RF Test Report

Applicant	:	Ring LLC
Product Type	:	Video Doorbell 3
Trade Name	:	Ring
Model Number	:	5UM6E5
Test Specification	:	FCC 47 CFR PART 15 SUBPART E ANSI C63.10:2013
Receive Date	:	Sep. 02, 2019
Test Period	:	Sep. 05 ~ Sep. 12, 2019
Issue Date	:	Sep. 20, 2019

Issue by

A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330
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.
2.This report shall not be reproduced except in full, without the written approval of A Test Lab Technology Corporation.
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.	Issue Date	Revisions	Revised By
00	Sep. 20, 2019	Initial Issue	Nina Lin

Verification of Compliance

Issued Date: Sep. 20, 2019

Applicant	:	Ring LLC
Product Type	:	Video Doorbell 3
Trade Name	:	Ring
Model Number	:	5UM6E5
FCC ID	:	2AEUPBHARG051
EUT Rated Voltage	:	AC 8-24 V, 50/60 Hz, 200 mA
Test Voltage	:	AC 24 V
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART E ANSI C63.10:2013
Test Result	:	Complied
Performing Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade District, Taoyuan City 33465, Taiwan (R.O.C.) Tel：+86-3-2710188 / Fax：+86-3-2710190 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	Reviewed By	: Ken Yang
(Manager)	(Fly Lu)	(Testing Engineer)	(Ken Yang)

TABLE OF CONTENTS

1 General Information 5
1.1. Summary of Test Result 5
1.2. Measurement Uncertainty 6
2 EUT Description 7
3 Test Methodology 9
3.1. Mode of Operation 9
3.2. EUT Test Step 12
3.3. Configuration of Test System Details 13
3.4. Test Instruments 14
3.5. Test Site Environment 15
4 Measurement Procedure 16
4.1. AC Power Conducted Emission Measurement 16
4.2. Transmitter Radiated Emissions Measurement 18
4.3. Maximum Conducted Output Power Measurement 23
4.4. 26 dB RF Bandwidth Measurement 24
4.5. 6 dB RF Bandwidth Measurement 25
4.6. Maximum Power Spectral Density Measurement 26
4.7. Automatically discontinue transmission 28
4.8. Antenna Requirement 28
5 Test Results 29
Annex A. Conducted Emission 29
Annex B. Radiated Emission Measurement 31
Annex C. Conducted Test Results 224

1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
15.407(b)(6) 15.207	AC Power Conducted Emission	PASS	---
15.407(b) 15.205 / 15.209	Transmitter Radiated Emissions	PASS	---
15.407(a)	Maximum Conducted Output Power	PASS	---
15.407(a)	26 dB RF Bandwidth	Reference	---
15.407(e)	6 dB RF Bandwidth	PASS	---
15.407(a)	Maximum Power Spectral Density	PASS	---
15.407(c)	Automatically discontinue transmission	PASS	---
15.407(a) 15.203	Antenna Requirement	PASS	---

Standard	Description
CFR47, Part 15, Subpart C	Intentional Radiators
CFR47, Part 15, Subpart E	Unlicensed National Information Infrastructure Devices
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB789033: D02	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
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	2.8
Radiated Emission	9 kHz ~ 30 MHz	1.7
	30 MHz ~ 1000 MHz	5.7
	1000 MHz ~ 18000 MHz	5.6
	18000 MHz ~ 26500 MHz	4.9
	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
Frequency Stability		+ 2.212 x 10-7 % / - 2.170 x 10-7
Duty Cycle		1.06 %
Time Occupancy		1.40 %

Decision Rule

■ Uncertainty is not included.

□ Uncertainty is included.

2 EUT Description

Applicant	Ring LLC 1523 26th Street, Santa Monica CA 90404, United States			
Manufacturer	Ring Inc. 1523 26th Street, Santa Monica CA 90404, United States			
Product Type	Video Doorbell 3			
Trade Name	Ring			
Model No.	5UM6E5			
FCC ID	2AEUPBHARG051			
Operate Frequency	Frequency Band		Frequency Range (MHz)	Number of Channels
	IEEE 802.11a	U-NII Band I	5180 – 5240	3
		U-NII Band II-A	5260 – 5320	3
		U-NII Band II-C	5500 – 5720	4
		U-NII Band III	5720 – 5825	4
	IEEE 802.11n 5 GHz 20 MHz	U-NII Band I	5180 – 5240	3
		U-NII Band II-A	5260 – 5320	3
		U-NII Band II-C	5500 – 5720	4
		U-NII Band III	5720 – 5825	4
	IEEE 802.11n 5 GHz 40 MHz	U-NII Band I	5190 – 5230	2
		U-NII Band II-A	5270 – 5310	2
		U-NII Band II-C	5510 – 5710	4
		U-NII Band III	5710 – 5795	3
Modulation Type	OFDM			
Equipment Type	Client without radar detection			
Antenna information	ANT	Model Number	Type	Max. Gain (dBi)
	ANT-0	RFPCA491914EMLB301	PCB Antenna	5.22
	ANT-1	RFPCA491914EMLB303	PCB Antenna	5.26
Antenna Delivery	Reference section 3.1			
Operate Temp. Range	-20 ~ 50 ℃			

Frequency Band		RF Output Power (W)
IEEE 802.11a	U-NII Band I	0.023
	U-NII Band II-A	0.022
	U-NII Band II-C	0.025
	U-NII Band III	0.025
IEEE 802.11n 5 GHz 20 MHz	U-NII Band I	0.022
	U-NII Band II-A	0.021
	U-NII Band II-C	0.024
	U-NII Band III	0.024
IEEE 802.11n 5 GHz 40 MHz	U-NII Band I	0.018
	U-NII Band II-A	0.017
	U-NII Band II-C	0.022
	U-NII Band III	0.020

Equipment Type		
Outdoor access point	point-to-point	---
	point-to-multipoint	---
Indoor access point		---
Fixed point-to-point access points		---
Client devices		V

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 802.11a Continuous TX mode
Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX mode
Mode 4: IEEE 802.11n 5 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.

Note: ANT-1 is the worst case in Mode 2 / Mode 3 / Mode 4.

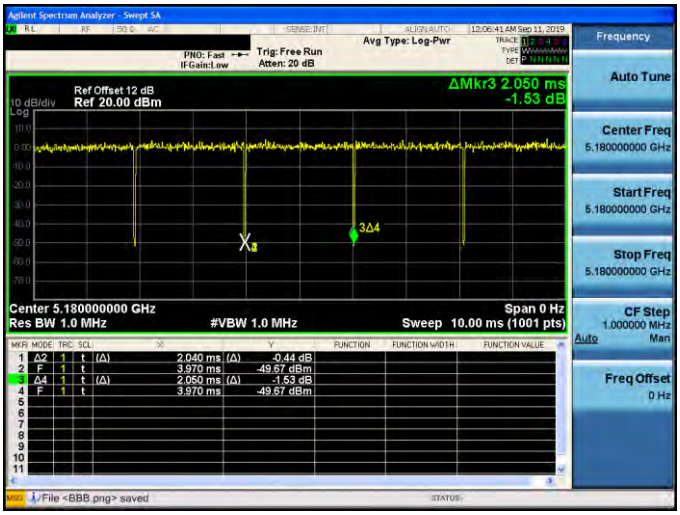
Test Mode	ANT-0	ANT-1	ANT-0+1
Mode 2	V	V	---
Mode 3	V	V	---
Mode 4	V	V	---

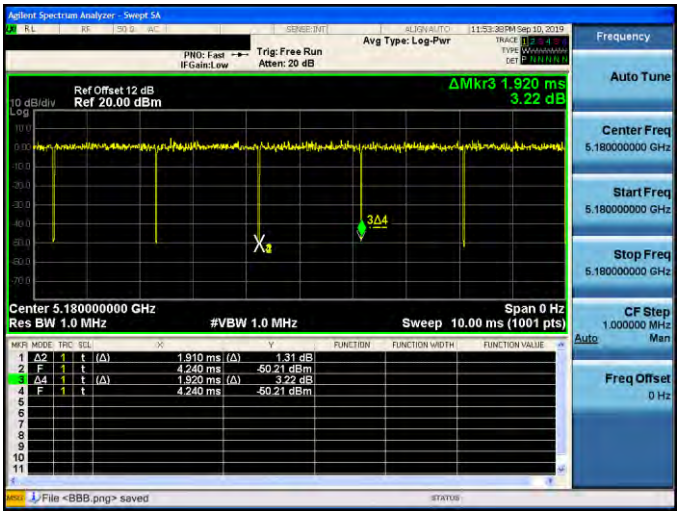
Test Mode	Antenna Delivery	Data Rate (Mbps)	Band	Test Channel
Mode 2	1TX (Diversity)	6	U-NII Band I	36, 40, 48
			U-NII Band II-A	52, 56, 64
			U-NII Band II-C	100, 112, 140, 144
			U-NII Band III	144, 149, 157, 165
Mode 3	1TX (Diversity)	6.5	U-NII Band I	36, 40, 48
			U-NII Band II-A	52, 56, 64
			U-NII Band II-C	100, 112, 140, 144
			U-NII Band III	144, 149, 157, 165
Mode 4	1TX (Diversity)	13.5	U-NII Band I	38, 46
			U-NII Band II-A	54, 62
			U-NII Band II-C	102, 110, 134, 142
			U-NII Band III	142, 151, 159

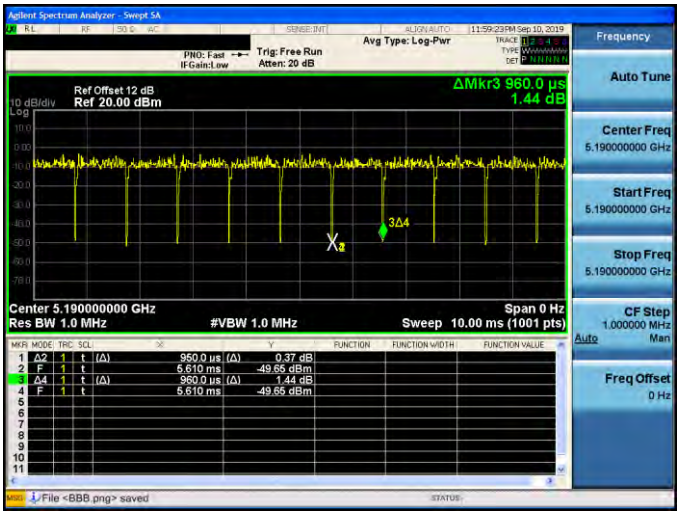
Duty cycle

Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2	5180.0	2.040	2.050	0.995	0.021	0.010
Mode 3	5180.0	1.910	1.920	0.995	0.023	0.010
Mode 4	5190.0	0.950	0.960	0.990	0.045	0.010

Duty Cycle Graphs

Mode 2: IEEE 802.11a Continuous TX mode	
On+off time	

Mode 3: IEEE 802.11n 5 GHz 20 MHz Continuous TX mode	
On+off time	

Mode 4: IEEE 802.11n 5 GHz 40 MHz Continuous TX mode	
On+off time	

3.2. EUT Test Step

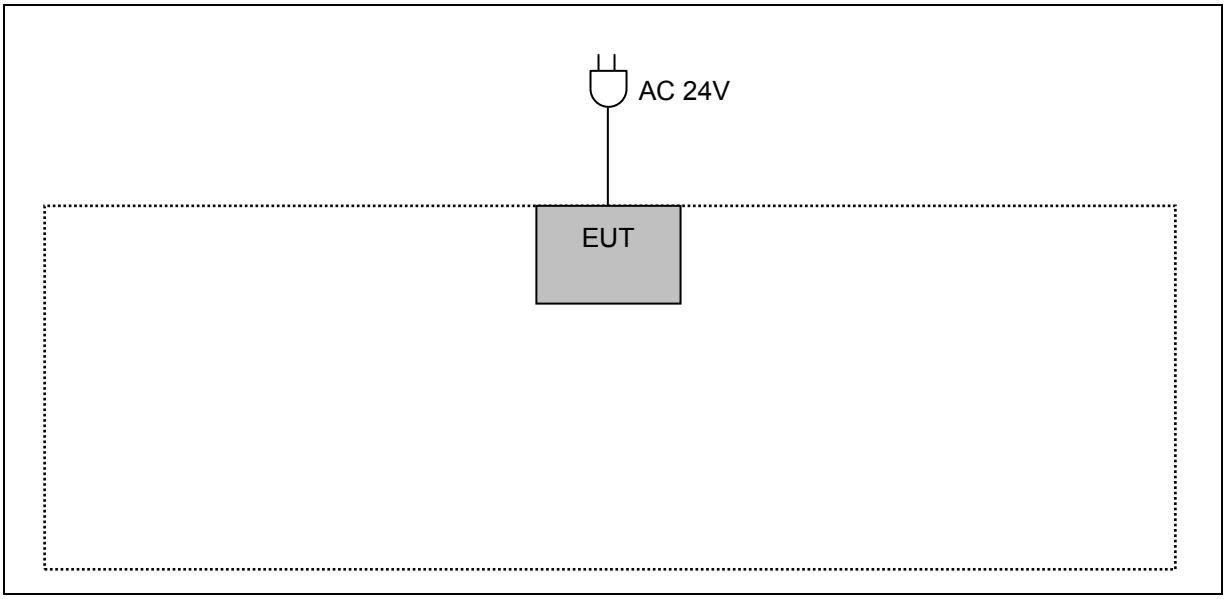
The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement. According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

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.

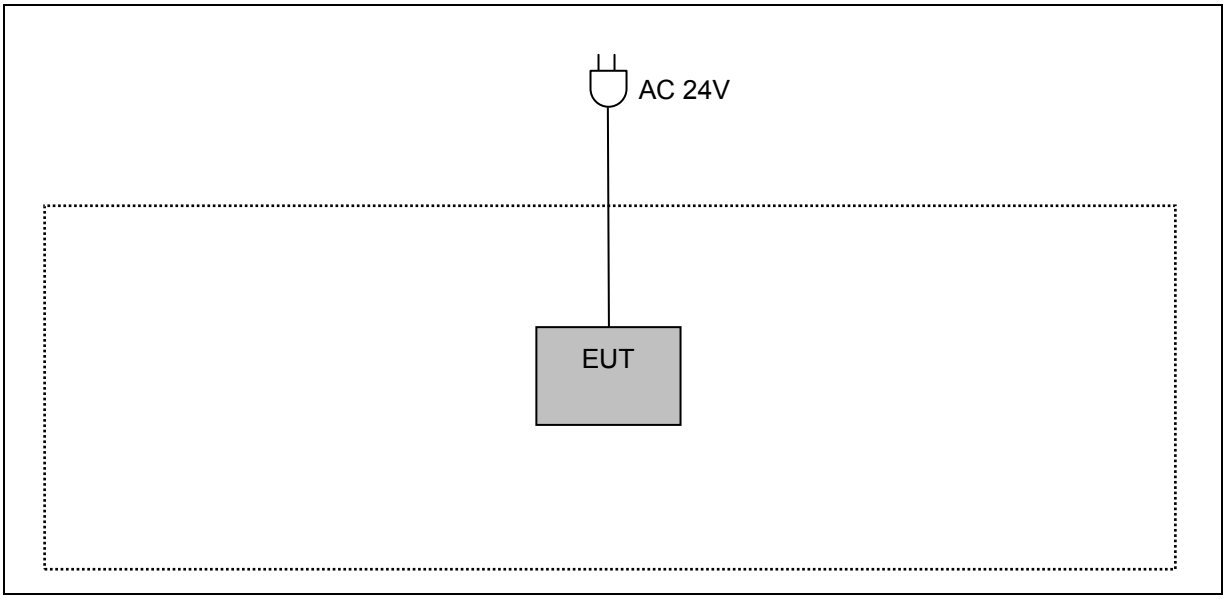
Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

3.3. Configuration of Test System Details

Conducted Emission



Radiated Emission



Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	---	---	---	---	---

3.4. Test Instruments

For Conducted Emission
Test Period: Sep. 12, 2019

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	05/23/2019	1 year
LISN	R&S	ENV216	101040	04/03/2019	1 year
LISN	R&S	ENV216	101041	03/28/2019	1 year
RF Cable	Woken	00100D1380194M	TE-02-03	05/23/2019	1 year

For Radiated Emissions
Test Period: Sep. 05 ~ Sep. 08, 2019

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	01/14/2019	1 year
Pre Amplifier (1~26.5 GHz)	Agilent	8449B	3008A02237	10/16/2018	1 year
Pre Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	01/14/2019	1 year
Pre Amplifier (26.5~40 GHz)	EMCI	EMC2654045	980028	08/23/2019	1 year
Broadband Antenna	Schwarzbeck	VULB9168	416	10/19/2018	1 year
Horn Antenna (1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	08/22/2019	1 year
Horn Antenna (18~40 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	08/14/2019	1 year
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	03/29/2019	1 year
RF Cable	EMCI	EMC104-N-N-6000	TE01-1	02/20/2019	1 year
Microwave Cable	EMCI	EMC104-SM-SM-13000	170814	10/30/2018	1 year
Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	02/20/2019	1 year

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

For Conducted
Test Period: Sep. 10 ~ Sep. 11, 2019

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Power Sensor	Anritsu	MA2411B	1126022	09/02/2019	1 year
Power Meter	Anritsu	ML2495A	1135009	09/02/2019	1 year
Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	09/25/2018	1 year
Microwave Cable	EMCI	EMC102-SM-SM1500	001	11/21/2018	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

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

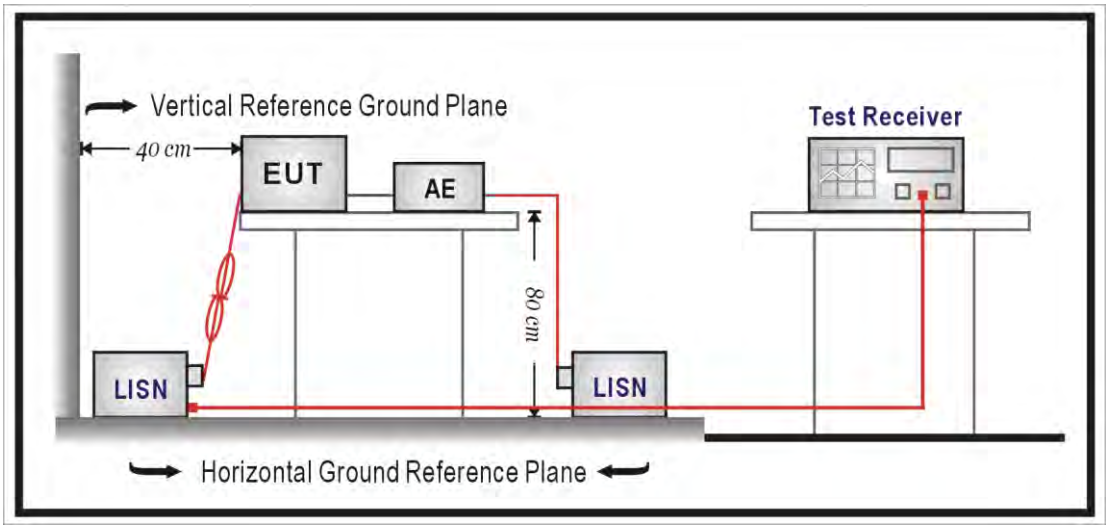
4 Measurement Procedure

4.1. AC Power 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 Ω// 50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 Ω// 50 uH 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 Ω ports of the LISN shall be resistively terminated into 50 Ω 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. Transmitter Radiated Emissions Measurement

■ **Limit**

(1)Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(a)For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(b)For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(c)For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(d)For transmitters operating in the 5.725-5.85 GHz band:

(i)All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2)Limits of Radiated Emission Measurement

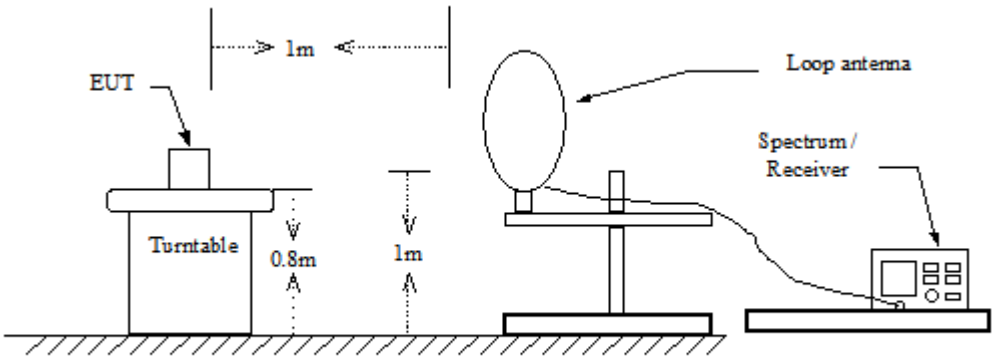
Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequency Range (MHz)	Field Strength (microvolts/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	10	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

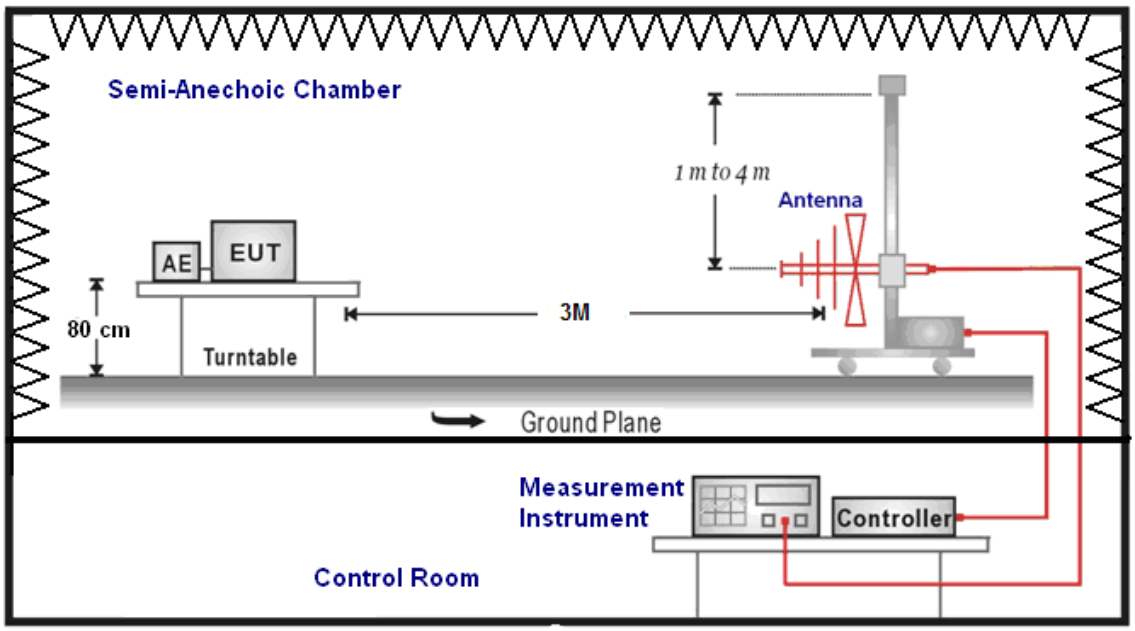
Note: 1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

■ **Setup**

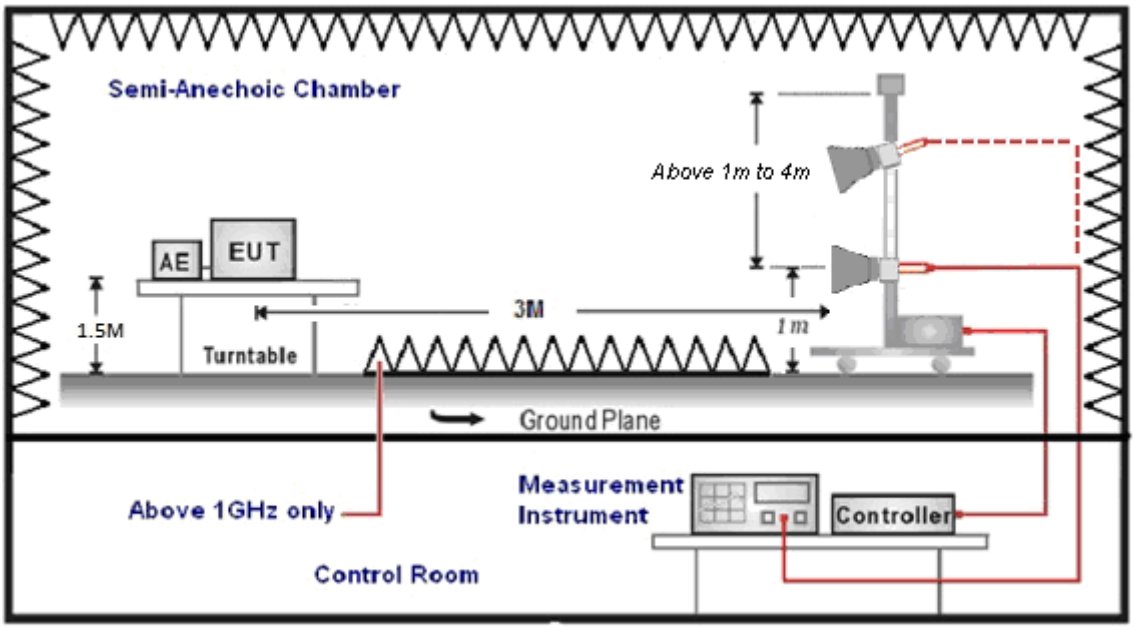
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz


Semi-Anechoic Chamber
Above 1m to 4m
AE
EUT
1.5M
3M
1m
Turntable
Ground Plane
Above 1GHz only
Measurement
Instrument
Controller
Control Room

■ **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(below 1 GHz use 0.8 m turntable / above 1 GHz use 1.5 m turntable), 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 40 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 restricted 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.

For out of band 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.

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 Trilog-Broadband Antenna at 3 Meter and the ETS-Lindgren Double-Ridged Waveguide Horn antnna Schwarzbeck Mess-Elektronik Broadband Horn Antenna was used in frequencies 1 – 40 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 colts 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) 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

Measuring Instruments and setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40 GHz
RBW/VBW(Emission in restricted band)	1 MHz / 3 MHz for Peak 1 MHz / (1/T) for Average
RBW/VBW(Emission in non-restricted band)	1 MHz / 3 MHz for Peak

4.3. Maximum Conducted Output Power Measurement

■ **Limit**

Frequency Range (MHz)	FCC Maximum Conducted Output Power Limit
	Client
5.150 ~ 5.250 GHz	The lesser of 250 mW (24 dBm)
5.250 ~ 5.350 GHz	The lesser of 250 mW (24 dBm) or 11 dBm + 10 log (B)
5.470 ~ 5.725 GHz	The lesser of 250 mW (24 dBm) or 11 dBm + 10 log (B)
5.725 ~ 5.850 GHz	The lesser of 1 W (30 dBm)

According FCC KDB 662911 D01 v02r01 – for power measurements on IEEE802.11 devices,

IEEE 802.11a / IEEE 802.11n 5 GHz 20 MHz / IEEE 802.11n 5 GHz 40 MHz

Diversity mode:

Directional = Max. Gain：5.26 dBi < 6 dBi

5500 – 5720 MHz limit：

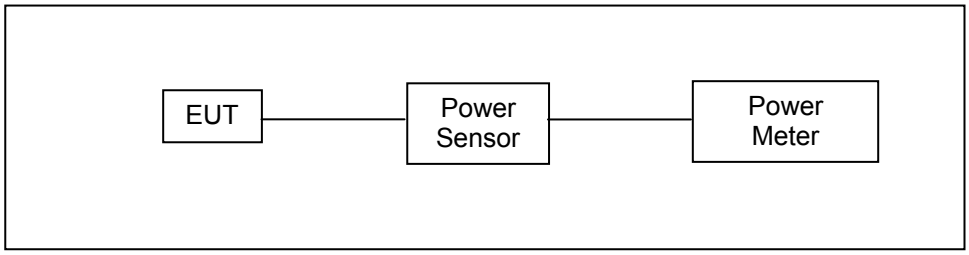
IEEE 802.11n 5 GHz 20 MHz

＊ Power limit shall be reduced = 11+10*Log (15.73) = 22.97 dBm

IEEE 802.11n 5 GHz 40 MHz

＊ Power limit shall be reduced = 11+10*Log (16) = 23.04 dBm

■ **Test Setup**



■ **Test Procedure**

The test is performed in accordance with ANSI C63.10:2013 section 12.3.3.2, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices

Section (E) Maximum Conducted Output Power

3. Measurement using a Power Meter (PM)

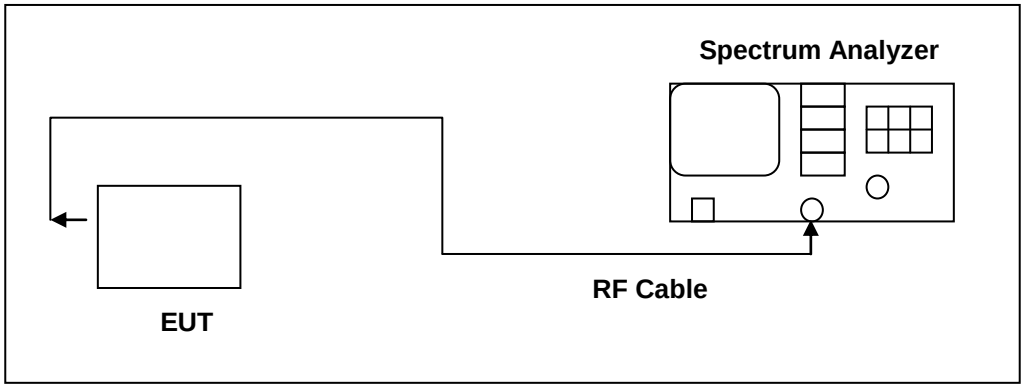
b) Method PM-G (Measurement using a gated RF average power meter)

4.4. 26 dB RF Bandwidth Measurement

■ **Limit**

N/A

■ **Test Setup**



■ **Test Procedure**

The test is performed in accordance with ANSI C63.10:2013 section 12.4.1 Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	>26 dB Bandwidth
RBW	Approximately 1 % of the emission bandwidth
VBW	VBW > RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

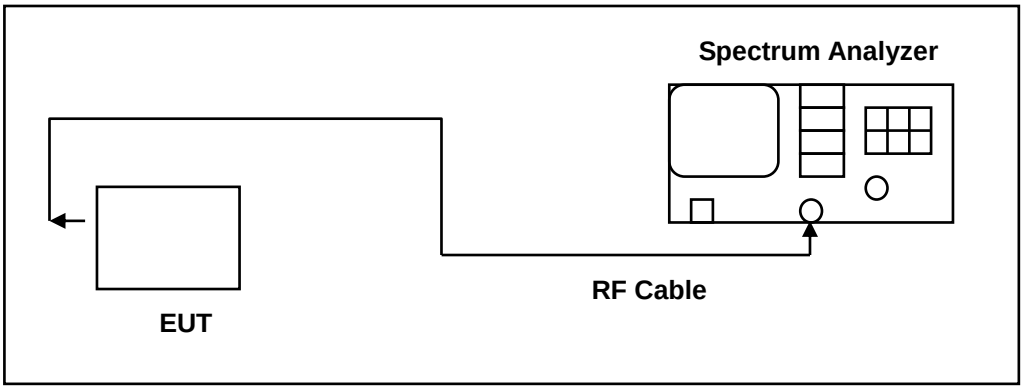
4.5. 6 dB RF Bandwidth Measurement

■ **Limit**

6 dB RF Bandwidth

Systems using digital modulation techniques may operate in the 5725~5850 MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

■ **Test Setup**



■ **Test Procedure**

6 dB RF Bandwidth

The EUT tested to UNII test procedure of ANSI C63.10:2013 section 6.9.2 for compliance to FCC 47CFR 15.407 requirements.

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW 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.

4.6. Maximum Power Spectral Density Measurement

■ **Limit**

Conducted power spectral density

Frequency Range (MHz)	FCC Limit
	Client
5.150 ~ 5.250 GHz	11 dBm/MHz
5.250 ~ 5.350 GHz	11 dBm/MHz
5.470 ~ 5.725 GHz	11 dBm/MHz
5.725 ~ 5.850 GHz	30 dBm/500 kHz

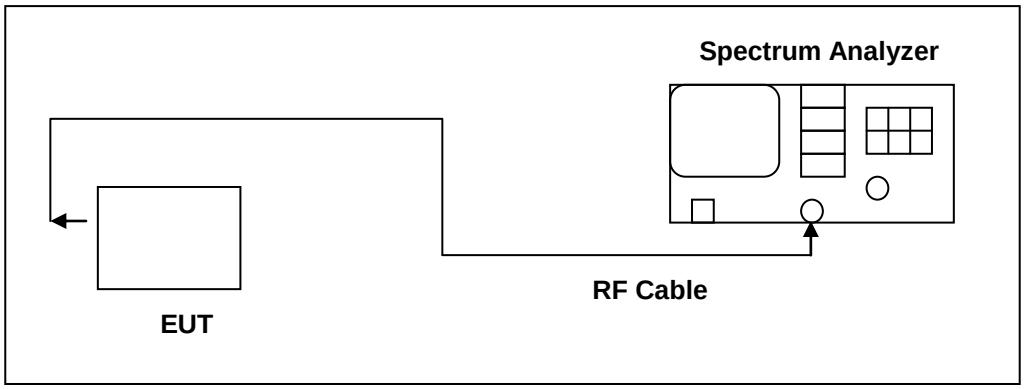
According FCC KDB 662911 D01 v02r01 – for power measurements on IEEE802.11 devices,

IEEE 802.11a / IEEE 802.11n 5 GHz 20 MHz / IEEE 802.11n 5 GHz 40 MHz

Diversity mode:

Directional = Max. Gain：5.26 dBi < 6 dBi

■ **Test Setup**



■ **Test Procedure**

The test is performed in accordance with ANSI C63.10:2013 section 12.5, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz (5725 ~ 5850 MHz use 100 kHz)
VBW	3 MHz (5725 ~ 5850 MHz use 300 kHz)
Detector	RMS
Trace	AVERAGE
Sweep Time	Auto
Trace Average	100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log(500 kHz/100 kHz) to the measured result.	

4.7. Automatically discontinue transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

■ **Declare**

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

4.8. Antenna Requirement

■ **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 15.407 (a), 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 Connector Construction**

See section 2 – antenna information.

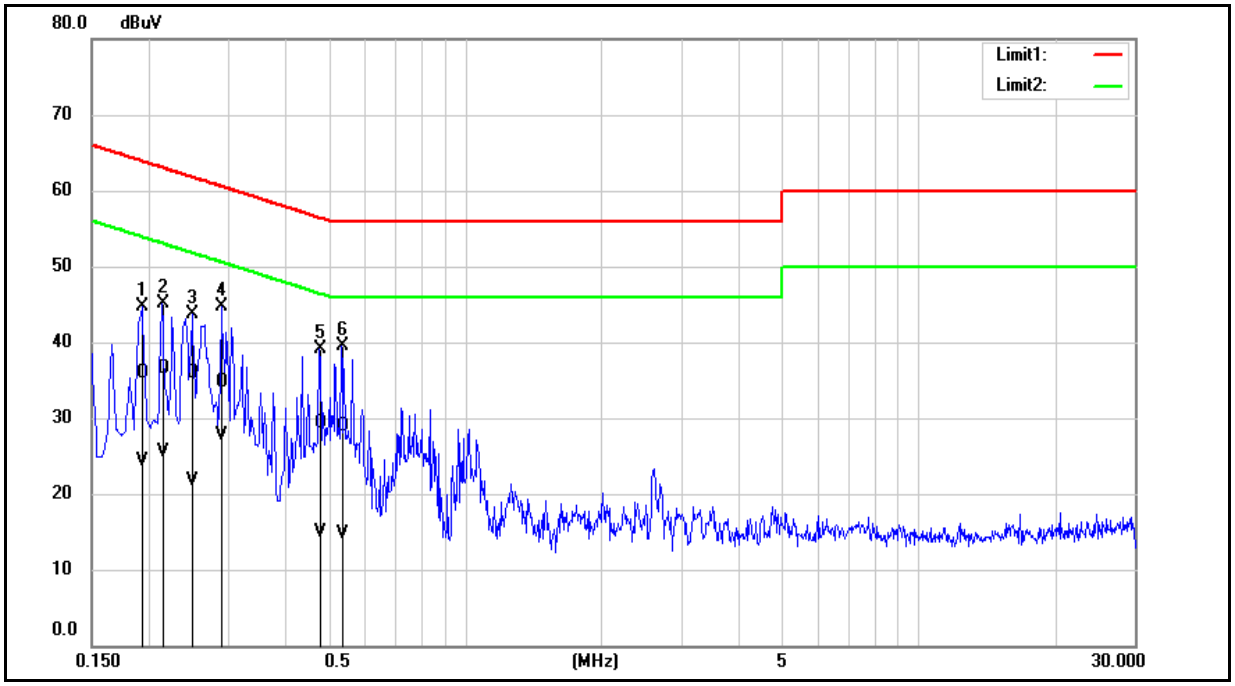
■ **Directional Gain Calculated**

Operate Freq. Band		Directional Gain (dBi)
IEEE 802.11a	U-NII Band I	5.26
	U-NII Band II-A	5.26
	U-NII Band II-C	5.26
	U-NII Band III	5.26
IEEE 802.11n 5 GHz 20 MHz	U-NII Band I	5.26
	U-NII Band II-A	5.26
	U-NII Band II-C	5.26
	U-NII Band III	5.26
IEEE 802.11n 5 GHz 40 MHz	U-NII Band I	5.26
	U-NII Band II-A	5.26
	U-NII Band II-C	5.26
	U-NII Band III	5.26

5 Test Results

Annex A. Conducted Emission

Standard:	FCC Part 15.407	Line:	L1
Test item:	Conducted Emission	Power:	AC 24 V
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Description:			

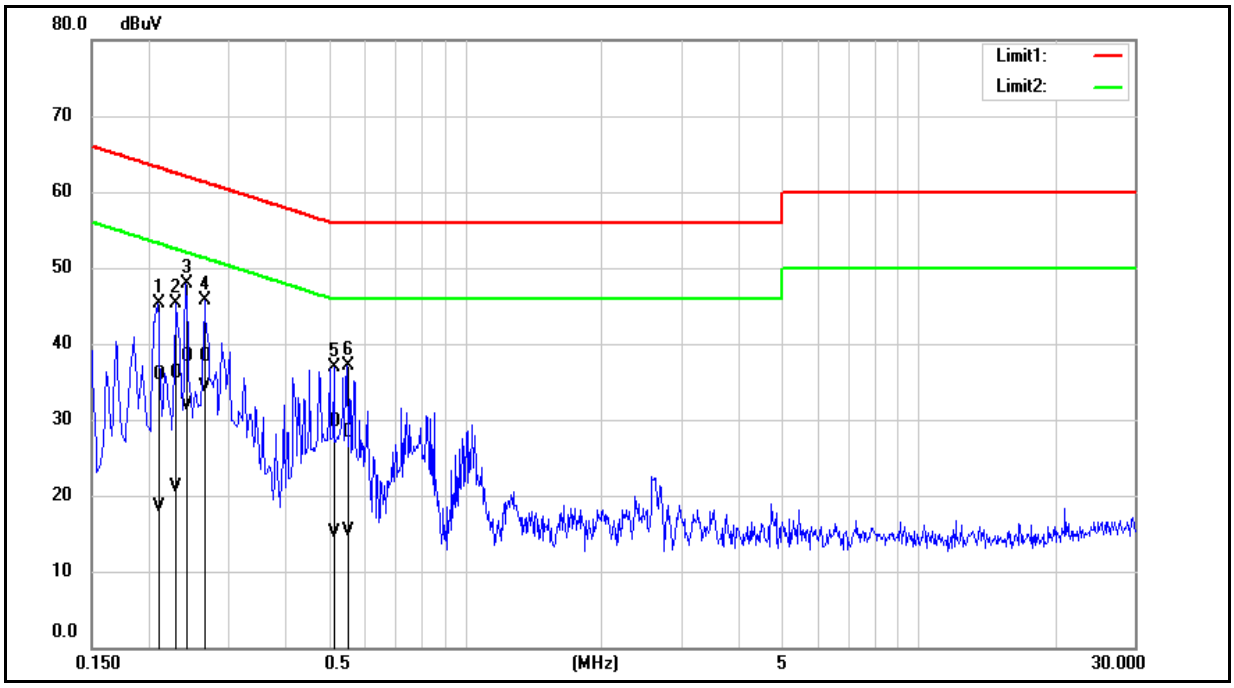


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1940	26.23	14.63	9.64	35.87	24.27	63.86	53.86	-27.99	-29.59	Pass
2	0.2140	26.78	15.77	9.64	36.42	25.41	63.05	53.05	-26.63	-27.64	Pass
3	0.2500	26.26	12.07	9.64	35.90	21.71	61.76	51.76	-25.86	-30.05	Pass
4	0.2900	24.97	18.14	9.65	34.62	27.79	60.52	50.52	-25.90	-22.73	Pass
5	0.4780	19.60	5.34	9.66	29.26	15.00	56.37	46.37	-27.11	-31.37	Pass
6	0.5340	19.31	5.02	9.66	28.97	14.68	56.00	46.00	-27.03	-31.32	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 15.407	Line:	N
Test item:	Conducted Emission	Power:	AC 24 V
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/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	0.2100	26.30	8.89	9.67	35.97	18.56	63.21	53.21	-27.24	-34.65	Pass
2	0.2300	26.42	11.42	9.67	36.09	21.09	62.45	52.45	-26.36	-31.36	Pass
3	0.2420	28.65	22.32	9.67	38.32	31.99	62.03	52.03	-23.71	-20.04	Pass
4	0.2660	28.59	24.66	9.67	38.26	34.33	61.24	51.24	-22.98	-16.91	Pass
5	0.5140	20.03	5.45	9.69	29.72	15.14	56.00	46.00	-26.28	-30.86	Pass
6	0.5500	18.62	5.67	9.69	28.31	15.36	56.00	46.00	-27.69	-30.64	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. Radiated Emission Measurement

Harmonic

Below 1 GHz

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Test Mode:	Mode 3		

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
64.9200	41.36	-7.80	33.56	40.00	-6.44	QP	H
174.5300	30.13	-6.46	23.67	43.50	-19.83	QP	H
295.7800	29.36	-4.21	25.15	46.00	-20.85	QP	H
521.7900	30.62	0.05	30.67	46.00	-15.33	QP	H
707.0600	29.41	3.67	33.08	46.00	-12.92	QP	H
913.6700	28.94	7.88	36.82	46.00	-9.18	QP	H
62.9800	42.86	-7.50	35.36	40.00	-4.64	QP	V
214.3000	34.20	-7.70	26.50	43.50	-17.00	QP	V
369.5000	28.38	-2.83	25.55	46.00	-20.45	QP	V
533.4300	35.27	0.25	35.52	46.00	-10.48	QP	V
773.0200	29.61	5.35	34.96	46.00	-11.04	QP	V
914.6400	33.21	7.90	41.11	46.00	-4.89	QP	V

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

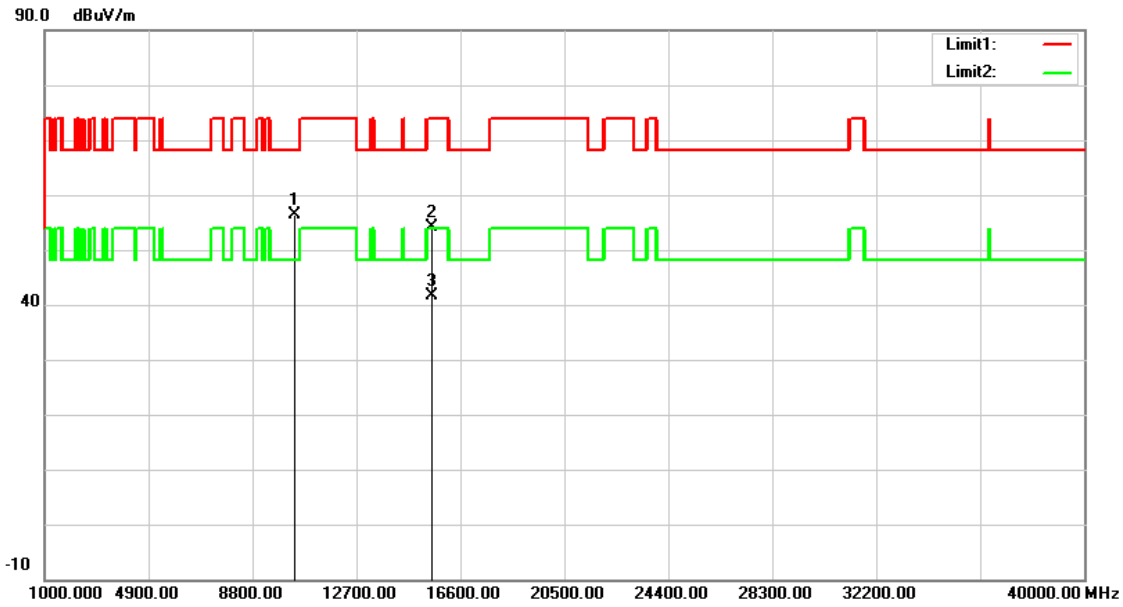
Example: 33.56=-7.80+41.36.

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/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	10360.000	39.17	17.18	56.35	68.20	-11.85	peak
2	15540.000	33.39	20.68	54.07	74.00	-19.93	peak
3	15540.000	20.92	20.68	41.60	54.00	-12.40	AVG

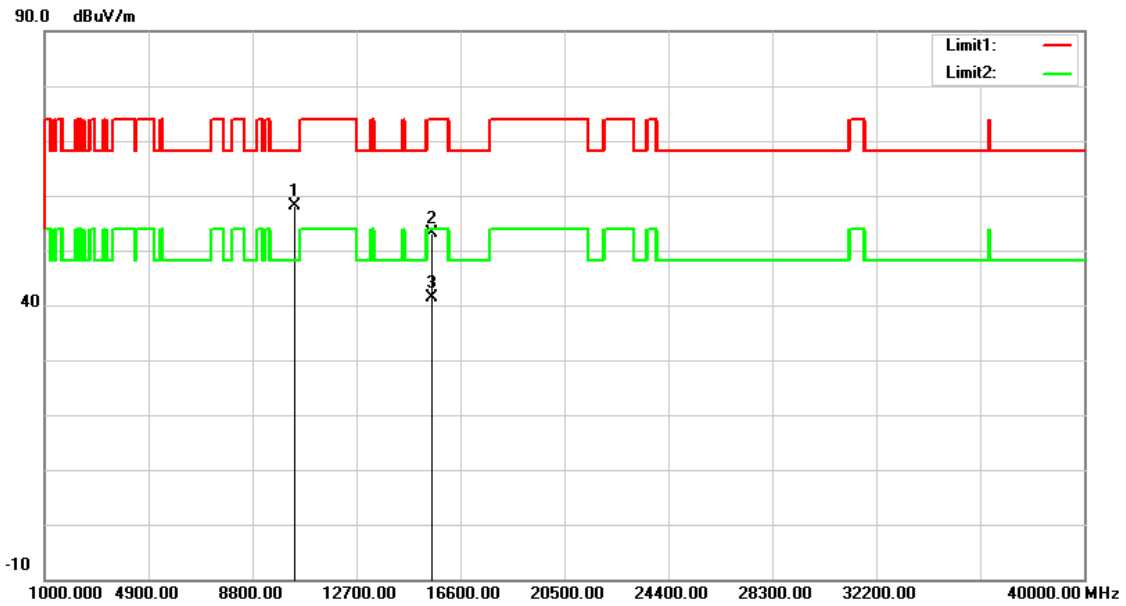
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 56.35=17.18+39.17.

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/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	10360.000	40.88	17.18	58.06	68.20	-10.14	peak
2	15540.000	32.35	20.68	53.03	74.00	-20.97	peak
3	15540.000	20.77	20.68	41.45	54.00	-12.55	AVG

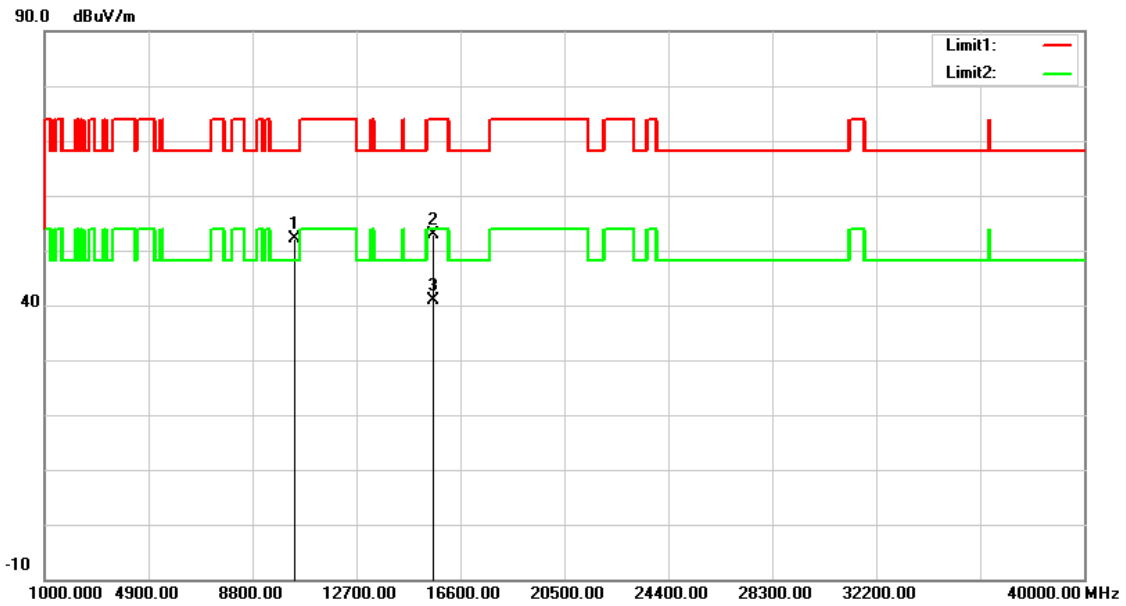
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 56.06=17.18+40.88.

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



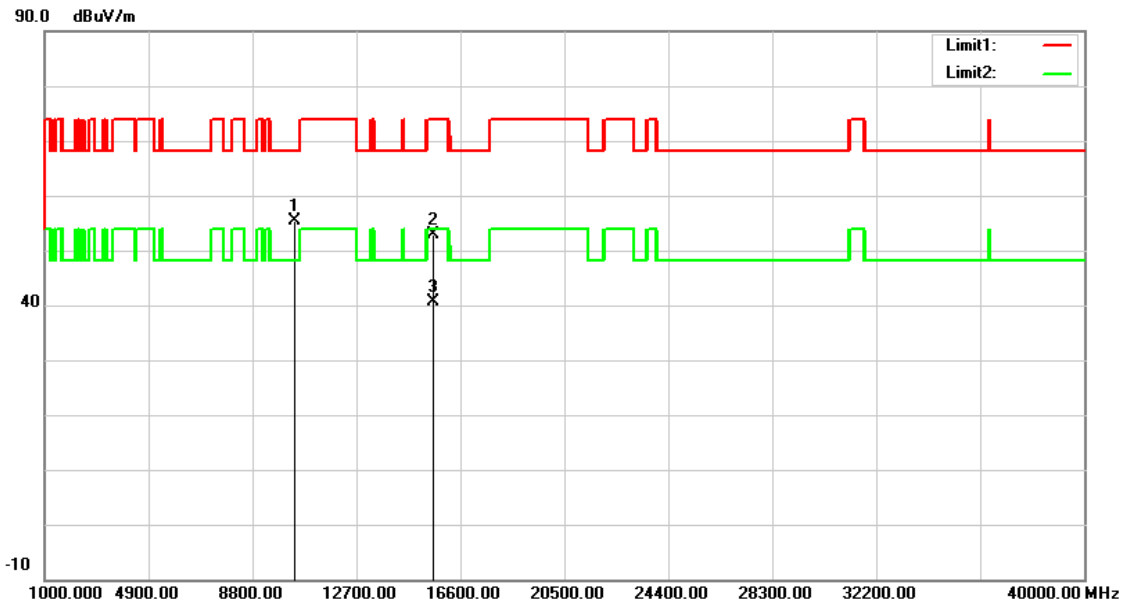
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	34.85	17.30	52.15	68.20	-16.05	peak
2	15600.000	32.37	20.52	52.89	74.00	-21.11	peak
3	15600.000	20.25	20.52	40.77	54.00	-13.23	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



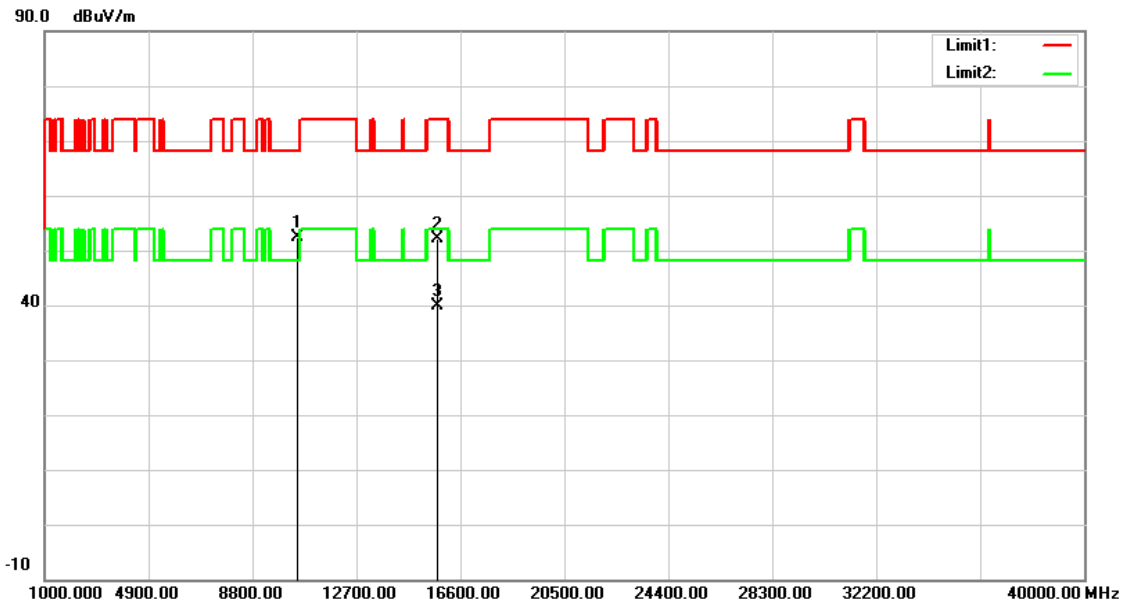
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	37.99	17.30	55.29	68.20	-12.91	peak
2	15600.000	32.42	20.52	52.94	74.00	-21.06	peak
3	15600.000	20.01	20.52	40.53	54.00	-13.47	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



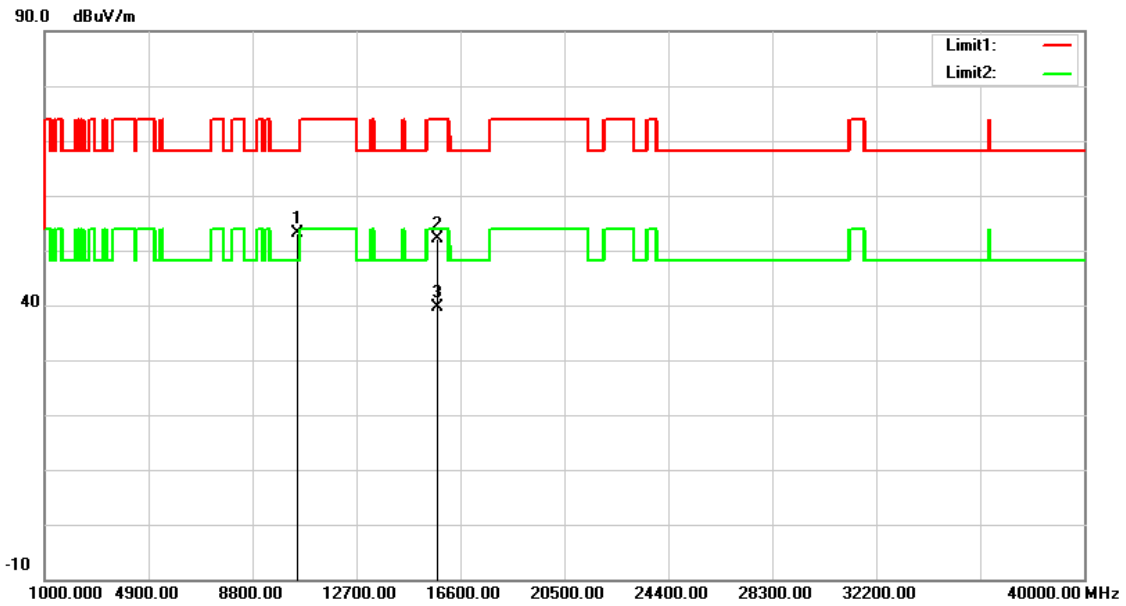
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	34.86	17.56	52.42	68.20	-15.78	peak
2	15720.000	31.87	20.21	52.08	74.00	-21.92	peak
3	15720.000	19.58	20.21	39.79	54.00	-14.21	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



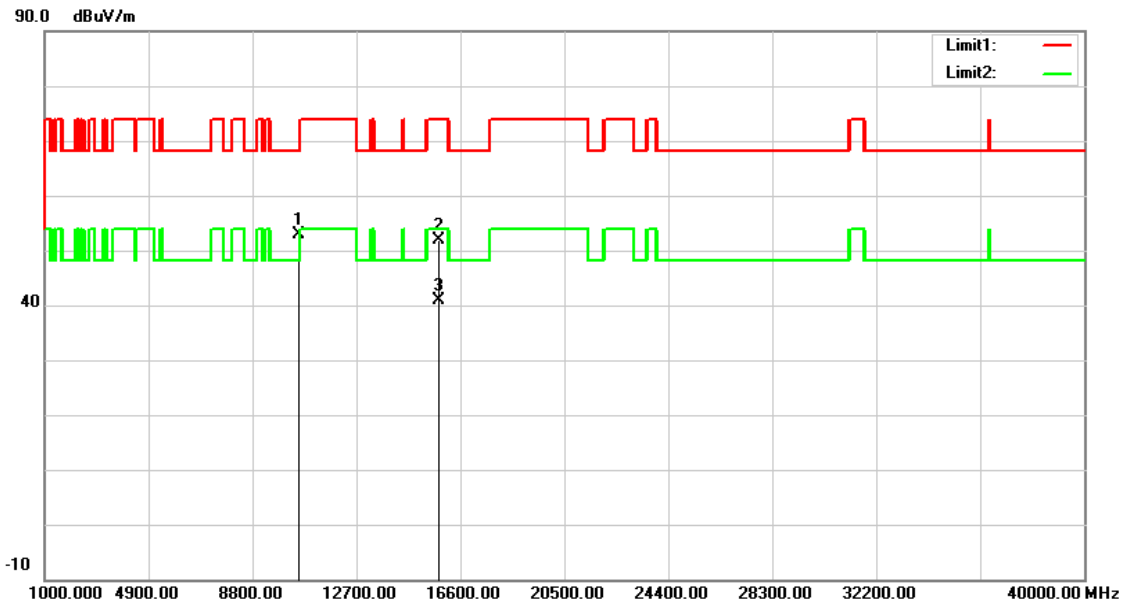
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	35.49	17.56	53.05	68.20	-15.15	peak
2	15720.000	31.98	20.21	52.19	74.00	-21.81	peak
3	15720.000	19.43	20.21	39.64	54.00	-14.36	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5260 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



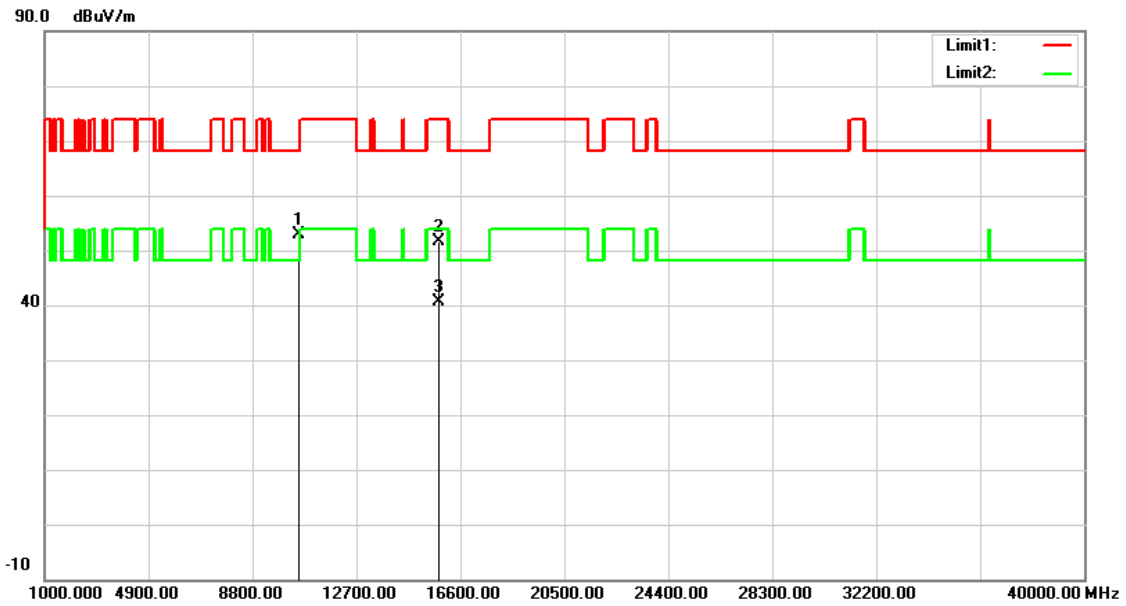
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	35.16	17.66	52.82	68.20	-15.38	peak
2	15780.000	31.88	20.04	51.92	74.00	-22.08	peak
3	15780.000	20.86	20.04	40.90	54.00	-13.10	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5260 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



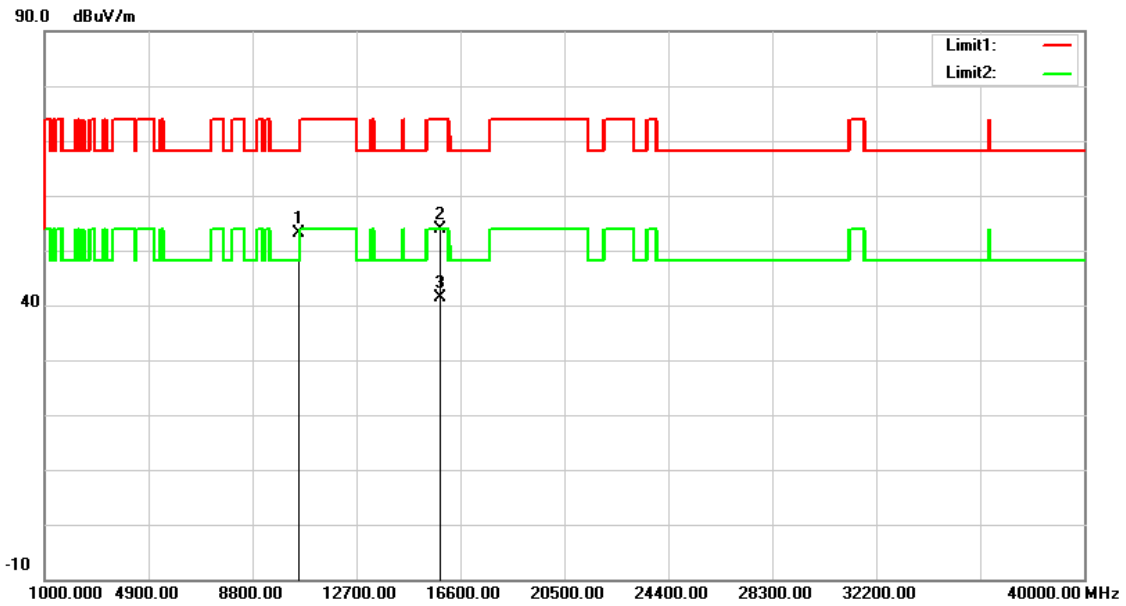
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	35.33	17.66	52.99	68.20	-15.21	peak
2	15780.000	31.63	20.04	51.67	74.00	-22.33	peak
3	15780.000	20.61	20.04	40.65	54.00	-13.35	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5280 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



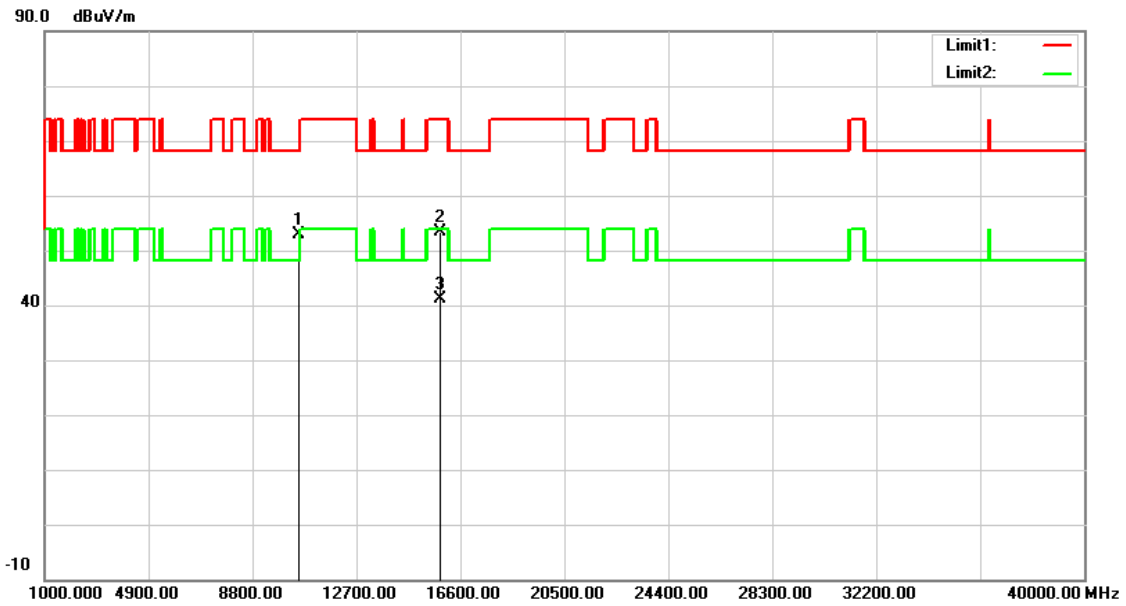
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	35.28	17.74	53.02	68.20	-15.18	peak
2	15840.000	34.09	19.88	53.97	74.00	-20.03	peak
3	15840.000	21.44	19.88	41.32	54.00	-12.68	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5280 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



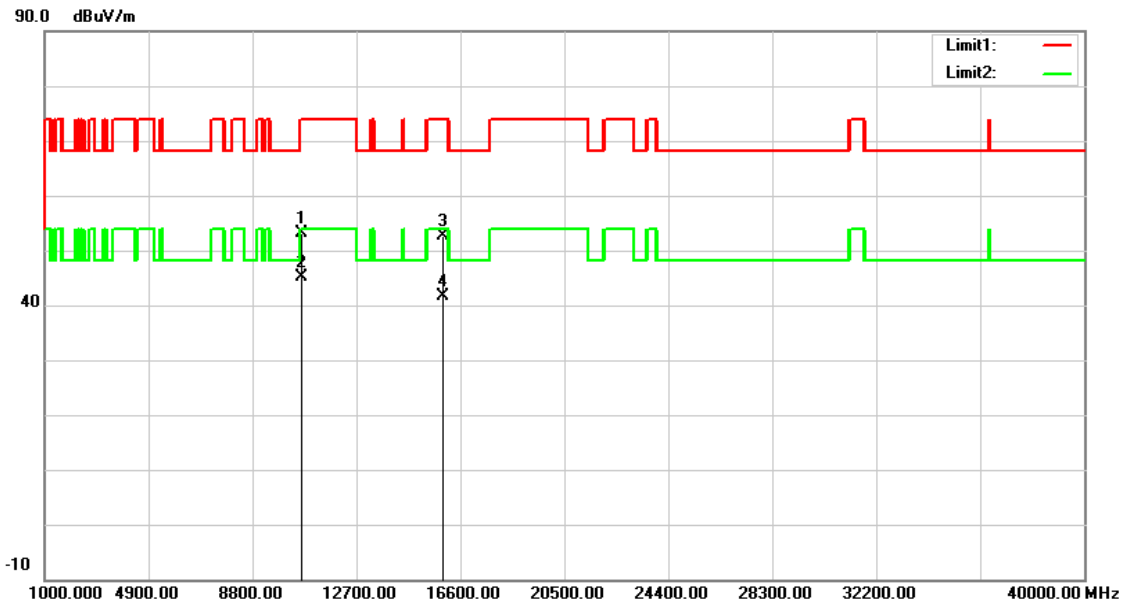
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	35.19	17.74	52.93	68.20	-15.27	peak
2	15840.000	33.51	19.88	53.39	74.00	-20.61	peak
3	15840.000	21.13	19.88	41.01	54.00	-12.99	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5320 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



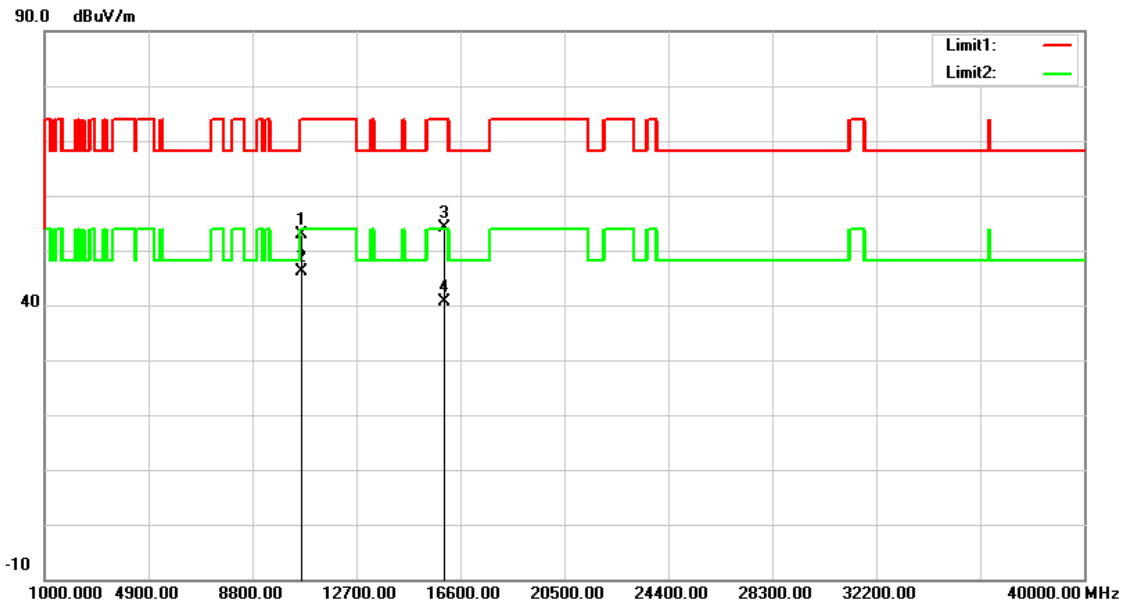
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	35.18	17.91	53.09	74.00	-20.91	peak
2	10640.000	27.22	17.91	45.13	54.00	-8.87	AVG
3	15960.000	33.18	19.57	52.75	74.00	-21.25	peak
4	15960.000	22.15	19.57	41.72	54.00	-12.28	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5320 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



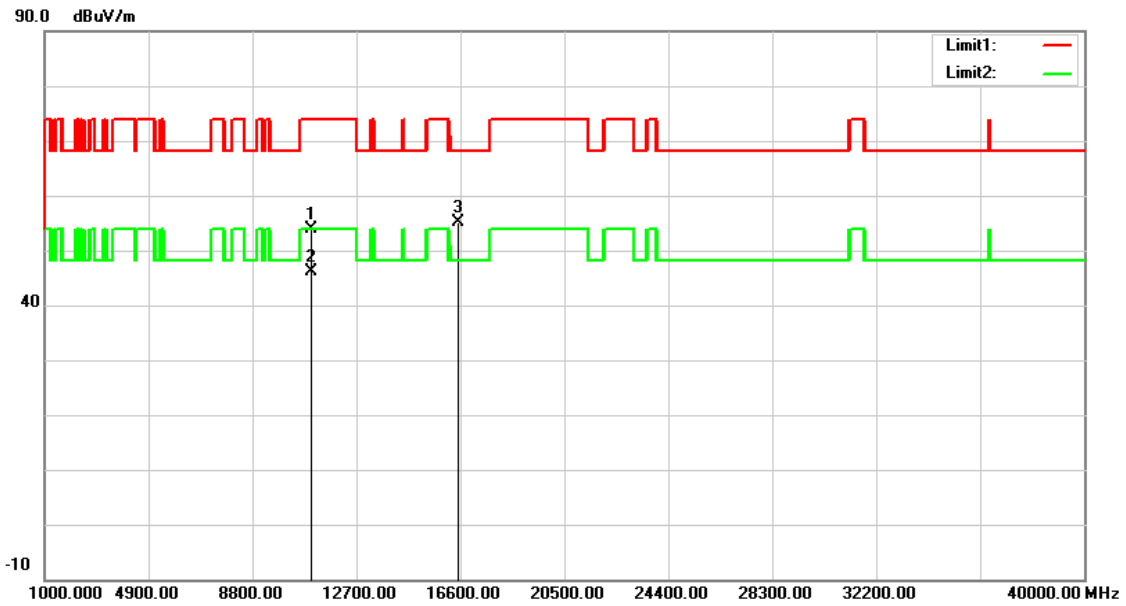
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	35.08	17.91	52.99	74.00	-21.01	peak
2	10640.000	28.30	17.91	46.21	54.00	-7.79	AVG
3	15960.000	34.68	19.57	54.25	74.00	-19.75	peak
4	15960.000	21.08	19.57	40.65	54.00	-13.35	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



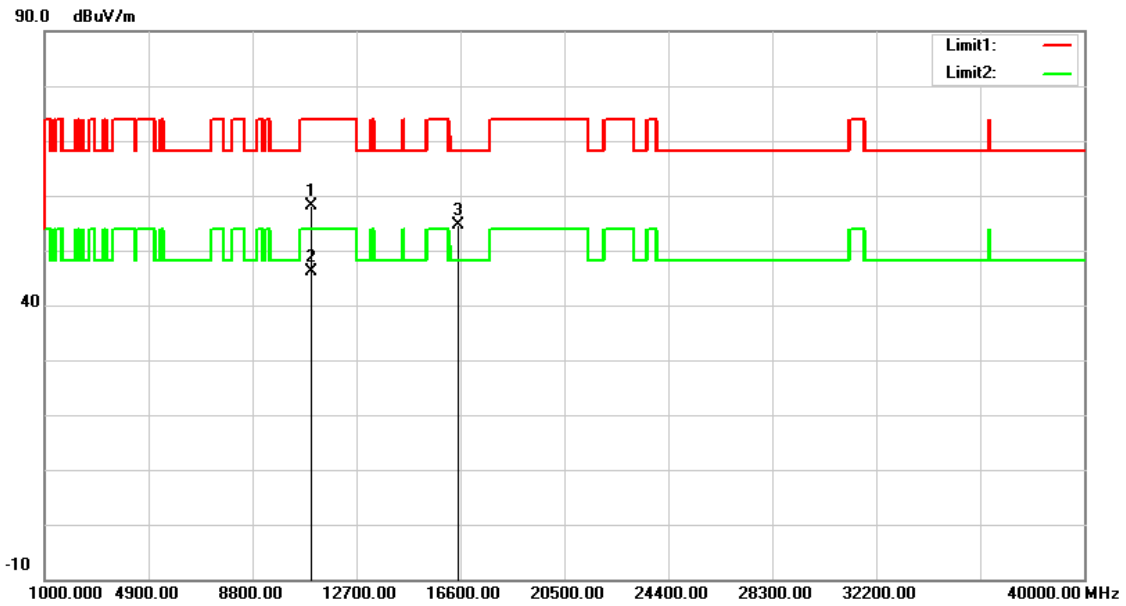
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	35.31	18.65	53.96	74.00	-20.04	peak
2	11000.000	27.47	18.65	46.12	54.00	-7.88	AVG
3	16500.000	33.91	21.18	55.09	68.20	-13.11	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



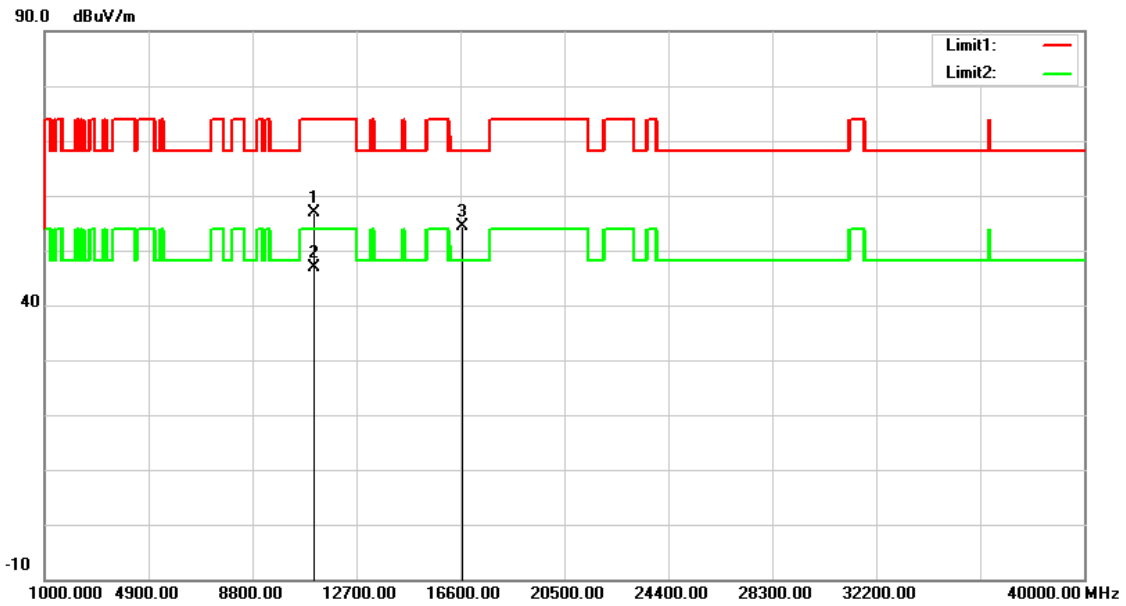
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	39.44	18.65	58.09	74.00	-15.91	peak
2	11000.000	27.54	18.65	46.19	54.00	-7.81	AVG
3	16500.000	33.51	21.18	54.69	68.20	-13.51	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5560 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



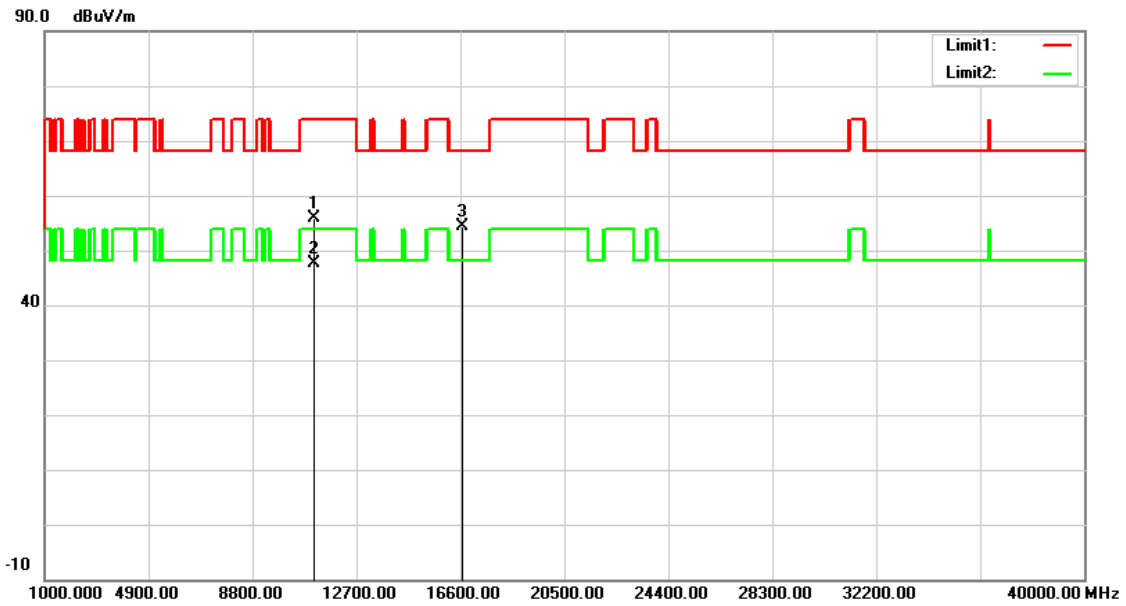
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	38.06	18.74	56.80	74.00	-17.20	peak
2	11120.000	28.18	18.74	46.92	54.00	-7.08	AVG
3	16680.000	32.19	22.20	54.39	68.20	-13.81	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5560 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



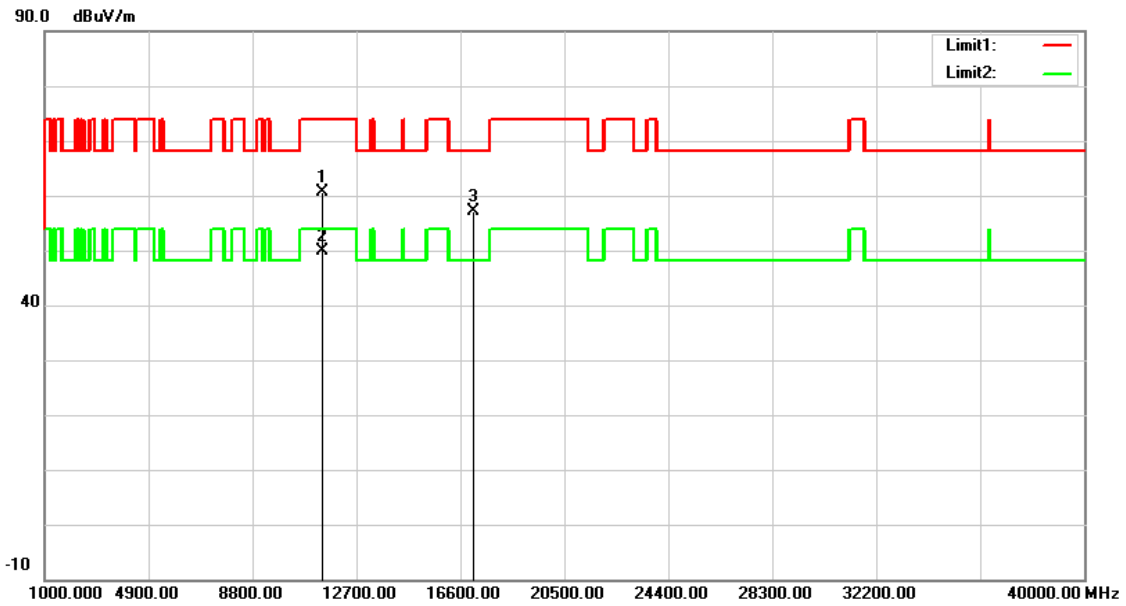
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	37.13	18.74	55.87	74.00	-18.13	peak
2	11120.000	28.86	18.74	47.60	54.00	-6.40	AVG
3	16680.000	32.17	22.20	54.37	68.20	-13.83	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5700 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



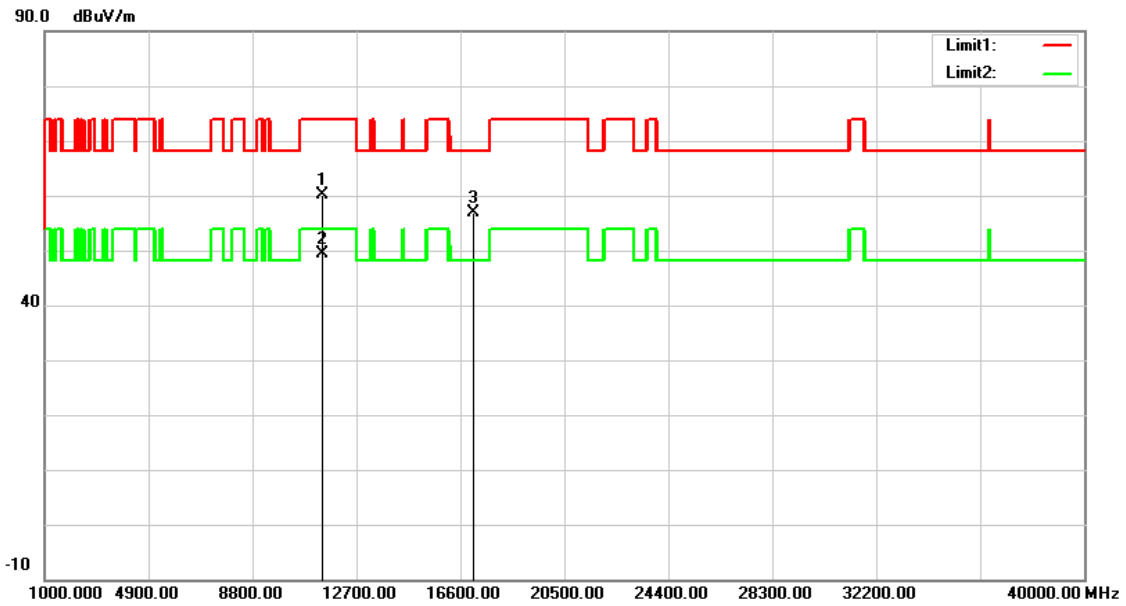
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	41.63	18.93	60.56	74.00	-13.44	peak
2	11400.000	31.02	18.93	49.95	54.00	-4.05	AVG
3	17100.000	32.78	24.32	57.10	68.20	-11.10	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5700 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



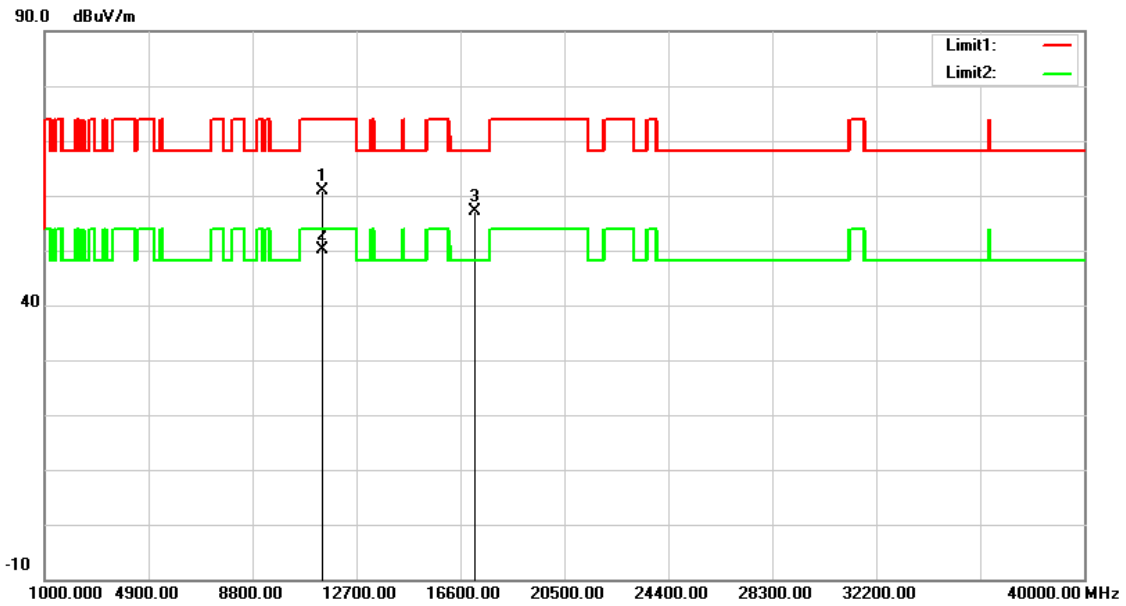
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	41.32	18.93	60.25	74.00	-13.75	peak
2	11400.000	30.43	18.93	49.36	54.00	-4.64	AVG
3	17100.000	32.55	24.32	56.87	68.20	-11.33	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5720 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



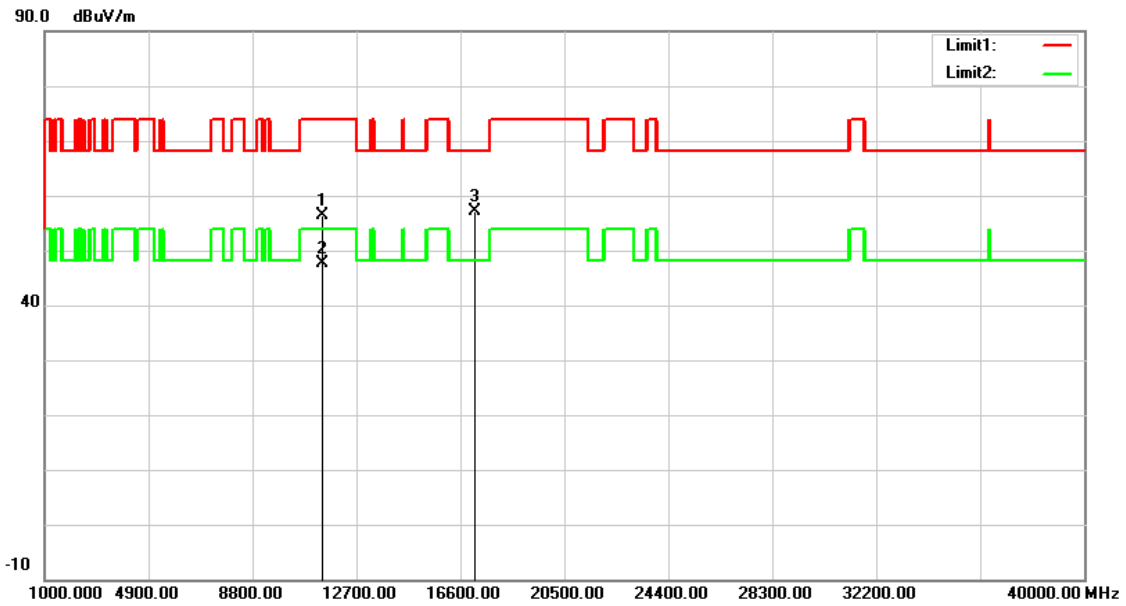
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11440.000	42.00	18.96	60.96	74.00	-13.04	peak
2	11440.000	31.05	18.96	50.01	54.00	-3.99	AVG
3	17160.000	32.51	24.53	57.04	68.20	-11.16	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5720 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



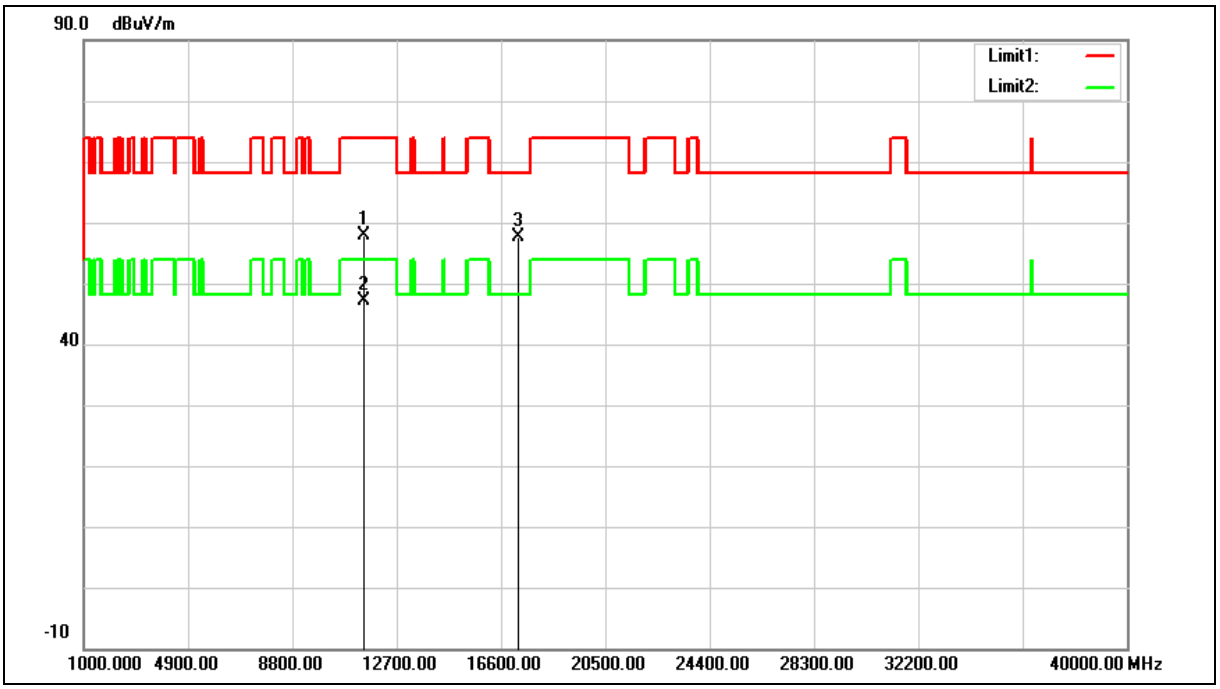
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11440.000	37.53	18.96	56.49	74.00	-17.51	peak
2	11440.000	28.60	18.96	47.56	54.00	-6.44	AVG
3	17160.000	32.54	24.53	57.07	68.20	-11.13	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



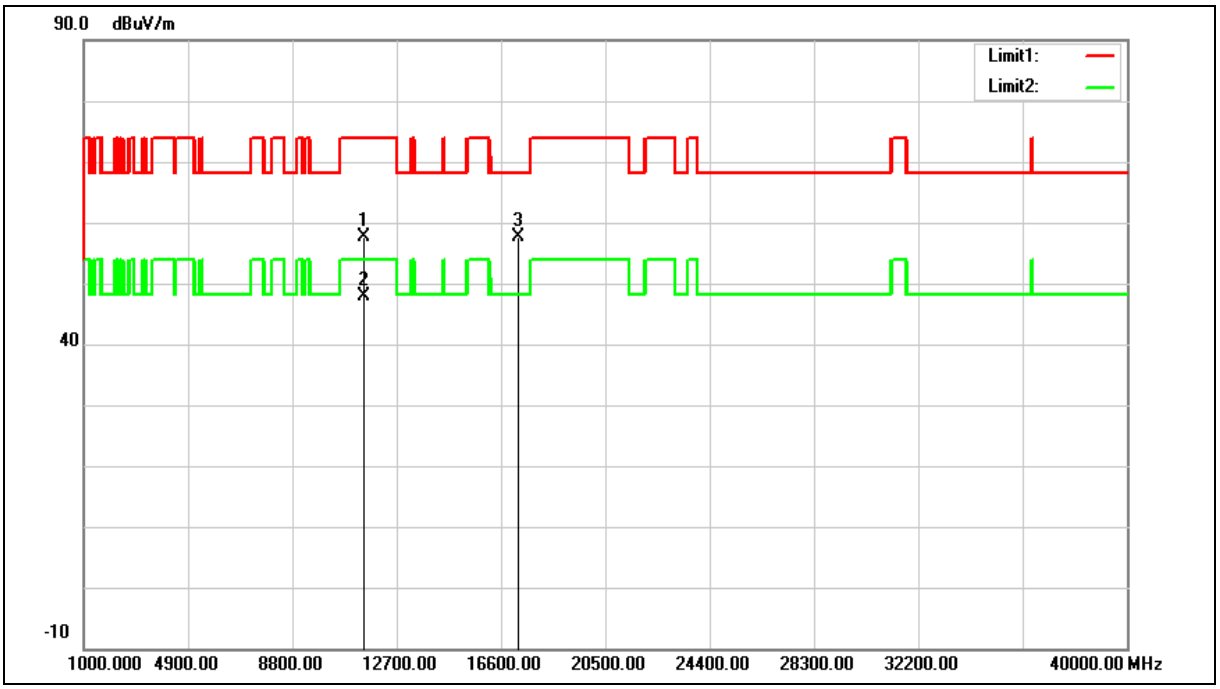
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	38.98	18.99	57.97	74.00	-16.03	peak
2	11490.000	28.09	18.99	47.08	54.00	-6.92	AVG
3	17235.000	32.90	24.77	57.67	68.20	-10.53	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



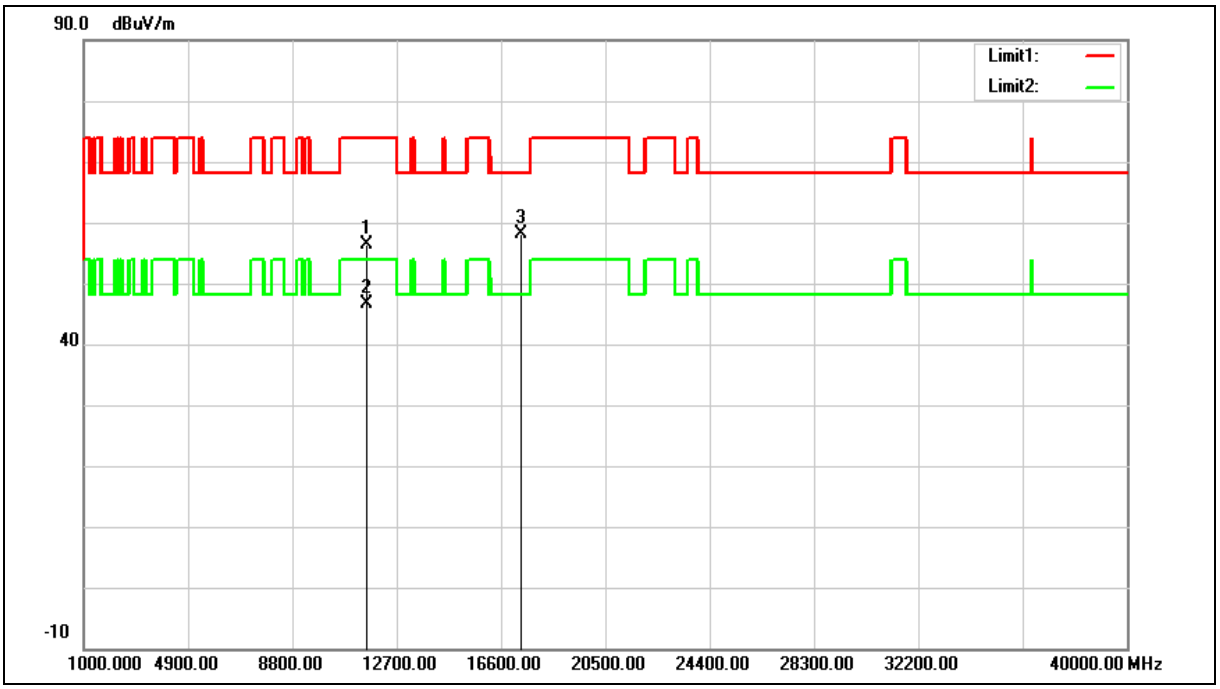
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	38.76	18.99	57.75	74.00	-16.25	peak
2	11490.000	28.82	18.99	47.81	54.00	-6.19	AVG
3	17235.000	32.81	24.77	57.58	68.20	-10.62	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



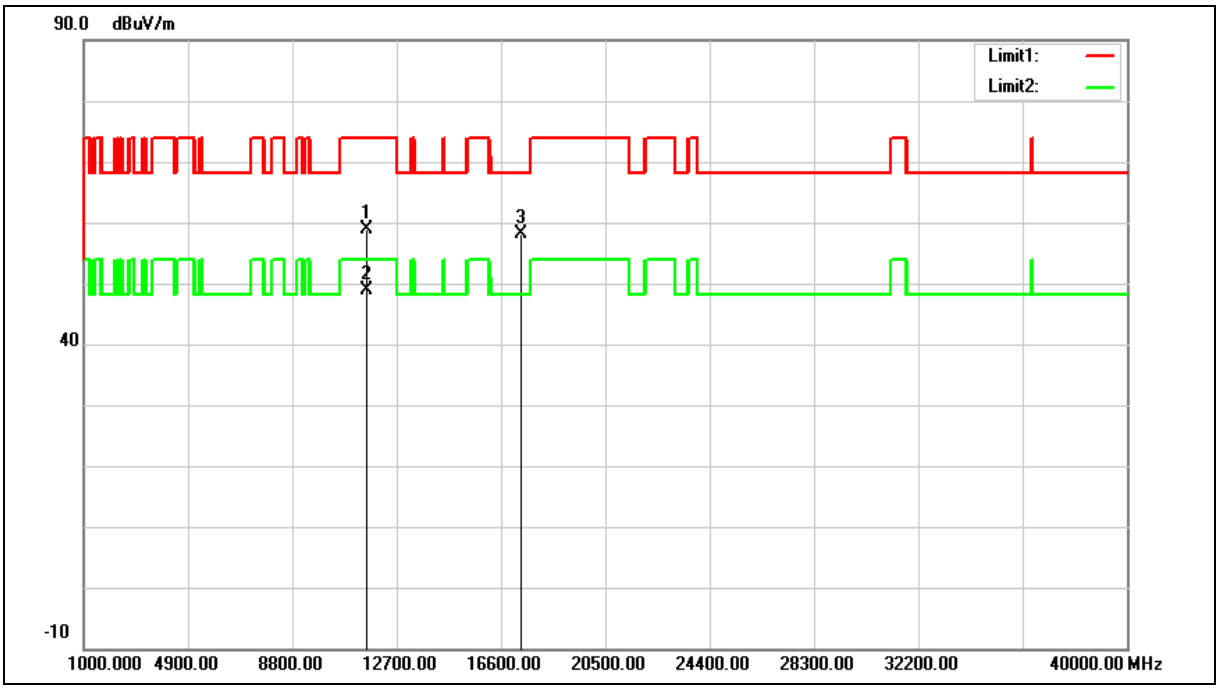
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	37.50	18.94	56.44	74.00	-17.56	peak
2	11570.000	27.61	18.94	46.55	54.00	-7.45	AVG
3	17355.000	32.94	25.18	58.12	68.20	-10.08	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



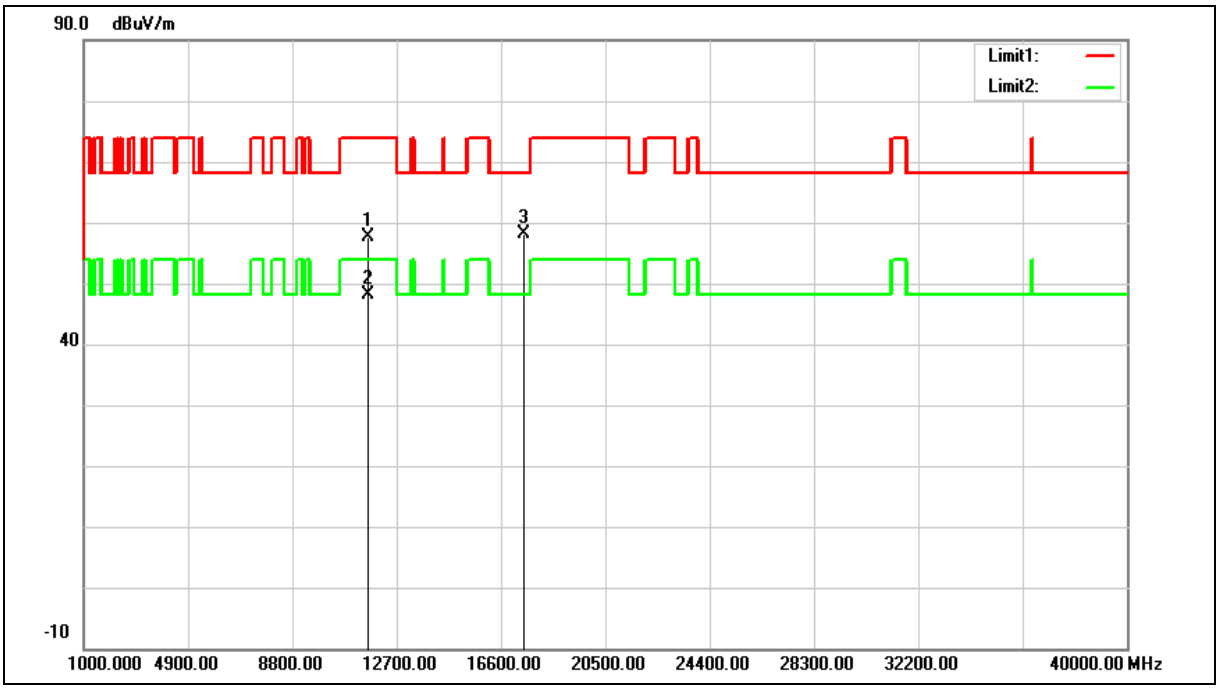
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	39.83	18.94	58.77	74.00	-15.23	peak
2	11570.000	30.05	18.94	48.99	54.00	-5.01	AVG
3	17355.000	32.87	25.18	58.05	68.20	-10.15	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



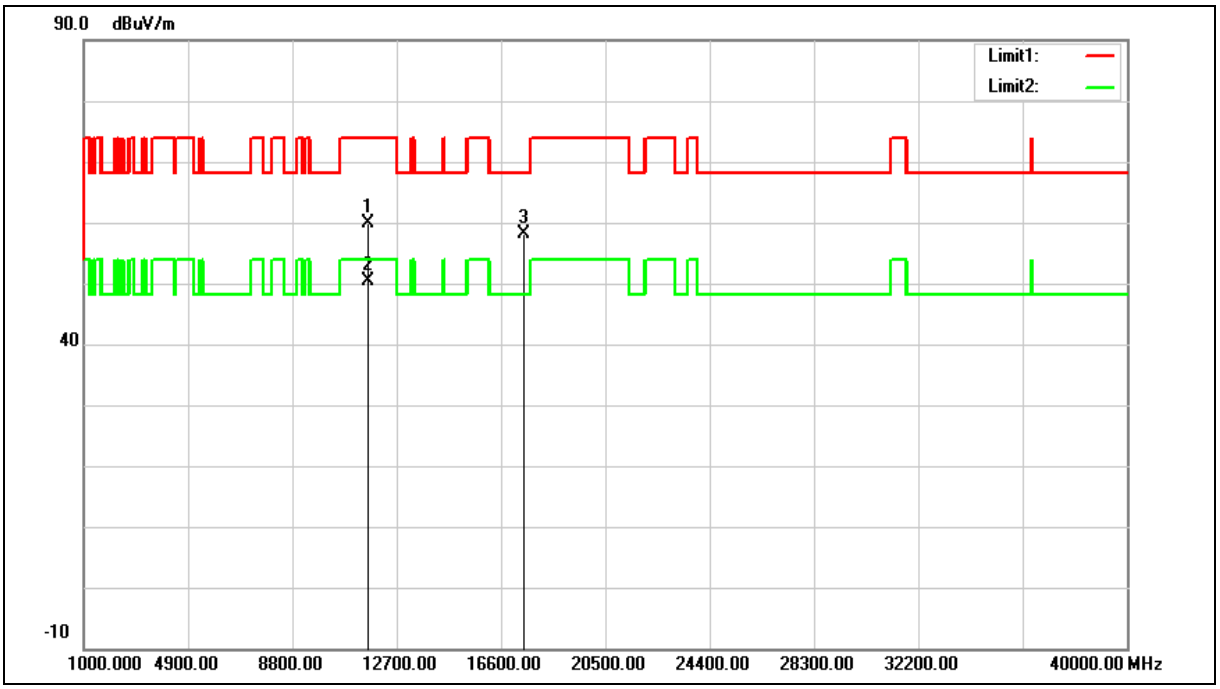
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	38.80	18.88	57.68	74.00	-16.32	peak
2	11650.000	29.18	18.88	48.06	54.00	-5.94	AVG
3	17475.000	32.68	25.57	58.25	68.20	-9.95	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



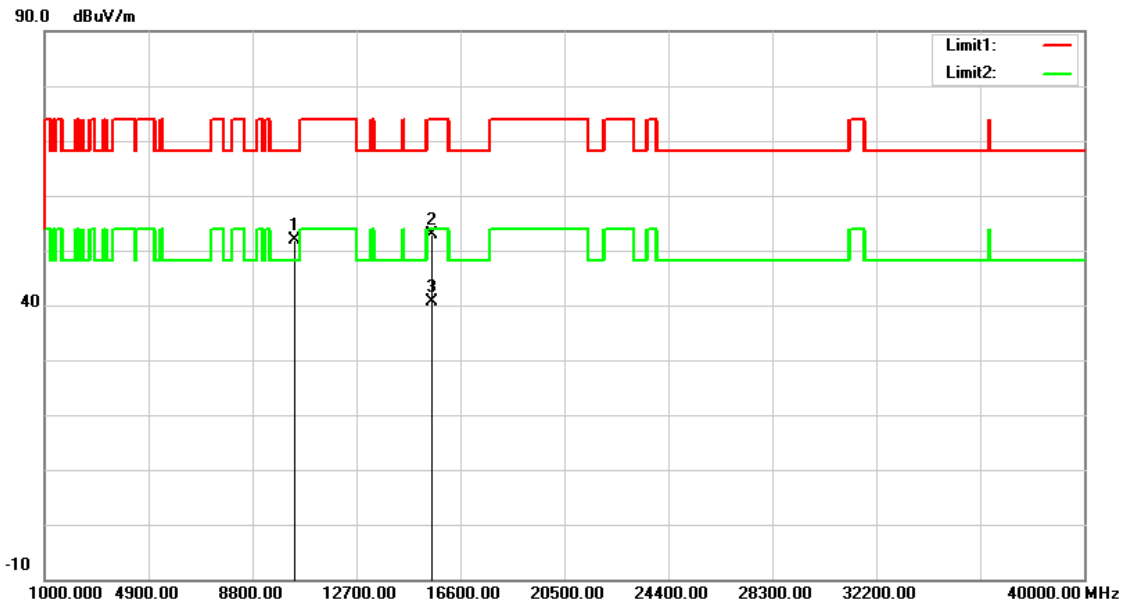
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	40.91	18.88	59.79	74.00	-14.21	peak
2	11650.000	31.38	18.88	50.26	54.00	-3.74	AVG
3	17475.000	32.48	25.57	58.05	68.20	-10.15	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



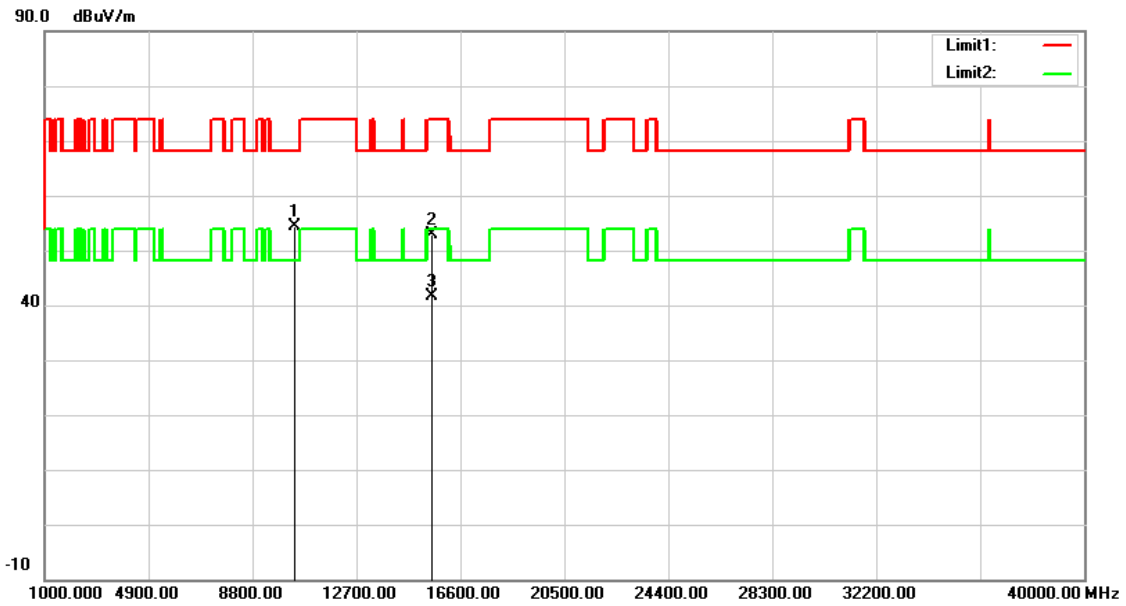
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	34.76	17.18	51.94	68.20	-16.26	peak
2	15540.000	32.10	20.68	52.78	74.00	-21.22	peak
3	15540.000	19.95	20.68	40.63	54.00	-13.37	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



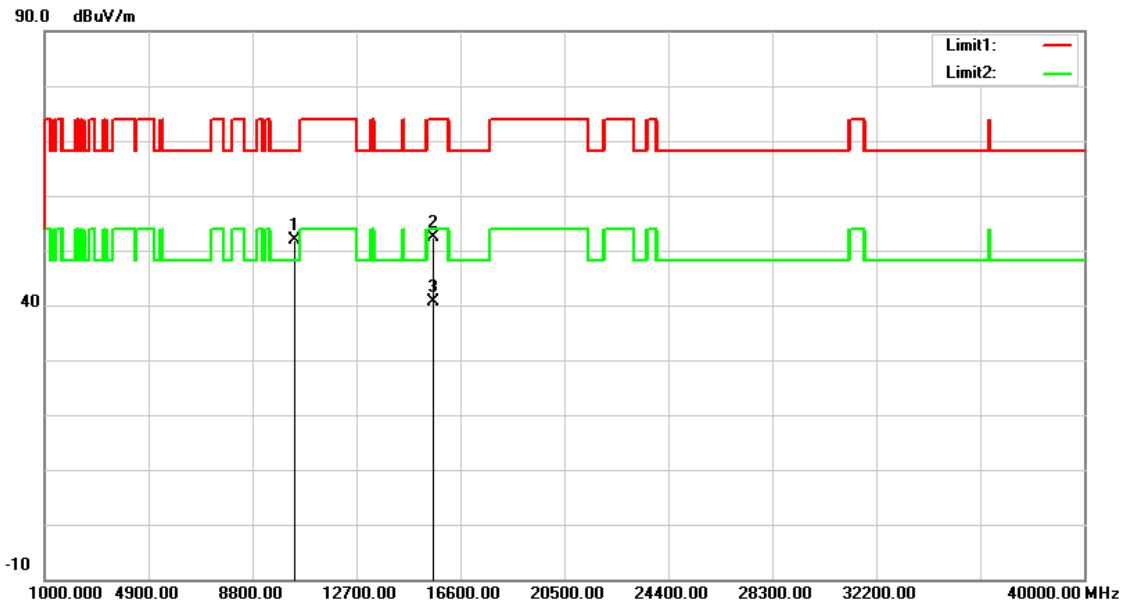
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	37.25	17.18	54.43	68.20	-13.77	peak
2	15540.000	32.29	20.68	52.97	74.00	-21.03	peak
3	15540.000	20.95	20.68	41.63	54.00	-12.37	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



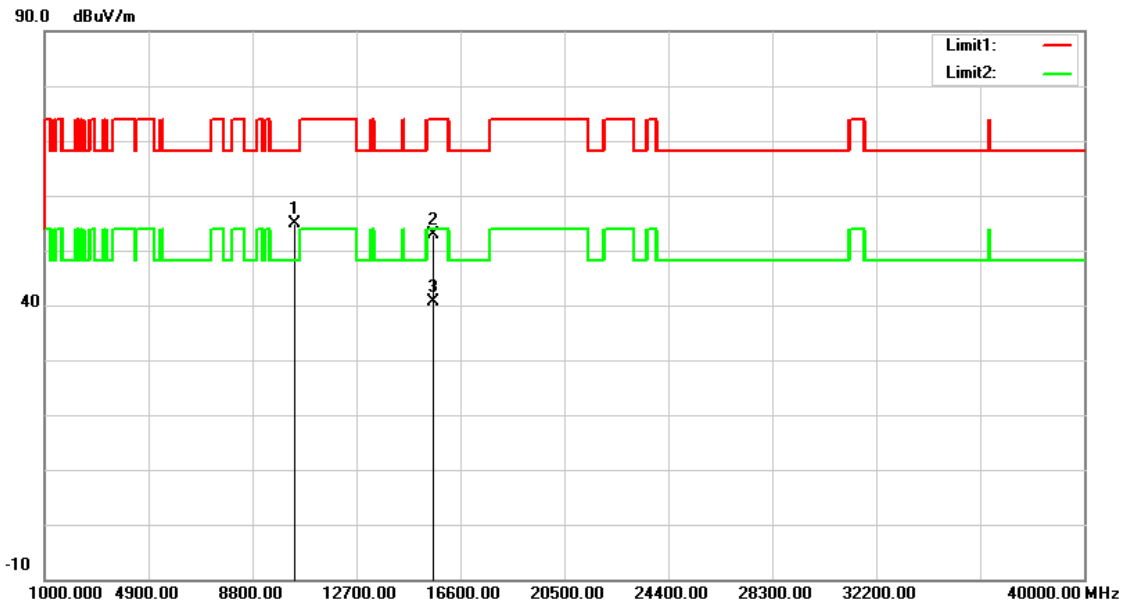
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	34.60	17.30	51.90	68.20	-16.30	peak
2	15600.000	31.82	20.52	52.34	74.00	-21.66	peak
3	15600.000	20.16	20.52	40.68	54.00	-13.32	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



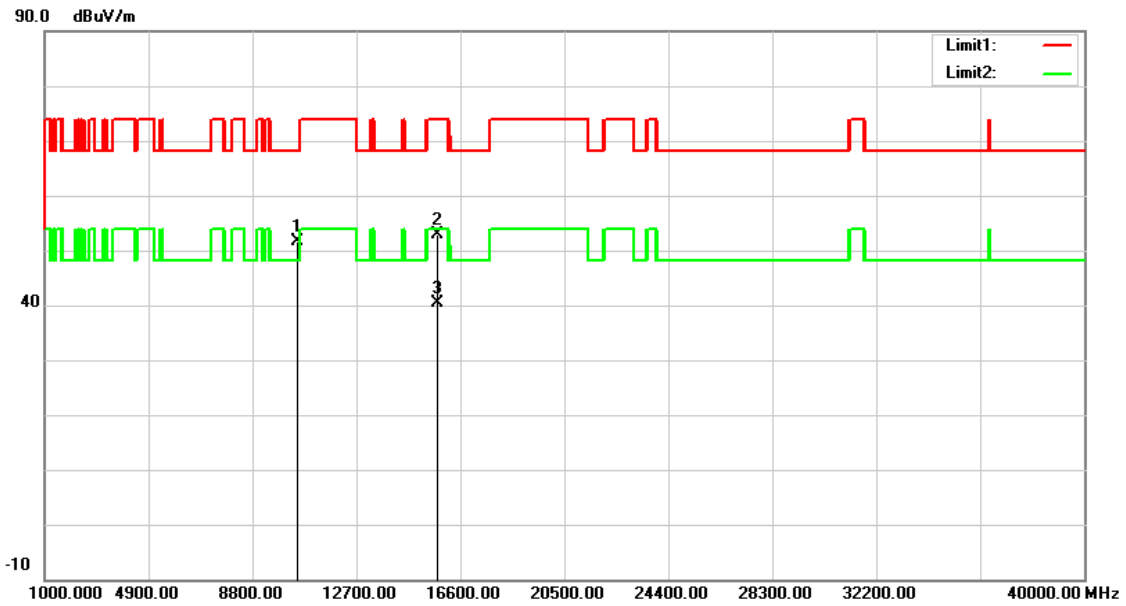
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	37.60	17.30	54.90	68.20	-13.30	peak
2	15600.000	32.43	20.52	52.95	74.00	-21.05	peak
3	15600.000	20.12	20.52	40.64	54.00	-13.36	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



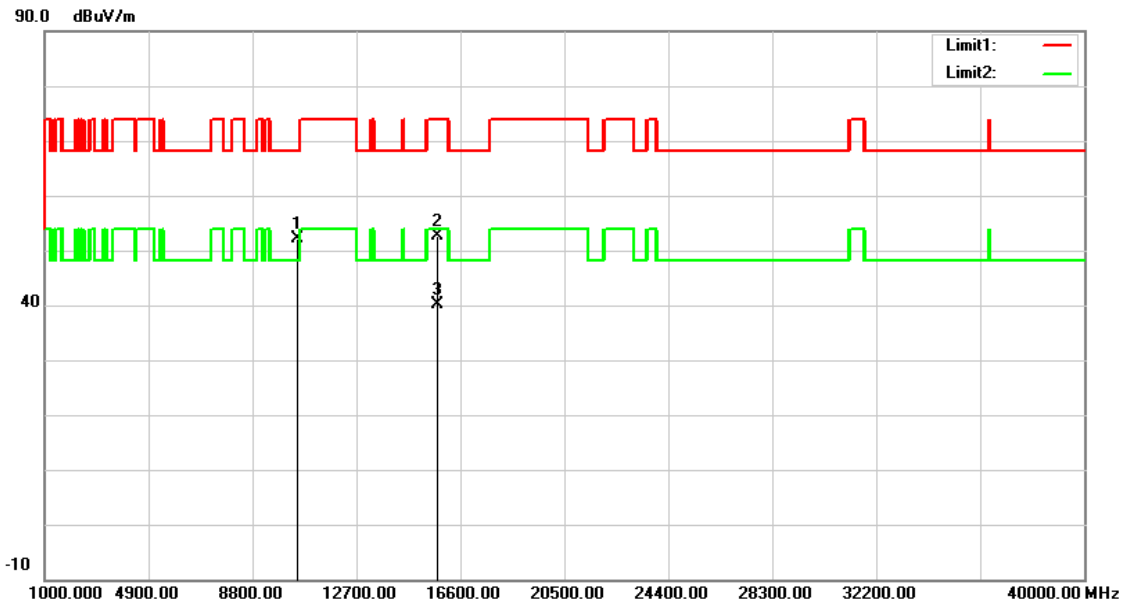
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	34.08	17.56	51.64	68.20	-16.56	peak
2	15720.000	32.70	20.21	52.91	74.00	-21.09	peak
3	15720.000	20.21	20.21	40.42	54.00	-13.58	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



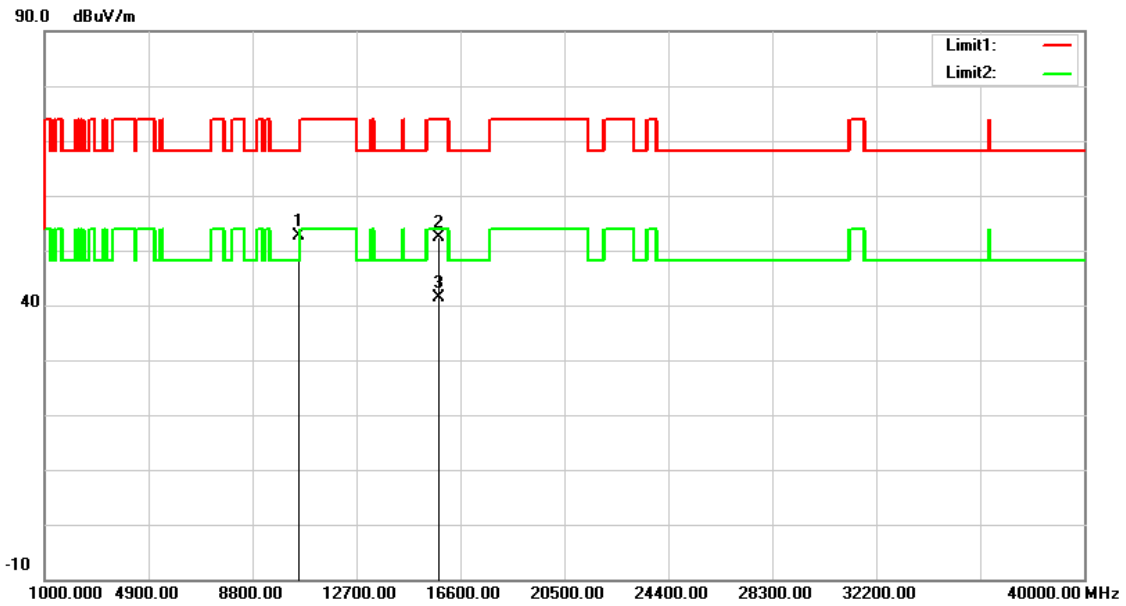
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	34.52	17.56	52.08	68.20	-16.12	peak
2	15720.000	32.34	20.21	52.55	74.00	-21.45	peak
3	15720.000	19.91	20.21	40.12	54.00	-13.88	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5260 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



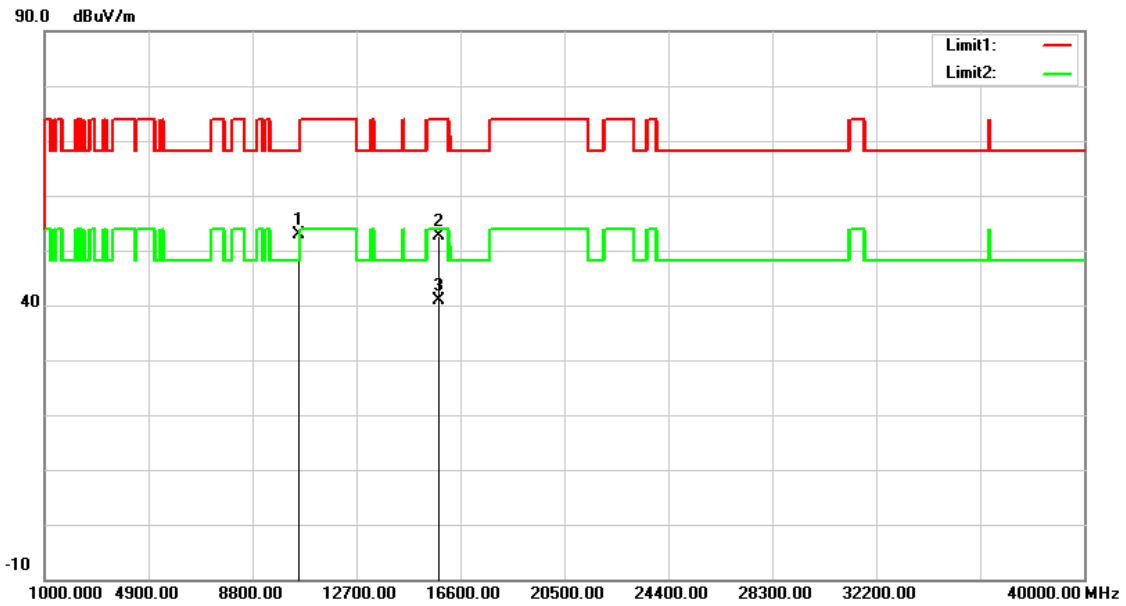
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	35.01	17.66	52.67	68.20	-15.53	peak
2	15780.000	32.43	20.04	52.47	74.00	-21.53	peak
3	15780.000	21.28	20.04	41.32	54.00	-12.68	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5260 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



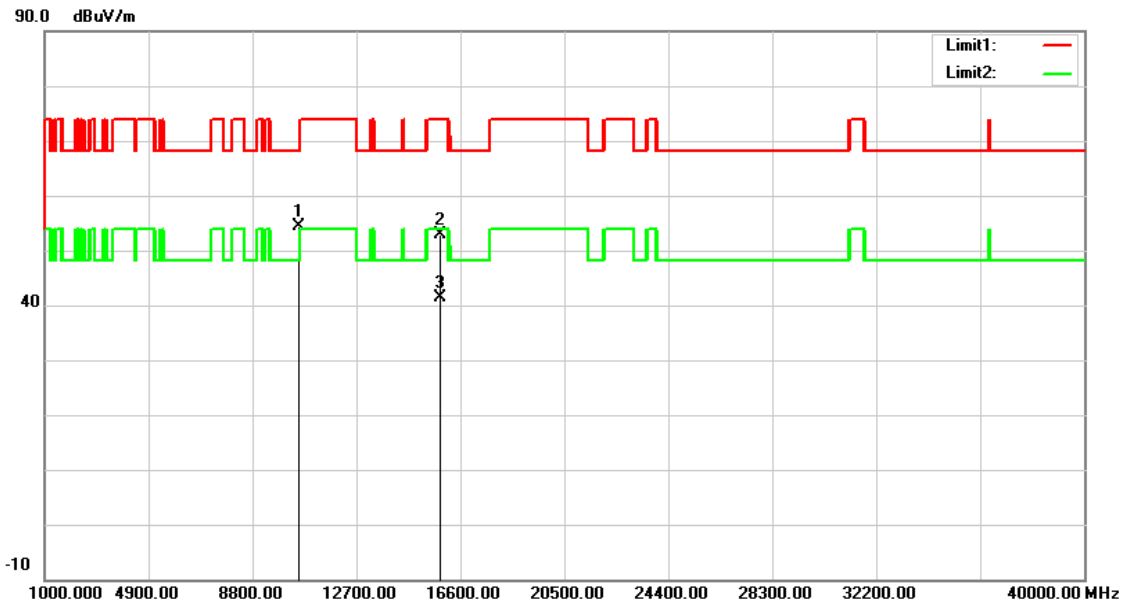
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	35.28	17.66	52.94	68.20	-15.26	peak
2	15780.000	32.69	20.04	52.73	74.00	-21.27	peak
3	15780.000	20.81	20.04	40.85	54.00	-13.15	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5280 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



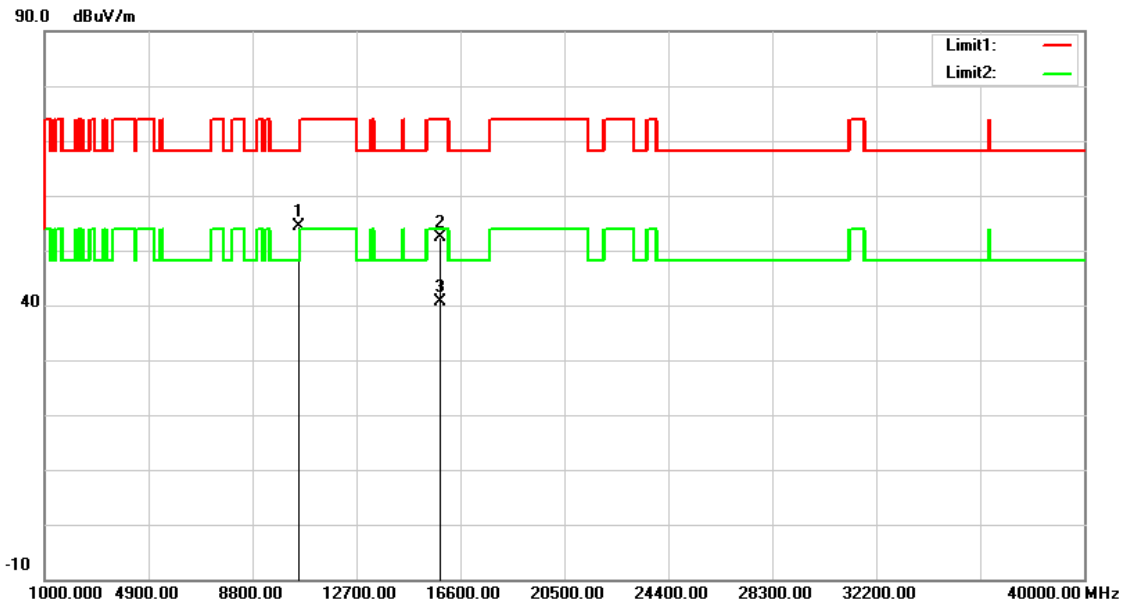
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	36.64	17.74	54.38	68.20	-13.82	peak
2	15840.000	33.06	19.88	52.94	74.00	-21.06	peak
3	15840.000	21.42	19.88	41.30	54.00	-12.70	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5280 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



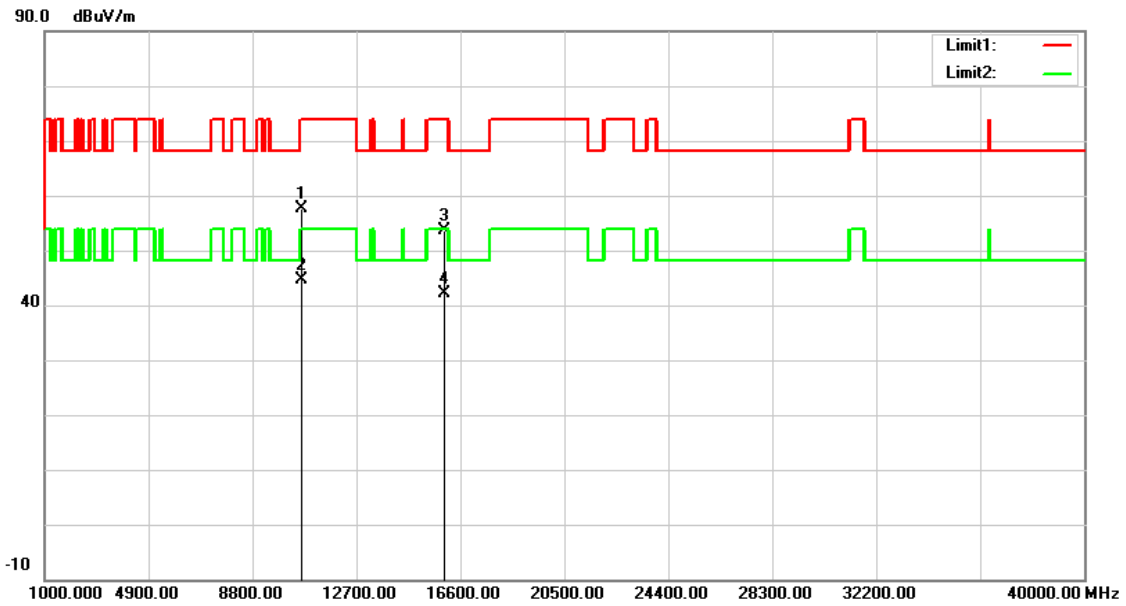
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	36.71	17.74	54.45	68.20	-13.75	peak
2	15840.000	32.55	19.88	52.43	74.00	-21.57	peak
3	15840.000	20.64	19.88	40.52	54.00	-13.48	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5320 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



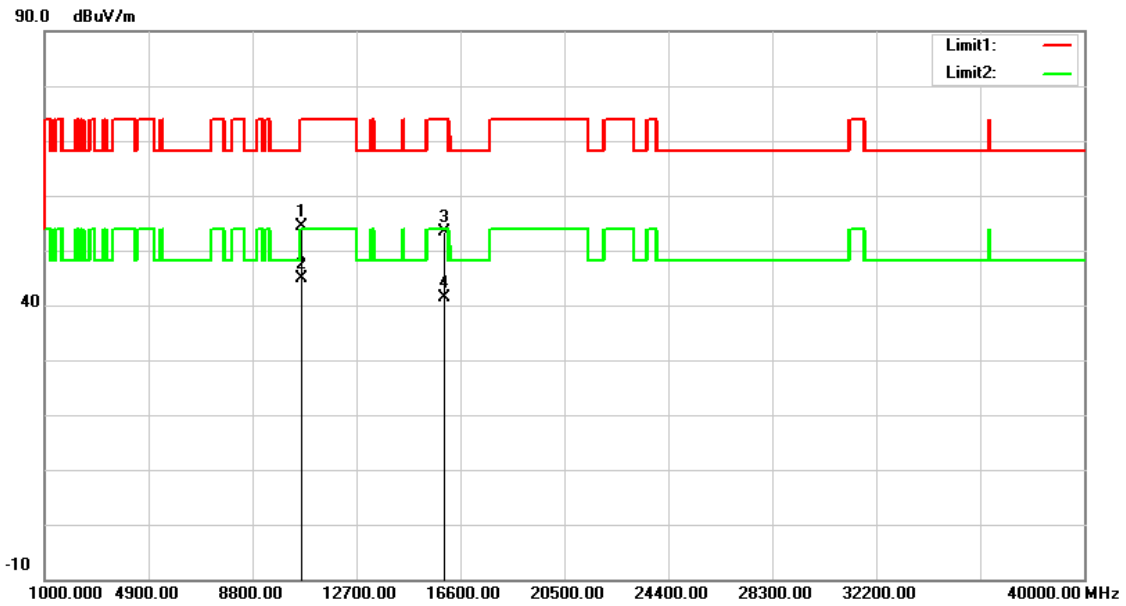
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	39.81	17.91	57.72	74.00	-16.28	peak
2	10640.000	26.70	17.91	44.61	54.00	-9.39	AVG
3	15960.000	34.11	19.57	53.68	74.00	-20.32	peak
4	15960.000	22.50	19.57	42.07	54.00	-11.93	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5320 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



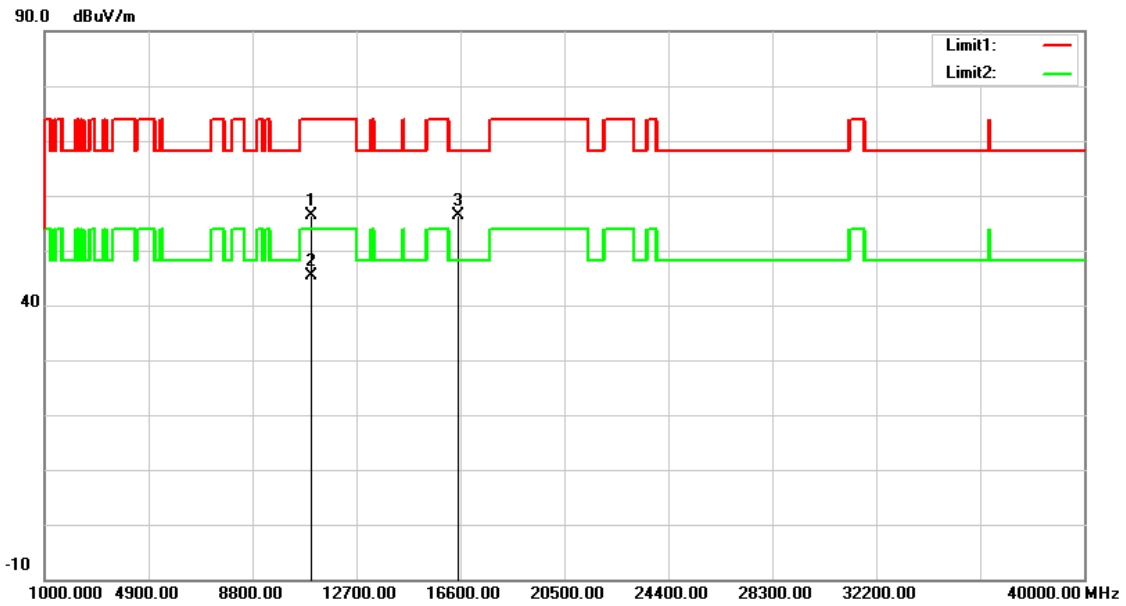
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	36.53	17.91	54.44	74.00	-19.56	peak
2	10640.000	26.96	17.91	44.87	54.00	-9.13	AVG
3	15960.000	33.84	19.57	53.41	74.00	-20.59	peak
4	15960.000	21.69	19.57	41.26	54.00	-12.74	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



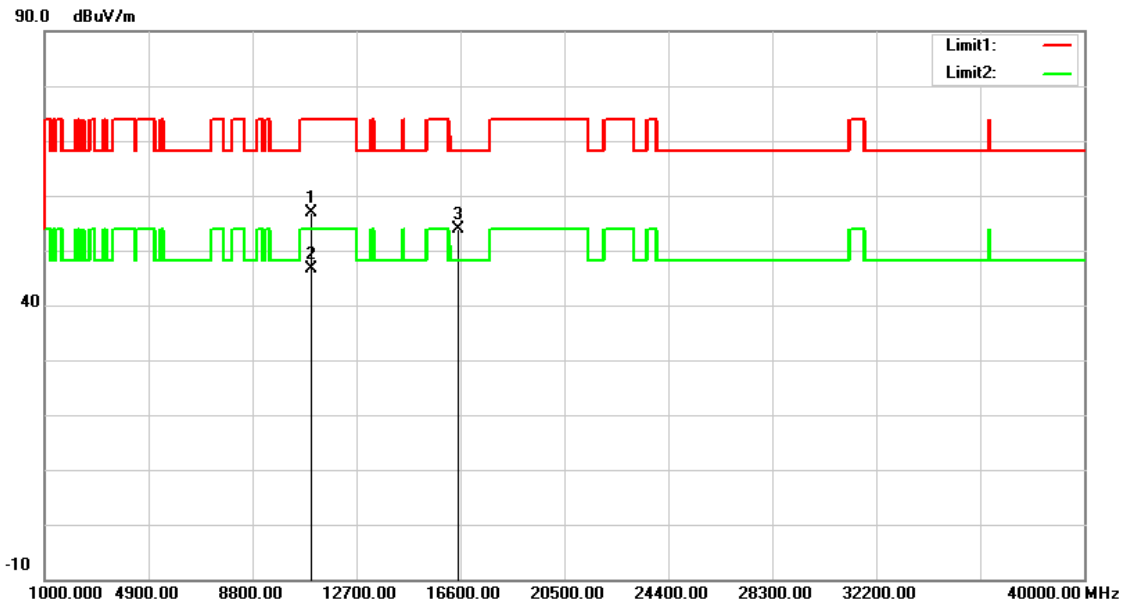
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	37.64	18.65	56.29	74.00	-17.71	peak
2	11000.000	26.83	18.65	45.48	54.00	-8.52	AVG
3	16500.000	35.11	21.18	56.29	68.20	-11.91	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



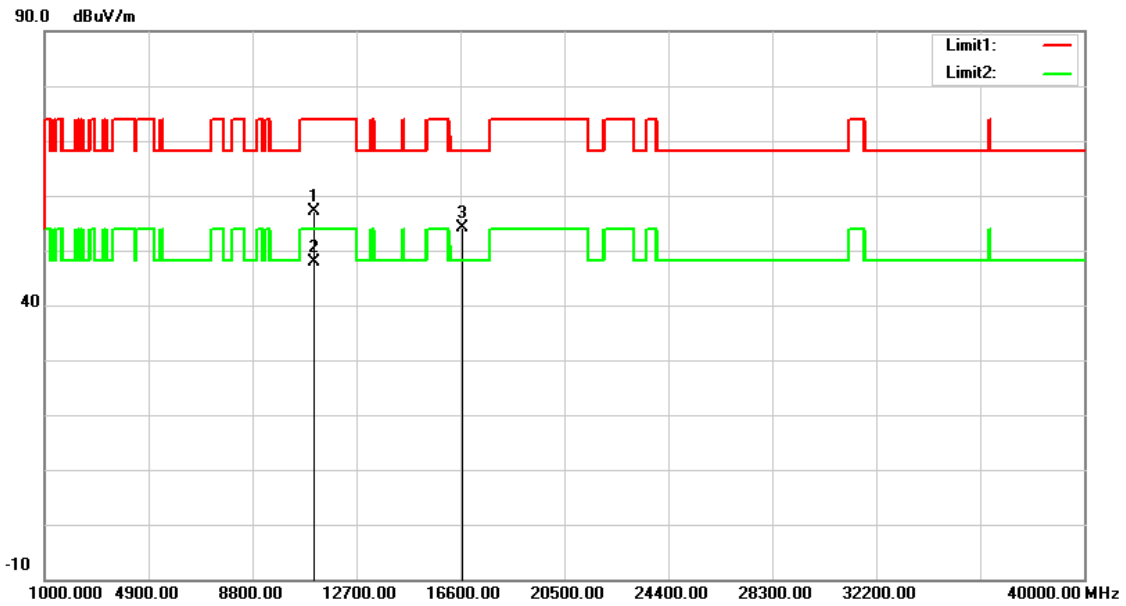
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	38.18	18.65	56.83	74.00	-17.17	peak
2	11000.000	27.90	18.65	46.55	54.00	-7.45	AVG
3	16500.000	32.82	21.18	54.00	68.20	-14.20	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5560 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



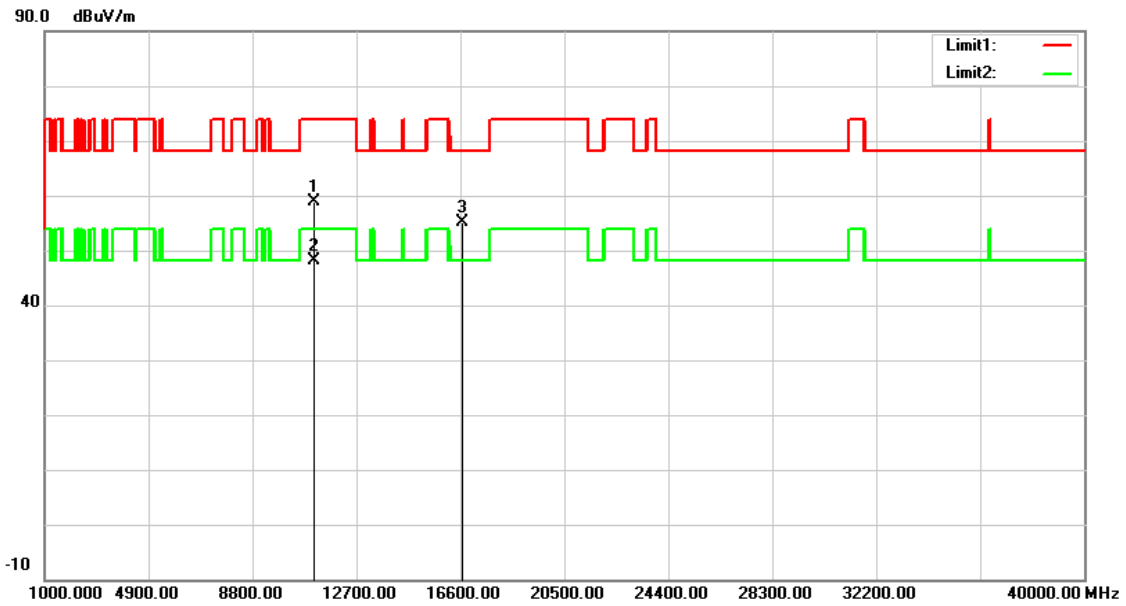
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	38.49	18.74	57.23	74.00	-16.77	peak
2	11120.000	29.14	18.74	47.88	74.00	-26.12	peak
3	16680.000	32.02	22.20	54.22	68.20	-13.98	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5560 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



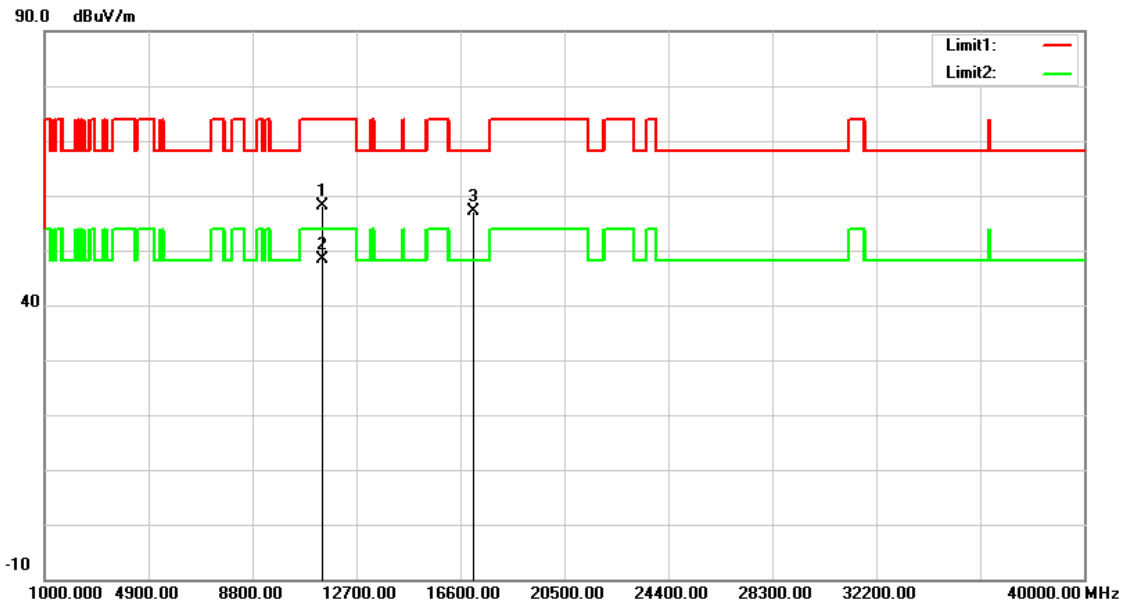
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	40.07	18.74	58.81	74.00	-15.19	peak
2	11120.000	29.30	18.74	48.04	54.00	-5.96	AVG
3	16680.000	32.95	22.20	55.15	68.20	-13.05	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5700 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



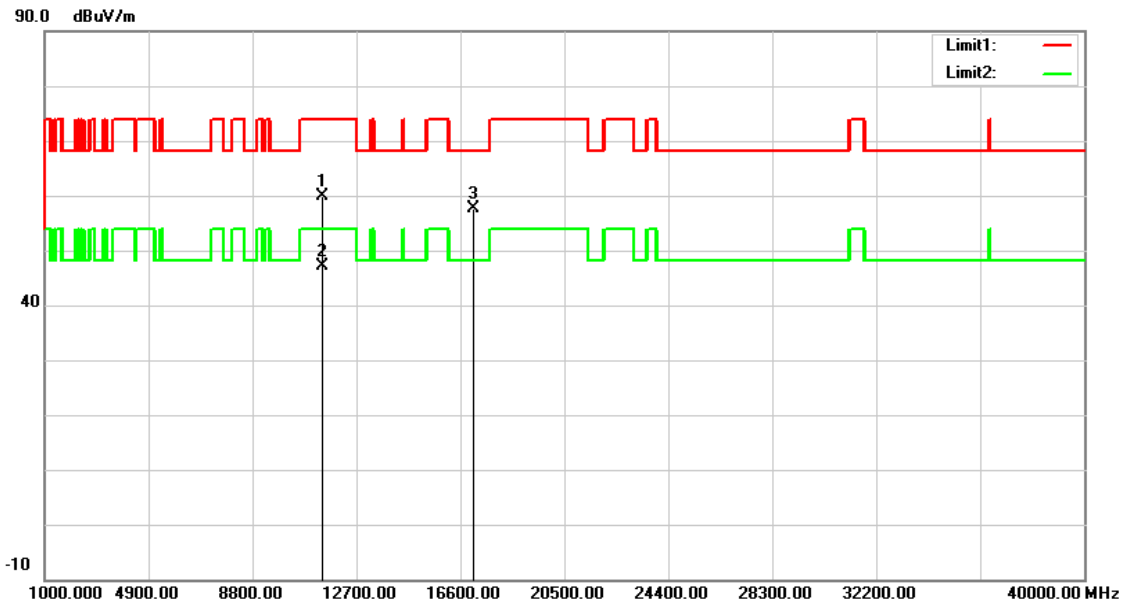
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	39.10	18.93	58.03	74.00	-15.97	peak
2	11400.000	29.50	18.93	48.43	54.00	-5.57	AVG
3	17100.000	32.69	24.32	57.01	68.20	-11.19	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5700 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



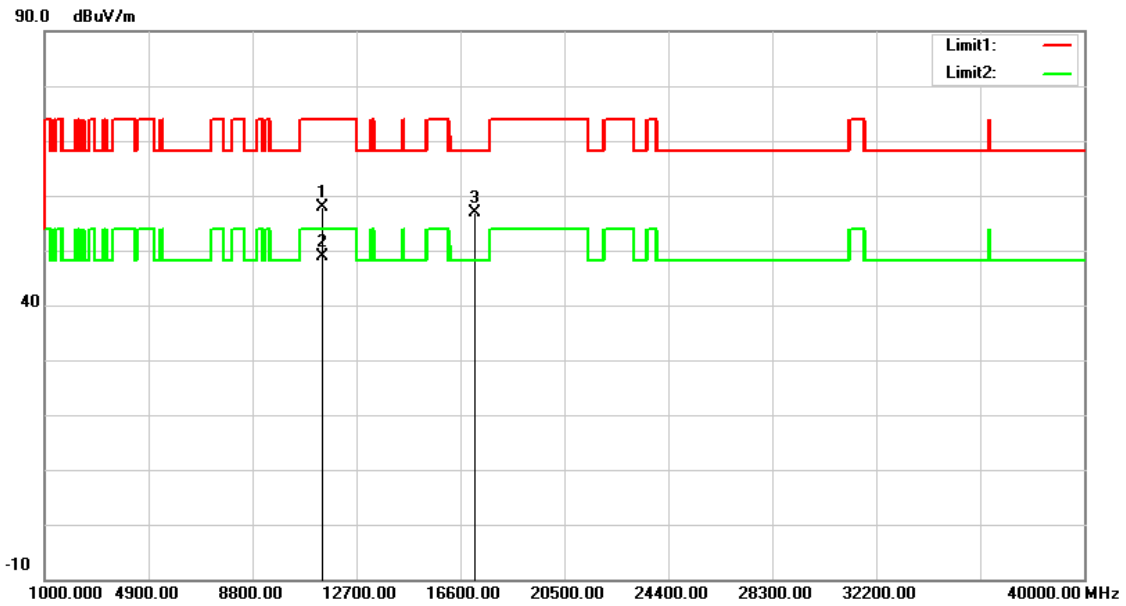
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	40.84	18.93	59.77	74.00	-14.23	peak
2	11400.000	28.23	18.93	47.16	54.00	-6.84	AVG
3	17100.000	33.25	24.32	57.57	68.20	-10.63	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5720 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



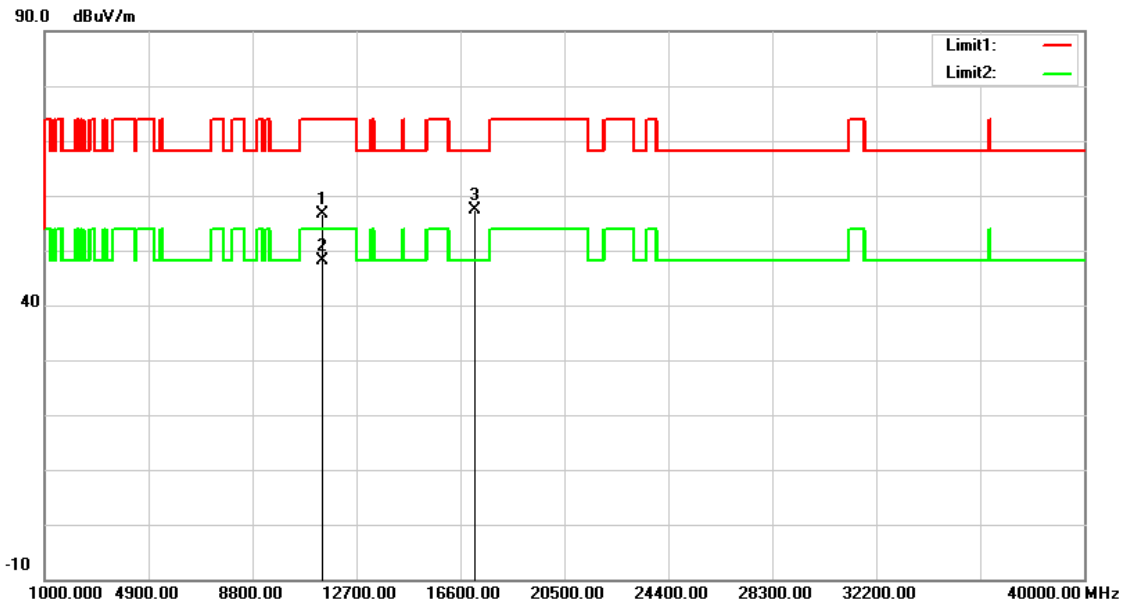
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11440.000	38.97	18.96	57.93	74.00	-16.07	peak
2	11440.000	30.02	18.96	48.98	54.00	-5.02	AVG
3	17160.000	32.47	24.53	57.00	68.20	-11.20	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5720 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



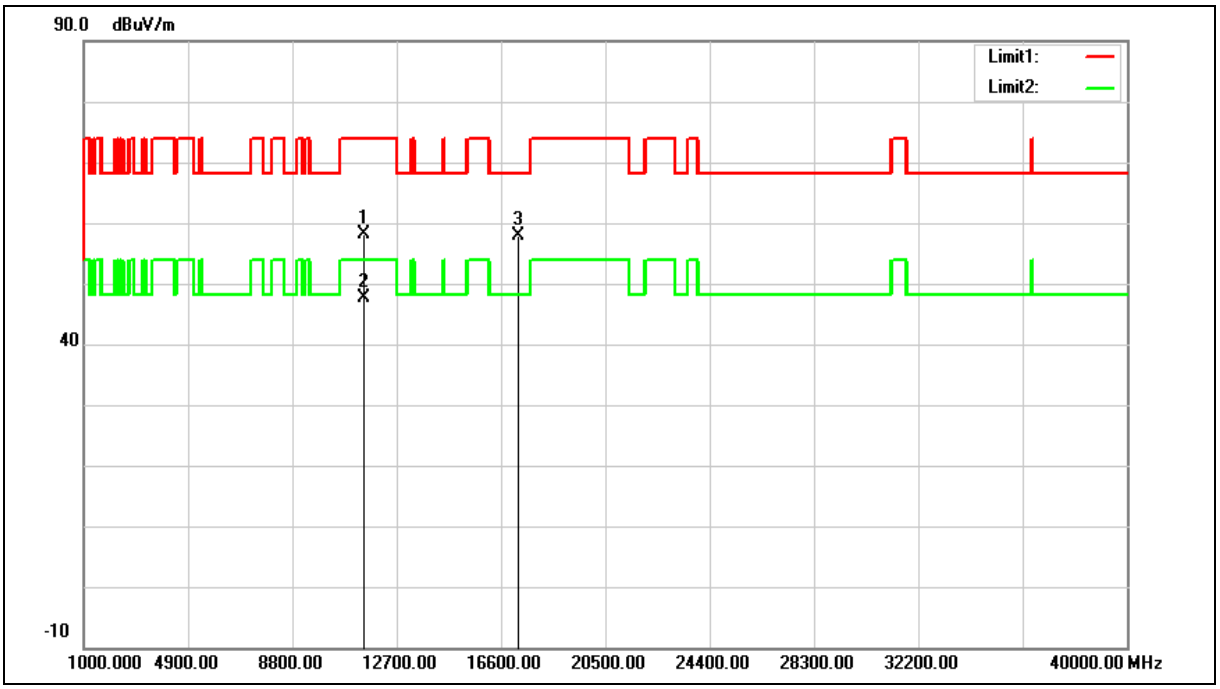
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11440.000	37.70	18.96	56.66	74.00	-17.34	peak
2	11440.000	29.07	18.96	48.03	54.00	-5.97	AVG
3	17160.000	32.83	24.53	57.36	68.20	-10.84	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



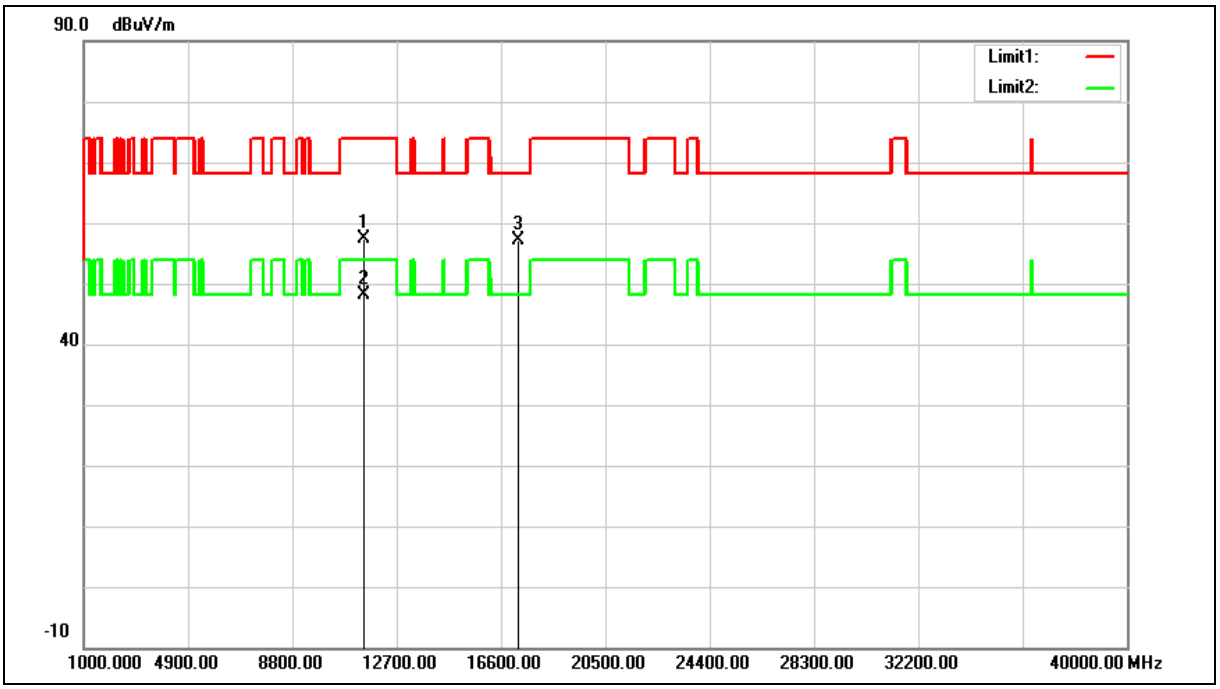
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	39.03	18.99	58.02	74.00	-15.98	peak
2	11490.000	28.56	18.99	47.55	54.00	-6.45	AVG
3	17235.000	33.16	24.77	57.93	68.20	-10.27	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



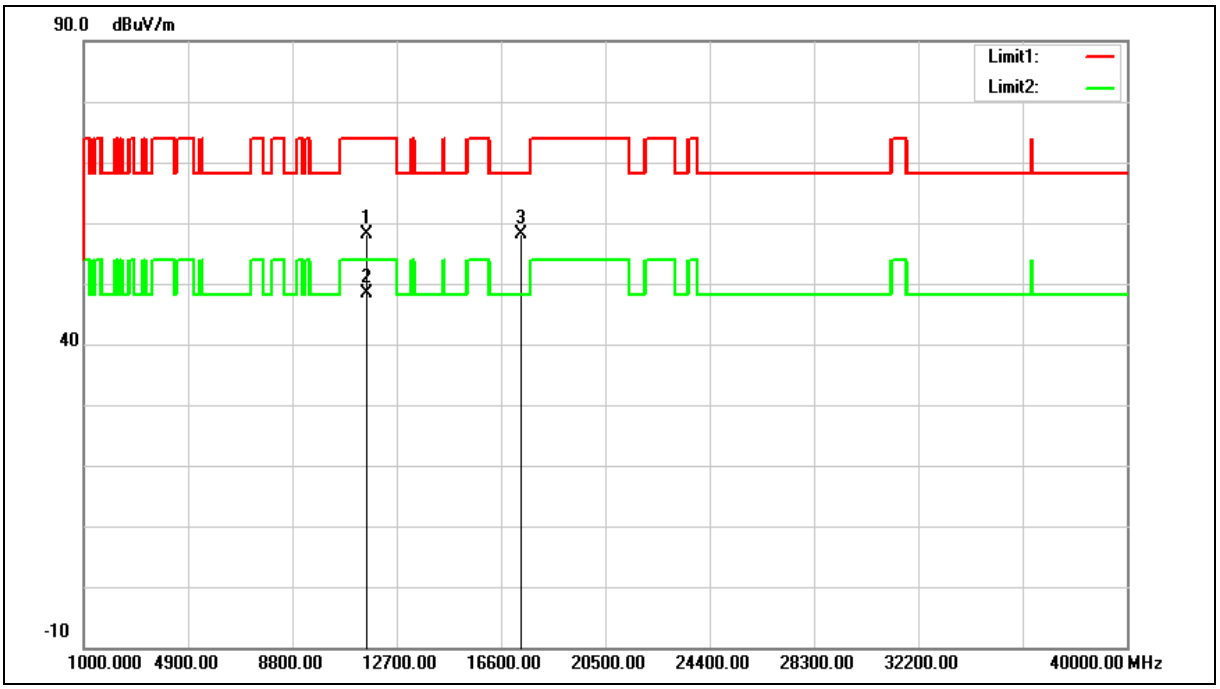
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	38.37	18.99	57.36	74.00	-16.64	peak
2	11490.000	29.25	18.99	48.24	54.00	-5.76	AVG
3	17235.000	32.36	24.77	57.13	68.20	-11.07	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



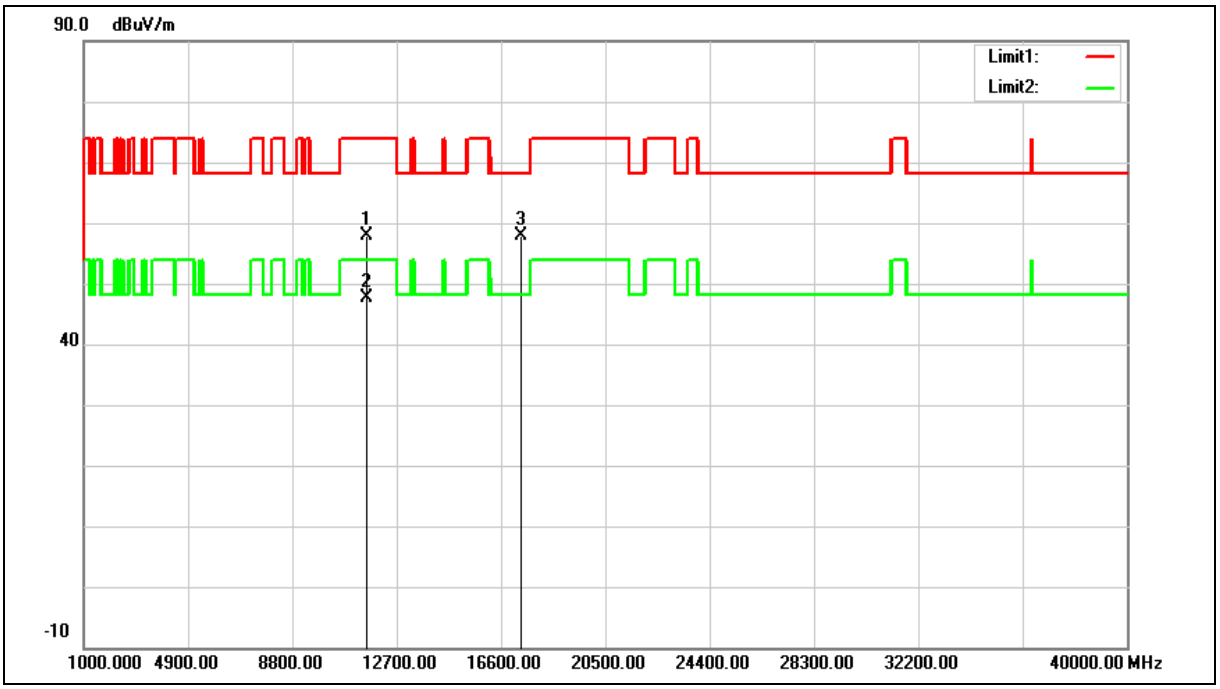
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	39.20	18.94	58.14	74.00	-15.86	peak
2	11570.000	29.39	18.94	48.33	54.00	-5.67	AVG
3	17355.000	32.95	25.18	58.13	68.20	-10.07	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



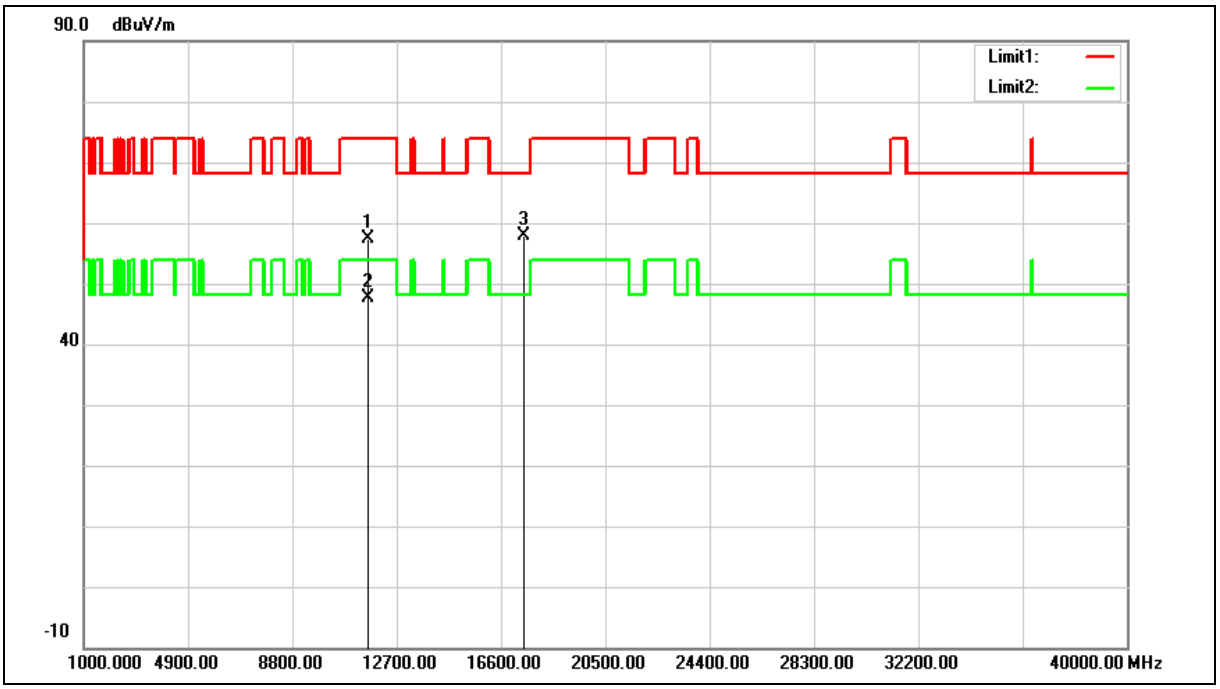
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	38.85	18.94	57.79	74.00	-16.21	peak
2	11570.000	28.70	18.94	47.64	54.00	-6.36	AVG
3	17355.000	32.74	25.18	57.92	68.20	-10.28	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



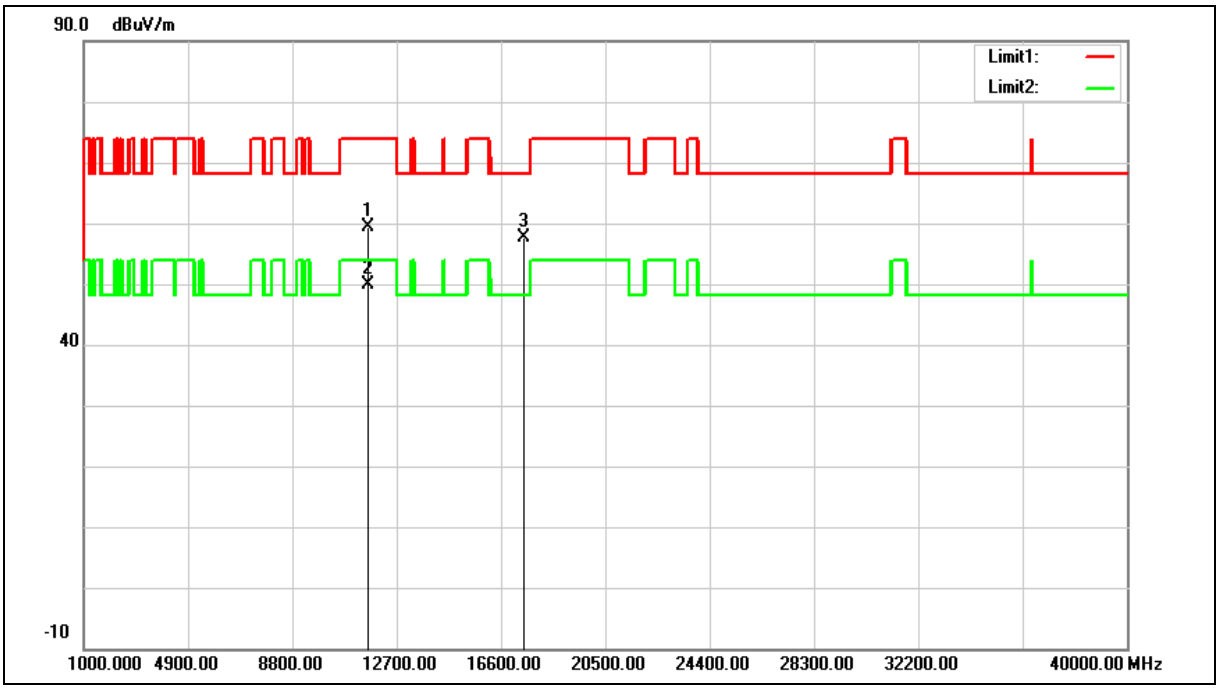
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	38.39	18.88	57.27	74.00	-16.73	peak
2	11650.000	28.87	18.88	47.75	54.00	-6.25	AVG
3	17475.000	32.20	25.57	57.77	68.20	-10.43	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



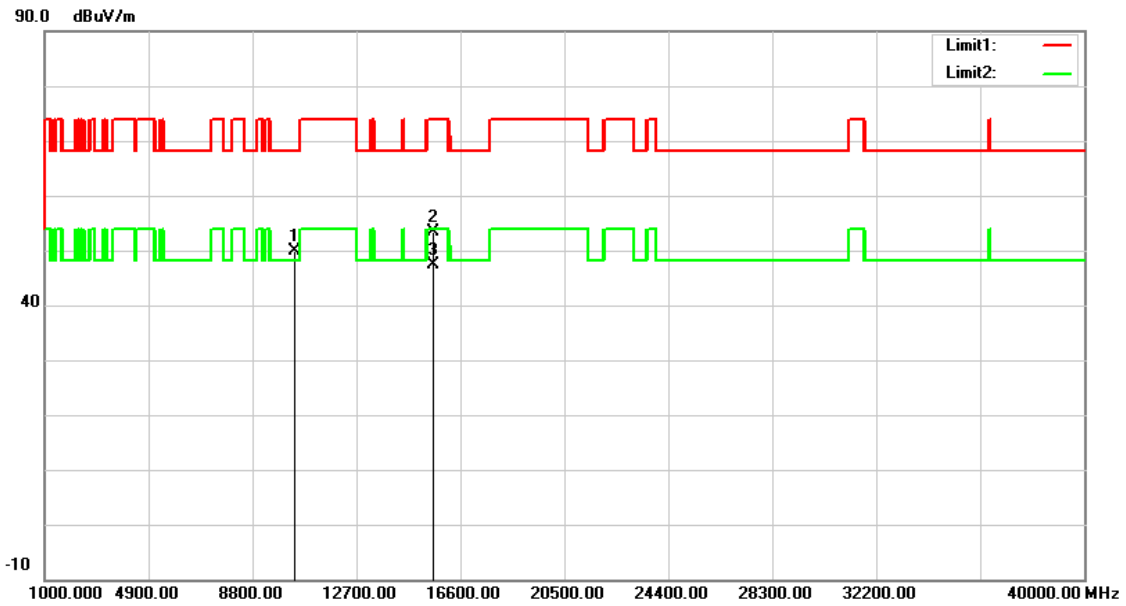
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	40.62	18.88	59.50	74.00	-14.50	peak
2	11650.000	31.11	18.88	49.99	54.00	-4.01	AVG
3	17475.000	32.10	25.57	57.67	68.20	-10.53	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5190 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



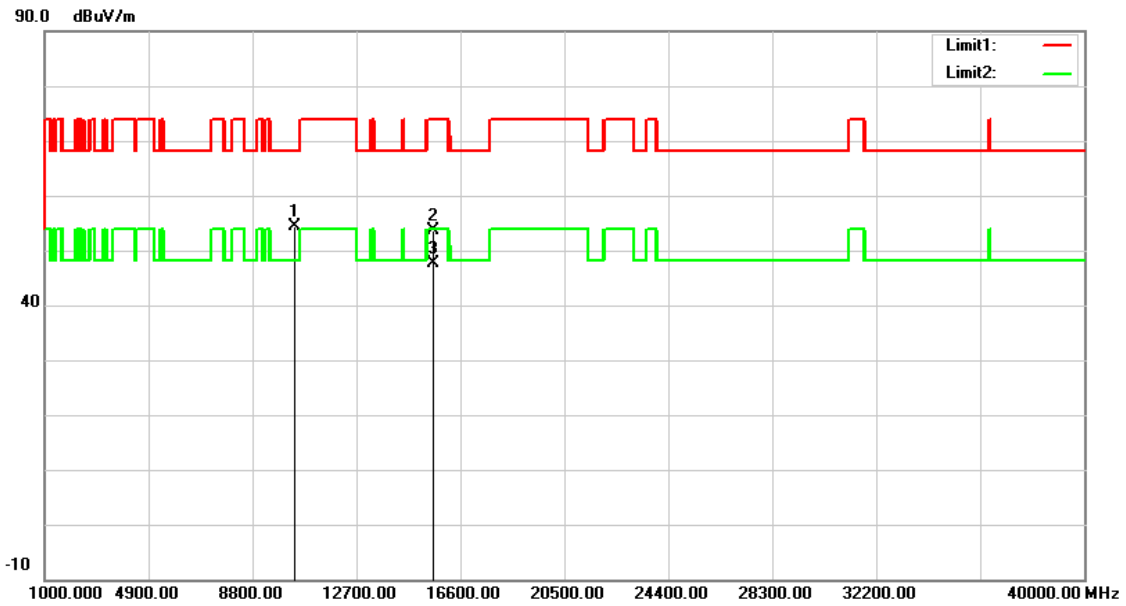
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	32.56	17.23	49.79	68.20	-18.41	peak
2	15570.000	32.89	20.61	53.50	74.00	-20.50	peak
3	15570.000	26.87	20.61	47.48	54.00	-6.52	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5190 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



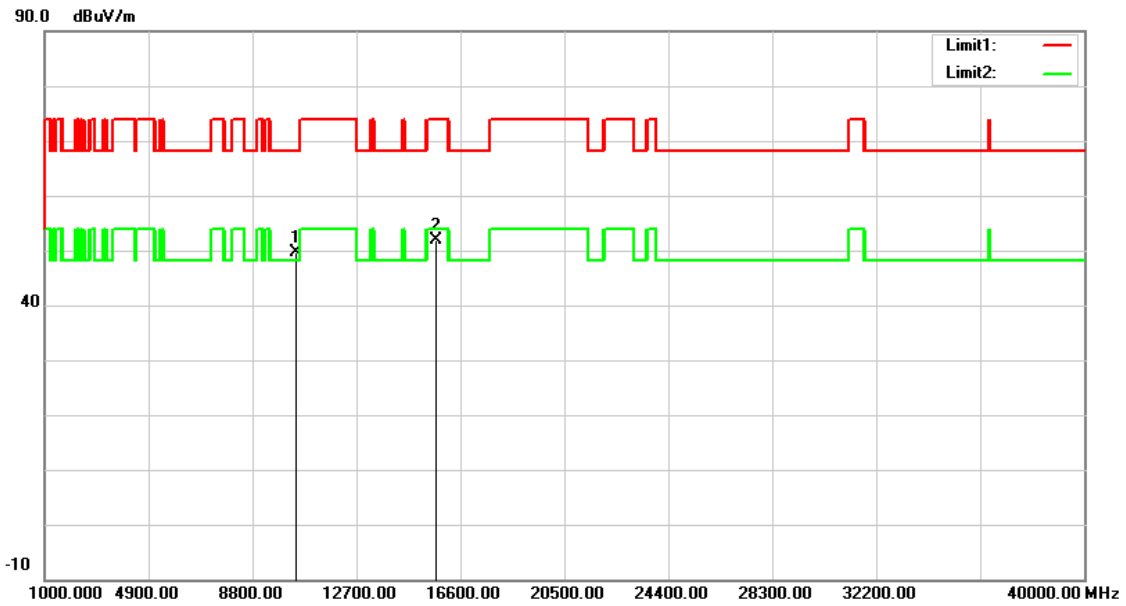
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	37.22	17.23	54.45	68.20	-13.75	peak
2	15570.000	32.94	20.61	53.55	74.00	-20.45	peak
3	15570.000	26.91	20.61	47.52	54.00	-6.48	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5230 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



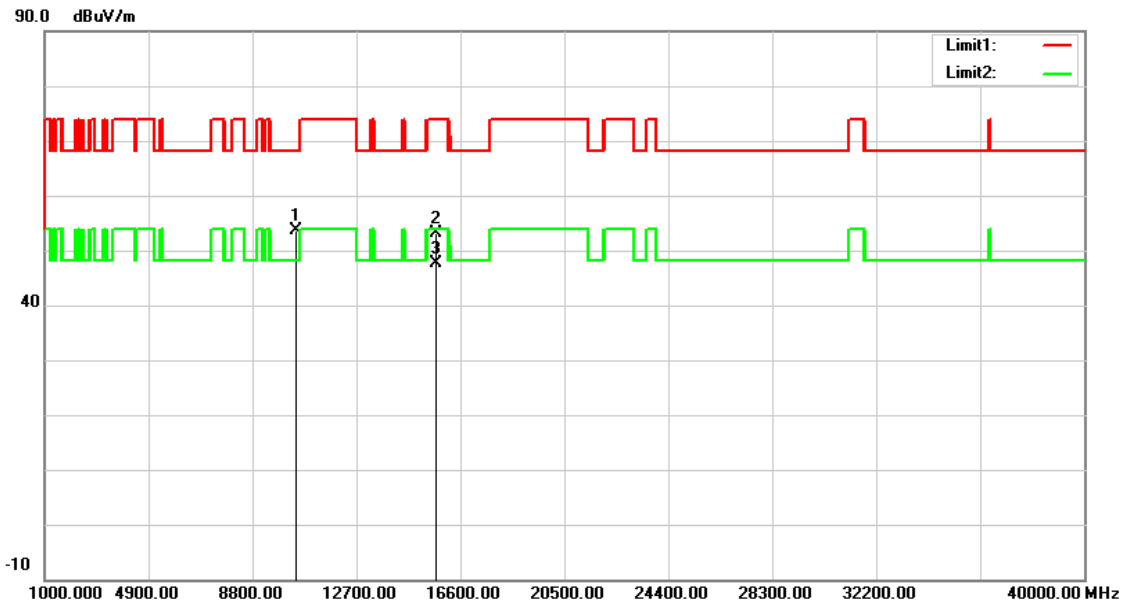
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	32.11	17.49	49.60	68.20	-18.60	peak
2	15690.000	31.70	20.28	51.98	74.00	-22.02	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5230 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



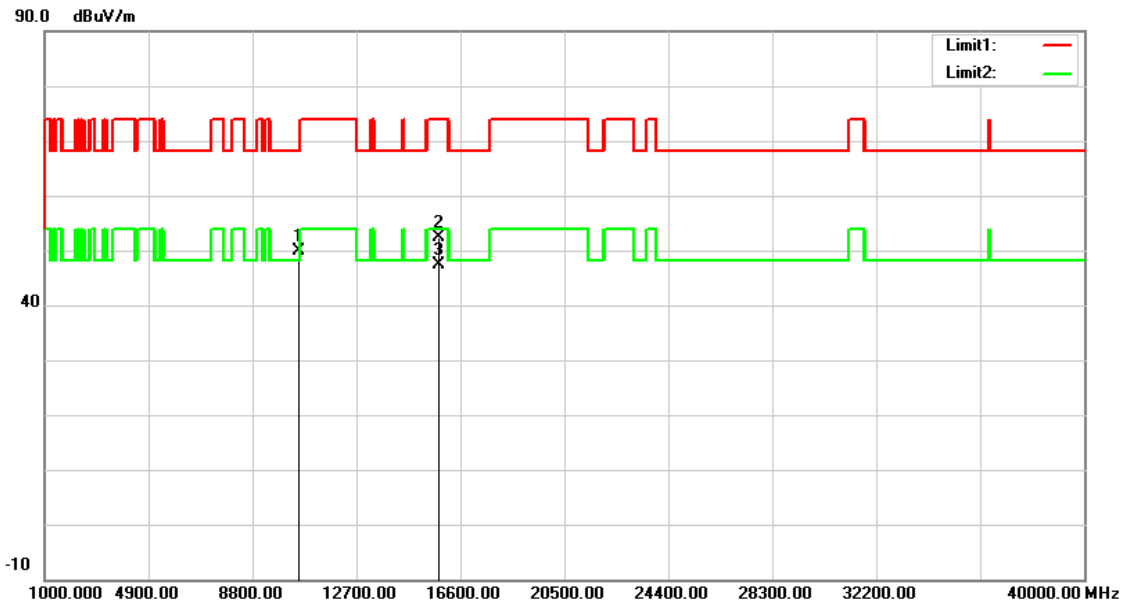
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	36.20	17.49	53.69	68.20	-14.51	peak
2	15690.000	32.76	20.28	53.04	74.00	-20.96	peak
3	15690.000	27.27	20.28	47.55	54.00	-6.45	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5270 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



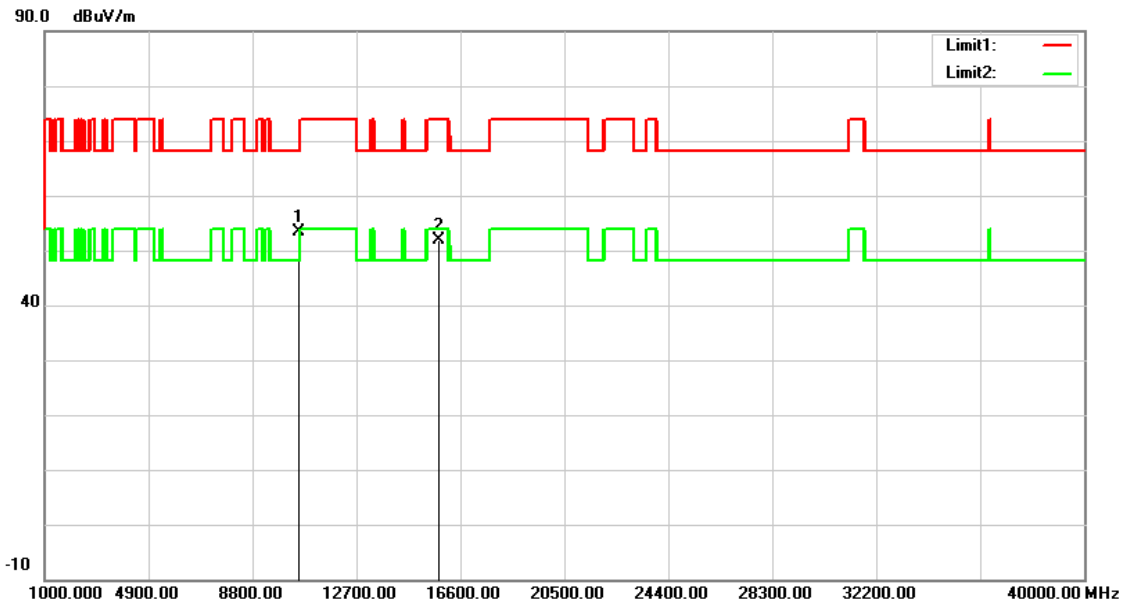
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	32.21	17.71	49.92	68.20	-18.28	peak
2	15810.000	32.50	19.97	52.47	74.00	-21.53	peak
3	15810.000	27.42	19.97	47.39	54.00	-6.61	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5270 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



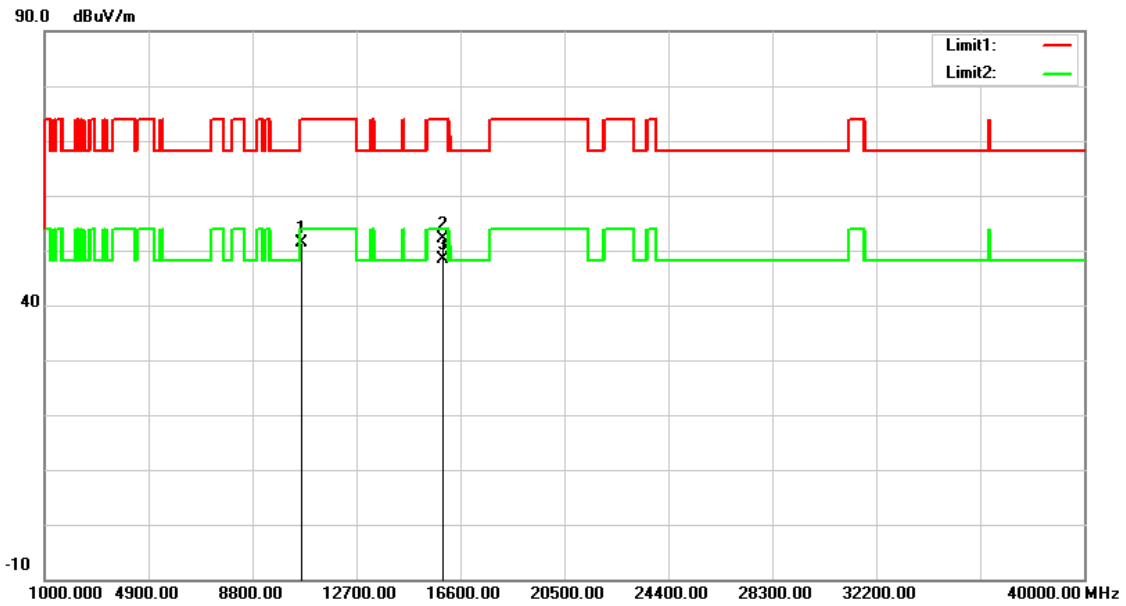
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	35.69	17.71	53.40	68.20	-14.80	peak
2	15810.000	32.02	19.97	51.99	74.00	-22.01	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5310 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



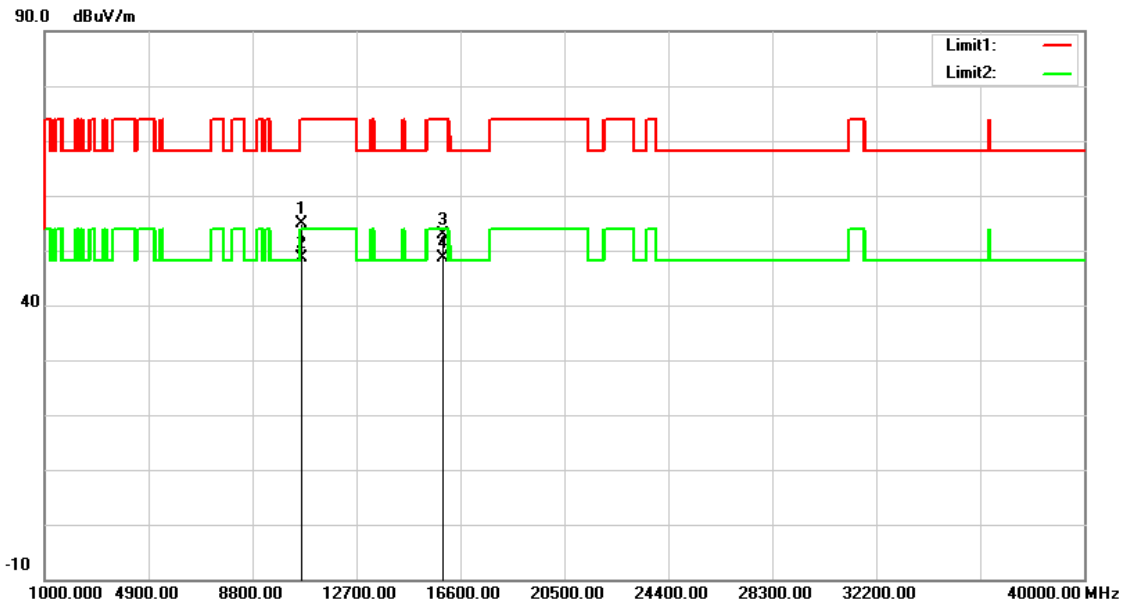
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	33.45	17.87	51.32	74.00	-22.68	peak
2	15930.000	32.49	19.64	52.13	74.00	-21.87	peak
3	15930.000	28.75	19.64	48.39	54.00	-5.61	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5310 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



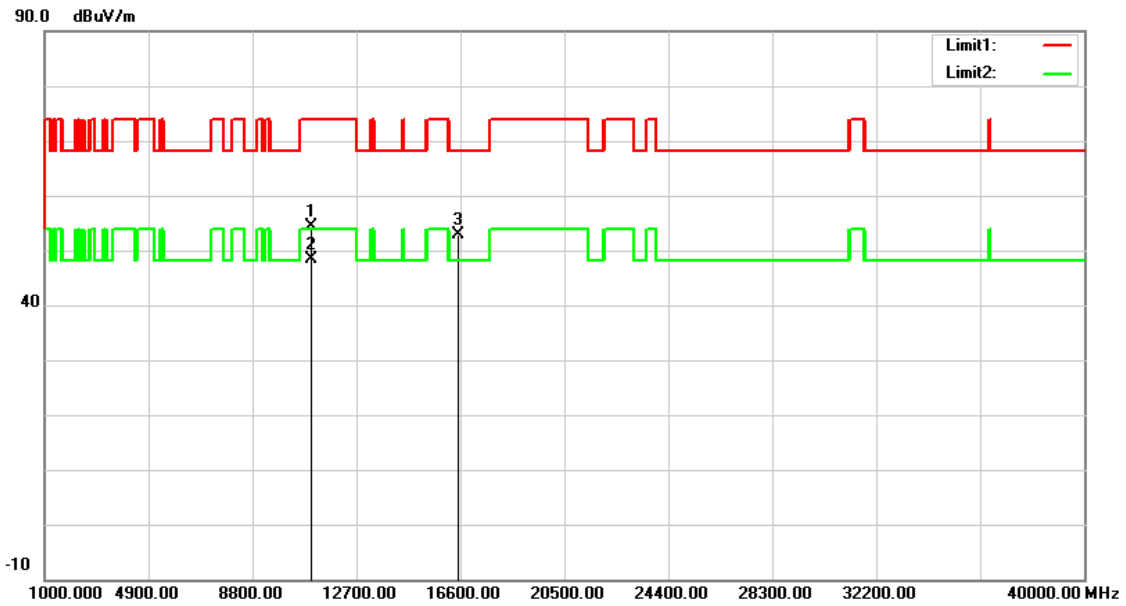
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	37.10	17.87	54.97	74.00	-19.03	peak
2	10620.000	30.77	17.87	48.64	54.00	-5.36	AVG
3	15930.000	33.16	19.64	52.80	74.00	-21.20	peak
4	15930.000	28.87	19.64	48.51	54.00	-5.49	AVG

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5510 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



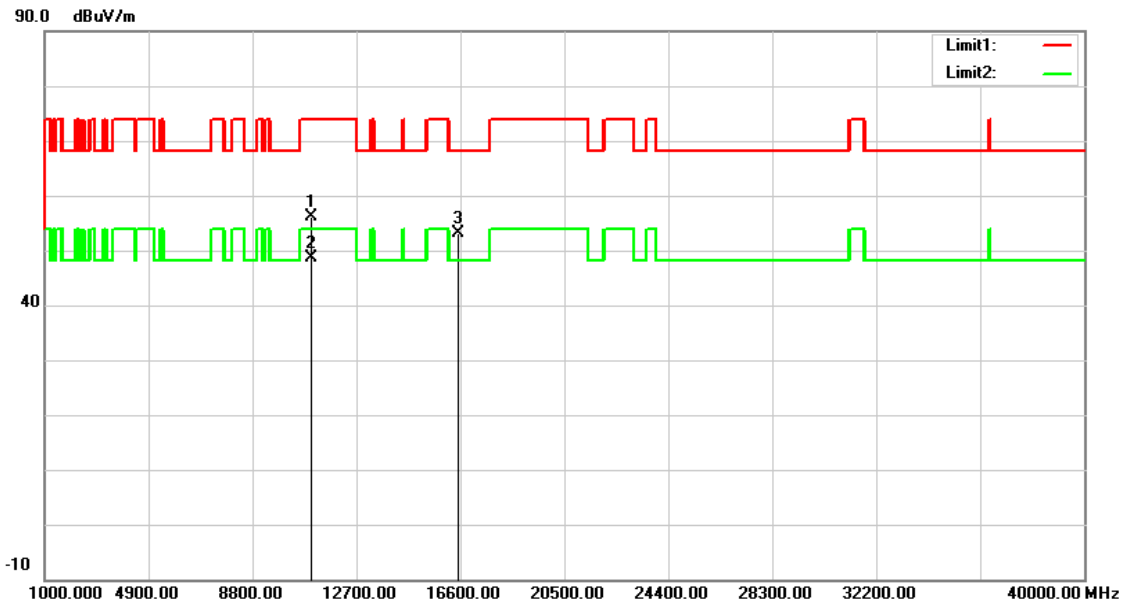
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	35.84	18.66	54.50	74.00	-19.50	peak
2	11020.000	29.78	18.66	48.44	54.00	-5.56	AVG
3	16530.000	31.43	21.35	52.78	68.20	-15.42	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5510 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



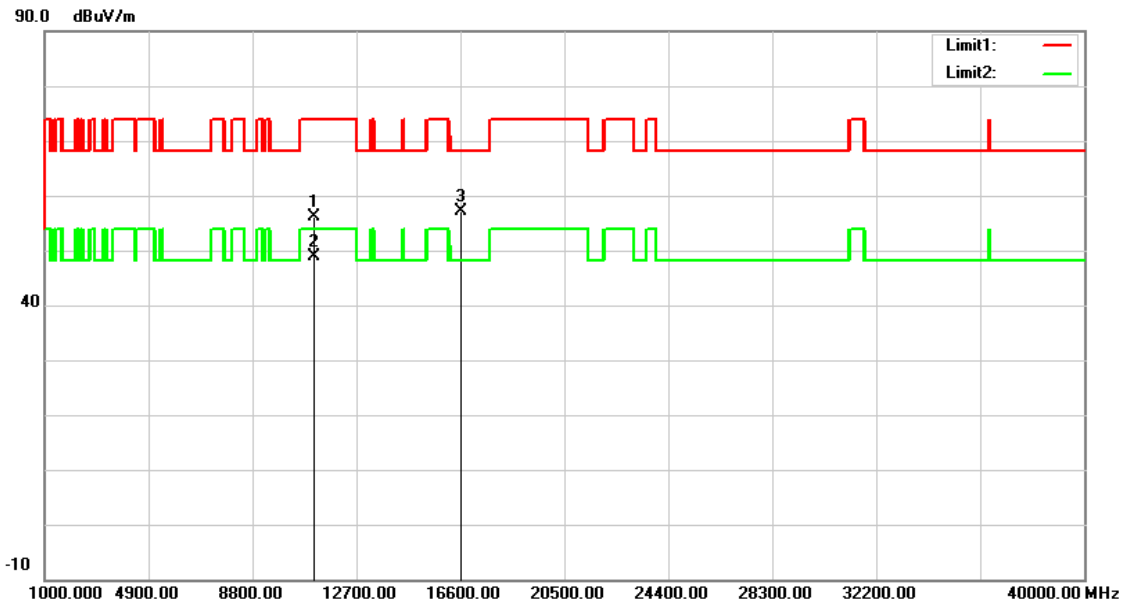
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	37.49	18.66	56.15	74.00	-17.85	peak
2	11020.000	29.93	18.66	48.59	54.00	-5.41	AVG
3	16530.000	31.71	21.35	53.06	68.20	-15.14	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5550 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



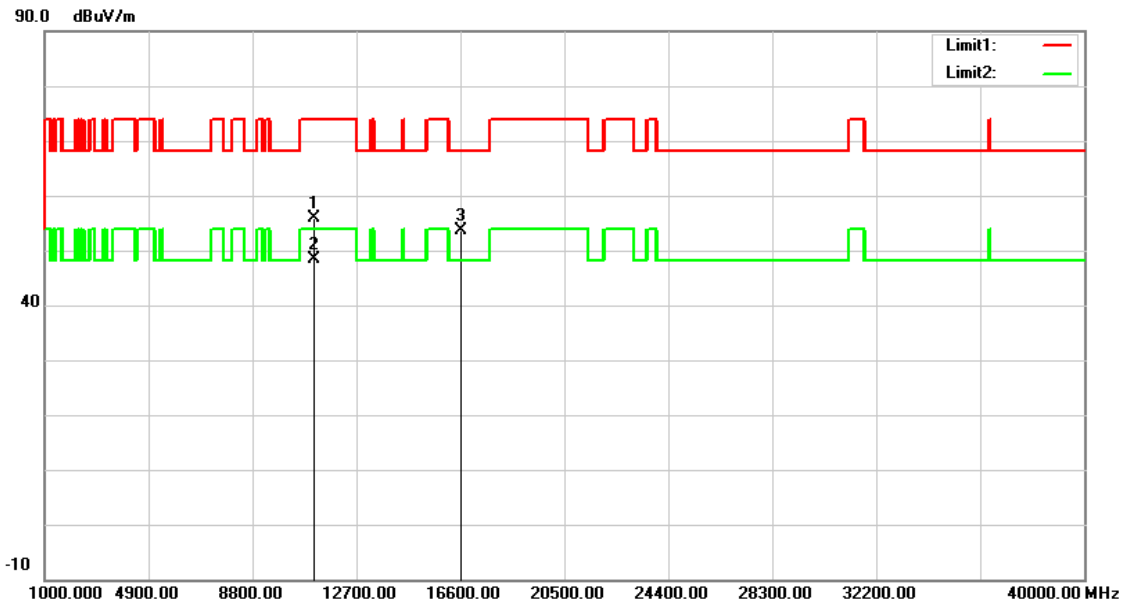
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11100.000	37.53	18.72	56.25	74.00	-17.75	peak
2	11100.000	30.04	18.72	48.76	54.00	-5.24	AVG
3	16650.000	35.19	22.02	57.21	68.20	-10.99	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5550 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



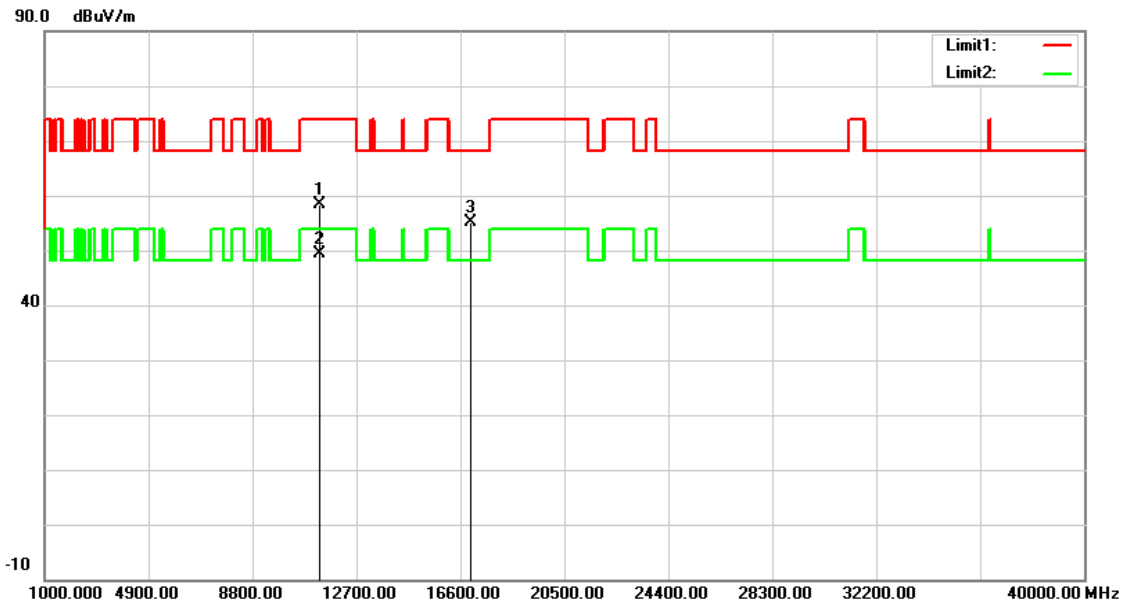
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11100.000	37.28	18.72	56.00	74.00	-18.00	peak
2	11100.000	29.69	18.72	48.41	54.00	-5.59	AVG
3	16650.000	31.50	22.02	53.52	68.20	-14.68	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5670 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



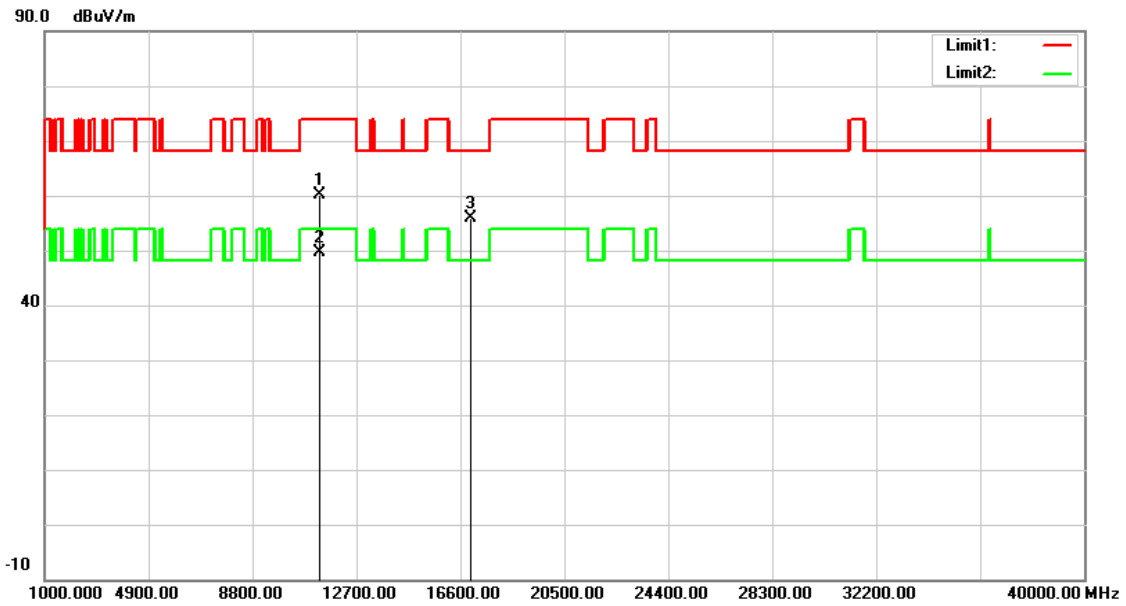
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	39.53	18.88	58.41	74.00	-15.59	peak
2	11340.000	30.60	18.88	49.48	54.00	-4.52	AVG
3	17010.000	31.01	24.03	55.04	68.20	-13.16	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5670 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



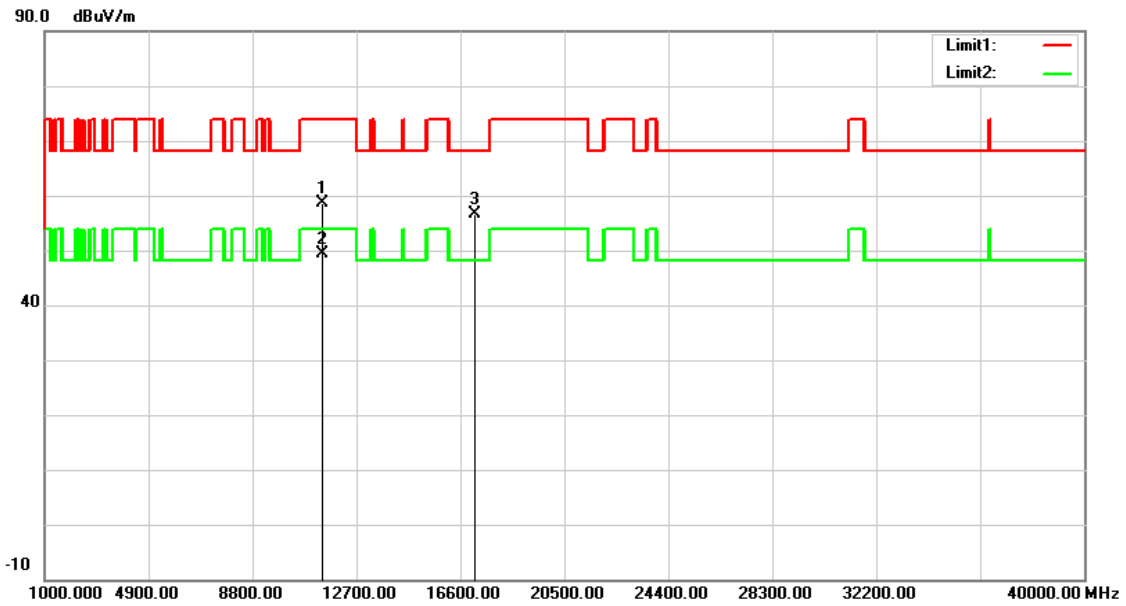
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	41.30	18.88	60.18	74.00	-13.82	peak
2	11340.000	30.74	18.88	49.62	54.00	-4.38	AVG
3	17010.000	31.89	24.03	55.92	68.20	-12.28	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5710 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



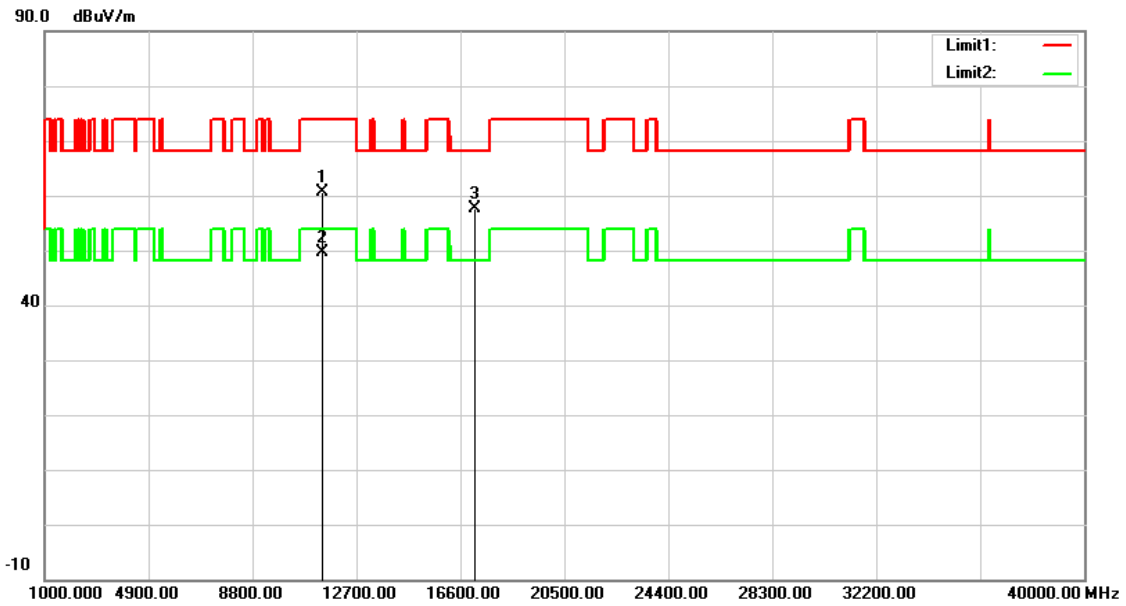
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11420.000	39.77	18.94	58.71	74.00	-15.29	peak
2	11420.000	30.39	18.94	49.33	54.00	-4.67	AVG
3	17130.000	32.17	24.42	56.59	68.20	-11.61	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5710 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



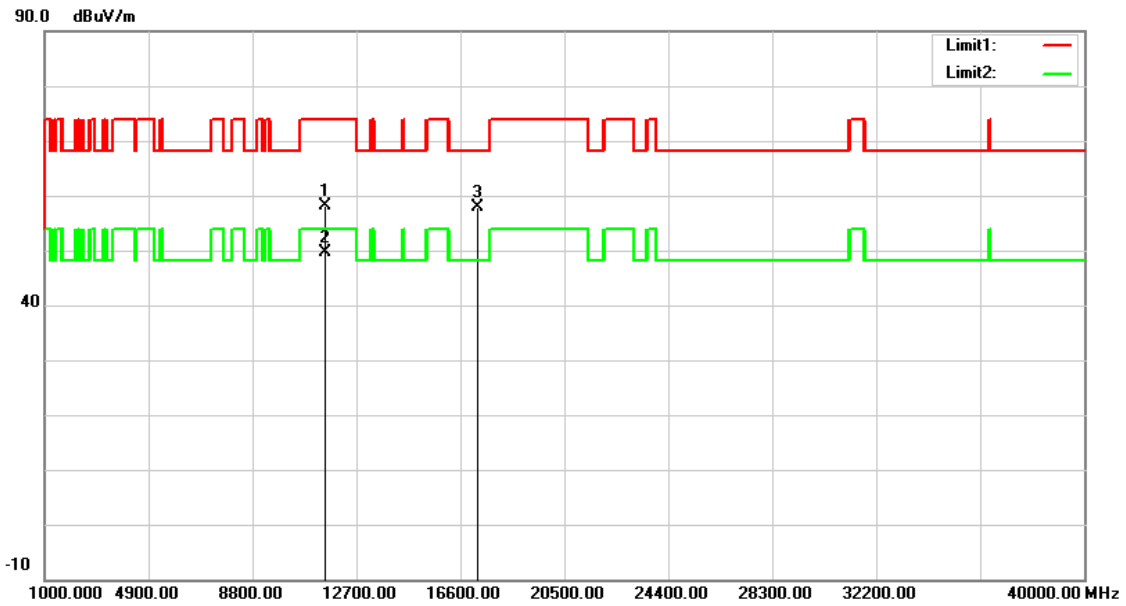
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11420.000	41.70	18.94	60.64	74.00	-13.36	peak
2	11420.000	30.58	18.94	49.52	54.00	-4.48	AVG
3	17130.000	33.17	24.42	57.59	68.20	-10.61	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5755 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



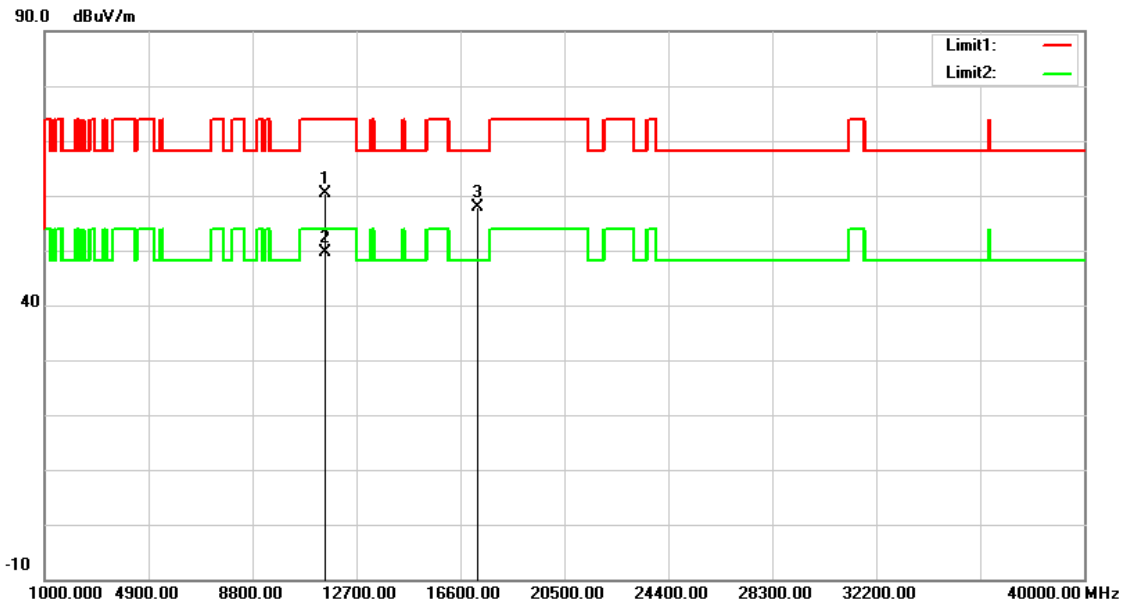
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	39.17	18.99	58.16	74.00	-15.84	peak
2	11510.000	30.56	18.99	49.55	54.00	-4.45	AVG
3	17265.000	33.10	24.88	57.98	68.20	-10.22	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5755 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



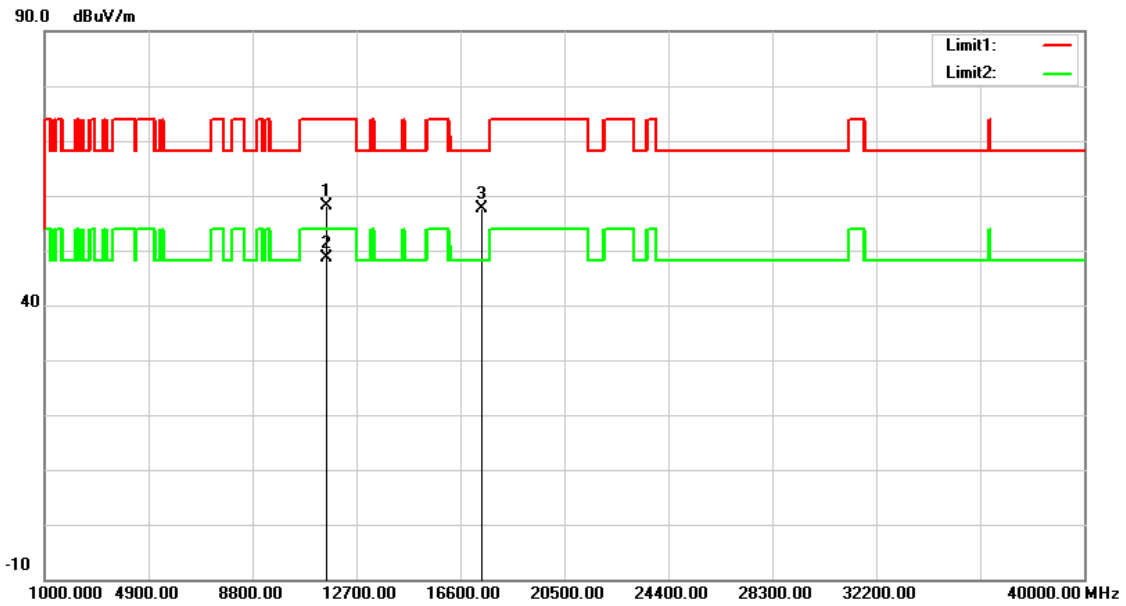
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	41.28	18.99	60.27	74.00	-13.73	peak
2	11510.000	30.64	18.99	49.63	54.00	-4.37	AVG
3	17265.000	32.94	24.88	57.82	68.20	-10.38	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5795 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



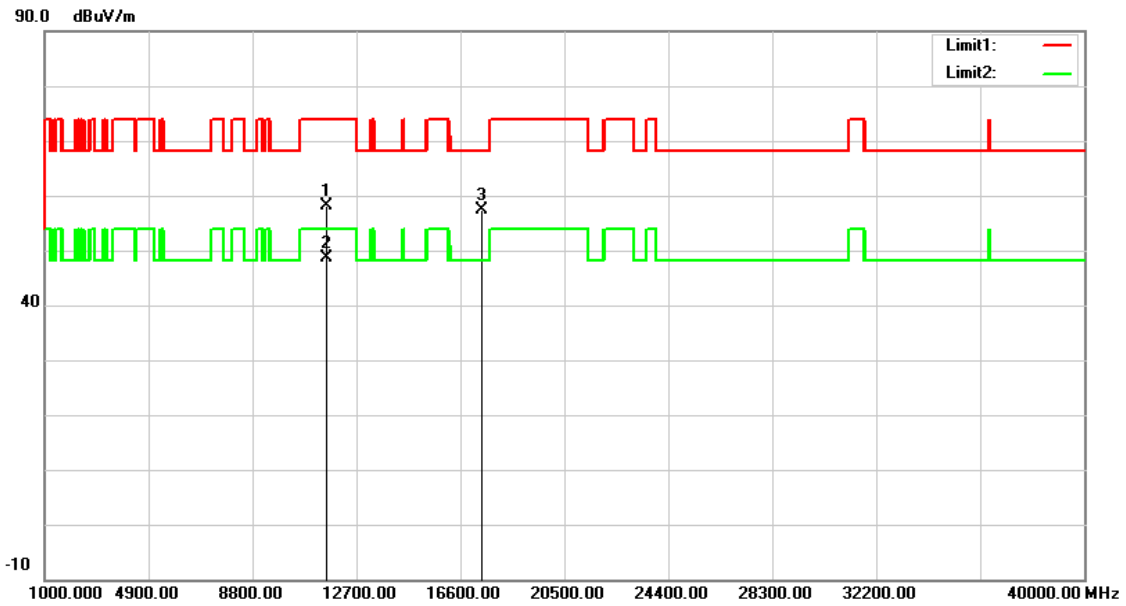
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	39.26	18.93	58.19	74.00	-15.81	peak
2	11590.000	29.62	18.93	48.55	54.00	-5.45	AVG
3	17385.000	32.41	25.27	57.68	68.20	-10.52	peak

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 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 24 V
Frequency:	5795 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/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	11590.000	39.18	18.93	58.11	74.00	-15.89	peak
2	11590.000	29.68	18.93	48.61	54.00	-5.39	AVG
3	17385.000	32.06	25.27	57.33	68.20	-10.87	peak

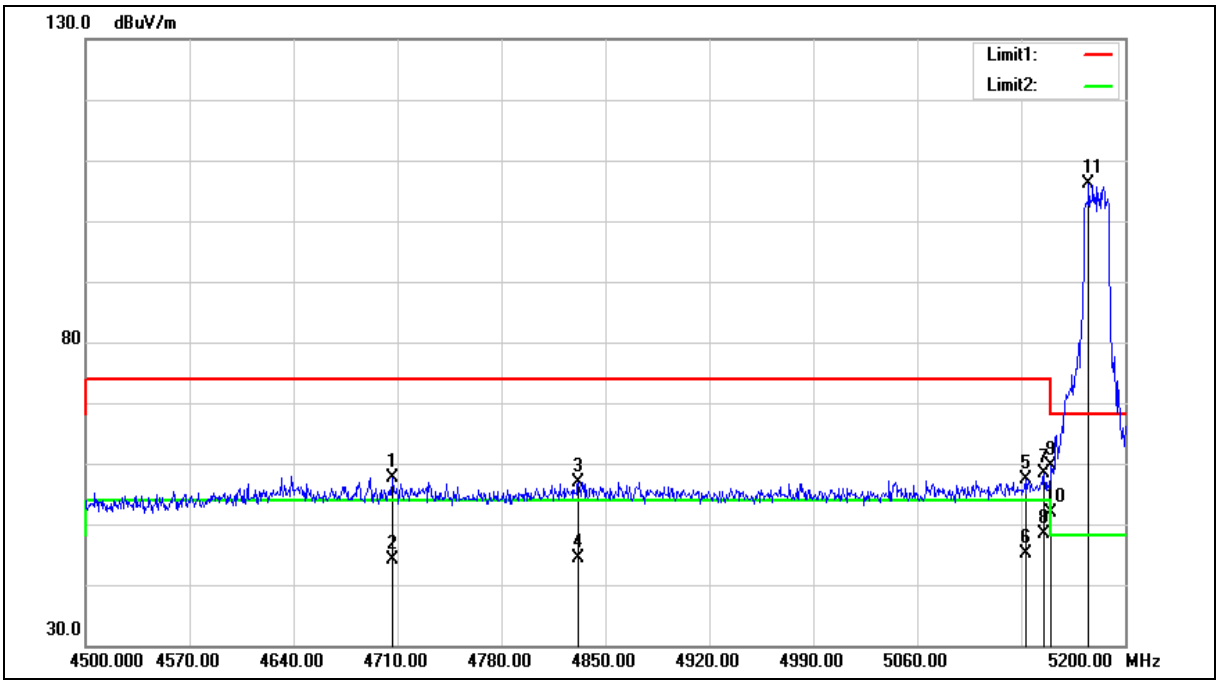
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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.

Band Edge

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

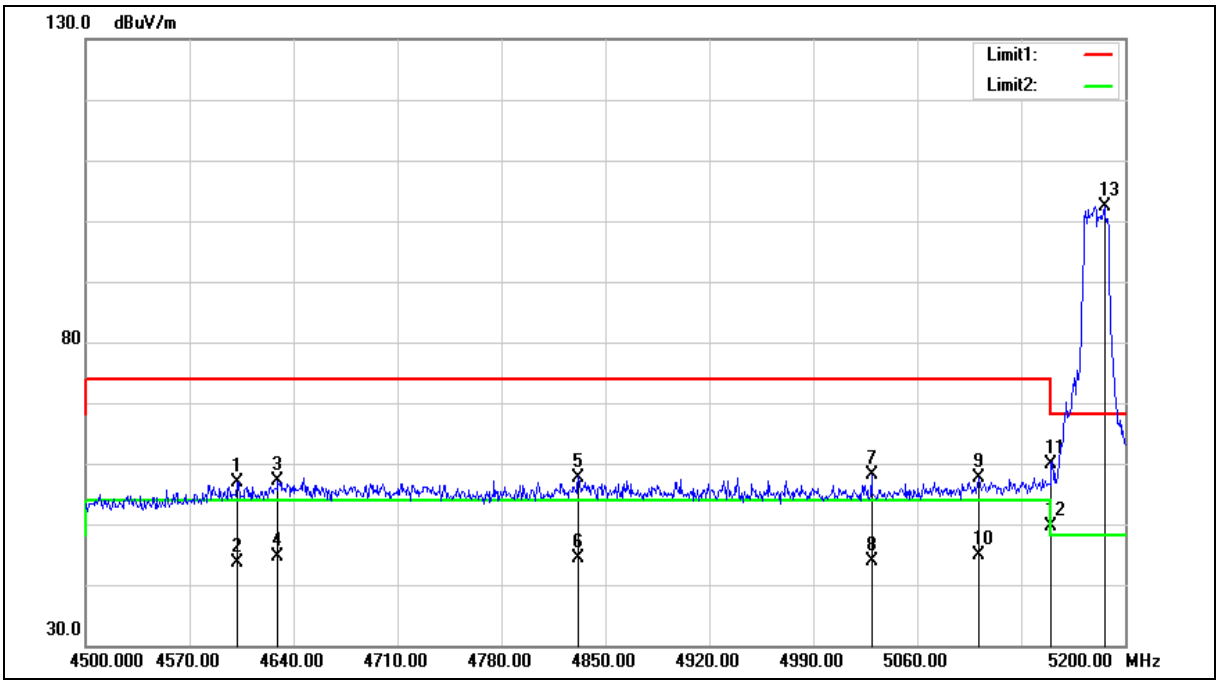
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4706.500	51.88	5.69	57.57	74.00	-16.43	peak
2	4706.500	38.43	5.69	44.12	54.00	-9.88	AVG
3	4831.800	50.99	5.95	56.94	74.00	-17.06	peak
4	4831.800	38.45	5.95	44.40	54.00	-9.60	AVG
5	5132.800	50.60	6.70	57.30	74.00	-16.70	peak
6	5132.800	38.32	6.70	45.02	54.00	-8.98	AVG
7	5145.400	51.60	6.75	58.35	74.00	-15.65	peak
8	5145.400	41.53	6.75	48.28	54.00	-5.72	AVG
9	5150.000	52.90	6.76	59.66	74.00	-14.34	peak
10	5150.000	45.13	6.76	51.89	54.00	-2.11	AVG
11	5175.500	99.19	6.84	106.03	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

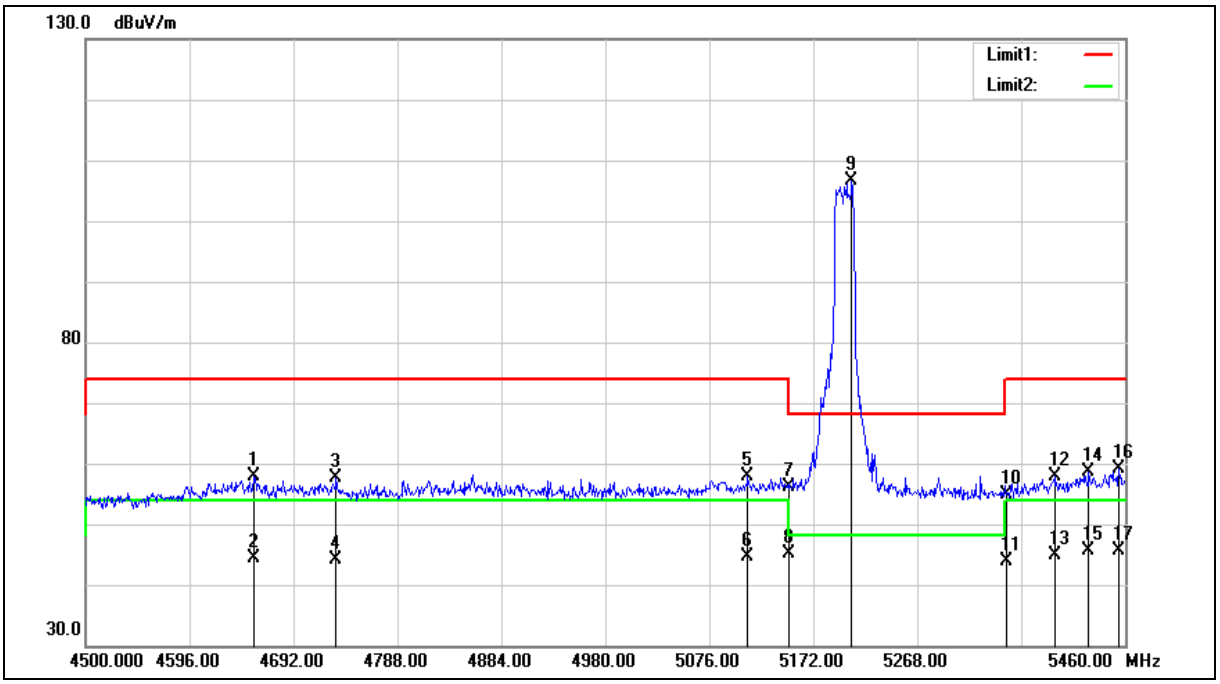
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4602.200	51.34	5.47	56.81	74.00	-17.19	peak
2	4602.200	38.20	5.47	43.67	54.00	-10.33	AVG
3	4629.500	51.71	5.52	57.23	74.00	-16.77	peak
4	4629.500	39.11	5.52	44.63	54.00	-9.37	AVG
5	4831.800	51.80	5.95	57.75	74.00	-16.25	peak
6	4831.800	38.47	5.95	44.42	54.00	-9.58	AVG
7	5029.200	51.74	6.40	58.14	74.00	-15.86	peak
8	5029.200	37.55	6.40	43.95	54.00	-10.05	AVG
9	5101.300	50.94	6.61	57.55	74.00	-16.45	peak
10	5101.300	38.20	6.61	44.81	54.00	-9.19	AVG
11	5150.000	53.10	6.76	59.86	74.00	-14.14	peak
12	5150.000	42.84	6.76	49.60	54.00	-4.40	AVG
13	5186.000	95.55	6.87	102.42	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

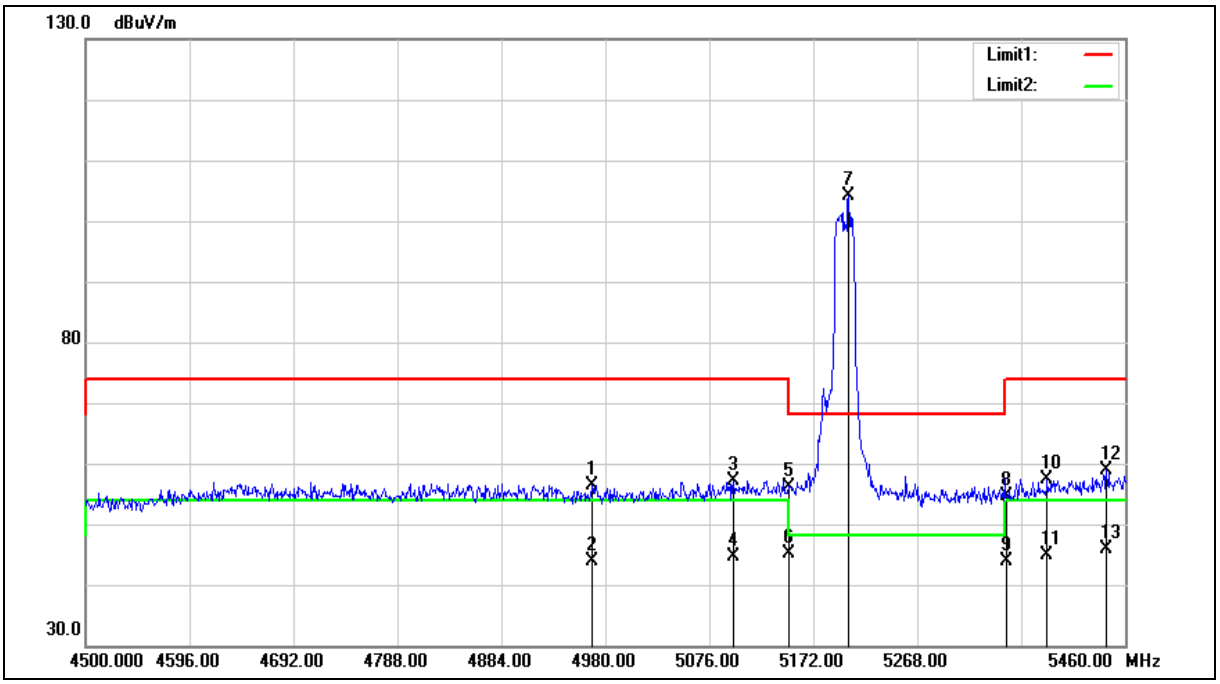
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4655.520	52.37	5.58	57.95	74.00	-16.05	peak
2	4655.520	38.82	5.58	44.40	54.00	-9.60	AVG
3	4731.360	51.94	5.74	57.68	74.00	-16.32	peak
4	4731.360	38.48	5.74	44.22	54.00	-9.78	AVG
5	5111.520	51.19	6.64	57.83	74.00	-16.17	peak
6	5111.520	38.05	6.64	44.69	54.00	-9.31	AVG
7	5150.000	49.41	6.76	56.17	74.00	-17.83	peak
8	5150.000	38.44	6.76	45.20	54.00	-8.80	AVG
9	5207.520	99.67	6.93	106.60	--	--	peak
10	5350.000	47.42	7.35	54.77	74.00	-19.23	peak
11	5350.000	36.54	7.35	43.89	54.00	-10.11	AVG
12	5394.720	50.30	7.48	57.78	74.00	-16.22	peak
13	5394.720	37.52	7.48	45.00	54.00	-9.00	AVG
14	5426.400	50.96	7.59	58.55	74.00	-15.45	peak
15	5426.400	37.98	7.59	45.57	54.00	-8.43	AVG
16	5454.240	51.54	7.66	59.20	74.00	-14.80	peak
17	5454.240	38.04	7.66	45.70	54.00	-8.30	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

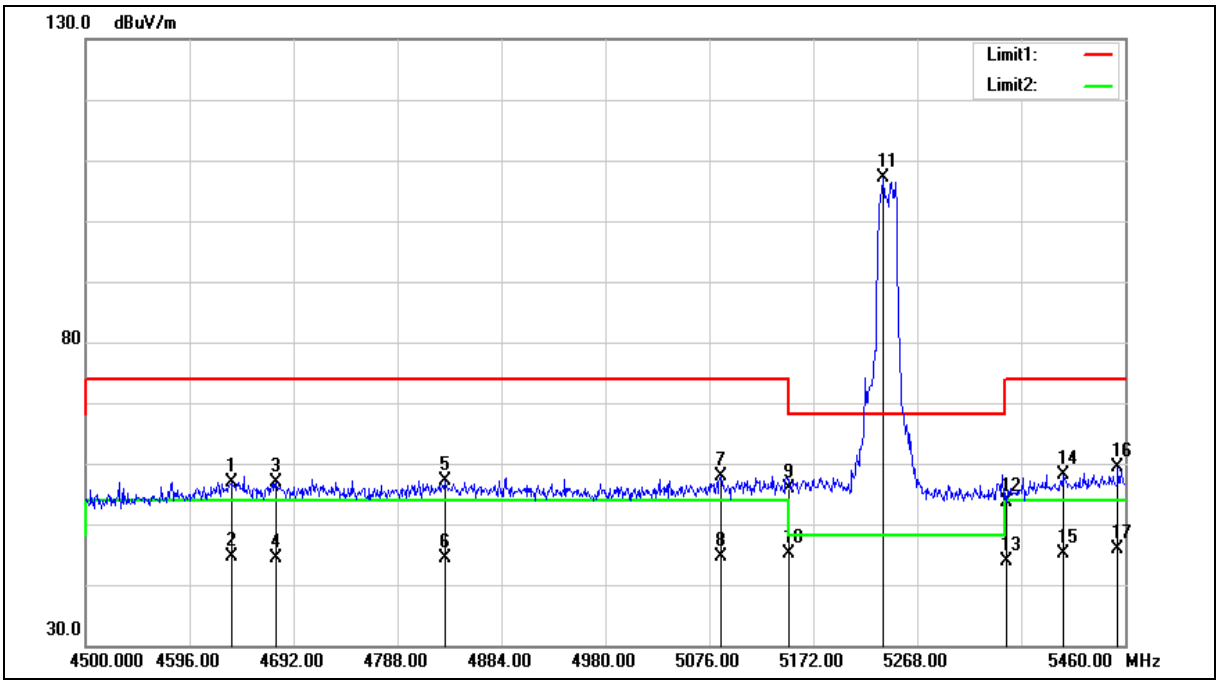
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4967.520	50.08	6.25	56.33	74.00	-17.67	peak
2	4967.520	37.61	6.25	43.86	54.00	-10.14	AVG
3	5098.080	50.41	6.61	57.02	74.00	-16.98	peak
4	5098.080	38.02	6.61	44.63	54.00	-9.37	AVG
5	5150.000	49.37	6.76	56.13	74.00	-17.87	peak
6	5150.000	38.30	6.76	45.06	54.00	-8.94	AVG
7	5204.640	97.20	6.91	104.11	--	--	peak
8	5350.000	47.37	7.35	54.72	74.00	-19.28	peak
9	5350.000	36.54	7.35	43.89	54.00	-10.11	AVG
10	5388.000	49.86	7.46	57.32	74.00	-16.68	peak
11	5388.000	37.31	7.46	44.77	54.00	-9.23	AVG
12	5442.720	51.22	7.63	58.85	74.00	-15.15	peak
13	5442.720	38.17	7.63	45.80	54.00	-8.20	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

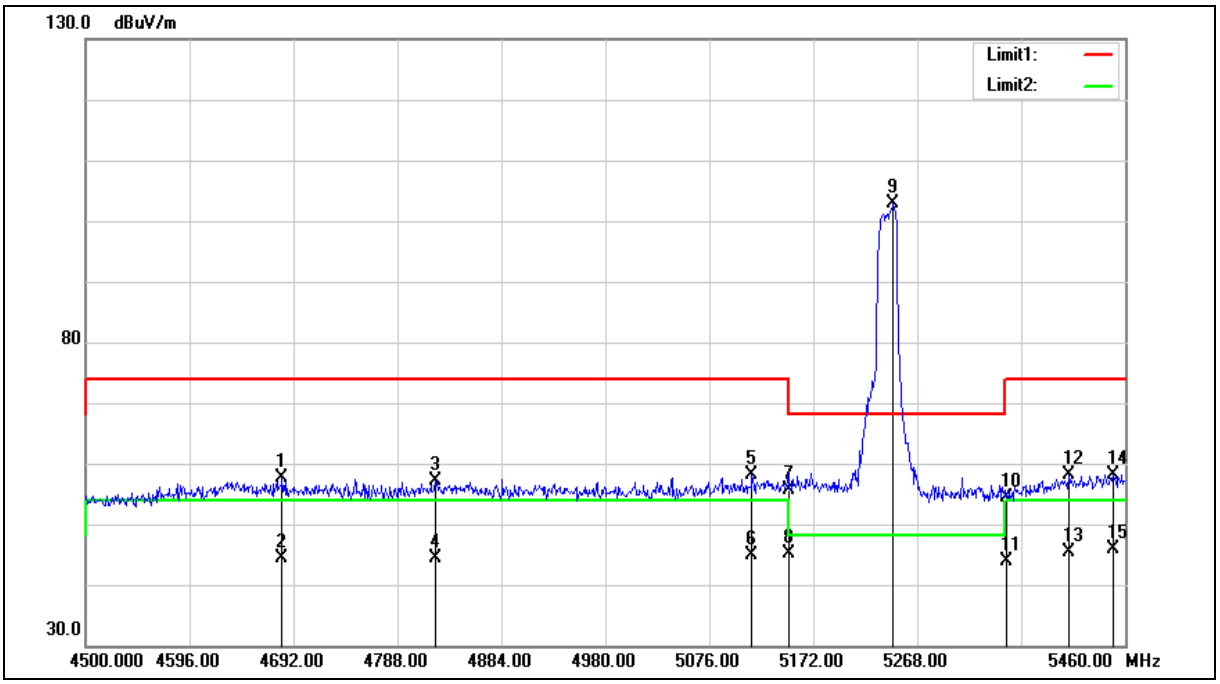
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4634.400	51.24	5.55	56.79	74.00	-17.21	peak
2	4634.400	39.16	5.55	44.71	54.00	-9.29	AVG
3	4675.680	51.19	5.63	56.82	74.00	-17.18	peak
4	4675.680	38.83	5.63	44.46	54.00	-9.54	AVG
5	4832.160	51.10	5.95	57.05	74.00	-16.95	peak
6	4832.160	38.44	5.95	44.39	54.00	-9.61	AVG
7	5086.560	51.34	6.58	57.92	74.00	-16.08	peak
8	5086.560	37.93	6.58	44.51	54.00	-9.49	AVG
9	5150.000	49.18	6.76	55.94	74.00	-18.06	peak
10	5150.000	38.29	6.76	45.05	54.00	-8.95	AVG
11	5236.320	100.09	7.01	107.10	--	--	peak
12	5350.000	46.33	7.35	53.68	74.00	-20.32	peak
13	5350.000	36.53	7.35	43.88	54.00	-10.12	AVG
14	5402.400	50.57	7.50	58.07	74.00	-15.93	peak
15	5402.400	37.70	7.50	45.20	54.00	-8.80	AVG
16	5453.280	51.63	7.66	59.29	74.00	-14.71	peak
17	5453.280	38.25	7.66	45.91	54.00	-8.09	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

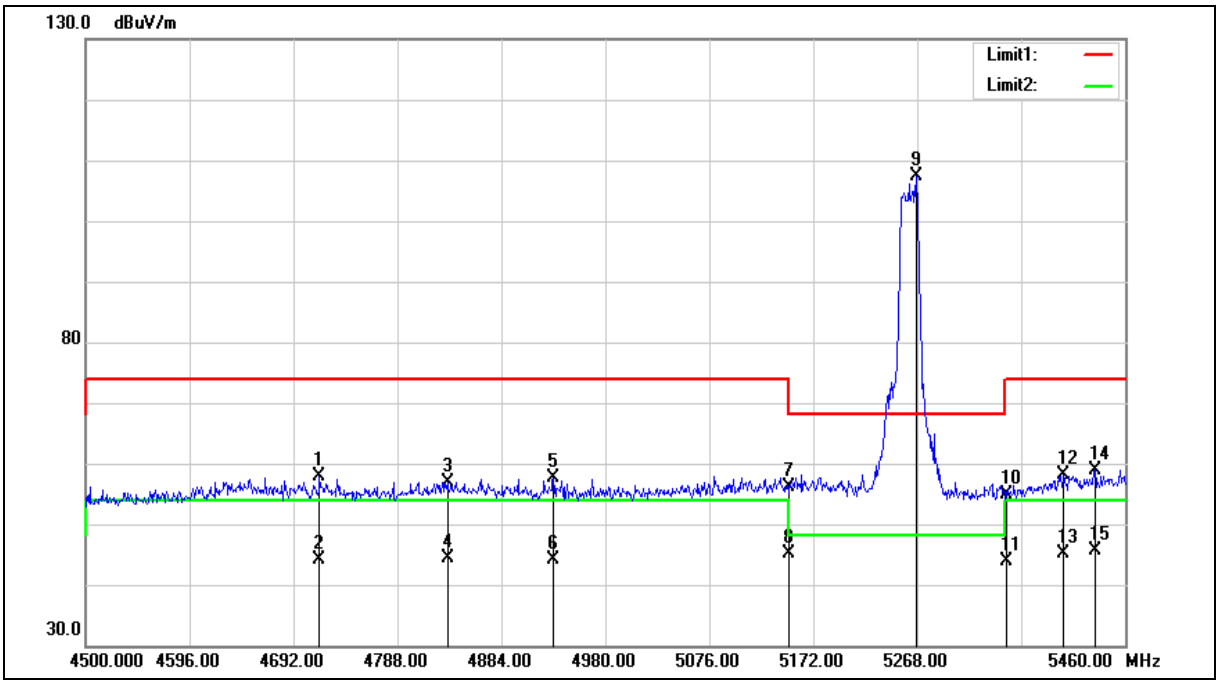
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4681.440	51.99	5.64	57.63	74.00	-16.37	peak
2	4681.440	38.64	5.64	44.28	54.00	-9.72	AVG
3	4822.560	51.14	5.93	57.07	74.00	-16.93	peak
4	4822.560	38.49	5.93	44.42	54.00	-9.58	AVG
5	5115.360	51.42	6.66	58.08	74.00	-15.92	peak
6	5115.360	38.12	6.66	44.78	54.00	-9.22	AVG
7	5150.000	48.94	6.76	55.70	74.00	-18.30	peak
8	5150.000	38.33	6.76	45.09	54.00	-8.91	AVG
9	5245.920	95.75	7.04	102.79	--	--	peak
10	5350.000	47.14	7.35	54.49	74.00	-19.51	peak
11	5350.000	36.55	7.35	43.90	54.00	-10.10	AVG
12	5408.160	50.73	7.52	58.25	74.00	-15.75	peak
13	5408.160	37.77	7.52	45.29	54.00	-8.71	AVG
14	5448.480	50.56	7.65	58.21	74.00	-15.79	peak
15	5448.480	38.24	7.65	45.89	54.00	-8.11	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5260 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5260 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

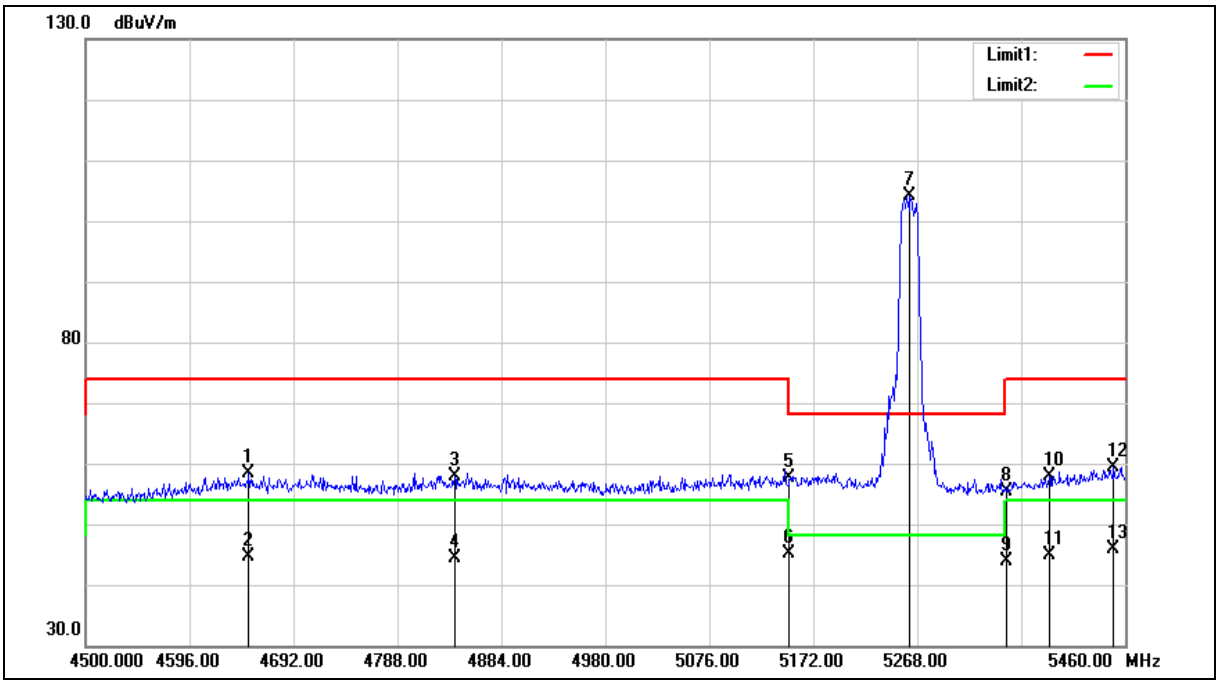
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4716.000	52.10	5.72	57.82	74.00	-16.18	peak
2	4716.000	38.39	5.72	44.11	54.00	-9.89	AVG
3	4834.080	51.03	5.96	56.99	74.00	-17.01	peak
4	4834.080	38.48	5.96	44.44	54.00	-9.56	AVG
5	4932.000	51.53	6.17	57.70	74.00	-16.30	peak
6	4932.000	37.91	6.17	44.08	54.00	-9.92	AVG
7	5150.000	49.43	6.76	56.19	74.00	-17.81	peak
8	5150.000	38.36	6.76	45.12	54.00	-8.88	AVG
9	5267.040	100.19	7.11	107.30	--	--	peak
10	5350.000	47.49	7.35	54.84	74.00	-19.16	peak
11	5350.000	36.58	7.35	43.93	54.00	-10.07	AVG
12	5403.360	50.68	7.50	58.18	74.00	-15.82	peak
13	5403.360	37.72	7.50	45.22	54.00	-8.78	AVG
14	5432.160	51.30	7.60	58.90	74.00	-15.10	peak
15	5432.160	38.03	7.60	45.63	54.00	-8.37	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5260 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5260 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

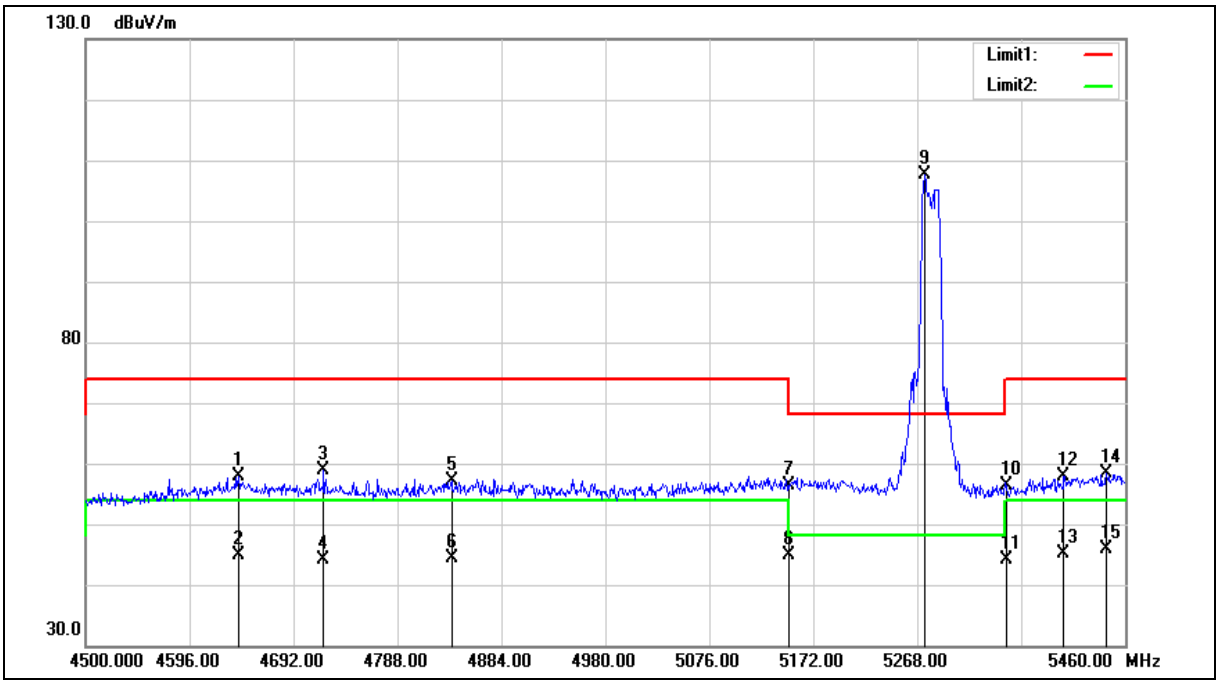
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4650.720	52.80	5.57	58.37	74.00	-15.63	peak
2	4650.720	39.05	5.57	44.62	54.00	-9.38	AVG
3	4840.800	52.02	5.98	58.00	74.00	-16.00	peak
4	4840.800	38.52	5.98	44.50	54.00	-9.50	AVG
5	5150.000	50.75	6.76	57.51	74.00	-16.49	peak
6	5150.000	38.45	6.76	45.21	54.00	-8.79	AVG
7	5261.280	97.10	7.09	104.19	--	--	peak
8	5350.000	48.08	7.35	55.43	74.00	-18.57	peak
9	5350.000	36.60	7.35	43.95	54.00	-10.05	AVG
10	5389.920	50.44	7.47	57.91	74.00	-16.09	peak
11	5389.920	37.38	7.47	44.85	54.00	-9.15	AVG
12	5449.440	51.76	7.65	59.41	74.00	-14.59	peak
13	5449.440	38.21	7.65	45.86	54.00	-8.14	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5280 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5280 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

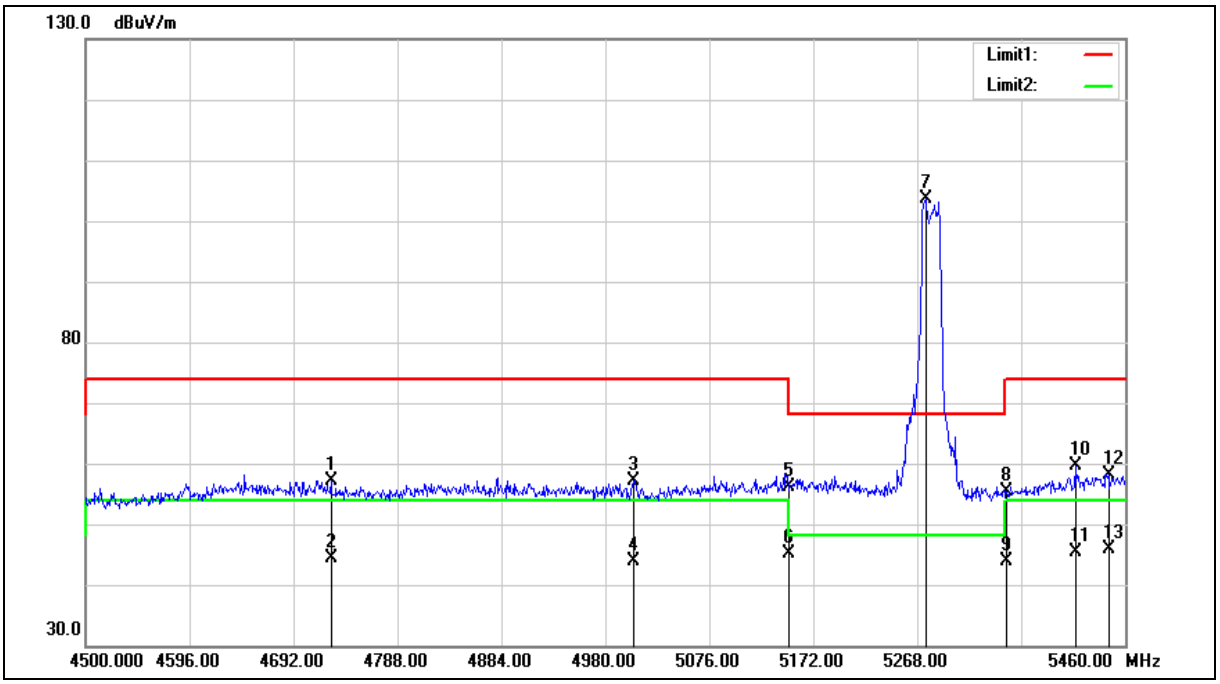
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4641.120	52.31	5.56	57.87	74.00	-16.13	peak
2	4641.120	39.36	5.56	44.92	54.00	-9.08	AVG
3	4719.840	53.11	5.72	58.83	74.00	-15.17	peak
4	4719.840	38.41	5.72	44.13	54.00	-9.87	AVG
5	4837.920	51.09	5.97	57.06	74.00	-16.94	peak
6	4837.920	38.43	5.97	44.40	54.00	-9.60	AVG
7	5150.000	49.69	6.76	56.45	74.00	-17.55	peak
8	5150.000	38.23	6.76	44.99	54.00	-9.01	AVG
9	5274.720	100.43	7.13	107.56	--	--	peak
10	5350.000	49.01	7.35	56.36	74.00	-17.64	peak
11	5350.000	36.66	7.35	44.01	54.00	-9.99	AVG
12	5403.360	50.47	7.50	57.97	74.00	-16.03	peak
13	5403.360	37.73	7.50	45.23	54.00	-8.77	AVG
14	5442.720	50.73	7.63	58.36	74.00	-15.64	peak
15	5442.720	38.23	7.63	45.86	54.00	-8.14	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5280 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5280 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

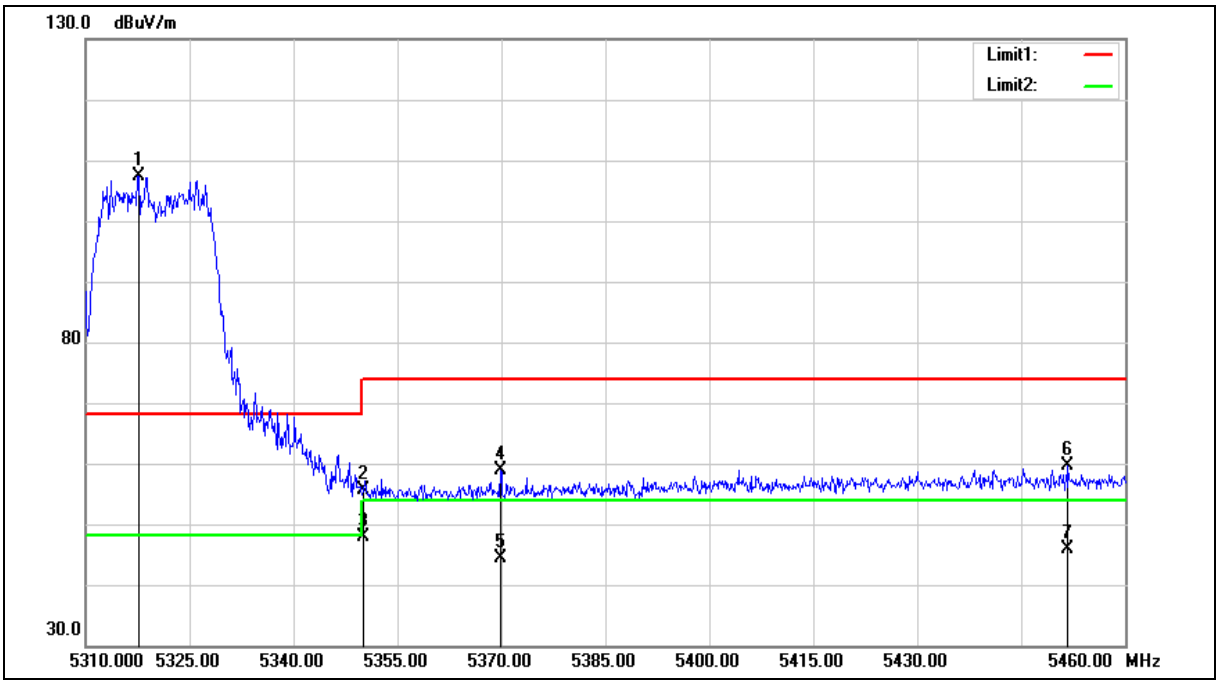
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4726.560	51.51	5.74	57.25	74.00	-16.75	peak
2	4726.560	38.52	5.74	44.26	54.00	-9.74	AVG
3	5005.920	50.81	6.33	57.14	74.00	-16.86	peak
4	5005.920	37.62	6.33	43.95	54.00	-10.05	AVG
5	5150.000	49.30	6.76	56.06	74.00	-17.94	peak
6	5150.000	38.36	6.76	45.12	54.00	-8.88	AVG
7	5275.680	96.40	7.14	103.54	--	--	peak
8	5350.000	48.15	7.35	55.50	74.00	-18.50	peak
9	5350.000	36.52	7.35	43.87	54.00	-10.13	AVG
10	5413.920	52.09	7.53	59.62	74.00	-14.38	peak
11	5413.920	37.85	7.53	45.38	54.00	-8.62	AVG
12	5444.640	50.60	7.63	58.23	74.00	-15.77	peak
13	5444.640	38.27	7.63	45.90	54.00	-8.10	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5320 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5320 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

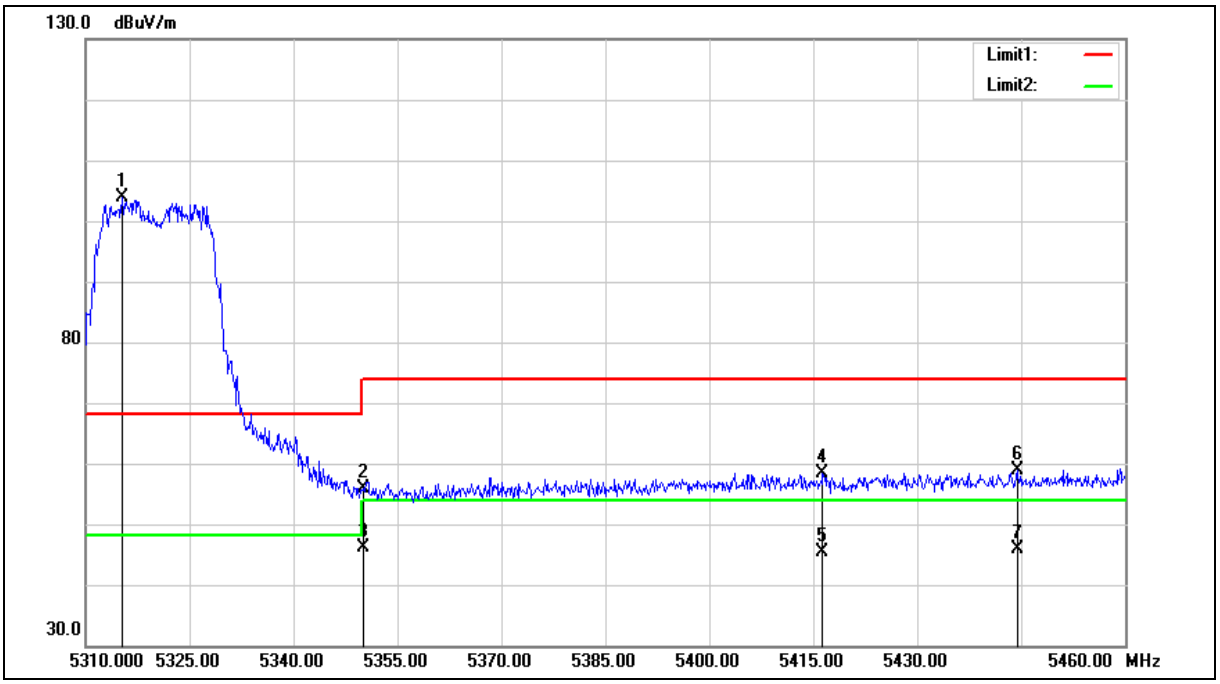
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5317.650	100.16	7.26	107.42	--	--	peak
2	5350.000	48.28	7.35	55.63	74.00	-18.37	peak
3	5350.000	40.51	7.35	47.86	54.00	-6.14	AVG
4	5369.850	51.40	7.41	58.81	74.00	-15.19	peak
5	5369.850	37.05	7.41	44.46	54.00	-9.54	AVG
6	5451.750	51.92	7.66	59.58	74.00	-14.42	peak
7	5451.750	38.24	7.66	45.90	54.00	-8.10	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5320 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5320 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

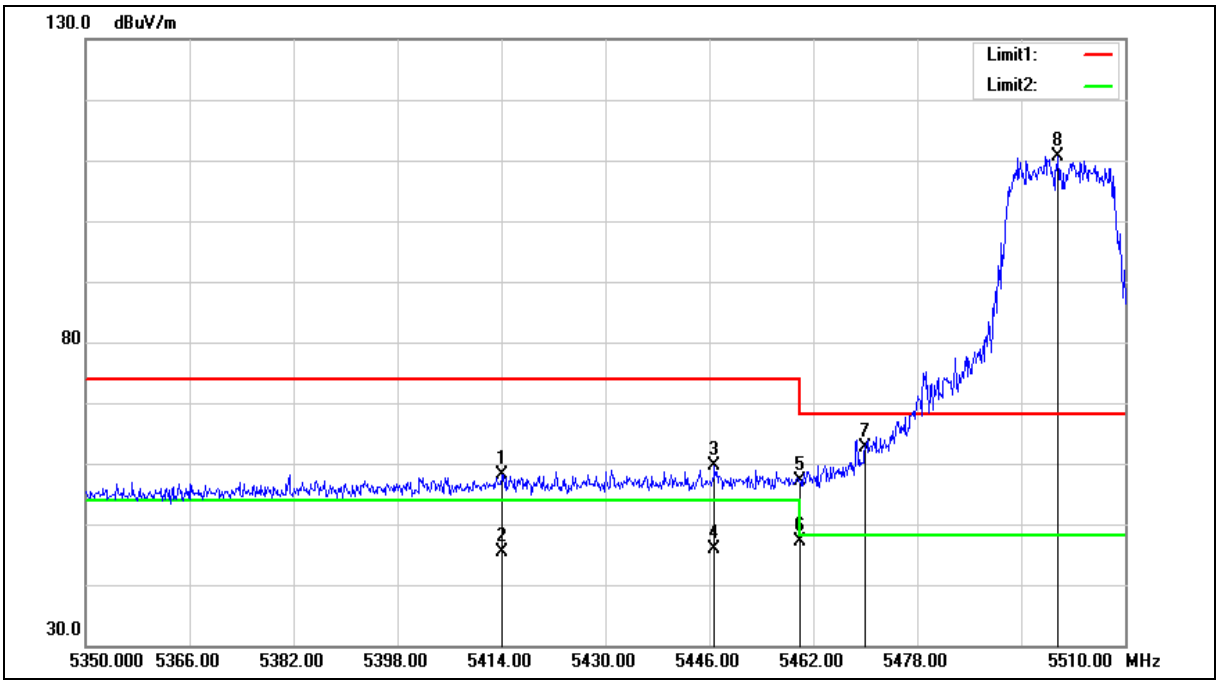
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5315.250	96.51	7.26	103.77	--	--	peak
2	5350.000	48.41	7.35	55.76	74.00	-18.24	peak
3	5350.000	38.73	7.35	46.08	54.00	-7.92	AVG
4	5416.350	50.81	7.55	58.36	74.00	-15.64	peak
5	5416.350	37.84	7.55	45.39	54.00	-8.61	AVG
6	5444.400	51.34	7.63	58.97	74.00	-15.03	peak
7	5444.400	38.22	7.63	45.85	54.00	-8.15	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

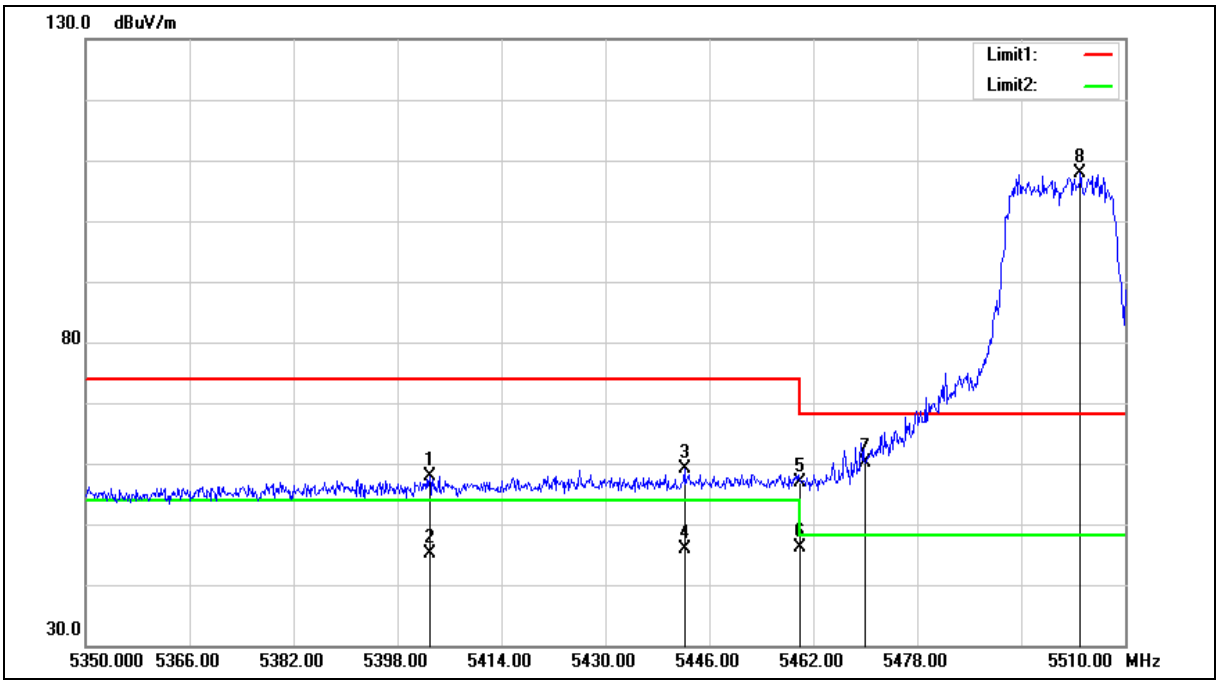
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5414.160	50.65	7.54	58.19	74.00	-15.81	peak
2	5414.160	37.86	7.54	45.40	54.00	-8.60	AVG
3	5446.800	52.02	7.65	59.67	74.00	-14.33	peak
4	5446.800	38.27	7.65	45.92	54.00	-8.08	AVG
5	5460.000	49.43	7.68	57.11	74.00	-16.89	peak
6	5460.000	39.44	7.68	47.12	54.00	-6.88	AVG
7	5470.000	54.87	7.71	62.58	68.20	-5.62	peak
8	5499.600	102.86	7.80	110.66	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

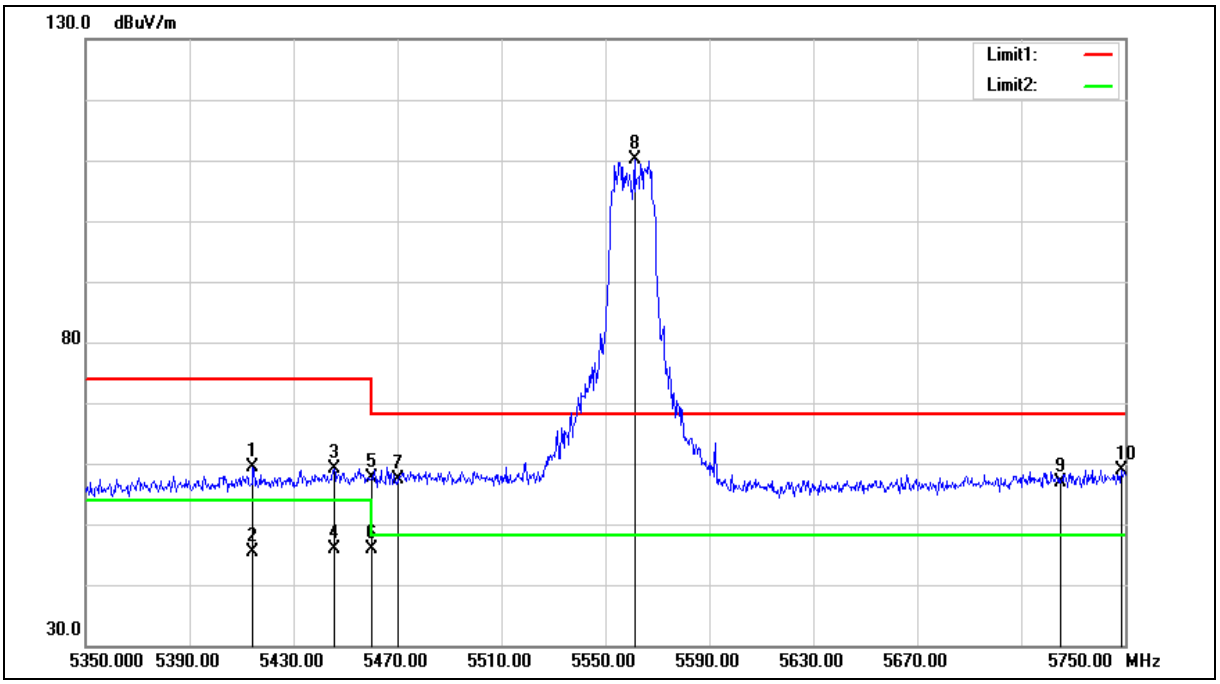
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5402.960	50.37	7.50	57.87	74.00	-16.13	peak
2	5402.960	37.69	7.50	45.19	54.00	-8.81	AVG
3	5442.160	51.47	7.63	59.10	74.00	-14.90	peak
4	5442.160	38.24	7.63	45.87	54.00	-8.13	AVG
5	5460.000	49.23	7.68	56.91	74.00	-17.09	peak
6	5460.000	38.56	7.68	46.24	54.00	-7.76	AVG
7	5470.000	52.45	7.71	60.16	68.20	-8.04	peak
8	5503.120	100.14	7.80	107.94	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5560 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5560 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

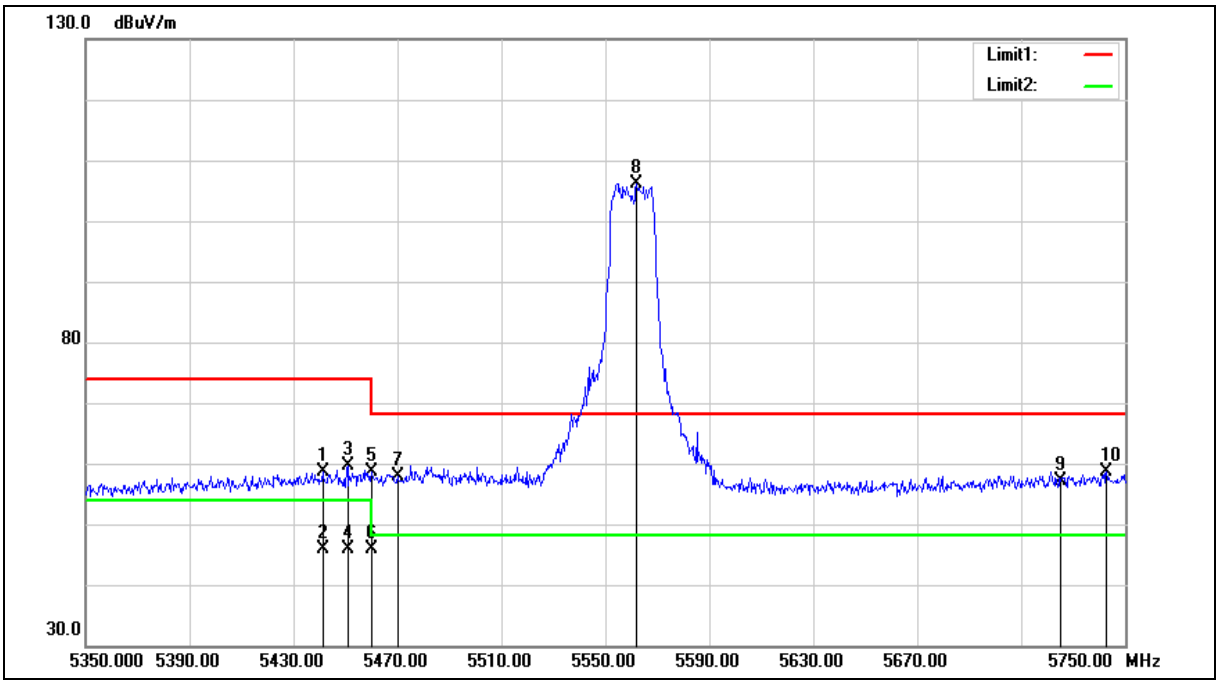
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5414.400	51.78	7.54	59.32	74.00	-14.68	peak
2	5414.400	37.81	7.54	45.35	54.00	-8.65	AVG
3	5445.600	51.48	7.65	59.13	74.00	-14.87	peak
4	5445.600	38.25	7.65	45.90	54.00	-8.10	AVG
5	5460.000	49.85	7.68	57.53	74.00	-16.47	peak
6	5460.000	38.27	7.68	45.95	54.00	-8.05	AVG
7	5470.000	49.71	7.71	57.42	68.20	-10.78	peak
8	5561.200	102.23	7.89	110.12	--	--	peak
9	5725.000	48.85	8.14	56.99	68.20	-11.21	peak
10	5748.400	50.83	8.17	59.00	68.20	-9.20	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5560 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5560 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

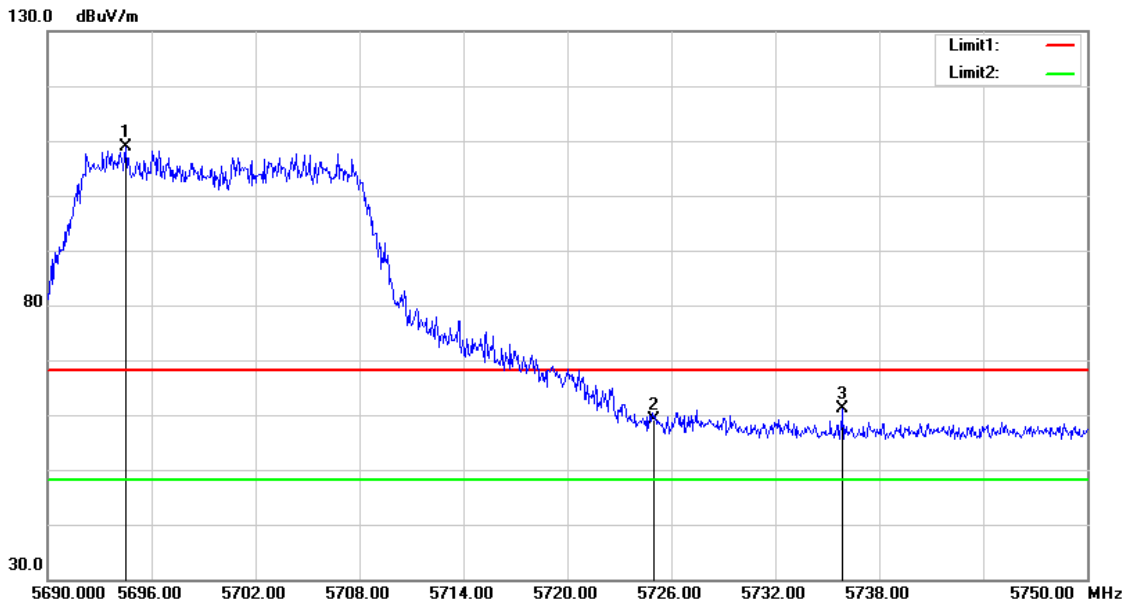
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5441.200	51.11	7.63	58.74	74.00	-15.26	peak
2	5441.200	38.13	7.63	45.76	54.00	-8.24	AVG
3	5450.800	51.94	7.66	59.60	74.00	-14.40	peak
4	5450.800	38.16	7.66	45.82	54.00	-8.18	AVG
5	5460.000	50.91	7.68	58.59	74.00	-15.41	peak
6	5460.000	38.11	7.68	45.79	54.00	-8.21	AVG
7	5470.000	50.05	7.71	57.76	68.20	-10.44	peak
8	5562.000	98.35	7.89	106.24	--	--	peak
9	5725.000	49.09	8.14	57.23	68.20	-10.97	peak
10	5742.800	50.46	8.16	58.62	68.20	-9.58	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5700 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



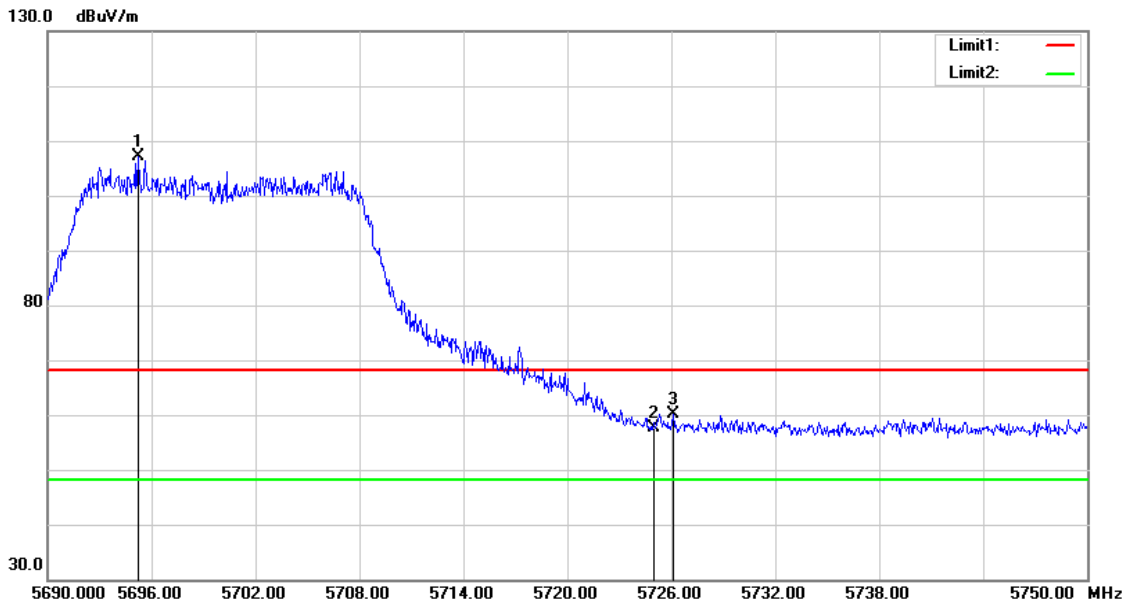
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5694.500	100.68	8.09	108.77	--	--	peak
2	5725.000	50.99	8.14	59.13	68.20	-9.07	peak
3	5735.900	52.93	8.15	61.08	68.20	-7.12	peak

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5700 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



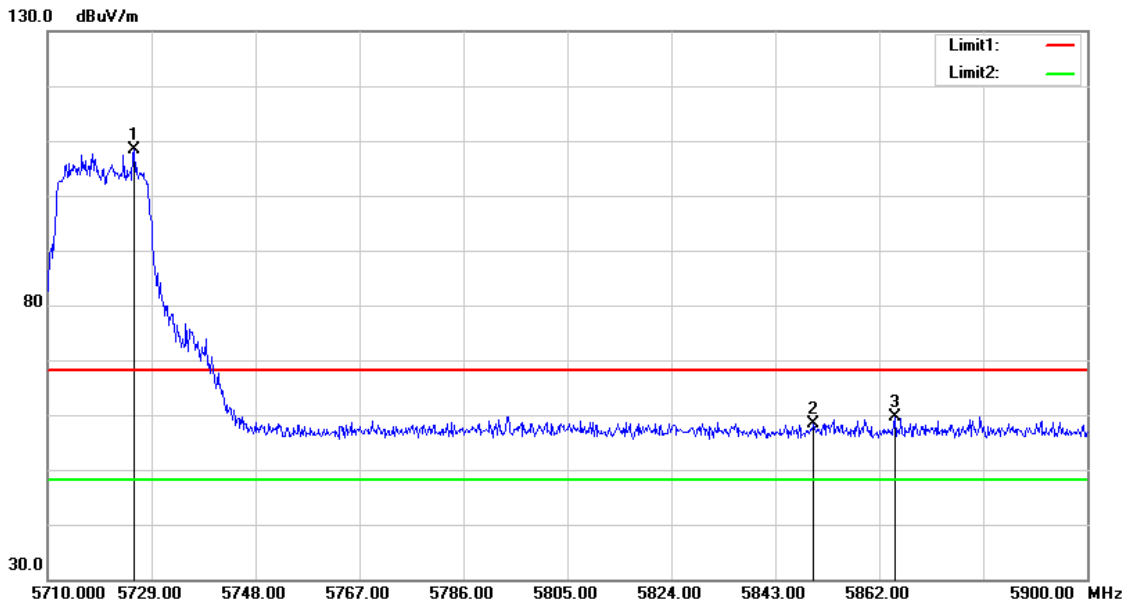
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5695.220	98.95	8.10	107.05	--	--	peak
2	5725.000	49.48	8.14	57.62	68.20	-10.58	peak
3	5726.120	51.96	8.14	60.10	68.20	-8.10	peak

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5720 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



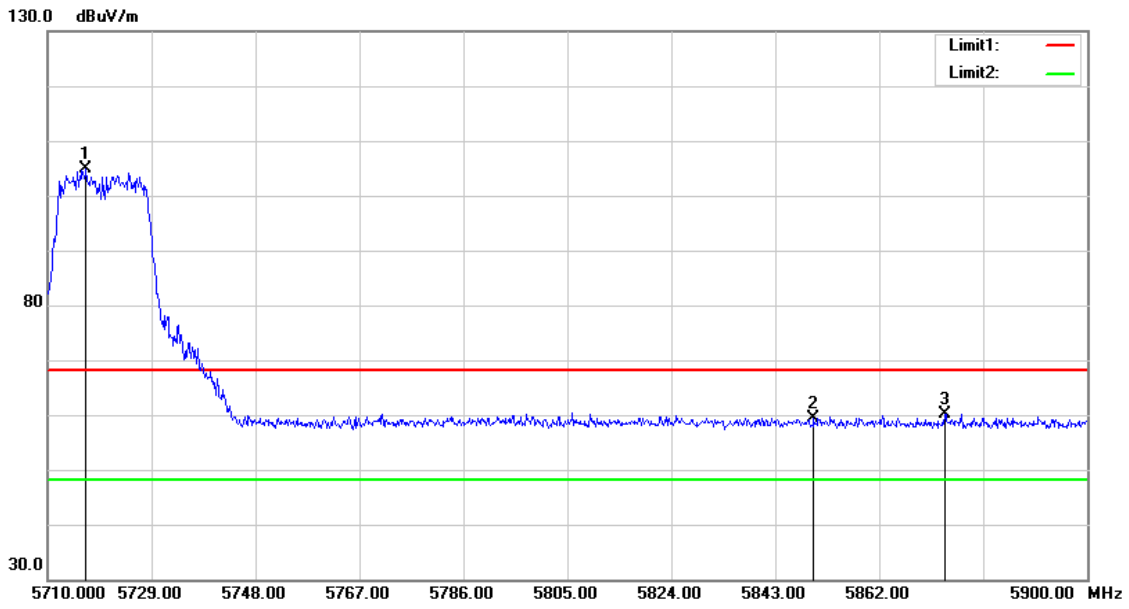
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.770	100.25	8.14	108.39	--	--	peak
2	5850.000	49.96	8.32	58.28	68.20	-9.92	peak
3	5864.850	51.29	8.34	59.63	68.20	-8.57	peak

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5720 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



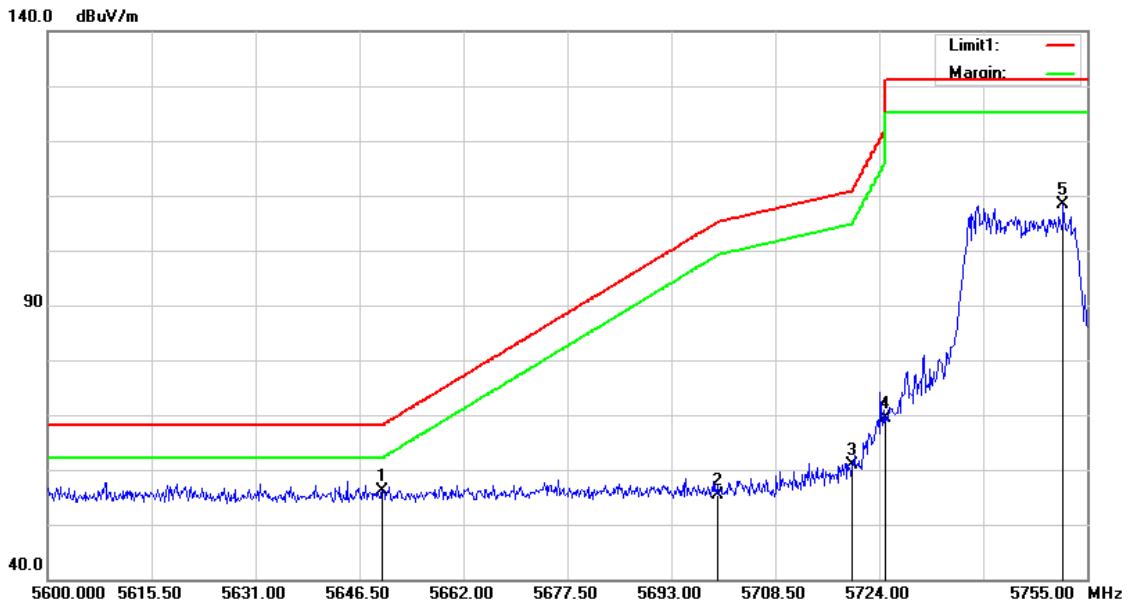
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5717.030	96.74	8.13	104.87	--	--	peak
2	5850.000	51.09	8.32	59.41	68.20	-8.79	peak
3	5873.970	51.82	8.35	60.17	68.20	-8.03	peak

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



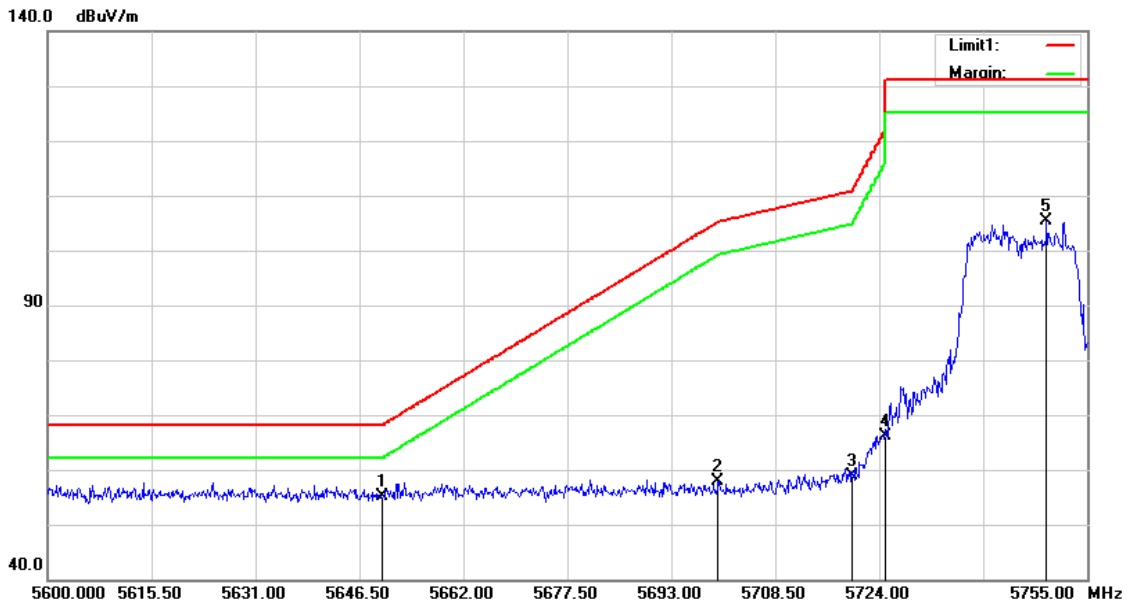
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	48.04	8.03	56.07	68.20	-12.13	peak
2	5700.000	47.24	8.10	55.34	105.20	-49.86	peak
3	5720.000	52.71	8.13	60.84	110.80	-49.96	peak
4	5725.000	61.27	8.14	69.41	122.20	-52.79	peak
5	5751.435	100.08	8.18	108.26	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



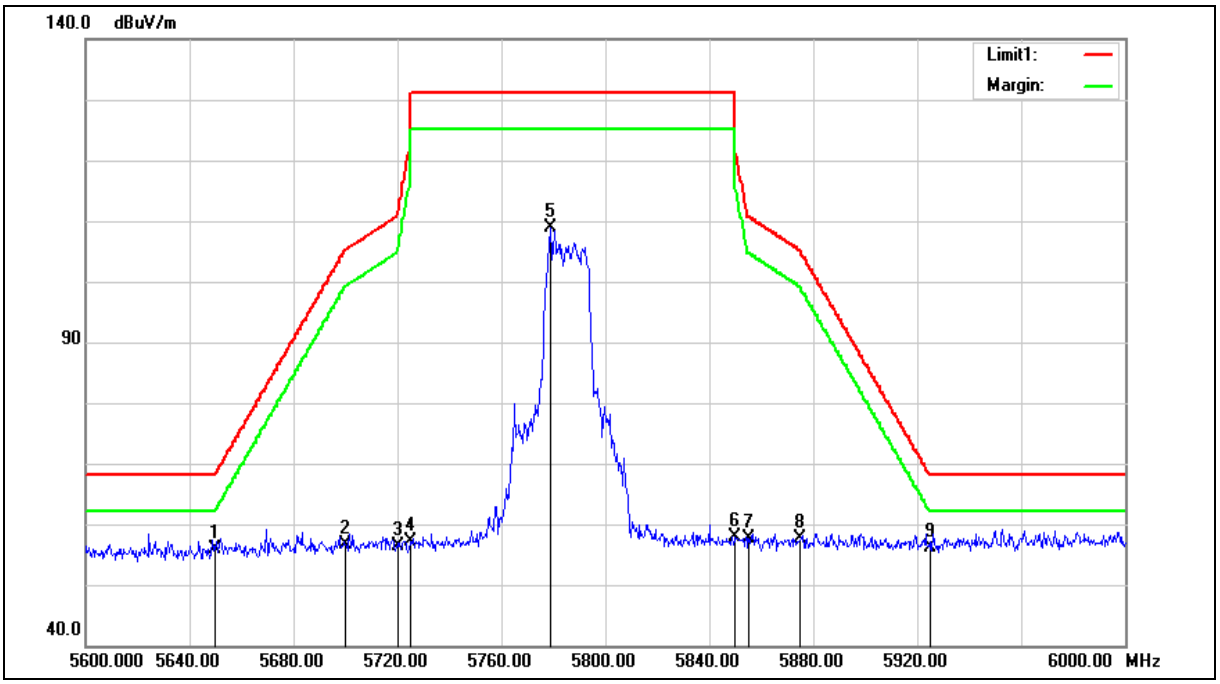
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.20	8.03	55.23	68.20	-12.97	peak
2	5700.000	49.73	8.10	57.83	105.20	-47.37	peak
3	5720.000	50.76	8.13	58.89	110.80	-51.91	peak
4	5725.000	58.07	8.14	66.21	122.20	-55.99	peak
5	5748.955	97.18	8.17	105.35	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

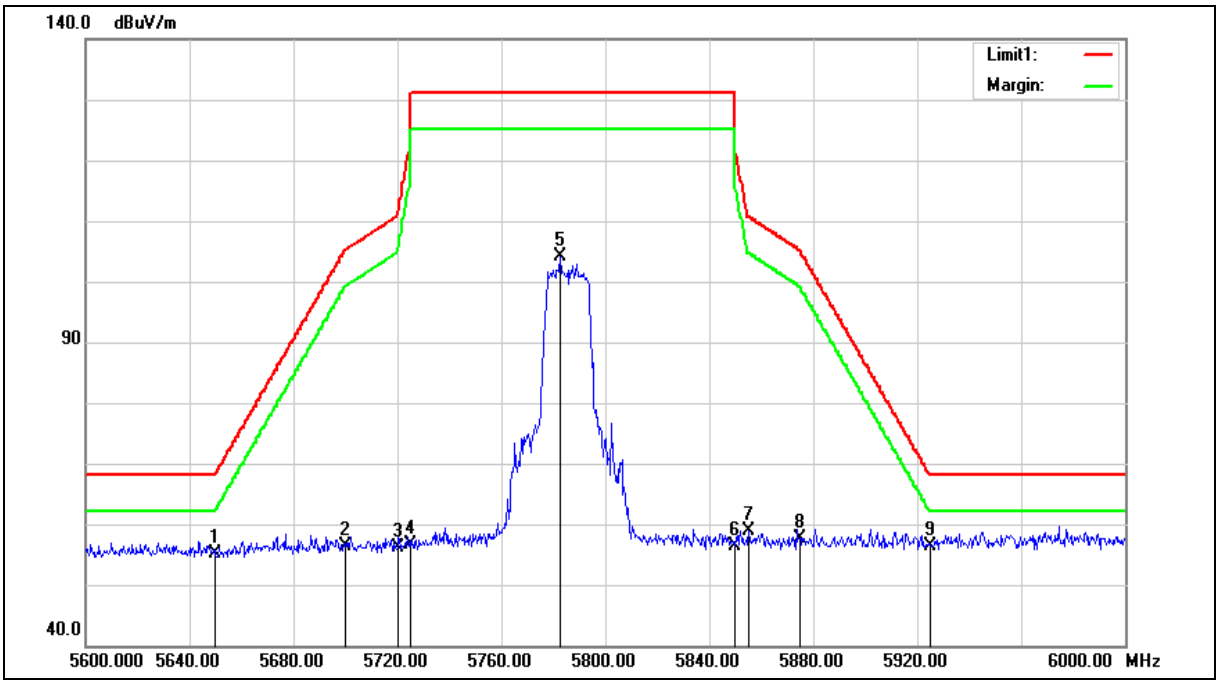
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.94	8.03	55.97	68.20	-12.23	peak
2	5700.000	48.45	8.10	56.55	105.20	-48.65	peak
3	5720.000	48.16	8.13	56.29	110.80	-54.51	peak
4	5725.000	49.06	8.14	57.20	122.20	-65.00	peak
5	5778.800	100.66	8.22	108.88	--	--	peak
6	5850.000	49.46	8.32	57.78	122.20	-64.42	peak
7	5855.000	49.18	8.33	57.51	110.80	-53.29	peak
8	5875.000	49.32	8.36	57.68	105.20	-47.52	peak
9	5925.000	47.60	8.44	56.04	68.20	-12.16	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

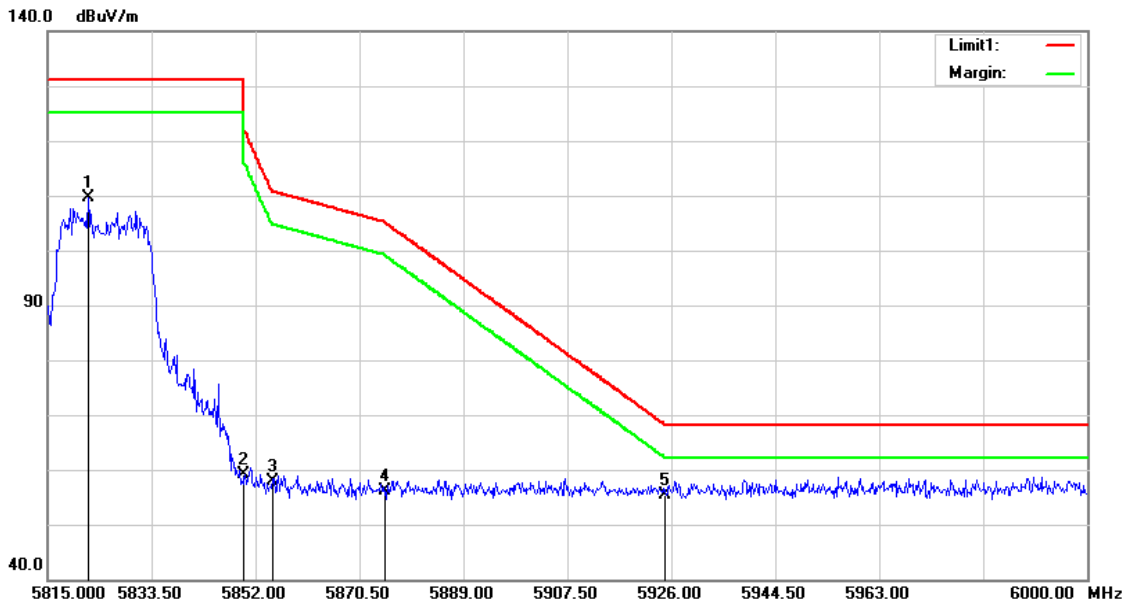
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.07	8.03	55.10	68.20	-13.10	peak
2	5700.000	48.18	8.10	56.28	105.20	-48.92	peak
3	5720.000	48.00	8.13	56.13	110.80	-54.67	peak
4	5725.000	48.49	8.14	56.63	122.20	-65.57	peak
5	5782.400	95.90	8.22	104.12	--	--	peak
6	5850.000	48.00	8.32	56.32	122.20	-65.88	peak
7	5855.000	50.50	8.33	58.83	110.80	-51.97	peak
8	5875.000	49.35	8.36	57.71	105.20	-47.49	peak
9	5925.000	47.89	8.44	56.33	68.20	-11.87	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



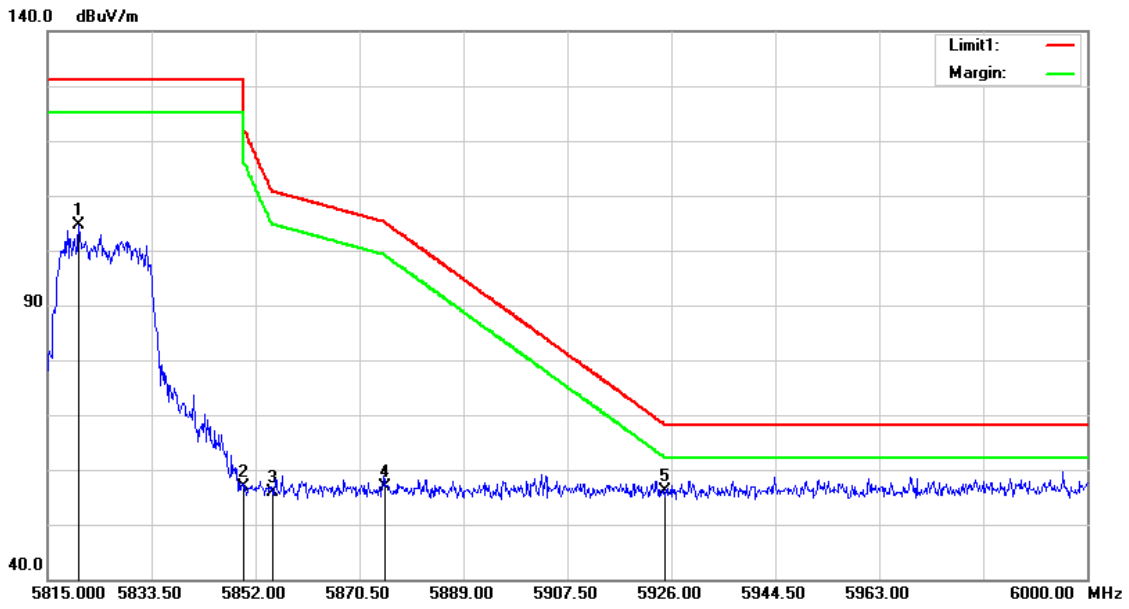
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5822.215	101.36	8.28	109.64	--	--	peak
2	5850.000	50.73	8.32	59.05	122.20	-63.15	peak
3	5855.000	49.54	8.33	57.87	110.80	-52.93	peak
4	5875.000	47.65	8.36	56.01	105.20	-49.19	peak
5	5925.000	46.98	8.44	55.42	68.20	-12.78	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



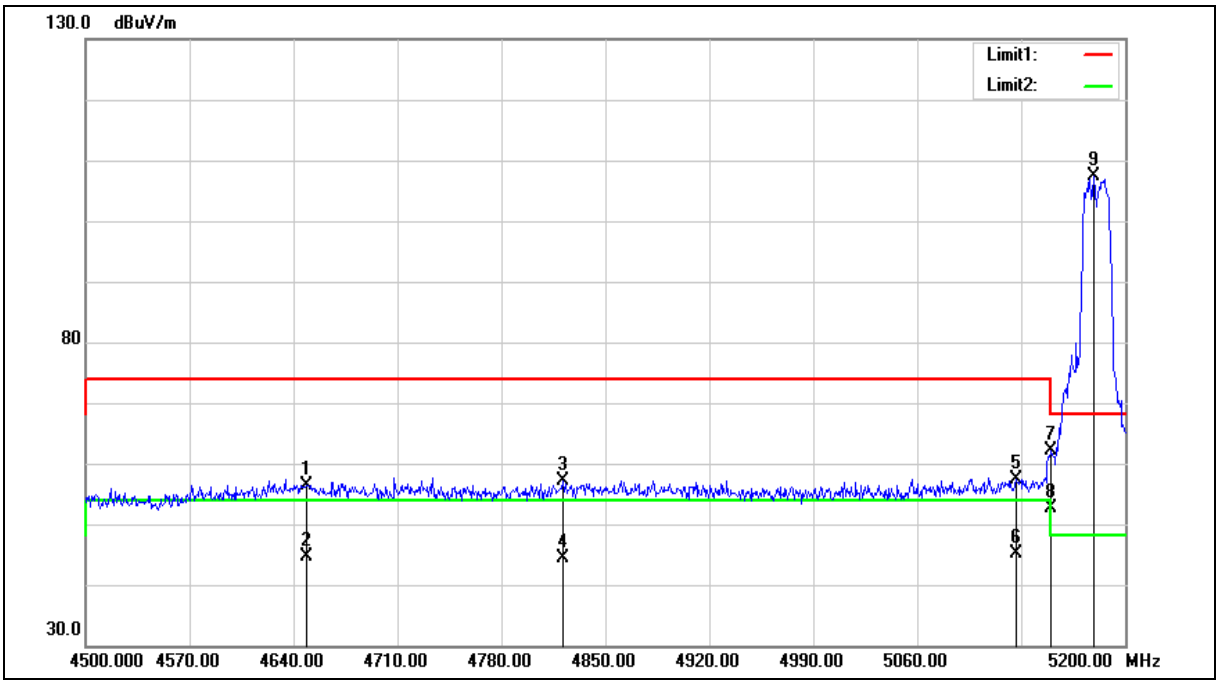
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5820.550	96.41	8.28	104.69	--	--	peak
2	5850.000	48.59	8.32	56.91	122.20	-65.29	peak
3	5855.000	47.61	8.33	55.94	110.80	-54.86	peak
4	5875.000	48.48	8.36	56.84	105.20	-48.36	peak
5	5925.000	47.79	8.44	56.23	68.20	-11.97	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

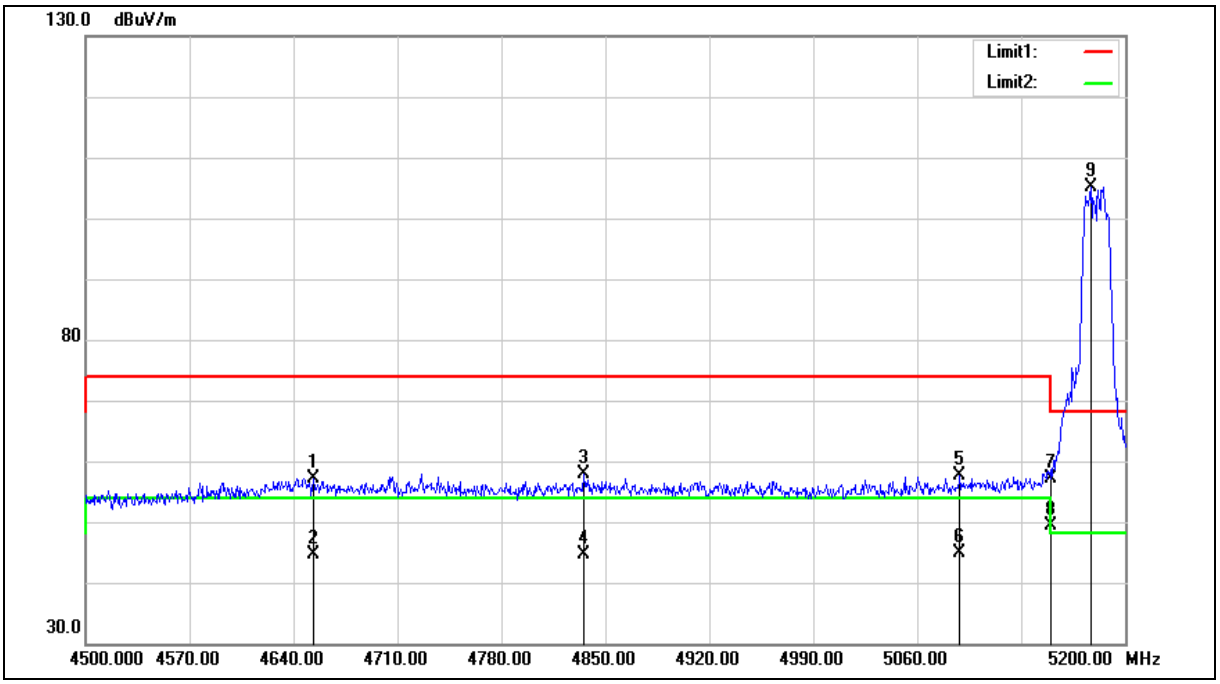
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4648.400	50.83	5.57	56.40	74.00	-17.60	peak
2	4648.400	39.15	5.57	44.72	54.00	-9.28	AVG
3	4821.300	51.11	5.93	57.04	74.00	-16.96	peak
4	4821.300	38.54	5.93	44.47	54.00	-9.53	AVG
5	5126.500	50.61	6.69	57.30	74.00	-16.70	peak
6	5126.500	38.32	6.69	45.01	54.00	-8.99	AVG
7	5150.000	55.26	6.76	62.02	74.00	-11.98	peak
8	5150.000	45.76	6.76	52.52	54.00	-1.48	AVG
9	5179.000	100.42	6.84	107.26	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

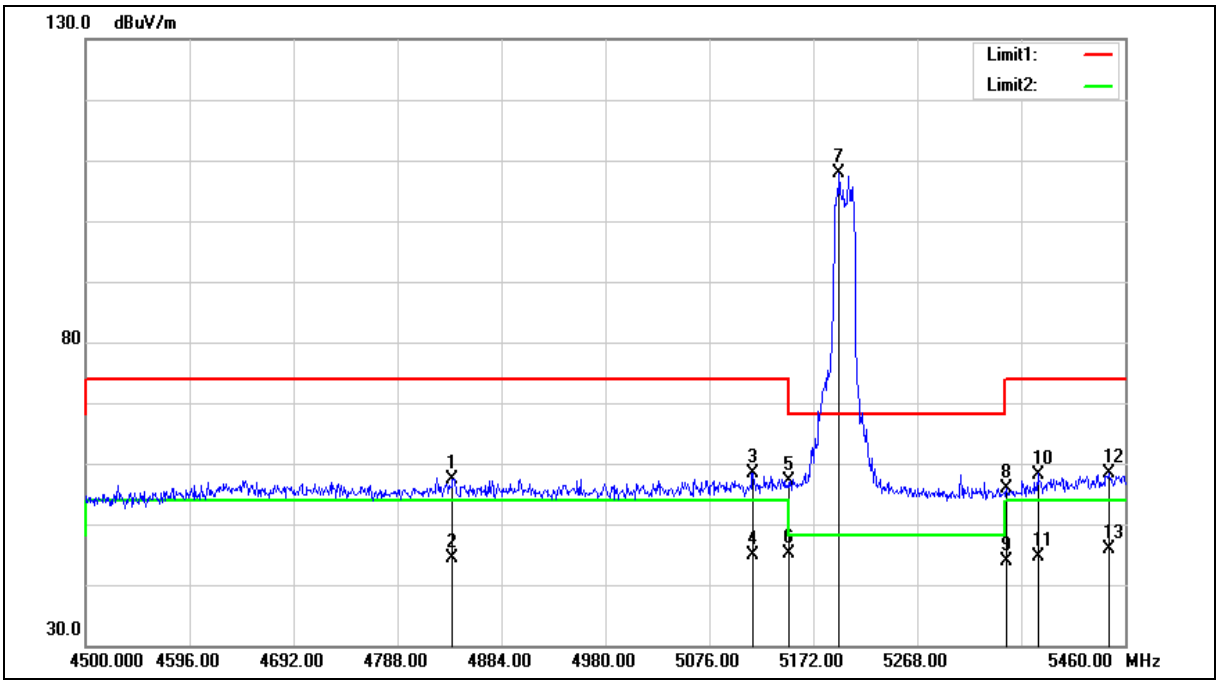
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4653.300	51.65	5.58	57.23	74.00	-16.77	peak
2	4653.300	38.97	5.58	44.55	54.00	-9.45	AVG
3	4835.300	51.87	5.97	57.84	74.00	-16.16	peak
4	4835.300	38.54	5.97	44.51	54.00	-9.49	AVG
5	5088.700	50.95	6.58	57.53	74.00	-16.47	peak
6	5088.700	38.25	6.58	44.83	54.00	-9.17	AVG
7	5150.000	50.34	6.76	57.10	74.00	-16.90	peak
8	5150.000	42.58	6.76	49.34	54.00	-4.66	AVG
9	5176.900	98.39	6.84	105.23	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

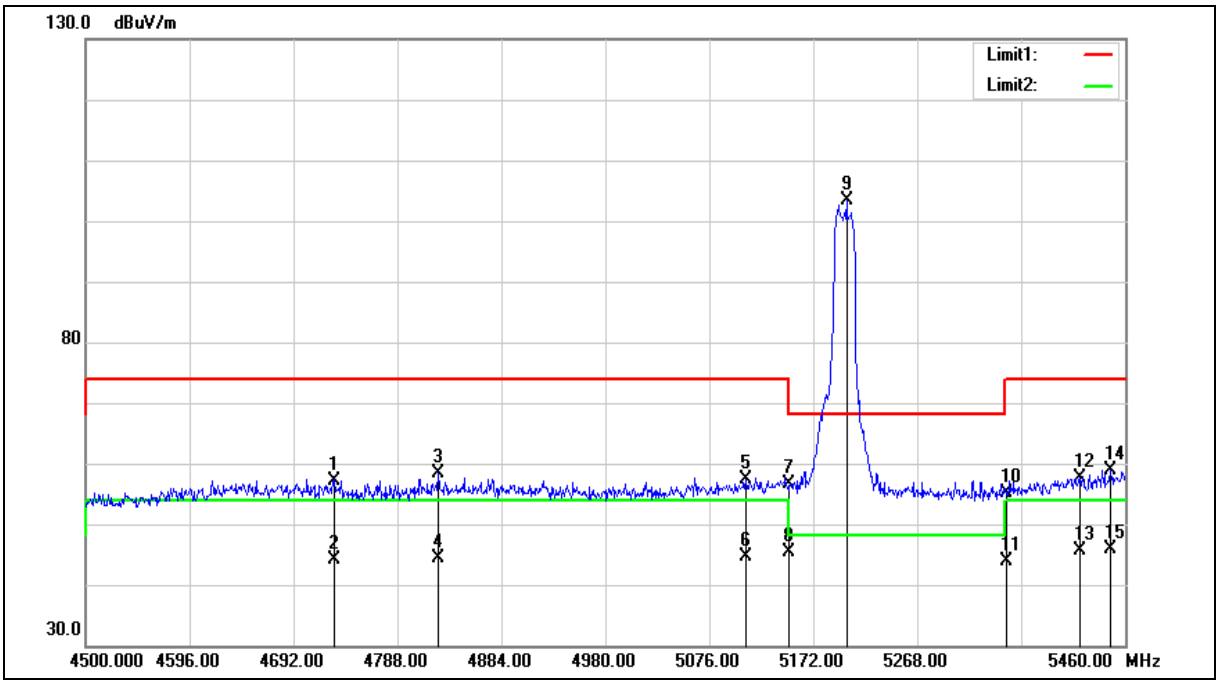
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4838.880	51.44	5.98	57.42	74.00	-16.58	peak
2	4838.880	38.45	5.98	44.43	54.00	-9.57	AVG
3	5116.320	51.83	6.66	58.49	74.00	-15.51	peak
4	5116.320	38.18	6.66	44.84	54.00	-9.16	AVG
5	5150.000	50.35	6.76	57.11	74.00	-16.89	peak
6	5150.000	38.44	6.76	45.20	54.00	-8.80	AVG
7	5196.000	101.05	6.90	107.95	--	--	peak
8	5350.000	48.51	7.35	55.86	74.00	-18.14	peak
9	5350.000	36.57	7.35	43.92	54.00	-10.08	AVG
10	5379.360	50.81	7.44	58.25	74.00	-15.75	peak
11	5379.360	37.20	7.44	44.64	54.00	-9.36	AVG
12	5444.640	50.83	7.63	58.46	74.00	-15.54	peak
13	5444.640	38.26	7.63	45.89	54.00	-8.11	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

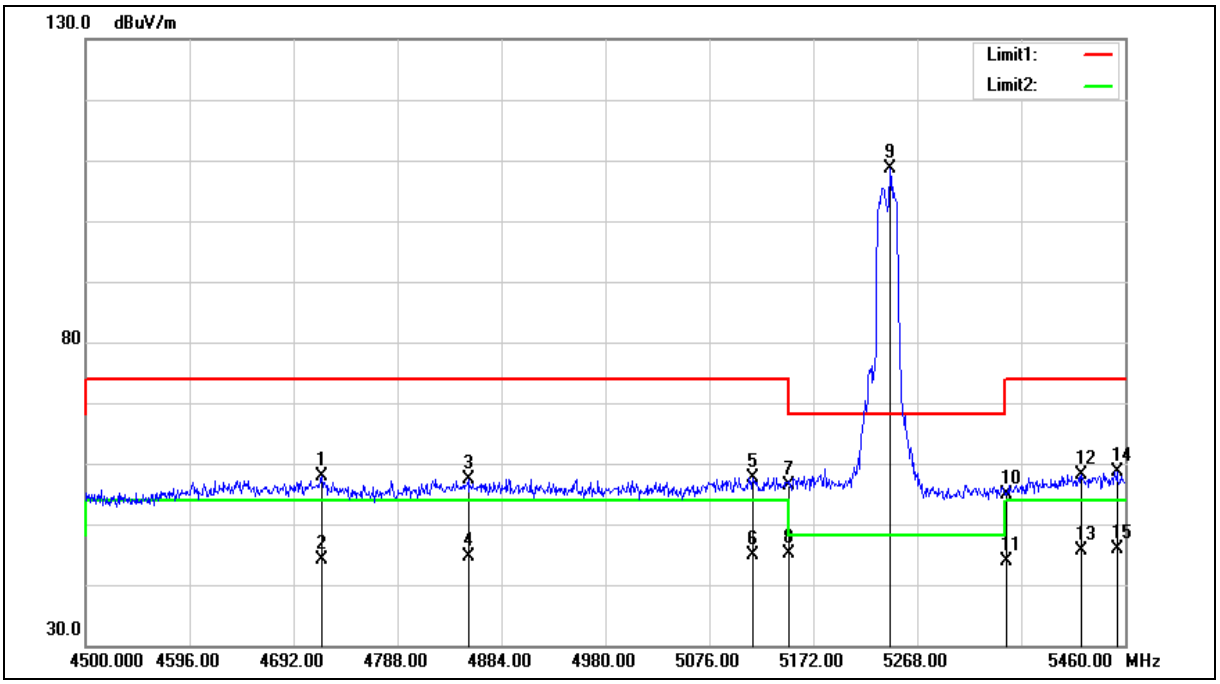
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4729.440	51.52	5.73	57.25	74.00	-16.75	peak
2	4729.440	38.49	5.73	44.22	54.00	-9.78	AVG
3	4825.440	52.43	5.94	58.37	74.00	-15.63	peak
4	4825.440	38.52	5.94	44.46	54.00	-9.54	AVG
5	5109.600	50.76	6.64	57.40	74.00	-16.60	peak
6	5109.600	38.10	6.64	44.74	54.00	-9.26	AVG
7	5150.000	49.88	6.76	56.64	74.00	-17.36	peak
8	5150.000	38.53	6.76	45.29	54.00	-8.71	AVG
9	5202.720	96.35	6.91	103.26	--	--	peak
10	5350.000	47.87	7.35	55.22	74.00	-18.78	peak
11	5350.000	36.58	7.35	43.93	54.00	-10.07	AVG
12	5417.760	50.03	7.56	57.59	74.00	-16.41	peak
13	5417.760	37.99	7.56	45.55	54.00	-8.45	AVG
14	5446.560	51.33	7.65	58.98	74.00	-15.02	peak
15	5446.560	38.21	7.65	45.86	54.00	-8.14	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

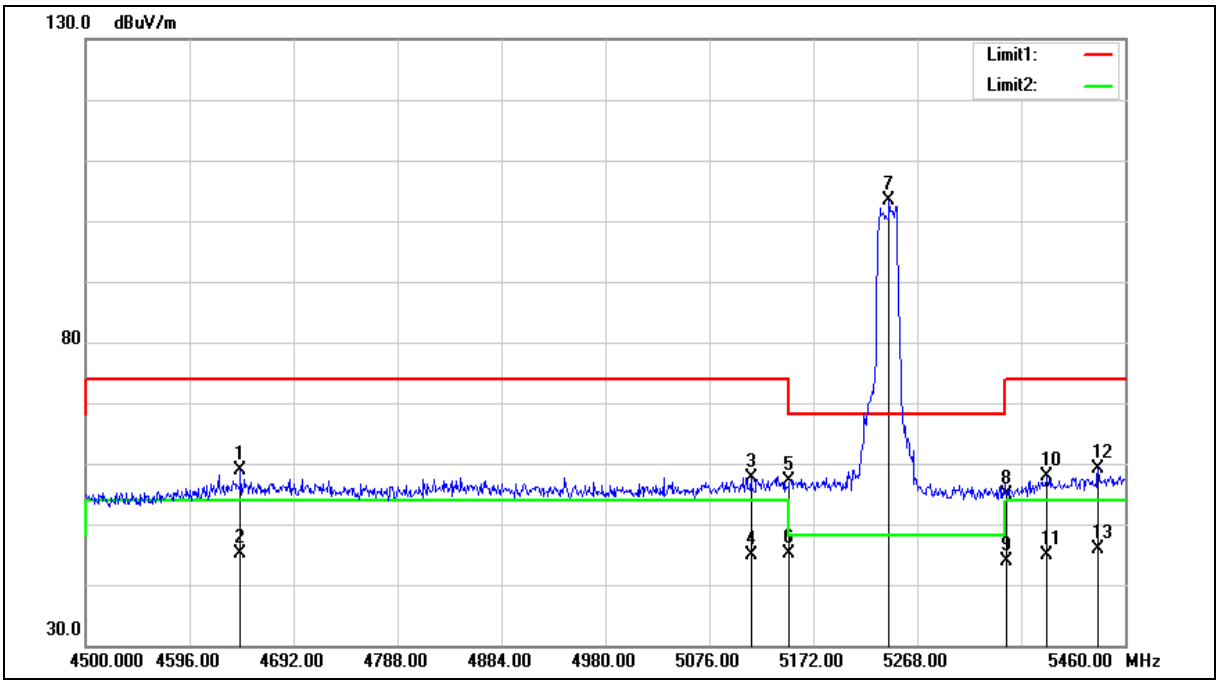
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4717.920	52.22	5.72	57.94	74.00	-16.06	peak
2	4717.920	38.48	5.72	44.20	54.00	-9.80	AVG
3	4853.280	51.44	6.01	57.45	74.00	-16.55	peak
4	4853.280	38.50	6.01	44.51	54.00	-9.49	AVG
5	5116.320	51.03	6.66	57.69	74.00	-16.31	peak
6	5116.320	38.23	6.66	44.89	54.00	-9.11	AVG
7	5150.000	49.73	6.76	56.49	74.00	-17.51	peak
8	5150.000	38.42	6.76	45.18	54.00	-8.82	AVG
9	5243.040	101.60	7.03	108.63	--	--	peak
10	5350.000	47.41	7.35	54.76	74.00	-19.24	peak
11	5350.000	36.62	7.35	43.97	54.00	-10.03	AVG
12	5419.680	50.64	7.57	58.21	74.00	-15.79	peak
13	5419.680	37.97	7.57	45.54	54.00	-8.46	AVG
14	5452.320	51.03	7.66	58.69	74.00	-15.31	peak
15	5452.320	38.27	7.66	45.93	54.00	-8.07	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

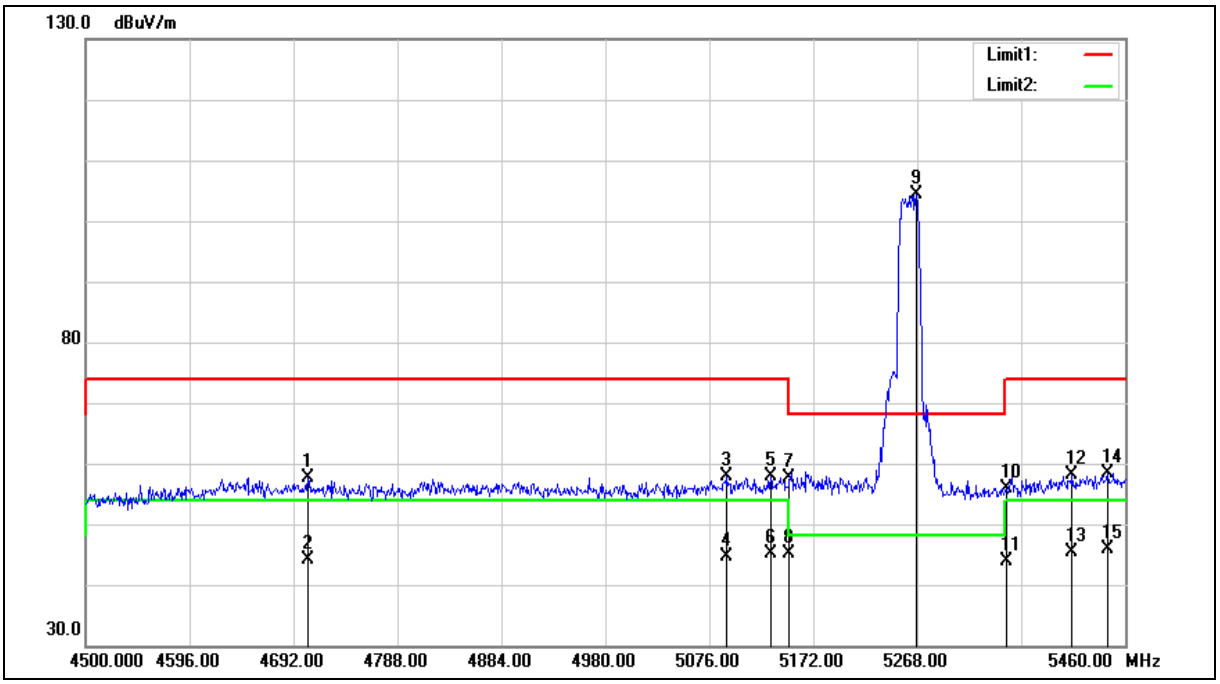
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4643.040	53.28	5.56	58.84	74.00	-15.16	peak
2	4643.040	39.46	5.56	45.02	54.00	-8.98	AVG
3	5114.400	51.05	6.65	57.70	74.00	-16.30	peak
4	5114.400	38.21	6.65	44.86	54.00	-9.14	AVG
5	5150.000	50.33	6.76	57.09	74.00	-16.91	peak
6	5150.000	38.42	6.76	45.18	54.00	-8.82	AVG
7	5242.080	96.29	7.02	103.31	--	--	peak
8	5350.000	47.51	7.35	54.86	74.00	-19.14	peak
9	5350.000	36.65	7.35	44.00	54.00	-10.00	AVG
10	5388.000	50.40	7.46	57.86	74.00	-16.14	peak
11	5388.000	37.45	7.46	44.91	54.00	-9.09	AVG
12	5435.040	51.62	7.62	59.24	74.00	-14.76	peak
13	5435.040	38.19	7.62	45.81	54.00	-8.19	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5260 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5260 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

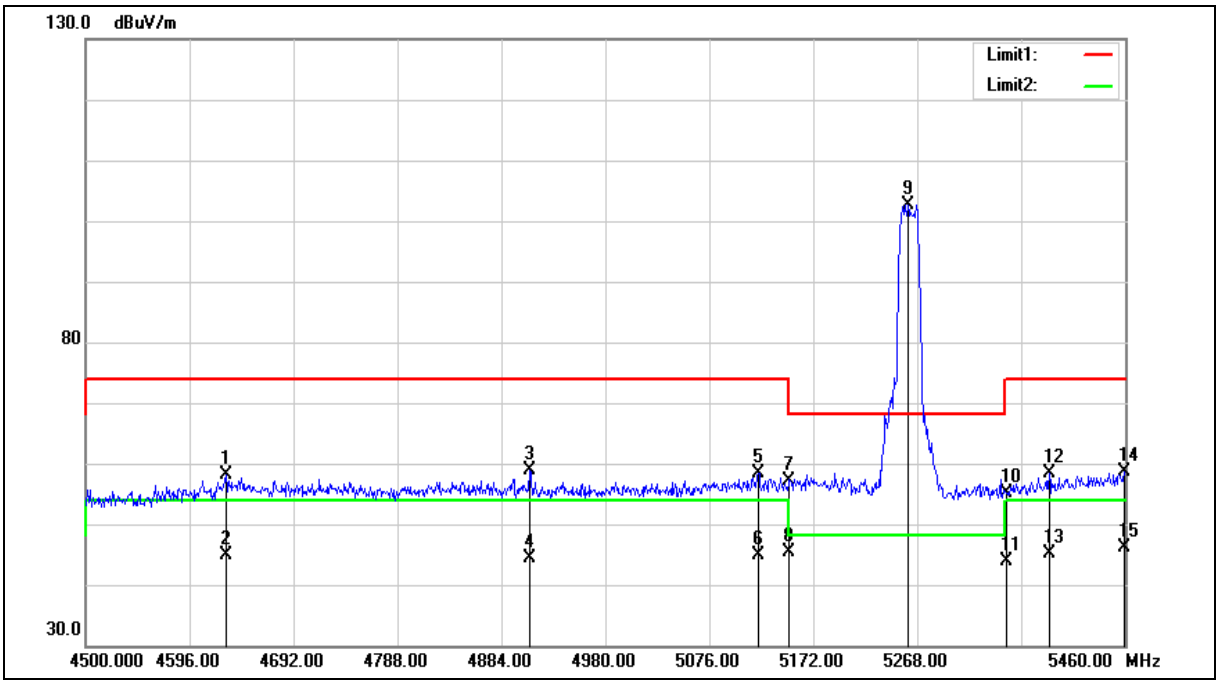
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4705.440	51.86	5.69	57.55	74.00	-16.45	peak
2	4705.440	38.45	5.69	44.14	54.00	-9.86	AVG
3	5092.320	51.38	6.59	57.97	74.00	-16.03	peak
4	5092.320	38.10	6.59	44.69	54.00	-9.31	AVG
5	5132.640	51.28	6.70	57.98	74.00	-16.02	peak
6	5132.640	38.40	6.70	45.10	54.00	-8.90	AVG
7	5150.000	50.96	6.76	57.72	74.00	-16.28	peak
8	5150.000	38.47	6.76	45.23	54.00	-8.77	AVG
9	5267.040	97.28	7.11	104.39	--	--	peak
10	5350.000	48.59	7.35	55.94	74.00	-18.06	peak
11	5350.000	36.54	7.35	43.89	54.00	-10.11	AVG
12	5411.040	50.65	7.53	58.18	74.00	-15.82	peak
13	5411.040	37.89	7.53	45.42	54.00	-8.58	AVG
14	5443.680	50.70	7.63	58.33	74.00	-15.67	peak
15	5443.680	38.24	7.63	45.87	54.00	-8.13	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5260 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5260 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

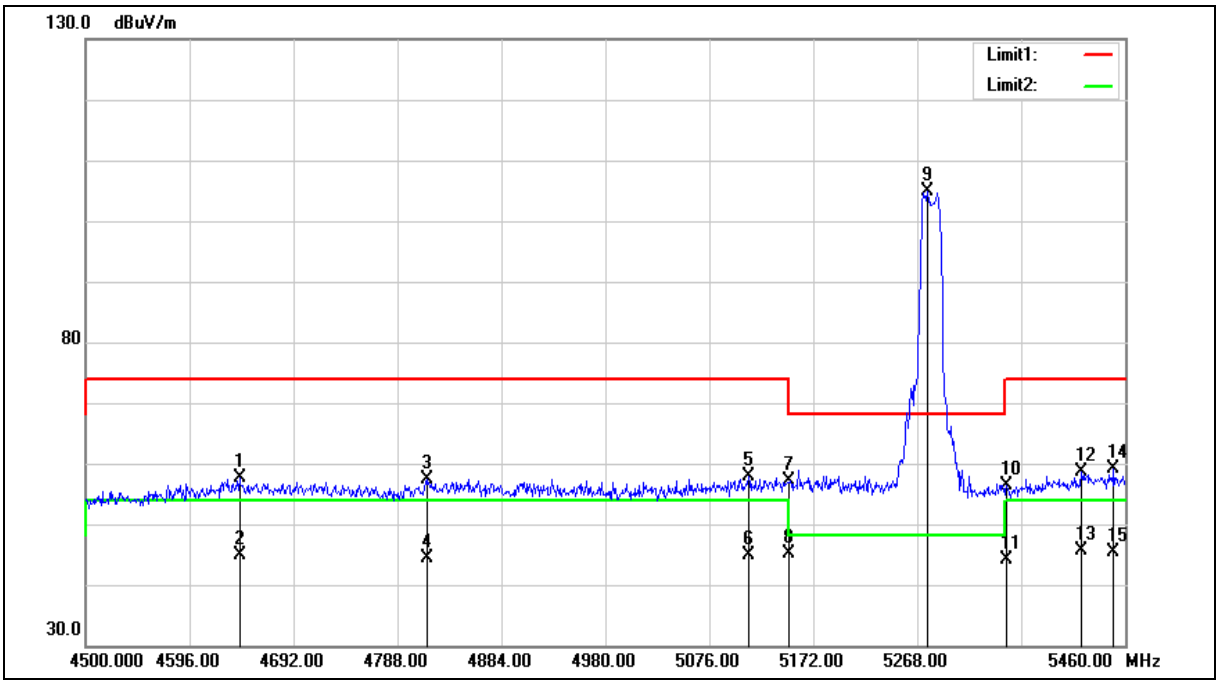
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4629.600	52.65	5.53	58.18	74.00	-15.82	peak
2	4629.600	39.26	5.53	44.79	54.00	-9.21	AVG
3	4909.920	52.69	6.12	58.81	74.00	-15.19	peak
4	4909.920	38.19	6.12	44.31	54.00	-9.69	AVG
5	5121.120	51.77	6.67	58.44	74.00	-15.56	peak
6	5121.120	38.27	6.67	44.94	54.00	-9.06	AVG
7	5150.000	50.41	6.76	57.17	74.00	-16.83	peak
8	5150.000	38.52	6.76	45.28	54.00	-8.72	AVG
9	5259.360	95.59	7.09	102.68	--	--	peak
10	5350.000	47.68	7.35	55.03	74.00	-18.97	peak
11	5350.000	36.64	7.35	43.99	54.00	-10.01	AVG
12	5389.920	51.02	7.47	58.49	74.00	-15.51	peak
13	5389.920	37.60	7.47	45.07	54.00	-8.93	AVG
14	5459.040	50.99	7.68	58.67	74.00	-15.33	peak
15	5459.040	38.38	7.68	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5280 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5280 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

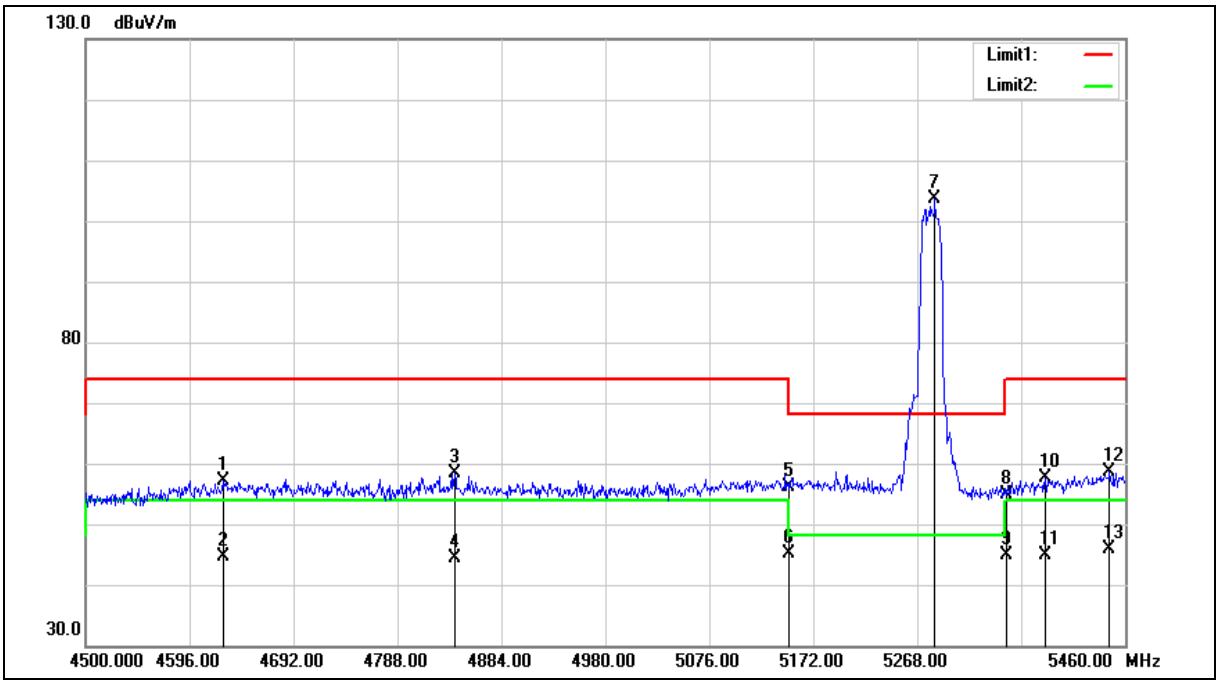
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4642.080	51.99	5.56	57.55	74.00	-16.45	peak
2	4642.080	39.44	5.56	45.00	54.00	-9.00	AVG
3	4814.880	51.44	5.91	57.35	74.00	-16.65	peak
4	4814.880	38.55	5.91	44.46	54.00	-9.54	AVG
5	5112.480	51.21	6.65	57.86	74.00	-16.14	peak
6	5112.480	38.13	6.65	44.78	54.00	-9.22	AVG
7	5150.000	50.26	6.76	57.02	74.00	-16.98	peak
8	5150.000	38.48	6.76	45.24	54.00	-8.76	AVG
9	5277.600	97.79	7.14	104.93	--	--	peak
10	5350.000	48.98	7.35	56.33	74.00	-17.67	peak
11	5350.000	36.69	7.35	44.04	54.00	-9.96	AVG
12	5419.680	51.07	7.57	58.64	74.00	-15.36	peak
13	5419.680	37.94	7.57	45.51	54.00	-8.49	AVG
14	5449.440	51.58	7.65	59.23	74.00	-14.77	peak
15	5449.440	37.69	7.65	45.34	54.00	-8.66	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5280 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5280 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

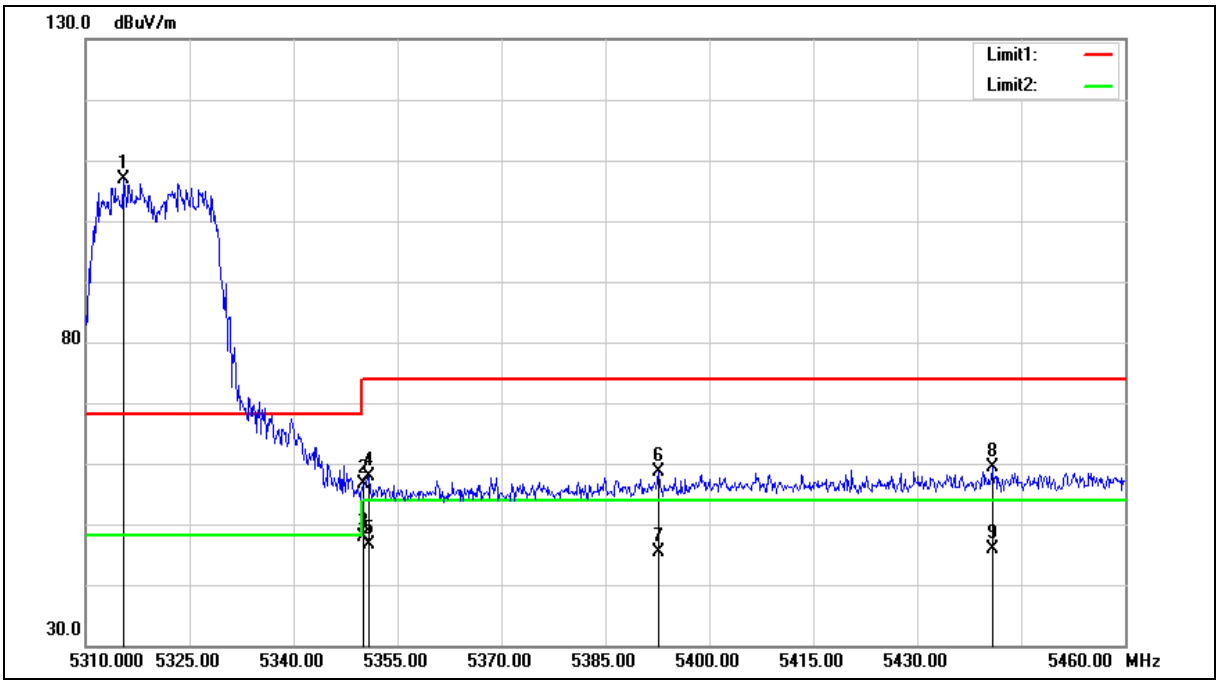
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4626.720	51.66	5.52	57.18	74.00	-16.82	peak
2	4626.720	39.00	5.52	44.52	54.00	-9.48	AVG
3	4840.800	52.47	5.98	58.45	74.00	-15.55	peak
4	4840.800	38.52	5.98	44.50	54.00	-9.50	AVG
5	5150.000	49.45	6.76	56.21	74.00	-17.79	peak
6	5150.000	38.39	6.76	45.15	54.00	-8.85	AVG
7	5284.320	96.53	7.16	103.69	--	--	peak
8	5350.000	47.60	7.35	54.95	74.00	-19.05	peak
9	5350.000	37.62	7.35	44.97	54.00	-9.03	AVG
10	5386.080	50.08	7.46	57.54	74.00	-16.46	peak
11	5386.080	37.40	7.46	44.86	54.00	-9.14	AVG
12	5445.600	50.91	7.65	58.56	74.00	-15.44	peak
13	5445.600	38.28	7.65	45.93	54.00	-8.07	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5320 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5320 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

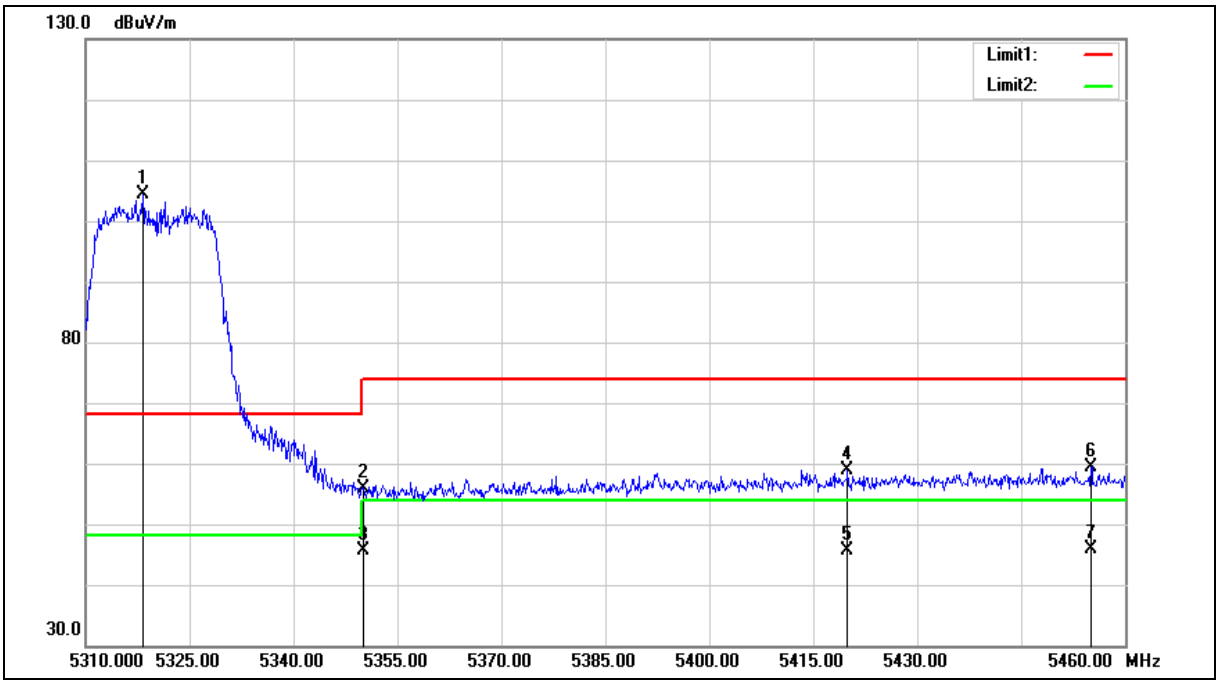
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5315.400	99.62	7.26	106.88	--	--	peak
2	5350.000	49.20	7.35	56.55	74.00	-17.45	peak
3	5350.000	40.58	7.35	47.93	54.00	-6.07	AVG
4	5350.950	50.53	7.35	57.88	74.00	-16.12	peak
5	5350.950	39.26	7.35	46.61	54.00	-7.39	AVG
6	5392.650	51.09	7.47	58.56	74.00	-15.44	peak
7	5392.650	37.96	7.47	45.43	54.00	-8.57	AVG
8	5440.800	51.74	7.63	59.37	74.00	-14.63	peak
9	5440.800	38.34	7.63	45.97	54.00	-8.03	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5320 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5320 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

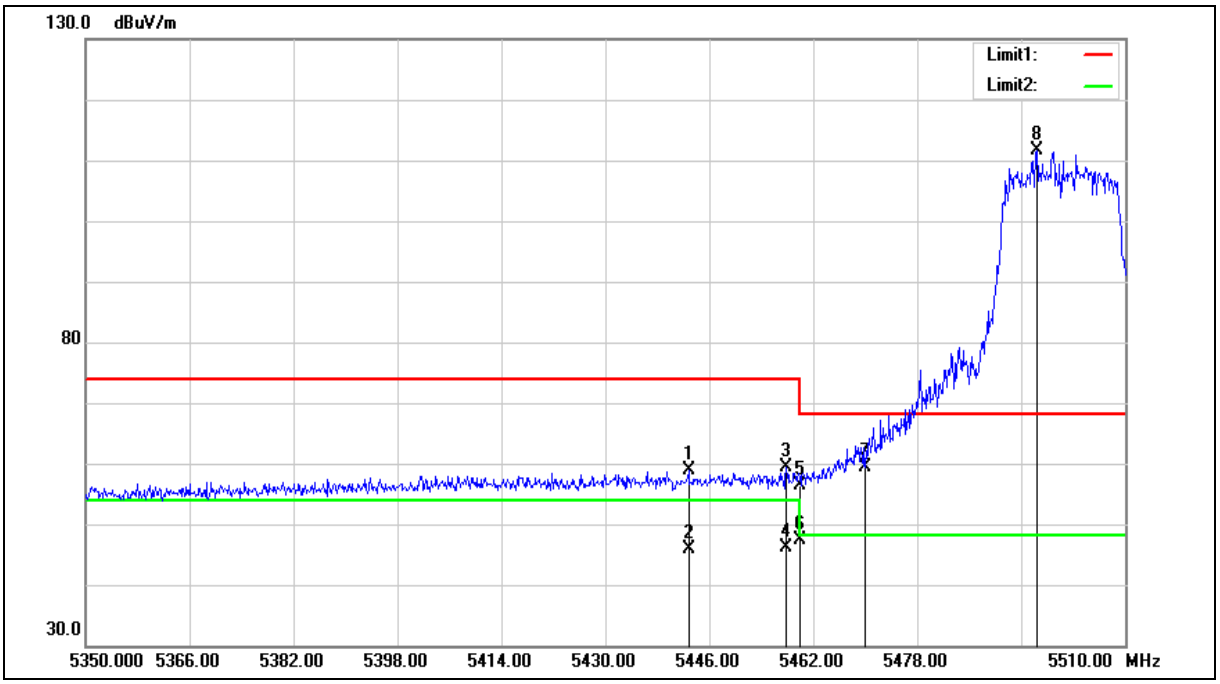
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5318.250	97.09	7.26	104.35	--	--	peak
2	5350.000	48.56	7.35	55.91	74.00	-18.09	peak
3	5350.000	38.39	7.35	45.74	54.00	-8.26	AVG
4	5419.950	51.37	7.57	58.94	74.00	-15.06	peak
5	5419.950	37.94	7.57	45.51	54.00	-8.49	AVG
6	5455.050	51.77	7.67	59.44	74.00	-14.56	peak
7	5455.050	38.25	7.67	45.92	54.00	-8.08	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

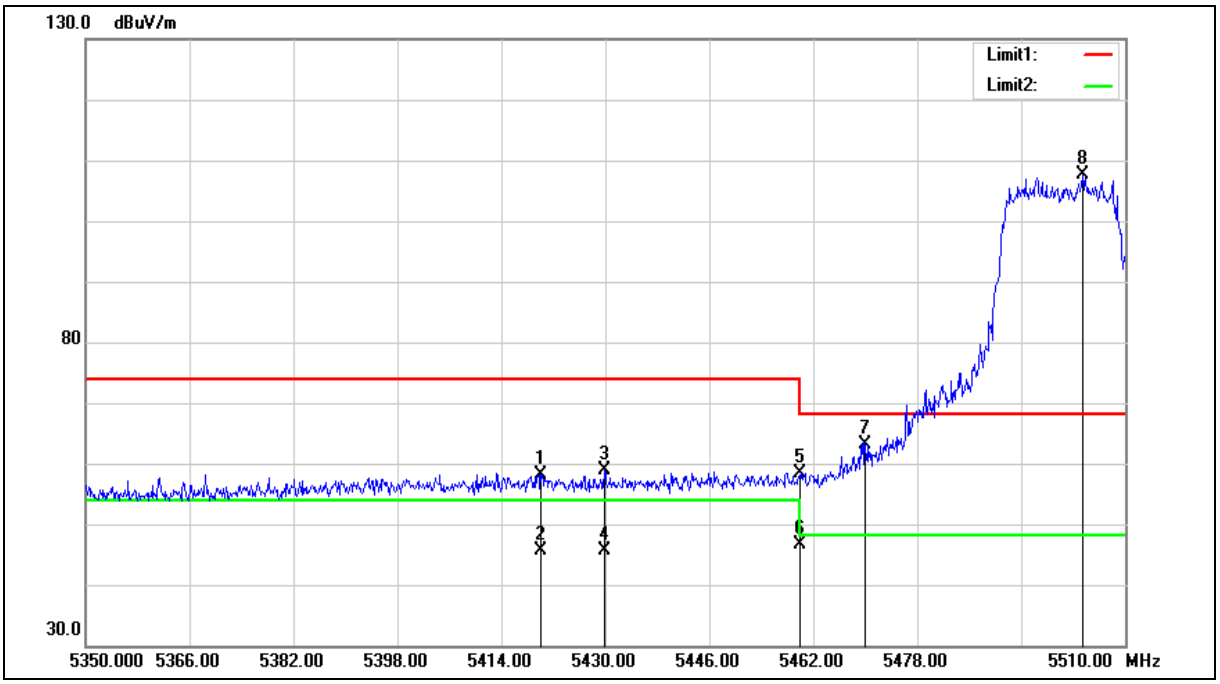
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5442.800	51.20	7.63	58.83	74.00	-15.17	peak
2	5442.800	38.33	7.63	45.96	54.00	-8.04	AVG
3	5457.840	51.62	7.68	59.30	74.00	-14.70	peak
4	5457.840	38.43	7.68	46.11	54.00	-7.89	AVG
5	5460.000	48.82	7.68	56.50	74.00	-17.50	peak
6	5460.000	39.66	7.68	47.34	54.00	-6.66	AVG
7	5470.000	51.76	7.71	59.47	68.20	-8.73	peak
8	5496.400	103.90	7.79	111.69	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5500 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

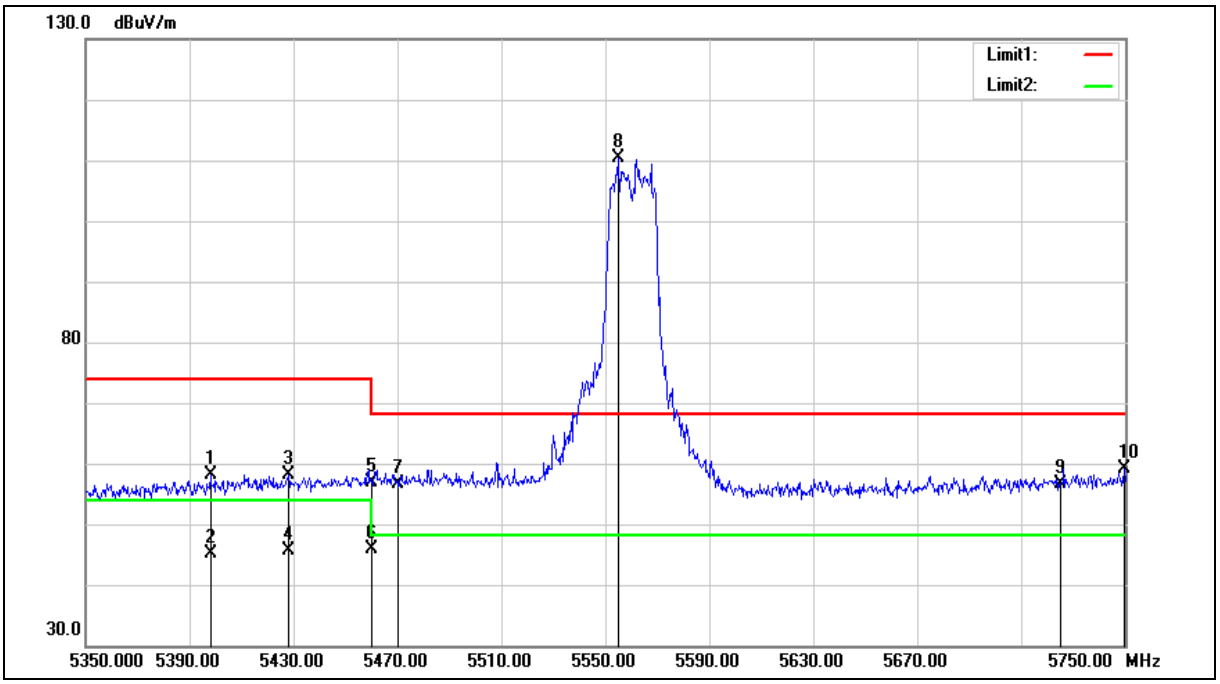
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5420.080	50.67	7.57	58.24	74.00	-15.76	peak
2	5420.080	37.95	7.57	45.52	54.00	-8.48	AVG
3	5429.840	51.24	7.60	58.84	74.00	-15.16	peak
4	5429.840	38.10	7.60	45.70	54.00	-8.30	AVG
5	5460.000	50.60	7.68	58.28	74.00	-15.72	peak
6	5460.000	38.86	7.68	46.54	54.00	-7.46	AVG
7	5470.000	55.52	7.71	63.23	68.20	-4.97	peak
8	5503.440	99.72	7.80	107.52	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5560 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5560 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

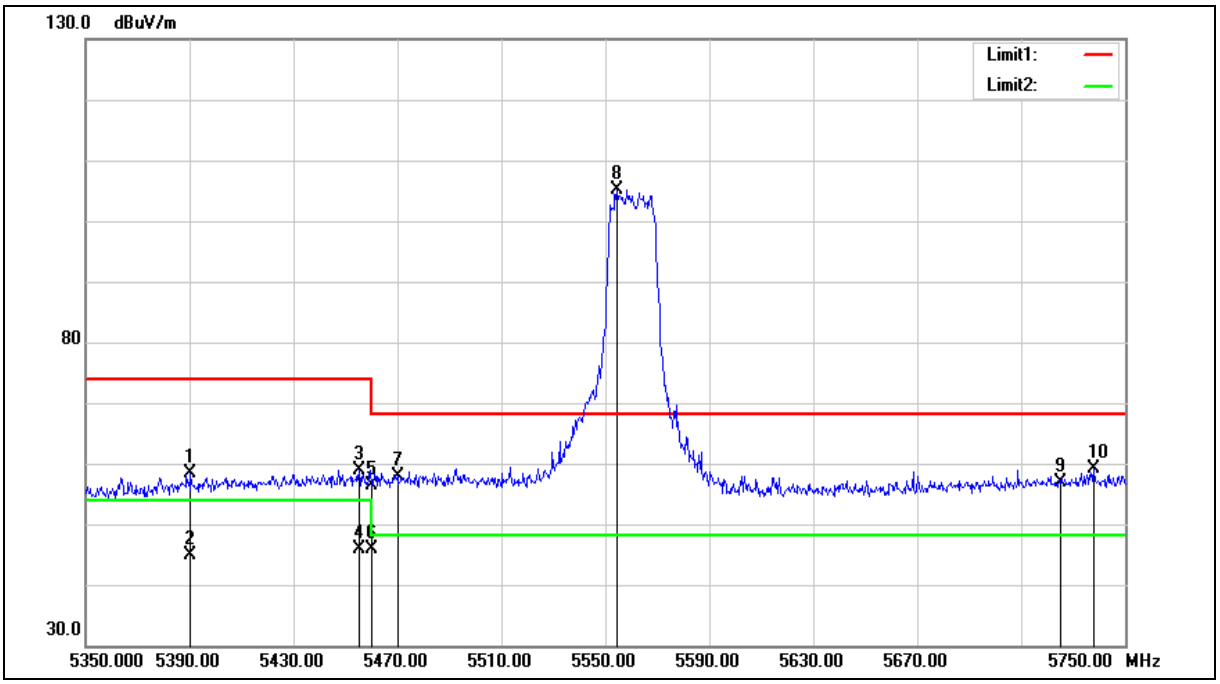
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5398.000	50.60	7.49	58.09	74.00	-15.91	peak
2	5398.000	37.65	7.49	45.14	54.00	-8.86	AVG
3	5428.000	50.45	7.59	58.04	74.00	-15.96	peak
4	5428.000	38.07	7.59	45.66	54.00	-8.34	AVG
5	5460.000	49.25	7.68	56.93	74.00	-17.07	peak
6	5460.000	38.30	7.68	45.98	54.00	-8.02	AVG
7	5470.000	48.98	7.71	56.69	68.20	-11.51	peak
8	5554.800	102.43	7.87	110.30	--	--	peak
9	5725.000	48.55	8.14	56.69	68.20	-11.51	peak
10	5749.600	50.84	8.17	59.01	68.20	-9.19	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5560 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5560 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

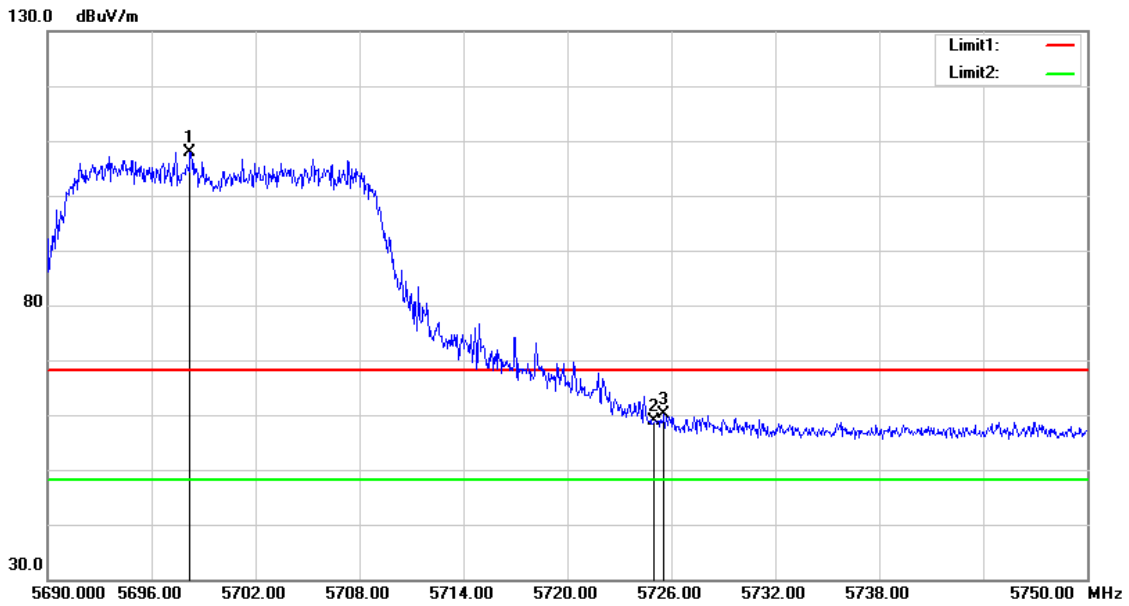
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5390.400	50.81	7.47	58.28	74.00	-15.72	peak
2	5390.400	37.50	7.47	44.97	54.00	-9.03	AVG
3	5455.200	51.15	7.67	58.82	74.00	-15.18	peak
4	5455.200	38.16	7.67	45.83	54.00	-8.17	AVG
5	5460.000	48.62	7.68	56.30	74.00	-17.70	peak
6	5460.000	38.27	7.68	45.95	54.00	-8.05	AVG
7	5470.000	50.28	7.71	57.99	68.20	-10.21	peak
8	5554.400	97.37	7.87	105.24	--	--	peak
9	5725.000	48.79	8.14	56.93	68.20	-11.27	peak
10	5738.000	50.91	8.15	59.06	68.20	-9.14	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5700 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



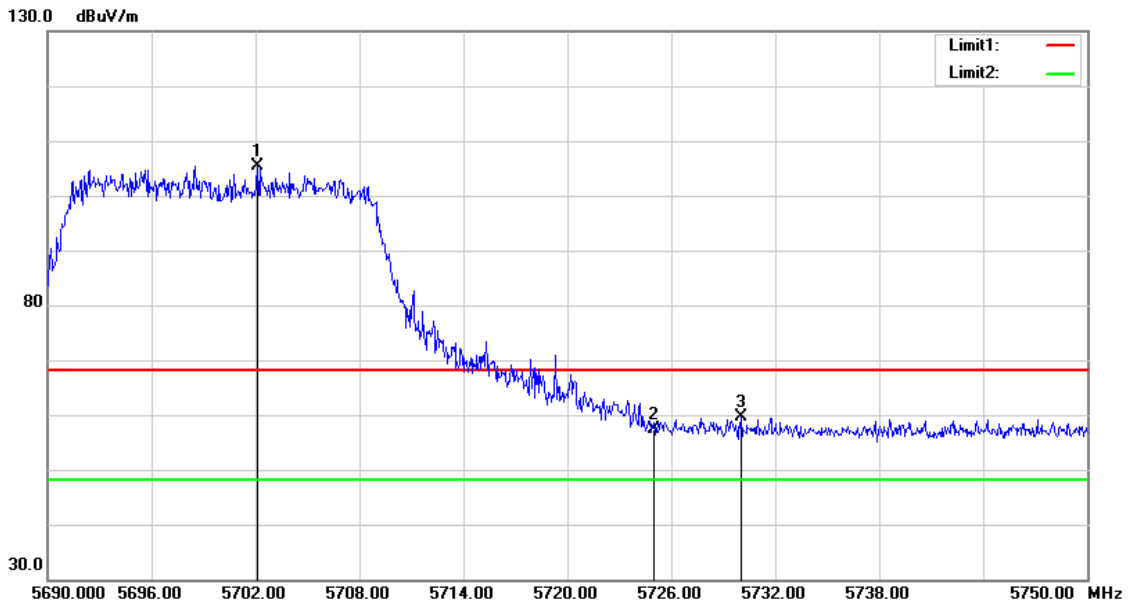
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5698.220	99.86	8.10	107.96	--	--	peak
2	5725.000	50.81	8.14	58.95	68.20	-9.25	peak
3	5725.580	52.07	8.14	60.21	68.20	-7.99	peak

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5700 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



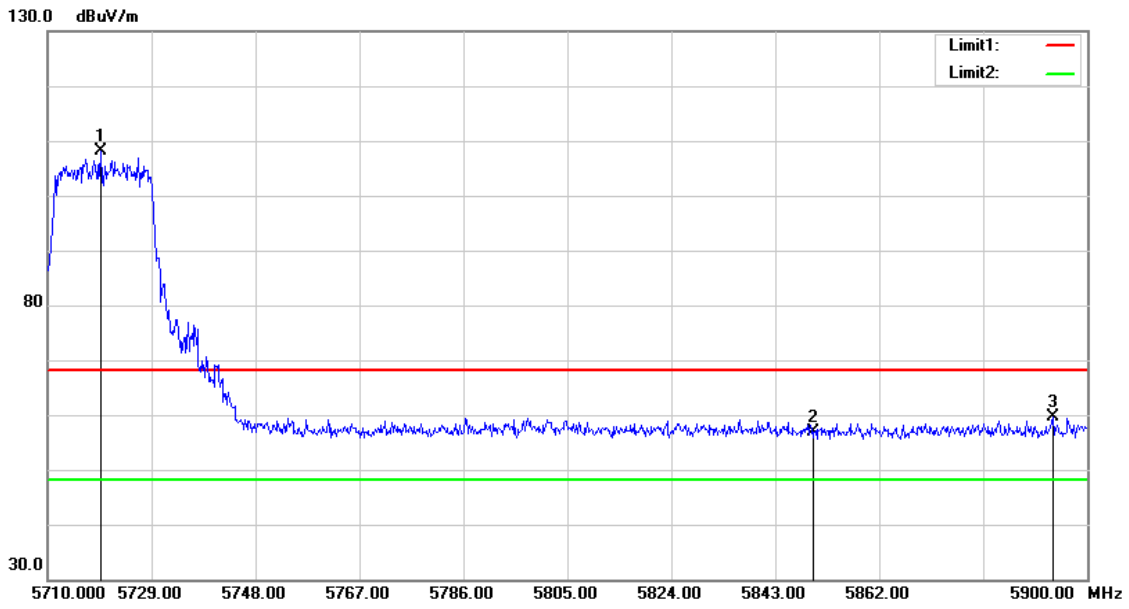
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5702.120	97.39	8.10	105.49	--	--	peak
2	5725.000	49.31	8.14	57.45	68.20	-10.75	peak
3	5730.020	51.48	8.14	59.62	68.20	-8.58	peak

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5720 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



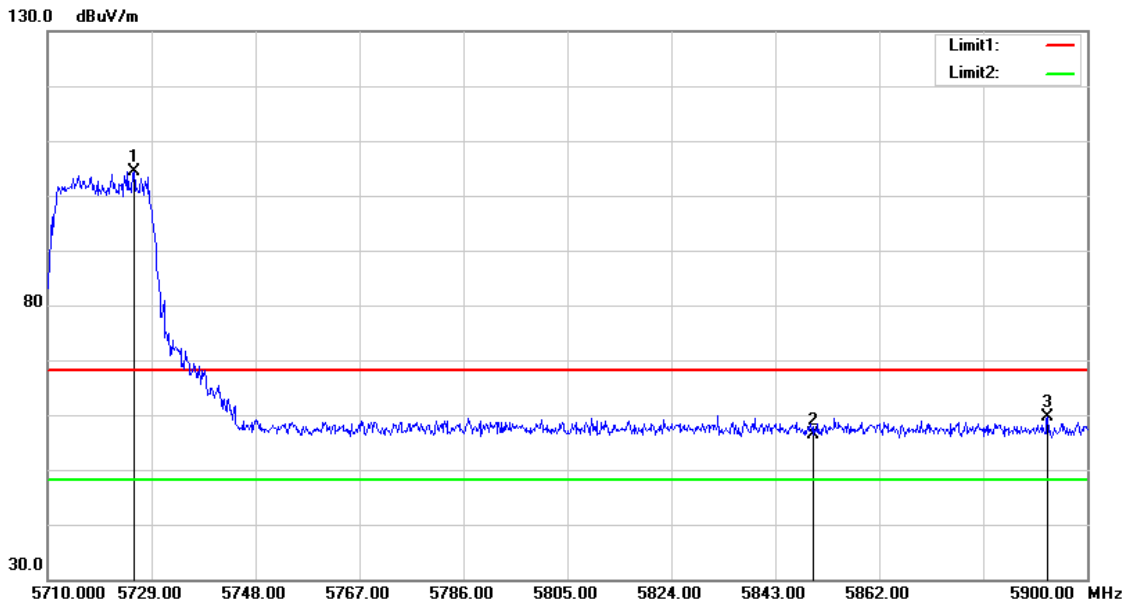
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5719.690	100.12	8.13	108.25	--	--	peak
2	5850.000	48.48	8.32	56.80	68.20	-11.40	peak
3	5893.730	51.20	8.38	59.58	68.20	-8.62	peak

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5720 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



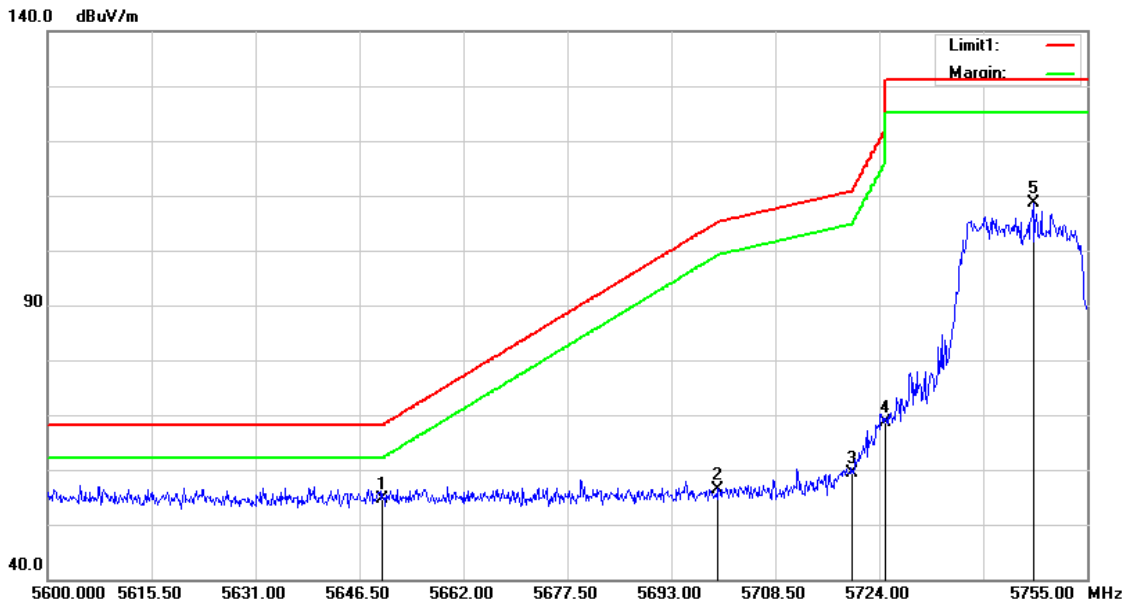
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.770	96.24	8.14	104.38	--	--	peak
2	5850.000	48.09	8.32	56.41	68.20	-11.79	peak
3	5892.780	51.31	8.38	59.69	68.20	-8.51	peak

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



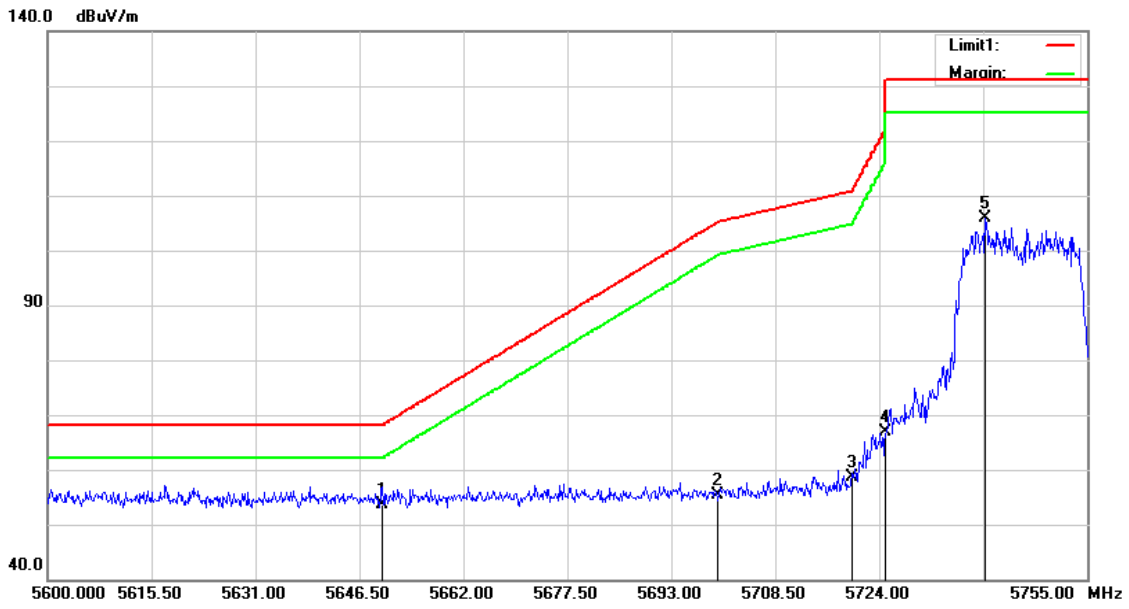
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	46.66	8.03	54.69	68.20	-13.51	peak
2	5700.000	48.21	8.10	56.31	105.20	-48.89	peak
3	5720.000	51.17	8.13	59.30	110.80	-51.50	peak
4	5725.000	60.54	8.14	68.68	122.20	-53.52	peak
5	5746.940	100.49	8.17	108.66	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



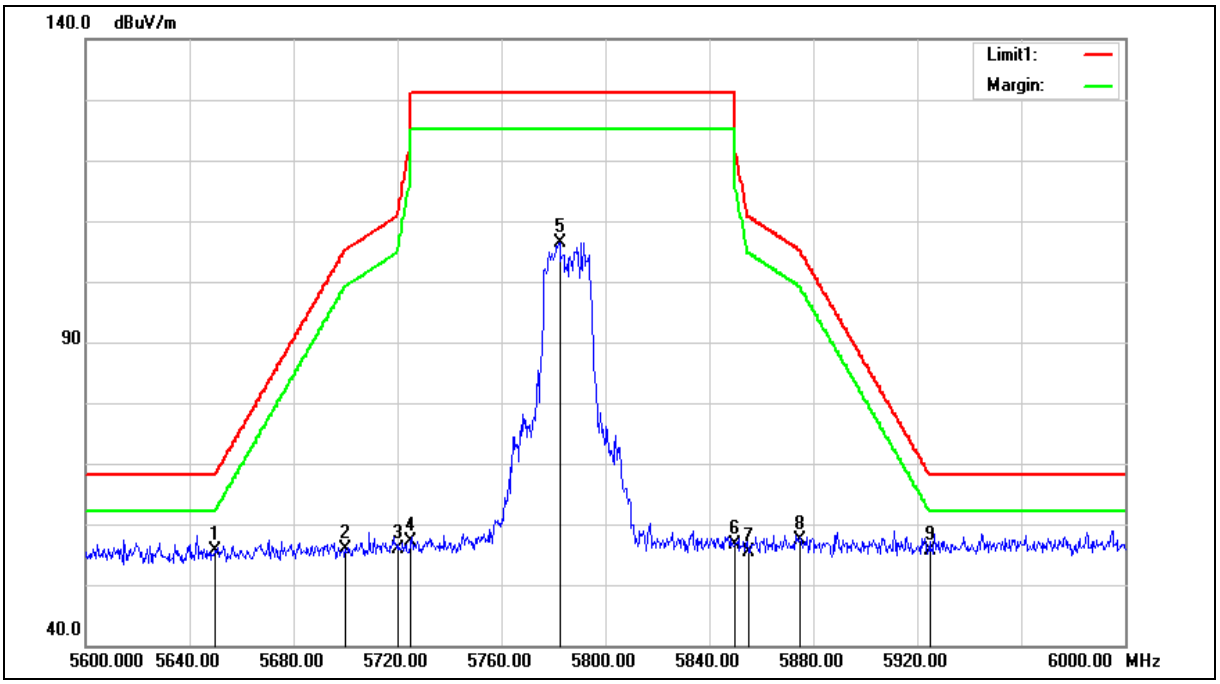
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	45.66	8.03	53.69	68.20	-14.51	peak
2	5700.000	47.29	8.10	55.39	105.20	-49.81	peak
3	5720.000	50.50	8.13	58.63	110.80	-52.17	peak
4	5725.000	58.63	8.14	66.77	122.20	-55.43	peak
5	5739.810	97.71	8.16	105.87	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

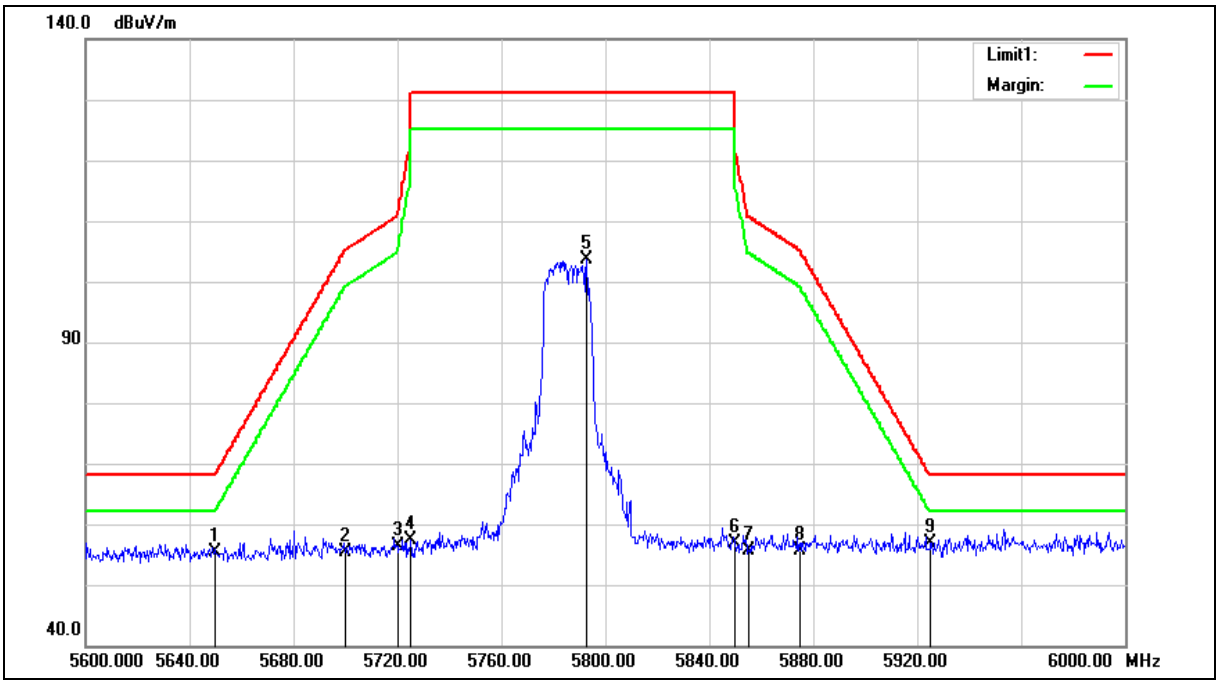
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.71	8.03	55.74	68.20	-12.46	peak
2	5700.000	47.73	8.10	55.83	105.20	-49.37	peak
3	5720.000	47.78	8.13	55.91	110.80	-54.89	peak
4	5725.000	48.88	8.14	57.02	122.20	-65.18	peak
5	5782.400	98.25	8.22	106.47	--	--	peak
6	5850.000	48.31	8.32	56.63	122.20	-65.57	peak
7	5855.000	47.09	8.33	55.42	110.80	-55.38	peak
8	5875.000	48.90	8.36	57.26	105.20	-47.94	peak
9	5925.000	47.25	8.44	55.69	68.20	-12.51	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

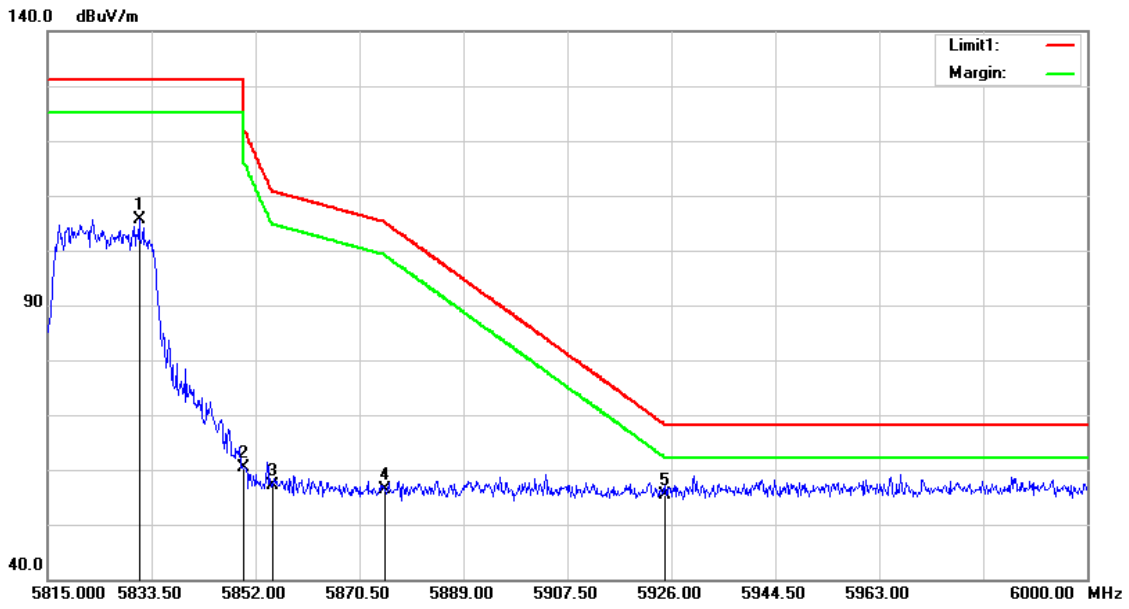
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.27	8.03	55.30	68.20	-12.90	peak
2	5700.000	47.34	8.10	55.44	105.20	-49.76	peak
3	5720.000	48.34	8.13	56.47	110.80	-54.33	peak
4	5725.000	49.15	8.14	57.29	122.20	-64.91	peak
5	5792.800	95.50	8.24	103.74	--	--	peak
6	5850.000	48.48	8.32	56.80	122.20	-65.40	peak
7	5855.000	47.42	8.33	55.75	110.80	-55.05	peak
8	5875.000	47.34	8.36	55.70	105.20	-49.50	peak
9	5925.000	48.44	8.44	56.88	68.20	-11.32	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



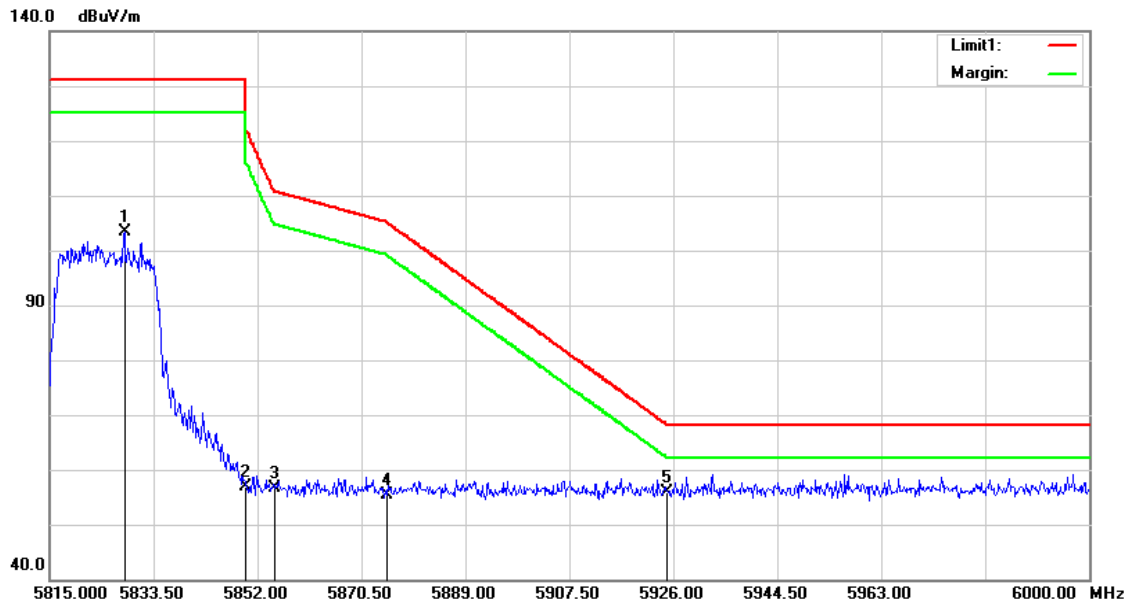
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5831.280	97.41	8.30	105.71	--	--	peak
2	5850.000	52.17	8.32	60.49	122.20	-61.71	peak
3	5855.000	48.80	8.33	57.13	110.80	-53.67	peak
4	5875.000	48.07	8.36	56.43	105.20	-48.77	peak
5	5925.000	47.03	8.44	55.47	68.20	-12.73	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



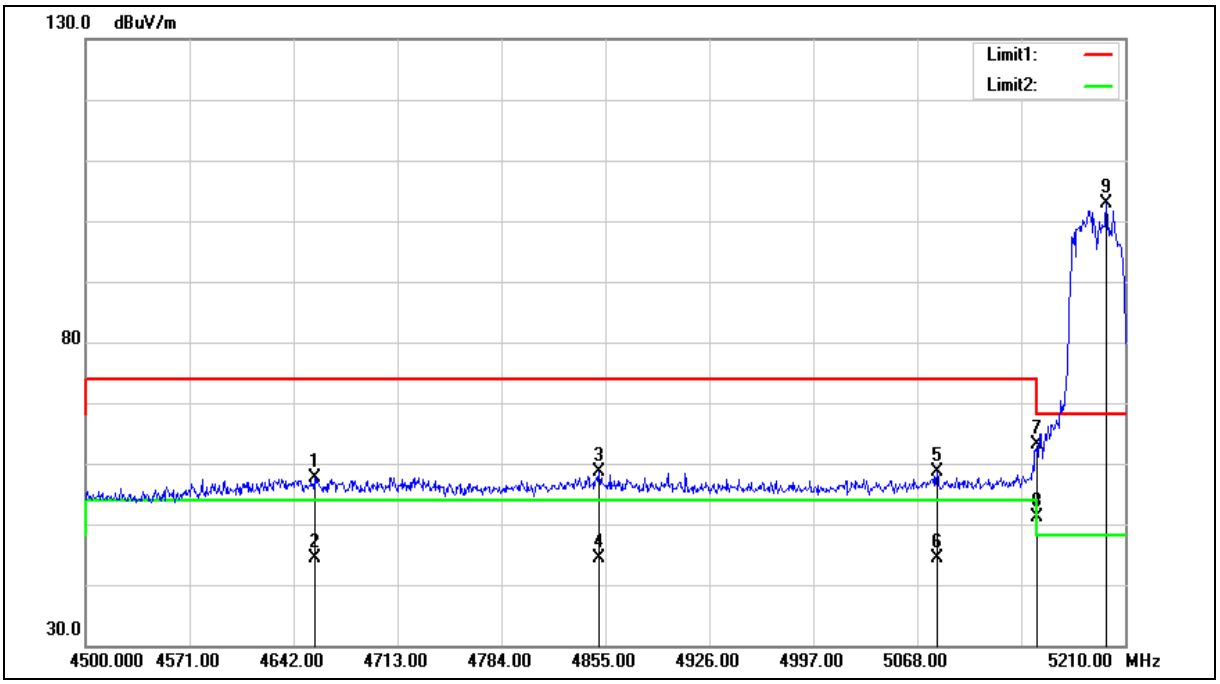
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5828.320	95.18	8.29	103.47	--	--	peak
2	5850.000	48.48	8.32	56.80	122.20	-65.40	peak
3	5855.000	48.21	8.33	56.54	110.80	-54.26	peak
4	5875.000	47.03	8.36	55.39	105.20	-49.81	peak
5	5925.000	47.40	8.44	55.84	68.20	-12.36	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5190 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5190 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

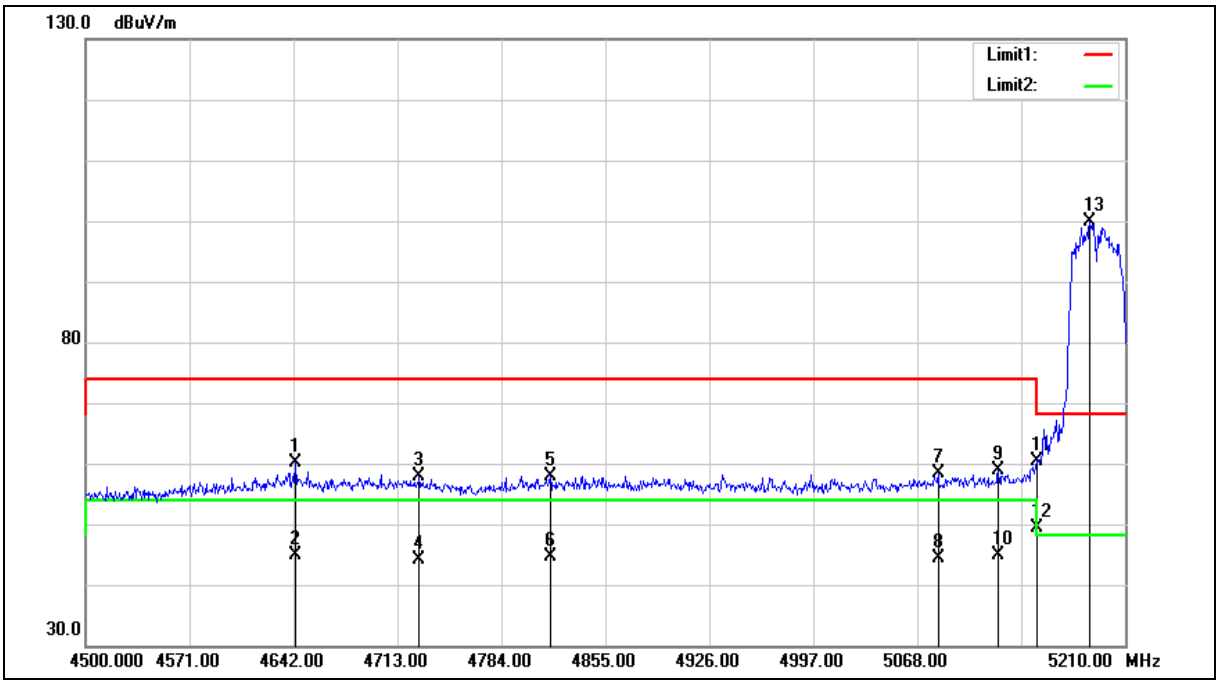
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4656.200	51.99	5.58	57.57	74.00	-16.43	peak
2	4656.200	38.71	5.58	44.29	54.00	-9.71	AVG
3	4850.740	52.52	6.00	58.52	74.00	-15.48	peak
4	4850.740	38.40	6.00	44.40	54.00	-9.60	AVG
5	5081.490	52.18	6.55	58.73	74.00	-15.27	peak
6	5081.490	37.93	6.55	44.48	54.00	-9.52	AVG
7	5150.000	56.26	6.76	63.02	74.00	-10.98	peak
8	5150.000	44.46	6.76	51.22	54.00	-2.78	AVG
9	5197.220	95.98	6.90	102.88	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5190 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5190 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

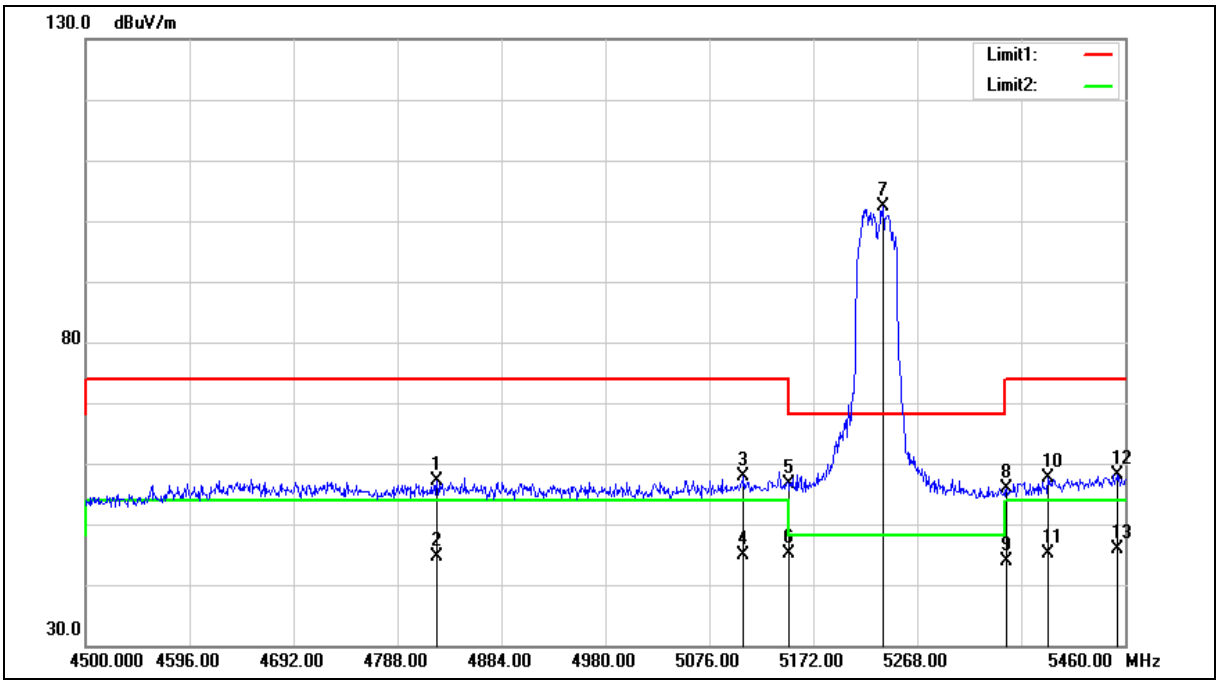
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4643.420	54.60	5.57	60.17	74.00	-13.83	peak
2	4643.420	39.39	5.57	44.96	54.00	-9.04	AVG
3	4727.910	52.09	5.74	57.83	74.00	-16.17	peak
4	4727.910	38.49	5.74	44.23	54.00	-9.77	AVG
5	4817.370	51.90	5.92	57.82	74.00	-16.18	peak
6	4817.370	38.60	5.92	44.52	54.00	-9.48	AVG
7	5082.200	51.95	6.55	58.50	74.00	-15.50	peak
8	5082.200	37.90	6.55	44.45	54.00	-9.55	AVG
9	5123.380	52.13	6.68	58.81	74.00	-15.19	peak
10	5123.380	38.23	6.68	44.91	54.00	-9.09	AVG
11	5150.000	53.50	6.76	60.26	74.00	-13.74	peak
12	5150.000	42.65	6.76	49.41	54.00	-4.59	AVG
13	5185.860	93.07	6.87	99.94	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5230 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5230 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

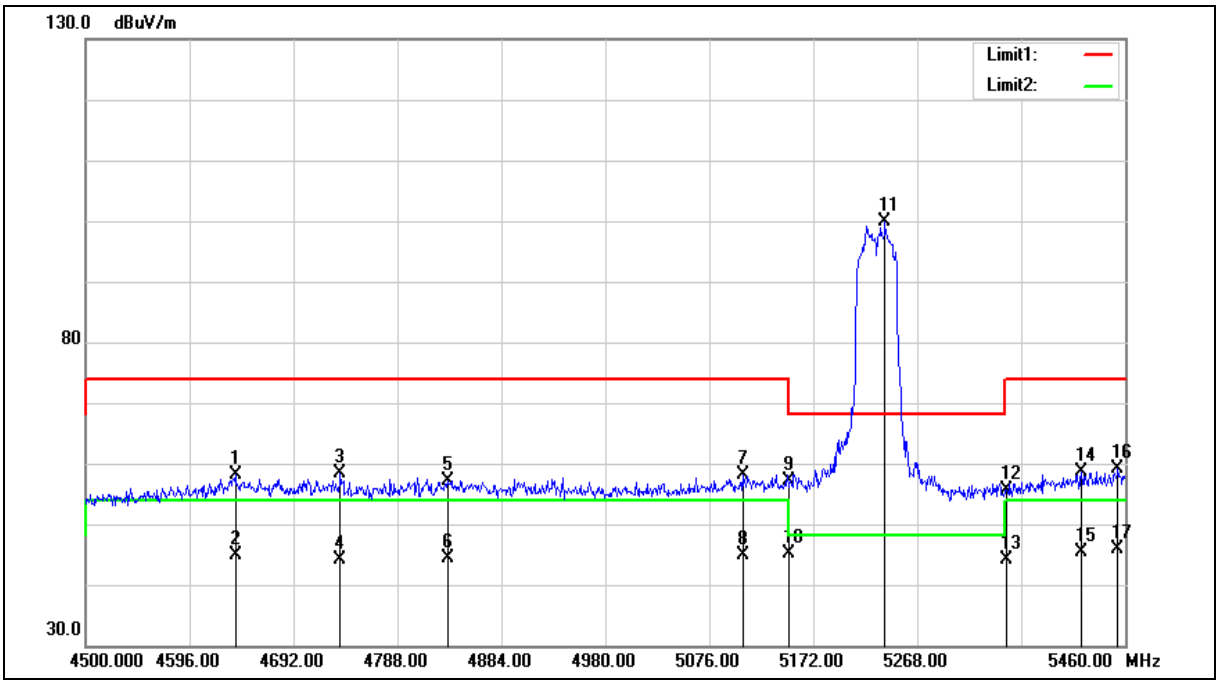
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.480	51.30	5.93	57.23	74.00	-16.77	peak
2	4824.480	38.58	5.93	44.51	54.00	-9.49	AVG
3	5107.680	51.22	6.64	57.86	74.00	-16.14	peak
4	5107.680	38.15	6.64	44.79	54.00	-9.21	AVG
5	5150.000	49.80	6.76	56.56	74.00	-17.44	peak
6	5150.000	38.46	6.76	45.22	54.00	-8.78	AVG
7	5236.320	95.38	7.01	102.39	--	--	peak
8	5350.000	48.56	7.35	55.91	74.00	-18.09	peak
9	5350.000	36.60	7.35	43.95	54.00	-10.05	AVG
10	5388.960	50.11	7.47	57.58	74.00	-16.42	peak
11	5388.960	37.66	7.47	45.13	54.00	-8.87	AVG
12	5453.280	50.53	7.66	58.19	74.00	-15.81	peak
13	5453.280	38.26	7.66	45.92	54.00	-8.08	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5230 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5230 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

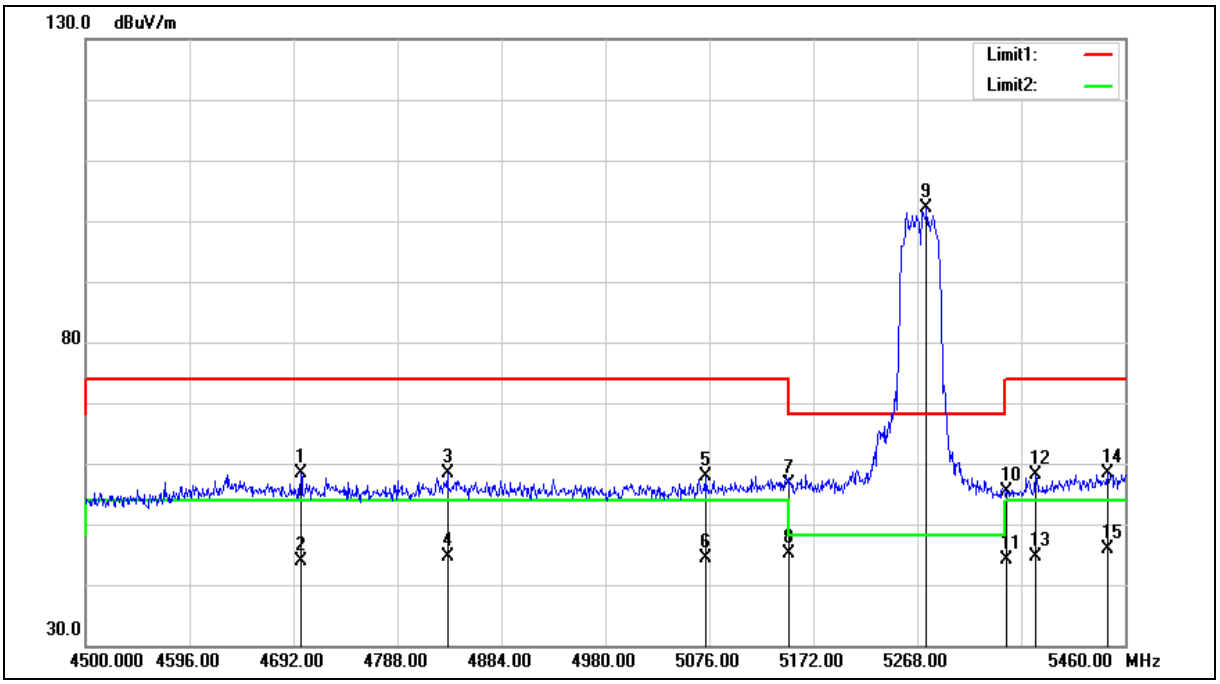
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4638.240	52.50	5.55	58.05	74.00	-15.95	peak
2	4638.240	39.34	5.55	44.89	54.00	-9.11	AVG
3	4735.200	52.67	5.75	58.42	74.00	-15.58	peak
4	4735.200	38.38	5.75	44.13	54.00	-9.87	AVG
5	4834.080	51.27	5.96	57.23	74.00	-16.77	peak
6	4834.080	38.54	5.96	44.50	54.00	-9.50	AVG
7	5106.720	51.47	6.63	58.10	74.00	-15.90	peak
8	5106.720	38.14	6.63	44.77	54.00	-9.23	AVG
9	5150.000	50.33	6.76	57.09	74.00	-16.91	peak
10	5150.000	38.36	6.76	45.12	54.00	-8.88	AVG
11	5238.240	92.85	7.02	99.87	--	--	peak
12	5350.000	48.35	7.35	55.70	74.00	-18.30	peak
13	5350.000	36.71	7.35	44.06	54.00	-9.94	AVG
14	5419.680	51.15	7.57	58.72	74.00	-15.28	peak
15	5419.680	37.93	7.57	45.50	54.00	-8.50	AVG
16	5453.280	51.35	7.66	59.01	74.00	-14.99	peak
17	5453.280	38.26	7.66	45.92	54.00	-8.08	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5270 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5270 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

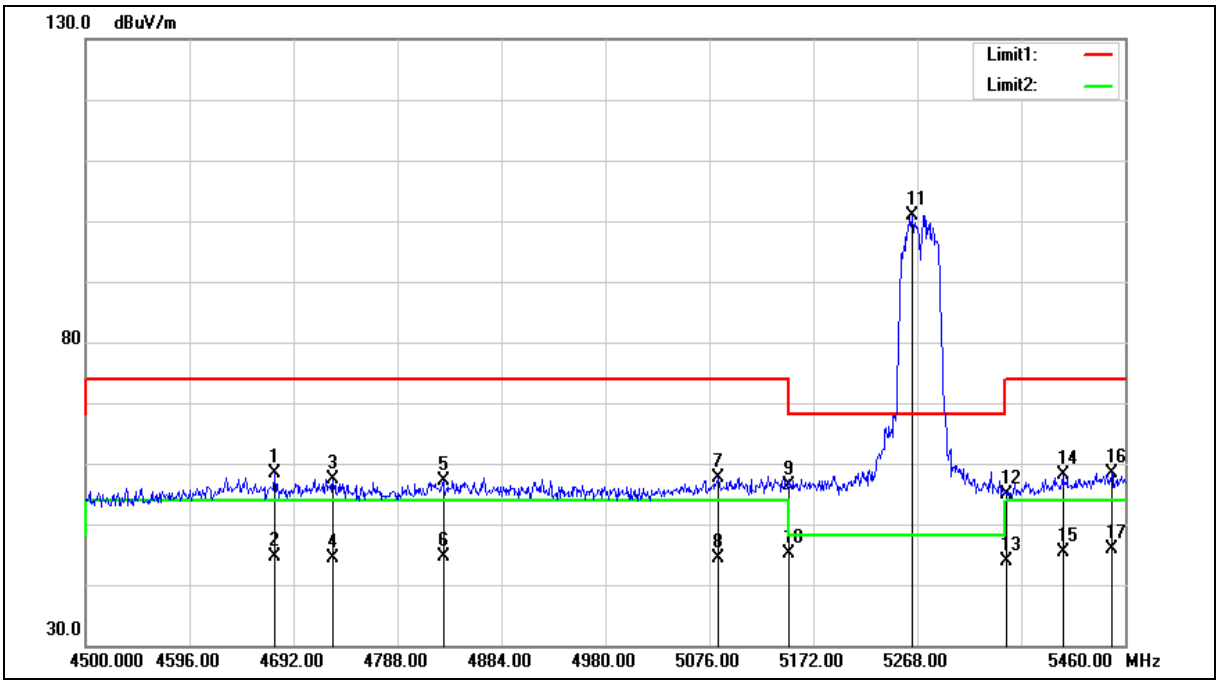
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4698.720	52.65	5.67	58.32	74.00	-15.68	peak
2	4698.720	38.21	5.67	43.88	54.00	-10.12	AVG
3	4834.080	52.32	5.96	58.28	74.00	-15.72	peak
4	4834.080	38.55	5.96	44.51	54.00	-9.49	AVG
5	5072.160	51.27	6.52	57.79	74.00	-16.21	peak
6	5072.160	37.82	6.52	44.34	54.00	-9.66	AVG
7	5150.000	49.99	6.76	56.75	74.00	-17.25	peak
8	5150.000	38.46	6.76	45.22	54.00	-8.78	AVG
9	5276.640	94.91	7.14	102.05	--	--	peak
10	5350.000	48.07	7.35	55.42	74.00	-18.58	peak
11	5350.000	36.77	7.35	44.12	54.00	-9.88	AVG
12	5377.440	50.59	7.43	58.02	74.00	-15.98	peak
13	5377.440	37.13	7.43	44.56	54.00	-9.44	AVG
14	5443.680	50.72	7.63	58.35	74.00	-15.65	peak
15	5443.680	38.24	7.63	45.87	54.00	-8.13	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5270 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5270 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

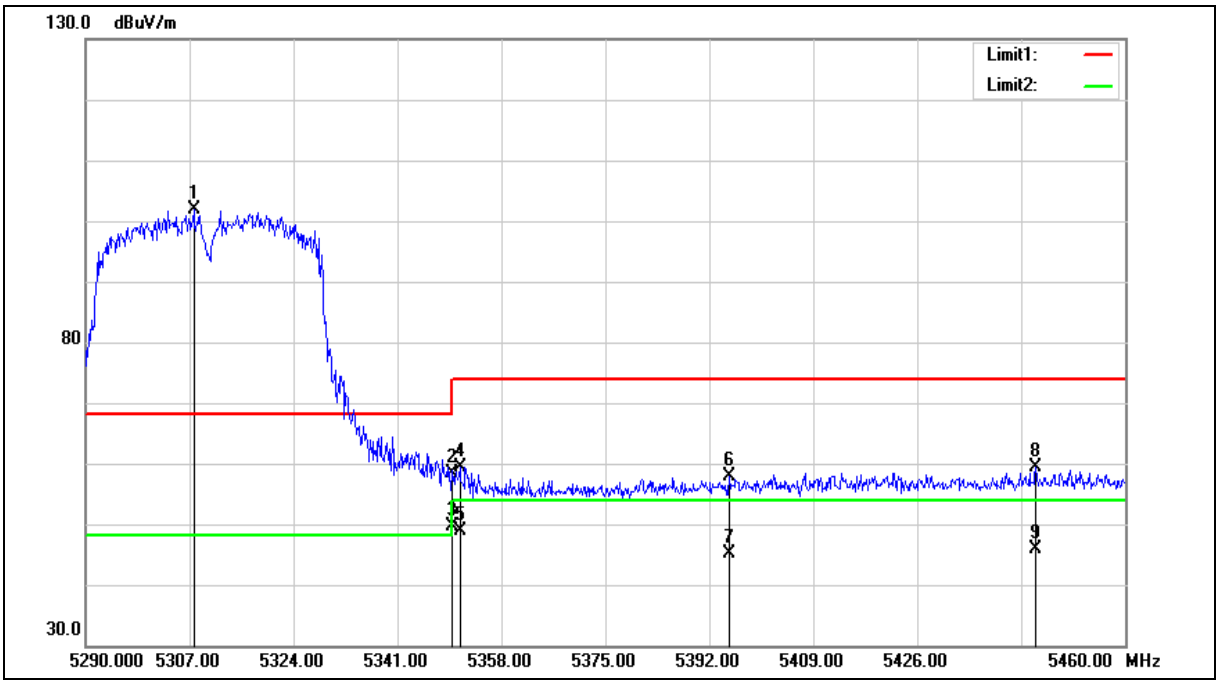
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4674.720	52.69	5.62	58.31	74.00	-15.69	peak
2	4674.720	38.91	5.62	44.53	54.00	-9.47	AVG
3	4728.480	51.71	5.74	57.45	74.00	-16.55	peak
4	4728.480	38.53	5.74	44.27	54.00	-9.73	AVG
5	4830.240	51.07	5.95	57.02	74.00	-16.98	peak
6	4830.240	38.61	5.95	44.56	54.00	-9.44	AVG
7	5083.680	51.09	6.56	57.65	74.00	-16.35	peak
8	5083.680	37.91	6.56	44.47	54.00	-9.53	AVG
9	5150.000	49.55	6.76	56.31	74.00	-17.69	peak
10	5150.000	38.43	6.76	45.19	54.00	-8.81	AVG
11	5263.200	93.70	7.10	100.80	--	--	peak
12	5350.000	47.47	7.35	54.82	74.00	-19.18	peak
13	5350.000	36.59	7.35	43.94	54.00	-10.06	AVG
14	5402.400	50.60	7.50	58.10	74.00	-15.90	peak
15	5402.400	37.78	7.50	45.28	54.00	-8.72	AVG
16	5447.520	50.78	7.65	58.43	74.00	-15.57	peak
17	5447.520	38.27	7.65	45.92	54.00	-8.08	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5310 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5310 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

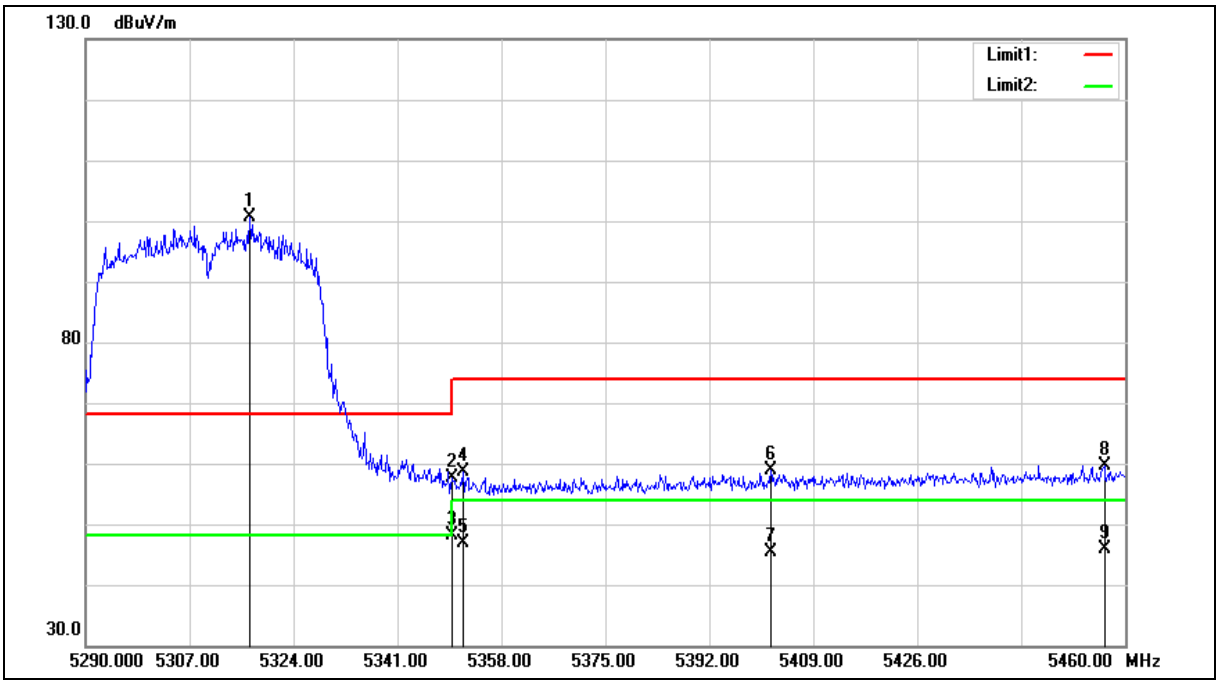
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5307.680	94.74	7.23	101.97	--	--	peak
2	5350.000	51.02	7.35	58.37	74.00	-15.63	peak
3	5350.000	42.20	7.35	49.55	54.00	-4.45	AVG
4	5351.200	52.00	7.35	59.35	74.00	-14.65	peak
5	5351.200	41.48	7.35	48.83	54.00	-5.17	AVG
6	5395.230	50.28	7.49	57.77	74.00	-16.23	peak
7	5395.230	37.61	7.49	45.10	54.00	-8.90	AVG
8	5445.380	51.66	7.65	59.31	74.00	-14.69	peak
9	5445.380	38.26	7.65	45.91	54.00	-8.09	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5310 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5310 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

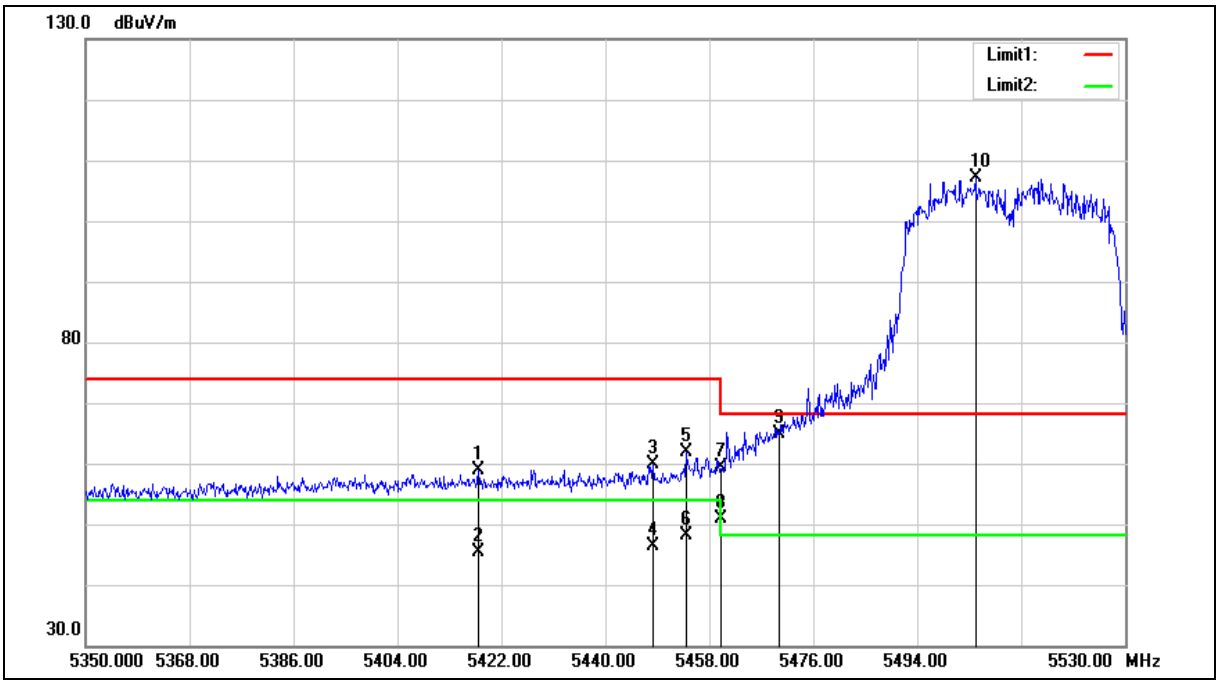
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5316.860	93.31	7.26	100.57	--	--	peak
2	5350.000	50.37	7.35	57.72	74.00	-16.28	peak
3	5350.000	40.72	7.35	48.07	54.00	-5.93	AVG
4	5351.710	51.22	7.36	58.58	74.00	-15.42	peak
5	5351.710	39.57	7.36	46.93	54.00	-7.07	AVG
6	5402.030	51.37	7.50	58.87	74.00	-15.13	peak
7	5402.030	37.82	7.50	45.32	54.00	-8.68	AVG
8	5456.600	51.99	7.68	59.67	74.00	-14.33	peak
9	5456.600	38.27	7.68	45.95	54.00	-8.05	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5510 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5510 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

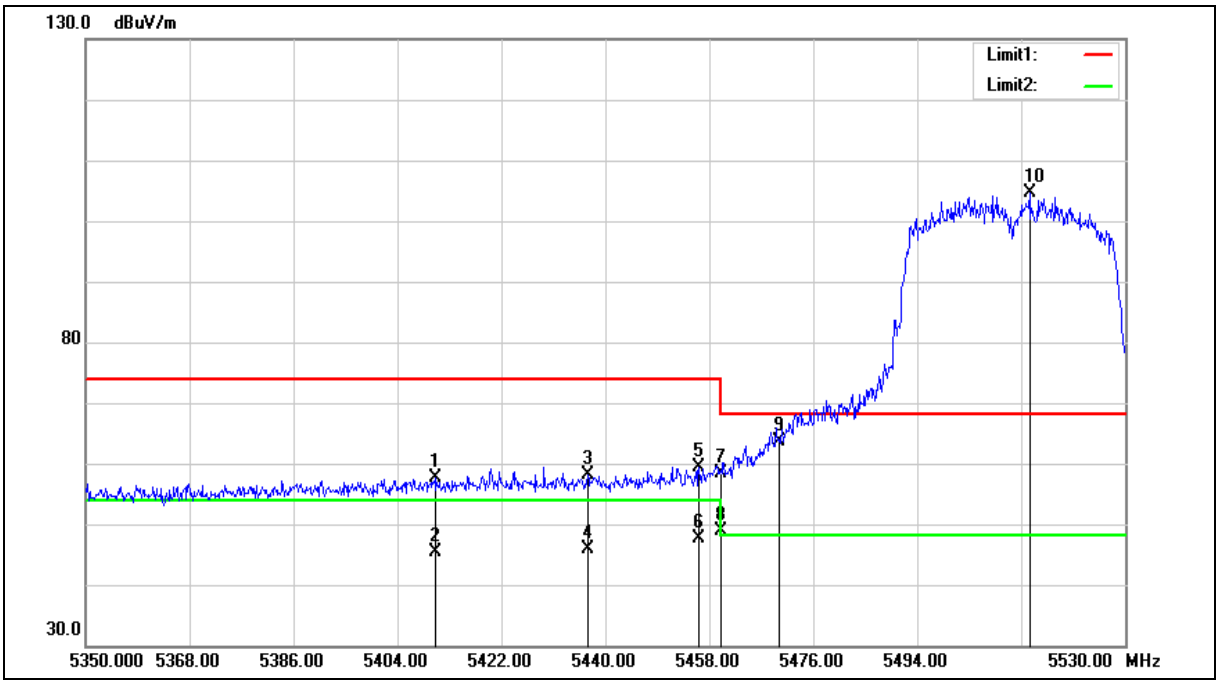
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5418.040	51.39	7.56	58.95	74.00	-15.05	peak
2	5418.040	37.93	7.56	45.49	54.00	-8.51	AVG
3	5448.280	52.26	7.65	59.91	74.00	-14.09	peak
4	5448.280	38.62	7.65	46.27	54.00	-7.73	AVG
5	5454.040	54.22	7.66	61.88	74.00	-12.12	peak
6	5454.040	40.49	7.66	48.15	54.00	-5.85	AVG
7	5460.000	51.67	7.68	59.35	74.00	-14.65	peak
8	5460.000	43.21	7.68	50.89	54.00	-3.11	AVG
9	5470.000	57.15	7.71	64.86	68.20	-3.34	peak
10	5504.080	99.38	7.80	107.18	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5510 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5510 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

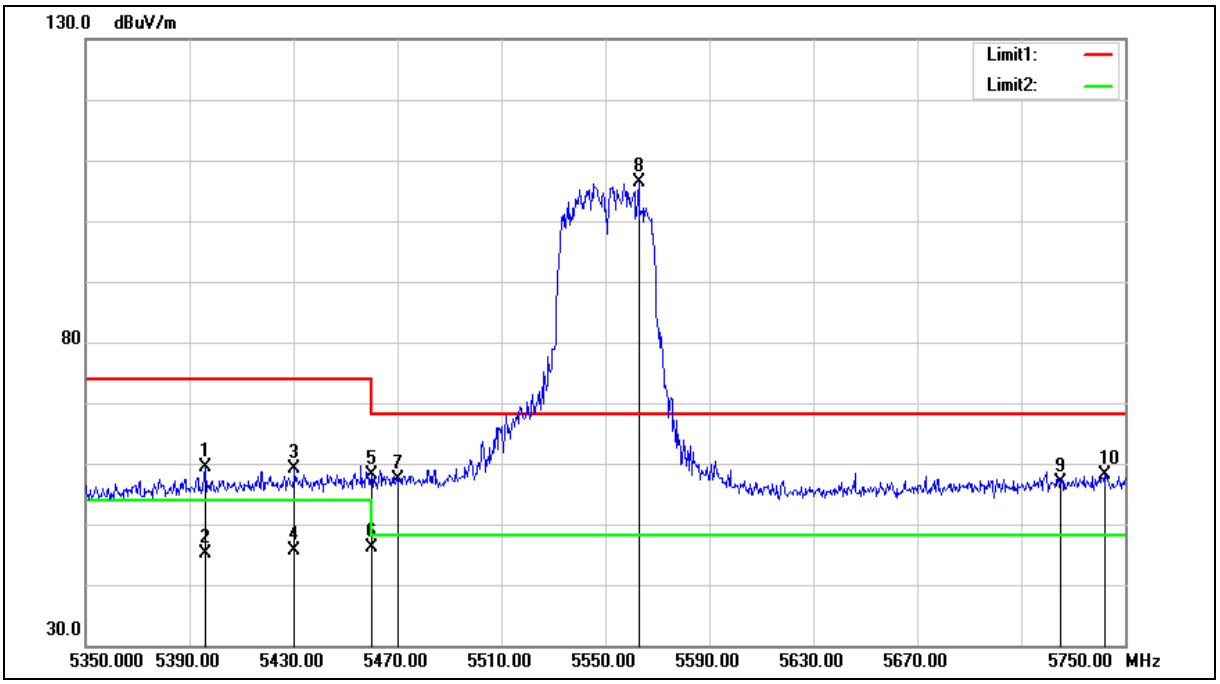
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5410.480	49.99	7.53	57.52	74.00	-16.48	peak
2	5410.480	37.83	7.53	45.36	54.00	-8.64	AVG
3	5436.940	50.51	7.62	58.13	74.00	-15.87	peak
4	5436.940	38.23	7.62	45.85	54.00	-8.15	AVG
5	5456.200	51.60	7.68	59.28	74.00	-14.72	peak
6	5456.200	39.99	7.68	47.67	54.00	-6.33	AVG
7	5460.000	50.62	7.68	58.30	74.00	-15.70	peak
8	5460.000	41.24	7.68	48.92	54.00	-5.08	AVG
9	5470.000	55.90	7.71	63.61	68.20	-4.59	peak
10	5513.440	96.71	7.82	104.53	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5550 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5550 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

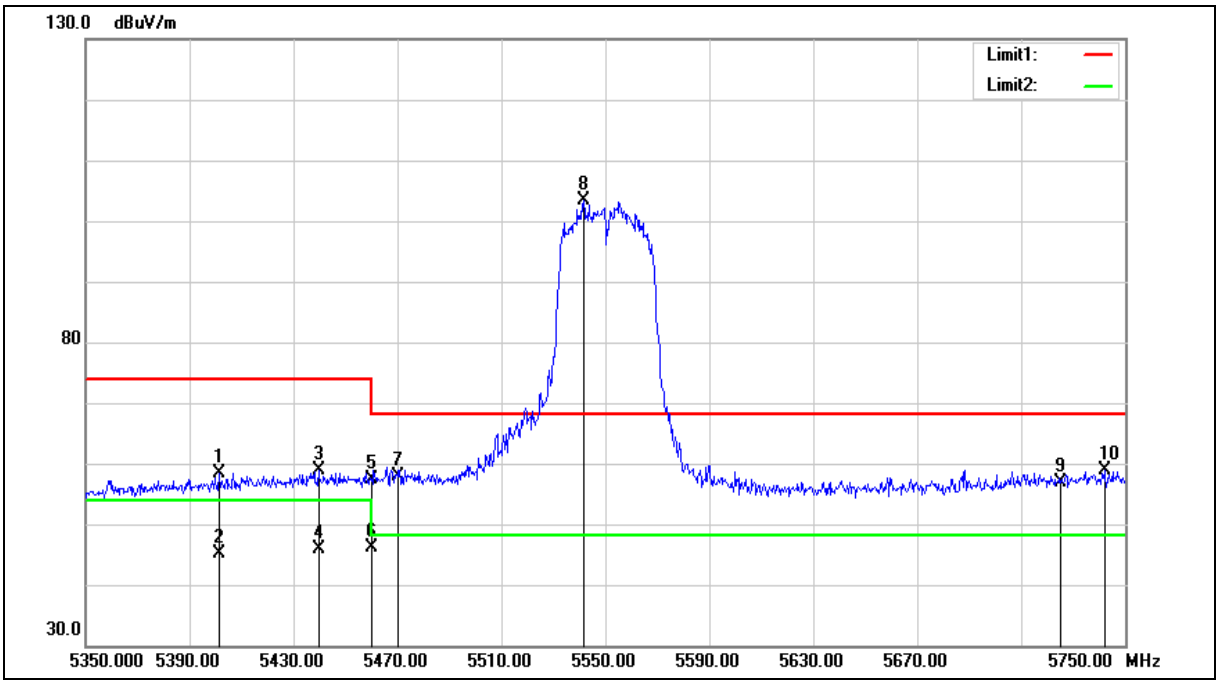
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5396.000	51.88	7.49	59.37	74.00	-14.63	peak
2	5396.000	37.65	7.49	45.14	54.00	-8.86	AVG
3	5430.400	51.51	7.60	59.11	74.00	-14.89	peak
4	5430.400	38.04	7.60	45.64	54.00	-8.36	AVG
5	5460.000	50.52	7.68	58.20	74.00	-15.80	peak
6	5460.000	38.54	7.68	46.22	54.00	-7.78	AVG
7	5470.000	49.59	7.71	57.30	68.20	-10.90	peak
8	5562.800	98.45	7.89	106.34	--	--	peak
9	5725.000	48.76	8.14	56.90	68.20	-11.30	peak
10	5742.400	50.06	8.16	58.22	68.20	-9.98	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5550 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5550 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

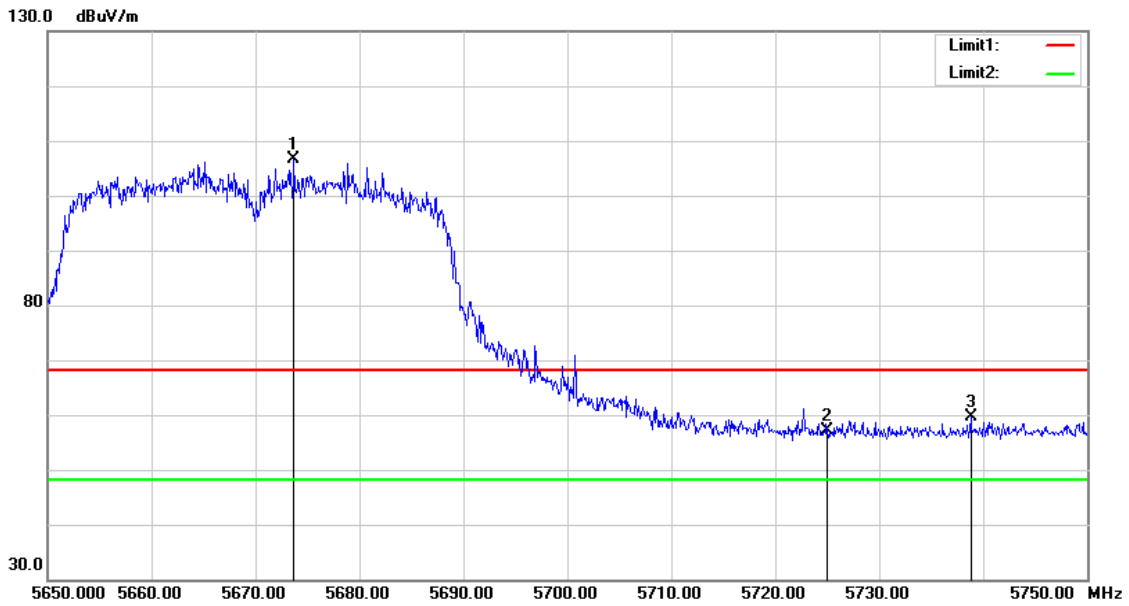
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5401.200	50.90	7.50	58.40	74.00	-15.60	peak
2	5401.200	37.70	7.50	45.20	54.00	-8.80	AVG
3	5439.600	51.14	7.62	58.76	74.00	-15.24	peak
4	5439.600	38.17	7.62	45.79	54.00	-8.21	AVG
5	5460.000	49.60	7.68	57.28	74.00	-16.72	peak
6	5460.000	38.35	7.68	46.03	54.00	-7.97	AVG
7	5470.000	50.29	7.71	58.00	68.20	-10.20	peak
8	5541.600	95.46	7.86	103.32	--	--	peak
9	5725.000	48.71	8.14	56.85	68.20	-11.35	peak
10	5742.000	50.79	8.16	58.95	68.20	-9.25	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5670 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



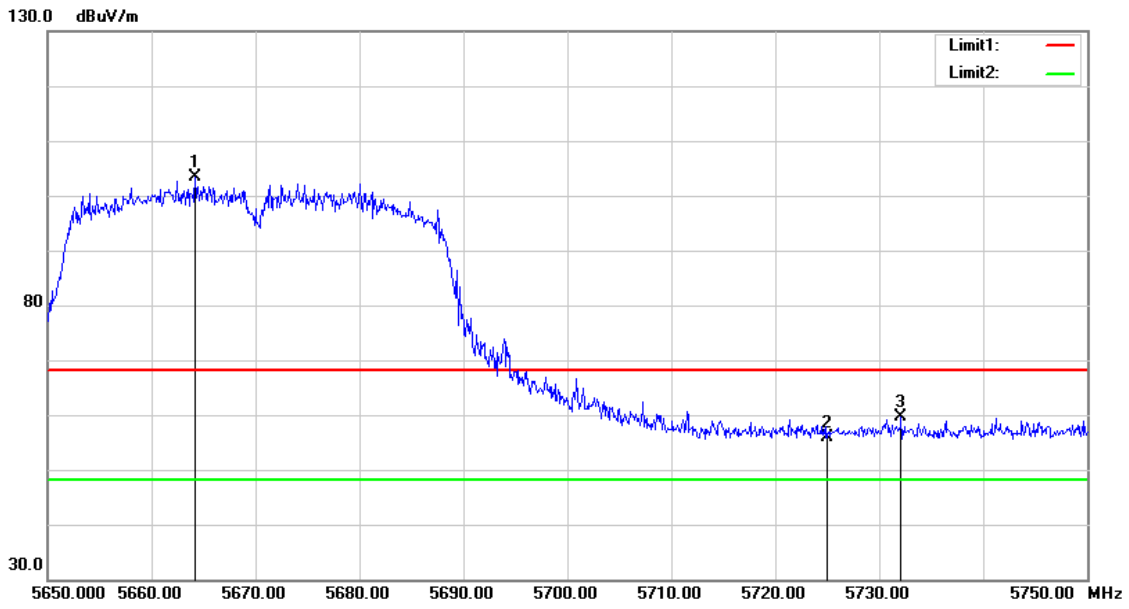
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5673.700	98.58	8.06	106.64	--	--	peak
2	5725.000	49.00	8.14	57.14	68.20	-11.06	peak
3	5738.800	51.43	8.16	59.59	68.20	-8.61	peak

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5670 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



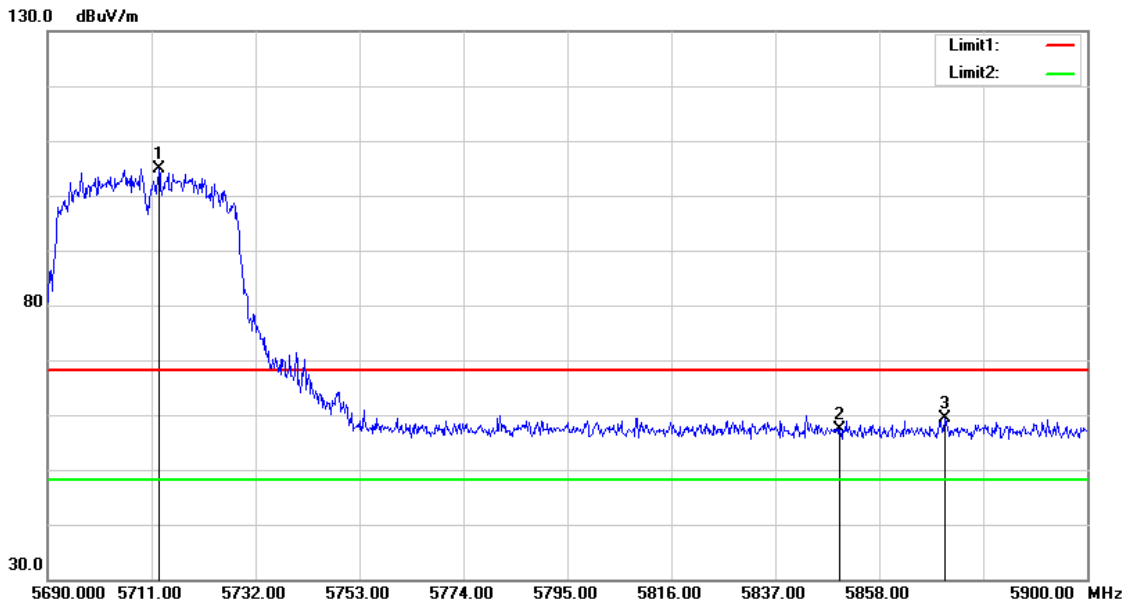
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5664.200	95.42	8.04	103.46	--	--	peak
2	5725.000	47.66	8.14	55.80	68.20	-12.40	peak
3	5732.100	51.51	8.14	59.65	68.20	-8.55	peak

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5710 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



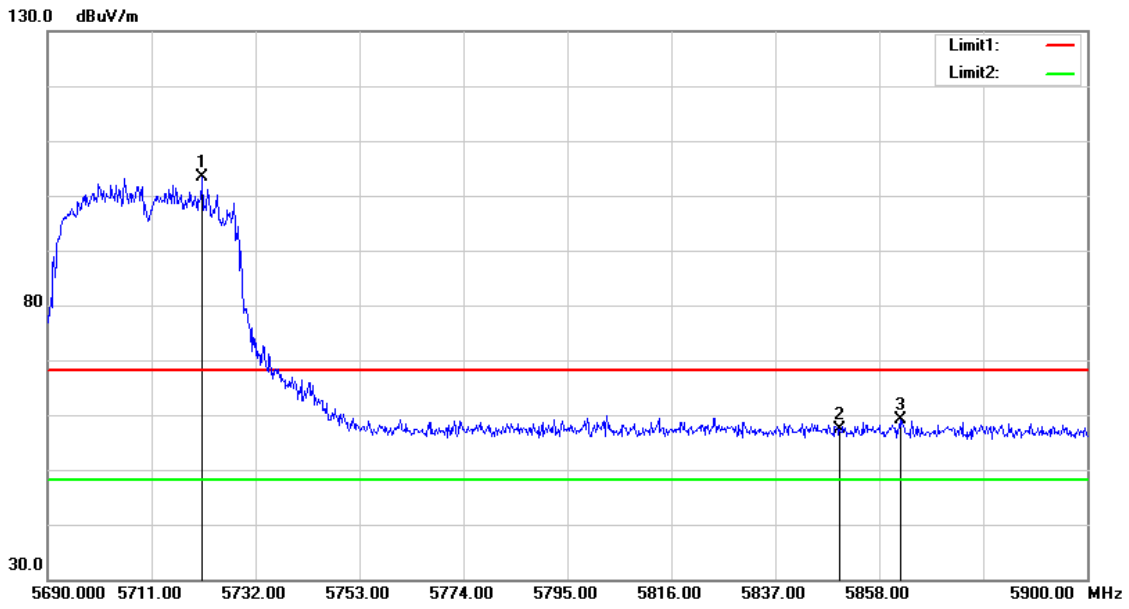
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5712.470	96.88	8.11	104.99	--	--	peak
2	5850.000	48.95	8.32	57.27	68.20	-10.93	peak
3	5871.230	51.09	8.35	59.44	68.20	-8.76	peak

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5710 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



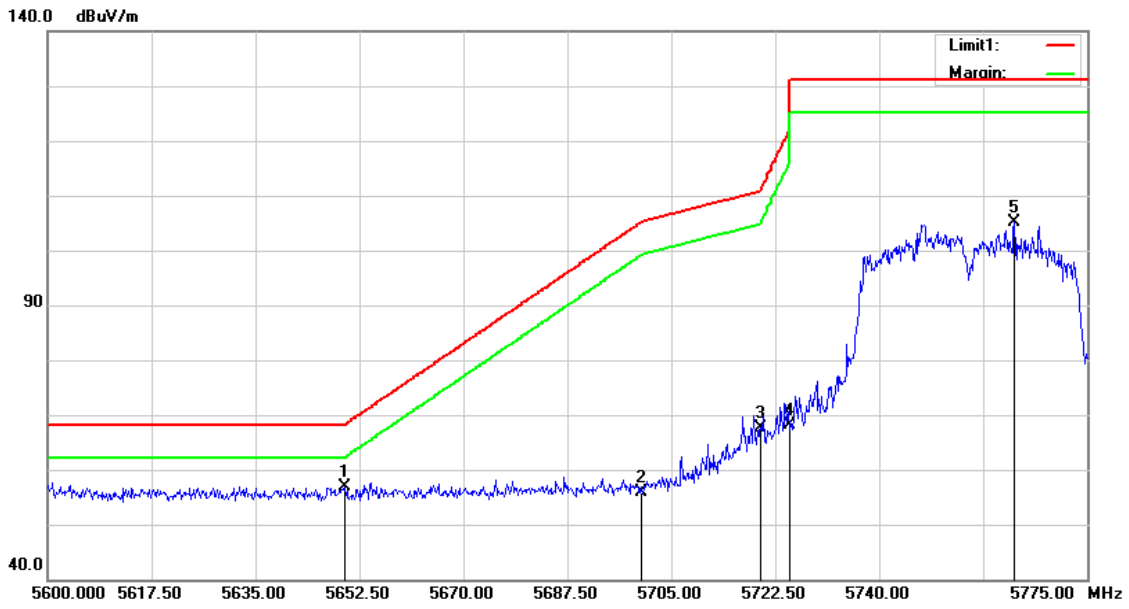
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5721.290	95.14	8.13	103.27	--	--	peak
2	5850.000	49.02	8.32	57.34	68.20	-10.86	peak
3	5862.410	50.79	8.34	59.13	68.20	-9.07	peak

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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5755 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



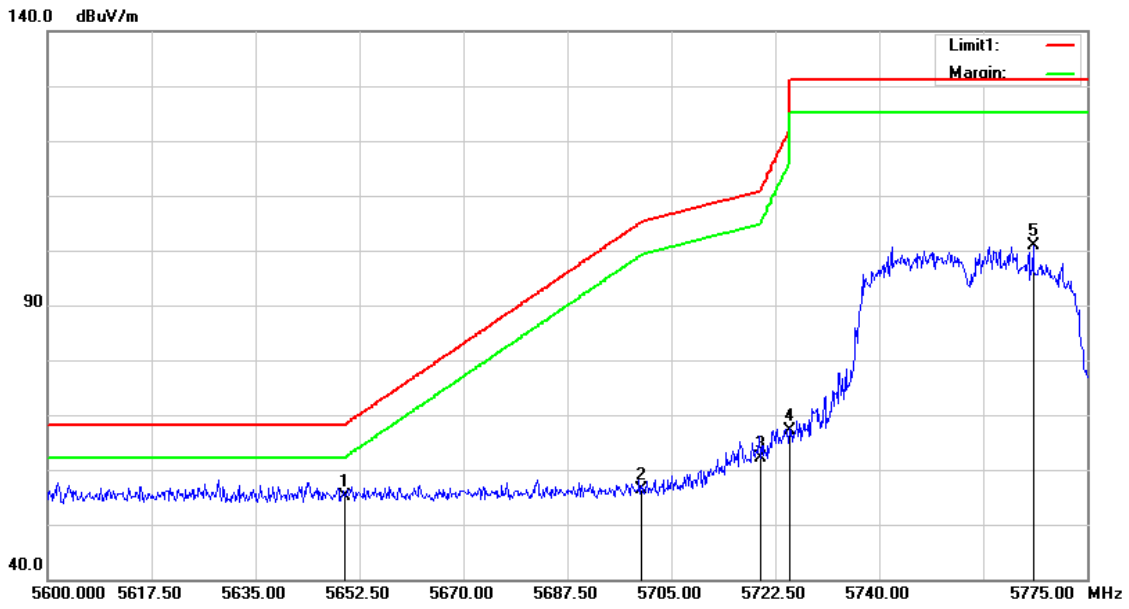
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	48.93	8.03	56.96	68.20	-11.24	peak
2	5700.000	47.77	8.10	55.87	105.20	-49.33	peak
3	5720.000	59.42	8.13	67.55	110.80	-43.25	peak
4	5725.000	59.91	8.14	68.05	122.20	-54.15	peak
5	5762.750	97.02	8.20	105.22	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5755 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



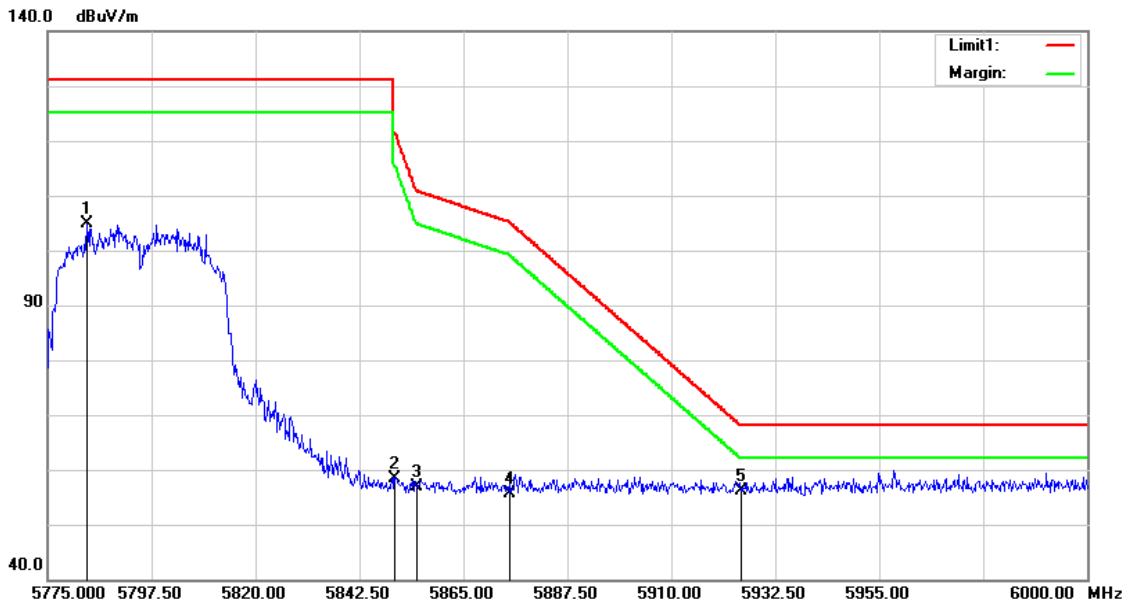
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.05	8.03	55.08	68.20	-13.12	peak
2	5700.000	48.29	8.10	56.39	105.20	-48.81	peak
3	5720.000	53.92	8.13	62.05	110.80	-48.75	peak
4	5725.000	59.02	8.14	67.16	122.20	-55.04	peak
5	5765.900	92.67	8.21	100.88	--	--	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5795 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



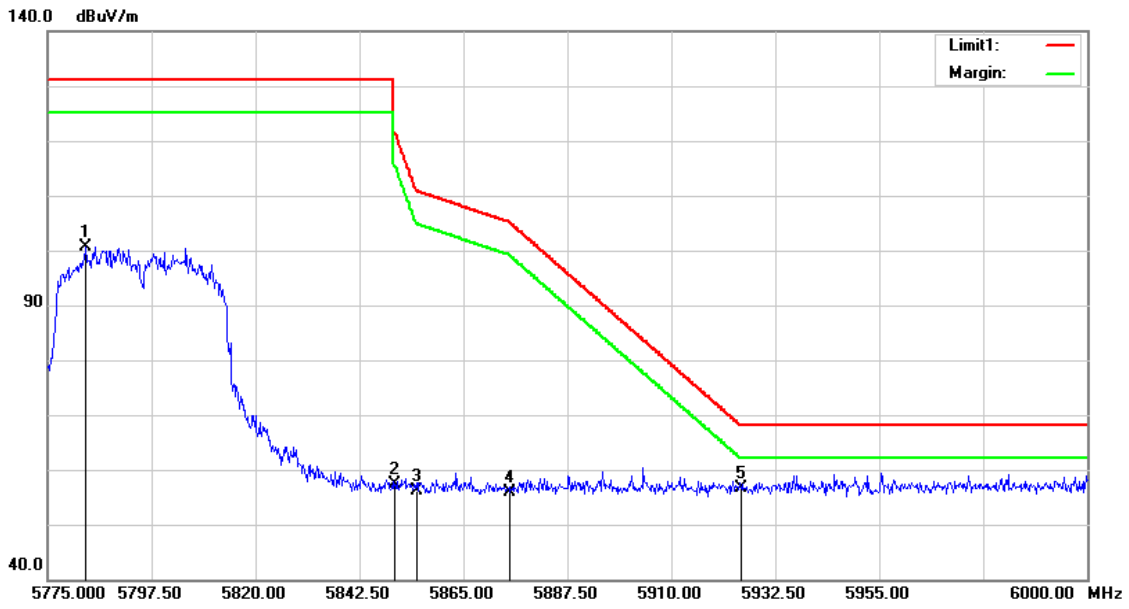
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5783.550	96.57	8.22	104.79	--	--	peak
2	5850.000	50.05	8.32	58.37	122.20	-63.83	peak
3	5855.000	48.56	8.33	56.89	110.80	-53.91	peak
4	5875.000	47.26	8.36	55.62	105.20	-49.58	peak
5	5925.000	47.68	8.44	56.12	68.20	-12.08	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 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 24 V
Frequency:	5795 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/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	5783.325	92.51	8.22	100.73	--	--	peak
2	5850.000	49.07	8.32	57.39	122.20	-64.81	peak
3	5855.000	47.69	8.33	56.02	110.80	-54.78	peak
4	5875.000	47.56	8.36	55.92	105.20	-49.28	peak
5	5925.000	48.07	8.44	56.51	68.20	-11.69	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.