

RF Test Report

Applicant : Meter Inc

Product Name : Meter wireless access point

Trade Name : Meter

Model Number : MW03, MW04

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

Received Date : Jun. 01, 2023

Test Period : Jun. 13 ~ Jun. 21, 2023

Issued Date : Aug. 01, 2023

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, 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 Registration Number: 226252 (Bade test site)
Test Firm Registration Number: 191812 (Wugu test site)

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 Eurofins E&E Wireless Taiwan Co., Ltd.
- 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

Version	Issued Date	Revisions	Revised By
00	Aug. 01, 2023	Initial Issue	Nicole Chu

Verification of Compliance

Applicant : Meter Inc

Product Name : Meter wireless access point

Trade Name : Meter

Model Number : MW03, MW04

FCC ID : 2AVVV-MW03

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

Test Result : Complied

Performing Lab. : Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, Taiwan (R.O.C.)
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Taiwan Accreditation Foundation accreditation number: 1330



Eurofins E&E Wireless Taiwan Co., Ltd. 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 Eurofins E&E Wireless Taiwan Co., Ltd. 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 : _____

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1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
15.407(b)(9) 15.207	AC Power Conducted Emission	PASS	---
15.407(b) 15.205 / 15.209	Transmitter Radiated Emissions	PASS	---
15.407(a)	Maximum Conducted Output Power	PASS	---
15.407(a)	26 dB RF Bandwidth	Reference	---
15.407(e)	6 dB RF Bandwidth	N/A	---
15.407(a)	Maximum Power Spectral Density	PASS	---
15.407(c)	Automatically discontinue transmission	PASS	---
15.407(a) 15.203	Antenna Requirement	PASS	---

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. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.

Site Address: ☒ No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C.)

Site Address: ☐ No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB
Radiated Emission	9 kHz ~ 30 MHz	1.9 dB
	30 MHz ~ 1000 MHz	4.9 dB
	1000 MHz ~ 18000 MHz	5.0 dB
	18000 MHz ~ 26500 MHz	4.4 dB
	26500 MHz ~ 40000 MHz	4.4 dB
Conducted Output Power		1.1 dB
RF Bandwidth		4.7 %
Power Spectral Density		1.1 dB
Frequency Stability		1.3×10^{-7}
Duty Cycle		1.1 %
Time Occupancy		1.5 %

2 EUT Description

Applicant	Meter Inc 548 Market St., PMB 22716, San Francisco, CA 94104				
Product Name	Meter wireless access point				
Trade Name	Meter				
Model Number	MW03, MW04				
Models different description	MW04 has a scanning function while MW03 does not. The rest are identical.				
FCC ID	2AVVV-MW03				
Operate Frequency	Frequency Band		Frequency Range (MHz)	Number of Channels	
	802.11a	U-NII Band 2-A	5260 – 5320	4	
		U-NII Band 2-C	5500 – 5700	8	
	802.11n HT20 / 802.11ac VHT20	U-NII Band 2-A	5260 – 5320	4	
		U-NII Band 2-C	5500 – 5700	8	
	802.11n HT40 / 802.11ac VHT40	U-NII Band 2-A	5270 – 5310	2	
		U-NII Band 2-C	5510 – 5670	3	
802.11ac VHT80	U-NII Band 2-A	5290	1		
	U-NII Band 2-C	5530	1		
Modulation Type	OFDM				
Antenna information	Antenna	Model	Type	Max. Gain (dBi)	
	Ant-0 (ANT-5)	5718A0350300	Metal PIFA Antenna	U-NII Band 2-A	4.54
				U-NII Band 2-C	5.65
	Ant-1 (ANT-6)	5718A0351300	Metal PIFA Antenna	U-NII Band 2-A	4.61
				U-NII Band 2-C	4.59
	Ant-2 (ANT-8)	5718A0353300	Metal PIFA Antenna	U-NII Band 2-A	4.15
				U-NII Band 2-C	4.98
	Ant-3 (ANT-7)	5718A0352300	Metal PIFA Antenna	U-NII Band 2-A	4.25
U-NII Band 2-C				5.84	
Antenna Delivery	Reference section 3.1				
Operate Temp. Range	0 ~ +50 °C				
EUT Power Rating	12 V, 2 A				

EUT Modify Description :

Modify Description:
 MW3,MW04 add Band 2, Band 3 for DFS Function, removes the shipping adapter, others are all identical.
 Applicant Change of Address.

After the evaluation, All Band 2, Band 3 need to be re-evaluated.

The other test data refer to the original report.

With reference to FCC ID: 2AVVV-MW03

Frequency Band		RF Output Power (W)
802.11a	U-NII Band 2-A	0.058
	U-NII Band 2-C	0.053
802.11n HT20	U-NII Band 2-A	0.174
	U-NII Band 2-C	0.197
802.11n HT40	U-NII Band 2-A	0.223
	U-NII Band 2-C	0.233
802.11ac VHT20	U-NII Band 2-A	0.181
	U-NII Band 2-C	0.204
802.11ac VHT40	U-NII Band 2-A	0.233
	U-NII Band 2-C	0.245
802.11ac VHT80	U-NII Band 2-A	0.055
	U-NII Band 2-C	0.029

Beamforming on

Frequency Band		RF Output Power (W)
802.11n HT20	U-NII Band 2-A	0.042
	U-NII Band 2-C	0.046
802.11n HT40	U-NII Band 2-A	0.054
	U-NII Band 2-C	0.056
802.11ac VHT20	U-NII Band 2-A	0.044
	U-NII Band 2-C	0.049
802.11ac VHT40	U-NII Band 2-A	0.057
	U-NII Band 2-C	0.059
802.11ac VHT80	U-NII Band 2-A	0.013
	U-NII Band 2-C	0.007

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

In the test report use EUT model: MW04 to operate testing.

Decision of Test Eurofins 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:

Pre-Test Mode	Final-Test Mode
Transmit Mode	V
802.11a	V
802.11n HT20	
802.11n HT40	
802.11ac VHT20	V
802.11ac VHT40	V
802.11ac VHT80	V

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes.

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Y axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

Note : Investigation has been done on all the possible configurations for searching the worst cases (VHT20/VHT40 covers HT20/HT40). The table is a list of the test modes show in this test report.

Test Mode	ANT-0	ANT-1	ANT-2	ANT-3	ANT-0+1+2+3
802.11a	V	V	V	V	V
802.11n HT20	V	V	V	V	V
802.11n HT40	V	V	V	V	V
802.11ac VHT20	V	V	V	V	V
802.11ac VHT40	V	V	V	V	V
802.11ac VHT80	V	V	V	V	V

Test Mode	Antenna Delivery	Data Rate (Mbps)	Band	Test Channel
802.11a	4TX (CDD)	6	U-NII Band 2-A	52, 56, 64
			U-NII Band 2-C	100, 112, 140
802.11n HT20	4TX (STBC)	26	U-NII Band 2-A	52, 56, 64
			U-NII Band 2-C	100, 112, 140
802.11n HT40	4TX (STBC)	54	U-NII Band 2-A	54, 62
			U-NII Band 2-C	102, 110, 134
802.11ac VHT20	4TX (STBC/Beamforming on)	26	U-NII Band 2-A	52, 56, 64
			U-NII Band 2-C	100, 112, 140
802.11ac VHT40	4TX (STBC/Beamforming on)	54	U-NII Band 2-A	54, 62
			U-NII Band 2-C	102, 110, 134
802.11ac VHT80	4TX (STBC/Beamforming on)	117.2	U-NII Band 2-A	58
			U-NII Band 2-C	106

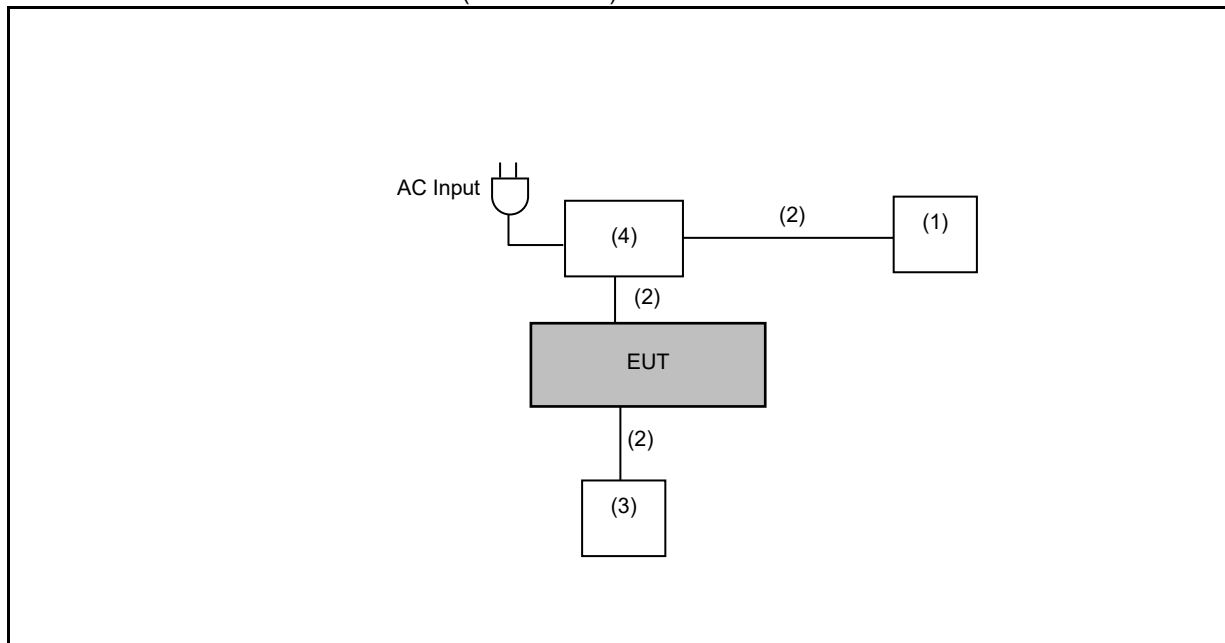
3.2. EUT Test Step

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.

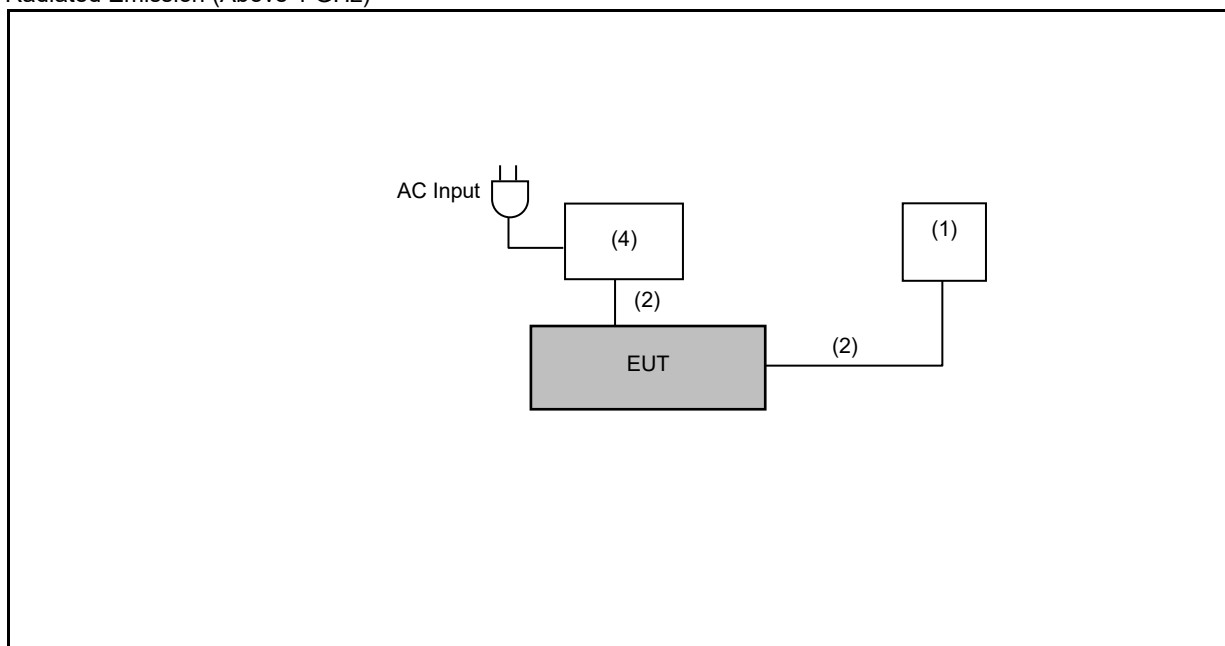
1.	Setup the EUT shown on "Configuration of Test System Details".
2.	Turn on the power of all equipment.
3.	Turn on TX function.
4.	EUT run test program.

3.3. Configuration of Test System Details

Conducted Emission & Radiated Emission (Below 1 GHz)



Radiated Emission (Above 1 GHz)



	Product	Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	ASUS	P1448U	---	---
(2)	LAN Cable	TATUNG	CAT5E	---	---
(3)	Notebook	Acer	N19C1	---	---
(4)	PoE Injector	emplus	EPA5006GAT	---	---
(5)	Adapter	APD	WB-24J12FG	---	---
(6)	Adapter	DEE	KSA-24W-120200D5	---	---

3.4. Test Instruments

For Conducted Emission

Test Period: Jun. 18, 2023

Testing Engineer: Jayson Hsieh

Test Site		Conduction01-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Test Receiver	R&S	ESCI	100367	May 22, 2023	1 year
☐	Test Receiver	R&S	ESCI	100722	Nov. 02, 2022	1 year
☐	Test Receiver	R&S	ESCI	101000	Nov. 23, 2022	1 year
☒	LISN	R&S	ENV216	101040	Mar. 21, 2023	1 year
☒	LISN	R&S	ENV216	101140	Jan. 12, 2023	1 year
☒	RF Cable	Woken	00100D1380194M	TE-02-03	Jun. 01, 2023	1 year
☒	Software	EZ EMC	1.1.4.3	N/A	N.C.R.	---

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

For Conducted

Test Period: Jun. 13 ~ Jun. 21, 2023

Testing Engineer: Brian Lin, Andy Lu

Test Site		RF01-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☐	Power Sensor	Anritsu	MA2411B	1126022	Sep. 04, 2022	1 year
☐	Power Meter	Anritsu	ML2495A	1135009	Sep. 04, 2022	1 year
☒	Power Sensor	Agilent	N1921A	MY45241957	Nov. 30, 2022	1 year
☒	Power Meter	Agilent	N1911A	MY45101619	Nov. 30, 2022	1 year
☒	Spectrum Analyzer (10 Hz~26.5 GHz)	Keysight	N9010B	MY59071418	Mar. 20, 2023	1 year
☐	Spectrum Analyzer (9 kHz~26.5 GHz)	Agilent	N9010A	MY48030518	Jul. 21, 2022	1 year
☐	Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	Sep. 01, 2022	1 year
☐	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Dec. 29, 2022	1 year
☐	Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	Mar. 29, 2023	1 year
☐	Signal Generator	Keysight	N5182B	MY53052569	Apr. 17, 2023	1 year
☐	Signal Generator	Keysight	N5182BX07	MY59360221	Apr. 17, 2023	1 year
☐	Bluetooth Tester	R&S	CBT	100350	Mar. 20, 2023	2 years
☐	Wireless Connectivity Tester	R&S	CMW270	102208	Jun. 05, 2023	1 year
☐	Power Supply	KEITHLEY	2303	4045290	Jan. 06, 2023	1 year

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

For Radiated Emissions
Test Period: Jun. 13 ~ Jun. 15, 2023
Testing Engineer: Eason Lee

Test Site		96601-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9010A	MY52221312	Jan. 07, 2023	1 year
☐	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Dec. 29, 2022	1 year
☒	Amplifier (10 kHz~3 GHz)	Agilent	EMC001330	980862	Dec. 01, 2022	1 year
☐	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A10961	Jul. 07, 2022	1 year
☐	Amplifier (1 GHz~26.5 GHz)	Agilent	8449B	3008A02237	Oct. 19, 2022	1 year
☒	Pre Amplifier (1~26.5 GHz)	Agilent	8449B	3008A02455	Jul. 07, 2022	1 year
☐	Preamplifier (1 GHz~26.5 GHz)	EMCI	EMC012645SE	980289	Feb. 16, 2023	1 year
☒	Preamplifier (26.5 GHz~40 GHz)	EMCI	EMC2654045	980028	Sep. 02, 2022	1 year
☒	Loop Antenna (9 kHz~30 MHz)	COM-POWER CORPORATION	AL-130	121014	Mar. 23, 2023	1 year
☐	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	01146	Jul. 22, 2022	1 year
☒	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	416	Dec. 19, 2022	1 year
☐	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	02207	Jul. 13, 2022	1 year
☒	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess-Elektronik	9120D	9120D-550	Aug. 25, 2022	1 year
☒	Broadband Horn Antenna (18 GHz~40 GHz)	Schwarzbeck Mess-Elektronik	9170	9170-320	Aug. 25, 2022	1 year
☐	Preamplifier (18 GHz~40 GHz)	EMCI	EMC184045SE	980861	Dec. 15, 2022	1 year
☐	Horn Antenna (18 GHz~40 GHz)	ETS	3116	00086467	Dec. 05, 2022	1 year

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

For Radiated Emissions
Test Period: Jun. 13 ~ Jun. 15, 2023
Testing Engineer: Eason Lee

Test Site		96601-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Microwave Cable	EMCI	EMC104-SM-SM-13000	170814	Feb. 17, 2023	1 year
☒	Microwave Cable	EMCI	EMCCFD400-NM-NM-6000	210902	Feb. 17, 2023	1 year
☒	Microwave Cable	SUHNER	suflex104	313229/4	Feb. 17, 2023	1 year
☐	Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	Feb. 17, 2023	1 year
☐	RF Cable (30-1000 MHz)	EMCI	EMC104-N-N-2000	TE01-2	Feb. 17, 2023	1 year
☐	RF Cable (30-1000 MHz)	EMCI	EMC104-N-N-6000	TE01-1	Feb. 17, 2023	1 year
☐	RF Cable (30-1000 MHz)	EMCI	EMC 106-SM-NM-1000	171219 (TE01-3)	Feb. 17, 2023	1 year
☐	Bluetooth Tester	R&S	CBT	100350	Mar. 20, 2023	2 years
☐	Wireless Connectivity Tester	R&S	CMW270	102208	Jun. 05, 2023	1 year
☐	Power Supply	KEITHLEY	2303	4045290	Jan. 06, 2023	1 year
☒	Software	EZ EMC	1.1.4.4	N/A	N.C.R.	---

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

3.5. Test Site Environment

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

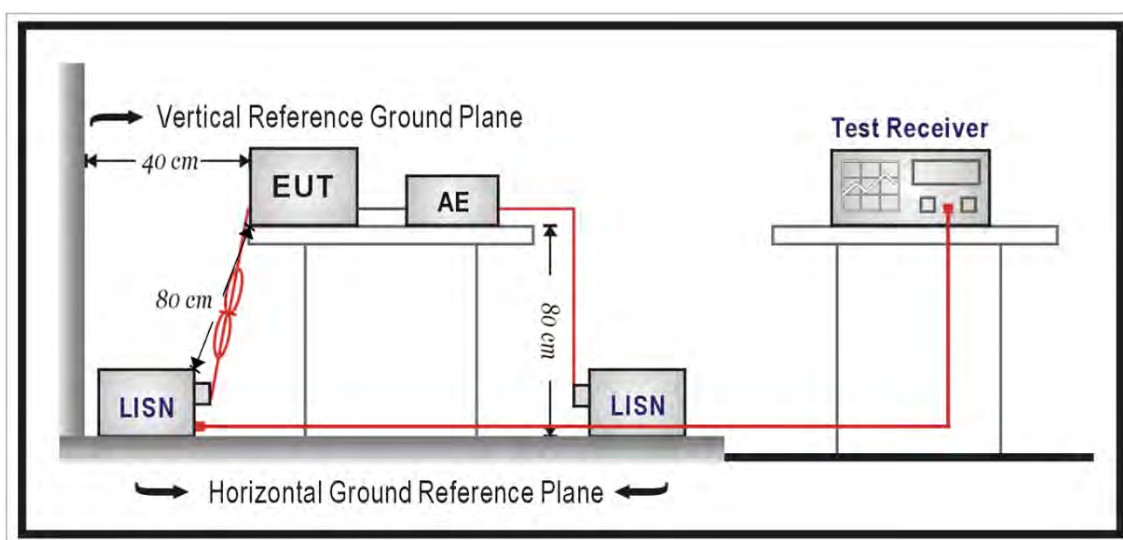
4 Measurement Procedure

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 $50\ \Omega // 50\ \mu\text{H}$ coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a $50\ \Omega // 50\ \mu\text{H}$ coupling impedance with 50 ohm termination.

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

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

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50 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)(9) 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

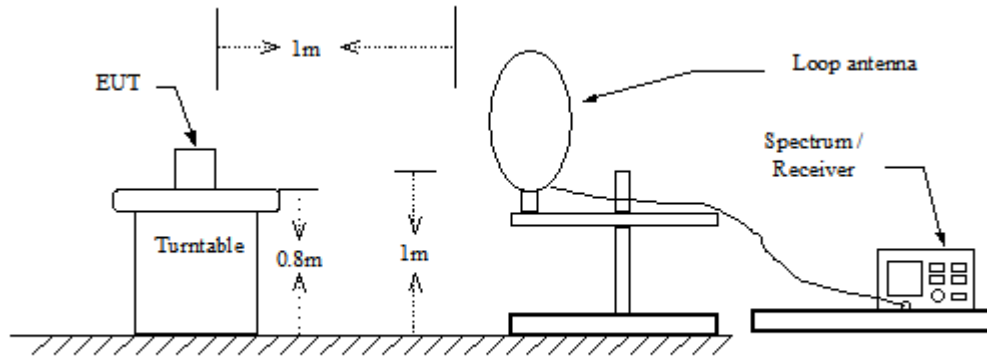
Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

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

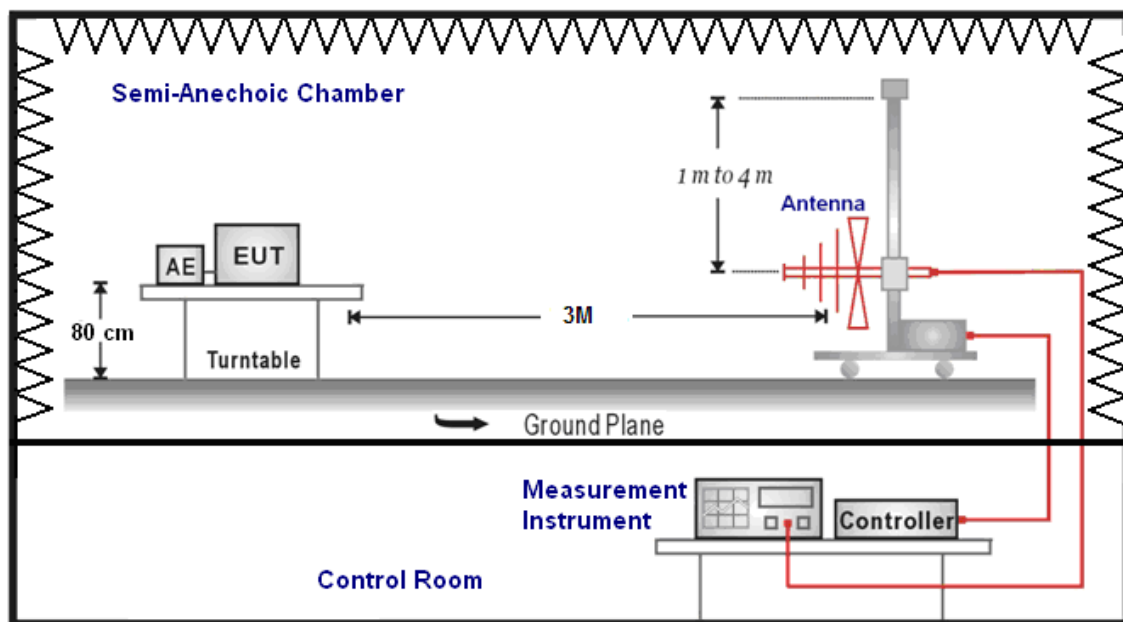
- Note:
- The lower limit shall apply at the transition frequencies.
 - Emission level (dBuV/m) = 20 log Emission level (uV/m).
 - As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not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

■ Setup

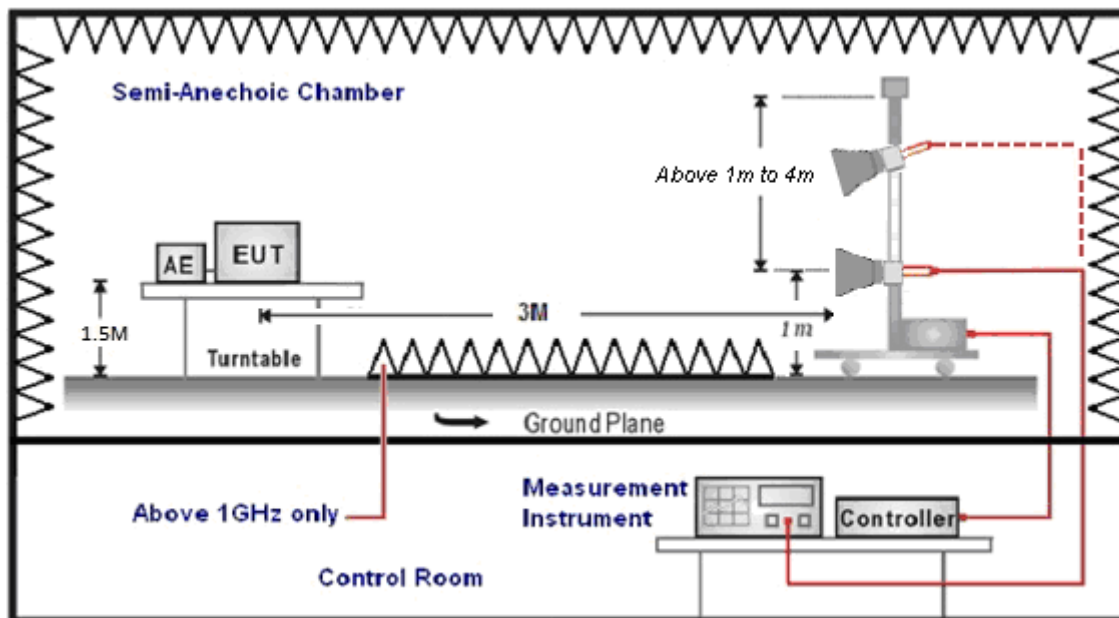
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



■ 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 30 MHz the resolution bandwidth is set to 10 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements. The video bandwidth is 3 times of the resolution bandwidth.

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 three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization. SCHWARZBECK MESS-ELEKTRONIK Trilog-Broadband Antenna at 3 Meter and the ETS-Lindgren Double-Ridged Waveguide Horn antenna 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 per meter (uV/m).

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

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) + AF (dBuV) + CL (dBuV) - Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

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

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

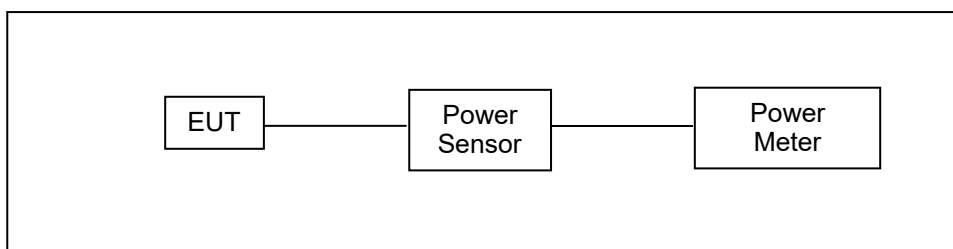
4.3. Maximum Conducted Output Power and Transmit power control Measurement

■ Limit

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

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

■ Test Setup



■ Test Procedure

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

Section (E) Maximum Conducted Output Power

3. Measurement using a Power Meter (PM)

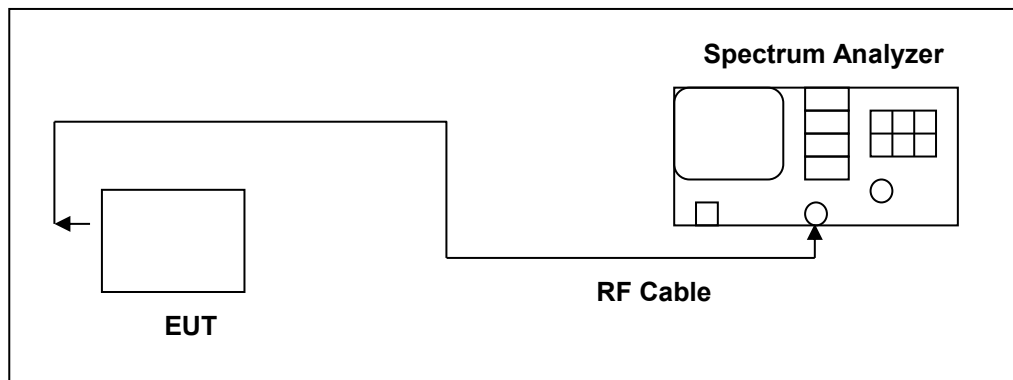
b) Method PM-G (Measurement using a gated RF average power meter)

4.4. 26 dB RF Bandwidth Measurement

■ **Limit**

N/A

■ **Test Setup**



■ **Test Procedure**

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

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

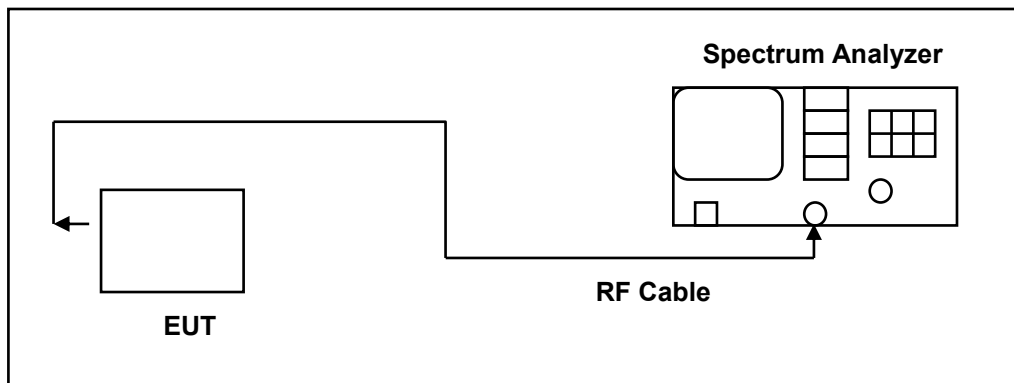
4.5. 6 dB RF Bandwidth Measurement

■ Limit

6 dB RF Bandwidth

Systems using digital modulation techniques may operate in the 5725~5825 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

■ Test Setup



■ Test Procedure

6 dB RF Bandwidth

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

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

The test was performed at 3 channels.

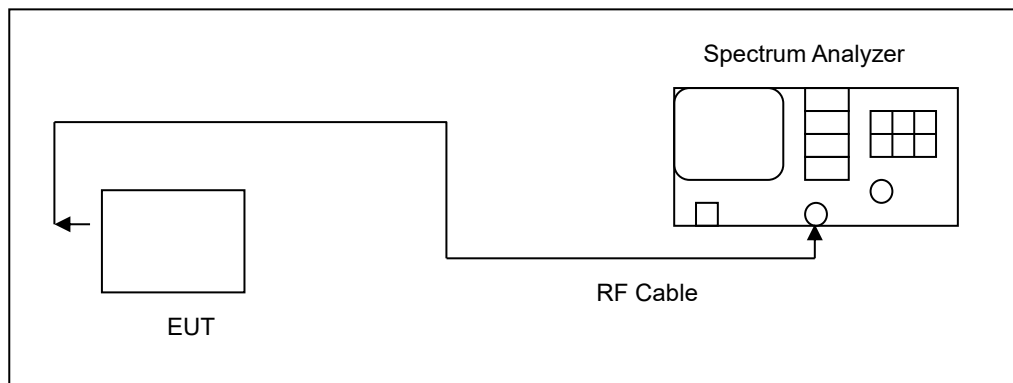
4.6. Maximum Power Spectral Density Measurement

■ Limit

Frequency Range (MHz)	FCC Limit
	Master
5.150 ~ 5.250 GHz	17 dBm/MHz
5.250 ~ 5.350 GHz	11 dBm/MHz
5.470 ~ 5.725 GHz	11 dBm/MHz
5.725 ~ 5.850 GHz	30 dBm/500 kHz

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

■ Test Setup

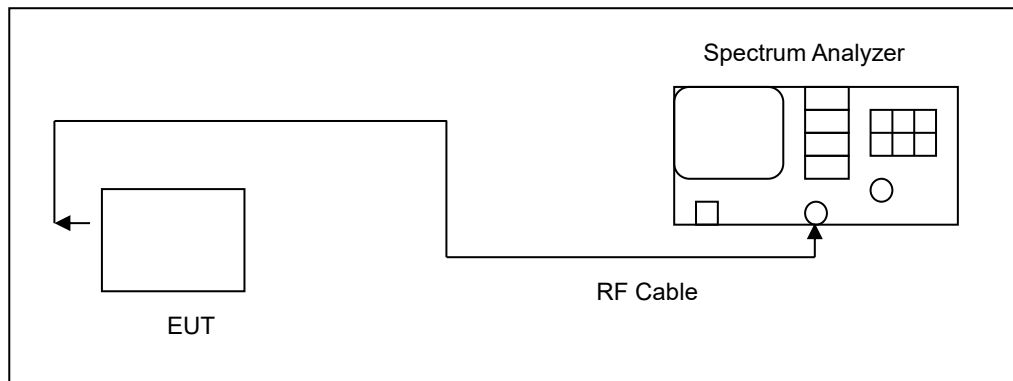


■ Test Procedure

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

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

■ Test Setup



■ Test Procedure

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz (5725 ~ 5895 MHz use 100 kHz)
VBW	3 MHz (5725 ~ 5895 MHz use 300 kHz)
Detector	RMS
Trace	AVERAGE
Sweep Time	Auto
Trace Average	100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz or 1 MHz, add $10 \log(500 \text{ kHz}/100 \text{ kHz})$ or $10 \log(1 \text{ MHz}/100 \text{ kHz})$ to the measured result.	

4.7. Automatically discontinue transmission

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

■ Declare

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

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

4.8. Antenna Requirement

■ Requirement

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

And According to 15.407 (a), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ Antenna Connector Construction

See section 2 – antenna information.

Directional Gain Calculated

Test mode	Band	Transmission Type	Antenna				Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
			Ant-0	Ant-1	Ant-2	Ant-3				
			(dBi)	(dBi)	(dBi)	(dBi)				
802.11a	Band II-A	CDD	4.54	4.61	4.15	4.25	4.61	10.41	0.00	4.41
	Band II-C		5.65	4.59	4.98	5.84	5.84	11.30	0.00	5.30
802.11n HT20 802.11n HT40 802.11ac VHT20 802.11ac VHT40 802.11ac VHT80	Band II-A	STBC	4.54	4.61	4.15	4.25	4.61	4.39	0.00	0.00
	Band II-C		5.65	4.59	4.98	5.84	5.84	5.29	0.00	0.00

If transmit signals are correlated, then Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$

If all transmit signals are completely uncorrelated, then Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$

Beamforming on

Test mode	Band	Transmission Type	Antenna				Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
			Ant-0	Ant-1	Ant-2	Ant-3				
			(dBi)	(dBi)	(dBi)	(dBi)				
802.11n HT20 802.11n HT40 802.11ac VHT20 802.11ac VHT40 802.11ac VHT80	Band II-A	MIMO	4.54	4.61	4.15	4.25	10.41	10.41	4.41	4.41
	Band II-C		5.65	4.59	4.98	5.84	11.30	11.30	5.30	5.30

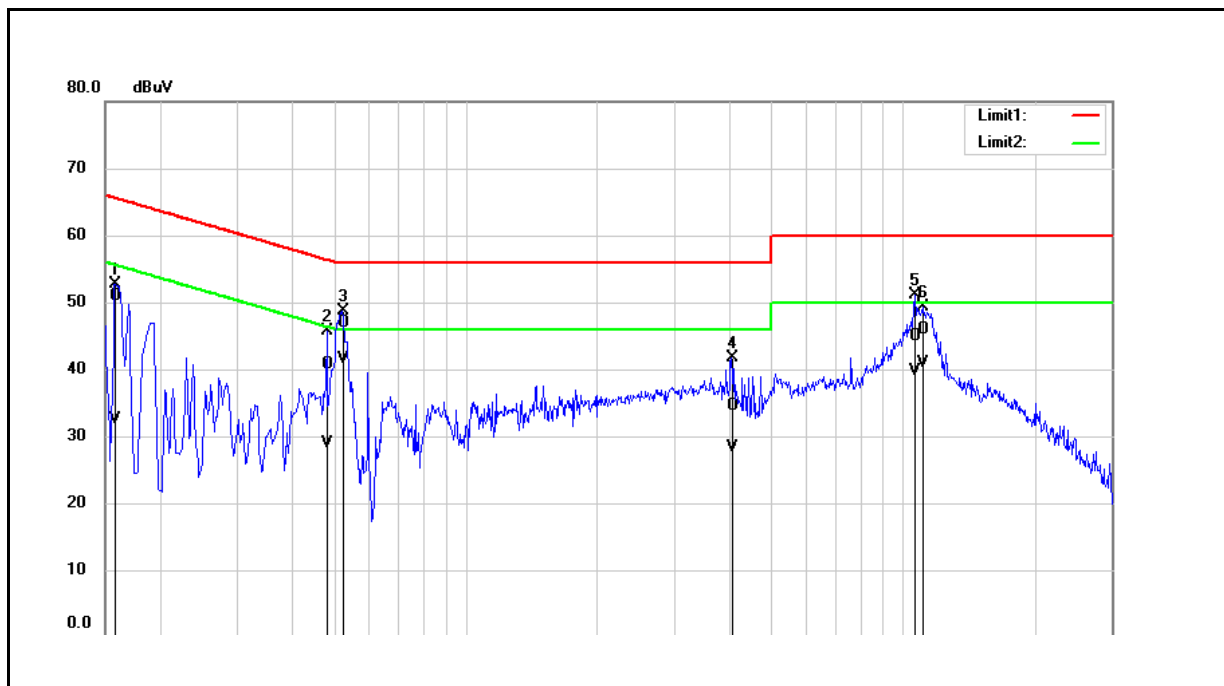
If transmit signals are correlated, then Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$

If all transmit signals are completely uncorrelated, then Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$

5 Test Results

5.1. Conducted Emission

Standard:	FCC Part 15.407	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Test Mode:	Transmit mode		
Description:			

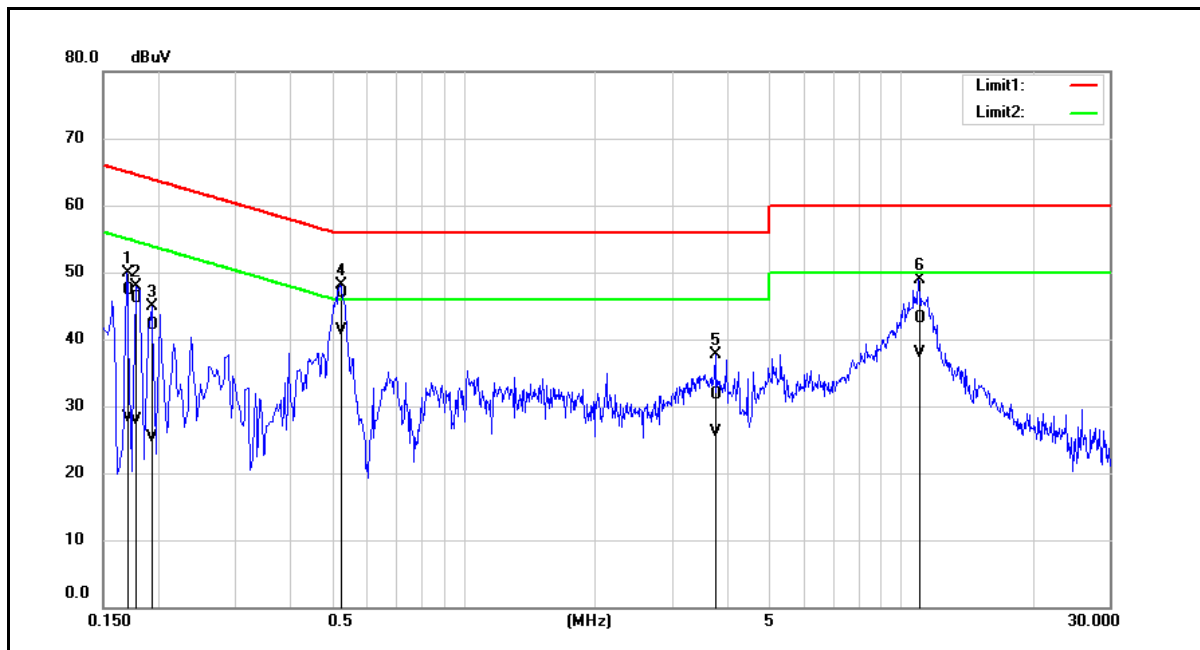


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1580	41.33	22.97	9.59	50.92	32.56	65.57	55.57	-14.65	-23.01	Pass
2	0.4820	31.10	19.23	9.60	40.70	28.83	56.30	46.30	-15.60	-17.47	Pass
3	0.5220	37.29	31.90	9.60	46.89	41.50	56.00	46.00	-9.11	-4.50	Pass
4	4.0700	24.70	18.64	9.72	34.42	28.36	56.00	46.00	-21.58	-17.64	Pass
5	10.6300	35.00	29.95	9.85	44.85	39.80	60.00	50.00	-15.15	-10.20	Pass
6	11.1300	36.10	31.12	9.86	45.96	40.98	60.00	50.00	-14.04	-9.02	Pass

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

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

Standard:	FCC Part 15.407	Line:	N
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Test Mode:	Transmit mode		
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1700	37.81	18.81	9.58	47.39	28.39	64.96	54.96	-17.57	-26.57	Pass
2	0.1780	36.55	18.33	9.58	46.13	27.91	64.58	54.58	-18.45	-26.67	Pass
3	0.1940	32.58	15.69	9.58	42.16	25.27	63.86	53.86	-21.70	-28.59	Pass
4	0.5220	37.25	31.71	9.59	46.84	41.30	56.00	46.00	-9.16	-4.70	Pass
5	3.7620	22.03	16.31	9.72	31.75	26.03	56.00	46.00	-24.25	-19.97	Pass
6	10.9780	33.13	28.09	9.90	43.03	37.99	60.00	50.00	-16.97	-12.01	Pass

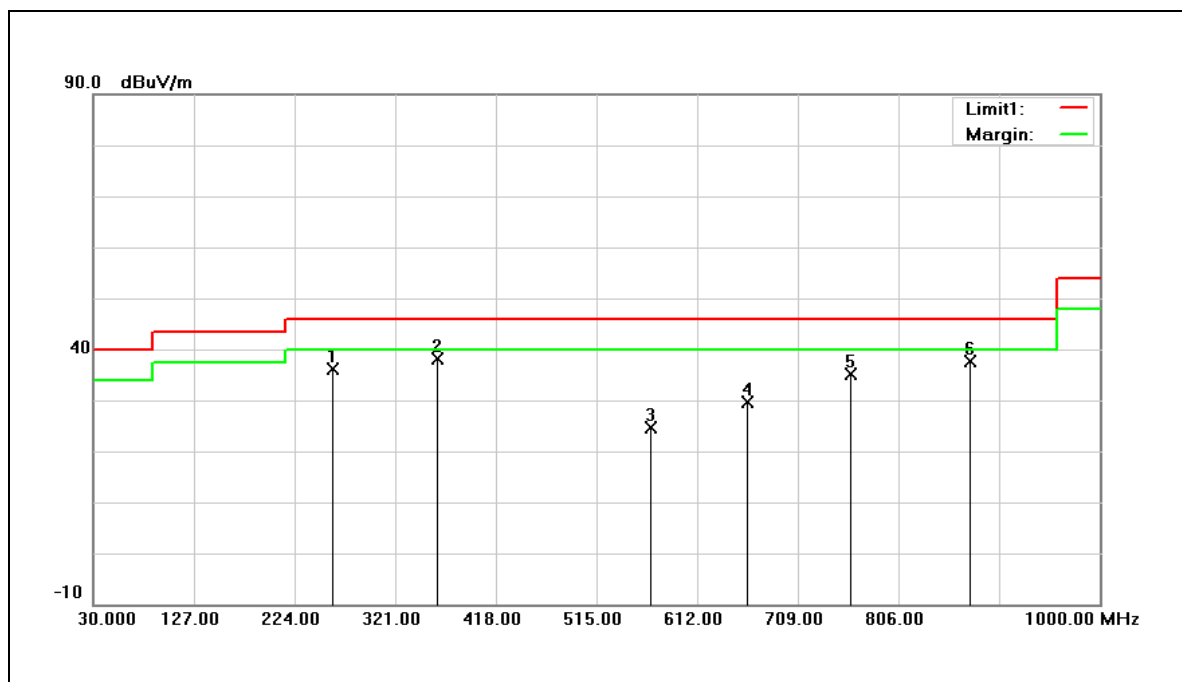
Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

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

5.2. Radiated Emission Measurement

Below 1 GHz

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Radiated Emission		
Mode:	Transmit mode		
Ant.Polar.:	Horizontal		



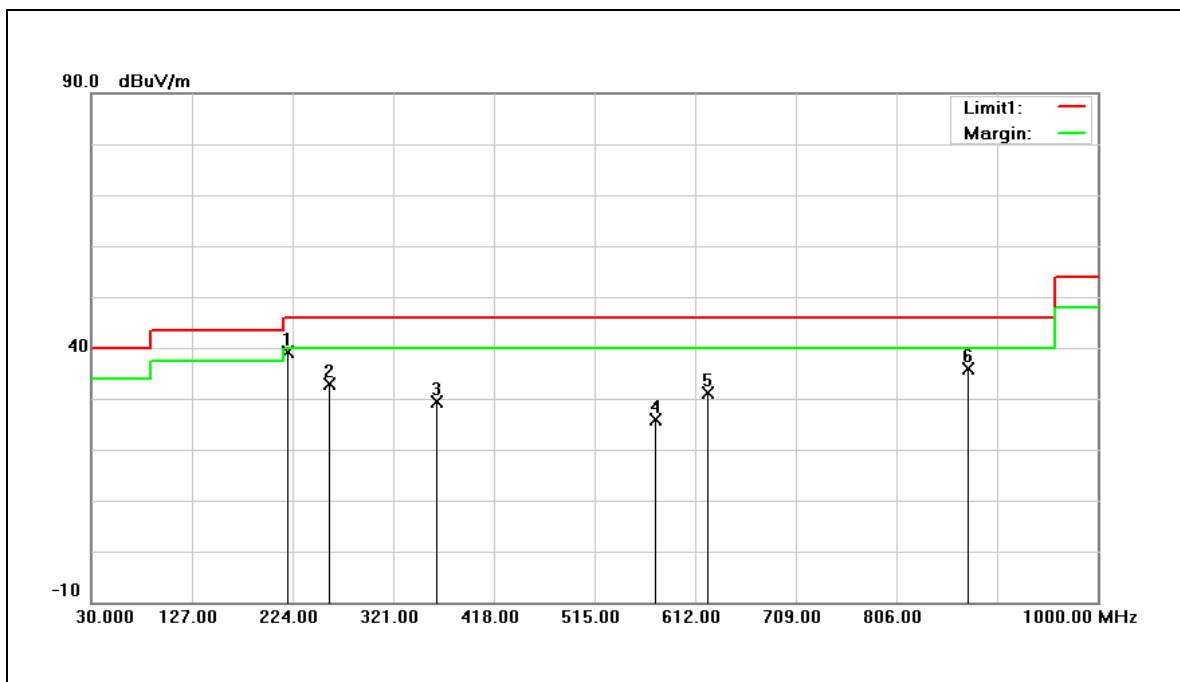
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	260.8600	46.95	-10.92	36.03	46.00	-9.97	QP
2	361.7400	45.47	-7.39	38.08	46.00	-7.92	QP
3	567.3800	27.76	-3.09	24.67	46.00	-21.33	QP
4	660.5000	30.47	-0.83	29.64	46.00	-16.36	QP
5	760.4100	33.82	1.21	35.03	46.00	-10.97	QP
6	874.8700	35.68	1.97	37.65	46.00	-8.35	QP

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Radiated Emission		
Mode:	Transmit mode		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	219.1500	52.07	-12.97	39.10	46.00	-6.90	QP
2	258.9200	43.98	-11.00	32.98	46.00	-13.02	QP
3	362.7100	36.74	-7.35	29.39	46.00	-16.61	QP
4	573.2000	28.70	-2.80	25.90	46.00	-20.10	QP
5	624.6100	32.08	-1.06	31.02	46.00	-14.98	QP
6	874.8700	33.91	1.97	35.88	46.00	-10.12	QP

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

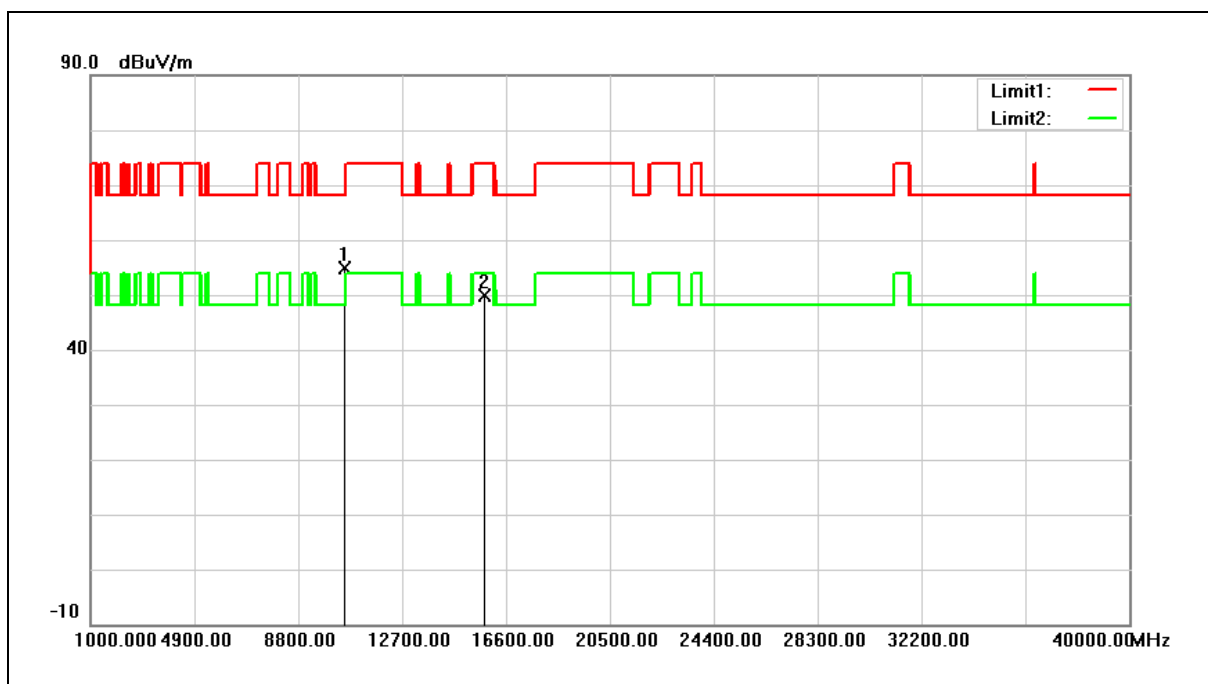
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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:	5260 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



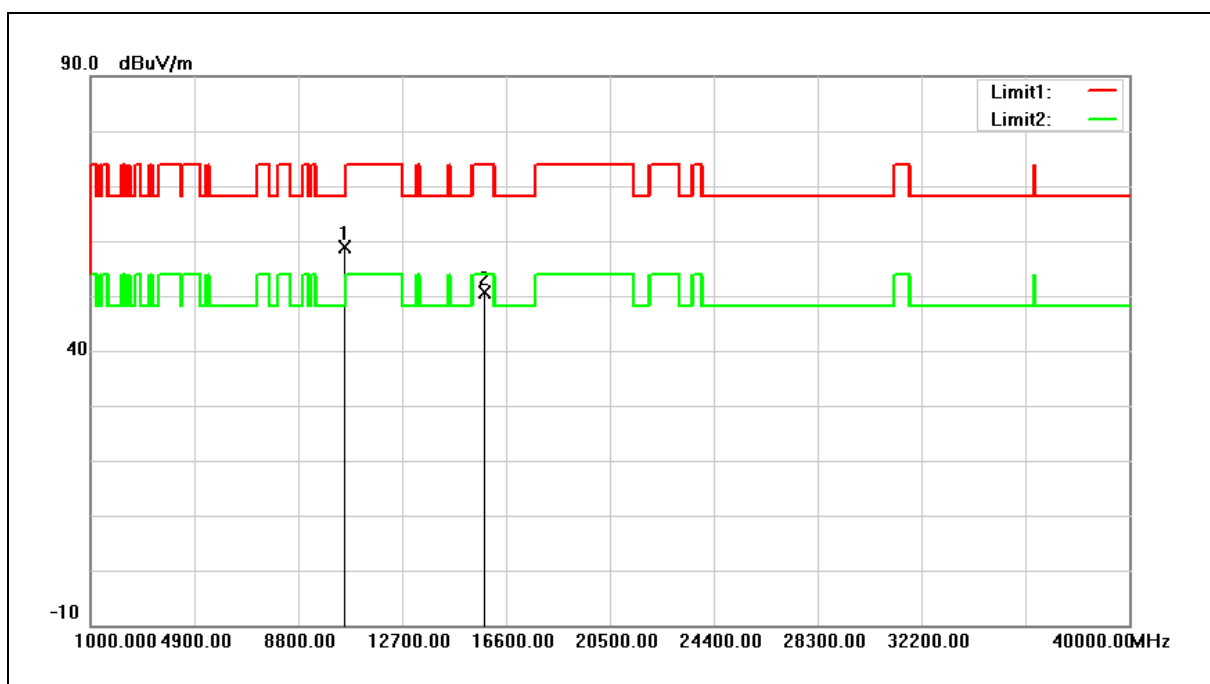
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	36.06	18.71	54.77	68.20	-13.43	peak
2	15780.000	68.61	-18.75	49.86	74.00	-24.14	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5260 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



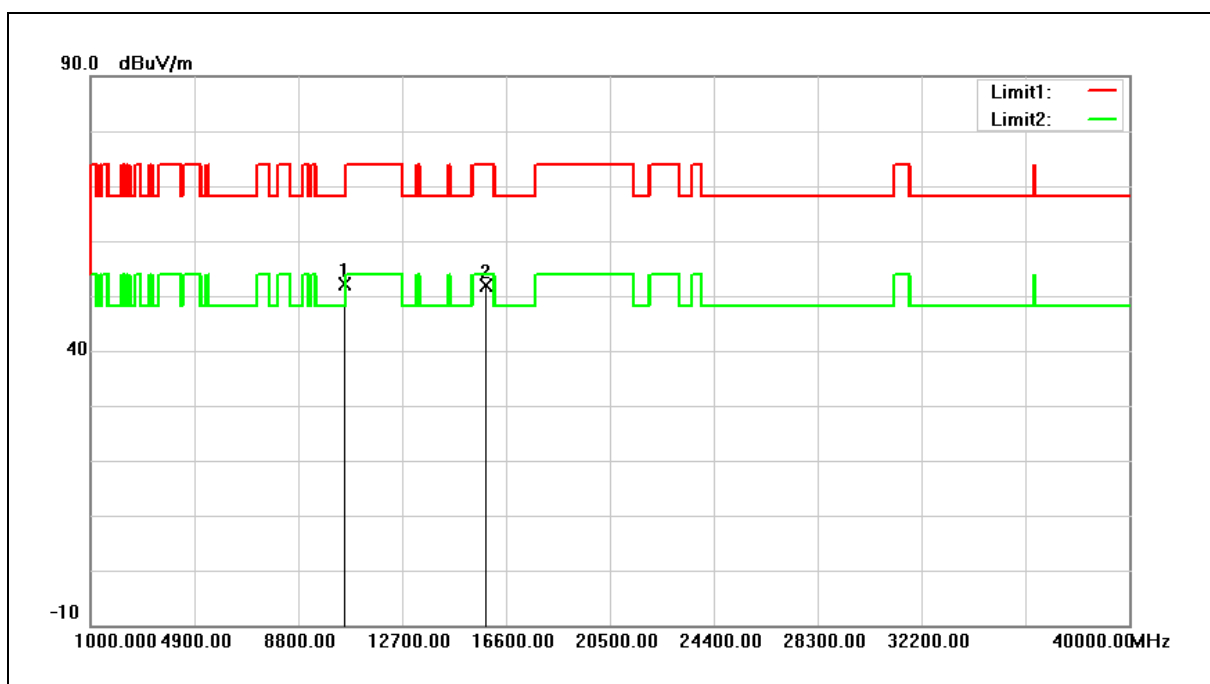
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	40.21	18.71	58.92	68.20	-9.28	peak
2	15780.000	69.43	-18.75	50.68	74.00	-23.32	peak

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:	5280 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



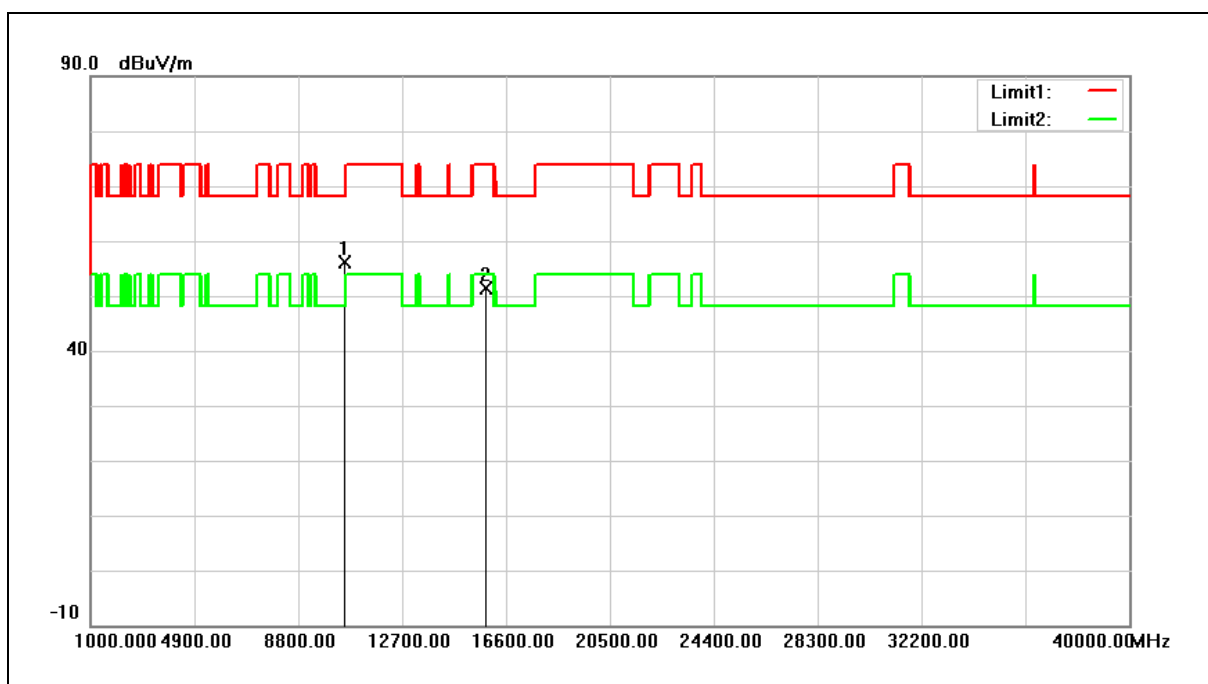
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	33.53	18.71	52.24	68.20	-15.96	peak
2	15840.000	70.74	-18.89	51.85	74.00	-22.15	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5280 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



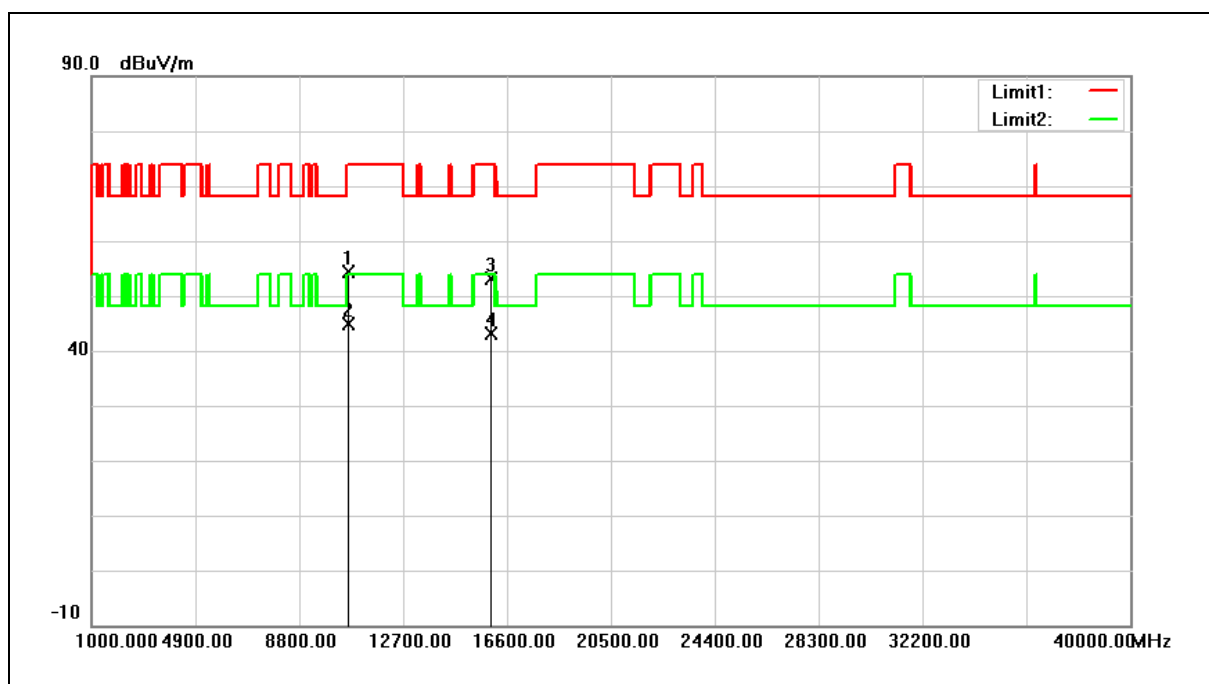
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	37.32	18.71	56.03	68.20	-12.17	peak
2	15840.000	70.36	-18.89	51.47	74.00	-22.53	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5320 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



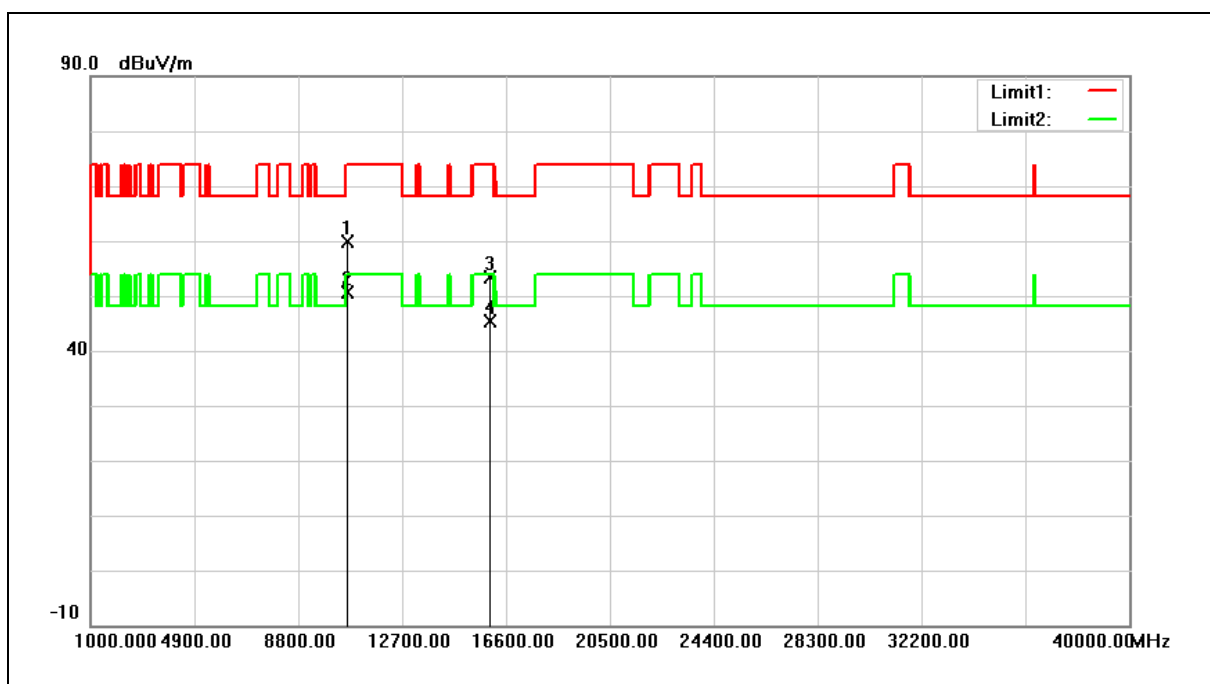
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	35.62	18.79	54.41	74.00	-19.59	peak
2	10640.000	26.03	18.79	44.82	54.00	-9.18	AVG
3	15960.000	72.38	-19.18	53.20	74.00	-20.80	peak
4	15960.000	62.20	-19.18	43.02	54.00	-10.98	AVG

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:	Harmonic		
Frequency:	5320 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



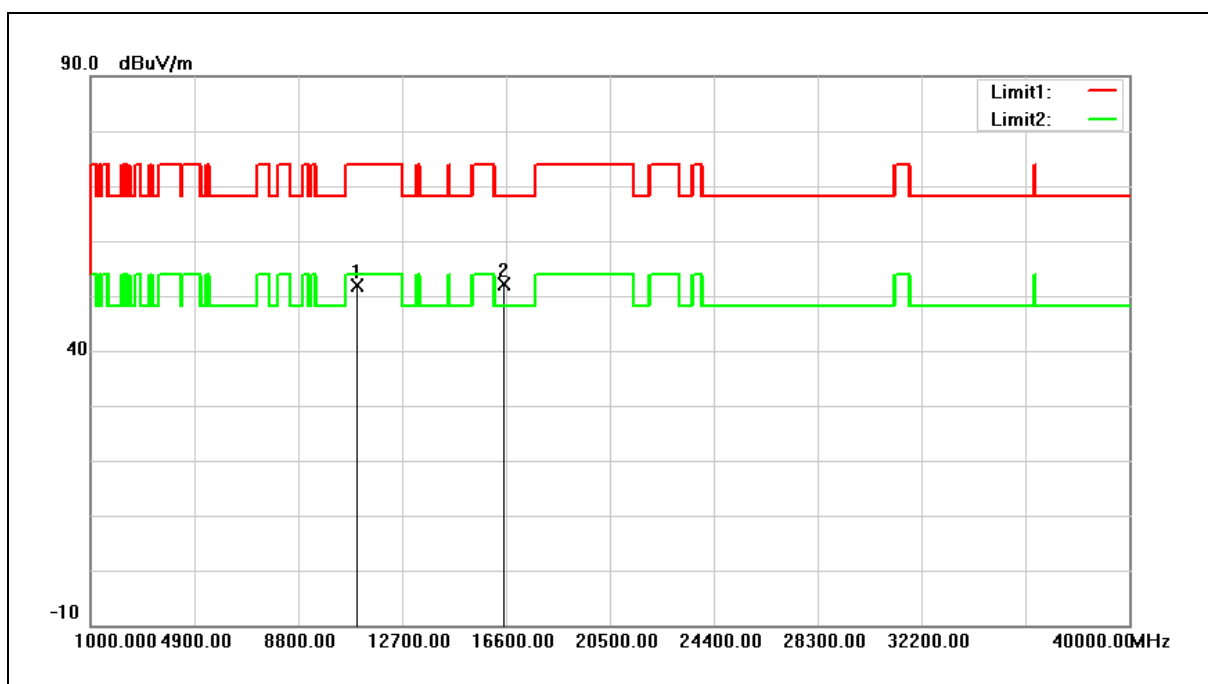
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	41.13	18.79	59.92	74.00	-14.08	peak
2	10640.000	31.80	18.79	50.59	54.00	-3.41	AVG
3	15960.000	72.48	-19.18	53.30	74.00	-20.70	peak
4	15960.000	64.53	-19.18	45.35	54.00	-8.65	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5500 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



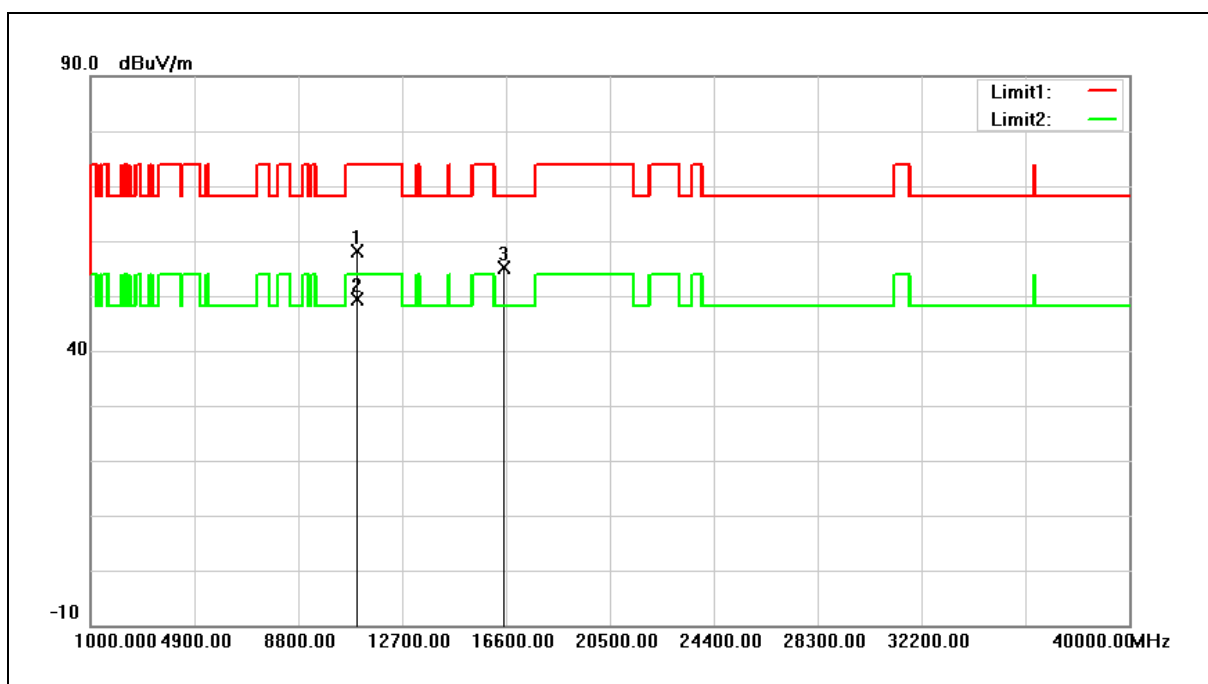
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	32.31	19.61	51.92	74.00	-22.08	peak
2	16500.000	70.00	-17.99	52.01	68.20	-16.19	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5500 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



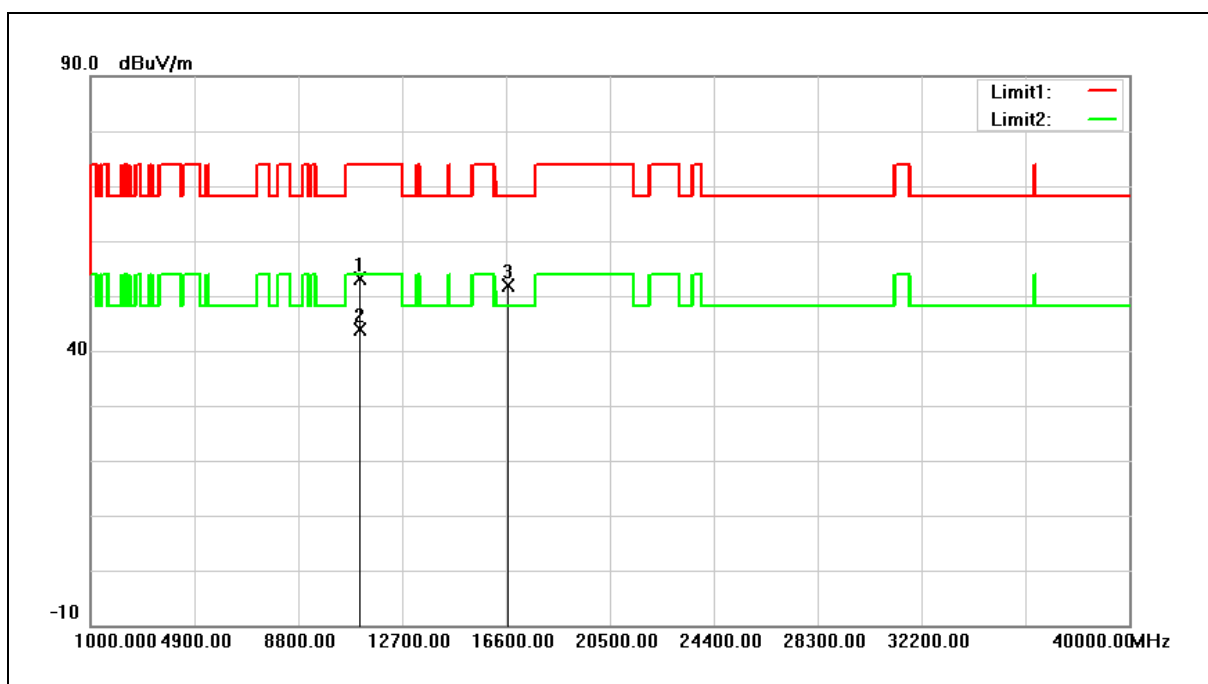
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	38.60	19.61	58.21	74.00	-15.79	peak
2	11000.000	29.78	19.61	49.39	54.00	-4.61	AVG
3	16500.000	73.15	-17.99	55.16	68.20	-13.04	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5560 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



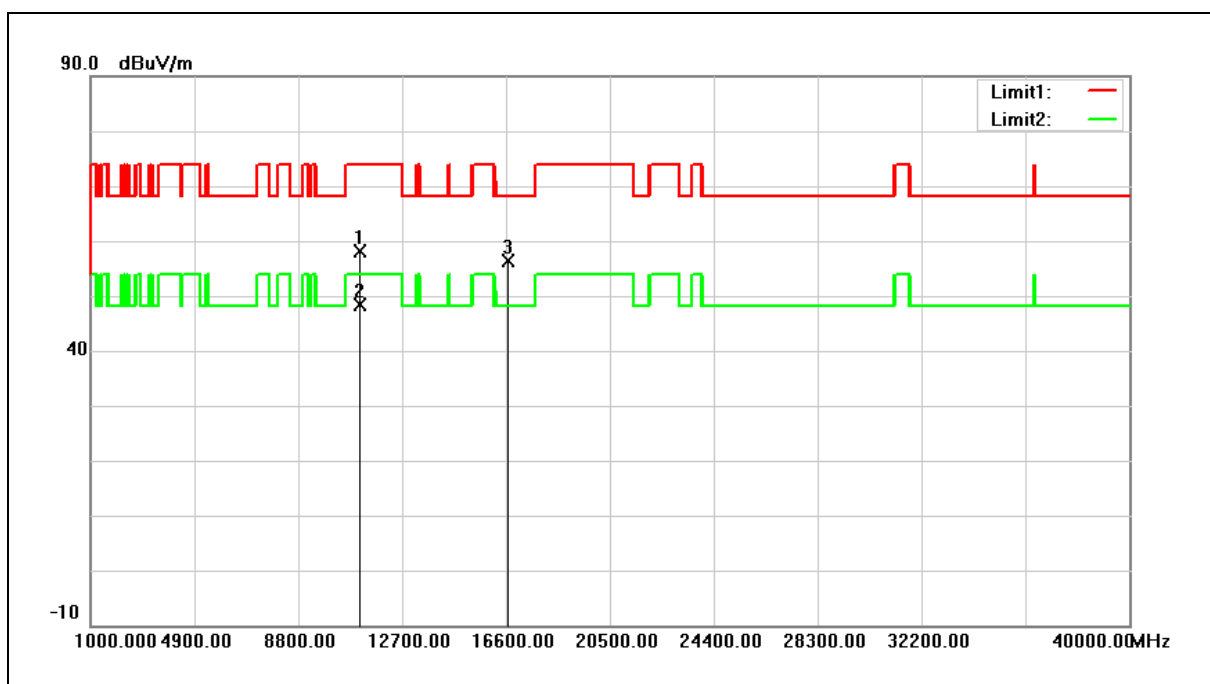
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	33.44	19.64	53.08	74.00	-20.92	peak
2	11120.000	24.15	19.64	43.79	54.00	-10.21	AVG
3	16680.000	69.48	-17.50	51.98	68.20	-16.22	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5560 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



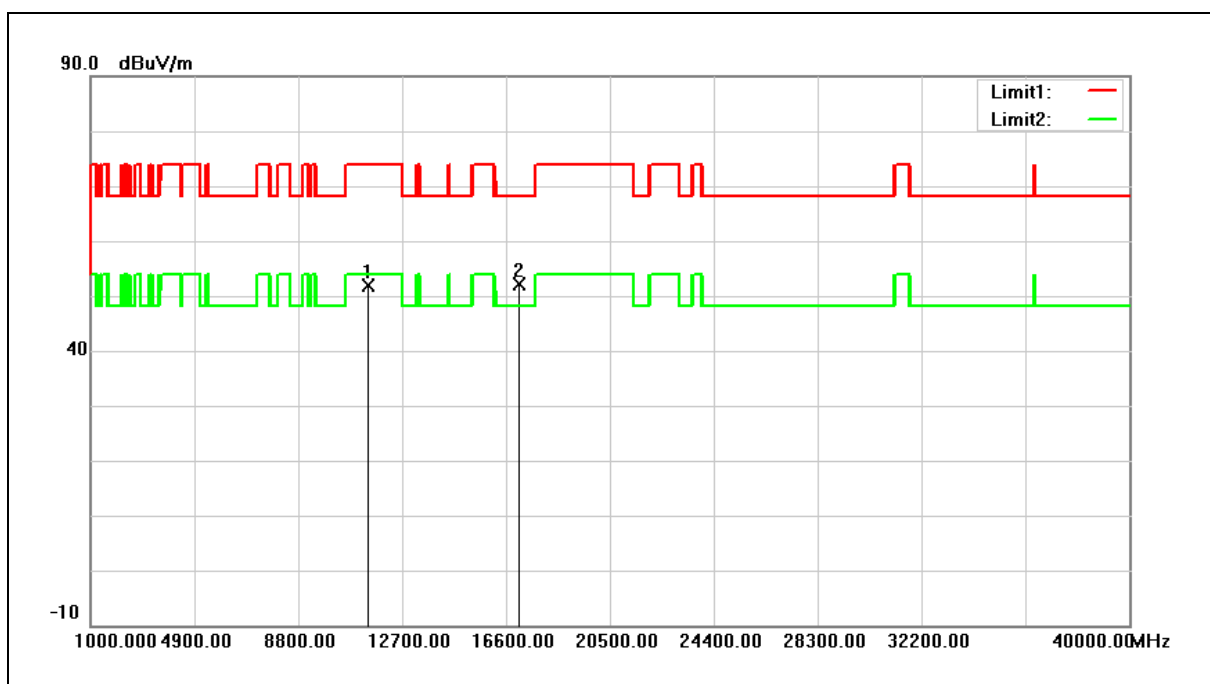
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	38.40	19.64	58.04	74.00	-15.96	peak
2	11120.000	28.84	19.64	48.48	54.00	-5.52	AVG
3	16680.000	73.91	-17.50	56.41	68.20	-11.79	peak

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:	5700 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



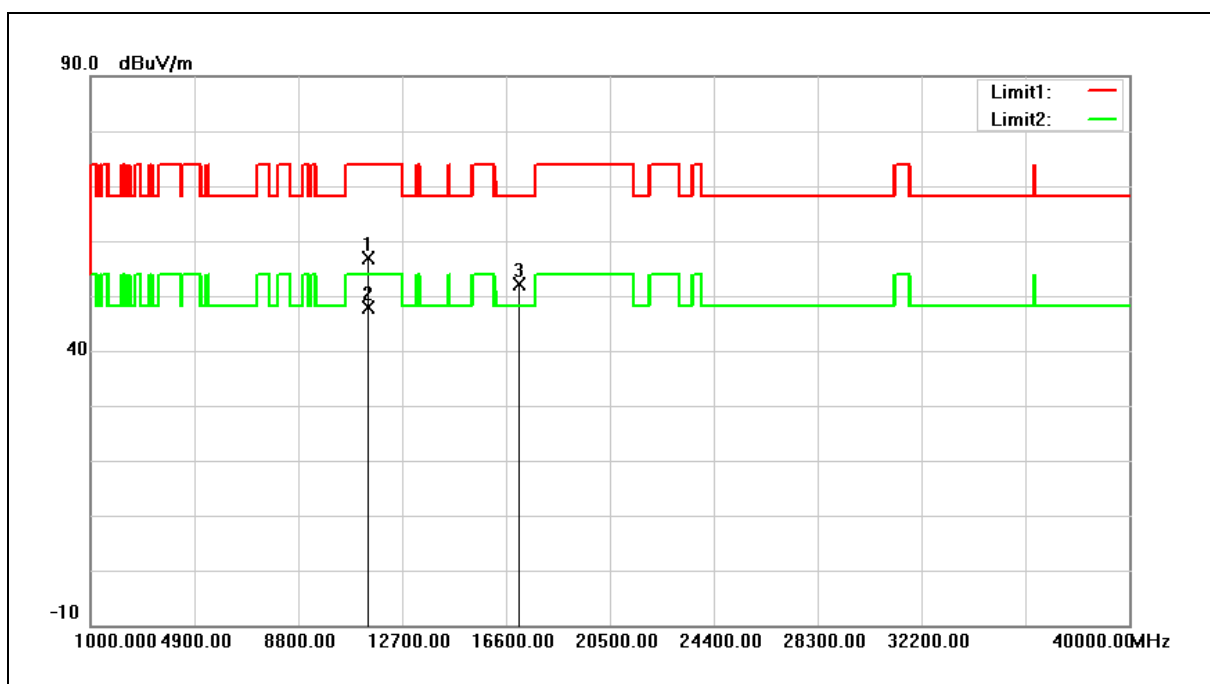
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	31.64	20.12	51.76	74.00	-22.24	peak
2	17100.000	68.66	-16.55	52.11	68.20	-16.09	peak

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:	5700 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



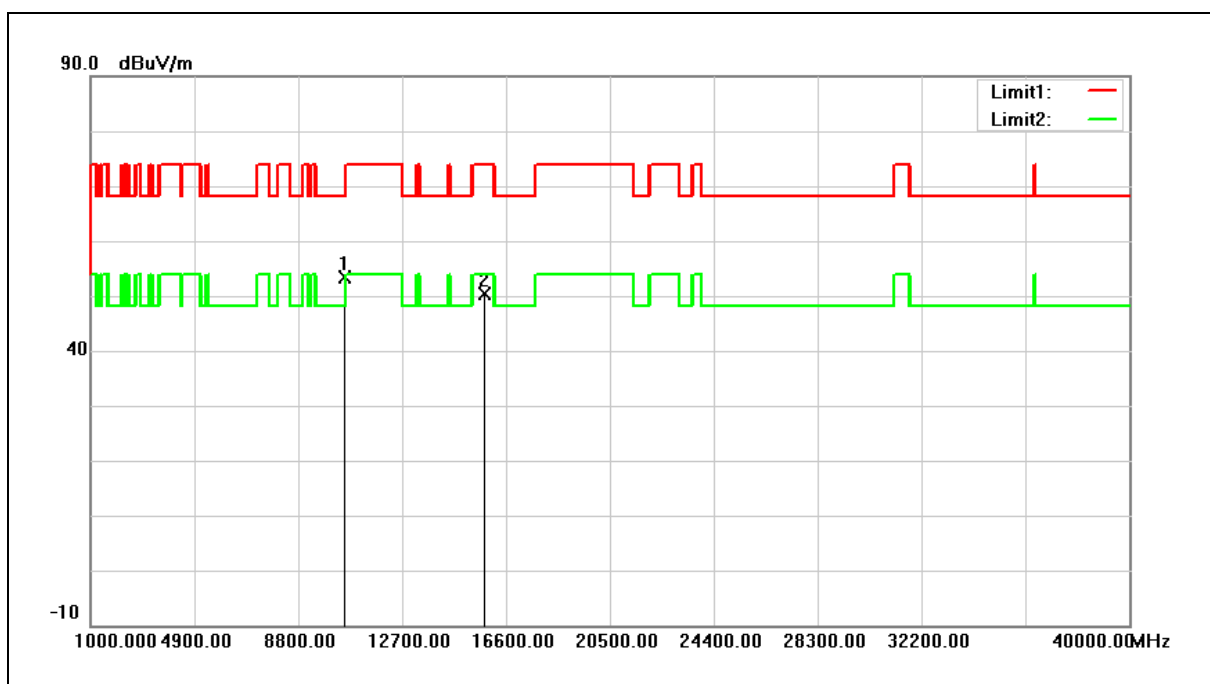
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	36.65	20.12	56.77	74.00	-17.23	peak
2	11400.000	27.83	20.12	47.95	54.00	-6.05	AVG
3	17100.000	68.76	-16.55	52.21	68.20	-15.99	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5260 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



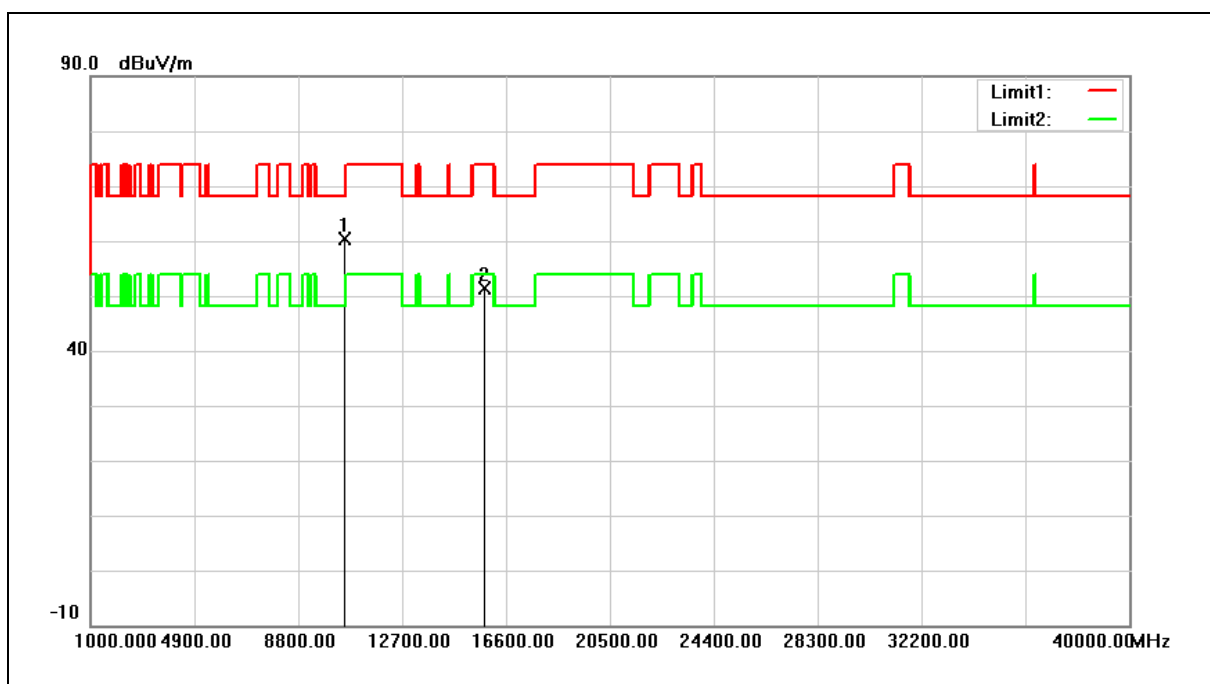
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	34.61	18.71	53.32	68.20	-14.88	peak
2	15780.000	69.18	-18.75	50.43	74.00	-23.57	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5260 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



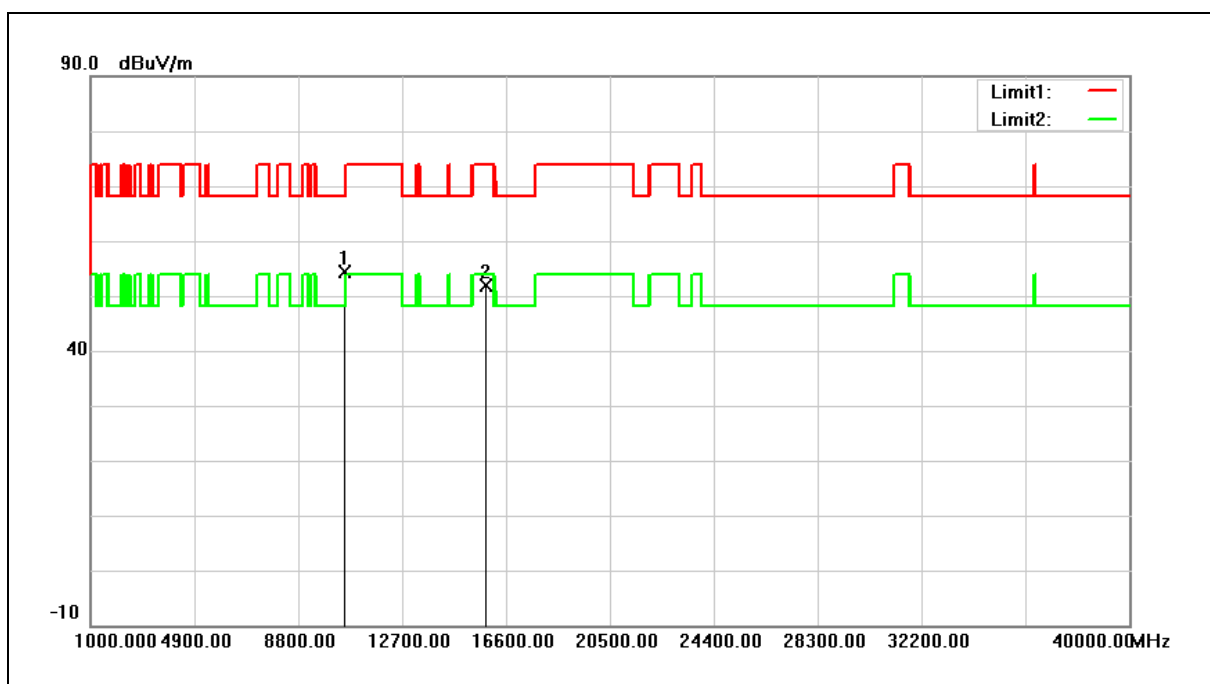
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	41.69	18.71	60.40	68.20	-7.80	peak
2	15780.000	70.22	-18.75	51.47	74.00	-22.53	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5280 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



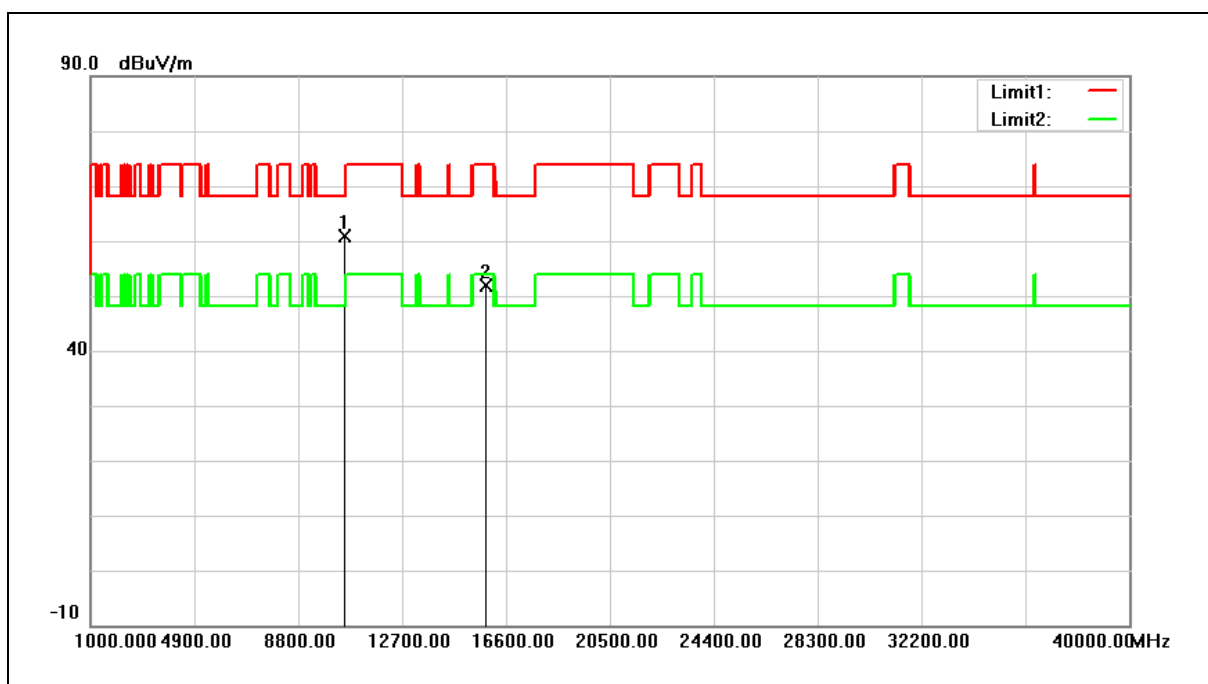
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	35.55	18.71	54.26	68.20	-13.94	peak
2	15840.000	70.83	-18.89	51.94	74.00	-22.06	peak

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:	5280 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



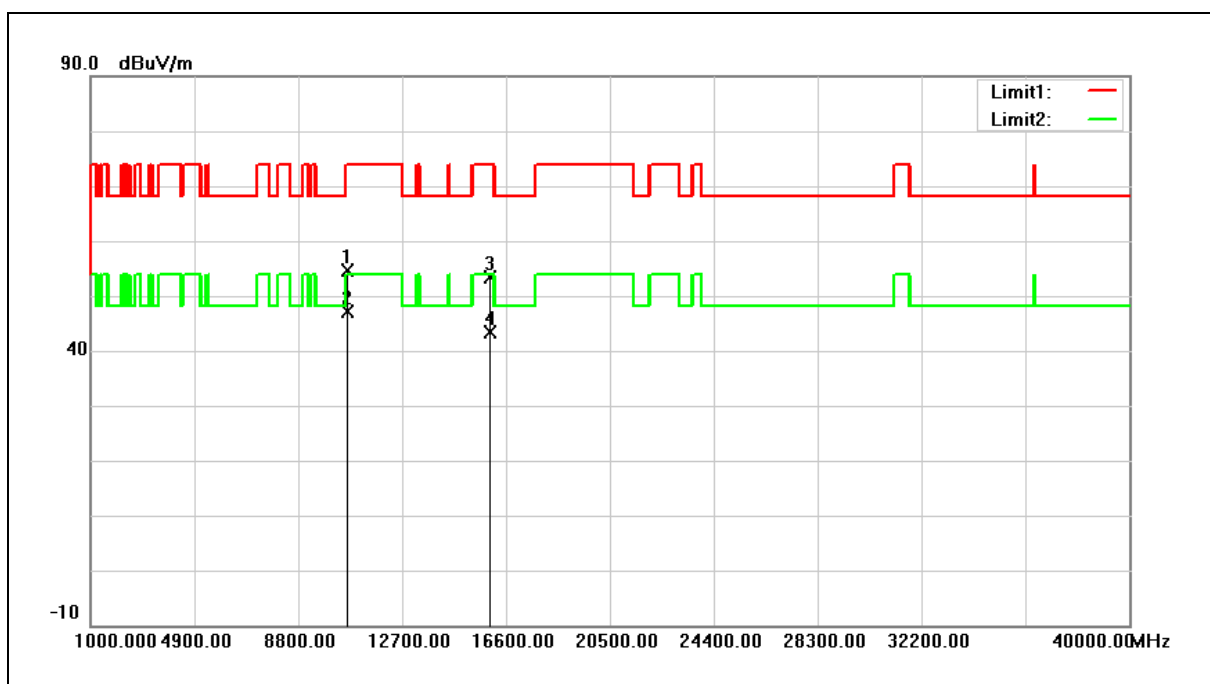
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	42.19	18.71	60.90	68.20	-7.30	peak
2	15840.000	70.70	-18.89	51.81	74.00	-22.19	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5320 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



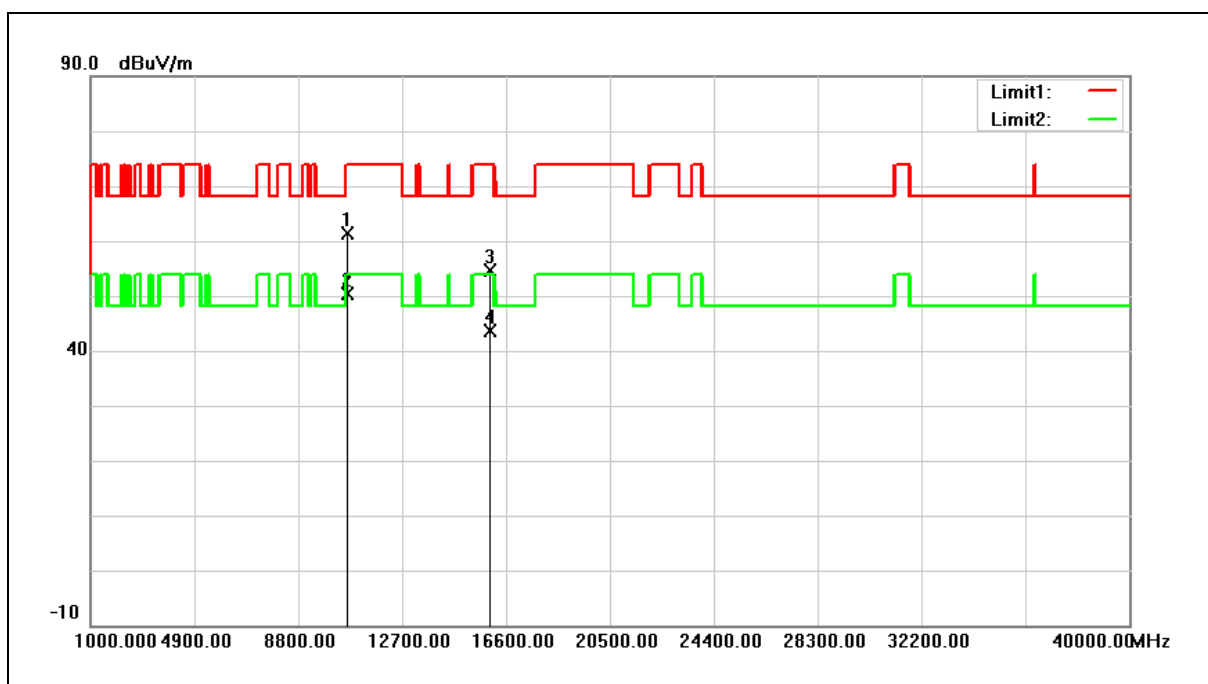
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	35.73	18.79	54.52	74.00	-19.48	peak
2	10640.000	28.38	18.79	47.17	54.00	-6.83	AVG
3	15960.000	72.58	-19.18	53.40	74.00	-20.60	peak
4	15960.000	62.64	-19.18	43.46	54.00	-10.54	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5320 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



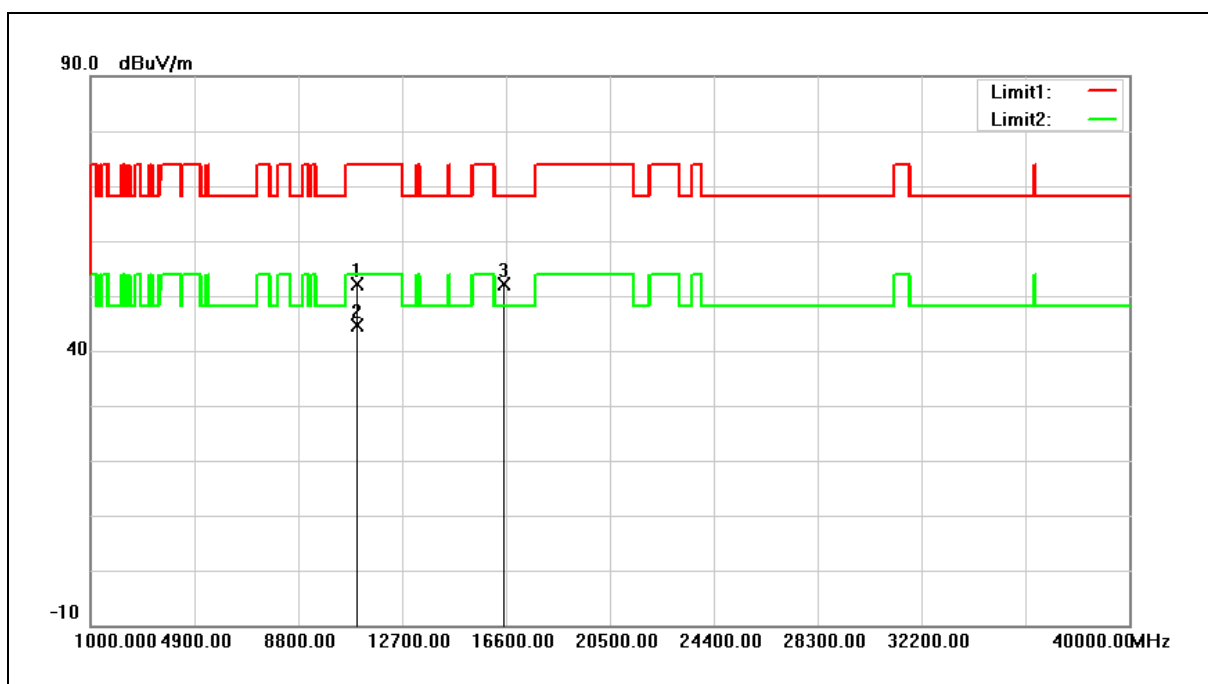
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	42.58	18.79	61.37	74.00	-12.63	peak
2	10640.000	31.55	18.79	50.34	54.00	-3.66	AVG
3	15960.000	73.87	-19.18	54.69	74.00	-19.31	peak
4	15960.000	62.88	-19.18	43.70	54.00	-10.30	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5500 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



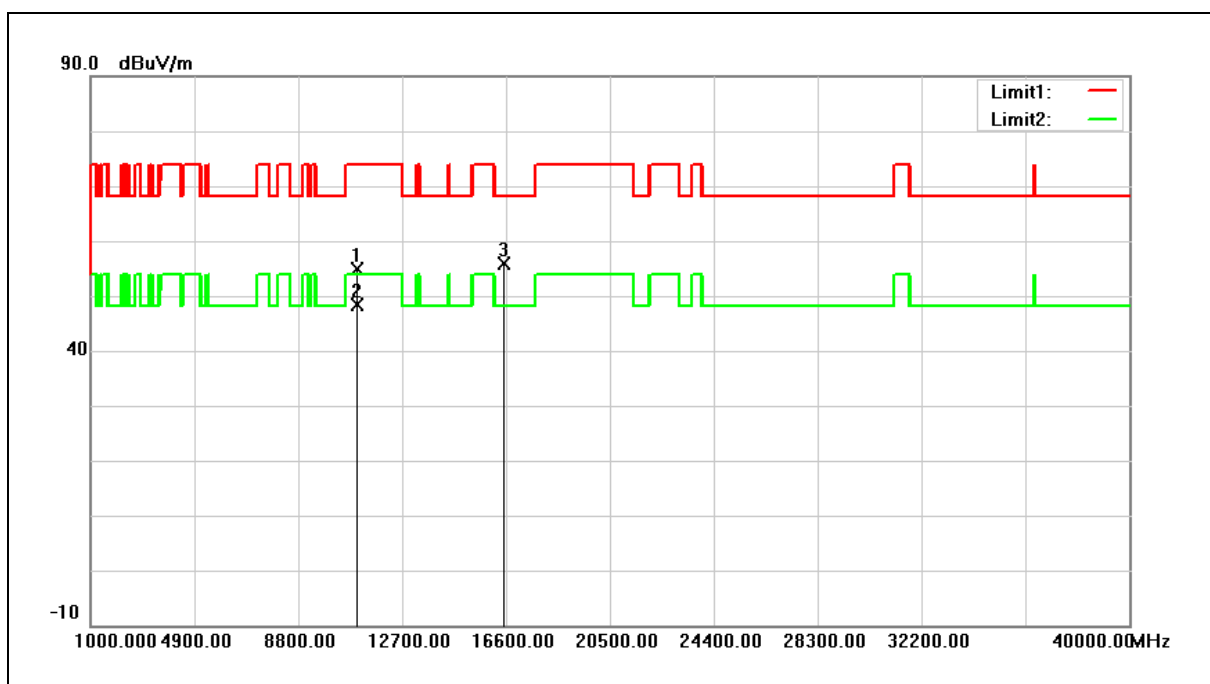
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	32.52	19.61	52.13	74.00	-21.87	peak
2	11000.000	24.99	19.61	44.60	54.00	-9.40	AVG
3	16500.000	70.00	-17.99	52.01	68.20	-16.19	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5500 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



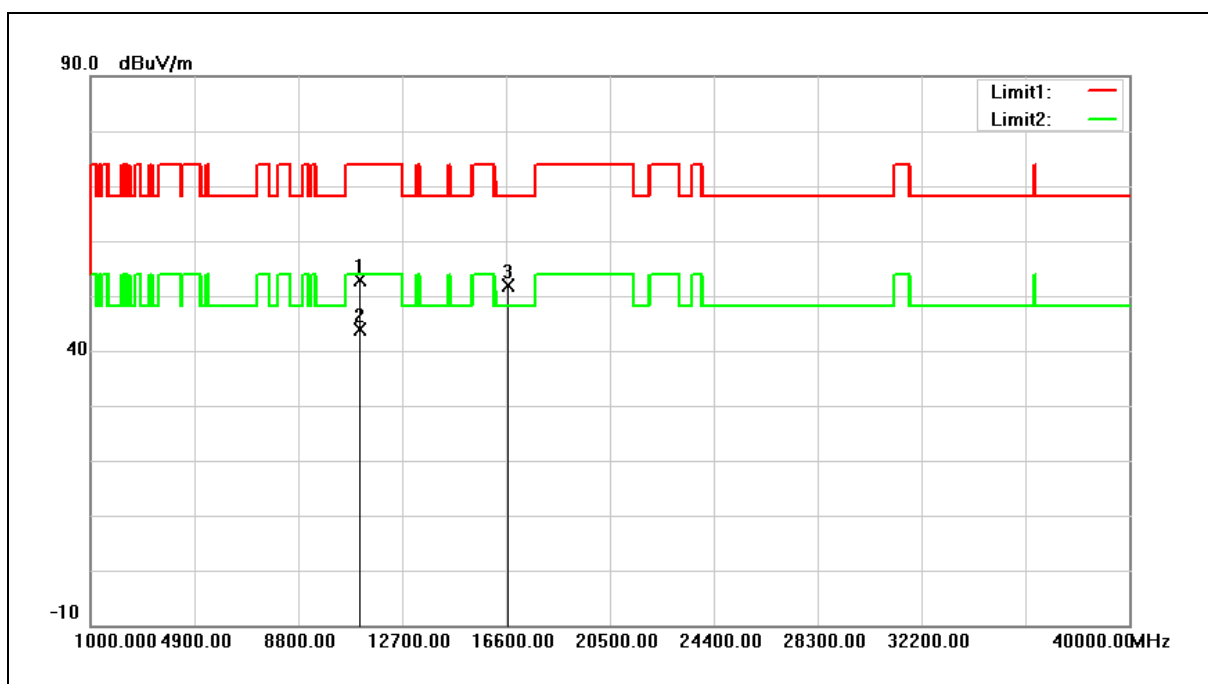
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	35.25	19.61	54.86	74.00	-19.14	peak
2	11000.000	28.85	19.61	48.46	54.00	-5.54	AVG
3	16500.000	73.84	-17.99	55.85	68.20	-12.35	peak

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:	5560 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



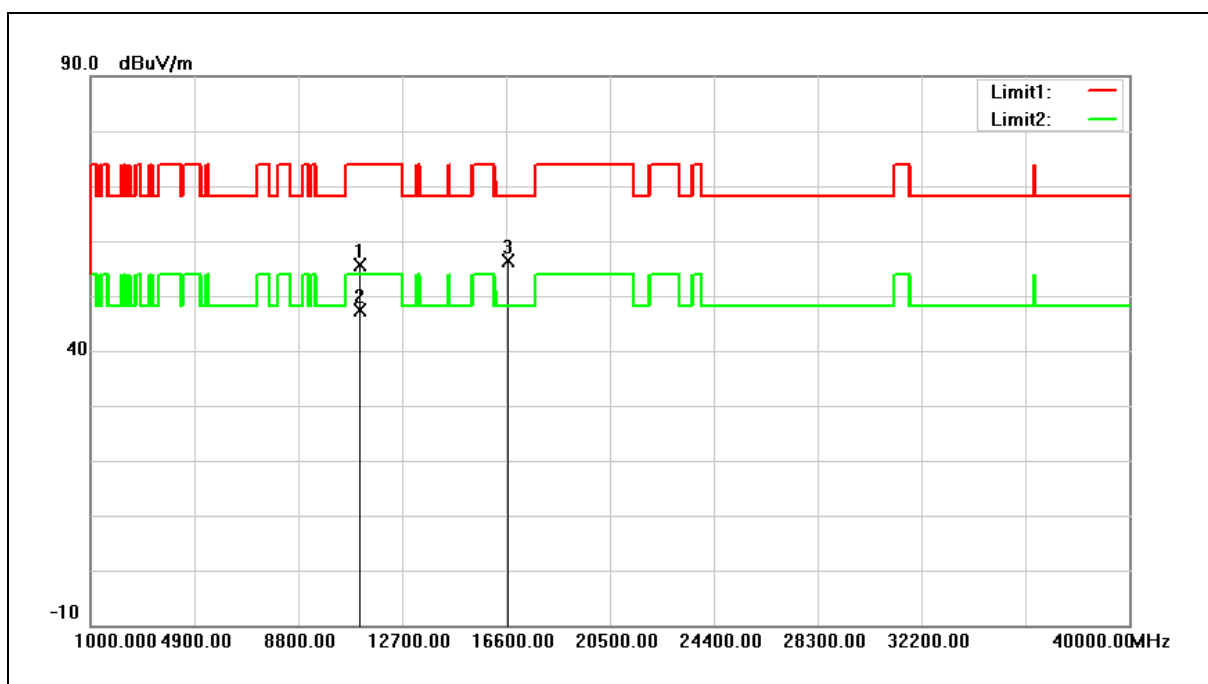
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	33.29	19.64	52.93	74.00	-21.07	peak
2	11120.000	24.24	19.64	43.88	54.00	-10.12	AVG
3	16680.000	69.44	-17.50	51.94	68.20	-16.26	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5560 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



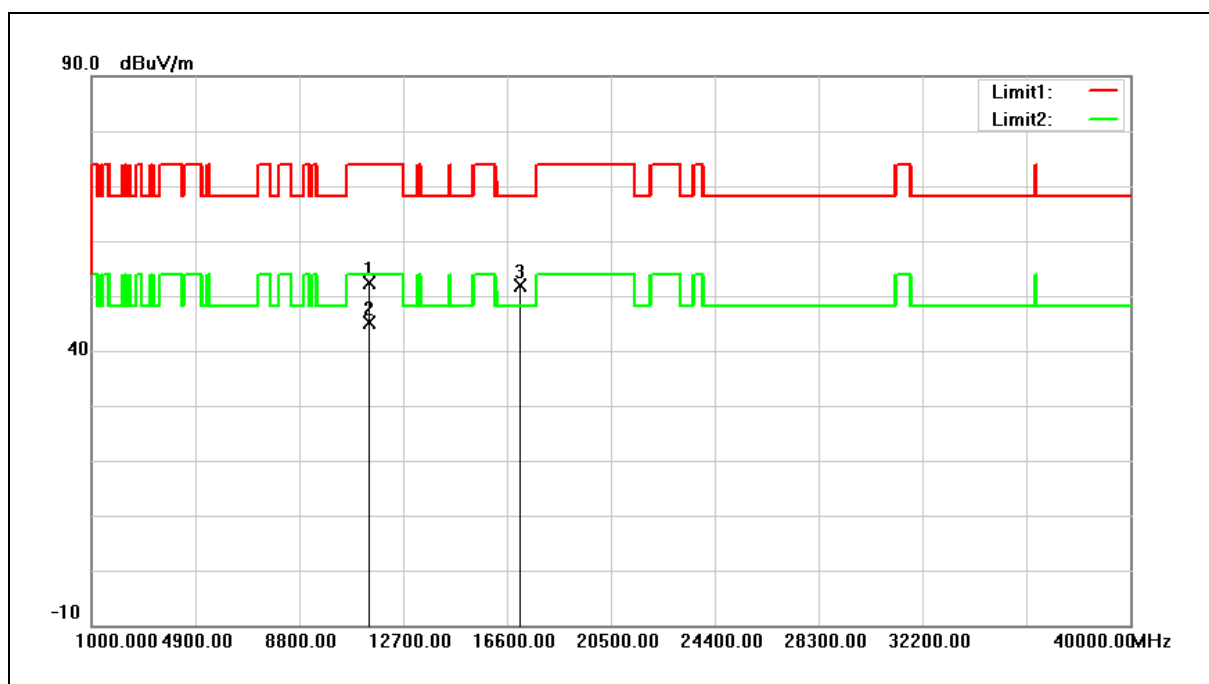
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	35.98	19.64	55.62	74.00	-18.38	peak
2	11120.000	27.83	19.64	47.47	54.00	-6.53	AVG
3	16680.000	73.84	-17.50	56.34	68.20	-11.86	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5700 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



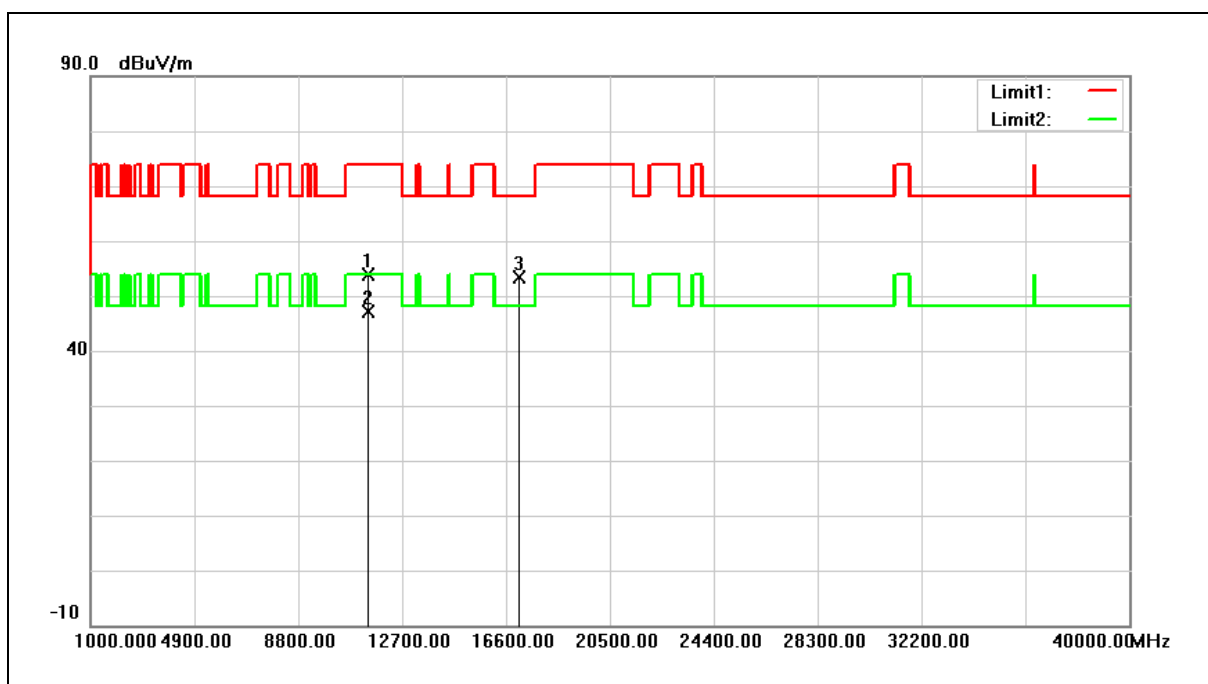
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	32.35	20.12	52.47	74.00	-21.53	peak
2	11400.000	25.09	20.12	45.21	54.00	-8.79	AVG
3	17100.000	68.55	-16.55	52.00	68.20	-16.20	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5700 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



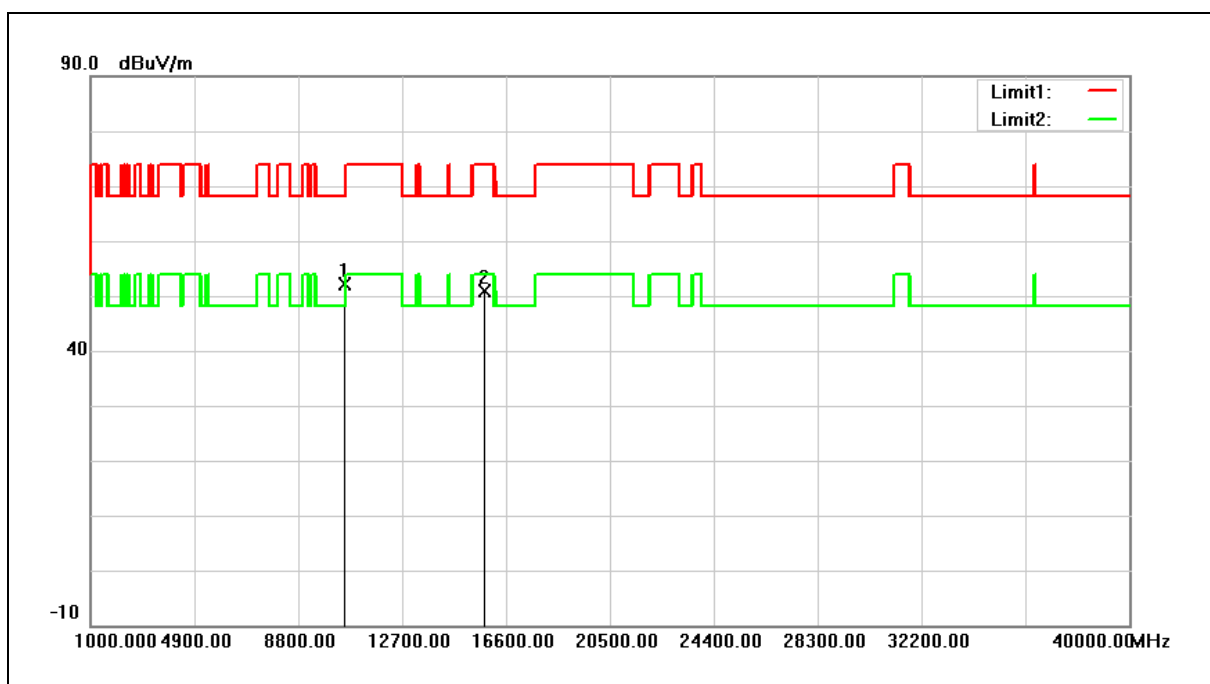
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	33.74	20.12	53.86	74.00	-20.14	peak
2	11400.000	27.09	20.12	47.21	54.00	-6.79	AVG
3	17100.000	69.91	-16.55	53.36	68.20	-14.84	peak

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:	5270 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



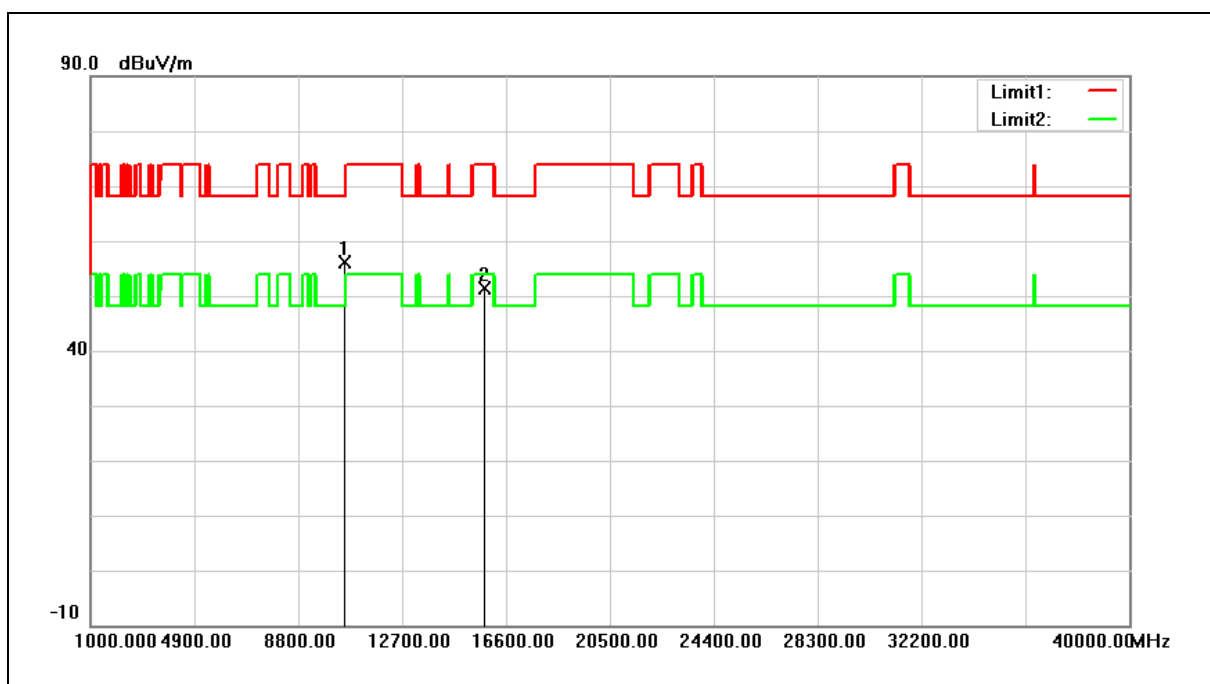
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	33.47	18.71	52.18	68.20	-16.02	peak
2	15810.000	69.82	-18.82	51.00	74.00	-23.00	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5270 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



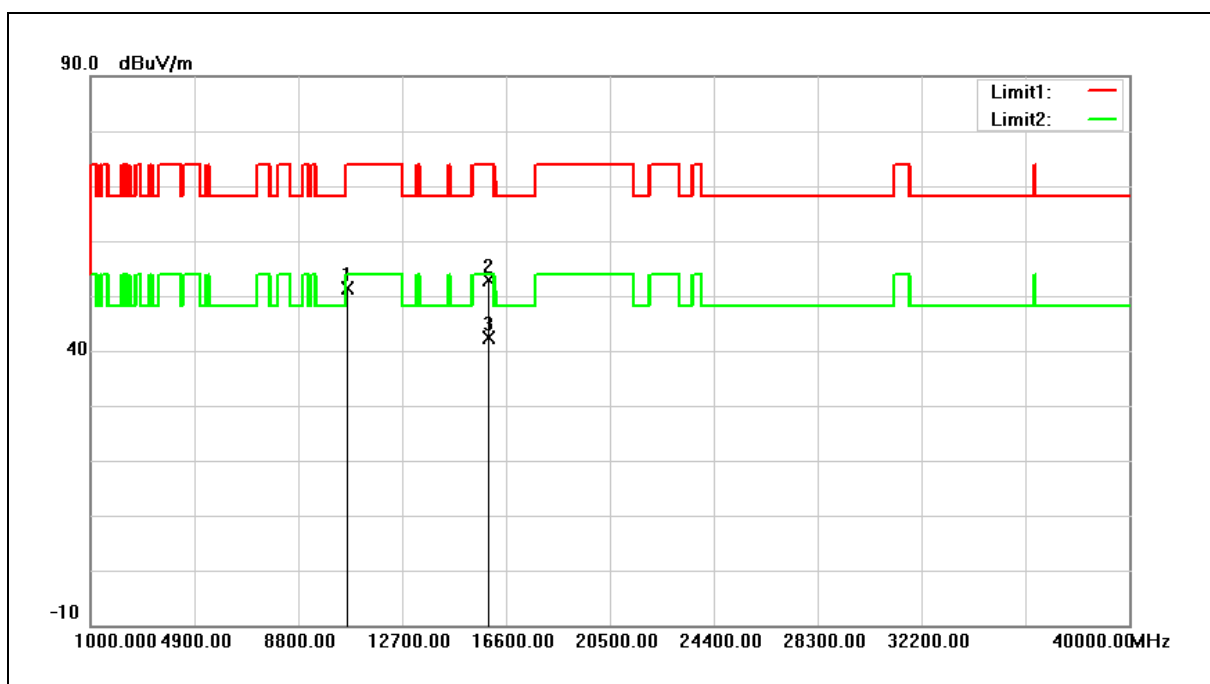
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	37.49	18.71	56.20	68.20	-12.00	peak
2	15810.000	70.12	-18.82	51.30	74.00	-22.70	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5310 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



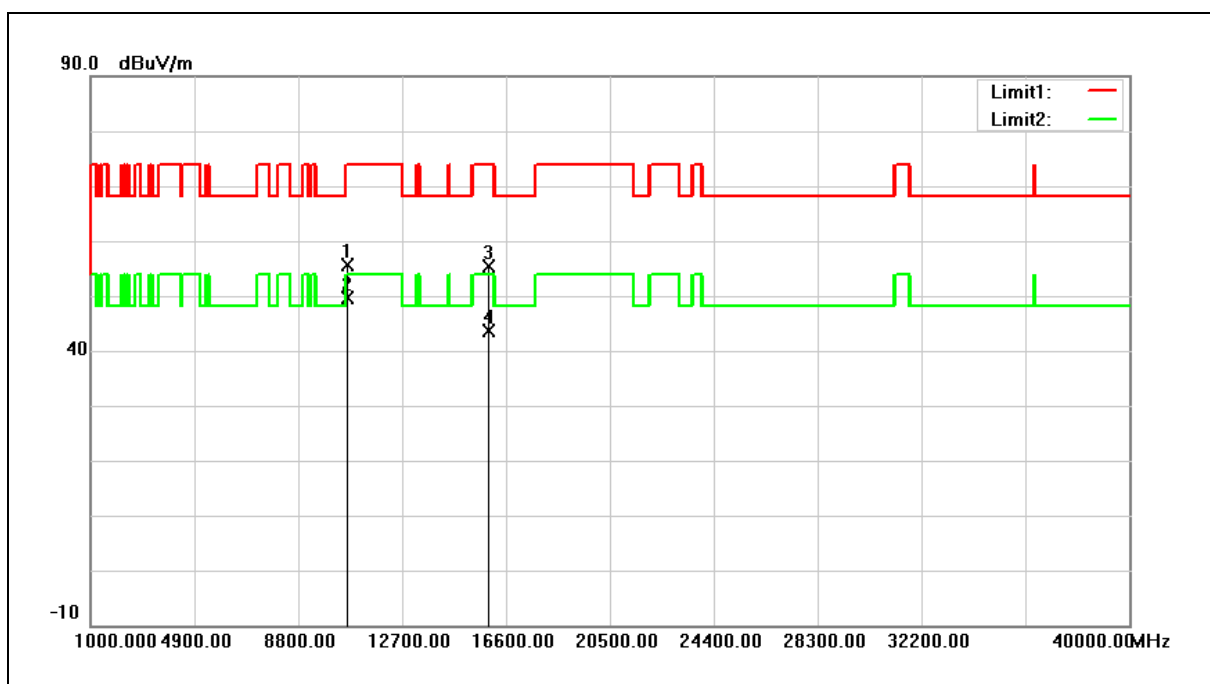
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	32.60	18.75	51.35	74.00	-22.65	peak
2	15930.000	71.96	-19.10	52.86	74.00	-21.14	peak
3	15930.000	61.54	-19.10	42.44	54.00	-11.56	AVG

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:	Harmonic		
Frequency:	5310 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



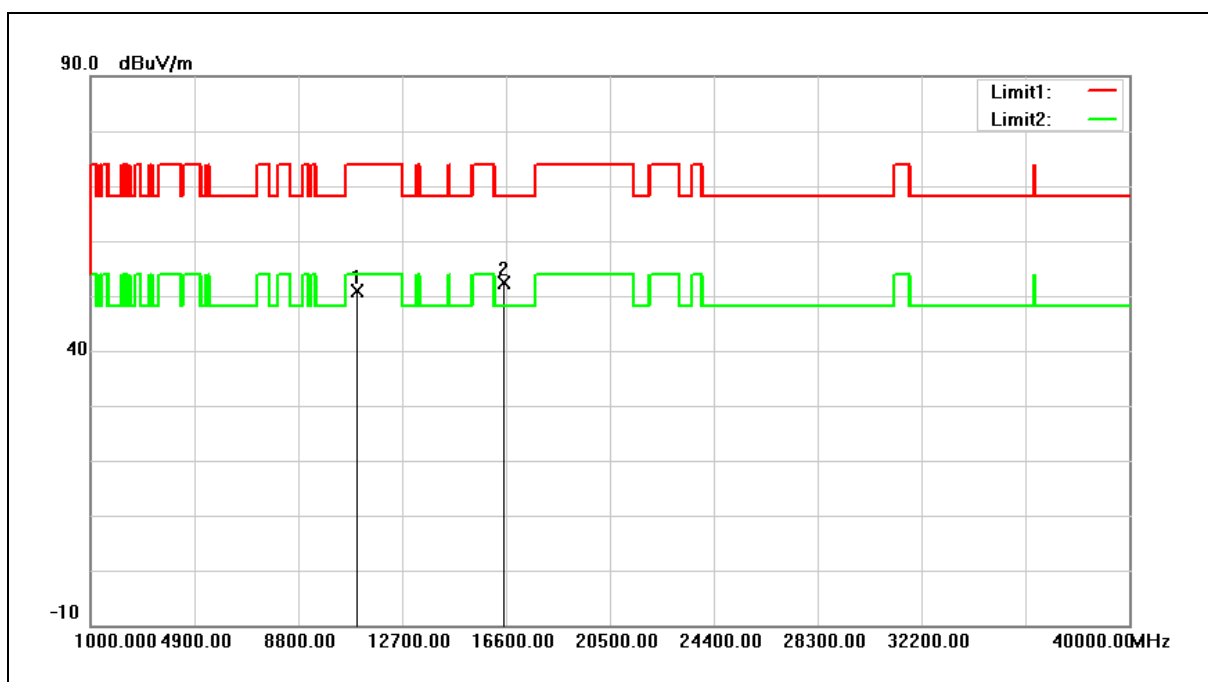
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	36.83	18.75	55.58	74.00	-18.42	peak
2	10620.000	30.82	18.75	49.57	54.00	-4.43	AVG
3	15930.000	74.40	-19.10	55.30	74.00	-18.70	peak
4	15930.000	62.73	-19.10	43.63	54.00	-10.37	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5510 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



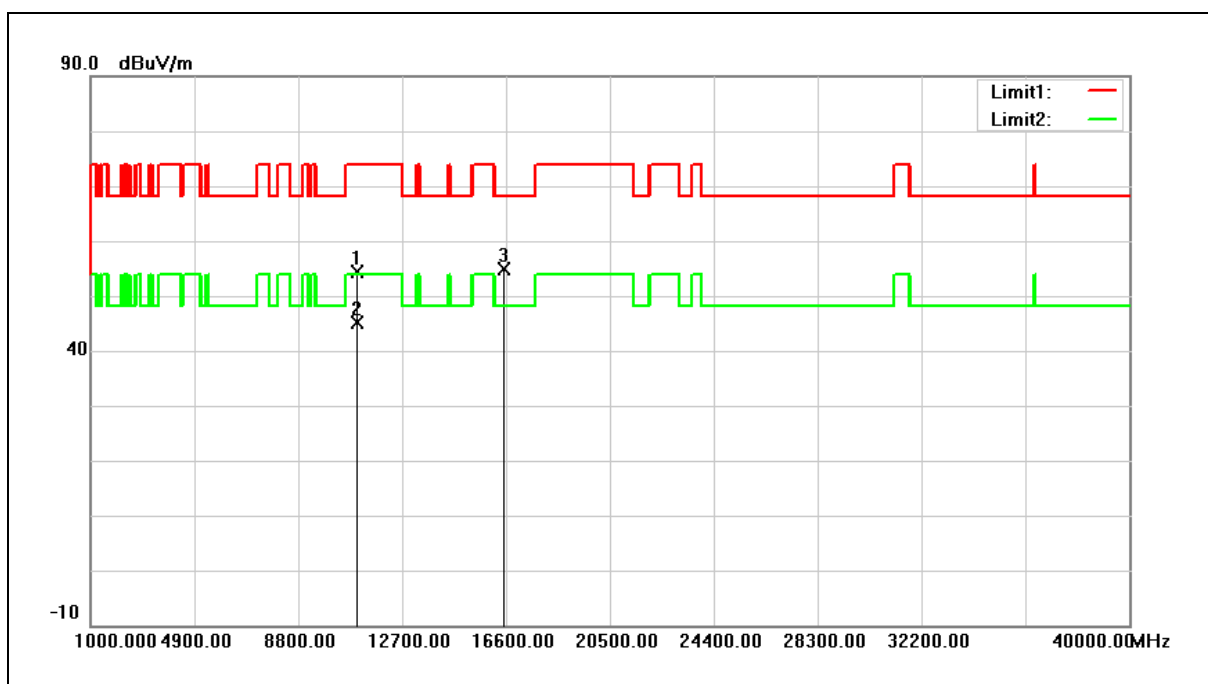
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	31.33	19.61	50.94	74.00	-23.06	peak
2	16530.000	70.22	-17.91	52.31	68.20	-15.89	peak

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:	Harmonic		
Frequency:	5510 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



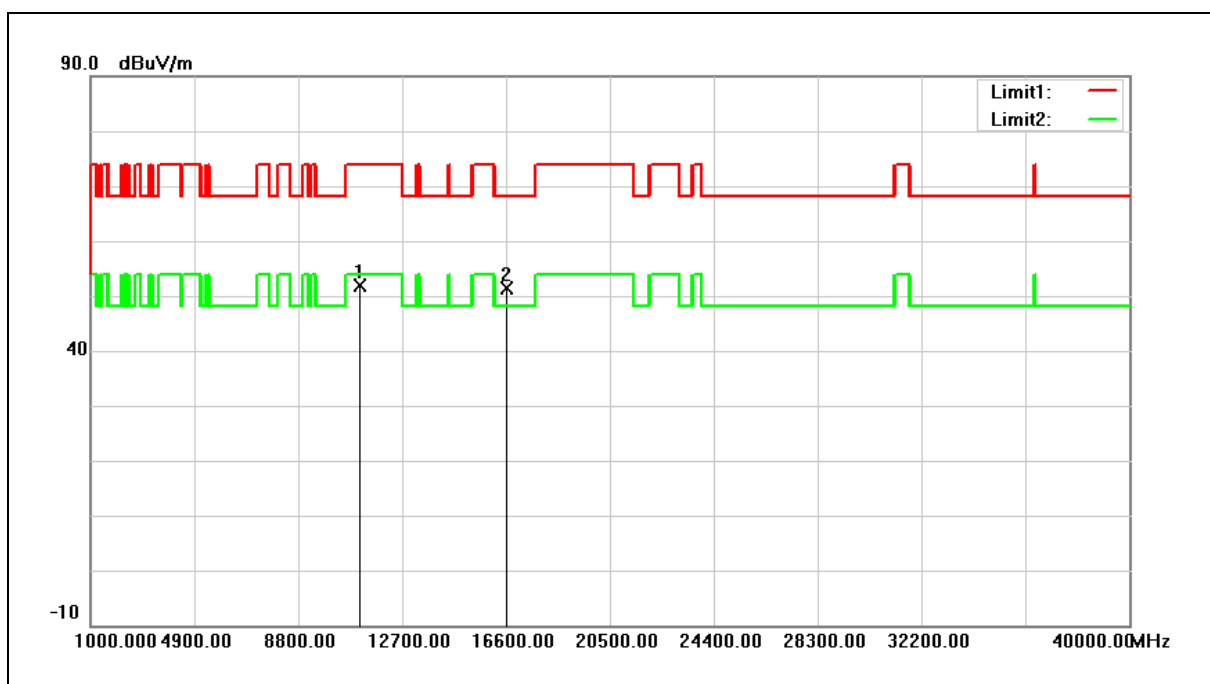
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	34.85	19.61	54.46	74.00	-19.54	peak
2	11020.000	25.61	19.61	45.22	54.00	-8.78	AVG
3	16530.000	72.71	-17.91	54.80	68.20	-13.40	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5550 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



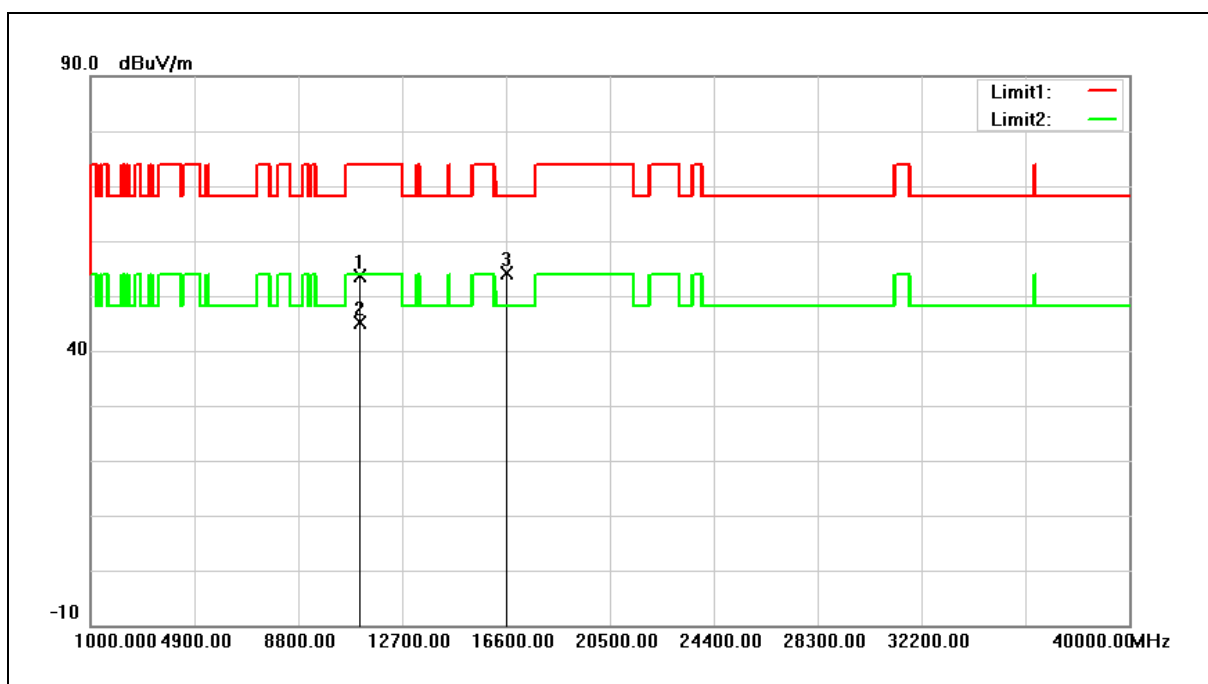
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11100.000	32.19	19.63	51.82	74.00	-22.18	peak
2	16650.000	68.58	-17.30	51.28	68.20	-16.92	peak

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:	5550 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



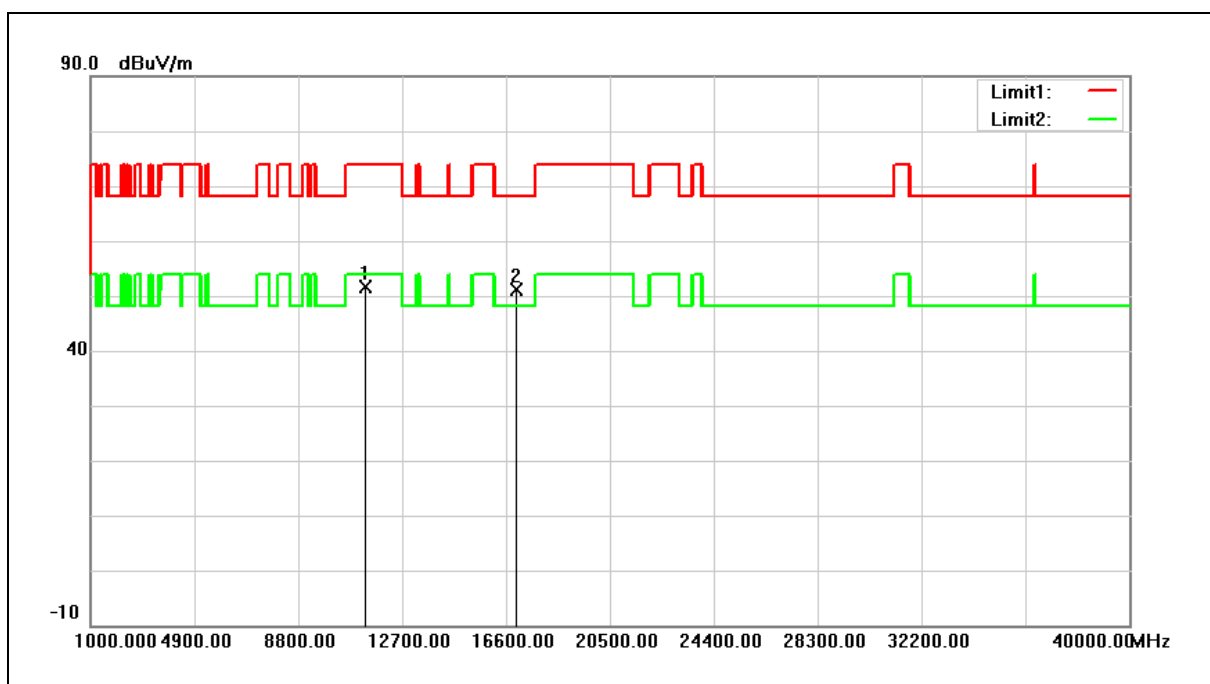
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11100.000	34.02	19.63	53.65	74.00	-20.35	peak
2	11100.000	25.38	19.63	45.01	54.00	-8.99	AVG
3	16650.000	71.68	-17.58	54.10	68.20	-14.10	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5670 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



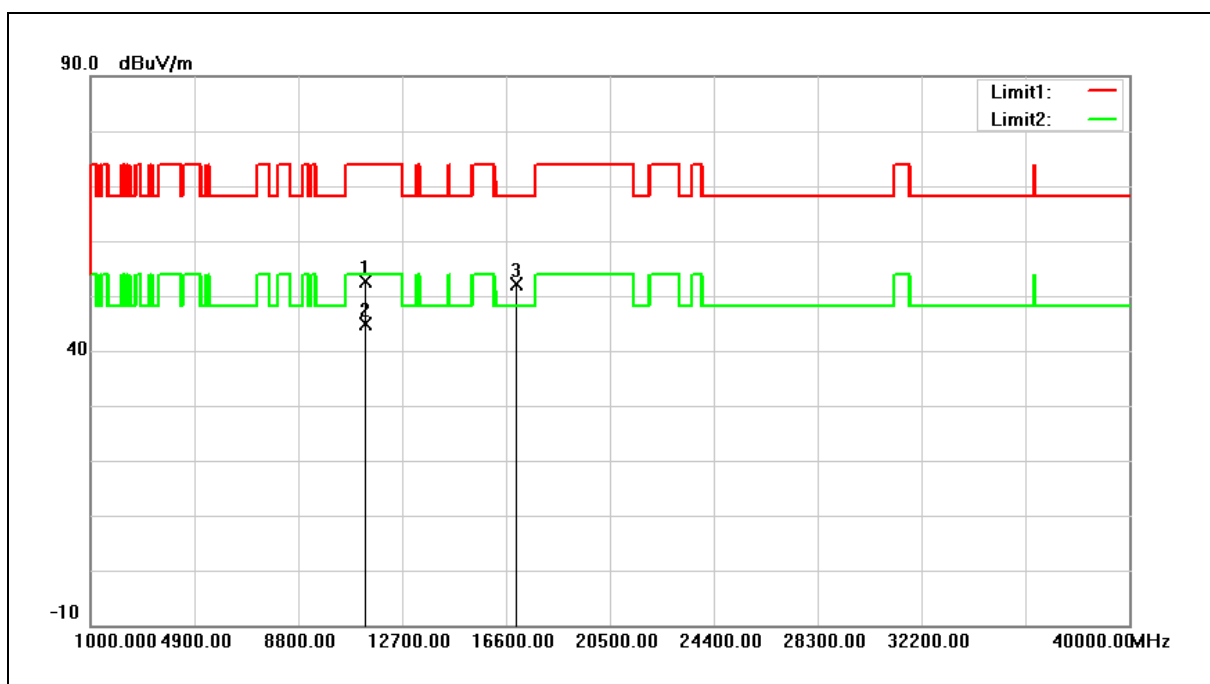
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	31.66	19.92	51.58	74.00	-22.42	peak
2	17010.000	67.84	-16.62	51.22	68.20	-16.98	peak

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:	5670 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



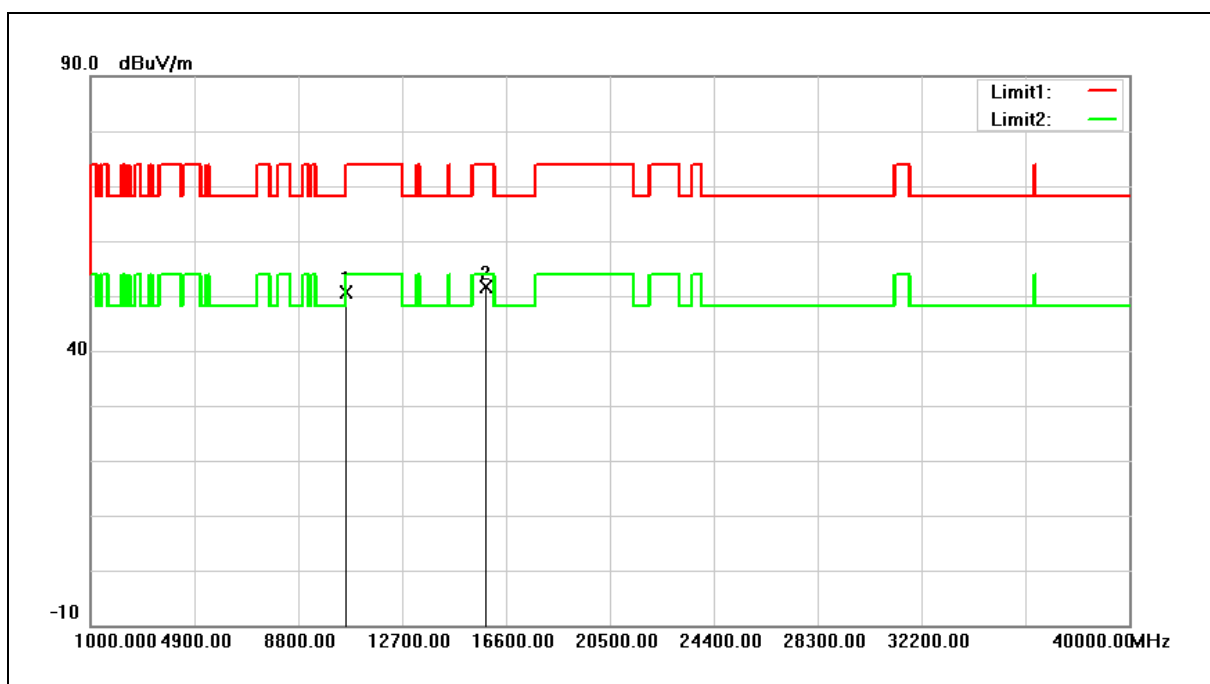
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	32.80	19.92	52.72	74.00	-21.28	peak
2	11340.000	24.89	19.92	44.81	54.00	-9.19	AVG
3	17010.000	68.86	-16.62	52.24	68.20	-15.96	peak

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:	5290 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Horizontal		



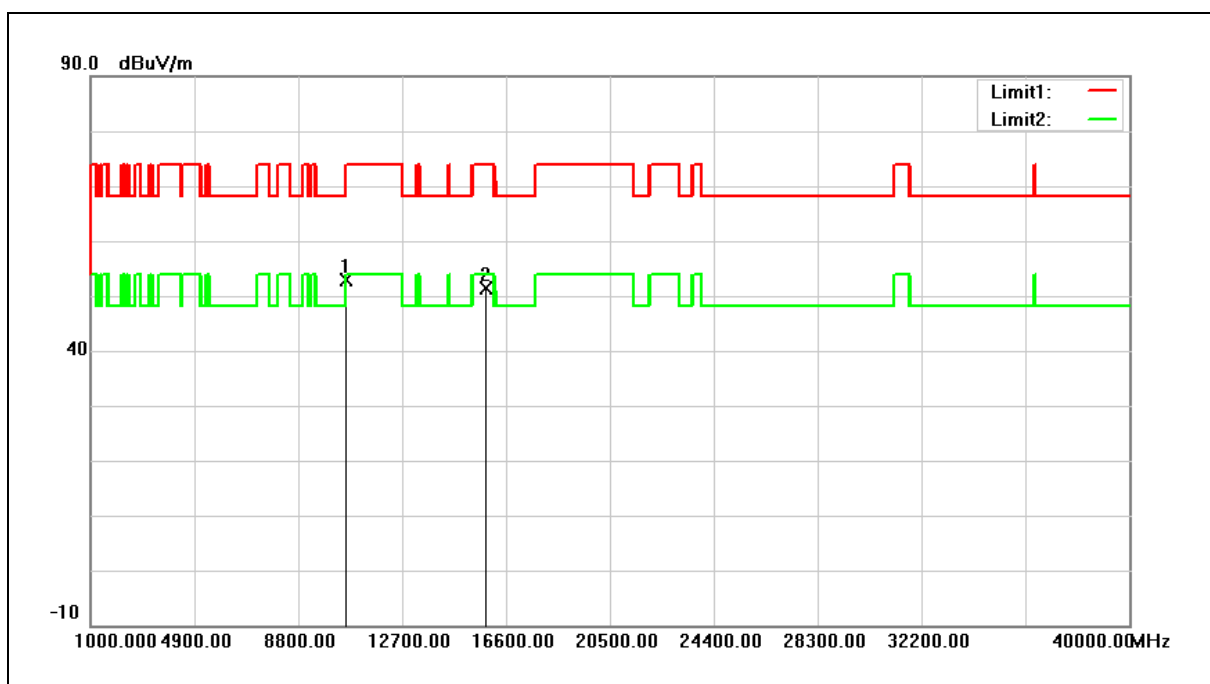
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	31.88	18.71	50.59	68.20	-17.61	peak
2	15870.000	70.66	-18.96	51.70	74.00	-22.30	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5290 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Vertical		



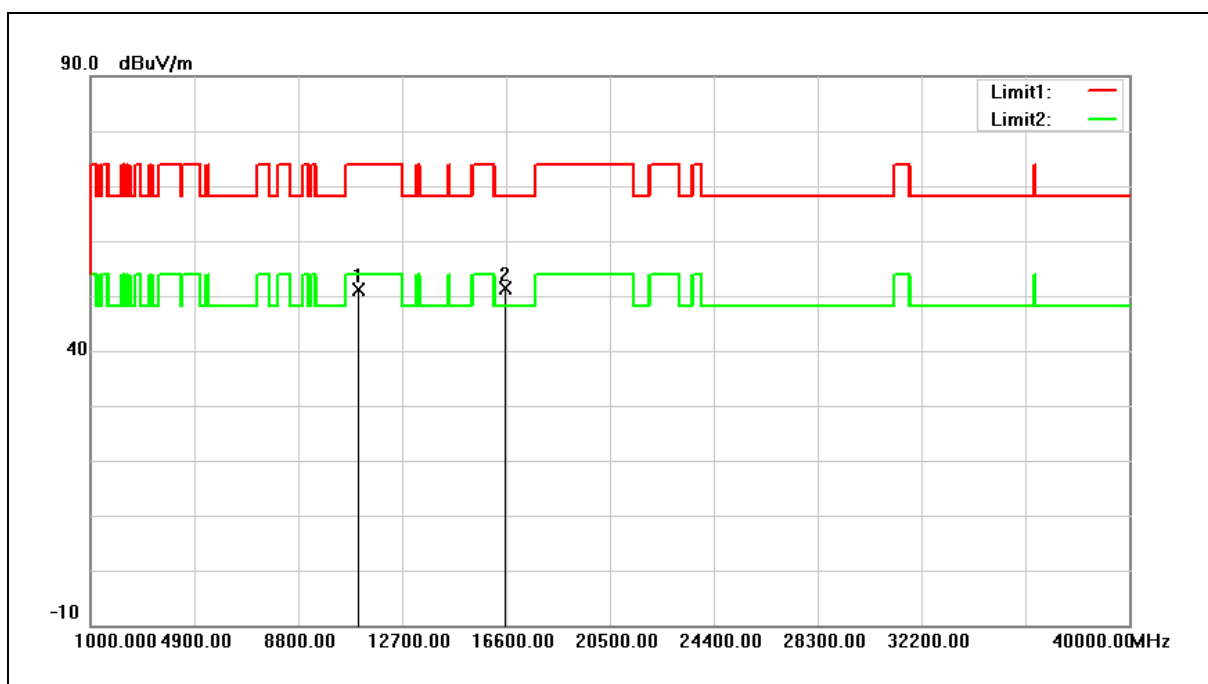
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	34.13	18.71	52.84	68.20	-15.36	peak
2	15870.000	70.46	-18.96	51.50	74.00	-22.50	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5530 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Horizontal		



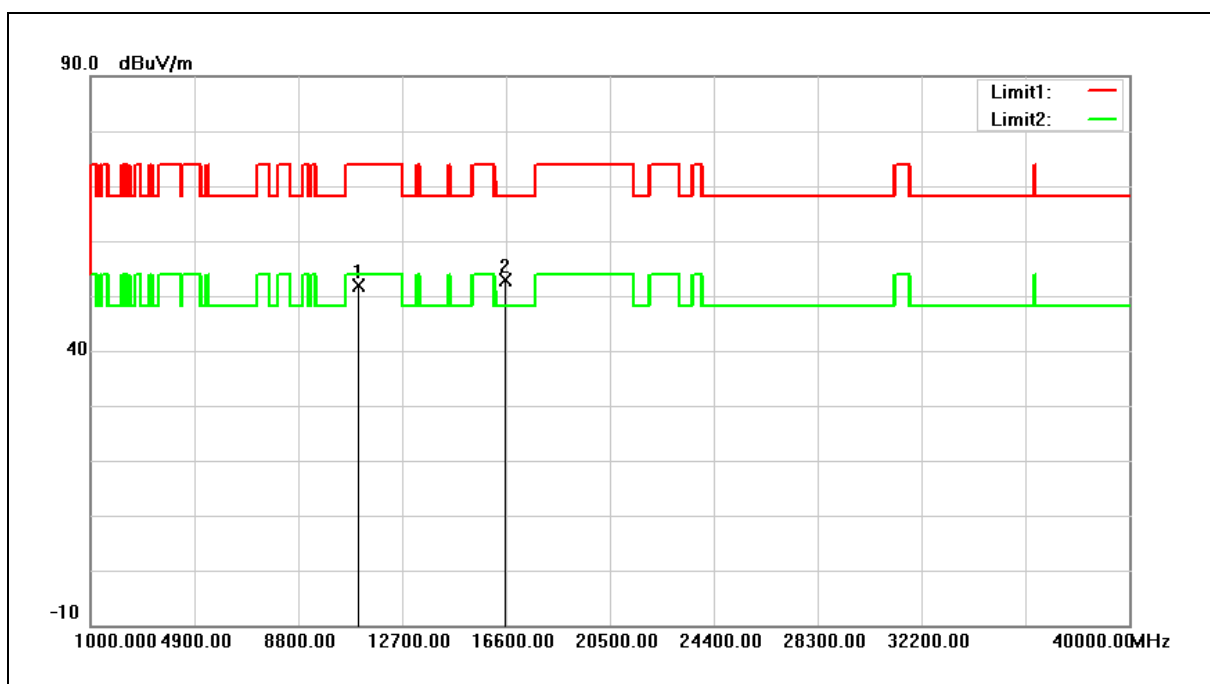
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	31.61	19.62	51.23	74.00	-22.77	peak
2	16590.000	69.23	-17.75	51.48	68.20	-16.72	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5530 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Vertical		



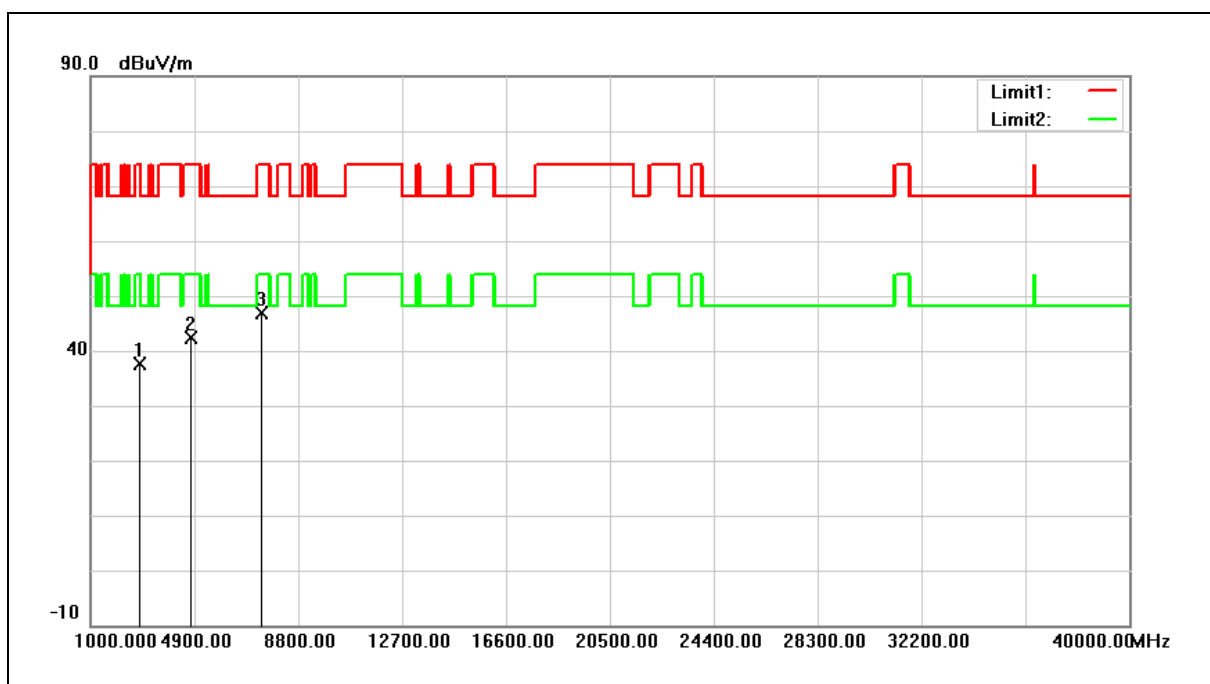
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	32.36	19.62	51.98	74.00	-22.02	peak
2	16590.000	70.60	-17.75	52.85	68.20	-15.35	peak

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		
Mode:	Simultaneous Transmitting (WLAN 2.4 GHz + 5 GHz)		
Description:	Horizontal		



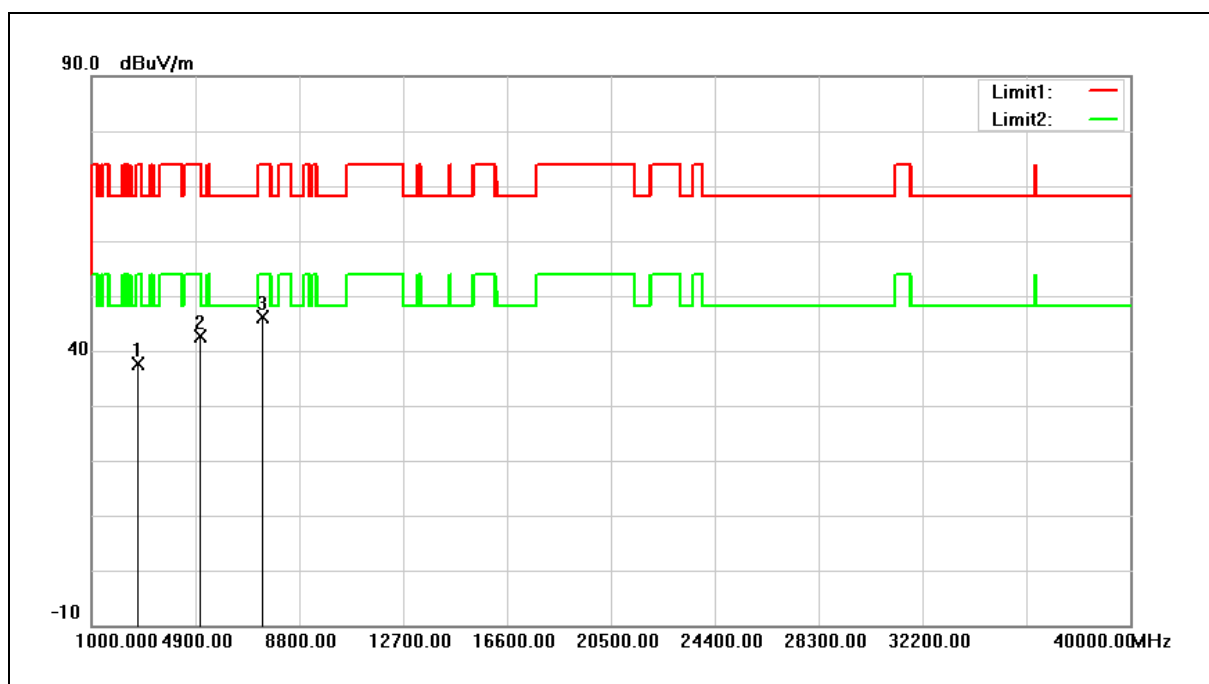
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2802.000	37.55	0.17	37.72	74.00	-36.28	peak
2	4723.000	35.66	6.60	42.26	74.00	-31.74	peak
3	7375.000	33.34	13.62	46.96	74.00	-27.04	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Mode:	Simultaneous Transmitting (WLAN 2.4 GHz + 5 GHz)		
Description:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2751.000	37.65	0.07	37.72	74.00	-36.28	peak
2	5063.000	35.14	7.48	42.62	74.00	-31.38	peak
3	7375.000	32.60	13.62	46.22	74.00	-27.78	peak

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

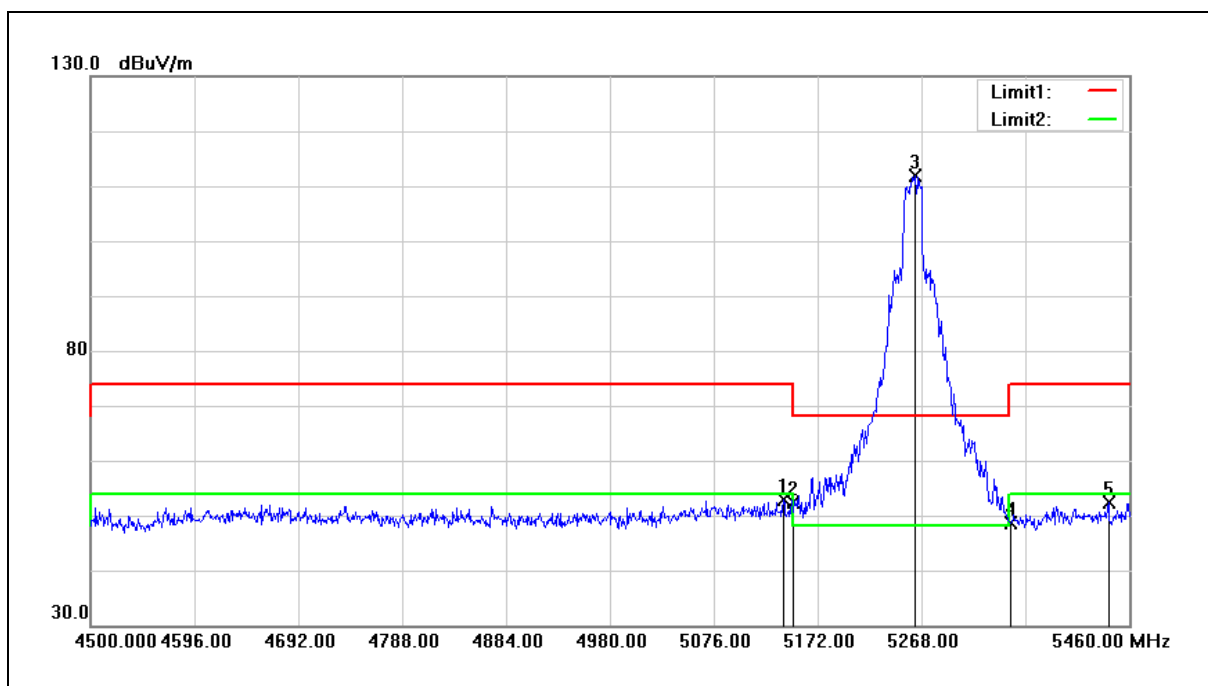
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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

Band Edge

Peak

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5260 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



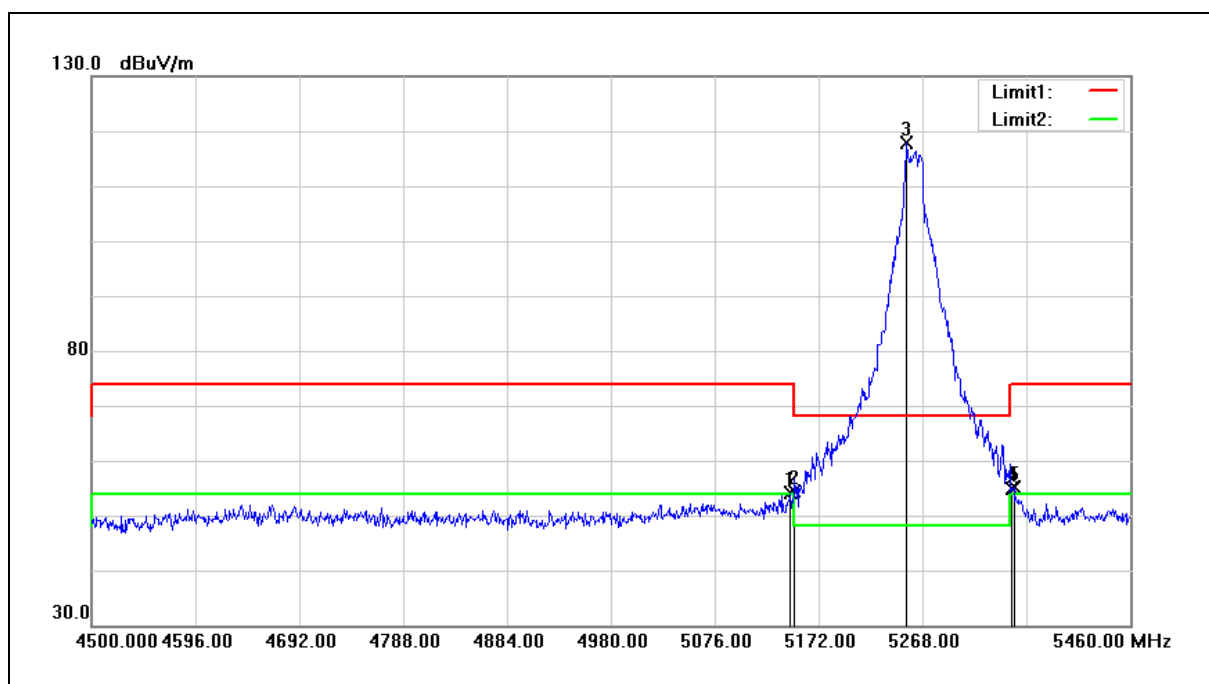
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5140.320	45.33	7.67	53.00	74.00	-21.00	peak
2	5150.000	44.84	7.66	52.50	74.00	-21.50	peak
3	5262.240	104.58	7.33	111.91	68.20	43.71	peak
4	5350.000	41.36	7.30	48.66	74.00	-25.34	peak
5	5440.800	44.86	7.58	52.44	74.00	-21.56	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5260 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



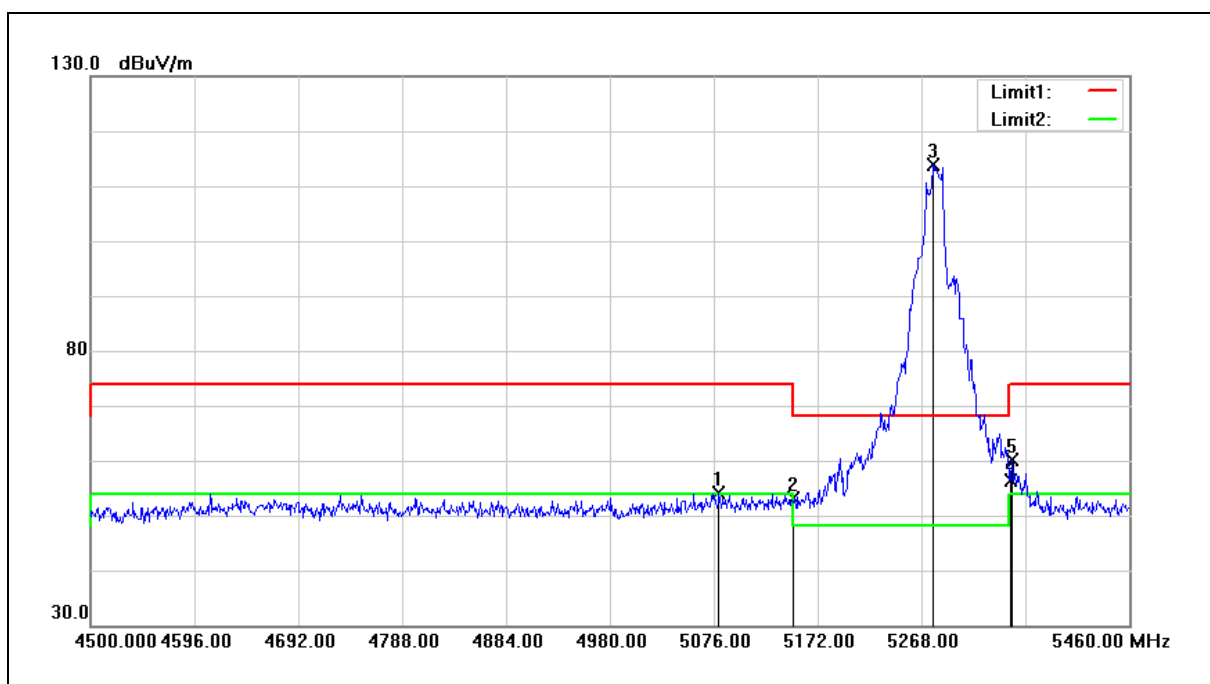
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.080	46.44	7.66	54.10	74.00	-19.90	peak
2	5150.000	46.82	7.66	54.48	74.00	-19.52	peak
3	5253.600	110.47	7.33	117.80	68.20	49.60	peak
4	5350.000	47.62	7.30	54.92	74.00	-19.08	peak
5	5352.480	47.89	7.30	55.19	74.00	-18.81	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:	5280 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



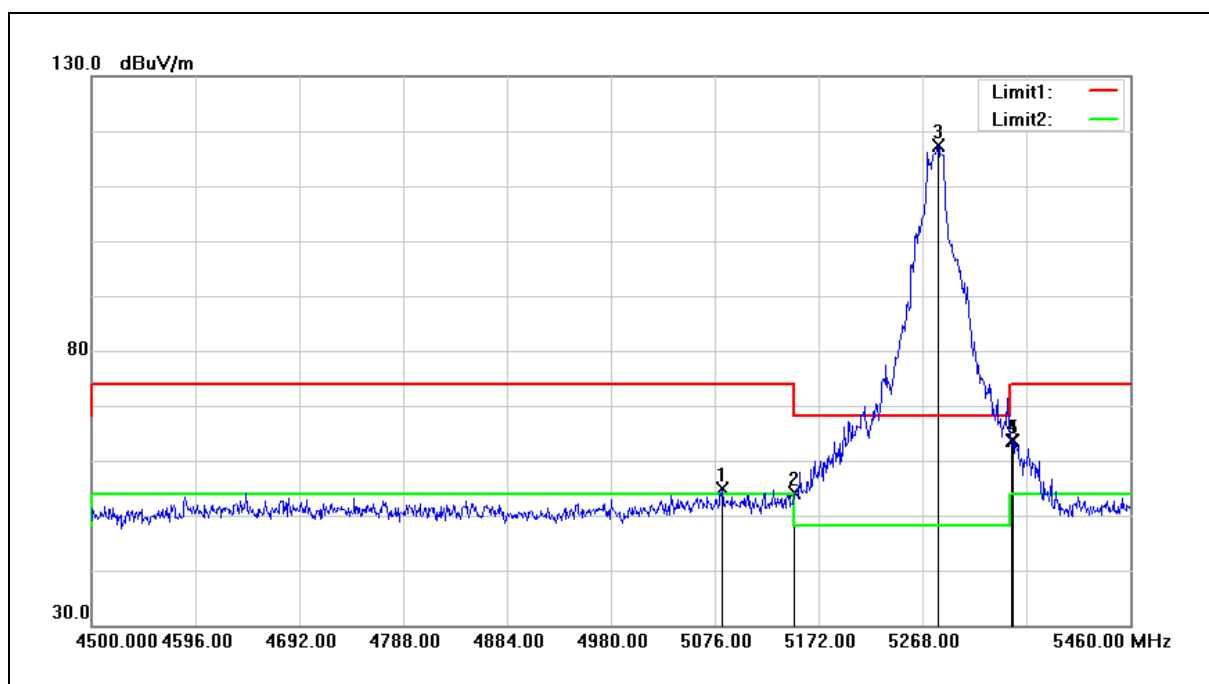
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5080.800	46.59	7.60	54.19	74.00	-19.81	peak
2	5150.000	45.54	7.66	53.20	74.00	-20.80	peak
3	5278.560	106.63	7.34	113.97	68.20	45.77	peak
4	5350.000	49.04	7.30	56.34	74.00	-17.66	peak
5	5351.520	52.84	7.30	60.14	74.00	-13.86	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5280 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



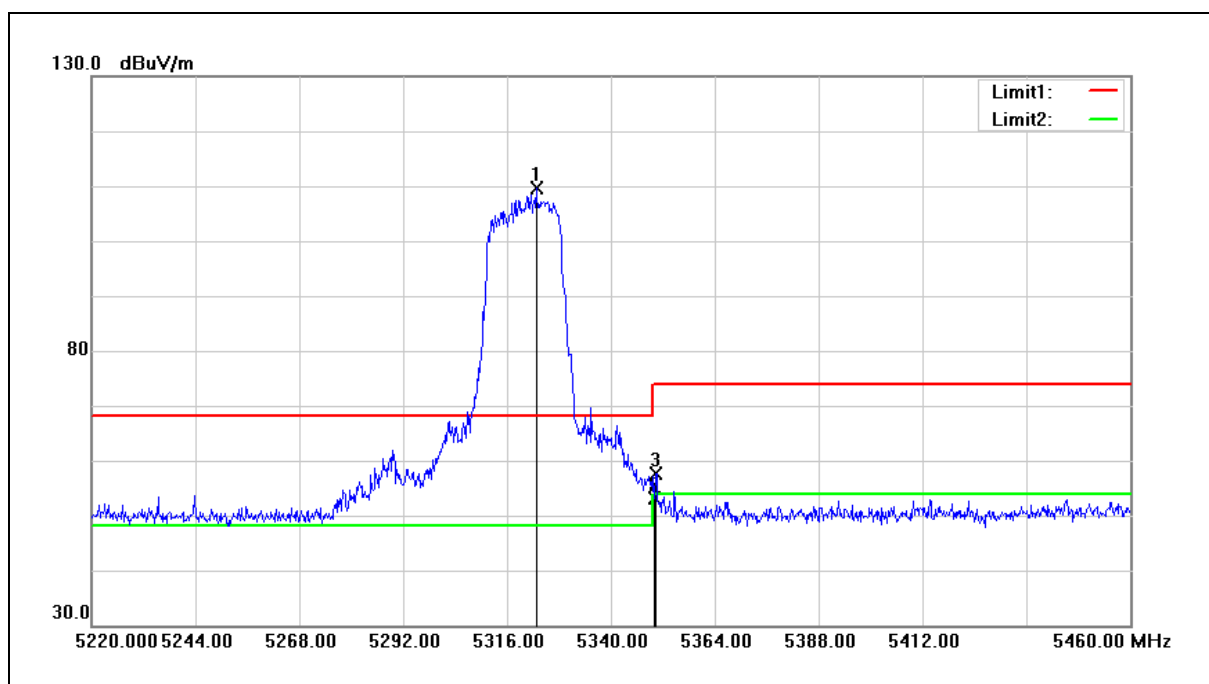
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5082.720	47.25	7.62	54.87	74.00	-19.13	peak
2	5150.000	46.39	7.66	54.05	74.00	-19.95	peak
3	5282.400	110.13	7.35	117.48	68.20	49.28	peak
4	5350.000	56.34	7.30	63.64	74.00	-10.36	peak
5	5351.520	56.23	7.30	63.53	74.00	-10.47	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:	Band edge		
Frequency:	5320 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



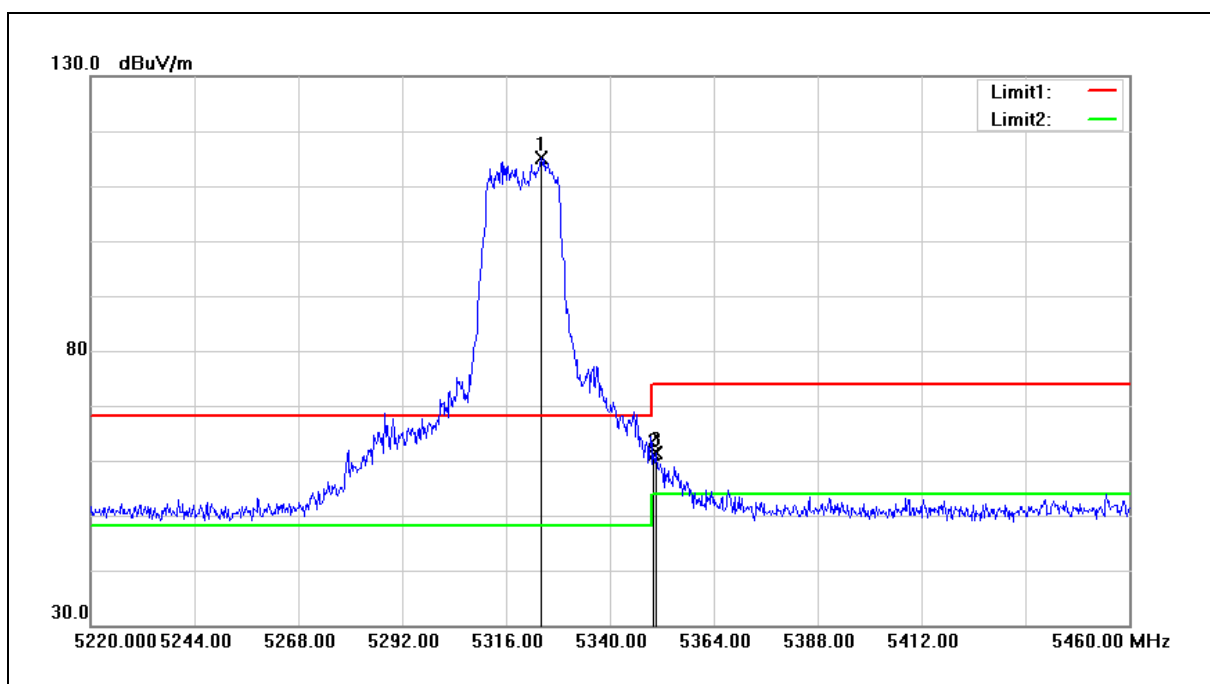
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5322.720	102.19	7.33	109.52	68.20	41.32	peak
2	5350.000	45.93	7.30	53.23	74.00	-20.77	peak
3	5350.320	50.42	7.30	57.72	74.00	-16.28	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5320 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



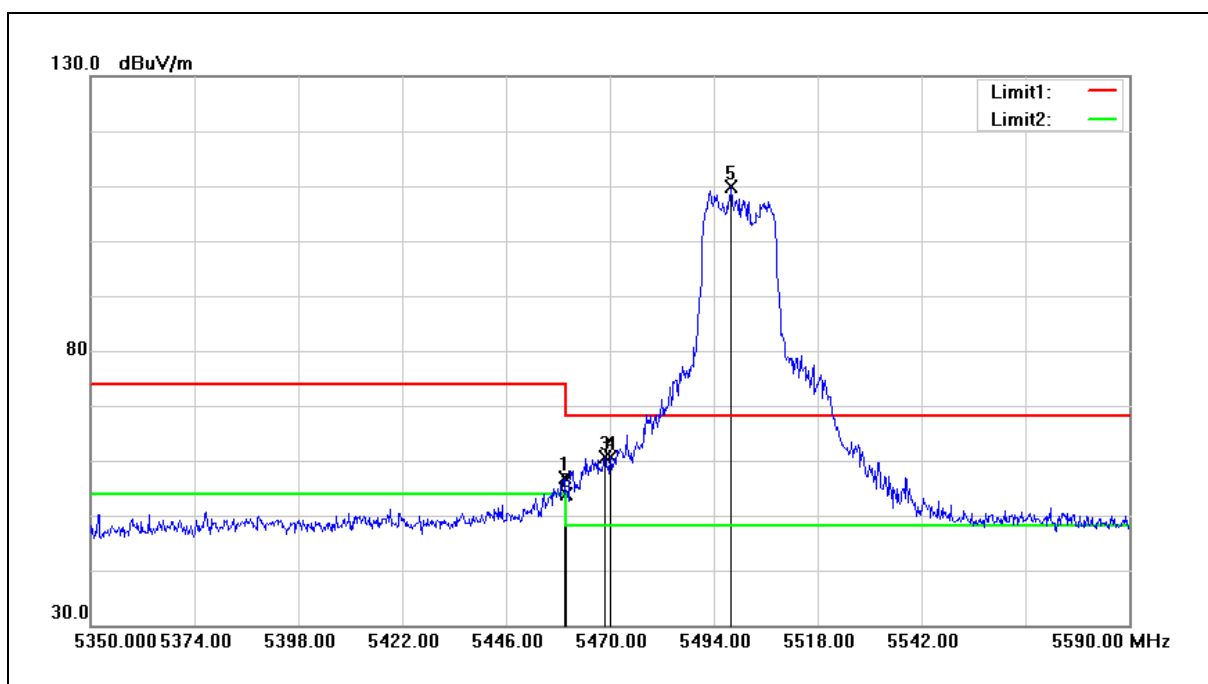
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.160	107.70	7.33	115.03	68.20	46.83	peak
2	5350.000	53.74	7.30	61.04	74.00	-12.96	peak
3	5350.560	54.12	7.30	61.42	74.00	-12.58	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5500 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



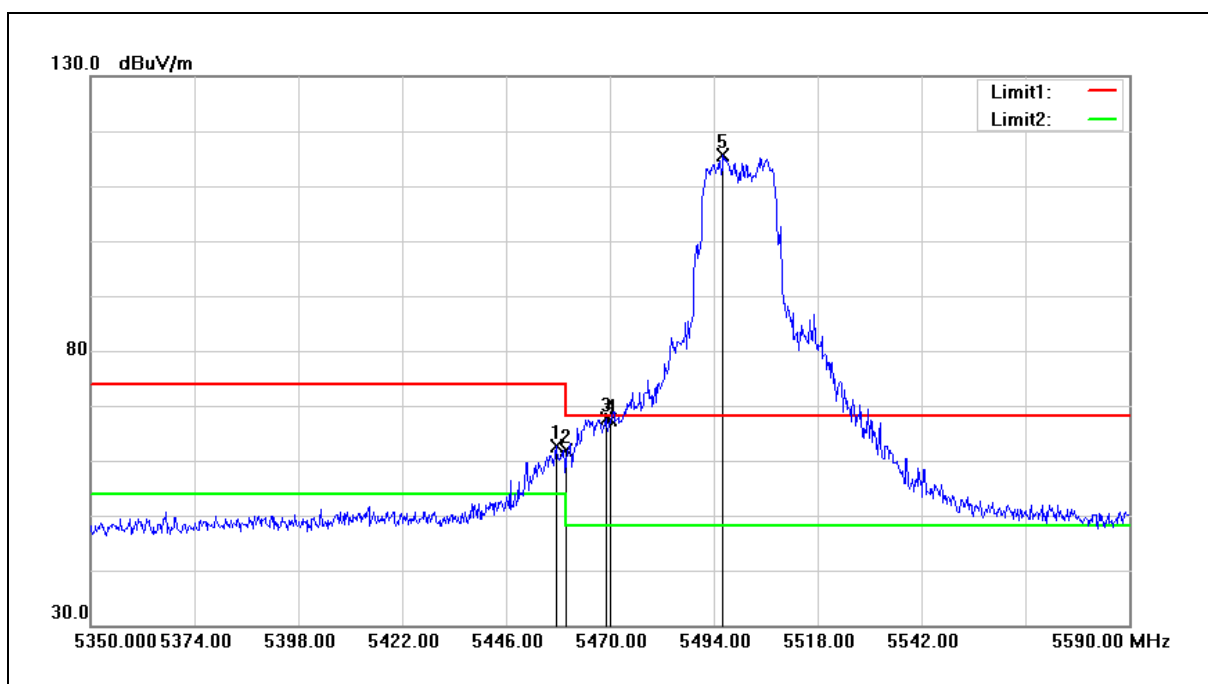
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.440	49.07	7.74	56.81	74.00	-17.19	peak
2	5460.000	46.25	7.74	53.99	74.00	-20.01	peak
3	5468.800	52.72	7.82	60.54	68.20	-7.66	peak
4	5470.000	52.76	7.83	60.59	68.20	-7.61	peak
5	5498.080	101.71	8.07	109.78	68.20	41.58	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5500 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



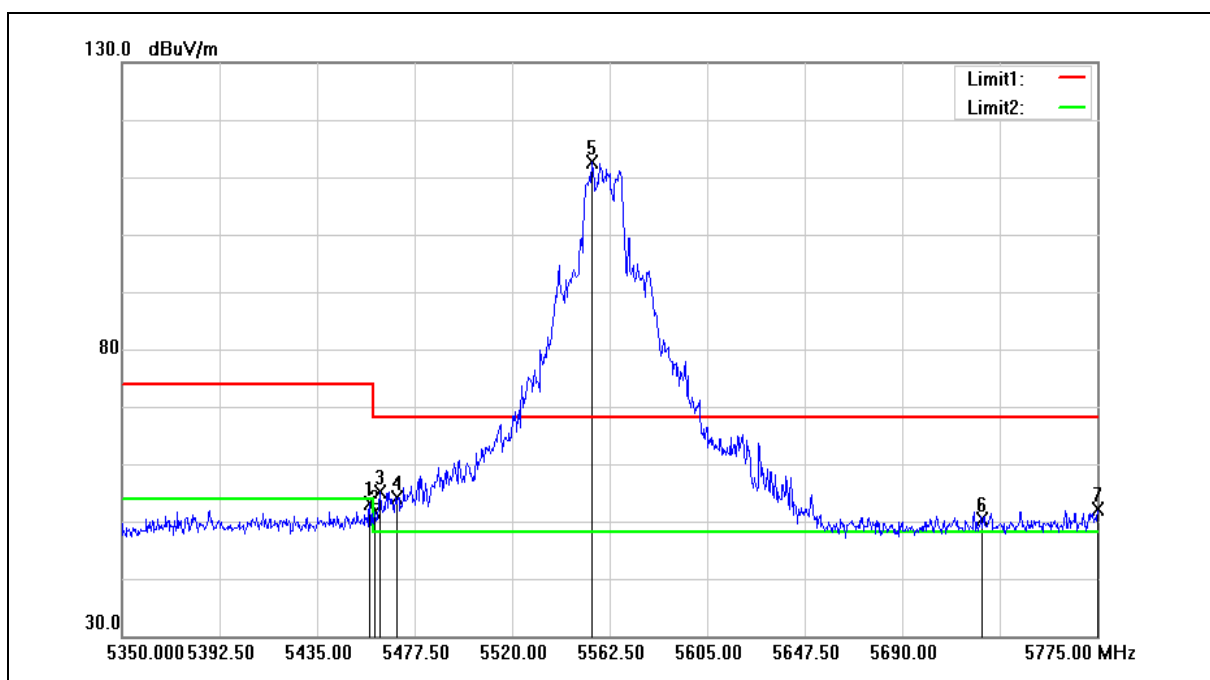
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.520	54.80	7.72	62.52	74.00	-11.48	peak
2	5460.000	54.09	7.74	61.83	74.00	-12.17	peak
3	5469.040	59.69	7.82	67.51	68.20	-0.69	peak
4	5470.000	59.55	7.83	67.38	68.20	-0.82	peak
5	5496.160	107.49	8.06	115.55	68.20	47.35	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5560 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



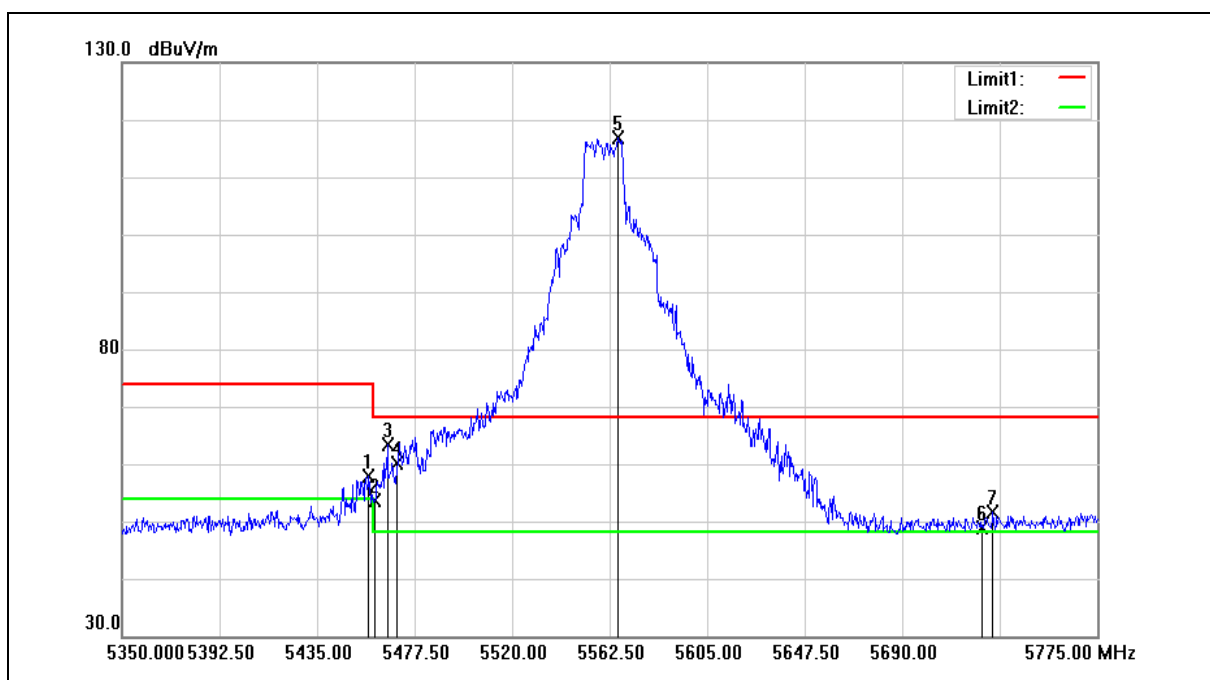
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.950	45.36	7.72	53.08	74.00	-20.92	peak
2	5460.000	43.99	7.74	51.73	74.00	-22.27	peak
3	5462.200	47.48	7.76	55.24	68.20	-12.96	peak
4	5470.000	46.37	7.83	54.20	68.20	-14.00	peak
5	5554.850	104.86	7.88	112.74	68.20	44.54	peak
6	5725.000	42.36	8.10	50.46	68.20	-17.74	peak
7	5775.000	43.43	8.59	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:	Band edge		
Frequency:	5560 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



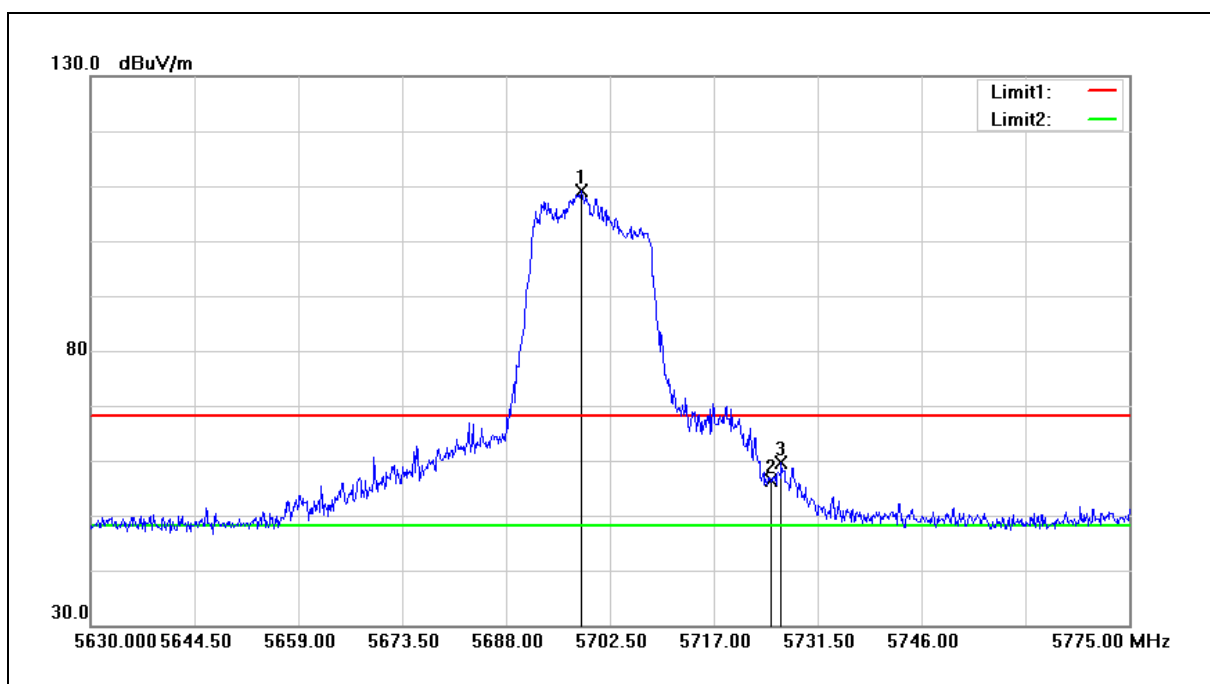
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.525	50.14	7.72	57.86	74.00	-16.14	peak
2	5460.000	45.81	7.74	53.55	74.00	-20.45	peak
3	5465.600	55.52	7.79	63.31	68.20	-4.89	peak
4	5470.000	52.40	7.83	60.23	68.20	-7.97	peak
5	5565.900	109.02	7.88	116.90	68.20	48.70	peak
6	5725.000	40.79	8.10	48.89	68.20	-19.31	peak
7	5729.525	43.49	8.13	51.62	68.20	-16.58	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5700 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



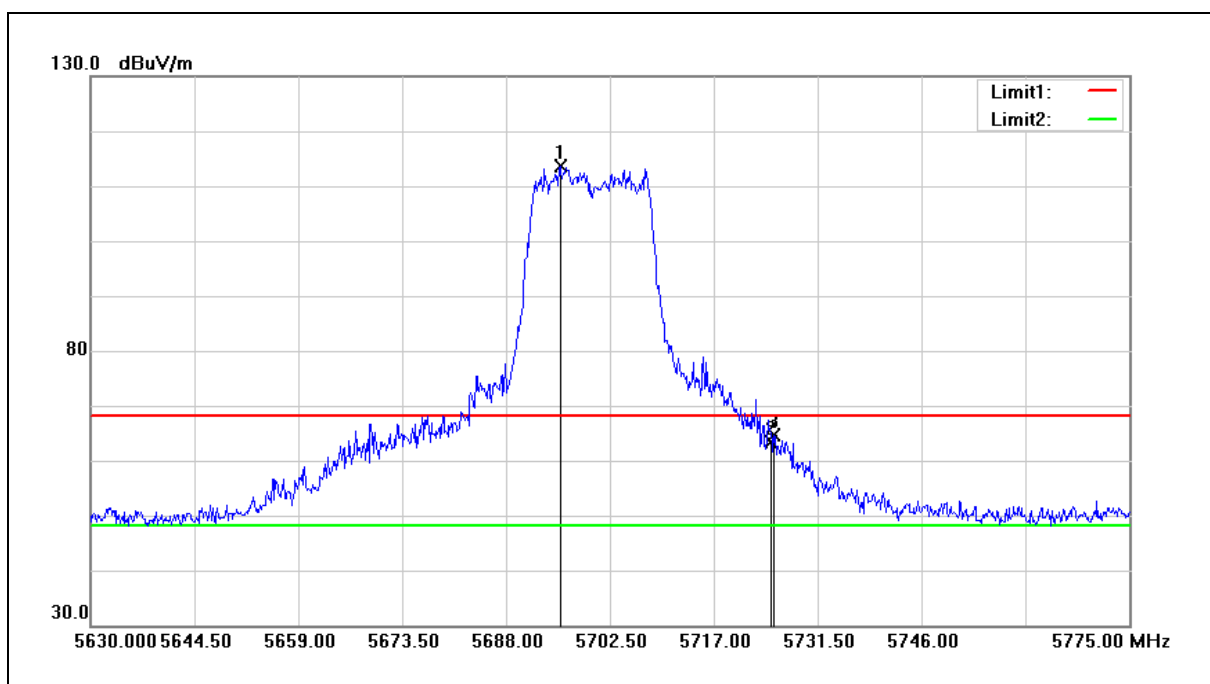
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5698.440	101.16	7.96	109.12	68.20	40.92	peak
2	5725.000	48.37	8.10	56.47	68.20	-11.73	peak
3	5726.425	51.60	8.11	59.71	68.20	-8.49	peak

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:	5700 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



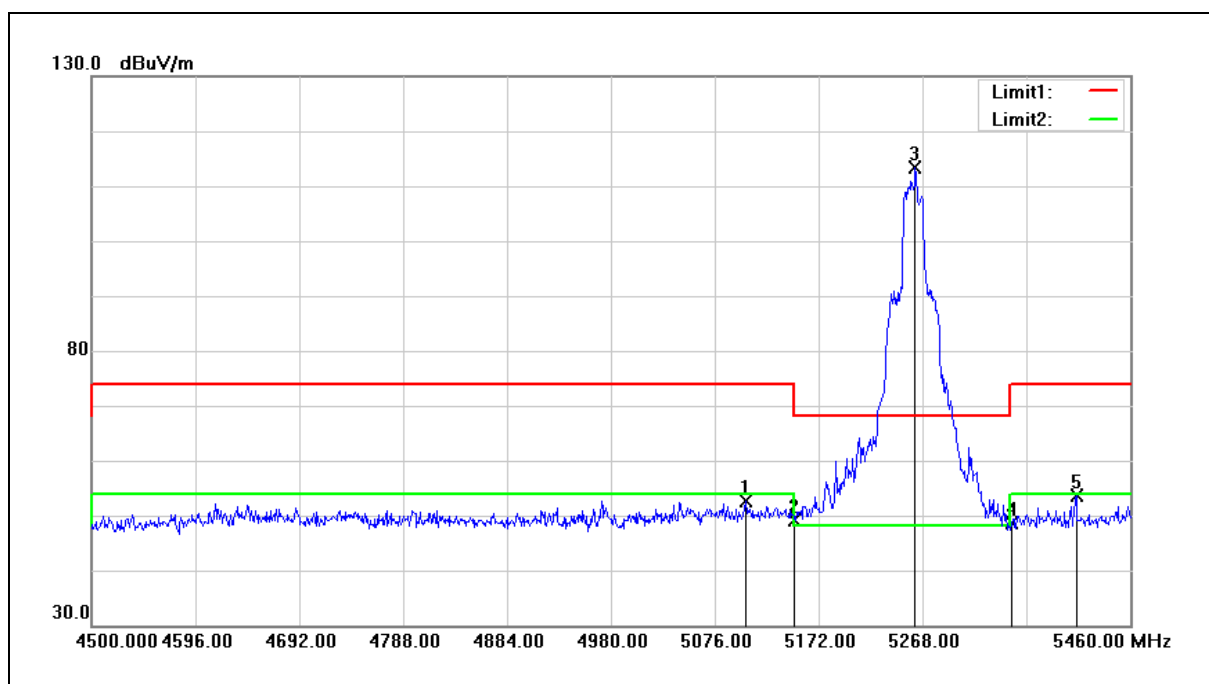
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5695.540	105.55	7.97	113.52	68.20	45.32	peak
2	5725.000	55.16	8.10	63.26	68.20	-4.94	peak
3	5725.410	56.42	8.10	64.52	68.20	-3.68	peak

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:	5260 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



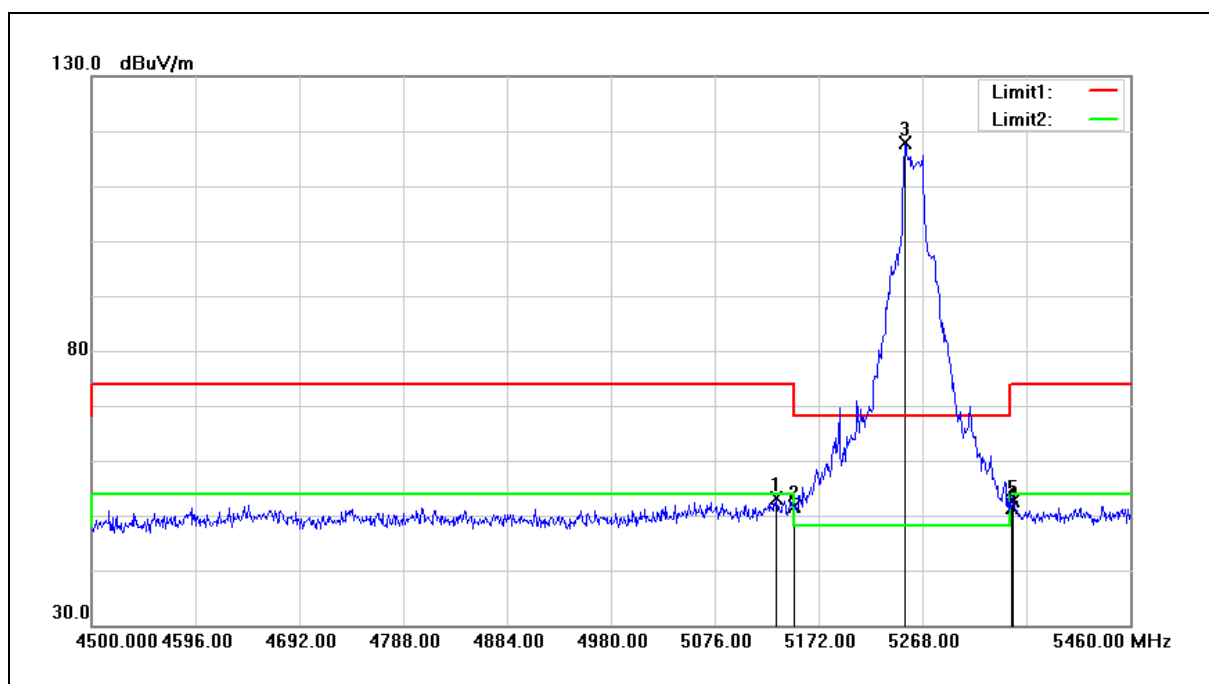
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5104.800	44.91	7.72	52.63	74.00	-21.37	peak
2	5150.000	41.52	7.66	49.18	74.00	-24.82	peak
3	5261.280	106.12	7.33	113.45	68.20	45.25	peak
4	5350.000	41.26	7.30	48.56	74.00	-25.44	peak
5	5410.080	46.21	7.31	53.52	74.00	-20.48	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:	5260 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



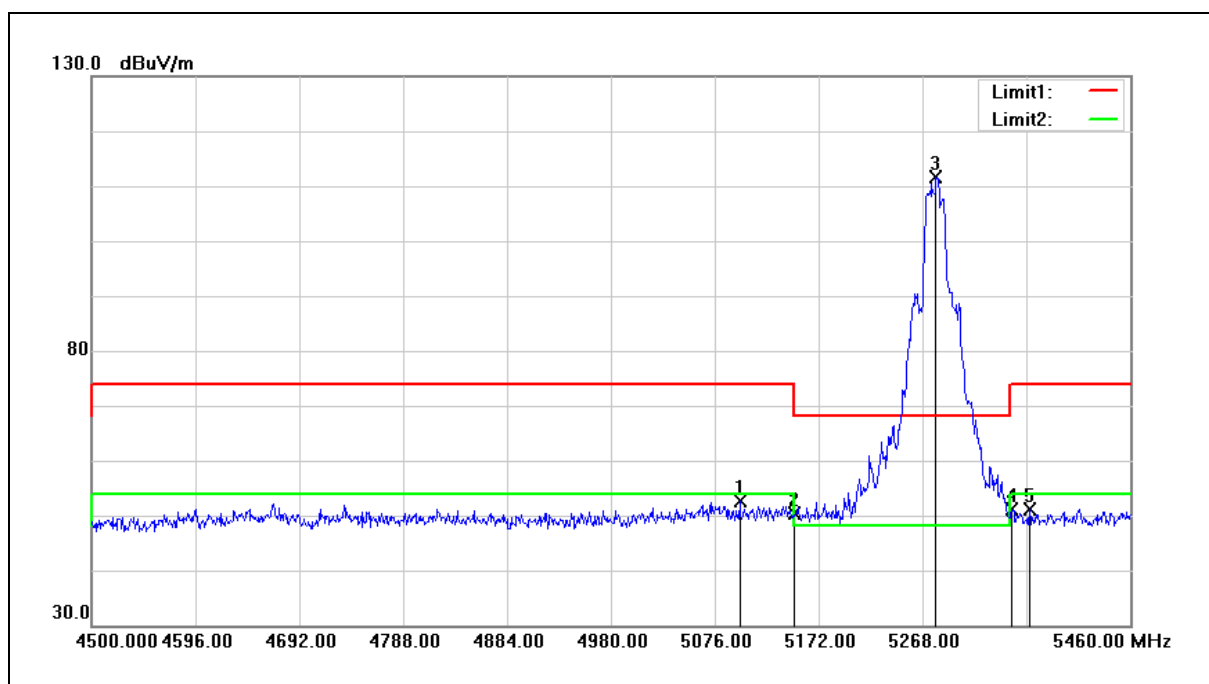
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5132.640	45.42	7.67	53.09	74.00	-20.91	peak
2	5150.000	44.00	7.66	51.66	74.00	-22.34	peak
3	5251.680	110.51	7.33	117.84	68.20	49.64	peak
4	5350.000	44.06	7.30	51.36	74.00	-22.64	peak
5	5351.520	45.22	7.30	52.52	74.00	-21.48	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:	5280 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



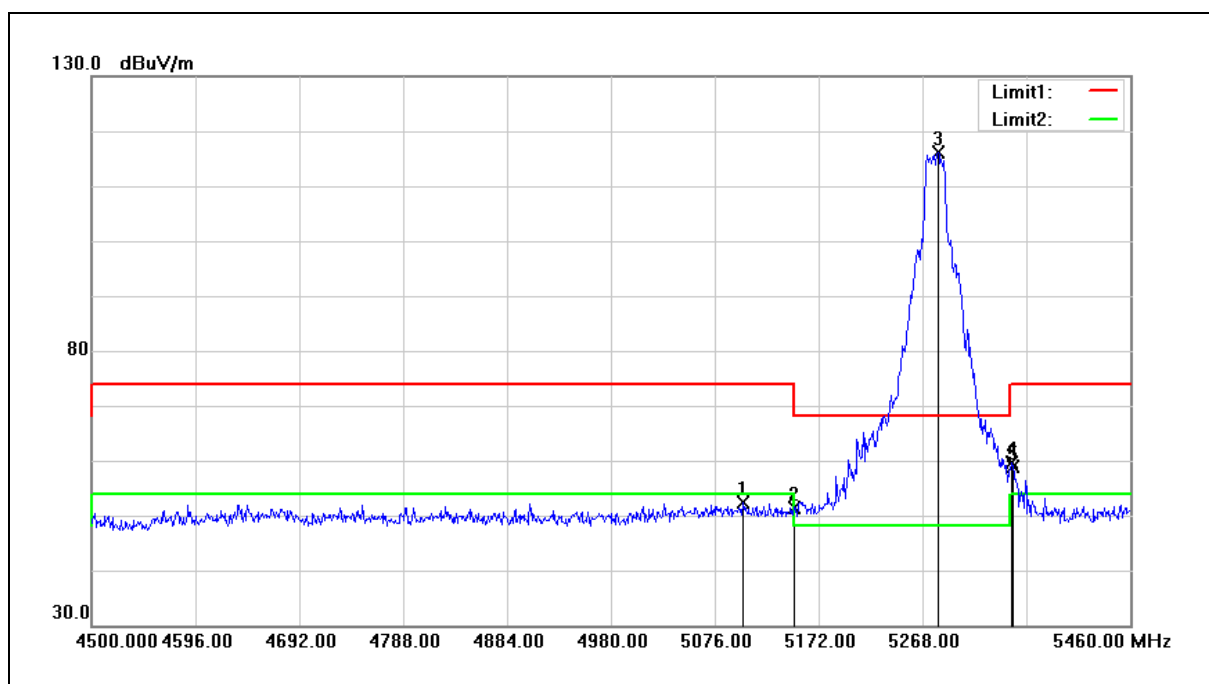
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5099.040	44.87	7.72	52.59	74.00	-21.41	peak
2	5150.000	42.71	7.66	50.37	74.00	-23.63	peak
3	5280.480	104.16	7.35	111.51	68.20	43.31	peak
4	5350.000	43.79	7.30	51.09	74.00	-22.91	peak
5	5366.880	43.85	7.28	51.13	74.00	-22.87	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5280 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



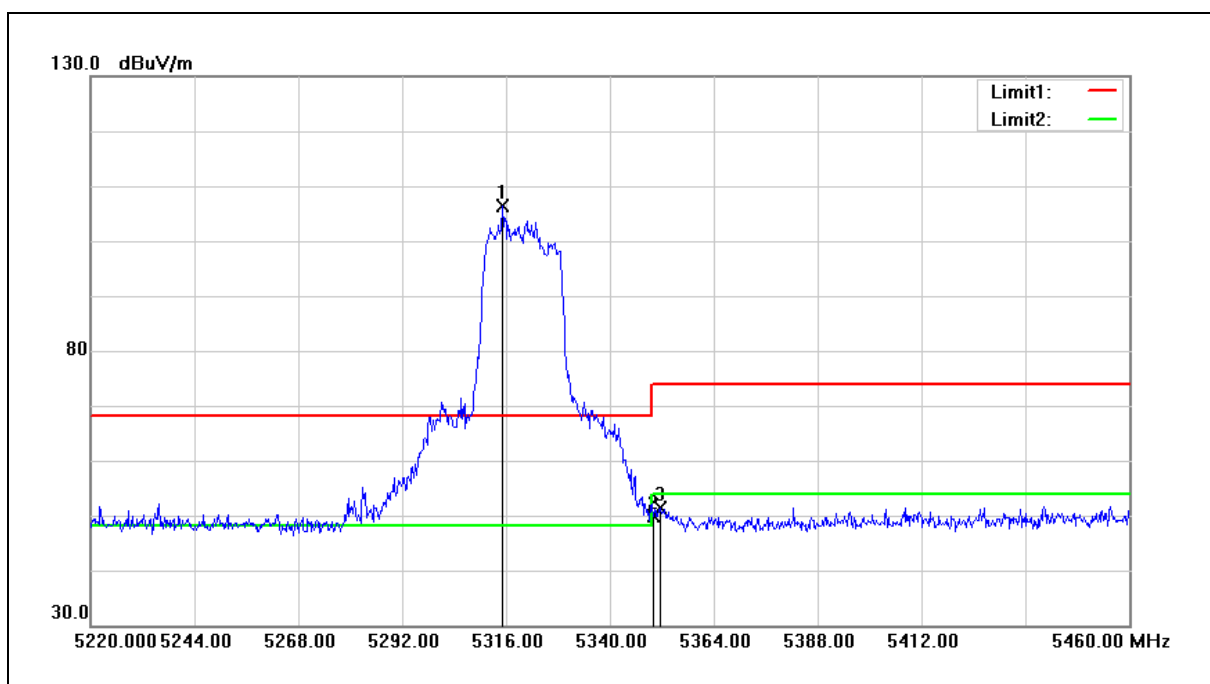
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5101.920	44.58	7.73	52.31	74.00	-21.69	peak
2	5150.000	43.83	7.66	51.49	74.00	-22.51	peak
3	5282.400	108.73	7.35	116.08	68.20	47.88	peak
4	5350.000	52.27	7.30	59.57	74.00	-14.43	peak
5	5351.520	51.60	7.30	58.90	74.00	-15.10	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5320 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



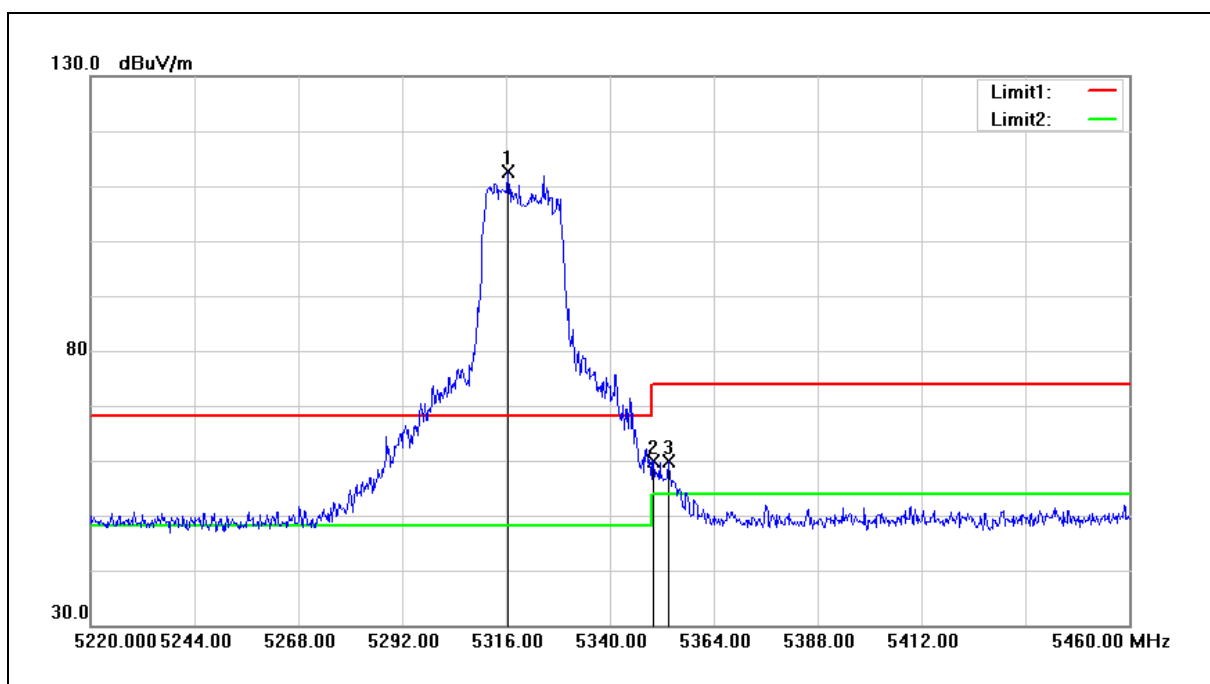
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5315.280	99.06	7.34	106.40	68.20	38.20	peak
2	5350.000	42.65	7.30	49.95	74.00	-24.05	peak
3	5351.520	44.20	7.30	51.50	74.00	-22.50	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5320 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



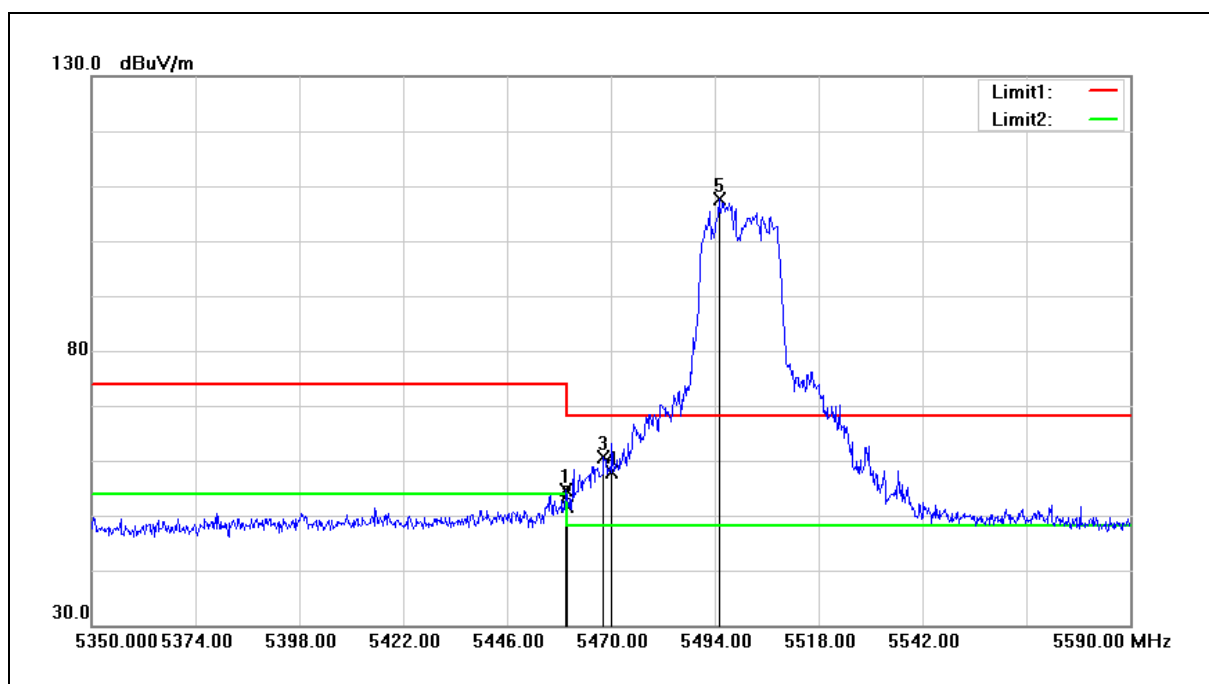
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5316.480	105.31	7.34	112.65	68.20	44.45	peak
2	5350.000	52.65	7.30	59.95	74.00	-14.05	peak
3	5353.440	52.56	7.29	59.85	74.00	-14.15	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5500 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



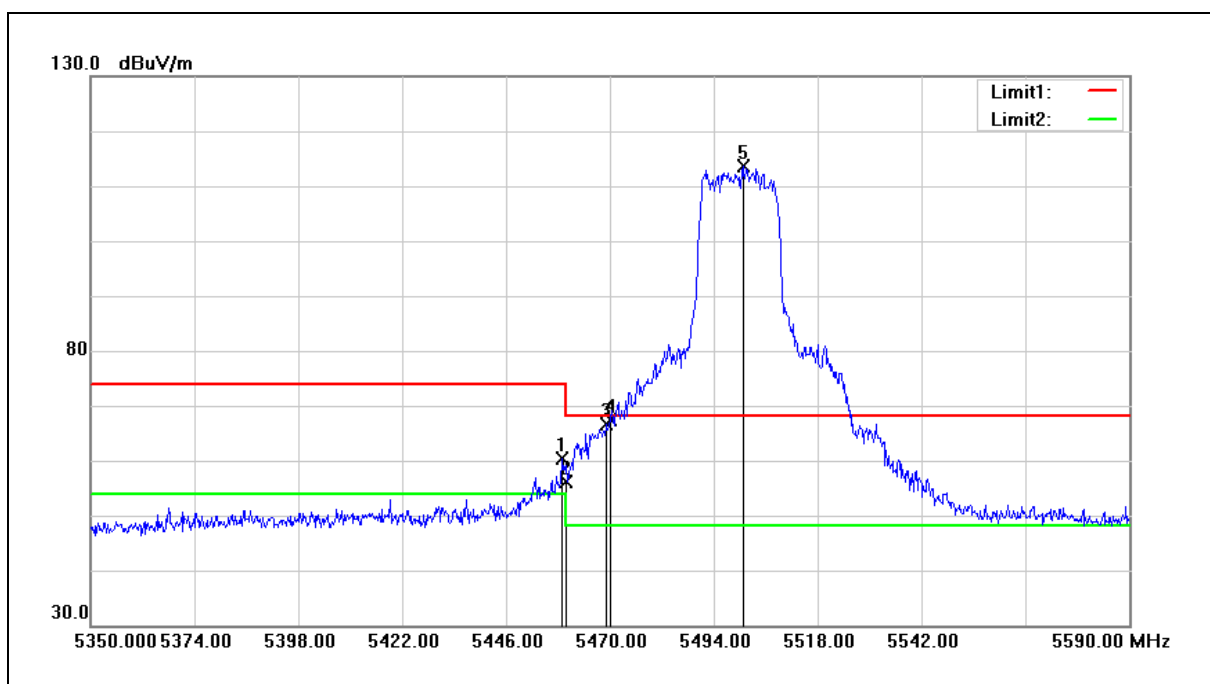
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.680	46.98	7.74	54.72	74.00	-19.28	peak
2	5460.000	43.79	7.74	51.53	74.00	-22.47	peak
3	5468.320	52.70	7.82	60.52	68.20	-7.68	peak
4	5470.000	50.12	7.83	57.95	68.20	-10.25	peak
5	5494.960	99.52	8.05	107.57	68.20	39.37	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5500 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



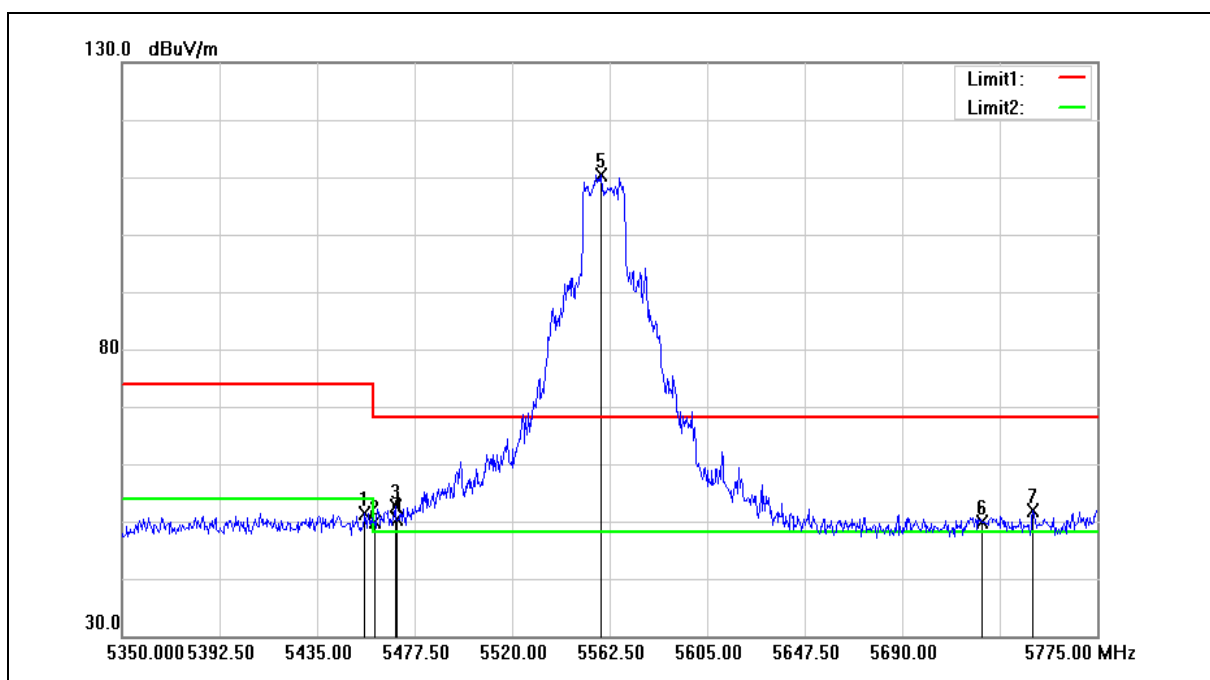
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.960	52.67	7.73	60.40	74.00	-13.60	peak
2	5460.000	48.49	7.74	56.23	74.00	-17.77	peak
3	5469.280	58.84	7.82	66.66	68.20	-1.54	peak
4	5470.000	59.60	7.83	67.43	68.20	-0.77	peak
5	5500.720	105.42	8.09	113.51	68.20	45.31	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5560 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



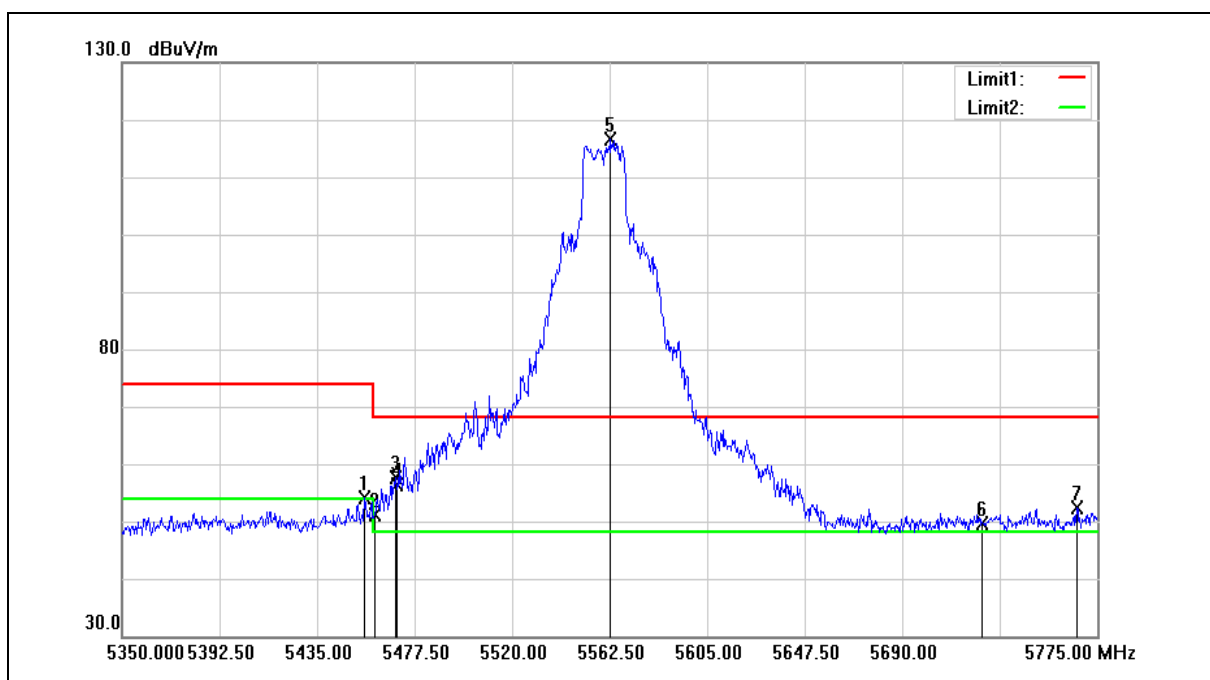
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.825	43.76	7.71	51.47	74.00	-22.53	peak
2	5460.000	42.23	7.74	49.97	74.00	-24.03	peak
3	5469.000	44.88	7.82	52.70	68.20	-15.50	peak
4	5470.000	42.45	7.83	50.28	68.20	-17.92	peak
5	5558.675	102.57	7.88	110.45	68.20	42.25	peak
6	5725.000	41.67	8.10	49.77	68.20	-18.43	peak
7	5746.950	43.65	8.23	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:	Band edge		
Frequency:	5560 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



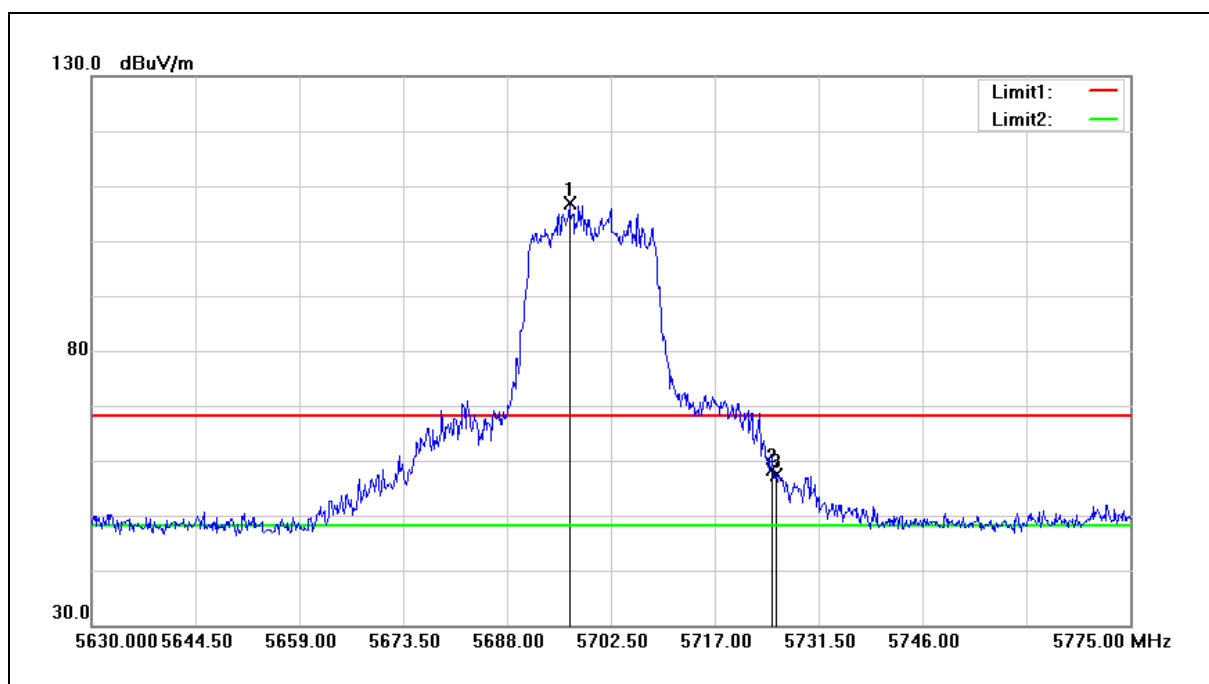
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.400	46.45	7.70	54.15	74.00	-19.85	peak
2	5460.000	43.36	7.74	51.10	74.00	-22.90	peak
3	5469.425	49.87	7.83	57.70	68.20	-10.50	peak
4	5470.000	48.62	7.83	56.45	68.20	-11.75	peak
5	5562.925	108.79	7.88	116.67	68.20	48.47	peak
6	5725.000	41.64	8.10	49.74	68.20	-18.46	peak
7	5766.075	43.85	8.46	52.31	68.20	-15.89	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:	5700 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



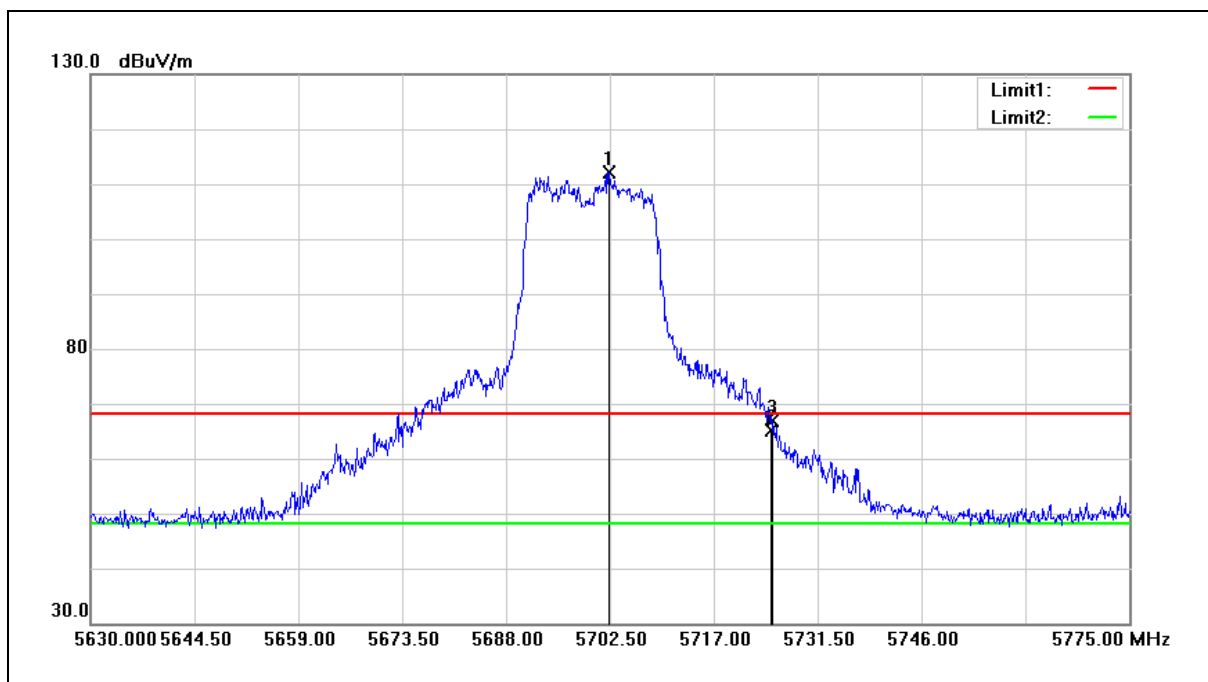
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5696.700	98.85	7.97	106.82	68.20	38.62	peak
2	5725.000	50.29	8.10	58.39	68.20	-9.81	peak
3	5725.555	49.25	8.10	57.35	68.20	-10.85	peak

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:	Band edge		
Frequency:	5700 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



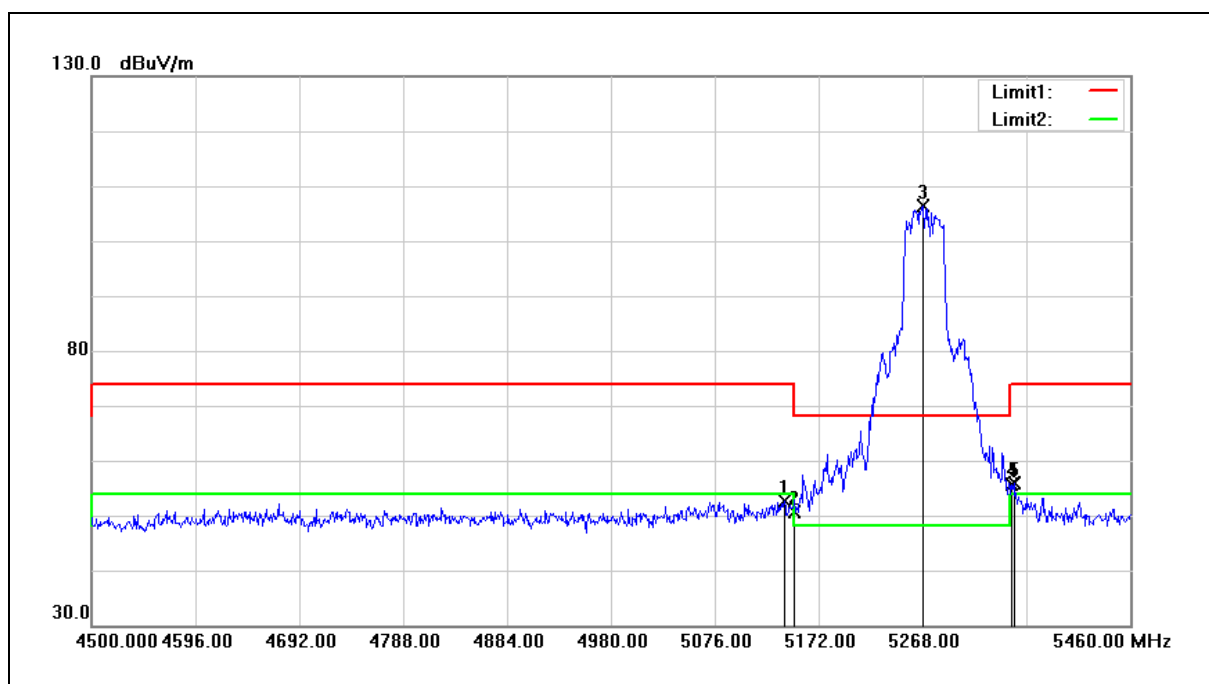
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5702.355	104.07	7.97	112.04	68.20	43.84	peak
2	5725.000	57.13	8.10	65.23	68.20	-2.97	peak
3	5725.265	58.85	8.10	66.95	68.20	-1.25	peak

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:	5270 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



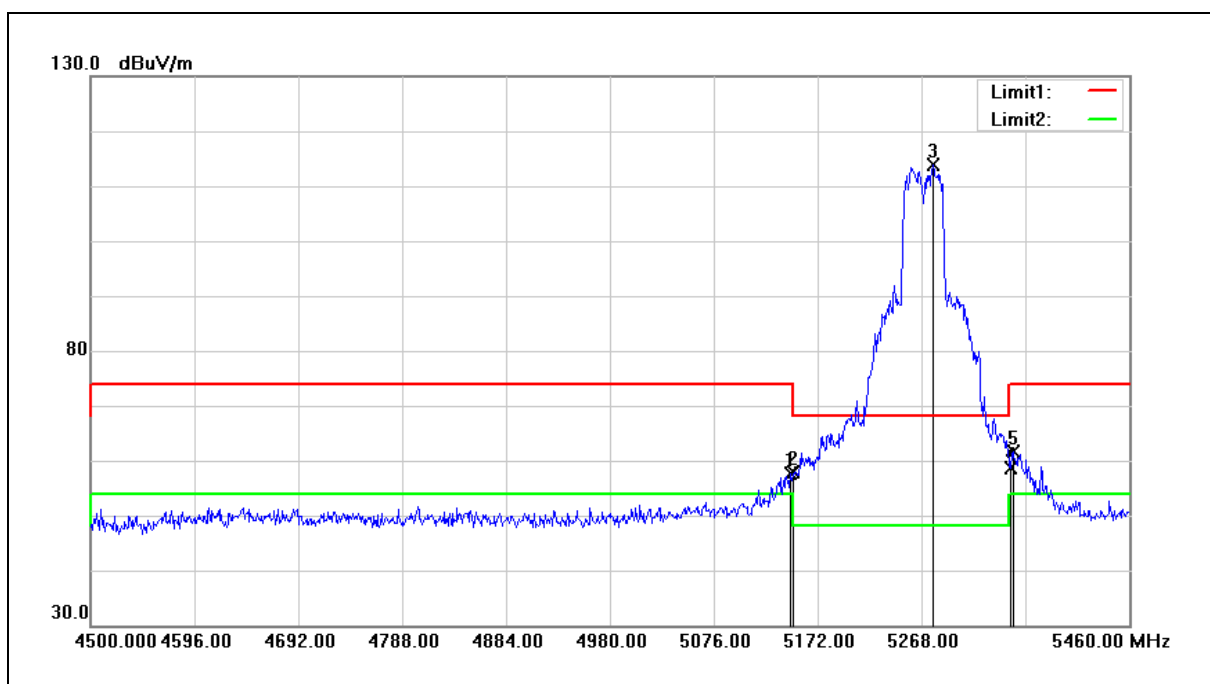
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5140.320	44.98	7.67	52.65	74.00	-21.35	peak
2	5150.000	43.04	7.66	50.70	74.00	-23.30	peak
3	5268.960	98.97	7.34	106.31	68.20	38.11	peak
4	5350.000	48.40	7.30	55.70	74.00	-18.30	peak
5	5352.480	48.51	7.30	55.81	74.00	-18.19	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:	5270 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



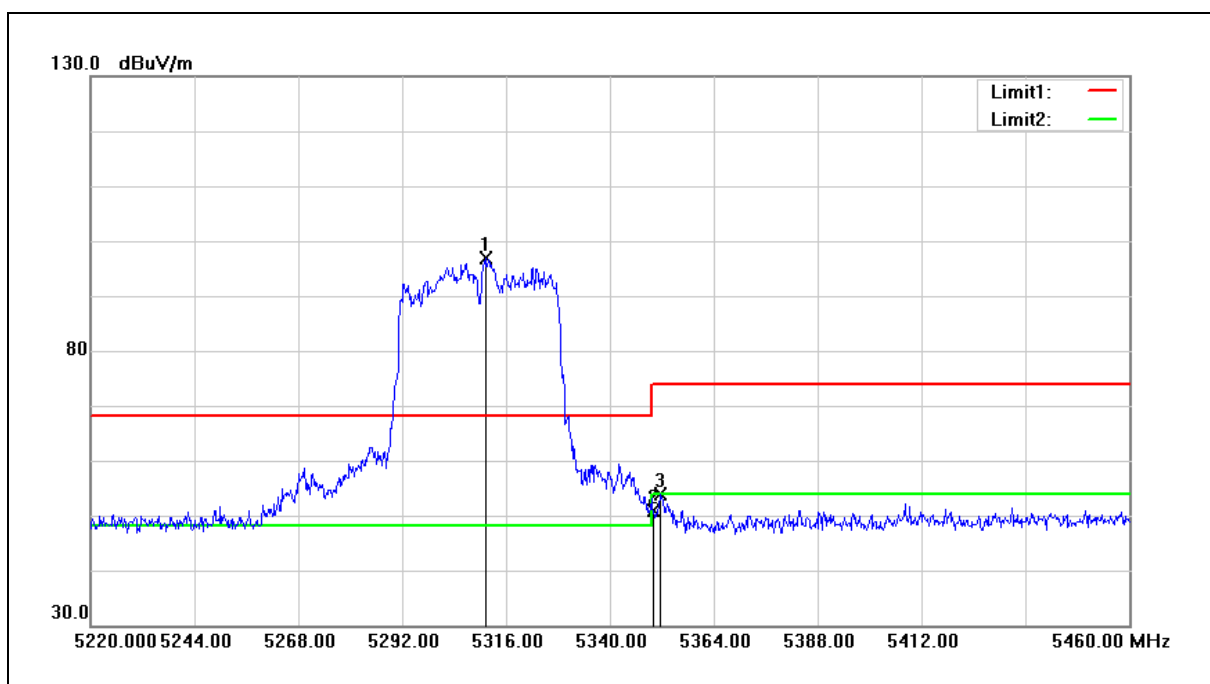
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.040	49.96	7.66	57.62	74.00	-16.38	peak
2	5150.000	50.16	7.66	57.82	74.00	-16.18	peak
3	5278.560	106.43	7.34	113.77	68.20	45.57	peak
4	5350.000	51.43	7.30	58.73	74.00	-15.27	peak
5	5352.480	54.36	7.30	61.66	74.00	-12.34	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:	5310 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



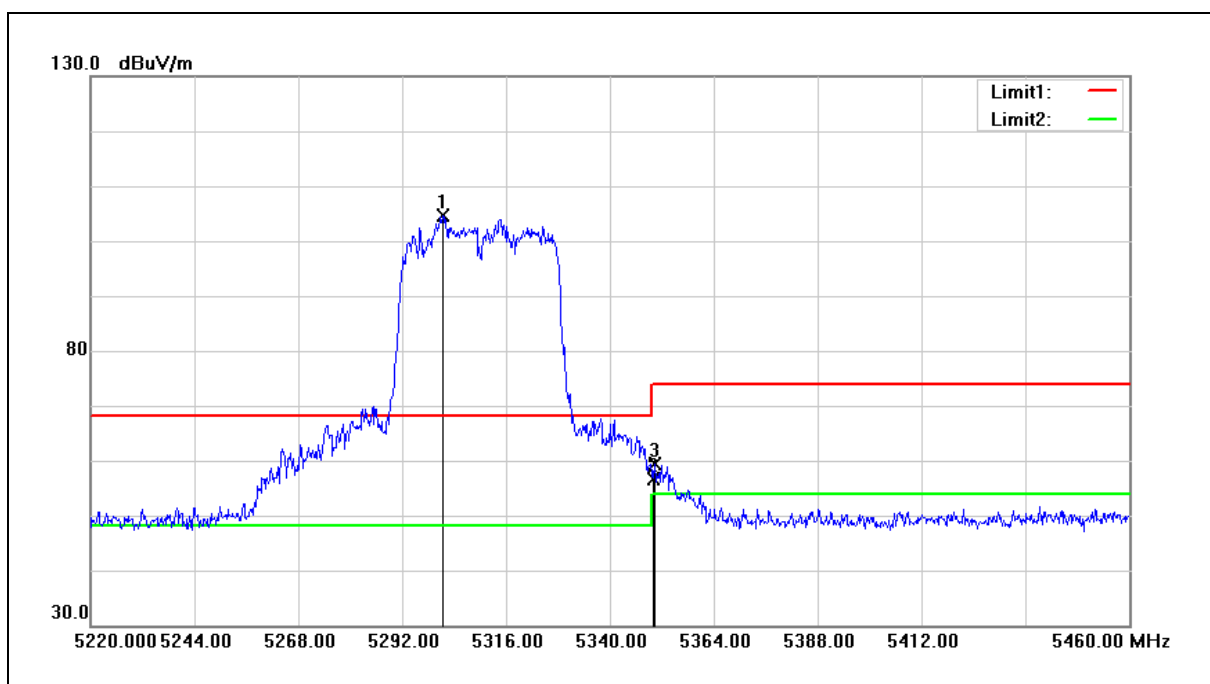
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5311.200	89.41	7.35	96.76	68.20	28.56	peak
2	5350.000	43.52	7.30	50.82	74.00	-23.18	peak
3	5351.760	46.63	7.30	53.93	74.00	-20.07	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5310 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



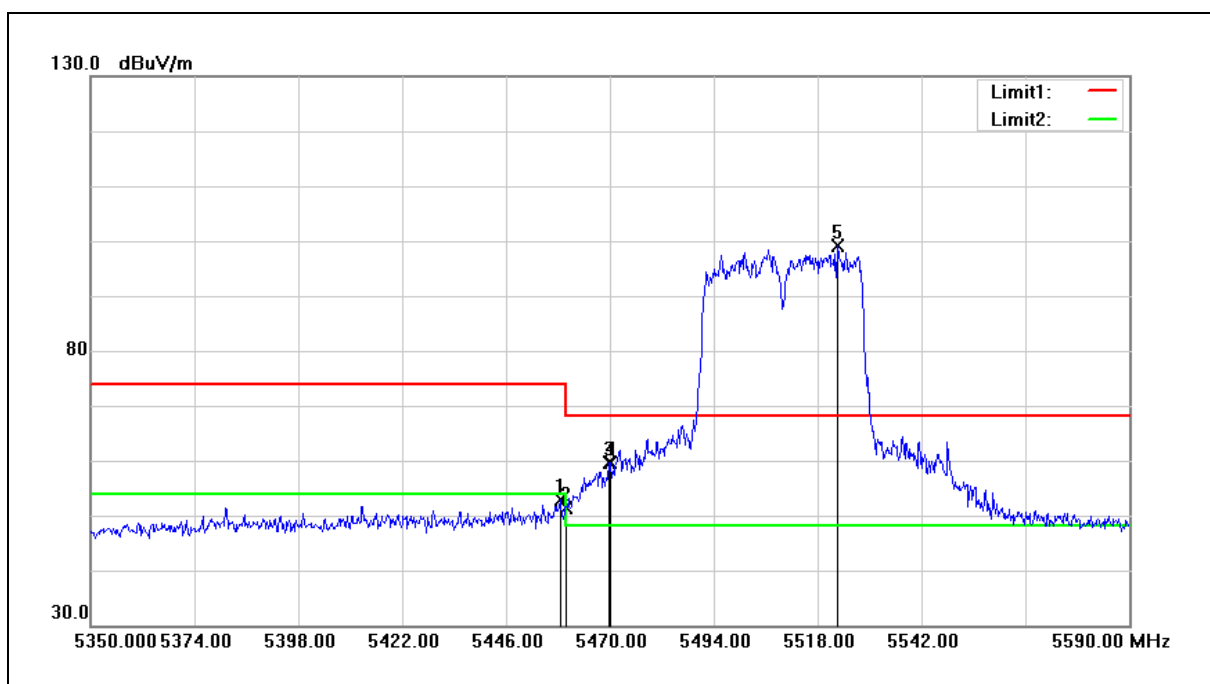
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5301.360	97.29	7.36	104.65	68.20	36.45	peak
2	5350.000	49.45	7.30	56.75	74.00	-17.25	peak
3	5350.320	52.13	7.30	59.43	74.00	-14.57	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5510 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



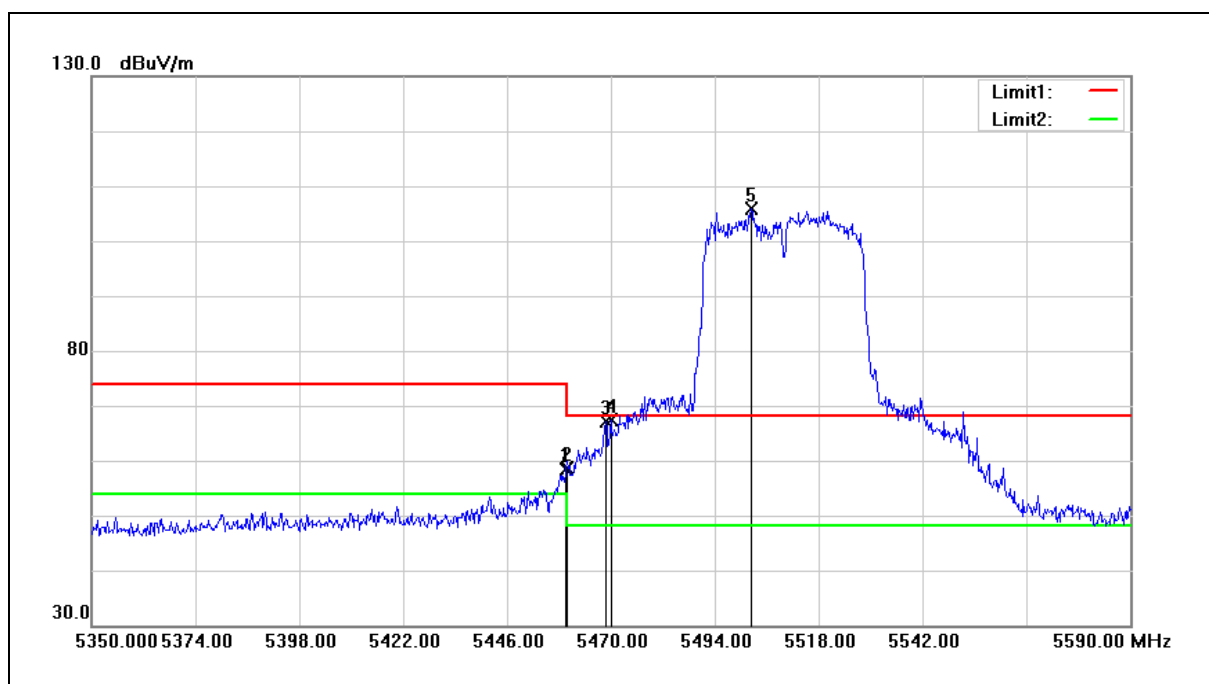
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.480	45.23	7.73	52.96	74.00	-21.04	peak
2	5460.000	43.59	7.74	51.33	74.00	-22.67	peak
3	5469.760	51.91	7.83	59.74	68.20	-8.46	peak
4	5470.000	51.90	7.83	59.73	68.20	-8.47	peak
5	5522.560	91.09	7.99	99.08	68.20	30.88	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5510 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



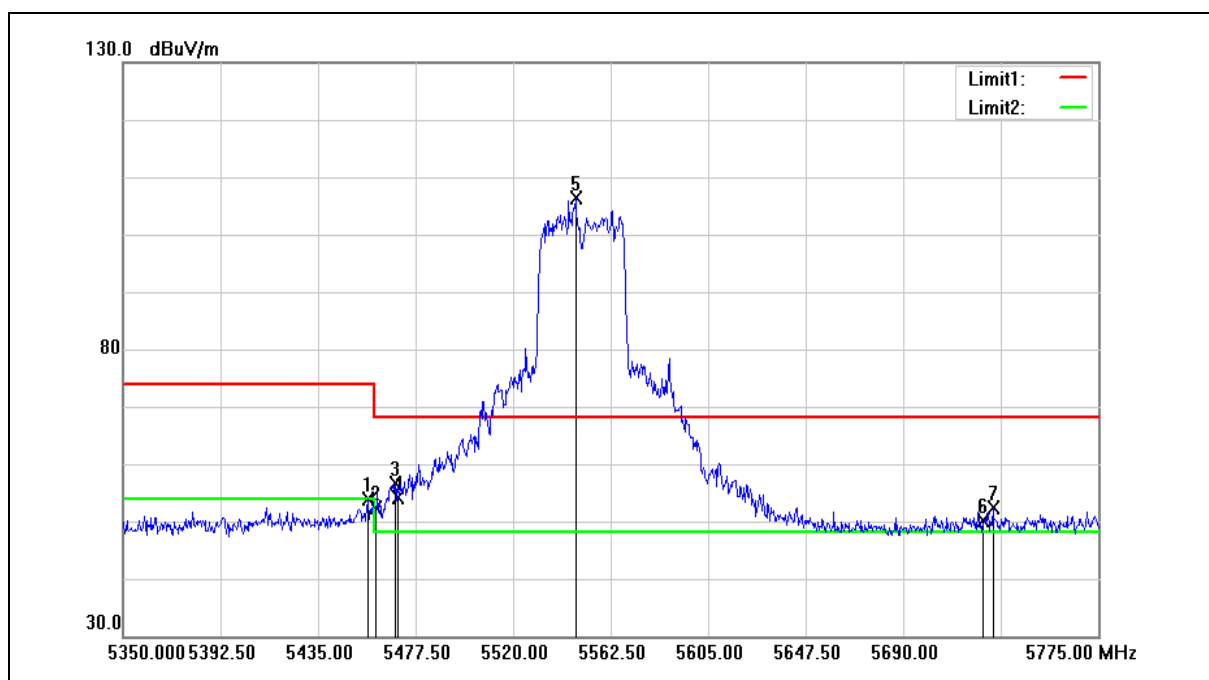
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.680	50.68	7.74	58.42	74.00	-15.58	peak
2	5460.000	51.00	7.74	58.74	74.00	-15.26	peak
3	5468.800	59.29	7.82	67.11	68.20	-1.09	peak
4	5470.000	59.48	7.83	67.31	68.20	-0.89	peak
5	5502.400	97.80	8.08	105.88	68.20	37.68	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:	5550 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



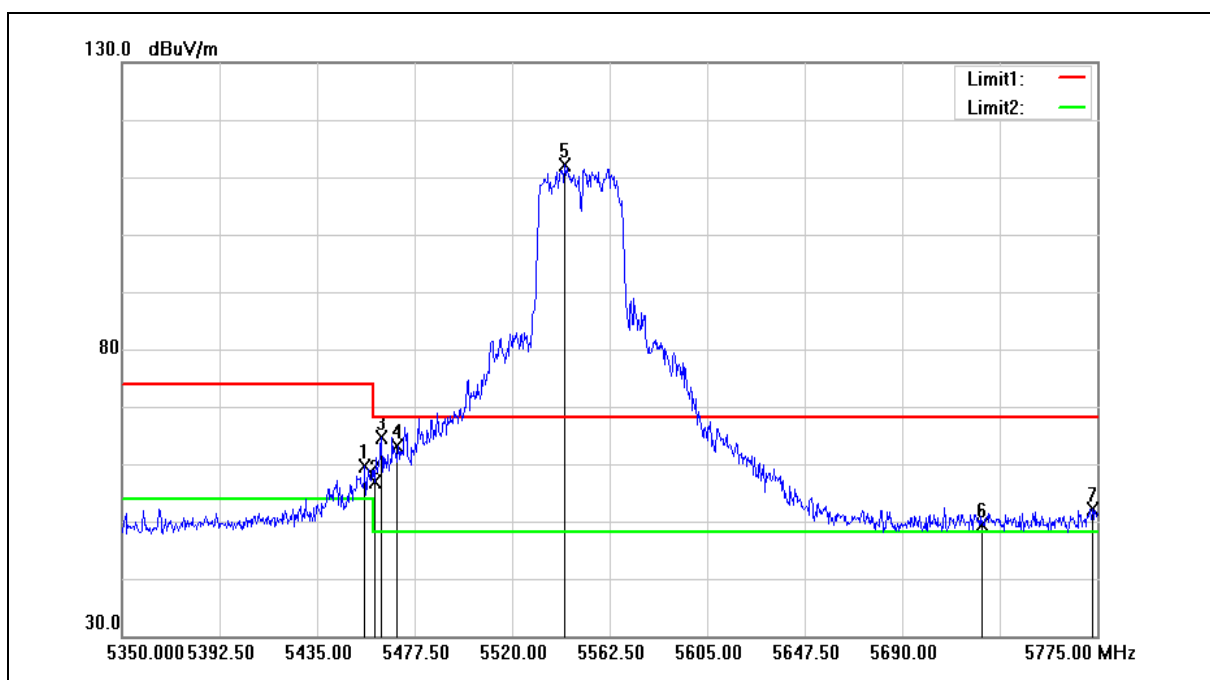
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5456.675	46.11	7.71	53.82	74.00	-20.18	peak
2	5460.000	44.74	7.74	52.48	74.00	-21.52	peak
3	5468.575	48.73	7.82	56.55	68.20	-11.65	peak
4	5470.000	46.34	7.83	54.17	68.20	-14.03	peak
5	5547.200	98.36	7.90	106.26	68.20	38.06	peak
6	5725.000	42.14	8.10	50.24	68.20	-17.96	peak
7	5729.100	44.22	8.13	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:	Band edge		
Frequency:	5550 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



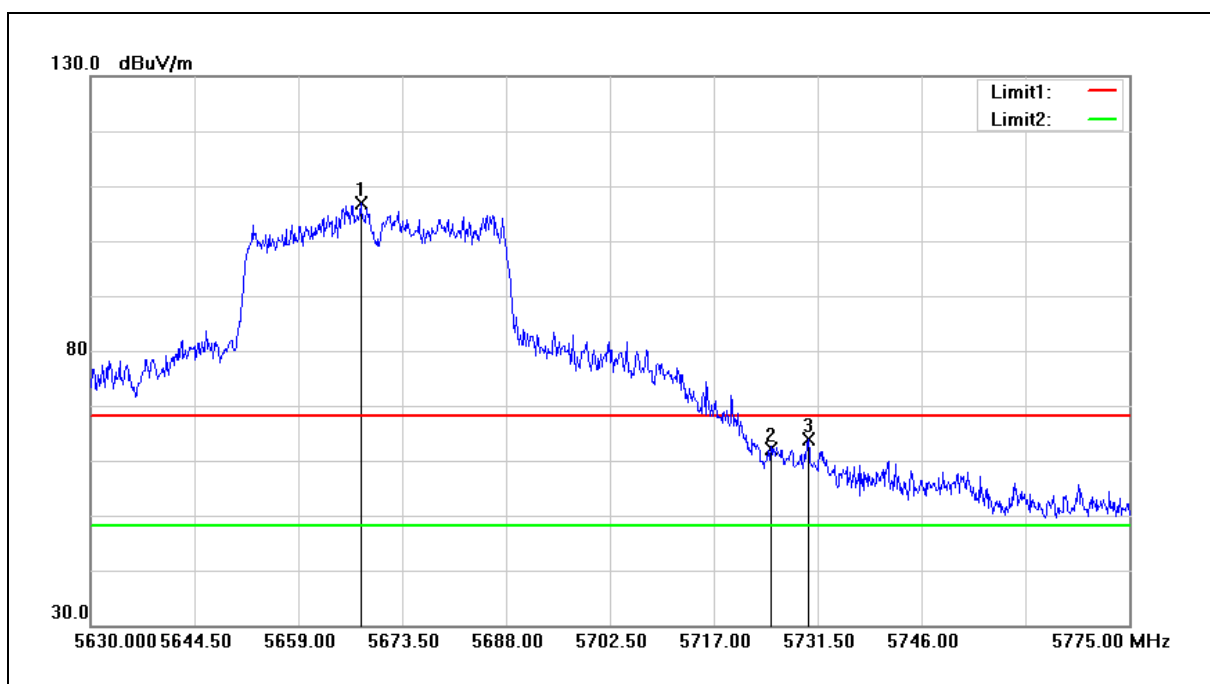
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.825	52.00	7.71	59.71	74.00	-14.29	peak
2	5460.000	49.09	7.74	56.83	74.00	-17.17	peak
3	5463.050	56.81	7.76	64.57	68.20	-3.63	peak
4	5470.000	55.34	7.83	63.17	68.20	-5.03	peak
5	5542.950	104.31	7.91	112.22	68.20	44.02	peak
6	5725.000	41.36	8.10	49.46	68.20	-18.74	peak
7	5772.875	43.53	8.56	52.09	68.20	-16.11	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5670 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



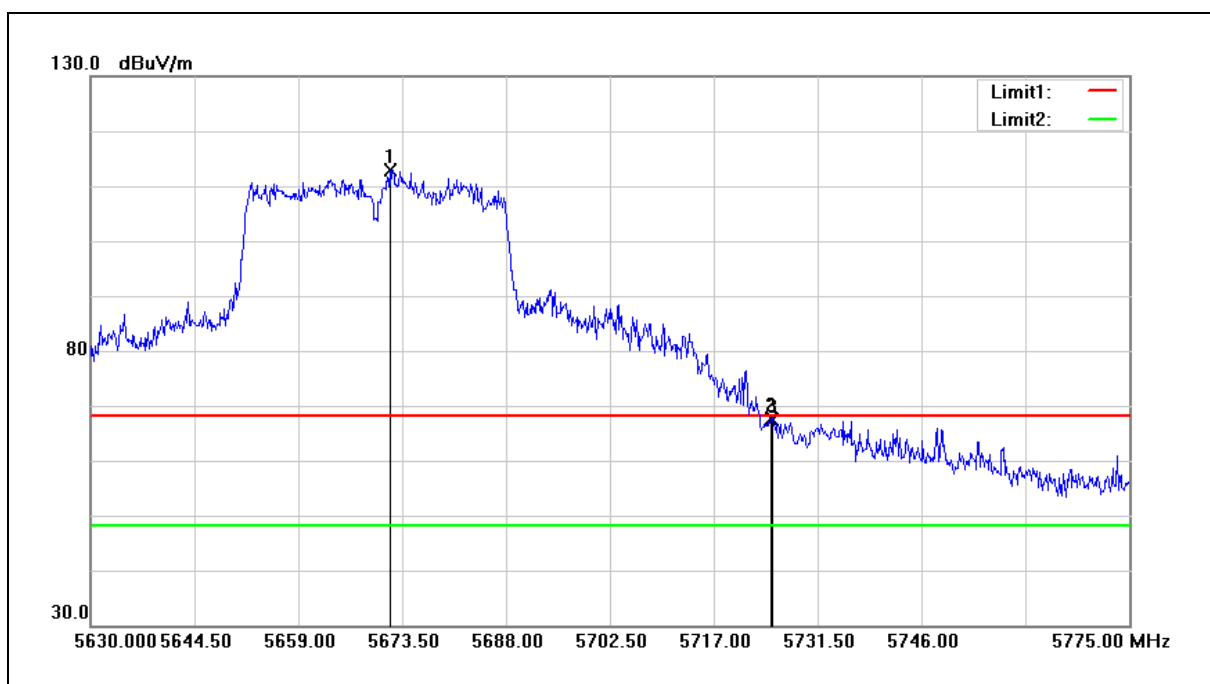
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5667.700	98.70	8.08	106.78	68.20	38.58	peak
2	5725.000	54.13	8.10	62.23	68.20	-5.97	peak
3	5730.195	55.70	8.13	63.83	68.20	-4.37	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5670 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



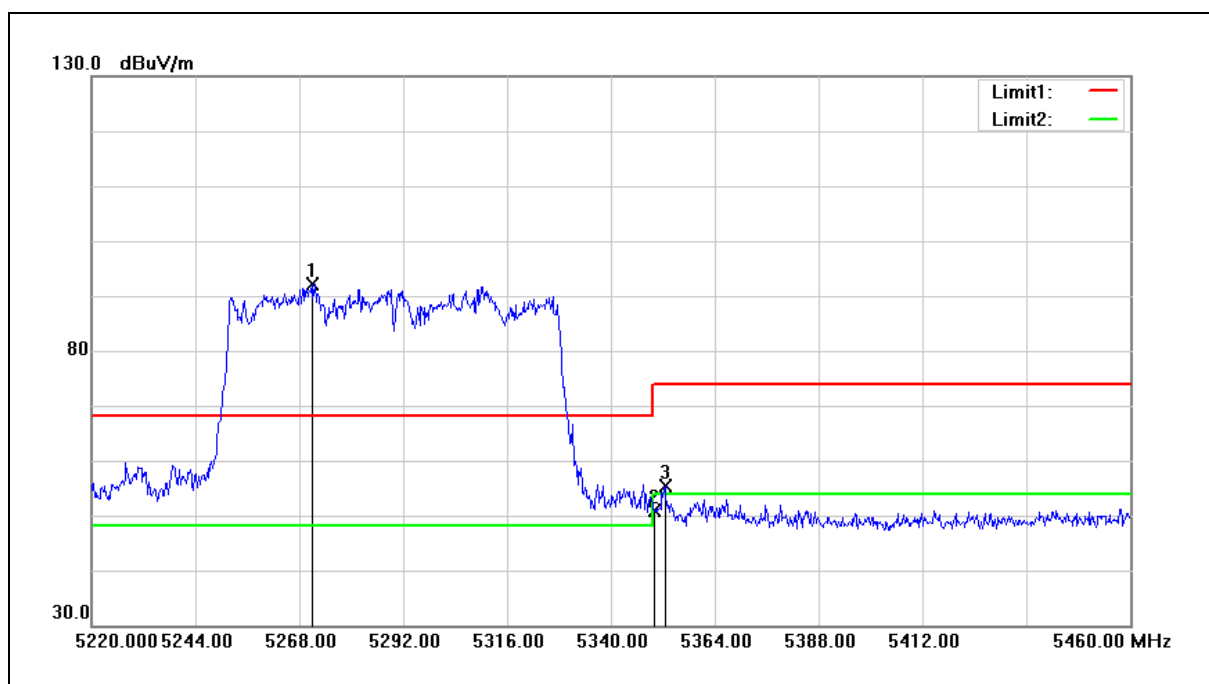
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5671.760	104.76	8.07	112.83	68.20	44.63	peak
2	5725.000	59.57	8.10	67.67	68.20	-0.53	peak
3	5725.265	59.35	8.10	67.45	68.20	-0.75	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5290 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Horizontal		



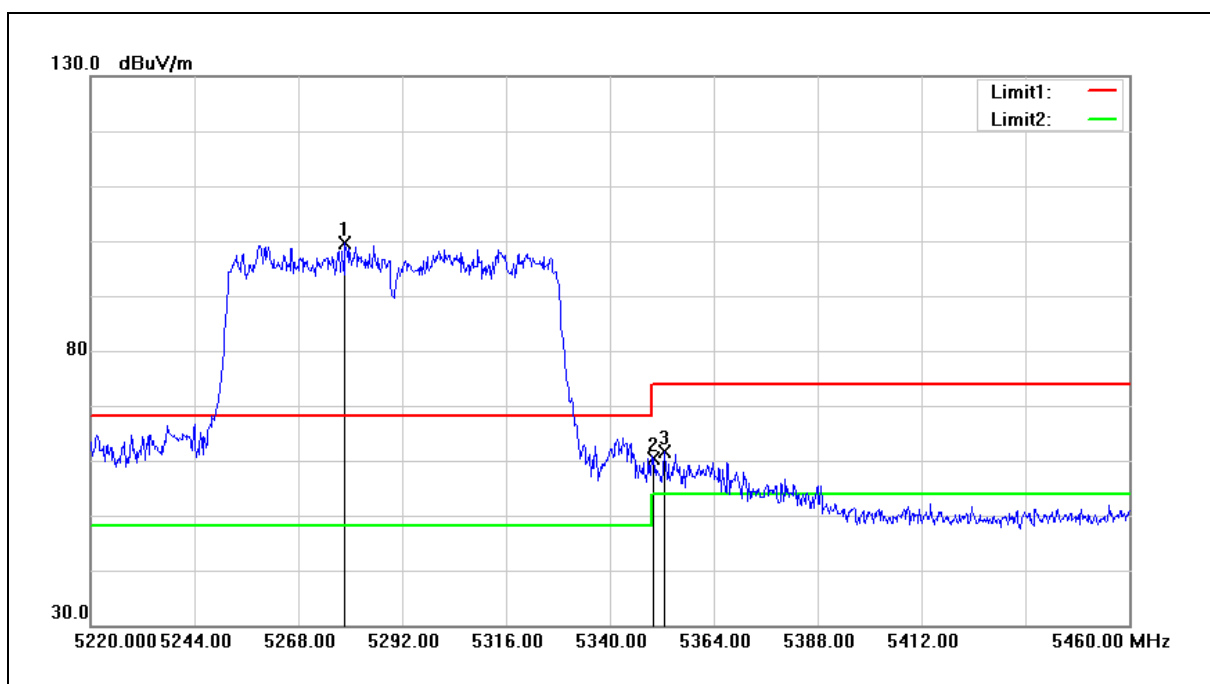
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5270.880	84.84	7.34	92.18	68.20	23.98	peak
2	5350.000	43.49	7.30	50.79	74.00	-23.21	peak
3	5352.480	48.17	7.30	55.47	74.00	-18.53	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5290 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Vertical		



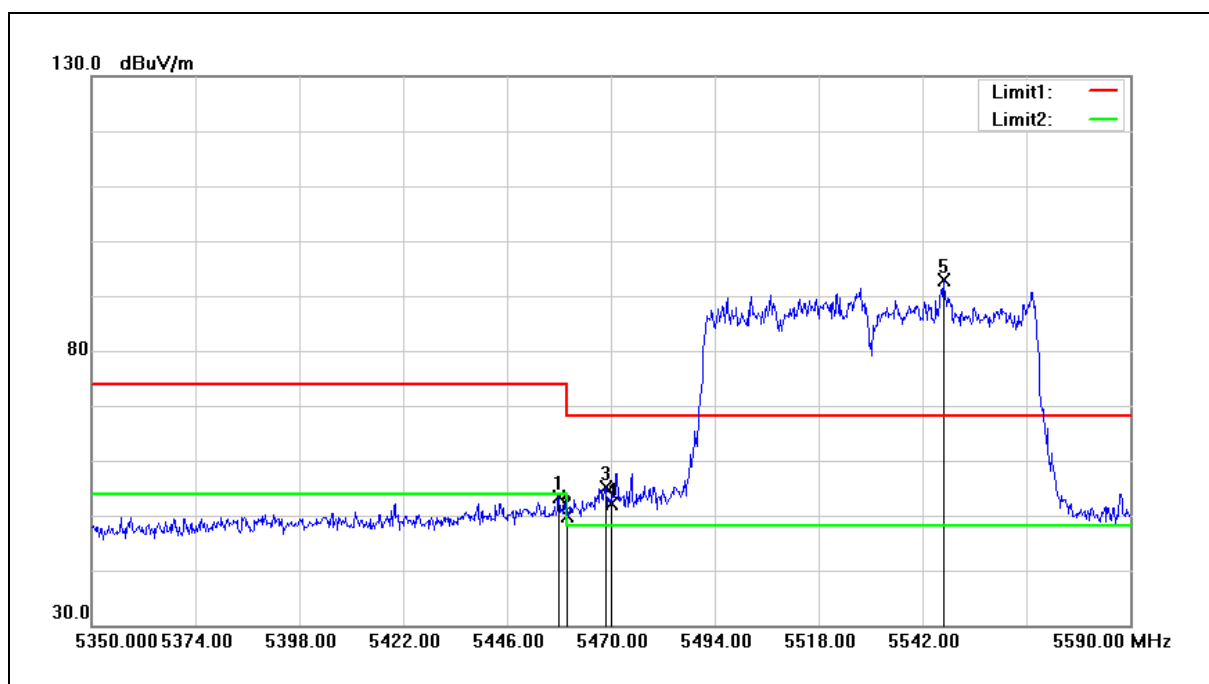
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5278.800	92.19	7.35	99.54	68.20	31.34	peak
2	5350.000	53.16	7.30	60.46	74.00	-13.54	peak
3	5352.480	54.27	7.30	61.57	74.00	-12.43	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5530 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Horizontal		



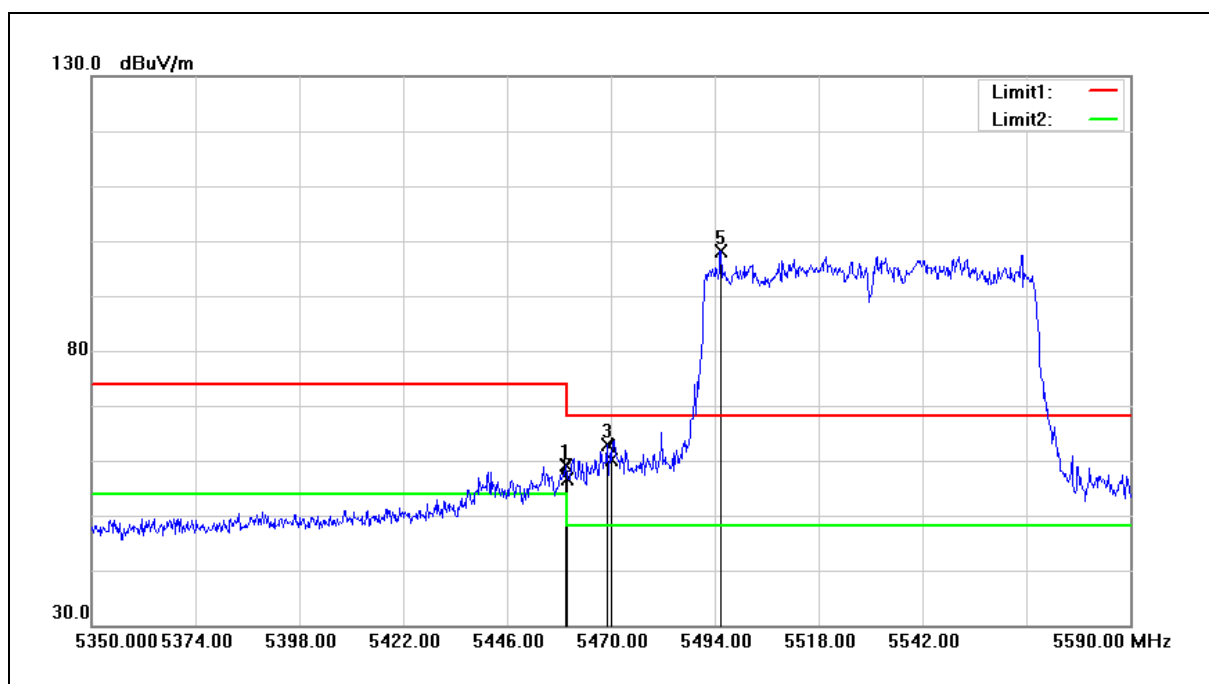
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.000	45.54	7.72	53.26	74.00	-20.74	peak
2	5460.000	42.02	7.74	49.76	74.00	-24.24	peak
3	5468.800	47.38	7.82	55.20	68.20	-13.00	peak
4	5470.000	44.31	7.83	52.14	68.20	-16.06	peak
5	5546.800	84.95	7.90	92.85	68.20	24.65	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:	5530 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.680	51.28	7.74	59.02	74.00	-14.98	peak
2	5460.000	48.95	7.74	56.69	74.00	-17.31	peak
3	5469.040	54.97	7.82	62.79	68.20	-5.41	peak
4	5470.000	52.31	7.83	60.14	68.20	-8.06	peak
5	5495.440	90.15	8.05	98.20	68.20	30.00	peak

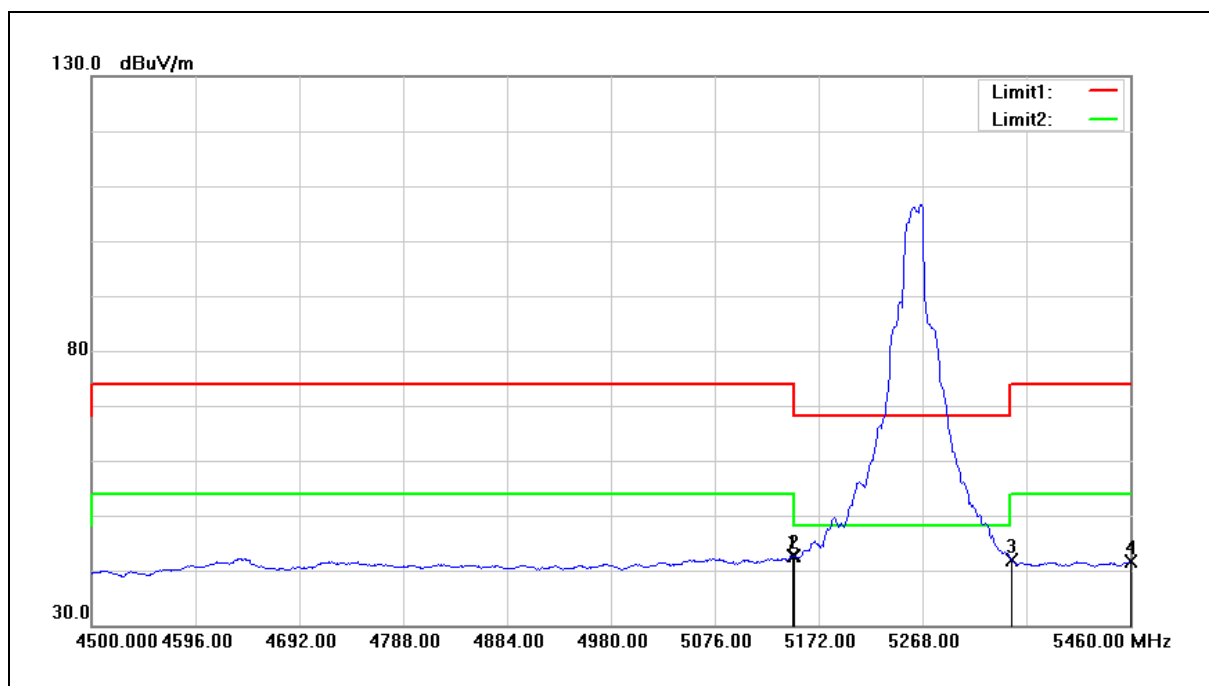
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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

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

Average

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5260 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



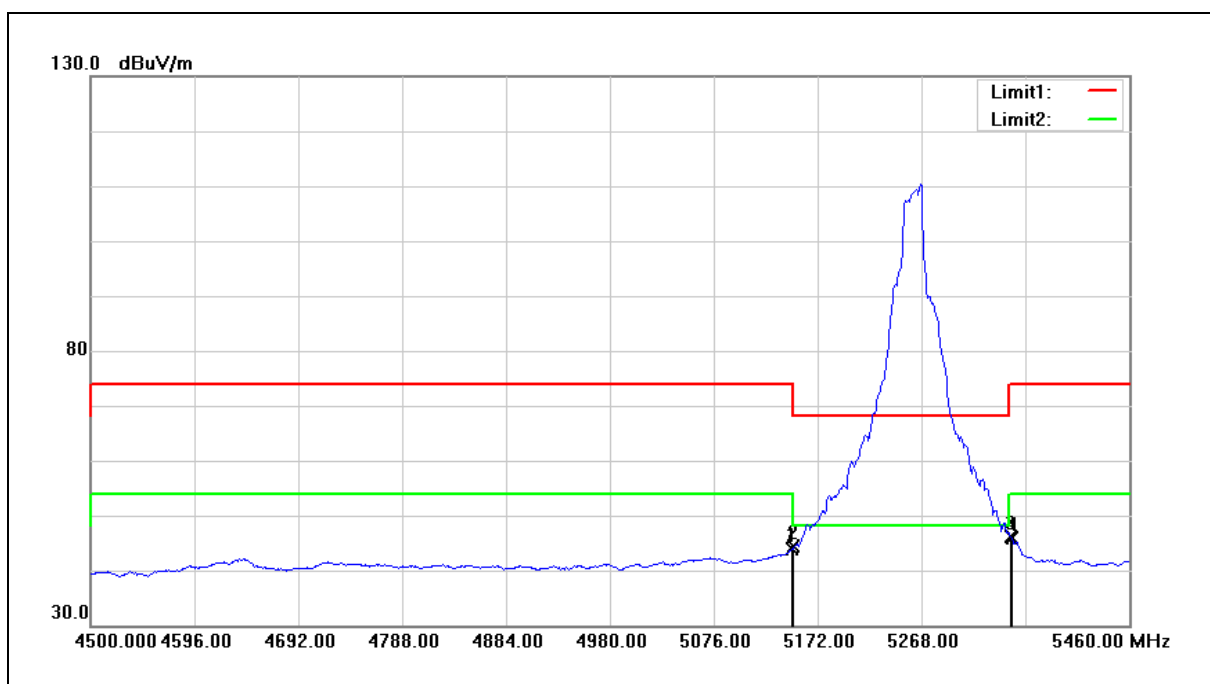
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5148.000	34.98	7.65	42.63	54.00	-11.37	AVG
2	5150.000	34.90	7.66	42.56	54.00	-11.44	AVG
3	5350.000	34.51	7.30	41.81	54.00	-12.19	AVG
4	5460.000	33.99	7.74	41.73	54.00	-12.27	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5260 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



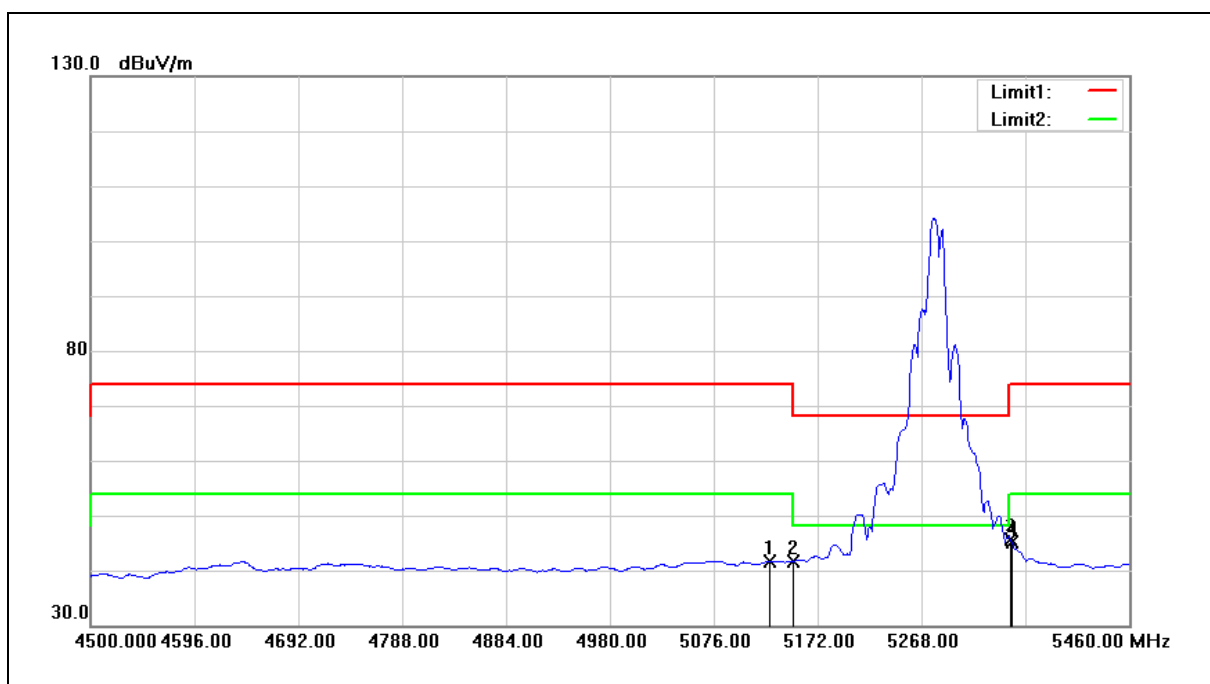
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5148.000	36.13	7.65	43.78	54.00	-10.22	AVG
2	5150.000	36.79	7.66	44.45	54.00	-9.55	AVG
3	5350.000	38.75	7.30	46.05	54.00	-7.95	AVG
4	5351.520	38.55	7.30	45.85	54.00	-8.15	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5280 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



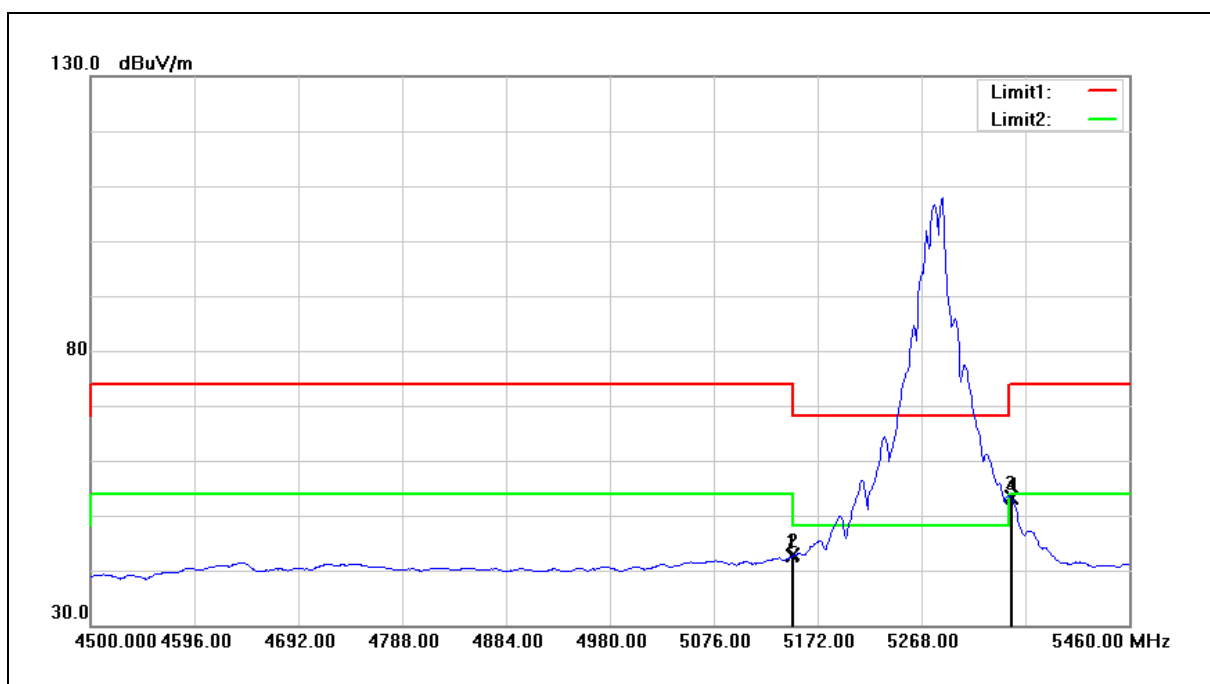
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5127.840	34.07	7.68	41.75	54.00	-12.25	AVG
2	5150.000	34.08	7.66	41.74	54.00	-12.26	AVG
3	5350.000	38.39	7.30	45.69	54.00	-8.31	AVG
4	5351.520	37.88	7.30	45.18	54.00	-8.82	AVG

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:	5280 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



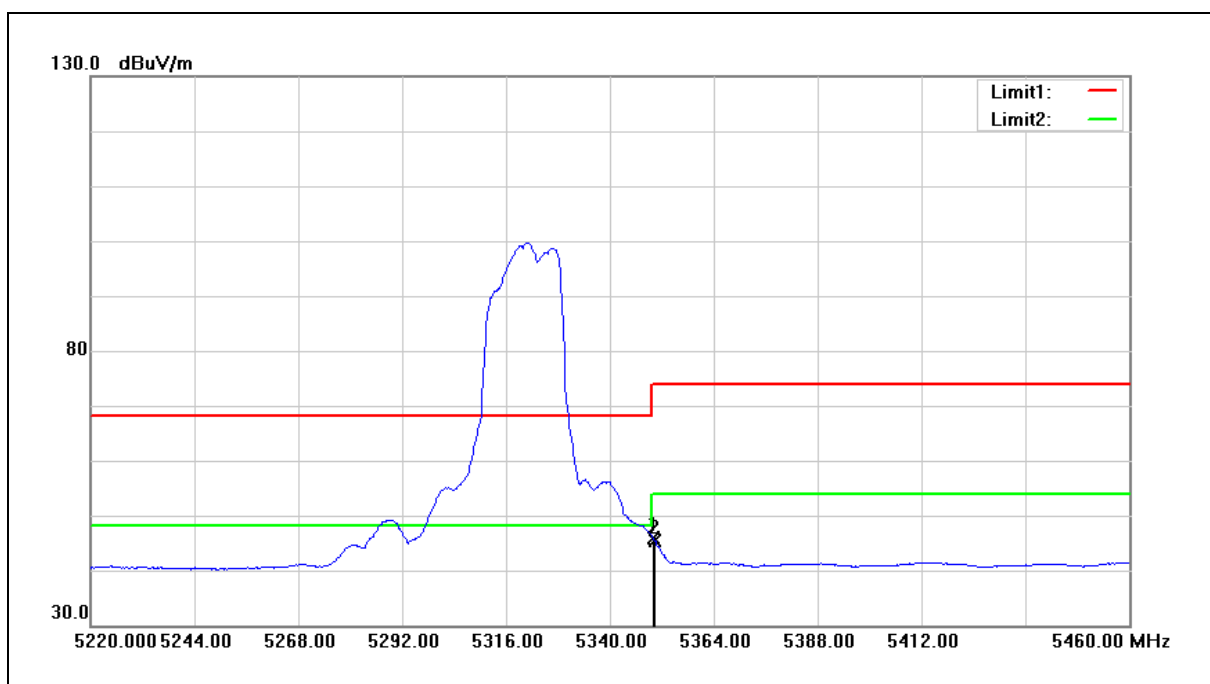
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5148.000	34.92	7.65	42.57	54.00	-11.43	AVG
2	5150.000	35.10	7.66	42.76	54.00	-11.24	AVG
3	5350.000	46.07	7.30	53.37	54.00	-0.63	AVG
4	5351.520	45.89	7.30	53.19	54.00	-0.81	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5320 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



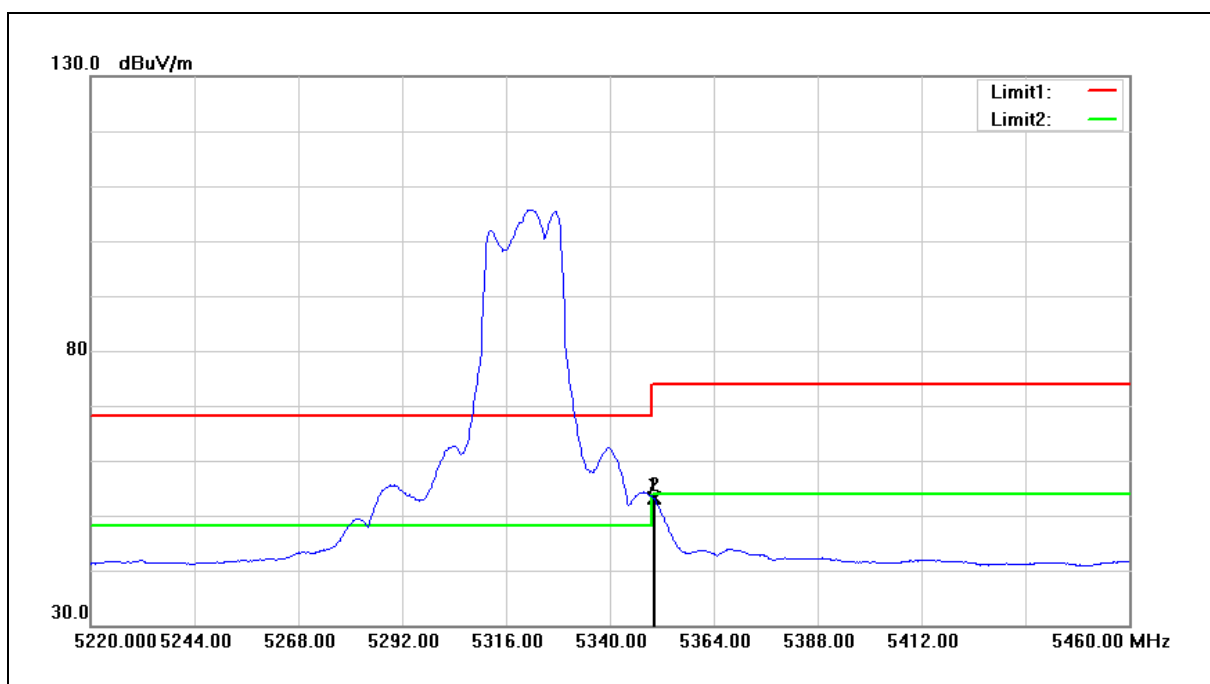
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	38.61	7.30	45.91	54.00	-8.09	AVG
2	5350.320	38.10	7.30	45.40	54.00	-8.60	AVG

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:	5320 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



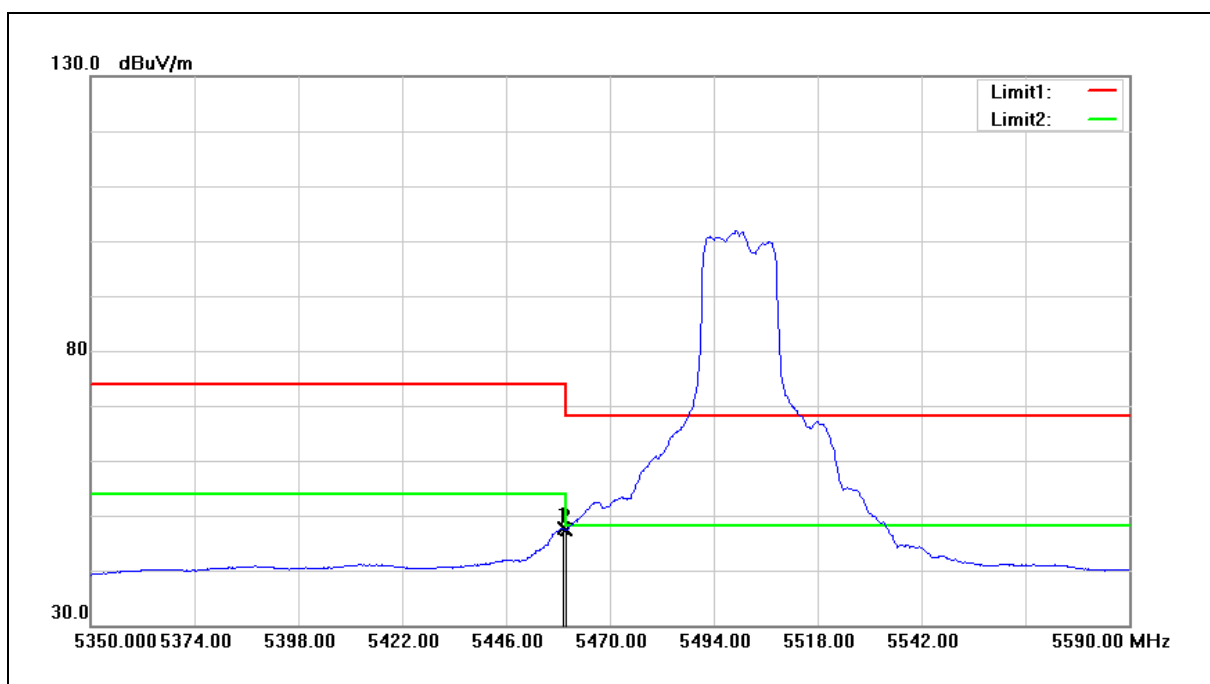
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	45.79	7.30	53.09	54.00	-0.91	AVG
2	5350.320	45.76	7.30	53.06	54.00	-0.94	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5500 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



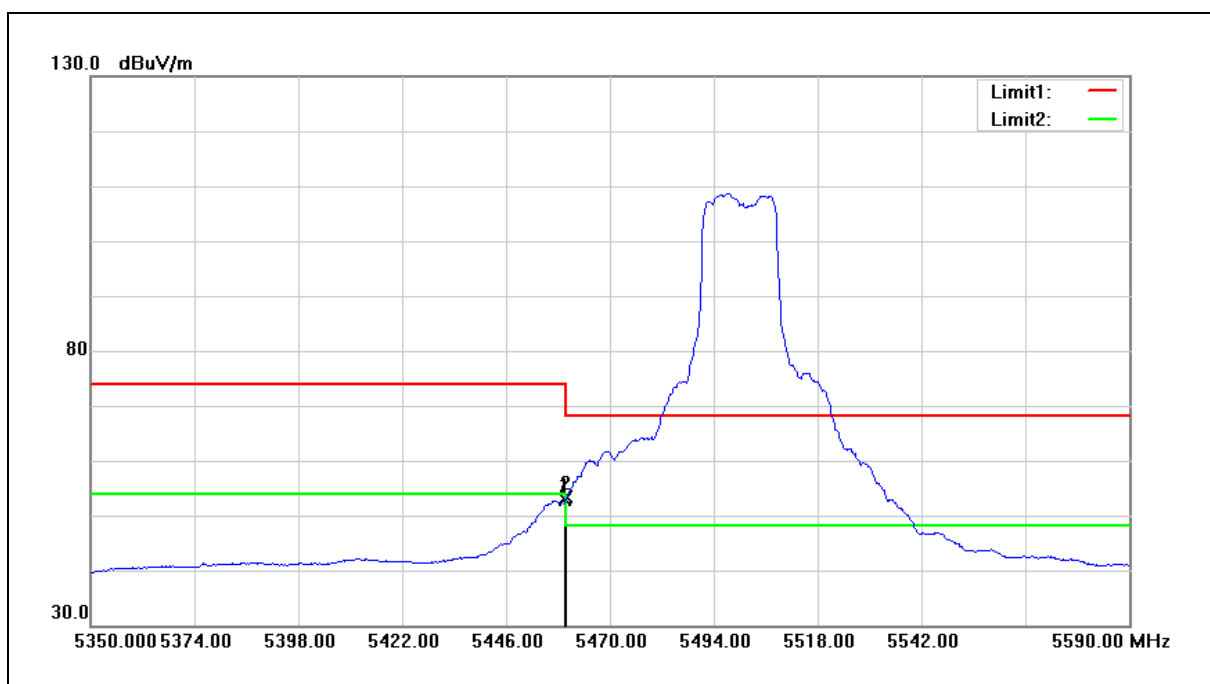
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.200	39.86	7.73	47.59	54.00	-6.41	AVG
2	5460.000	39.68	7.74	47.42	54.00	-6.58	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5500 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



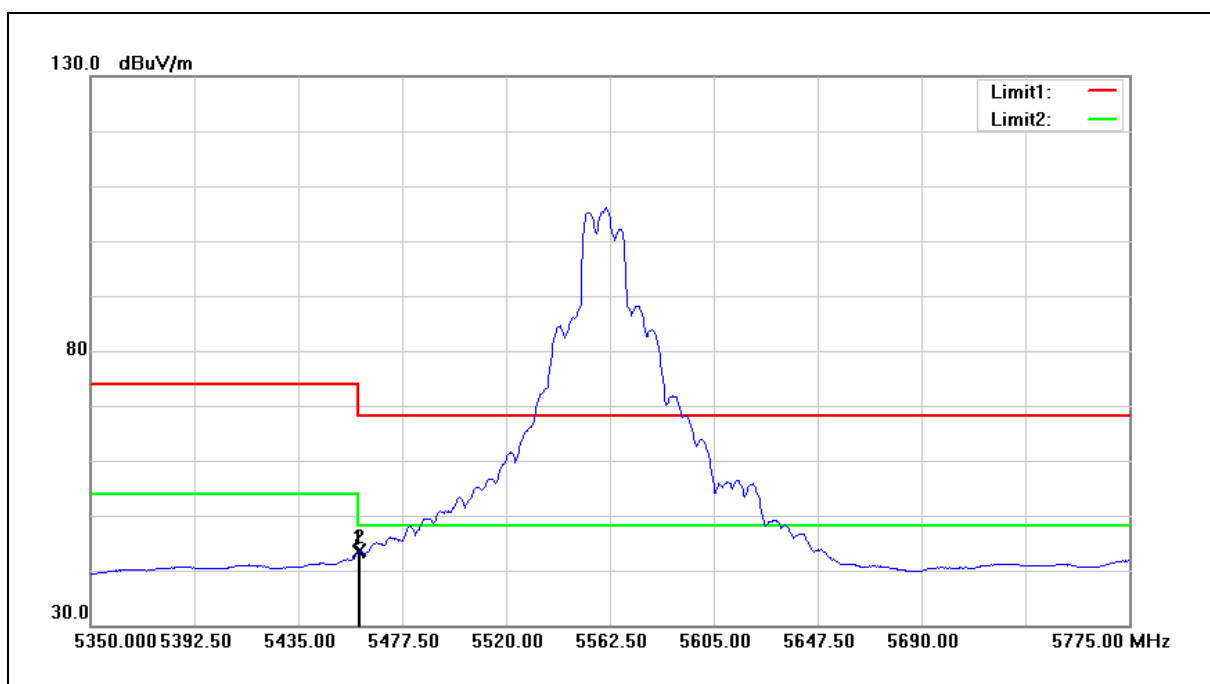
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.680	45.05	7.74	52.79	54.00	-1.21	AVG
2	5460.000	45.69	7.74	53.43	54.00	-0.57	AVG

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:	5560 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



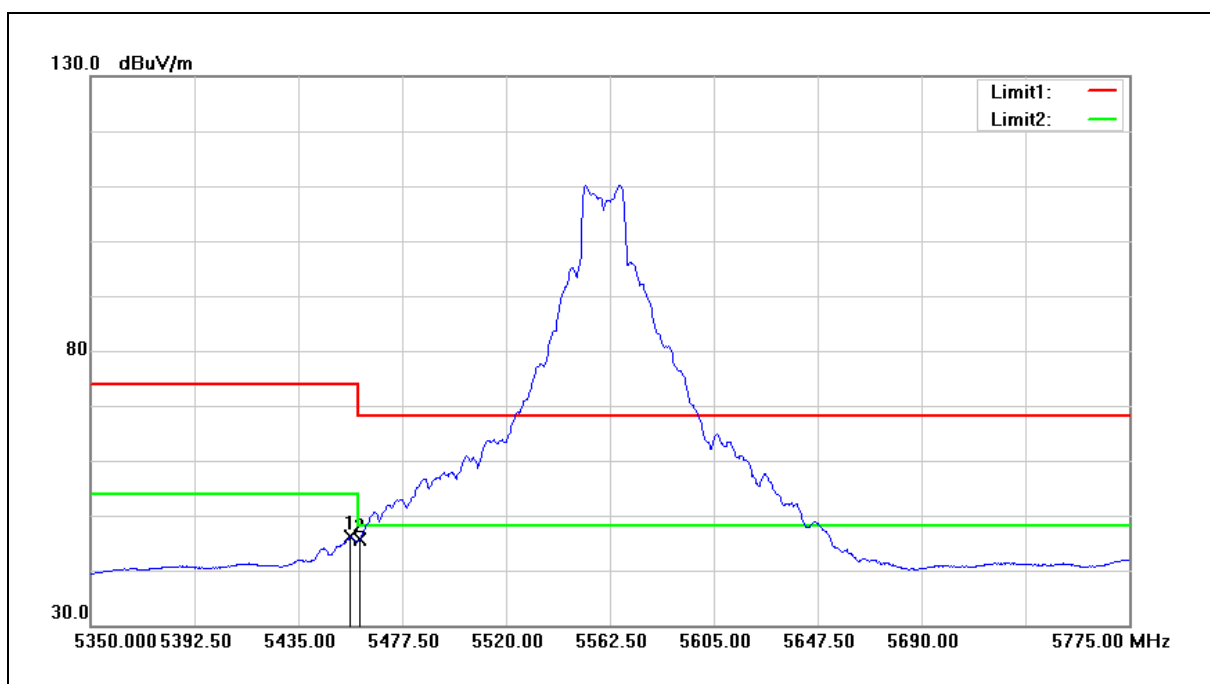
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.650	35.67	7.74	43.41	54.00	-10.59	AVG
2	5460.000	35.81	7.74	43.55	54.00	-10.45	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5560 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



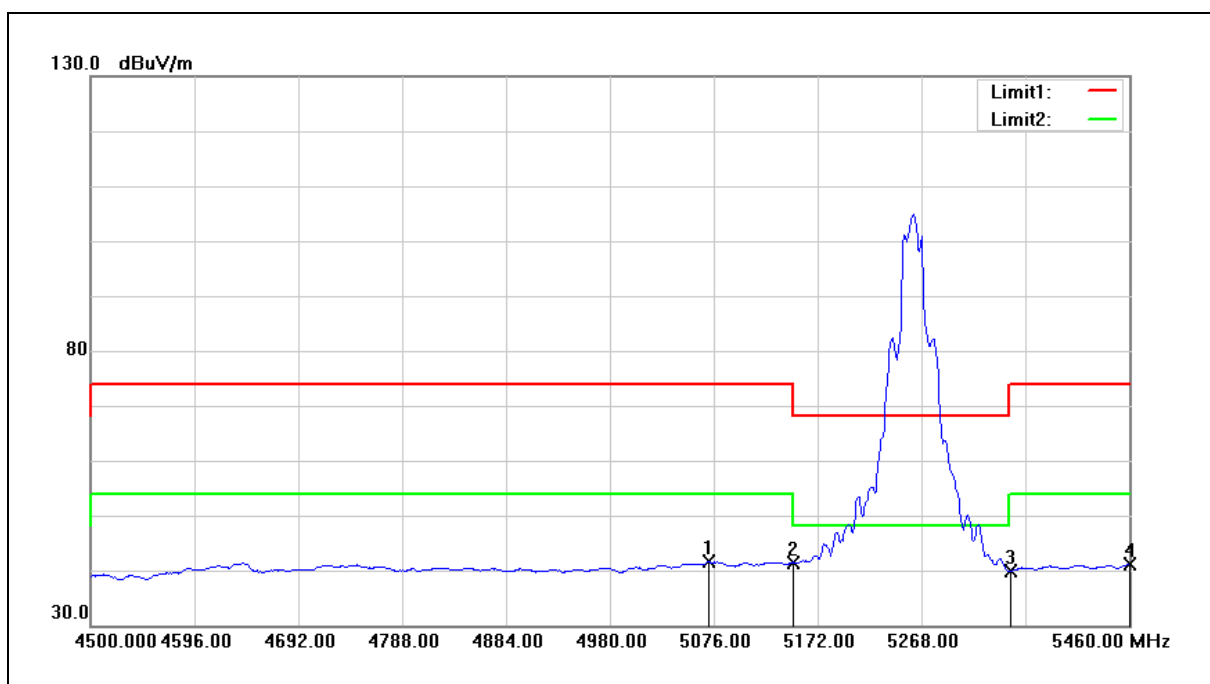
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5456.250	38.41	7.71	46.12	54.00	-7.88	AVG
2	5460.000	37.85	7.74	45.59	54.00	-8.41	AVG

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:	5260 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



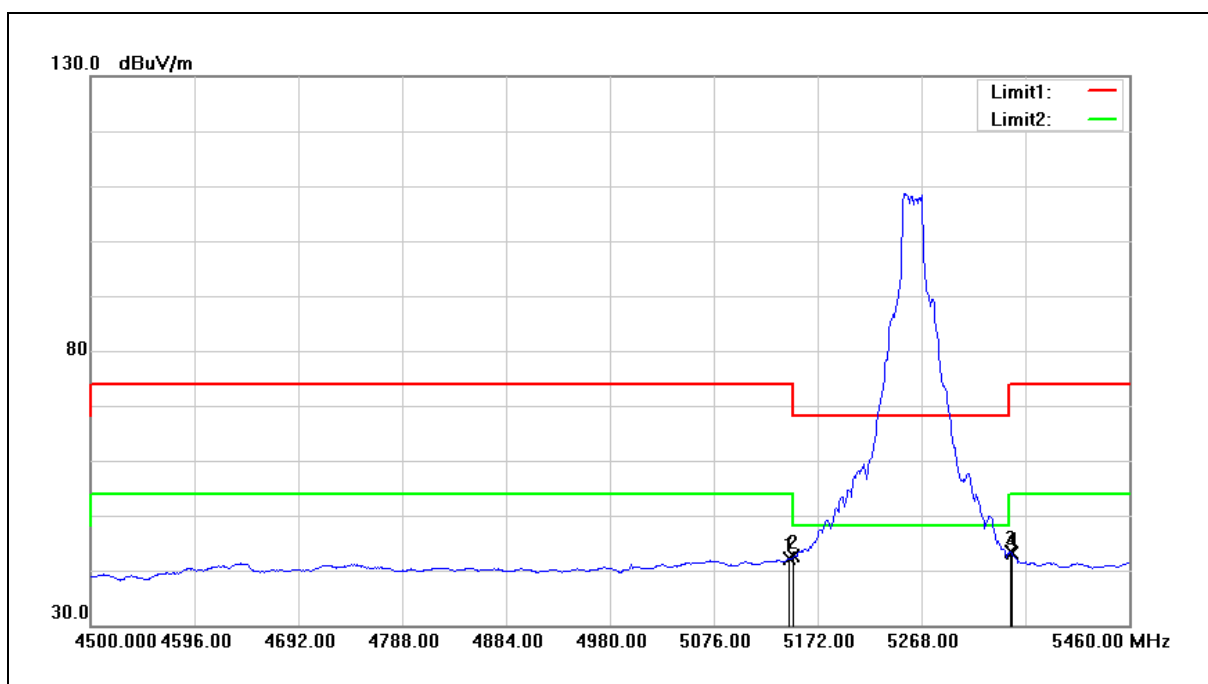
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5071.200	34.02	7.54	41.56	54.00	-12.44	AVG
2	5150.000	33.79	7.66	41.45	54.00	-12.55	AVG
3	5350.000	32.61	7.30	39.91	54.00	-14.09	AVG
4	5460.000	33.34	7.74	41.08	54.00	-12.92	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5260 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



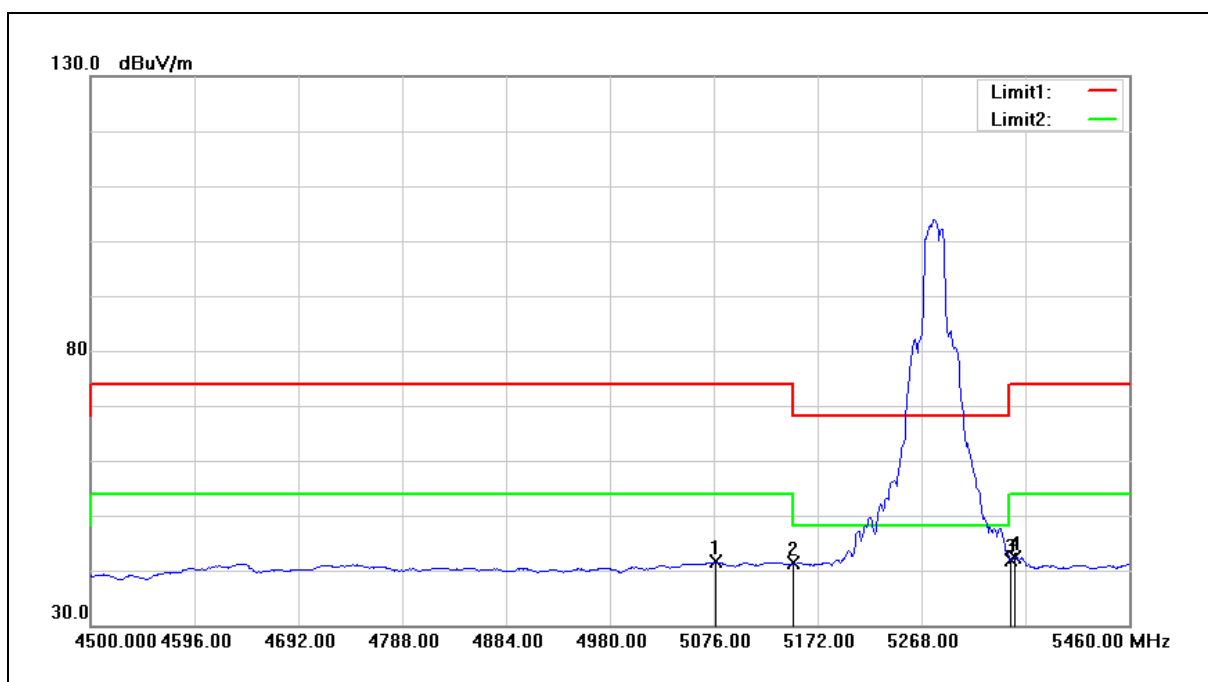
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.120	34.55	7.66	42.21	54.00	-11.79	AVG
2	5150.000	34.85	7.66	42.51	54.00	-11.49	AVG
3	5350.000	36.05	7.30	43.35	54.00	-10.65	AVG
4	5351.520	35.75	7.30	43.05	54.00	-10.95	AVG

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:	5280 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



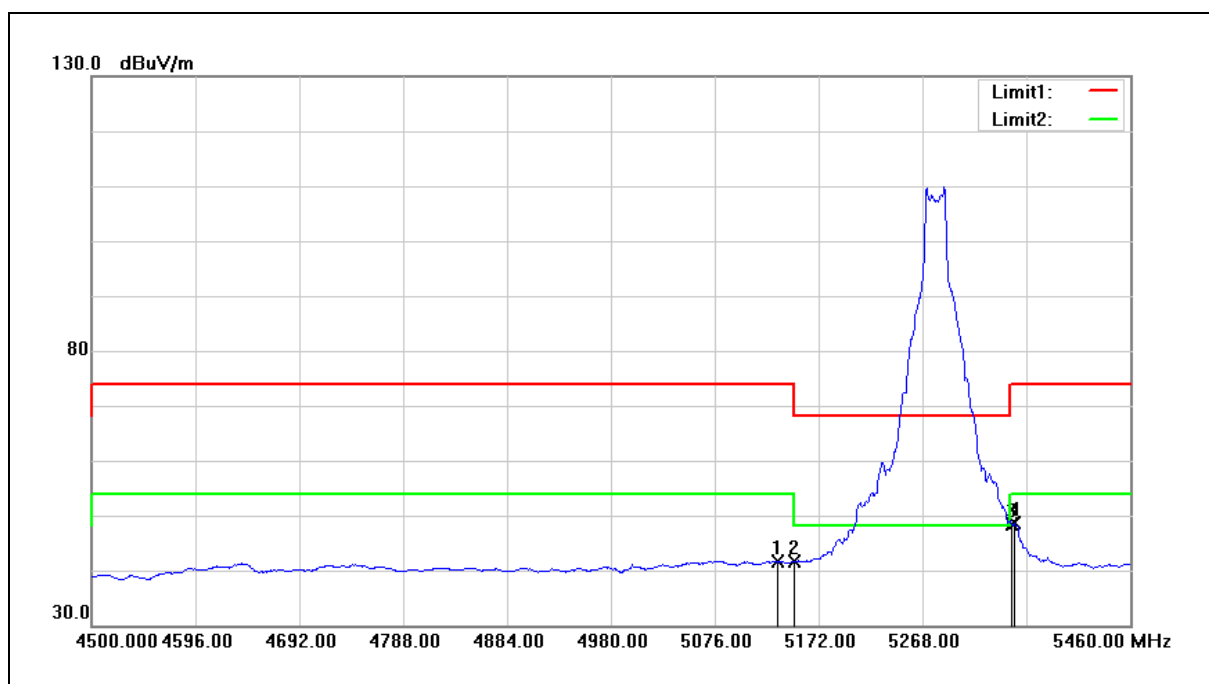
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5077.920	33.94	7.58	41.52	54.00	-12.48	AVG
2	5150.000	33.65	7.66	41.31	54.00	-12.69	AVG
3	5350.000	34.56	7.30	41.86	54.00	-12.14	AVG
4	5354.400	35.20	7.29	42.49	54.00	-11.51	AVG

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:	5280 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



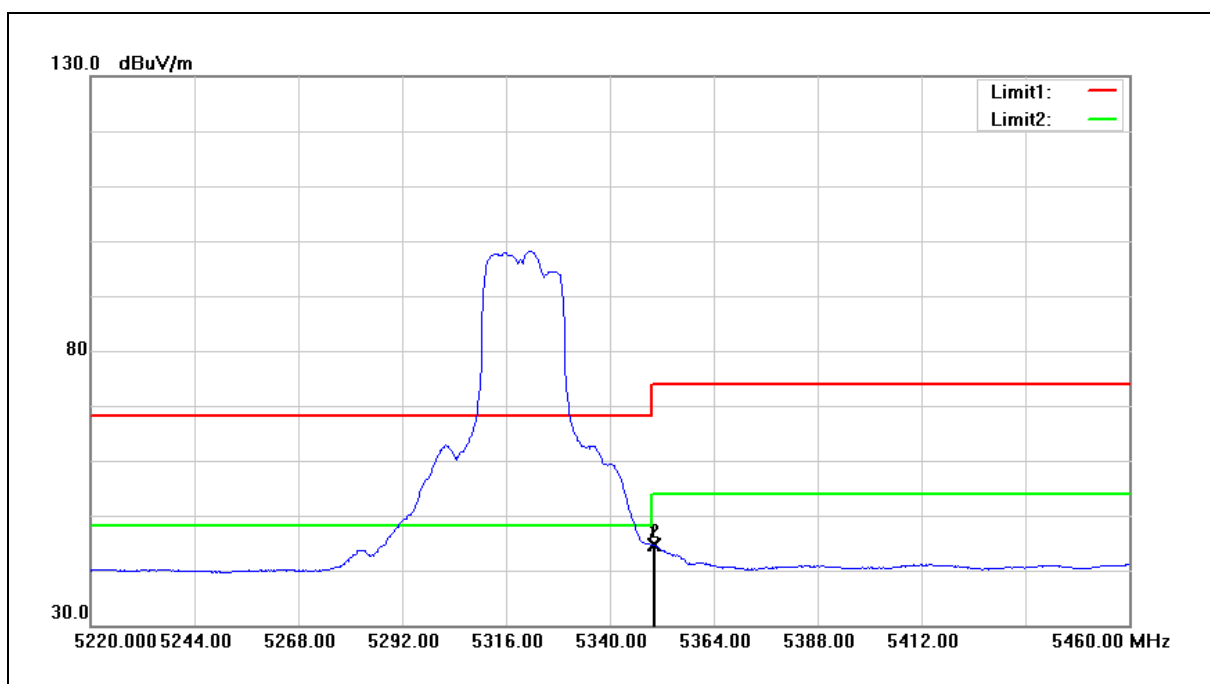
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5134.560	34.03	7.67	41.70	54.00	-12.30	AVG
2	5150.000	34.07	7.66	41.73	54.00	-12.27	AVG
3	5350.000	41.16	7.30	48.46	54.00	-5.54	AVG
4	5353.440	41.27	7.29	48.56	54.00	-5.44	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5320 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



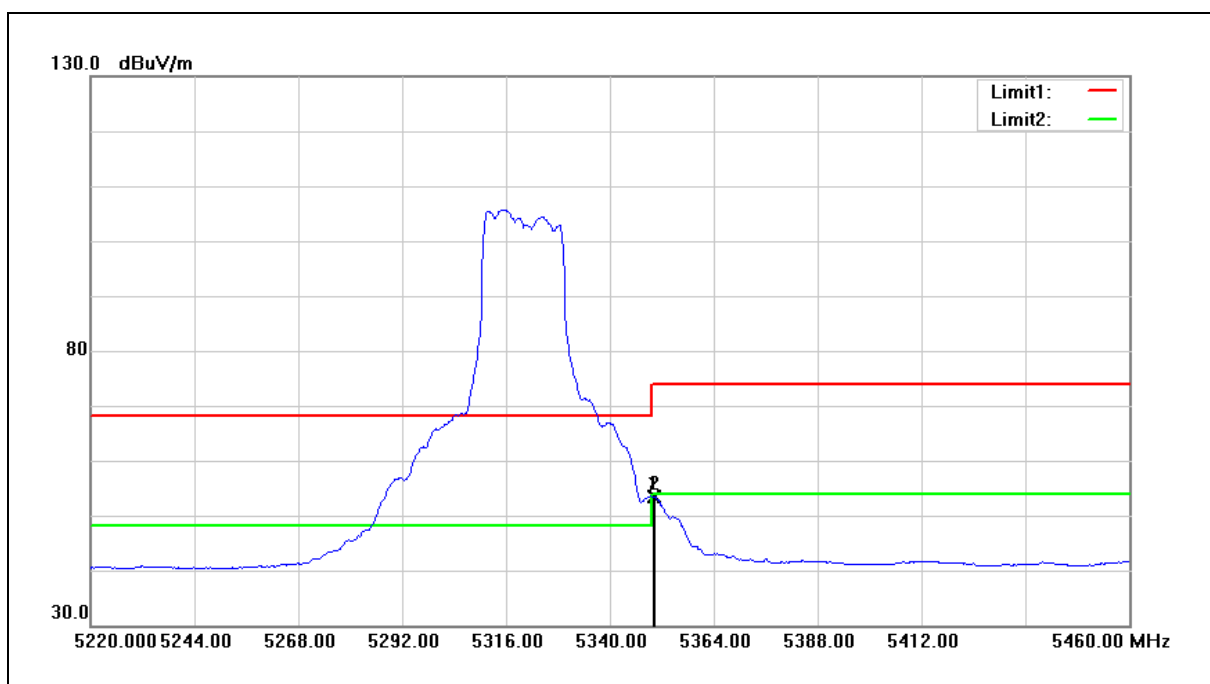
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	37.29	7.30	44.59	54.00	-9.41	AVG
2	5350.320	37.31	7.30	44.61	54.00	-9.39	AVG

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:	5320 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



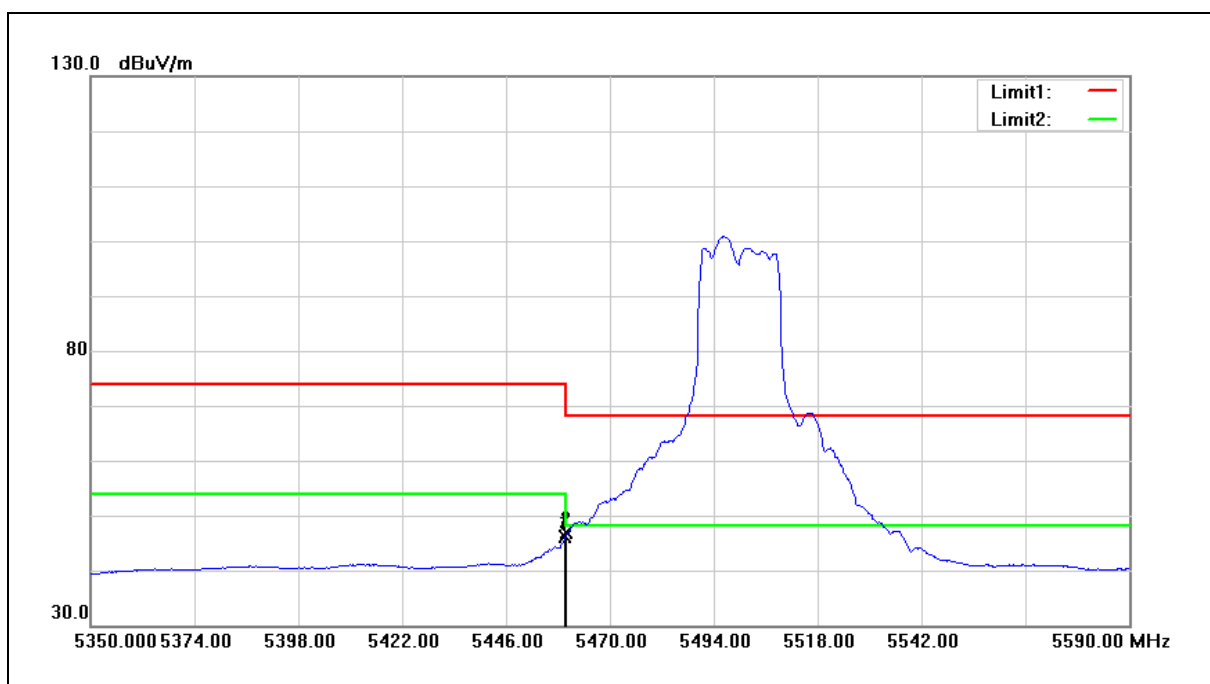
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	46.01	7.30	53.31	54.00	-0.69	AVG
2	5350.320	46.16	7.30	53.46	54.00	-0.54	AVG

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:	5500 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



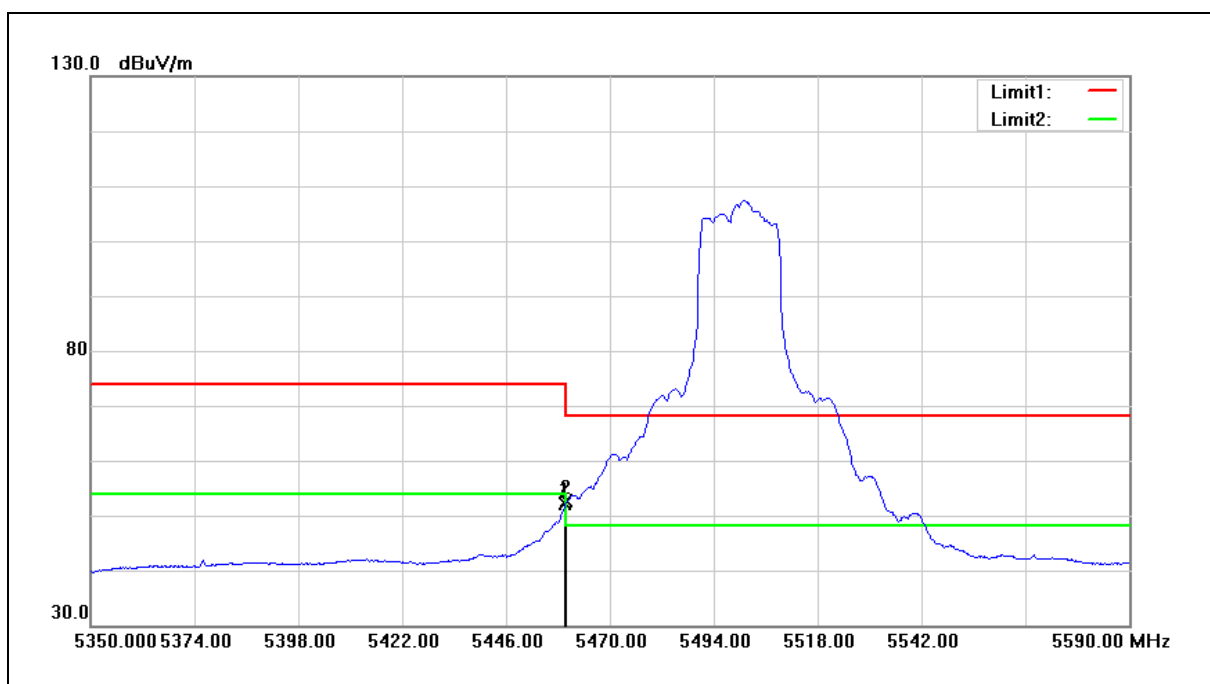
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.680	38.34	7.74	46.08	54.00	-7.92	AVG
2	5460.000	39.23	7.74	46.97	54.00	-7.03	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5500 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



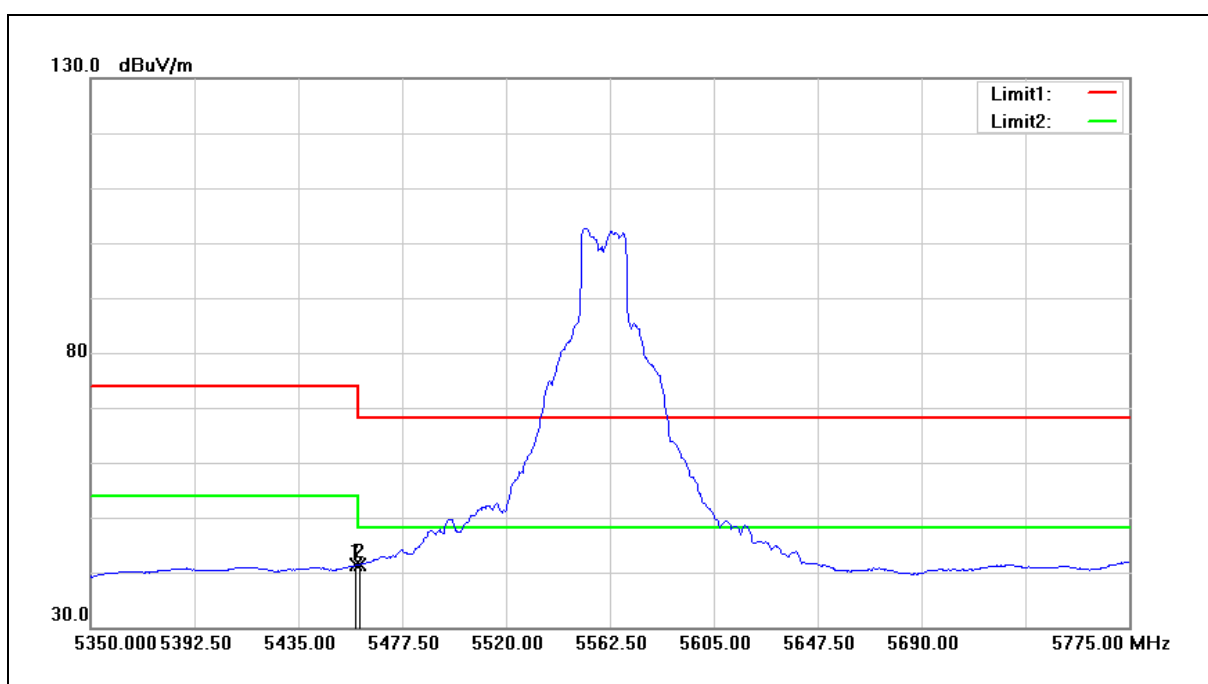
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.680	44.36	7.74	52.10	54.00	-1.90	AVG
2	5460.000	44.92	7.74	52.66	54.00	-1.34	AVG

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:	5560 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



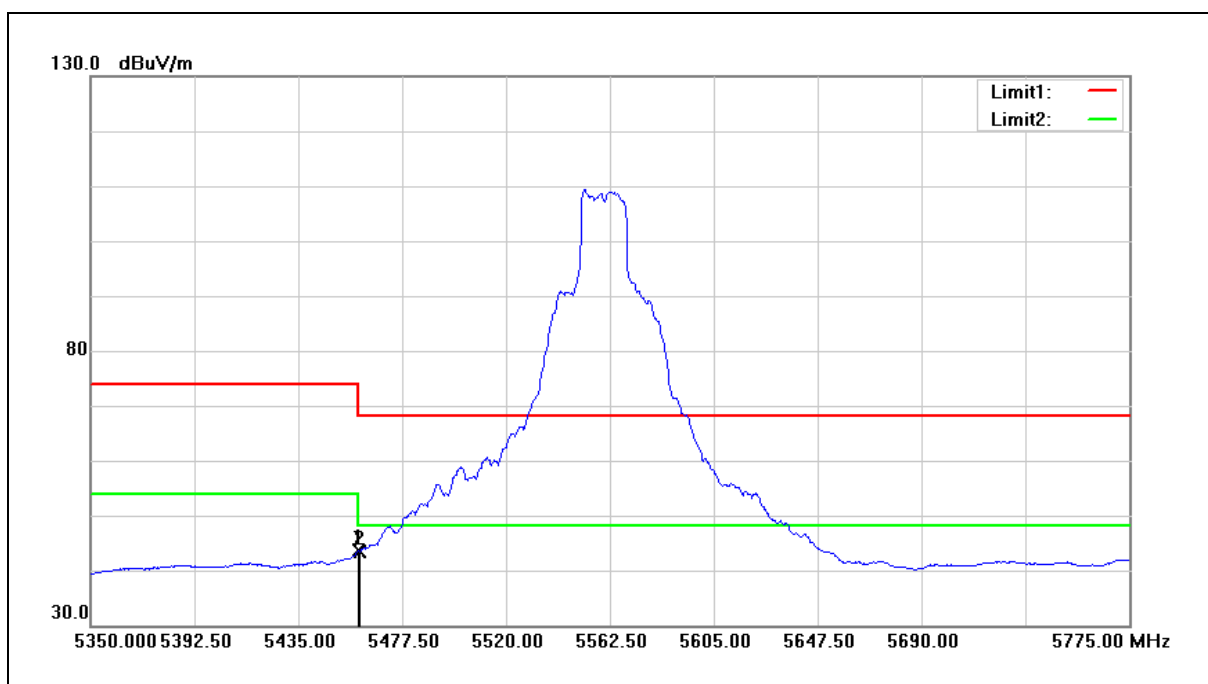
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.375	33.61	7.73	41.34	54.00	-12.66	AVG
2	5460.000	33.69	7.74	41.43	54.00	-12.57	AVG

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:	5560 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



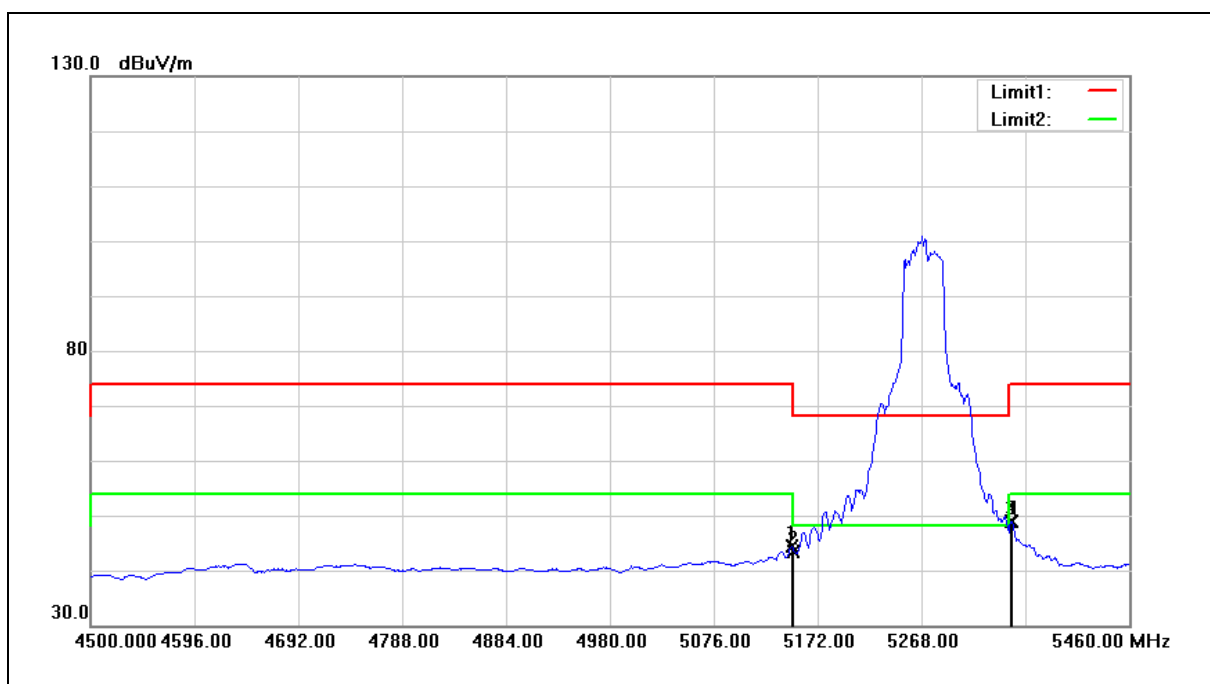
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.650	35.81	7.74	43.55	54.00	-10.45	AVG
2	5460.000	35.75	7.74	43.49	54.00	-10.51	AVG

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:	5270 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



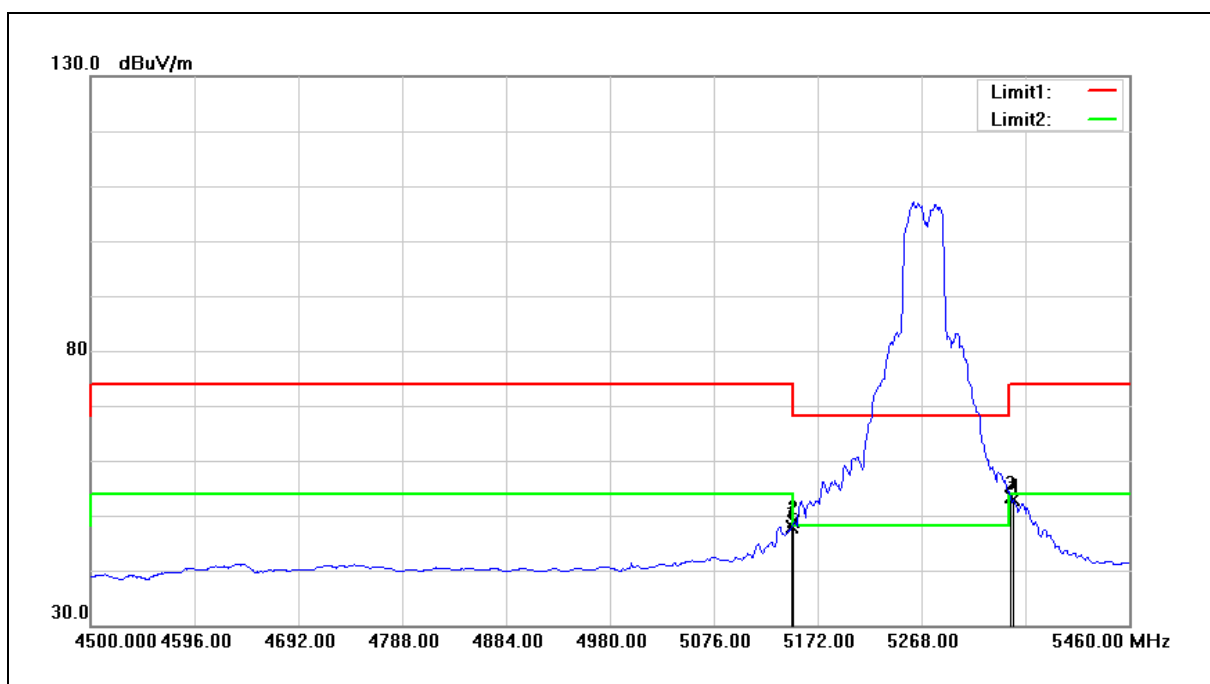
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5148.000	36.63	7.65	44.28	54.00	-9.72	AVG
2	5150.000	35.84	7.66	43.50	54.00	-10.50	AVG
3	5350.000	41.54	7.30	48.84	54.00	-5.16	AVG
4	5351.520	41.58	7.30	48.88	54.00	-5.12	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5270 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



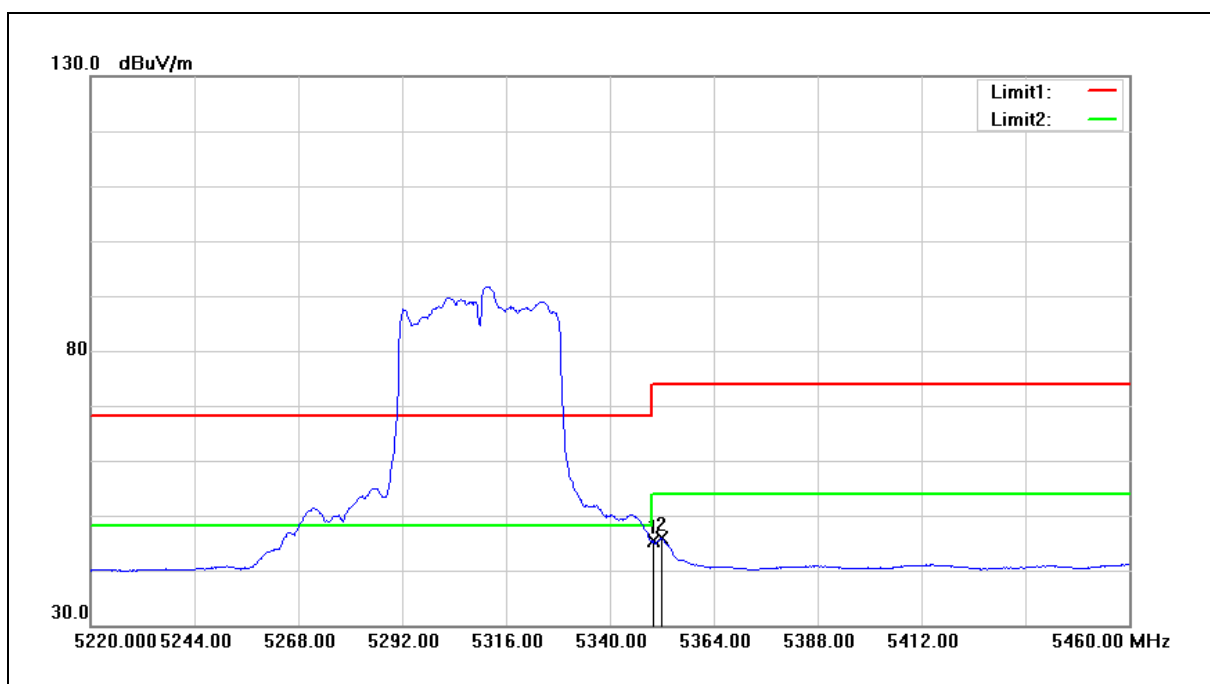
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5148.000	40.31	7.65	47.96	54.00	-6.04	AVG
2	5150.000	41.10	7.66	48.76	54.00	-5.24	AVG
3	5350.000	46.18	7.30	53.48	54.00	-0.52	AVG
4	5353.440	45.48	7.29	52.77	54.00	-1.23	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5310 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



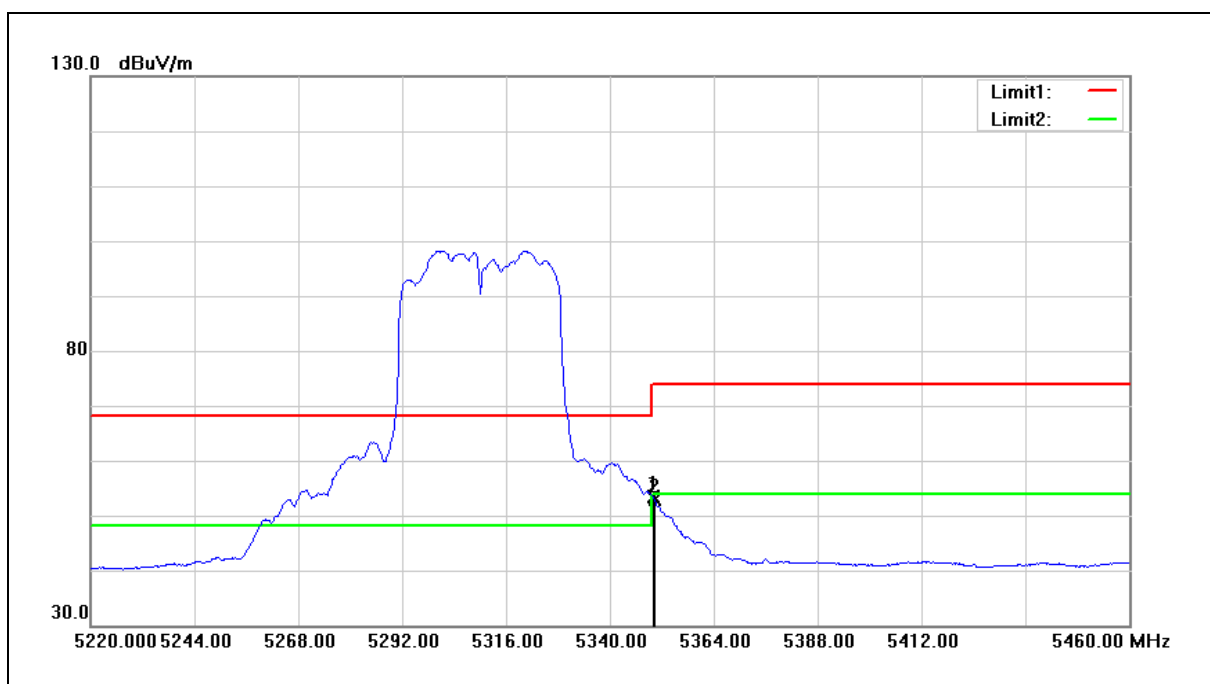
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	37.97	7.30	45.27	54.00	-8.73	AVG
2	5352.000	38.58	7.30	45.88	54.00	-8.12	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5310 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



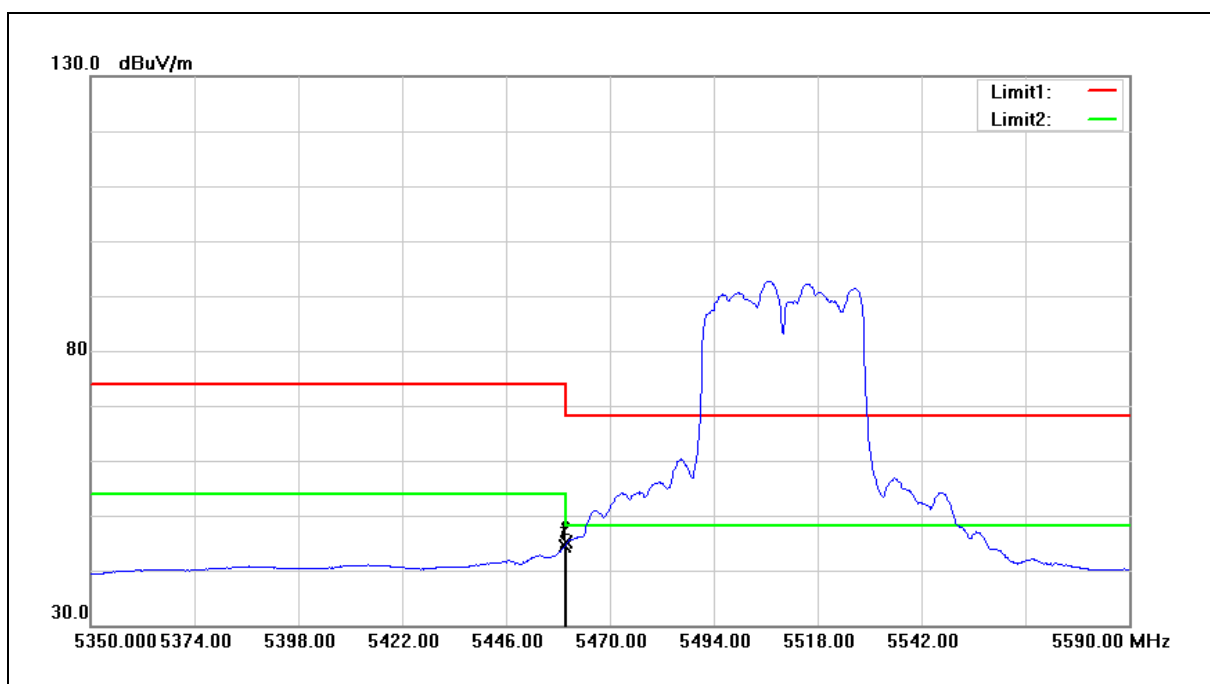
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	46.00	7.30	53.30	54.00	-0.70	AVG
2	5350.320	45.59	7.30	52.89	54.00	-1.11	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5510 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



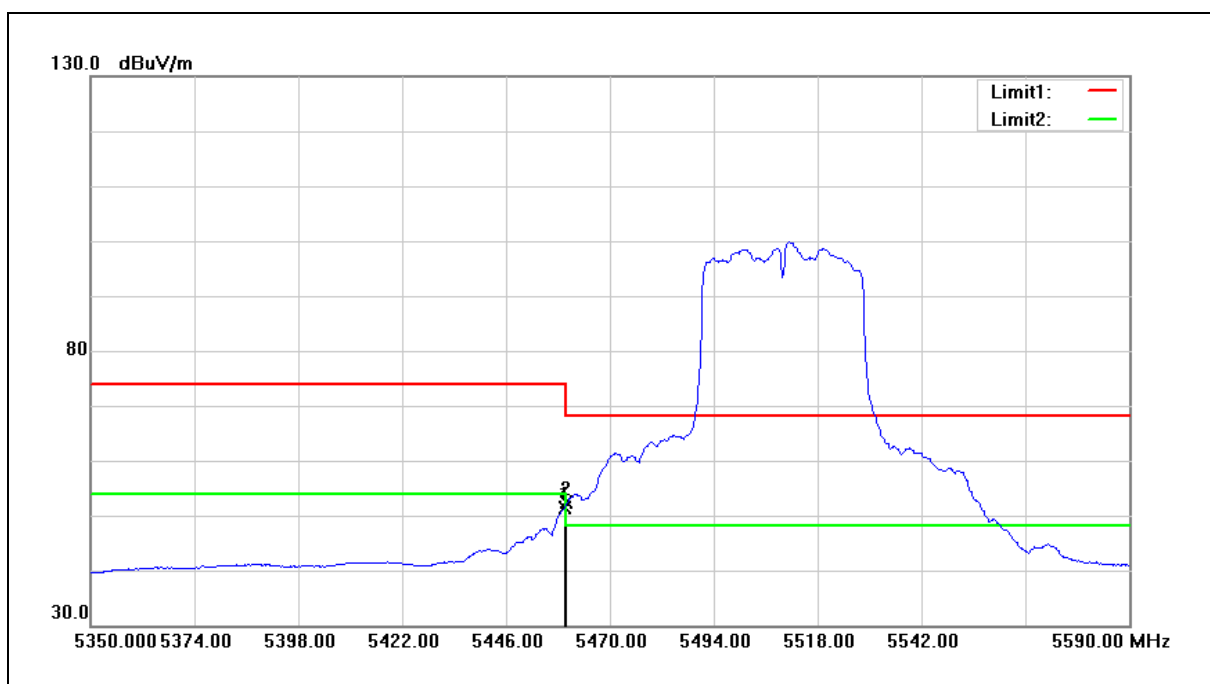
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.680	36.67	7.74	44.41	54.00	-9.59	AVG
2	5460.000	37.44	7.74	45.18	54.00	-8.82	AVG

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:	5510 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



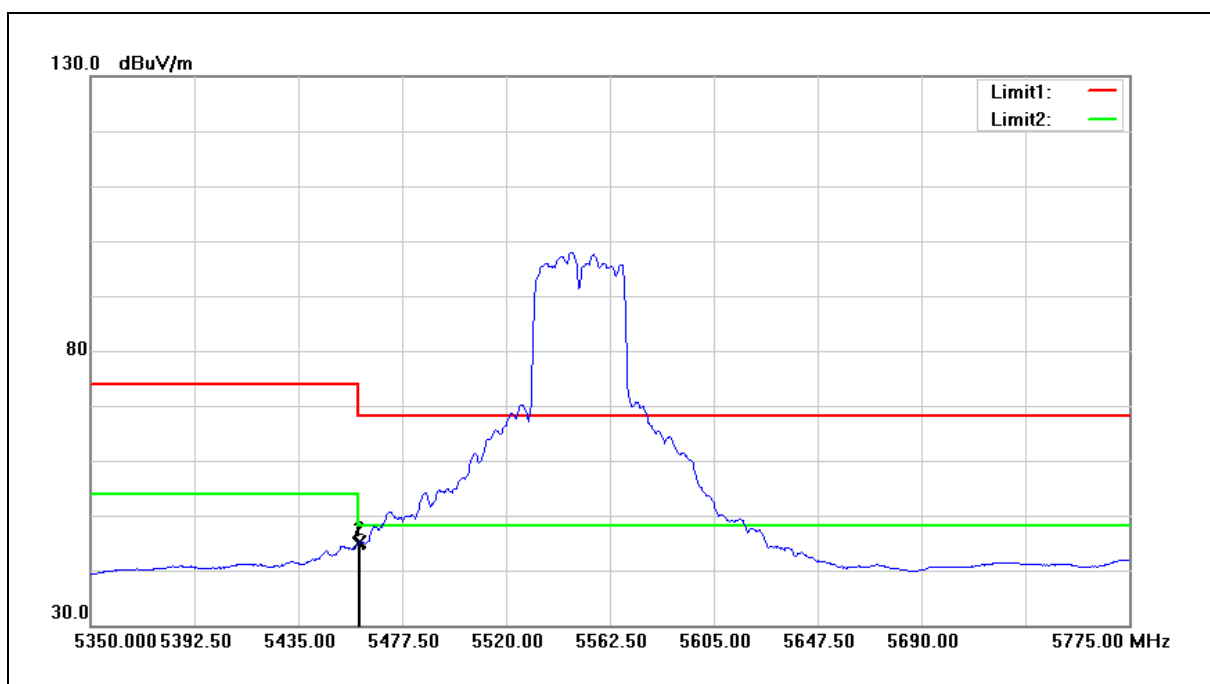
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.680	43.72	7.74	51.46	54.00	-2.54	AVG
2	5460.000	44.53	7.74	52.27	54.00	-1.73	AVG

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:	5550 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



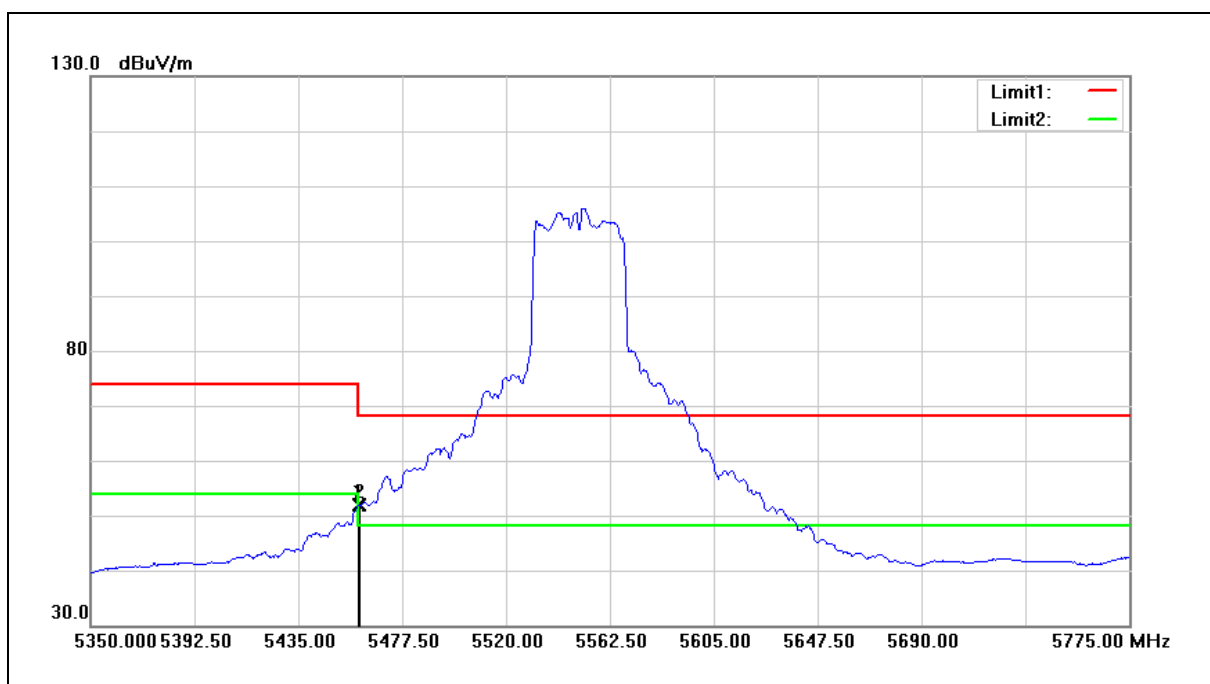
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.650	37.13	7.74	44.87	54.00	-9.13	AVG
2	5460.000	37.35	7.74	45.09	54.00	-8.91	AVG

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:	5550 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



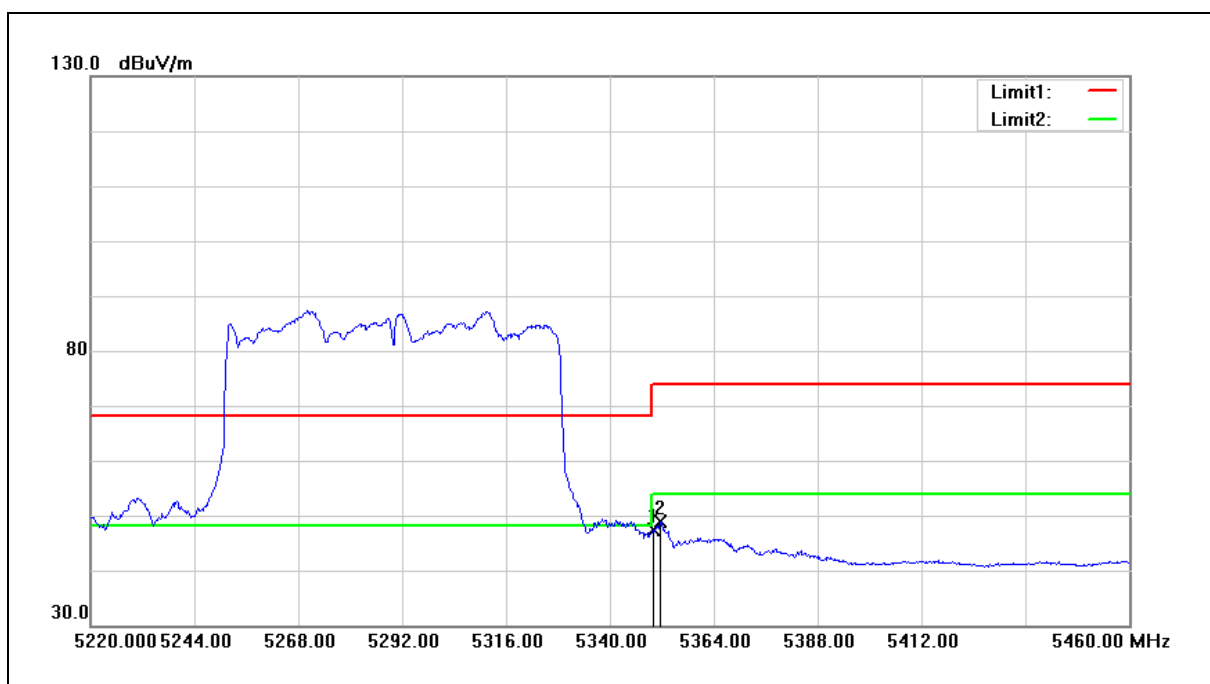
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.650	44.13	7.74	51.87	54.00	-2.13	AVG
2	5460.000	44.07	7.74	51.81	54.00	-2.19	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5290 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Horizontal		



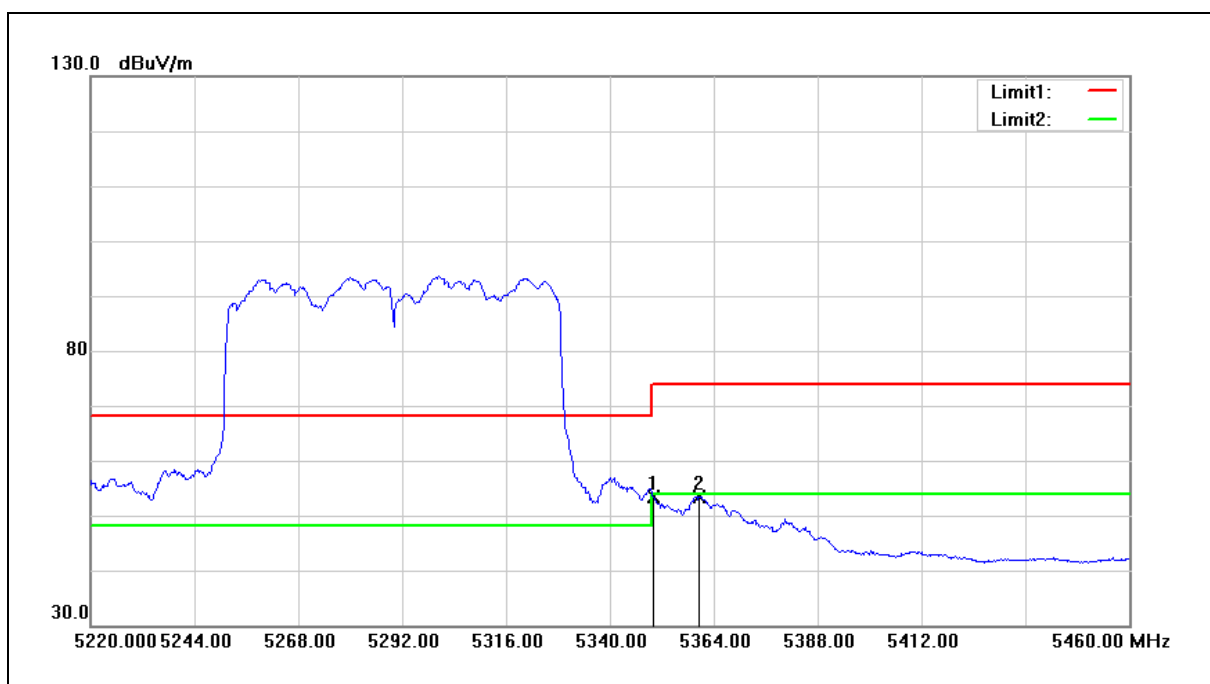
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	39.97	7.30	47.27	54.00	-6.73	AVG
2	5351.520	41.54	7.30	48.84	54.00	-5.16	AVG

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:	5290 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Vertical		



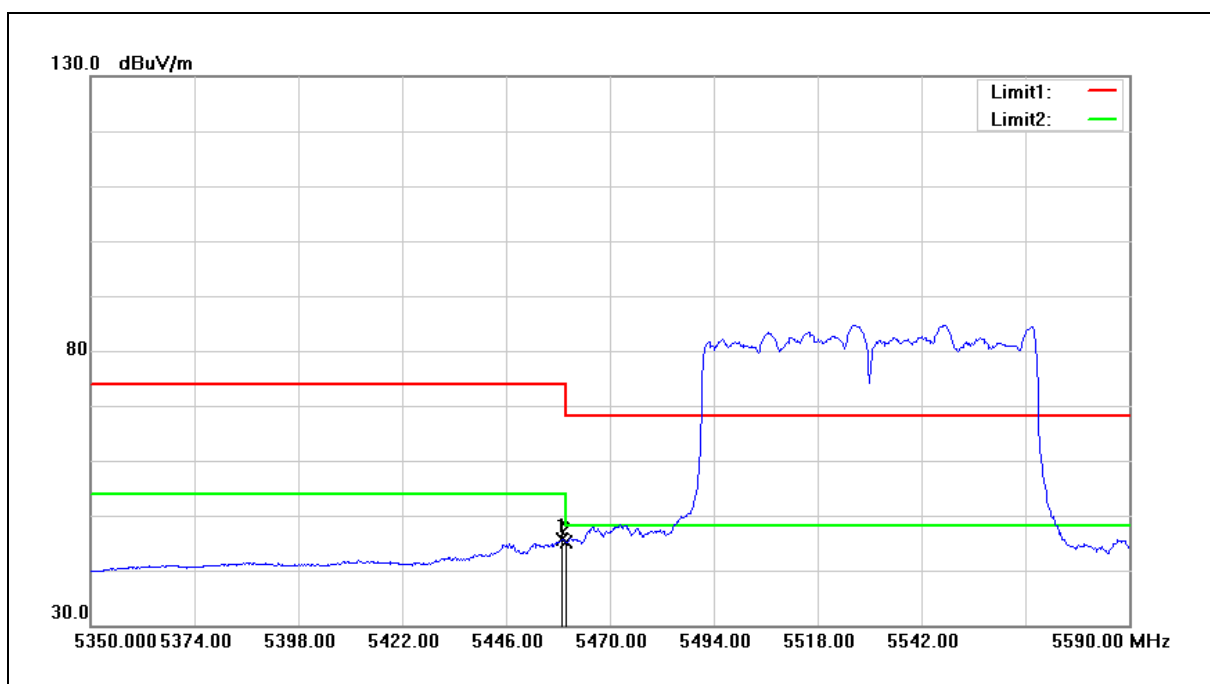
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	46.04	7.30	53.34	54.00	-0.66	AVG
2	5360.640	46.21	7.28	53.49	54.00	-0.51	AVG

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:	5530 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Horizontal		



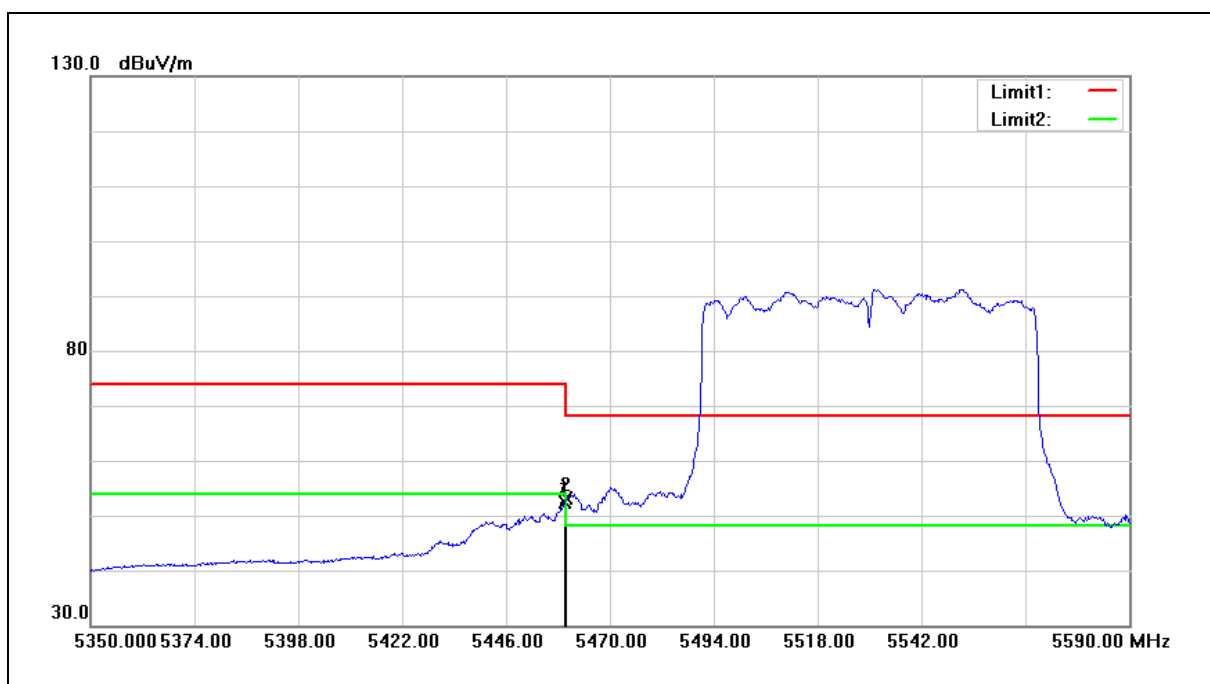
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.960	37.81	7.73	45.54	54.00	-8.46	AVG
2	5460.000	37.49	7.74	45.23	54.00	-8.77	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5530 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5459.680	44.76	7.74	52.50	54.00	-1.50	AVG
2	5460.000	45.31	7.74	53.05	54.00	-0.95	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).

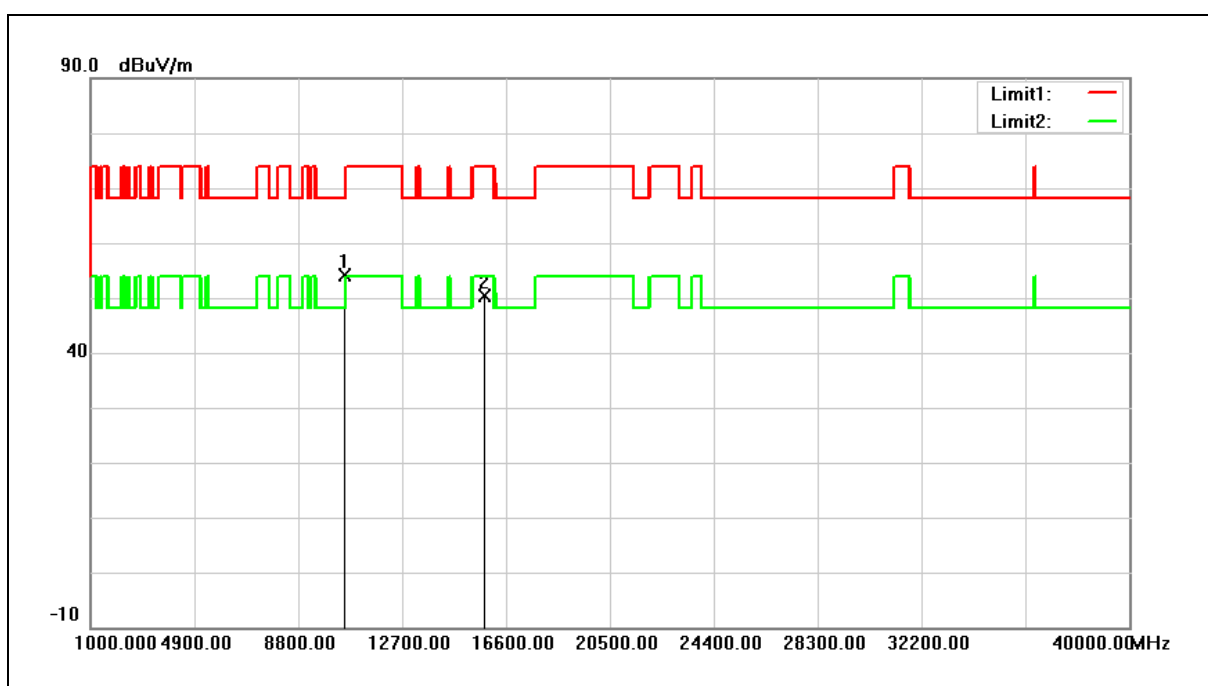
3. When the peak results are less than average limit, so not need to evaluate the average.

Beamforming on

Harmonic

Above 1 GHz

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5260 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



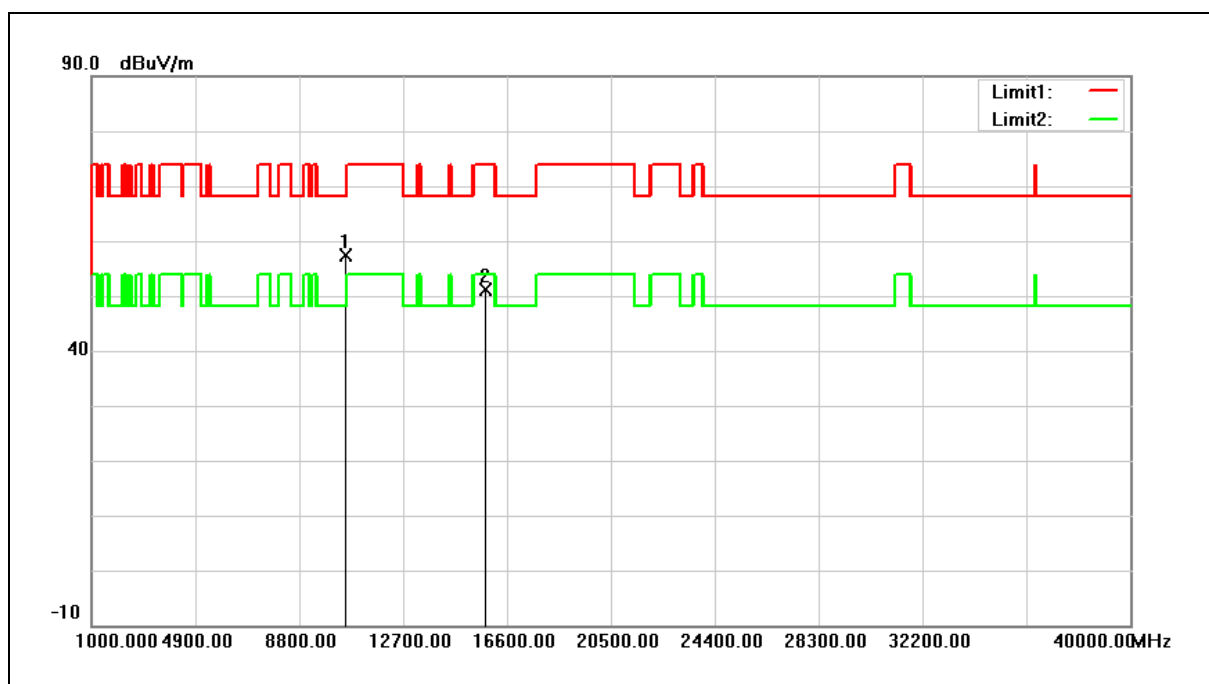
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	35.48	18.71	54.19	68.20	-14.01	peak
2	15780.000	69.23	-18.75	50.48	74.00	-23.52	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5260 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



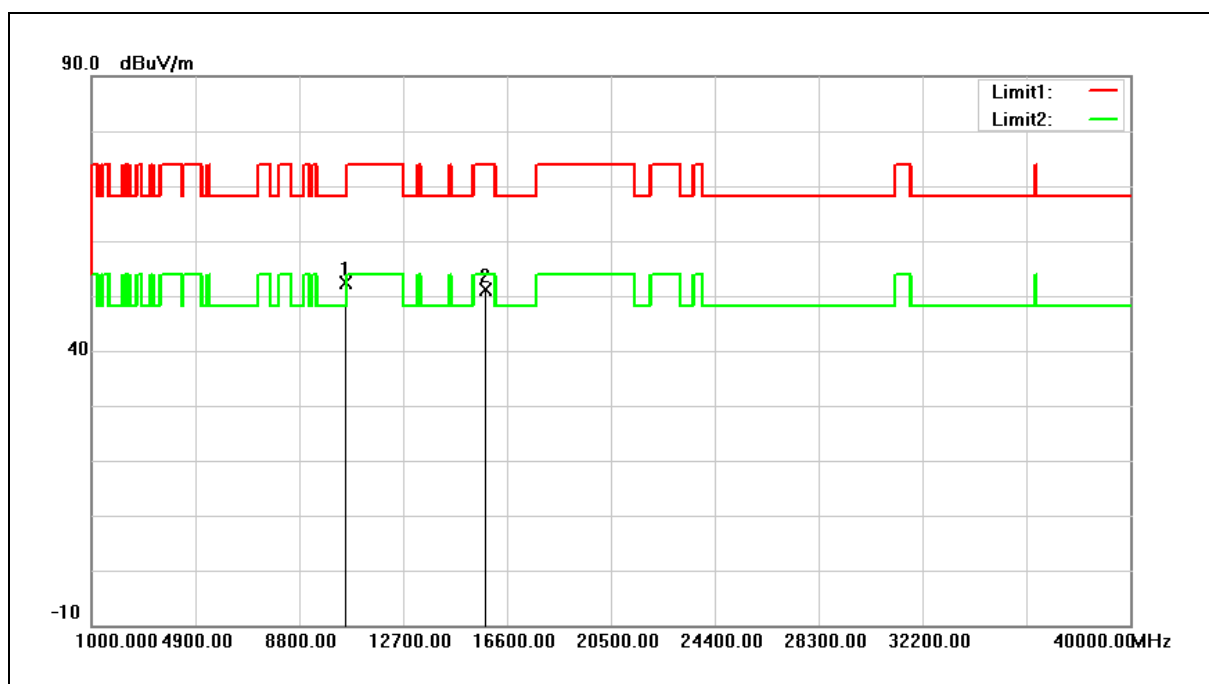
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	38.60	18.71	57.31	68.20	-10.89	peak
2	15780.000	69.98	-18.75	51.23	74.00	-22.77	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5260 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



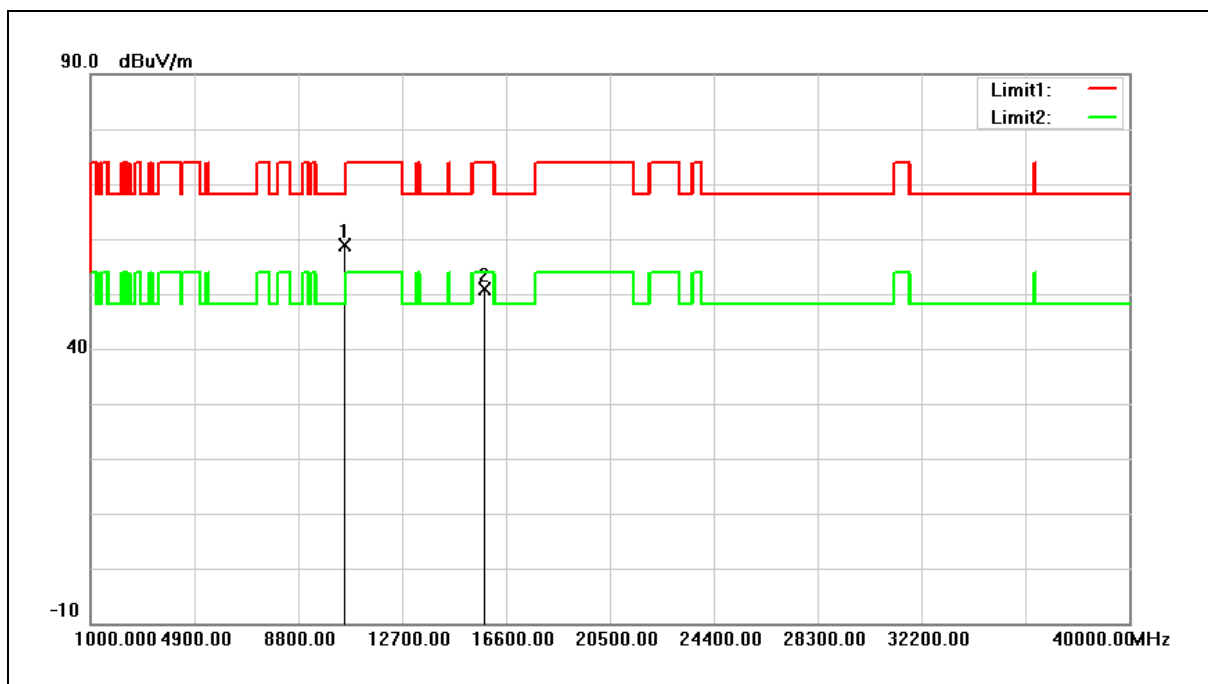
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	33.56	18.71	52.27	68.20	-15.93	peak
2	15780.000	69.82	-18.75	51.07	74.00	-22.93	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5260 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



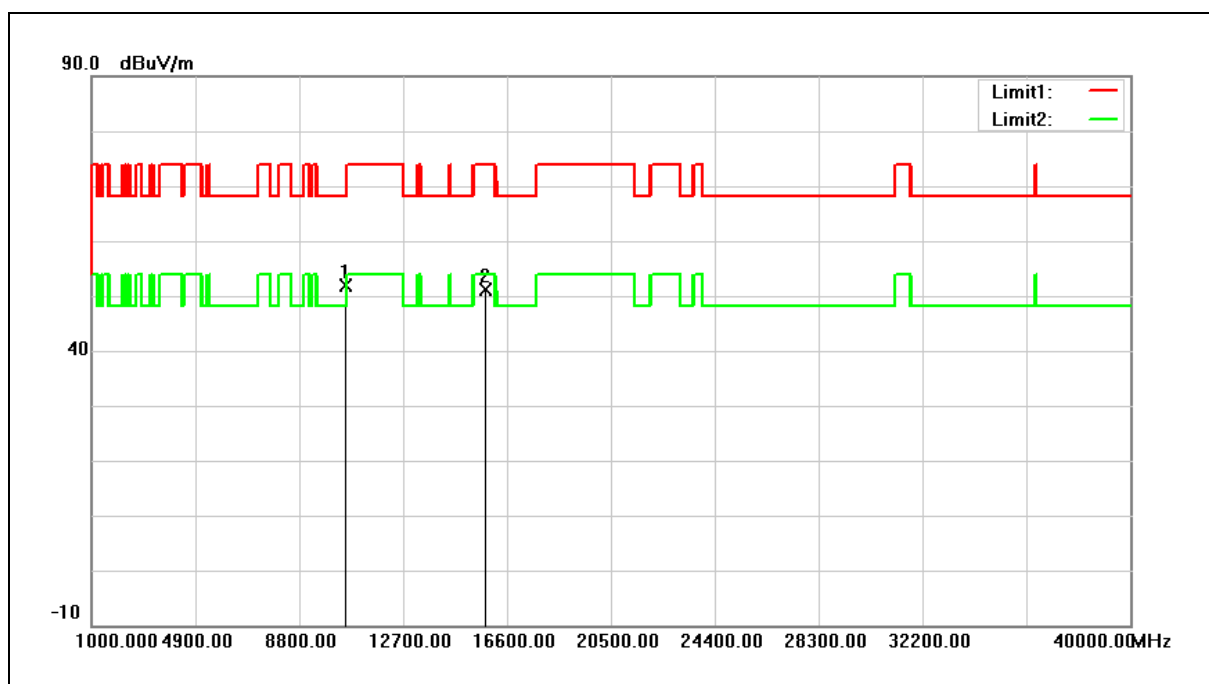
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	40.05	18.71	58.76	68.20	-9.44	peak
2	15780.000	69.56	-18.75	50.81	74.00	-23.19	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5270 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



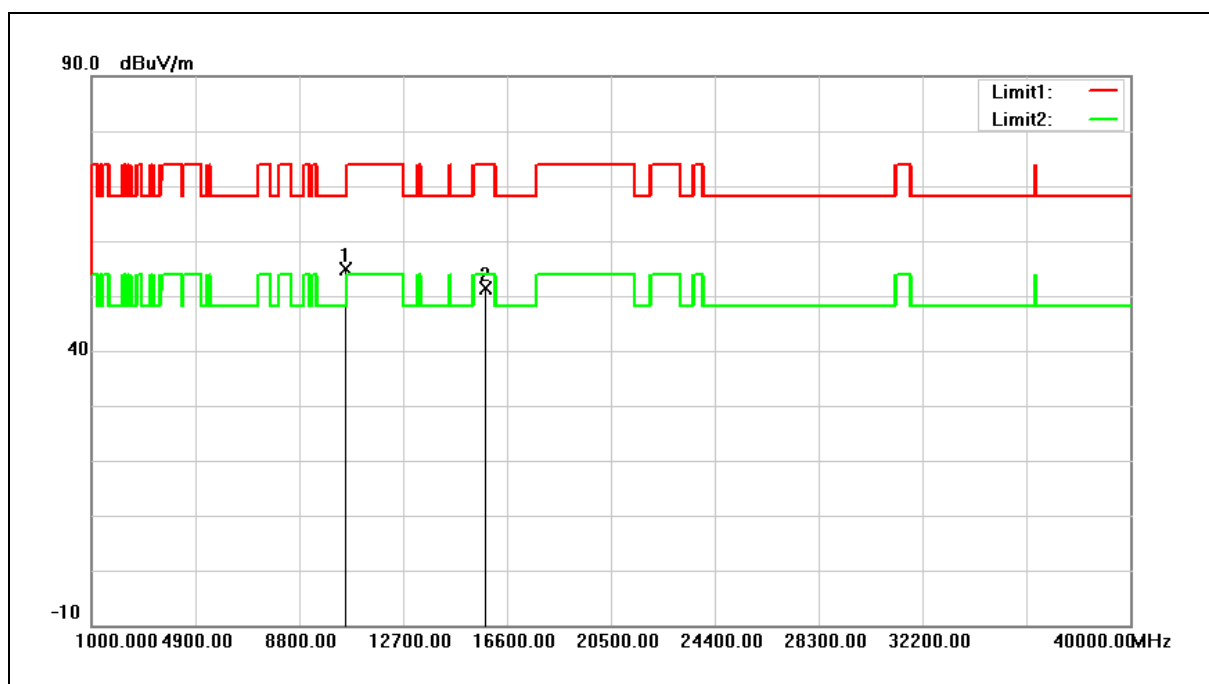
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	33.06	18.71	51.77	68.20	-16.43	peak
2	15810.000	70.05	-18.82	51.23	74.00	-22.77	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5270 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



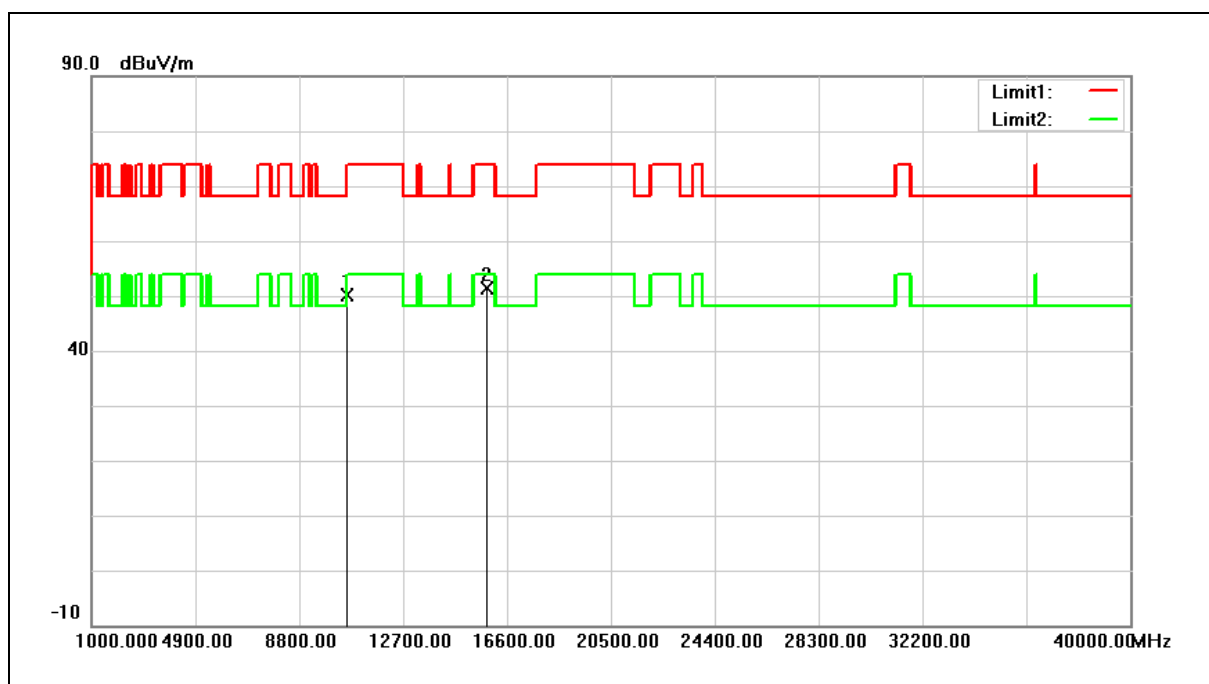
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	36.18	18.71	54.89	68.20	-13.31	peak
2	15810.000	70.16	-18.82	51.34	74.00	-22.66	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5290 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Horizontal		



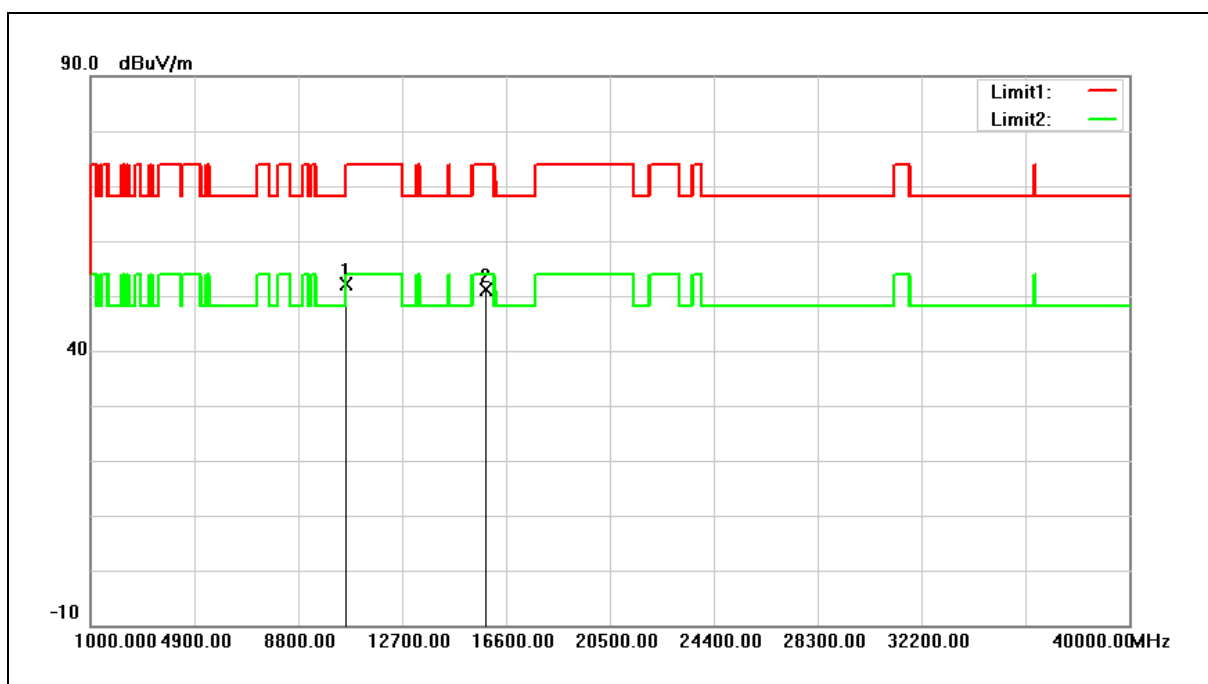
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	31.53	18.71	50.24	68.20	-17.96	peak
2	15870.000	70.25	-18.96	51.29	74.00	-22.71	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	5290 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	33.46	18.71	52.17	68.20	-16.03	peak
2	15870.000	70.04	-18.96	51.08	74.00	-22.92	peak

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

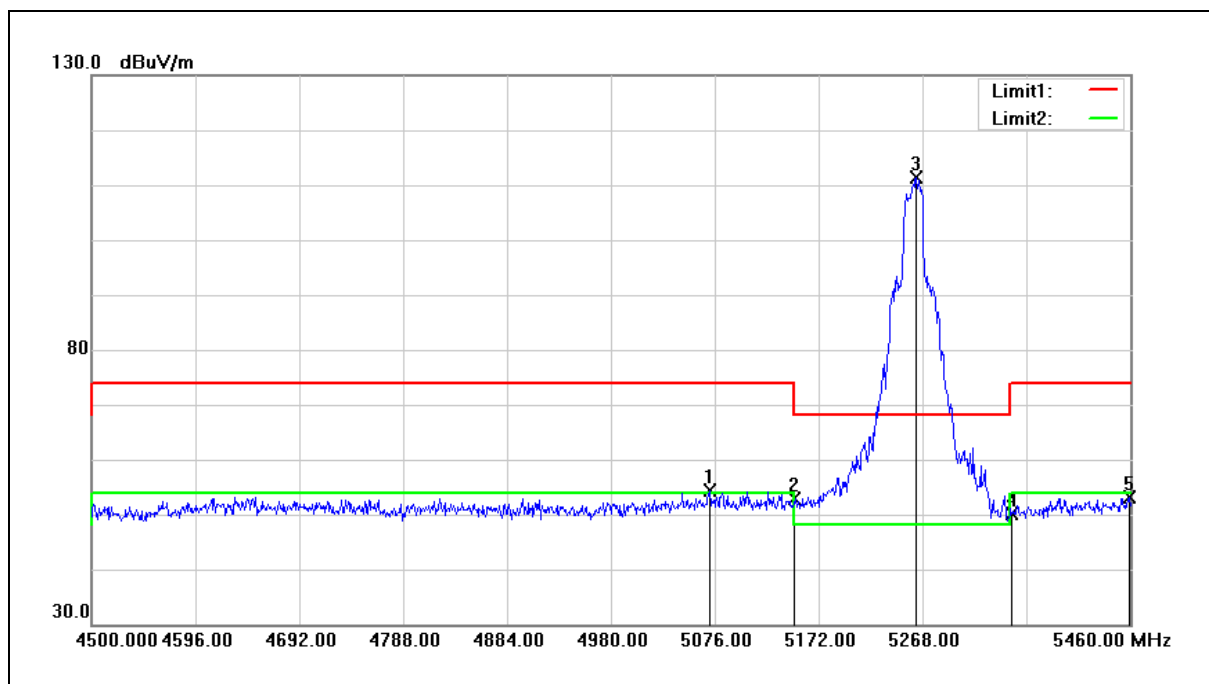
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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

Band Edge

Peak

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5260 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



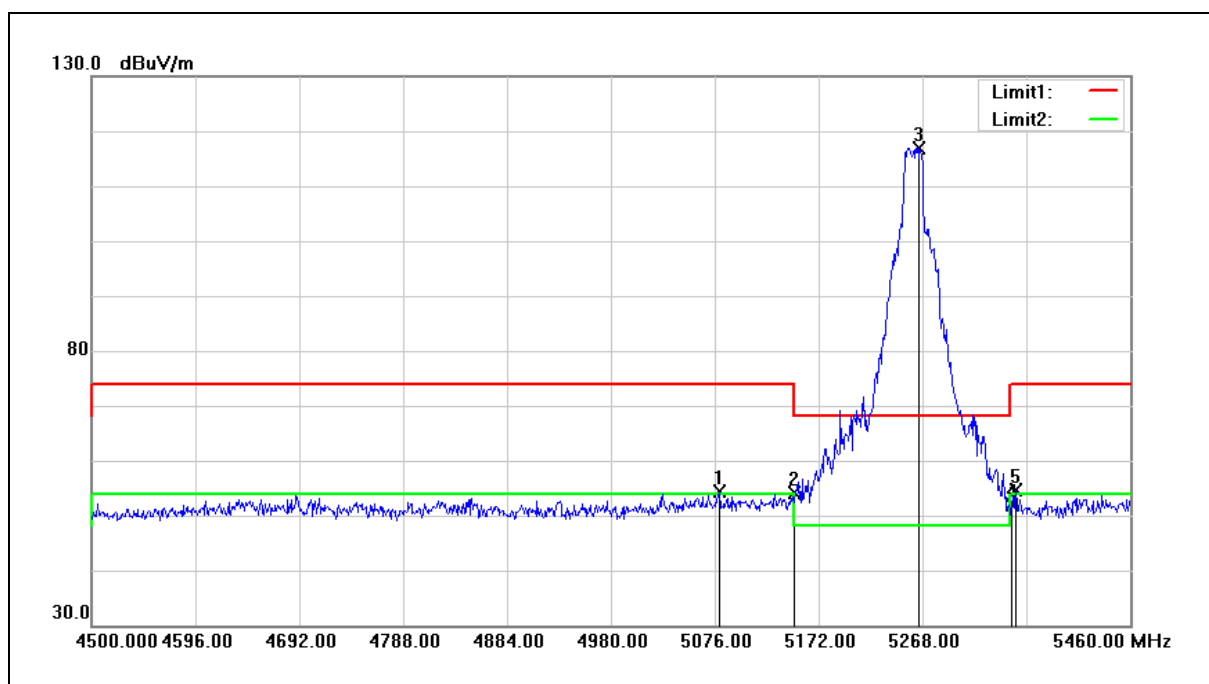
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5071.200	46.75	7.54	54.29	74.00	-19.71	peak
2	5150.000	45.32	7.66	52.98	74.00	-21.02	peak
3	5262.240	104.11	7.33	111.44	68.20	43.24	peak
4	5350.000	42.79	7.30	50.09	74.00	-23.91	peak
5	5459.040	45.47	7.73	53.20	74.00	-20.80	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5260 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



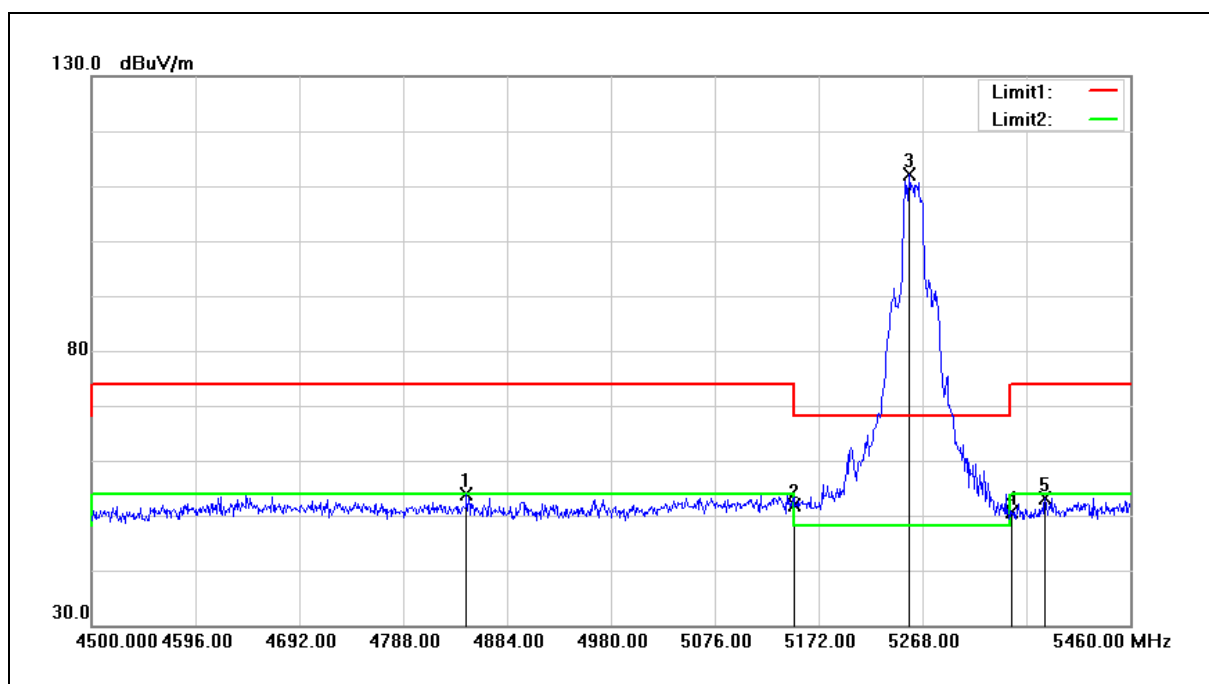
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5080.800	46.68	7.60	54.28	74.00	-19.72	peak
2	5150.000	46.35	7.66	54.01	74.00	-19.99	peak
3	5265.120	109.59	7.34	116.93	68.20	48.73	peak
4	5350.000	44.53	7.30	51.83	74.00	-22.17	peak
5	5354.400	47.28	7.29	54.57	74.00	-19.43	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5260 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



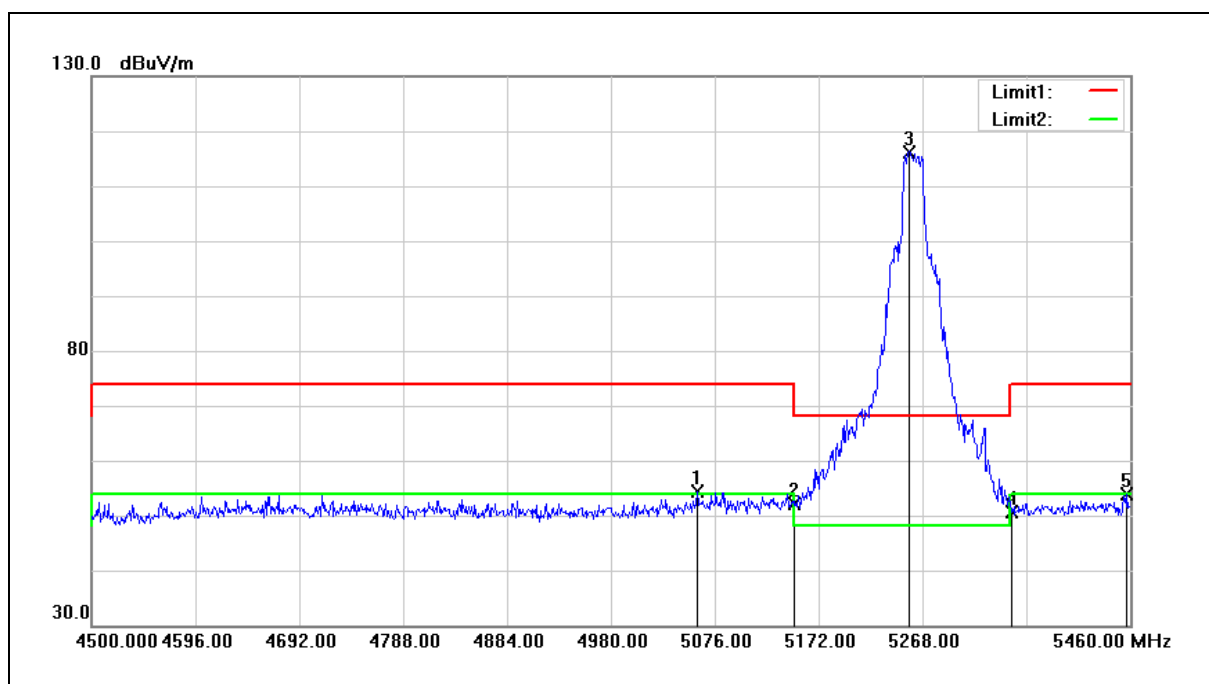
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4846.560	47.15	6.68	53.83	74.00	-20.17	peak
2	5150.000	44.24	7.66	51.90	74.00	-22.10	peak
3	5255.520	104.70	7.33	112.03	68.20	43.83	peak
4	5350.000	43.33	7.30	50.63	74.00	-23.37	peak
5	5381.280	45.96	7.25	53.21	74.00	-20.79	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:	5260 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



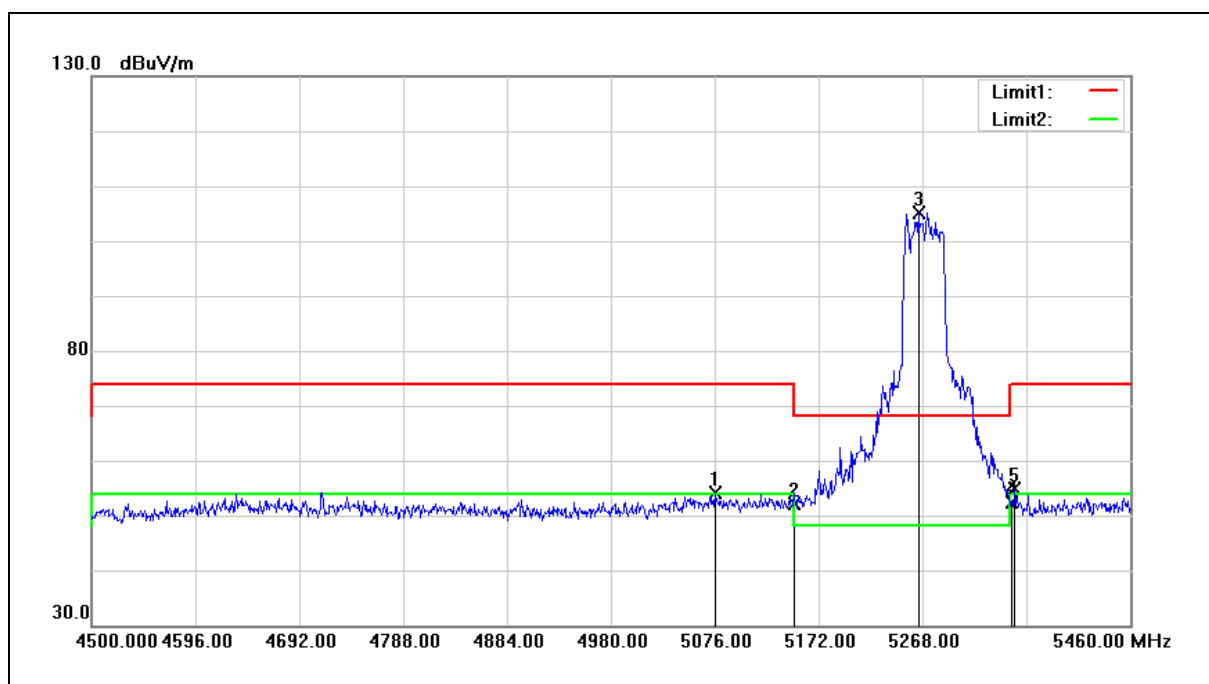
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5059.680	46.95	7.46	54.41	74.00	-19.59	peak
2	5150.000	44.36	7.66	52.02	74.00	-21.98	peak
3	5255.520	108.92	7.33	116.25	68.20	48.05	peak
4	5350.000	43.33	7.30	50.63	74.00	-23.37	peak
5	5457.120	46.11	7.72	53.83	74.00	-20.17	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:	Band edge		
Frequency:	5270 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



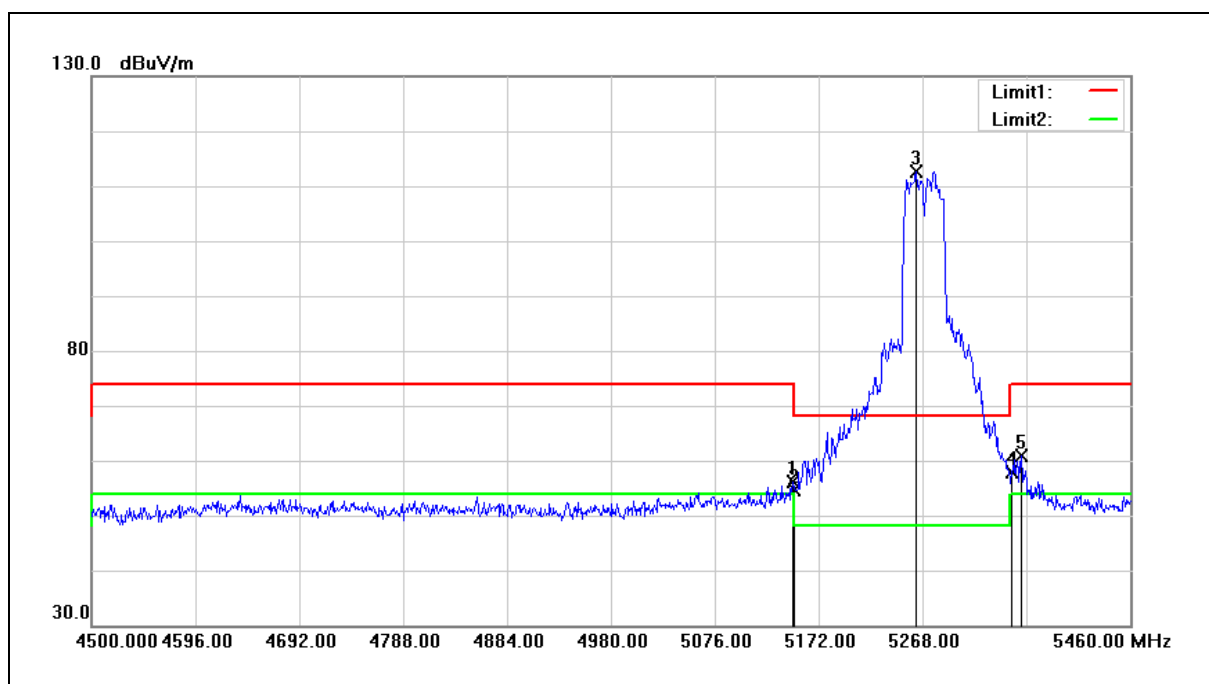
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5076.000	46.52	7.57	54.09	74.00	-19.91	peak
2	5150.000	44.36	7.66	52.02	74.00	-21.98	peak
3	5264.160	97.90	7.33	105.23	68.20	37.03	peak
4	5350.000	45.20	7.30	52.50	74.00	-21.50	peak
5	5353.440	47.48	7.29	54.77	74.00	-19.23	peak

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5270 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



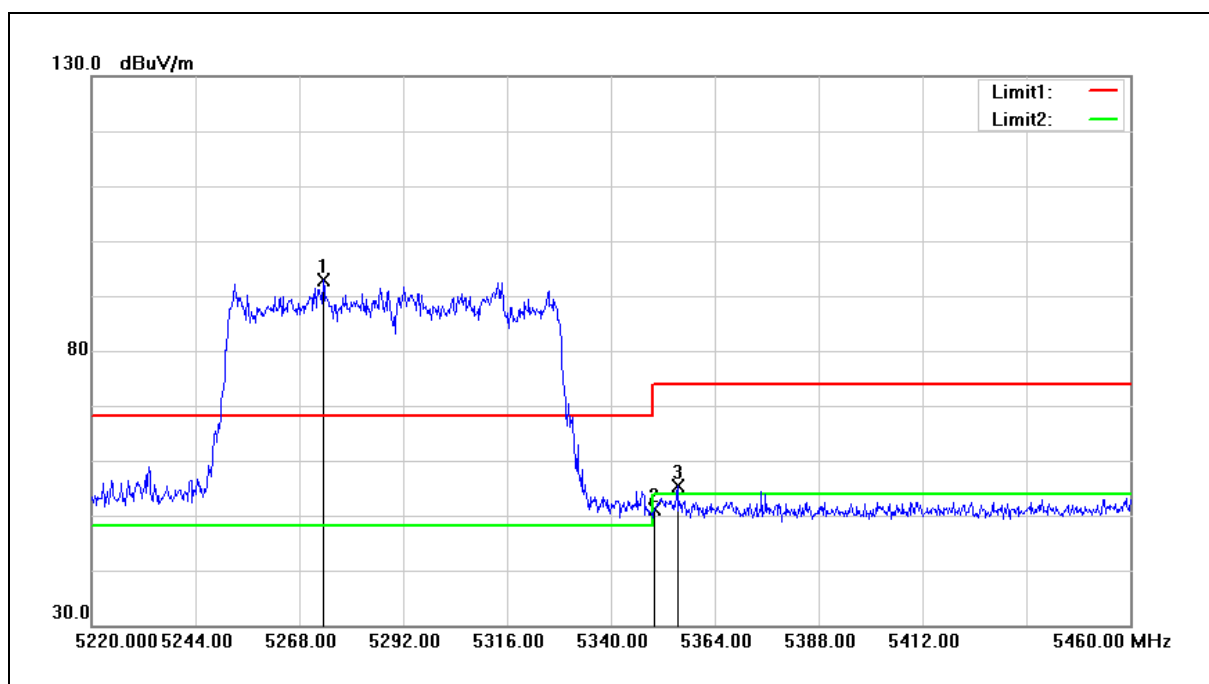
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5148.000	48.47	7.65	56.12	74.00	-17.88	peak
2	5150.000	46.99	7.66	54.65	74.00	-19.35	peak
3	5262.240	105.41	7.33	112.74	68.20	44.54	peak
4	5350.000	50.58	7.30	57.88	74.00	-16.12	peak
5	5359.200	53.55	7.28	60.83	74.00	-13.17	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:	Band edge		
Frequency:	5290 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Horizontal		



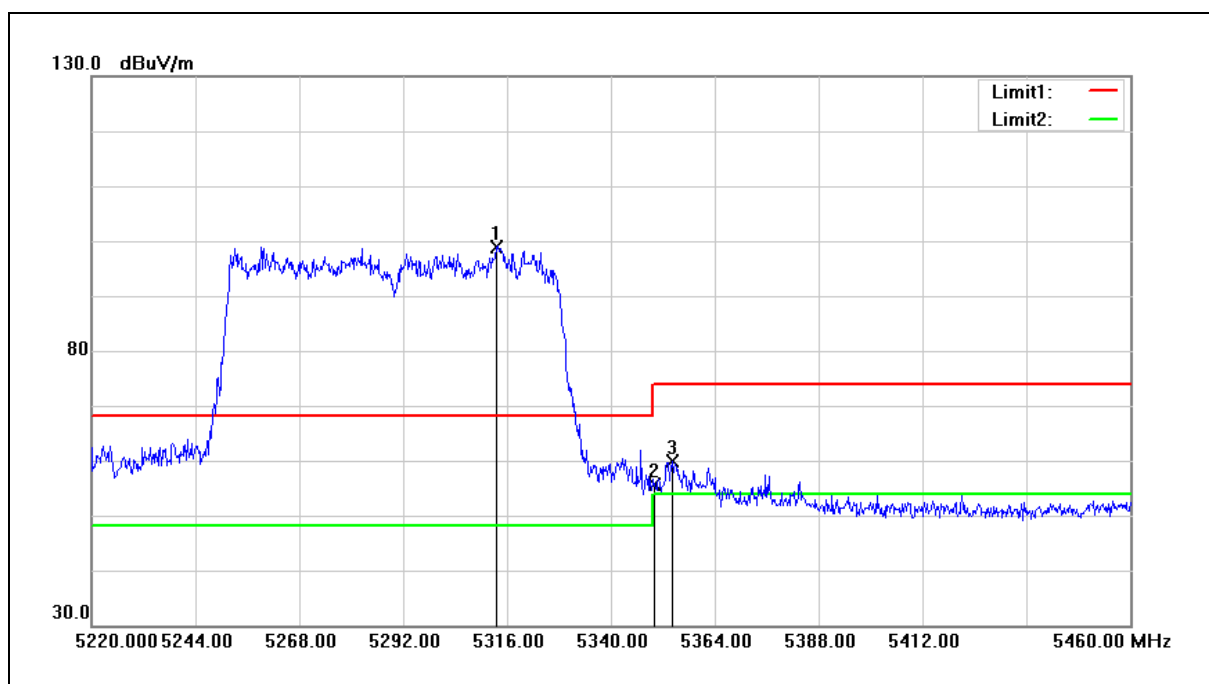
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5273.520	85.47	7.34	92.81	68.20	24.61	peak
2	5350.000	43.90	7.30	51.20	74.00	-22.80	peak
3	5355.360	48.19	7.29	55.48	74.00	-18.52	peak

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:	5290 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5313.600	91.52	7.34	98.86	68.20	30.66	peak
2	5350.000	48.29	7.30	55.59	74.00	-18.41	peak
3	5354.160	52.65	7.29	59.94	74.00	-14.06	peak

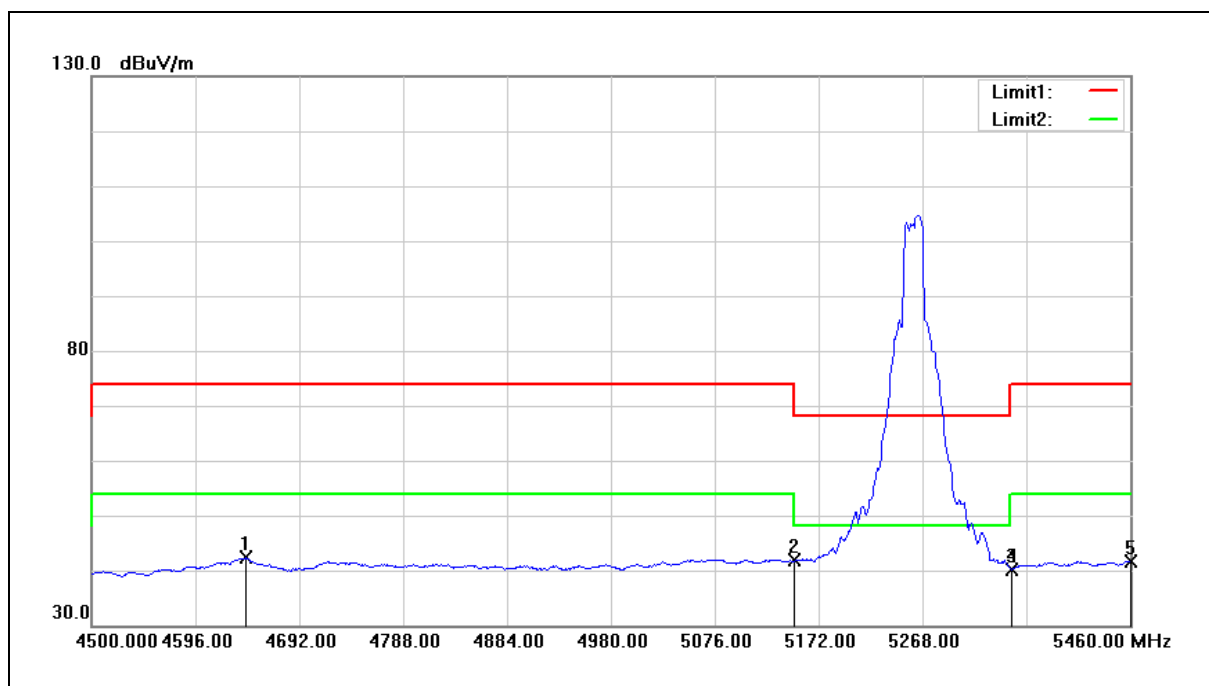
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

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.

Average

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5260 MHz		
Mode:	802.11a		
Ant.Polar.:	Horizontal		



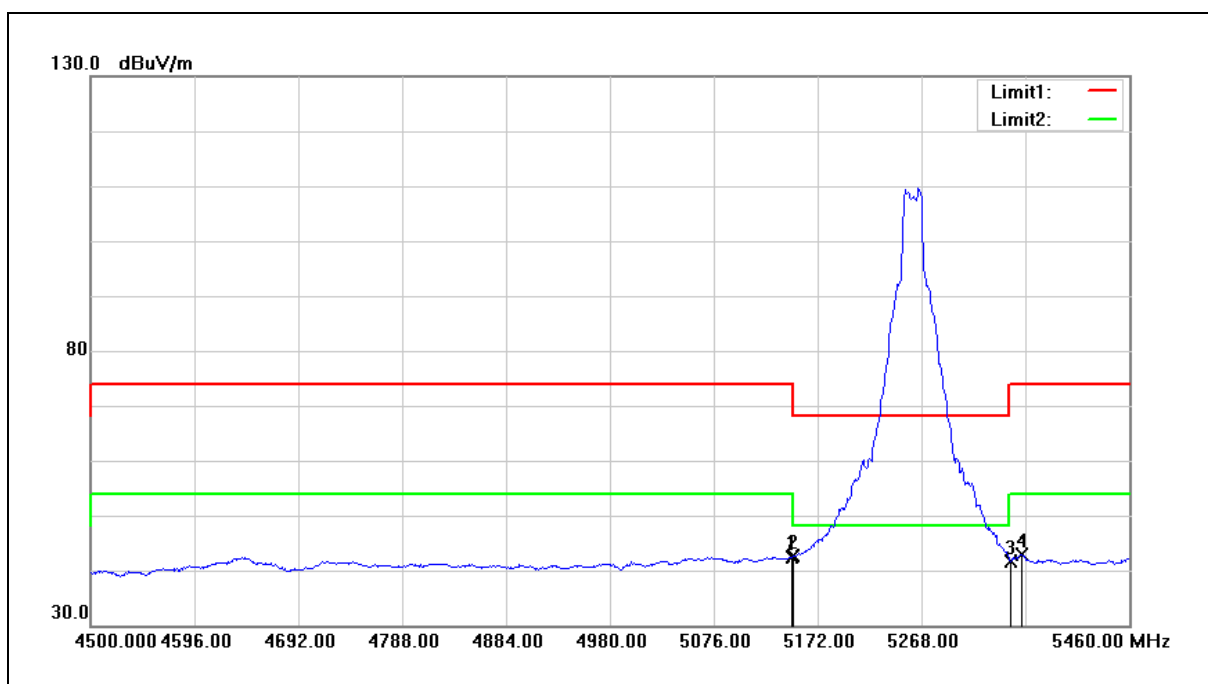
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4642.080	36.12	6.18	42.30	54.00	-11.70	AVG
2	5150.000	34.22	7.66	41.88	54.00	-12.12	AVG
3	5350.000	32.91	7.30	40.21	54.00	-13.79	AVG
4	5350.000	32.91	7.30	40.21	54.00	-13.79	AVG
5	5460.000	33.96	7.74	41.70	54.00	-12.30	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5260 MHz		
Mode:	802.11a		
Ant.Polar.:	Vertical		



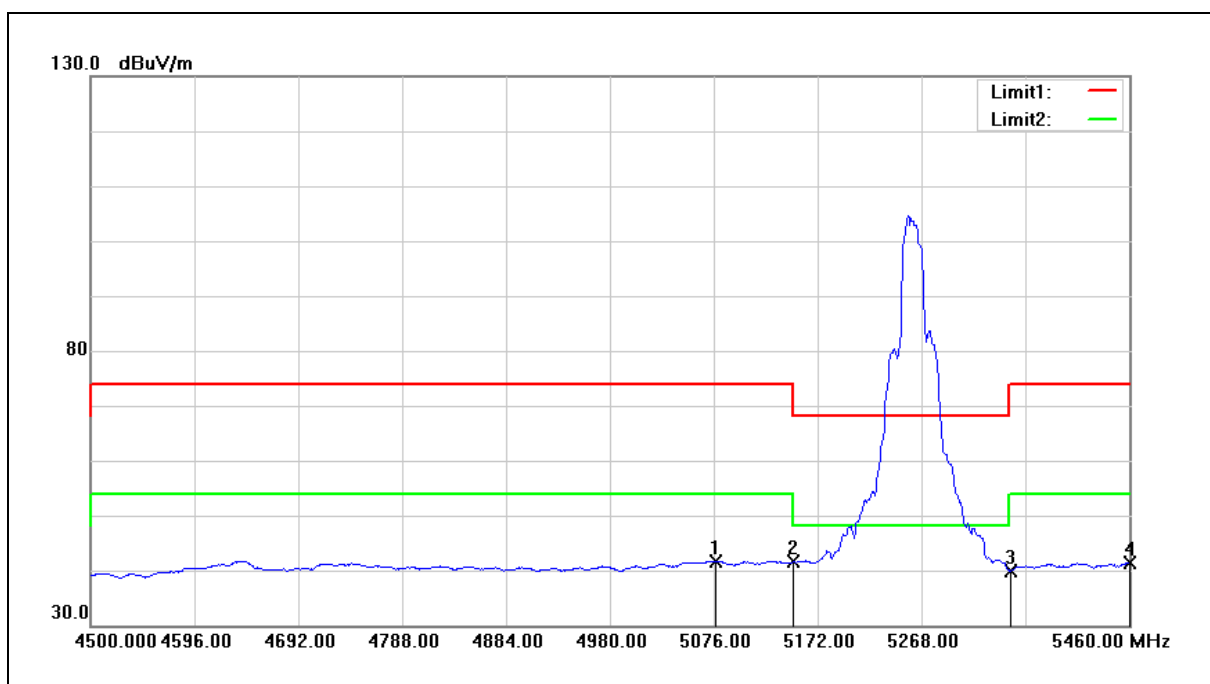
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5148.000	34.81	7.65	42.46	54.00	-11.54	AVG
2	5150.000	34.94	7.66	42.60	54.00	-11.40	AVG
3	5350.000	34.43	7.30	41.73	54.00	-12.27	AVG
4	5360.160	35.53	7.28	42.81	54.00	-11.19	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5260 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Horizontal		



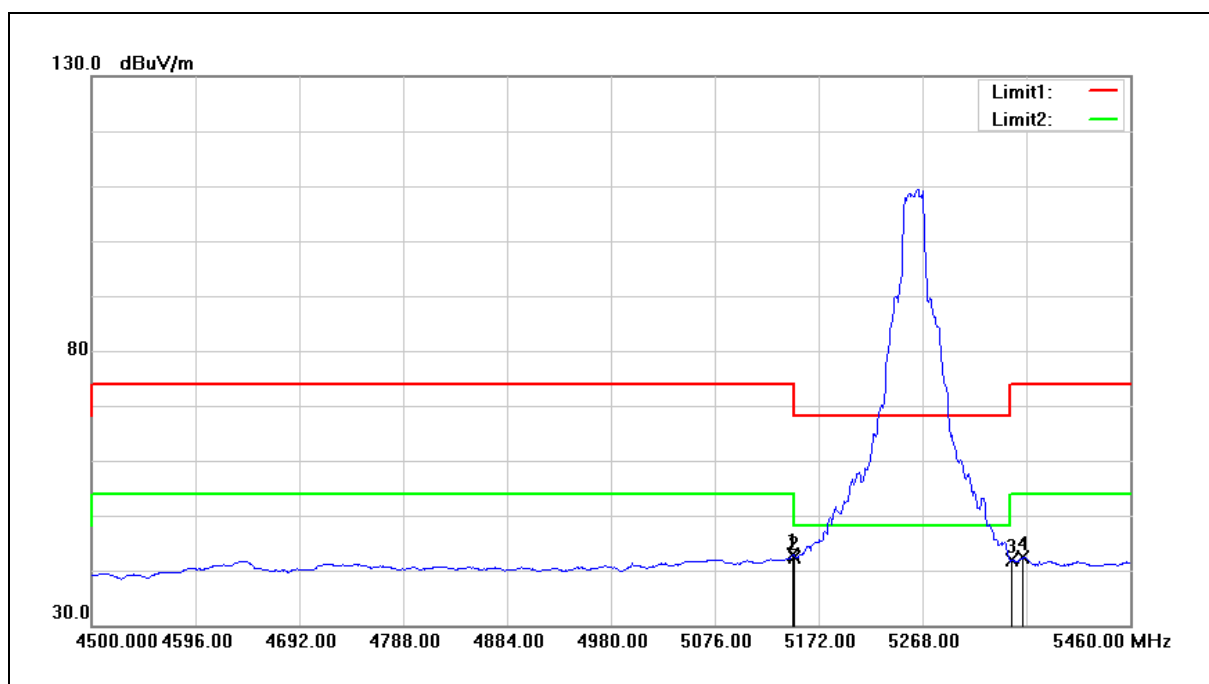
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5077.920	34.17	7.58	41.75	54.00	-12.25	AVG
2	5150.000	33.86	7.66	41.52	54.00	-12.48	AVG
3	5350.000	32.63	7.30	39.93	54.00	-14.07	AVG
4	5460.000	33.72	7.74	41.46	54.00	-12.54	AVG

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:	5260 MHz		
Mode:	802.11ac VHT20		
Ant.Polar.:	Vertical		



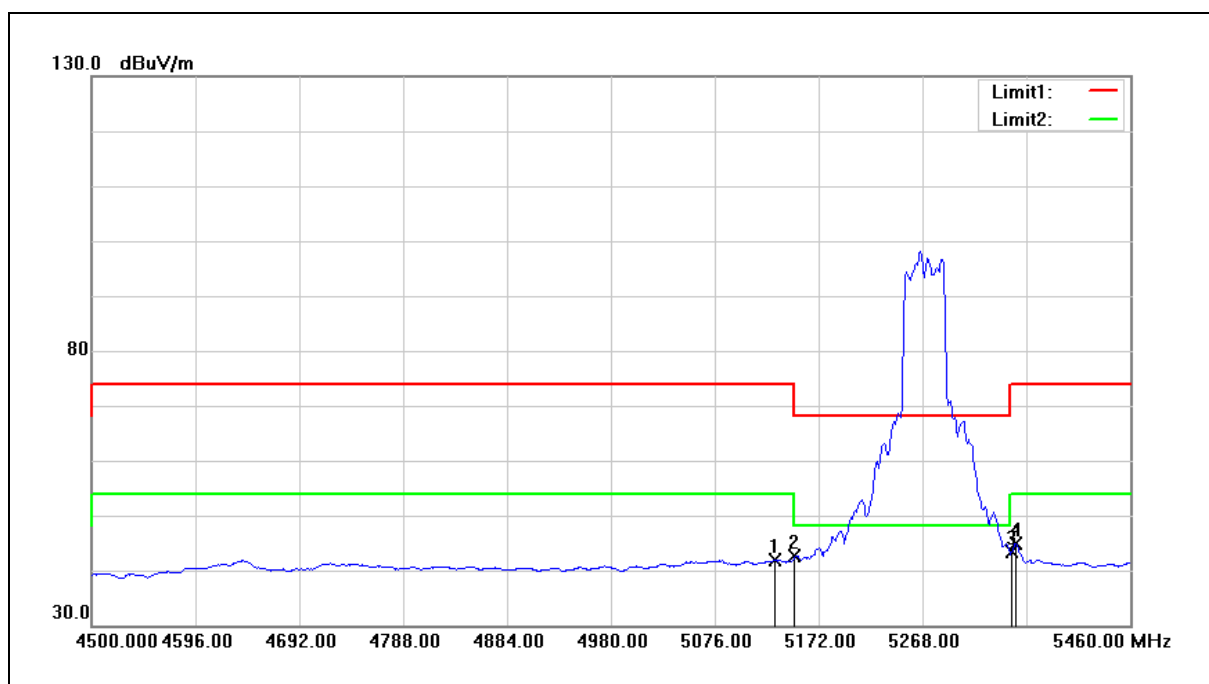
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5148.000	35.18	7.65	42.83	54.00	-11.17	AVG
2	5150.000	34.82	7.66	42.48	54.00	-11.52	AVG
3	5350.000	34.53	7.30	41.83	54.00	-12.17	AVG
4	5361.120	35.07	7.28	42.35	54.00	-11.65	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5270 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Horizontal		



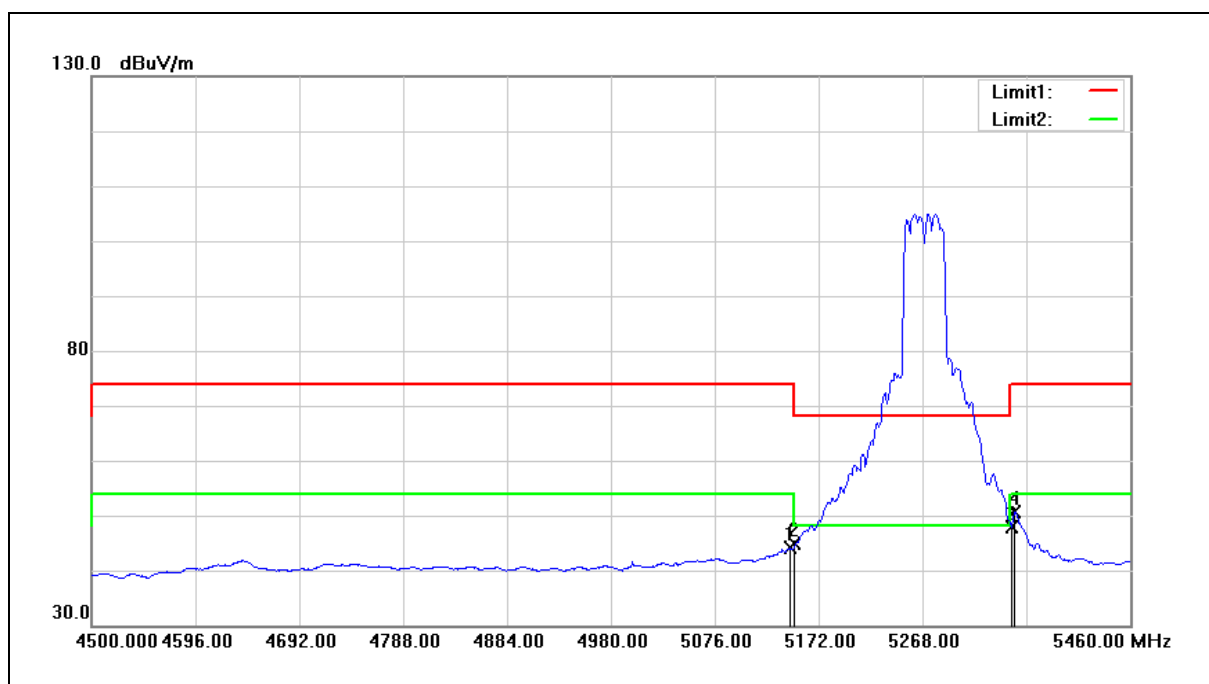
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5131.680	34.23	7.68	41.91	54.00	-12.09	AVG
2	5150.000	34.94	7.66	42.60	54.00	-11.40	AVG
3	5350.000	36.12	7.30	43.42	54.00	-10.58	AVG
4	5354.400	37.66	7.29	44.95	54.00	-9.05	AVG

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

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

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

Standard:	FCC Part 15.407	Test Distance:	3 m
Test item:	Band edge		
Frequency:	5270 MHz		
Mode:	802.11ac VHT40		
Ant.Polar.:	Vertical		



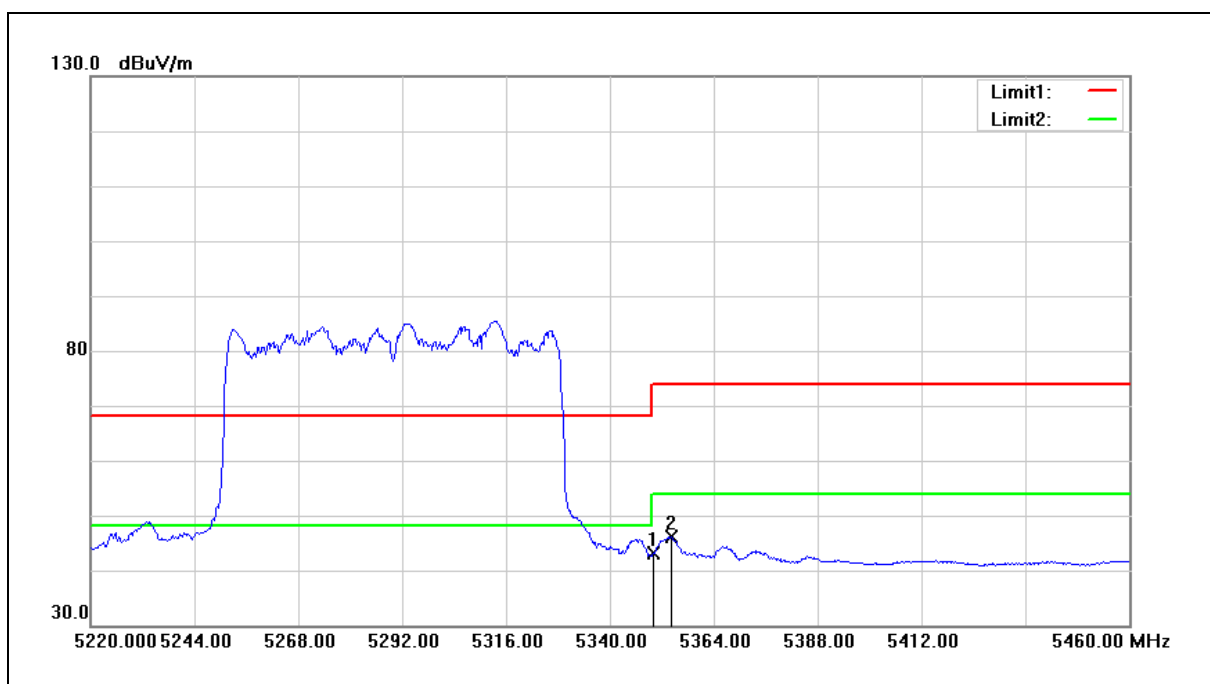
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.120	36.46	7.66	44.12	54.00	-9.88	AVG
2	5150.000	37.22	7.66	44.88	54.00	-9.12	AVG
3	5350.000	40.53	7.30	47.83	54.00	-6.17	AVG
4	5353.440	43.33	7.29	50.62	54.00	-3.38	AVG

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:	5290 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Horizontal		



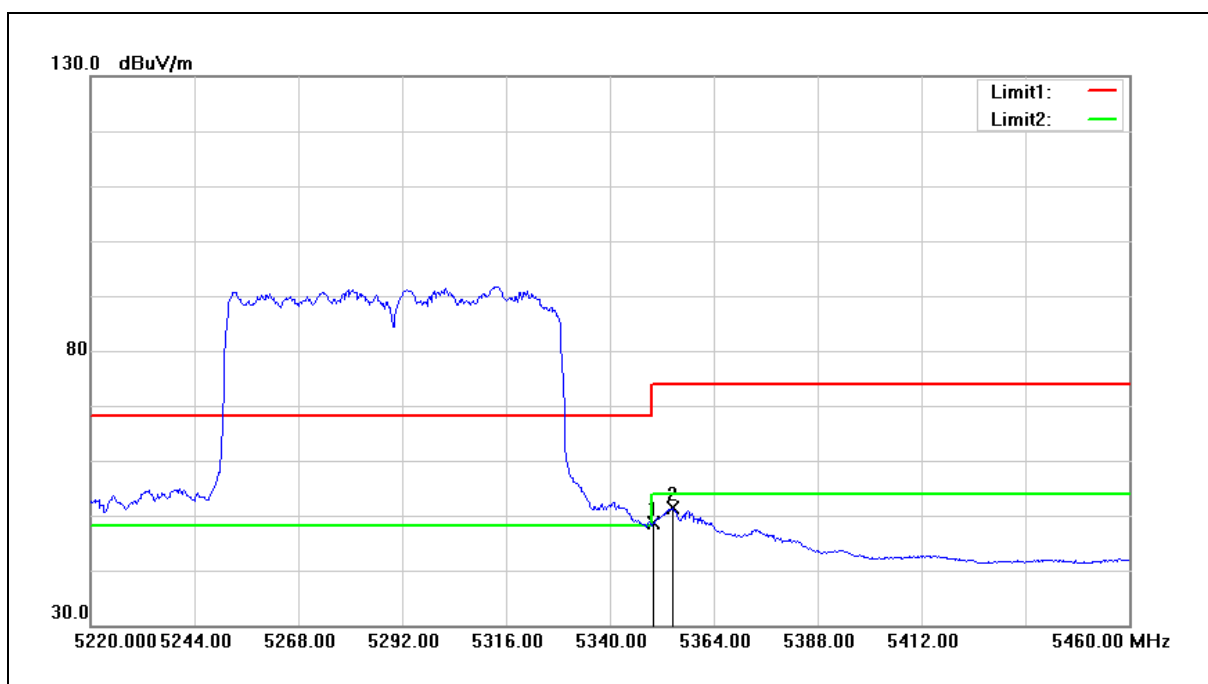
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	35.76	7.30	43.06	54.00	-10.94	AVG
2	5354.160	38.75	7.29	46.04	54.00	-7.96	AVG

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:	5290 MHz		
Mode:	802.11ac VHT80		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	41.33	7.30	48.63	54.00	-5.37	AVG
2	5354.400	43.98	7.29	51.27	54.00	-2.73	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.

5.3. Conducted Test Results

Duty cycle

Reference Appendix A / Appendix B

Maximum Conducted Output Power Measurement

Reference Appendix A

26 dB RF Bandwidth Measurement

Reference Appendix A / Appendix B

Maximum Power Spectral Density and E.I.R.P. Spectral Density Measurement

Reference Appendix A / Appendix B

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