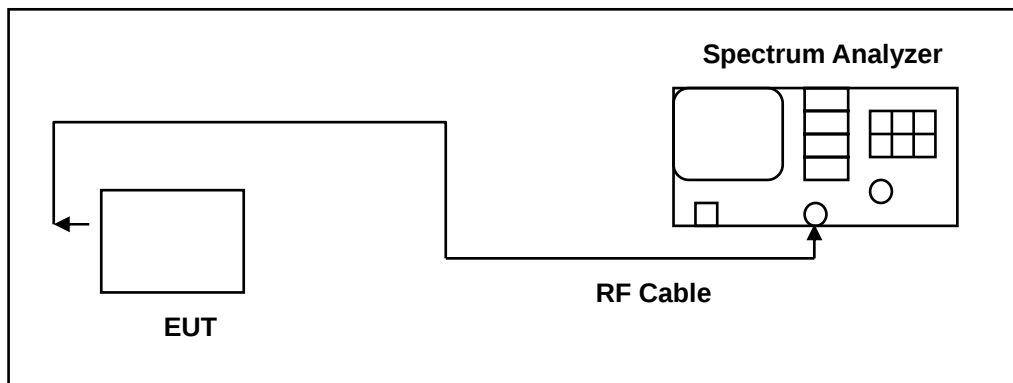
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.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

4.6. Out of Band Conducted Emissions Measurement

■ Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

■ Test Setup



■ Test Procedure

In any 100 kHz bandwidth outside the EUT pass band, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function. All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the pass band. The test was performed at 3 channels.



4.7. Antenna Measurement

■ Limit

For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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

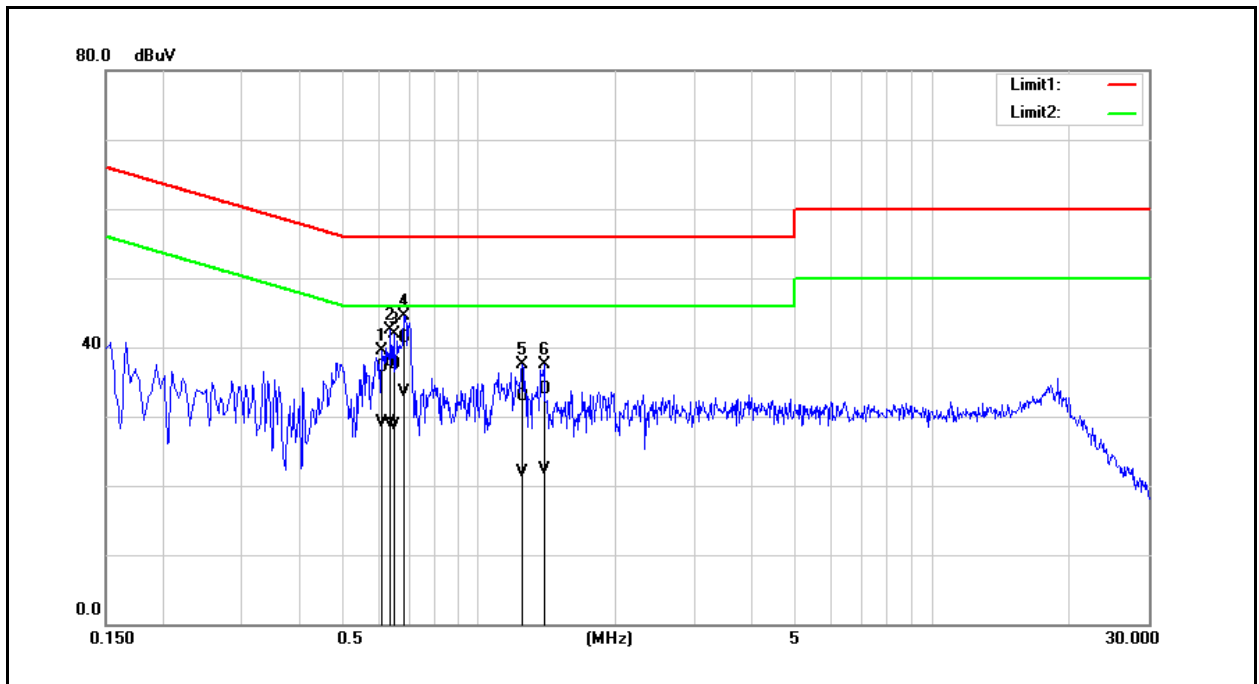
■ Antenna Description

See section 2 – antenna information.

5 Test Results

Annex A. Conducted Emission

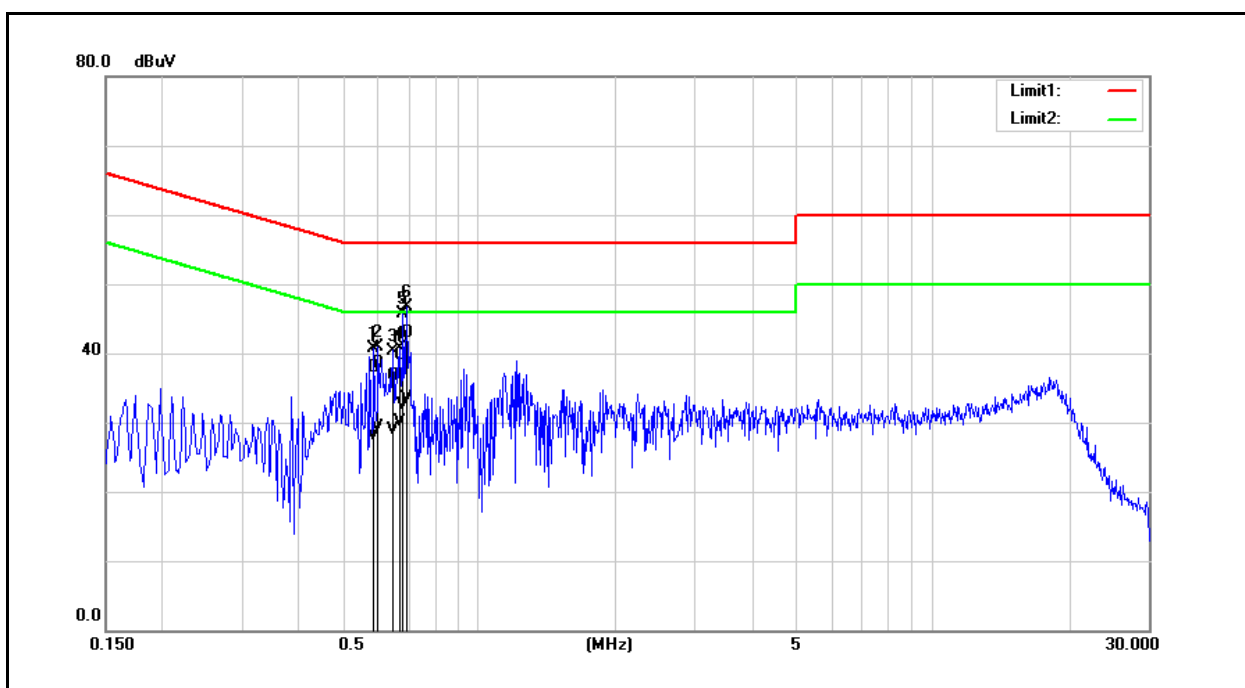
Standard:	FCC Part 15.247	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			



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	0.6100	27.31	19.46	9.71	37.02	29.17	56.00	46.00	-18.98	-16.83	Pass
2	0.6380	28.17	19.46	9.71	37.88	29.17	56.00	46.00	-18.12	-16.83	Pass
3	0.6500	27.88	18.97	9.71	37.59	28.68	56.00	46.00	-18.41	-17.32	Pass
4	0.6860	31.50	23.71	9.71	41.21	33.42	56.00	46.00	-14.79	-12.58	Pass
5	1.2460	23.19	12.26	9.72	32.91	21.98	56.00	46.00	-23.09	-24.02	Pass
6	1.3900	24.13	12.64	9.73	33.86	22.37	56.00	46.00	-22.14	-23.63	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + 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	0.5860	28.27	18.47	9.70	37.97	28.17	56.00	46.00	-18.03	-17.83	Pass
2	0.5980	28.71	19.58	9.70	38.41	29.28	56.00	46.00	-17.59	-16.72	Pass
3	0.6460	26.91	19.30	9.70	36.61	29.00	56.00	46.00	-19.39	-17.00	Pass
4	0.6700	30.03	20.43	9.70	39.73	30.13	56.00	46.00	-16.27	-15.87	Pass
5	0.6820	32.47	22.90	9.70	42.17	32.60	56.00	46.00	-13.83	-13.40	Pass
6	0.6900	33.15	23.87	9.70	42.85	33.57	56.00	46.00	-13.15	-12.43	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + 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

Test Mode	Frequency (MHz)	Average Output Power		Peak Output Power		
		Measurement Results		Measurement Results		Limit
		dBm	W	dBm	W	dBm
Mode 2	2412	17.25	0.053	19.66	0.092	≤ 30
	2437	17.31	0.054	19.76	0.095	≤ 30
	2462	17.29	0.054	19.74	0.094	≤ 30
Mode 3	2412	16.94	0.049	26.66	0.463	≤ 30
	2437	16.98	0.050	26.72	0.470	≤ 30
	2462	17.07	0.051	26.73	0.471	≤ 30
Mode 4	2412	16.51	0.045	25.89	0.388	≤ 30
	2437	16.88	0.049	26.57	0.454	≤ 30
	2462	16.81	0.048	26.35	0.432	≤ 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)
Mode 2	2412	9058	≥ 500
	2437	9066	≥ 500
	2462	9050	≥ 500
Mode 3	2412	15110	≥ 500
	2437	15100	≥ 500
	2462	15120	≥ 500
Mode 4	2412	15120	≥ 500
	2437	15100	≥ 500
	2462	15110	≥ 500

■ Test Graphs

Mode 2: IEEE 802.11b Continuous TX mode

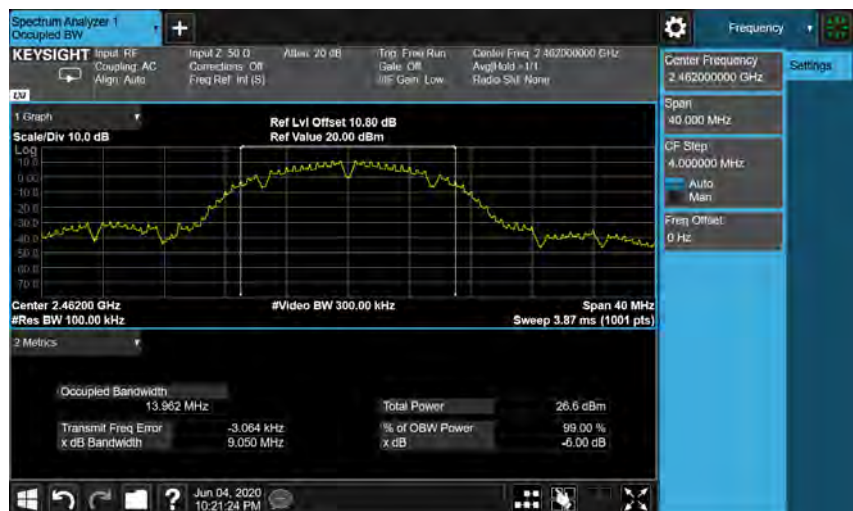
2412 MHz



2437 MHz



2462 MHz

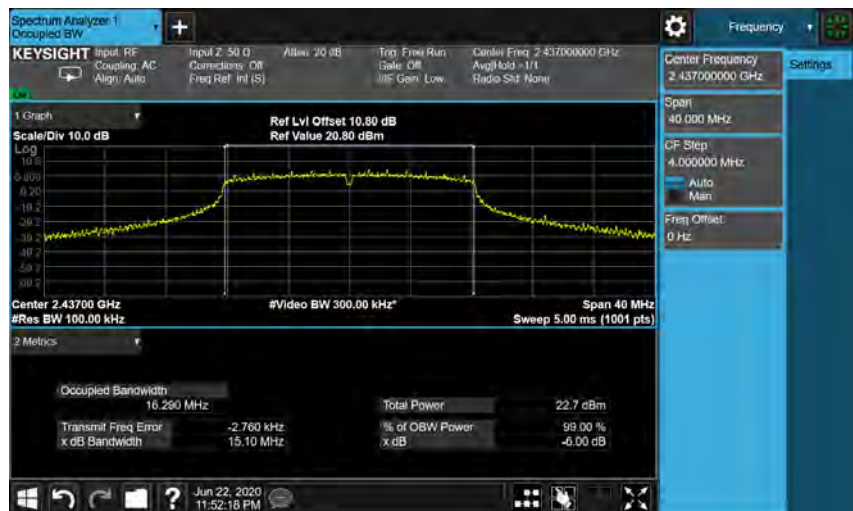


Mode 3: IEEE 802.11g Continuous TX mode

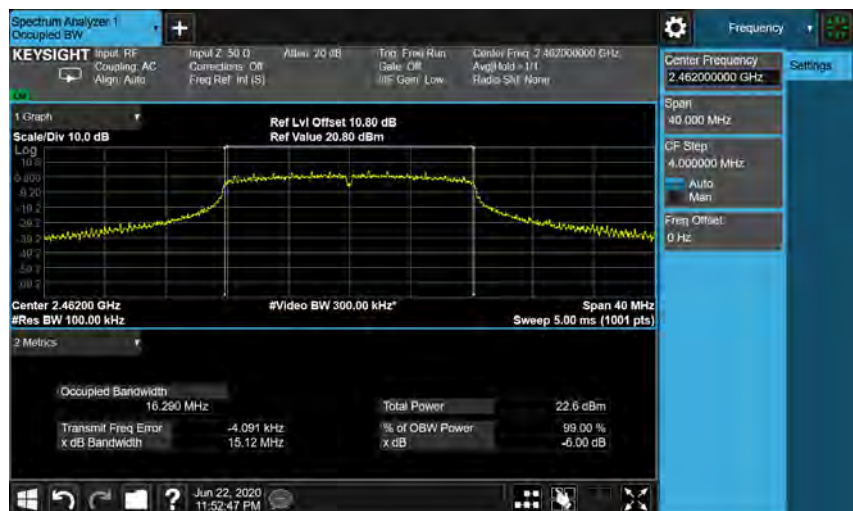
2412 MHz



2437 MHz



2462 MHz



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

2412 MHz



2437 MHz



2462 MHz





Maximum Power Spectral Density Measurement

Test Mode	Frequency (MHz)	Measurement (dBm/3 kHz)	Limit (dBm/ 3 kHz)
Mode 2	2412	-4.280	≤ 8
	2437	-4.100	≤ 8
	2462	-4.070	≤ 8
Mode 3	2412	-7.700	≤ 8
	2437	-6.790	≤ 8
	2462	-7.520	≤ 8
Mode 4	2412	-7.690	≤ 8
	2437	-7.150	≤ 8
	2462	-8.280	≤ 8

Mode 2: IEEE 802.11b Continuous TX mode

2412 MHz



2437 MHz

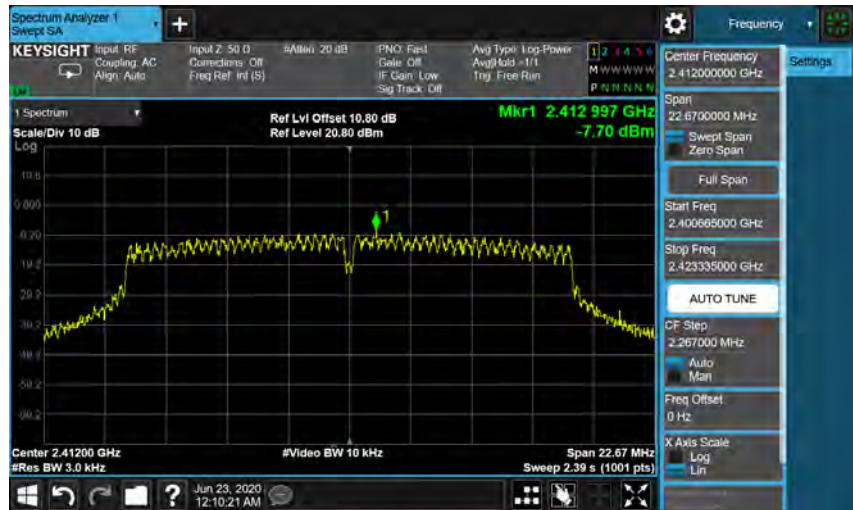


2462 MHz

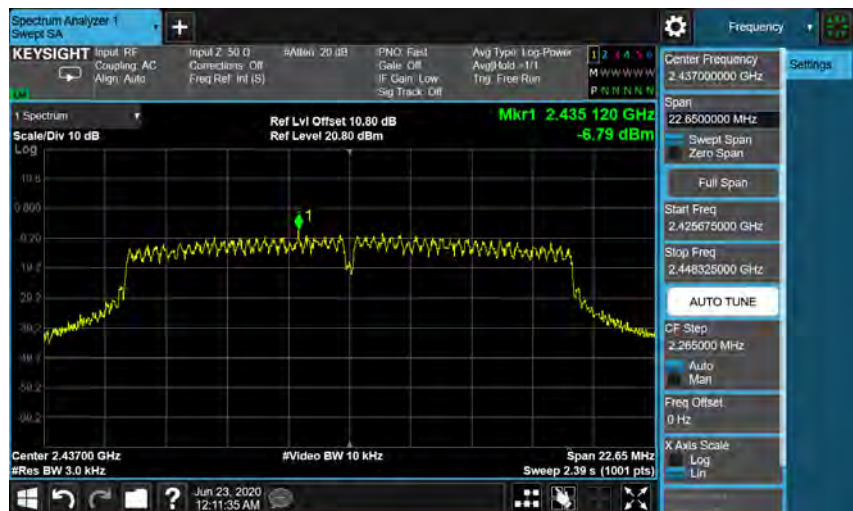


Mode 3: IEEE 802.11g Continuous TX mode

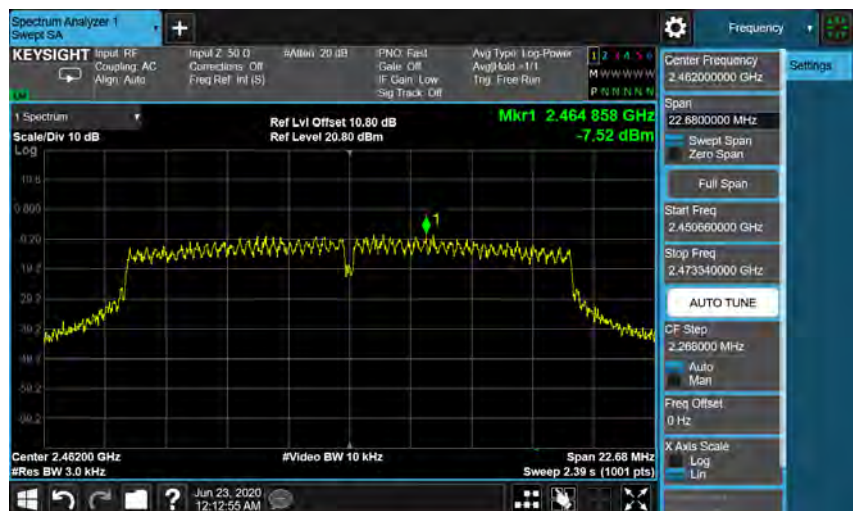
2412 MHz



2437 MHz

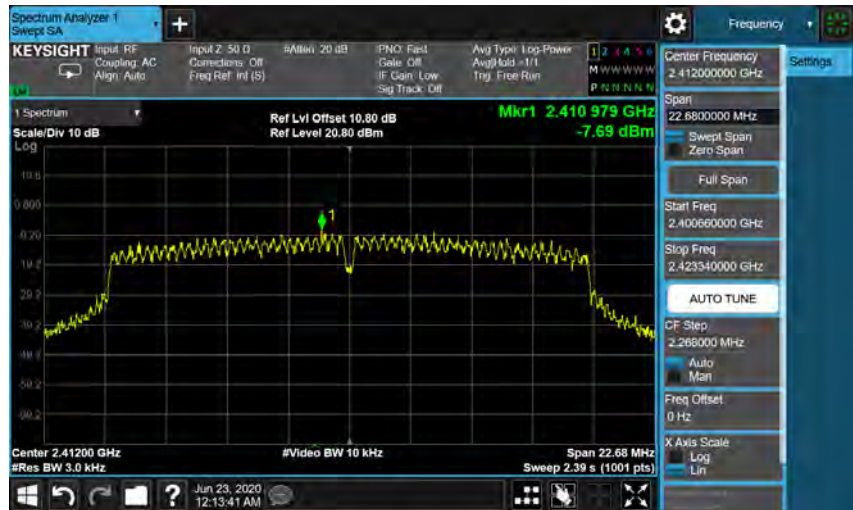


2462 MHz



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

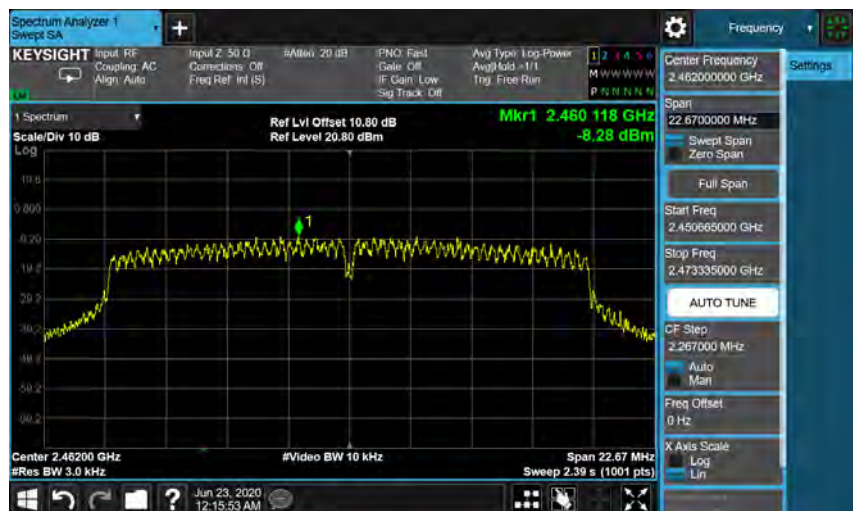
2412 MHz



2437 MHz



2462 MHz



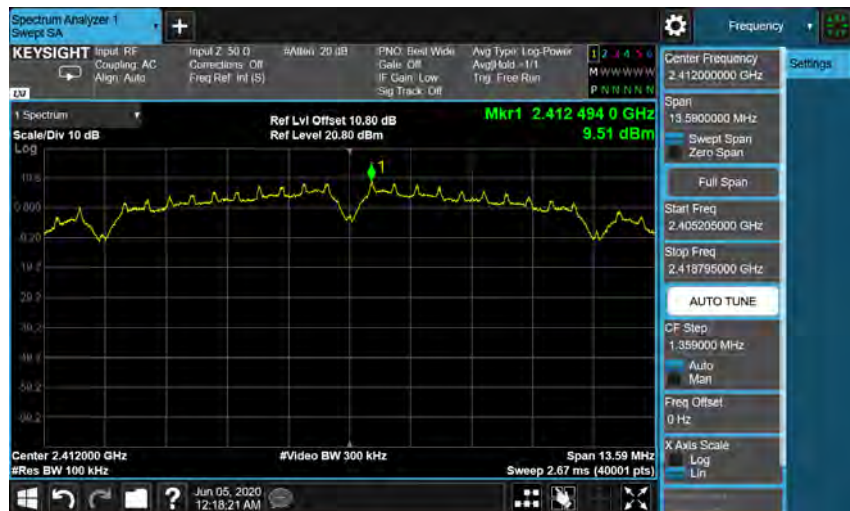
Out of Band Conducted Emissions Measurement

■ Test Graphs

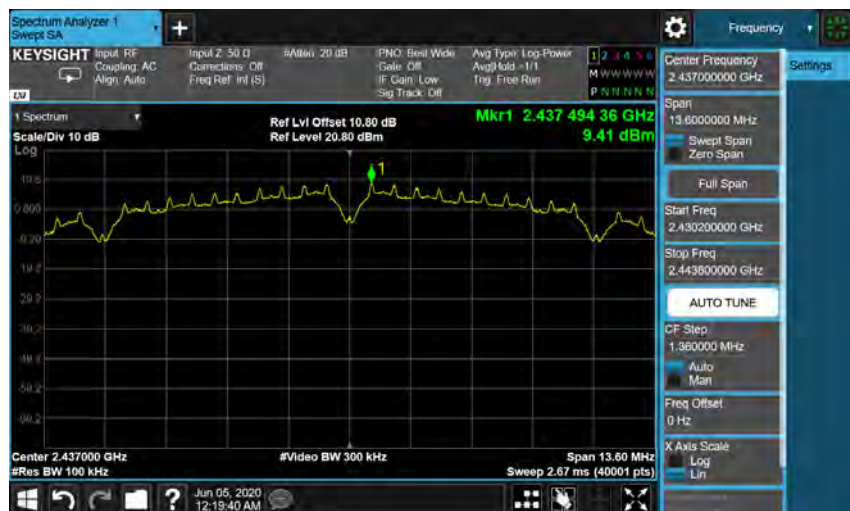
Reference level

Mode 2: IEEE 802.11b Continuous TX mode

2412 MHz



2437 MHz



2462 MHz

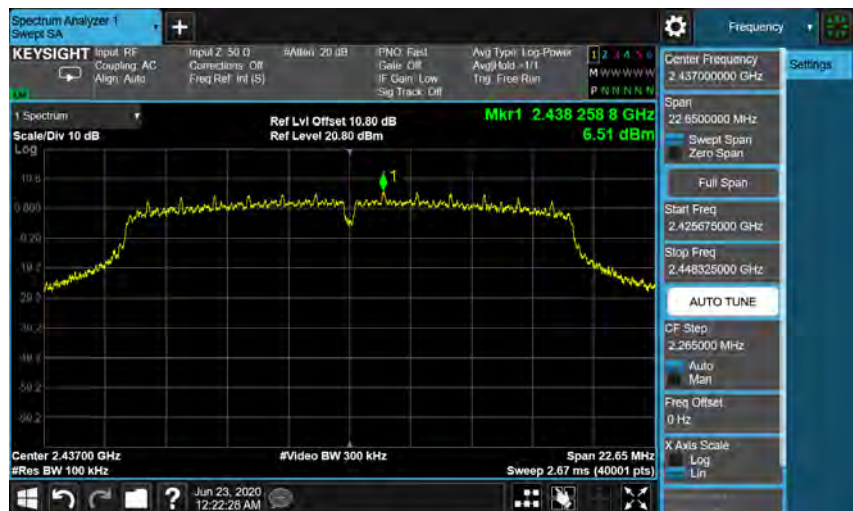


Mode 3: IEEE 802.11g Continuous TX mode

2412 MHz



2437 MHz



2462 MHz



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

2412 MHz



2437 MHz



2462 MHz



Out of Band Conducted Emissions

Mode 2: IEEE 802.11b Continuous TX mode

2412 MHz



2437 MHz



2462 MHz



Mode 3: IEEE 802.11g Continuous TX mode

2412 MHz



2437 MHz



2462 MHz





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

2412 MHz



2437 MHz



2462 MHz



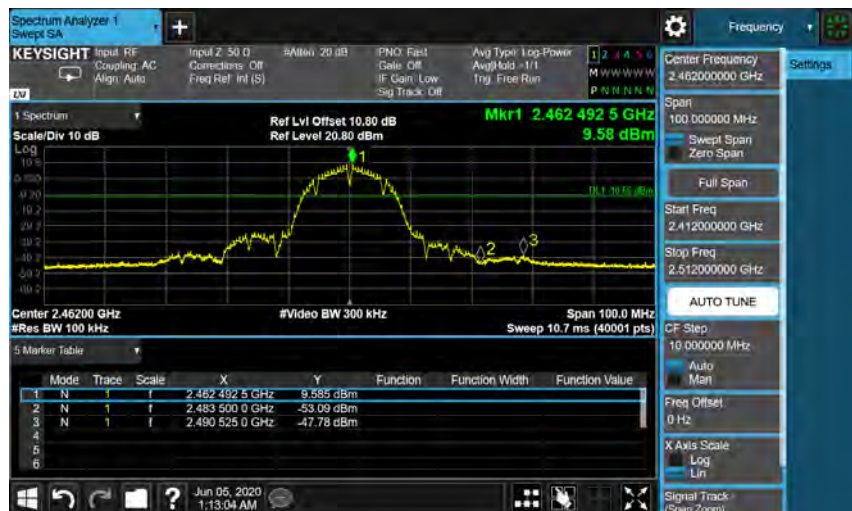
Conducted Band Edge

Mode 2: IEEE 802.11b Continuous TX mode

2412 MHz

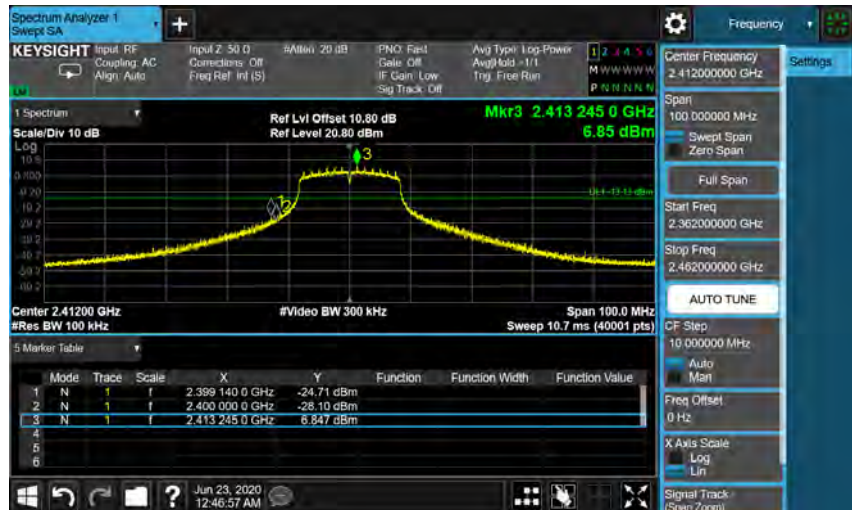


2462 MHz

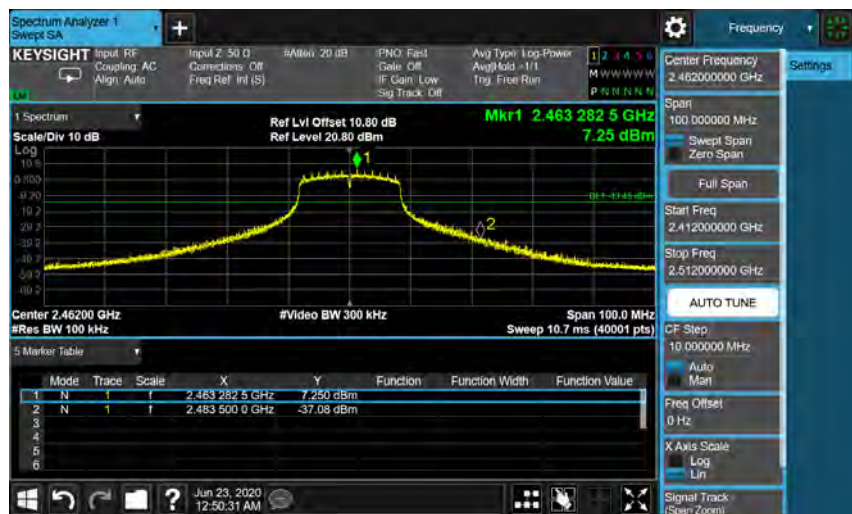


Mode 3: IEEE 802.11g Continuous TX mode

2412 MHz

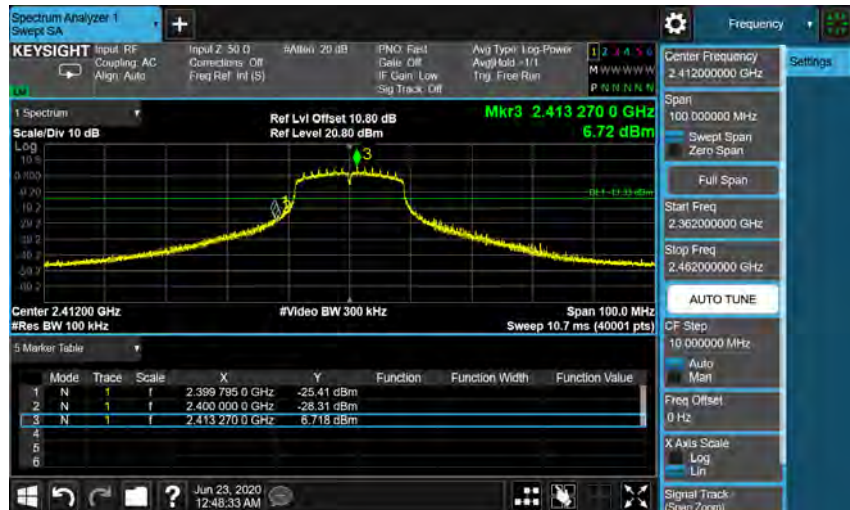


2462 MHz

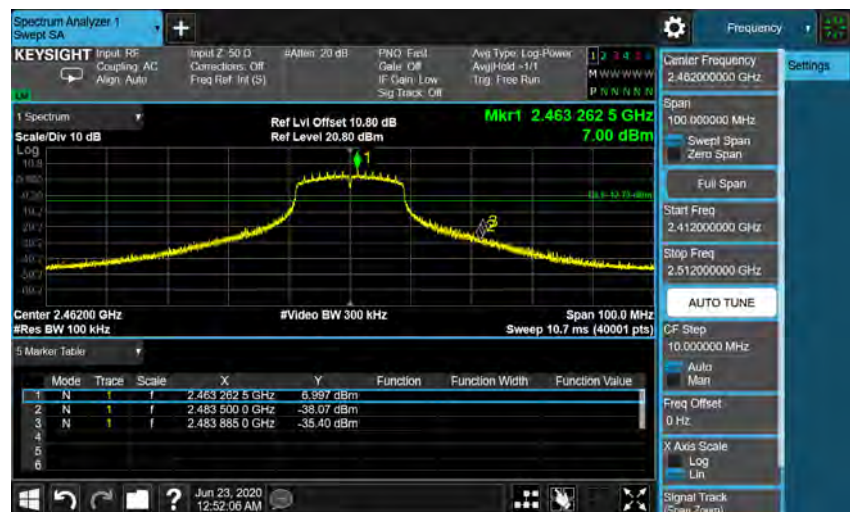


Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX mode

2412 MHz



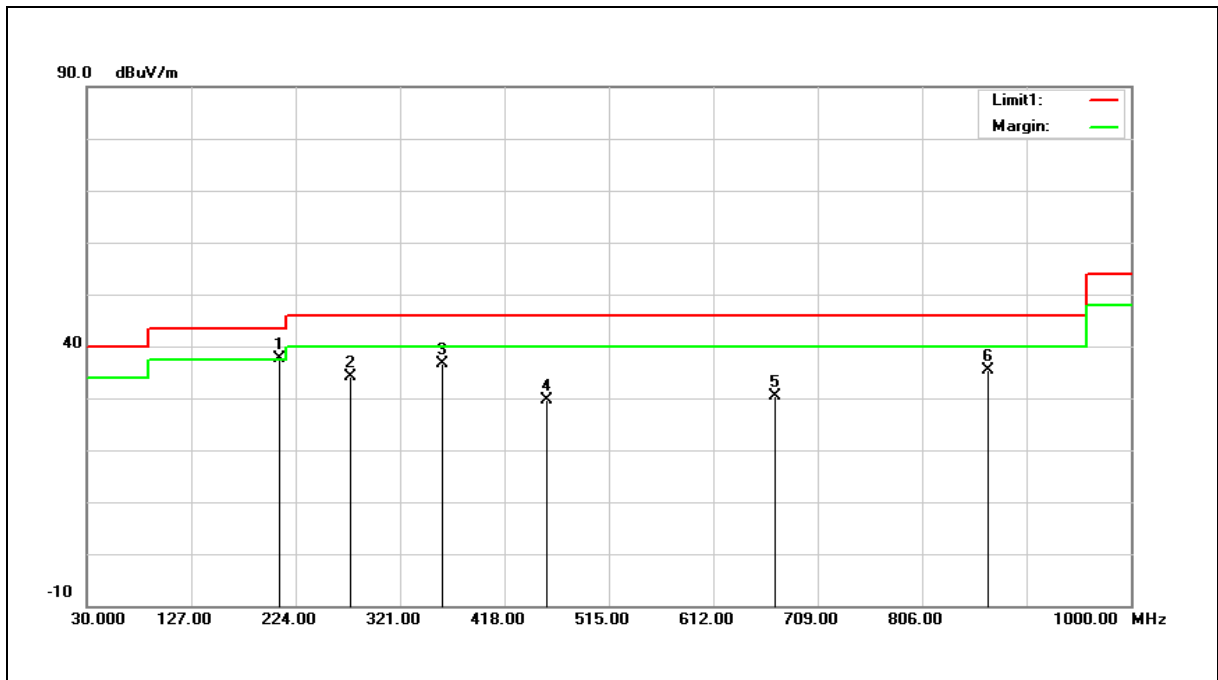
2462 MHz



Annex C. Radiated Emission Measurement

Below 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3m
Test item:	Radiated Emission	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	209.4500	45.34	-7.68	37.66	43.50	-5.84	QP
2	274.4400	39.09	-4.93	34.16	46.00	-11.84	QP
3	360.7700	39.66	-3.11	36.55	46.00	-9.45	QP
4	456.8000	30.28	-0.62	29.66	46.00	-16.34	QP
5	669.2300	26.96	3.30	30.26	46.00	-15.74	QP
6	867.1100	28.31	6.97	35.28	46.00	-10.72	QP

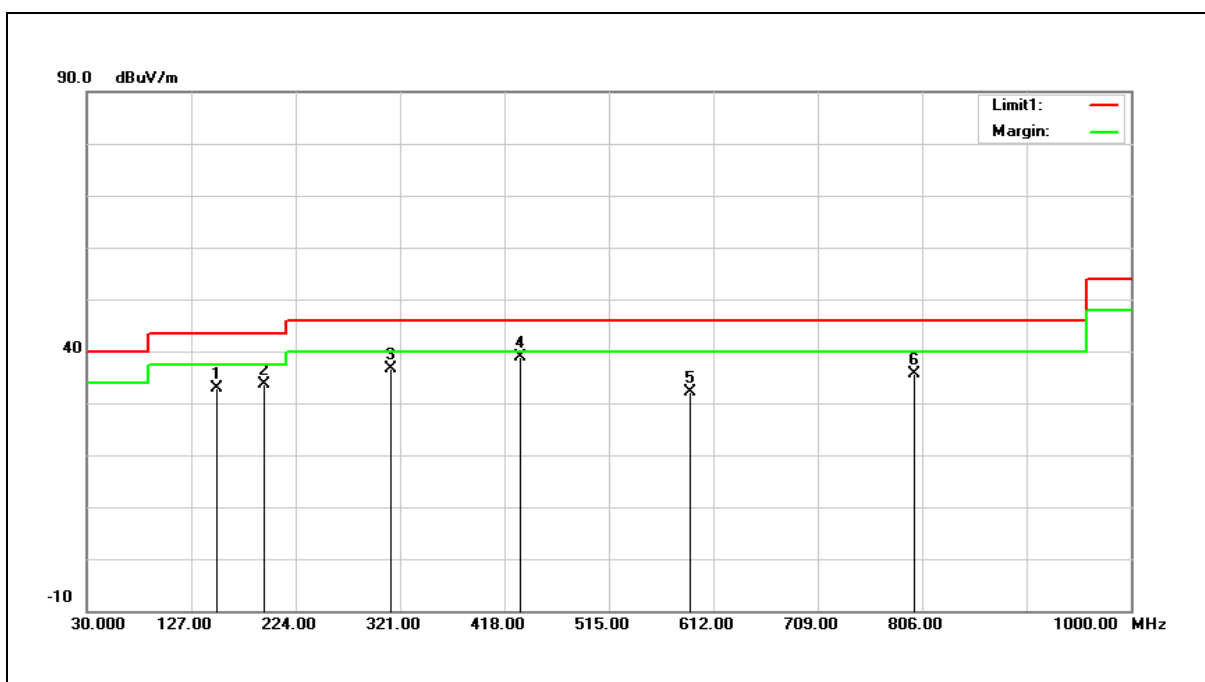
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 37.66=-7.68+45.34.

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:	3m
Test item:	Radiated Emission	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	150.2800	38.66	-5.75	32.91	43.50	-10.59	QP
2	194.9000	41.18	-7.51	33.67	43.50	-9.83	QP
3	312.2700	40.51	-4.00	36.51	46.00	-9.49	QP
4	432.5500	39.99	-1.19	38.80	46.00	-7.20	QP
5	590.6600	30.02	2.23	32.25	46.00	-13.75	QP
6	798.2400	29.75	5.81	35.56	46.00	-10.44	QP

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

Example: 32.91=-5.75+38.66.

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

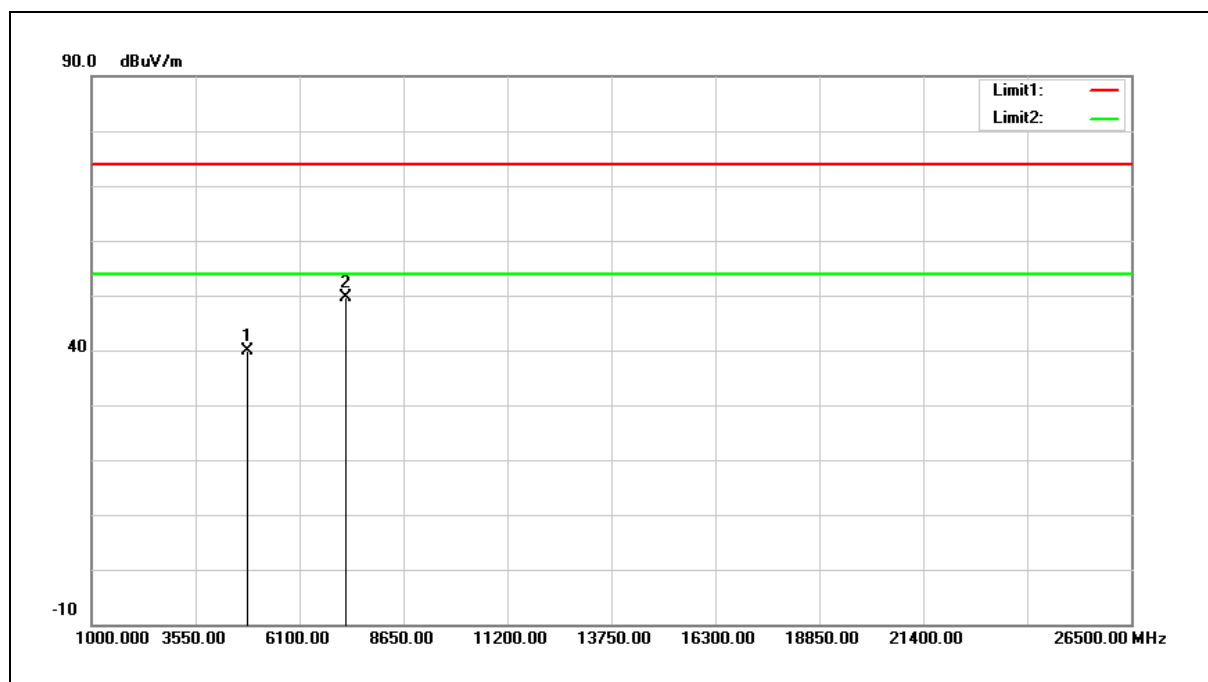
3.When the peak results are less than average limit, so not need to evaluate the average.



Harmonic

Above 1 GHz

Standard:	FCC Part 15.247	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412MHz	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	34.00	5.97	39.97	74.00	-34.03	peak
2	7236.000	37.17	12.48	49.65	74.00	-24.35	peak

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

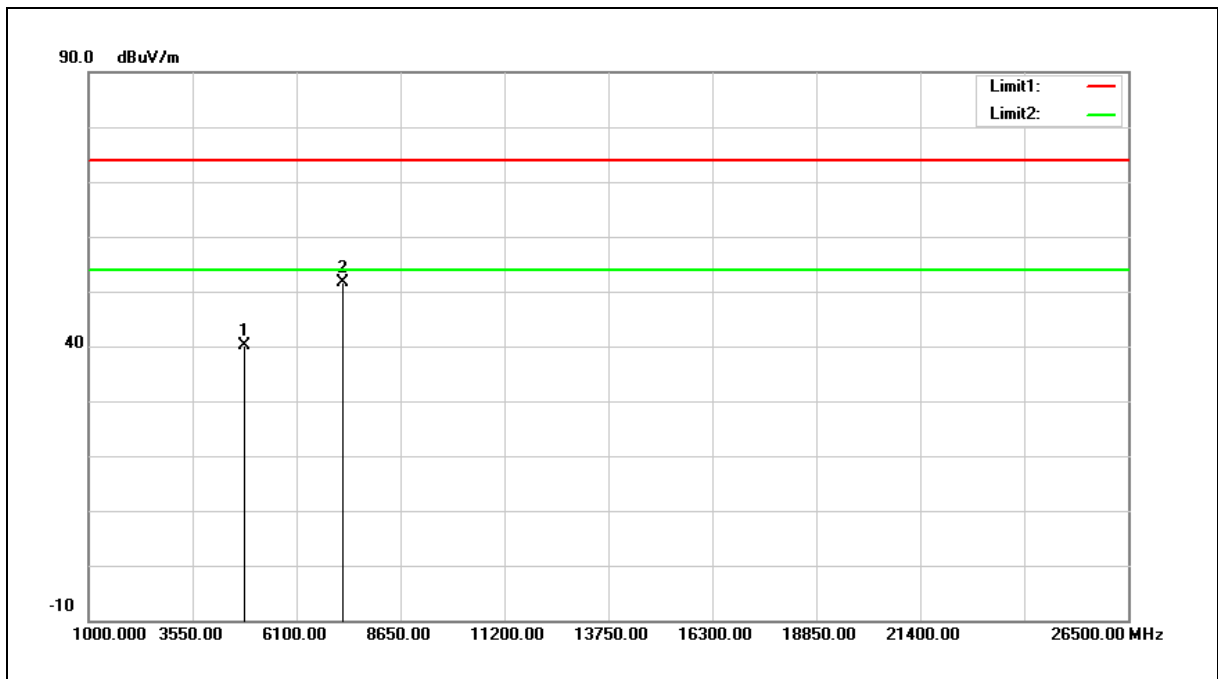
Example: 39.97=5.97+34.00.

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412MHz	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	34.19	5.97	40.16	74.00	-33.84	peak
2	7236.000	39.20	12.48	51.68	74.00	-22.32	peak

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

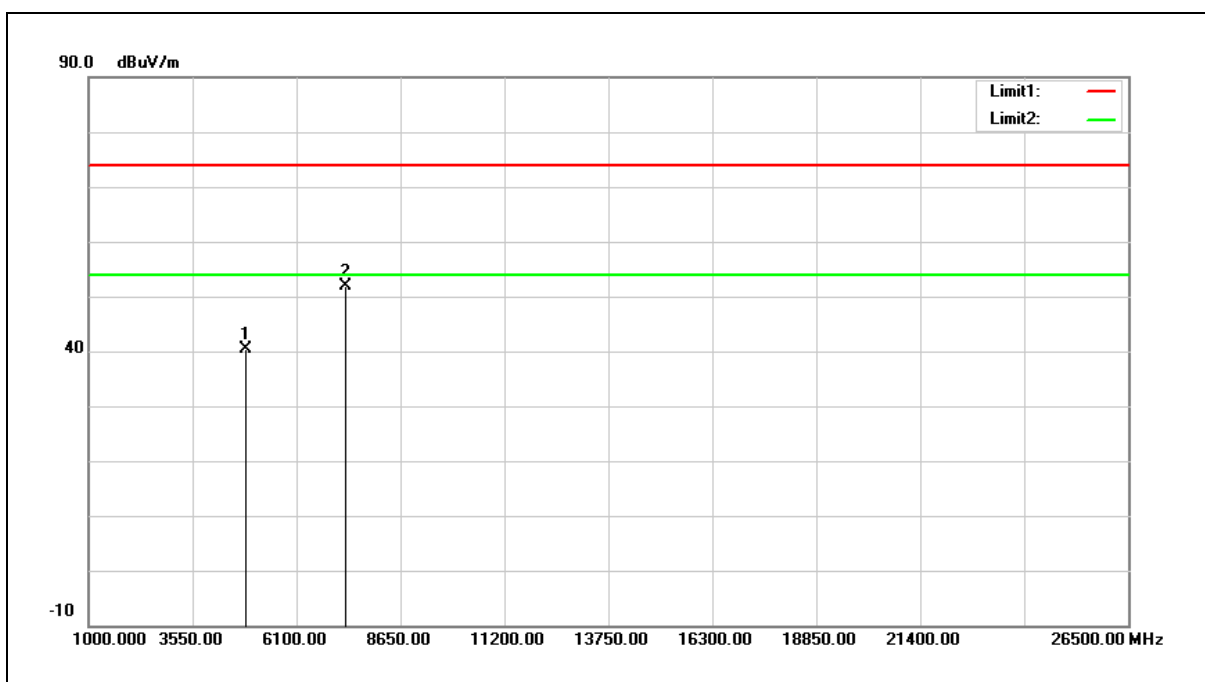
Example: 40.16=5.97+34.19.

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437MHz	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	34.27	6.12	40.39	74.00	-33.61	peak
2	7311.000	39.22	12.73	51.95	74.00	-22.05	peak

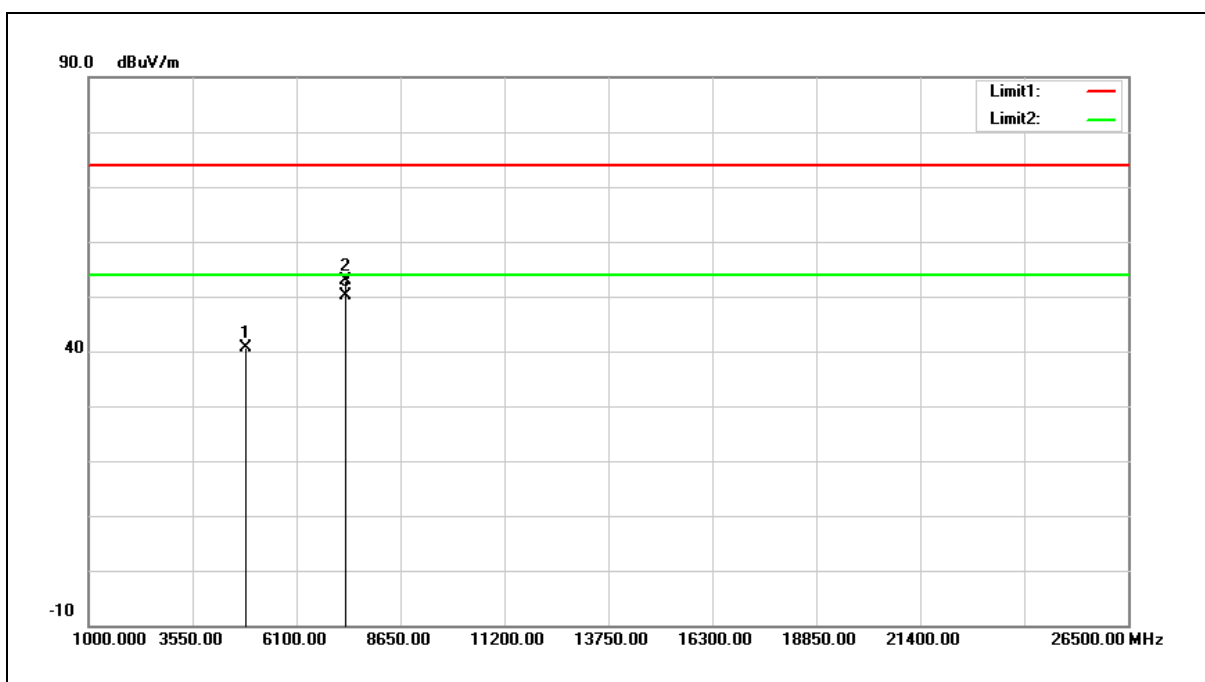
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437MHz	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	34.49	6.12	40.61	74.00	-33.39	peak
2	7311.000	40.17	12.73	52.90	74.00	-21.10	peak
3	7311.000	37.29	12.73	50.02	54.00	-3.98	AVG

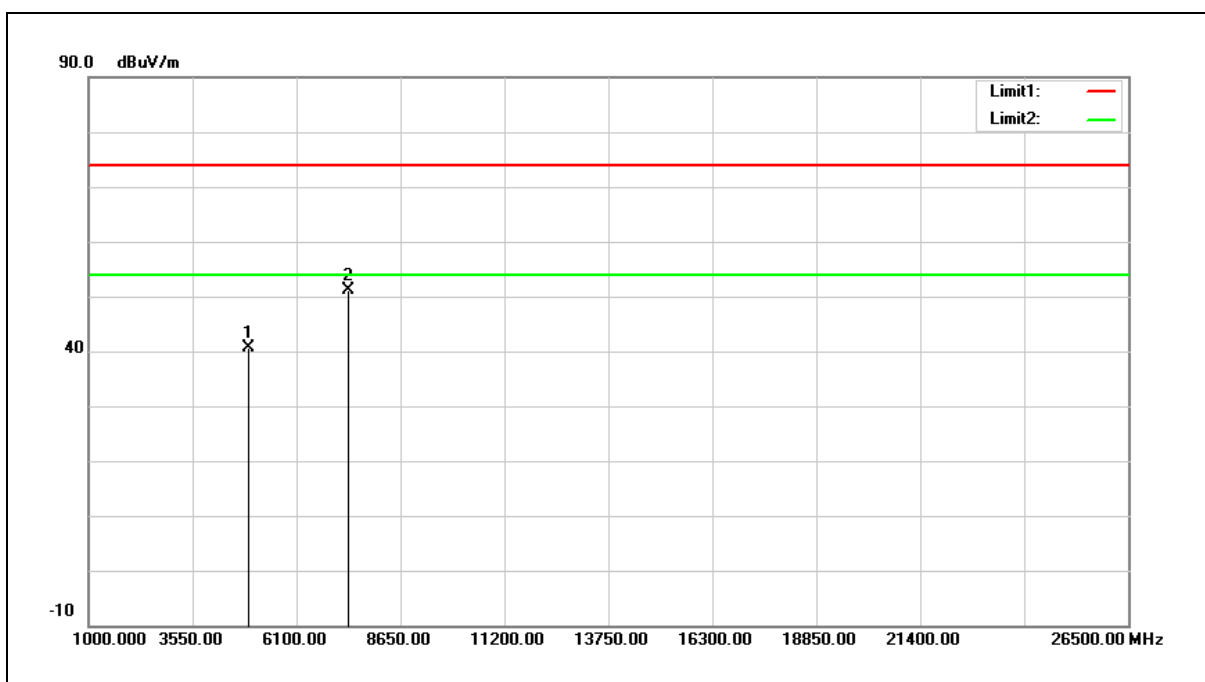
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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	34.45	6.28	40.73	74.00	-33.27	peak
2	7386.000	38.18	12.99	51.17	74.00	-22.83	peak

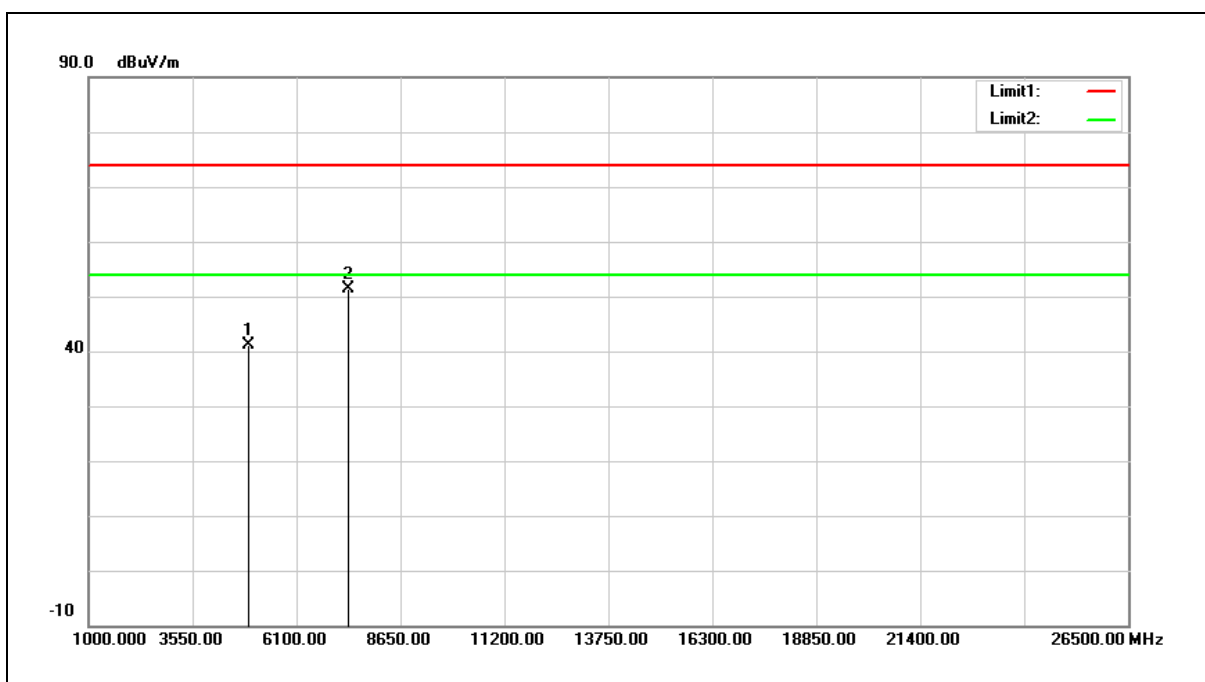
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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	34.79	6.28	41.07	74.00	-32.93	peak
2	7386.000	38.29	12.99	51.28	74.00	-22.72	peak

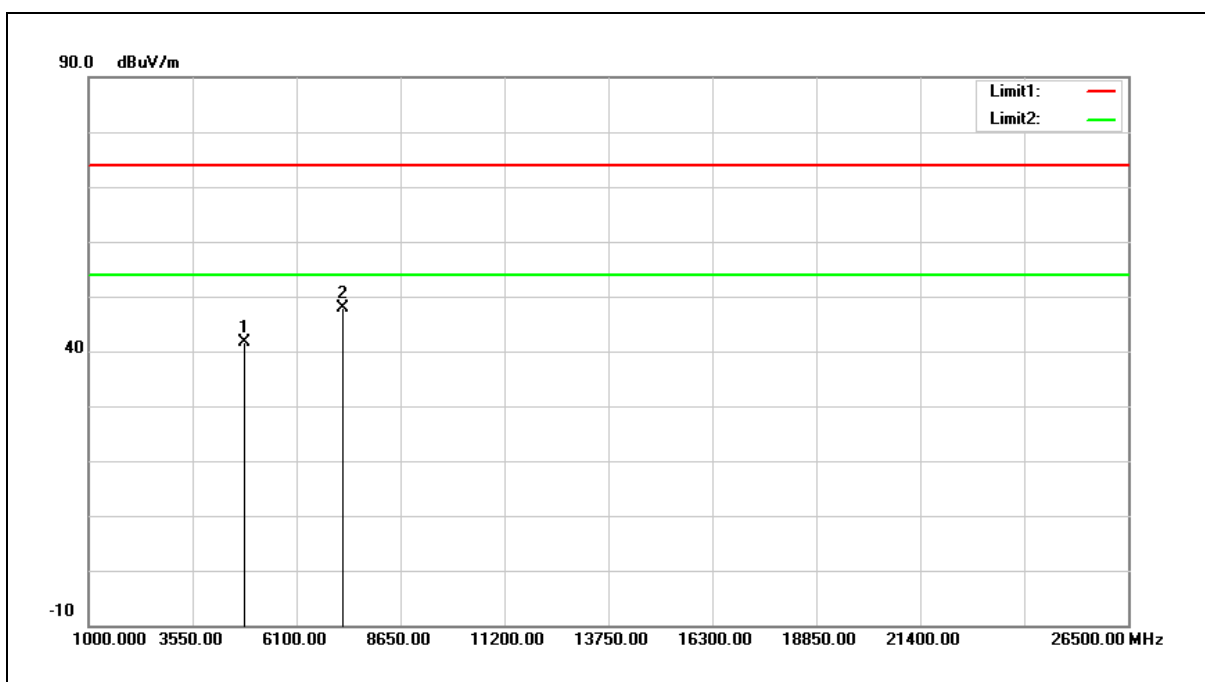
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



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



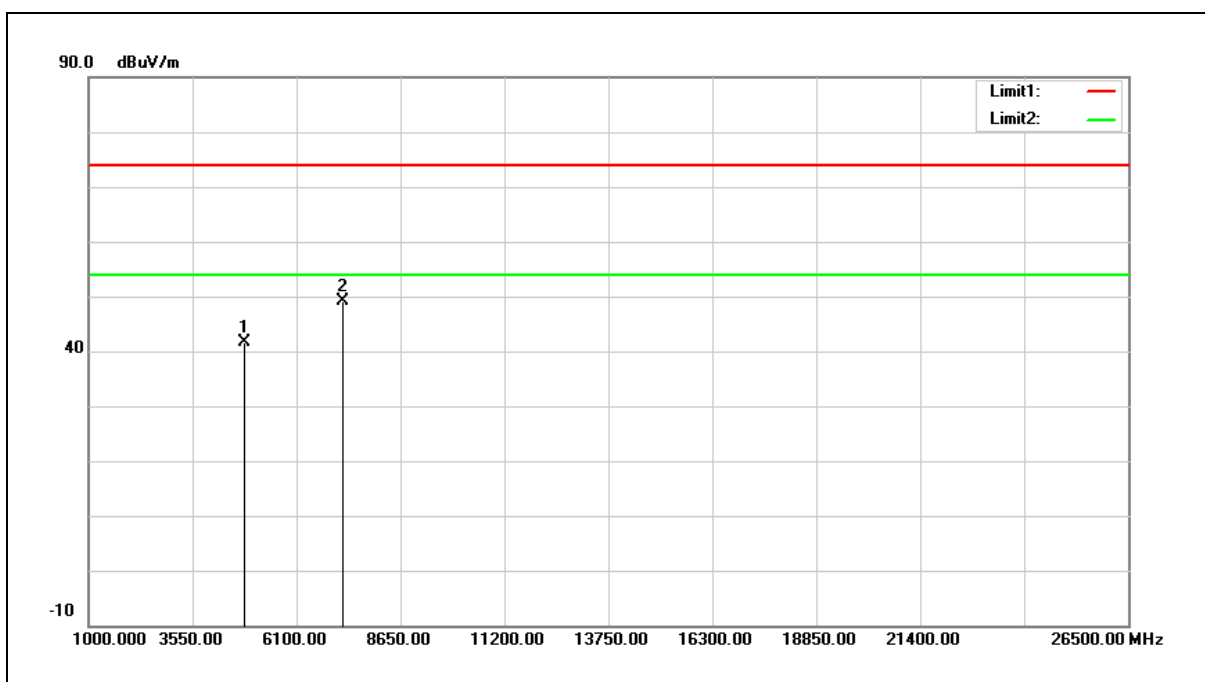
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	35.63	5.97	41.60	74.00	-32.40	peak
2	7236.000	35.33	12.48	47.81	74.00	-26.19	peak

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412MHz	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	35.75	5.97	41.72	74.00	-32.28	peak
2	7236.000	36.70	12.48	49.18	74.00	-24.82	peak

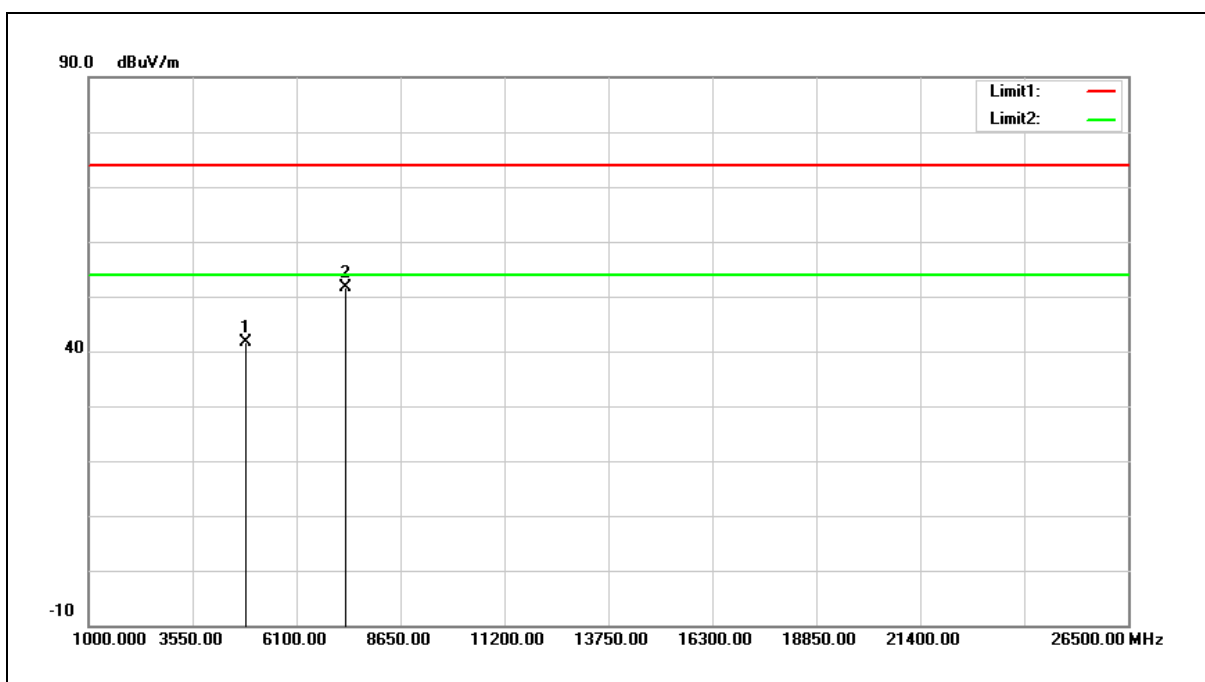
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437MHz	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	35.44	6.12	41.56	74.00	-32.44	peak
2	7311.000	38.96	12.73	51.69	74.00	-22.31	peak

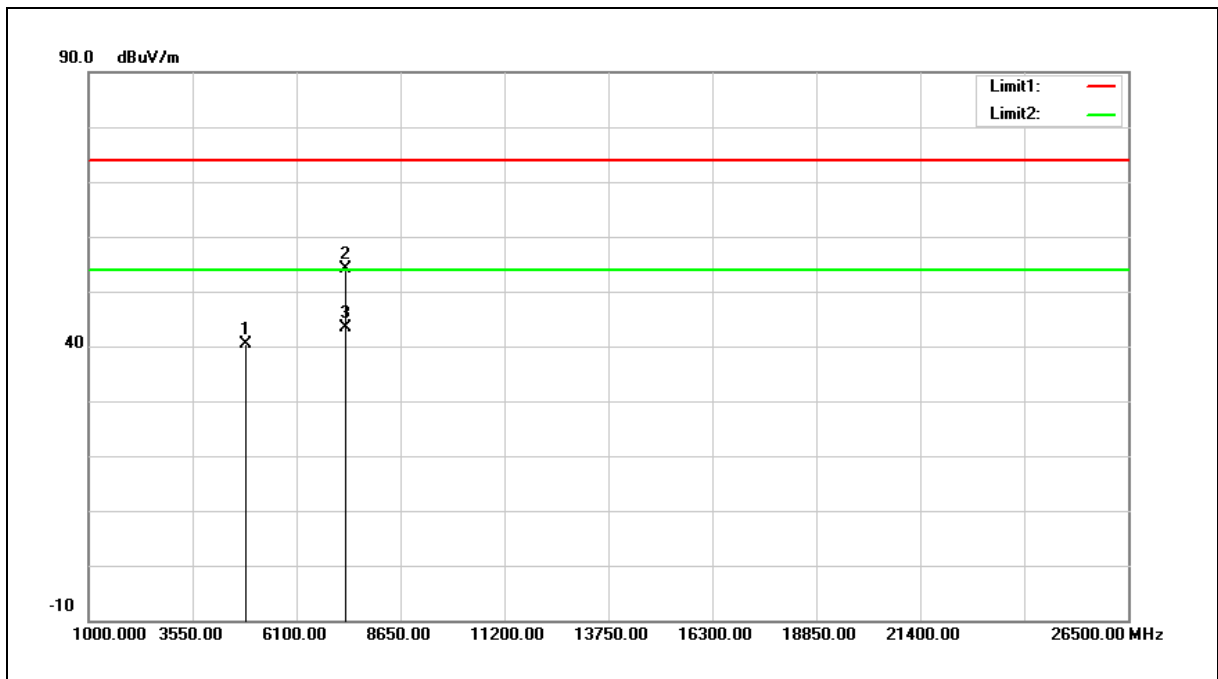
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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



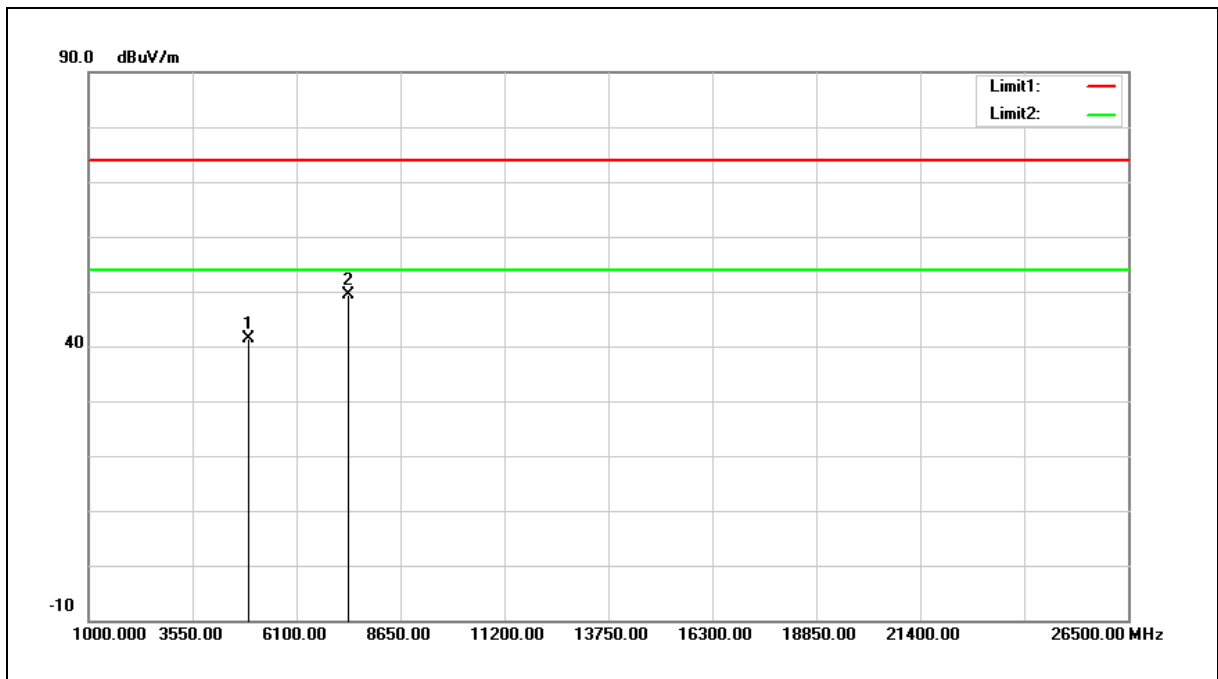
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.25	6.12	40.37	74.00	-33.63	peak
2	7311.000	41.40	12.73	54.13	74.00	-19.87	peak
3	7311.000	30.53	12.73	43.26	54.00	-10.74	AVG

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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	35.09	6.28	41.37	74.00	-32.63	peak
2	7386.000	36.27	12.99	49.26	74.00	-24.74	peak

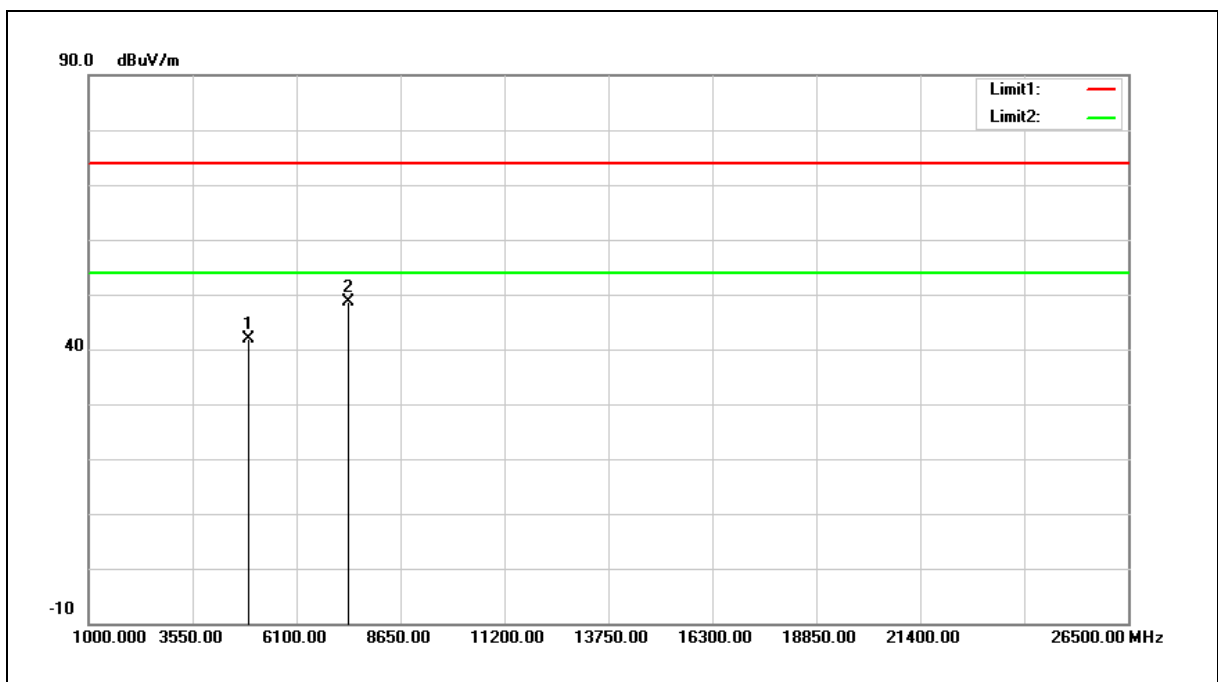
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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	35.60	6.28	41.88	74.00	-32.12	peak
2	7386.000	35.62	12.99	48.61	74.00	-25.39	peak

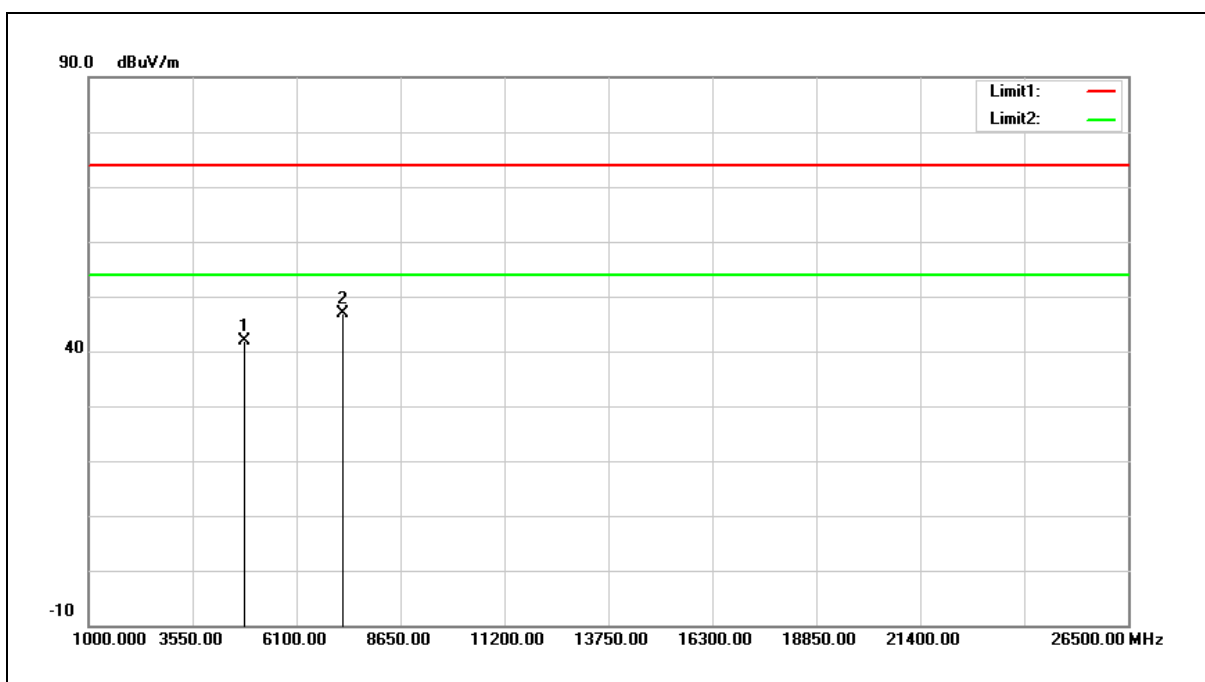
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2412MHz	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	35.83	5.97	41.80	74.00	-32.20	peak
2	7236.000	34.36	12.48	46.84	74.00	-27.16	peak

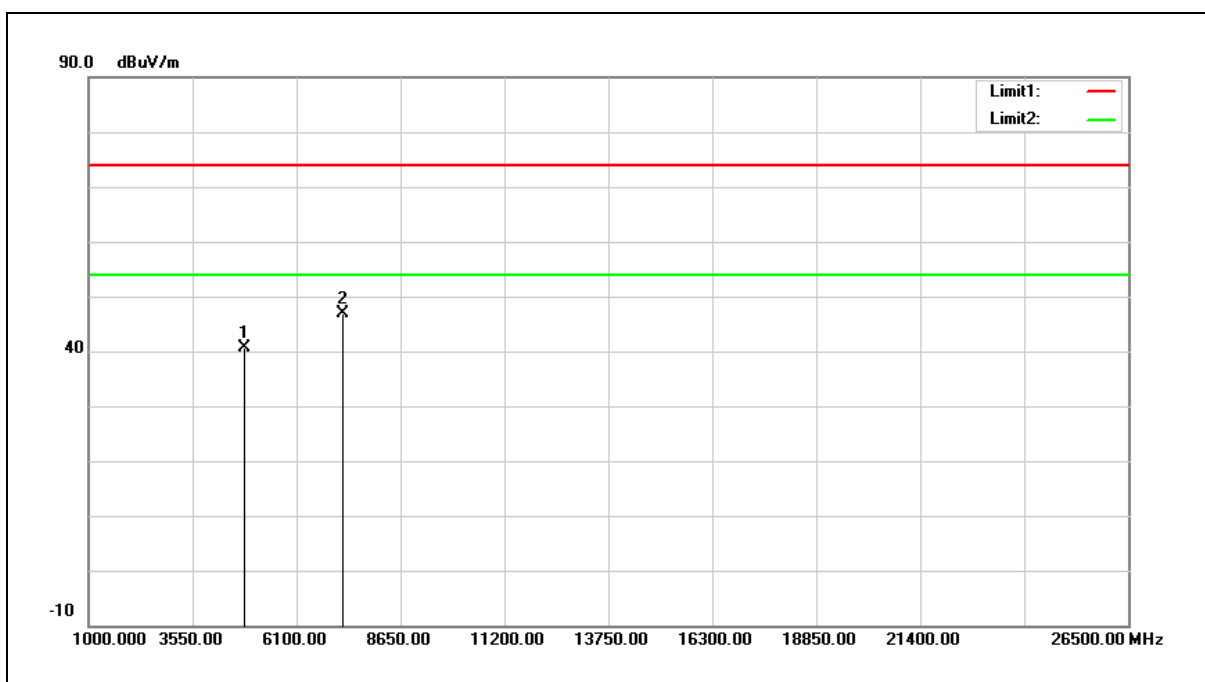
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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



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



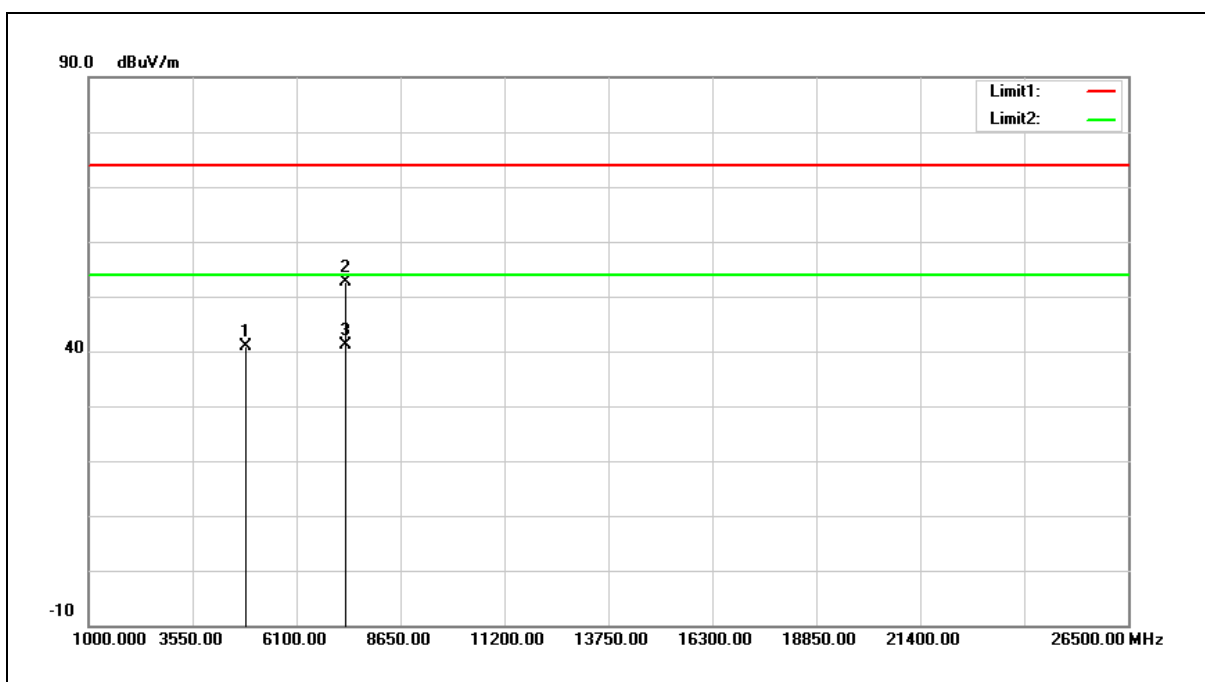
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	34.75	5.97	40.72	74.00	-33.28	peak
2	7236.000	34.45	12.48	46.93	74.00	-27.07	peak

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2437MHz	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	34.88	6.12	41.00	74.00	-33.00	peak
2	7311.000	40.00	12.73	52.73	74.00	-21.27	peak
3	7311.000	28.43	12.73	41.16	54.00	-12.84	AVG

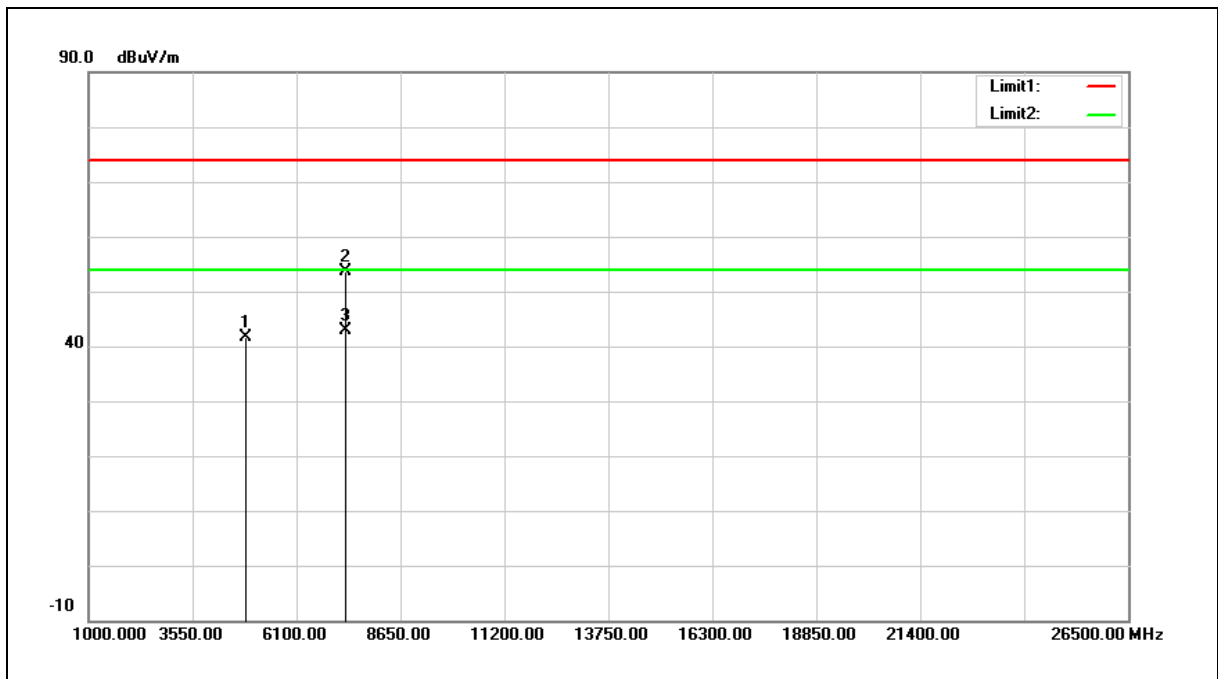
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	35.42	6.12	41.54	74.00	-32.46	peak
2	7311.000	40.86	12.73	53.59	74.00	-20.41	peak
3	7311.000	30.16	12.73	42.89	54.00	-11.11	AVG

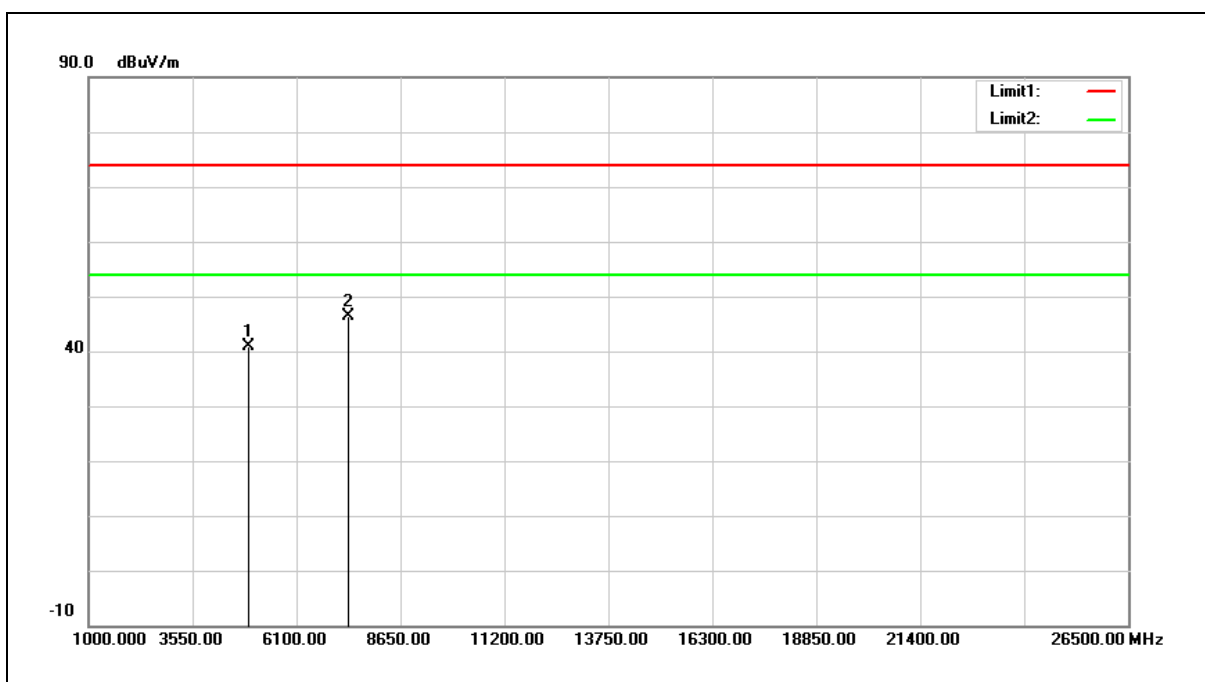
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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	34.56	6.28	40.84	74.00	-33.16	peak
2	7386.000	33.51	12.99	46.50	74.00	-27.50	peak

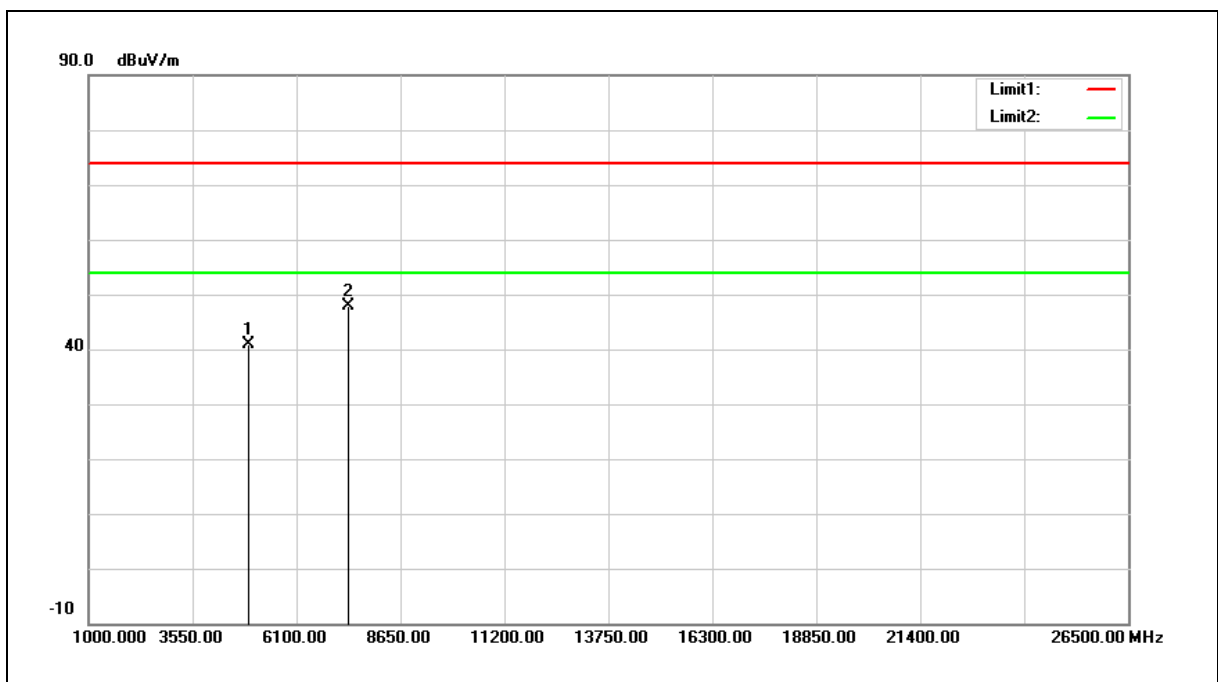
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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



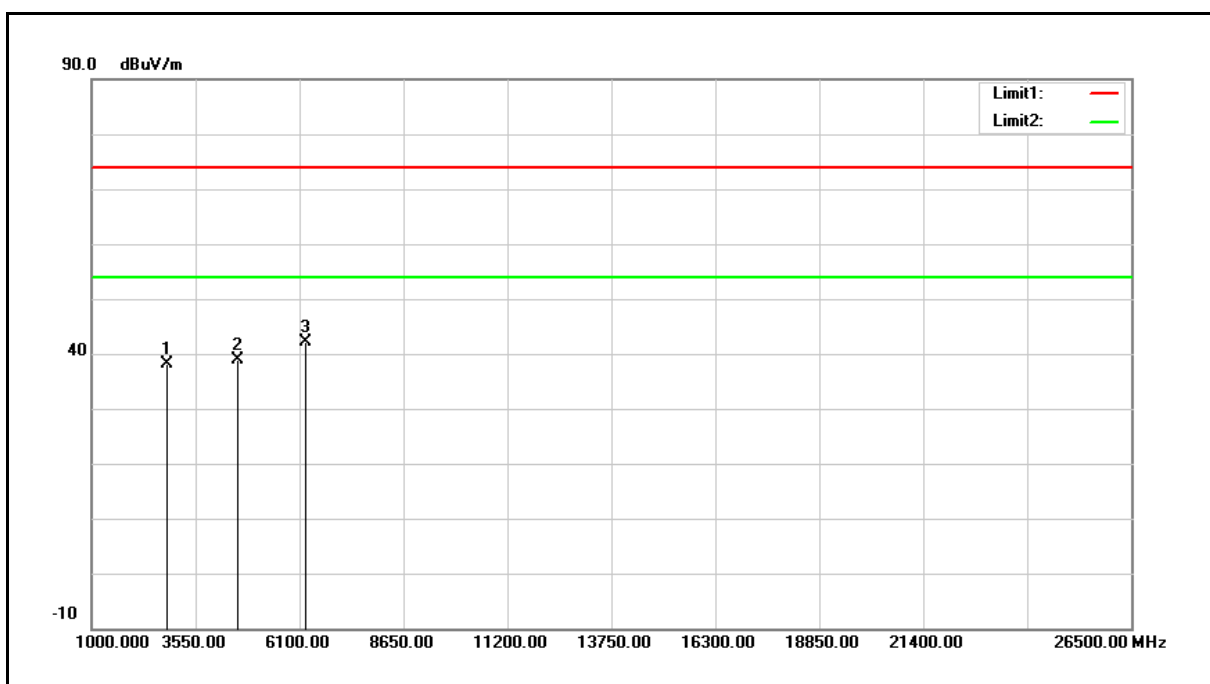
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	34.70	6.28	40.98	74.00	-33.02	peak
2	7386.000	34.86	12.99	47.85	74.00	-26.15	peak

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Mode:	Simultaneous Transmitting (WLAN 2.4 GHz + Bluetooth)	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Ant.Polar.:	Horizontal		



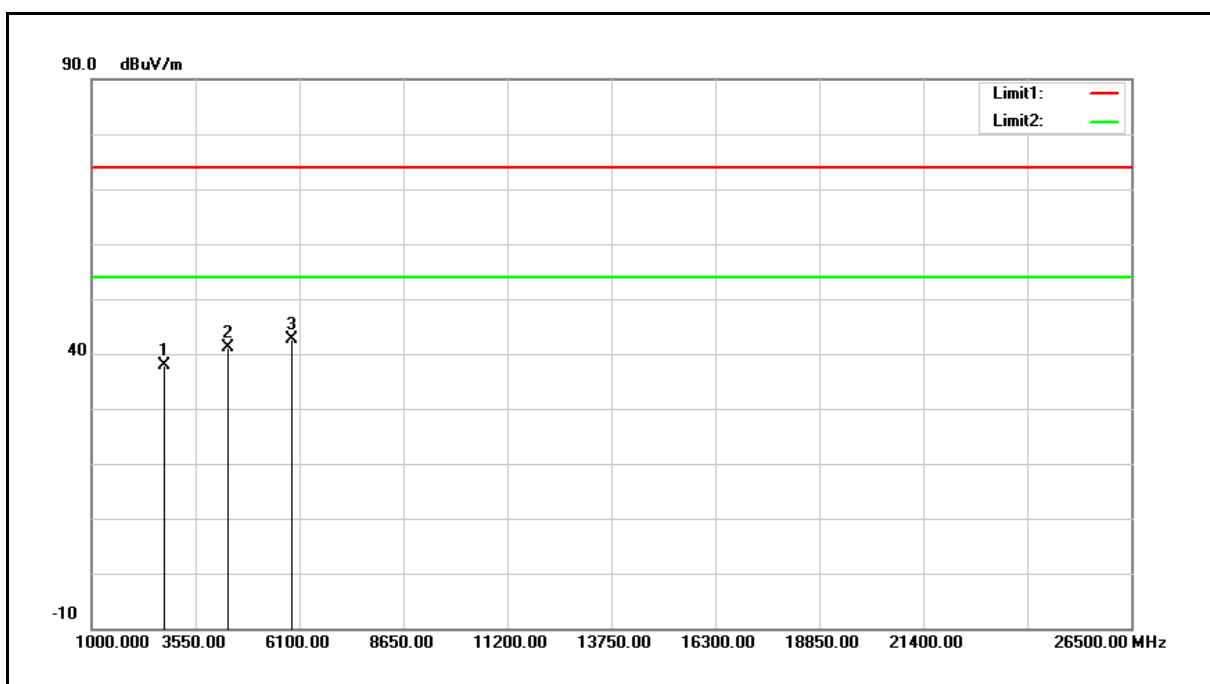
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2819.000	37.45	0.62	38.07	74.00	-35.93	peak
2	4570.000	33.58	5.19	38.77	74.00	-35.23	peak
3	6253.000	32.43	9.69	42.12	74.00	-31.88	peak

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:	3m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Mode:	Simultaneous Transmitting (WLAN 2.4 GHz + Bluetooth)	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2785.000	37.46	0.52	37.98	74.00	-36.02	peak
2	4332.000	36.37	4.65	41.02	74.00	-32.98	peak
3	5913.000	33.80	8.76	42.56	74.00	-31.44	peak

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

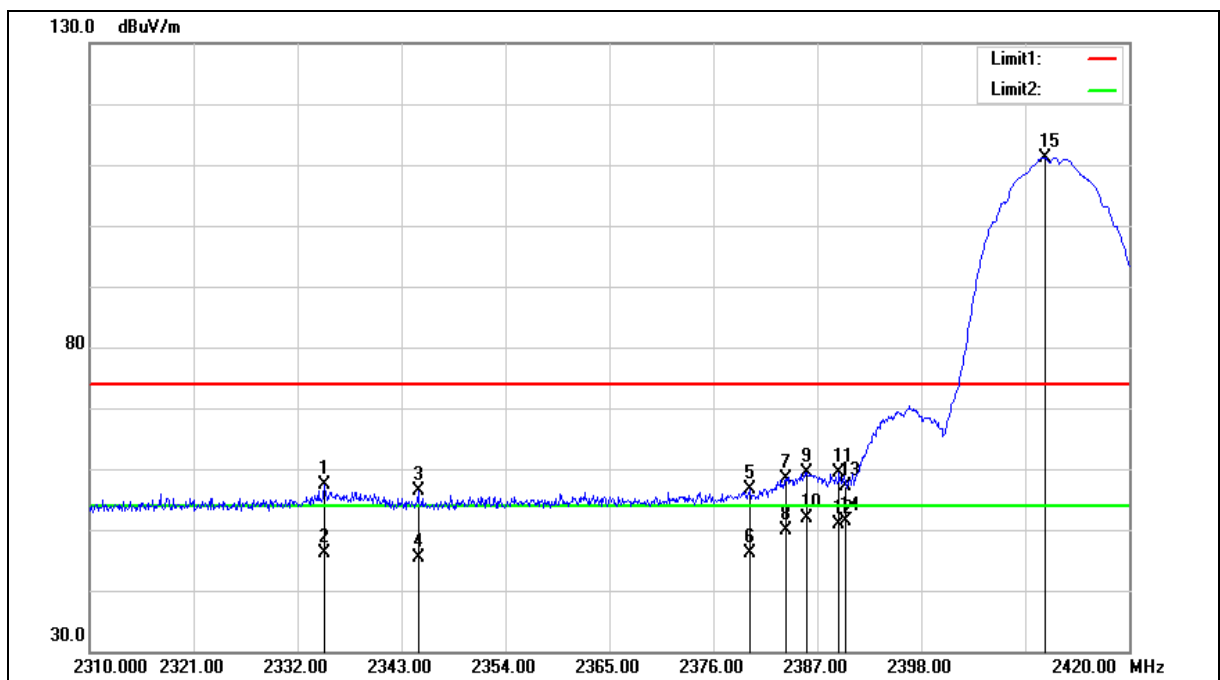
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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



Band Edge

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





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

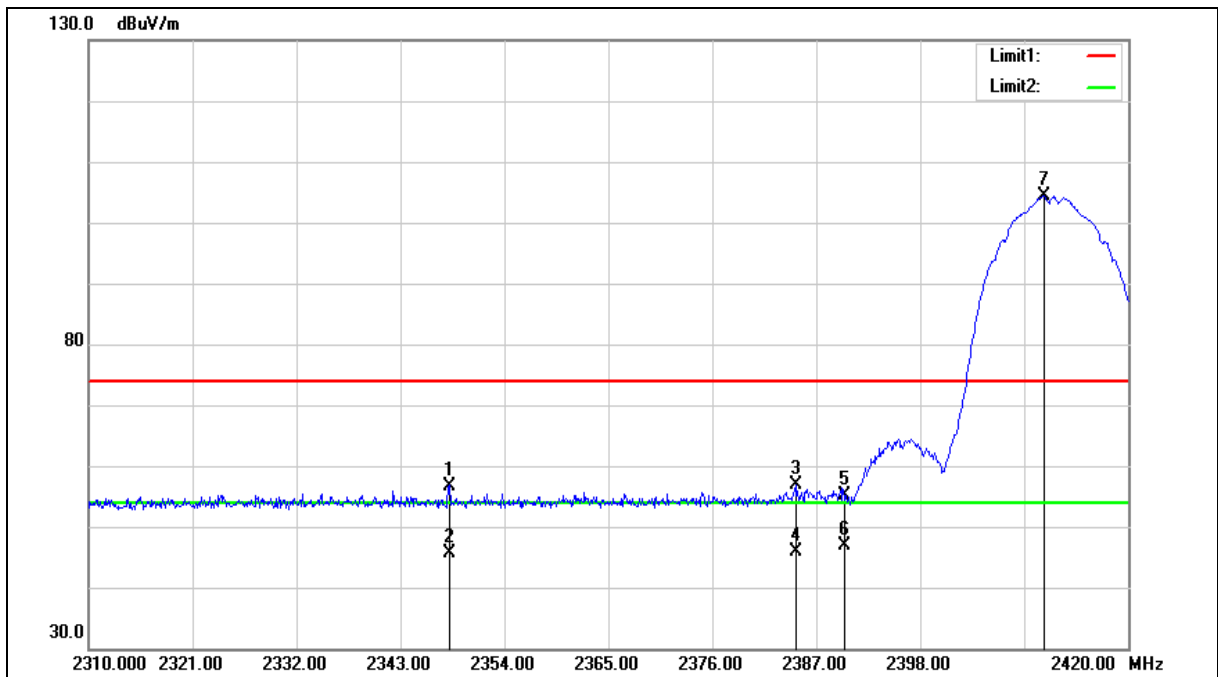
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2334.860	58.47	-1.14	57.33	74.00	-16.67	peak
2	2334.860	47.32	-1.14	46.18	54.00	-7.82	AVG
3	2344.760	57.45	-1.10	56.35	74.00	-17.65	peak
4	2344.760	46.60	-1.10	45.50	54.00	-8.50	AVG
5	2379.850	57.58	-0.93	56.65	74.00	-17.35	peak
6	2379.850	47.18	-0.93	46.25	54.00	-7.75	AVG
7	2383.700	59.18	-0.91	58.27	74.00	-15.73	peak
8	2383.700	50.84	-0.91	49.93	54.00	-4.07	AVG
9	2385.900	60.30	-0.90	59.40	74.00	-14.60	peak
10	2385.900	52.72	-0.90	51.82	54.00	-2.18	AVG
11	2389.310	60.23	-0.88	59.35	74.00	-14.65	peak
12	2389.310	51.83	-0.88	50.95	54.00	-3.05	AVG
13	2390.000	58.05	-0.87	57.18	74.00	-16.82	peak
14	2390.000	52.28	-0.87	51.41	54.00	-2.59	AVG
15	2411.090	112.01	-0.76	111.25	--	--	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:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412MHz	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	2348.170	57.83	-1.08	56.75	74.00	-17.25	peak
2	2348.170	46.59	-1.08	45.51	54.00	-8.49	AVG
3	2384.800	57.66	-0.90	56.76	74.00	-17.24	peak
4	2384.800	46.66	-0.90	45.76	54.00	-8.24	AVG
5	2390.000	55.89	-0.87	55.02	74.00	-18.98	peak
6	2390.000	47.70	-0.87	46.83	54.00	-7.17	AVG
7	2411.090	105.06	-0.76	104.30	--	--	peak

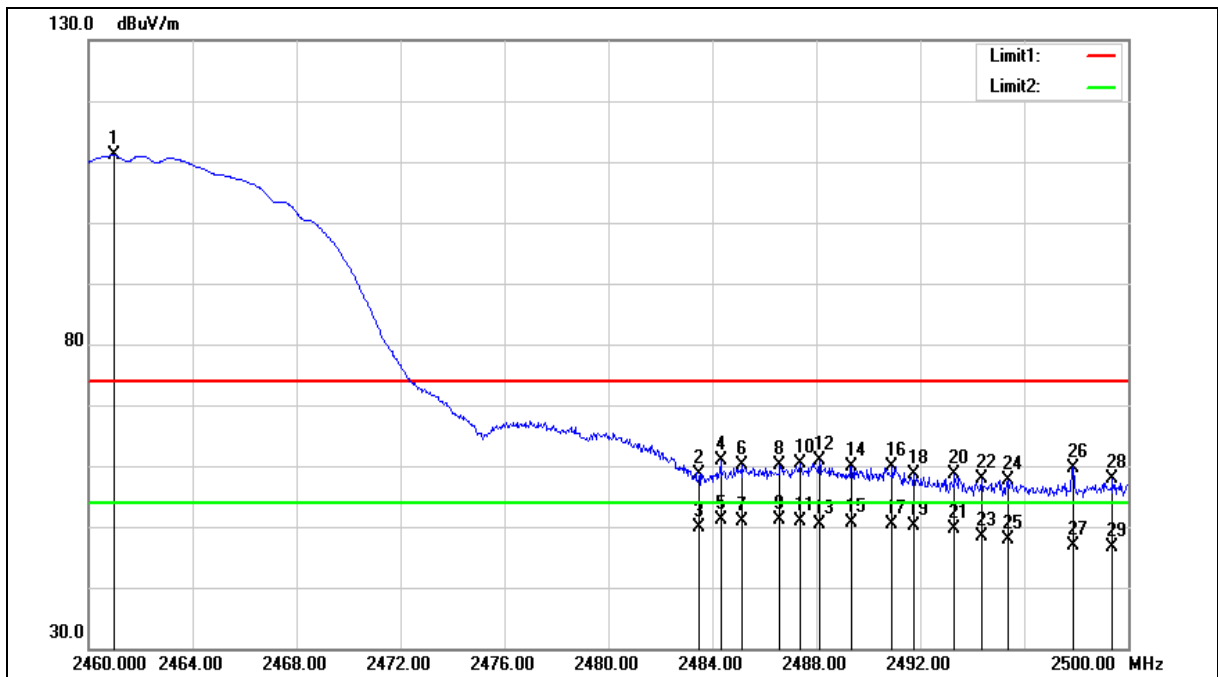
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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





Standard:	FCC Part 15.247	Test Distance:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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	2460.960	111.57	-0.51	111.06	--	--	peak
2	2483.500	59.01	-0.40	58.61	74.00	-15.39	peak
3	2483.500	50.16	-0.40	49.76	54.00	-4.24	AVG
4	2484.320	61.15	-0.39	60.76	74.00	-13.24	peak
5	2484.320	51.62	-0.39	51.23	54.00	-2.77	AVG
6	2485.160	60.62	-0.39	60.23	74.00	-13.77	peak
7	2485.160	51.36	-0.39	50.97	54.00	-3.03	AVG
8	2486.600	60.49	-0.38	60.11	74.00	-13.89	peak
9	2486.600	51.54	-0.38	51.16	54.00	-2.84	AVG
10	2487.360	60.72	-0.37	60.35	74.00	-13.65	peak
11	2487.360	51.21	-0.37	50.84	54.00	-3.16	AVG
12	2488.120	61.33	-0.37	60.96	74.00	-13.04	peak
13	2488.120	50.74	-0.37	50.37	54.00	-3.63	AVG
14	2489.360	60.30	-0.37	59.93	74.00	-14.07	peak
15	2489.360	50.96	-0.37	50.59	54.00	-3.41	AVG
16	2490.920	60.27	-0.36	59.91	74.00	-14.09	peak
17	2490.920	50.73	-0.36	50.37	54.00	-3.63	AVG
18	2491.760	58.88	-0.35	58.53	74.00	-15.47	peak
19	2491.760	50.57	-0.35	50.22	54.00	-3.78	AVG
20	2493.320	59.06	-0.34	58.72	74.00	-15.28	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:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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
21	2493.320	49.85	-0.34	49.51	54.00	-4.49	AVG
22	2494.360	58.11	-0.34	57.77	74.00	-16.23	peak
23	2494.360	48.69	-0.34	48.35	54.00	-5.65	AVG
24	2495.360	58.03	-0.34	57.69	74.00	-16.31	peak
25	2495.360	48.14	-0.34	47.80	54.00	-6.20	AVG
26	2497.880	60.07	-0.32	59.75	74.00	-14.25	peak
27	2497.880	47.16	-0.32	46.84	54.00	-7.16	AVG
28	2499.400	58.28	-0.31	57.97	74.00	-16.03	peak
29	2499.400	46.87	-0.31	46.56	54.00	-7.44	AVG

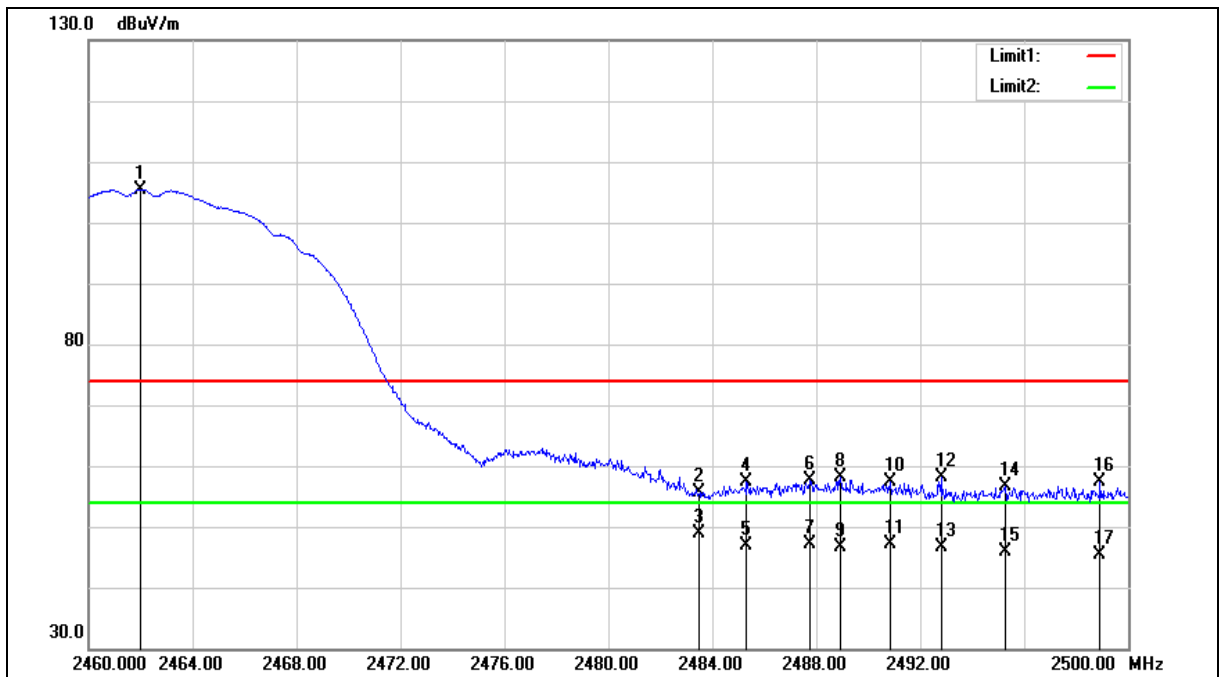
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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





Standard:	FCC Part 15.247	Test Distance:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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	2462.000	105.95	-0.51	105.44	--	--	peak
2	2483.500	55.91	-0.40	55.51	74.00	-18.49	peak
3	2483.500	49.26	-0.40	48.86	54.00	-5.14	AVG
4	2485.320	57.66	-0.39	57.27	74.00	-16.73	peak
5	2485.320	47.17	-0.39	46.78	54.00	-7.22	AVG
6	2487.760	58.07	-0.37	57.70	74.00	-16.30	peak
7	2487.760	47.46	-0.37	47.09	54.00	-6.91	AVG
8	2488.920	58.42	-0.37	58.05	74.00	-15.95	peak
9	2488.920	46.90	-0.37	46.53	54.00	-7.47	AVG
10	2490.840	57.68	-0.36	57.32	74.00	-16.68	peak
11	2490.840	47.37	-0.36	47.01	54.00	-6.99	AVG
12	2492.800	58.56	-0.34	58.22	74.00	-15.78	peak
13	2492.800	47.09	-0.34	46.75	54.00	-7.25	AVG
14	2495.280	57.01	-0.34	56.67	74.00	-17.33	peak
15	2495.280	46.25	-0.34	45.91	54.00	-8.09	AVG
16	2498.920	57.80	-0.31	57.49	74.00	-16.51	peak
17	2498.920	45.68	-0.31	45.37	54.00	-8.63	AVG

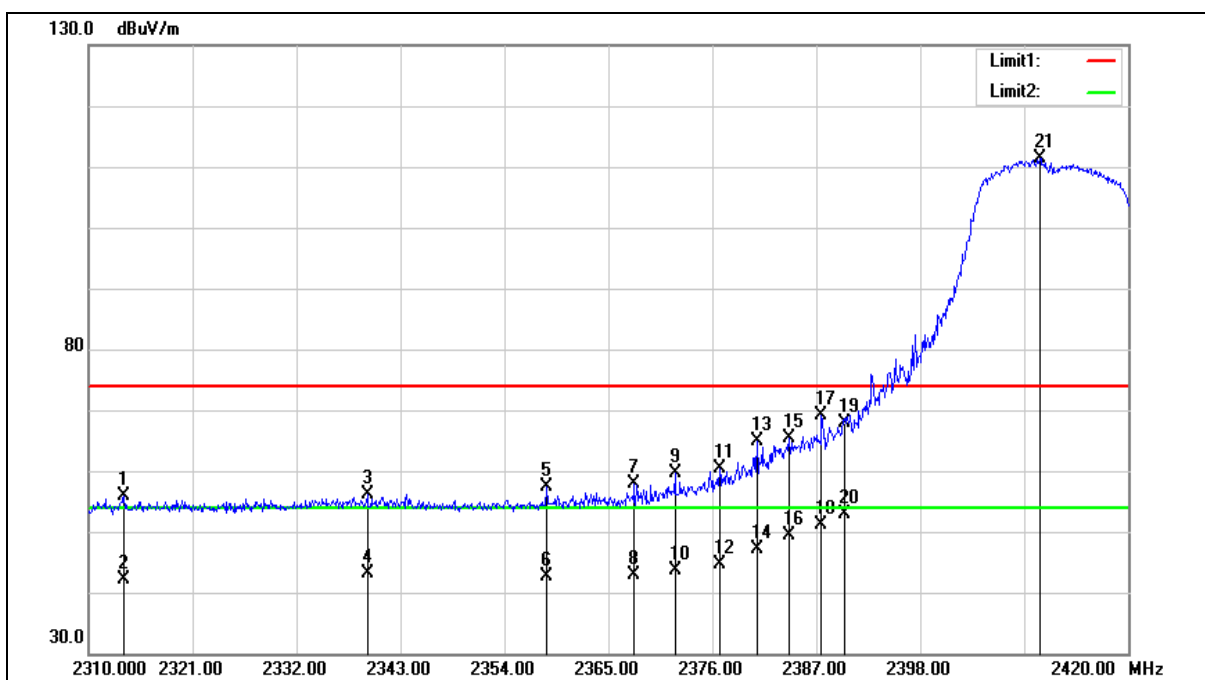
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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





Standard:	FCC Part 15.247	Test Distance:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412MHz	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	2313.740	57.02	-1.25	55.77	74.00	-18.23	peak
2	2313.740	43.40	-1.25	42.15	54.00	-11.85	AVG
3	2339.480	57.16	-1.13	56.03	74.00	-17.97	peak
4	2339.480	44.21	-1.13	43.08	54.00	-10.92	AVG
5	2358.510	58.51	-1.03	57.48	74.00	-16.52	peak
6	2358.510	43.70	-1.03	42.67	54.00	-11.33	AVG
7	2367.750	58.97	-0.99	57.98	74.00	-16.02	peak
8	2367.750	43.91	-0.99	42.92	54.00	-11.08	AVG
9	2372.040	60.52	-0.97	59.55	74.00	-14.45	peak
10	2372.040	44.57	-0.97	43.60	54.00	-10.40	AVG
11	2376.770	61.36	-0.94	60.42	74.00	-13.58	peak
12	2376.770	45.51	-0.94	44.57	54.00	-9.43	AVG
13	2380.730	65.85	-0.93	64.92	74.00	-9.08	peak
14	2380.730	48.00	-0.93	47.07	54.00	-6.93	AVG
15	2384.140	66.17	-0.90	65.27	74.00	-8.73	peak
16	2384.140	50.23	-0.90	49.33	54.00	-4.67	AVG
17	2387.550	70.05	-0.88	69.17	74.00	-4.83	peak
18	2387.550	51.98	-0.88	51.10	54.00	-2.90	AVG
19	2390.000	68.75	-0.87	67.88	74.00	-6.12	peak
20	2390.000	53.70	-0.87	52.83	54.00	-1.17	AVG
21	2410.650	112.12	-0.76	111.36	--	--	peak

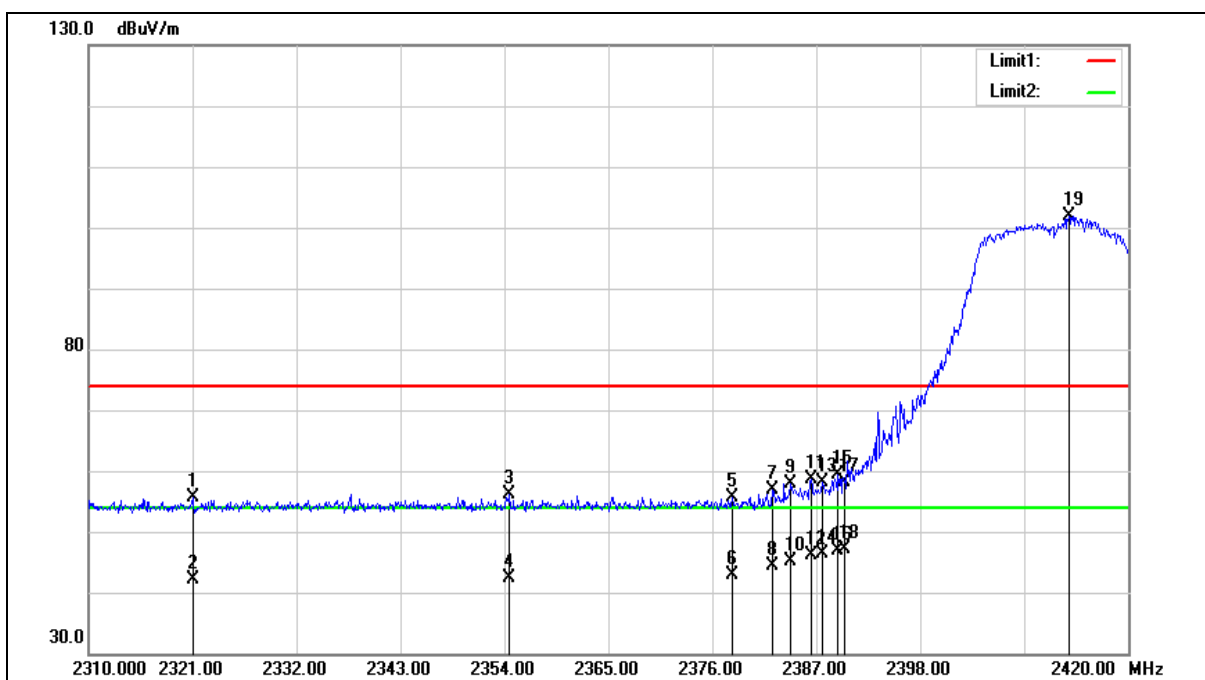
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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





Standard:	FCC Part 15.247	Test Distance:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412MHz	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	2321.000	56.89	-1.22	55.67	74.00	-18.33	peak
2	2321.000	43.44	-1.22	42.22	54.00	-11.78	AVG
3	2354.550	57.10	-1.04	56.06	74.00	-17.94	peak
4	2354.550	43.35	-1.04	42.31	54.00	-11.69	AVG
5	2378.090	56.59	-0.93	55.66	74.00	-18.34	peak
6	2378.090	43.83	-0.93	42.90	54.00	-11.10	AVG
7	2382.380	57.90	-0.91	56.99	74.00	-17.01	peak
8	2382.380	45.20	-0.91	44.29	54.00	-9.71	AVG
9	2384.250	58.70	-0.90	57.80	74.00	-16.20	peak
10	2384.250	46.15	-0.90	45.25	54.00	-8.75	AVG
11	2386.450	59.43	-0.90	58.53	74.00	-15.47	peak
12	2386.450	47.04	-0.90	46.14	54.00	-7.86	AVG
13	2387.660	58.93	-0.88	58.05	74.00	-15.95	peak
14	2387.660	47.19	-0.88	46.31	54.00	-7.69	AVG
15	2389.310	60.19	-0.88	59.31	74.00	-14.69	peak
16	2389.310	47.74	-0.88	46.86	54.00	-7.14	AVG
17	2390.000	59.05	-0.87	58.18	74.00	-15.82	peak
18	2390.000	47.99	-0.87	47.12	54.00	-6.88	AVG
19	2413.730	102.62	-0.75	101.87	--	--	peak

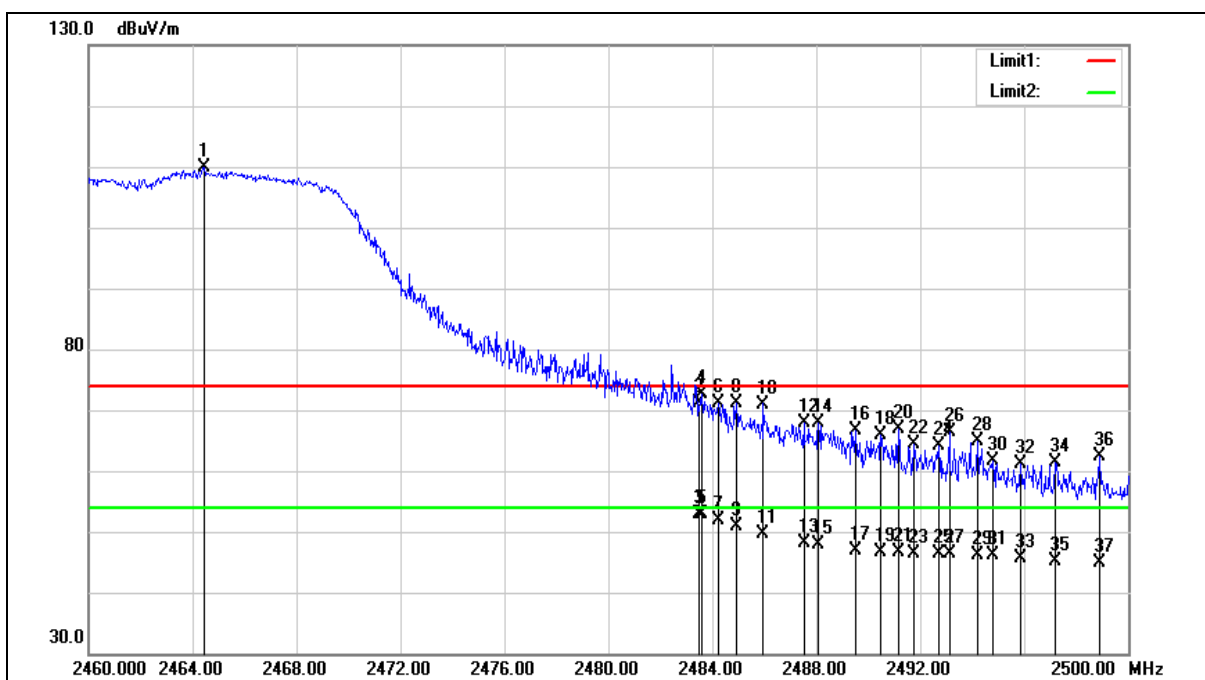
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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





Standard:	FCC Part 15.247	Test Distance:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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	2464.440	110.39	-0.49	109.90	--	--	peak
2	2483.500	71.64	-0.40	71.24	74.00	-2.76	peak
3	2483.500	53.30	-0.40	52.90	54.00	-1.10	AVG
4	2483.600	73.09	-0.40	72.69	74.00	-1.31	peak
5	2483.600	53.25	-0.40	52.85	54.00	-1.15	AVG
6	2484.240	71.50	-0.39	71.11	74.00	-2.89	peak
7	2484.240	52.27	-0.39	51.88	54.00	-2.12	AVG
8	2484.920	71.62	-0.39	71.23	74.00	-2.77	peak
9	2484.920	51.23	-0.39	50.84	54.00	-3.16	AVG
10	2485.960	71.38	-0.38	71.00	74.00	-3.00	peak
11	2485.960	49.91	-0.38	49.53	54.00	-4.47	AVG
12	2487.520	68.30	-0.37	67.93	74.00	-6.07	peak
13	2487.520	48.49	-0.37	48.12	54.00	-5.88	AVG
14	2488.080	68.17	-0.37	67.80	74.00	-6.20	peak
15	2488.080	48.19	-0.37	47.82	54.00	-6.18	AVG
16	2489.520	66.90	-0.37	66.53	74.00	-7.47	peak
17	2489.520	47.26	-0.37	46.89	54.00	-7.11	AVG
18	2490.480	66.30	-0.36	65.94	74.00	-8.06	peak
19	2490.480	47.01	-0.36	46.65	54.00	-7.35	AVG
20	2491.160	67.15	-0.36	66.79	74.00	-7.21	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:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

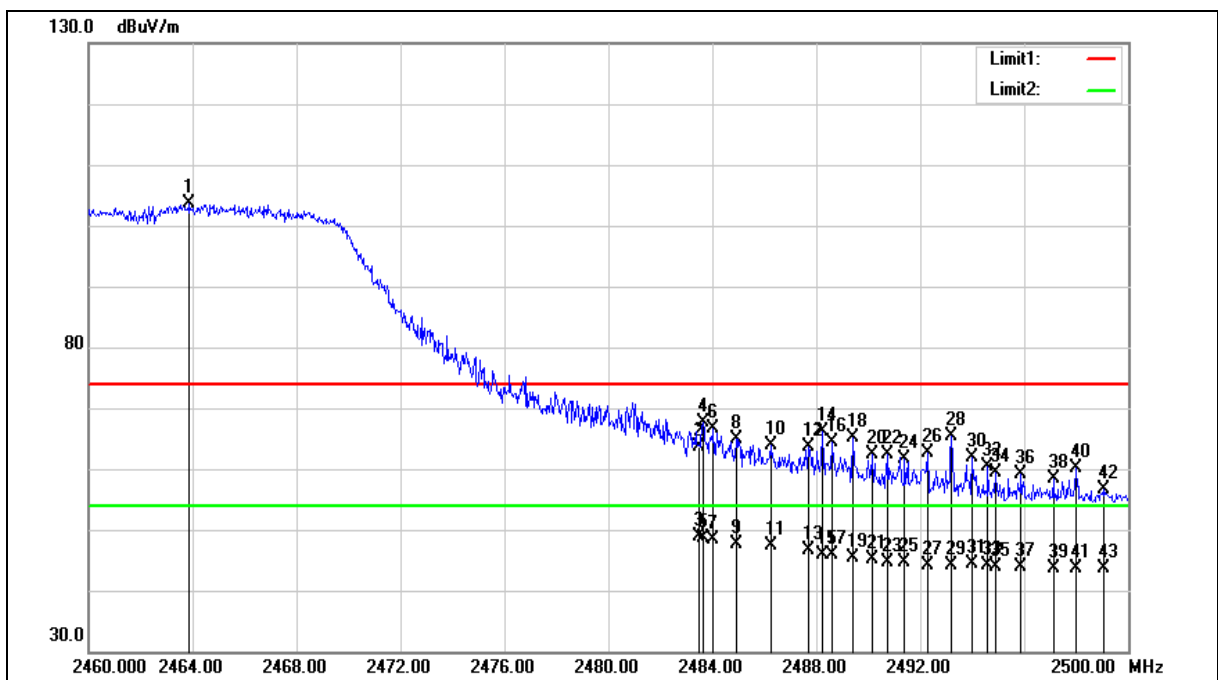
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
21	2491.160	47.02	-0.36	46.66	54.00	-7.34	AVG
22	2491.760	64.67	-0.35	64.32	74.00	-9.68	peak
23	2491.760	46.83	-0.35	46.48	54.00	-7.52	AVG
24	2492.720	64.57	-0.34	64.23	74.00	-9.77	peak
25	2492.720	46.83	-0.34	46.49	54.00	-7.51	AVG
26	2493.120	66.65	-0.34	66.31	74.00	-7.69	peak
27	2493.120	46.63	-0.34	46.29	54.00	-7.71	AVG
28	2494.200	65.27	-0.34	64.93	74.00	-9.07	peak
29	2494.200	46.43	-0.34	46.09	54.00	-7.91	AVG
30	2494.800	61.90	-0.34	61.56	74.00	-12.44	peak
31	2494.800	46.44	-0.34	46.10	54.00	-7.90	AVG
32	2495.880	61.34	-0.33	61.01	74.00	-12.99	peak
33	2495.880	45.97	-0.33	45.64	54.00	-8.36	AVG
34	2497.200	61.66	-0.32	61.34	74.00	-12.66	peak
35	2497.200	45.46	-0.32	45.14	54.00	-8.86	AVG
36	2498.920	62.69	-0.31	62.38	74.00	-11.62	peak
37	2498.920	45.14	-0.31	44.83	54.00	-9.17	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:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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	2463.880	104.00	-0.49	103.51	--	--	peak
2	2483.500	64.10	-0.40	63.70	74.00	-10.30	peak
3	2483.500	49.17	-0.40	48.77	54.00	-5.23	AVG
4	2483.640	68.06	-0.40	67.66	74.00	-6.34	peak
5	2483.640	49.15	-0.40	48.75	54.00	-5.25	AVG
6	2484.040	67.03	-0.39	66.64	74.00	-7.36	peak
7	2484.040	48.74	-0.39	48.35	54.00	-5.65	AVG
8	2484.920	65.32	-0.39	64.93	74.00	-9.07	peak
9	2484.920	47.98	-0.39	47.59	54.00	-6.41	AVG
10	2486.240	64.26	-0.38	63.88	74.00	-10.12	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:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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
11	2486.240	47.66	-0.38	47.28	54.00	-6.72	AVG
12	2487.680	63.90	-0.37	63.53	74.00	-10.47	peak
13	2487.680	46.91	-0.37	46.54	54.00	-7.46	AVG
14	2488.240	66.44	-0.37	66.07	74.00	-7.93	peak
15	2488.240	46.29	-0.37	45.92	54.00	-8.08	AVG
16	2488.600	64.78	-0.37	64.41	74.00	-9.59	peak
17	2488.600	46.37	-0.37	46.00	54.00	-8.00	AVG
18	2489.400	65.40	-0.37	65.03	74.00	-8.97	peak
19	2489.400	45.70	-0.37	45.33	54.00	-8.67	AVG
20	2490.160	62.62	-0.36	62.26	74.00	-11.74	peak
21	2490.160	45.49	-0.36	45.13	54.00	-8.87	AVG
22	2490.760	62.74	-0.36	62.38	74.00	-11.62	peak
23	2490.760	45.04	-0.36	44.68	54.00	-9.32	AVG
24	2491.400	61.91	-0.35	61.56	74.00	-12.44	peak
25	2491.400	44.94	-0.35	44.59	54.00	-9.41	AVG
26	2492.280	63.03	-0.35	62.68	74.00	-11.32	peak
27	2492.280	44.53	-0.35	44.18	54.00	-9.82	AVG
28	2493.200	65.77	-0.34	65.43	74.00	-8.57	peak
29	2493.200	44.53	-0.34	44.19	54.00	-9.81	AVG
30	2494.000	62.31	-0.34	61.97	74.00	-12.03	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:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

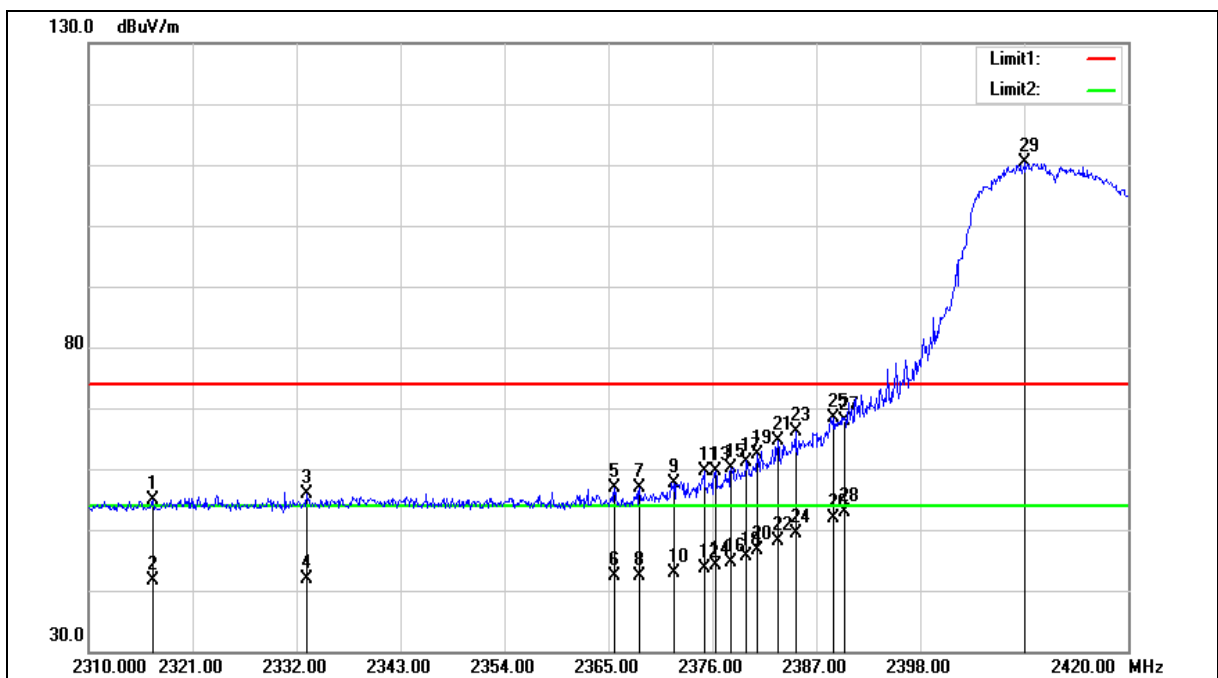
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
31	2494.000	44.66	-0.34	44.32	54.00	-9.68	AVG
32	2494.600	60.83	-0.34	60.49	74.00	-13.51	peak
33	2494.600	44.45	-0.34	44.11	54.00	-9.89	AVG
34	2494.880	59.76	-0.34	59.42	74.00	-14.58	peak
35	2494.880	44.33	-0.34	43.99	54.00	-10.01	AVG
36	2495.880	59.48	-0.33	59.15	74.00	-14.85	peak
37	2495.880	44.11	-0.33	43.78	54.00	-10.22	AVG
38	2497.120	58.62	-0.32	58.30	74.00	-15.70	peak
39	2497.120	43.96	-0.32	43.64	54.00	-10.36	AVG
40	2498.000	60.55	-0.32	60.23	74.00	-13.77	peak
41	2498.000	43.90	-0.32	43.58	54.00	-10.42	AVG
42	2499.080	56.89	-0.31	56.58	74.00	-17.42	peak
43	2499.080	43.89	-0.31	43.58	54.00	-10.42	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:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412MHz	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	2316.820	56.04	-1.24	54.80	74.00	-19.20	peak
2	2316.820	42.80	-1.24	41.56	54.00	-12.44	AVG
3	2333.100	56.92	-1.16	55.76	74.00	-18.24	peak
4	2333.100	43.14	-1.16	41.98	54.00	-12.02	AVG
5	2365.660	57.99	-1.00	56.99	74.00	-17.01	peak
6	2365.660	43.31	-1.00	42.31	54.00	-11.69	AVG
7	2368.300	57.80	-0.99	56.81	74.00	-17.19	peak
8	2368.300	43.32	-0.99	42.33	54.00	-11.67	AVG
9	2371.930	58.48	-0.97	57.51	74.00	-16.49	peak
10	2371.930	43.88	-0.97	42.91	54.00	-11.09	AVG

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

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

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



Standard:	FCC Part 15.247	Test Distance:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2412MHz	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
11	2375.120	60.46	-0.94	59.52	74.00	-14.48	peak
12	2375.120	44.58	-0.94	43.64	54.00	-10.36	AVG
13	2376.330	60.68	-0.94	59.74	74.00	-14.26	peak
14	2376.330	44.96	-0.94	44.02	54.00	-9.98	AVG
15	2377.980	61.09	-0.93	60.16	74.00	-13.84	peak
16	2377.980	45.67	-0.93	44.74	54.00	-9.26	AVG
17	2379.630	62.18	-0.93	61.25	74.00	-12.75	peak
18	2379.630	46.66	-0.93	45.73	54.00	-8.27	AVG
19	2380.730	63.38	-0.93	62.45	74.00	-11.55	peak
20	2380.730	47.45	-0.93	46.52	54.00	-7.48	AVG
21	2382.930	65.60	-0.91	64.69	74.00	-9.31	peak
22	2382.930	49.15	-0.91	48.24	54.00	-5.76	AVG
23	2384.800	66.99	-0.90	66.09	74.00	-7.91	peak
24	2384.800	50.40	-0.90	49.50	54.00	-4.50	AVG
25	2388.870	69.29	-0.88	68.41	74.00	-5.59	peak
26	2388.870	52.86	-0.88	51.98	54.00	-2.02	AVG
27	2390.000	68.80	-0.87	67.93	74.00	-6.07	peak
28	2390.000	53.63	-0.87	52.76	54.00	-1.24	AVG
29	2409.110	111.05	-0.78	110.27	--	--	peak

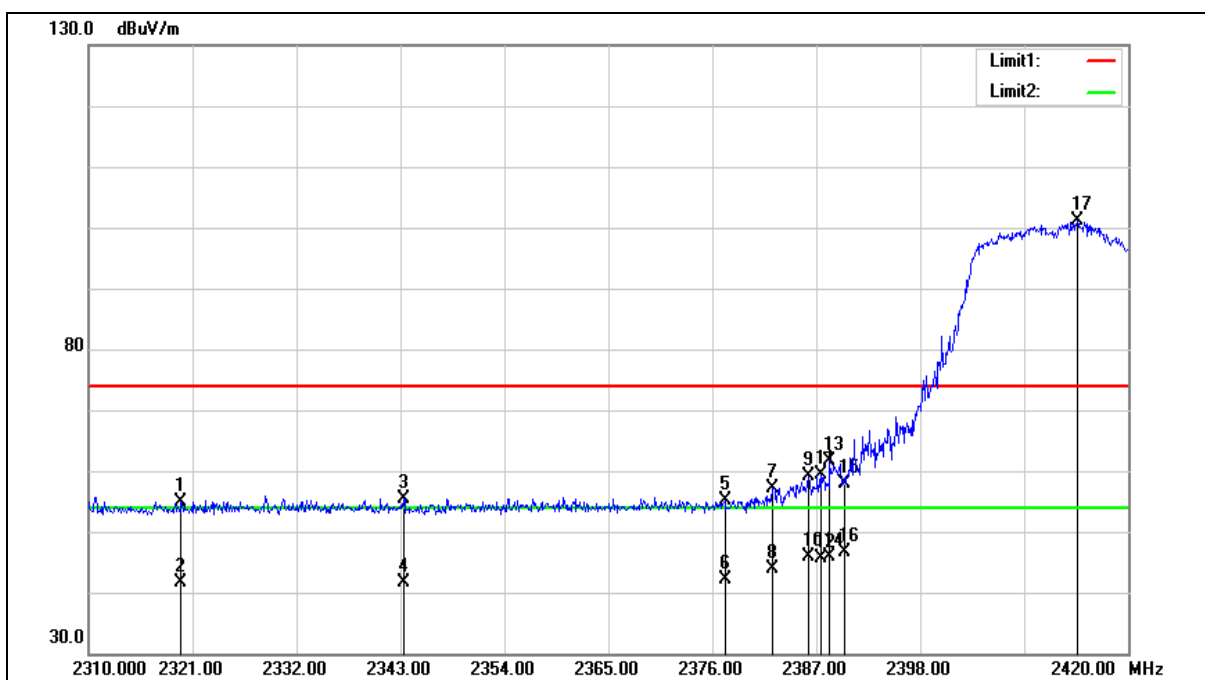
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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





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

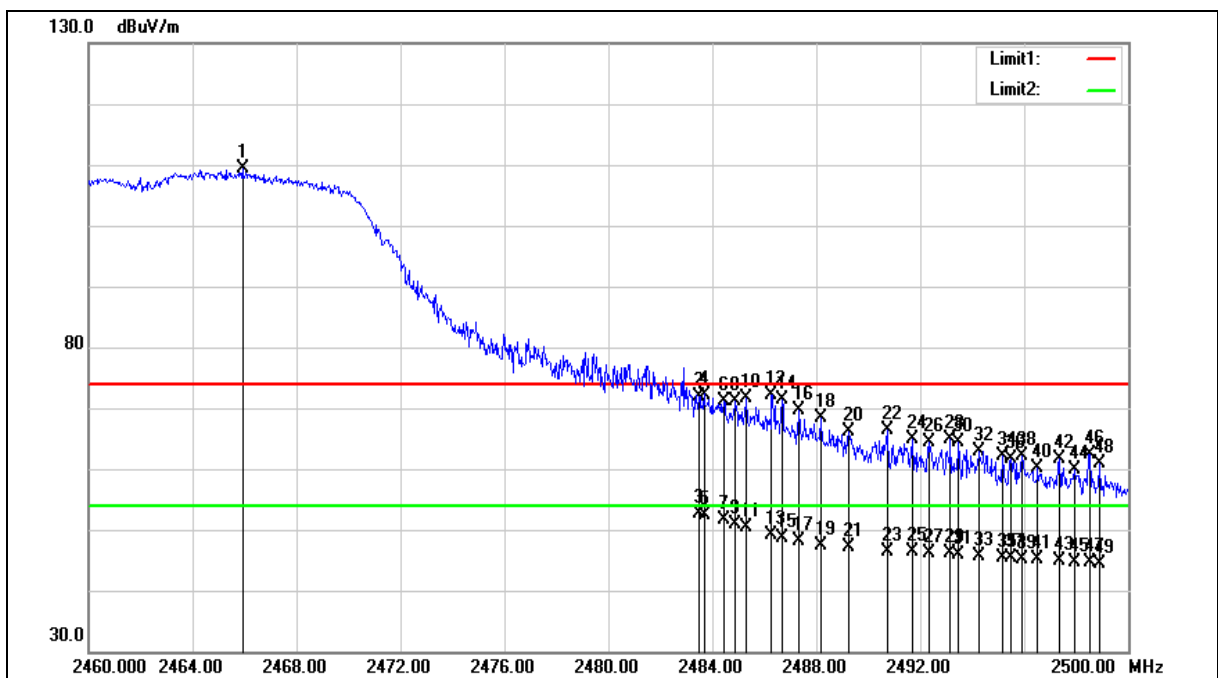
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2319.790	56.11	-1.22	54.89	74.00	-19.11	peak
2	2319.790	42.75	-1.22	41.53	54.00	-12.47	AVG
3	2343.330	56.57	-1.10	55.47	74.00	-18.53	peak
4	2343.330	42.80	-1.10	41.70	54.00	-12.30	AVG
5	2377.320	56.15	-0.94	55.21	74.00	-18.79	peak
6	2377.320	43.04	-0.94	42.10	54.00	-11.90	AVG
7	2382.380	57.97	-0.91	57.06	74.00	-16.94	peak
8	2382.380	44.72	-0.91	43.81	54.00	-10.19	AVG
9	2386.230	59.99	-0.90	59.09	74.00	-14.91	peak
10	2386.230	46.75	-0.90	45.85	54.00	-8.15	AVG
11	2387.440	60.15	-0.88	59.27	74.00	-14.73	peak
12	2387.440	46.58	-0.88	45.70	54.00	-8.30	AVG
13	2388.430	62.41	-0.88	61.53	74.00	-12.47	peak
14	2388.430	46.86	-0.88	45.98	54.00	-8.02	AVG
15	2390.000	58.71	-0.87	57.84	74.00	-16.16	peak
16	2390.000	47.56	-0.87	46.69	54.00	-7.31	AVG
17	2414.610	101.90	-0.75	101.15	--	--	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:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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	2465.920	109.75	-0.49	109.26	--	--	peak
2	2483.500	72.18	-0.40	71.78	74.00	-2.22	peak
3	2483.500	53.13	-0.40	52.73	54.00	-1.27	AVG
4	2483.680	72.65	-0.40	72.25	74.00	-1.75	peak
5	2483.680	52.88	-0.40	52.48	54.00	-1.52	AVG
6	2484.440	71.50	-0.39	71.11	74.00	-2.89	peak
7	2484.440	51.90	-0.39	51.51	54.00	-2.49	AVG
8	2484.880	71.47	-0.39	71.08	74.00	-2.92	peak
9	2484.880	51.30	-0.39	50.91	54.00	-3.09	AVG
10	2485.320	71.97	-0.39	71.58	74.00	-2.42	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:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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
11	2485.320	50.72	-0.39	50.33	54.00	-3.67	AVG
12	2486.280	72.51	-0.38	72.13	74.00	-1.87	peak
13	2486.280	49.55	-0.38	49.17	54.00	-4.83	AVG
14	2486.680	71.66	-0.38	71.28	74.00	-2.72	peak
15	2486.680	49.10	-0.38	48.72	54.00	-5.28	AVG
16	2487.320	69.89	-0.37	69.52	74.00	-4.48	peak
17	2487.320	48.49	-0.37	48.12	54.00	-5.88	AVG
18	2488.160	68.84	-0.37	68.47	74.00	-5.53	peak
19	2488.160	47.83	-0.37	47.46	54.00	-6.54	AVG
20	2489.240	66.41	-0.37	66.04	74.00	-7.96	peak
21	2489.240	47.48	-0.37	47.11	54.00	-6.89	AVG
22	2490.720	66.85	-0.36	66.49	74.00	-7.51	peak
23	2490.720	46.81	-0.36	46.45	54.00	-7.55	AVG
24	2491.720	65.11	-0.35	64.76	74.00	-9.24	peak
25	2491.720	46.61	-0.35	46.26	54.00	-7.74	AVG
26	2492.360	64.82	-0.35	64.47	74.00	-9.53	peak
27	2492.360	46.52	-0.35	46.17	54.00	-7.83	AVG
28	2493.160	65.14	-0.34	64.80	74.00	-9.20	peak
29	2493.160	46.35	-0.34	46.01	54.00	-7.99	AVG
30	2493.480	64.71	-0.34	64.37	74.00	-9.63	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:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

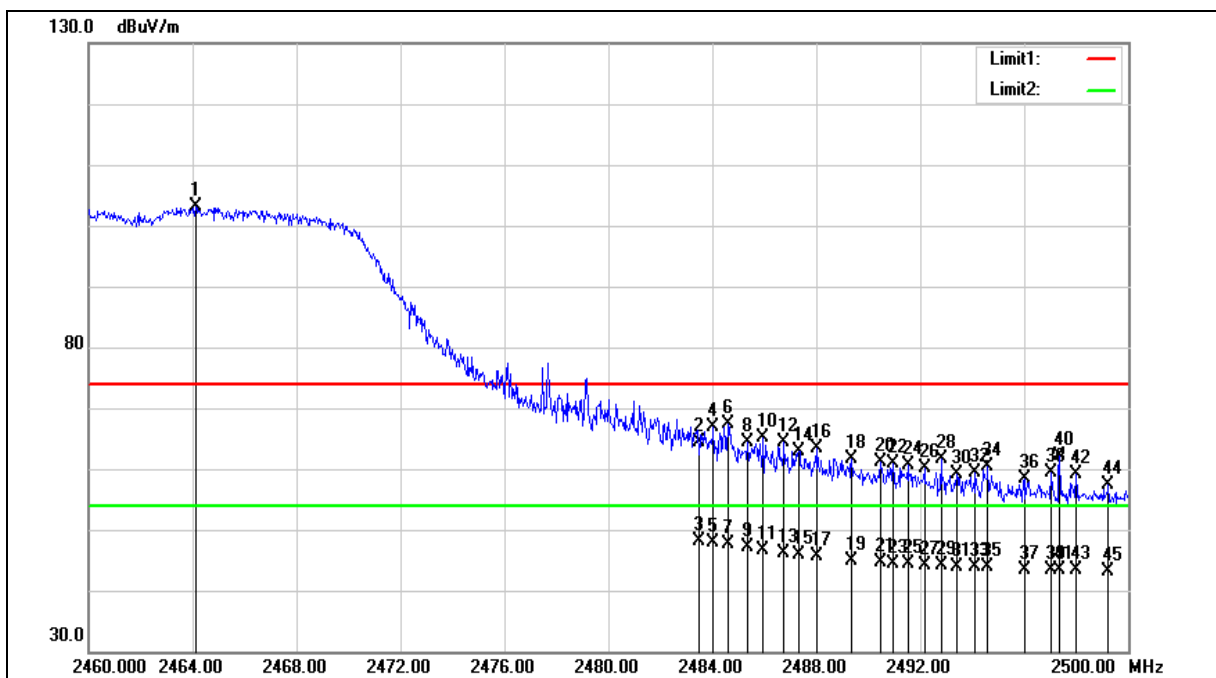
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
31	2493.480	46.28	-0.34	45.94	54.00	-8.06	AVG
32	2494.240	63.16	-0.34	62.82	74.00	-11.18	peak
33	2494.240	46.06	-0.34	45.72	54.00	-8.28	AVG
34	2495.160	62.39	-0.34	62.05	74.00	-11.95	peak
35	2495.160	45.81	-0.34	45.47	54.00	-8.53	AVG
36	2495.480	62.01	-0.34	61.67	74.00	-12.33	peak
37	2495.480	45.66	-0.34	45.32	54.00	-8.68	AVG
38	2495.920	62.51	-0.33	62.18	74.00	-11.82	peak
39	2495.920	45.54	-0.33	45.21	54.00	-8.79	AVG
40	2496.520	60.44	-0.33	60.11	74.00	-13.89	peak
41	2496.520	45.38	-0.33	45.05	54.00	-8.95	AVG
42	2497.360	61.84	-0.32	61.52	74.00	-12.48	peak
43	2497.360	45.15	-0.32	44.83	54.00	-9.17	AVG
44	2497.960	60.10	-0.32	59.78	74.00	-14.22	peak
45	2497.960	45.02	-0.32	44.70	54.00	-9.30	AVG
46	2498.520	62.70	-0.32	62.38	74.00	-11.62	peak
47	2498.520	44.88	-0.32	44.56	54.00	-9.44	AVG
48	2498.880	61.14	-0.31	60.83	74.00	-13.17	peak
49	2498.880	44.79	-0.31	44.48	54.00	-9.52	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:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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	2464.120	103.56	-0.49	103.07	--	--	peak
2	2483.500	64.90	-0.40	64.50	74.00	-9.50	peak
3	2483.500	48.62	-0.40	48.22	54.00	-5.78	AVG
4	2484.040	67.23	-0.39	66.84	74.00	-7.16	peak
5	2484.040	48.33	-0.39	47.94	54.00	-6.06	AVG
6	2484.600	67.68	-0.39	67.29	74.00	-6.71	peak
7	2484.600	48.03	-0.39	47.64	54.00	-6.36	AVG
8	2485.360	64.65	-0.39	64.26	74.00	-9.74	peak
9	2485.360	47.47	-0.39	47.08	54.00	-6.92	AVG
10	2485.960	65.61	-0.38	65.23	74.00	-8.77	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:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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
11	2485.960	47.11	-0.38	46.73	54.00	-7.27	AVG
12	2486.760	64.88	-0.38	64.50	74.00	-9.50	peak
13	2486.760	46.61	-0.38	46.23	54.00	-7.77	AVG
14	2487.320	63.30	-0.37	62.93	74.00	-11.07	peak
15	2487.320	46.27	-0.37	45.90	54.00	-8.10	AVG
16	2488.040	63.71	-0.37	63.34	74.00	-10.66	peak
17	2488.040	45.88	-0.37	45.51	54.00	-8.49	AVG
18	2489.360	62.10	-0.37	61.73	74.00	-12.27	peak
19	2489.360	45.35	-0.37	44.98	54.00	-9.02	AVG
20	2490.480	61.43	-0.36	61.07	74.00	-12.93	peak
21	2490.480	44.91	-0.36	44.55	54.00	-9.45	AVG
22	2490.960	61.22	-0.36	60.86	74.00	-13.14	peak
23	2490.960	44.81	-0.36	44.45	54.00	-9.55	AVG
24	2491.520	61.05	-0.35	60.70	74.00	-13.30	peak
25	2491.520	44.66	-0.35	44.31	54.00	-9.69	AVG
26	2492.160	60.36	-0.35	60.01	74.00	-13.99	peak
27	2492.160	44.52	-0.35	44.17	54.00	-9.83	AVG
28	2492.800	62.06	-0.34	61.72	74.00	-12.28	peak
29	2492.800	44.42	-0.34	44.08	54.00	-9.92	AVG
30	2493.400	59.48	-0.34	59.14	74.00	-14.86	peak

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

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

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



Standard:	FCC Part 15.247	Test Distance:	3m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	2462MHz	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
31	2493.400	44.32	-0.34	43.98	54.00	-10.02	AVG
32	2494.120	59.83	-0.34	59.49	74.00	-14.51	peak
33	2494.120	44.20	-0.34	43.86	54.00	-10.14	AVG
34	2494.600	60.60	-0.34	60.26	74.00	-13.74	peak
35	2494.600	44.13	-0.34	43.79	54.00	-10.21	AVG
36	2496.000	58.62	-0.33	58.29	74.00	-15.71	peak
37	2496.000	43.83	-0.33	43.50	54.00	-10.50	AVG
38	2497.040	59.72	-0.33	59.39	74.00	-14.61	peak
39	2497.040	43.76	-0.33	43.43	54.00	-10.57	AVG
40	2497.360	62.40	-0.32	62.08	74.00	-11.92	peak
41	2497.360	43.72	-0.32	43.40	54.00	-10.60	AVG
42	2498.000	59.39	-0.32	59.07	74.00	-14.93	peak
43	2498.000	43.67	-0.32	43.35	54.00	-10.65	AVG
44	2499.240	57.61	-0.31	57.30	74.00	-16.70	peak
45	2499.240	43.56	-0.31	43.25	54.00	-10.75	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.

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