RF Test Report

Applicant	:	Emplus Technologies, Inc
Product Type	:	4x4 AX Dual-band AP
Trade Name	:	emplus
Model Number	:	WAP380-C
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART E ANSI C63.10:2013
Received Date	:	Feb. 08, 2021
Test Period	:	Feb. 18 ~ Feb. 23, 2021
Issued Date	:	Apr. 15, 2021

Issued by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade District,
Taoyuan City 33465, Taiwan (R.O.C.)
Tel：+886-3-2710188 / Fax：+886-3-2710190

Taiwan Accreditation Foundation accreditation number: 1330
Frequency Range : 9 kHz to 40 GHz
Test Firm MRA designation number: TW0010

Note:
1.The test results are valid only for samples provided by customers and under the test conditions described in this report.
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.	Issued Date	Revisions	Revised By
00	Mar. 10, 2021	Initial Issue	Tobey Cheng
01	Apr. 15, 2021	Update chapter 1.1 (P.5) Update chapter 2 (P.7)	Tobey Cheng

Verification of Compliance

Applicant	:	Emplus Technologies, Inc
Product Type	:	4x4 AX Dual-band AP
Trade Name	:	emplus
Model Number	:	WAP380-C
FCC ID	:	2AL6XWAP380-C1
EUT Rated Voltage	:	DC 12 V, 2.5 A (DC Power Adapter) DC 54 V, 0.6 A (PoE injector (802.3af/at))
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：+886-3-2710188 / Fax：+886-3-2710190 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 : Ken Yang

(Manager) (Ken Yang)

TABLE OF CONTENTS

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	Note 1
15.407(a)	Maximum Conducted Output Power	PASS	Note 1
15.407(a)	26 dB RF Bandwidth & 99 % Occupied Bandwidth	PASS	Note 2
15.407(e)	6 dB RF Bandwidth	PASS	Note 2
15.407(a)	Maximum Power Spectral Density	PASS	Note 2
15.407(c)	Automatically discontinue transmission	PASS	Note 2
15.407(a) 15.203	Antenna Requirement	PASS	Note 2

Note 1：Only verify part of the data, the other test data refer to the original FCC ID file and original report：2008FR16 Rev.00, 2010FR13 Rev.01.

Note 2：The other test data refer to the original FCC ID file and original report：2008FR16 Rev.00, 2010FR13 Rev.01.

Decision Rule

■ Uncertainty is not included.

□ Uncertainty is included.

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	2.68
Radiated Emission	9 kHz ~ 30 MHz	2.14
	30 MHz ~ 1000 MHz	4.99
	1000 MHz ~ 18000 MHz	4.99
	18000 MHz ~ 26500 MHz	4.23
	26500 MHz ~ 40000 MHz	4.39
Conducted Output Power		0.92 dB
RF Bandwidth		4.79 %
Power Spectral Density		0.92 dB
Frequency Stability		4.1 x 10^-8
Duty Cycle		1.06 %
Time Occupancy		1.40 %

2 EUT Description

Applicant	Emplus Technologies, Inc Bld B, 10F, No.209, Sec.1, Nangang Rd., Taipei City, Taiwan				
Manufacturer	Emplus Technologies., Inc. 10F., Building B, No.209, Sec. 1, Nangang Rd., Nangang Dist., Taipei City 115, Taiwan (R.O.C.)				
Product Type	4x4 AX Dual-band AP				
Trade Name	emplus				
Model Number	WAP380-C				
FCC ID	2AL6XWAP380-C1				
Operate Frequency	Frequency Band		Frequency Range (MHz)	Number of Channels	
	IEEE 802.11a	U-NII Band I	5180 – 5240	4	
		U-NII Band III	5745 – 5825	5	
	IEEE 802.11n 5 GHz 20 MHz / IEEE 802.11ac 20 MHz/ IEEE 802.11ax 20 MHz	U-NII Band I	5180 – 5240	4	
		U-NII Band III	5745 – 5825	5	
	IEEE 802.11n 5 GHz 40 MHz / IEEE 802.11ac 40 MHz/ IEEE 802.11ax 40 MHz	U-NII Band I	5190 – 5230	2	
		U-NII Band III	5755 – 5795	2	
	IEEE 802.11ac 80 MHz/ IEEE 802.11ax 80 MHz	U-NII Band I	5210	1	
		U-NII Band III	5775	1	
Modulation Type	OFDM/OFDMA				
Equipment Type	Master				
Antenna information	Antenna	Model	Type	Max. Gain (dBi)	
	ANT-0	5718A0518300	PIFA Antenna	U-NII Band I	5.13
				U-NII Band III	5.19
	ANT-1	5718A0522300	PIFA Antenna	U-NII Band I	4.26
				U-NII Band III	3.81
	ANT-2	5718A0520300	PIFA Antenna	U-NII Band I	4.03
				U-NII Band III	4.56
	ANT-3	5718A0521300	PIFA Antenna	U-NII Band I	5.04
				U-NII Band III	5.04
Antenna Delivery	Reference section 3.1				
Operate Temp. Range	0 ~ +40 ℃				

Data re-use Description：

In accordance with KDB 484596 D01 c) Spot-check test data shall be based on Max. Output Power and Transmitter Radiated Emissions in the original FCC ID filing, should remain within the tune-up tolerance range specified for the product, and should be compliant with applicable rule part(s), After evaluation above, data re-use is applicable.
Original FCC ID: 2AL6XWAP380-C Original Report：2008FR16 Rev.00, 2010FR13 Rev.01

Frequency Band		RF Output Power (W)
IEEE 802.11a	U-NII Band I	0.179
	U-NII Band III	0.322
IEEE 802.11n 5 GHz 20 MHz	U-NII Band I	0.312
	U-NII Band III	0.313
IEEE 802.11n 5 GHz 40 MHz	U-NII Band I	0.318
	U-NII Band III	0.331
IEEE 802.11ac 20 MHz	U-NII Band I	0.317
	U-NII Band III	0.319
IEEE 802.11ac 40 MHz	U-NII Band I	0.323
	U-NII Band III	0.335
IEEE 802.11ac 80 MHz	U-NII Band I	0.164
	U-NII Band III	0.322
IEEE 802.11ax 20 MHz	U-NII Band I	0.331
	U-NII Band III	0.329
IEEE 802.11ax 40 MHz	U-NII Band I	0.347
	U-NII Band III	0.341
IEEE 802.11ax 80 MHz	U-NII Band I	0.156
	U-NII Band III	0.330

Beamforming on

Frequency Band		RF Output Power (W)
IEEE 802.11n 5 GHz 20 MHz	U-NII Band I	0.072
	U-NII Band III	0.073
IEEE 802.11n 5 GHz 40 MHz	U-NII Band I	0.074
	U-NII Band III	0.077
IEEE 802.11ac 20 MHz	U-NII Band I	0.074
	U-NII Band III	0.074
IEEE 802.11ac 40 MHz	U-NII Band I	0.076
	U-NII Band III	0.079
IEEE 802.11ac 80 MHz	U-NII Band I	0.038
	U-NII Band III	0.075
IEEE 802.11ax 20 MHz	U-NII Band I	0.077
	U-NII Band III	0.076
IEEE 802.11ax 40 MHz	U-NII Band I	0.079
	U-NII Band III	0.079
IEEE 802.11ax 80 MHz	U-NII Band I	0.036
	U-NII Band III	0.077

Equipment Type		
Outdoor access point	point-to-point	---
	point-to-multipoint	---
Indoor access point		V
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
Mode 8: IEEE 802.11ax 20 MHz Continuous TX mode
Mode 9: IEEE 802.11ax 40 MHz Continuous TX mode
Mode 10: IEEE 802.11ax 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 : EUT only supports Full RU。

Test Mode	ANT-0	ANT-1	ANT-2	ANT-3	ANT-0+1+2+3
Mode 2	V	V	V	V	V
Mode 3	V	V	V	V	V
Mode 4	V	V	V	V	V
Mode 5	V	V	V	V	V
Mode 6	V	V	V	V	V
Mode 7	V	V	V	V	V
Mode 8	V	V	V	V	V
Mode 9	V	V	V	V	V
Mode 10	V	V	V	V	V

Test Mode	Antenna Delivery	Data Rate (Mbps)	Band	Test Channel
Mode 2	4TX (CDD)	6	U-NII Band I	36, 40, 48
			U-NII Band III	149, 157, 165
Mode 3	4TX (STBC/Beamforming on)	26	U-NII Band I	36, 40, 48
			U-NII Band III	149, 157, 165
Mode 4	4TX (STBC/Beamforming on)	54	U-NII Band I	38, 46
			U-NII Band III	151,159
Mode 5	4TX (STBC/Beamforming on)	26	U-NII Band I	36, 40, 48
			U-NII Band III	149, 157, 165
Mode 6	4TX (STBC/Beamforming on)	54	U-NII Band I	38, 46
			U-NII Band III	151,159
Mode 7	4TX (STBC/Beamforming on)	117.2	U-NII Band I	42
			U-NII Band III	155
Mode 8	4TX (STBC/Beamforming on)	MCS 0	U-NII Band I	36, 40, 48
			U-NII Band III	149, 157, 165
Mode 9	4TX (STBC/Beamforming on)	MCS 0	U-NII Band I	38, 46
			U-NII Band III	151,159
Mode 10	4TX (STBC/Beamforming on)	MCS 0	U-NII Band I	42
			U-NII Band III	155

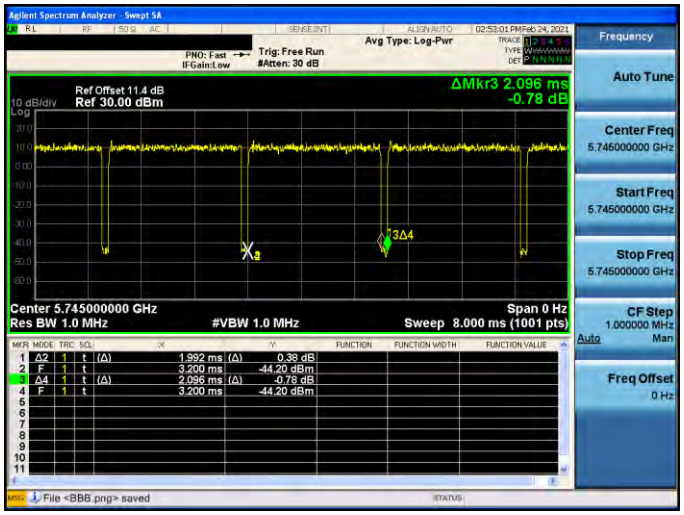
Duty cycle

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	1.992	2.096	0.950	0.221	0.502
Mode 5	5180.0	5.490	5.706	0.962	0.168	0.182
Mode 6	5190.0	5.460	5.760	0.948	0.232	0.183
Mode 7	5210.0	5.460	5.775	0.945	0.244	0.183
Mode 8	5180.0	5.500	5.660	0.972	0.125	0.182
Mode 9	5190.0	5.500	5.740	0.958	0.185	0.182
Mode 10	5210.0	5.460	5.740	0.951	0.217	0.183

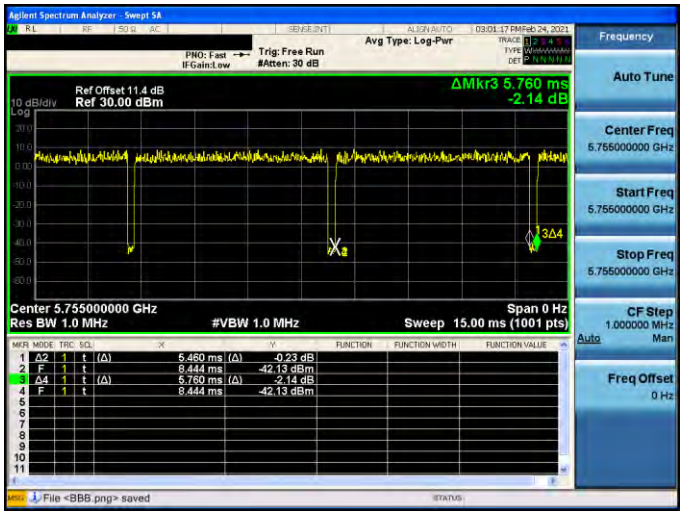
Beamforming on

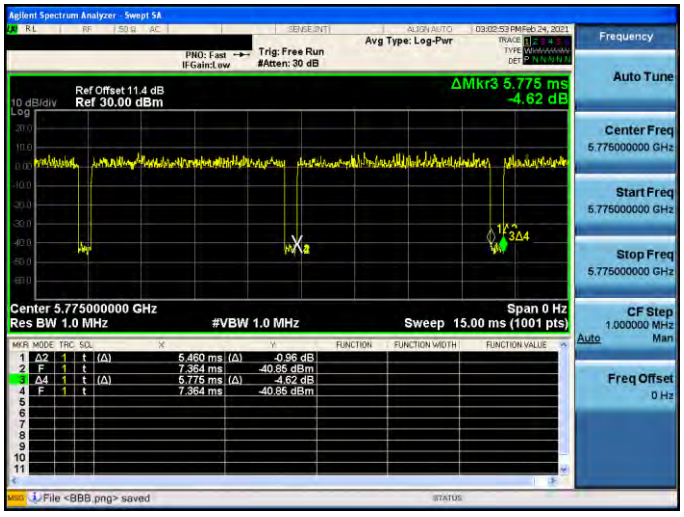
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 5	5180.0	5.490	5.760	0.953	0.209	0.182
Mode 6	5190.0	5.460	5.760	0.948	0.232	0.183
Mode 7	5210.0	5.460	5.775	0.945	0.244	0.183
Mode 8	5180.0	5.550	5.660	0.981	0.085	0.010
Mode 9	5190.0	5.550	5.740	0.967	0.146	0.180
Mode 10	5210.0	5.460	5.740	0.951	0.217	0.183

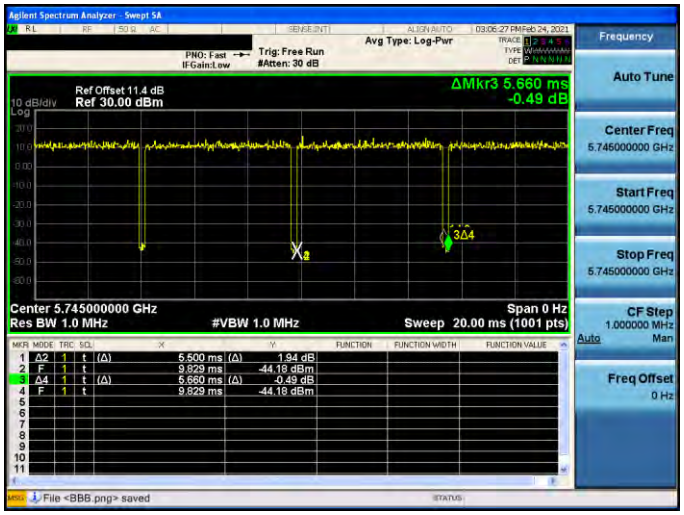
Duty Cycle Graphs

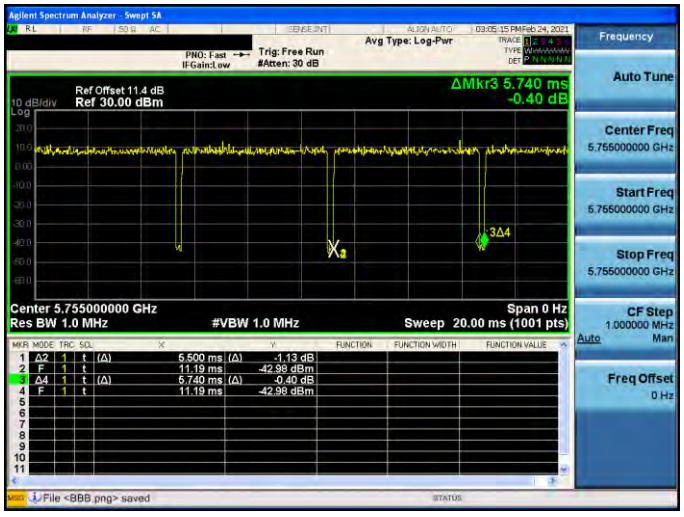
Mode 2: IEEE 802.11a Continuous TX mode	
On+off time	

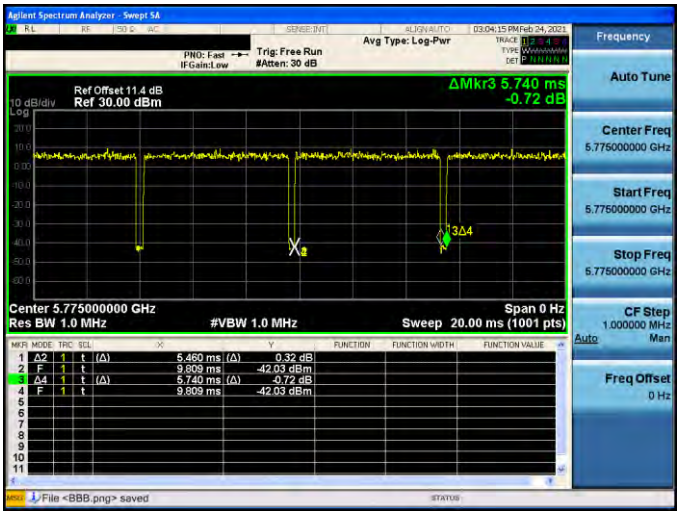
Mode 5: IEEE 802.11ac 20 MHz Continuous TX mode	
On+off time	

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

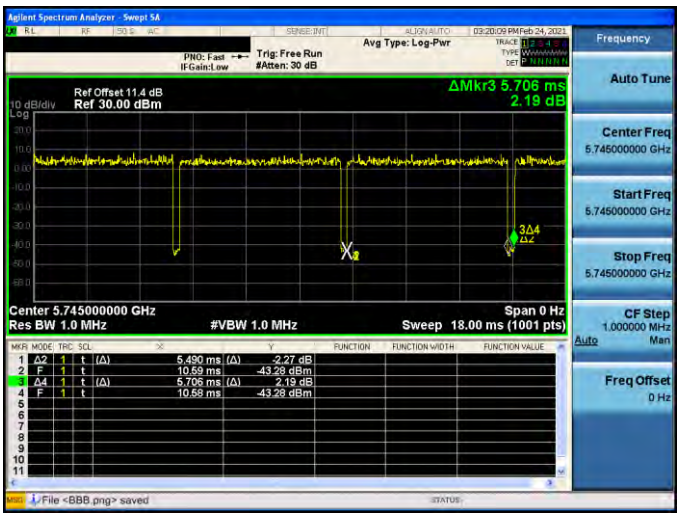
Mode 7: IEEE 802.11ac 80 MHz Continuous TX mode	
On+off time	

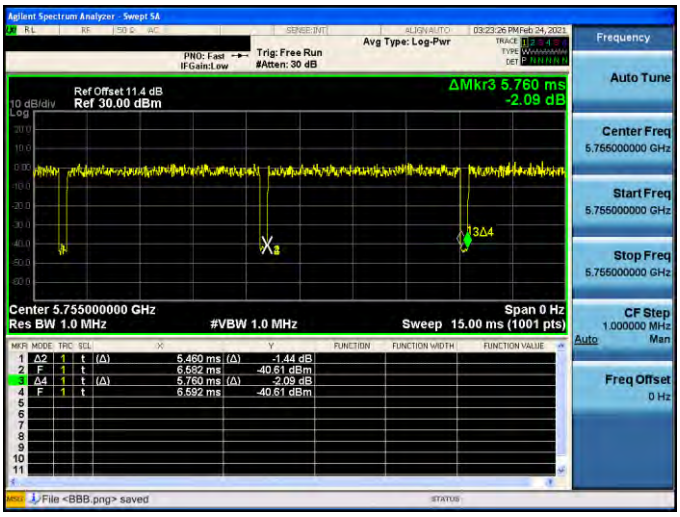
Mode 8: IEEE 802.11ax 20 MHz Continuous TX mode	
On+off time	

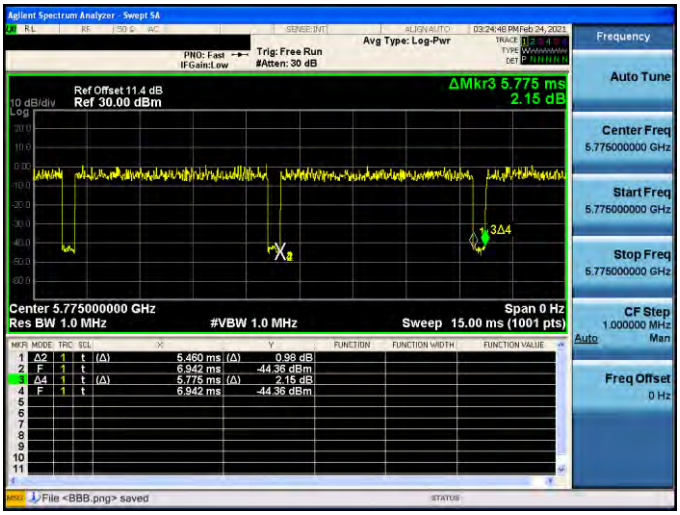
Mode 9: IEEE 802.11ax 40 MHz Continuous TX mode	
On+off time	

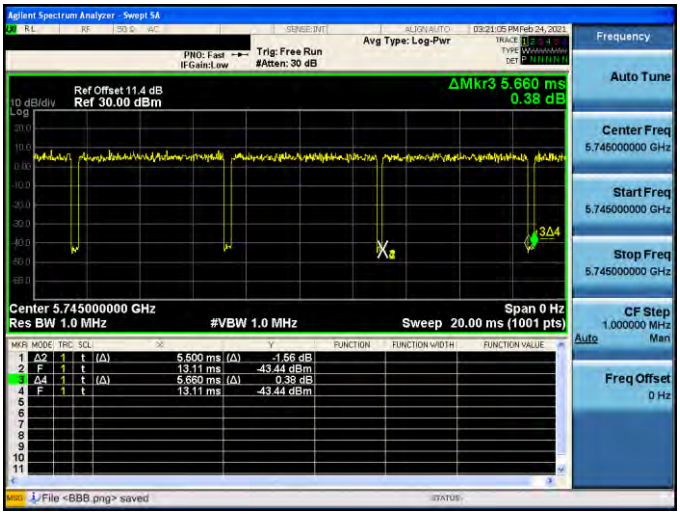
Mode 10: IEEE 802.11ax 80 MHz Continuous TX mode	
On+off time	

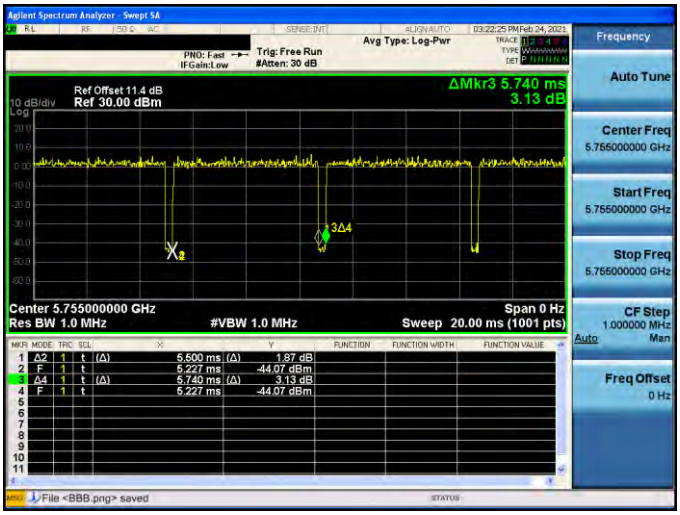
Beamforming on

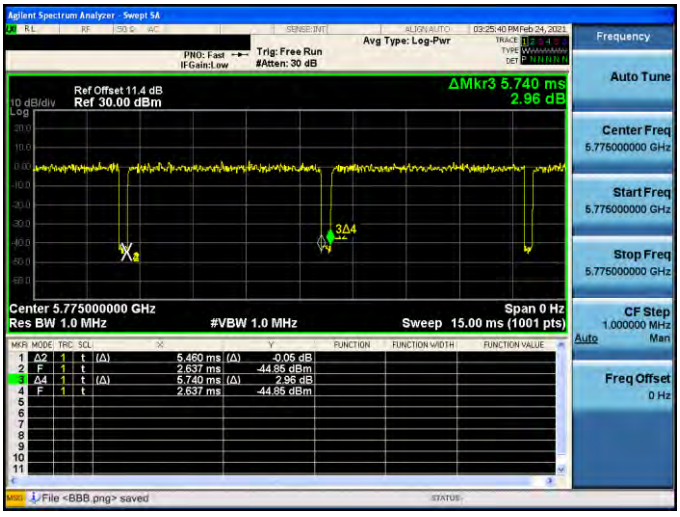
Mode 5: IEEE 802.11ac 20 MHz Continuous TX mode	
On+off time	

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

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

Mode 8: IEEE 802.11ax 20 MHz Continuous TX mode	
On+off time	

Mode 9: IEEE 802.11ax 40 MHz Continuous TX mode	
On+off time	

Mode 10: IEEE 802.11ax 80 MHz Continuous TX mode	
On+off time	

3.2. EUT Test Step

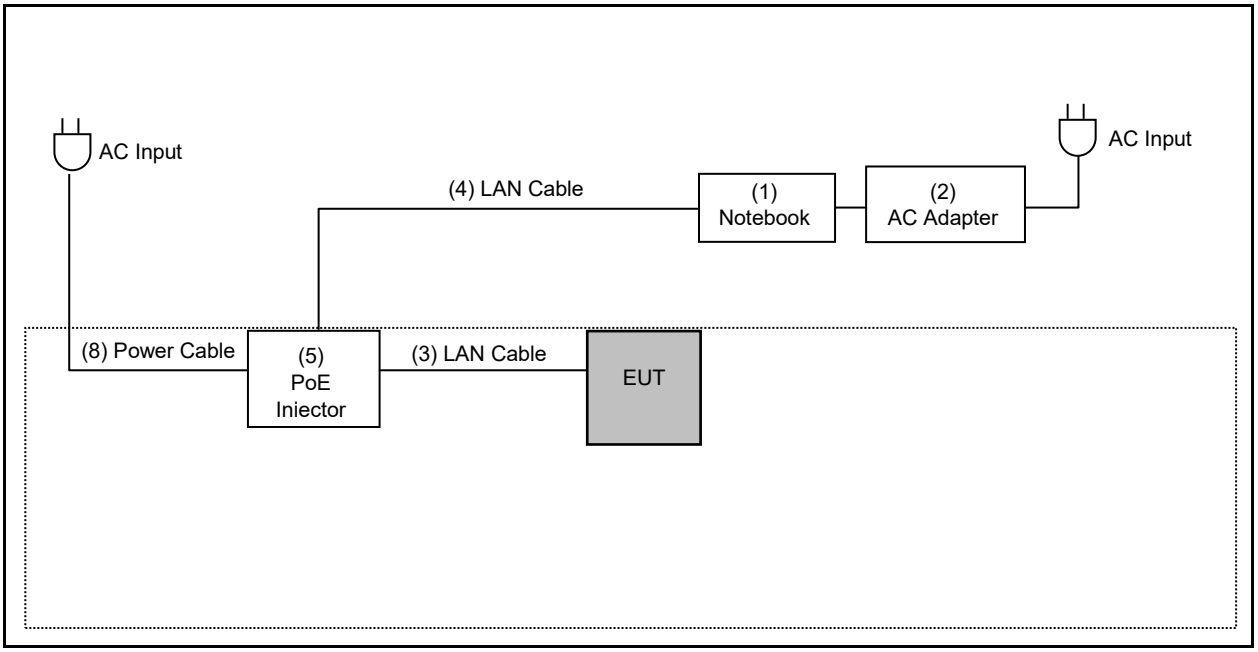
The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement. According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

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

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

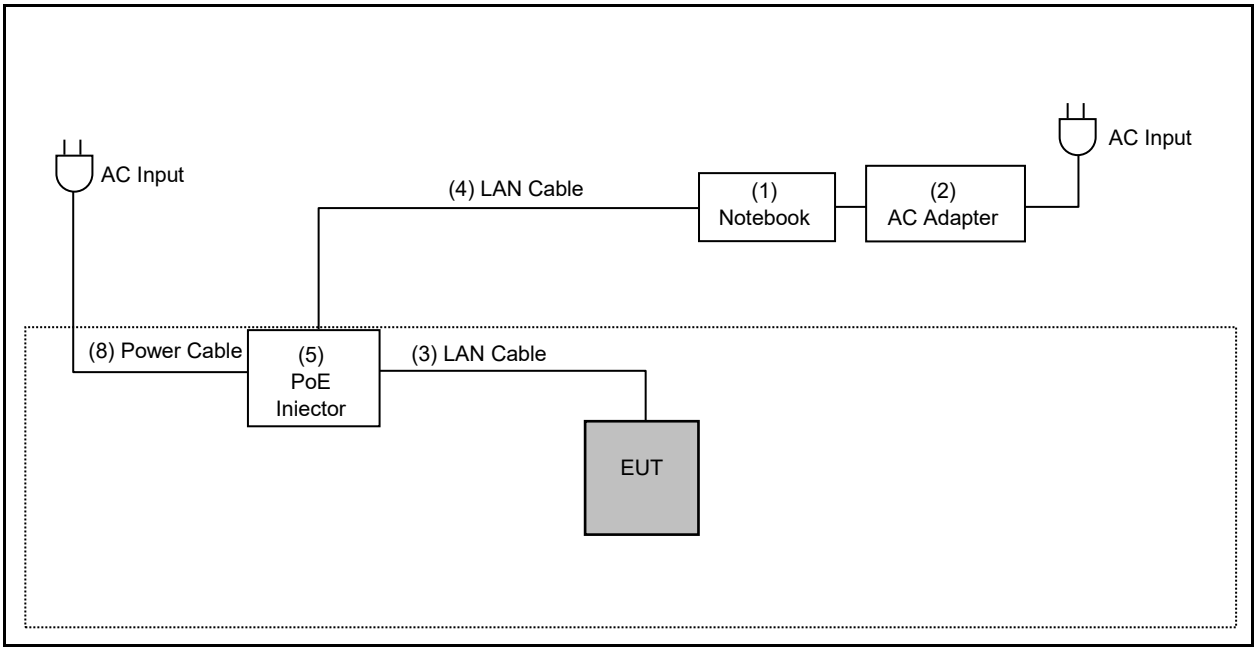
3.3. Configuration of Test System Details

Conducted Emission

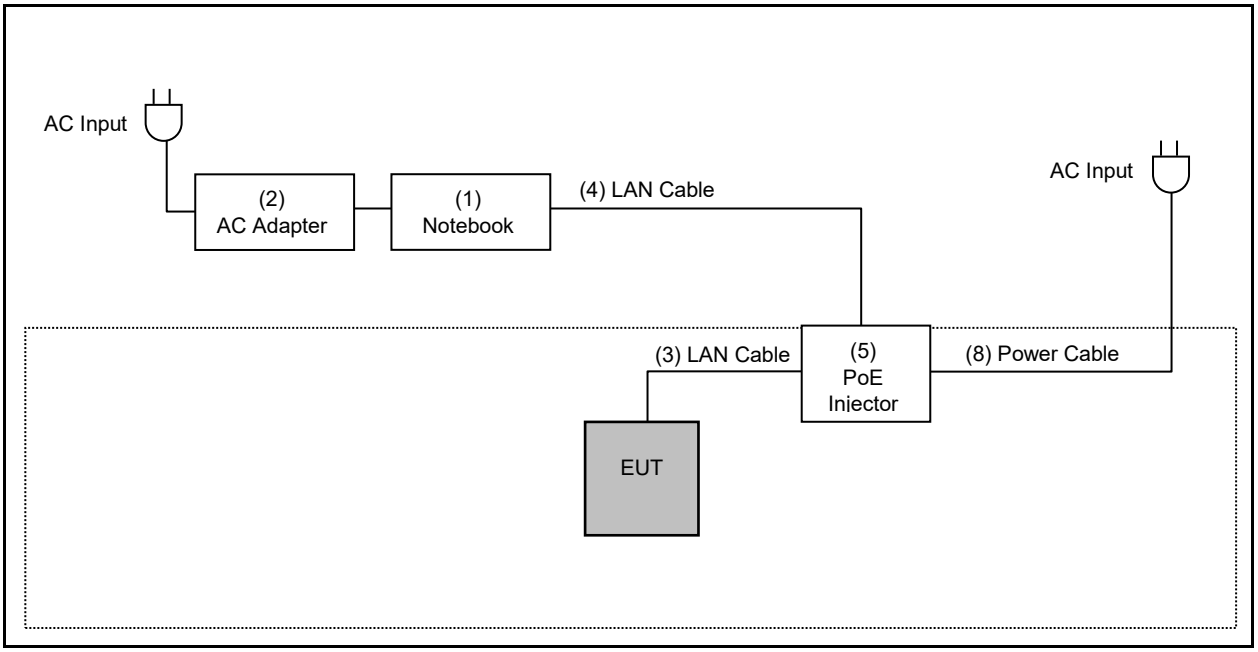


Radiated Emissions

Below 1 GHz



Above 1 GHz



Devices Description					
Product		Manufacturer	Model Number	Serial Number	Remark
(1)	Notebook	ASUS	P1448U	K7NXCV10P87329A	---
(2)	AC Adapter	ASUS	EXA1203YH	---	INPUT : 100-240 Vac , 50/60 Hz, 1.5 A OUTPUT : 19 Vdc, 3.42 A Non-Shielded, 0.8 m
(3)	LAN cable	HUAWEI	UL2464	---	---
(4)	LAN Cable	TATUNG	CAT5E	---	---
(5)	PoE Injector	emplus	EPA5006GAT	---	INPUT : 100-240 Vac , 50/60 Hz, 0.8 A OUTPUT : 54 Vdc, 0.6 A
(6)	AC Adapter	DVE	DSA-24PFS-12 FUS	---	INPUT : 100-240 Vac , 50/60 Hz, 0.8 A OUTPUT : 12 Vdc, 2.0 A
(7)	AC Adapter	SPC	ZZU1588-250120-2A	---	INPUT : 100-240 Vac , 50/60 Hz, 1.5 A OUTPUT : 12 Vdc, 2.5 A
(8)	Power Cable	I-SHENG	IS-034	---	---

Note：The device used (6) AC Adapter and (7) AC Adapter and (5) PoE Injector to evaluation AC Power line Conducted Emission, (5) PoE Injector is worst case to perform testing.

3.4. Test Instruments

For Conducted Emission

Test Period: Feb. 21, 2021

Testing Engineer: Louis Shen

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

For Radiated Emissions

Test Period: Feb. 19 ~ Feb. 21, 2021

Testing Engineer: Marc Yeh

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	01/18/2021	1 year
Pre Amplifier (1~26.5 GHz)	Agilent	8449B	3008A02237	10/21/2020	1 year
Pre Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A10961	07/03/2020	1 year
Pre Amplifier (26.5~40 GHz)	EMCI	EMC2654045	980028	08/24/2020	1 year
Broadband Antenna	Schwarzbeck	VULB9168	416	11/11/2020	1 year
Horn Antenna (1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	08/17/2020	1 year
Horn Antenna (18~40 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	08/18/2020	1 year
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	03/27/2020	1 year
RF Cable	EMCI	EMC104-N-N-6000	TE01-1	02/20/2020 02/19/2021	1 year
Microwave Cable	EMCI	EMC104-SM-SM-13000	170814	10/29/2020	1 year
Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	02/20/2020 02/19/2021	1 year

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

For Conducted
Test Period: Feb. 20 ~ Feb. 23, 2021
Testing Engineer: Peter Shui

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Power Sensor	Anritsu	MA2411B	1126022	09/01/2020	1 year
Power Meter	Anritsu	ML2495A	1135009	09/01/2020	1 year
Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	09/24/2020	1 year

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

3.5. Test Site Environment

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

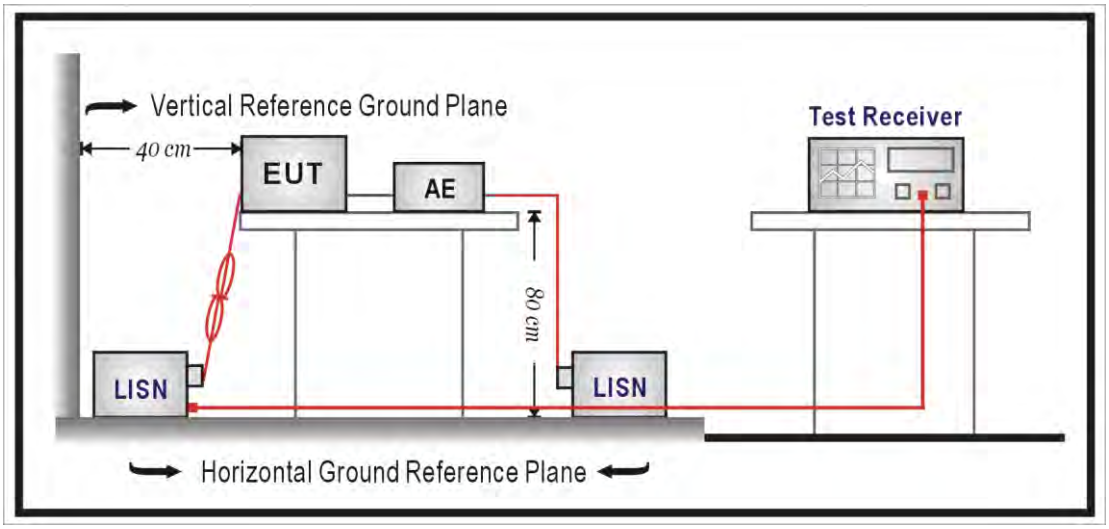
4 Measurement Procedure

4.1. AC Power 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.

EIRP (dBm)	Field Strength at 3 m(dBuV/m)
-27	68.3

(2)Limits of Radiated Emission Measurement

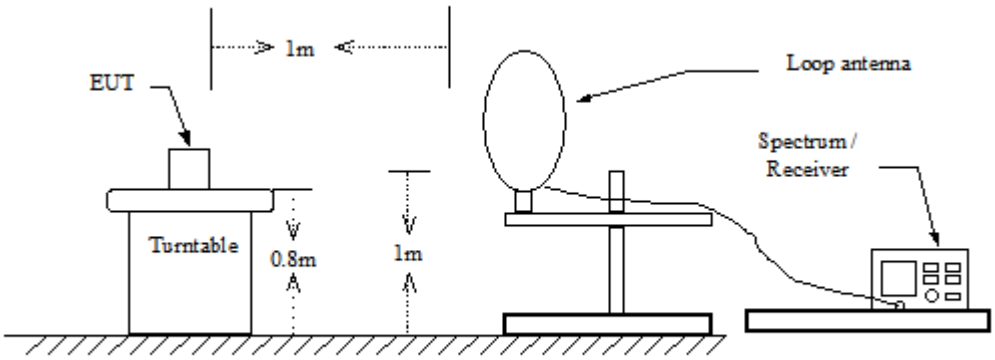
Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

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

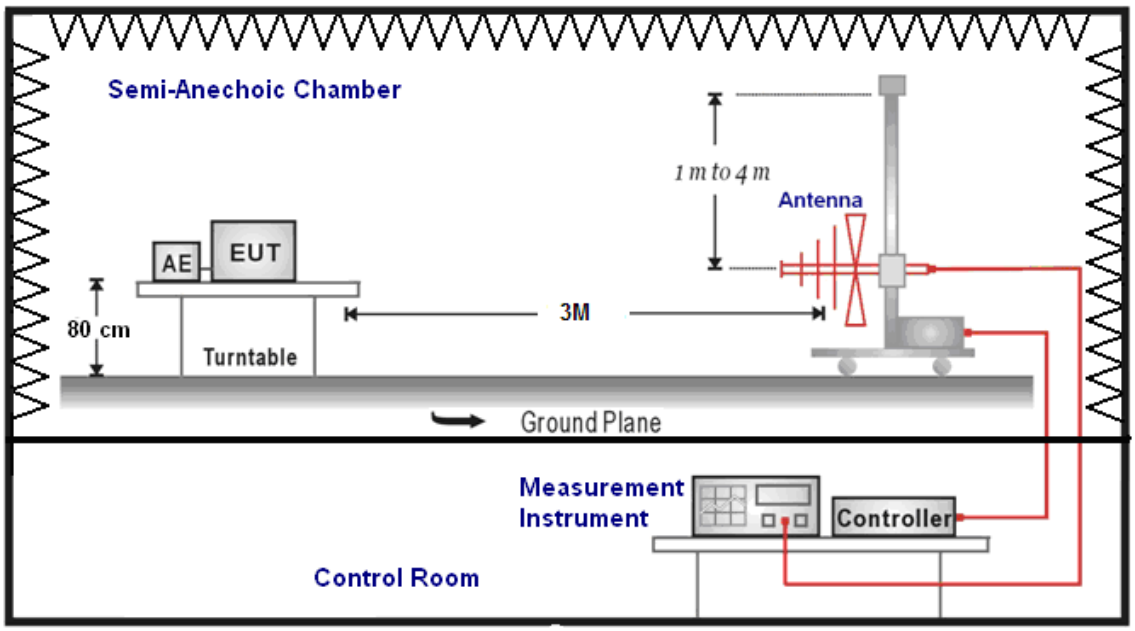
Note: 1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed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

■ **Setup**

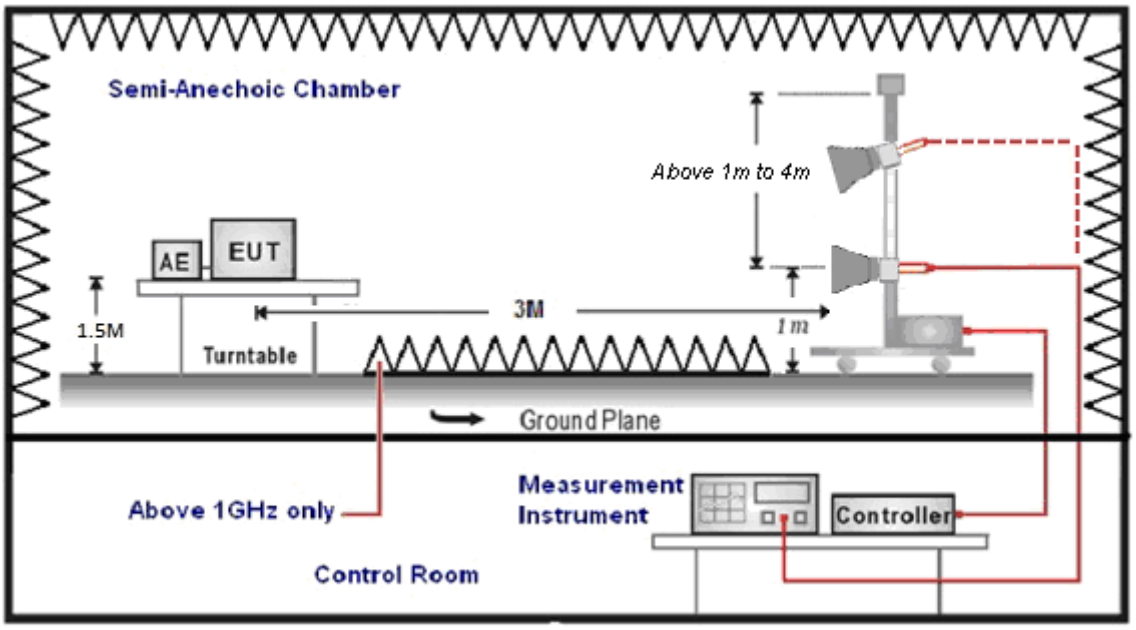
9 kHz ~ 30 MHz



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).

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

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

(1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)
FI= Reading of the field intensity.
AF= Antenna factor.
CL= Cable loss.
P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)
The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:
(a) For fundamental frequency : Transmitter Output < +30 dBm
(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

Measuring Instruments and setting

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

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

4.3. Maximum Conducted Output Power Measurement

■ **Limit**

Frequency Range (MHz)	FCC Maximum Conducted Output Power Limit
	Master
5.150 ~ 5.250 GHz	The lesser of 1 W (30 dBm)
5.725 ~ 5.850 GHz	The lesser of 1 W (30 dBm)

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

CDD / STBC / BF mode

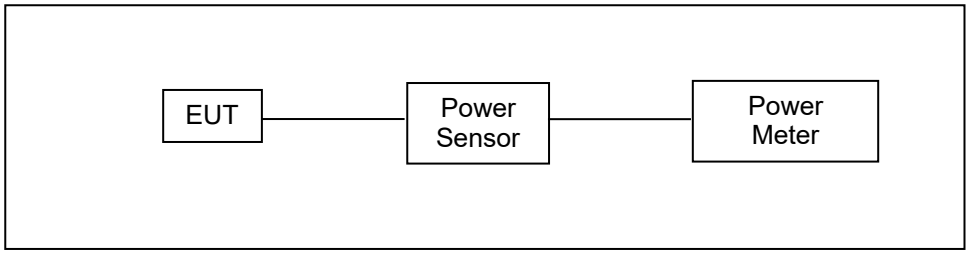
5.150 ~ 5.250 GHz

∗ Directional = G_{ANT} = 10*log{[10^(G1/10)+10^(G2/10)+⋯+10^(Gn/10)]/NANT} = 4.64 dBi < 6 dBi

5.725 ~ 5.850 GHz

∗ Directional = G_{ANT} = 10*log{[10^(G1/10)+10^(G2/10)+⋯+10^(Gn/10)]/NANT} = 4.68 dBi < 6 dBi

■ **Test Setup**



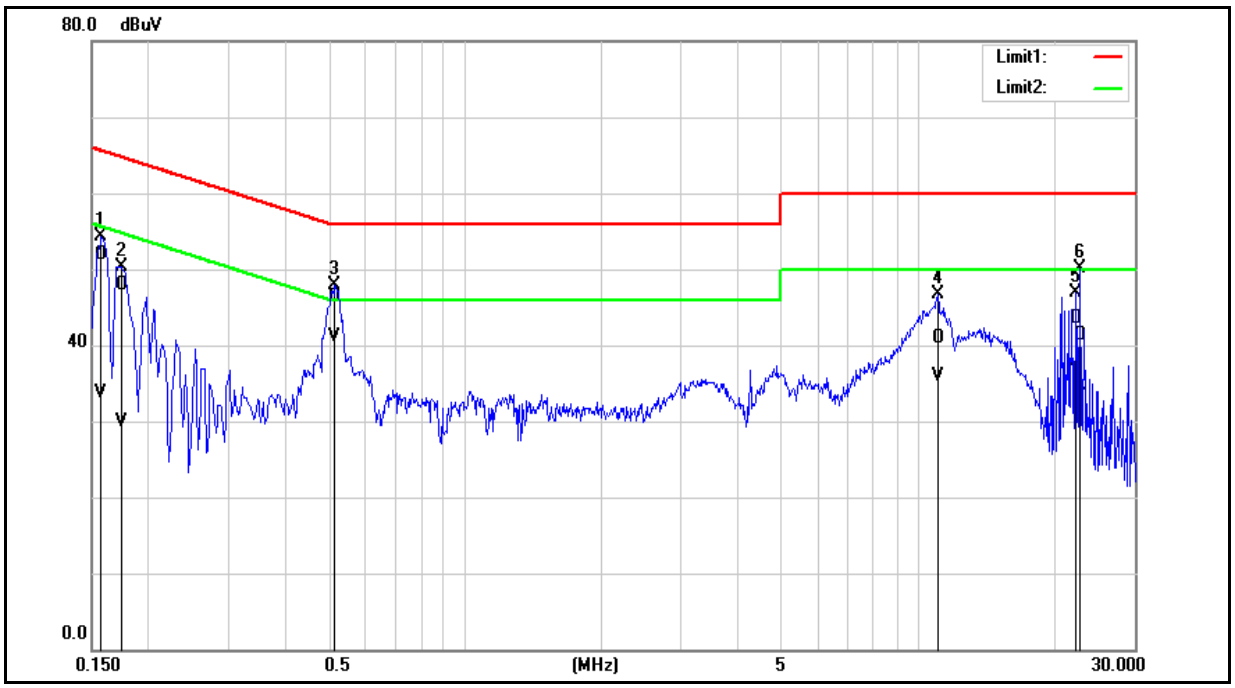
■ **Test Procedure**

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)

5 Test Results

Annex A. Conducted Emission

Standard:	FCC Part 15.407	Line:	L1
Test item:	Conducted Emission		
Mode:	Mode 1		
Description:	PoE Injector		

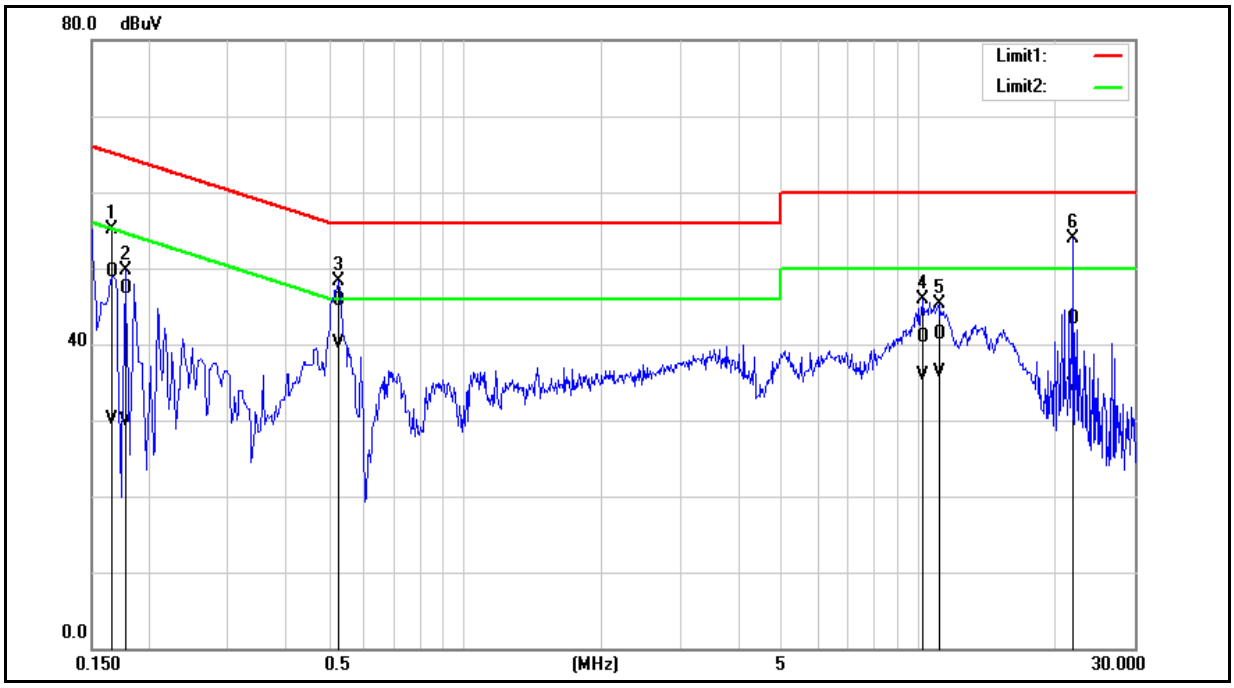


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1580	42.23	23.94	9.70	51.93	33.64	65.57	55.57	-13.64	-21.93	Pass
2	0.1740	38.22	20.19	9.70	47.92	29.89	64.77	54.77	-16.85	-24.88	Pass
3	0.5180	36.62	31.41	9.71	46.33	41.12	56.00	46.00	-9.67	-4.88	Pass
4	11.0220	31.08	26.08	9.90	40.98	35.98	60.00	50.00	-19.02	-14.02	Pass
5	22.2620	33.50	27.05	10.04	43.54	37.09	60.00	50.00	-16.46	-12.91	Pass
6	22.7580	31.19	23.25	10.05	41.24	33.30	60.00	50.00	-18.76	-16.70	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		
Mode:	Mode 1		
Description:	PoE Injector		



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	0.1660	39.79	20.42	9.69	49.48	30.11	65.16	55.16	-15.68	-25.05	Pass
2	0.1780	37.56	20.21	9.69	47.25	29.90	64.58	54.58	-17.33	-24.68	Pass
3	0.5260	35.93	30.35	9.70	45.63	40.05	56.00	46.00	-10.37	-5.95	Pass
4	10.2780	31.00	26.03	9.88	40.88	35.91	60.00	50.00	-19.12	-14.09	Pass
5	11.1220	31.44	26.42	9.91	41.35	36.33	60.00	50.00	-18.65	-13.67	Pass
6	22.0140	33.32	24.36	10.08	43.40	34.44	60.00	50.00	-16.60	-15.56	Pass

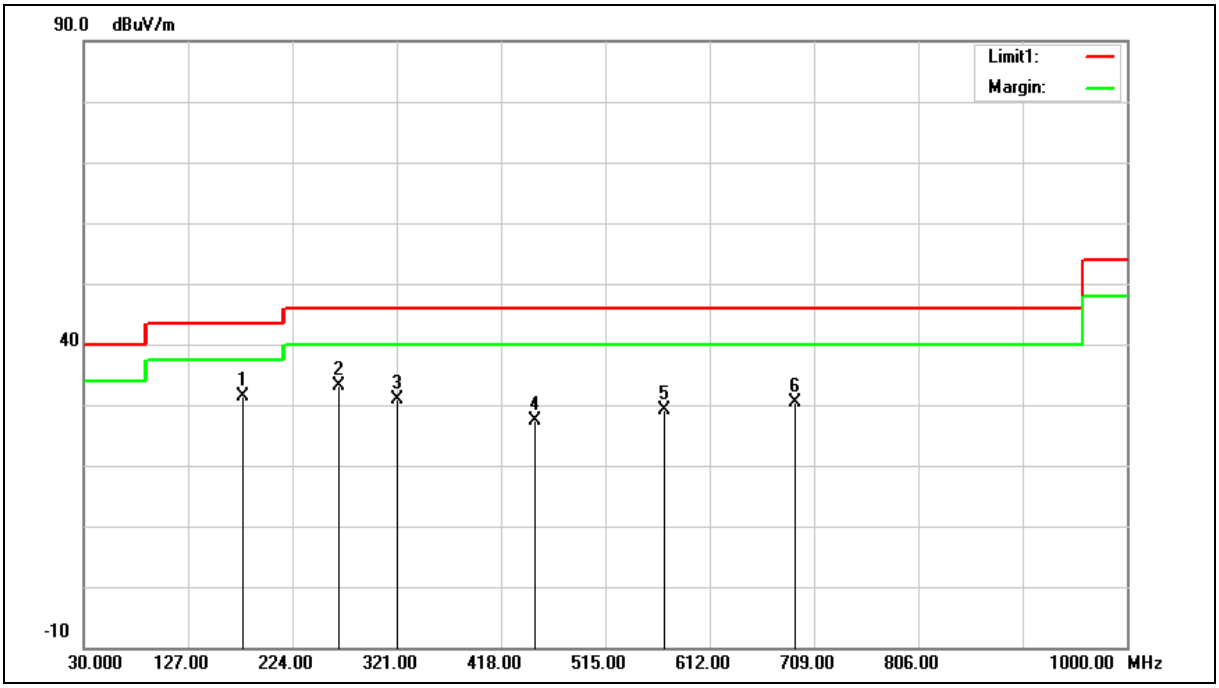
Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

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

Annex B. Radiated Emission Measurement

Below 1 GHz

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Radiated Emission		
Frequency:	5745 MHz		
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	177.7355	38.14	-6.78	31.36	43.50	-12.14	QP
2	266.1822	38.48	-5.47	33.01	46.00	-12.99	QP
3	320.6111	34.94	-4.07	30.87	46.00	-15.13	QP
4	449.8797	28.44	-1.10	27.34	46.00	-18.66	QP
5	569.4288	27.98	1.27	29.25	46.00	-16.75	QP
6	690.9215	26.82	3.47	30.29	46.00	-15.71	QP

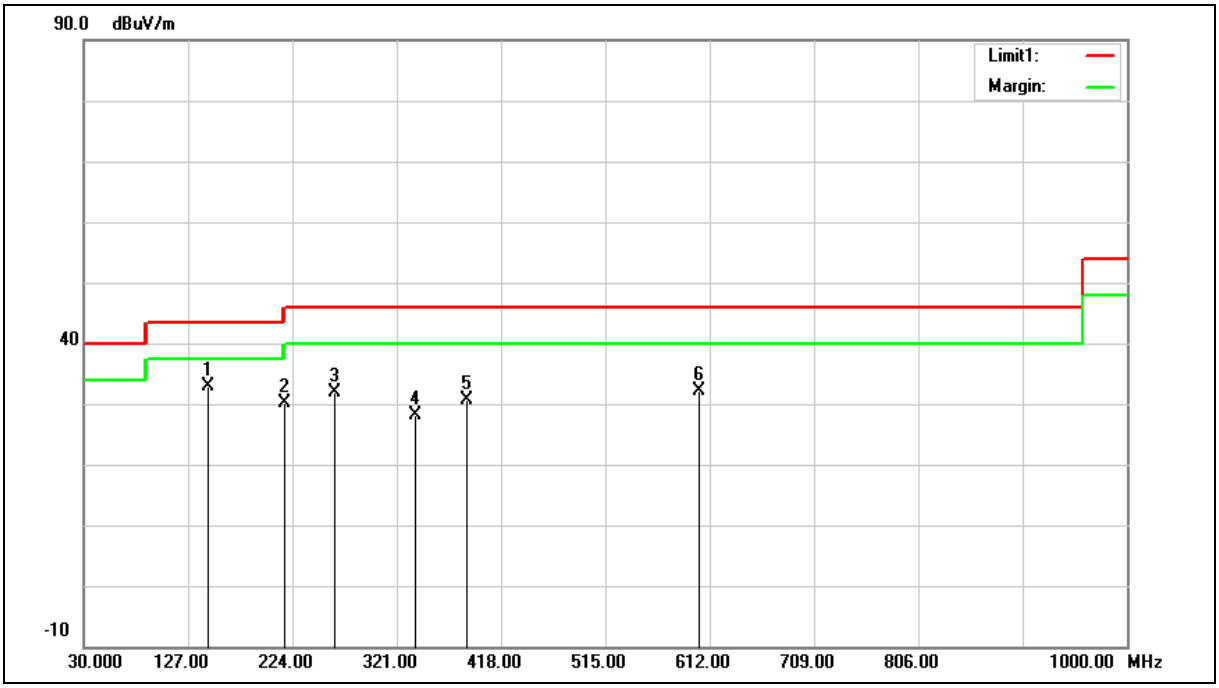
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 31.36 = -6.78 + 38.14

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

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

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Radiated Emission		
Frequency:	5745 MHz		
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	144.6894	38.78	-5.86	32.92	43.50	-10.58	QP
2	215.6413	37.46	-7.44	30.02	43.50	-13.48	QP
3	263.2664	37.42	-5.66	31.76	46.00	-14.24	QP
4	338.1062	32.14	-3.97	28.17	46.00	-17.83	QP
5	385.7314	33.50	-2.82	30.68	46.00	-15.32	QP
6	601.5030	30.04	2.11	32.15	46.00	-13.85	QP

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

Example: 32.92 = -5.86 + 38.78

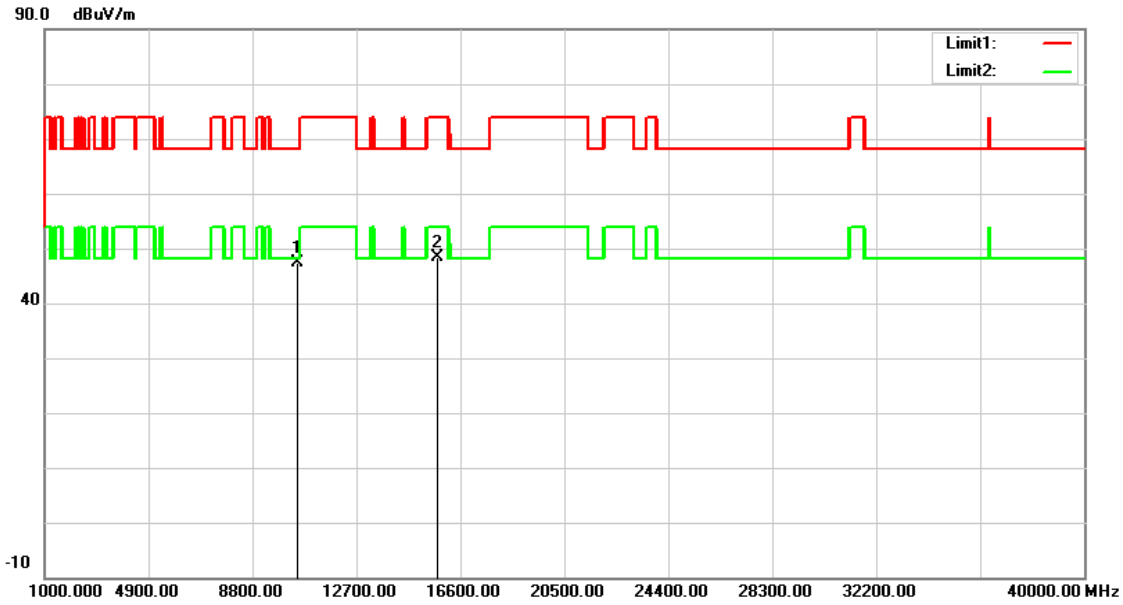
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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

Harmonic

Above 1 GHz

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5240 MHz		
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	42.01	5.25	47.26	68.20	-20.94	peak
2	15720.000	41.06	7.40	48.46	74.00	-25.54	peak

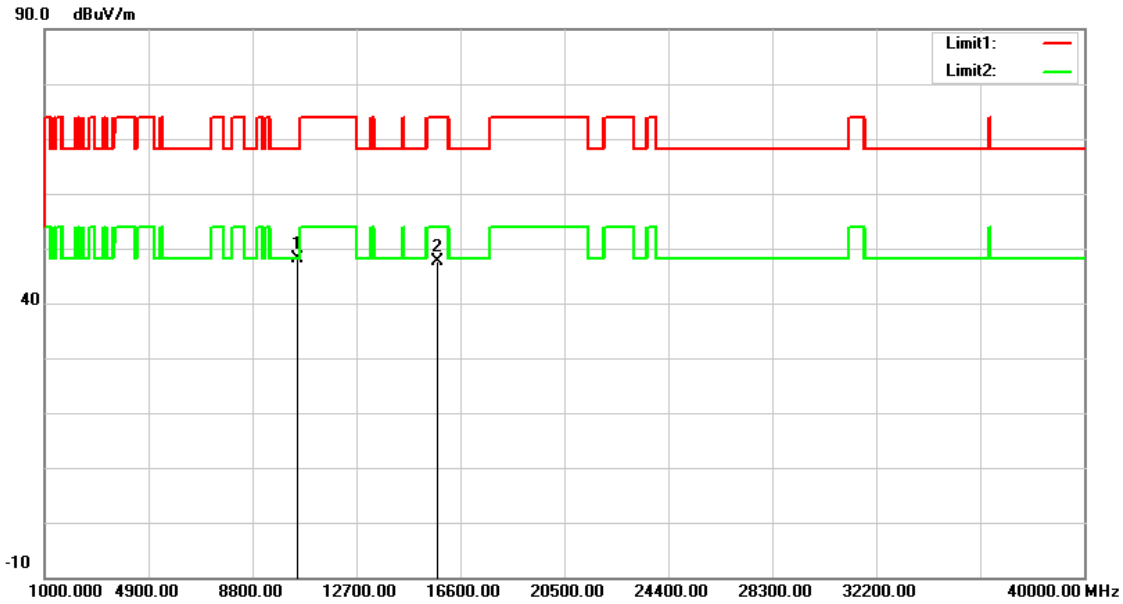
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 47.26 = 5.25 + 42.01

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-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		
Frequency:	5240 MHz		
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	42.89	5.25	48.14	68.20	-20.06	peak
2	15720.000	40.23	7.40	47.63	74.00	-26.37	peak

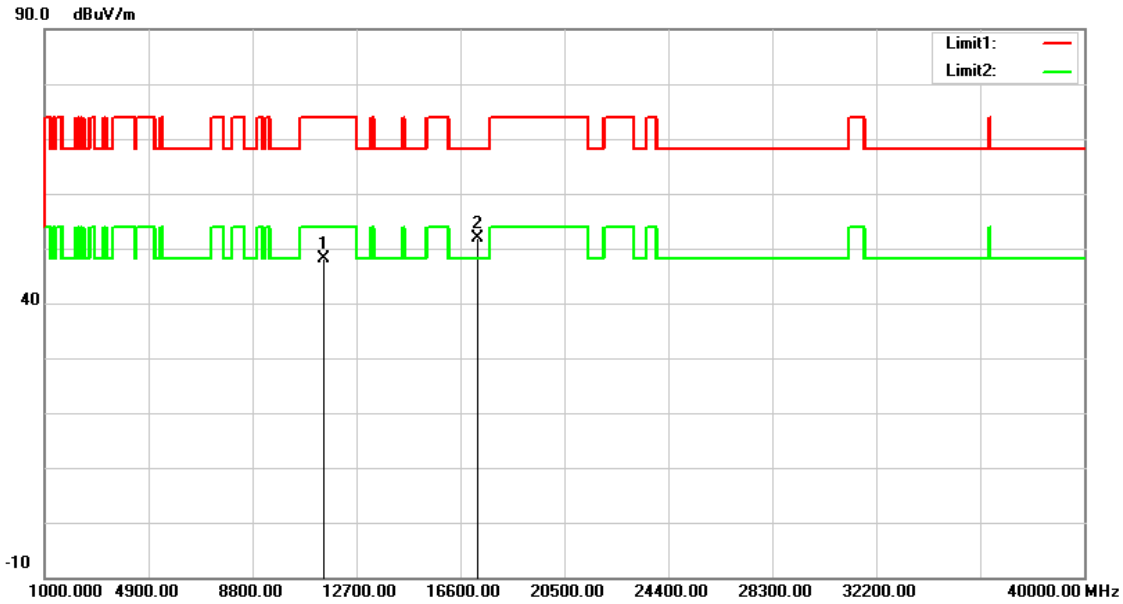
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 48.14 = 5.25 + 42.89

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-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		
Frequency:	5745 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



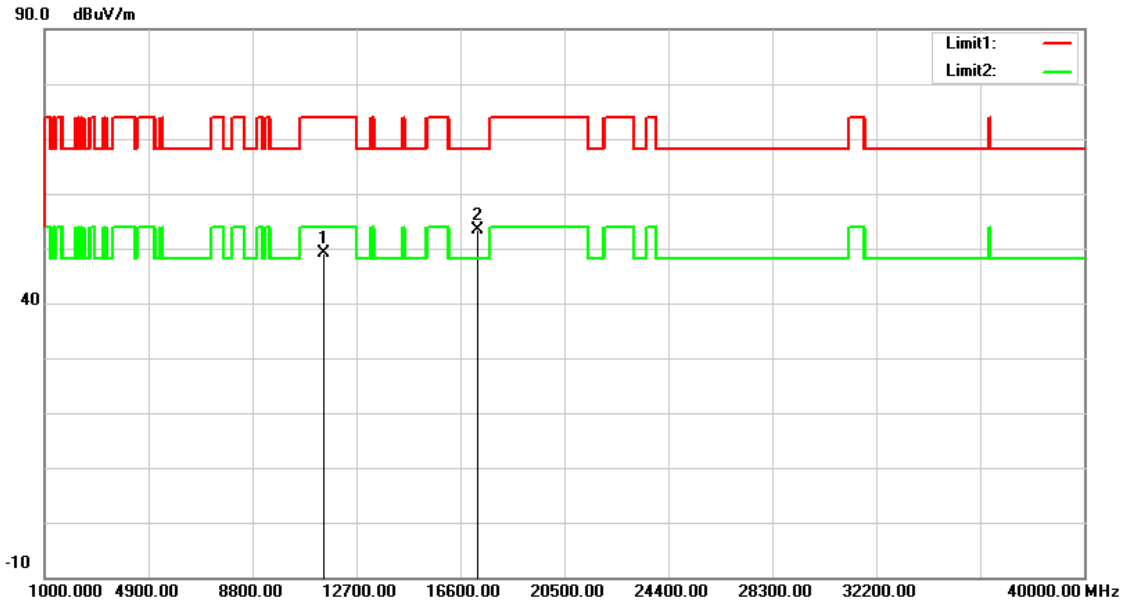
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	42.38	5.84	48.22	74.00	-25.78	peak
2	17235.000	40.85	11.12	51.97	68.20	-16.23	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5745 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



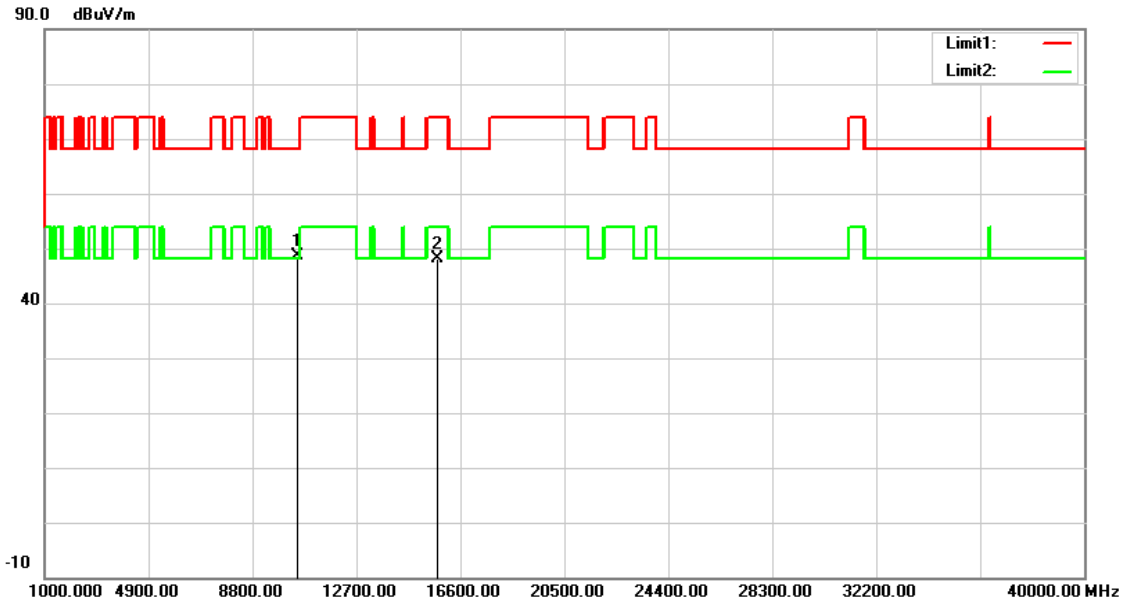
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	43.24	5.84	49.08	74.00	-24.92	peak
2	17235.000	42.15	11.12	53.27	68.20	-14.93	peak

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		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



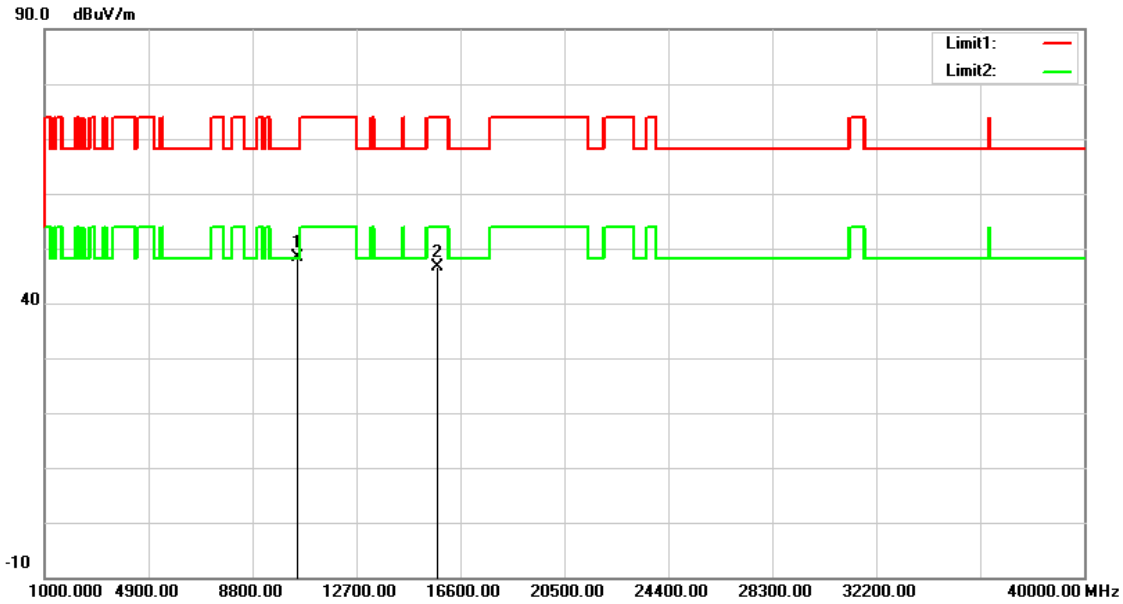
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	43.28	5.25	48.53	68.20	-19.67	peak
2	15720.000	40.62	7.40	48.02	74.00	-25.98	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



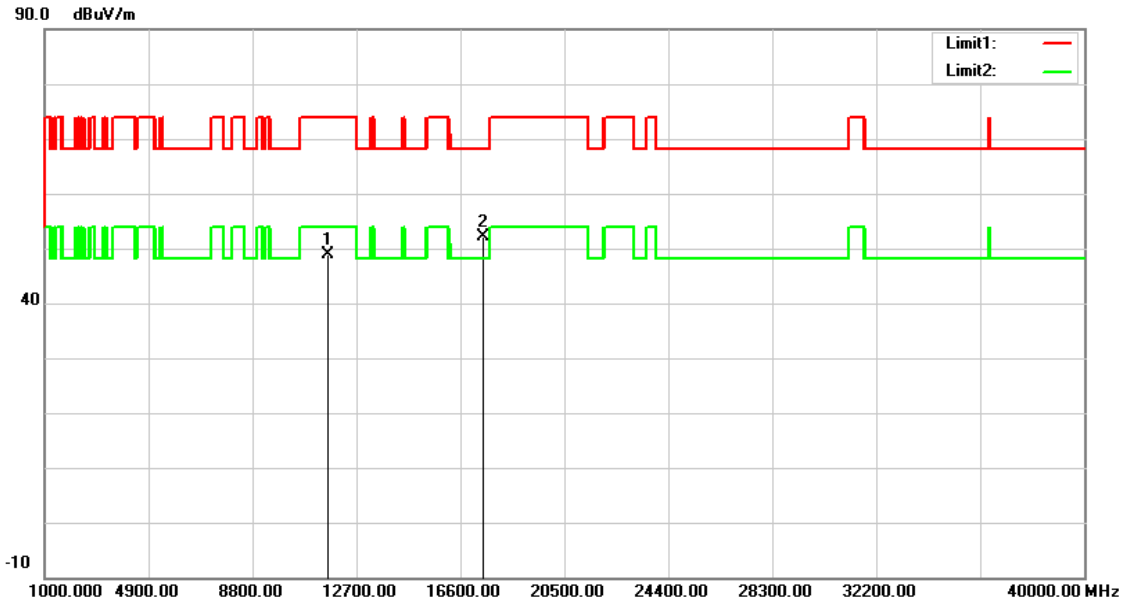
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	43.10	5.25	48.35	68.20	-19.85	peak
2	15720.000	39.22	7.40	46.62	74.00	-27.38	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5825 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



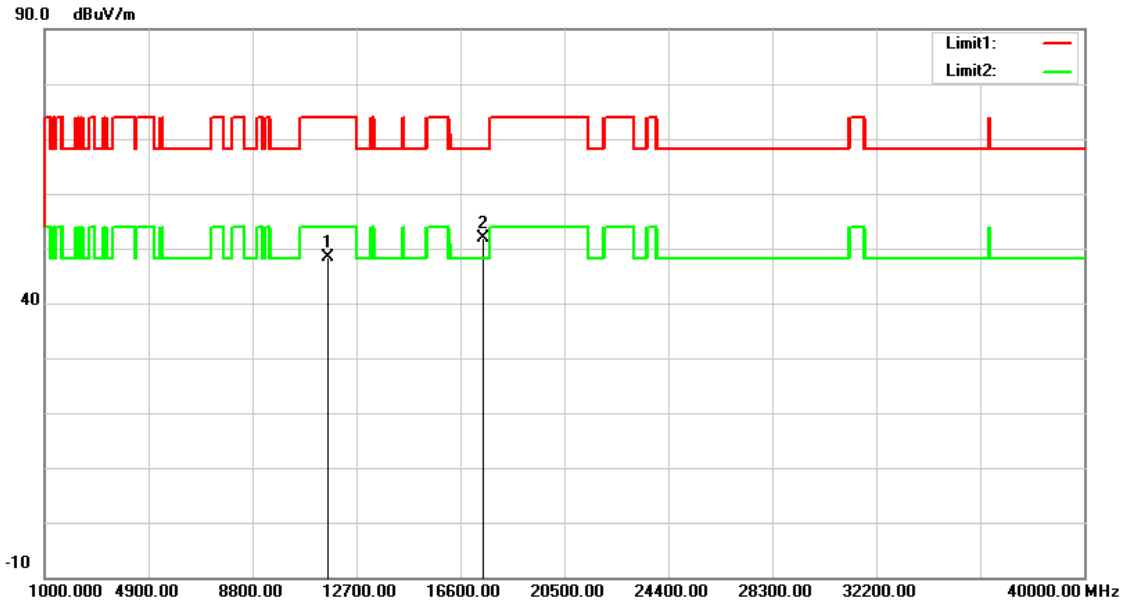
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	43.05	5.80	48.85	74.00	-25.15	peak
2	17475.000	40.23	11.79	52.02	68.20	-16.18	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5825 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



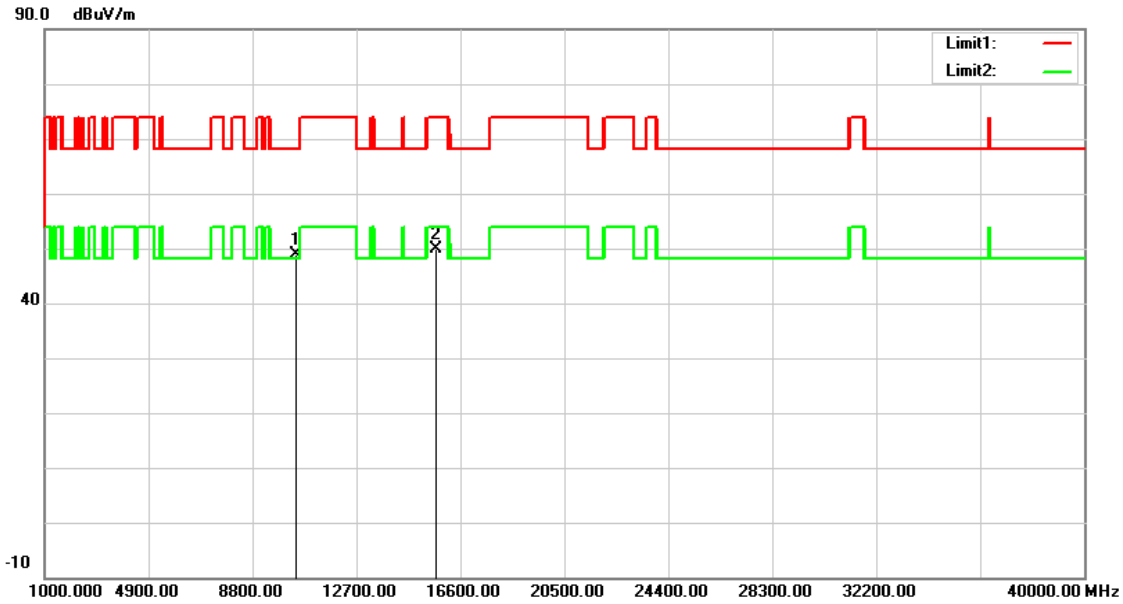
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	42.49	5.80	48.29	74.00	-25.71	peak
2	17475.000	40.09	11.79	51.88	68.20	-16.32	peak

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:	Harmonic		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



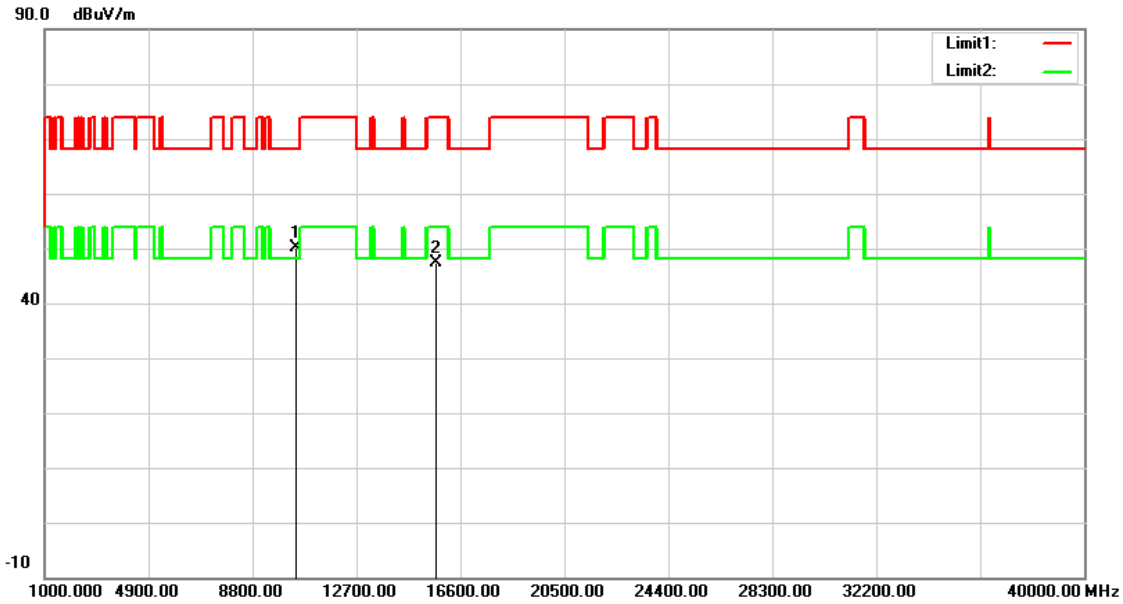
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	43.67	5.20	48.87	68.20	-19.33	peak
2	15690.000	42.46	7.45	49.91	74.00	-24.09	peak

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		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



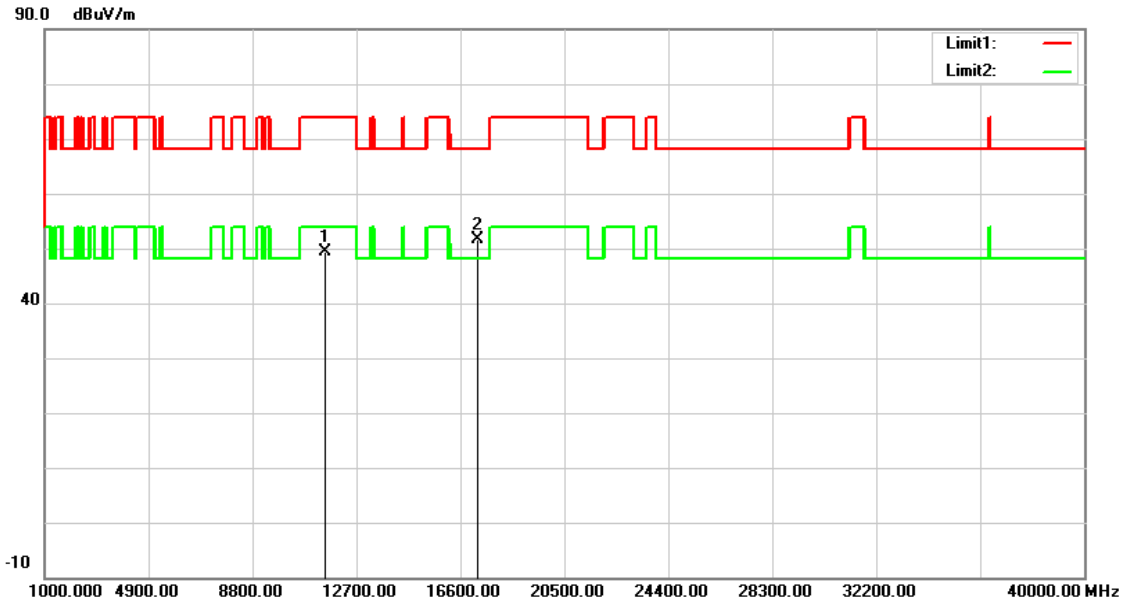
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	44.90	5.20	50.10	68.20	-18.10	peak
2	15690.000	39.82	7.45	47.27	74.00	-26.73	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5755 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



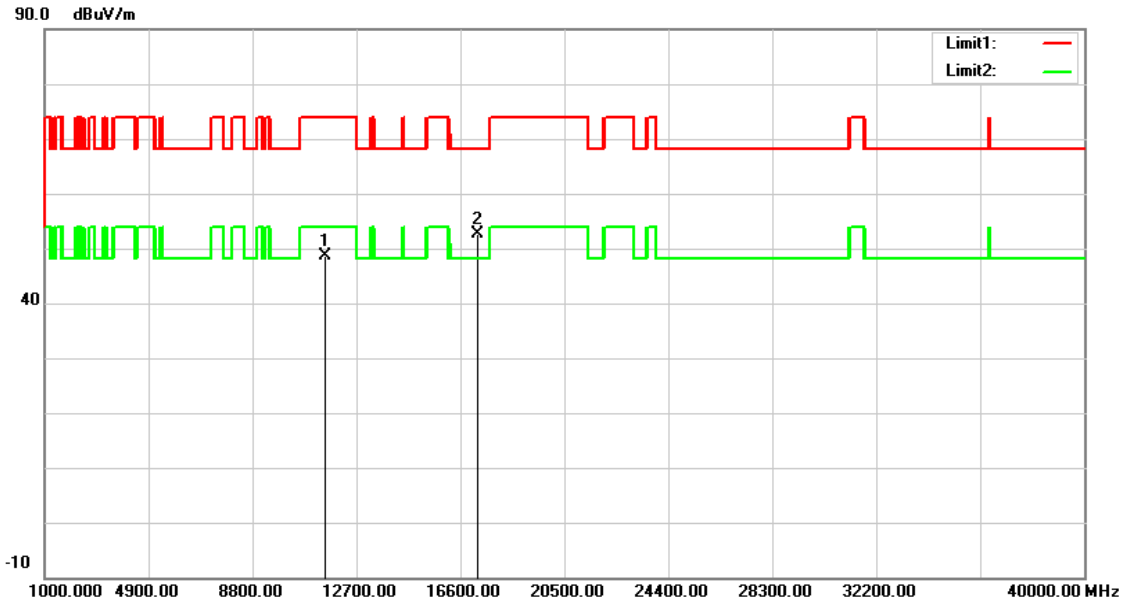
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	43.54	5.83	49.37	74.00	-24.63	peak
2	17265.000	40.34	11.21	51.55	68.20	-16.65	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5755 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



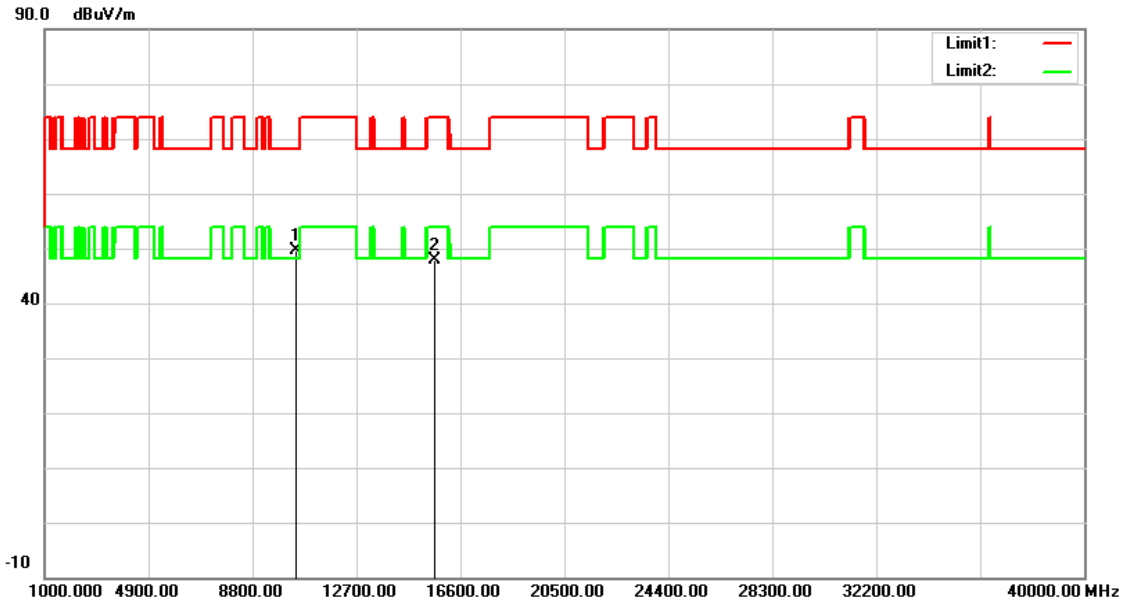
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	42.90	5.83	48.73	74.00	-25.27	peak
2	17265.000	41.52	11.21	52.73	68.20	-15.47	peak

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		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



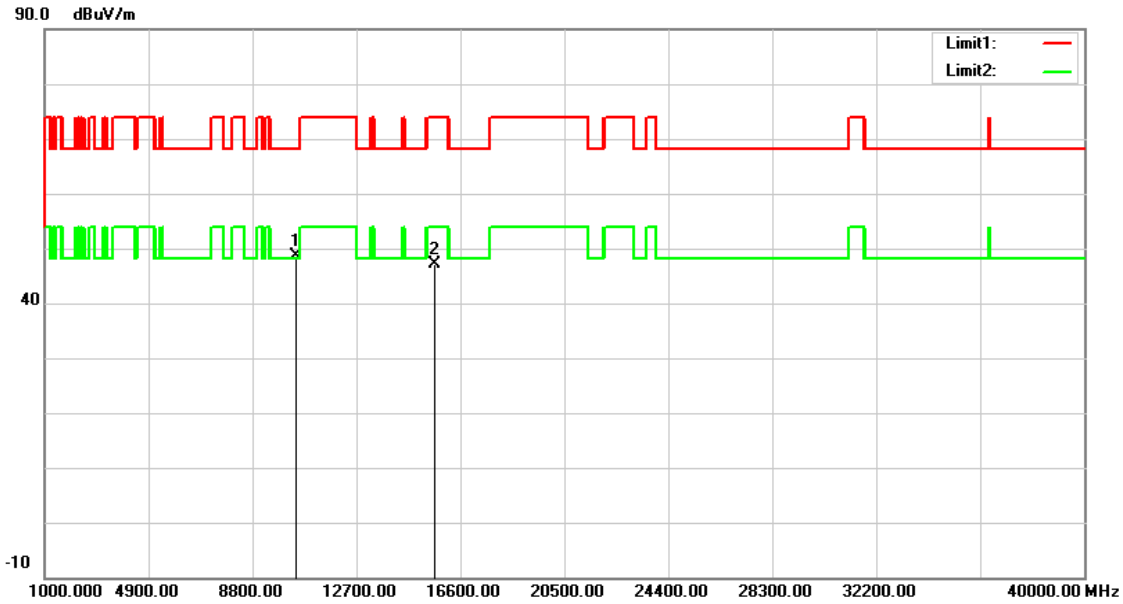
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	44.50	5.10	49.60	68.20	-18.60	peak
2	15630.000	40.32	7.55	47.87	74.00	-26.13	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



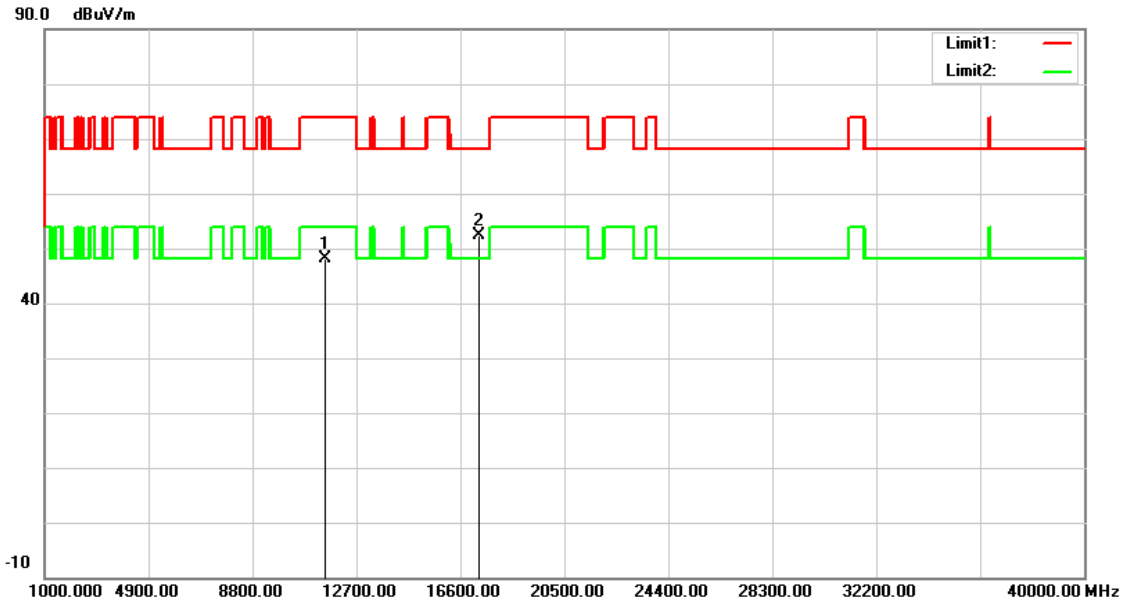
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	43.44	5.10	48.54	68.20	-19.66	peak
2	15630.000	39.61	7.55	47.16	74.00	-26.84	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



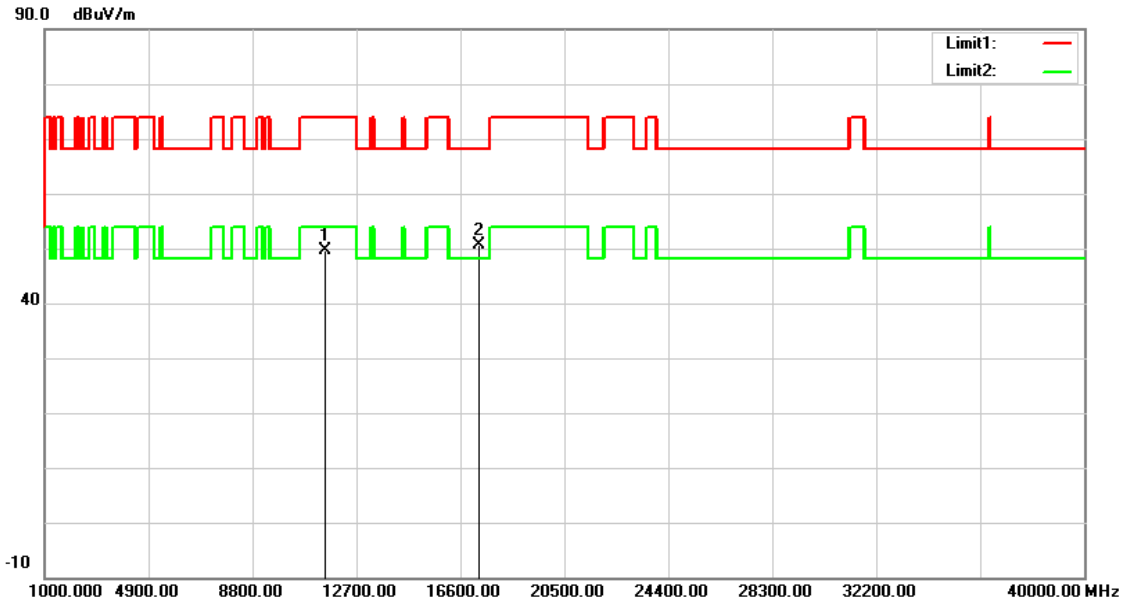
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	42.38	5.82	48.20	74.00	-25.80	peak
2	17325.000	40.98	11.37	52.35	68.20	-15.85	peak

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		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



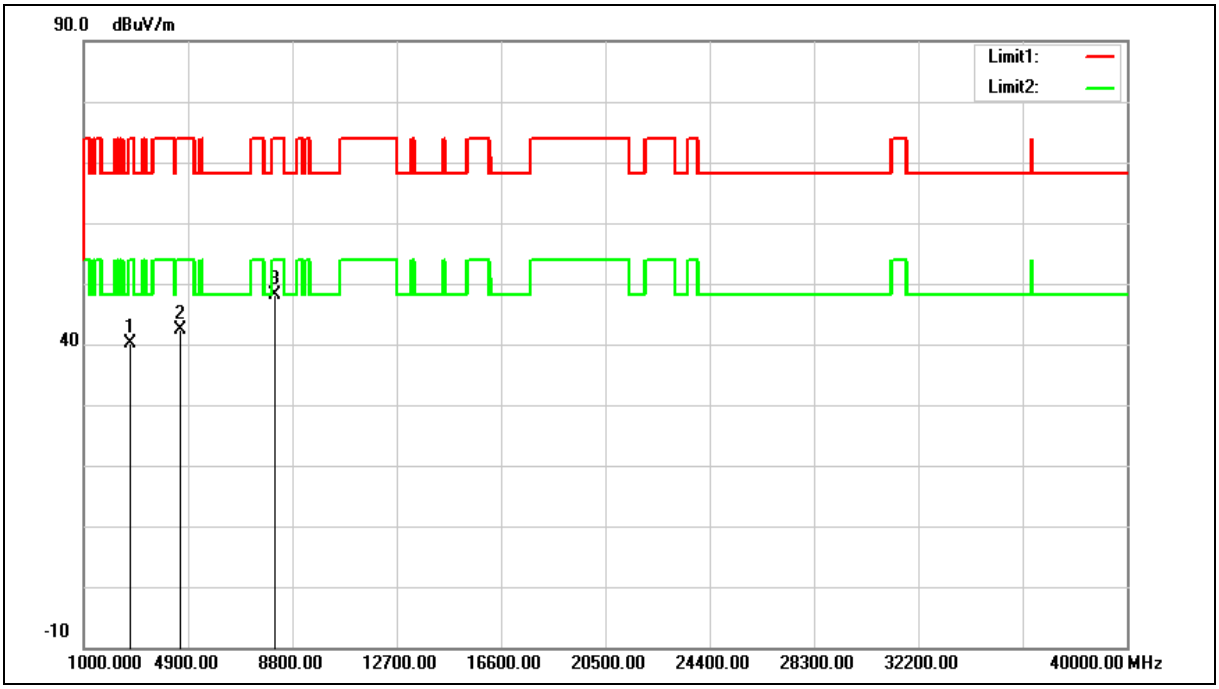
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	43.72	5.82	49.54	74.00	-24.46	peak
2	17325.000	39.37	11.37	50.74	68.20	-17.46	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Transmitter Unwanted Emissions		
Test Mode:	Simultaneous Transmitting		
	(WLAN 2.4 + 5 GHz)		
Ant.Polar.:	Horizontal		



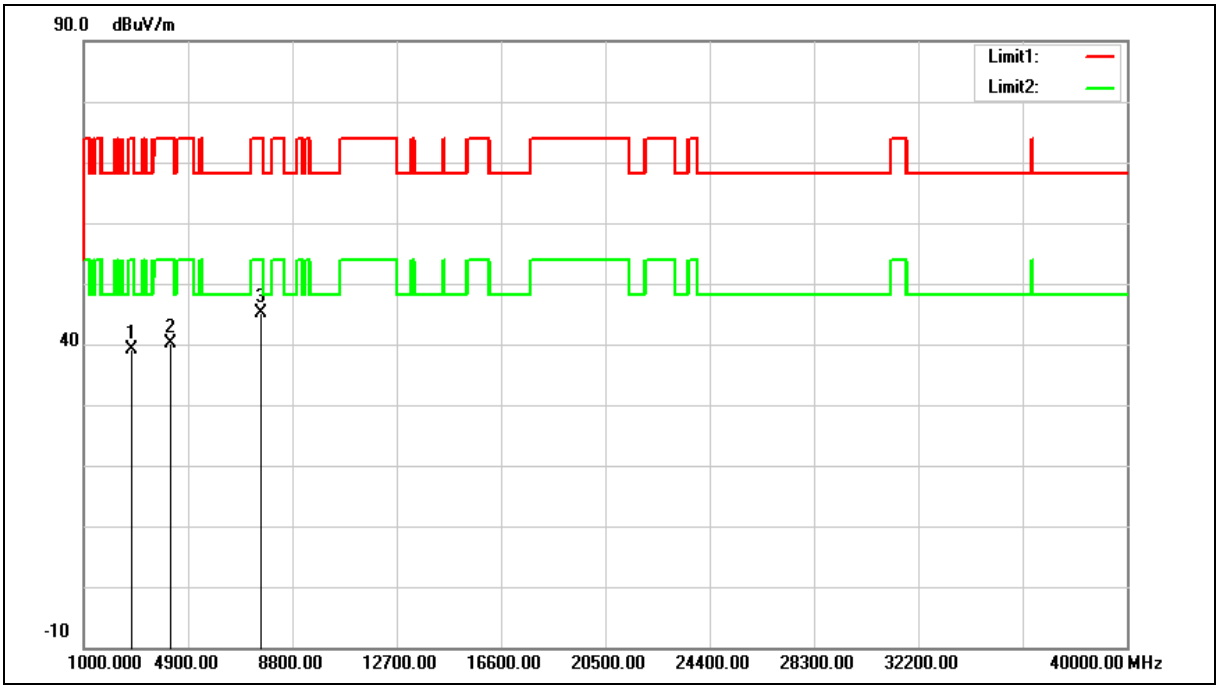
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2734.000	53.05	-13.01	40.04	74.00	-33.96	peak
2	4587.000	51.41	-9.04	42.37	74.00	-31.63	peak
3	8106.000	46.46	1.55	48.01	74.00	-25.99	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Transmitter Unwanted Emissions		
Test Mode:	Simultaneous Transmitting		
	(WLAN 2.4 + 5 GHz)		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2785.000	51.94	-12.89	39.05	74.00	-34.95	peak
2	4247.000	49.94	-9.69	40.25	74.00	-33.75	peak
3	7613.000	44.74	0.49	45.23	74.00	-28.77	peak

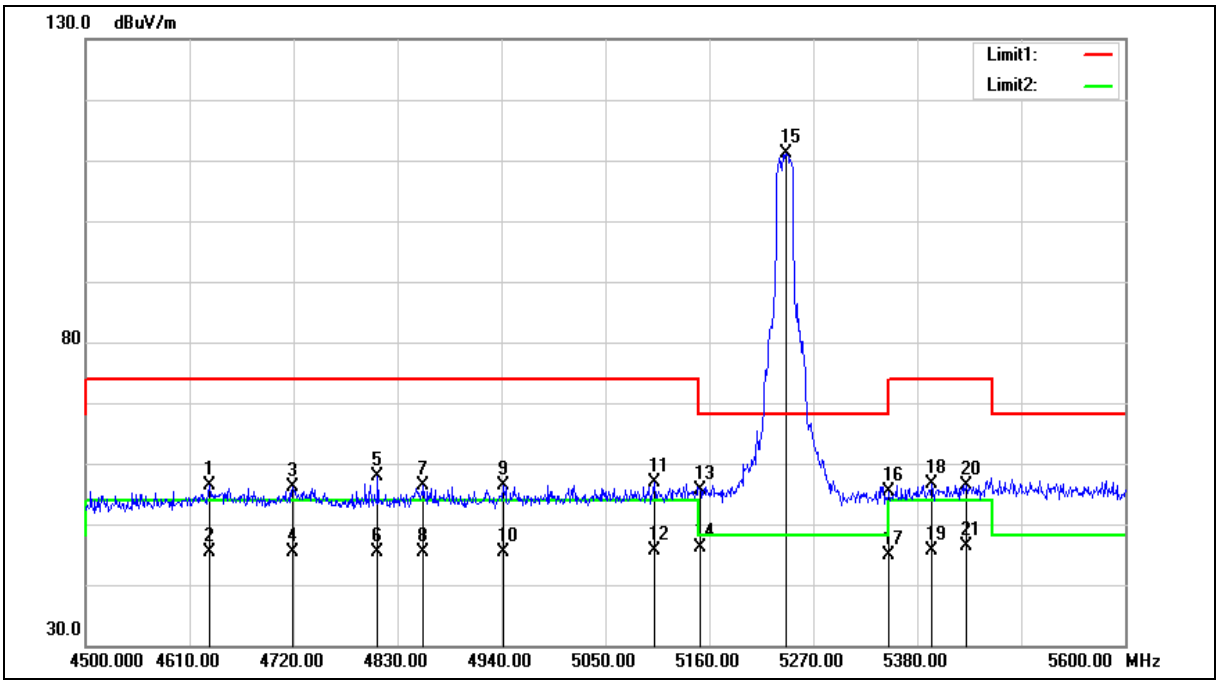
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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

Band Edge

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

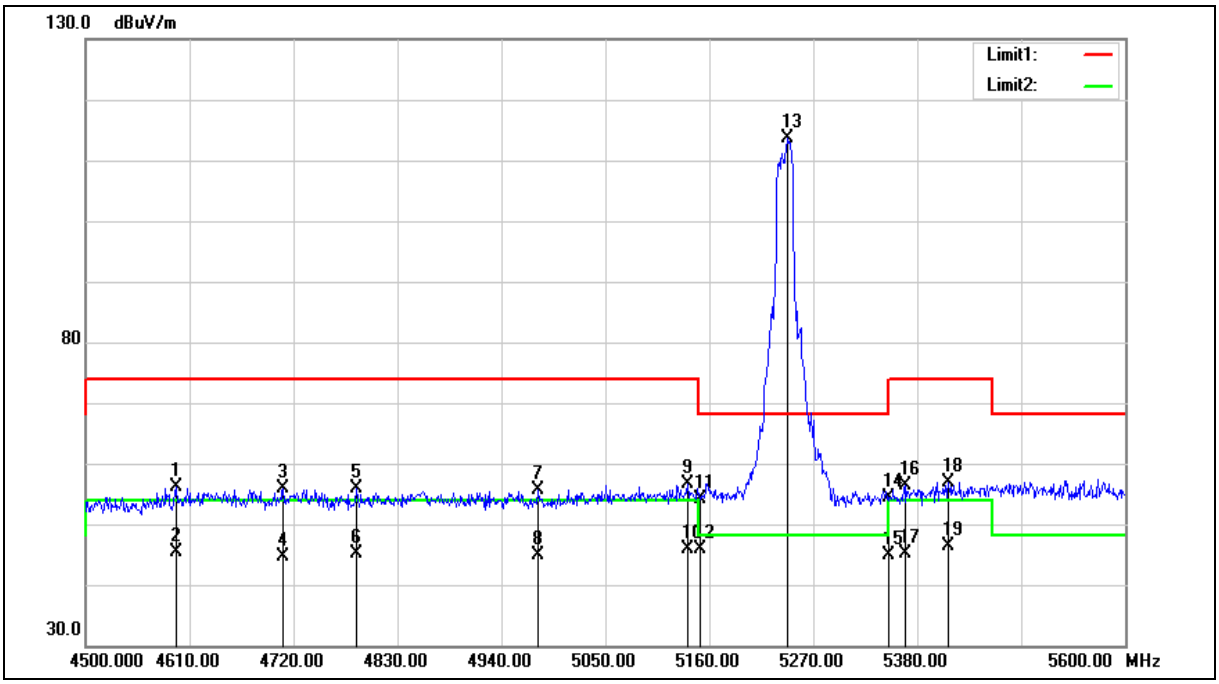
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4630.900	65.42	-8.94	56.48	74.00	-17.52	peak
2	4630.900	54.31	-8.94	45.37	54.00	-8.63	AVG
3	4718.900	64.98	-8.74	56.24	74.00	-17.76	peak
4	4718.900	54.14	-8.74	45.40	54.00	-8.60	AVG
5	4809.100	66.50	-8.52	57.98	74.00	-16.02	peak
6	4809.100	53.87	-8.52	45.35	54.00	-8.65	AVG
7	4857.500	64.77	-8.41	56.36	74.00	-17.64	peak
8	4857.500	53.87	-8.41	45.46	54.00	-8.54	AVG
9	4942.200	64.69	-8.20	56.49	74.00	-17.51	peak
10	4942.200	53.49	-8.20	45.29	54.00	-8.71	AVG
11	5101.700	64.67	-7.80	56.87	74.00	-17.13	peak
12	5101.700	53.41	-7.80	45.61	54.00	-8.39	AVG
13	5150.000	63.20	-7.67	55.53	74.00	-18.47	peak
14	5150.000	53.70	-7.67	46.03	54.00	-7.97	AVG
15	5241.400	118.67	-7.43	111.24	--	--	peak
16	5350.000	62.46	-7.12	55.34	74.00	-18.66	peak
17	5350.000	51.98	-7.12	44.86	54.00	-9.14	AVG
18	5395.400	63.54	-7.00	56.54	74.00	-17.46	peak
19	5395.400	52.70	-7.00	45.70	54.00	-8.30	AVG
20	5431.700	63.27	-6.90	56.37	74.00	-17.63	peak
21	5431.700	53.27	-6.90	46.37	54.00	-7.63	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		
Frequency:	5240 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		

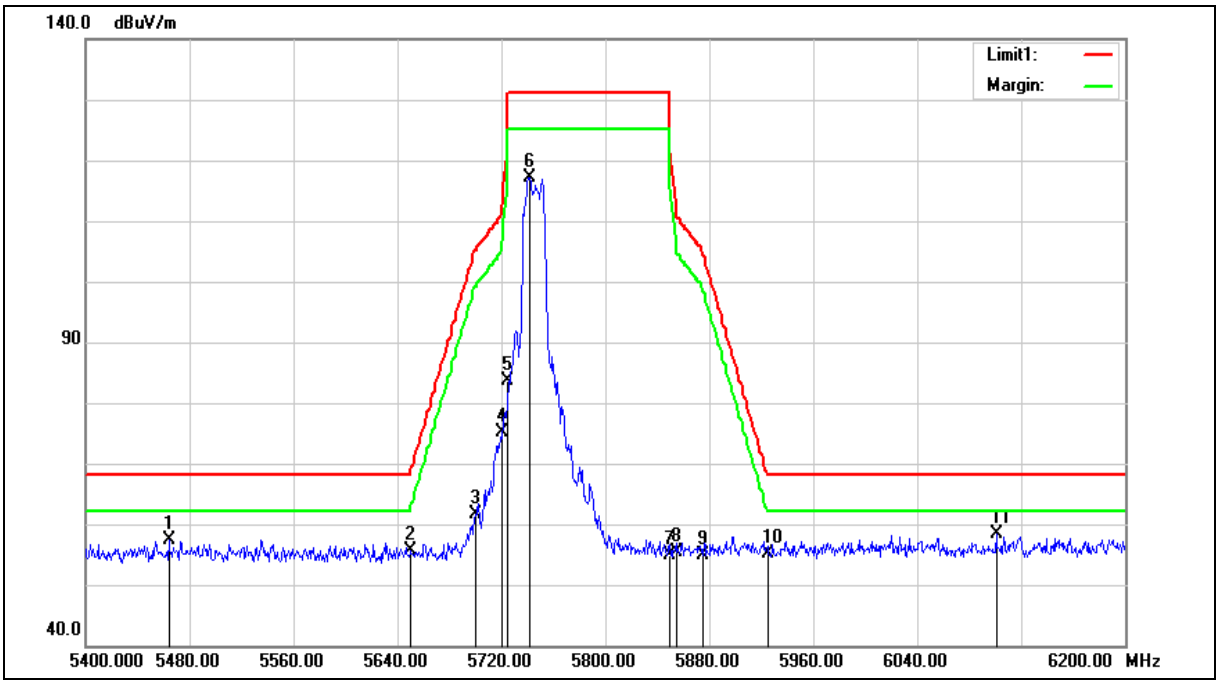
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4595.700	65.03	-9.02	56.01	74.00	-17.99	peak
2	4595.700	54.33	-9.02	45.31	54.00	-8.69	AVG
3	4709.000	64.63	-8.76	55.87	74.00	-18.13	peak
4	4709.000	53.41	-8.76	44.65	54.00	-9.35	AVG
5	4787.100	64.36	-8.57	55.79	74.00	-18.21	peak
6	4787.100	53.64	-8.57	45.07	54.00	-8.93	AVG
7	4978.500	63.84	-8.12	55.72	74.00	-18.28	peak
8	4978.500	52.88	-8.12	44.76	54.00	-9.24	AVG
9	5136.900	64.30	-7.70	56.60	74.00	-17.40	peak
10	5136.900	53.61	-7.70	45.91	54.00	-8.09	AVG
11	5150.000	61.73	-7.67	54.06	74.00	-19.94	peak
12	5150.000	53.50	-7.67	45.83	54.00	-8.17	AVG
13	5242.500	120.93	-7.42	113.51	--	--	peak
14	5350.000	61.46	-7.12	54.34	74.00	-19.66	peak
15	5350.000	51.94	-7.12	44.82	54.00	-9.18	AVG
16	5366.800	63.35	-7.08	56.27	74.00	-17.73	peak
17	5366.800	52.30	-7.08	45.22	54.00	-8.78	AVG
18	5413.000	63.75	-6.96	56.79	74.00	-17.21	peak
19	5413.000	53.23	-6.96	46.27	54.00	-7.73	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:	Band edge		
Frequency:	5745 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5745 MHz		
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

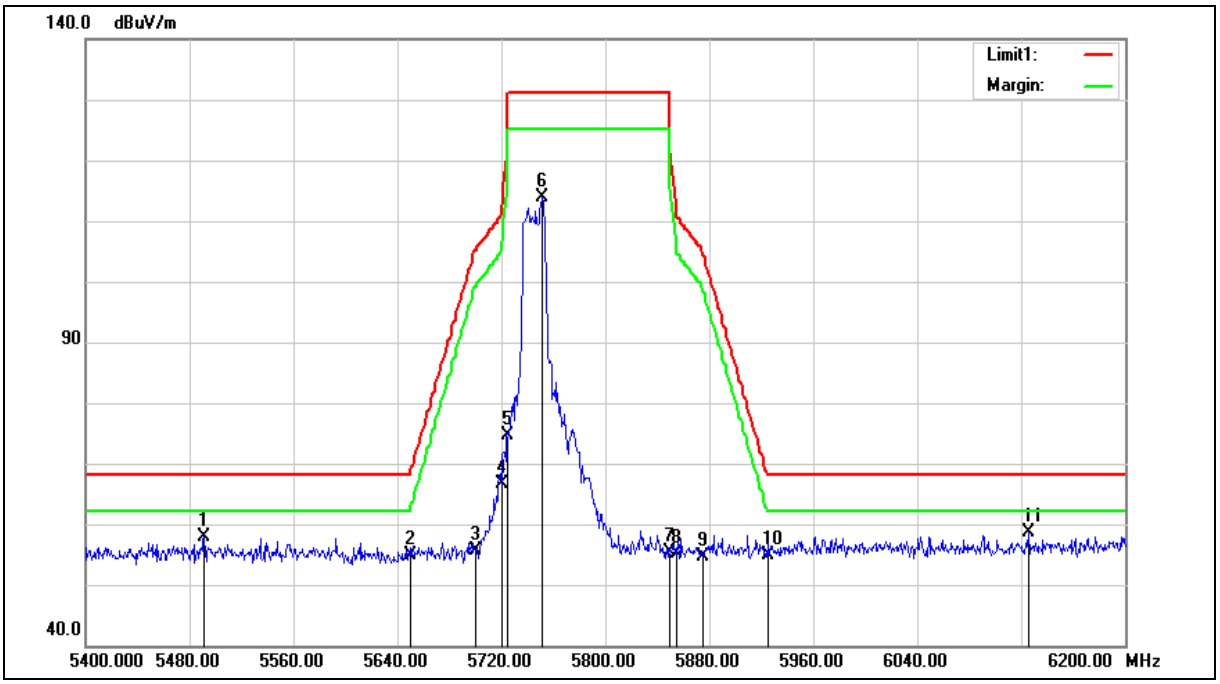
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5464.000	64.21	-6.81	57.40	68.20	-10.80	peak
2	5650.000	61.86	-6.32	55.54	68.20	-12.66	peak
3	5700.000	67.71	-6.19	61.52	105.20	-43.68	peak
4	5720.000	81.29	-6.14	75.15	110.80	-35.65	peak
5	5725.000	89.79	-6.14	83.65	122.20	-38.55	peak
6	5741.600	123.23	-6.08	117.15	--	--	peak
7	5850.000	60.61	-5.81	54.80	122.20	-67.40	peak
8	5855.000	61.20	-5.78	55.42	110.80	-55.38	peak
9	5875.000	60.52	-5.73	54.79	105.20	-50.41	peak
10	5925.000	60.67	-5.60	55.07	68.20	-13.13	peak
11	6100.800	63.44	-5.05	58.39	68.20	-9.81	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5745 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5745 MHz		
Mode:	Mode 2		
Ant.Polar.:	Vertical		

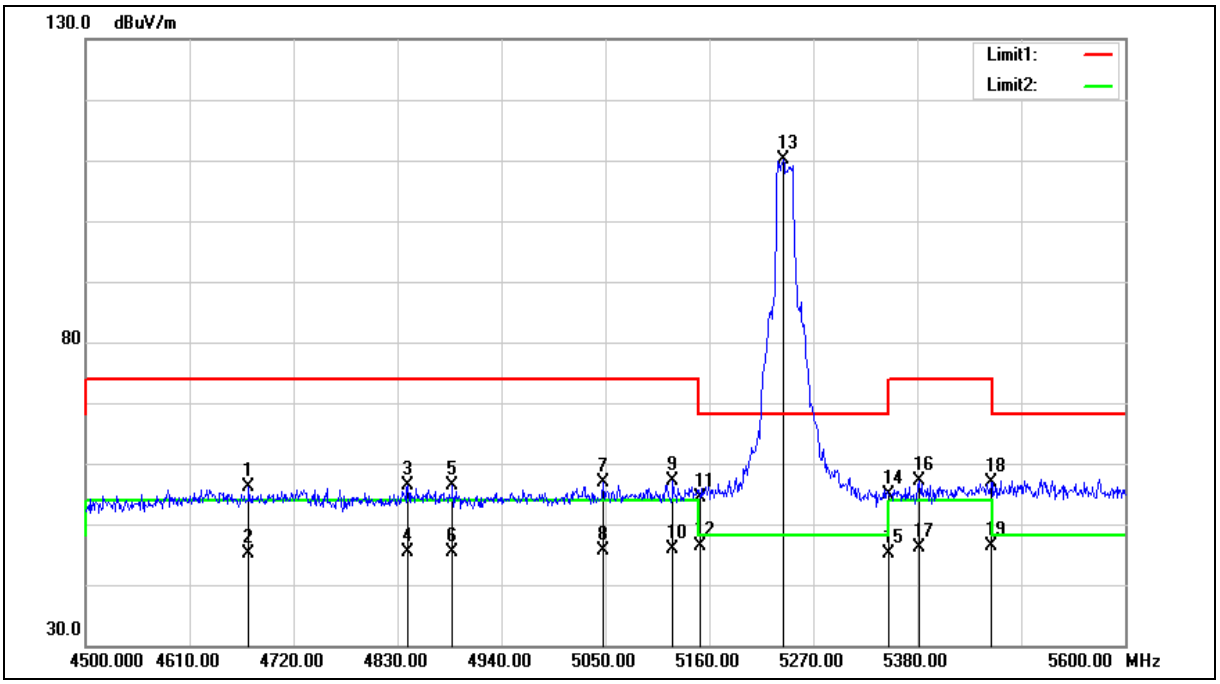
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5491.200	64.64	-6.75	57.89	68.20	-10.31	peak
2	5650.000	61.24	-6.32	54.92	68.20	-13.28	peak
3	5700.000	61.78	-6.19	55.59	105.20	-49.61	peak
4	5720.000	72.73	-6.14	66.59	110.80	-44.21	peak
5	5725.000	80.66	-6.14	74.52	122.20	-47.68	peak
6	5751.200	119.86	-6.06	113.80	--	--	peak
7	5850.000	61.21	-5.81	55.40	122.20	-66.80	peak
8	5855.000	60.89	-5.78	55.11	110.80	-55.69	peak
9	5875.000	60.36	-5.73	54.63	105.20	-50.57	peak
10	5925.000	60.50	-5.60	54.90	68.20	-13.30	peak
11	6125.600	63.52	-4.97	58.55	68.20	-9.65	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

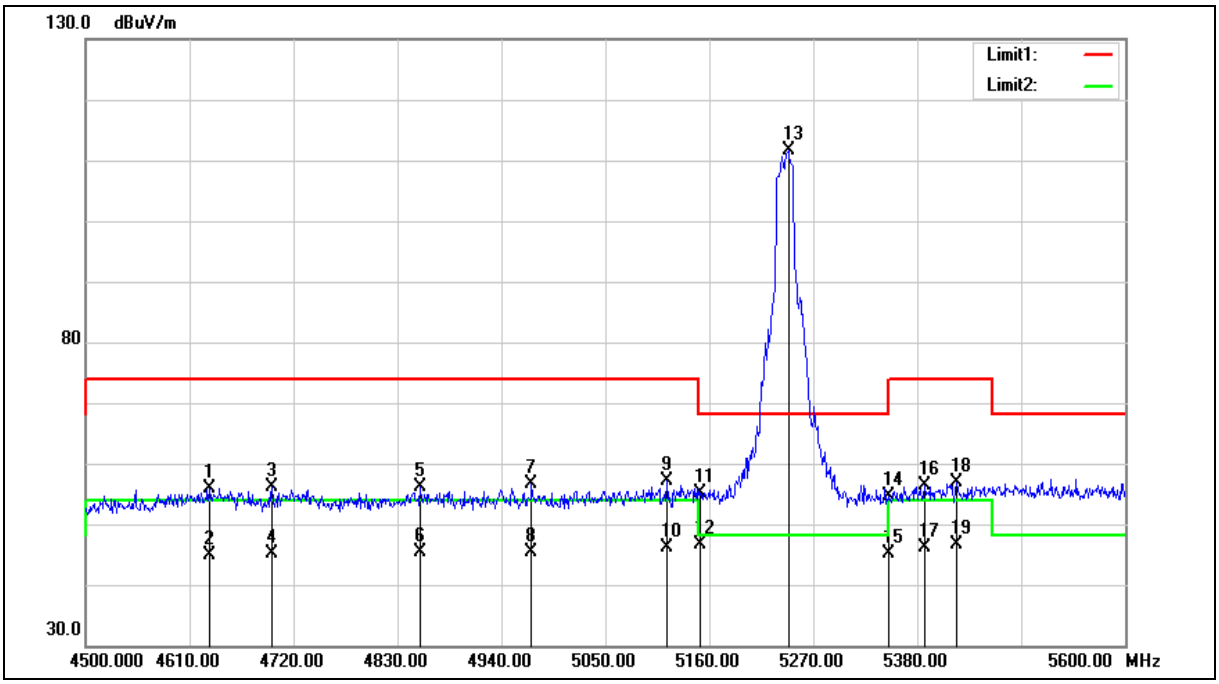
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4672.700	64.99	-8.84	56.15	74.00	-17.85	peak
2	4672.700	53.91	-8.84	45.07	54.00	-8.93	AVG
3	4841.000	64.70	-8.44	56.26	74.00	-17.74	peak
4	4841.000	53.76	-8.44	45.32	54.00	-8.68	AVG
5	4888.300	64.72	-8.34	56.38	74.00	-17.62	peak
6	4888.300	53.74	-8.34	45.40	54.00	-8.60	AVG
7	5047.800	64.90	-7.94	56.96	74.00	-17.04	peak
8	5047.800	53.67	-7.94	45.73	54.00	-8.27	AVG
9	5121.500	64.94	-7.74	57.20	74.00	-16.80	peak
10	5121.500	53.60	-7.74	45.86	54.00	-8.14	AVG
11	5150.000	62.02	-7.67	54.35	74.00	-19.65	peak
12	5150.000	53.97	-7.67	46.30	54.00	-7.70	AVG
13	5238.100	117.67	-7.43	110.24	--	--	peak
14	5350.000	62.02	-7.12	54.90	74.00	-19.10	peak
15	5350.000	52.17	-7.12	45.05	54.00	-8.95	AVG
16	5382.200	64.13	-7.03	57.10	74.00	-16.90	peak
17	5382.200	53.25	-7.03	46.22	54.00	-7.78	AVG
18	5458.100	63.81	-6.83	56.98	74.00	-17.02	peak
19	5458.100	53.26	-6.83	46.43	54.00	-7.57	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		

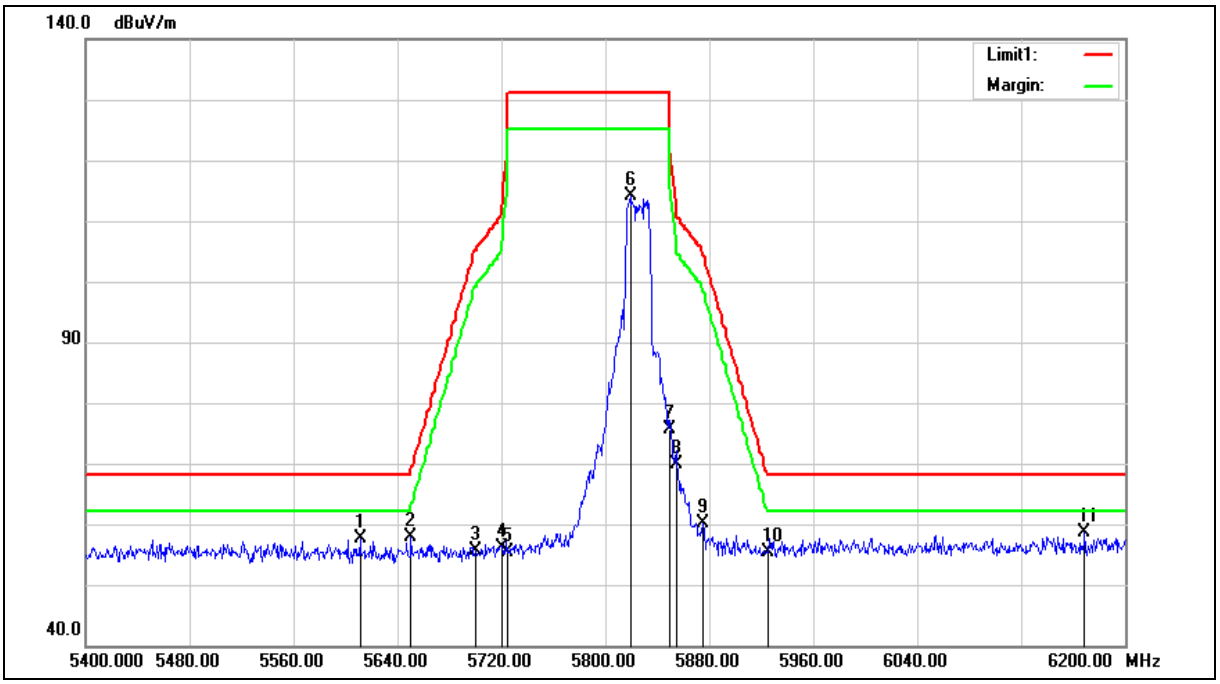
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4630.900	64.86	-8.94	55.92	74.00	-18.08	peak
2	4630.900	53.80	-8.94	44.86	54.00	-9.14	AVG
3	4696.900	64.96	-8.78	56.18	74.00	-17.82	peak
4	4696.900	53.97	-8.78	45.19	54.00	-8.81	AVG
5	4854.200	64.48	-8.41	56.07	74.00	-17.93	peak
6	4854.200	53.72	-8.41	45.31	54.00	-8.69	AVG
7	4971.900	64.87	-8.13	56.74	74.00	-17.26	peak
8	4971.900	53.63	-8.13	45.50	54.00	-8.50	AVG
9	5114.900	64.81	-7.76	57.05	74.00	-16.95	peak
10	5114.900	53.96	-7.76	46.20	54.00	-7.80	AVG
11	5150.000	62.70	-7.67	55.03	74.00	-18.97	peak
12	5150.000	54.23	-7.67	46.56	54.00	-7.44	AVG
13	5243.600	119.04	-7.42	111.62	--	--	peak
14	5350.000	61.70	-7.12	54.58	74.00	-19.42	peak
15	5350.000	52.17	-7.12	45.05	54.00	-8.95	AVG
16	5387.700	63.33	-7.02	56.31	74.00	-17.69	peak
17	5387.700	53.13	-7.02	46.11	54.00	-7.89	AVG
18	5421.800	63.74	-6.93	56.81	74.00	-17.19	peak
19	5421.800	53.67	-6.93	46.74	54.00	-7.26	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5825 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5825 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

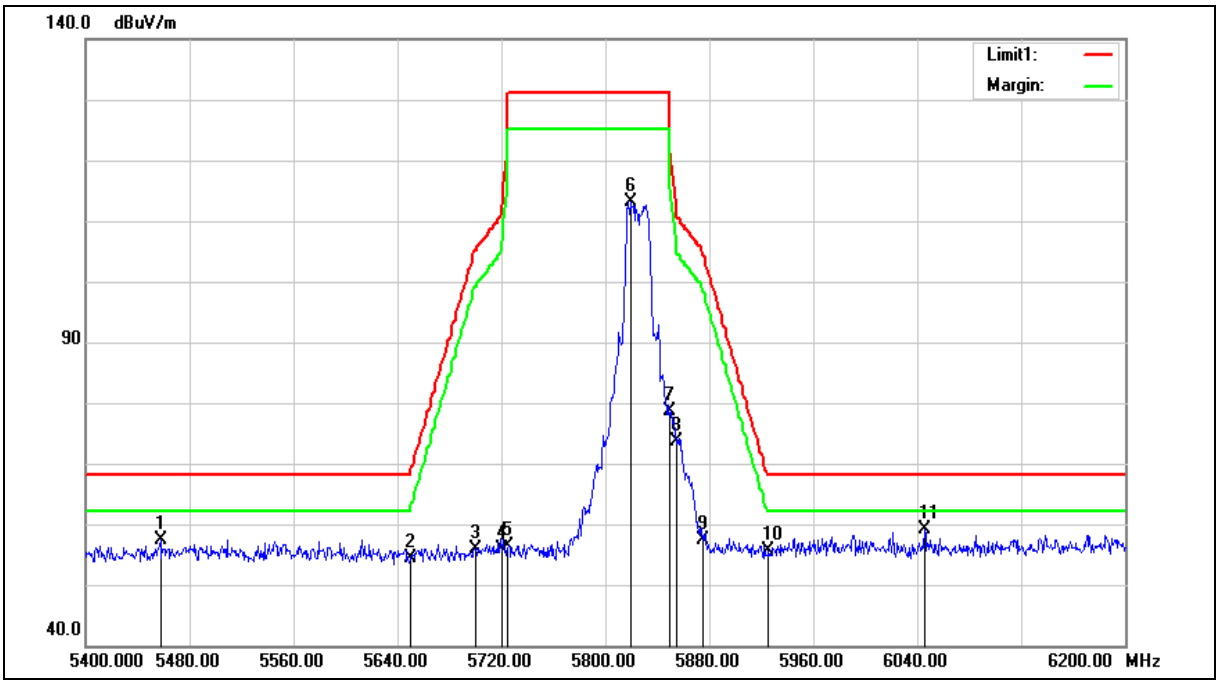
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5611.200	64.13	-6.42	57.71	68.20	-10.49	peak
2	5650.000	64.28	-6.32	57.96	68.20	-10.24	peak
3	5700.000	61.77	-6.19	55.58	105.20	-49.62	peak
4	5720.000	62.34	-6.14	56.20	110.80	-54.60	peak
5	5725.000	61.61	-6.14	55.47	122.20	-66.73	peak
6	5819.200	120.10	-5.88	114.22	--	--	peak
7	5850.000	81.48	-5.81	75.67	122.20	-46.53	peak
8	5855.000	75.75	-5.78	69.97	110.80	-40.83	peak
9	5875.000	65.75	-5.73	60.02	105.20	-45.18	peak
10	5925.000	60.92	-5.60	55.32	68.20	-12.88	peak
11	6168.800	63.53	-4.82	58.71	68.20	-9.49	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		
Frequency:	5825 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5825 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		

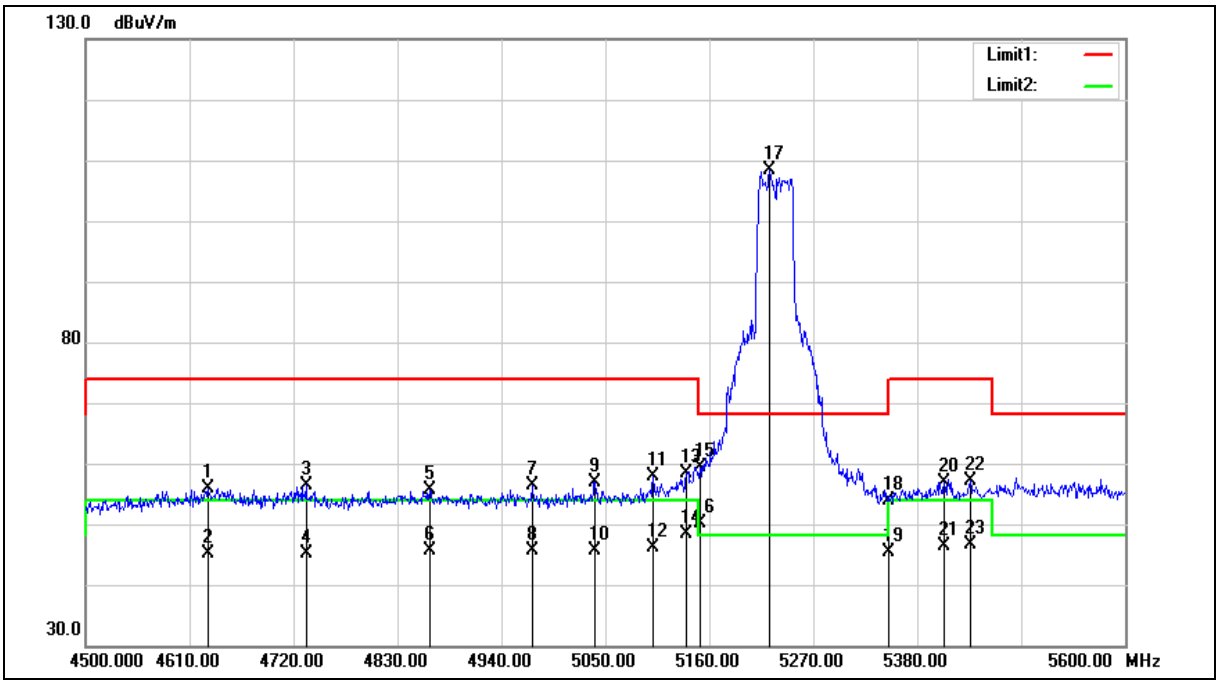
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.600	64.23	-6.83	57.40	68.20	-10.80	peak
2	5650.000	60.66	-6.32	54.34	68.20	-13.86	peak
3	5700.000	61.99	-6.19	55.80	105.20	-49.40	peak
4	5720.000	62.02	-6.14	55.88	110.80	-54.92	peak
5	5725.000	62.45	-6.14	56.31	122.20	-65.89	peak
6	5819.200	119.01	-5.88	113.13	--	--	peak
7	5850.000	84.54	-5.81	78.73	122.20	-43.47	peak
8	5855.000	79.40	-5.78	73.62	110.80	-37.18	peak
9	5875.000	63.03	-5.73	57.30	105.20	-47.90	peak
10	5925.000	61.18	-5.60	55.58	68.20	-12.62	peak
11	6045.600	64.25	-5.24	59.01	68.20	-9.19	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		

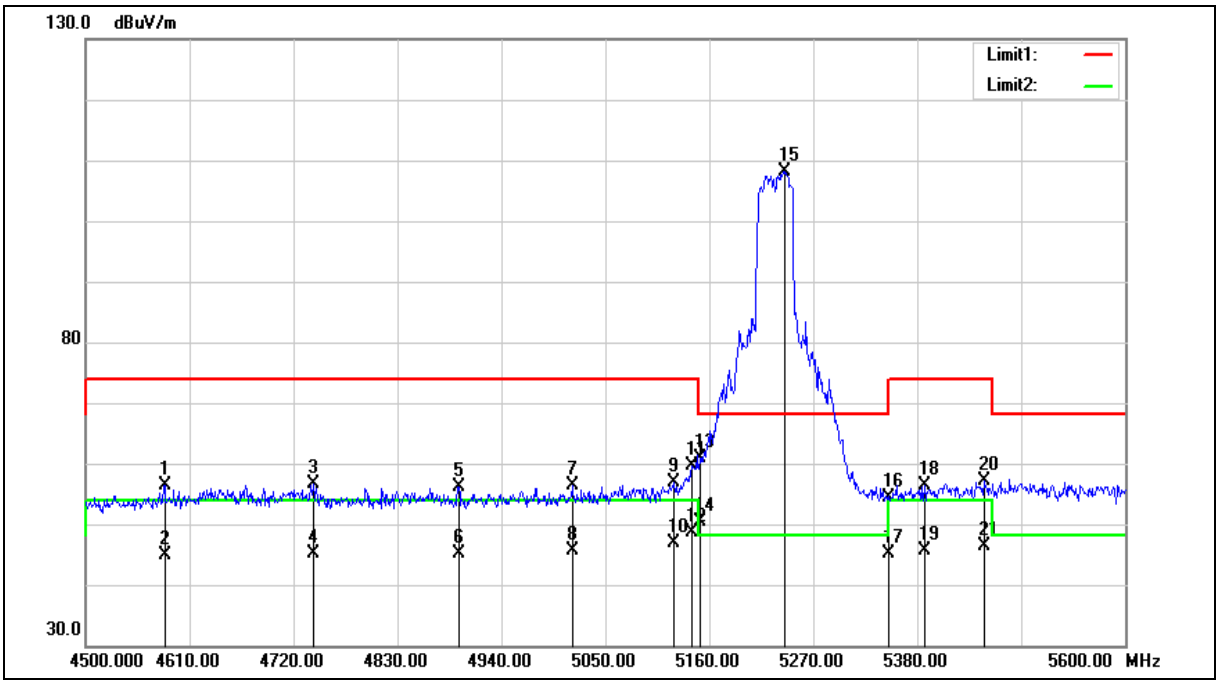
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4629.800	64.80	-8.94	55.86	74.00	-18.14	peak
2	4629.800	54.01	-8.94	45.07	54.00	-8.93	AVG
3	4733.200	65.11	-8.71	56.40	74.00	-17.60	peak
4	4733.200	53.86	-8.71	45.15	54.00	-8.85	AVG
5	4864.100	64.11	-8.40	55.71	74.00	-18.29	peak
6	4864.100	53.91	-8.40	45.51	54.00	-8.49	AVG
7	4973.000	64.42	-8.13	56.29	74.00	-17.71	peak
8	4973.000	53.71	-8.13	45.58	54.00	-8.42	AVG
9	5039.000	64.97	-7.97	57.00	74.00	-17.00	peak
10	5039.000	53.60	-7.97	45.63	54.00	-8.37	AVG
11	5100.600	65.67	-7.80	57.87	74.00	-16.13	peak
12	5100.600	53.96	-7.80	46.16	54.00	-7.84	AVG
13	5135.800	66.10	-7.71	58.39	74.00	-15.61	peak
14	5135.800	55.99	-7.71	48.28	54.00	-5.72	AVG
15	5150.000	67.11	-7.67	59.44	74.00	-14.56	peak
16	5150.000	57.68	-7.67	50.01	54.00	-3.99	AVG
17	5223.800	115.73	-7.47	108.26	--	--	peak
18	5350.000	61.07	-7.12	53.95	74.00	-20.05	peak
19	5350.000	52.45	-7.12	45.33	54.00	-8.67	AVG
20	5408.600	63.87	-6.96	56.91	74.00	-17.09	peak
21	5408.600	53.33	-6.96	46.37	54.00	-7.63	AVG
22	5436.100	64.09	-6.90	57.19	74.00	-16.81	peak
23	5436.100	53.49	-6.90	46.59	54.00	-7.41	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		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		

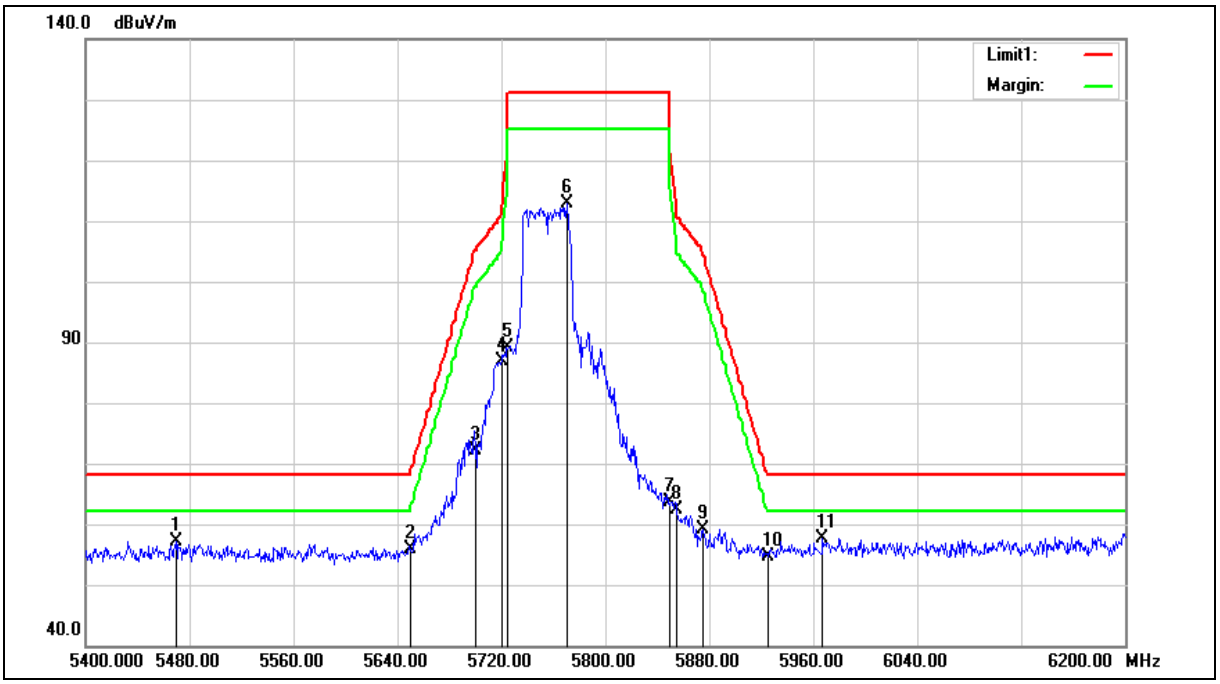
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4583.600	65.53	-9.05	56.48	74.00	-17.52	peak
2	4583.600	54.01	-9.05	44.96	54.00	-9.04	AVG
3	4740.900	65.33	-8.68	56.65	74.00	-17.35	peak
4	4740.900	53.70	-8.68	45.02	54.00	-8.98	AVG
5	4894.900	64.48	-8.32	56.16	74.00	-17.84	peak
6	4894.900	53.45	-8.32	45.13	54.00	-8.87	AVG
7	5014.800	64.29	-8.03	56.26	74.00	-17.74	peak
8	5014.800	53.60	-8.03	45.57	54.00	-8.43	AVG
9	5122.600	64.50	-7.74	56.76	74.00	-17.24	peak
10	5122.600	54.64	-7.74	46.90	54.00	-7.10	AVG
11	5141.300	67.33	-7.70	59.63	74.00	-14.37	peak
12	5141.300	56.36	-7.70	48.66	54.00	-5.34	AVG
13	5150.000	68.56	-7.67	60.89	74.00	-13.11	peak
14	5150.000	58.16	-7.67	50.49	54.00	-3.51	AVG
15	5240.300	115.66	-7.43	108.23	--	--	peak
16	5350.000	61.54	-7.12	54.42	74.00	-19.58	peak
17	5350.000	52.14	-7.12	45.02	54.00	-8.98	AVG
18	5387.700	63.41	-7.02	56.39	74.00	-17.61	peak
19	5387.700	52.67	-7.02	45.65	54.00	-8.35	AVG
20	5450.400	63.93	-6.85	57.08	74.00	-16.92	peak
21	5450.400	53.29	-6.85	46.44	54.00	-7.56	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5755 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5755 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		

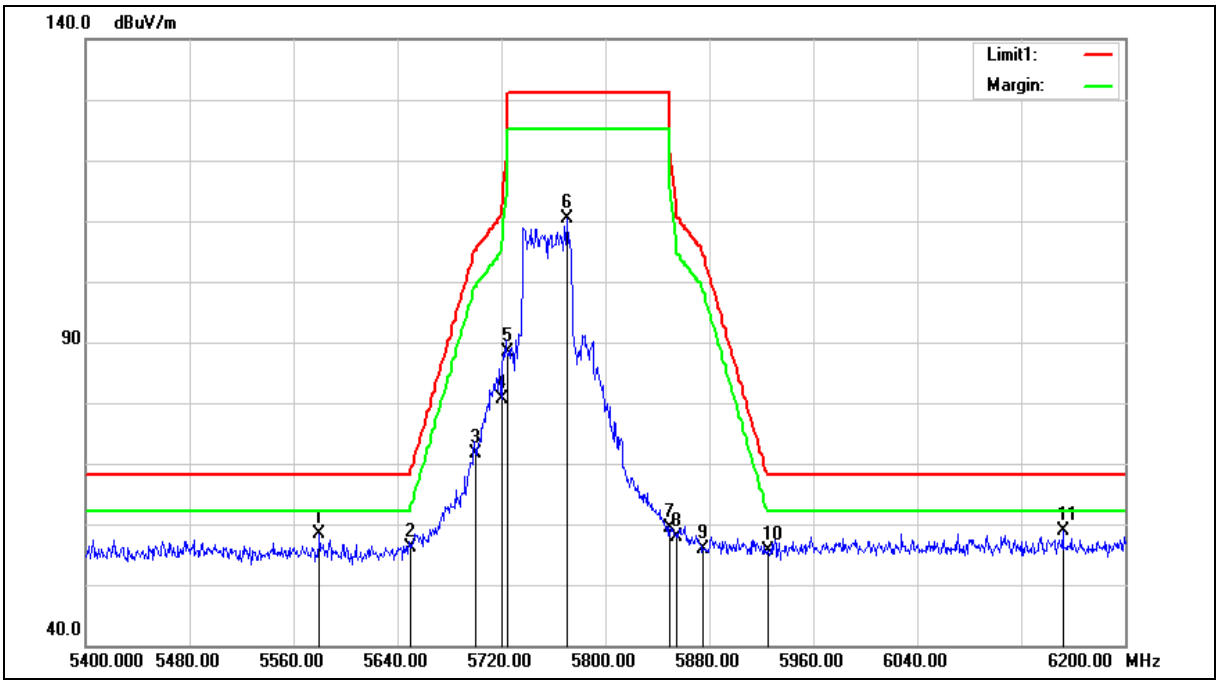
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5469.600	63.92	-6.79	57.13	68.20	-11.07	peak
2	5650.000	62.27	-6.32	55.95	68.20	-12.25	peak
3	5700.000	78.34	-6.19	72.15	105.20	-33.05	peak
4	5720.000	92.95	-6.14	86.81	110.80	-23.99	peak
5	5725.000	95.22	-6.14	89.08	122.20	-33.12	peak
6	5770.400	118.81	-6.02	112.79	--	--	peak
7	5850.000	69.33	-5.81	63.52	122.20	-58.68	peak
8	5855.000	68.26	-5.78	62.48	110.80	-48.32	peak
9	5875.000	64.92	-5.73	59.19	105.20	-46.01	peak
10	5925.000	60.25	-5.60	54.65	68.20	-13.55	peak
11	5967.200	63.18	-5.50	57.68	68.20	-10.52	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5755 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5755 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		

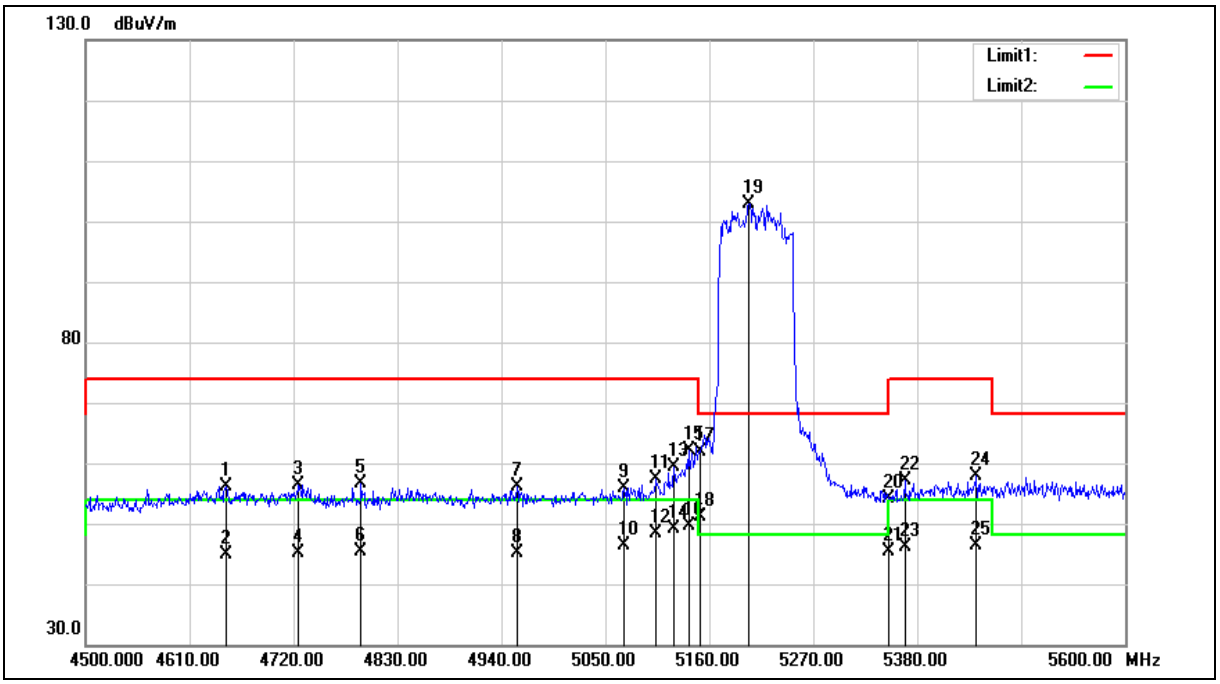
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5580.000	64.85	-6.51	58.34	68.20	-9.86	peak
2	5650.000	62.43	-6.32	56.11	68.20	-12.09	peak
3	5700.000	77.80	-6.19	71.61	105.20	-33.59	peak
4	5720.000	86.74	-6.14	80.60	110.80	-30.20	peak
5	5725.000	94.53	-6.14	88.39	122.20	-33.81	peak
6	5770.400	116.28	-6.02	110.26	--	--	peak
7	5850.000	65.08	-5.81	59.27	122.20	-62.93	peak
8	5855.000	63.60	-5.78	57.82	110.80	-52.98	peak
9	5875.000	61.55	-5.73	55.82	105.20	-49.38	peak
10	5925.000	61.19	-5.60	55.59	68.20	-12.61	peak
11	6152.000	63.68	-4.87	58.81	68.20	-9.39	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:	Band edge		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		

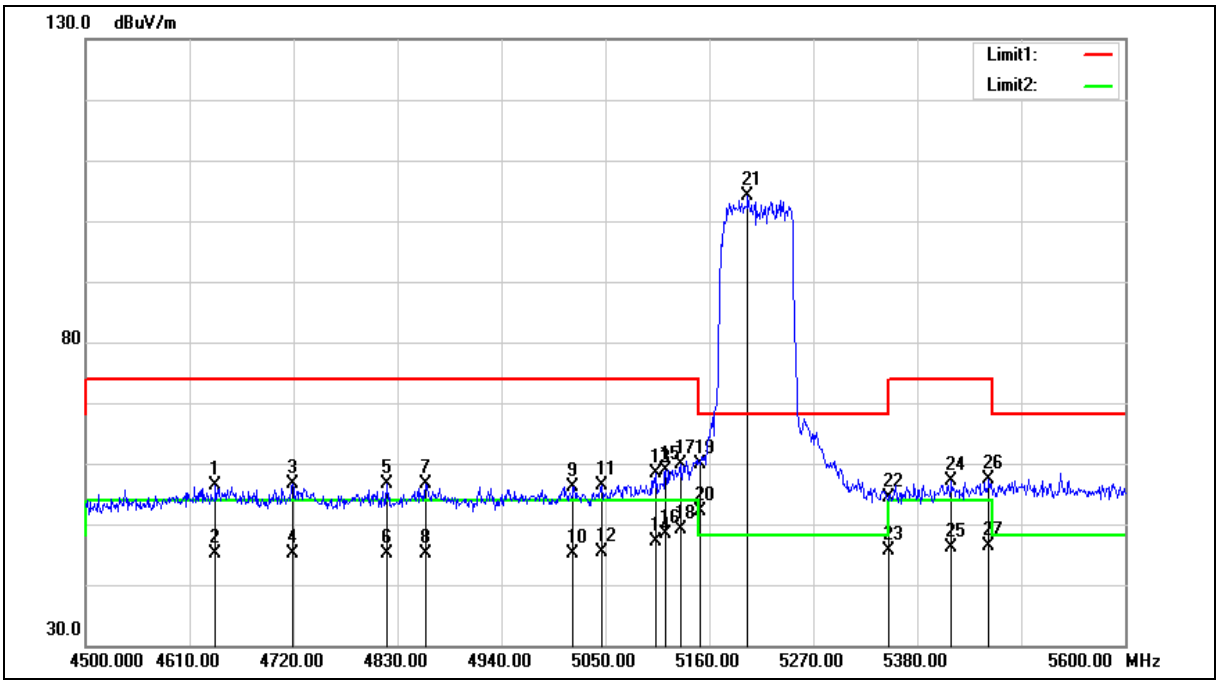
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4648.500	65.11	-8.90	56.21	74.00	-17.79	peak
2	4648.500	53.86	-8.90	44.96	54.00	-9.04	AVG
3	4725.500	65.12	-8.72	56.40	74.00	-17.60	peak
4	4725.500	53.93	-8.72	45.21	54.00	-8.79	AVG
5	4791.500	65.17	-8.56	56.61	74.00	-17.39	peak
6	4791.500	53.88	-8.56	45.32	54.00	-8.68	AVG
7	4956.500	64.34	-8.17	56.17	74.00	-17.83	peak
8	4956.500	53.34	-8.17	45.17	54.00	-8.83	AVG
9	5069.800	63.71	-7.87	55.84	74.00	-18.16	peak
10	5069.800	54.23	-7.87	46.36	54.00	-7.64	AVG
11	5103.900	65.29	-7.79	57.50	74.00	-16.50	peak
12	5103.900	56.22	-7.79	48.43	54.00	-5.57	AVG
13	5122.600	67.10	-7.74	59.36	74.00	-14.64	peak
14	5122.600	56.76	-7.74	49.02	54.00	-4.98	AVG
15	5138.000	69.73	-7.70	62.03	74.00	-11.97	peak
16	5138.000	57.40	-7.70	49.70	54.00	-4.30	AVG
17	5150.000	69.61	-7.67	61.94	74.00	-12.06	peak
18	5150.000	58.92	-7.67	51.25	54.00	-2.75	AVG
19	5201.800	110.40	-7.53	102.87	--	--	peak
20	5350.000	61.13	-7.12	54.01	74.00	-19.99	peak
21	5350.000	52.51	-7.12	45.39	54.00	-8.61	AVG
22	5366.800	64.30	-7.08	57.22	74.00	-16.78	peak
23	5366.800	53.26	-7.08	46.18	54.00	-7.82	AVG
24	5442.700	64.76	-6.88	57.88	74.00	-16.12	peak
25	5442.700	53.21	-6.88	46.33	54.00	-7.67	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		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5210 MHz		
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	4637.500	65.37	-8.92	56.45	74.00	-17.55	peak
2	4637.500	54.02	-8.92	45.10	54.00	-8.90	AVG
3	4718.900	65.45	-8.74	56.71	74.00	-17.29	peak
4	4718.900	53.82	-8.74	45.08	54.00	-8.92	AVG
5	4819.000	65.25	-8.50	56.75	74.00	-17.25	peak
6	4819.000	53.65	-8.50	45.15	54.00	-8.85	AVG
7	4859.700	64.94	-8.40	56.54	74.00	-17.46	peak
8	4859.700	53.61	-8.40	45.21	54.00	-8.79	AVG
9	5015.900	64.24	-8.03	56.21	74.00	-17.79	peak
10	5015.900	53.22	-8.03	45.19	54.00	-8.81	AVG
11	5046.700	64.40	-7.95	56.45	74.00	-17.55	peak
12	5046.700	53.27	-7.95	45.32	54.00	-8.68	AVG
13	5103.900	66.27	-7.79	58.48	74.00	-15.52	peak
14	5103.900	54.92	-7.79	47.13	54.00	-6.87	AVG
15	5113.800	66.59	-7.77	58.82	74.00	-15.18	peak
16	5113.800	56.19	-7.77	48.42	54.00	-5.58	AVG
17	5129.200	67.63	-7.73	59.90	74.00	-14.10	peak
18	5129.200	56.82	-7.73	49.09	54.00	-4.91	AVG
19	5150.000	67.55	-7.67	59.88	74.00	-14.12	peak
20	5150.000	59.81	-7.67	52.14	54.00	-1.86	AVG
21	5200.700	111.63	-7.53	104.10	--	--	peak
22	5350.000	61.54	-7.12	54.42	74.00	-19.58	peak
23	5350.000	52.65	-7.12	45.53	54.00	-8.47	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:	Band edge		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		

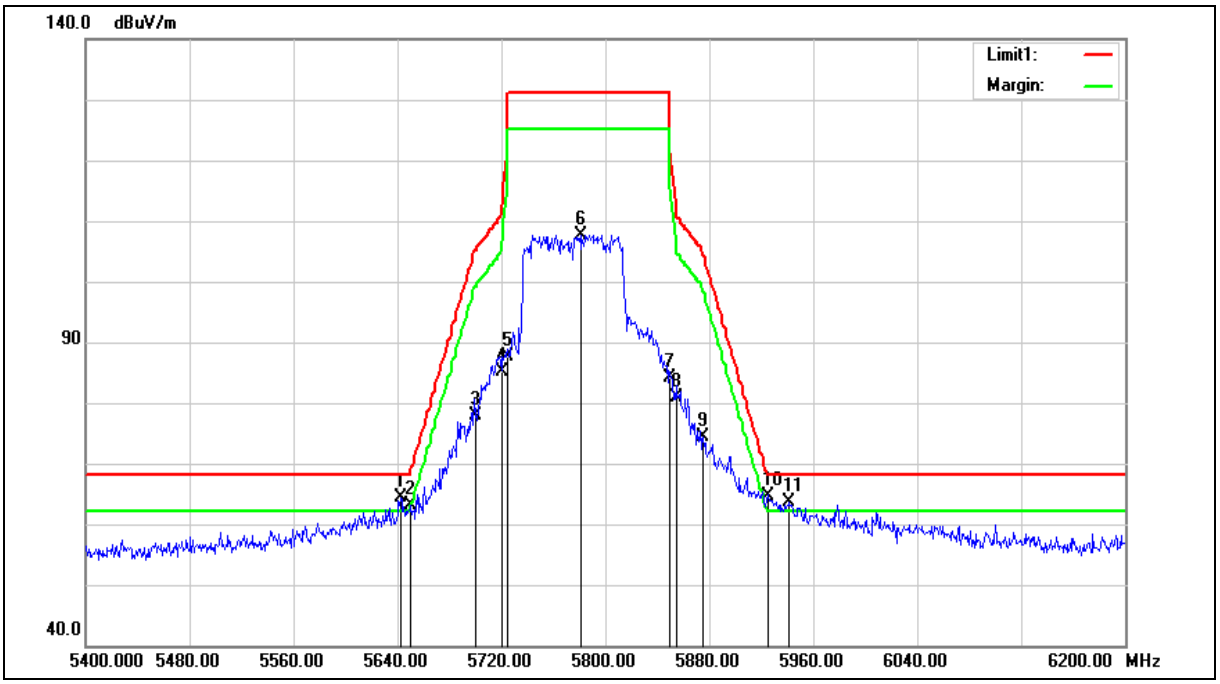
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	5416.300	64.03	-6.95	57.08	74.00	-16.92	peak
25	5416.300	53.12	-6.95	46.17	54.00	-7.83	AVG
26	5455.900	64.25	-6.84	57.41	74.00	-16.59	peak
27	5455.900	53.14	-6.84	46.30	54.00	-7.70	AVG

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:	Band edge		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		

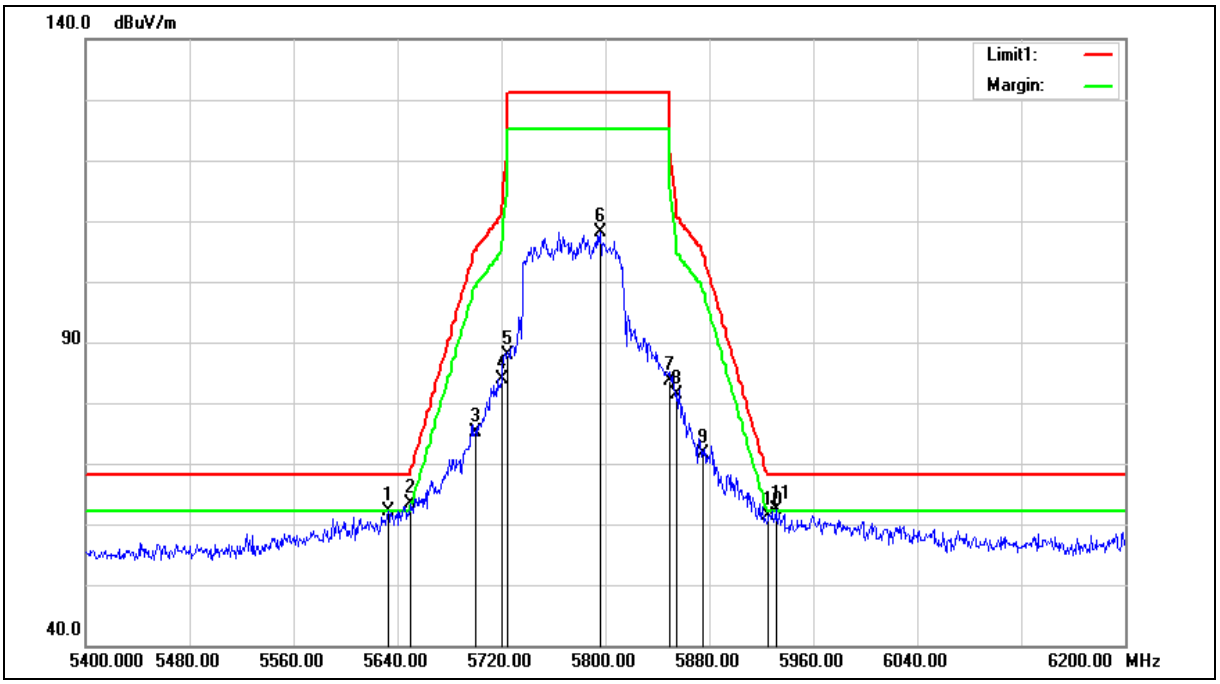
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5642.400	70.61	-6.35	64.26	68.20	-3.94	peak
2	5650.000	69.56	-6.32	63.24	68.20	-4.96	peak
3	5700.000	84.15	-6.19	77.96	105.20	-27.24	peak
4	5720.000	91.39	-6.14	85.25	110.80	-25.55	peak
5	5725.000	93.76	-6.14	87.62	122.20	-34.58	peak
6	5780.800	113.69	-5.98	107.71	--	--	peak
7	5850.000	90.04	-5.81	84.23	122.20	-37.97	peak
8	5855.000	86.63	-5.78	80.85	110.80	-29.95	peak
9	5875.000	80.00	-5.73	74.27	105.20	-30.93	peak
10	5925.000	70.21	-5.60	64.61	68.20	-3.59	peak
11	5941.600	69.28	-5.56	63.72	68.20	-4.48	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5775 MHz		
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	5632.800	68.59	-6.37	62.22	68.20	-5.98	peak
2	5650.000	69.79	-6.32	63.47	68.20	-4.73	peak
3	5700.000	81.42	-6.19	75.23	105.20	-29.97	peak
4	5720.000	89.95	-6.14	83.81	110.80	-26.99	peak
5	5725.000	93.94	-6.14	87.80	122.20	-34.40	peak
6	5796.000	114.17	-5.95	108.22	--	--	peak
7	5850.000	89.33	-5.81	83.52	122.20	-38.68	peak
8	5855.000	87.10	-5.78	81.32	110.80	-29.48	peak
9	5875.000	77.44	-5.73	71.71	105.20	-33.49	peak
10	5925.000	66.87	-5.60	61.27	68.20	-6.93	peak
11	5931.200	67.95	-5.60	62.35	68.20	-5.85	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).

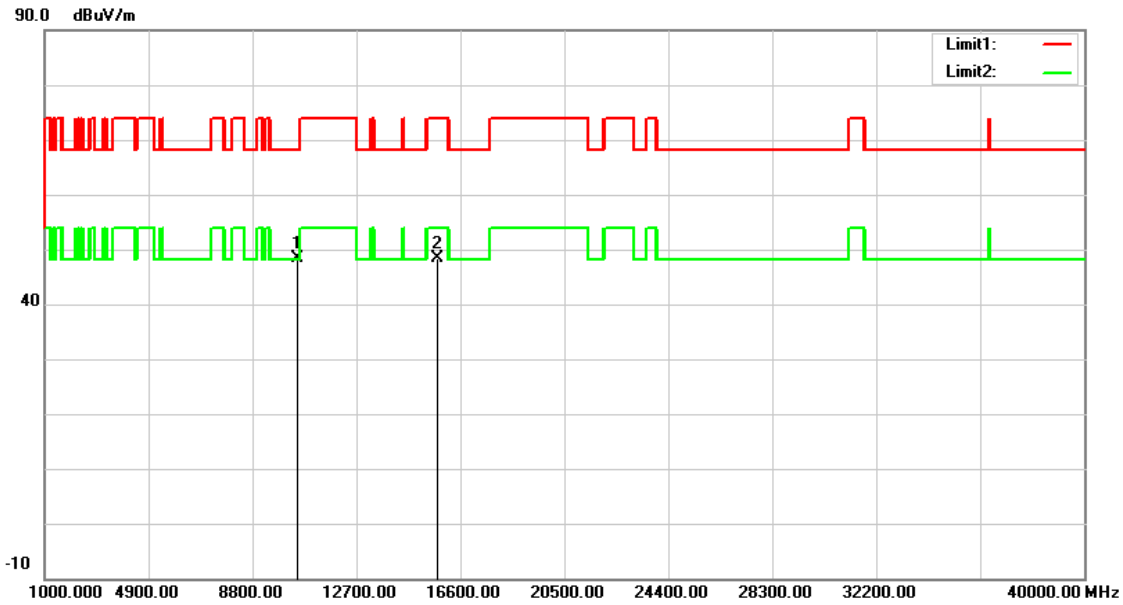
3.When the peak results are less than average limit, so not need to evaluate the average.

Beamforming on

Harmonic

Above 1 GHz

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5240 MHz		
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	43.14	5.25	48.39	68.20	-19.81	peak
2	15720.000	40.90	7.40	48.30	74.00	-25.70	peak

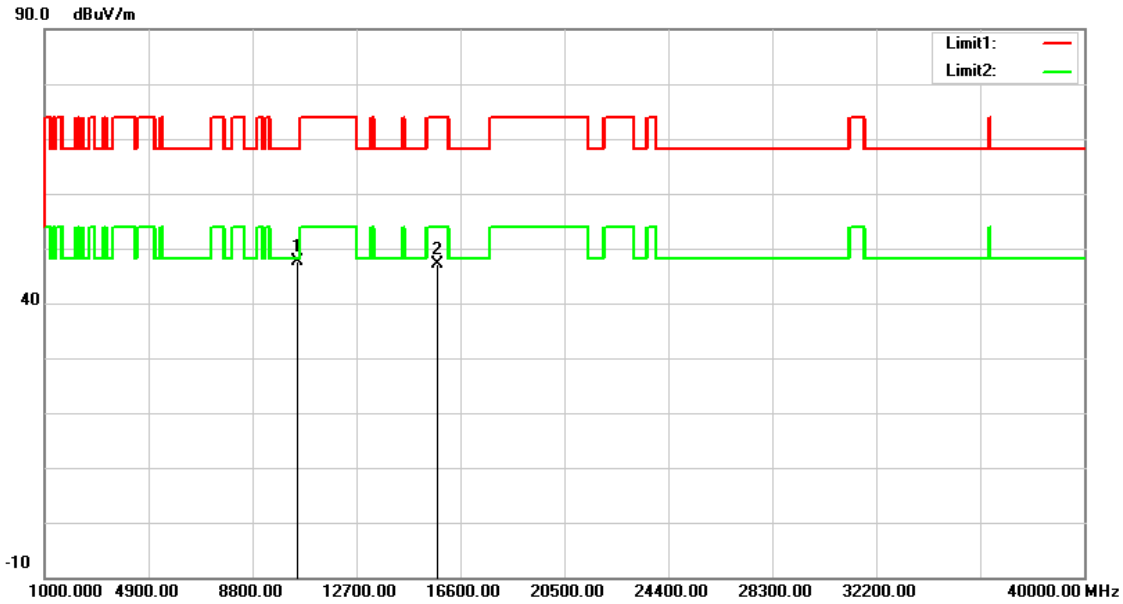
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 48.39 = 5.25 + 43.14

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5240 MHz		
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	42.42	5.25	47.67	68.20	-20.53	peak
2	15720.000	39.73	7.40	47.13	74.00	-26.87	peak

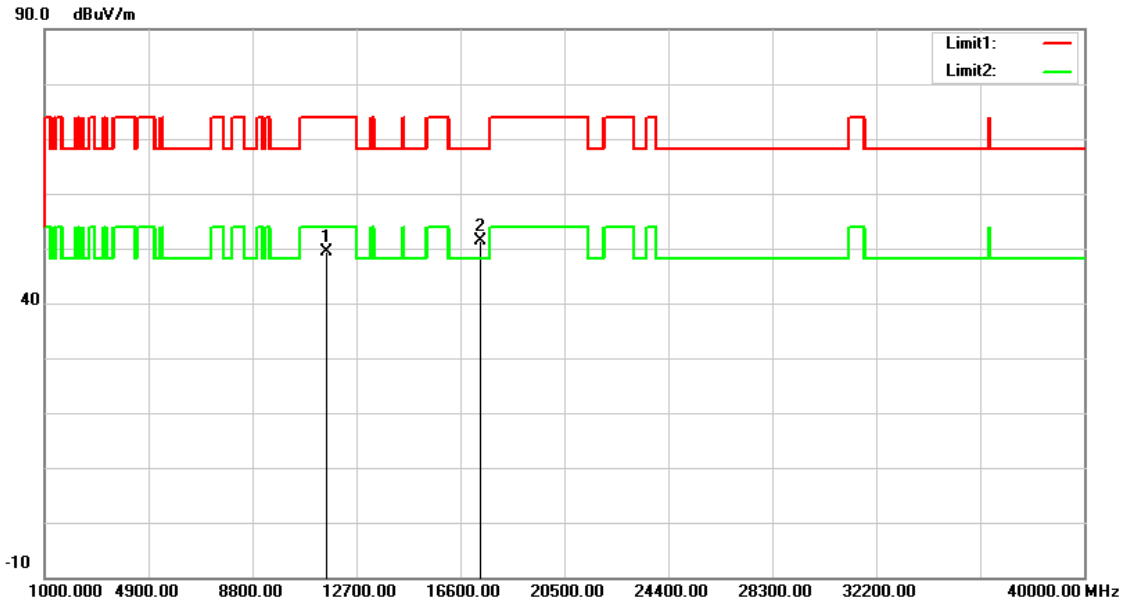
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 47.67 = 5.25 + 42.42

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-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		
Frequency:	5785 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



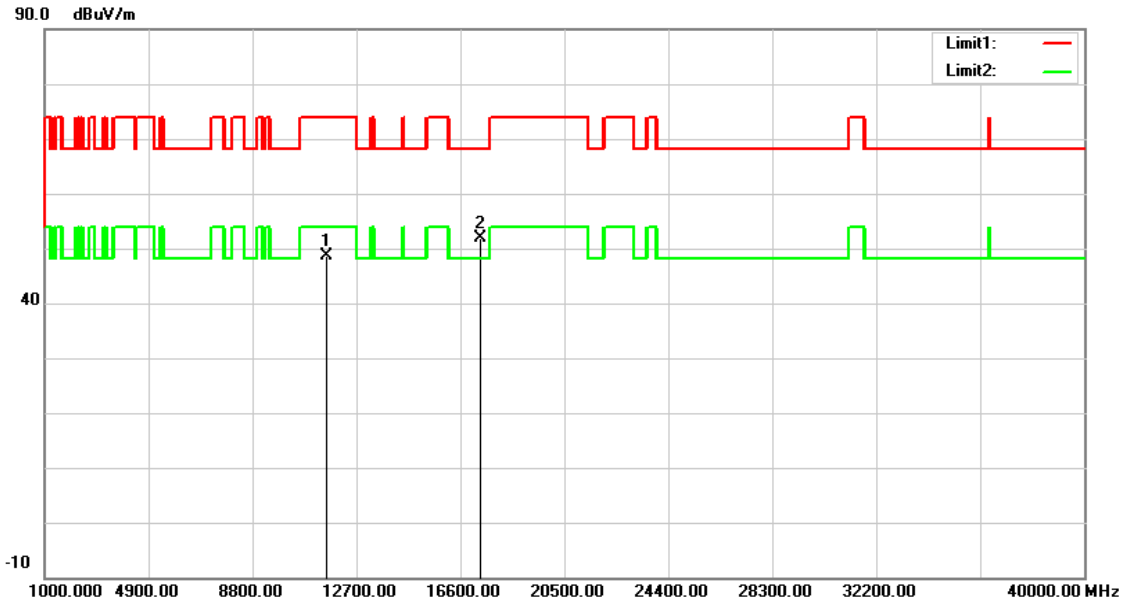
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	43.46	5.82	49.28	74.00	-24.72	peak
2	17355.000	39.86	11.46	51.32	68.20	-16.88	peak

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		
Frequency:	5785 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



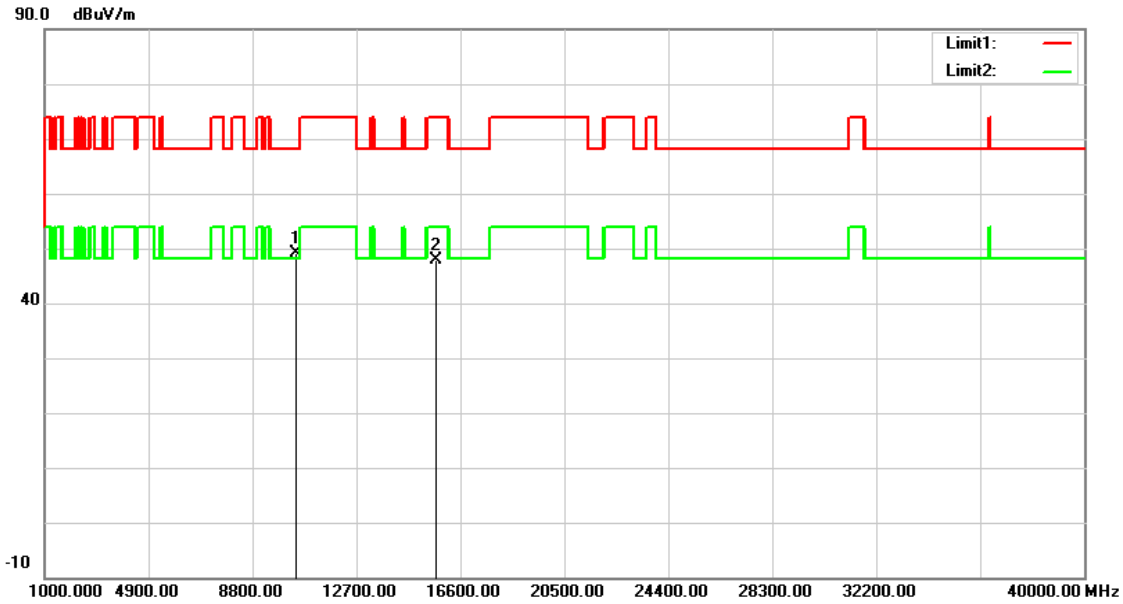
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	42.73	5.82	48.55	74.00	-25.45	peak
2	17355.000	40.39	11.46	51.85	68.20	-16.35	peak

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		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



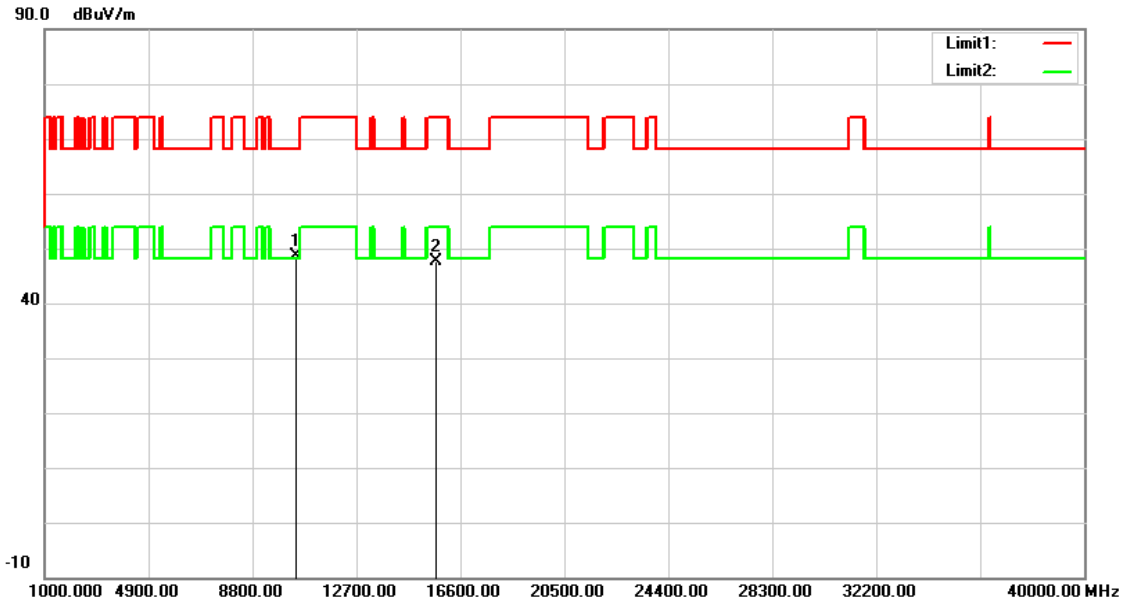
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	43.94	5.20	49.14	68.20	-19.06	peak
2	15690.000	40.46	7.45	47.91	74.00	-26.09	peak

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		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



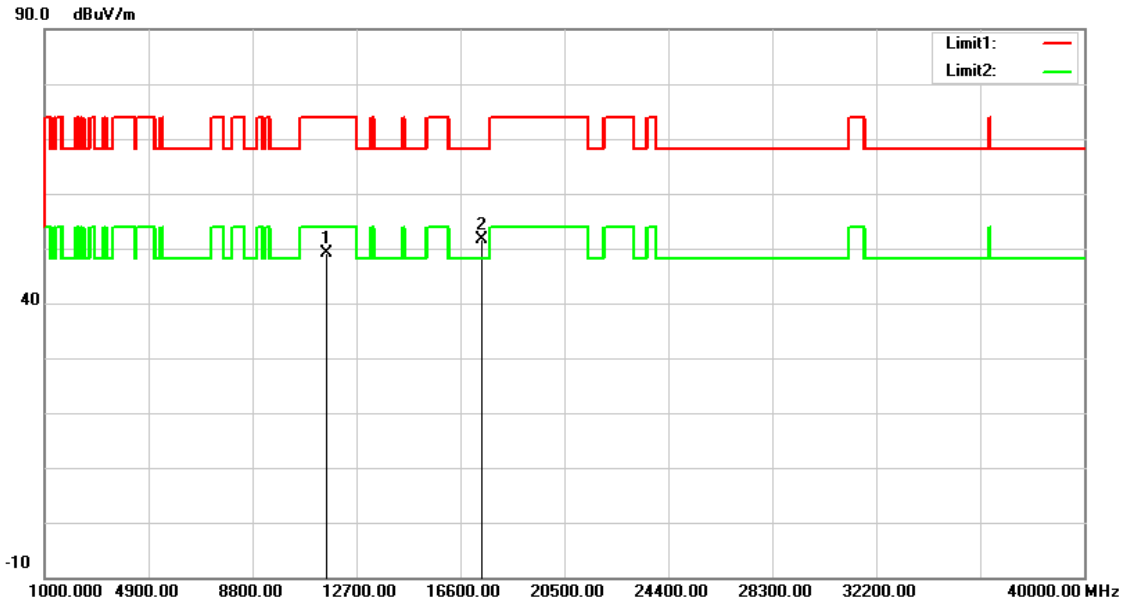
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	43.55	5.20	48.75	68.20	-19.45	peak
2	15690.000	40.06	7.45	47.51	74.00	-26.49	peak

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		
Frequency:	5795 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



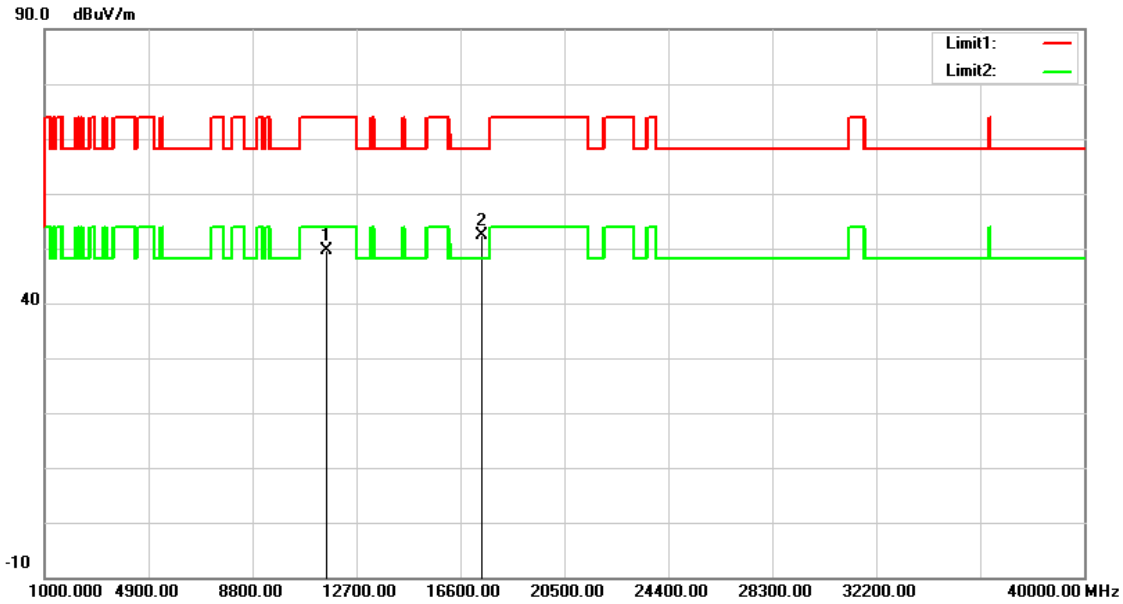
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	43.30	5.82	49.12	74.00	-24.88	peak
2	17385.000	40.21	11.54	51.75	68.20	-16.45	peak

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:	Harmonic		
Frequency:	5795 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



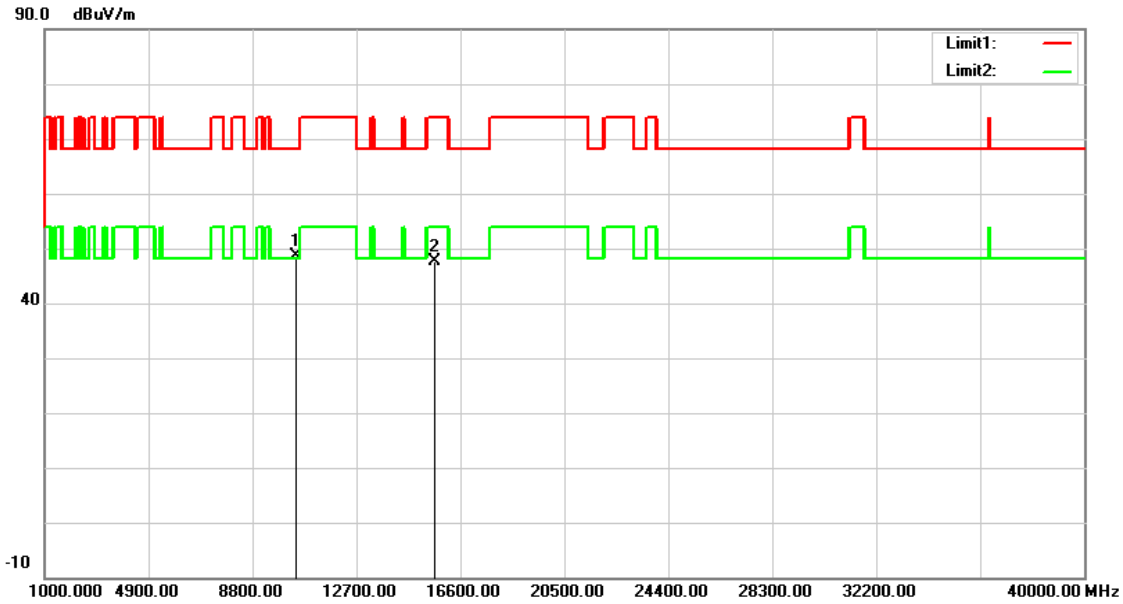
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	43.83	5.82	49.65	74.00	-24.35	peak
2	17385.000	40.78	11.54	52.32	68.20	-15.88	peak

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		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



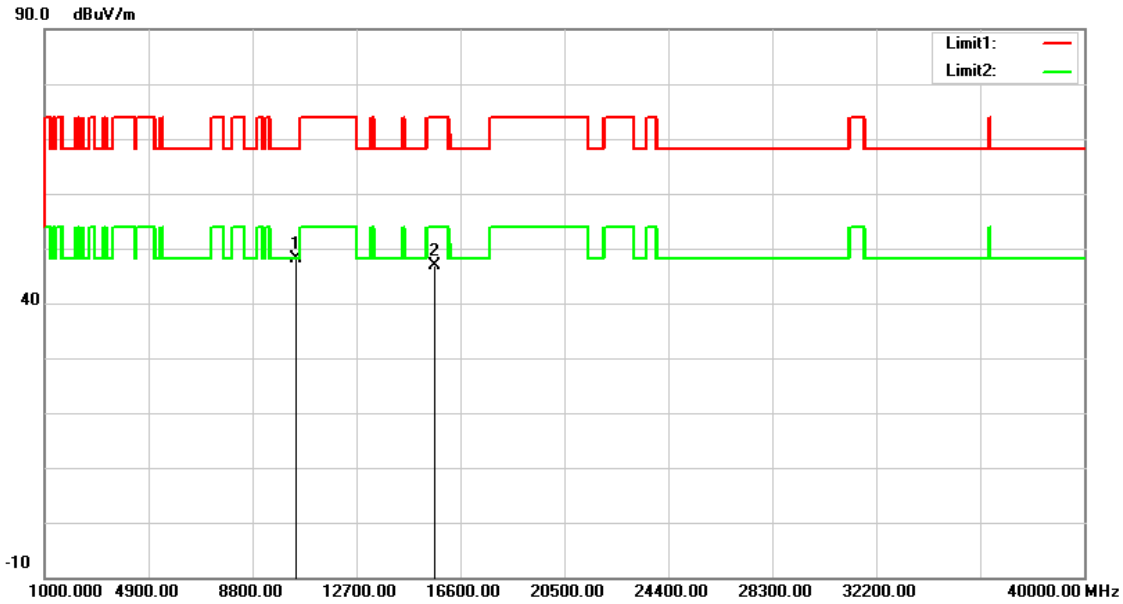
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	43.44	5.10	48.54	68.20	-19.66	peak
2	15630.000	39.96	7.55	47.51	74.00	-26.49	peak

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		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



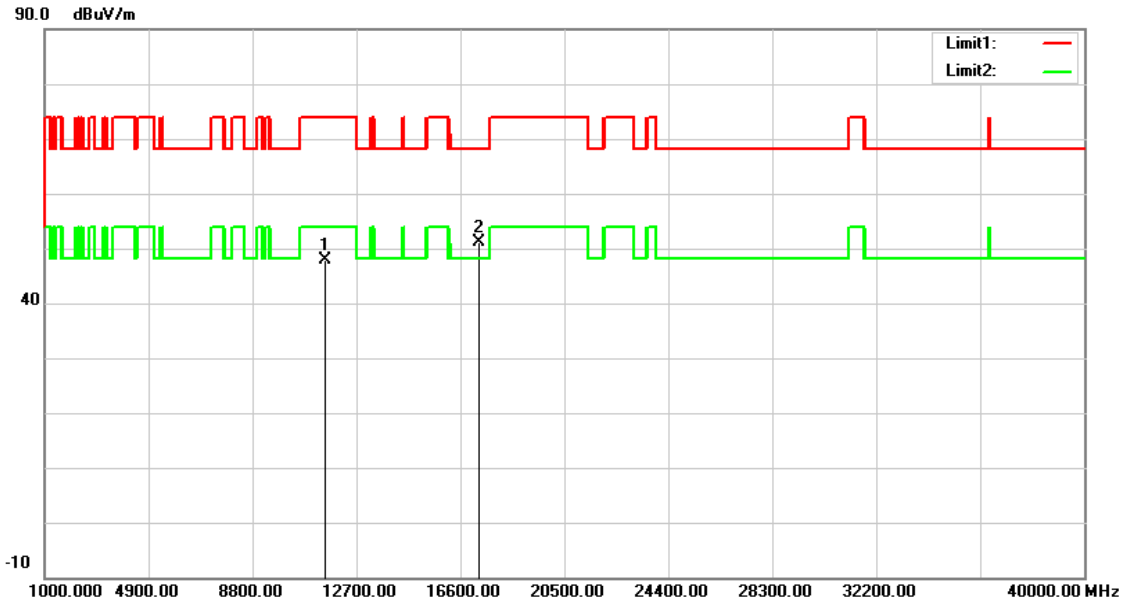
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	42.91	5.10	48.01	68.20	-20.19	peak
2	15630.000	39.28	7.55	46.83	74.00	-27.17	peak

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		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



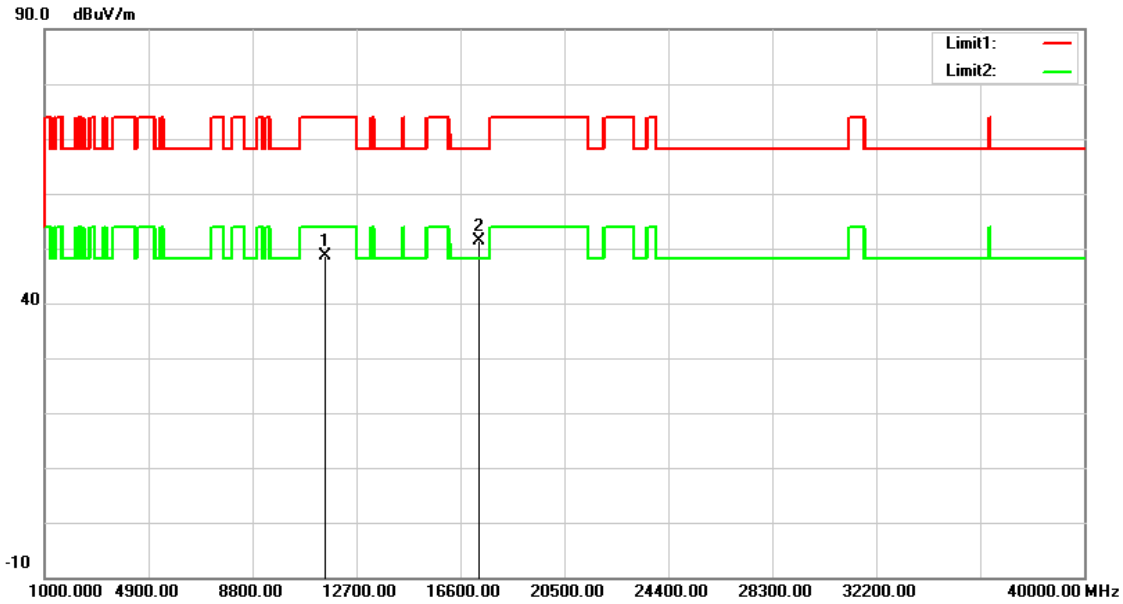
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	41.98	5.82	47.80	74.00	-26.20	peak
2	17325.000	39.86	11.37	51.23	68.20	-16.97	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5775 MHz		
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	42.88	5.82	48.70	74.00	-25.30	peak
2	17325.000	39.95	11.37	51.32	68.20	-16.88	peak

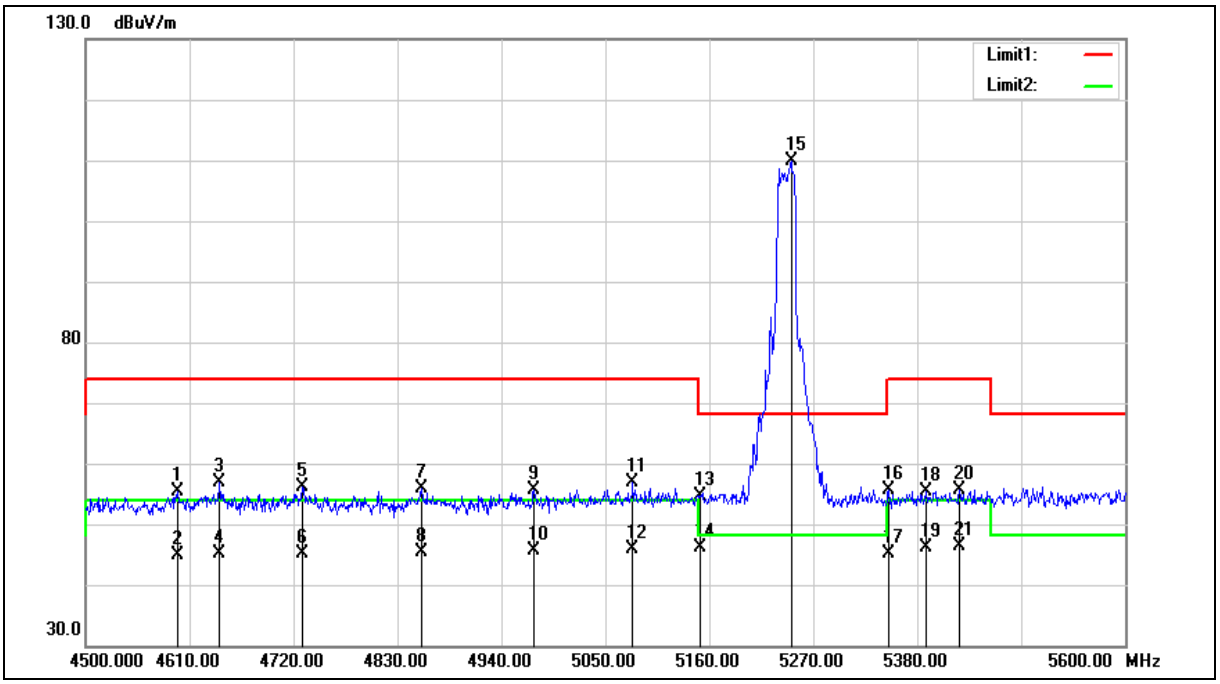
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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.

Band Edge

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

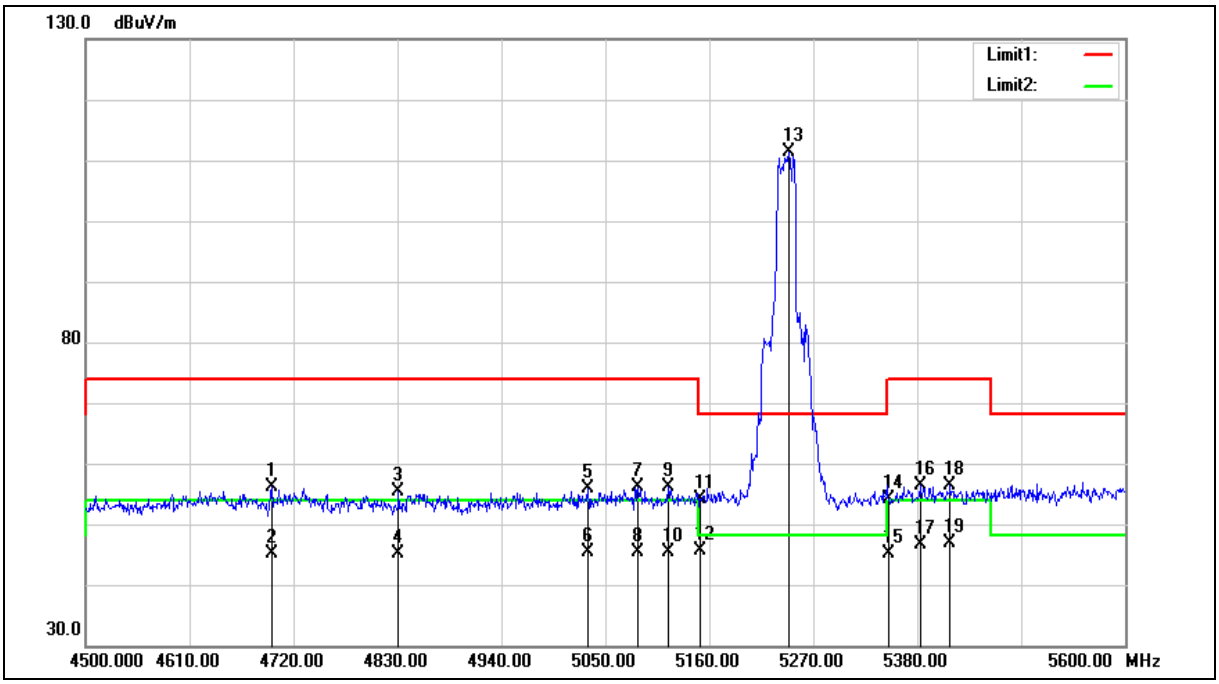
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4597.998	64.48	-9.01	55.47	74.00	-18.53	peak
2	4597.998	53.96	-9.01	44.95	54.00	-9.05	AVG
3	4642.042	65.67	-8.91	56.76	74.00	-17.24	peak
4	4642.042	53.93	-8.91	45.02	54.00	-8.98	AVG
5	4730.130	64.79	-8.71	56.08	74.00	-17.92	peak
6	4730.130	53.83	-8.71	45.12	54.00	-8.88	AVG
7	4855.656	64.25	-8.41	55.84	74.00	-18.16	peak
8	4855.656	53.68	-8.41	45.27	54.00	-8.73	AVG
9	4974.574	63.81	-8.13	55.68	74.00	-18.32	peak
10	4974.574	53.73	-8.13	45.60	54.00	-8.40	AVG
11	5079.179	64.74	-7.86	56.88	74.00	-17.12	peak
12	5079.179	53.68	-7.86	45.82	54.00	-8.18	AVG
13	5150.000	62.38	-7.67	54.71	74.00	-19.29	peak
14	5150.000	53.70	-7.67	46.03	54.00	-7.97	AVG
15	5246.547	117.17	-7.41	109.76	--	--	peak
16	5350.000	62.78	-7.12	55.66	74.00	-18.34	peak
17	5350.000	52.22	-7.12	45.10	54.00	-8.90	AVG
18	5389.690	62.51	-7.02	55.49	74.00	-18.51	peak
19	5389.690	53.24	-7.02	46.22	54.00	-7.78	AVG
20	5424.925	62.65	-6.93	55.72	74.00	-18.28	peak
21	5424.925	53.41	-6.93	46.48	54.00	-7.52	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5240 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		

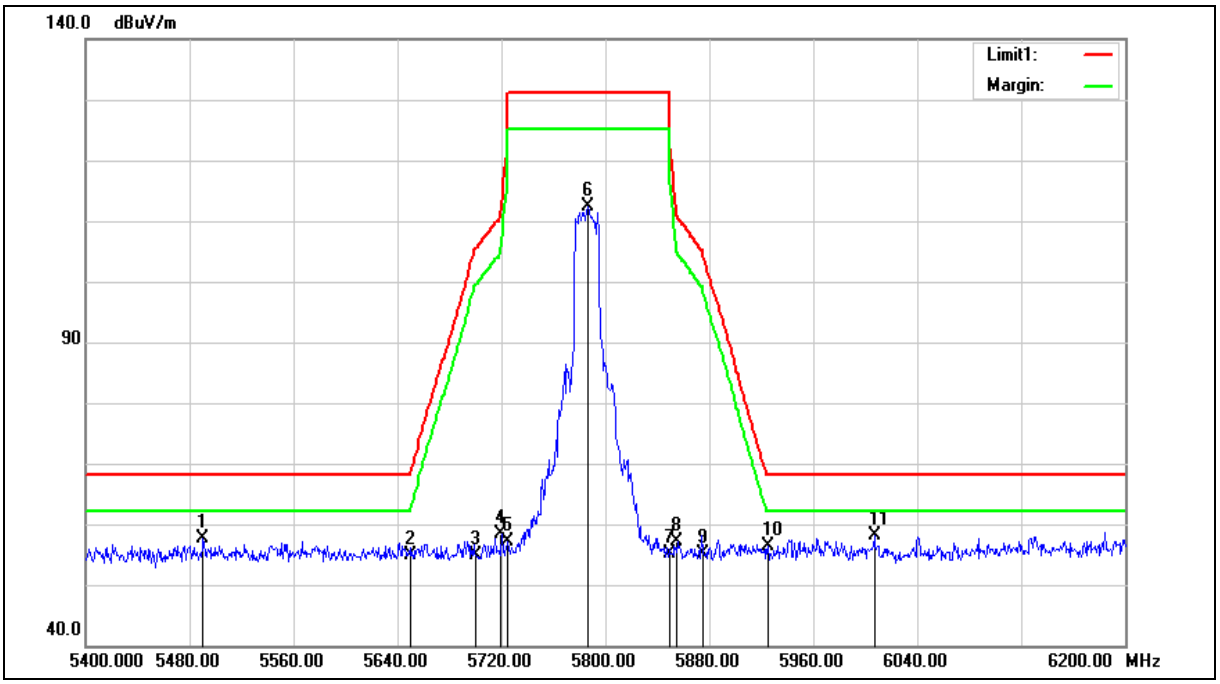
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4697.097	64.87	-8.78	56.09	74.00	-17.91	peak
2	4697.097	53.88	-8.78	45.10	54.00	-8.90	AVG
3	4831.431	63.97	-8.47	55.50	74.00	-18.50	peak
4	4831.431	53.69	-8.47	45.22	54.00	-8.78	AVG
5	5031.832	63.85	-7.98	55.87	74.00	-18.13	peak
6	5031.832	53.35	-7.98	45.37	54.00	-8.63	AVG
7	5084.685	64.02	-7.84	56.18	74.00	-17.82	peak
8	5084.685	53.26	-7.84	45.42	54.00	-8.58	AVG
9	5116.617	63.88	-7.76	56.12	74.00	-17.88	peak
10	5116.617	53.20	-7.76	45.44	54.00	-8.56	AVG
11	5150.000	61.78	-7.67	54.11	74.00	-19.89	peak
12	5150.000	53.29	-7.67	45.62	54.00	-8.38	AVG
13	5244.344	118.76	-7.41	111.35	--	--	peak
14	5350.000	61.23	-7.12	54.11	74.00	-19.89	peak
15	5350.000	52.14	-7.12	45.02	54.00	-8.98	AVG
16	5383.083	63.35	-7.03	56.32	74.00	-17.68	peak
17	5383.083	53.61	-7.03	46.58	54.00	-7.42	AVG
18	5415.015	63.24	-6.95	56.29	74.00	-17.71	peak
19	5415.015	53.74	-6.95	46.79	54.00	-7.21	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5785 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5785 MHz		
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

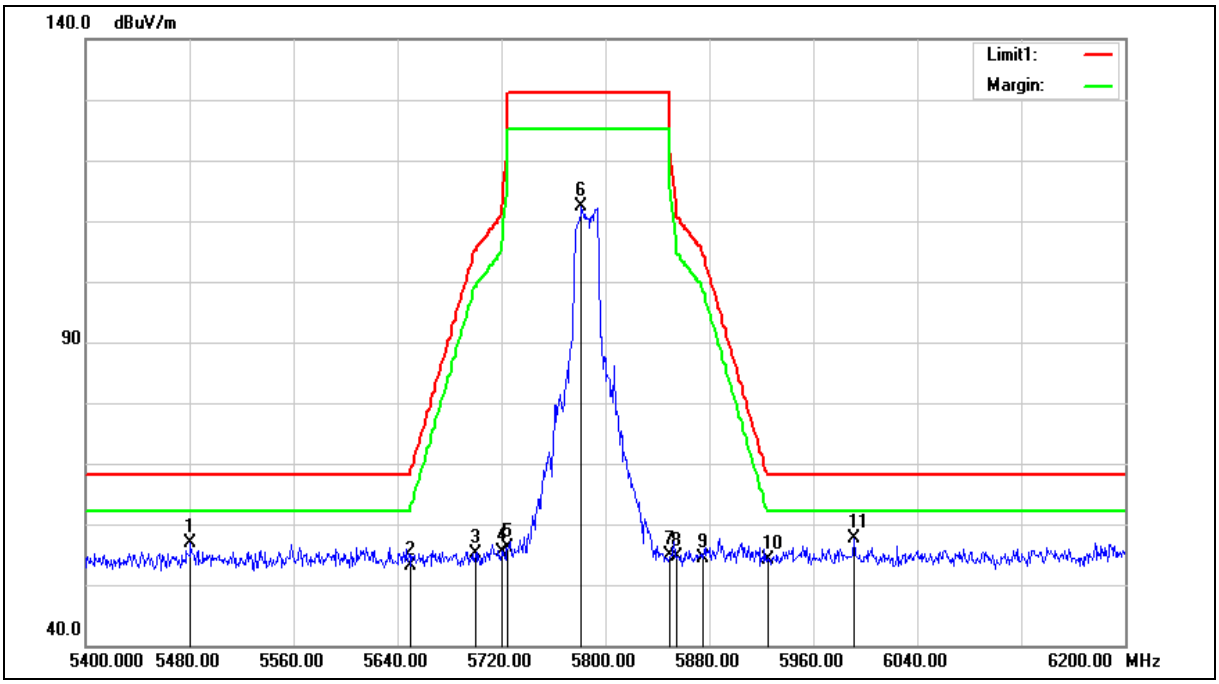
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5490.490	64.31	-6.75	57.56	68.20	-10.64	peak
2	5650.000	61.27	-6.32	54.95	68.20	-13.25	peak
3	5700.000	61.15	-6.19	54.96	105.20	-50.24	peak
4	5720.000	64.63	-6.14	58.49	110.80	-52.31	peak
5	5725.000	63.22	-6.14	57.08	122.20	-65.12	peak
6	5786.787	118.31	-5.97	112.34	--	--	peak
7	5850.000	61.03	-5.81	55.22	122.20	-66.98	peak
8	5855.000	62.84	-5.78	57.06	110.80	-53.74	peak
9	5875.000	60.85	-5.73	55.12	105.20	-50.08	peak
10	5925.000	62.04	-5.60	56.44	68.20	-11.76	peak
11	6007.007	63.58	-5.39	58.19	68.20	-10.01	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		
Frequency:	5785 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5785 MHz		
Mode:	Mode 5		
Ant.Polar.:	Vertical		

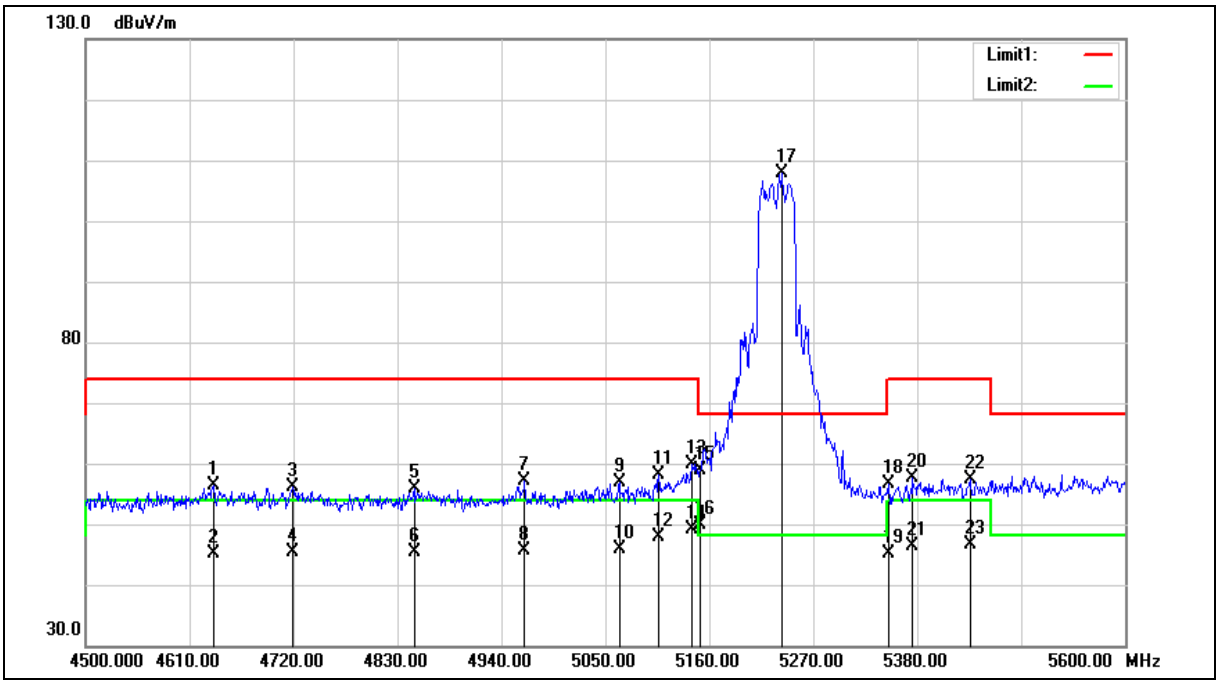
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5480.800	61.24	-4.46	56.78	68.20	-11.42	peak
2	5650.000	57.25	-4.02	53.23	68.20	-14.97	peak
3	5700.000	58.91	-3.89	55.02	105.20	-50.18	peak
4	5720.000	59.10	-3.84	55.26	110.80	-55.54	peak
5	5725.000	59.92	-3.83	56.09	122.20	-66.11	peak
6	5781.600	115.95	-3.68	112.27	--	--	peak
7	5850.000	58.28	-3.51	54.77	122.20	-67.43	peak
8	5855.000	58.12	-3.48	54.64	110.80	-56.16	peak
9	5875.000	57.82	-3.44	54.38	105.20	-50.82	peak
10	5925.000	57.39	-3.30	54.09	68.20	-14.11	peak
11	5991.200	60.65	-3.13	57.52	68.20	-10.68	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:	Band edge		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		

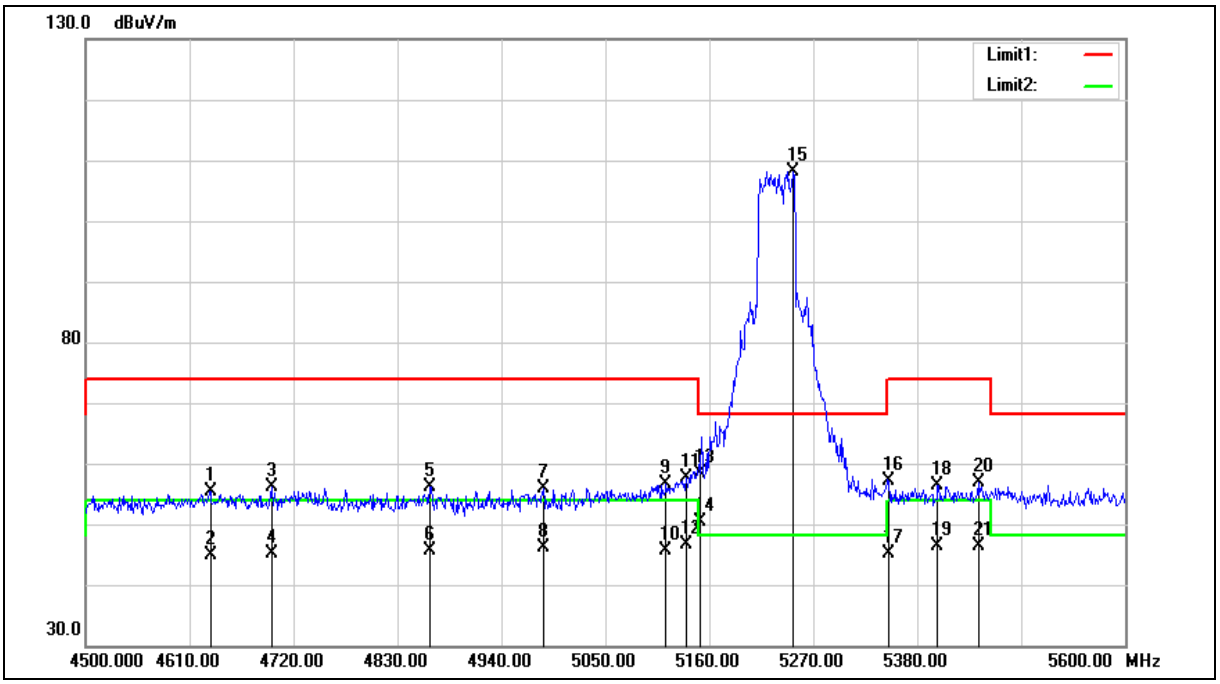
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4635.435	65.32	-8.93	56.39	74.00	-17.61	peak
2	4635.435	54.03	-8.93	45.10	54.00	-8.90	AVG
3	4719.119	64.84	-8.74	56.10	74.00	-17.90	peak
4	4719.119	54.10	-8.74	45.36	54.00	-8.64	AVG
5	4847.948	64.29	-8.43	55.86	74.00	-18.14	peak
6	4847.948	53.85	-8.43	45.42	54.00	-8.58	AVG
7	4964.665	65.36	-8.15	57.21	74.00	-16.79	peak
8	4964.665	53.78	-8.15	45.63	54.00	-8.37	AVG
9	5064.865	64.84	-7.89	56.95	74.00	-17.05	peak
10	5064.865	53.85	-7.89	45.96	54.00	-8.04	AVG
11	5106.707	65.83	-7.78	58.05	74.00	-15.95	peak
12	5106.707	55.60	-7.78	47.82	54.00	-6.18	AVG
13	5141.942	67.51	-7.69	59.82	74.00	-14.18	peak
14	5141.942	56.72	-7.69	49.03	54.00	-4.97	AVG
15	5150.000	66.55	-7.67	58.88	74.00	-15.12	peak
16	5150.000	57.56	-7.67	49.89	54.00	-4.11	AVG
17	5236.636	115.23	-7.43	107.80	--	--	peak
18	5350.000	63.85	-7.12	56.73	74.00	-17.27	peak
19	5350.000	52.23	-7.12	45.11	54.00	-8.89	AVG
20	5375.375	64.56	-7.05	57.51	74.00	-16.49	peak
21	5375.375	53.45	-7.05	46.40	54.00	-7.60	AVG
22	5435.936	64.18	-6.90	57.28	74.00	-16.72	peak
23	5435.936	53.48	-6.90	46.58	54.00	-7.42	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5230 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		

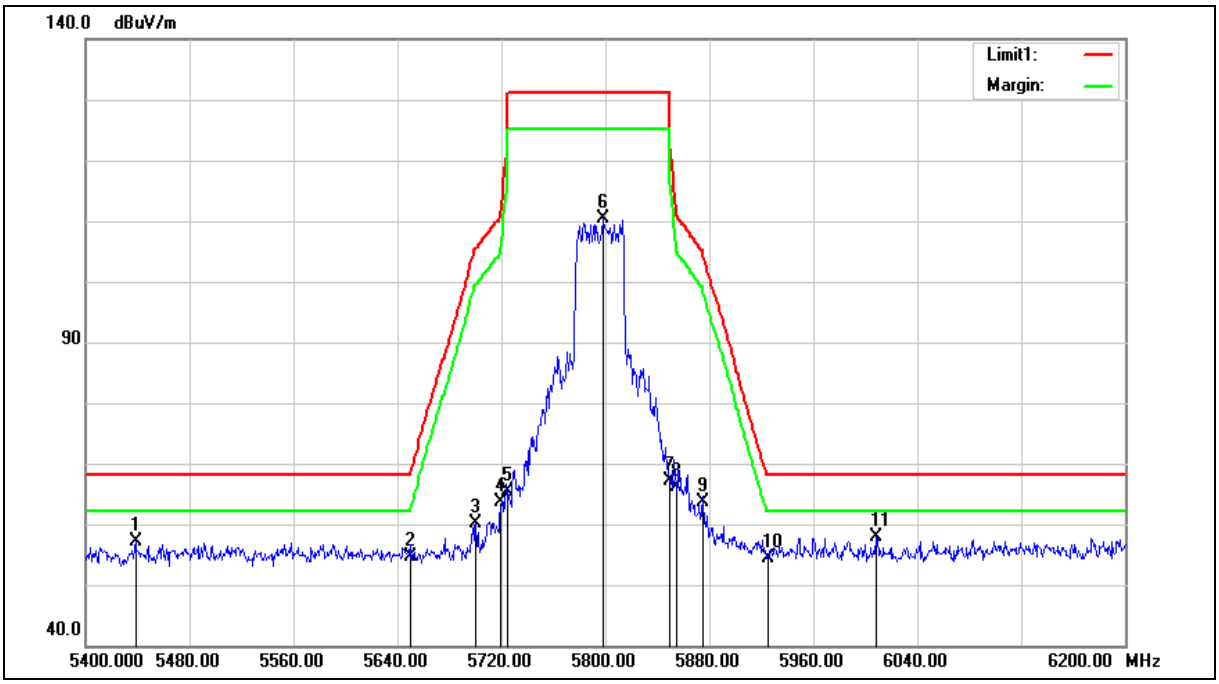
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4632.132	64.37	-8.94	55.43	74.00	-18.57	peak
2	4632.132	53.94	-8.94	45.00	54.00	-9.00	AVG
3	4697.097	64.91	-8.78	56.13	74.00	-17.87	peak
4	4697.097	54.00	-8.78	45.22	54.00	-8.78	AVG
5	4864.465	64.47	-8.39	56.08	74.00	-17.92	peak
6	4864.465	53.92	-8.39	45.53	54.00	-8.47	AVG
7	4984.484	64.05	-8.10	55.95	74.00	-18.05	peak
8	4984.484	54.20	-8.10	46.10	54.00	-7.90	AVG
9	5114.414	64.37	-7.76	56.61	74.00	-17.39	peak
10	5114.414	53.49	-7.76	45.73	54.00	-8.27	AVG
11	5135.335	65.33	-7.71	57.62	74.00	-16.38	peak
12	5135.335	54.33	-7.71	46.62	54.00	-7.38	AVG
13	5150.000	66.02	-7.67	58.35	74.00	-15.65	peak
14	5150.000	57.93	-7.67	50.26	54.00	-3.74	AVG
15	5248.749	115.65	-7.40	108.25	--	--	peak
16	5350.000	64.23	-7.12	57.11	74.00	-16.89	peak
17	5350.000	52.17	-7.12	45.05	54.00	-8.95	AVG
18	5401.802	63.40	-6.99	56.41	74.00	-17.59	peak
19	5401.802	53.25	-6.99	46.26	54.00	-7.74	AVG
20	5444.745	63.78	-6.87	56.91	74.00	-17.09	peak
21	5444.745	53.28	-6.87	46.41	54.00	-7.59	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5795 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5795 MHz		
Mode:	Mode 6		
Ant.Polar.:	Horizontal		

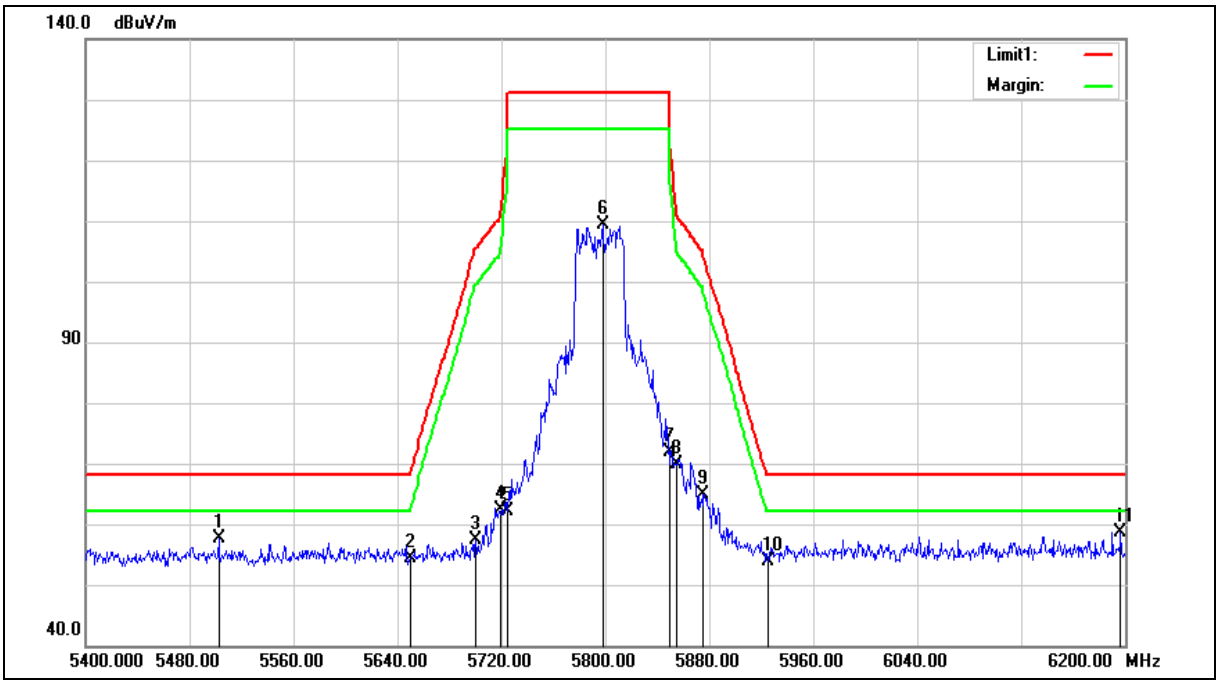
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5438.438	64.03	-6.89	57.14	68.20	-11.06	peak
2	5650.000	60.84	-6.32	54.52	68.20	-13.68	peak
3	5700.000	66.42	-6.19	60.23	105.20	-44.97	peak
4	5720.000	69.67	-6.14	63.53	110.80	-47.27	peak
5	5725.000	71.55	-6.14	65.41	122.20	-56.79	peak
6	5798.799	116.22	-5.94	110.28	--	--	peak
7	5850.000	72.89	-5.81	67.08	122.20	-55.12	peak
8	5855.000	71.81	-5.78	66.03	110.80	-44.77	peak
9	5875.000	69.45	-5.73	63.72	105.20	-41.48	peak
10	5925.000	60.07	-5.60	54.47	68.20	-13.73	peak
11	6008.609	63.33	-5.38	57.95	68.20	-10.25	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5795 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5795 MHz		
Mode:	Mode 6		
Ant.Polar.:	Vertical		

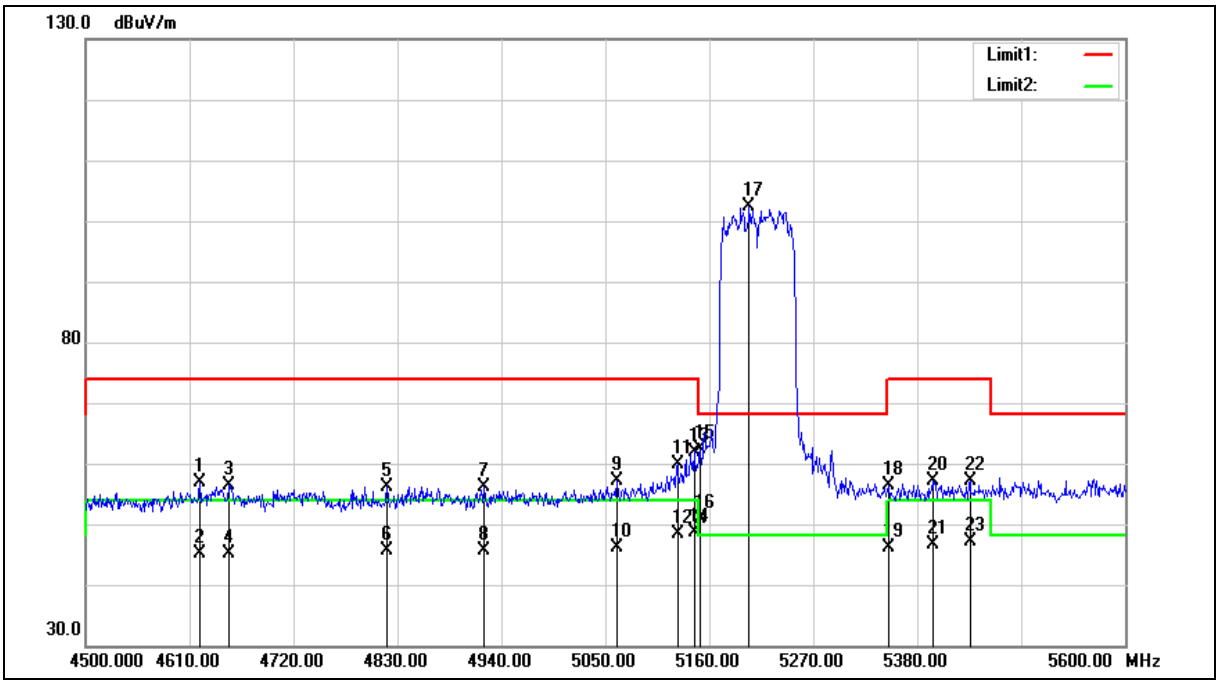
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5502.502	64.32	-6.72	57.60	68.20	-10.60	peak
2	5650.000	60.60	-6.32	54.28	68.20	-13.92	peak
3	5700.000	63.48	-6.19	57.29	105.20	-47.91	peak
4	5720.000	68.61	-6.14	62.47	110.80	-48.33	peak
5	5725.000	68.36	-6.14	62.22	122.20	-59.98	peak
6	5797.998	115.29	-5.94	109.35	--	--	peak
7	5850.000	77.81	-5.81	72.00	122.20	-50.20	peak
8	5855.000	75.73	-5.78	69.95	110.80	-40.85	peak
9	5875.000	70.55	-5.73	64.82	105.20	-40.38	peak
10	5925.000	59.59	-5.60	53.99	68.20	-14.21	peak
11	6196.797	63.27	-4.72	58.55	68.20	-9.65	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		

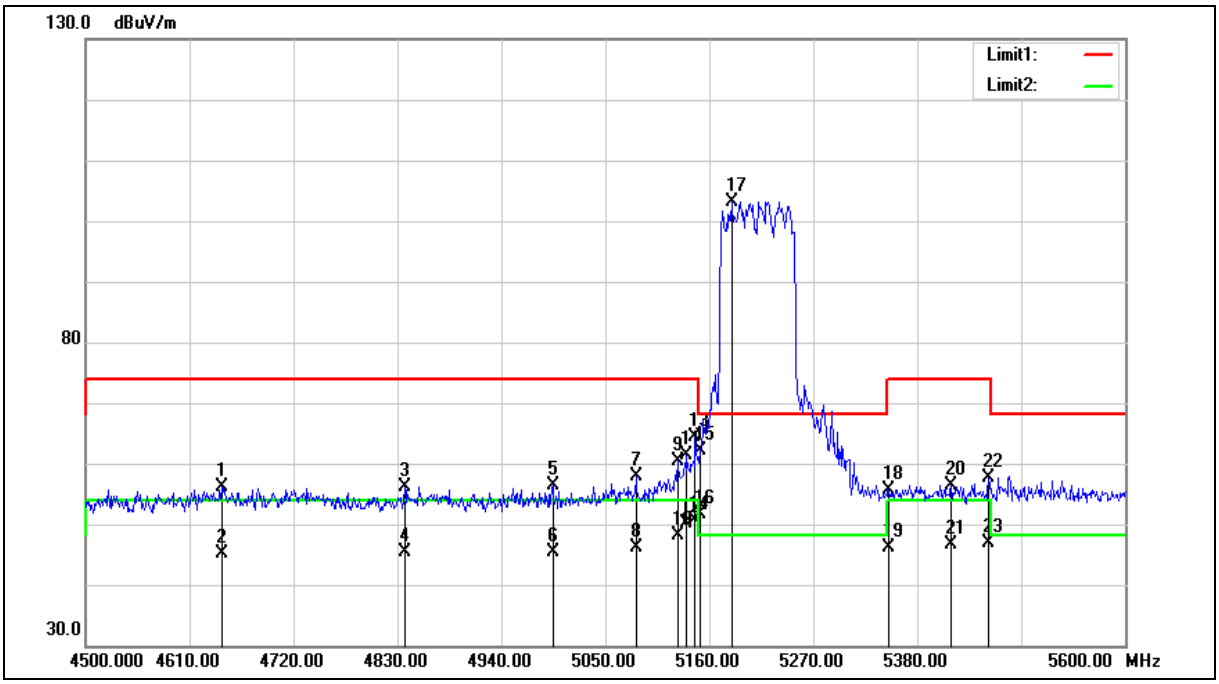
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4621.121	65.75	-8.97	56.78	74.00	-17.22	peak
2	4621.121	54.12	-8.97	45.15	54.00	-8.85	AVG
3	4651.952	65.33	-8.89	56.44	74.00	-17.56	peak
4	4651.952	54.13	-8.89	45.24	54.00	-8.76	AVG
5	4819.319	64.73	-8.50	56.23	74.00	-17.77	peak
6	4819.319	54.06	-8.50	45.56	54.00	-8.44	AVG
7	4921.722	64.31	-8.25	56.06	74.00	-17.94	peak
8	4921.722	53.85	-8.25	45.60	54.00	-8.40	AVG
9	5062.663	64.91	-7.90	57.01	74.00	-16.99	peak
10	5062.663	54.11	-7.90	46.21	54.00	-7.79	AVG
11	5126.526	67.62	-7.73	59.89	74.00	-14.11	peak
12	5126.526	56.01	-7.73	48.28	54.00	-5.72	AVG
13	5144.144	69.68	-7.68	62.00	74.00	-12.00	peak
14	5144.144	56.38	-7.68	48.70	54.00	-5.30	AVG
15	5150.000	70.08	-7.67	62.41	74.00	-11.59	peak
16	5150.000	58.48	-7.67	50.81	54.00	-3.19	AVG
17	5202.502	109.82	-7.53	102.29	--	--	peak
18	5350.000	63.61	-7.12	56.49	74.00	-17.51	peak
19	5350.000	53.34	-7.12	46.22	54.00	-7.78	AVG
20	5396.296	64.15	-7.00	57.15	74.00	-16.85	peak
21	5396.296	53.65	-7.00	46.65	54.00	-7.35	AVG
22	5435.936	64.02	-6.90	57.12	74.00	-16.88	peak
23	5435.936	53.92	-6.90	47.02	54.00	-6.98	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5210 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		

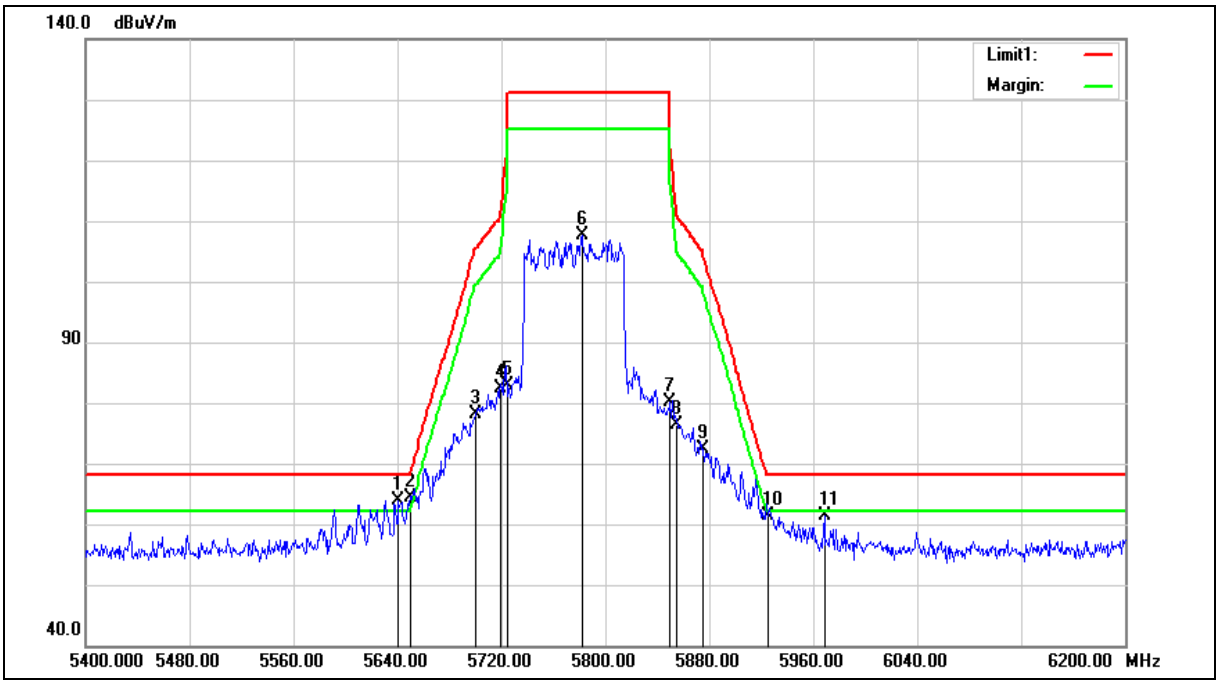
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4644.244	65.00	-8.91	56.09	74.00	-17.91	peak
2	4644.244	54.11	-8.91	45.20	54.00	-8.80	AVG
3	4838.038	64.52	-8.45	56.07	74.00	-17.93	peak
4	4838.038	53.84	-8.45	45.39	54.00	-8.61	AVG
5	4994.394	64.34	-8.08	56.26	74.00	-17.74	peak
6	4994.394	53.54	-8.08	45.46	54.00	-8.54	AVG
7	5082.483	65.72	-7.84	57.88	74.00	-16.12	peak
8	5082.483	54.02	-7.84	46.18	54.00	-7.82	AVG
9	5126.526	68.23	-7.73	60.50	74.00	-13.50	peak
10	5126.526	55.82	-7.73	48.09	54.00	-5.91	AVG
11	5136.436	69.08	-7.70	61.38	74.00	-12.62	peak
12	5136.436	57.75	-7.70	50.05	54.00	-3.95	AVG
13	5145.245	71.95	-7.68	64.27	74.00	-9.73	peak
14	5145.245	58.38	-7.68	50.70	54.00	-3.30	AVG
15	5150.000	69.79	-7.67	62.12	74.00	-11.88	peak
16	5150.000	59.36	-7.67	51.69	54.00	-2.31	AVG
17	5183.784	110.82	-7.57	103.25	--	--	peak
18	5350.000	62.70	-7.12	55.58	74.00	-18.42	peak
19	5350.000	53.17	-7.12	46.05	54.00	-7.95	AVG
20	5416.116	63.40	-6.95	56.45	74.00	-17.55	peak
21	5416.116	53.53	-6.95	46.58	54.00	-7.42	AVG
22	5455.756	64.52	-6.84	57.68	74.00	-16.32	peak
23	5455.756	53.75	-6.84	46.91	54.00	-7.09	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Horizontal		

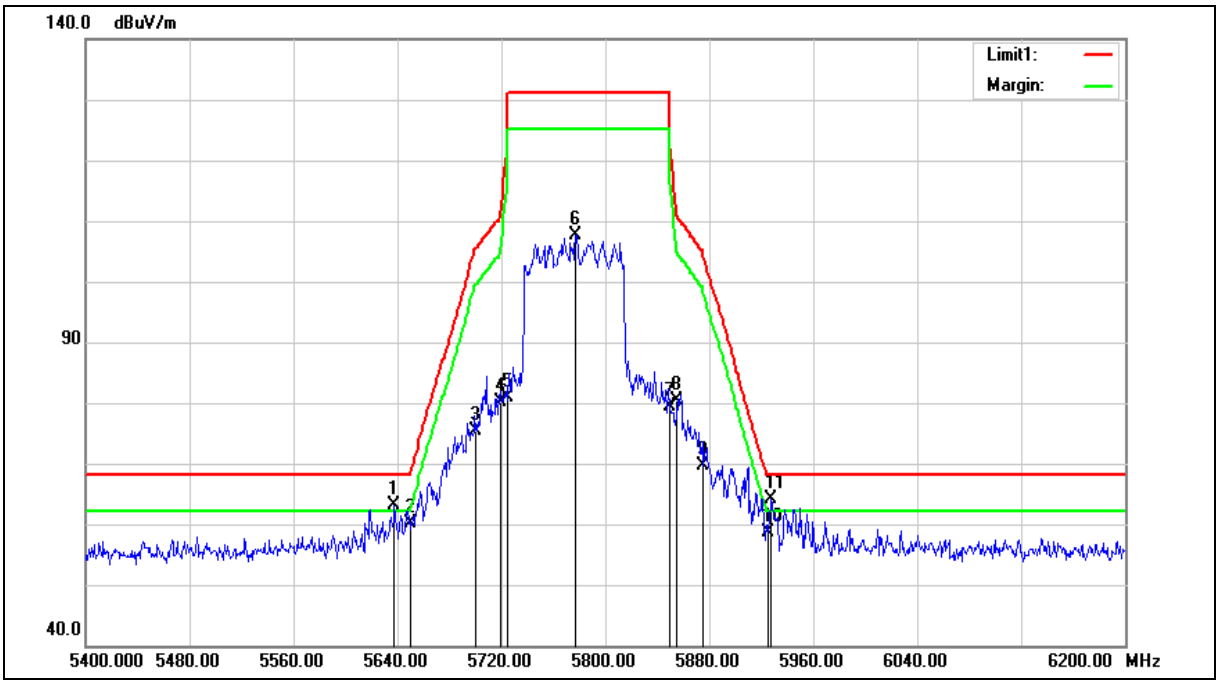
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5641.041	70.27	-6.35	63.92	68.20	-4.28	peak
2	5650.000	70.60	-6.32	64.28	68.20	-3.92	peak
3	5700.000	84.28	-6.19	78.09	105.20	-27.11	peak
4	5720.000	88.42	-6.14	82.28	110.80	-28.52	peak
5	5725.000	89.01	-6.14	82.87	122.20	-39.33	peak
6	5781.982	113.57	-5.98	107.59	--	--	peak
7	5850.000	85.84	-5.81	80.03	122.20	-42.17	peak
8	5855.000	82.10	-5.78	76.32	110.80	-34.48	peak
9	5875.000	78.13	-5.73	72.40	105.20	-32.80	peak
10	5925.000	67.01	-5.60	61.41	68.20	-6.79	peak
11	5968.569	66.80	-5.49	61.31	68.20	-6.89	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5775 MHz		
Mode:	Mode 7		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5775 MHz		
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	5637.838	69.49	-6.36	63.13	68.20	-5.07	peak
2	5650.000	66.45	-6.32	60.13	68.20	-8.07	peak
3	5700.000	81.69	-6.19	75.50	105.20	-29.70	peak
4	5720.000	86.33	-6.14	80.19	110.80	-30.61	peak
5	5725.000	86.94	-6.14	80.80	122.20	-41.40	peak
6	5777.177	113.64	-5.99	107.65	--	--	peak
7	5850.000	85.30	-5.81	79.49	122.20	-42.71	peak
8	5855.000	86.07	-5.78	80.29	110.80	-30.51	peak
9	5875.000	75.40	-5.73	69.67	105.20	-35.53	peak
10	5925.000	64.13	-5.60	58.53	68.20	-9.67	peak
11	5927.728	69.78	-5.60	64.18	68.20	-4.02	peak

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

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

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

Annex C. Conducted Test Results

Maximum Conducted Output Power Measurement

Test Mode	Data Rate	Frequency (MHz)	ANT-0		ANT-1		ANT-2		ANT-3		Limit (dBm)
			(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
Mode 2	6M	5180.0	16.44	0.044	16.51	0.045	16.45	0.044	16.61	0.046	≤ 30.00
		5200.0	16.42	0.044	16.32	0.043	16.37	0.043	16.56	0.045	≤ 30.00
		5220.0	16.32	0.043	16.28	0.042	16.32	0.043	16.52	0.045	≤ 30.00
		5240.0	16.31	0.043	16.22	0.042	16.41	0.044	16.48	0.044	≤ 30.00
		5745.0	18.93	0.078	18.51	0.071	18.68	0.074	18.94	0.078	≤ 30.00
		5765.0	18.71	0.074	18.61	0.073	18.64	0.073	19.01	0.080	≤ 30.00
		5785.0	18.92	0.078	18.87	0.077	19.07	0.081	19.35	0.086	≤ 30.00
		5805.0	18.88	0.077	18.65	0.073	19.01	0.080	19.31	0.085	≤ 30.00
		5825.0	18.93	0.078	18.81	0.076	19.11	0.081	19.07	0.081	≤ 30.00
Mode 3	26M	5180.0	17.98	0.063	18.24	0.067	18.26	0.067	18.30	0.068	≤ 30.00
		5200.0	19.21	0.083	18.81	0.076	18.77	0.075	18.87	0.077	≤ 30.00
		5220.0	19.00	0.079	18.50	0.071	18.77	0.075	18.90	0.078	≤ 30.00
		5240.0	19.06	0.081	18.38	0.069	18.69	0.074	18.85	0.077	≤ 30.00
		5745.0	18.49	0.071	18.27	0.067	18.72	0.074	18.75	0.075	≤ 30.00
		5765.0	18.53	0.071	18.45	0.070	18.75	0.075	18.76	0.075	≤ 30.00
		5785.0	18.57	0.072	18.49	0.071	18.87	0.077	18.79	0.076	≤ 30.00
		5805.0	18.66	0.073	18.56	0.072	18.88	0.077	18.83	0.076	≤ 30.00
		5825.0	19.05	0.080	18.64	0.073	19.19	0.083	18.82	0.076	≤ 30.00
Mode 4	54M	5190.0	16.45	0.044	16.22	0.042	16.59	0.046	16.61	0.046	≤ 30.00
		5230.0	19.33	0.086	18.57	0.072	19.07	0.081	19.02	0.080	≤ 30.00
		5755.0	18.67	0.074	18.44	0.070	19.05	0.080	19.24	0.084	≤ 30.00
		5795.0	19.03	0.080	18.85	0.077	19.37	0.086	19.41	0.087	≤ 30.00
Mode 5	26M	5180.0	18.12	0.065	18.29	0.067	18.28	0.067	18.32	0.068	≤ 30.00
		5200.0	19.25	0.084	18.85	0.077	18.86	0.077	19.01	0.080	≤ 30.00
		5220.0	19.11	0.081	18.58	0.072	18.78	0.076	18.94	0.078	≤ 30.00
		5240.0	19.07	0.081	18.63	0.073	18.81	0.076	18.91	0.078	≤ 30.00
		5745.0	18.51	0.071	18.31	0.068	18.83	0.076	18.88	0.077	≤ 30.00
		5765.0	18.64	0.073	18.51	0.071	18.84	0.077	18.84	0.077	≤ 30.00
		5785.0	18.71	0.074	18.62	0.073	18.94	0.078	18.91	0.078	≤ 30.00
		5805.0	18.69	0.074	18.59	0.072	18.91	0.078	18.88	0.077	≤ 30.00
		5825.0	19.07	0.081	18.77	0.075	19.27	0.085	18.94	0.078	≤ 30.00
Mode 6	54M	5190.0	16.58	0.045	16.33	0.043	16.61	0.046	16.67	0.046	≤ 30.00
		5230.0	19.44	0.088	18.71	0.074	19.11	0.081	19.02	0.080	≤ 30.00
		5755.0	18.81	0.076	18.51	0.071	19.18	0.083	19.29	0.085	≤ 30.00
		5795.0	19.12	0.082	18.92	0.078	19.41	0.087	19.44	0.088	≤ 30.00
Mode 7	117.2M	5210.0	16.41	0.044	15.82	0.038	16.15	0.041	16.14	0.041	≤ 30.00
		5775.0	18.92	0.078	18.79	0.076	19.21	0.083	19.28	0.085	≤ 30.00

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

Test Mode	Data Rate	Frequency (MHz)	ANT-0		ANT-1		ANT-2		ANT-3		Limit (dBm)
			(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
Mode 8	MCS 0	5180.0	18.05	0.064	17.97	0.063	17.92	0.062	18.14	0.065	≤ 30.00
		5200.0	19.52	0.090	18.96	0.079	19.01	0.080	19.21	0.083	≤ 30.00
		5220.0	19.42	0.087	18.67	0.074	18.94	0.078	19.15	0.082	≤ 30.00
		5240.0	19.37	0.086	18.81	0.076	18.96	0.079	19.14	0.082	≤ 30.00
		5745.0	18.73	0.075	18.52	0.071	18.86	0.077	18.97	0.079	≤ 30.00
		5765.0	18.75	0.075	18.69	0.074	19.11	0.081	19.11	0.081	≤ 30.00
		5785.0	18.84	0.077	18.74	0.075	19.31	0.085	19.29	0.085	≤ 30.00
		5805.0	18.82	0.076	18.71	0.074	19.24	0.084	19.21	0.083	≤ 30.00
		5825.0	19.12	0.082	18.92	0.078	19.22	0.084	19.31	0.085	≤ 30.00
Mode 9	MCS 0	5190.0	16.78	0.048	16.43	0.044	16.85	0.048	16.64	0.046	≤ 30.00
		5230.0	19.61	0.091	19.22	0.084	19.45	0.088	19.22	0.084	≤ 30.00
		5755.0	18.94	0.078	18.71	0.074	19.41	0.087	19.32	0.086	≤ 30.00
		5795.0	19.22	0.084	18.96	0.079	19.52	0.090	19.49	0.089	≤ 30.00
Mode 10	MCS 0	5210.0	16.09	0.041	15.73	0.037	15.88	0.039	15.97	0.040	≤ 30.00
		5775.0	19.01	0.080	18.92	0.078	19.35	0.086	19.37	0.086	≤ 30.00

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

Test Mode	Data Rate	Frequency (MHz)	ANT-0+1+2+3		Limit (dBm)
			(dBm)	(W)	
Mode 2	6M	5180.0	**22.52**	**0.179**	≤ 30.00
		5200.0	22.44	0.175	≤ 30.00
		5220.0	22.38	0.173	≤ 30.00
		5240.0	22.38	0.173	≤ 30.00
		5745.0	24.79	0.301	≤ 30.00
		5765.0	24.77	0.300	≤ 30.00
		5785.0	**25.08**	**0.322**	≤ 30.00
		5805.0	24.99	0.315	≤ 30.00
		5825.0	25.00	0.316	≤ 30.00
Mode 3	26M	5180.0	24.22	0.264	≤ 30.00
		5200.0	**24.94**	**0.312**	≤ 30.00
		5220.0	24.82	0.303	≤ 30.00
		5240.0	24.77	0.300	≤ 30.00
		5745.0	24.58	0.287	≤ 30.00
		5765.0	24.65	0.291	≤ 30.00
		5785.0	24.70	0.295	≤ 30.00
		5805.0	24.76	0.299	≤ 30.00
		5825.0	**24.95**	**0.313**	≤ 30.00
Mode 4	54M	5190.0	22.49	0.177	≤ 30.00
		5230.0	**25.03**	**0.318**	≤ 30.00
		5755.0	24.88	0.308	≤ 30.00
		5795.0	**25.19**	**0.331**	≤ 30.00
Mode 5	26M	5180.0	24.27	0.268	≤ 30.00
		5200.0	**25.02**	**0.317**	≤ 30.00
		5220.0	24.88	0.307	≤ 30.00
		5240.0	24.88	0.308	≤ 30.00
		5745.0	24.66	0.292	≤ 30.00
		5765.0	24.73	0.297	≤ 30.00
		5785.0	24.82	0.303	≤ 30.00
		5805.0	24.79	0.301	≤ 30.00
		5825.0	**25.04**	**0.319**	≤ 30.00
Mode 6	54M	5190.0	22.57	0.181	≤ 30.00
		5230.0	**25.10**	**0.323**	≤ 30.00
		5755.0	24.98	0.315	≤ 30.00
		5795.0	**25.25**	**0.335**	≤ 30.00
Mode 7	117.2M	5210.0	**22.16**	**0.164**	≤ 30.00
		5775.0	**25.08**	**0.322**	≤ 30.00

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

Test Mode	Data Rate	Frequency (MHz)	ANT-0+1+2+3		Limit (dBm)
			(dBm)	(W)	
Mode 8	MCS 0	5180.0	24.04	0.254	≤ 30.00
		5200.0	**25.20**	**0.331**	≤ 30.00
		5220.0	25.07	0.322	≤ 30.00
		5240.0	25.10	0.323	≤ 30.00
		5745.0	24.79	0.302	≤ 30.00
		5765.0	24.94	0.312	≤ 30.00
		5785.0	25.07	0.322	≤ 30.00
		5805.0	25.02	0.318	≤ 30.00
		5825.0	**25.17**	**0.329**	≤ 30.00
Mode 9	MCS 0	5190.0	22.70	0.186	≤ 30.00
		5230.0	**25.40**	**0.347**	≤ 30.00
		5755.0	25.12	0.325	≤ 30.00
		5795.0	**25.32**	**0.341**	≤ 30.00
Mode 10	MCS 0	5210.0	**21.94**	**0.156**	≤ 30.00
		5775.0	**25.19**	**0.330**	≤ 30.00

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

Beamforming on

Test Mode	Data Rate	Frequency (MHz)	ANT-0		ANT-1		ANT-2		ANT-3		Limit (dBm)
			(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
Mode 3	26M	5180.0	11.71	0.015	11.83	0.015	11.95	0.016	11.78	0.015	≤ 30.00
		5200.0	12.75	0.019	12.51	0.018	12.37	0.017	12.64	0.018	≤ 30.00
		5220.0	12.74	0.019	12.34	0.017	12.37	0.017	12.67	0.018	≤ 30.00
		5240.0	12.81	0.019	12.33	0.017	12.37	0.017	12.48	0.018	≤ 30.00
		5745.0	12.26	0.017	11.85	0.015	12.47	0.018	12.57	0.018	≤ 30.00
		5765.0	12.09	0.016	12.01	0.016	12.43	0.017	12.31	0.017	≤ 30.00
		5785.0	12.13	0.016	12.13	0.016	12.67	0.018	12.47	0.018	≤ 30.00
		5805.0	12.19	0.017	12.08	0.016	12.59	0.018	12.24	0.017	≤ 30.00
		5825.0	12.60	0.018	12.41	0.017	12.92	0.020	12.50	0.018	≤ 30.00
Mode 4	54M	5190.0	9.97	0.010	9.80	0.010	10.11	0.010	10.15	0.010	≤ 30.00
		5230.0	12.92	0.020	12.57	0.018	12.56	0.018	12.62	0.018	≤ 30.00
		5755.0	12.46	0.018	12.08	0.016	12.95	0.020	12.79	0.019	≤ 30.00
		5795.0	12.69	0.019	12.55	0.018	13.07	0.020	13.05	0.020	≤ 30.00
Mode 5	26M	5180.0	11.73	0.015	11.97	0.016	12.06	0.016	11.83	0.015	≤ 30.00
		5200.0	12.87	0.019	12.57	0.018	12.50	0.018	12.76	0.019	≤ 30.00
		5220.0	12.83	0.019	12.36	0.017	12.46	0.018	12.68	0.019	≤ 30.00
		5240.0	12.84	0.019	12.39	0.017	12.44	0.018	12.53	0.018	≤ 30.00
		5745.0	12.29	0.017	11.98	0.016	12.60	0.018	12.64	0.018	≤ 30.00
		5765.0	12.22	0.017	12.11	0.016	12.56	0.018	12.40	0.017	≤ 30.00
		5785.0	12.22	0.017	12.22	0.017	12.71	0.019	12.54	0.018	≤ 30.00
		5805.0	12.30	0.017	12.15	0.016	12.60	0.018	12.38	0.017	≤ 30.00
		5825.0	12.65	0.018	12.55	0.018	12.94	0.020	12.63	0.018	≤ 30.00
Mode 6	54M	5190.0	10.10	0.010	9.92	0.010	10.20	0.010	10.18	0.010	≤ 30.00
		5230.0	13.02	0.020	12.66	0.018	12.66	0.018	12.75	0.019	≤ 30.00
		5755.0	12.52	0.018	12.21	0.017	12.96	0.020	12.91	0.020	≤ 30.00
		5795.0	12.76	0.019	12.65	0.018	13.18	0.021	13.12	0.021	≤ 30.00
Mode 7	117.2M	5210.0	10.04	0.010	9.42	0.009	9.74	0.009	9.72	0.009	≤ 30.00
		5775.0	12.53	0.018	12.36	0.017	12.98	0.020	12.98	0.020	≤ 30.00

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

Test Mode	Data Rate	Frequency (MHz)	ANT-0		ANT-1		ANT-2		ANT-3		Limit (dBm)
			(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	
Mode 8	MCS 0	5180.0	11.63	0.015	11.63	0.015	11.59	0.014	11.80	0.015	≤ 30.00
		5200.0	13.09	0.020	12.72	0.019	12.70	0.019	12.93	0.020	≤ 30.00
		5220.0	12.95	0.020	12.61	0.018	12.60	0.018	12.66	0.018	≤ 30.00
		5240.0	12.97	0.020	12.75	0.019	12.52	0.018	12.69	0.019	≤ 30.00
		5745.0	12.26	0.017	12.08	0.016	12.78	0.019	12.65	0.018	≤ 30.00
		5765.0	12.35	0.017	12.34	0.017	12.75	0.019	12.62	0.018	≤ 30.00
		5785.0	12.43	0.017	12.41	0.017	13.04	0.020	12.90	0.019	≤ 30.00
		5805.0	12.33	0.017	12.42	0.017	12.87	0.019	12.82	0.019	≤ 30.00
		5825.0	12.82	0.019	12.63	0.018	12.77	0.019	12.85	0.019	≤ 30.00
Mode 9	MCS 0	5190.0	10.26	0.011	10.18	0.010	10.22	0.011	10.35	0.011	≤ 30.00
		5230.0	13.22	0.021	12.94	0.020	12.98	0.020	12.78	0.019	≤ 30.00
		5755.0	12.72	0.019	12.32	0.017	12.98	0.020	13.08	0.020	≤ 30.00
		5795.0	12.90	0.019	12.66	0.018	13.08	0.020	13.22	0.021	≤ 30.00
Mode 10	MCS 0	5210.0	9.61	0.009	9.47	0.009	9.39	0.009	9.69	0.009	≤ 30.00
		5775.0	12.68	0.019	12.65	0.018	13.07	0.020	12.98	0.020	≤ 30.00

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

Test Mode	Data Rate	Frequency (MHz)	ANT-0+1+2+3		Limit (dBm)
			(dBm)	(W)	
Mode 3	26M	5180.0	17.84	0.061	≤ 30.00
		5200.0	**18.59**	**0.072**	≤ 30.00
		5220.0	18.55	0.072	≤ 30.00
		5240.0	18.52	0.071	≤ 30.00
		5745.0	18.32	0.068	≤ 30.00
		5765.0	18.23	0.067	≤ 30.00
		5785.0	18.38	0.069	≤ 30.00
		5805.0	18.30	0.068	≤ 30.00
		5825.0	**18.63**	**0.073**	≤ 30.00
Mode 4	54M	5190.0	16.03	0.040	≤ 30.00
		5230.0	**18.69**	**0.074**	≤ 30.00
		5755.0	18.60	0.072	≤ 30.00
		5795.0	**18.87**	**0.077**	≤ 30.00
Mode 5	26M	5180.0	17.92	0.062	≤ 30.00
		5200.0	**18.70**	**0.074**	≤ 30.00
		5220.0	18.61	0.073	≤ 30.00
		5240.0	18.57	0.072	≤ 30.00
		5745.0	18.41	0.069	≤ 30.00
		5765.0	18.35	0.068	≤ 30.00
		5785.0	18.45	0.070	≤ 30.00
		5805.0	18.38	0.069	≤ 30.00
		5825.0	**18.72**	**0.074**	≤ 30.00
Mode 6	54M	5190.0	16.12	0.041	≤ 30.00
		5230.0	**18.80**	**0.076**	≤ 30.00
		5755.0	18.68	0.074	≤ 30.00
		5795.0	**18.95**	**0.079**	≤ 30.00
Mode 7	117.2M	5210.0	**15.76**	**0.038**	≤ 30.00
		5775.0	**18.74**	**0.075**	≤ 30.00

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

Test Mode	Data Rate	Frequency (MHz)	ANT-0+1+2+3		Limit (dBm)
			(dBm)	(W)	
Mode 8	MCS 0	5180.0	17.68	0.059	≤ 30.00
		5200.0	**18.88**	**0.077**	≤ 30.00
		5220.0	18.73	0.075	≤ 30.00
		5240.0	18.76	0.075	≤ 30.00
		5745.0	18.47	0.070	≤ 30.00
		5765.0	18.54	0.071	≤ 30.00
		5785.0	18.72	0.075	≤ 30.00
		5805.0	18.64	0.073	≤ 30.00
		5825.0	**18.79**	**0.076**	≤ 30.00
Mode 9	MCS 0	5190.0	16.27	0.042	≤ 30.00
		5230.0	**19.00**	**0.079**	≤ 30.00
		5755.0	18.81	0.076	≤ 30.00
		5795.0	**18.99**	**0.079**	≤ 30.00
Mode 10	MCS 0	5210.0	**15.56**	**0.036**	≤ 30.00
		5775.0	**18.87**	**0.077**	≤ 30.00

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

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