FCC 47 CFR PART 15 SUBPART E

Applicant	:	Emplus Technologies, Inc
Product Type	:	Dual Radio Concurrent AP
Trade Name	:	emplus
Model Number	:	WAP655-C
Test Specification	:	FCC 47 CFR PART 15 SUBPART E ANSI C63.10:2013
Receive Date	:	Apr. 02, 2019
Test Period	:	May 03 ~ Jul. 16, 2019
Issue Date	:	Aug. 06, 2019

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade District,
Taoyuan City 33465, Taiwan (R.O.C.)
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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	Jul. 25, 2019	Initial Issue	Nina Lin
01	Aug. 06, 2019	Page 5 Revised Summary of Test Result. Page 30 ~31 Revised Maximum Conducted Output Power Measurement & Additional Rule For Outdoor Operation. Page 210 ~211、213 Add Max_EIRP at any elevation angle > 30° form horizon data.	Nina Lin

Verification of Compliance

Issued Date: Aug. 06, 2019

Applicant	:	Emplus Technologies, Inc
Product Type	:	Dual Radio Concurrent AP
Trade Name	:	emplus
Model Number	:	WAP655-C
FCC ID	:	2AL6XWAP655
EUT Rated Voltage	:	DC 54 V, 0.6 A
Test Voltage	:	120 Vac / 60 Hz
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)

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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 & Additional Rule For Outdoor Operation	PASS	---
15.407(a)	26 dB RF Bandwidth & 99 % Occupied 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	Emplus Technologies, Inc Bld B, 10F, No.209 Nangang Rd., Taipei City, Taiwan				
Manufacturer	Emplus Technologies, Inc Bld B, 10F, No.209 Nangang Rd., Taipei City, Taiwan				
Product Type	Dual Radio Concurrent AP				
Trade Name	emplus				
Model No.	WAP655-C				
FCC ID	2AL6XWAP655				
Operate Frequency	Frequency Band		Frequency Range (MHz)	Number of Channels	
	IEEE 802.11a	U-NII Band I	5180 – 5240	3	
		U-NII Band III	5745 – 5825	3	
	IEEE 802.11n 5 GHz 20 MHz / IEEE 802.11ac 20 MHz	U-NII Band I	5180 – 5240	3	
		U-NII Band III	5745 – 5825	3	
	IEEE 802.11n 5 GHz 40 MHz / IEEE 802.11ac 40 MHz	U-NII Band I	5190 – 5230	2	
		U-NII Band III	5755 – 5795	2	
	IEEE 802.11ac 80 MHz	U-NII Band I	5210	1	
		U-NII Band III	5775	1	
Modulation Type	OFDM				
Equipment Type	Master				
Antenna information	Antenna	Model	Type	Max. Gain (dBi)	
	ANT-0	5718A0382300	Metal PIFA Antenna	U-NII Band I	5.28
				U-NII Band III	4.85
	ANT-1	5718A0382300	Metal PIFA Antenna	U-NII Band I	5.70
				U-NII Band III	4.46
Antenna Delivery	Reference section 3.1				
Operate Temp. Range	-20 ~ +65 ℃				

Frequency Band		RF Output Power (W)
IEEE 802.11a	U-NII Band I	0.034
	U-NII Band III	0.247
IEEE 802.11n 5 GHz 20 MHz	U-NII Band I	0.034
	U-NII Band III	0.249
IEEE 802.11n 5 GHz 40 MHz	U-NII Band I	0.033
	U-NII Band III	0.201
IEEE 802.11ac 20 MHz	U-NII Band I	0.034
	U-NII Band III	0.253
IEEE 802.11ac 40 MHz	U-NII Band I	0.033
	U-NII Band III	0.205
IEEE 802.11ac 80 MHz	U-NII Band I	0.031
	U-NII Band III	0.195

Beamforming on

Frequency Band		RF Output Power (W)
IEEE 802.11ac 20 MHz	U-NII Band I	0.016
	U-NII Band III	0.116
IEEE 802.11ac 40 MHz	U-NII Band I	0.015
	U-NII Band III	0.094
IEEE 802.11ac 80 MHz	U-NII Band I	0.014
	U-NII Band III	0.089

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

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
Mode 5: IEEE 802.11ac 20 MHz Continuous TX mode
Mode 6: IEEE 802.11ac 40 MHz Continuous TX mode
Mode 7: IEEE 802.11ac 80 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: Investigation has been done on all the possible configurations for searching the worst cases (VHT20/VHT40 covers HT20/HT40). The table is a list of the test modes show in this test report.

Test Mode	ANT-0	ANT-1	ANT-0+1
Mode 2	V	V	V
Mode 3	V	V	V
Mode 4	V	V	V
Mode 5	V	V	V
Mode 6	V	V	V
Mode 7	V	V	V

Test Mode	Antenna Delivery	Data Rate (Mbps)	Band	Test Channel
Mode 2	2TX (CDD)	6	U-NII Band I	36, 40, 48
			U-NII Band III	149, 157, 165
Mode 3	2TX (STBC)	13	U-NII Band I	36, 40, 48
			U-NII Band III	149, 157, 165
Mode 4	2TX (STBC)	27	U-NII Band I	38, 46
			U-NII Band III	151,159
Mode 5	2TX (STBC/Beamforming on)	13	U-NII Band I	36, 40, 48
			U-NII Band III	149, 157, 165
Mode 6	2TX (STBC/Beamforming on)	27	U-NII Band I	38, 46
			U-NII Band III	151,159
Mode 7	2TX (STBC/Beamforming on)	58.6	U-NII Band I	42
			U-NII Band III	155

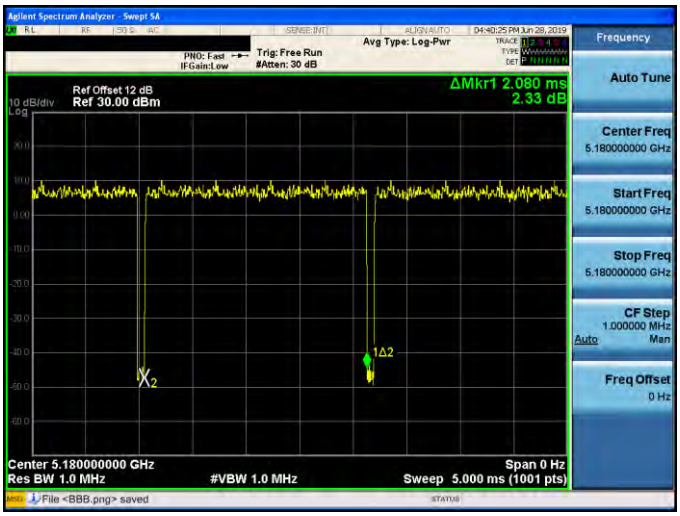
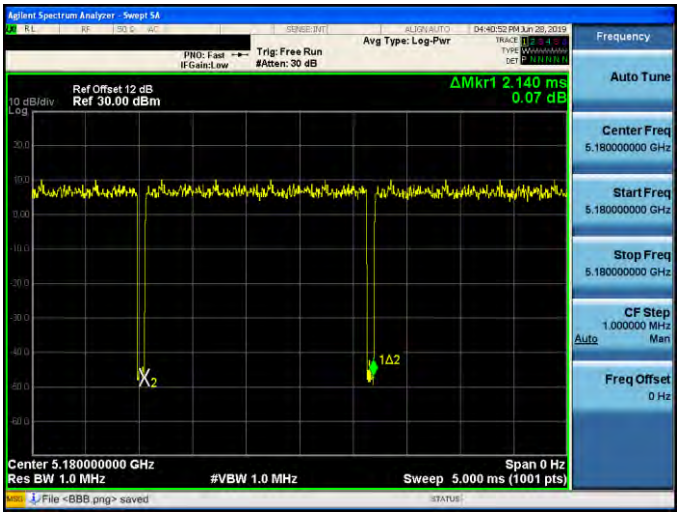
Duty cycle

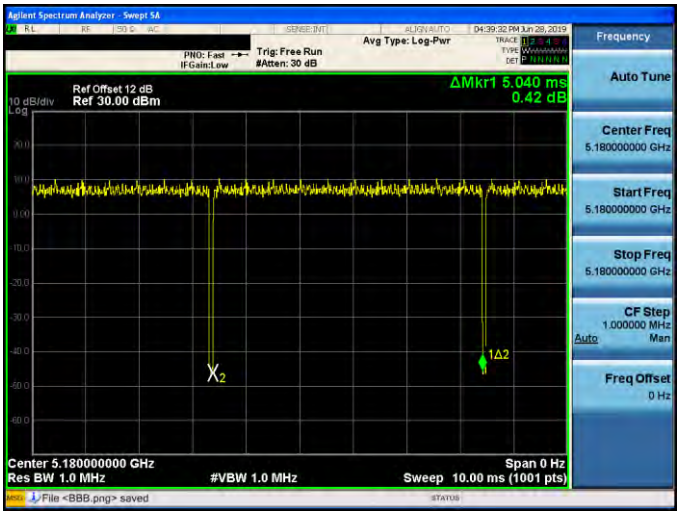
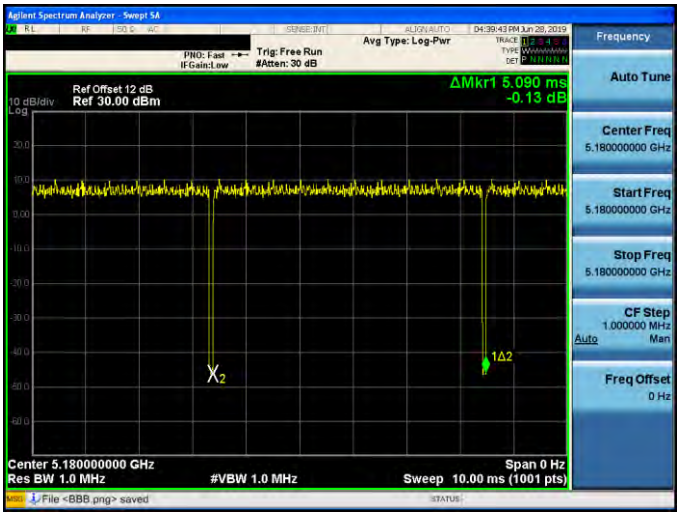
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2	5180.0	2.080	2.140	0.972	0.124	0.481
Mode 5	5180.0	5.040	5.090	0.990	0.043	0.010
Mode 6	5190.0	2.440	2.510	0.972	0.123	0.410
Mode 7	5210.0	1.160	1.230	0.943	0.254	0.862

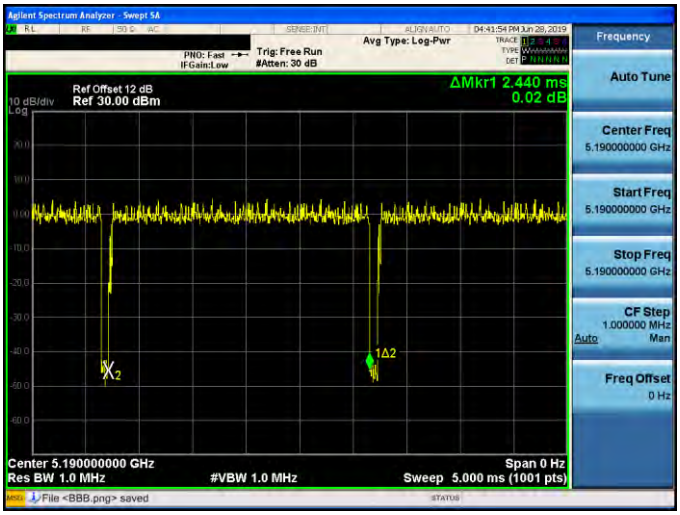
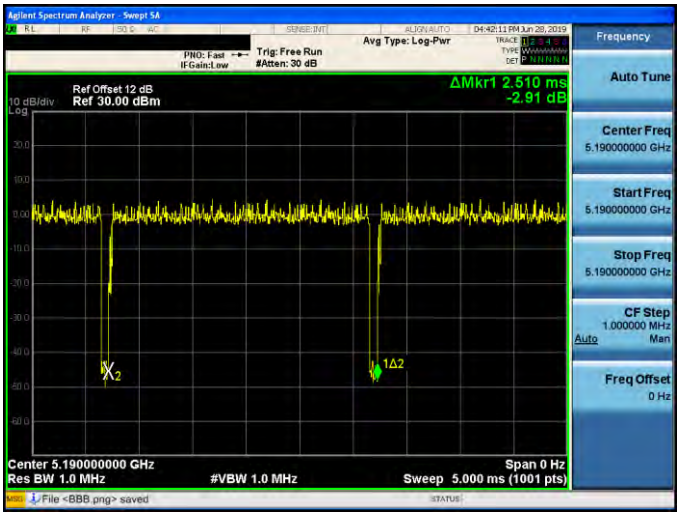
Beamforming on

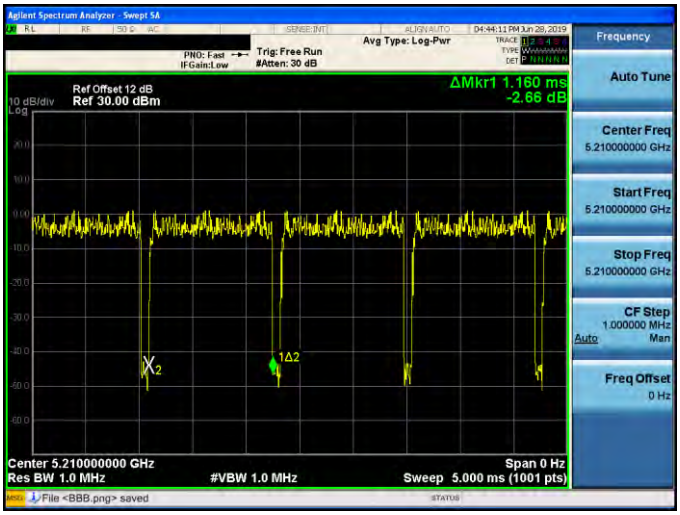
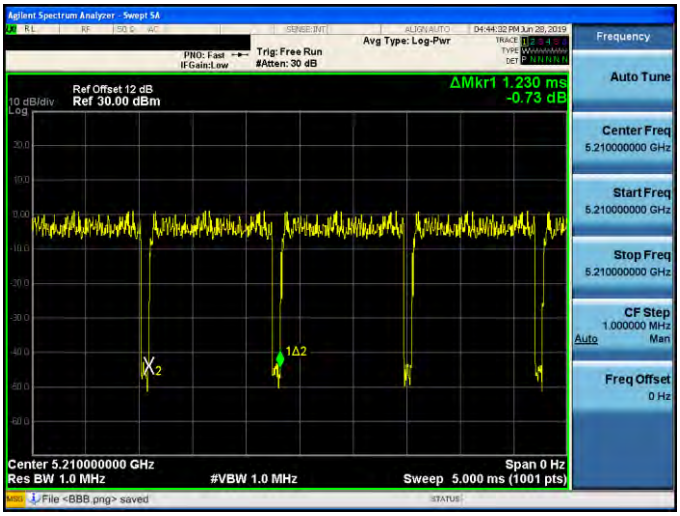
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 5	5180.0	5.040	5.090	0.990	0.043	0.010
Mode 6	5190.0	2.440	2.510	0.972	0.123	0.410
Mode 7	5210.0	1.160	1.230	0.943	0.254	0.862

Duty Cycle Graphs

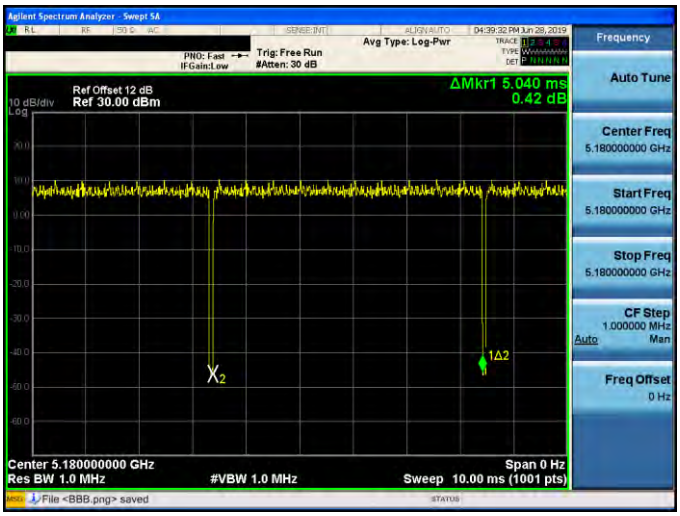
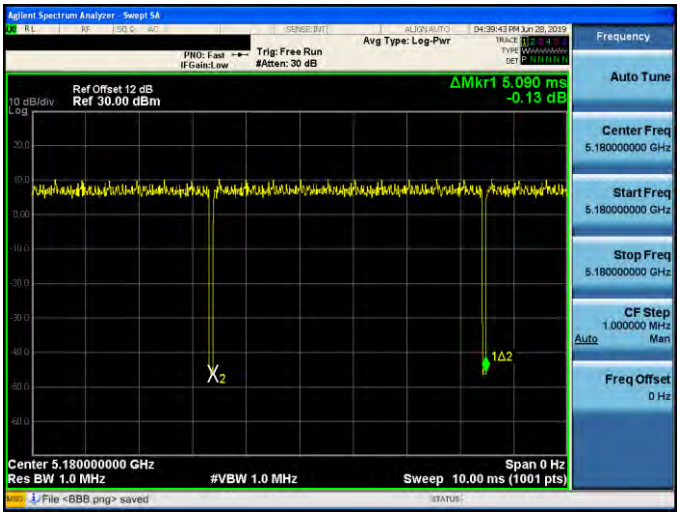
Mode 2: IEEE 802.11a Continuous TX mode	
On time	
On+off time	

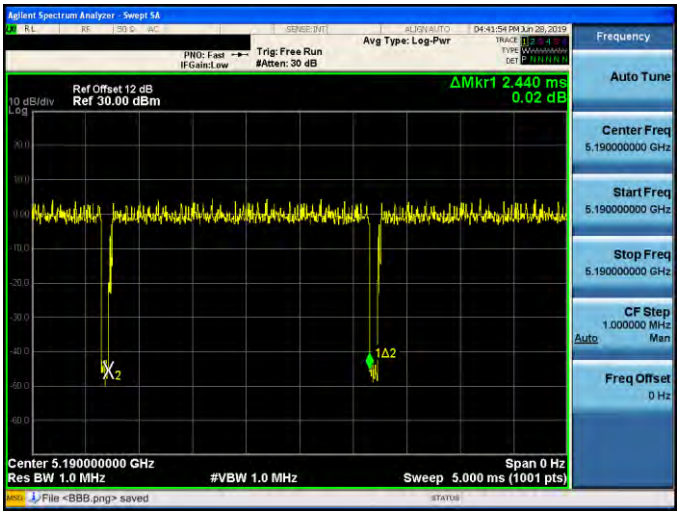
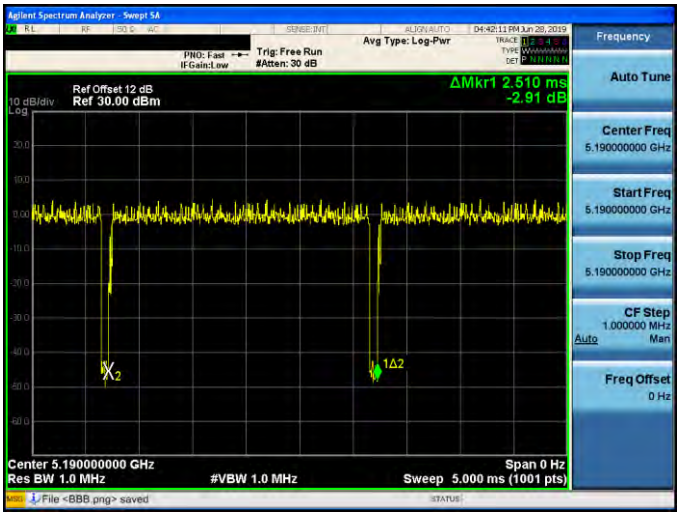
Mode 5: IEEE 802.11ac 20 MHz Continuous TX mode	
On time	
On+off time	

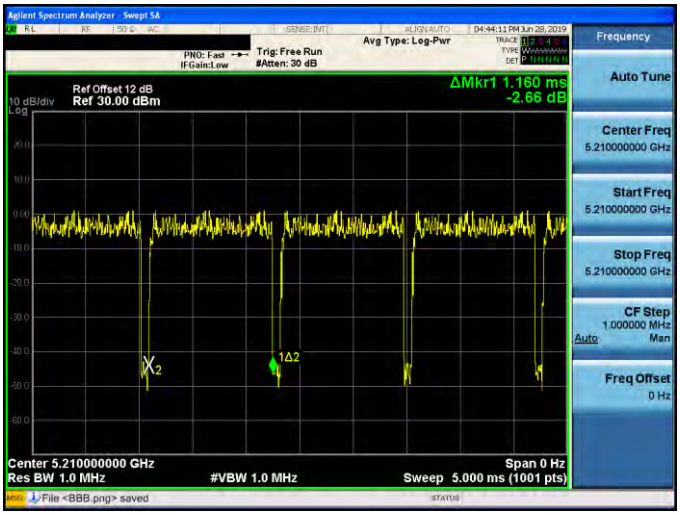
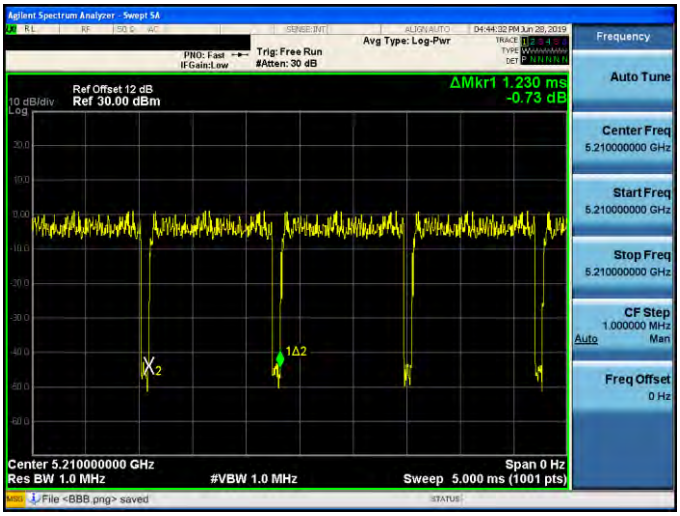
Mode 6: IEEE 802.11ac 40 MHz Continuous TX mode	
On time	
On+off time	

Mode 7: IEEE 802.11ac 80 MHz Continuous TX mode	
On time	
On+off time	

Beamforming on

Mode 5: IEEE 802.11ac 20 MHz Continuous TX mode	
On time	
On+off time	

Mode 6: IEEE 802.11ac 40 MHz Continuous TX mode	
On time	
On+off time	

Mode 7: IEEE 802.11ac 80 MHz Continuous TX mode	
On time	
On+off time	

3.2. EUT Test Step

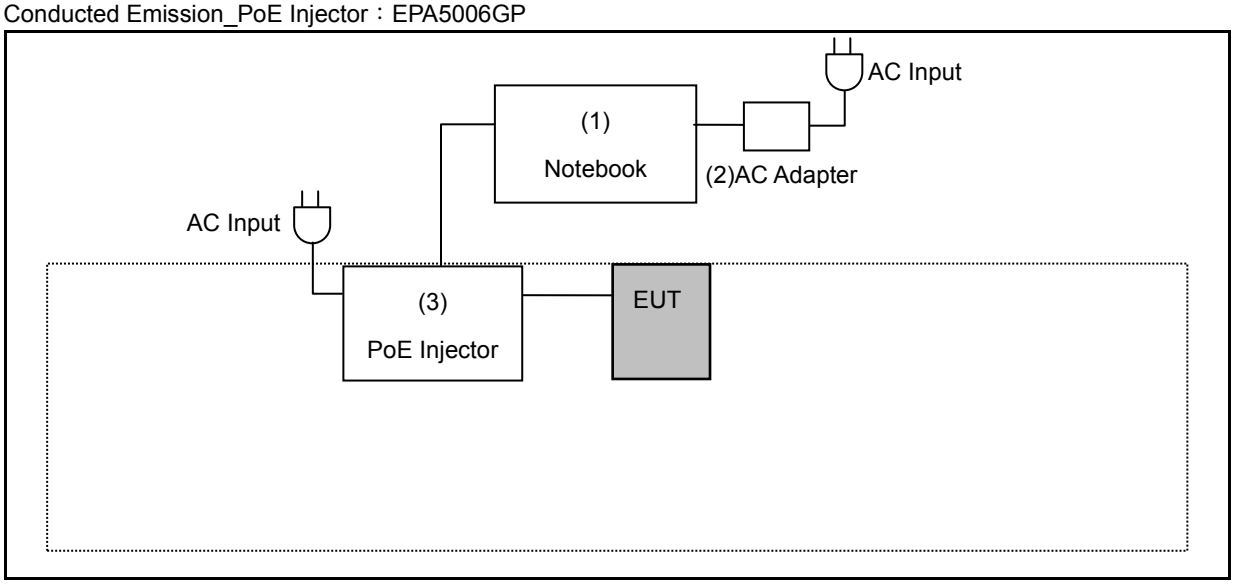
The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement. According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

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.

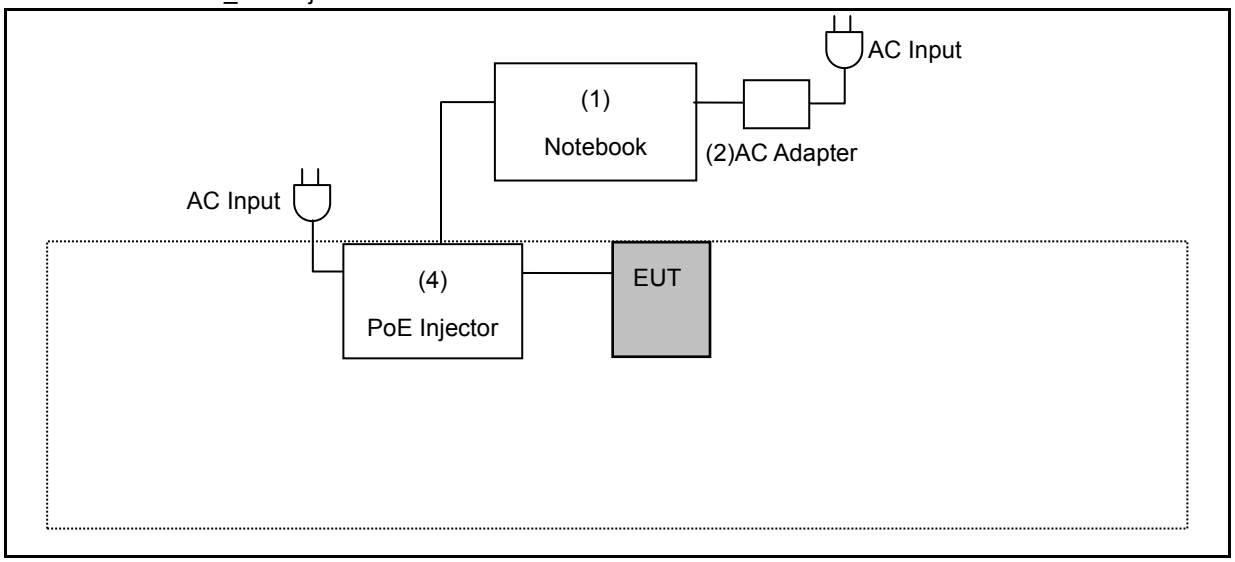
Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

3.3. Configuration of Test System Details

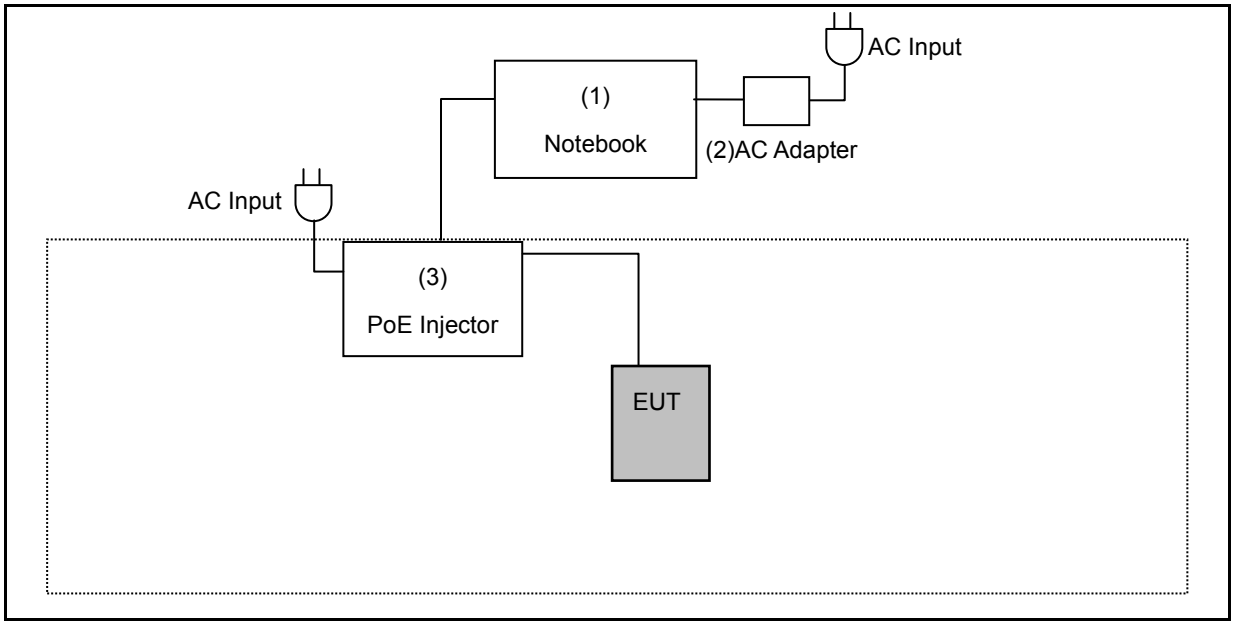
Conducted Emission_PoE Injector：EPA5006GP



Conducted Emission_PoE Injector：EPA5006GAT



Radiated Emission



Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	DELL	LATITUDE E6440	5HZBD72	---
(2)	AC Adapter	DELL	HA65NM130	---	Non-Shielded, 0.8 m
(3)	PoE Injector	emplus	EPA5006GP	---	---
(4)	PoE Injector	emplus	EPA5006GAT	---	---

Note：The device used two models of PoE Injector, PoE Injector number: EPA5006GP is worst case to perform testing.

3.4. Test Instruments

For Conducted Emission
Test Period: Jul. 16, 2019

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	05/21/2019	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: May 03 ~ Jun. 25, 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	08/23/2018	1 year
Broadband Antenna	Schwarzbeck	VULB9168	416	10/19/2018	1 year
Horn Antenna (1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	08/23/2018	1 year
Horn Antenna (18~40 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	08/07/2018	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: Jun. 28 ~ Jul. 01, 2019

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Power Sensor	Anritsu	MA2411B	1126022	08/29/2018	1 year
Power Meter	Anritsu	ML2495A	1135009	08/29/2018	1 year
Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	01/22/2019	1 year

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

3.5. Test Site Environment

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

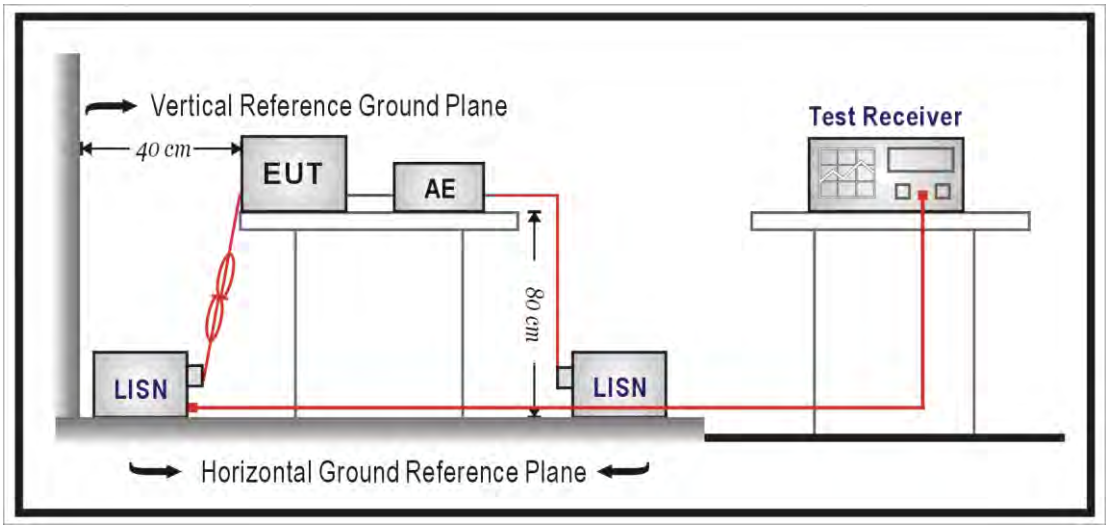
4 Measurement Procedure

4.1. AC Power 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

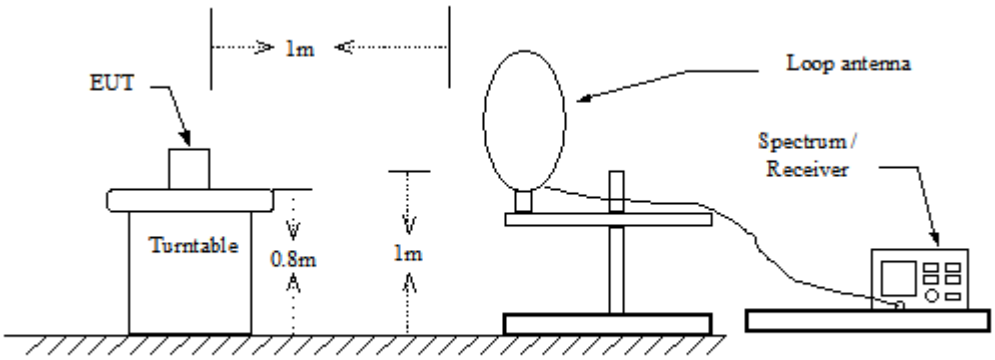
Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

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

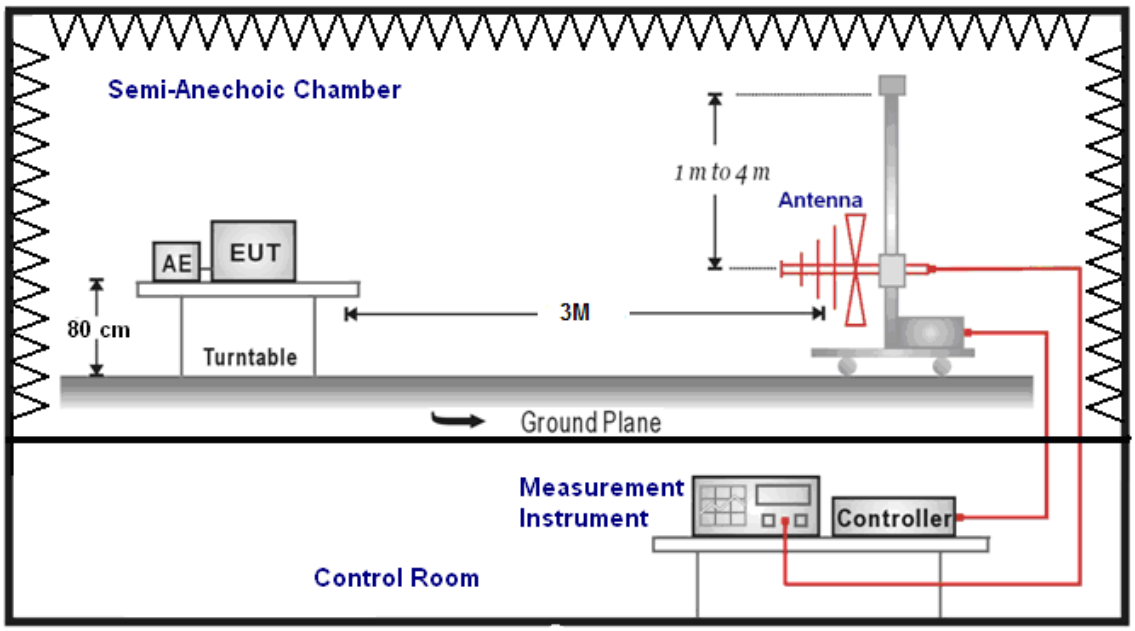
Note: 1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed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

■ **Setup**

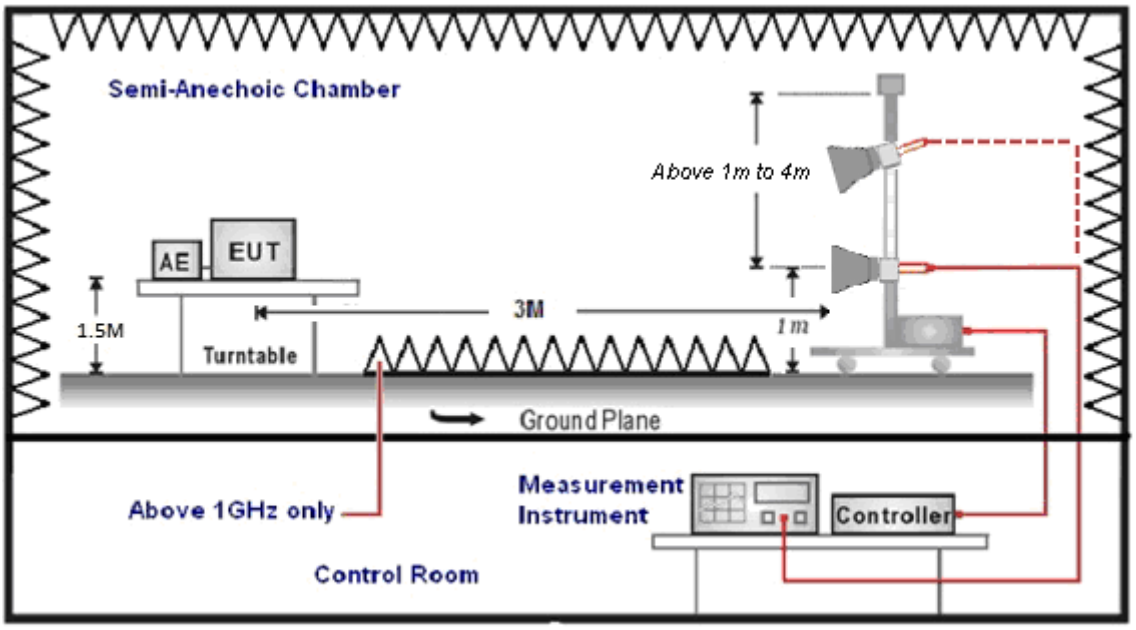
9 kHz ~ 30 MHz



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 & Additional Rule For Outdoor Operation

■ **Limit**

Frequency Range (MHz)	FCC Maximum Conducted Output Power Limit	Max_EIRP at any elevation angle > 30° form horizon
	Master	Outdoor AP Operation
5.150 ~ 5.250 GHz	The lesser of 1W (30dBm)	< 125 mW(21 dBm)
5.725 ~ 5.850 GHz	The lesser of 1W (30dBm)	NA

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

CDD/STBC mode

∗ Directional Gain = 10*log{[10^(G1/10)+10^(G2/10)+…+10^(Gn/10)]/NANT} = 5.50 dBi < 6 dBi (5.150 ~ 5.250 GHz)

∗ Directional Gain = 10*log{[10^(G1/10)+10^(G2/10)+…+10^(Gn/10)]/NANT} = 4.66 dBi < 6 dBi (5.725 ~ 5.850 GHz)

BF mode

(5.150 ~ 5.250 GHz)

∗ Directional Gain = 10*log{[10^(G1/20)+10^(G2/20)+…+10^(Gn/20)]^2/NANT} = 8.50 dBi > 6 dBi

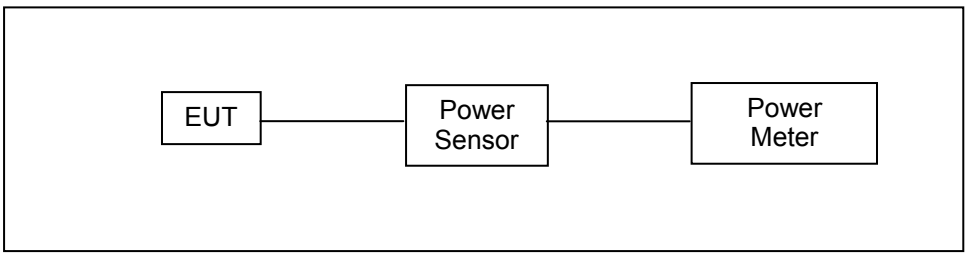
∗ Power limit shall be reduced = 30 – 2.5 = 27.50 dBm

(5.725 ~ 5.850 GHz)

∗ Directional Gain = 10*log{[10^(G1/20)+10^(G2/20)+…+10^(Gn/20)]^2/NANT} = 7.67 dBi > 6 dBi

∗ Power limit shall be reduced = 30 – 1.76 = 28.33 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)

EIRP evaluation according to 789033 D02 General UNII Test Procedures New Rules v02r01 H.(1)(b)
Antenna measurement results such as antenna report presentation.
H. Measurement of emission at elevation angle higher than 30° from horizon
1. For fixed infrastructure, not electrically or mechanically steerable beam antenna

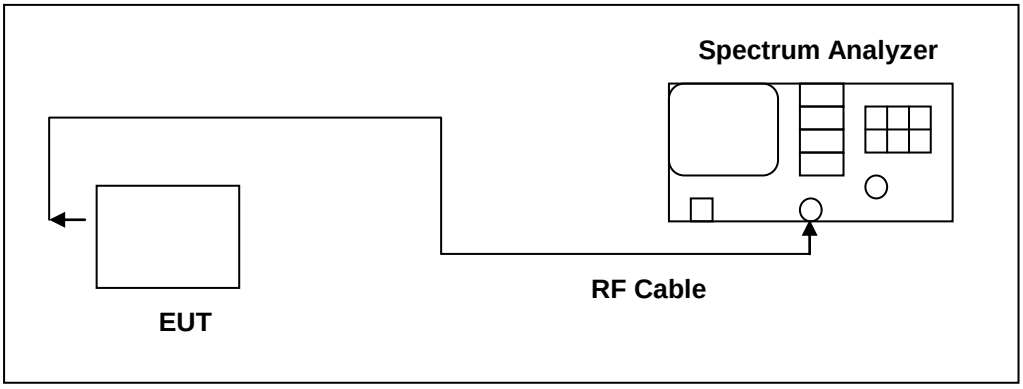
b) If elevation plane radiation pattern is not available, but the antenna type (such as dipole omnidirectional, Yagi, parabolic, or sector antenna) has symmetrical elevation plane pattern referenced at main beam and all lobes on the main beam elevation plane have highest gains, then the following measurement method is acceptable to determine compliance:
(i) Determine the device's intended mounting elevation angle referenced to the horizon.
(ii) Rotate EUT antenna by 90° around the main beam axis in horizontal position to transform measurement in elevation angle into azimuth angle and define 0° reference angle based on device's intended mounting elevation angle.
(iii) Move test antenna along the horizontal arc, or rotate the turn table with EUT antenna placed at the center, between 30° and 90° relative to the 0° reference angle, and then continuing down from 90° to 30° on the other side of the pattern, while maintaining the test antenna pointing with constant distance to the EUT antenna and search for the spot which
has the highest measured emission. Both horizontal and vertical polarization shall be investigated to find out the maximum radiated emission level.
Note: Moving of test antenna along the horizontal arc, or rotating the turn table, shall be performed in angular step size as small as possible, but not larger than 3°.
(iv) Calculate the EIRP based on the highest measured emission and compare to the limit of 125 mW to determine compliance.
(v) The antenna pattern measurements should be included in the filing.

4.4. 26 dB RF Bandwidth Measurement & 99 % Occupied Bandwidth Measurement

■ **Limit**

N/A

■ **Test Setup**



■ **Test Procedure**

The test is performed in accordance with ANSI C63.10:2013 section 12.4, 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

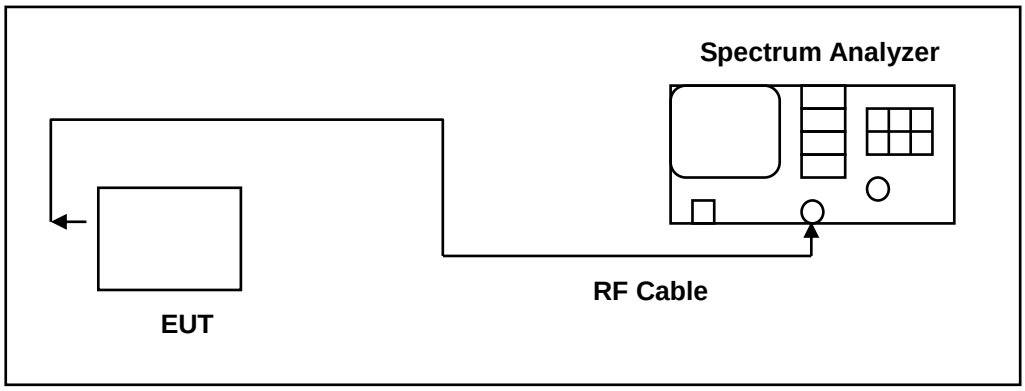
4.5. 6 dB RF Bandwidth Measurement

■ **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
	Master
5.150 ~ 5.250 GHz	17 dBm/MHz
5.725 ~ 5.850 GHz	30 dBm/500 kHz

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

CDD/BF mode：

(5.150 ~ 5.250 GHz)

＊ Directional Gain = 10*log{[10^(G1/20)+10^(G2/20)+…+10^(Gn/20)]^2/NANT} = 8.5 dBi > 6 dBi

＊ Power spectral density limit shall be reduced = 17 – 2.5 = 14.50 dBm/MHz

(5.725 ~ 5.850 GHz)

＊ Directional Gain = 10*log{[10^(G1/20)+10^(G2/20)+…+10^(Gn/20)]^2/NANT} = 7.67 dBi > 6 dBi

＊ Power spectral density limit shall be reduced = 30 – 1.67 = 28.33 dBm/MHz

STBC mode：

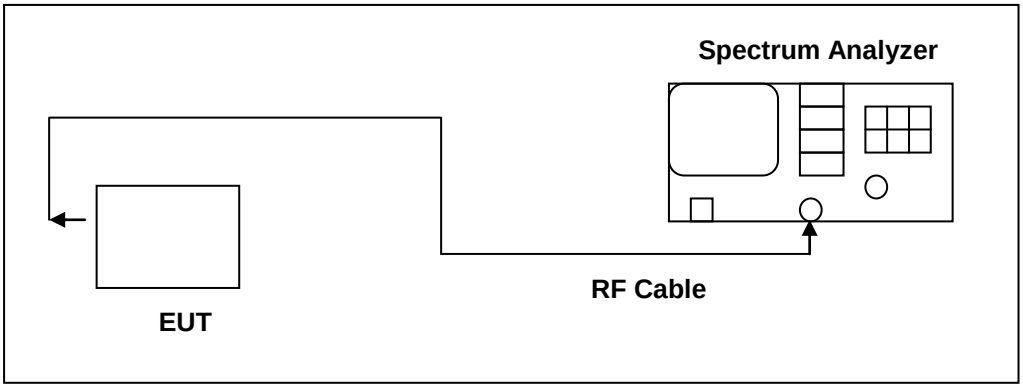
(5.150 ~ 5.250 GHz)

＊ Directional Gain = 10*log{[10^(G1/10)+10^(G2/10)+…+10^(Gn/10)]/NANT} = 5.50 dBi < 6 dBi

(5.725 ~ 5.850 GHz)

＊ Directional Gain = 10*log{[10^(G1/10)+10^(G2/10)+…+10^(Gn/10)]/NANT} = 4.66 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**

For Maximum Conducted Output Power

Operate Freq. Band		Directional Gain (dBi)
IEEE 802.11a	U-NII Band I	5.50
	U-NII Band III	4.66
IEEE 802.11n 5 GHz 20 MHz	U-NII Band I	5.50
	U-NII Band III	4.66
IEEE 802.11n 5 GHz 40 MHz	U-NII Band I	5.50
	U-NII Band III	4.66
IEEE 802.11ac 20 MHz	U-NII Band I	5.50
	U-NII Band III	4.66
IEEE 802.11ac 40 MHz	U-NII Band I	5.50
	U-NII Band III	4.66
IEEE 802.11ac 80 MHz	U-NII Band I	5.50
	U-NII Band III	4.66

For Peak Power Spectral Density

Operate Freq. Band		Directional Gain (dBi)
IEEE 802.11a	U-NII Band I	8.50
	U-NII Band III	7.67
IEEE 802.11ac 20 MHz	U-NII Band I	5.50
	U-NII Band III	4.66
IEEE 802.11ac 40 MHz	U-NII Band I	5.50
	U-NII Band III	4.66
IEEE 802.11ac 80 MHz	U-NII Band I	5.50
	U-NII Band III	4.66

Beamforming on

For Maximum Conducted Output Power

Operate Freq. Band		Directional Gain (dBi)
IEEE 802.11ac 20 MHz	U-NII Band I	8.50
	U-NII Band III	7.67
IEEE 802.11ac 40 MHz	U-NII Band I	8.50
	U-NII Band III	7.67
IEEE 802.11ac 80 MHz	U-NII Band I	8.50
	U-NII Band III	7.67

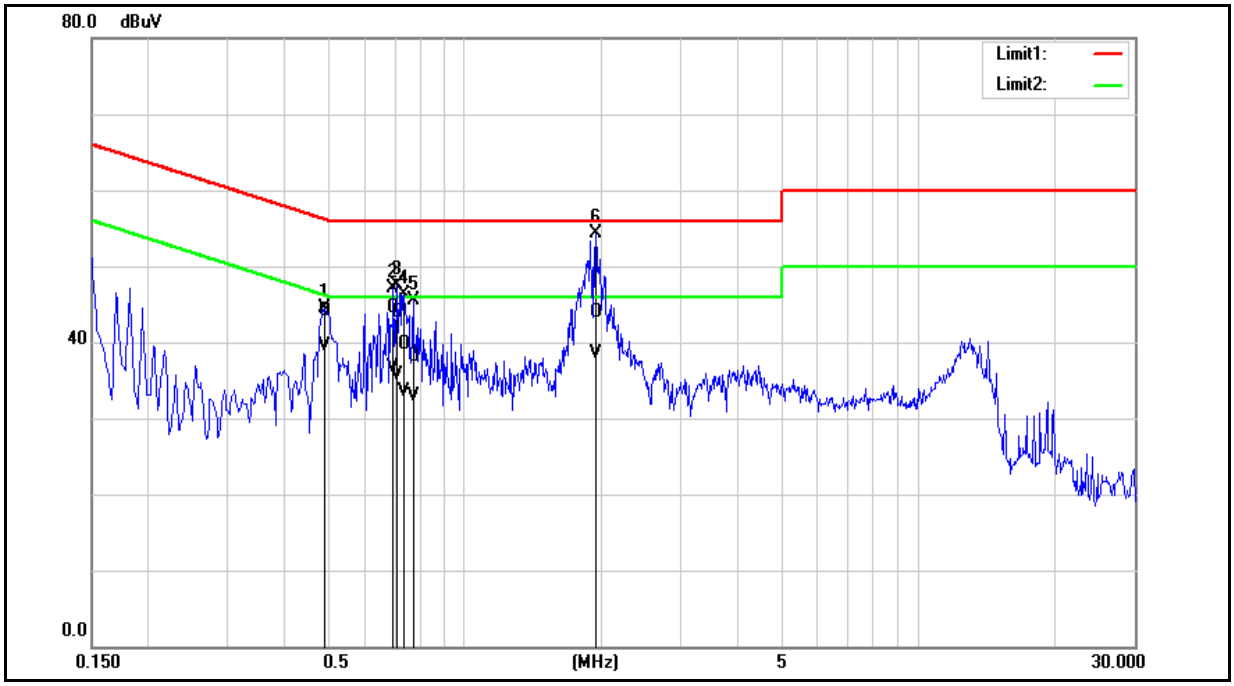
For Peak Power Spectral Density

Operate Freq. Band		Directional Gain (dBi)
IEEE 802.11ac 20 MHz	U-NII Band I	8.50
	U-NII Band III	7.67
IEEE 802.11ac 40 MHz	U-NII Band I	8.50
	U-NII Band III	7.67
IEEE 802.11ac 80 MHz	U-NII Band I	8.50
	U-NII Band III	7.67

5 Test Results

Annex A. Conducted Emission

Standard:	FCC Part 15.407	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Description:	PoE Injector：EPA5006GP		

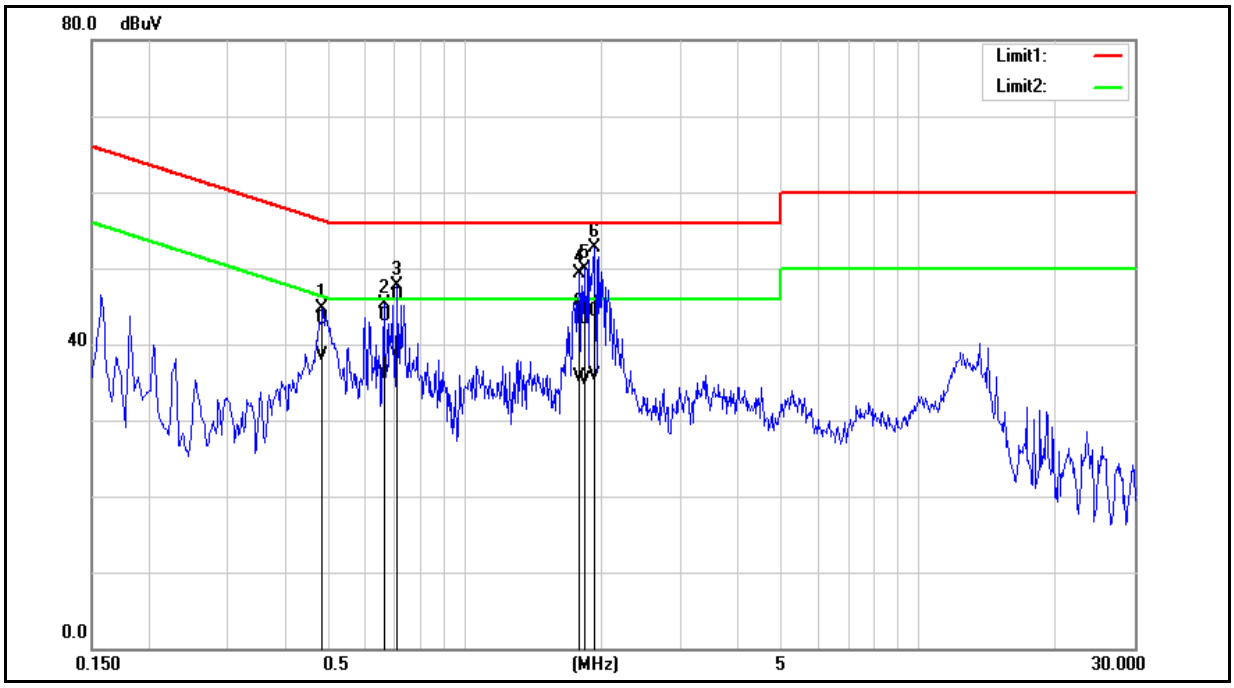


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.4900	34.36	30.77	9.66	44.02	40.43	56.17	46.17	-12.15	-5.74	Pass
2	0.6940	34.77	27.03	9.66	44.43	36.69	56.00	46.00	-11.57	-9.31	Pass
3	0.7100	34.31	26.08	9.67	43.98	35.75	56.00	46.00	-12.02	-10.25	Pass
4	0.7340	30.08	23.92	9.67	39.75	33.59	56.00	46.00	-16.25	-12.41	Pass
5	0.7700	28.40	23.24	9.68	38.08	32.92	56.00	46.00	-17.92	-13.08	Pass
6	1.9420	34.25	28.70	9.72	43.97	38.42	56.00	46.00	-12.03	-7.58	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 120 V/60 Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Description:	PoE Injector：EPA5006GP		

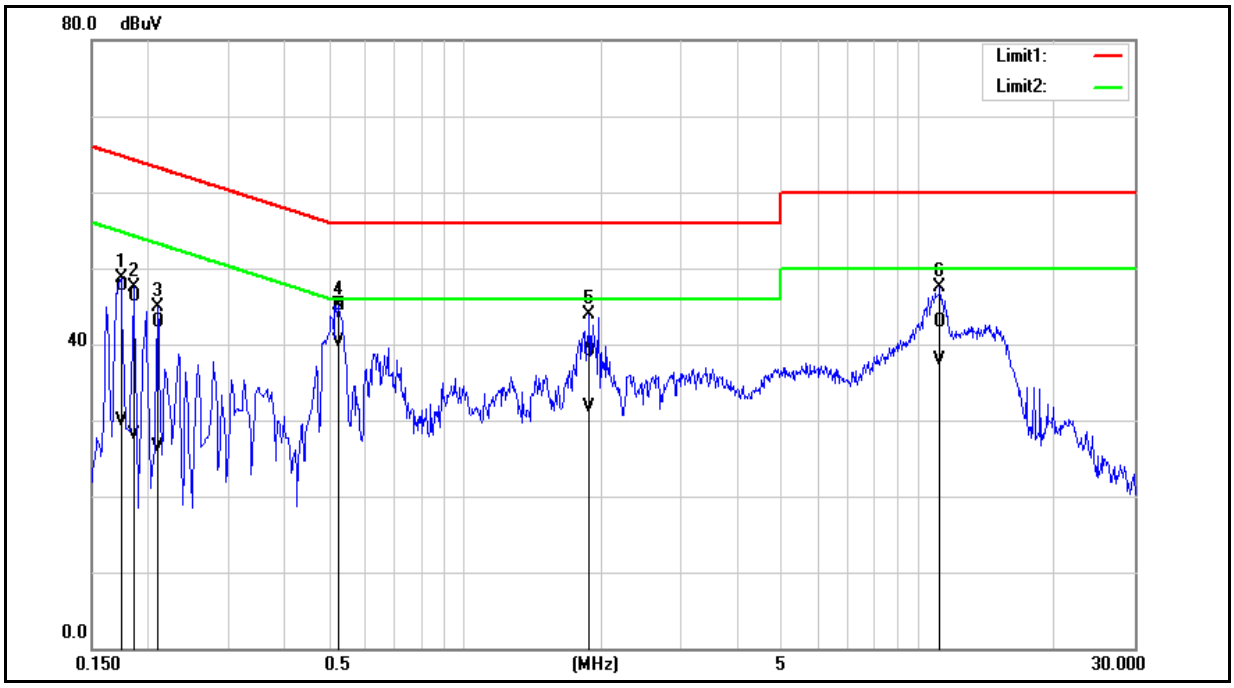


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.4860	33.64	28.84	9.69	43.33	38.53	56.24	46.24	-12.91	-7.71	Pass
2	0.6620	33.97	26.34	9.69	43.66	36.03	56.00	46.00	-12.34	-9.97	Pass
3	0.7060	36.53	28.75	9.69	46.22	38.44	56.00	46.00	-9.78	-7.56	Pass
4	1.7900	35.78	25.87	9.74	45.52	35.61	56.00	46.00	-10.48	-10.39	Pass
5	1.8340	33.60	25.58	9.74	43.34	35.32	56.00	46.00	-12.66	-10.68	Pass
6	1.9340	34.51	26.22	9.75	44.26	35.97	56.00	46.00	-11.74	-10.03	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:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Description:	PoE Injector：EPA5006GAT		



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	0.1740	38.15	20.22	9.65	47.80	29.87	64.77	54.77	-16.97	-24.90	Pass
2	0.1860	36.64	18.55	9.64	46.28	28.19	64.21	54.21	-17.93	-26.02	Pass
3	0.2100	33.34	16.82	9.64	42.98	26.46	63.21	53.21	-20.23	-26.75	Pass
4	0.5260	35.41	29.68	9.66	45.07	39.34	56.00	46.00	-10.93	-6.66	Pass
5	1.8820	29.41	22.00	9.72	39.13	31.72	56.00	46.00	-16.87	-14.28	Pass
6	11.1620	33.08	27.99	9.92	43.00	37.91	60.00	50.00	-17.00	-12.09	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 120 V/60 Hz
Test Mode:	Mode 1	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Description:	PoE Injector：EPA5006GAT		

No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1580	40.62	21.60	9.68	50.30	31.28	65.57	55.57	-15.27	-24.29	Pass
2	0.1780	37.06	17.90	9.67	46.73	27.57	64.58	54.58	-17.85	-27.01	Pass
3	0.1900	35.07	16.44	9.67	44.74	26.11	64.04	54.04	-19.30	-27.93	Pass
4	0.5180	35.07	29.58	9.69	44.76	39.27	56.00	46.00	-11.24	-6.73	Pass
5	1.9260	22.85	16.37	9.75	32.60	26.12	56.00	46.00	-23.40	-19.88	Pass
6	11.1100	31.79	26.45	9.99	41.78	36.44	60.00	50.00	-18.22	-13.56	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 120 V/60 Hz
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Test Mode:	Mode 2		

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
67.8300	31.02	-8.29	22.73	40.00	-17.27	QP	H
104.6900	40.50	-10.32	30.18	43.50	-13.32	QP	H
130.8800	32.42	-7.39	25.03	43.50	-18.47	QP	H
214.3000	31.15	-7.70	23.45	43.50	-20.05	QP	H
305.4800	28.11	-3.95	24.16	46.00	-21.84	QP	H
422.8500	28.38	-1.66	26.72	46.00	-19.28	QP	H
38.7300	42.24	-7.10	35.14	40.00	-4.86	QP	V
87.2300	43.55	-11.97	31.58	40.00	-8.42	QP	V
132.8200	35.62	-7.19	28.43	43.50	-15.07	QP	V
254.0700	31.02	-5.99	25.03	46.00	-20.97	QP	V
349.1300	28.29	-3.21	25.08	46.00	-20.92	QP	V
595.5100	29.10	2.03	31.13	46.00	-14.87	QP	V

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

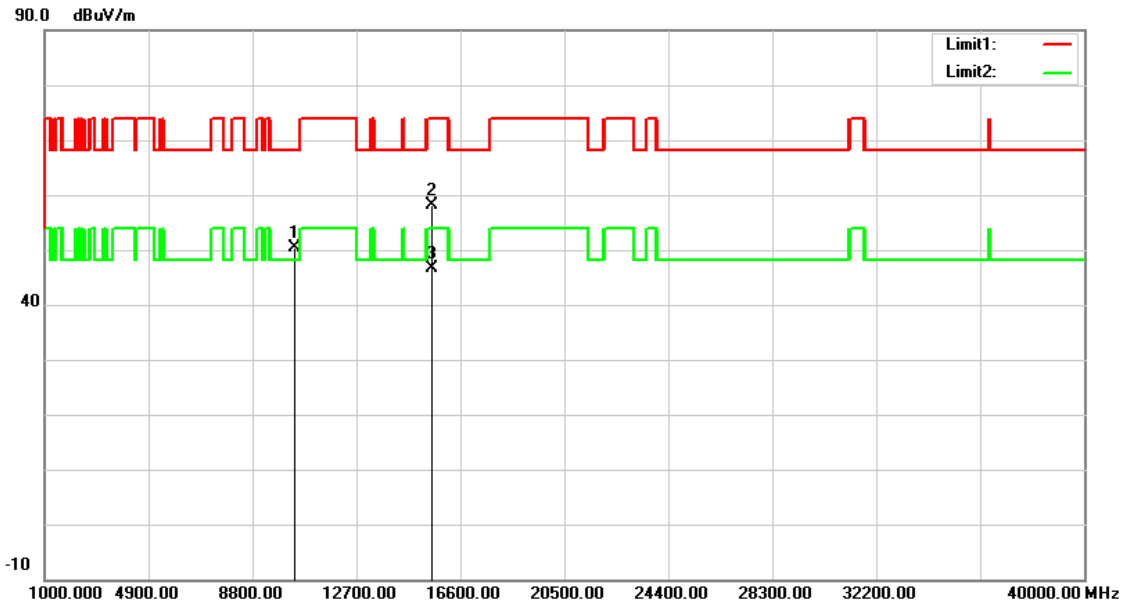
Example: 22.73=-8.29+31.02.

2.Correction factor (dB/m) = Antenna Factor (dB/m) + 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 120 V/60 Hz
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	33.48	16.92	50.40	68.20	-17.80	peak
2	15540.000	38.96	19.18	58.14	74.00	-15.86	peak
3	15540.000	27.38	19.18	46.56	54.00	-7.44	AVG

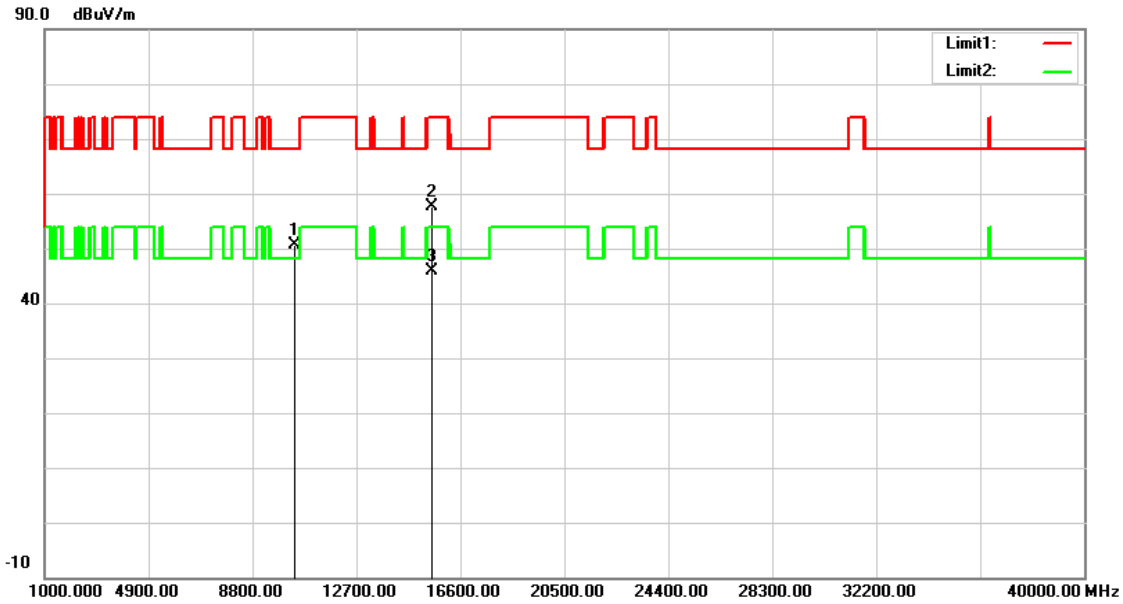
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 50.40=16.92+33.48.

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-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 120 V/60 Hz
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	33.75	16.92	50.67	68.20	-17.53	peak
2	15540.000	38.40	19.18	57.58	74.00	-16.42	peak
3	15540.000	26.77	19.18	45.95	54.00	-8.05	AVG

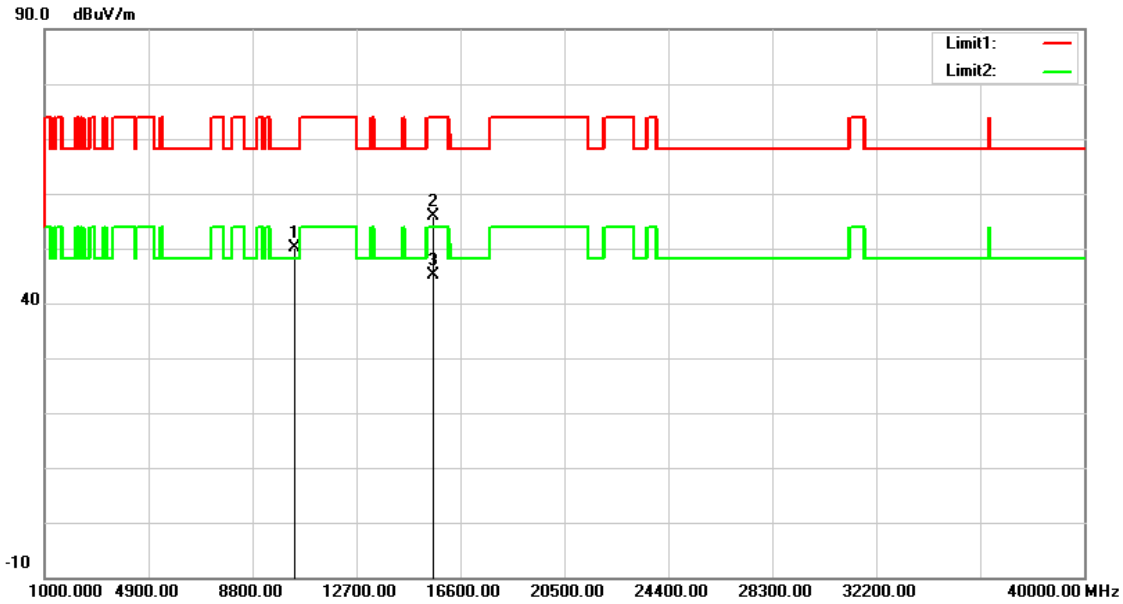
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 50.67=16.92+33.75.

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-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 120 V/60 Hz
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



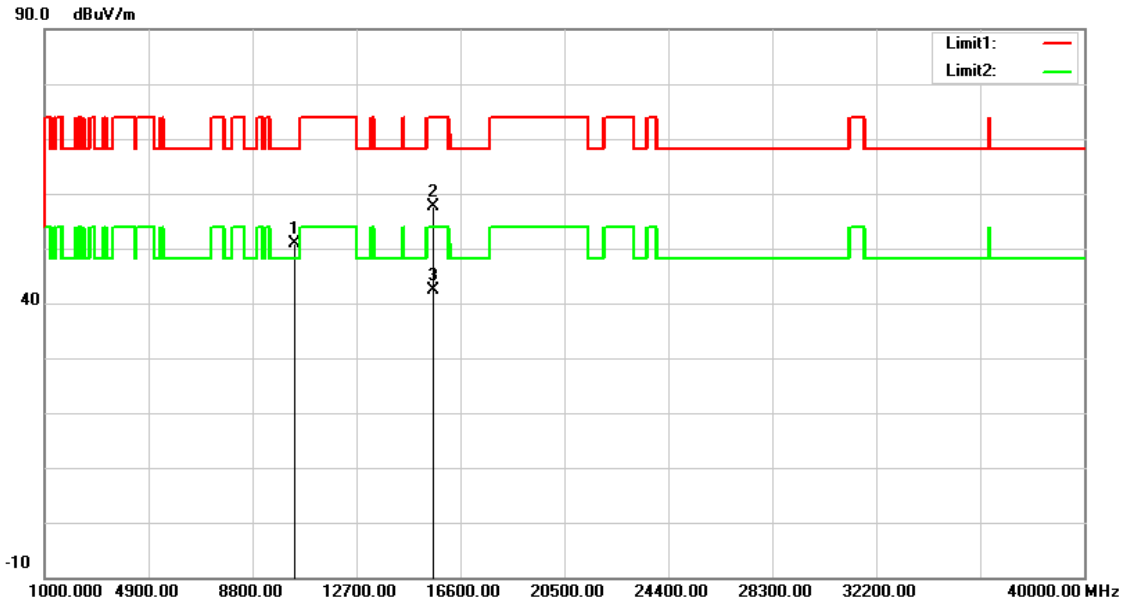
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	33.14	17.06	50.20	68.20	-18.00	peak
2	15600.000	36.75	19.02	55.77	74.00	-18.23	peak
3	15600.000	26.08	19.02	45.10	54.00	-8.90	AVG

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 120 V/60 Hz
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



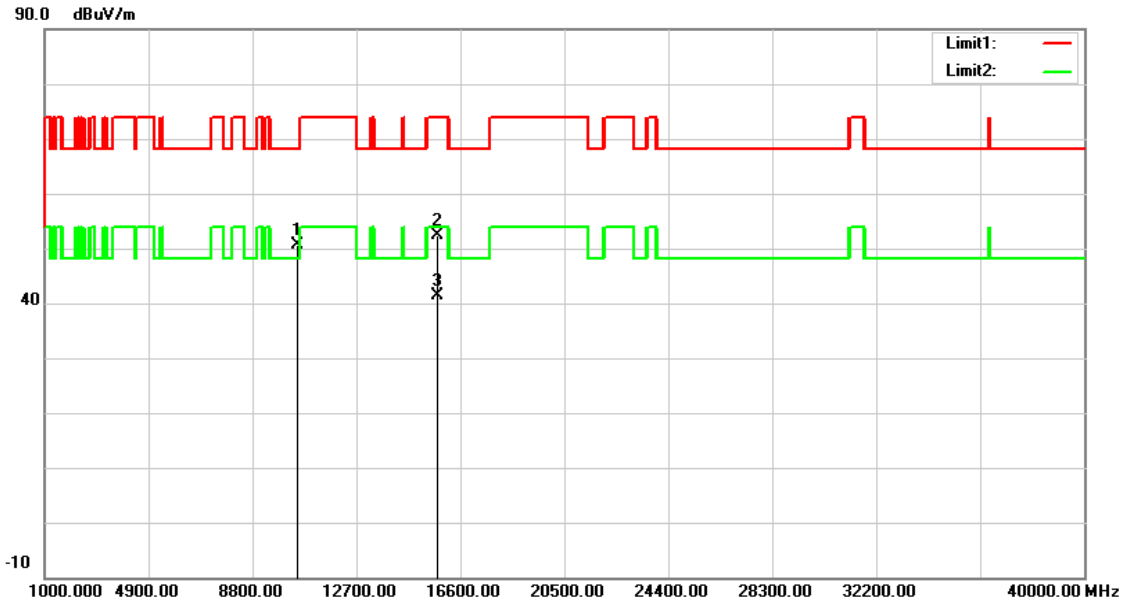
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	33.77	17.06	50.83	68.20	-17.37	peak
2	15600.000	38.58	19.02	57.60	74.00	-16.40	peak
3	15600.000	23.28	19.02	42.30	54.00	-11.70	AVG

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 120 V/60 Hz
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



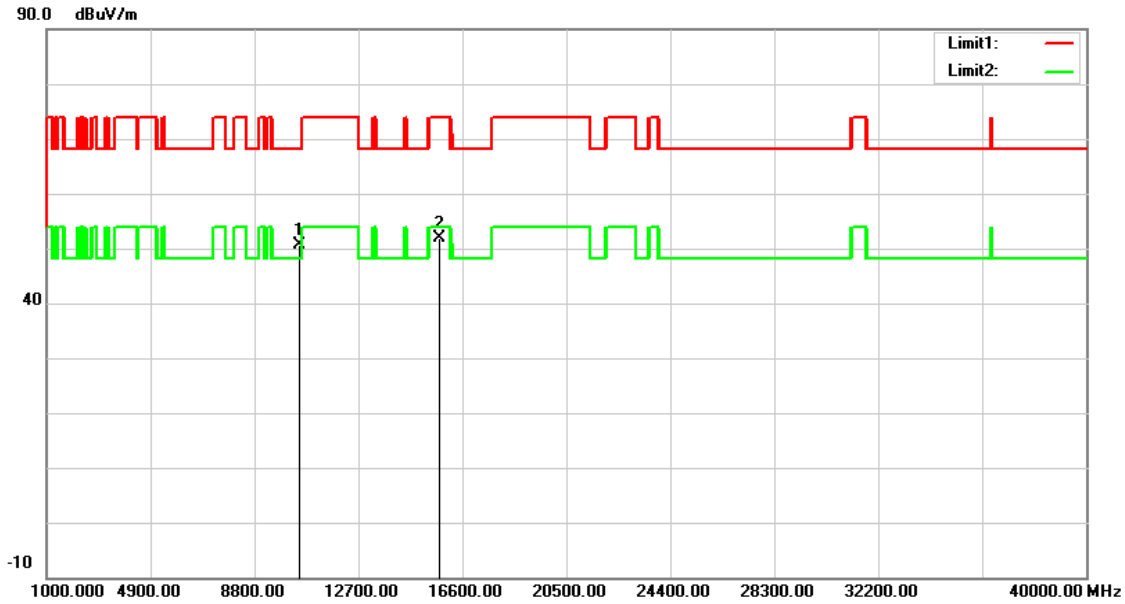
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	33.25	17.35	50.60	68.20	-17.60	peak
2	15720.000	33.73	18.71	52.44	74.00	-21.56	peak
3	15720.000	22.64	18.71	41.35	54.00	-12.65	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



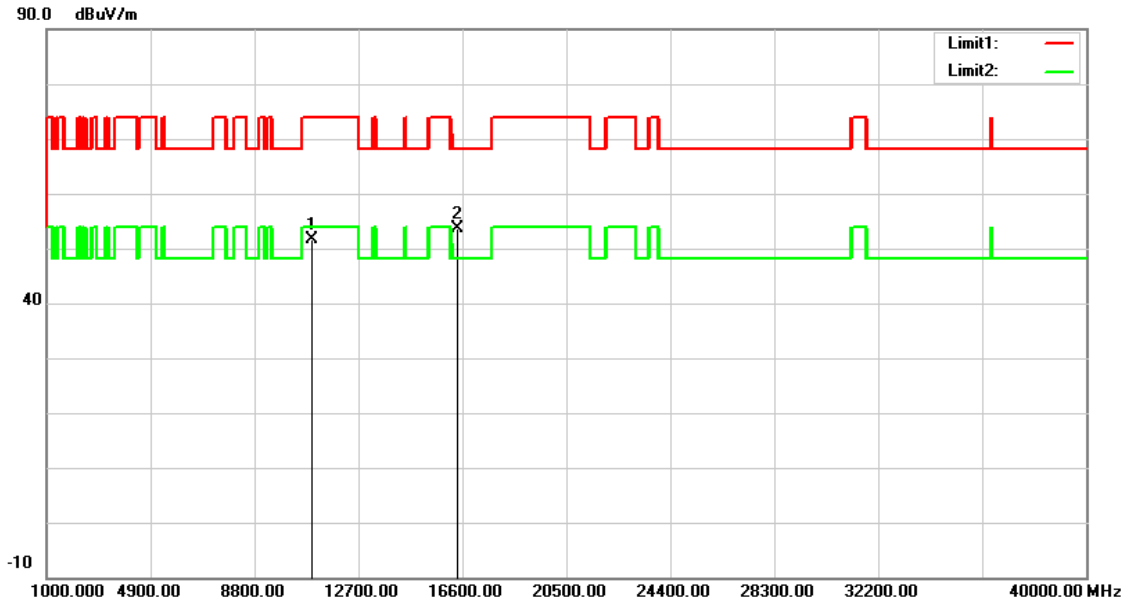
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	33.21	17.35	50.56	68.20	-17.64	peak
2	15720.000	33.08	18.71	51.79	74.00	-22.21	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



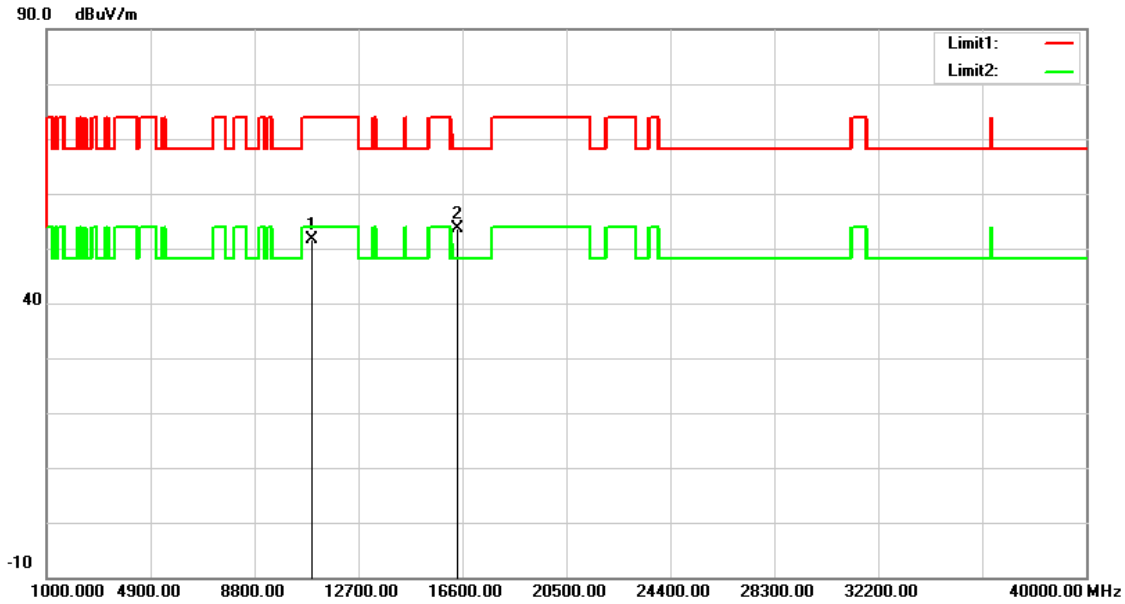
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10950.000	33.18	18.44	51.62	74.00	-22.38	peak
2	16425.000	33.19	20.35	53.54	68.20	-14.66	peak

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:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



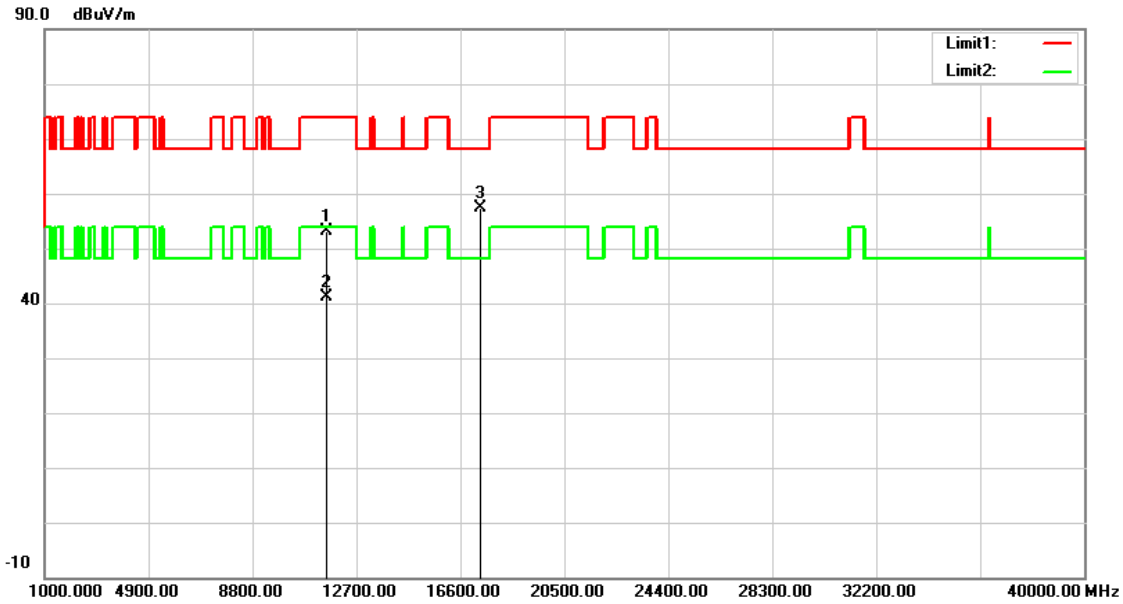
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10950.000	33.08	18.44	51.52	74.00	-22.48	peak
2	16425.000	33.24	20.35	53.59	68.20	-14.61	peak

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 120 V/60 Hz
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



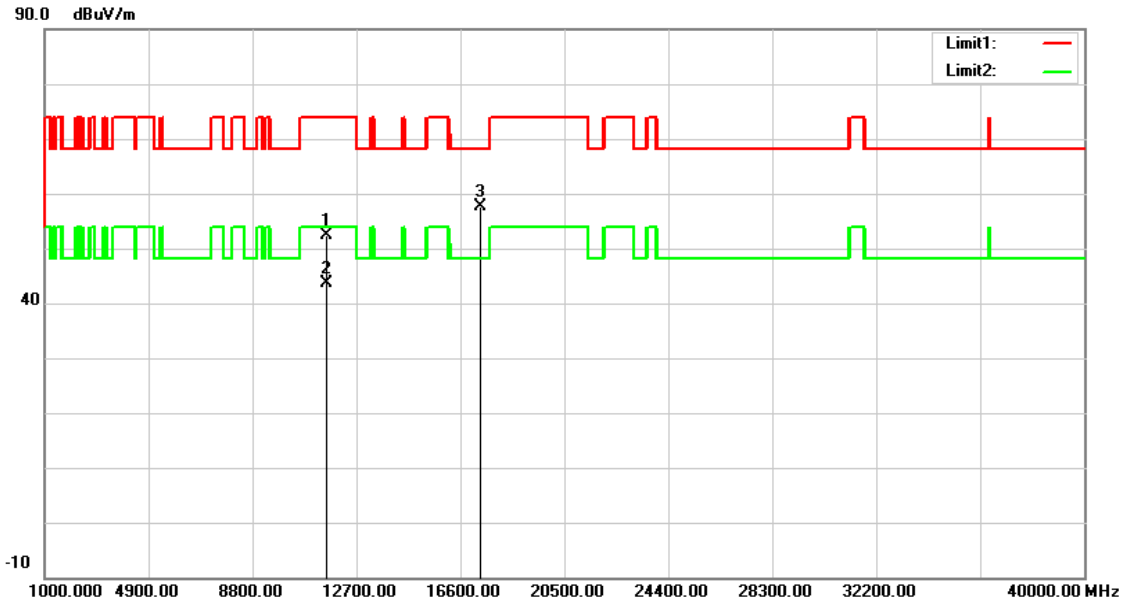
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	34.68	18.44	53.12	74.00	-20.88	peak
2	11570.000	22.69	18.44	41.13	54.00	-12.87	AVG
3	17355.000	32.54	24.79	57.33	68.20	-10.87	peak

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.

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



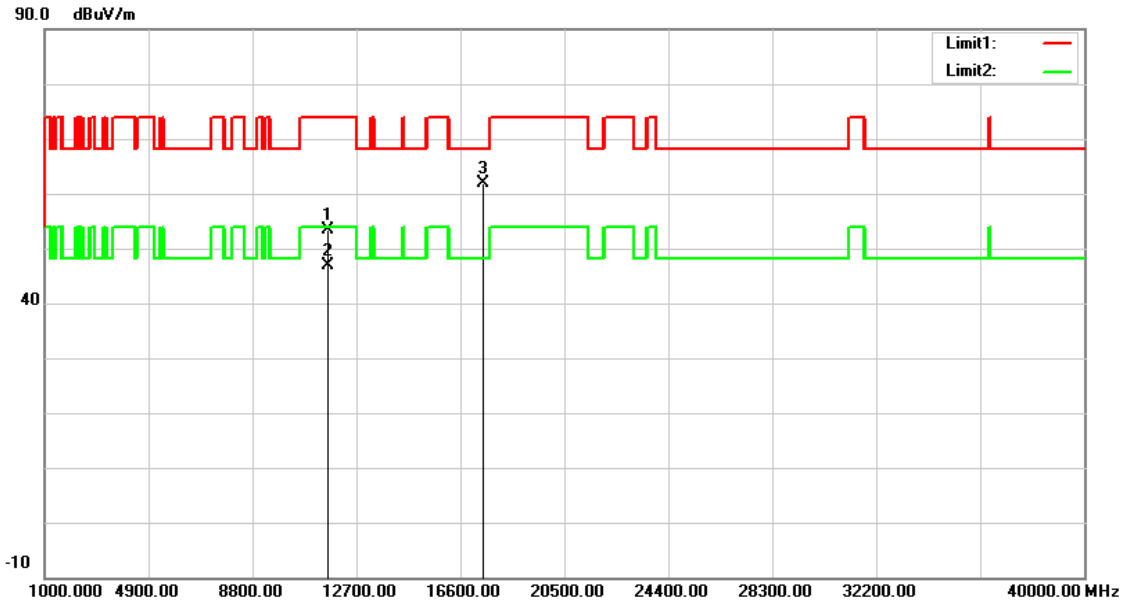
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	33.99	18.44	52.43	74.00	-21.57	peak
2	11570.000	25.22	18.44	43.66	54.00	-10.34	AVG
3	17355.000	32.90	24.79	57.69	68.20	-10.51	peak

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 120 V/60 Hz
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



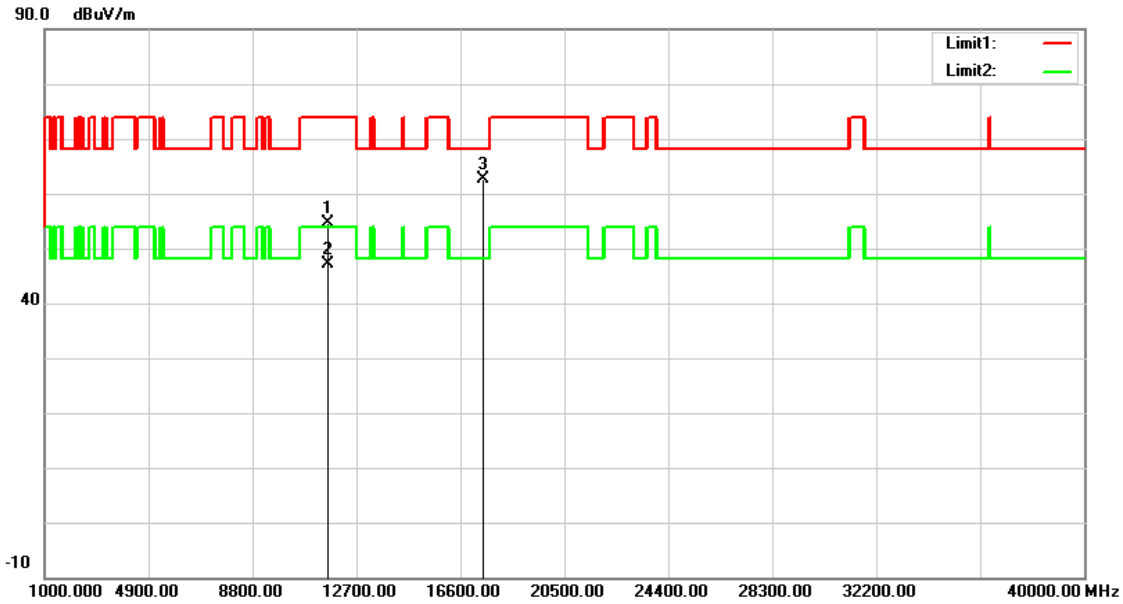
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	35.02	18.38	53.40	74.00	-20.60	peak
2	11650.000	28.57	18.38	46.95	54.00	-7.05	AVG
3	17475.000	36.73	25.26	61.99	68.20	-6.21	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



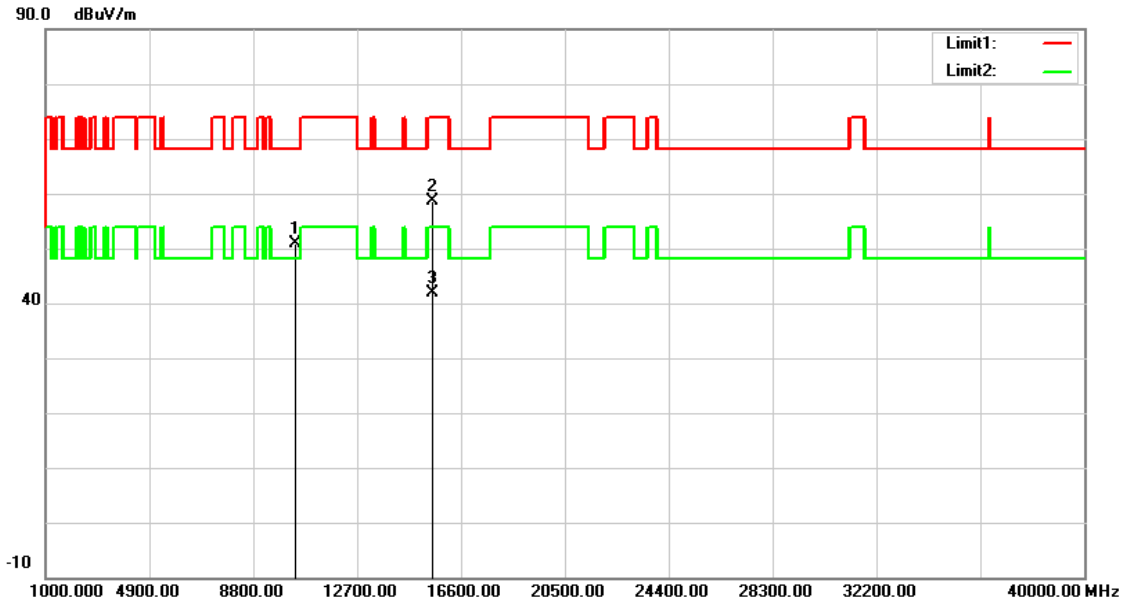
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	36.24	18.38	54.62	74.00	-19.38	peak
2	11650.000	28.70	18.38	47.08	54.00	-6.92	AVG
3	17475.000	37.41	25.26	62.67	68.20	-5.53	peak

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 120 V/60 Hz
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



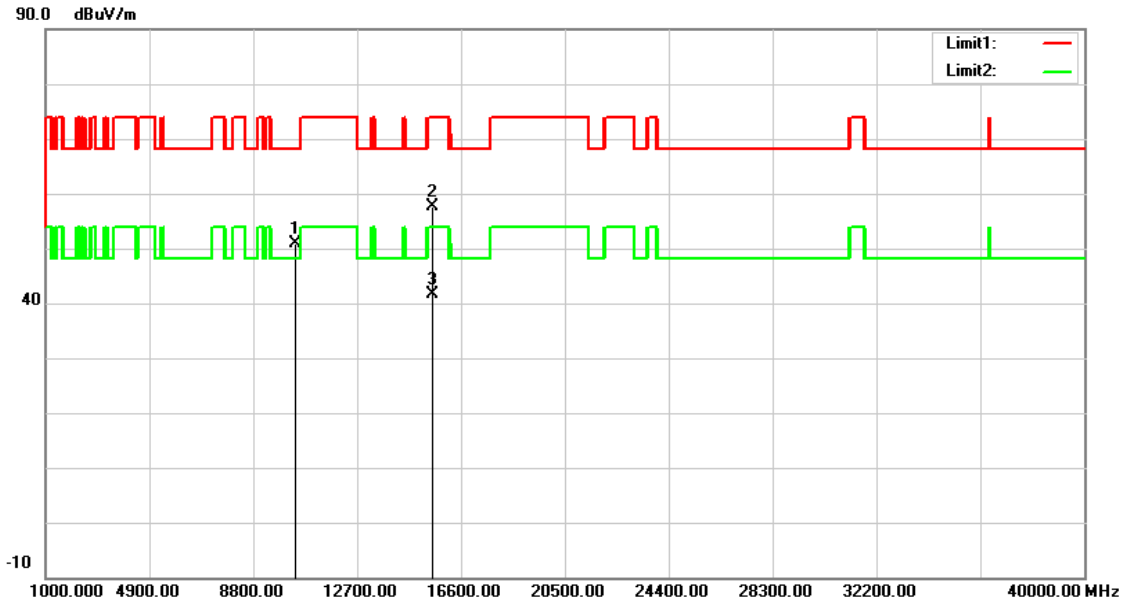
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	33.96	16.92	50.88	68.20	-17.32	peak
2	15540.000	39.52	19.18	58.70	74.00	-15.30	peak
3	15540.000	22.82	19.18	42.00	54.00	-12.00	AVG

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 120 V/60 Hz
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



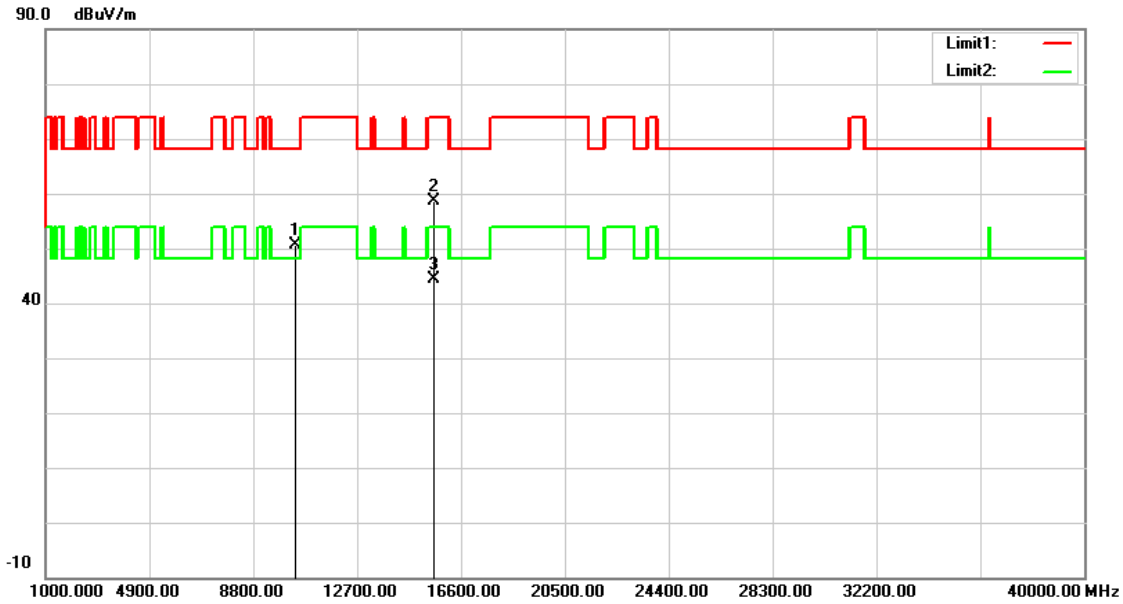
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	33.95	16.92	50.87	68.20	-17.33	peak
2	15540.000	38.43	19.18	57.61	74.00	-16.39	peak
3	15540.000	22.55	19.18	41.73	54.00	-12.27	AVG

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 120 V/60 Hz
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



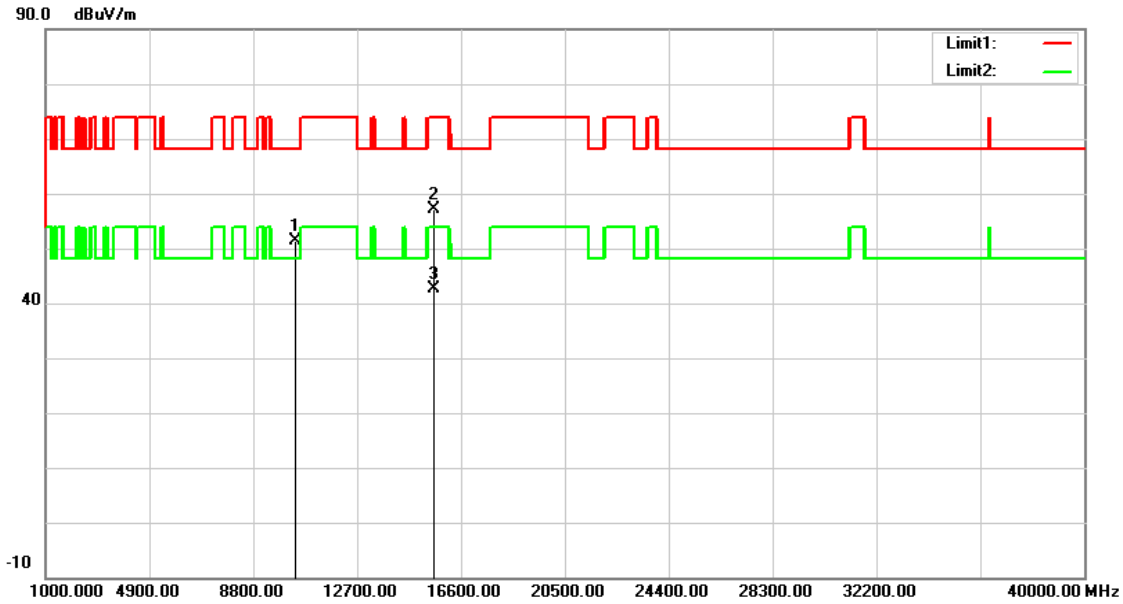
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	33.68	17.06	50.74	68.20	-17.46	peak
2	15600.000	39.70	19.02	58.72	74.00	-15.28	peak
3	15600.000	25.32	19.02	44.34	54.00	-9.66	AVG

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:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



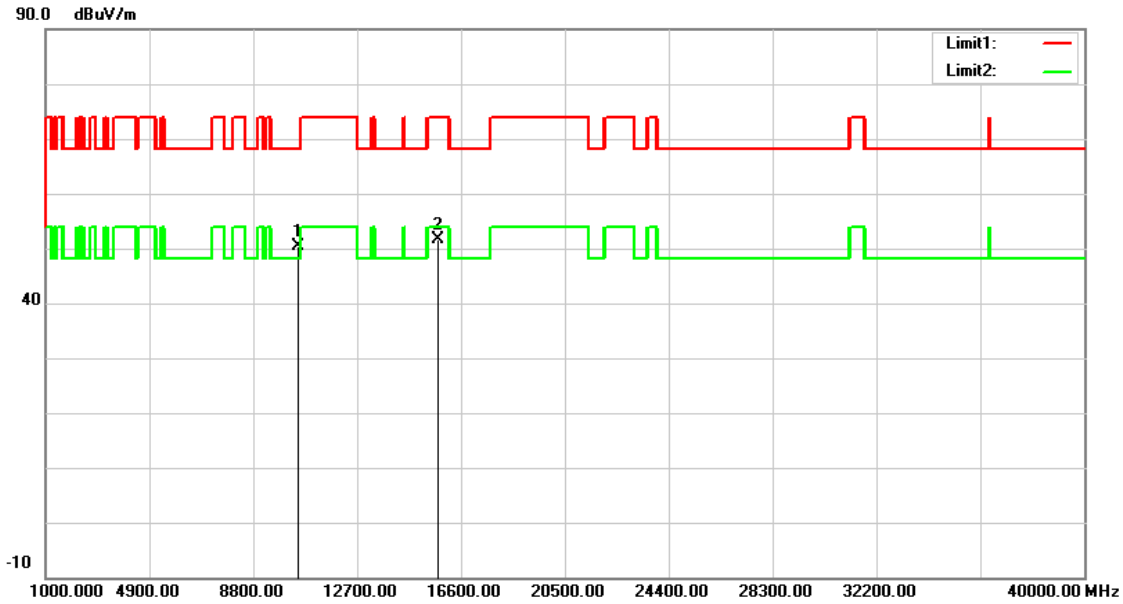
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	34.36	17.06	51.42	68.20	-16.78	peak
2	15600.000	38.11	19.02	57.13	74.00	-16.87	peak
3	15600.000	23.51	19.02	42.53	54.00	-11.47	AVG

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 120 V/60 Hz
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



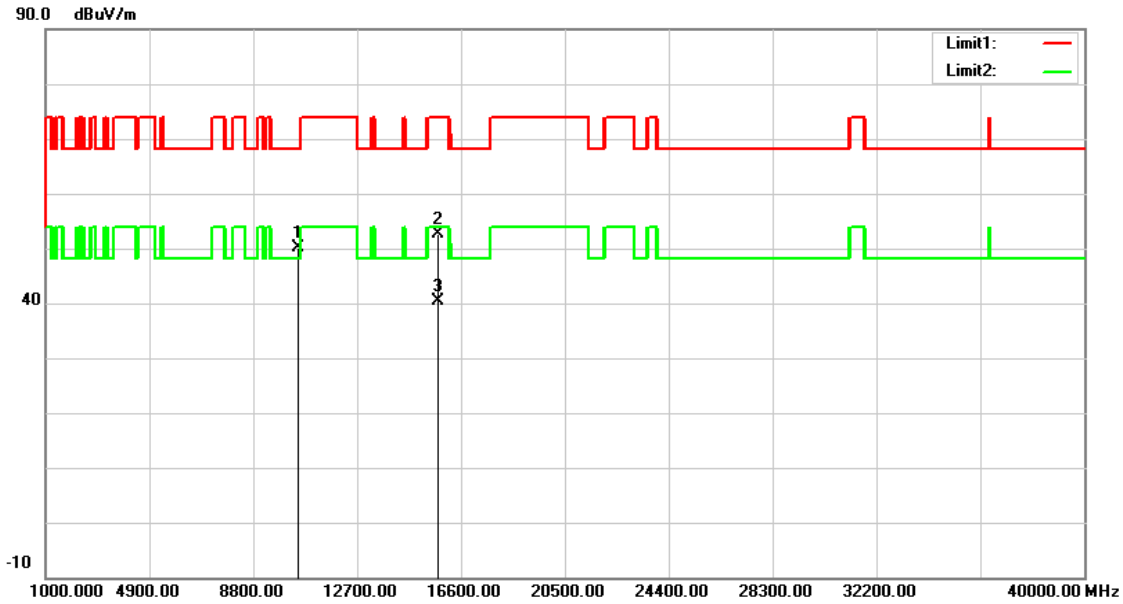
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	33.06	17.35	50.41	68.20	-17.79	peak
2	15720.000	32.90	18.71	51.61	74.00	-22.39	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



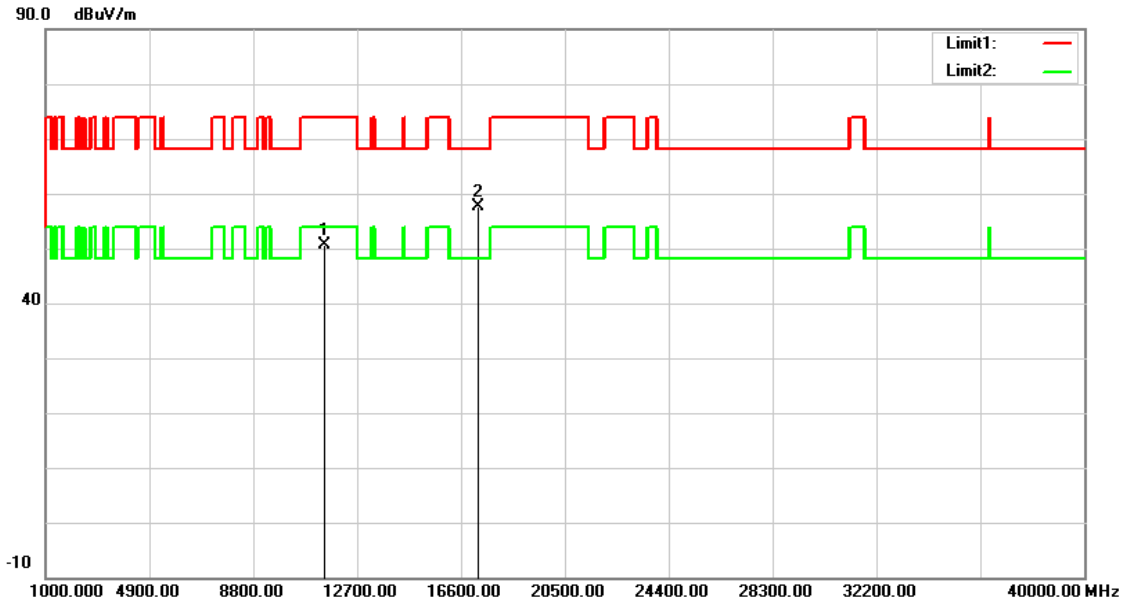
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	32.89	17.35	50.24	68.20	-17.96	peak
2	15720.000	33.80	18.71	52.51	74.00	-21.49	peak
3	15720.000	21.56	18.71	40.27	54.00	-13.73	AVG

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 120 V/60 Hz
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



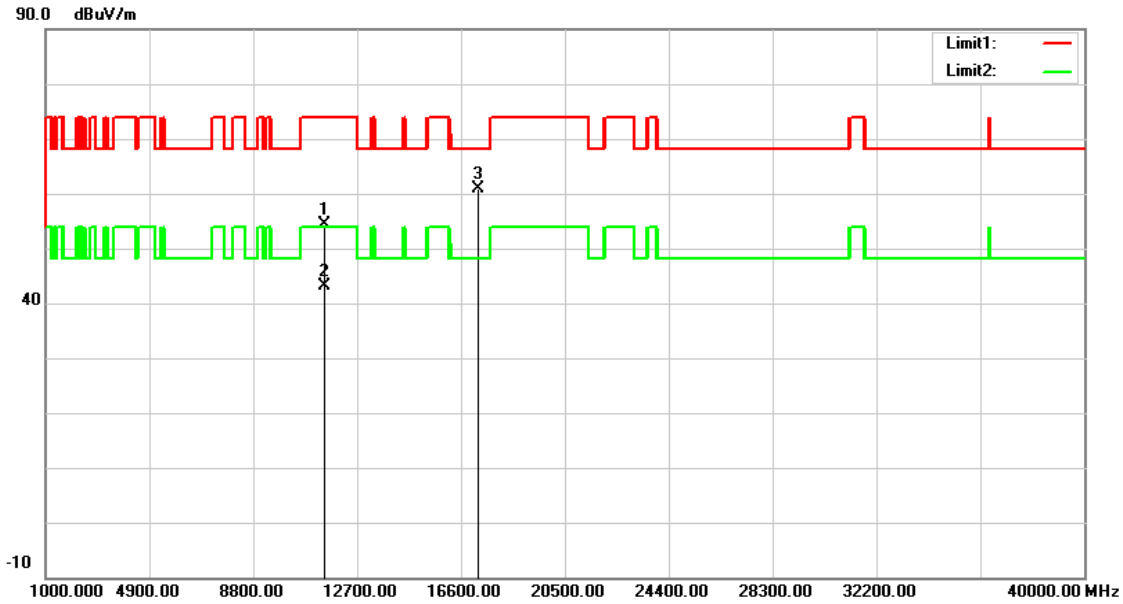
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	32.19	18.50	50.69	74.00	-23.31	peak
2	17235.000	33.35	24.31	57.66	68.20	-10.54	peak

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 120 V/60 Hz
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



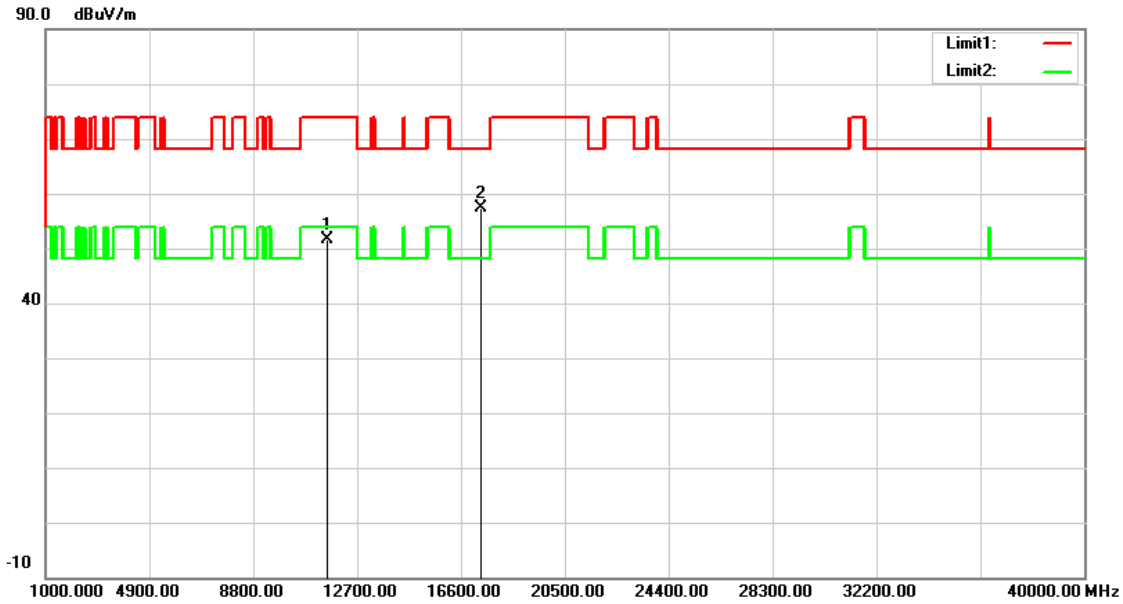
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	35.94	18.50	54.44	74.00	-19.56	peak
2	11490.000	24.70	18.50	43.20	54.00	-10.80	AVG
3	17235.000	36.59	24.31	60.90	68.20	-7.30	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



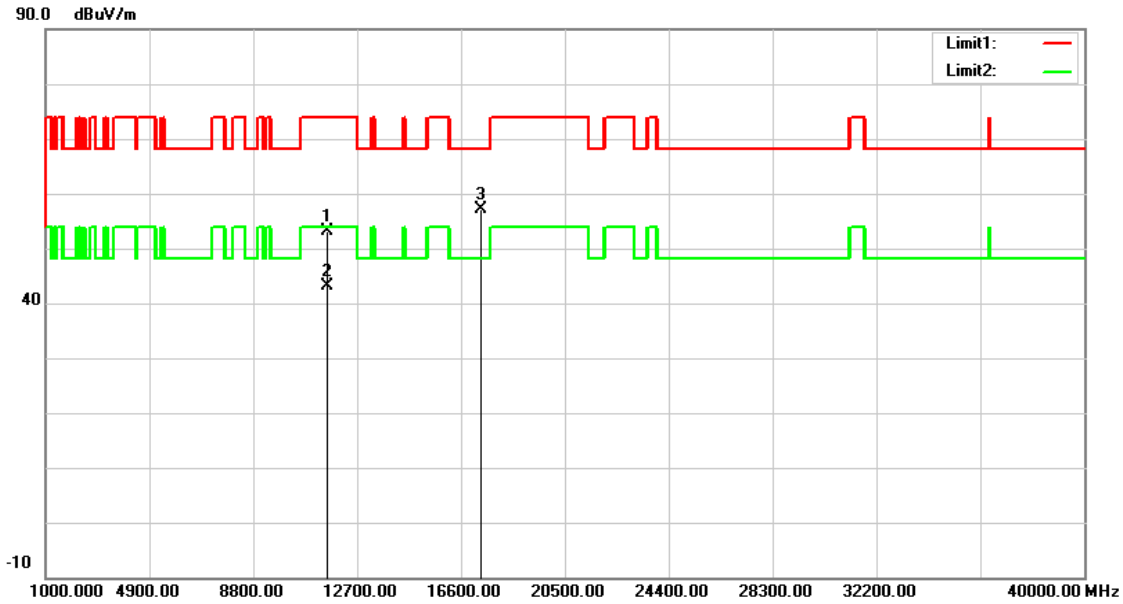
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	33.27	18.44	51.71	74.00	-22.29	peak
2	17355.000	32.53	24.79	57.32	68.20	-10.88	peak

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:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



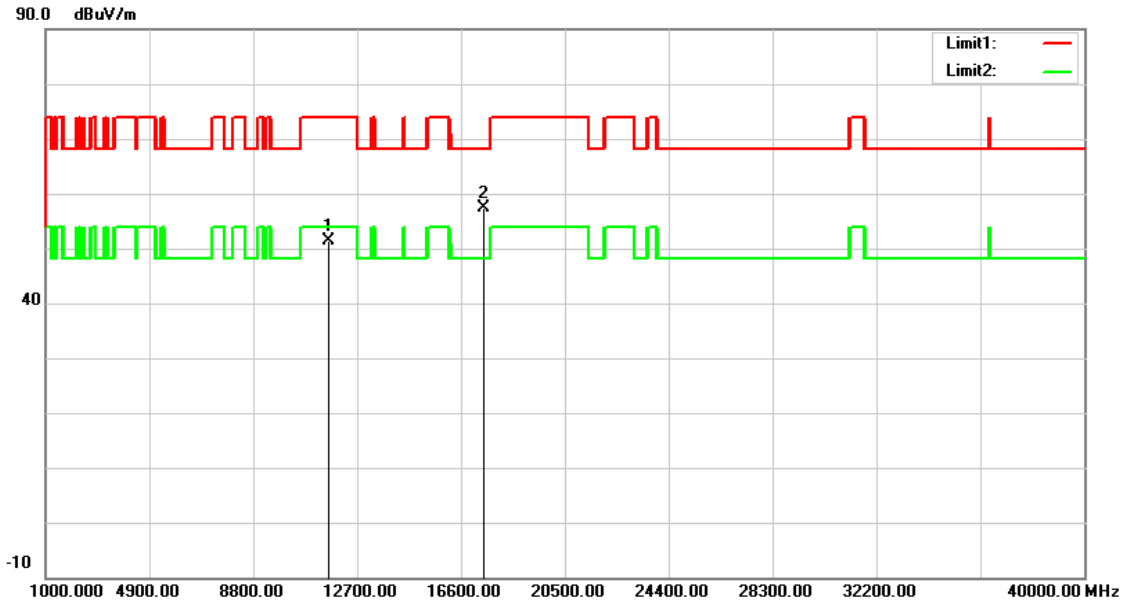
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	34.67	18.44	53.11	74.00	-20.89	peak
2	11570.000	24.59	18.44	43.03	54.00	-10.97	AVG
3	17355.000	32.37	24.79	57.16	68.20	-11.04	peak

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 120 V/60 Hz
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



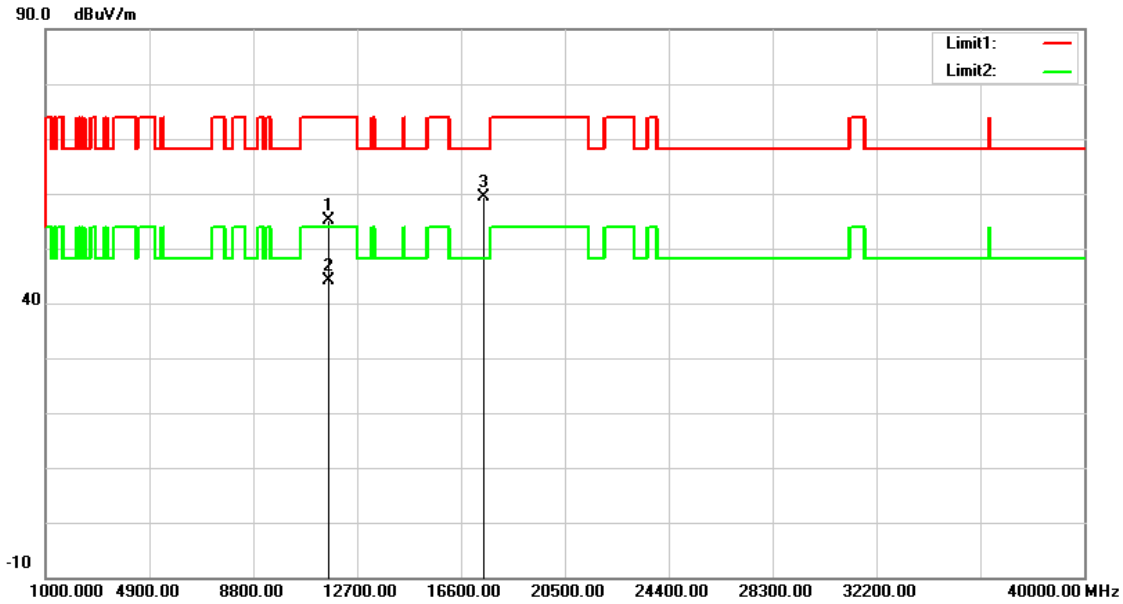
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	33.02	18.38	51.40	74.00	-22.60	peak
2	17475.000	32.24	25.26	57.50	68.20	-10.70	peak

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 120 V/60 Hz
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



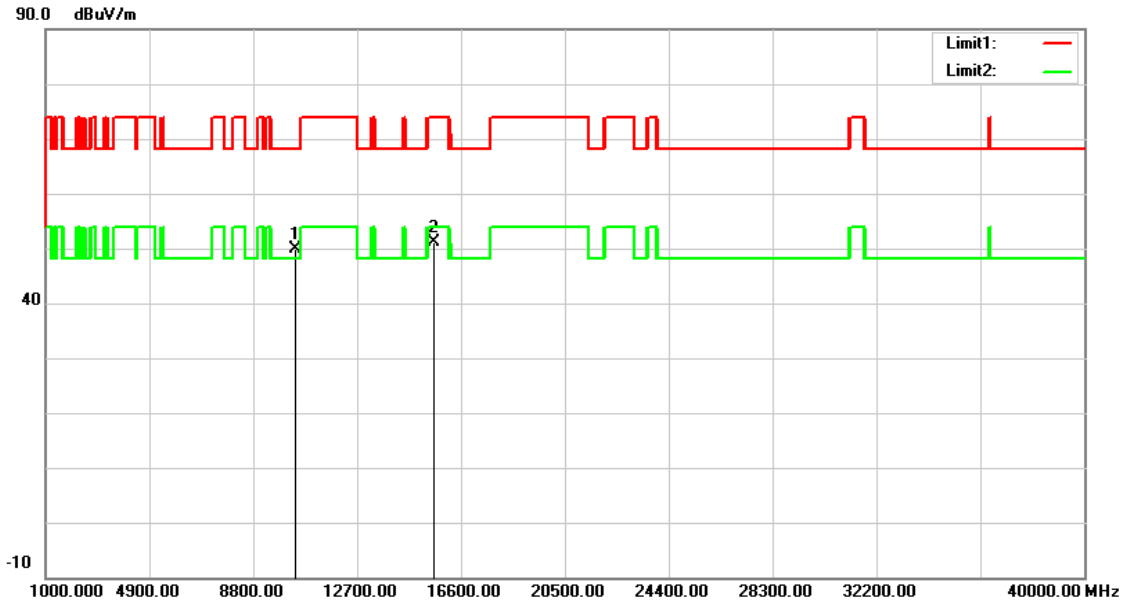
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	36.74	18.38	55.12	74.00	-18.88	peak
2	11650.000	25.84	18.38	44.22	54.00	-9.78	AVG
3	17475.000	34.19	25.26	59.45	68.20	-8.75	peak

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 120 V/60 Hz
Frequency:	5190 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



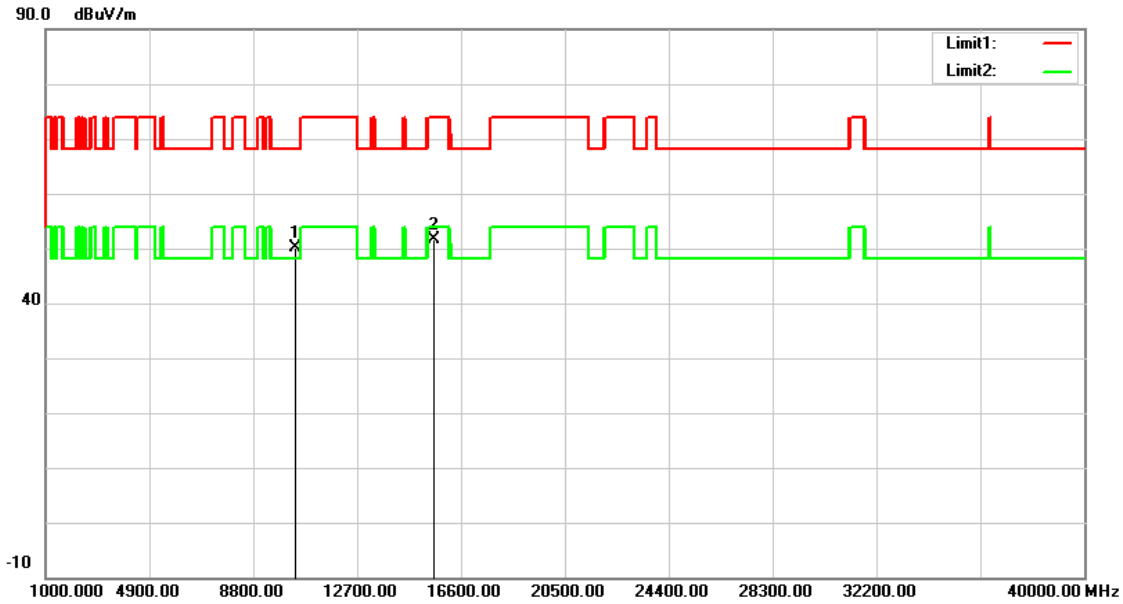
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	32.94	16.98	49.92	68.20	-18.28	peak
2	15570.000	31.96	19.11	51.07	74.00	-22.93	peak

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 120 V/60 Hz
Frequency:	5190 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



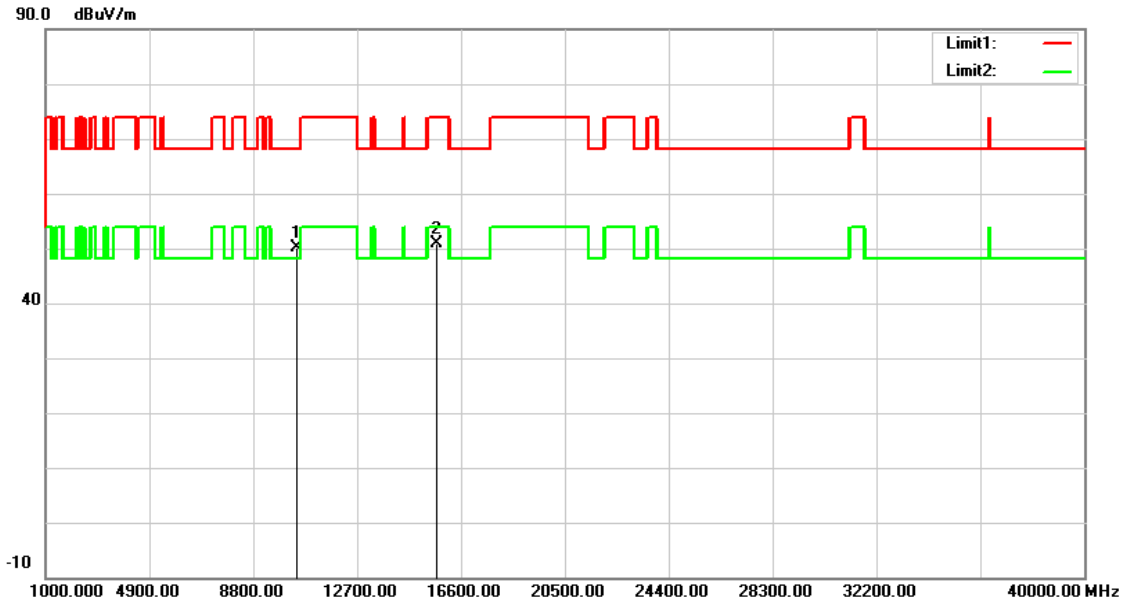
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	33.21	16.98	50.19	68.20	-18.01	peak
2	15570.000	32.45	19.11	51.56	74.00	-22.44	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5230 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



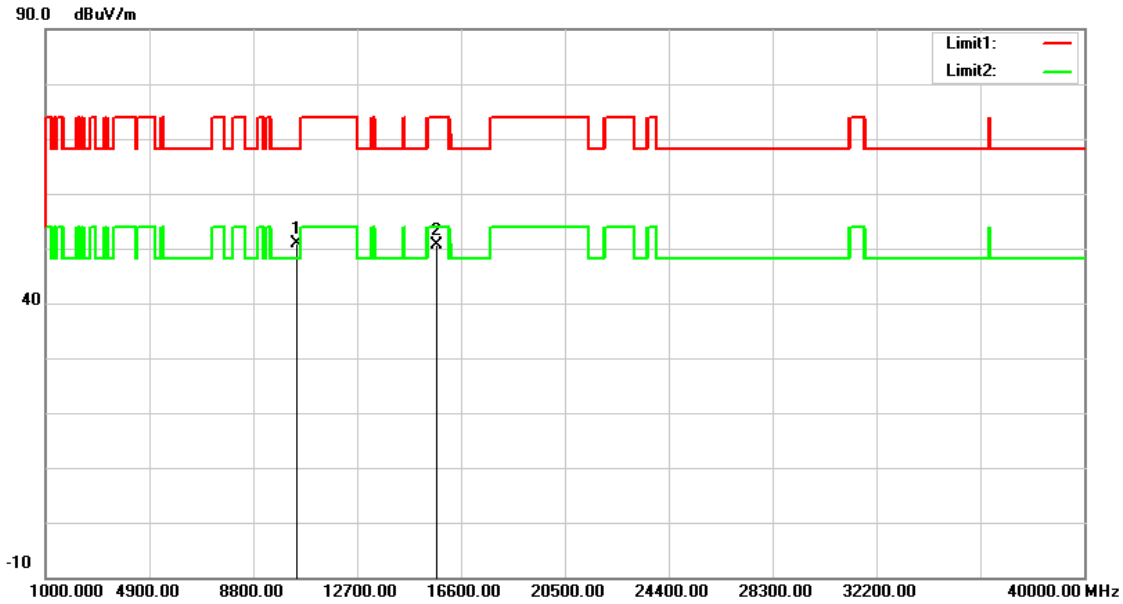
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	32.84	17.27	50.11	68.20	-18.09	peak
2	15690.000	32.05	18.78	50.83	74.00	-23.17	peak

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 120 V/60 Hz
Frequency:	5230 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



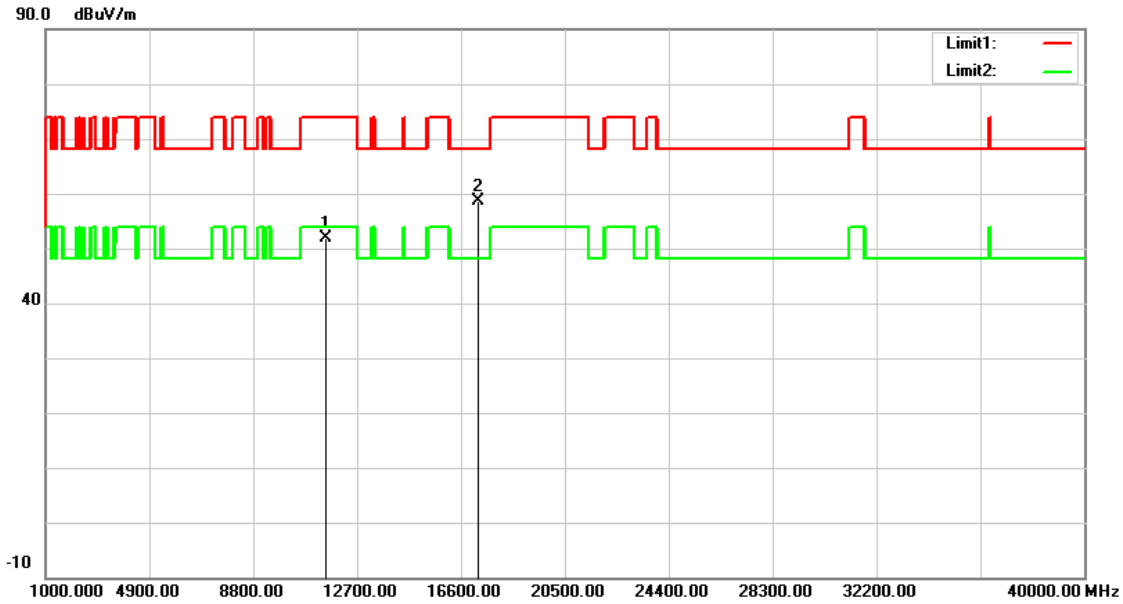
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	33.64	17.27	50.91	68.20	-17.29	peak
2	15690.000	31.87	18.78	50.65	74.00	-23.35	peak

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:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5755 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



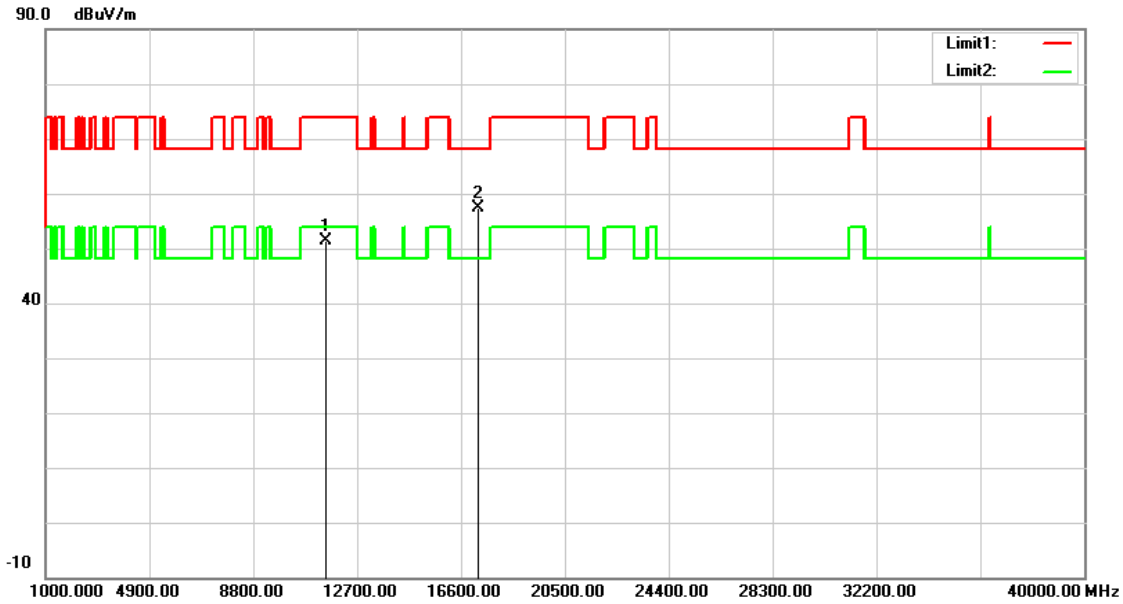
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	33.49	18.49	51.98	74.00	-22.02	peak
2	17265.000	34.08	24.44	58.52	68.20	-9.68	peak

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 120 V/60 Hz
Frequency:	5755 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



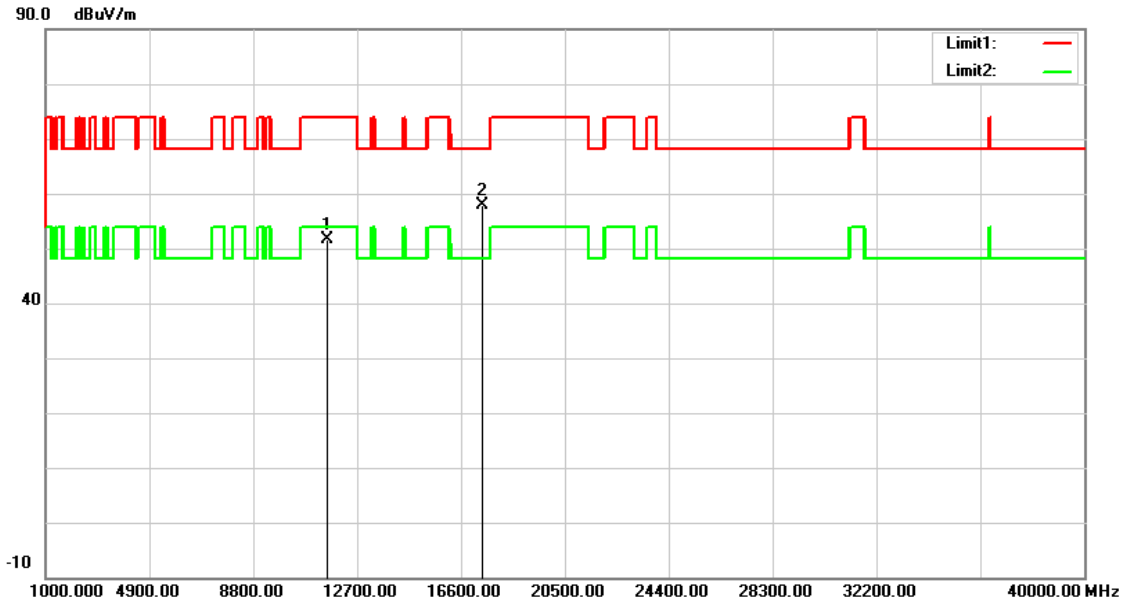
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	33.01	18.49	51.50	74.00	-22.50	peak
2	17260.000	32.96	24.42	57.38	68.20	-10.82	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5795 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



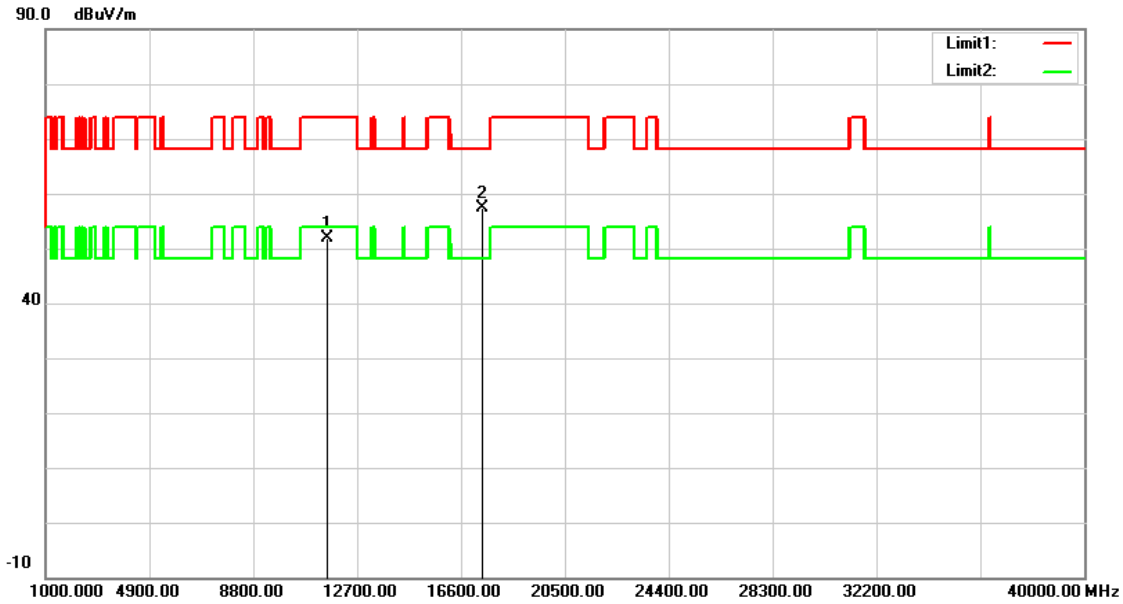
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	33.31	18.43	51.74	74.00	-22.26	peak
2	17385.000	33.09	24.90	57.99	68.20	-10.21	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5795 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



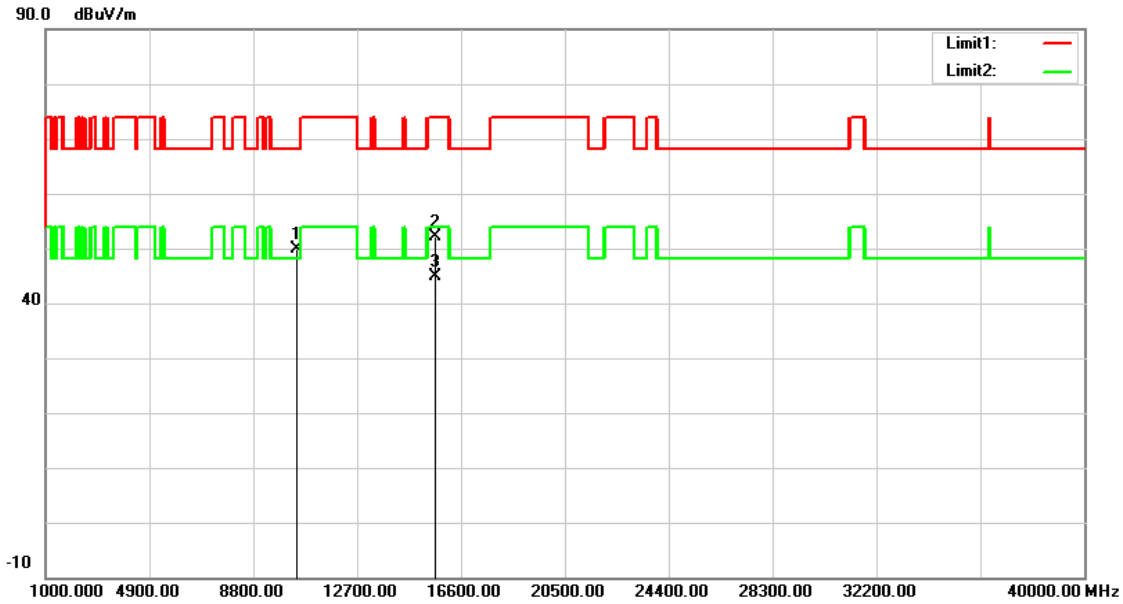
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	33.35	18.43	51.78	74.00	-22.22	peak
2	17385.000	32.48	24.90	57.38	68.20	-10.82	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5210 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



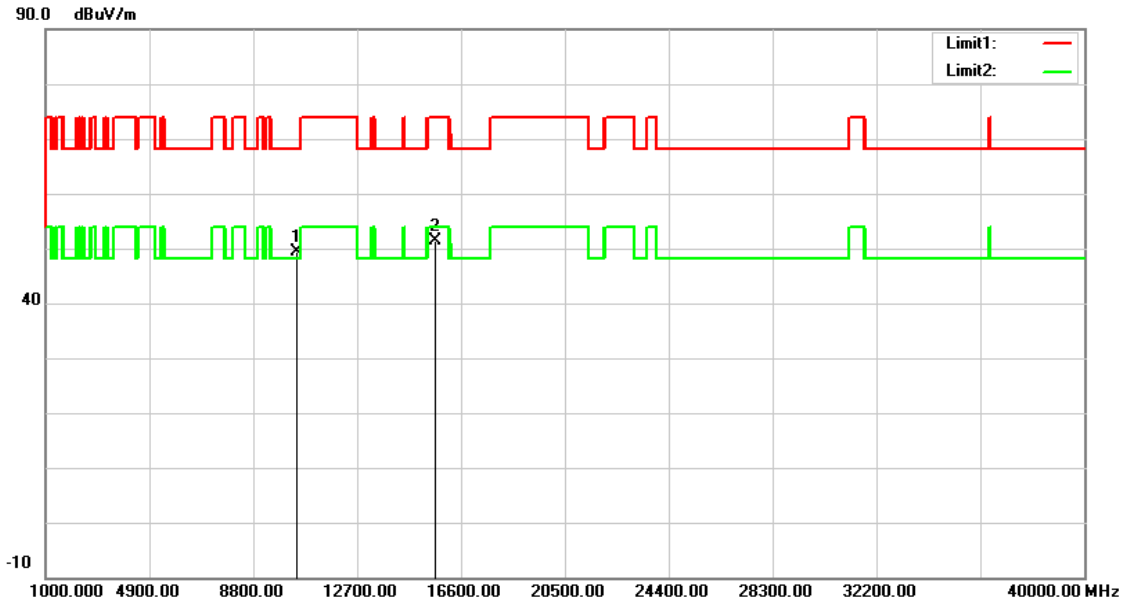
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	32.87	17.13	50.00	68.20	-18.20	peak
2	15630.000	33.14	18.94	52.08	74.00	-21.92	peak
3	15630.000	25.84	18.94	44.78	54.00	-9.22	AVG

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 120 V/60 Hz
Frequency:	5210 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 7		
Ant.Polar.:	Vertical		



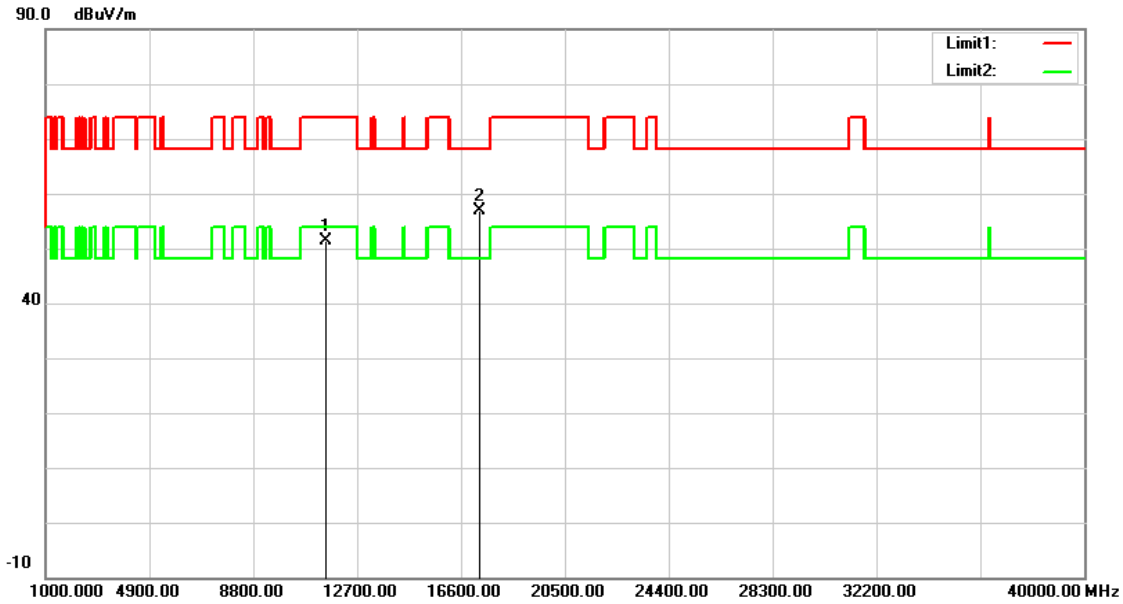
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	32.28	17.13	49.41	68.20	-18.79	peak
2	15630.000	32.35	18.94	51.29	74.00	-22.71	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 120 V/60 Hz
Frequency:	5775 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



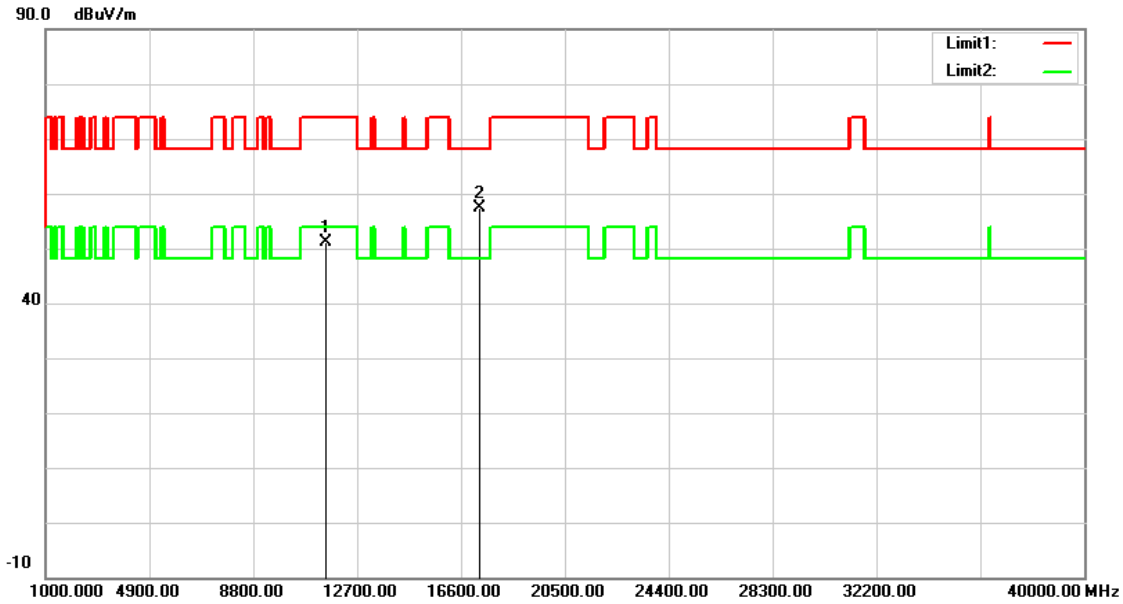
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	32.96	18.46	51.42	74.00	-22.58	peak
2	17325.000	32.24	24.68	56.92	68.20	-11.28	peak

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 120 V/60 Hz
Frequency:	5775 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 7		
Ant.Polar.:	Vertical		



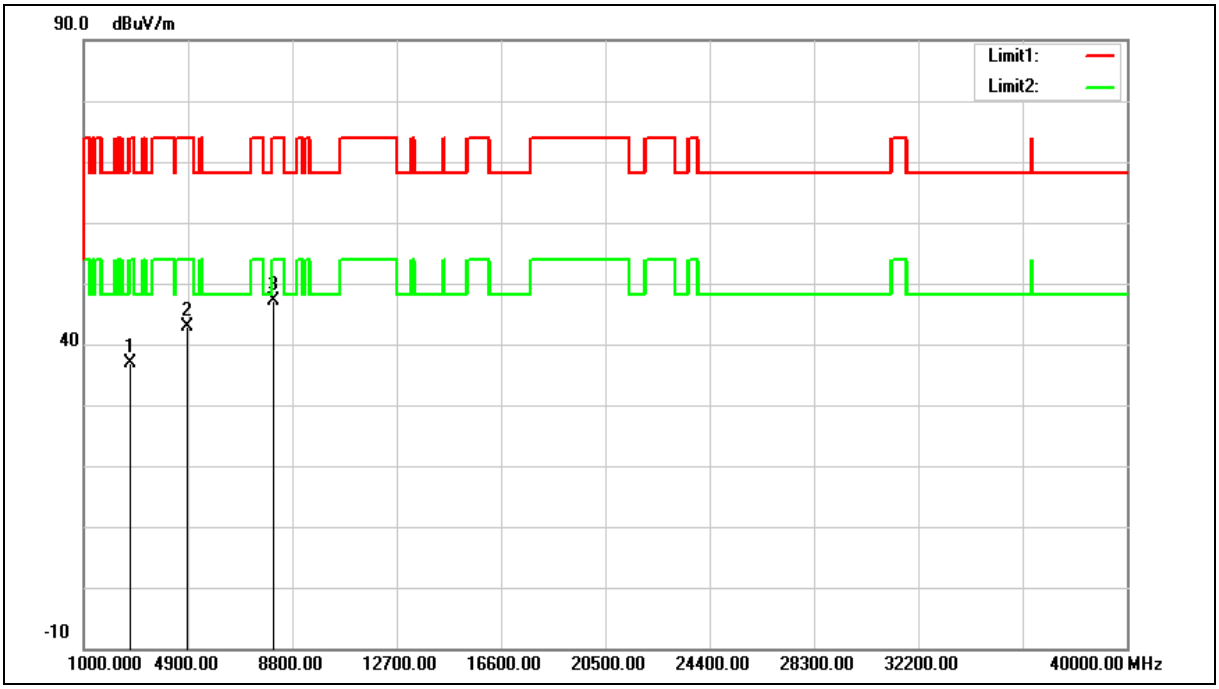
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	32.71	18.46	51.17	74.00	-22.83	peak
2	17325.000	32.81	24.68	57.49	68.20	-10.71	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Transmitter Unwanted Emissions	Power:	AC 120 V/60 Hz
Test Mode:	Simultaneous Transmitting (DTS+NII)	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Ant.Polar.:	Horizontal		



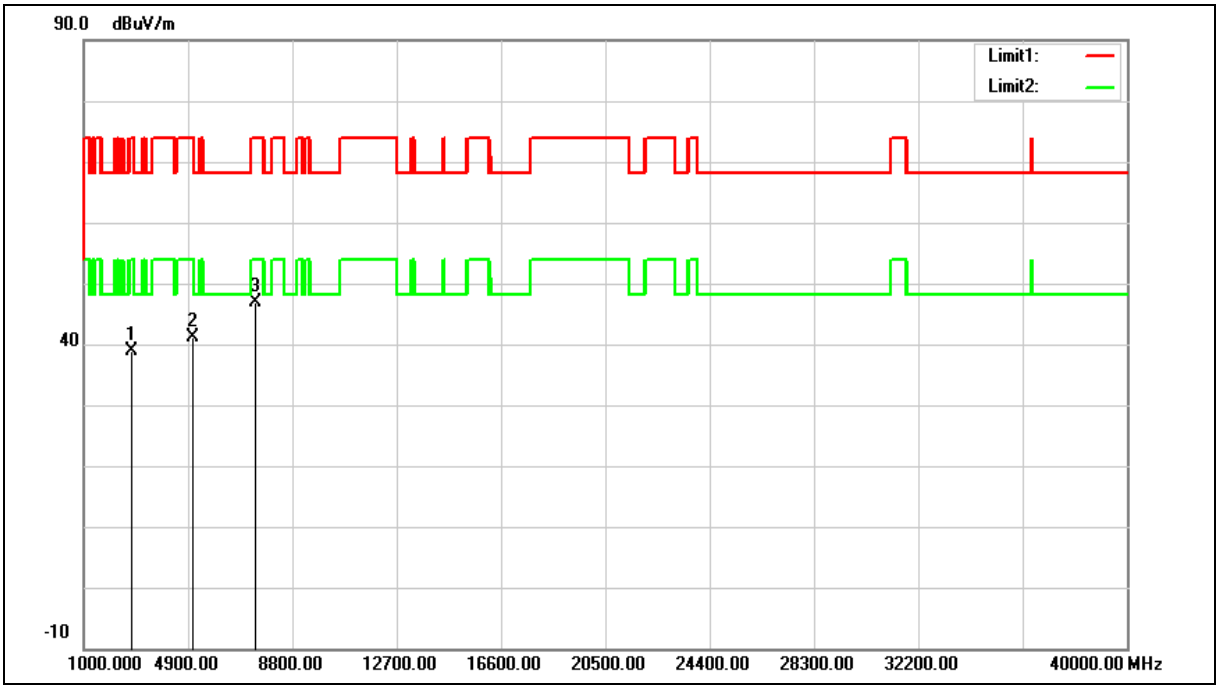
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2751.000	36.77	0.15	36.92	74.00	-37.08	peak
2	4825.000	37.38	5.57	42.95	74.00	-31.05	peak
3	8106.000	33.08	14.04	47.12	74.00	-26.88	peak

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:	Transmitter Unwanted Emissions	Power:	AC 120 V/60 Hz
Test Mode:	Simultaneous Transmitting (DTS+NII)	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2802.000	38.55	0.31	38.86	74.00	-35.14	peak
2	5063.000	35.03	6.06	41.09	74.00	-32.91	peak
3	7426.000	34.45	12.42	46.87	74.00	-27.13	peak

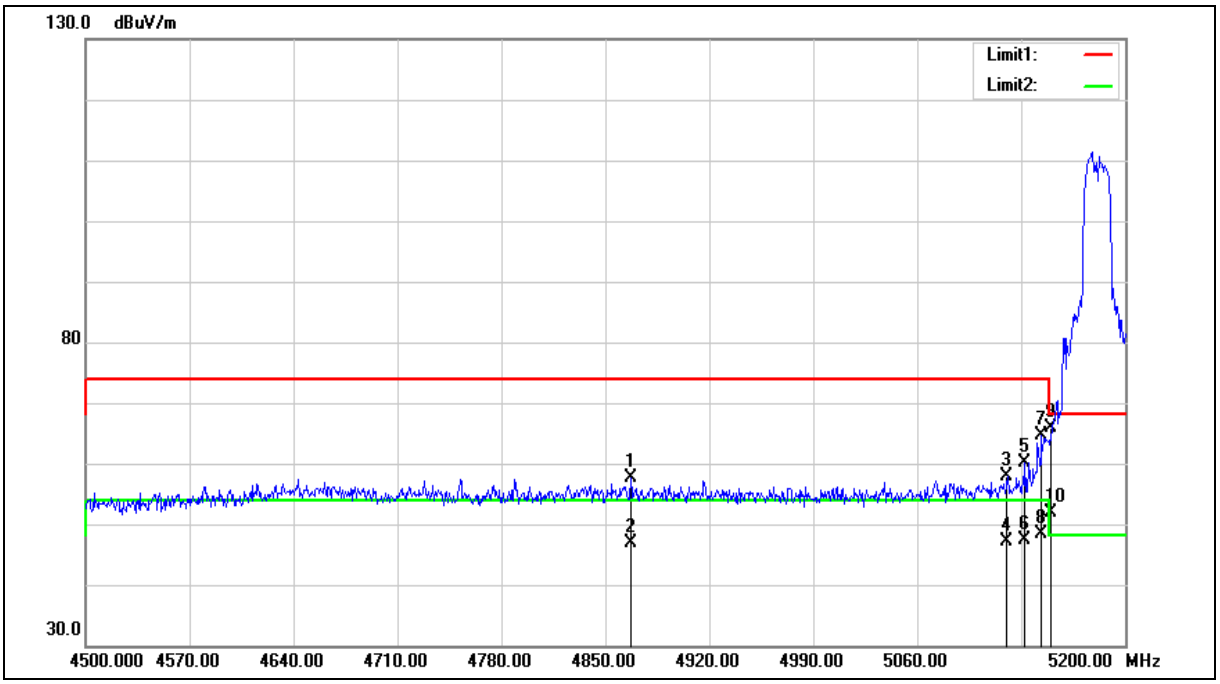
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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.

Band Edge

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
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 120 V/60 Hz
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

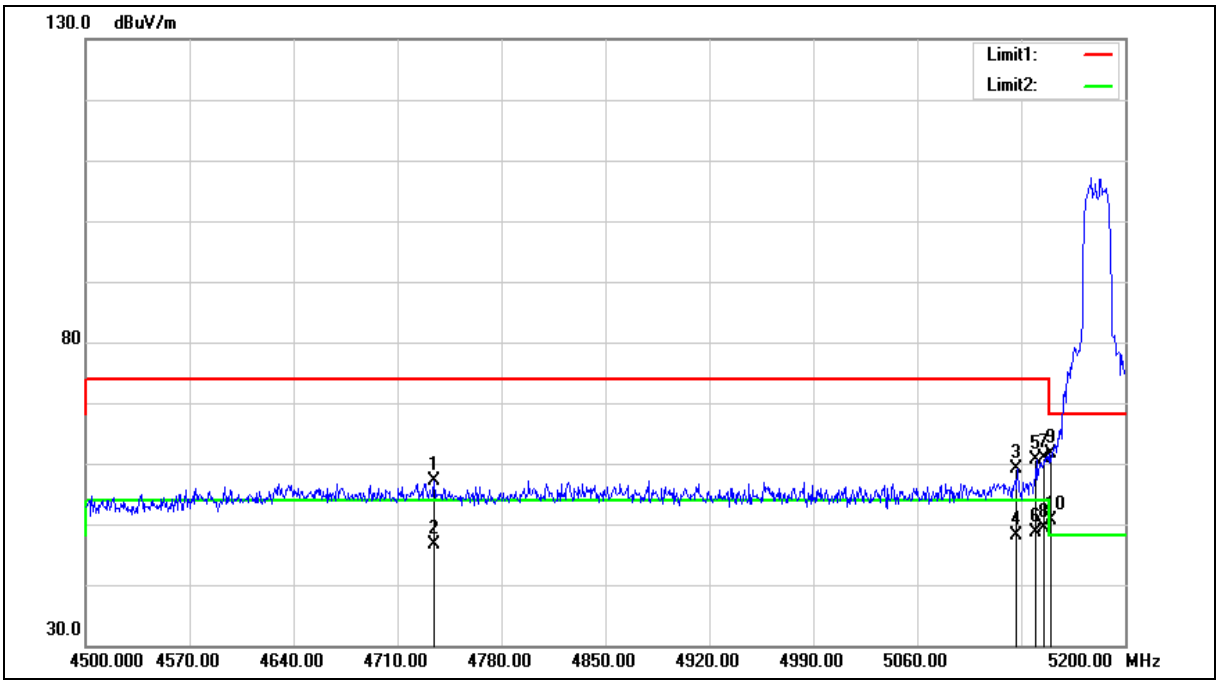
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4866.800	51.97	5.65	57.62	74.00	-16.38	peak
2	4866.800	41.19	5.65	46.84	54.00	-7.16	AVG
3	5120.200	51.73	6.20	57.93	74.00	-16.07	peak
4	5120.200	40.91	6.20	47.11	54.00	-6.89	AVG
5	5132.100	53.96	6.22	60.18	74.00	-13.82	peak
6	5132.100	41.17	6.22	47.39	54.00	-6.61	AVG
7	5143.300	58.32	6.26	64.58	74.00	-9.42	peak
8	5143.300	42.07	6.26	48.33	54.00	-5.67	AVG
9	5150.000	59.53	6.27	65.80	74.00	-8.20	peak
10	5150.000	45.73	6.27	52.00	54.00	-2.00	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 120 V/60 Hz
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 120 V/60 Hz
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

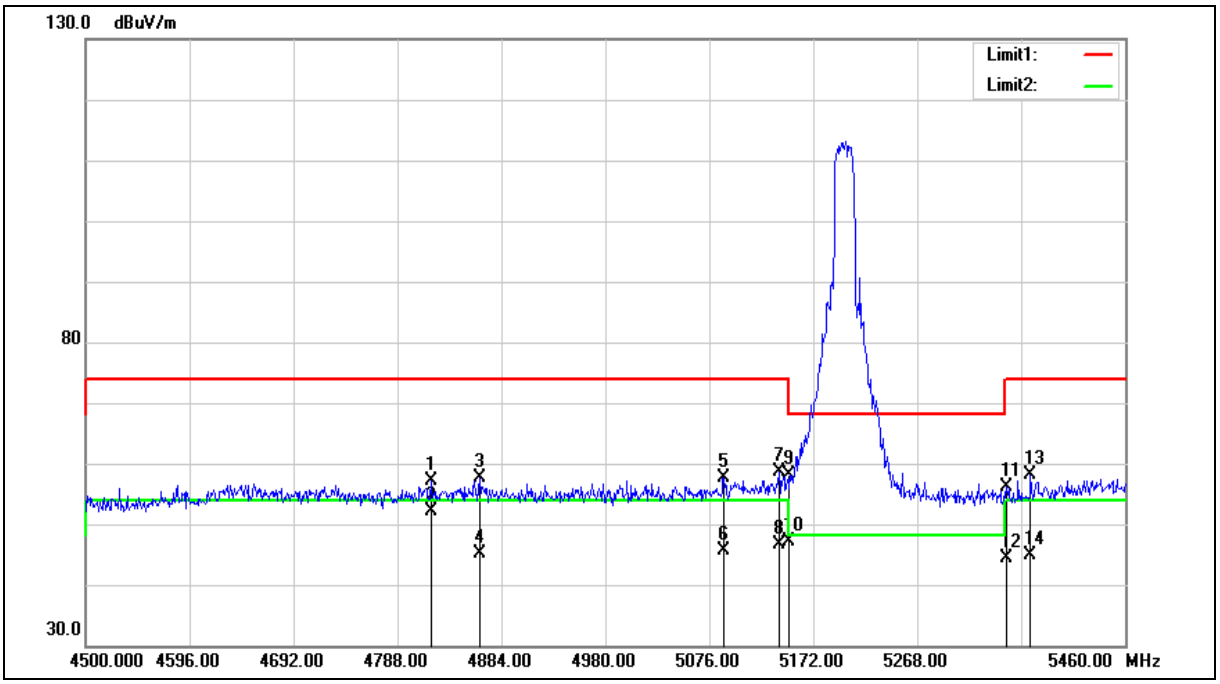
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4734.500	51.77	5.40	57.17	74.00	-16.83	peak
2	4734.500	41.32	5.40	46.72	54.00	-7.28	AVG
3	5127.200	52.99	6.21	59.20	74.00	-14.80	peak
4	5127.200	41.99	6.21	48.20	54.00	-5.80	AVG
5	5139.800	54.42	6.25	60.67	74.00	-13.33	peak
6	5139.800	42.30	6.25	48.55	54.00	-5.45	AVG
7	5145.400	54.57	6.26	60.83	74.00	-13.17	peak
8	5145.400	43.12	6.26	49.38	54.00	-4.62	AVG
9	5150.000	55.25	6.27	61.52	74.00	-12.48	peak
10	5150.000	44.43	6.27	50.70	54.00	-3.30	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 120 V/60 Hz
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 120 V/60 Hz
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

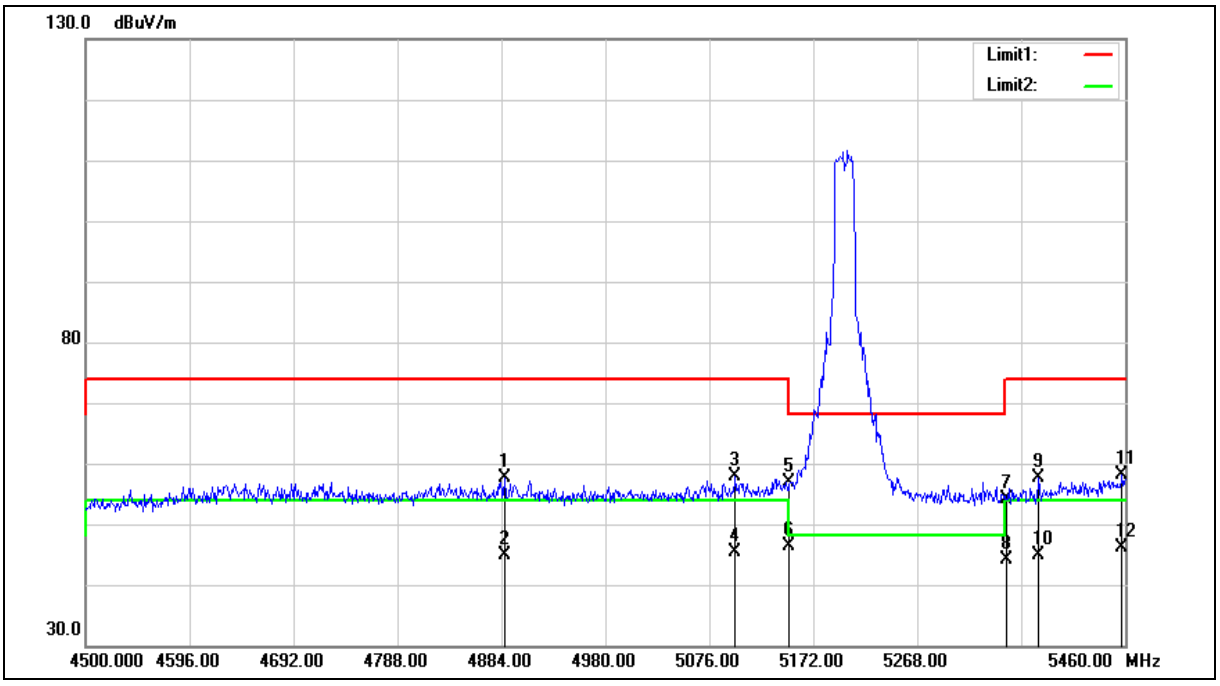
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4818.720	51.57	5.56	57.13	74.00	-16.87	peak
2	4818.720	46.67	5.56	52.23	54.00	-1.77	AVG
3	4863.840	52.05	5.65	57.70	74.00	-16.30	peak
4	4863.840	39.37	5.65	45.02	54.00	-8.98	AVG
5	5089.440	51.42	6.13	57.55	74.00	-16.45	peak
6	5089.440	39.56	6.13	45.69	54.00	-8.31	AVG
7	5140.320	52.28	6.25	58.53	74.00	-15.47	peak
8	5140.320	40.46	6.25	46.71	54.00	-7.29	AVG
9	5150.000	51.86	6.27	58.13	74.00	-15.87	peak
10	5150.000	40.88	6.27	47.15	54.00	-6.85	AVG
11	5350.000	49.28	6.74	56.02	74.00	-17.98	peak
12	5350.000	37.58	6.74	44.32	54.00	-9.68	AVG
13	5372.640	51.26	6.80	58.06	74.00	-15.94	peak
14	5372.640	38.20	6.80	45.00	54.00	-9.00	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 120 V/60 Hz
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 120 V/60 Hz
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

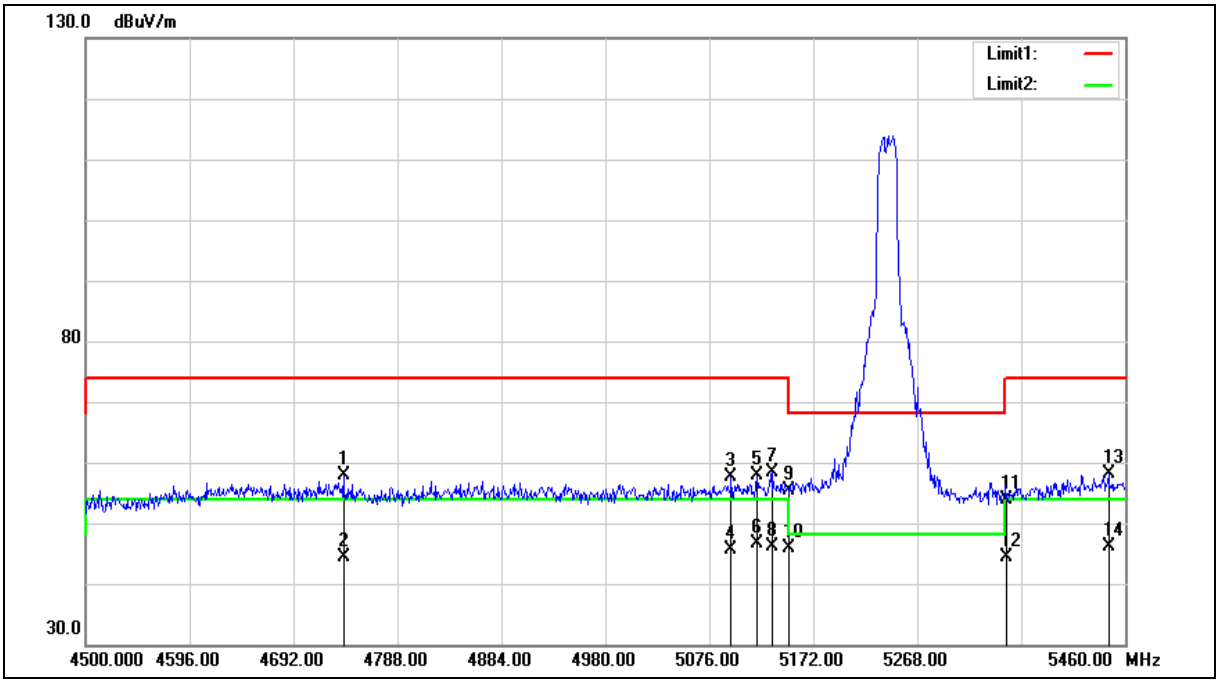
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4886.880	51.84	5.69	57.53	74.00	-16.47	peak
2	4886.880	39.09	5.69	44.78	54.00	-9.22	AVG
3	5100.000	51.72	6.15	57.87	74.00	-16.13	peak
4	5100.000	39.29	6.15	45.44	54.00	-8.56	AVG
5	5150.000	50.68	6.27	56.95	74.00	-17.05	peak
6	5150.000	40.00	6.27	46.27	54.00	-7.73	AVG
7	5350.000	47.43	6.74	54.17	74.00	-19.83	peak
8	5350.000	37.50	6.74	44.24	54.00	-9.76	AVG
9	5380.320	50.72	6.81	57.53	74.00	-16.47	peak
10	5380.320	38.17	6.81	44.98	54.00	-9.02	AVG
11	5457.120	51.16	7.00	58.16	74.00	-15.84	peak
12	5457.120	39.15	7.00	46.15	54.00	-7.85	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
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 120 V/60 Hz
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

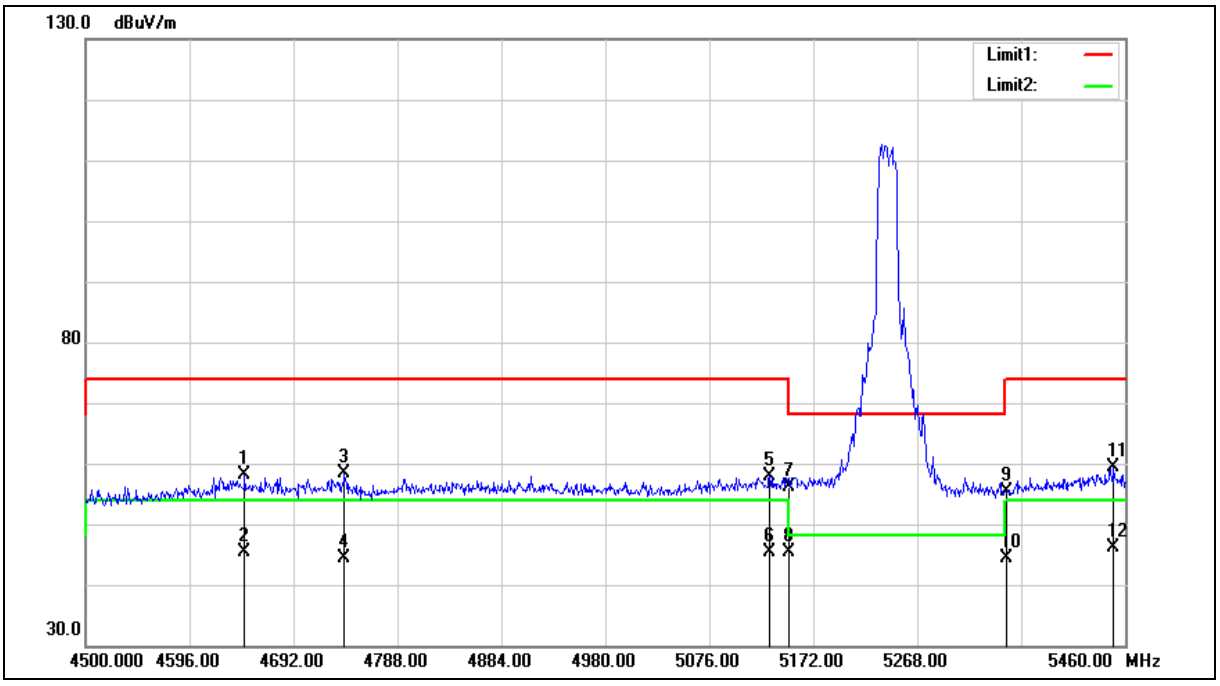
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4738.080	52.48	5.41	57.89	74.00	-16.11	peak
2	4738.080	39.09	5.41	44.50	54.00	-9.50	AVG
3	5096.160	51.41	6.14	57.55	74.00	-16.45	peak
4	5096.160	39.55	6.14	45.69	54.00	-8.31	AVG
5	5120.160	51.69	6.20	57.89	74.00	-16.11	peak
6	5120.160	40.49	6.20	46.69	54.00	-7.31	AVG
7	5134.560	52.07	6.23	58.30	74.00	-15.70	peak
8	5134.560	39.85	6.23	46.08	54.00	-7.92	AVG
9	5150.000	49.20	6.27	55.47	74.00	-18.53	peak
10	5150.000	39.72	6.27	45.99	54.00	-8.01	AVG
11	5350.000	47.17	6.74	53.91	74.00	-20.09	peak
12	5350.000	37.76	6.74	44.50	54.00	-9.50	AVG
13	5444.640	51.12	6.97	58.09	74.00	-15.91	peak
14	5444.640	39.26	6.97	46.23	54.00	-7.77	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
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 120 V/60 Hz
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

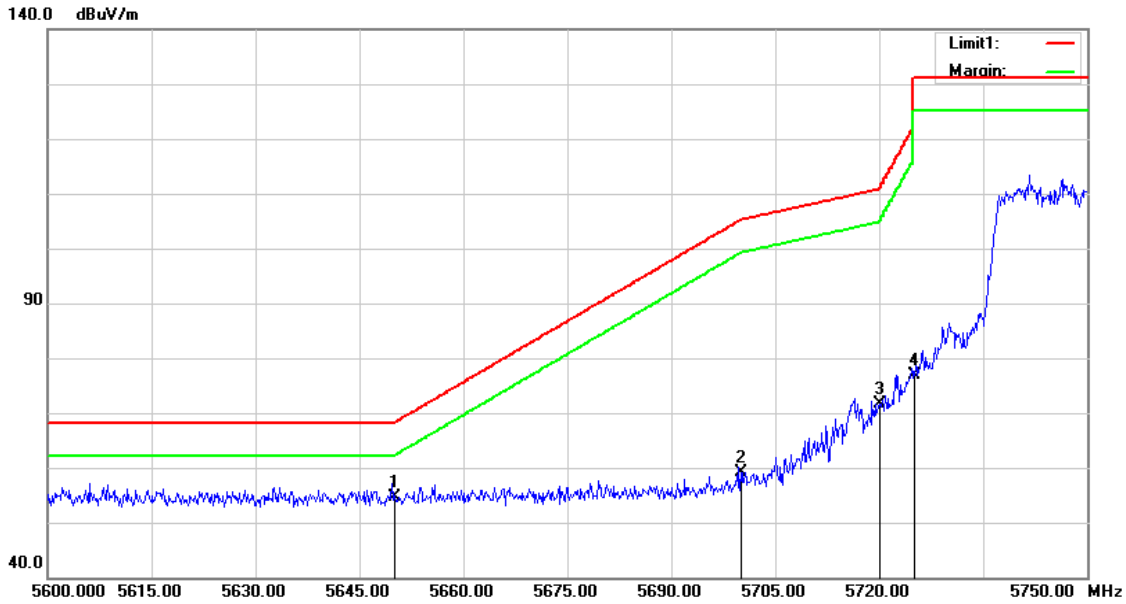
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4646.880	52.79	5.23	58.02	74.00	-15.98	peak
2	4646.880	40.20	5.23	45.43	54.00	-8.57	AVG
3	4739.040	53.09	5.41	58.50	74.00	-15.50	peak
4	4739.040	38.96	5.41	44.37	54.00	-9.63	AVG
5	5131.680	51.64	6.22	57.86	74.00	-16.14	peak
6	5131.680	39.26	6.22	45.48	54.00	-8.52	AVG
7	5150.000	49.78	6.27	56.05	74.00	-17.95	peak
8	5150.000	39.18	6.27	45.45	54.00	-8.55	AVG
9	5350.000	48.52	6.74	55.26	74.00	-18.74	peak
10	5350.000	37.66	6.74	44.40	54.00	-9.60	AVG
11	5449.440	52.34	6.98	59.32	74.00	-14.68	peak
12	5449.440	39.10	6.98	46.08	54.00	-7.92	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



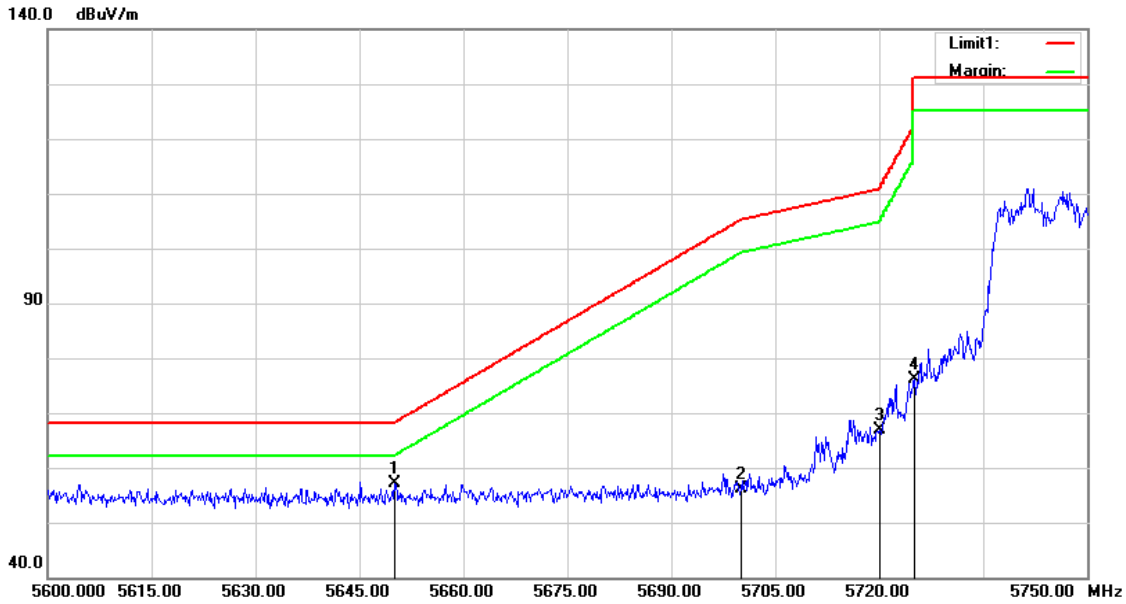
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.32	7.42	54.74	68.20	-13.46	peak
2	5700.000	51.56	7.52	59.08	105.20	-46.12	peak
3	5720.000	64.03	7.56	71.59	110.80	-39.21	peak
4	5725.000	69.28	7.57	76.85	122.20	-45.35	peak

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 120 V/60 Hz
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



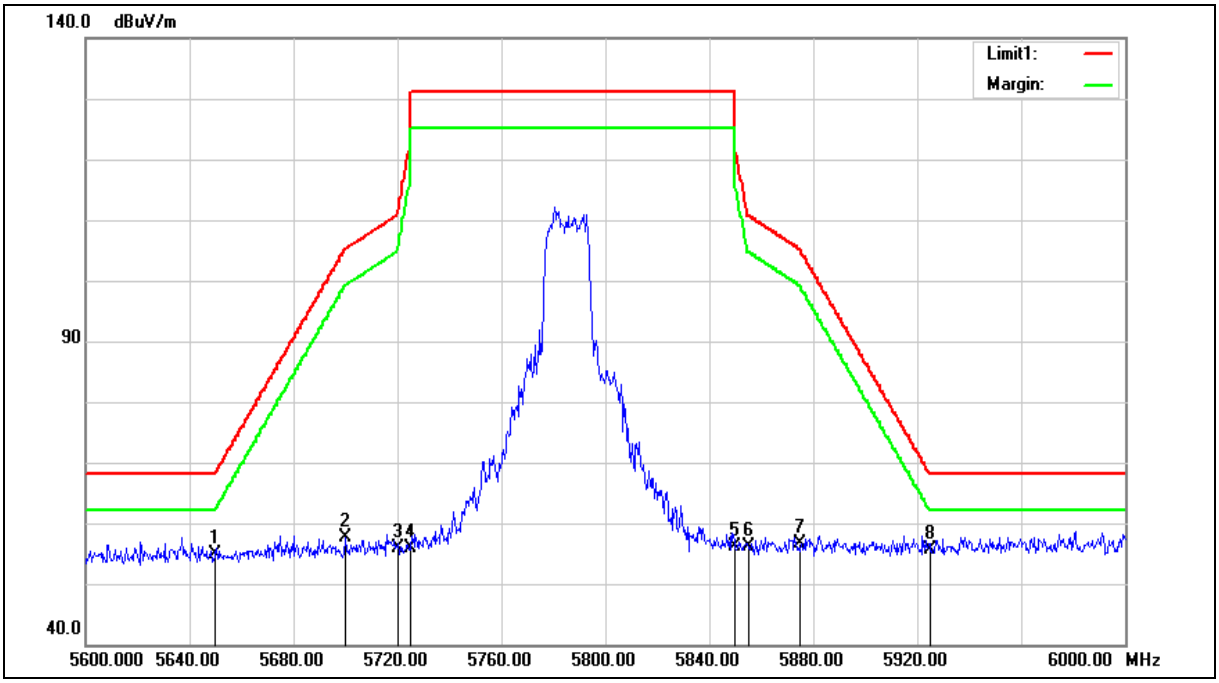
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	49.60	7.42	57.02	68.20	-11.18	peak
2	5700.000	48.65	7.52	56.17	105.20	-49.03	peak
3	5720.000	59.26	7.56	66.82	110.80	-43.98	peak
4	5725.000	68.53	7.57	76.10	122.20	-46.10	peak

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 120 V/60 Hz
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 120 V/60 Hz
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

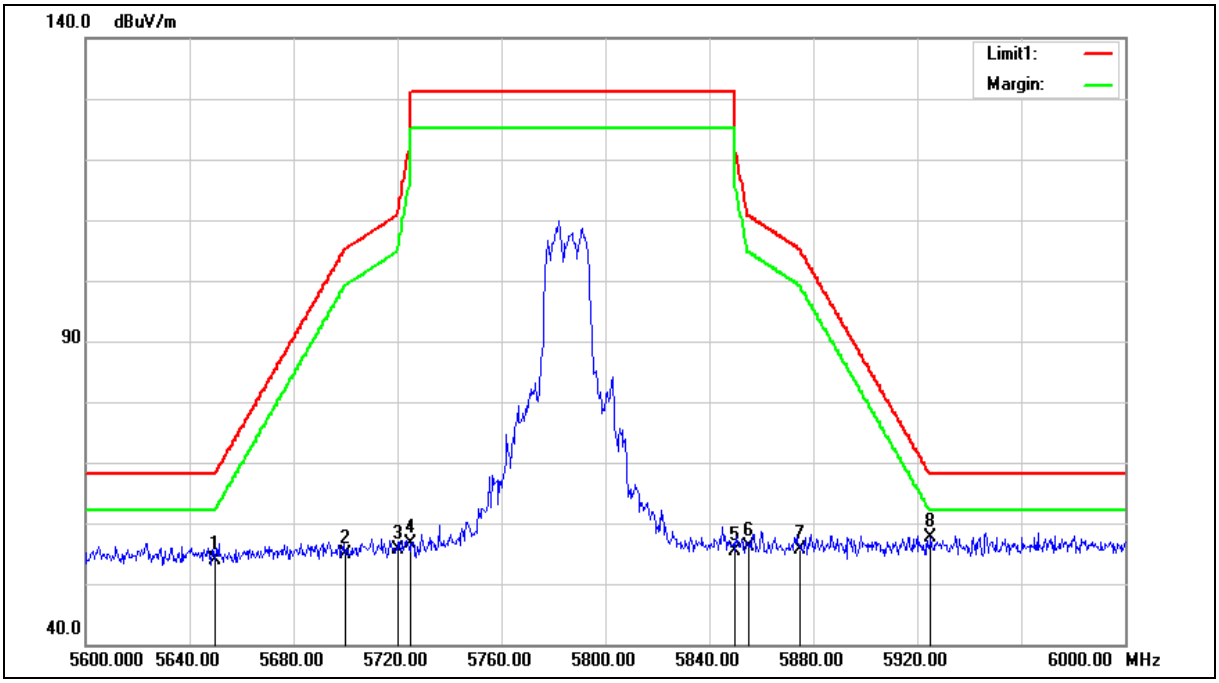
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.36	7.42	54.78	68.20	-13.42	peak
2	5700.000	50.06	7.52	57.58	105.20	-47.62	peak
3	5720.000	48.22	7.56	55.78	110.80	-55.02	peak
4	5725.000	48.40	7.57	55.97	122.20	-66.23	peak
5	5850.000	48.29	7.83	56.12	122.20	-66.08	peak
6	5855.000	48.32	7.85	56.17	110.80	-54.63	peak
7	5875.000	48.63	7.88	56.51	105.20	-48.69	peak
8	5925.000	47.56	8.00	55.56	68.20	-12.64	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 120 V/60 Hz
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 120 V/60 Hz
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

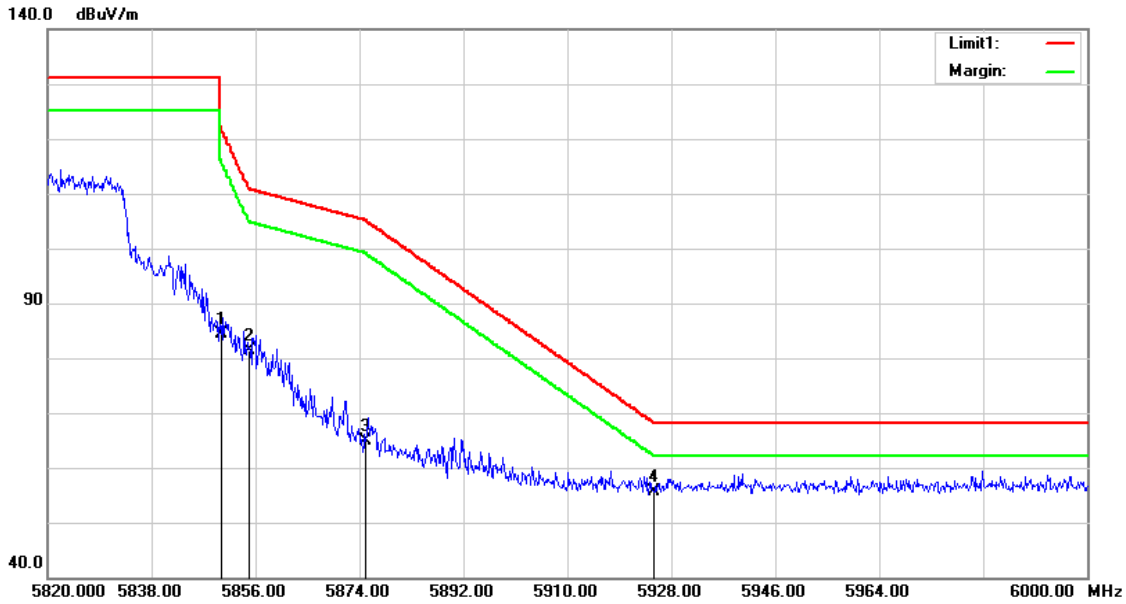
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	46.48	7.42	53.90	68.20	-14.30	peak
2	5700.000	47.29	7.52	54.81	105.20	-50.39	peak
3	5720.000	48.10	7.56	55.66	110.80	-55.14	peak
4	5725.000	49.01	7.57	56.58	122.20	-65.62	peak
5	5850.000	47.67	7.83	55.50	122.20	-66.70	peak
6	5855.000	48.35	7.85	56.20	110.80	-54.60	peak
7	5875.000	47.77	7.88	55.65	105.20	-49.55	peak
8	5925.000	49.70	8.00	57.70	68.20	-10.50	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



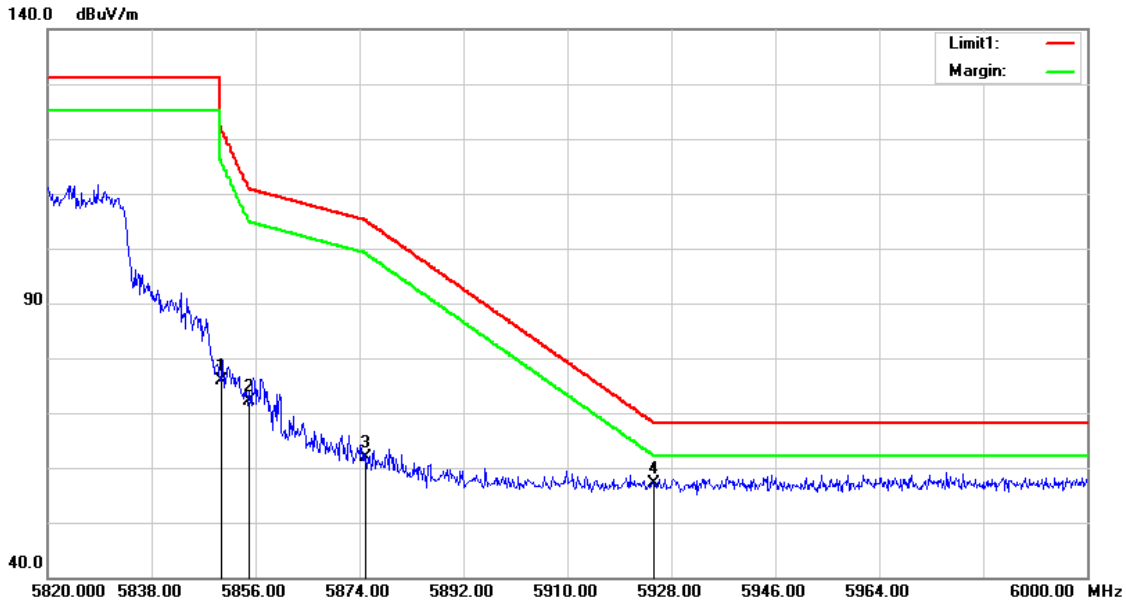
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	76.43	7.83	84.26	122.20	-37.94	peak
2	5855.000	73.41	7.85	81.26	110.80	-29.54	peak
3	5875.000	56.98	7.88	64.86	105.20	-40.34	peak
4	5925.000	47.63	8.00	55.63	68.20	-12.57	peak

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 120 V/60 Hz
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



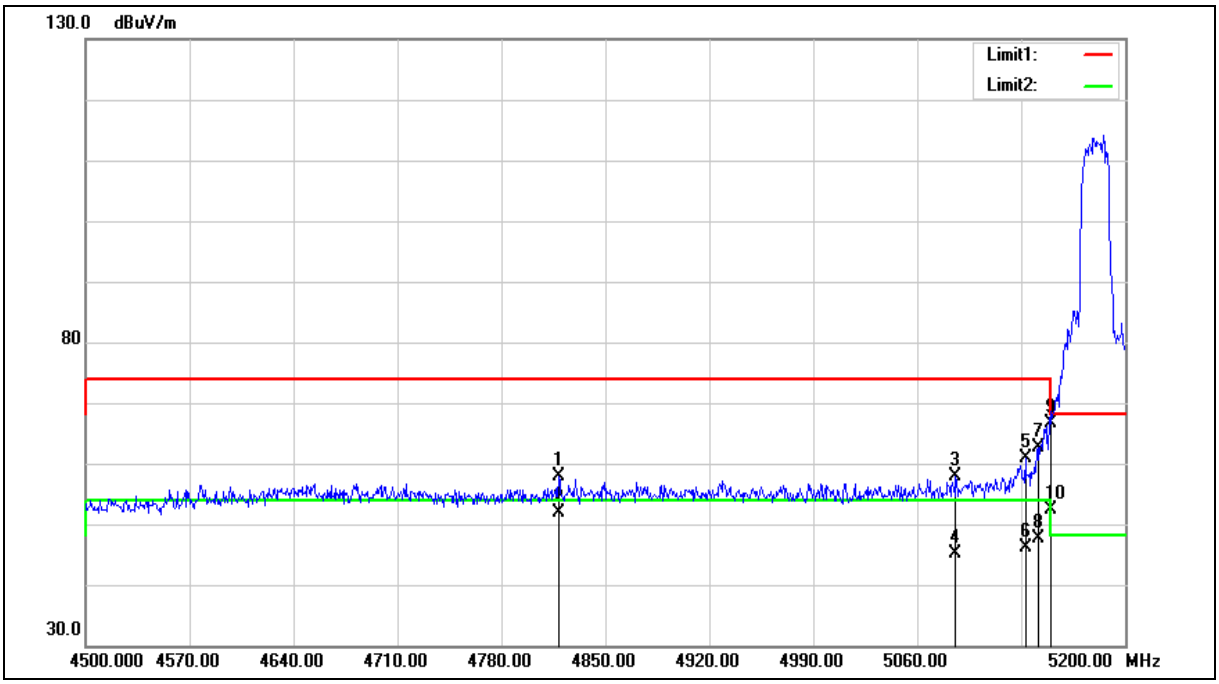
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	68.10	7.83	75.93	122.20	-46.27	peak
2	5855.000	64.22	7.85	72.07	110.80	-38.73	peak
3	5875.000	53.98	7.88	61.86	105.20	-43.34	peak
4	5925.000	49.19	8.00	57.19	68.20	-11.01	peak

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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

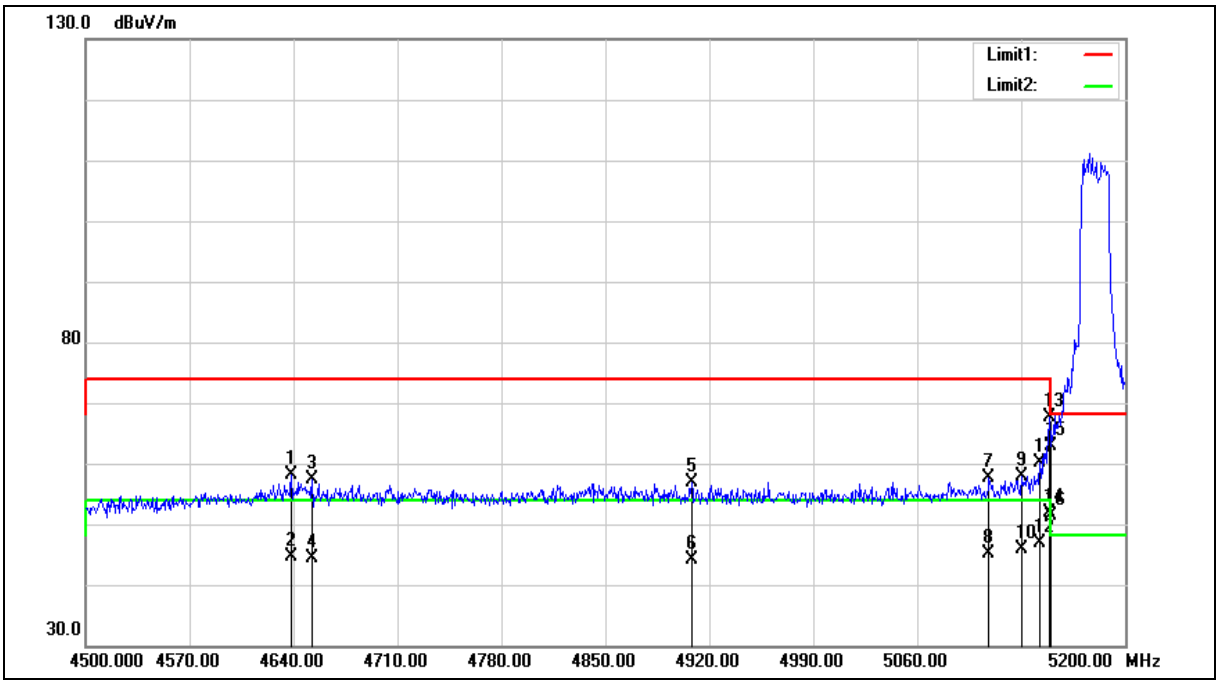
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4818.500	52.22	5.56	57.78	74.00	-16.22	peak
2	4818.500	46.35	5.56	51.91	54.00	-2.09	AVG
3	5085.900	51.68	6.11	57.79	74.00	-16.21	peak
4	5085.900	39.00	6.11	45.11	54.00	-8.89	AVG
5	5132.800	54.73	6.22	60.95	74.00	-13.05	peak
6	5132.800	40.03	6.22	46.25	54.00	-7.75	AVG
7	5141.200	56.37	6.25	62.62	74.00	-11.38	peak
8	5141.200	41.27	6.25	47.52	54.00	-6.48	AVG
9	5150.000	60.37	6.27	66.64	74.00	-7.36	peak
10	5150.000	46.10	6.27	52.37	54.00	-1.63	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5180 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

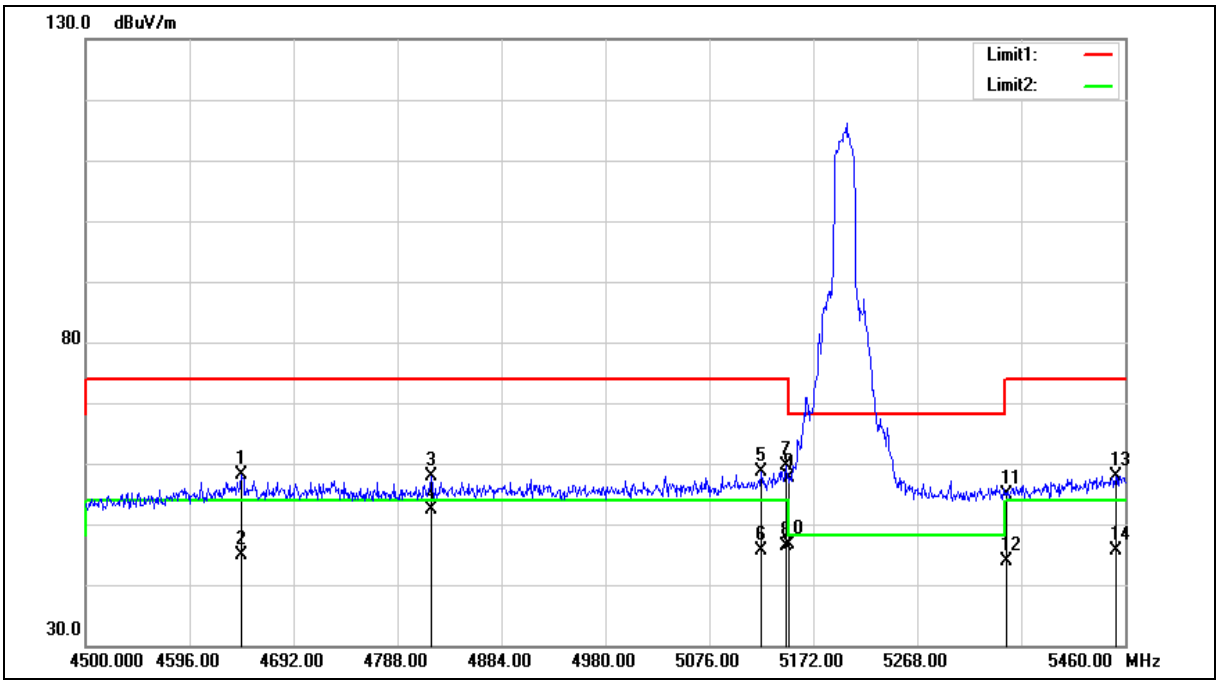
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4638.600	52.91	5.23	58.14	74.00	-15.86	peak
2	4638.600	39.48	5.23	44.71	54.00	-9.29	AVG
3	4652.600	52.12	5.25	57.37	74.00	-16.63	peak
4	4652.600	39.03	5.25	44.28	54.00	-9.72	AVG
5	4908.100	51.19	5.74	56.93	74.00	-17.07	peak
6	4908.100	38.34	5.74	44.08	54.00	-9.92	AVG
7	5108.300	51.44	6.17	57.61	74.00	-16.39	peak
8	5108.300	38.85	6.17	45.02	54.00	-8.98	AVG
9	5130.000	51.71	6.22	57.93	74.00	-16.07	peak
10	5130.000	39.61	6.22	45.83	54.00	-8.17	AVG
11	5142.600	53.88	6.25	60.13	74.00	-13.87	peak
12	5142.600	40.70	6.25	46.95	54.00	-7.05	AVG
13	5148.900	61.36	6.27	67.63	74.00	-6.37	peak
14	5148.900	45.64	6.27	51.91	54.00	-2.09	AVG
15	5150.000	56.70	6.27	62.97	74.00	-11.03	peak
16	5150.000	45.20	6.27	51.47	54.00	-2.53	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 120 V/60 Hz
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

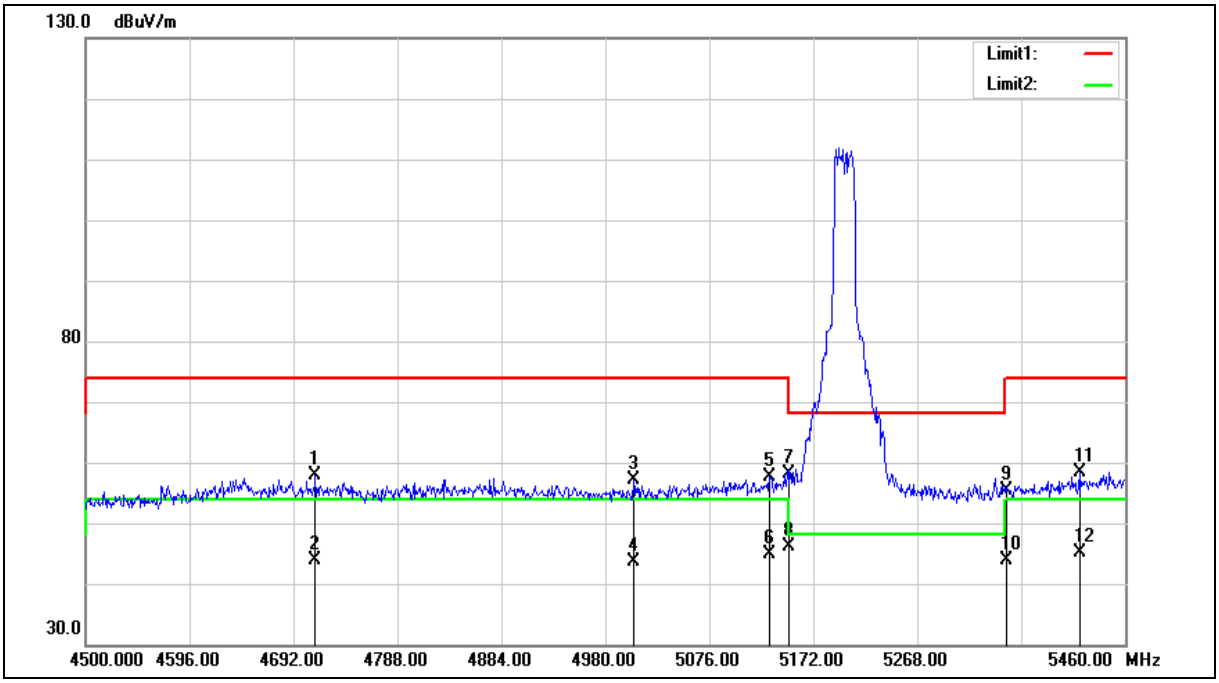
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4644.000	52.92	5.24	58.16	74.00	-15.84	peak
2	4644.000	39.60	5.24	44.84	54.00	-9.16	AVG
3	4819.680	52.32	5.56	57.88	74.00	-16.12	peak
4	4819.680	46.90	5.56	52.46	54.00	-1.54	AVG
5	5124.000	52.37	6.21	58.58	74.00	-15.42	peak
6	5124.000	39.36	6.21	45.57	54.00	-8.43	AVG
7	5147.040	53.39	6.26	59.65	74.00	-14.35	peak
8	5147.040	40.14	6.26	46.40	54.00	-7.60	AVG
9	5150.000	51.29	6.27	57.56	74.00	-16.44	peak
10	5150.000	40.25	6.27	46.52	54.00	-7.48	AVG
11	5350.000	48.06	6.74	54.80	74.00	-19.20	peak
12	5350.000	37.14	6.74	43.88	54.00	-10.12	AVG
13	5451.360	50.94	6.99	57.93	74.00	-16.07	peak
14	5451.360	38.64	6.99	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 120 V/60 Hz
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5200 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

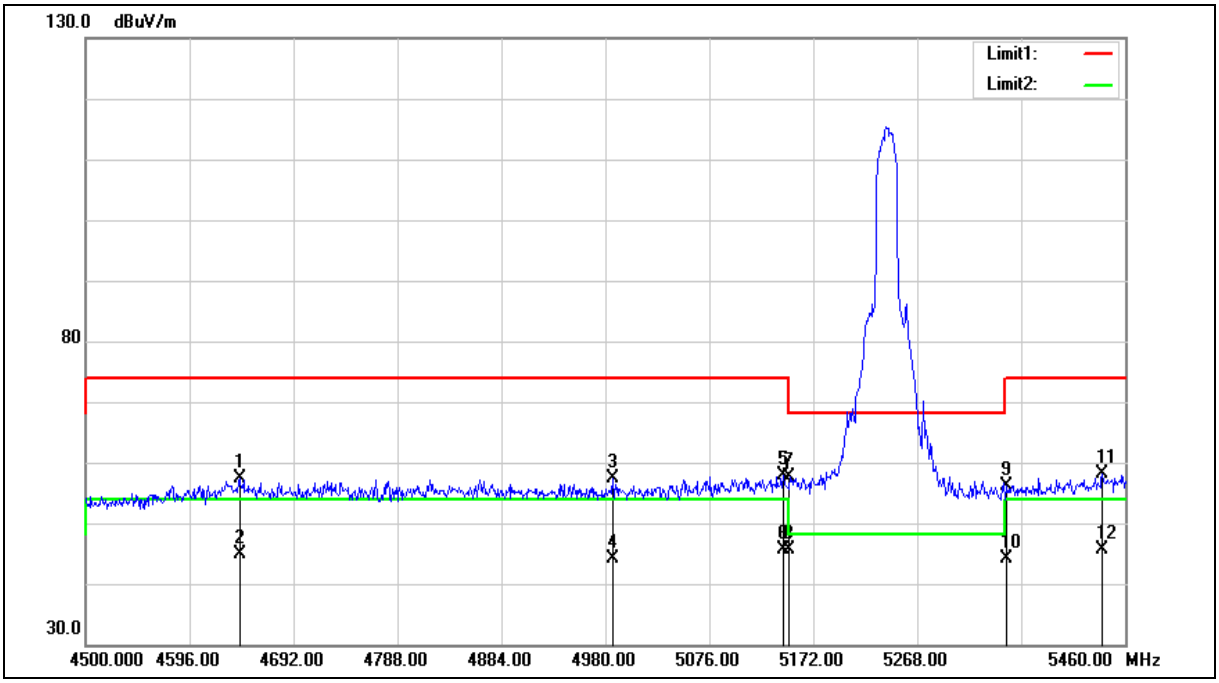
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4712.160	52.42	5.36	57.78	74.00	-16.22	peak
2	4712.160	38.63	5.36	43.99	54.00	-10.01	AVG
3	5005.920	51.17	5.92	57.09	74.00	-16.91	peak
4	5005.920	37.74	5.92	43.66	54.00	-10.34	AVG
5	5131.680	51.36	6.22	57.58	74.00	-16.42	peak
6	5131.680	38.74	6.22	44.96	54.00	-9.04	AVG
7	5150.000	51.90	6.27	58.17	74.00	-15.83	peak
8	5150.000	39.93	6.27	46.20	54.00	-7.80	AVG
9	5350.000	48.52	6.74	55.26	74.00	-18.74	peak
10	5350.000	37.13	6.74	43.87	54.00	-10.13	AVG
11	5417.760	51.49	6.91	58.40	74.00	-15.60	peak
12	5417.760	38.21	6.91	45.12	54.00	-8.88	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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

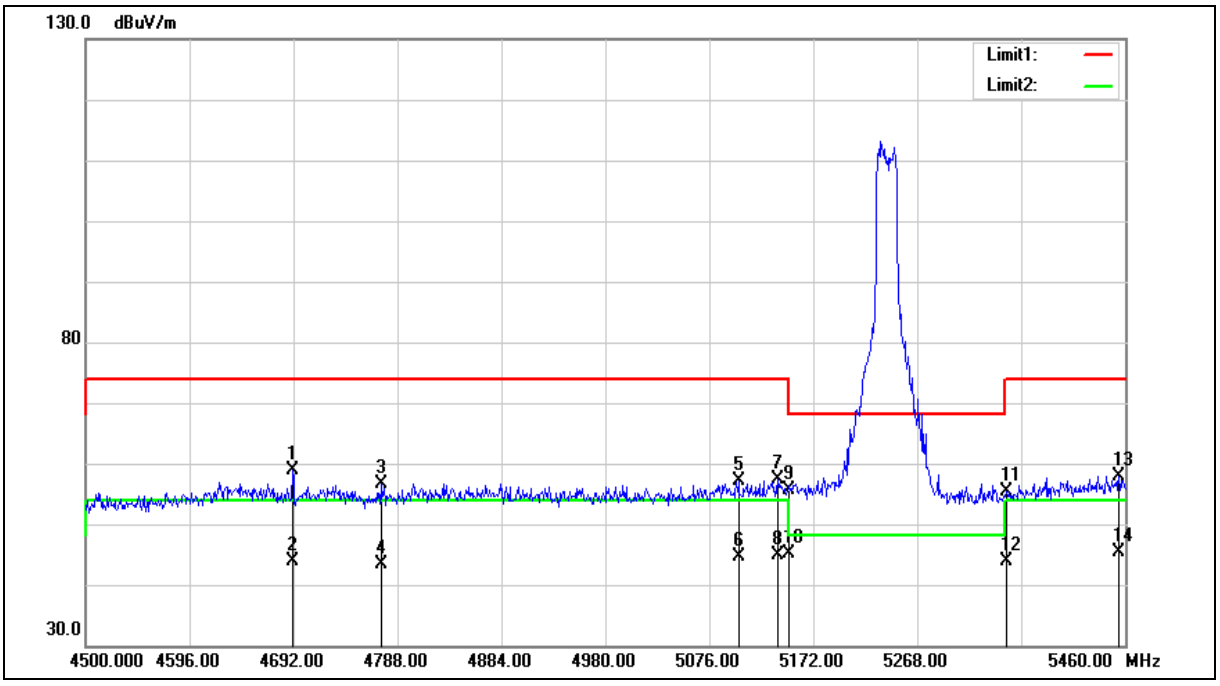
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4642.080	52.15	5.23	57.38	74.00	-16.62	peak
2	4642.080	39.67	5.23	44.90	54.00	-9.10	AVG
3	4986.720	51.53	5.88	57.41	74.00	-16.59	peak
4	4986.720	38.33	5.88	44.21	54.00	-9.79	AVG
5	5144.160	51.65	6.26	57.91	74.00	-16.09	peak
6	5144.160	39.45	6.26	45.71	54.00	-8.29	AVG
7	5150.000	51.38	6.27	57.65	74.00	-16.35	peak
8	5150.000	39.27	6.27	45.54	54.00	-8.46	AVG
9	5350.000	49.27	6.74	56.01	74.00	-17.99	peak
10	5350.000	37.29	6.74	44.03	54.00	-9.97	AVG
11	5438.880	51.08	6.96	58.04	74.00	-15.96	peak
12	5438.880	38.71	6.96	45.67	54.00	-8.33	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 120 V/60 Hz
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5240 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

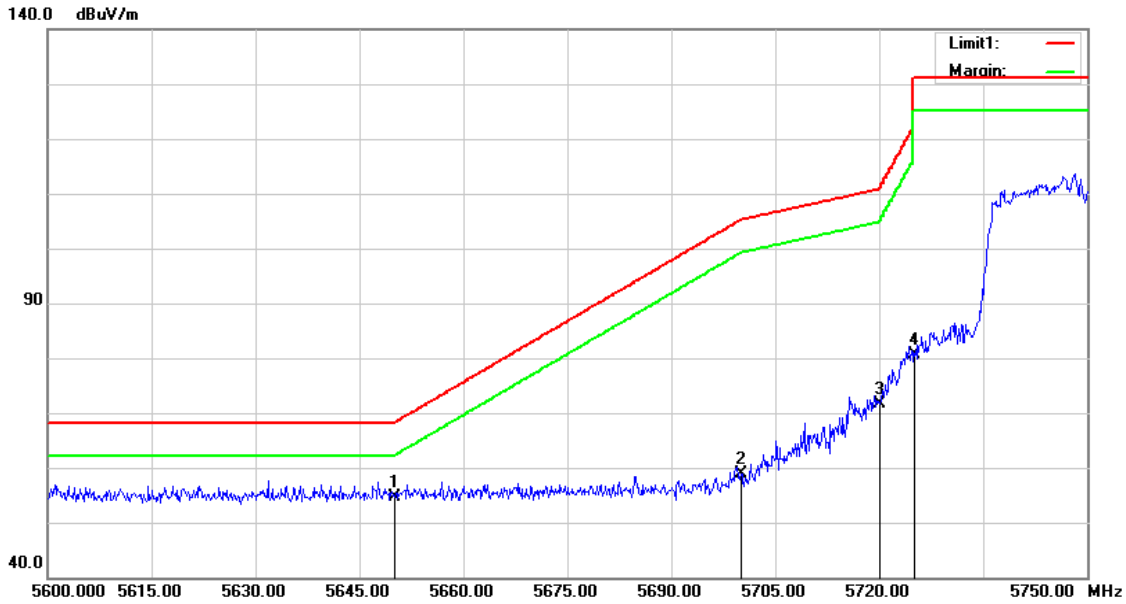
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4691.040	53.59	5.31	58.90	74.00	-15.10	peak
2	4691.040	38.69	5.31	44.00	54.00	-10.00	AVG
3	4772.640	51.24	5.48	56.72	74.00	-17.28	peak
4	4772.640	37.92	5.48	43.40	54.00	-10.60	AVG
5	5102.880	50.86	6.16	57.02	74.00	-16.98	peak
6	5102.880	38.47	6.16	44.63	54.00	-9.37	AVG
7	5139.360	51.11	6.25	57.36	74.00	-16.64	peak
8	5139.360	38.56	6.25	44.81	54.00	-9.19	AVG
9	5150.000	49.32	6.27	55.59	74.00	-18.41	peak
10	5150.000	38.95	6.27	45.22	54.00	-8.78	AVG
11	5350.000	48.67	6.74	55.41	74.00	-18.59	peak
12	5350.000	37.26	6.74	44.00	54.00	-10.00	AVG
13	5454.240	50.99	6.99	57.98	74.00	-16.02	peak
14	5454.240	38.48	6.99	45.47	54.00	-8.53	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 120 V/60 Hz
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



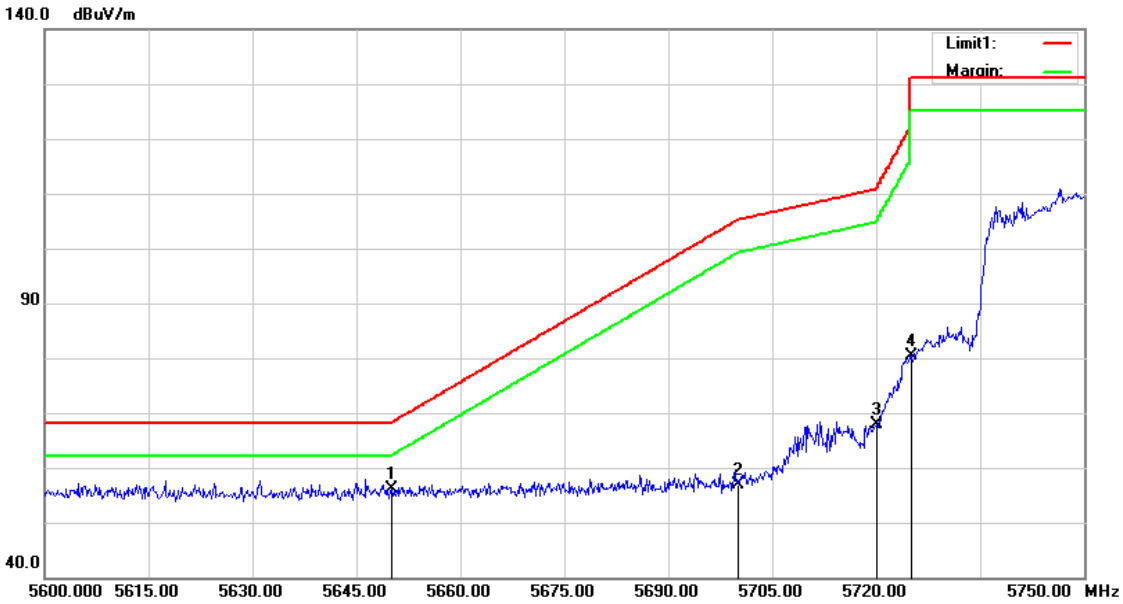
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.14	7.42	54.56	68.20	-13.64	peak
2	5700.000	51.27	7.52	58.79	105.20	-46.41	peak
3	5720.000	64.11	7.56	71.67	110.80	-39.13	peak
4	5725.000	73.18	7.57	80.75	122.20	-41.45	peak

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 120 V/60 Hz
Frequency:	5745 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



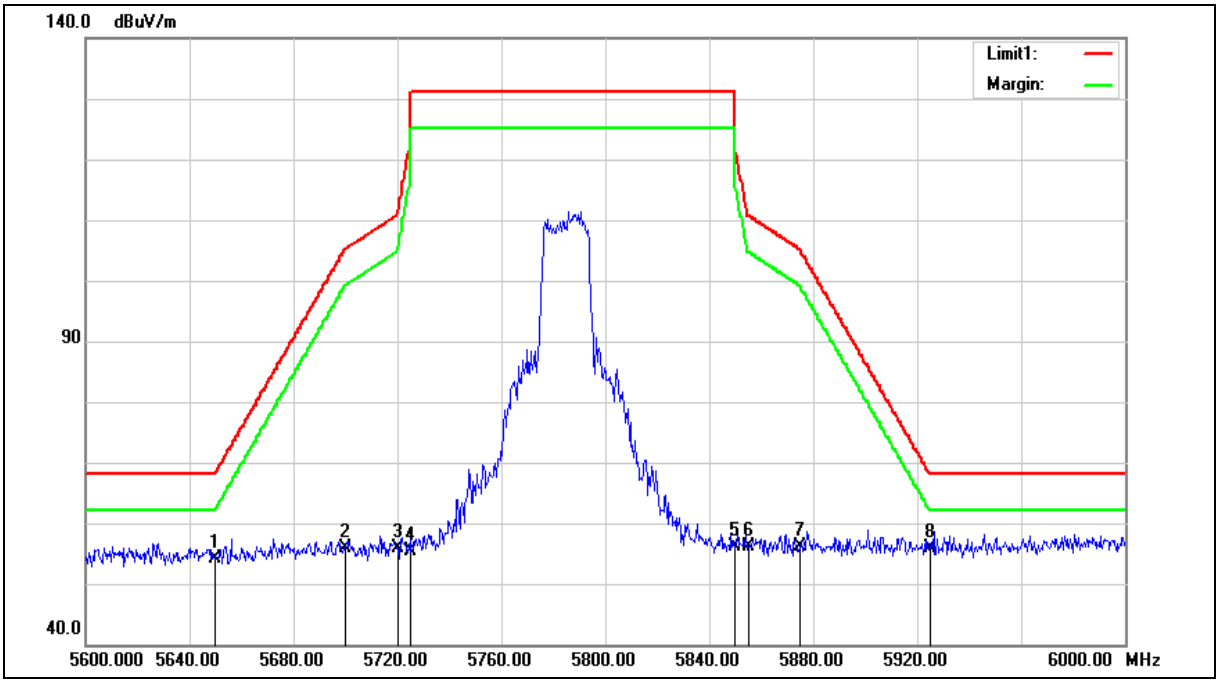
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	48.70	7.42	56.12	68.20	-12.08	peak
2	5700.000	49.48	7.52	57.00	105.20	-48.20	peak
3	5720.000	60.26	7.56	67.82	110.80	-42.98	peak
4	5725.000	72.70	7.57	80.27	122.20	-41.93	peak

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 120 V/60 Hz
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

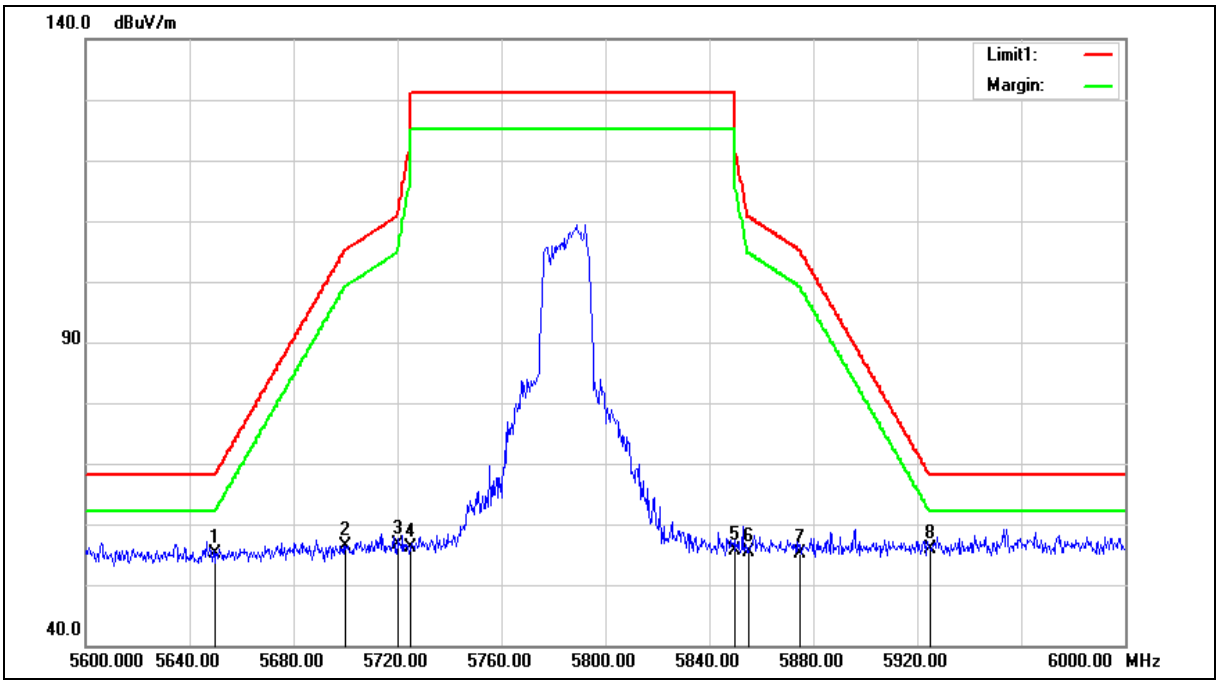
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	46.71	7.42	54.13	68.20	-14.07	peak
2	5700.000	48.28	7.52	55.80	105.20	-49.40	peak
3	5720.000	48.41	7.56	55.97	110.80	-54.83	peak
4	5725.000	47.89	7.57	55.46	122.20	-66.74	peak
5	5850.000	48.36	7.83	56.19	122.20	-66.01	peak
6	5855.000	48.18	7.85	56.03	110.80	-54.77	peak
7	5875.000	48.17	7.88	56.05	105.20	-49.15	peak
8	5925.000	47.90	8.00	55.90	68.20	-12.30	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5785 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

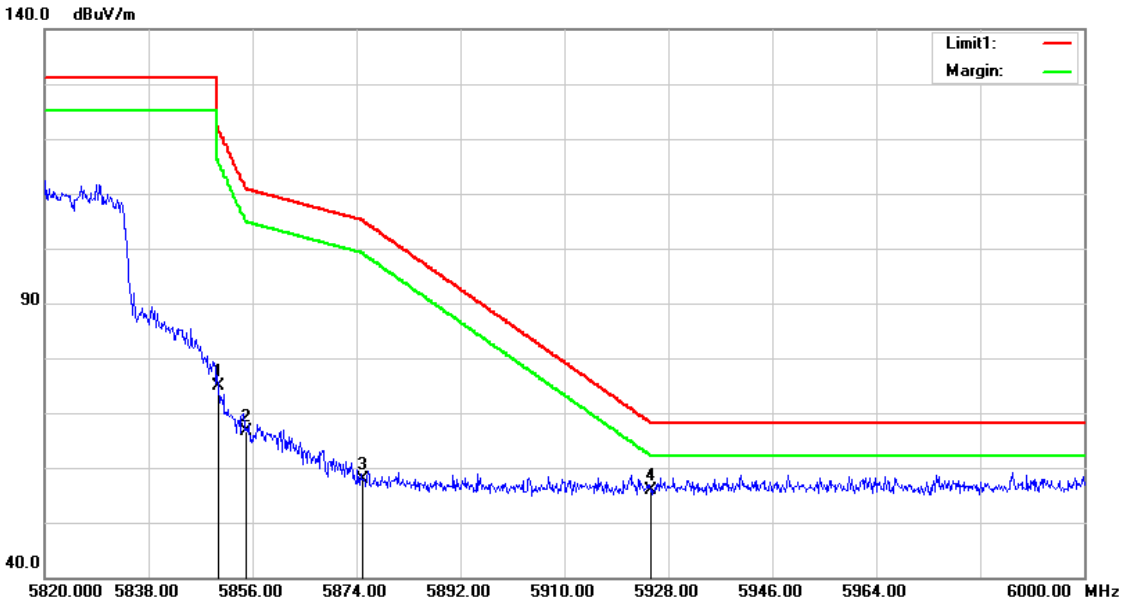
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.76	7.42	55.18	68.20	-13.02	peak
2	5700.000	48.76	7.52	56.28	105.20	-48.92	peak
3	5720.000	48.95	7.56	56.51	110.80	-54.29	peak
4	5725.000	48.52	7.57	56.09	122.20	-66.11	peak
5	5850.000	47.84	7.83	55.67	122.20	-66.53	peak
6	5855.000	47.64	7.85	55.49	110.80	-55.31	peak
7	5875.000	47.25	7.88	55.13	105.20	-50.07	peak
8	5925.000	47.88	8.00	55.88	68.20	-12.32	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 120 V/60 Hz
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



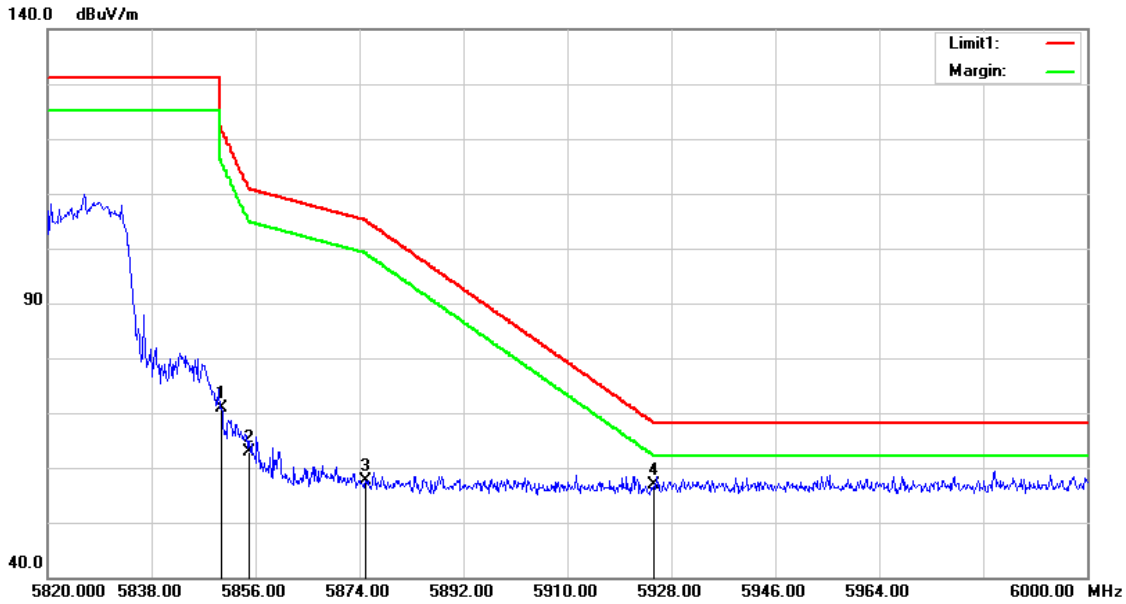
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	67.11	7.83	74.94	122.20	-47.26	peak
2	5855.000	58.88	7.85	66.73	110.80	-44.07	peak
3	5875.000	50.09	7.88	57.97	105.20	-47.23	peak
4	5925.000	47.89	8.00	55.89	68.20	-12.31	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5825 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



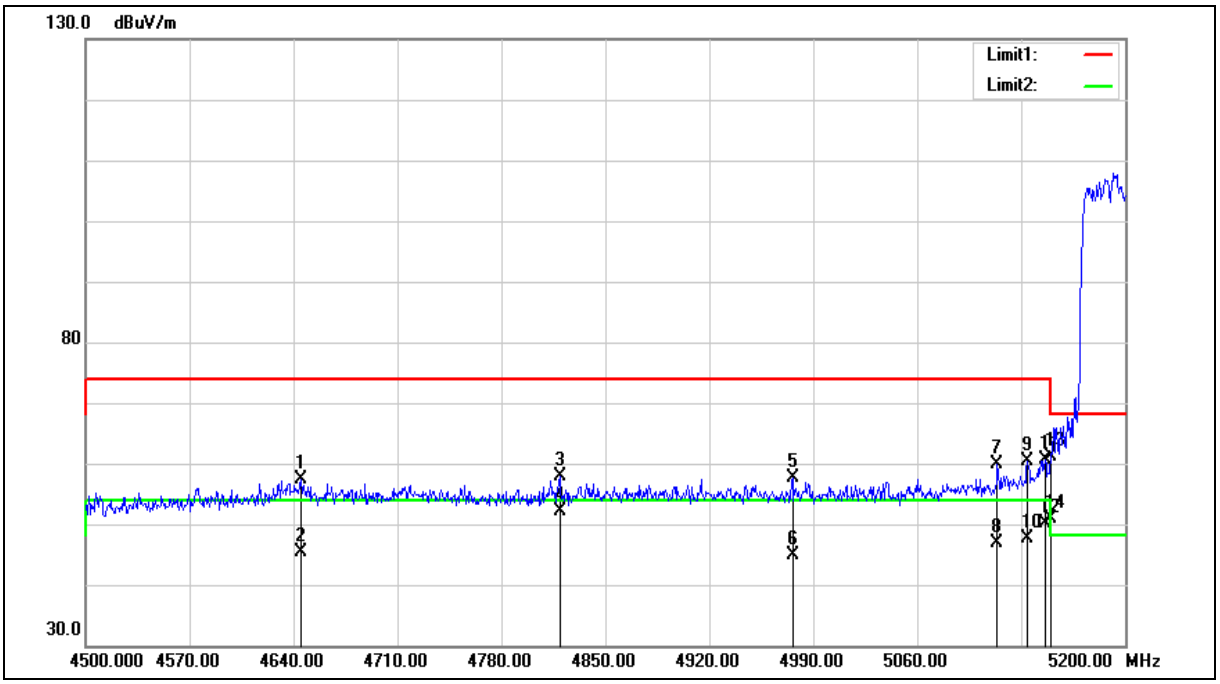
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	63.09	7.83	70.92	122.20	-51.28	peak
2	5855.000	54.93	7.85	62.78	110.80	-48.02	peak
3	5875.000	49.64	7.88	57.52	105.20	-47.68	peak
4	5925.000	48.80	8.00	56.80	68.20	-11.40	peak

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 120 V/60 Hz
Frequency:	5190 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5190 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		

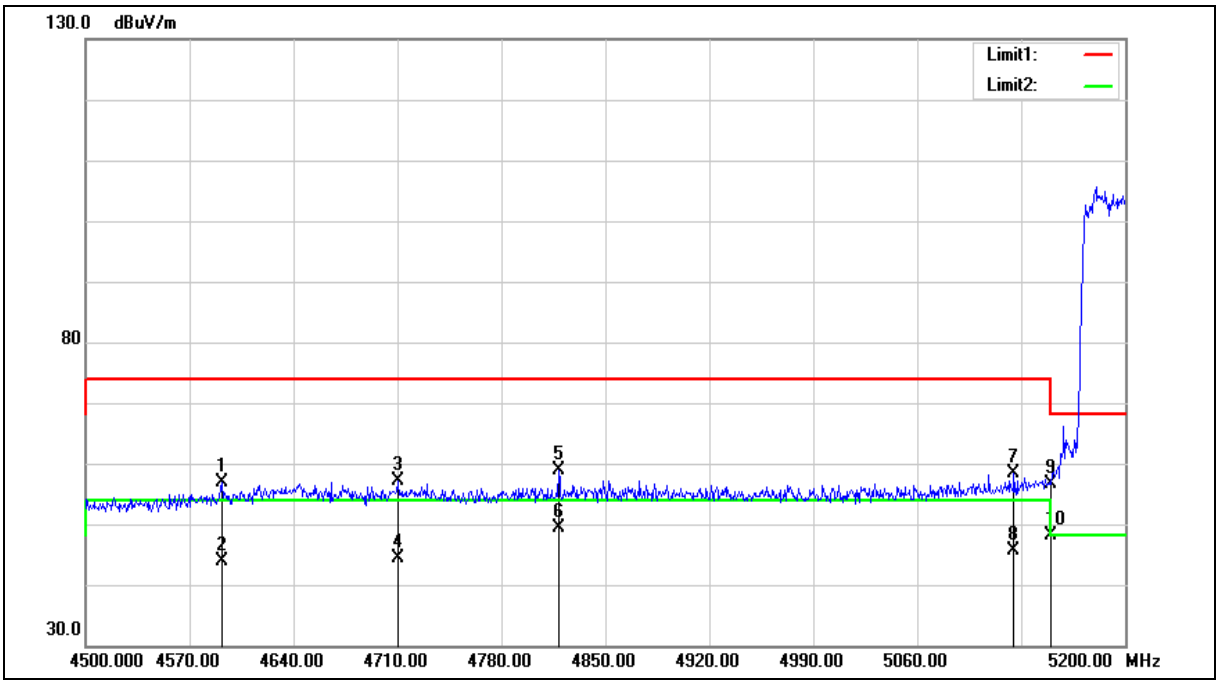
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4644.900	52.23	5.24	57.47	74.00	-16.53	peak
2	4644.900	40.09	5.24	45.33	54.00	-8.67	AVG
3	4819.200	52.26	5.56	57.82	74.00	-16.18	peak
4	4819.200	46.62	5.56	52.18	54.00	-1.82	AVG
5	4976.000	51.79	5.87	57.66	74.00	-16.34	peak
6	4976.000	39.02	5.87	44.89	54.00	-9.11	AVG
7	5113.900	53.58	6.19	59.77	74.00	-14.23	peak
8	5113.900	40.64	6.19	46.83	54.00	-7.17	AVG
9	5134.200	54.27	6.23	60.50	74.00	-13.50	peak
10	5134.200	41.42	6.23	47.65	54.00	-6.35	AVG
11	5146.100	54.26	6.26	60.52	74.00	-13.48	peak
12	5146.100	43.88	6.26	50.14	54.00	-3.86	AVG
13	5150.000	54.94	6.27	61.21	74.00	-12.79	peak
14	5150.000	44.66	6.27	50.93	54.00	-3.07	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 120 V/60 Hz
Frequency:	5190 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5190 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		

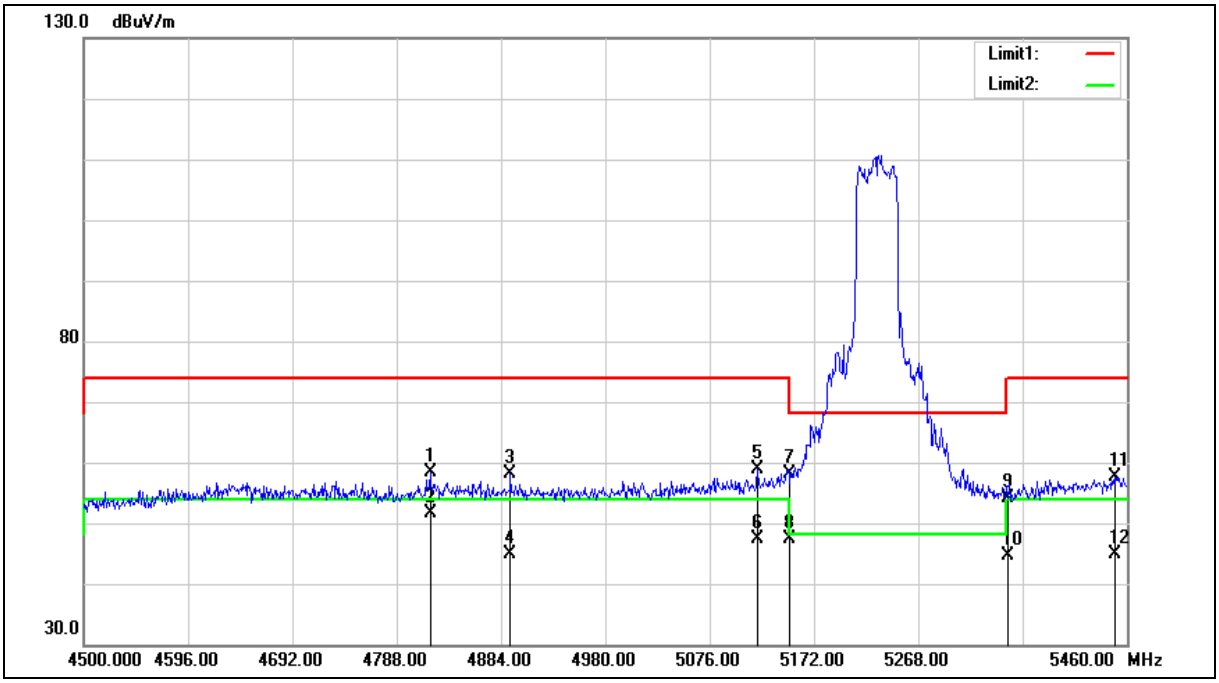
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4591.700	51.87	5.13	57.00	74.00	-17.00	peak
2	4591.700	38.67	5.13	43.80	54.00	-10.20	AVG
3	4710.000	51.85	5.36	57.21	74.00	-16.79	peak
4	4710.000	39.08	5.36	44.44	54.00	-9.56	AVG
5	4818.500	53.29	5.56	58.85	74.00	-15.15	peak
6	4818.500	43.83	5.56	49.39	54.00	-4.61	AVG
7	5125.100	52.18	6.21	58.39	74.00	-15.61	peak
8	5125.100	39.41	6.21	45.62	54.00	-8.38	AVG
9	5150.000	50.45	6.27	56.72	74.00	-17.28	peak
10	5150.000	41.86	6.27	48.13	54.00	-5.87	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5230 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5230 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		

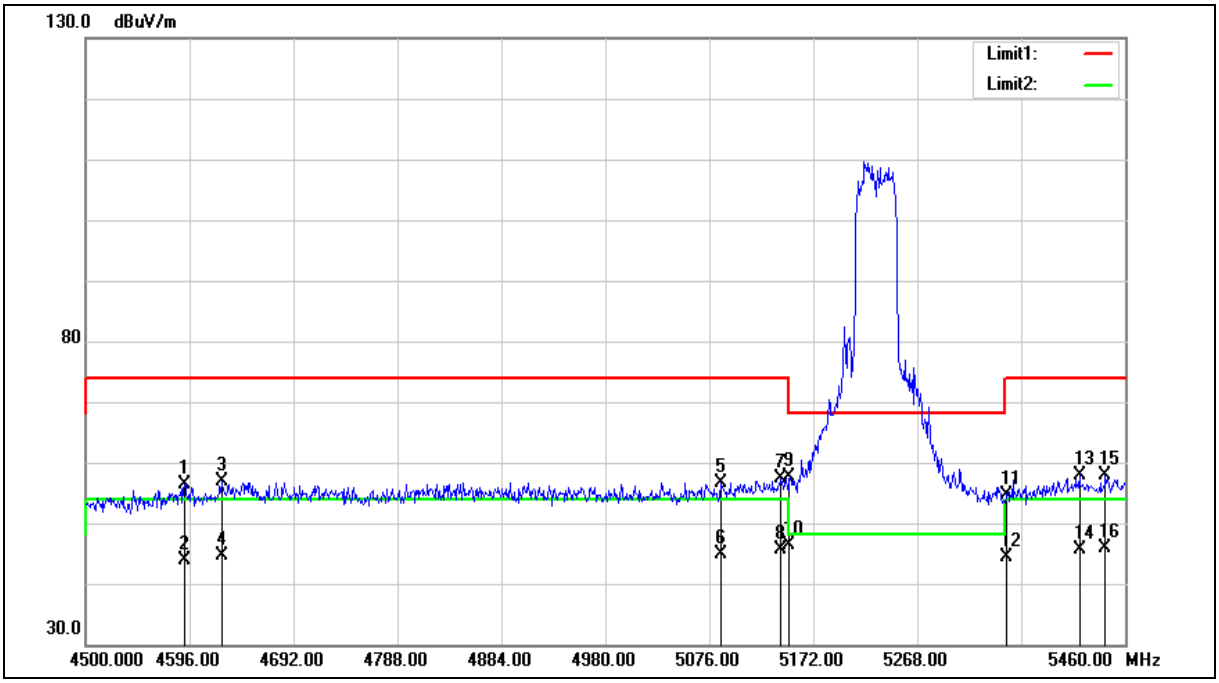
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4818.720	52.79	5.56	58.35	74.00	-15.65	peak
2	4818.720	46.08	5.56	51.64	54.00	-2.36	AVG
3	4892.640	52.37	5.71	58.08	74.00	-15.92	peak
4	4892.640	39.07	5.71	44.78	54.00	-9.22	AVG
5	5120.160	52.58	6.20	58.78	74.00	-15.22	peak
6	5120.160	41.08	6.20	47.28	54.00	-6.72	AVG
7	5150.000	51.86	6.27	58.13	74.00	-15.87	peak
8	5150.000	41.21	6.27	47.48	54.00	-6.52	AVG
9	5350.000	47.42	6.74	54.16	74.00	-19.84	peak
10	5350.000	37.78	6.74	44.52	54.00	-9.48	AVG
11	5448.480	50.59	6.98	57.57	74.00	-16.43	peak
12	5448.480	37.99	6.98	44.97	54.00	-9.03	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 120 V/60 Hz
Frequency:	5230 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5230 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		

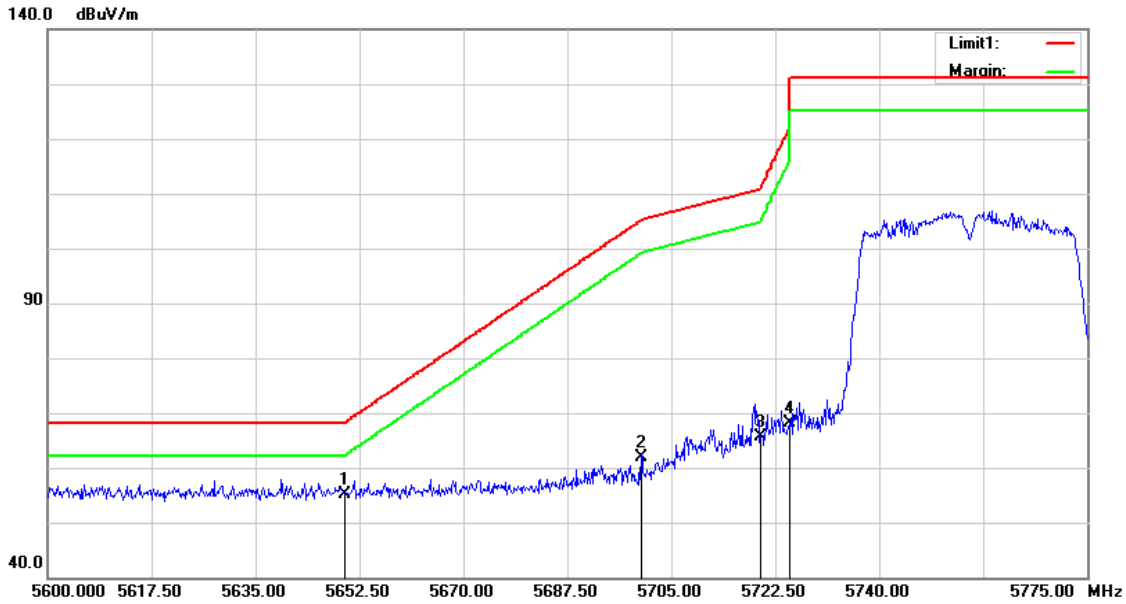
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4591.200	51.16	5.13	56.29	74.00	-17.71	peak
2	4591.200	38.74	5.13	43.87	54.00	-10.13	AVG
3	4625.760	51.64	5.19	56.83	74.00	-17.17	peak
4	4625.760	39.50	5.19	44.69	54.00	-9.31	AVG
5	5086.560	50.60	6.12	56.72	74.00	-17.28	peak
6	5086.560	38.73	6.12	44.85	54.00	-9.15	AVG
7	5142.240	51.08	6.25	57.33	74.00	-16.67	peak
8	5142.240	39.37	6.25	45.62	54.00	-8.38	AVG
9	5150.000	51.32	6.27	57.59	74.00	-16.41	peak
10	5150.000	40.17	6.27	46.44	54.00	-7.56	AVG
11	5350.000	47.92	6.74	54.66	74.00	-19.34	peak
12	5350.000	37.71	6.74	44.45	54.00	-9.55	AVG
13	5417.760	50.94	6.91	57.85	74.00	-16.15	peak
14	5417.760	38.63	6.91	45.54	54.00	-8.46	AVG
15	5441.760	50.91	6.97	57.88	74.00	-16.12	peak
16	5441.760	39.01	6.97	45.98	54.00	-8.02	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 120 V/60 Hz
Frequency:	5755 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



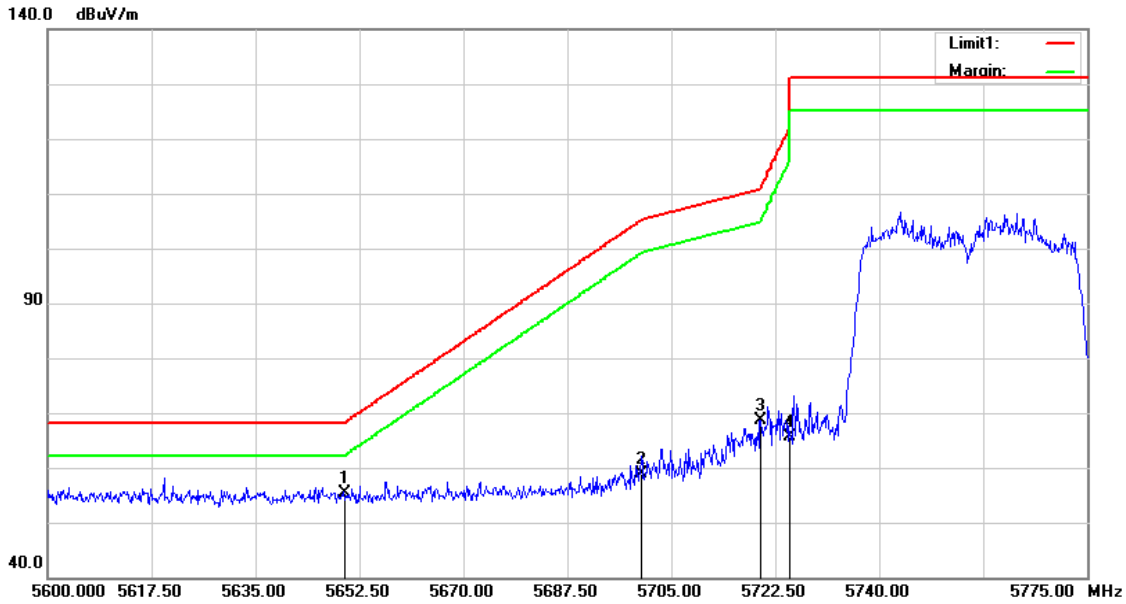
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.60	7.42	55.02	68.20	-13.18	peak
2	5700.000	54.40	7.52	61.92	105.20	-43.28	peak
3	5720.000	58.13	7.56	65.69	110.80	-45.11	peak
4	5725.000	60.58	7.57	68.15	122.20	-54.05	peak

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:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5755 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



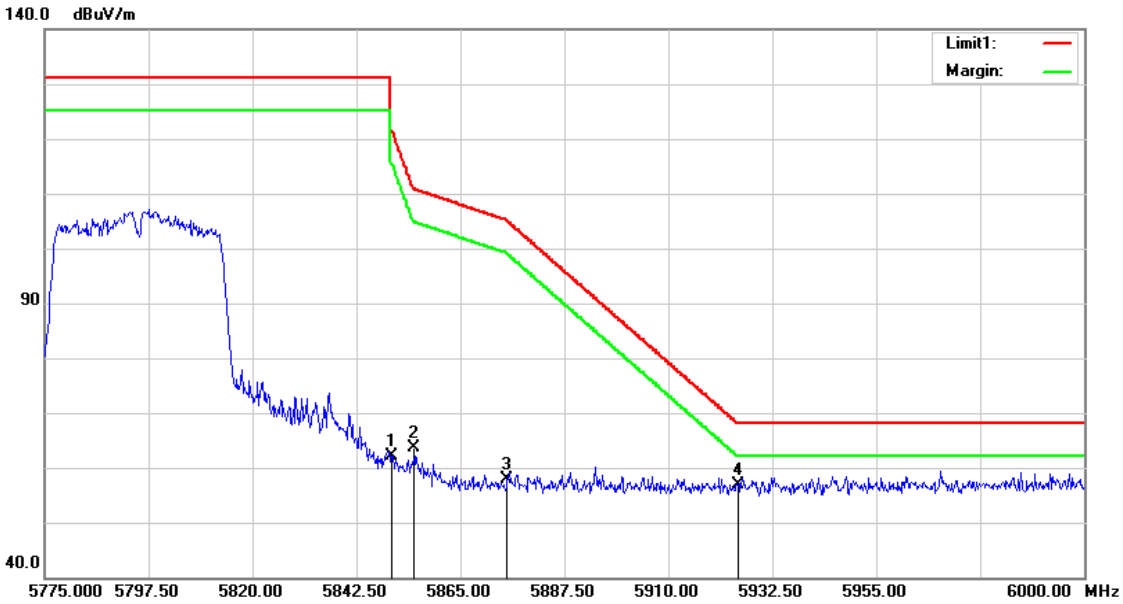
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	47.86	7.42	55.28	68.20	-12.92	peak
2	5700.000	51.28	7.52	58.80	105.20	-46.40	peak
3	5720.000	61.13	7.56	68.69	110.80	-42.11	peak
4	5725.000	57.94	7.57	65.51	122.20	-56.69	peak

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 120 V/60 Hz
Frequency:	5795 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



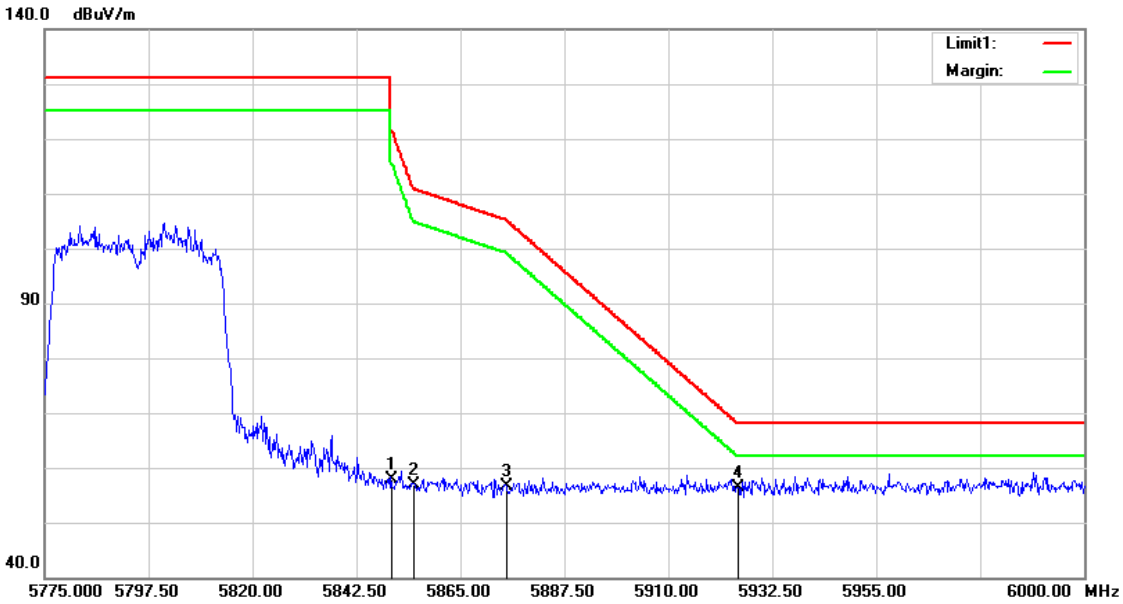
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	54.29	7.83	62.12	122.20	-60.08	peak
2	5855.000	55.84	7.85	63.69	110.80	-47.11	peak
3	5875.000	50.11	7.88	57.99	105.20	-47.21	peak
4	5925.000	48.83	8.00	56.83	68.20	-11.37	peak

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 120 V/60 Hz
Frequency:	5795 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



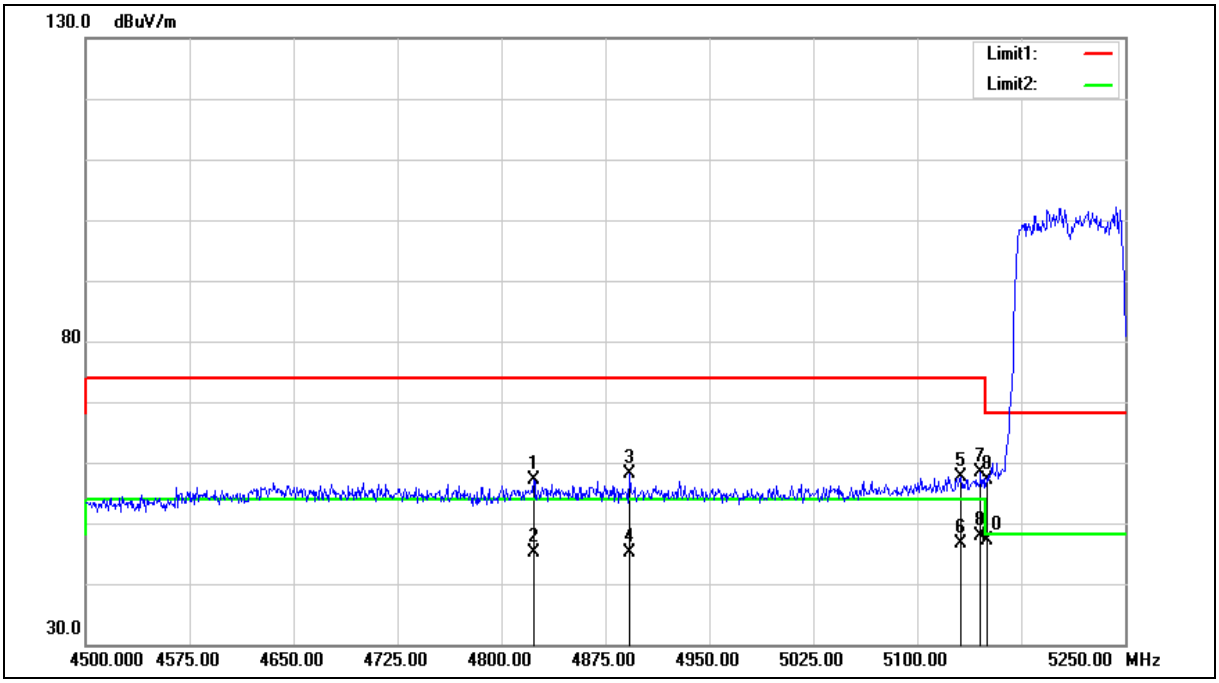
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	49.96	7.83	57.79	122.20	-64.41	peak
2	5855.000	48.91	7.85	56.76	110.80	-54.04	peak
3	5875.000	48.77	7.88	56.65	105.20	-48.55	peak
4	5925.000	48.34	8.00	56.34	68.20	-11.86	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5210 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 7		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5210 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 7		
Ant.Polar.:	Vertical		

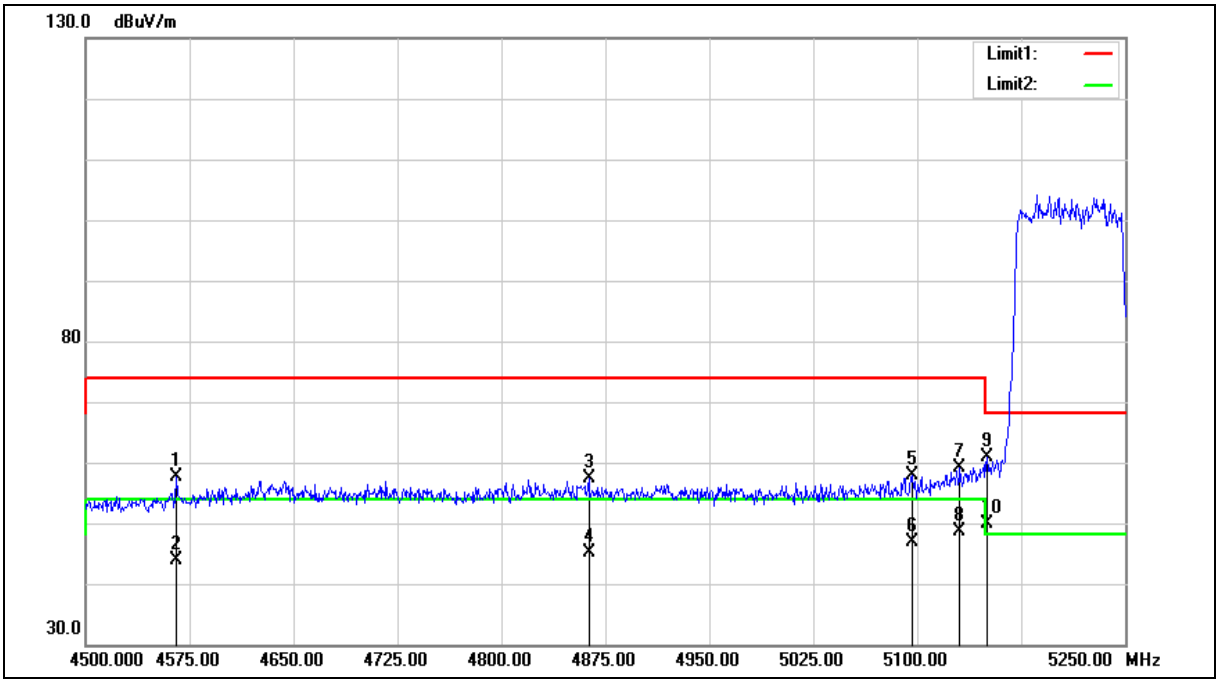
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4823.250	51.53	5.57	57.10	74.00	-16.90	peak
2	4823.250	39.61	5.57	45.18	54.00	-8.82	AVG
3	4892.250	52.31	5.70	58.01	74.00	-15.99	peak
4	4892.250	39.36	5.70	45.06	54.00	-8.94	AVG
5	5131.500	51.30	6.22	57.52	74.00	-16.48	peak
6	5131.500	40.44	6.22	46.66	54.00	-7.34	AVG
7	5145.750	52.14	6.26	58.40	74.00	-15.60	peak
8	5145.750	41.59	6.26	47.85	54.00	-6.15	AVG
9	5150.000	50.83	6.27	57.10	74.00	-16.90	peak
10	5150.000	40.90	6.27	47.17	54.00	-6.83	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5210 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5210 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 7		
Ant.Polar.:	Horizontal		

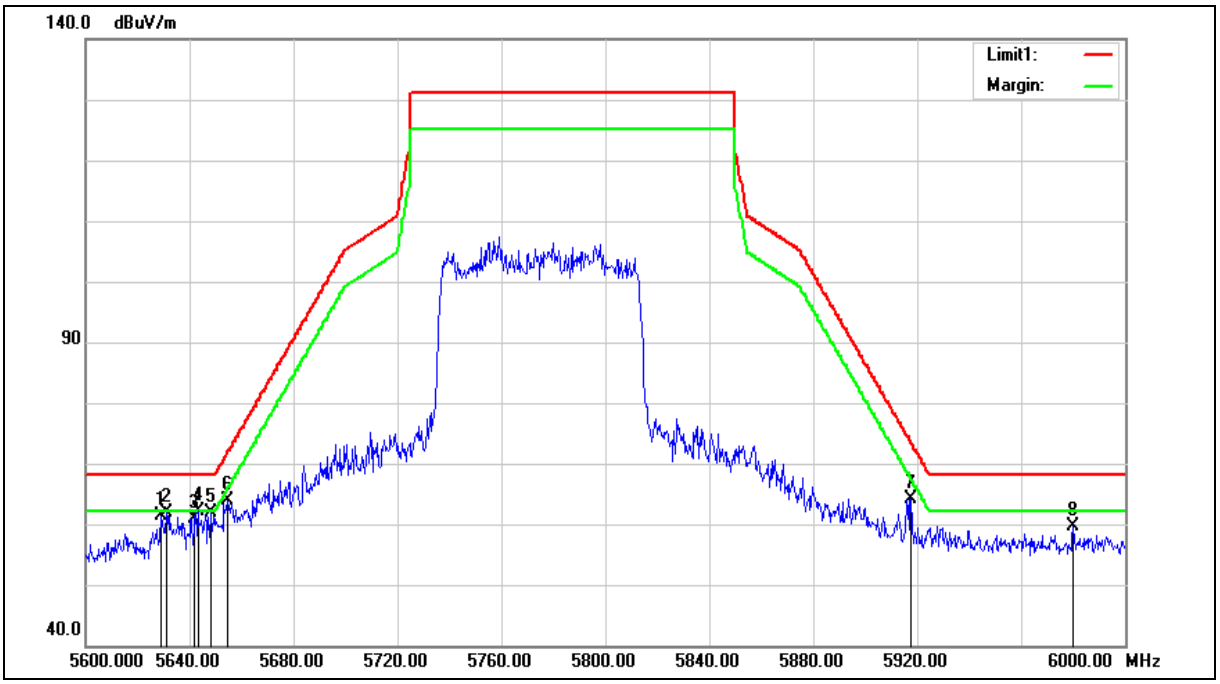
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4565.250	52.66	5.07	57.73	74.00	-16.27	peak
2	4565.250	38.70	5.07	43.77	54.00	-10.23	AVG
3	4863.000	51.65	5.65	57.30	74.00	-16.70	peak
4	4863.000	39.50	5.65	45.15	54.00	-8.85	AVG
5	5096.250	51.79	6.14	57.93	74.00	-16.07	peak
6	5096.250	40.72	6.14	46.86	54.00	-7.14	AVG
7	5130.750	52.97	6.22	59.19	74.00	-14.81	peak
8	5130.750	42.32	6.22	48.54	54.00	-5.46	AVG
9	5150.000	54.71	6.27	60.98	74.00	-13.02	peak
10	5150.000	43.61	6.27	49.88	54.00	-4.12	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 120 V/60 Hz
Frequency:	5775 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 7		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5775 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 7		
Ant.Polar.:	Vertical		

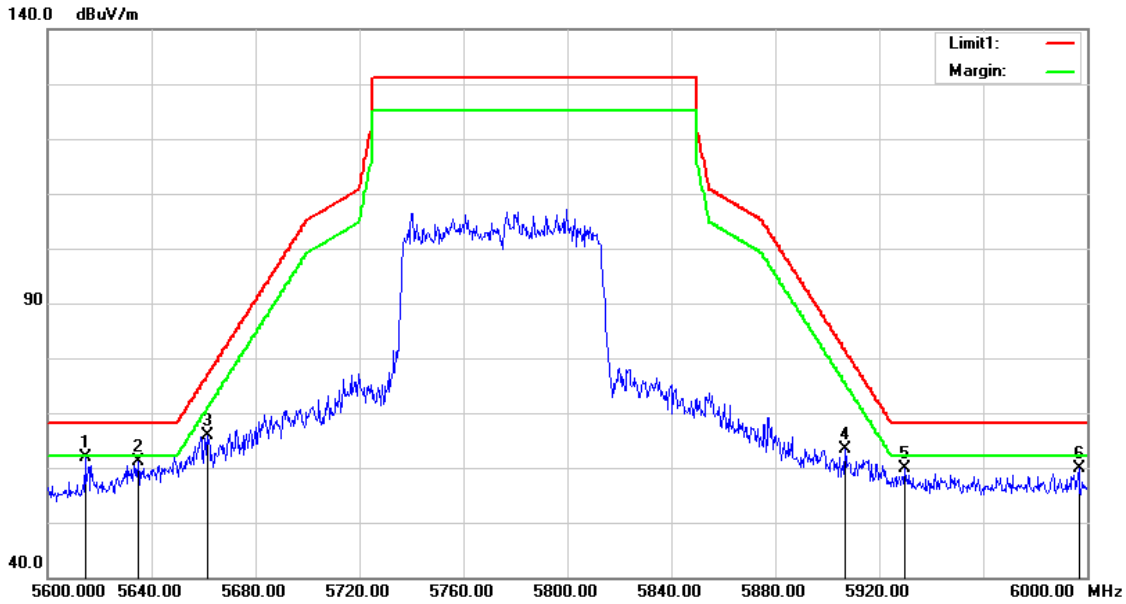
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5628.800	53.94	7.38	61.32	68.20	-6.88	peak
2	5631.200	54.43	7.38	61.81	68.20	-6.39	peak
3	5642.000	53.46	7.40	60.86	68.20	-7.34	peak
4	5643.200	54.70	7.40	62.10	68.20	-6.10	peak
5	5648.400	54.50	7.42	61.92	68.20	-6.28	peak
6	5654.400	56.50	7.43	63.93	71.46	-7.53	peak
7	5917.600	56.27	7.98	64.25	73.68	-9.43	peak
8	5980.000	51.53	8.11	59.64	68.20	-8.56	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge	Power:	AC 120 V/60 Hz
Frequency:	5775 MHz	Temp.(℃)/Hum.(%RH):	26(℃)/60 %RH
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5614.400	54.65	7.34	61.99	68.20	-6.21	peak
2	5634.800	53.70	7.39	61.09	68.20	-7.11	peak
3	5661.600	58.33	7.44	65.77	76.78	-11.01	peak
4	5906.800	55.52	7.95	63.47	81.67	-18.20	peak
5	5929.600	51.80	8.01	59.81	68.20	-8.39	peak
6	5996.800	51.64	8.14	59.78	68.20	-8.42	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.