

TEST REPORT

Applicant: Queclink Wireless Solutions Co., Ltd
Address: No.30, Lane 500, Xinlong Road, Minhang District, Shanghai, 201101
Equipment Type: Multiple Channels AI-Powered Connected Dash Camera
Model Name: CV5000LNA
Brand Name: Queclink
FCC ID: YQD-CV5000LNA
Test Standard: 47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date: Jan. 06, 2026
Test Date: Jan. 06, 2026 - Jan. 28, 2026
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ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Feb. 04, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Queclink Wireless Solutions Co., Ltd.
Address	No.30, Lane 500, Xinlong Road, Minhang District, Shanghai, 201101

2.2 Manufacturer Information

Manufacturer	Queclink Wireless Solutions Co., Ltd.
Address	No.30, Lane 500, Xinlong Road, Minhang District, Shanghai, 201101

2.3 General Description for Equipment under Test (EUT)

EUT Name	Multiple Channels AI-Powered Connected Dash Camera
Model Name Under Test	CV5000LNA
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	SC-EC2591101-S11 (conducted) SC-EC2591101-S13 (radiated)
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	3G WCDMA HSDPA/HSUPA Band 2/4/5 4G LTE FDD Band 2/4/5/12/13/14/66/71 Bluetooth (BLE:1M) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40) GPS, Glonass, BDS, Galileo
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-2A: 5250 MHz to 5350 MHz, U-NII-2C: 5470 MHz to 5725 MHz, U-NII-3: 5725 MHz to 5850 MHz
Modulation technology	OFDM
Modulation Type	64QAM, 16QAM, BPSK, QPSK
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz
Maximum Output Power	U-NII-1: 17.36dBm U-NII-2A: 16.97dBm U-NII-2C: 19.20dBm U-NII-3: 18.40dBm
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: 1.82 dBi U-NII-2A: 5250 MHz to 5350 MHz: 2.83 dBi U-NII-2C: 5470 MHz to 5725 MHz: 3.18 dBi U-NII-3: 5725 MHz to 5850 MHz: 2.27 dBi
About the Product	The equipment is CV5000LNA, intended for used with information technology equipment.

2.5 Channel List

20 MHz		40 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	151	5755
108	5540	159	5795
112	5560		
116	5580		
120	5600		
124	5620		
128	5640		
132	5660		
136	5680		
140	5700		
149	5745		
153	5765		
157	5785		
161	5805		
165	5825		

The Lowest frequency, the middle frequency and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	52	Low	5260
44	Mid	5220	60	Mid	5300
48	High	5240	64	High	5320

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
100	Low	5500	149	Low	5745
116	Mid	5580	157	Mid	5785
140	High	5700	165	High	5825

For 802.11n(HT40)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	54	Low	5270
46	High	5230	62	High	5310

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
102	Low	5510	151	Low	5755
118	Mid	5590	159	High	5795
134	High	5670			

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
				Channel	Channel	Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
6 dB bandwidth	11a	6	BPSK	N/A	N/A	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11n(40 MHz)	13.5		N/A	N/A	N/A	159/151
Power Spectral Density	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
Band Edge (Restricted-band)	11a	6	BPSK	48/36	64/52	140/100	165/149
	11n(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	RSS Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	N/A	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	N/A	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	N/A	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	N/A	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	N/A	ANNEX A.4	Pass
6	Conducted Emission	15.207	N/A	ANNEX A.5	N/A ^{Note2}
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	N/A	ANNEX A.6	Pass

Note ¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note ²: The EUT is only powered by DC supply.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	50% to 57%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.6°C to +24.5°C
Working Voltage of the EUT	NV (Normal Voltage)	12 V

4.2 Test Equipment List

Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	BH-EMC-L066	2025.02.12	2026.02.11
Spectrum Analyzer	KEYSIGHT	N9010B	BH-EMC-L099	2025.02.12	2026.02.11
Signal Generator	Anritsu	MG3710E	BH-EMC-L131	2025.02.12	2026.02.11
Wideband Radio Communication Tester	R&S	CMW500	BH-EMC-L094	2025.02.11	2026.02.10
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L015	2025.07.04	2026.07.03
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519 B	BH-EMC-L067	2024.03.11	2027.03.10
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	BH-EMC-L008	2024.03.11	2027.03.10
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	BH-EMC-L044	2024.03.11	2027.03.10
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400-KF	BH-EMC-L061	2024.03.11	2027.03.10
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11
LISN	SCHWARZBECK	NSLK 8127	BH-EMC-L011	2025.02.11	2026.02.10
10dB Limiter	SCHWARZBECK	VTSD 9561-F	BH-EMC-L014	2025.02.11	2026.02.10
Shielded Room	YiHeng	5m*4m*3.2m	BH-EMC-L006	2024.02.22	2027.02.21

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable Test Setup
BL410R	BALUN	V2.1.1.496	N/A	The section 4.6.1
BL410E	BALUN	V21.919	N/A	The section 4.6.2&4.6.3&4.6.4&4.6.5

4.4 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.40 %
RF output power, conducted	0.41 dB
Power Spectral Density, conducted	1.74 dB
Unwanted Emissions, conducted	1.74 dB
All emissions, radiated	3.70 dB
Temperature	0.82 °C
Humidity	4.08 %

4.5 Decision Rule

- ☐ No Need
☒ Use General conformity decision rule (Consider uncertainty or not ☒No ☐Yes)
☐ Use Special Conformity Decision Rule (Consider uncertainty or not ☐No ☐Yes)

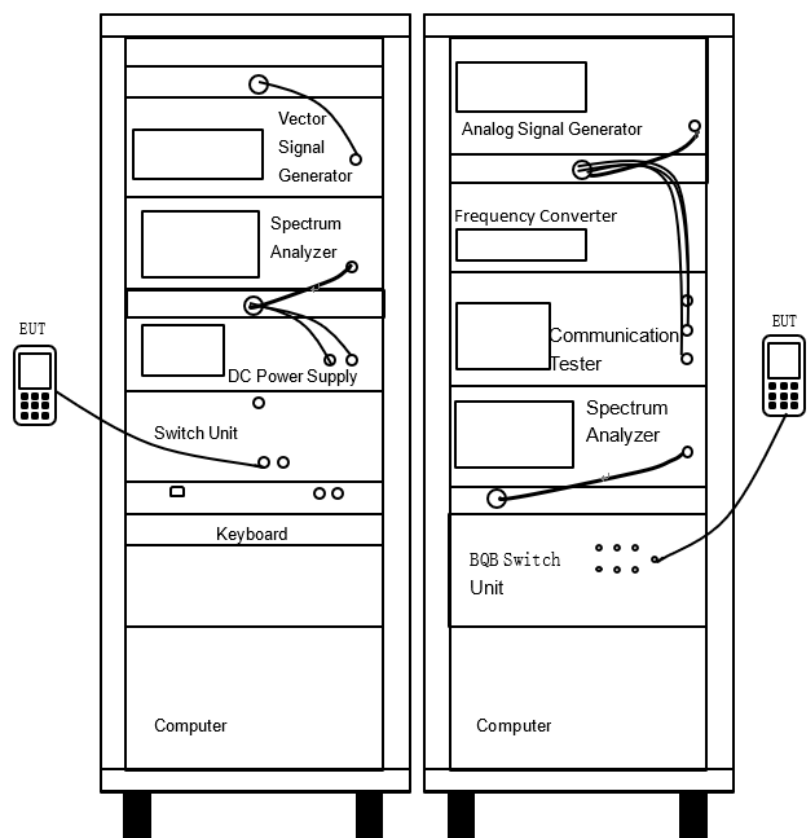
4.6 Description of Test Setup

4.6.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

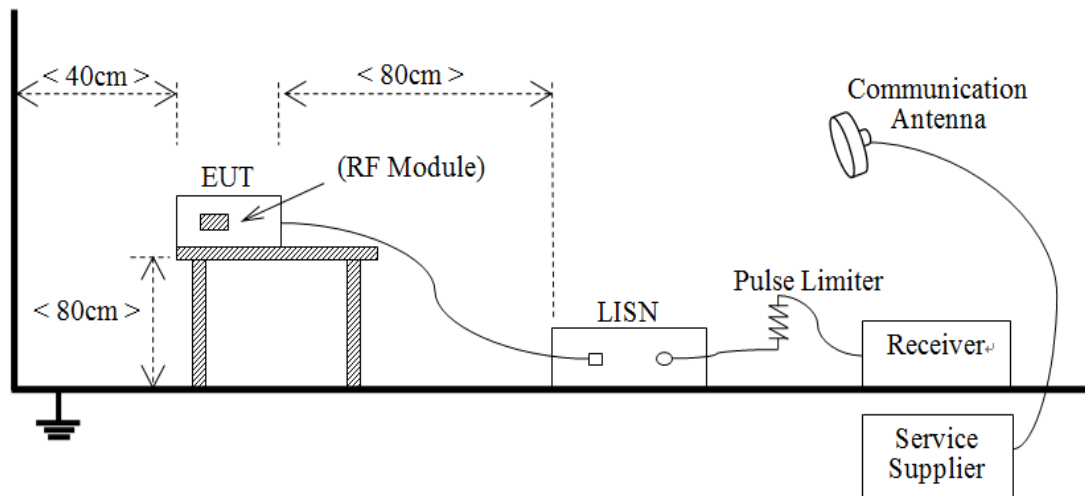
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



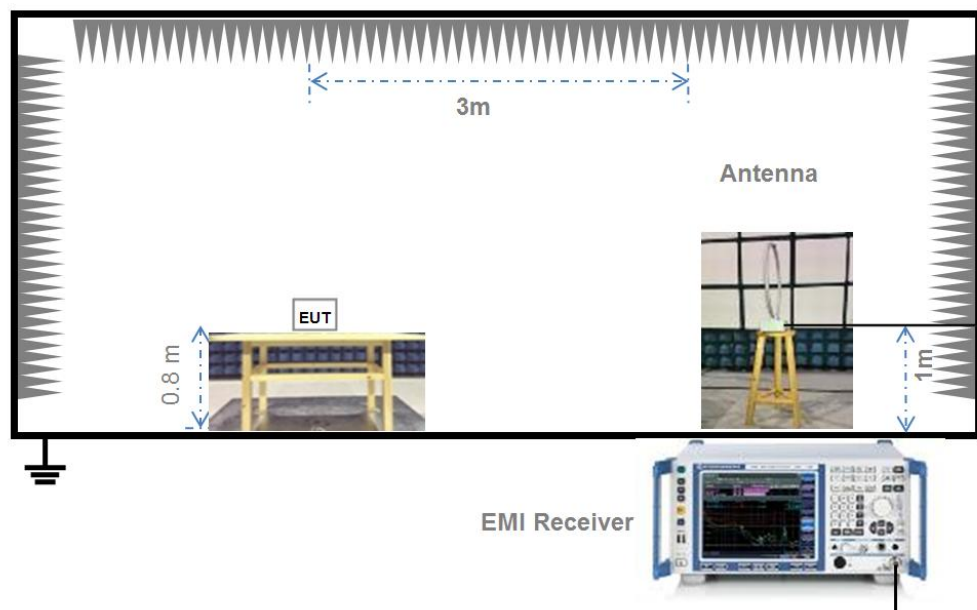
(Diagram 1)

4.6.2 For AC Power Supply Port Test



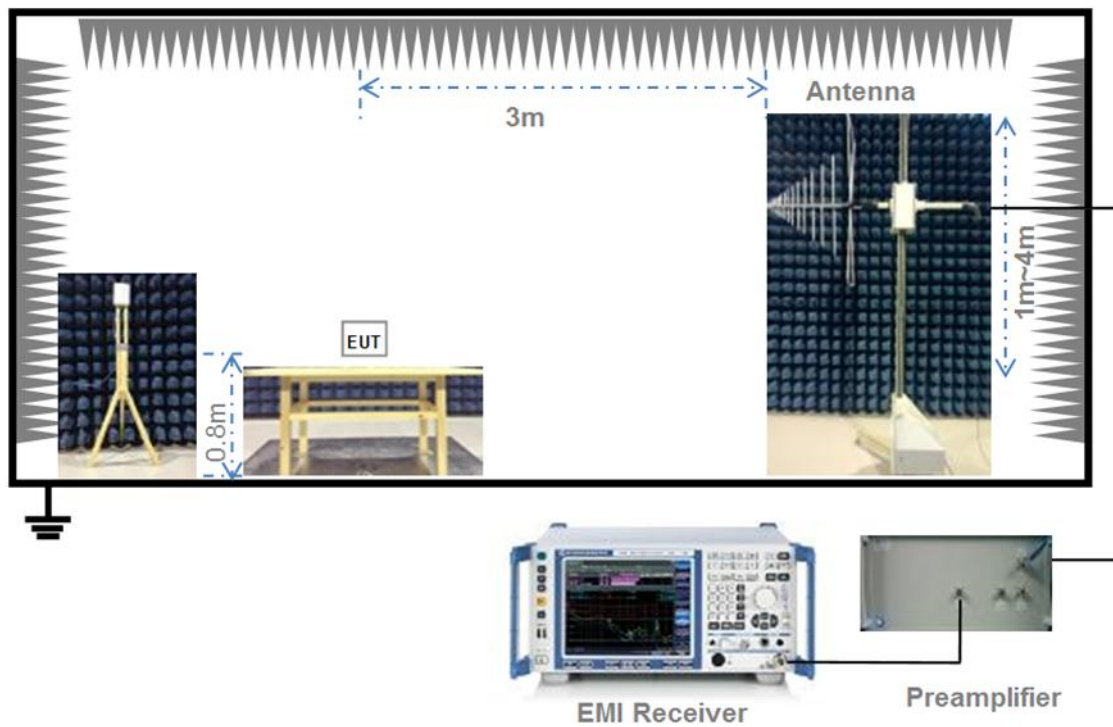
(Diagram 2)

4.6.3 For Radiated Test (Below 30 MHz)



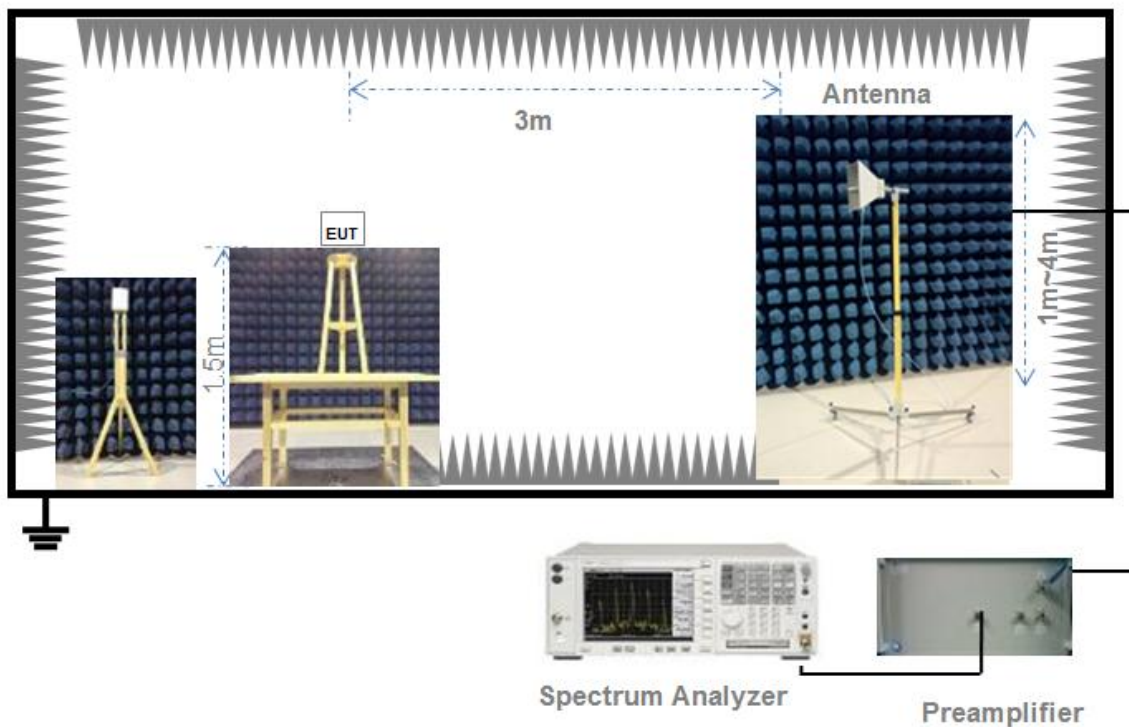
(Diagram 3)

4.6.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.6.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

Frequency Band (MHz)	Limit
5150-5250	250 mW
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where "B" is the 26 dB emissions bandwidth in MHz.	

5.1.2 Test Setup

The section 4.6.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Maximum conducted (average) output power

a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- 1) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.
- c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- d) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW $\geq$ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space

environment.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.2.2 Test Setup

The test setup photo please refer to 4.6.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW $\geq 3 \times$ RBW,
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

Occupied Bandwidth

1. Set Span = 1.5 times to 5.0 times the OBW
2. Set RBW = 1% to 5% of the OBW.
3. Set VBW $\geq 3 \times$ RBW,
4. Detector = Peak.
5. Trace mode = Max hold.
6. Use the 99% power bandwidth function of the instrument.

6 dB bandwidth

1. Set RBW = 100 kHz, VBW = 300 kHz.
2. Detector = Peak.
3. Trace mode = Max hold.
4. Allow the trace to stabilize.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.2.4 Test Result

Please refer to ANNEX A.2 and ANNEX A.3.

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	11 dBm/MHz
5250-5350	11 dBm/MHz
5470-5725	11 dBm/MHz
5725-5850	30 dBm/500kHz

5.3.2 Test Setup

The section 4.6.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.

1. Set RBW = 510 kHz/1 MHz, VBW $\geq 3 \times$ RBW, Sweep time = Auto, Detector = RMS.
2. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak marker function to determine the maximum amplitude level.
4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the U-NII-150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

5.4.2 Test Setup

The section 4.6.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

5.4.4 Test Result

Please refer to ANNEX A.5.

5.5 Radiated Spurious Emissions and Band Edge (Restricted-band)

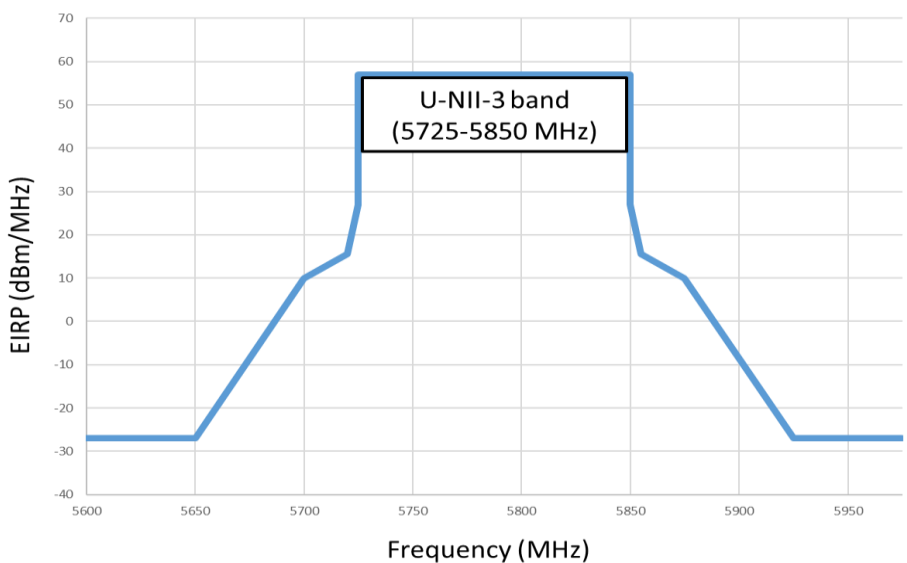
5.5.1 Limit

FCC §15.209 & 15.407(b)

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note ¹: The Limit for radiated test was performed according to FCC Part 15C

Note ²: The tighter limit applies at the band edge.

Un-restricted band emissions	
Out Operating Band (MHz)	Limit
5150 - 5250	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5250 - 5350	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5470 - 5725	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5725 - 5850	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. 

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength.

5.5.2 Test Setup

The section 4.6.3-4.6.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:
$$E = \text{EIRP} - 20\log D + 104.8$$
where:
E = electric field strength in dB μ V/m,
EIRP = equivalent isotropic radiated power in dBm
D = specified measurement distance in meters.
- f) Compare the resultant electric field strength level to the applicable limit.
- g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on

and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

Note 1: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note 2: The RF Output Power has considered the Duty Factor.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	2.02	3.32	60.86%
11n (HT20)	1.88	3.18	58.92%
11n (HT40)	0.92	2.22	41.27%

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	16.28	42.46	250	Pass
11a	CH44	16.38	43.45	250	Pass
11a	CH48	16.32	42.85	250	Pass
11n (HT20)	CH36	16.45	44.16	250	Pass
11n (HT20)	CH44	16.41	43.75	250	Pass
11n (HT20)	CH48	16.31	42.76	250	Pass
11n (HT40)	CH38	15.07	32.14	250	Pass
11n (HT40)	CH46	17.36	54.45	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	16.86	48.53	250	Pass
11a	CH60	16.94	49.43	250	Pass
11a	CH64	16.91	49.09	250	Pass
11n (HT20)	CH52	16.89	48.87	250	Pass
11n (HT20)	CH60	16.97	49.77	250	Pass
11n (HT20)	CH64	16.90	48.98	250	Pass
11n (HT40)	CH54	13.14	20.61	250	Pass
11n (HT40)	CH62	13.65	23.17	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	16.99	50.00	250	Pass
11a	CH116	17.33	54.08	250	Pass
11a	CH140	17.13	51.64	250	Pass
11n (HT20)	CH100	16.92	49.20	250	Pass
11n (HT20)	CH116	17.28	53.46	250	Pass
11n (HT20)	CH140	17.09	51.17	250	Pass
11n (HT40)	CH102	19.20	83.18	250	Pass
11n (HT40)	CH118	18.49	70.63	250	Pass
11n (HT40)	CH134	18.81	76.03	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	17.27	53.33	1000	Pass
11a	CH157	16.83	48.19	1000	Pass
11a	CH165	15.95	39.36	1000	Pass
11n (HT20)	CH149	17.33	54.08	1000	Pass
11n (HT20)	CH157	16.80	47.86	1000	Pass
11n (HT20)	CH165	17.19	52.36	1000	Pass
11n (HT40)	CH151	18.40	69.18	1000	Pass
11n (HT40)	CH159	17.94	62.23	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ2591432-603 Data Part 1.pdf".

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	29.04	16.64
11a	CH44	25.80	16.63
11a	CH48	31.70	16.68
11n (HT20)	CH36	27.11	17.83
11n (HT20)	CH44	26.34	17.80
11n (HT20)	CH48	28.89	17.87
11n (HT40)	CH38	71.57	36.13
11n (HT40)	CH46	71.55	36.09

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	32.04	16.74
11a	CH60	28.08	16.60
11a	CH64	26.58	16.65
11n (HT20)	CH52	30.43	17.92
11n (HT20)	CH60	26.62	17.80
11n (HT20)	CH64	27.29	17.81
11n (HT40)	CH54	71.73	36.24
11n (HT40)	CH62	61.29	36.06

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	22.20	16.52
11a	CH116	26.92	16.63
11a	CH140	28.00	16.65
11n (HT20)	CH100	21.41	17.73
11n (HT20)	CH116	27.00	17.81
11n (HT20)	CH140	27.07	17.83
11n (HT40)	CH102	61.18	36.07
11n (HT40)	CH118	69.41	36.17
11n (HT40)	CH134	71.69	36.24

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	24.29	16.55
11a	CH157	32.00	16.77
11a	CH165	31.78	16.75
11n (HT20)	CH149	28.90	17.90
11n (HT20)	CH157	29.53	17.92
11n (HT20)	CH165	28.93	17.90
11n (HT40)	CH151	72.51	36.31
11n (HT40)	CH159	74.07	36.32

A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ2591432-603 Data Part 2.pdf".

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.90	500.00	Pass
11a	CH157	16.10	500.00	Pass
11a	CH165	16.00	500.00	Pass
11n (HT20)	CH149	16.80	500.00	Pass
11n (HT20)	CH157	16.60	500.00	Pass
11n (HT20)	CH165	17.20	500.00	Pass
11n (HT40)	CH151	35.30	500.00	Pass
11n (HT40)	CH159	35.30	500.00	Pass

A.4 Power Spectral Density

Note¹: Test plots please refer to the document "Annex No.: BL-SZ2591432-603 Data Part 3.pdf".

Note²: The RBW used in U-NII-3 is 1 MHz, and the PSD factor is: $10 \cdot \log(500 \text{ kHz/RBW}) = -3 \text{ dBm}$.

Note³: The PSD has considered the Duty Factor.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	5.88	11.00	Pass
11a	CH44	5.57	11.00	Pass
11a	CH48	5.35	11.00	Pass
11n (HT20)	CH36	5.70	11.00	Pass
11n (HT20)	CH44	5.79	11.00	Pass
11n (HT20)	CH48	5.13	11.00	Pass
11n (HT40)	CH38	1.77	11.00	Pass
11n (HT40)	CH46	2.95	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	5.62	11.00	Pass
11a	CH60	6.90	11.00	Pass
11a	CH64	6.52	11.00	Pass
11n (HT20)	CH52	5.40	11.00	Pass
11n (HT20)	CH60	6.57	11.00	Pass
11n (HT20)	CH64	6.38	11.00	Pass
11n (HT40)	CH54	-0.95	11.00	Pass
11n (HT40)	CH62	-0.69	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	5.73	11.00	Pass
11a	CH116	6.70	11.00	Pass
11a	CH140	5.85	11.00	Pass
11n (HT20)	CH100	5.60	11.00	Pass
11n (HT20)	CH116	7.11	11.00	Pass
11n (HT20)	CH140	5.81	11.00	Pass
11n (HT40)	CH102	5.05	11.00	Pass
11n (HT40)	CH118	4.48	11.00	Pass
11n (HT40)	CH134	4.54	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	3.48	30.00	Pass
11a	CH157	4.46	30.00	Pass
11a	CH165	3.64	30.00	Pass
11n (HT20)	CH149	4.31	30.00	Pass
11n (HT20)	CH157	4.31	30.00	Pass
11n (HT20)	CH165	4.62	30.00	Pass
11n (HT40)	CH151	1.83	30.00	Pass
11n (HT40)	CH159	1.30	30.00	Pass

A.5 Conducted Emission

Note: Not applicable.

A.6 Radiated Spurious Emissions and Band Edge (Restricted-band)

A.6.1 Radiated Spurious Emissions

Test Data

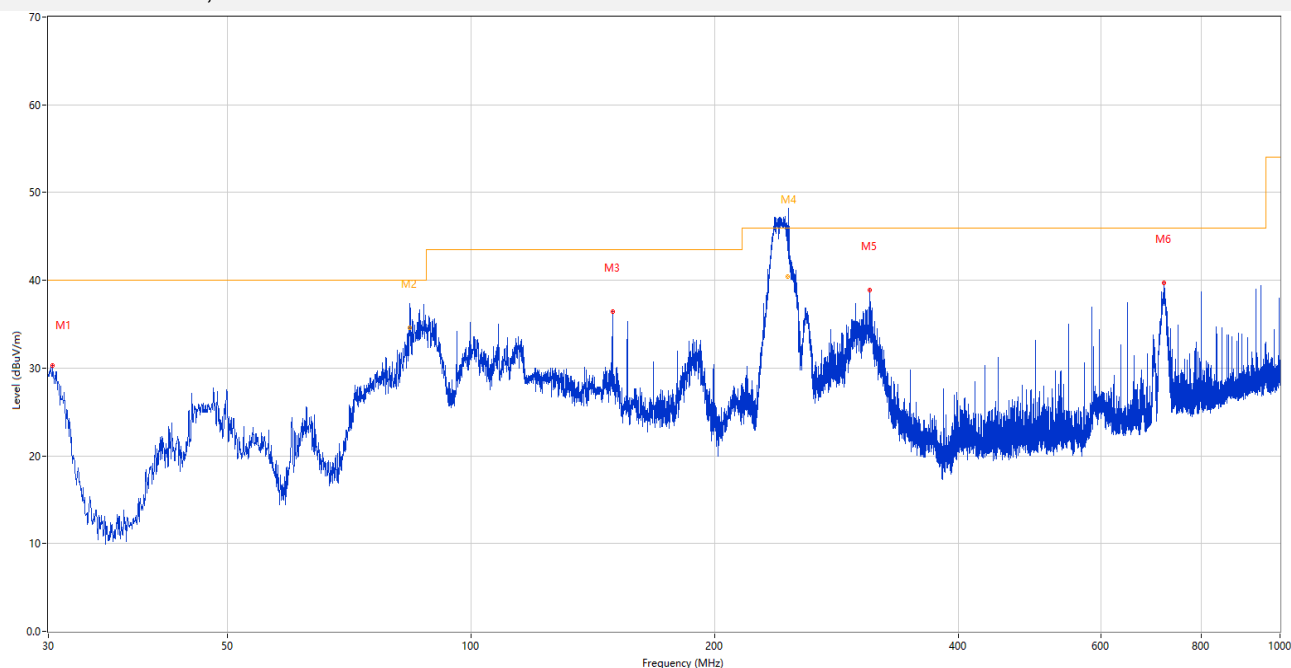
Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

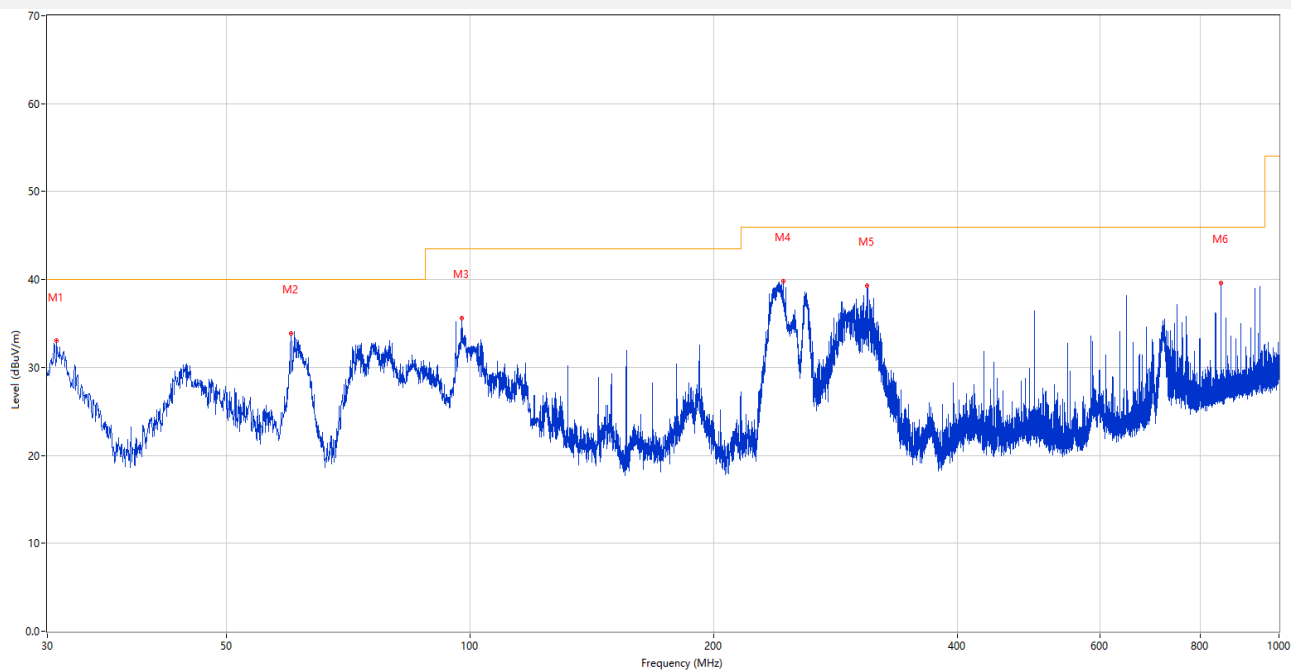
Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.388	30.29	-28.96	40.0	9.71	Peak	12.00	200	Horizontal	Pass
2	83.995	39.02	-30.05	40.0	0.98	Peak	181.00	200	Horizontal	N/A
2*	83.995	34.64	-30.05	40.0	5.36	QP	181.00	200	Horizontal	Pass
3	149.504	36.46	-29.60	43.5	7.04	Peak	118.00	100	Horizontal	Pass
4	246.386	47.41	-24.20	46.0	-1.41	Peak	89.00	101	Horizontal	N/A
4*	246.386	40.46	-24.20	46.0	5.54	QP	89.00	101	Horizontal	Pass
5	310.718	38.89	-23.17	46.0	7.11	Peak	16.00	100	Horizontal	Pass
6	718.312	39.73	-13.35	46.0	6.27	Peak	8.00	200	Horizontal	Pass

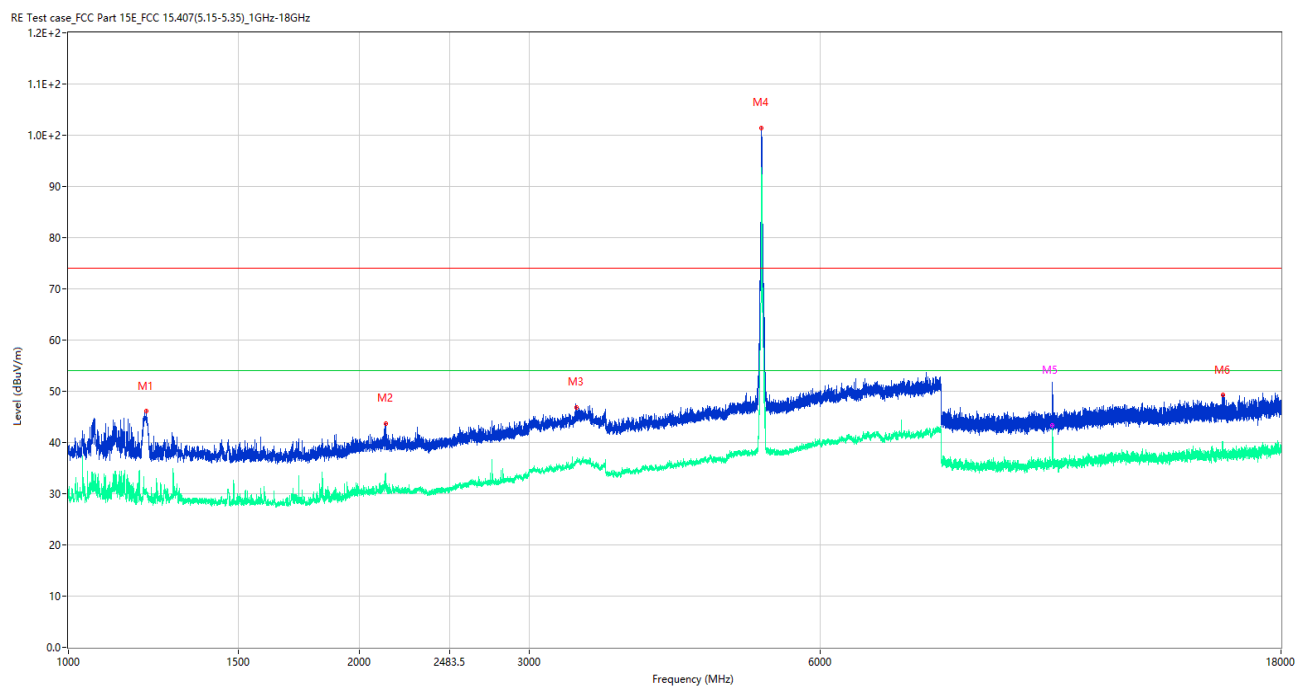
30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.825	33.01	-29.06	40.0	6.99	Peak	268.00	100	Vertical	Pass
2	59.973	33.84	-26.02	40.0	6.16	Peak	298.00	100	Vertical	Pass
3	97.658	35.59	-26.28	43.5	7.91	Peak	188.00	100	Vertical	Pass
4	243.642	39.77	-24.29	46.0	6.23	Peak	45.00	200	Vertical	Pass
5	309.845	39.35	-23.20	46.0	6.65	Peak	98.00	100	Vertical	Pass
6	847.128	39.65	-10.51	46.0	6.35	Peak	129.00	100	Vertical	Pass

Note: The spurious above 18G is noise only, do not show on the report.

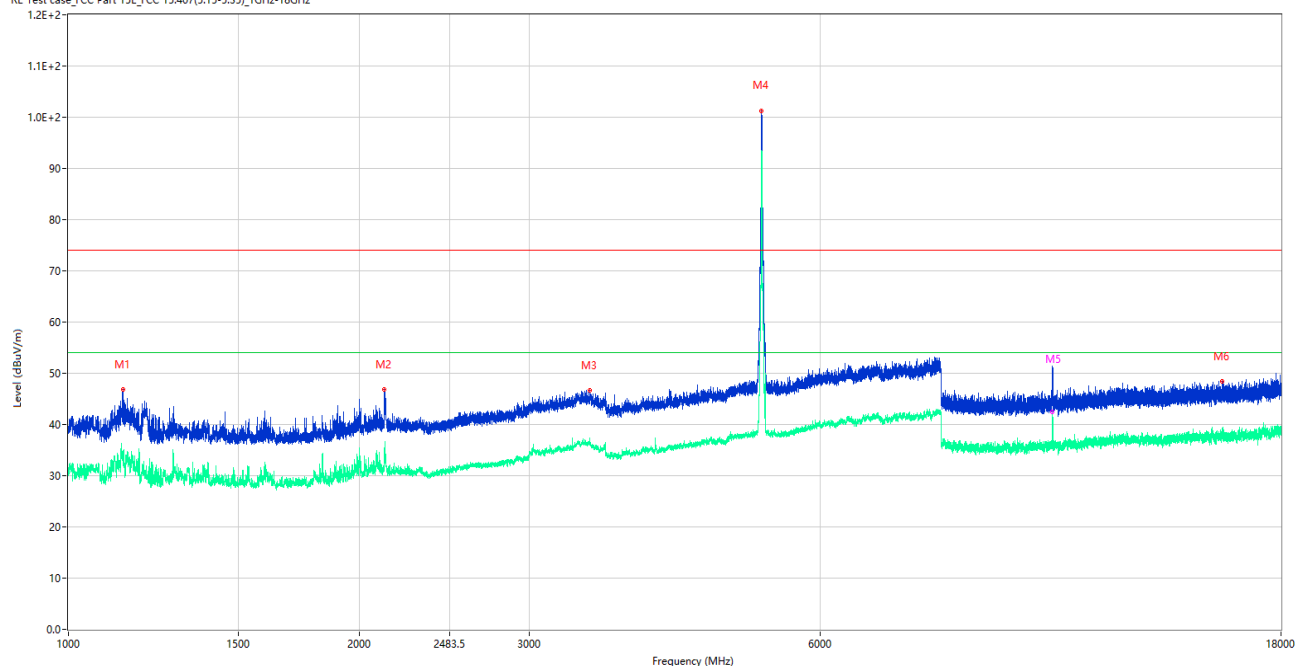
11a, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1204.000	46.14	-15.77	74.0	27.86	Peak	255.00	150	Horizontal	Pass
1**	1204.000	30.42	-15.77	54.0	23.58	AV	255.00	150	Horizontal	Pass
2	2129.750	43.73	-13.26	74.0	30.27	Peak	360.00	150	Horizontal	Pass
2**	2129.750	33.54	-13.26	54.0	20.46	AV	360.00	150	Horizontal	Pass
3	3356.000	46.89	-6.27	74.0	27.11	Peak	19.00	150	Horizontal	Pass
3**	3356.000	36.41	-6.27	54.0	17.59	AV	19.00	150	Horizontal	Pass
4	5215.500	101.42	-2.32	74.0	-27.42	Peak	182.00	150	Horizontal	N/A
4**	5215.500	93.36	-2.32	54.0	-39.36	AV	182.00	150	Horizontal	N/A
5	10443.400	51.78	-3.30	74.0	22.22	Peak	217.00	150	Horizontal	Pass
5**	10443.400	43.35	-3.30	54.0	10.65	AV	217.00	150	Horizontal	Pass
6	15662.175	49.22	-1.45	74.0	24.78	Peak	253.00	150	Horizontal	Pass
6**	15662.175	39.36	-1.45	54.0	14.64	AV	253.00	150	Horizontal	Pass

11a, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

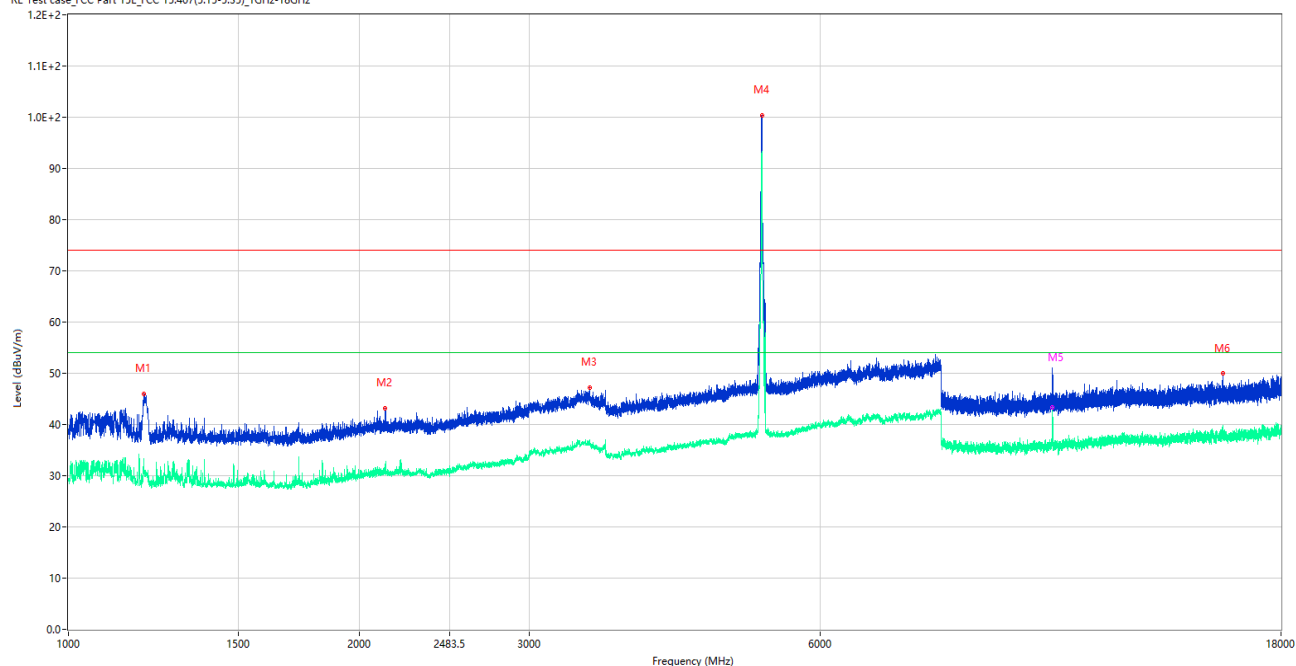
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1139.500	46.82	-15.55	74.0	27.18	Peak	253.00	150	Vertical	Pass
1**	1139.500	34.40	-15.55	54.0	19.60	AV	253.00	150	Vertical	Pass
2	2124.250	46.77	-13.28	74.0	27.23	Peak	360.00	150	Vertical	Pass
2**	2124.250	34.07	-13.28	54.0	19.93	AV	360.00	150	Vertical	Pass
3	3465.500	46.58	-5.12	74.0	27.42	Peak	20.00	150	Vertical	Pass
3**	3465.500	37.40	-5.12	54.0	16.60	AV	20.00	150	Vertical	Pass
4	5220.000	101.27	-2.36	74.0	-27.27	Peak	359.00	150	Vertical	N/A
4**	5220.000	92.68	-2.36	54.0	-38.68	AV	359.00	150	Vertical	N/A
5	10439.838	47.73	-3.44	74.0	26.27	Peak	144.00	150	Vertical	Pass
5**	10439.838	42.41	-3.44	54.0	11.59	AV	144.00	150	Vertical	Pass
6	15657.187	48.35	-1.43	74.0	25.65	Peak	217.00	150	Vertical	Pass
6**	15657.187	39.17	-1.43	54.0	14.83	AV	217.00	150	Vertical	Pass

11n20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

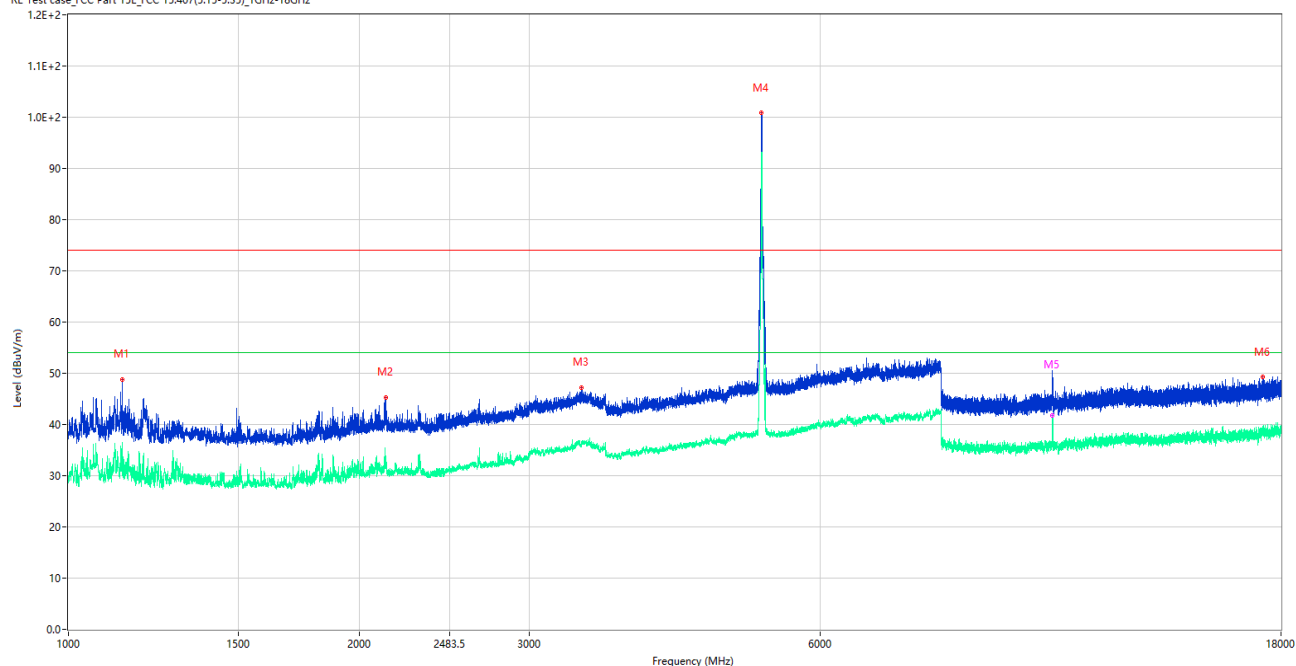
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.250	45.97	-15.72	74.0	28.03	Peak	257.00	150	Horizontal	Pass
1**	1196.250	33.26	-15.72	54.0	20.74	AV	257.00	150	Horizontal	Pass
2	2128.750	43.23	-13.26	74.0	30.77	Peak	321.00	150	Horizontal	Pass
2**	2128.750	30.80	-13.26	54.0	23.20	AV	321.00	150	Horizontal	Pass
3	3464.500	47.25	-5.08	74.0	26.75	Peak	282.00	150	Horizontal	Pass
3**	3464.500	36.45	-5.08	54.0	17.55	AV	282.00	150	Horizontal	Pass
4	5225.500	100.36	-2.34	74.0	-26.36	Peak	181.00	150	Horizontal	N/A
4**	5225.500	92.89	-2.34	54.0	-38.89	AV	181.00	150	Horizontal	N/A
5	10442.213	48.38	-3.30	74.0	25.62	Peak	193.00	150	Horizontal	Pass
5**	10442.213	43.40	-3.30	54.0	10.60	AV	193.00	150	Horizontal	Pass
6	15664.012	49.94	-1.51	74.0	24.06	Peak	250.00	150	Horizontal	Pass
6**	15664.012	39.85	-1.51	54.0	14.15	AV	250.00	150	Horizontal	Pass

11n20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

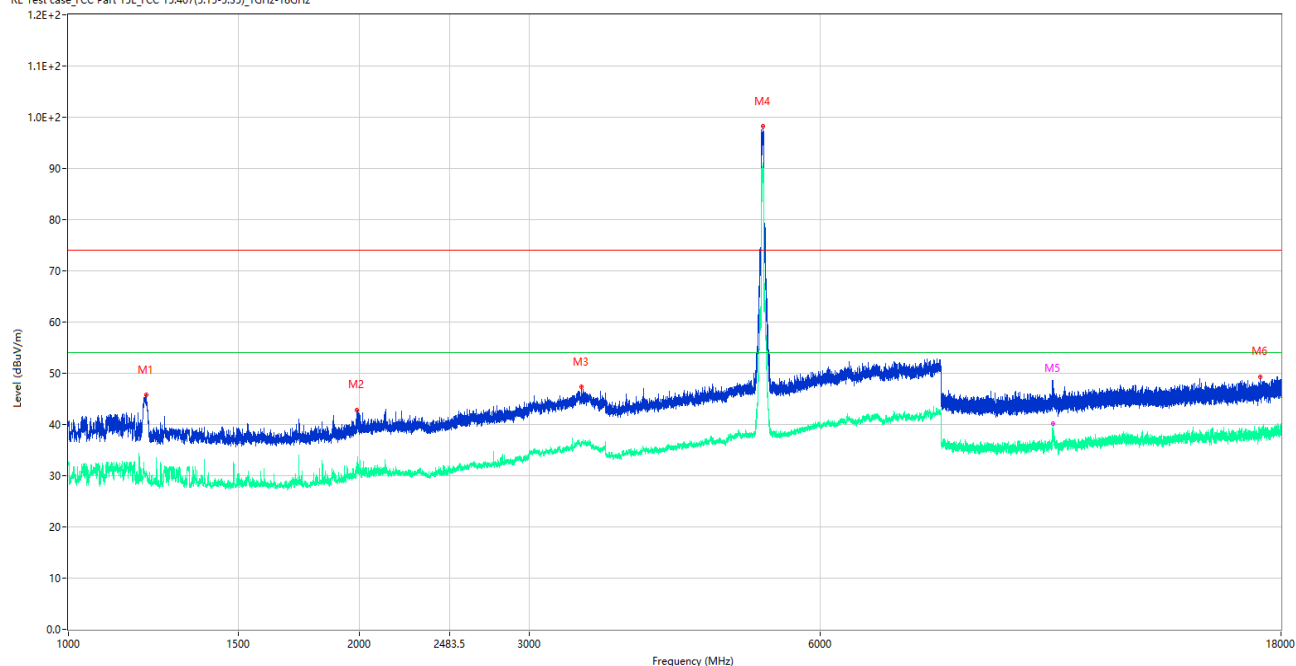
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1137.500	48.79	-15.54	74.0	25.21	Peak	294.00	150	Vertical	Pass
1**	1137.500	32.20	-15.54	54.0	21.80	AV	294.00	150	Vertical	Pass
2	2132.000	45.29	-13.35	74.0	28.71	Peak	252.00	150	Vertical	Pass
2**	2132.000	33.78	-13.35	54.0	20.22	AV	252.00	150	Vertical	Pass
3	3395.500	47.21	-5.85	74.0	26.79	Peak	267.00	150	Vertical	Pass
3**	3395.500	35.94	-5.85	54.0	18.06	AV	267.00	150	Vertical	Pass
4	5215.500	100.86	-2.32	74.0	-26.86	Peak	344.00	150	Vertical	N/A
4**	5215.500	92.64	-2.32	54.0	-38.64	AV	344.00	150	Vertical	N/A
5	10436.987	48.98	-3.33	74.0	25.02	Peak	145.00	150	Vertical	Pass
5**	10436.987	41.79	-3.33	54.0	12.21	AV	145.00	150	Vertical	Pass
6	17251.351	49.28	-0.64	74.0	24.72	Peak	47.00	150	Vertical	Pass
6**	17251.351	39.02	-0.64	54.0	14.98	AV	47.00	150	Vertical	Pass

11n40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

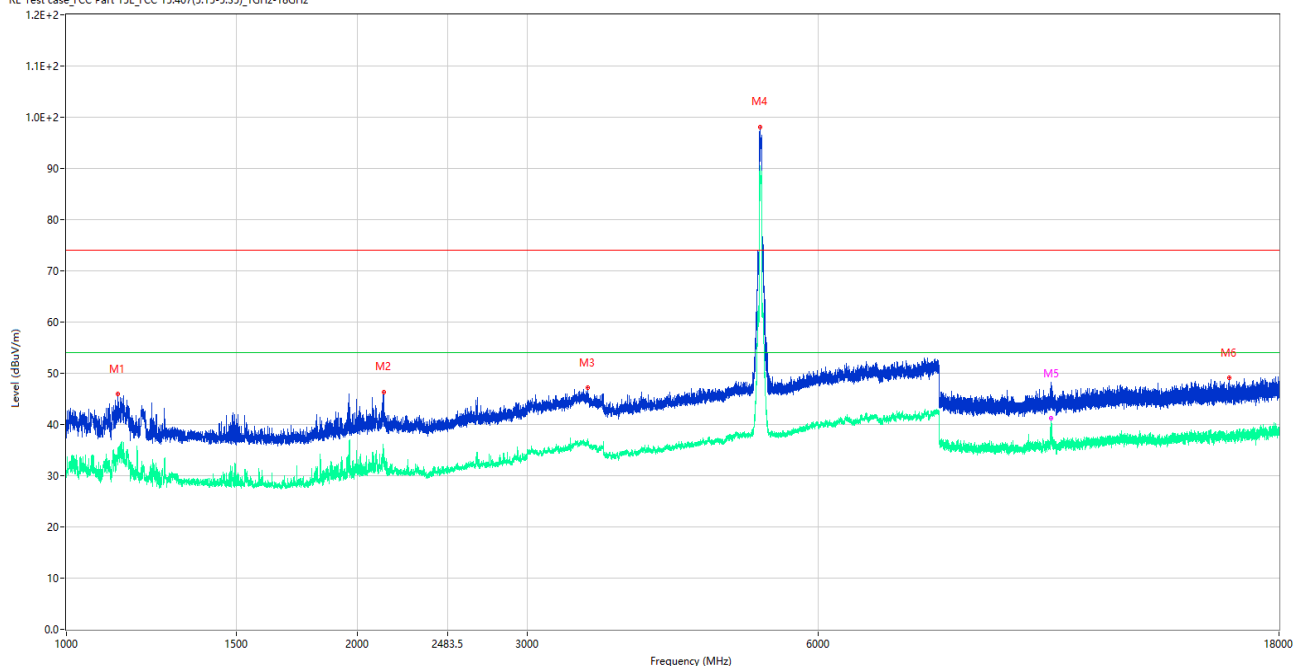
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1203.750	45.78	-15.77	74.0	28.22	Peak	258.00	150	Horizontal	Pass
1**	1203.750	29.98	-15.77	54.0	24.02	AV	258.00	150	Horizontal	Pass
2	1990.750	42.85	-14.72	74.0	31.15	Peak	360.00	150	Horizontal	Pass
2**	1990.750	32.15	-14.72	54.0	21.85	AV	360.00	150	Horizontal	Pass
3	3399.000	47.34	-5.71	74.0	26.66	Peak	4.00	150	Horizontal	Pass
3**	3399.000	36.25	-5.71	54.0	17.75	AV	4.00	150	Horizontal	Pass
4	5238.000	98.17	-2.24	74.0	-24.17	Peak	179.00	150	Horizontal	N/A
4**	5238.000	90.70	-2.24	54.0	-36.70	AV	179.00	150	Horizontal	N/A
5	10462.638	46.54	-3.60	74.0	27.46	Peak	237.00	150	Horizontal	Pass
5**	10462.638	40.18	-3.60	54.0	13.82	AV	237.00	150	Horizontal	Pass
6	17119.051	49.30	-0.22	74.0	24.70	Peak	360.00	150	Horizontal	Pass
6**	17119.051	38.68	-0.22	54.0	15.32	AV	360.00	150	Horizontal	Pass

11n40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

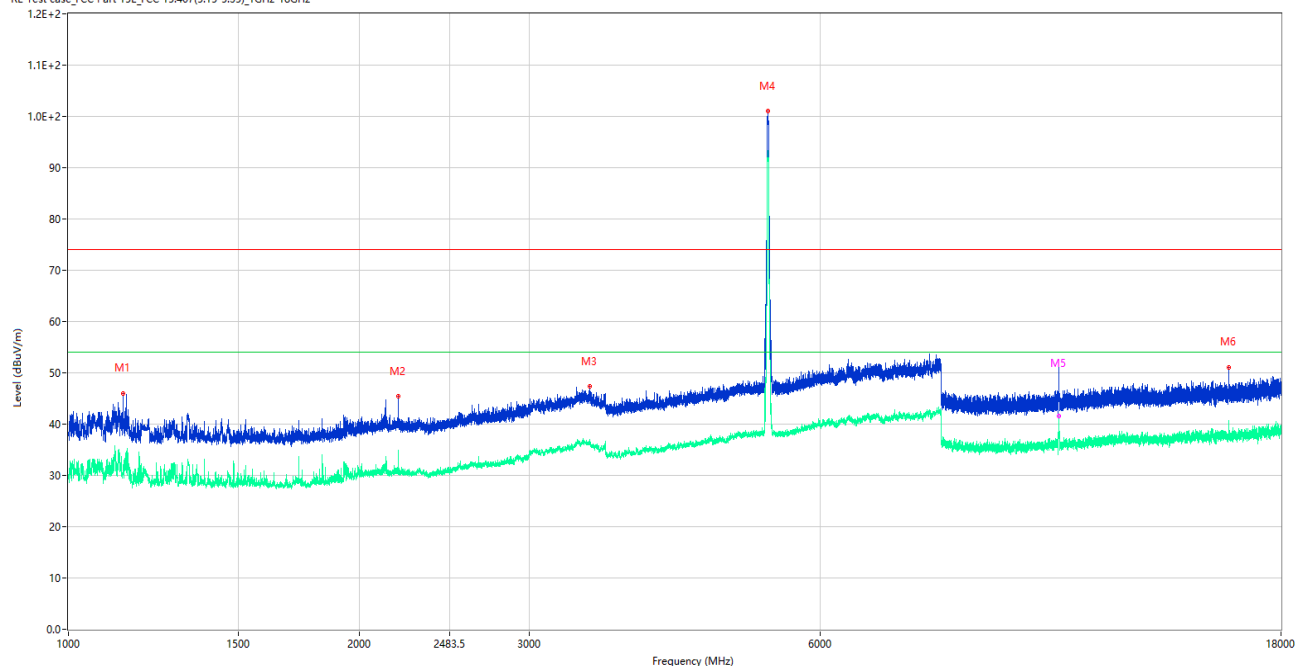
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1130.500	46.04	-15.56	74.0	27.96	Peak	127.00	150	Vertical	Pass
1**	1130.500	33.69	-15.56	54.0	20.31	AV	127.00	150	Vertical	Pass
2	2129.750	46.36	-13.26	74.0	27.64	Peak	277.00	150	Vertical	Pass
2**	2129.750	35.07	-13.26	54.0	18.93	AV	277.00	150	Vertical	Pass
3	3461.500	47.15	-5.00	74.0	26.85	Peak	358.00	150	Vertical	Pass
3**	3461.500	36.53	-5.00	54.0	17.47	AV	358.00	150	Vertical	Pass
4	5226.500	98.15	-2.32	74.0	-24.15	Peak	346.00	150	Vertical	N/A
4**	5226.500	90.32	-2.32	54.0	-36.32	AV	346.00	150	Vertical	N/A
5	10459.076	47.45	-3.69	74.0	26.55	Peak	144.00	150	Vertical	Pass
5**	10459.076	41.23	-3.69	54.0	12.77	AV	144.00	150	Vertical	Pass
6	15977.962	49.10	-2.58	74.0	24.90	Peak	114.00	150	Vertical	Pass
6**	15977.962	37.72	-2.58	54.0	16.28	AV	114.00	150	Vertical	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

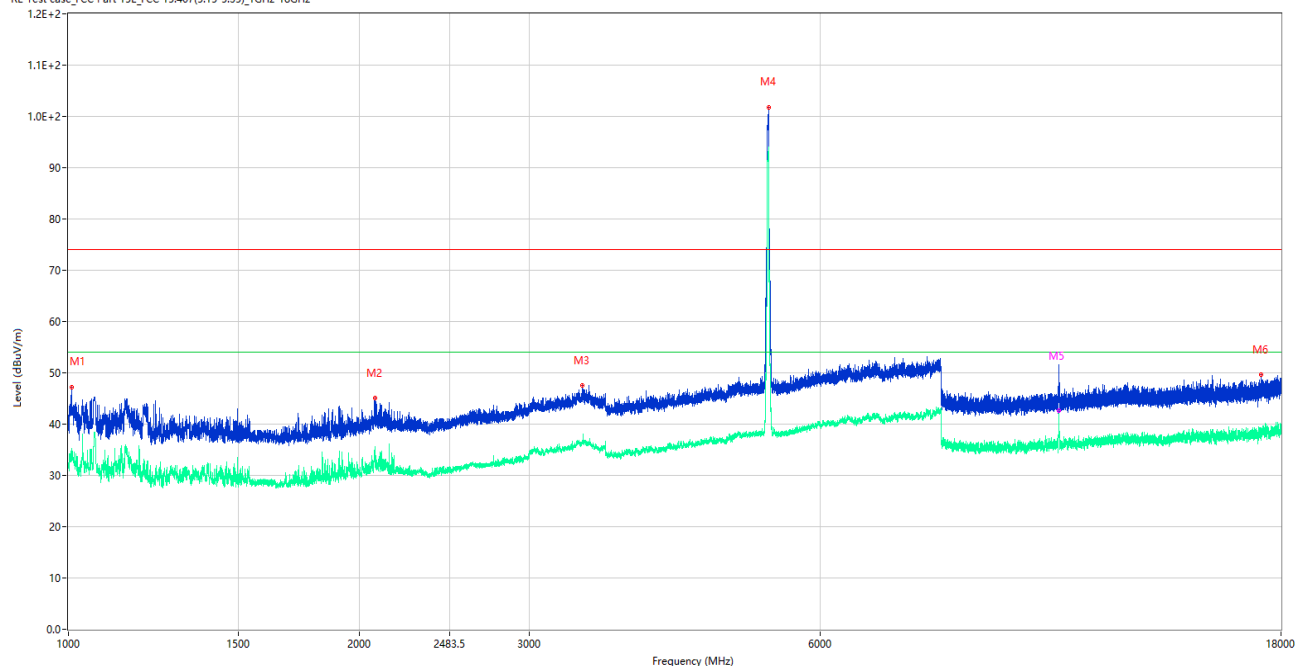
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1140.000	45.99	-15.57	74.0	28.01	Peak	208.00	150	Horizontal	Pass
1**	1140.000	30.96	-15.57	54.0	23.04	AV	208.00	150	Horizontal	Pass
2	2195.500	45.40	-13.32	74.0	28.60	Peak	0.00	150	Horizontal	Pass
2**	2195.500	32.22	-13.32	54.0	21.78	AV	0.00	150	Horizontal	Pass
3	3462.000	47.31	-5.05	74.0	26.69	Peak	1.00	150	Horizontal	Pass
3**	3462.000	36.06	-5.05	54.0	17.94	AV	1.00	150	Horizontal	Pass
4	5295.000	101.03	-2.00	74.0	-27.03	Peak	130.00	150	Horizontal	N/A
4**	5295.000	93.06	-2.00	54.0	-39.06	AV	130.00	150	Horizontal	N/A
5	10597.775	48.06	-3.65	74.0	25.94	Peak	261.00	150	Horizontal	Pass
5**	10597.775	41.66	-3.65	54.0	12.34	AV	261.00	150	Horizontal	Pass
6	15898.424	51.06	-1.80	74.0	22.94	Peak	243.00	150	Horizontal	Pass
6**	15898.424	38.52	-1.80	54.0	15.48	AV	243.00	150	Horizontal	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

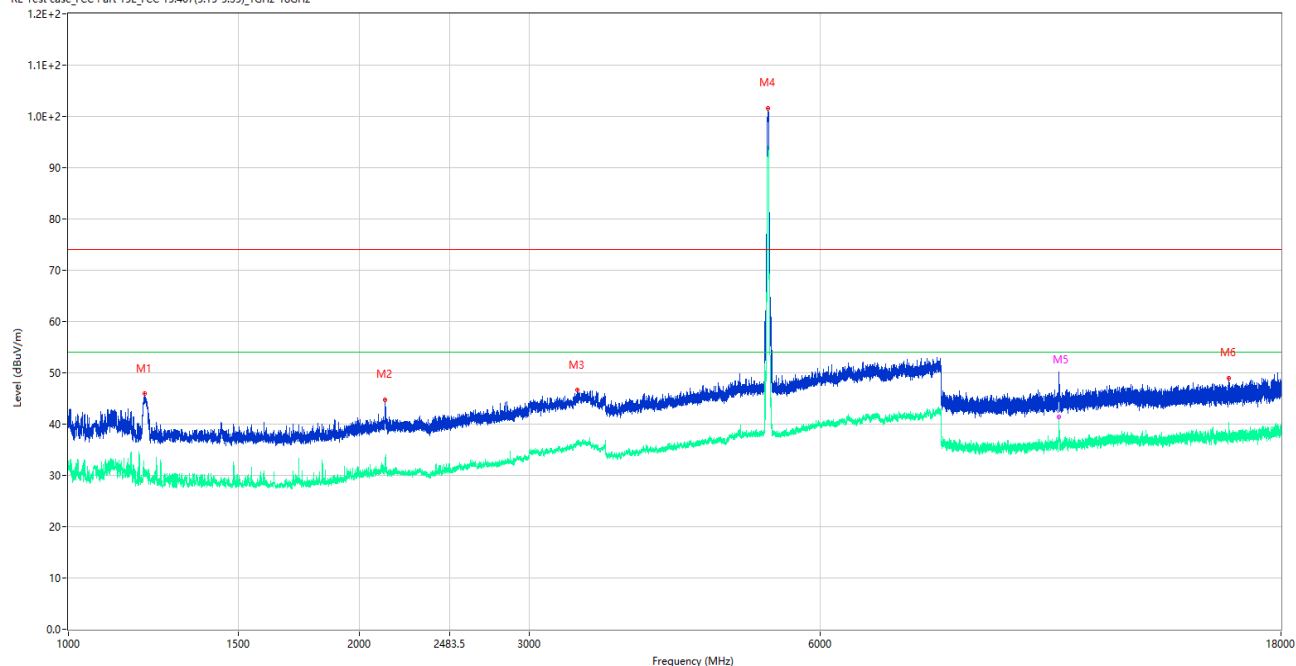
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1007.000	47.16	-14.20	74.0	26.84	Peak	157.00	150	Vertical	Pass
1**	1007.000	32.85	-14.20	54.0	21.15	AV	157.00	150	Vertical	Pass
2	2075.250	45.01	-13.77	74.0	28.99	Peak	262.00	150	Vertical	Pass
2**	2075.250	34.18	-13.77	54.0	19.82	AV	262.00	150	Vertical	Pass
3	3407.000	47.54	-5.36	74.0	26.46	Peak	297.00	150	Vertical	Pass
3**	3407.000	36.32	-5.36	54.0	17.68	AV	297.00	150	Vertical	Pass
4	5304.000	101.76	-2.02	74.0	-27.76	Peak	149.00	150	Vertical	N/A
4**	5304.000	91.76	-2.02	54.0	-37.76	AV	149.00	150	Vertical	N/A
5	10599.912	48.78	-3.67	74.0	25.22	Peak	120.00	150	Vertical	Pass
5**	10599.912	42.59	-3.67	54.0	11.41	AV	120.00	150	Vertical	Pass
6	17181.786	49.57	-0.03	74.0	24.43	Peak	75.00	150	Vertical	Pass
6**	17181.786	38.88	-0.03	54.0	15.12	AV	75.00	150	Vertical	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

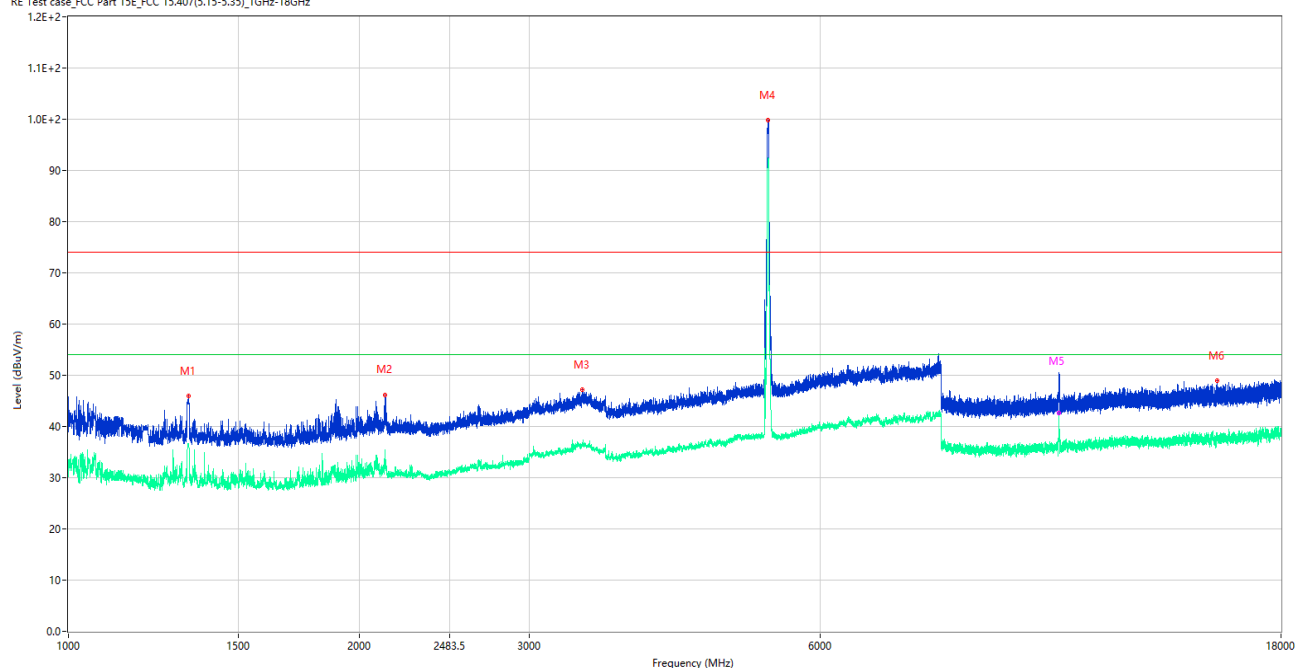
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1198.250	45.91	-15.74	74.0	28.09	Peak	255.00	150	Horizontal	Pass
1**	1198.250	29.92	-15.74	54.0	24.08	AV	255.00	150	Horizontal	Pass
2	2125.750	44.77	-13.30	74.0	29.23	Peak	264.00	150	Horizontal	Pass
2**	2125.750	32.67	-13.30	54.0	21.33	AV	264.00	150	Horizontal	Pass
3	3362.500	46.61	-5.50	74.0	27.39	Peak	151.00	150	Horizontal	Pass
3**	3362.500	36.29	-5.50	54.0	17.71	AV	151.00	150	Horizontal	Pass
4	5298.500	101.59	-2.03	74.0	-27.59	Peak	132.00	150	Horizontal	N/A
4**	5298.500	93.58	-2.03	54.0	-39.58	AV	132.00	150	Horizontal	N/A
5	10599.675	48.08	-3.67	74.0	25.92	Peak	261.00	150	Horizontal	Pass
5**	10599.675	41.41	-3.67	54.0	12.59	AV	261.00	150	Horizontal	Pass
6	15890.025	48.97	-1.59	74.0	25.03	Peak	246.00	150	Horizontal	Pass
6**	15890.025	37.87	-1.59	54.0	16.13	AV	246.00	150	Horizontal	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

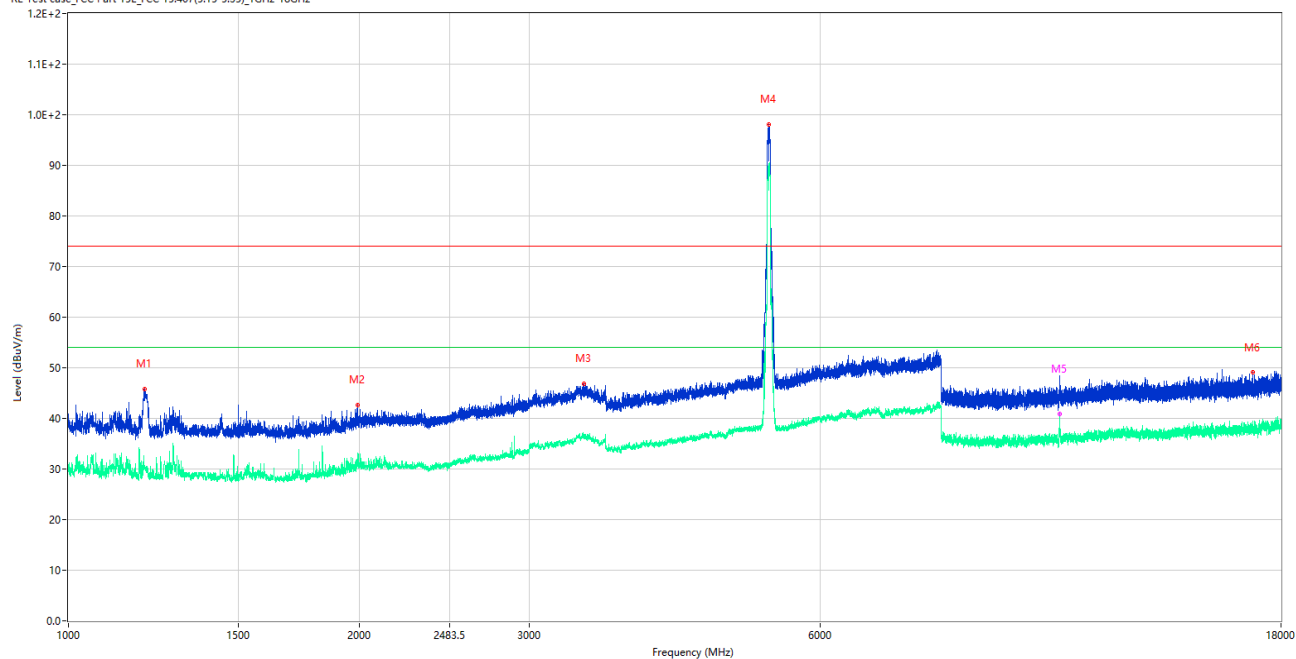
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.750	45.90	-15.99	74.0	28.10	Peak	253.00	150	Vertical	Pass
1**	1330.750	36.39	-15.99	54.0	17.61	AV	253.00	150	Vertical	Pass
2	2126.250	46.15	-13.29	74.0	27.85	Peak	356.00	150	Vertical	Pass
2**	2126.250	32.79	-13.29	54.0	21.21	AV	356.00	150	Vertical	Pass
3	3401.000	47.13	-5.63	74.0	26.87	Peak	278.00	150	Vertical	Pass
3**	3401.000	36.88	-5.63	54.0	17.12	AV	278.00	150	Vertical	Pass
4	5298.000	99.79	-2.04	74.0	-25.79	Peak	131.00	150	Vertical	N/A
4**	5298.000	92.30	-2.04	54.0	-38.30	AV	131.00	150	Vertical	N/A
5	10603.000	47.37	-3.66	74.0	26.63	Peak	166.00	150	Vertical	Pass
5**	10603.000	42.69	-3.66	54.0	11.31	AV	166.00	150	Vertical	Pass
6	15451.125	48.91	-2.00	74.0	25.09	Peak	0.00	150	Vertical	Pass
6**	15451.125	38.70	-2.00	54.0	15.30	AV	0.00	150	Vertical	Pass

11n40, U-NII-2A, 1 GHz to 18 GHz, Low Channel, ANT H

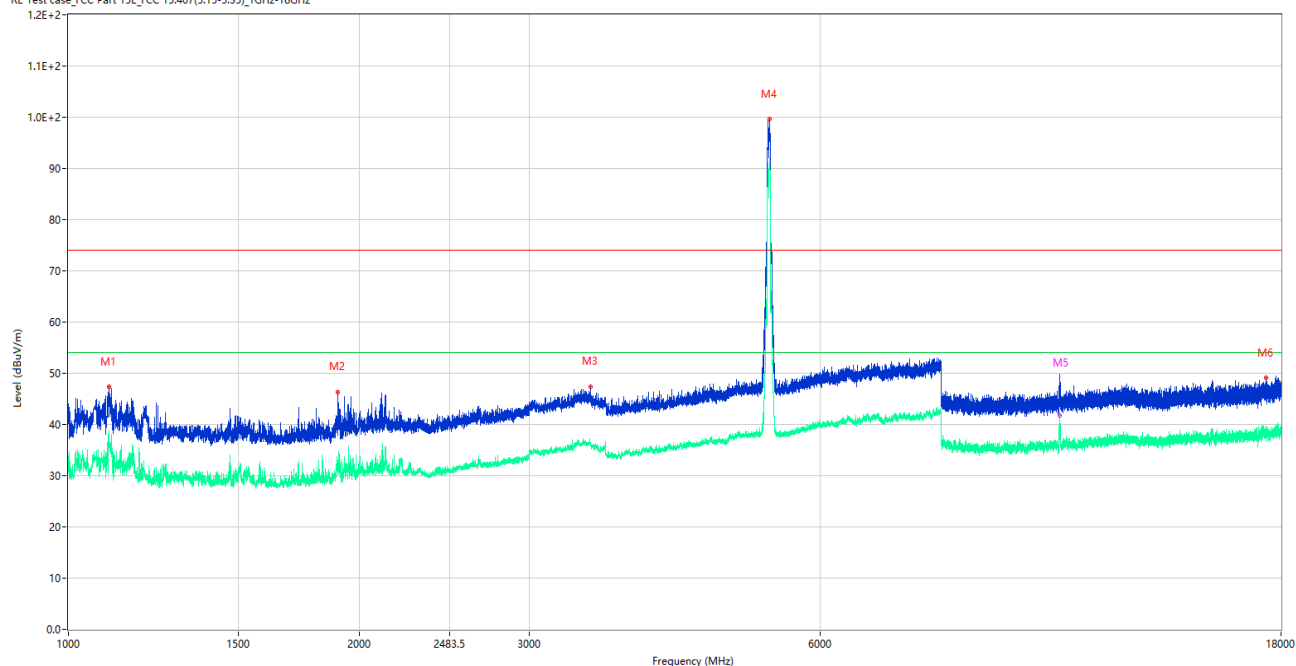
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.500	45.82	-15.75	74.0	28.18	Peak	256.00	150	Horizontal	Pass
1**	1199.500	30.17	-15.75	54.0	23.83	AV	256.00	150	Horizontal	Pass
2	1992.000	42.71	-14.68	74.0	31.29	Peak	0.00	150	Horizontal	Pass
2**	1992.000	32.43	-14.68	54.0	21.57	AV	0.00	150	Horizontal	Pass
3	3415.000	46.90	-5.19	74.0	27.10	Peak	316.00	150	Horizontal	Pass
3**	3415.000	36.47	-5.19	54.0	17.53	AV	316.00	150	Horizontal	Pass
4	5308.500	98.14	-2.00	74.0	-24.14	Peak	136.00	150	Horizontal	N/A
4**	5308.500	90.30	-2.00	54.0	-36.30	AV	136.00	150	Horizontal	N/A
5	10618.675	46.48	-4.08	74.0	27.52	Peak	191.00	150	Horizontal	Pass
5**	10618.675	40.79	-4.08	54.0	13.21	AV	191.00	150	Horizontal	Pass
6	16822.426	49.06	-1.20	74.0	24.94	Peak	346.00	150	Horizontal	Pass
6**	16822.426	37.64	-1.20	54.0	16.36	AV	346.00	150	Horizontal	Pass

11n40, U-NII-2A, 1 GHz to 18 GHz, Low Channel, ANT V

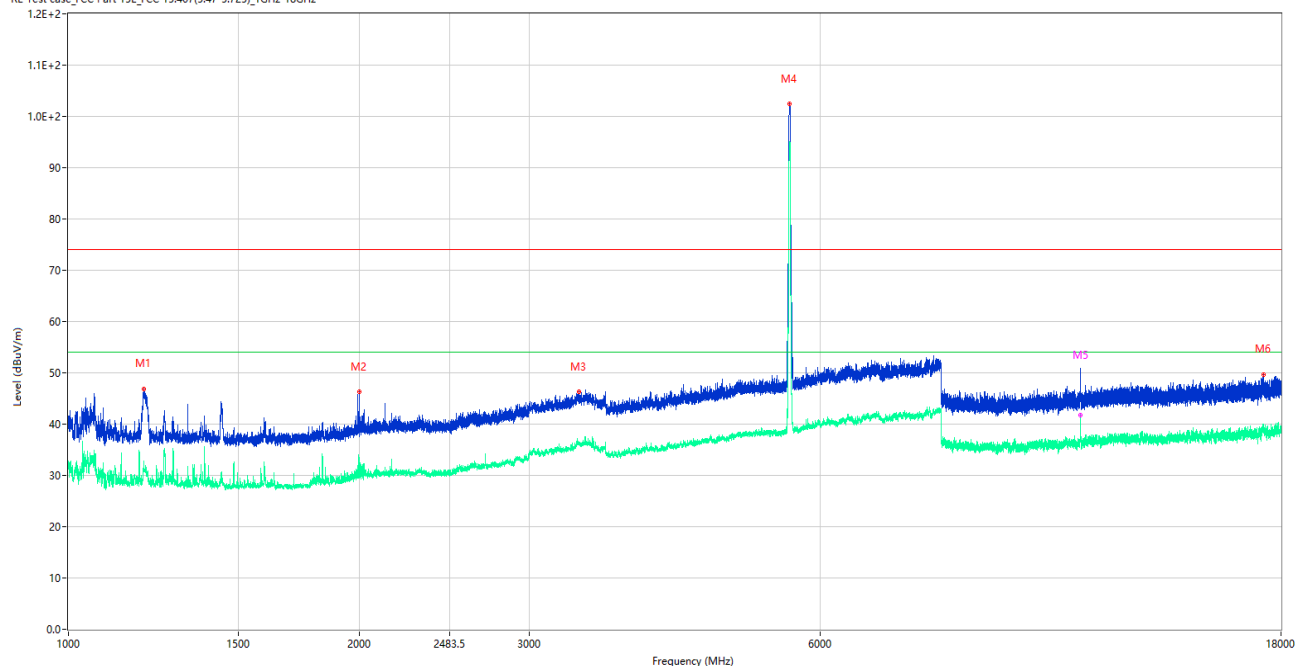
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1101.000	47.30	-15.73	74.0	26.70	Peak	236.00	150	Vertical	Pass
1**	1101.000	37.03	-15.73	54.0	16.97	AV	236.00	150	Vertical	Pass
2	1902.250	46.35	-15.53	74.0	27.65	Peak	248.00	150	Vertical	Pass
2**	1902.250	30.73	-15.53	54.0	23.27	AV	248.00	150	Vertical	Pass
3	3470.000	47.42	-5.53	74.0	26.58	Peak	270.00	150	Vertical	Pass
3**	3470.000	35.93	-5.53	54.0	18.07	AV	270.00	150	Vertical	Pass
4	5317.000	99.63	-2.16	74.0	-25.63	Peak	142.00	150	Vertical	N/A
4**	5317.000	89.66	-2.16	54.0	-35.66	AV	142.00	150	Vertical	N/A
5	10622.000	47.63	-4.10	74.0	26.37	Peak	168.00	150	Vertical	Pass
5**	10622.000	41.77	-4.10	54.0	12.23	AV	168.00	150	Vertical	Pass
6	17364.488	49.07	0.10	74.0	24.93	Peak	346.00	150	Vertical	Pass
6**	17364.488	38.55	0.10	54.0	15.45	AV	346.00	150	Vertical	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

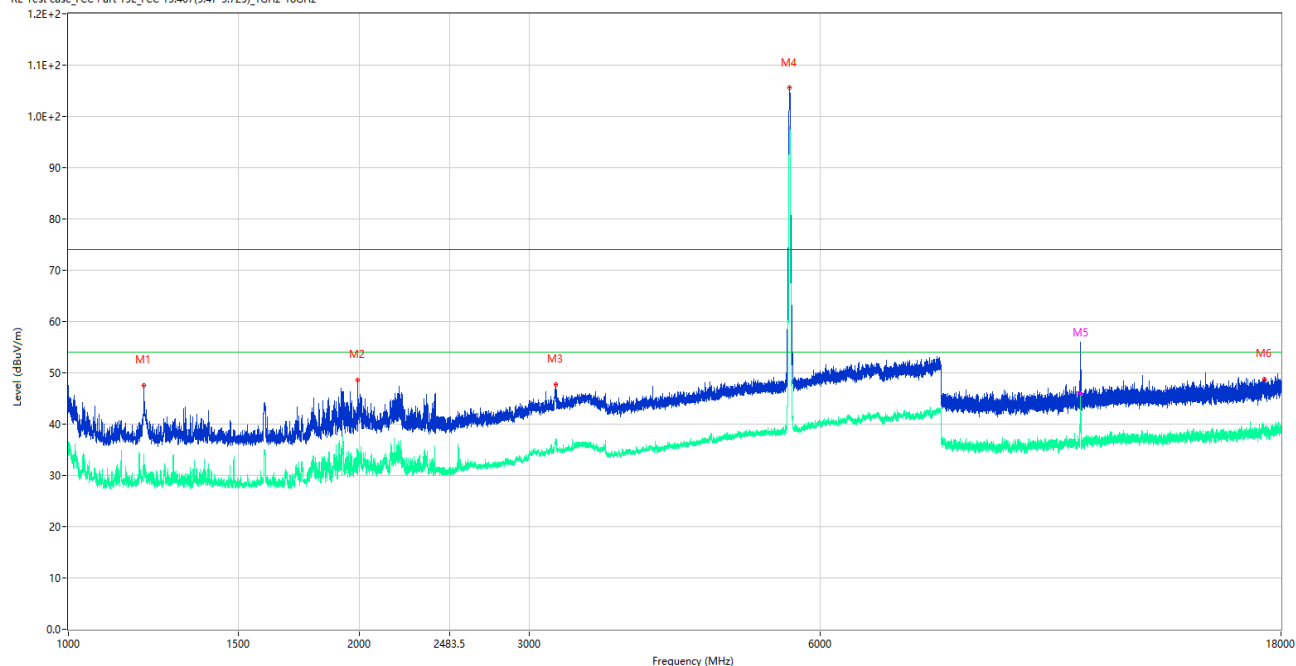
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.500	46.92	-15.72	74.0	27.08	Peak	290.00	150	Horizontal	Pass
1**	1197.500	31.00	-15.72	54.0	23.00	AV	290.00	150	Horizontal	Pass
2	2000.000	46.25	-14.31	74.0	27.75	Peak	126.00	150	Horizontal	Pass
2**	2000.000	29.97	-14.31	54.0	24.03	AV	126.00	150	Horizontal	Pass
3	3378.000	46.28	-4.99	74.0	27.72	Peak	359.00	150	Horizontal	Pass
3**	3378.000	35.90	-4.99	54.0	18.10	AV	359.00	150	Horizontal	Pass
4	5583.000	102.40	-2.83	74.0	-28.40	Peak	90.00	150	Horizontal	N/A
4**	5583.000	94.87	-2.83	54.0	-40.87	AV	90.00	150	Horizontal	N/A
5	11158.988	48.88	-4.02	74.0	25.12	Peak	215.00	150	Horizontal	Pass
5**	11158.988	41.84	-4.02	54.0	12.16	AV	215.00	150	Horizontal	Pass
6	17257.126	49.66	-1.10	74.0	24.34	Peak	115.00	150	Horizontal	Pass
6**	17257.126	39.04	-1.10	54.0	14.96	AV	115.00	150	Horizontal	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

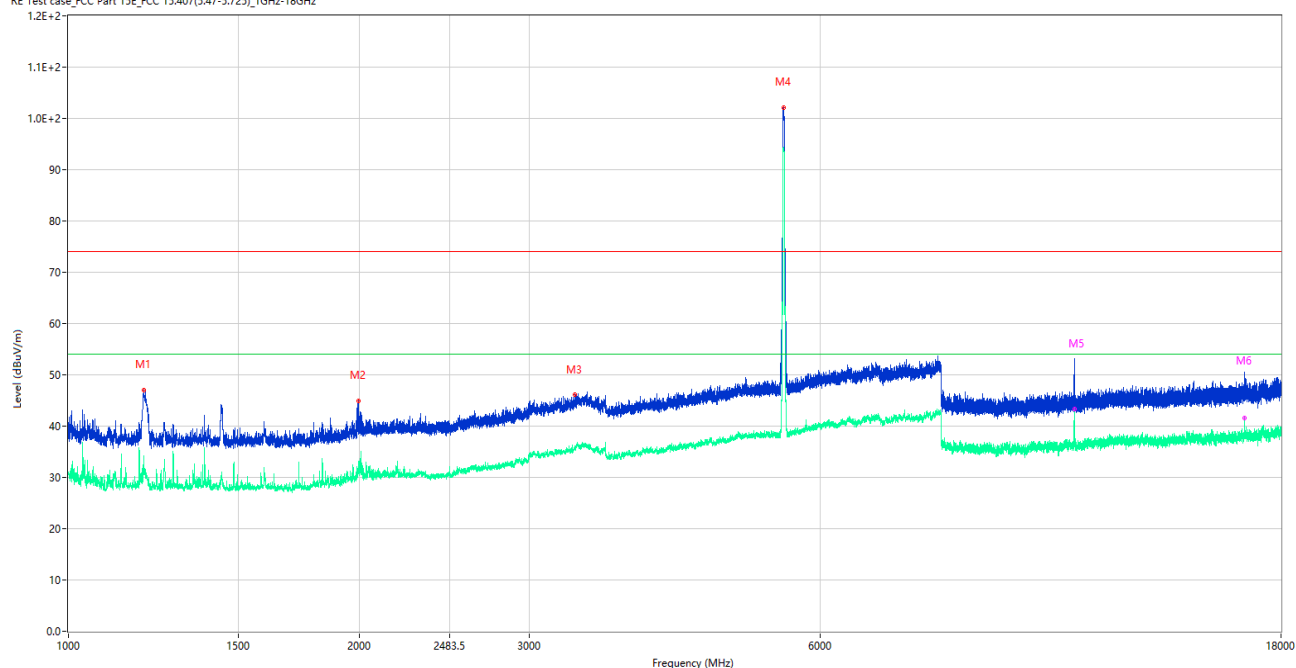
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.500	47.54	-15.72	74.0	26.46	Peak	42.00	150	Vertical	Pass
1**	1197.500	31.15	-15.72	54.0	22.85	AV	42.00	150	Vertical	Pass
2	1993.000	48.67	-14.65	74.0	25.33	Peak	299.00	150	Vertical	Pass
2**	1993.000	31.84	-14.65	54.0	22.16	AV	299.00	150	Vertical	Pass
3	3195.500	47.74	-7.77	74.0	26.26	Peak	109.00	150	Vertical	Pass
3**	3195.500	36.10	-7.77	54.0	17.90	AV	109.00	150	Vertical	Pass
4	5576.000	105.68	-2.94	74.0	-31.68	Peak	237.00	150	Vertical	N/A
4**	5576.000	97.53	-2.94	54.0	-43.53	AV	237.00	150	Vertical	N/A
5	11155.900	49.68	-4.04	74.0	24.32	Peak	217.00	150	Vertical	Pass
5**	11155.900	45.99	-4.04	54.0	8.01	AV	217.00	150	Vertical	Pass
6	17292.825	48.84	-0.89	74.0	25.16	Peak	185.00	150	Vertical	Pass
6**	17292.825	38.72	-0.89	54.0	15.28	AV	185.00	150	Vertical	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

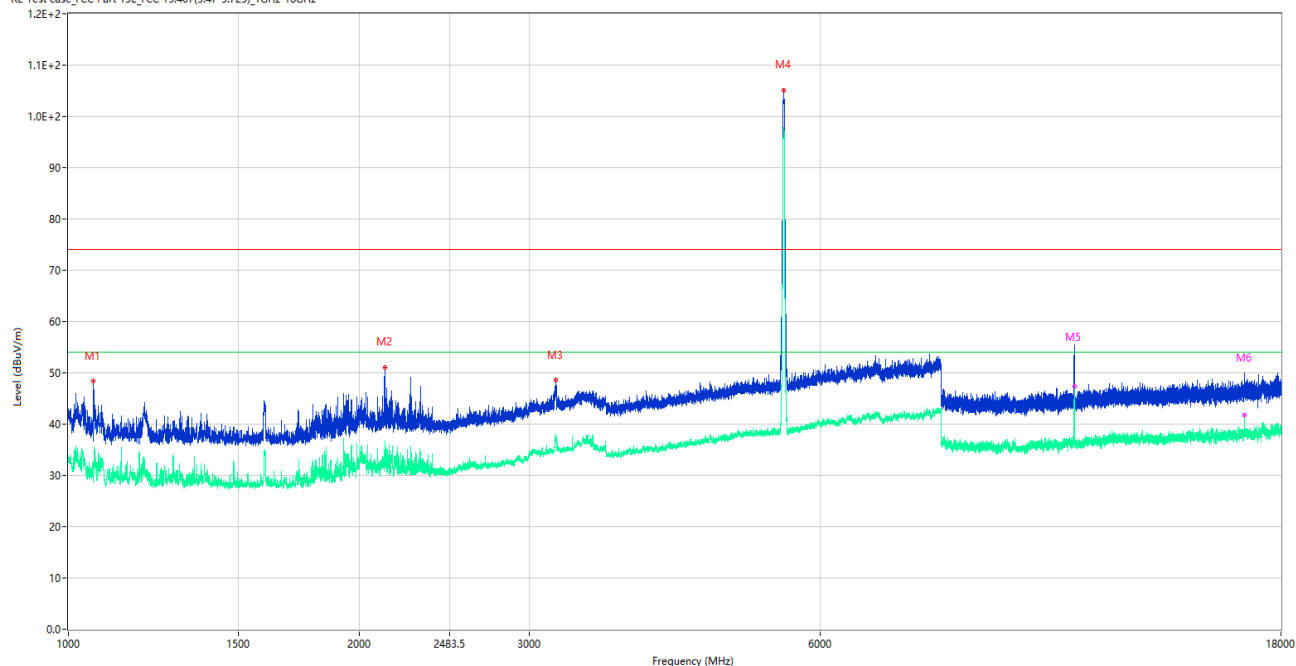
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.750	47.08	-15.71	74.0	26.92	Peak	150.00	150	Horizontal	Pass
1**	1196.750	32.92	-15.71	54.0	21.08	AV	150.00	150	Horizontal	Pass
2	1994.750	44.92	-14.56	74.0	29.08	Peak	145.00	150	Horizontal	Pass
2**	1994.750	33.02	-14.56	54.0	20.98	AV	145.00	150	Horizontal	Pass
3	3345.500	46.16	-6.16	74.0	27.84	Peak	0.00	150	Horizontal	Pass
3**	3345.500	36.06	-6.16	54.0	17.94	AV	0.00	150	Horizontal	Pass
4	5498.500	102.18	-2.51	74.0	-28.18	Peak	278.00	150	Horizontal	N/A
4**	5498.500	94.19	-2.51	54.0	-40.19	AV	278.00	150	Horizontal	N/A
5	10999.625	49.05	-2.69	74.0	24.95	Peak	193.00	150	Horizontal	Pass
5**	10999.625	43.25	-2.69	54.0	10.75	AV	193.00	150	Horizontal	Pass
6	16505.062	46.89	-1.61	74.0	27.11	Peak	249.00	150	Horizontal	Pass
6**	16505.062	41.60	-1.61	54.0	12.40	AV	249.00	150	Horizontal	Pass

11n20, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

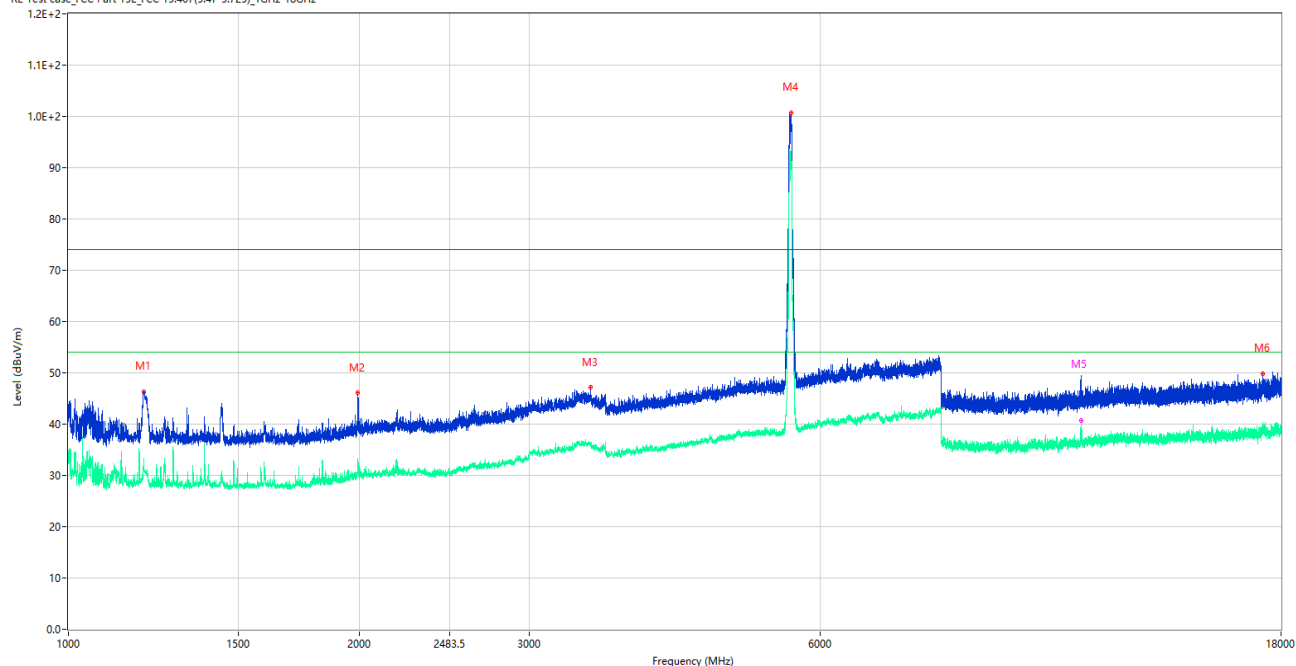
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.000	48.39	-15.26	74.0	25.61	Peak	77.00	150	Vertical	Pass
1**	1062.000	29.74	-15.26	54.0	24.26	AV	77.00	150	Vertical	Pass
2	2128.000	51.05	-13.25	74.0	22.95	Peak	87.00	150	Vertical	Pass
2**	2128.000	33.07	-13.25	54.0	20.93	AV	87.00	150	Vertical	Pass
3	3197.500	48.52	-7.78	74.0	25.48	Peak	100.00	150	Vertical	Pass
3**	3197.500	37.27	-7.78	54.0	16.73	AV	100.00	150	Vertical	Pass
4	5501.500	105.11	-2.55	74.0	-31.11	Peak	236.00	150	Vertical	N/A
4**	5501.500	97.31	-2.55	54.0	-43.31	AV	236.00	150	Vertical	N/A
5	10999.862	52.82	-2.70	74.0	21.18	Peak	216.00	150	Vertical	Pass
5**	10999.862	47.30	-2.70	54.0	6.70	AV	216.00	150	Vertical	Pass
6	16502.438	47.39	-1.92	74.0	26.61	Peak	360.00	150	Vertical	Pass
6**	16502.438	41.68	-1.92	54.0	12.32	AV	360.00	150	Vertical	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

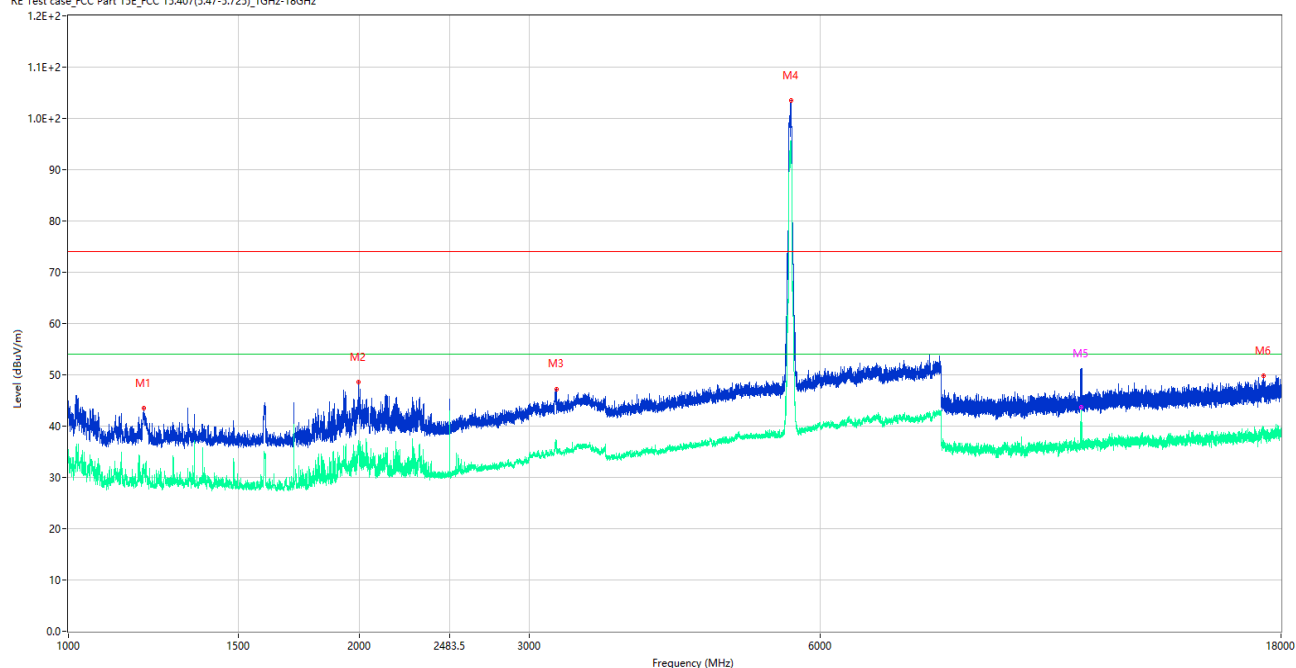
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.750	46.40	-15.71	74.0	27.60	Peak	277.00	150	Horizontal	Pass
1**	1196.750	32.52	-15.71	54.0	21.48	AV	277.00	150	Horizontal	Pass
2	1991.500	46.10	-14.69	74.0	27.90	Peak	215.00	150	Horizontal	Pass
2**	1991.500	31.17	-14.69	54.0	22.83	AV	215.00	150	Horizontal	Pass
3	3472.500	47.11	-5.80	74.0	26.89	Peak	31.00	150	Horizontal	Pass
3**	3472.500	36.05	-5.80	54.0	17.95	AV	31.00	150	Horizontal	Pass
4	5600.000	100.75	-2.75	74.0	-26.75	Peak	221.00	150	Horizontal	N/A
4**	5600.000	92.75	-2.75	54.0	-38.75	AV	221.00	150	Horizontal	N/A
5	11181.312	45.97	-4.15	74.0	28.03	Peak	213.00	150	Horizontal	Pass
5**	11181.312	40.63	-4.15	54.0	13.37	AV	213.00	150	Horizontal	Pass
6	17245.837	49.89	-0.69	74.0	24.11	Peak	0.00	150	Horizontal	Pass
6**	17245.837	39.11	-0.69	54.0	14.89	AV	0.00	150	Horizontal	Pass

11n40, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

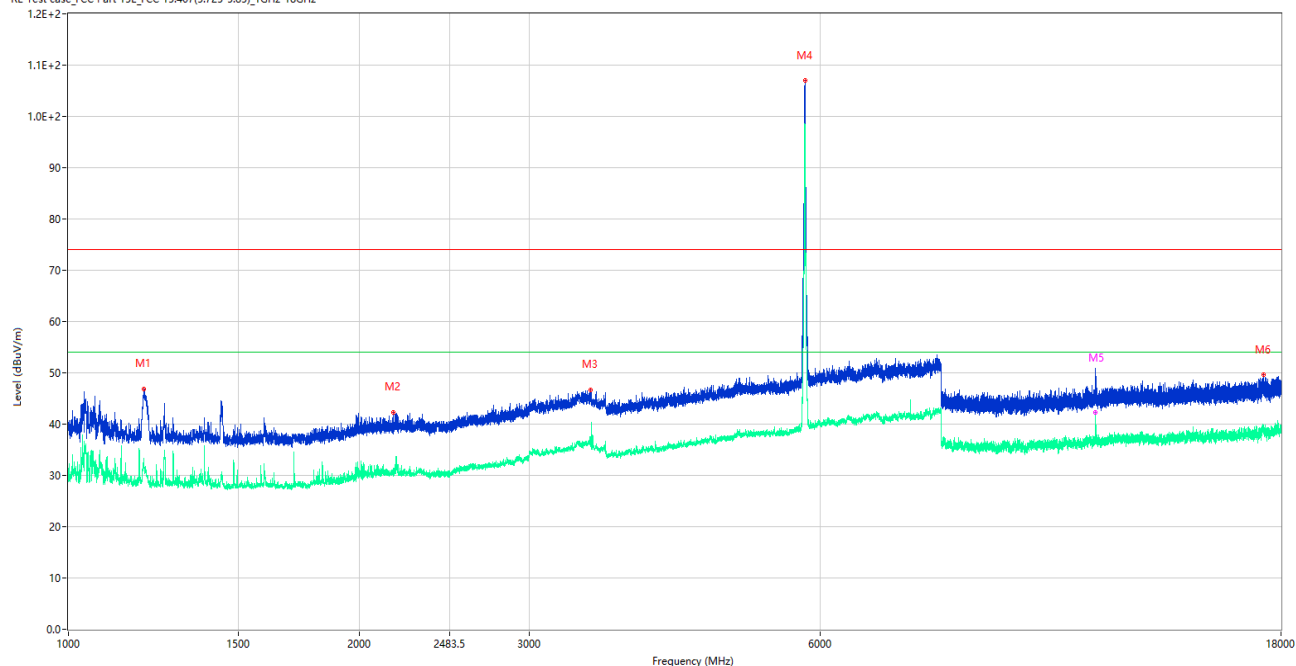
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.000	43.45	-15.71	74.0	30.55	Peak	352.00	150	Vertical	Pass
1**	1197.000	31.24	-15.71	54.0	22.76	AV	352.00	150	Vertical	Pass
2	1996.000	48.54	-14.51	74.0	25.46	Peak	106.00	150	Vertical	Pass
2**	1996.000	36.52	-14.51	54.0	17.48	AV	106.00	150	Vertical	Pass
3	3199.000	47.14	-7.74	74.0	26.86	Peak	92.00	150	Vertical	Pass
3**	3199.000	36.15	-7.74	54.0	17.85	AV	92.00	150	Vertical	Pass
4	5594.500	103.45	-2.82	74.0	-29.45	Peak	229.00	150	Vertical	N/A
4**	5594.500	95.61	-2.82	54.0	-41.61	AV	229.00	150	Vertical	N/A
5	11178.937	50.31	-4.18	74.0	23.69	Peak	217.00	150	Vertical	Pass
5**	11178.937	43.63	-4.18	54.0	10.37	AV	217.00	150	Vertical	Pass
6	17253.188	49.78	-0.81	74.0	24.22	Peak	41.00	150	Vertical	Pass
6**	17253.188	39.03	-0.81	54.0	14.97	AV	41.00	150	Vertical	Pass

11a, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

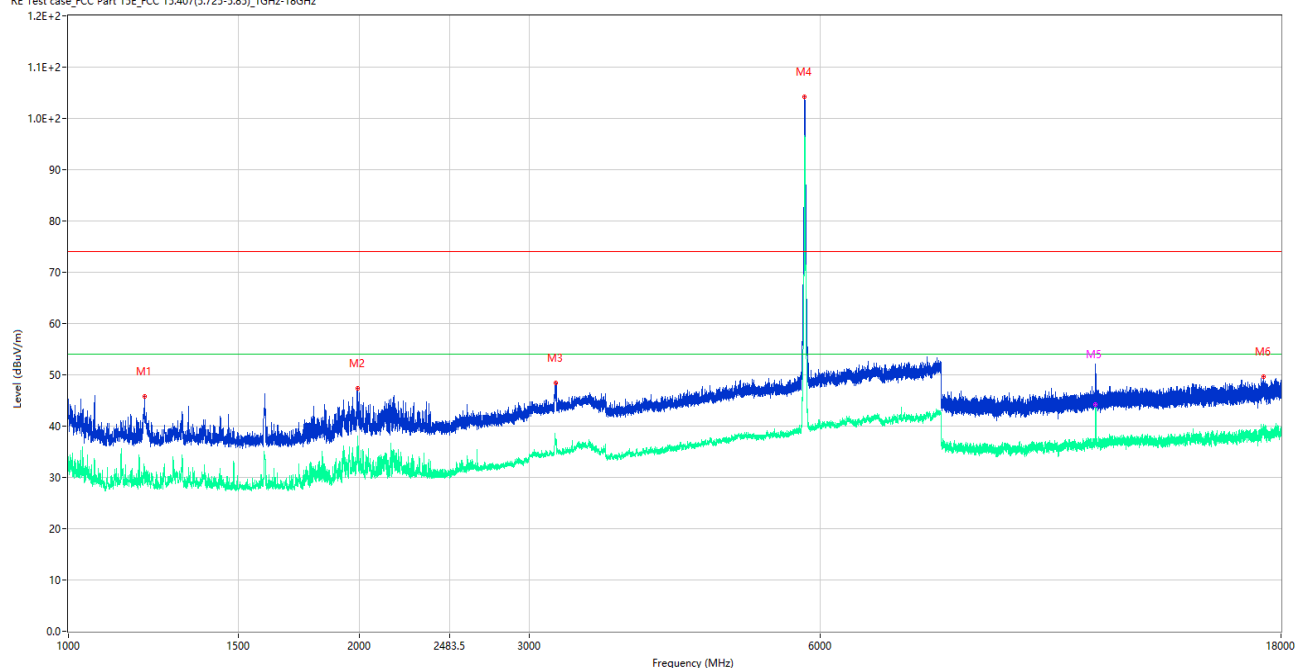
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.750	46.91	-15.71	74.0	27.09	Peak	282.00	150	Horizontal	Pass
1**	1196.750	32.26	-15.71	54.0	21.74	AV	282.00	150	Horizontal	Pass
2	2169.750	42.32	-13.04	74.0	31.68	Peak	47.00	150	Horizontal	Pass
2**	2169.750	30.32	-13.04	54.0	23.68	AV	47.00	150	Horizontal	Pass
3	3470.500	46.64	-5.60	74.0	27.36	Peak	276.00	150	Horizontal	Pass
3**	3470.500	37.17	-5.60	54.0	16.83	AV	276.00	150	Horizontal	Pass
4	5786.500	107.01	-1.53	74.0	-33.01	Peak	237.00	150	Horizontal	N/A
4**	5786.500	97.89	-1.53	54.0	-43.89	AV	237.00	150	Horizontal	N/A
5	11569.388	47.87	-2.30	74.0	26.13	Peak	240.00	150	Horizontal	Pass
5**	11569.388	42.34	-2.30	54.0	11.66	AV	240.00	150	Horizontal	Pass
6	17251.613	49.57	-0.65	74.0	24.43	Peak	360.00	150	Horizontal	Pass
6**	17251.613	39.76	-0.65	54.0	14.24	AV	360.00	150	Horizontal	Pass

11a, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

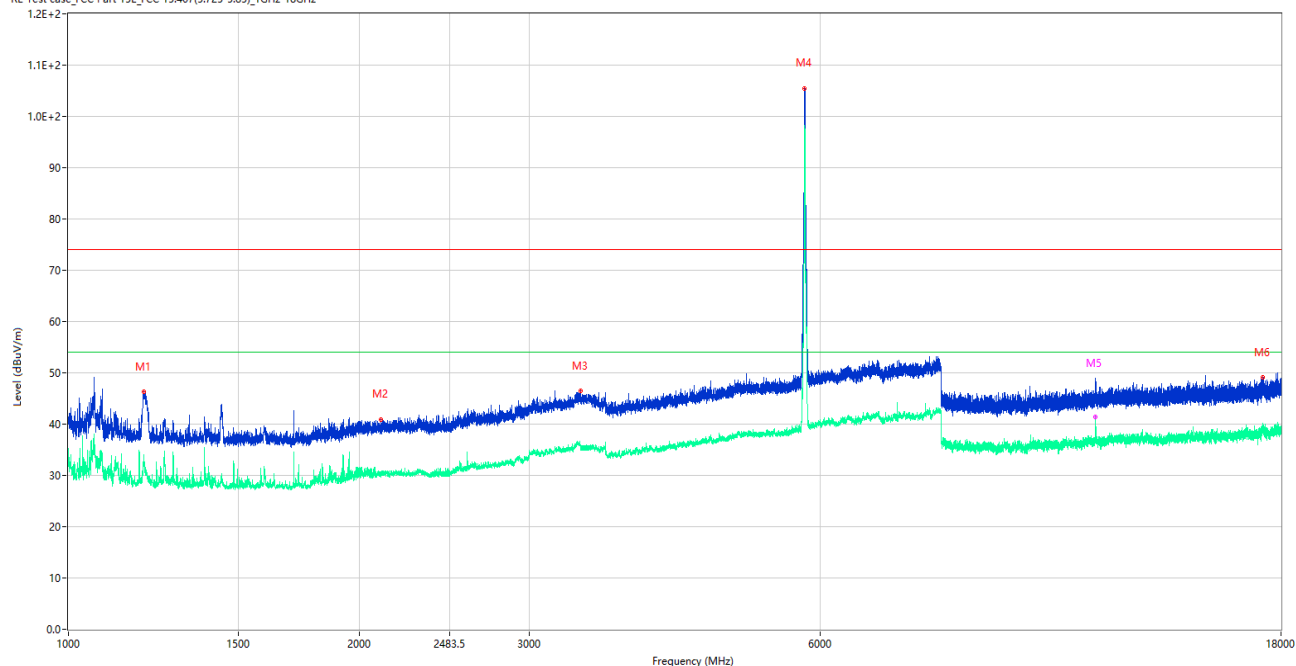
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.000	45.75	-15.75	74.0	28.25	Peak	76.00	150	Vertical	Pass
1**	1199.000	29.62	-15.75	54.0	24.38	AV	76.00	150	Vertical	Pass
2	1992.750	47.31	-14.66	74.0	26.69	Peak	100.00	150	Vertical	Pass
2**	1992.750	36.49	-14.66	54.0	17.51	AV	100.00	150	Vertical	Pass
3	3196.500	48.39	-7.79	74.0	25.61	Peak	109.00	150	Vertical	Pass
3**	3196.500	36.76	-7.79	54.0	17.24	AV	109.00	150	Vertical	Pass
4	5785.000	104.19	-1.54	74.0	-30.19	Peak	0.00	150	Vertical	N/A
4**	5785.000	95.68	-1.54	54.0	-41.68	AV	0.00	150	Vertical	N/A
5	11568.675	50.98	-2.35	74.0	23.02	Peak	217.00	150	Vertical	Pass
5**	11568.675	44.28	-2.35	54.0	9.72	AV	217.00	150	Vertical	Pass
6	17253.712	49.59	-0.87	74.0	24.41	Peak	114.00	150	Vertical	Pass
6**	17253.712	38.86	-0.87	54.0	15.14	AV	114.00	150	Vertical	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

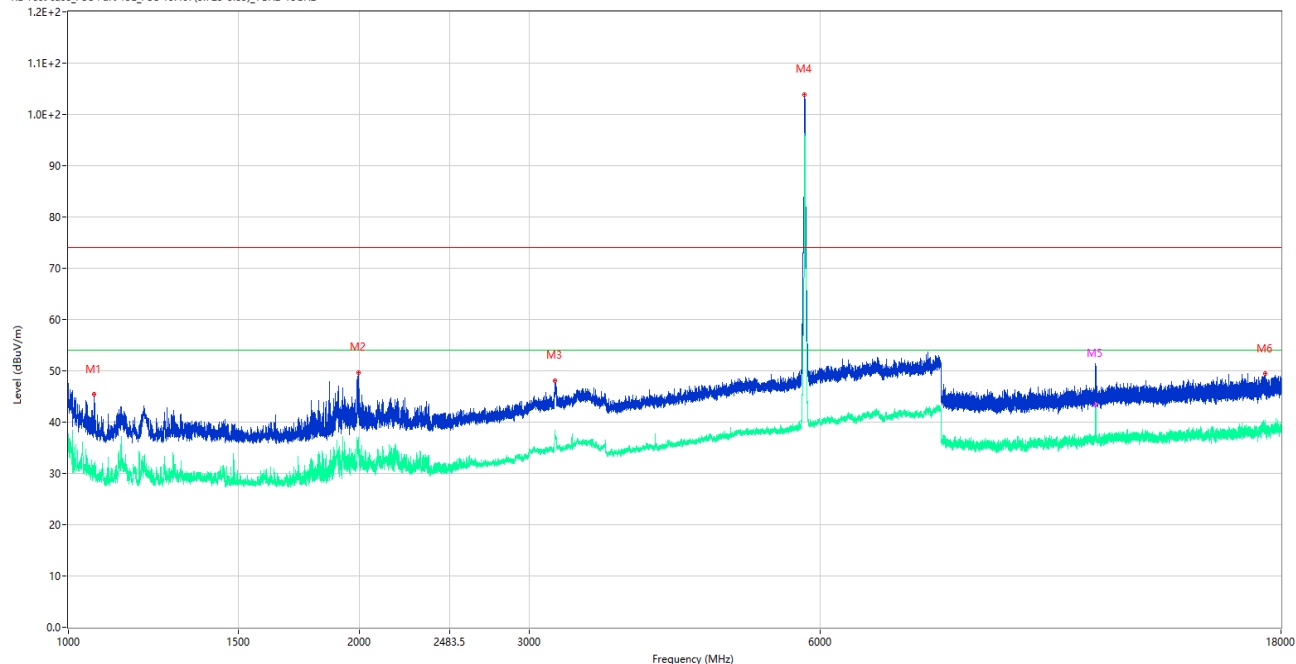
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.500	46.26	-15.71	74.0	27.74	Peak	135.00	150	Horizontal	Pass
1**	1196.500	33.29	-15.71	54.0	20.71	AV	135.00	150	Horizontal	Pass
2	2108.000	40.92	-13.60	74.0	33.08	Peak	199.00	150	Horizontal	Pass
2**	2108.000	29.96	-13.60	54.0	24.04	AV	199.00	150	Horizontal	Pass
3	3388.000	46.41	-5.62	74.0	27.59	Peak	0.00	150	Horizontal	Pass
3**	3388.000	35.75	-5.62	54.0	18.25	AV	0.00	150	Horizontal	Pass
4	5782.000	105.51	-1.54	74.0	-31.51	Peak	261.00	150	Horizontal	N/A
4**	5782.000	98.14	-1.54	54.0	-44.14	AV	261.00	150	Horizontal	N/A
5	11569.625	47.66	-2.29	74.0	26.34	Peak	216.00	150	Horizontal	Pass
5**	11569.625	41.36	-2.29	54.0	12.64	AV	216.00	150	Horizontal	Pass
6	17230.612	49.18	-0.38	74.0	24.82	Peak	115.00	150	Horizontal	Pass
6**	17230.612	38.91	-0.38	54.0	15.09	AV	115.00	150	Horizontal	Pass

11n20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

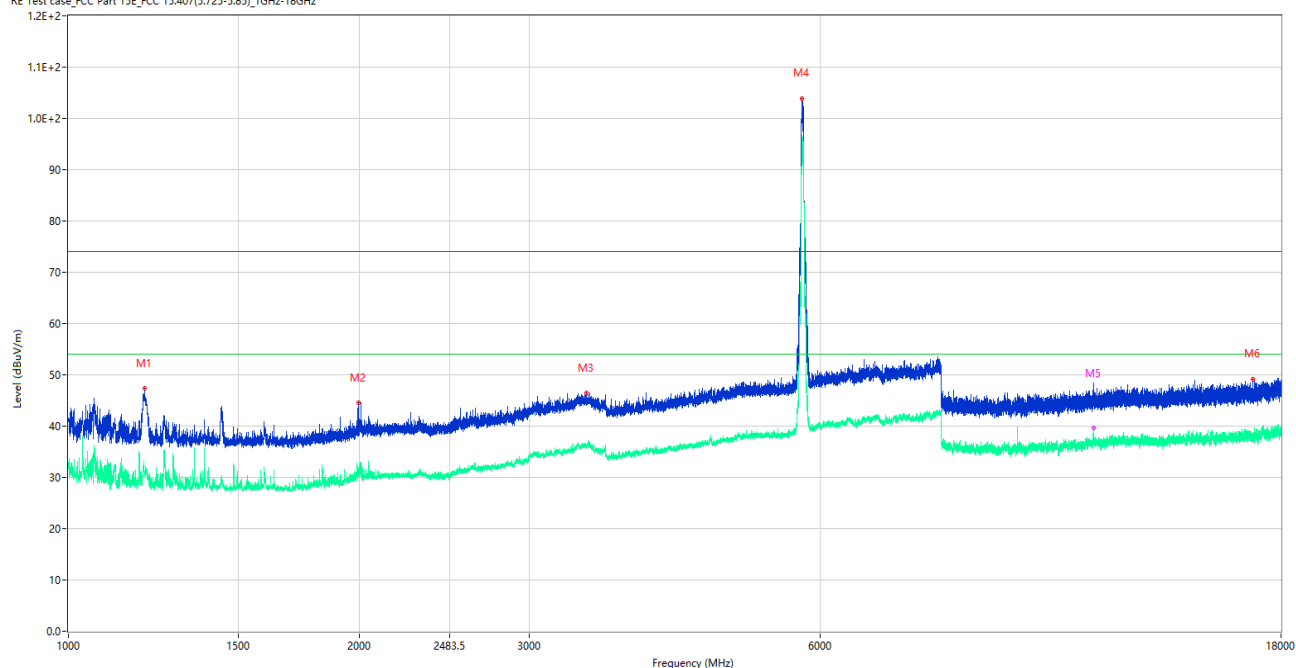
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.000	45.37	-15.22	74.0	28.63	Peak	130.00	150	Vertical	Pass
1**	1064.000	30.74	-15.22	54.0	23.26	AV	130.00	150	Vertical	Pass
2	1995.500	49.67	-14.53	74.0	24.33	Peak	130.00	150	Vertical	Pass
2**	1995.500	35.80	-14.53	54.0	18.20	AV	130.00	150	Vertical	Pass
3	3192.000	48.15	-7.69	74.0	25.85	Peak	100.00	150	Vertical	Pass
3**	3192.000	36.47	-7.69	54.0	17.53	AV	100.00	150	Vertical	Pass
4	5781.000	103.87	-1.51	74.0	-29.87	Peak	217.00	150	Vertical	N/A
4**	5781.000	96.26	-1.51	54.0	-42.26	AV	217.00	150	Vertical	N/A
5	11562.974	49.04	-2.32	74.0	24.96	Peak	216.00	150	Vertical	Pass
5**	11562.974	43.40	-2.32	54.0	10.60	AV	216.00	150	Vertical	Pass
6	17339.288	49.45	0.16	74.0	24.55	Peak	284.00	150	Vertical	Pass
6**	17339.288	38.84	0.16	54.0	15.16	AV	284.00	150	Vertical	Pass

11n40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

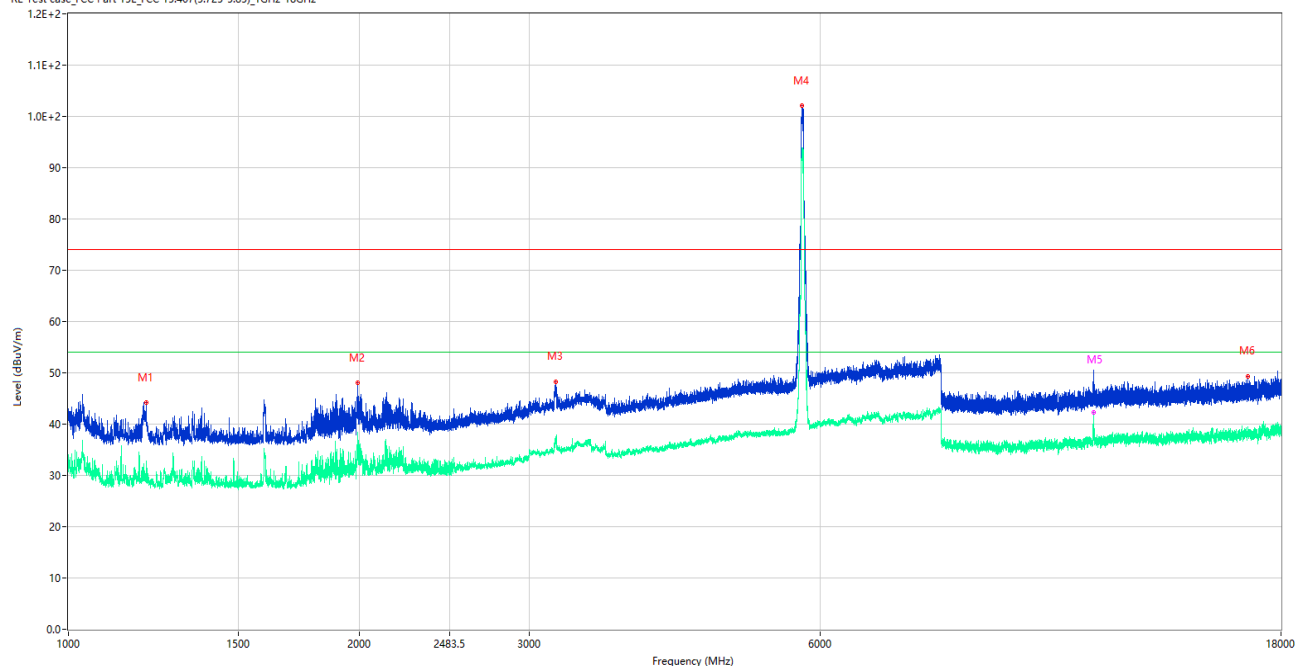
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1198.500	47.31	-15.75	74.0	26.69	Peak	283.00	150	Horizontal	Pass
1**	1198.500	30.47	-15.75	54.0	23.53	AV	283.00	150	Horizontal	Pass
2	1995.000	44.48	-14.54	74.0	29.52	Peak	38.00	150	Horizontal	Pass
2**	1995.000	31.42	-14.54	54.0	22.58	AV	38.00	150	Horizontal	Pass
3	3435.000	46.41	-5.19	74.0	27.59	Peak	338.00	150	Horizontal	Pass
3**	3435.000	36.06	-5.19	54.0	17.94	AV	338.00	150	Horizontal	Pass
4	5750.000	103.93	-2.12	74.0	-29.93	Peak	268.00	150	Horizontal	N/A
4**	5750.000	96.74	-2.12	54.0	-42.74	AV	268.00	150	Horizontal	N/A
5	11519.750	45.20	-2.75	74.0	28.80	Peak	286.00	150	Horizontal	Pass
5**	11519.750	39.68	-2.75	54.0	14.32	AV	286.00	150	Horizontal	Pass
6	16820.324	49.15	-1.19	74.0	24.85	Peak	284.00	150	Horizontal	Pass
6**	16820.324	37.93	-1.19	54.0	16.07	AV	284.00	150	Horizontal	Pass

11n40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1203.250	44.16	-15.76	74.0	29.84	Peak	122.00	150	Vertical	Pass
1**	1203.250	32.76	-15.76	54.0	21.24	AV	122.00	150	Vertical	Pass
2	1991.250	48.04	-14.70	74.0	25.96	Peak	108.00	150	Vertical	Pass
2**	1991.250	35.84	-14.70	54.0	18.16	AV	108.00	150	Vertical	Pass
3	3193.500	48.27	-7.69	74.0	25.73	Peak	100.00	150	Vertical	Pass
3**	3193.500	36.35	-7.69	54.0	17.65	AV	100.00	150	Vertical	Pass
4	5750.500	102.03	-2.11	74.0	-28.03	Peak	0.00	150	Vertical	N/A
4**	5750.500	93.55	-2.11	54.0	-39.55	AV	0.00	150	Vertical	N/A
5	11512.388	46.23	-2.91	74.0	27.77	Peak	236.00	150	Vertical	Pass
5**	11512.388	42.32	-2.91	54.0	11.68	AV	236.00	150	Vertical	Pass
6	16639.725	49.34	-0.95	74.0	24.66	Peak	285.00	150	Vertical	Pass
6**	16639.725	39.13	-0.95	54.0	14.87	AV	285.00	150	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
U-NII-2A	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
U-NII-2C	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
U-NII-3	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass

Test Data and Plots

U-NII-1 11a CH36



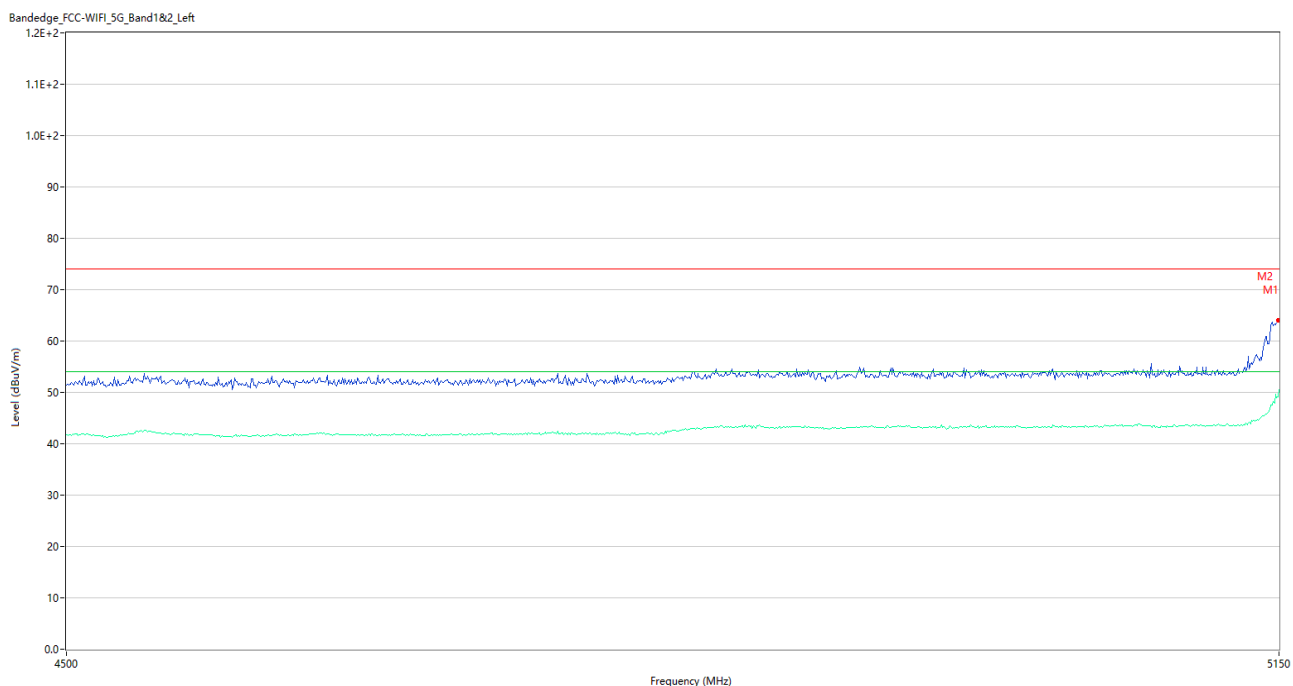
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	63.29	3.82	74.0	10.71	Peak	174.00	150	Horizontal	Pass
1**	5150.000	49.64	3.82	54.0	4.36	AV	174.00	150	Horizontal	Pass
2	4804.850	52.61	3.14	74.0	21.39	Peak	266.00	150	Horizontal	Pass
2**	4804.850	48.94	3.14	54.0	5.06	AV	266.00	150	Horizontal	Pass

U-NII-1 11a CH48



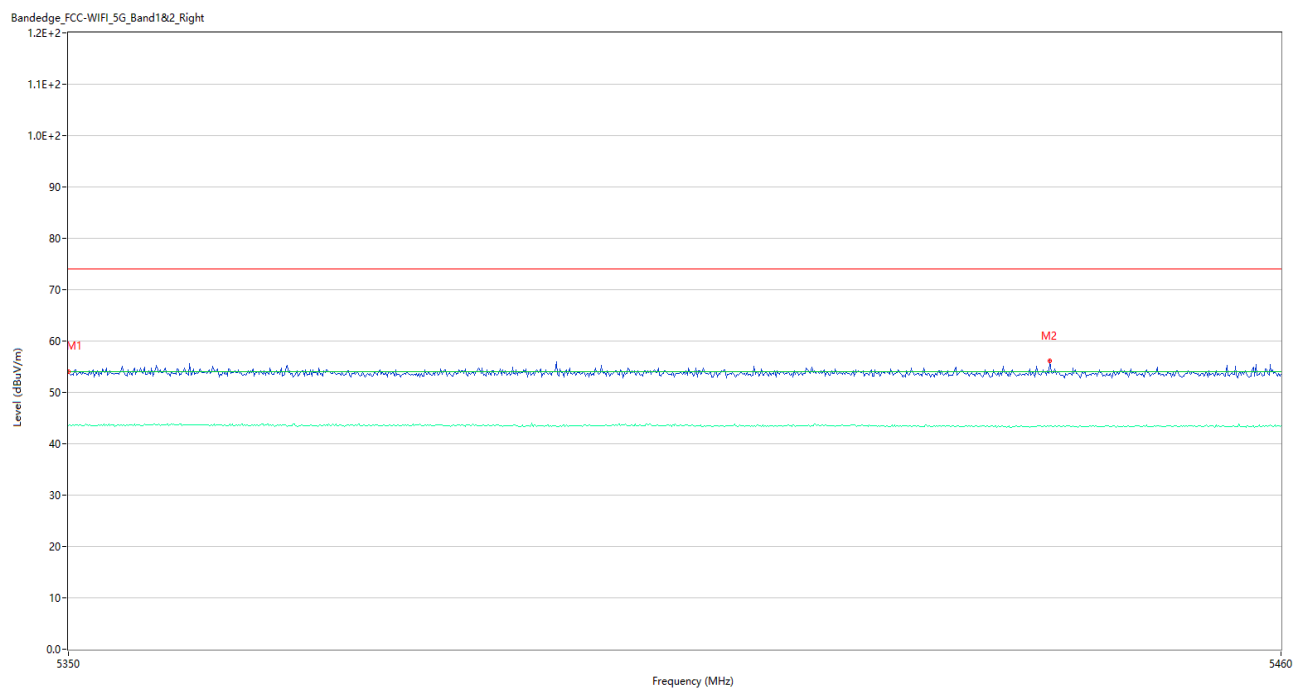
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.04	4.04	74.0	19.96	Peak	41.00	150	Horizontal	Pass
1**	5350.000	43.57	4.04	54.0	10.43	AV	41.00	150	Horizontal	Pass
2	5416.660	55.56	3.74	74.0	18.44	Peak	32.00	150	Horizontal	Pass
2**	5416.660	43.48	3.74	54.0	10.52	AV	32.00	150	Horizontal	Pass

U-NII-1 11n20 CH36



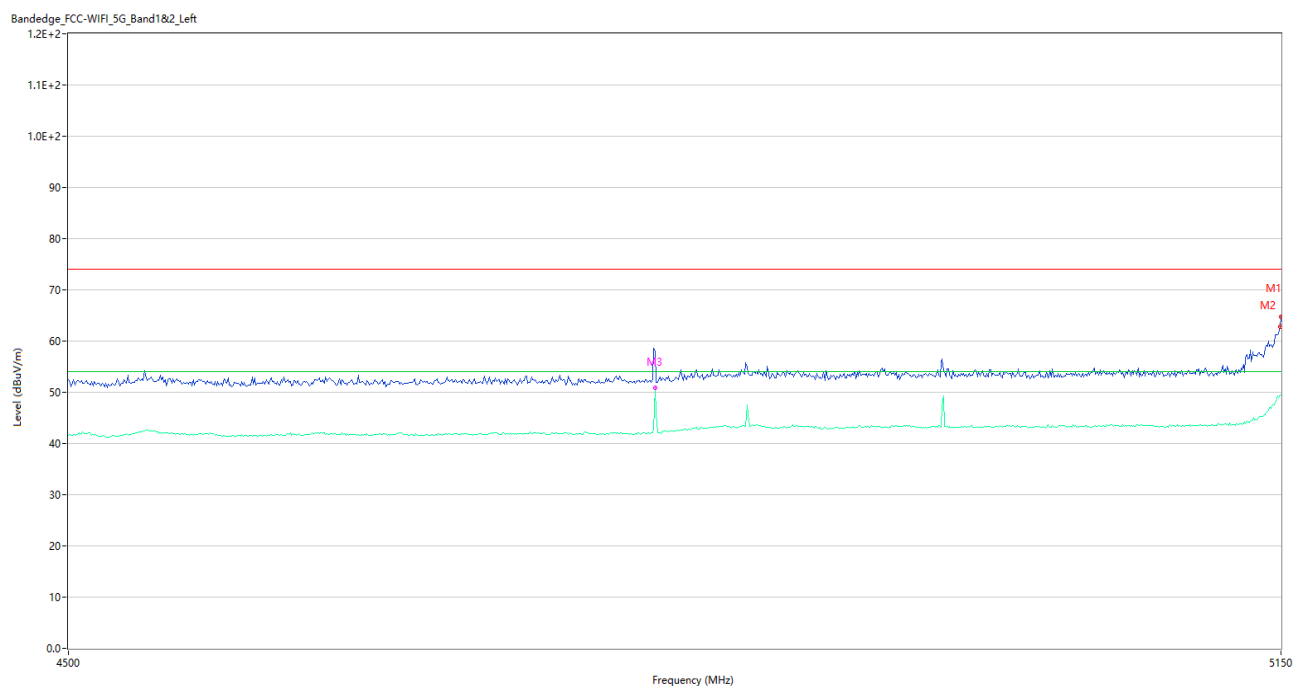
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	64.08	3.82	74.0	9.92	Peak	0.00	150	Vertical	Pass
1**	5150.000	50.54	3.82	54.0	3.46	AV	0.00	150	Vertical	Pass
2	5149.350	64.10	3.84	74.0	9.90	Peak	0.00	150	Vertical	Pass
2**	5149.350	49.05	3.84	54.0	4.95	AV	0.00	150	Vertical	Pass

U-NII-1 11n20 CH48



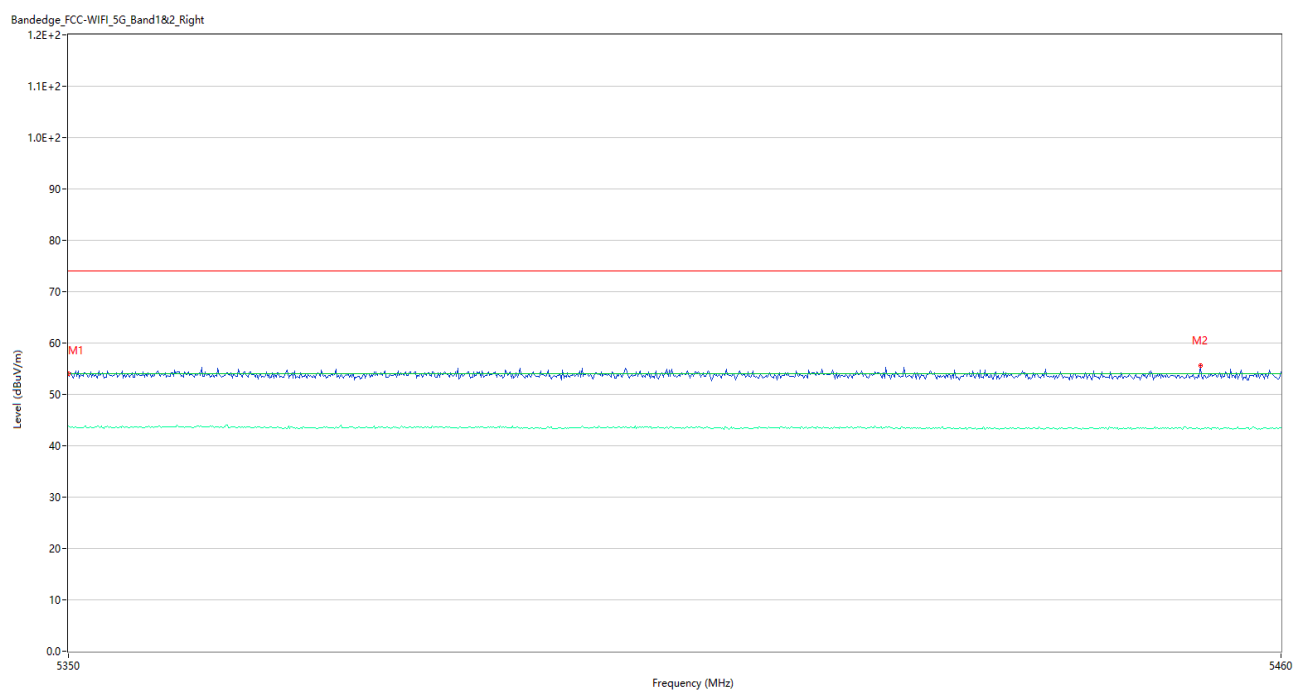
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.06	4.04	74.0	19.94	Peak	215.00	150	Vertical	Pass
1**	5350.000	43.55	4.04	54.0	10.45	AV	215.00	150	Vertical	Pass
2	5438.880	56.12	3.73	74.0	17.88	Peak	99.00	150	Vertical	Pass
2**	5438.880	43.57	3.73	54.0	10.43	AV	99.00	150	Vertical	Pass

U-NII-1 11n40 CH38



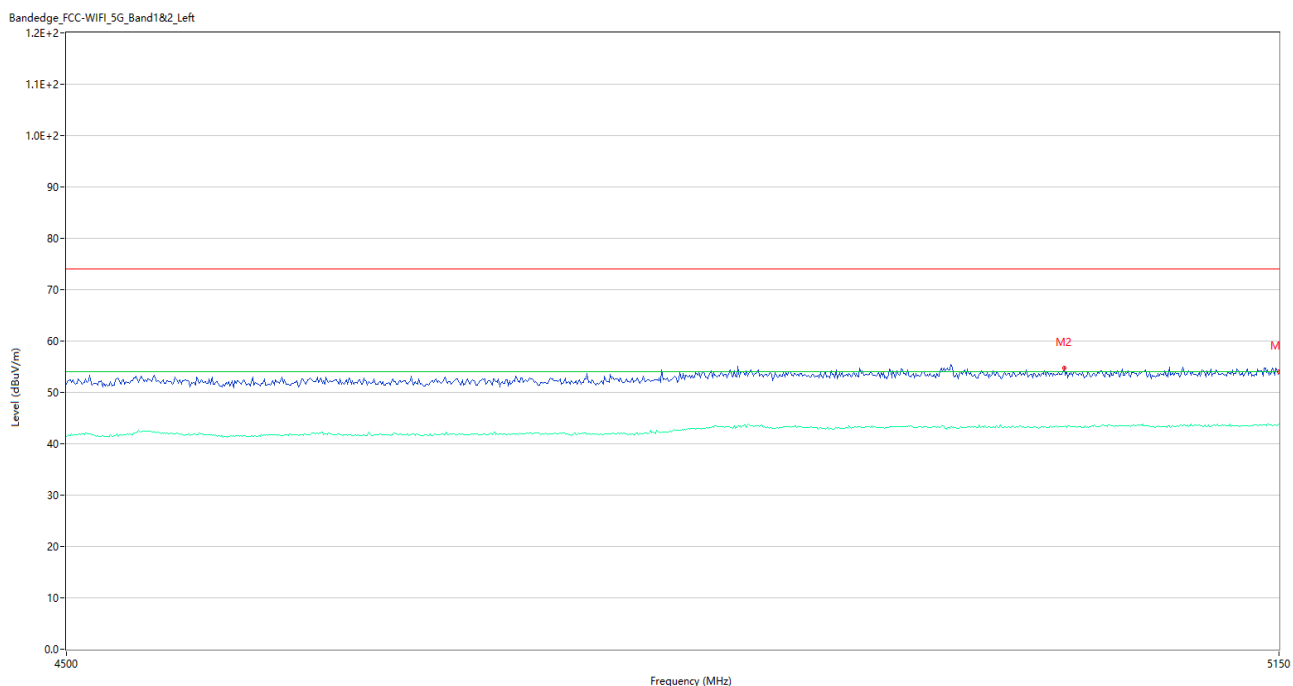
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	64.70	3.82	74.0	9.30	Peak	354.00	150	Vertical	Pass
1**	5150.000	49.39	3.82	54.0	4.61	AV	354.00	150	Vertical	Pass
2	5149.350	62.83	3.84	74.0	11.17	Peak	359.00	150	Vertical	Pass
2**	5149.350	49.52	3.84	54.0	4.48	AV	359.00	150	Vertical	Pass
3	4803.550	58.03	3.08	74.0	15.97	Peak	126.00	150	Vertical	Pass
3**	4803.550	50.94	3.08	54.0	3.06	AV	126.00	150	Vertical	Pass

U-NII-1 11n40 CH46



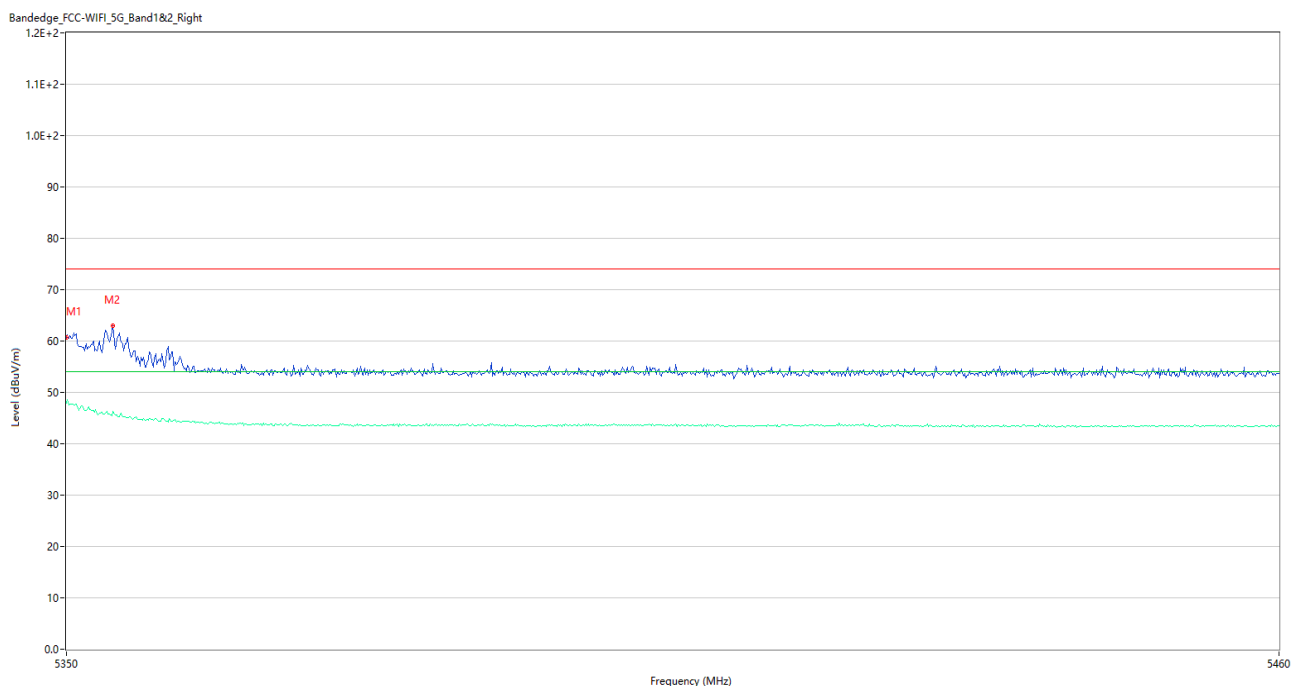
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	53.98	4.04	74.0	20.02	Peak	223.00	150	Vertical	Pass
1**	5350.000	43.79	4.04	54.0	10.21	AV	223.00	150	Vertical	Pass
2	5452.630	55.53	3.87	74.0	18.47	Peak	0.00	150	Vertical	Pass
2**	5452.630	43.23	3.87	54.0	10.77	AV	0.00	150	Vertical	Pass

U-NII-2A 11a CH52



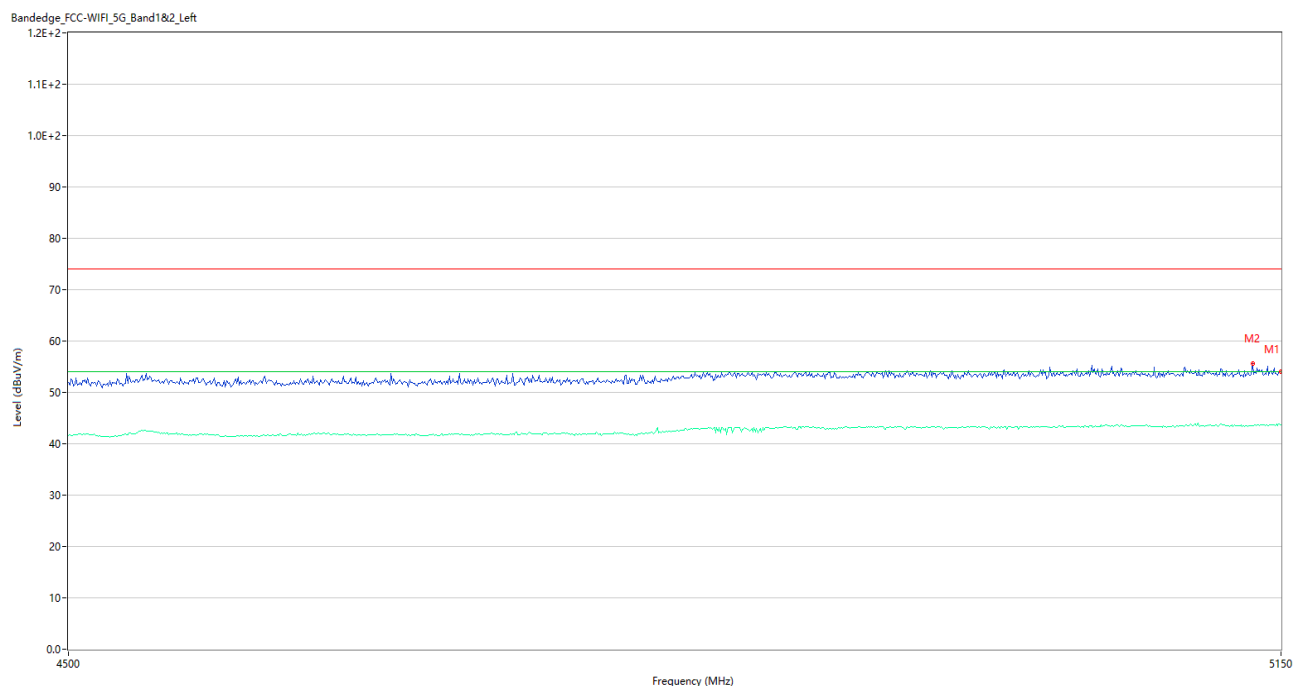
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	53.92	3.82	74.0	20.08	Peak	23.06	150	Horizontal	Pass
1**	5150.000	43.83	3.82	54.0	10.17	AV	23.06	150	Horizontal	Pass
2	5028.450	54.76	3.62	74.0	19.24	Peak	180.00	150	Horizontal	Pass
2**	5028.450	43.25	3.62	54.0	10.75	AV	180.00	150	Horizontal	Pass

U-NII-2A 11a CH64



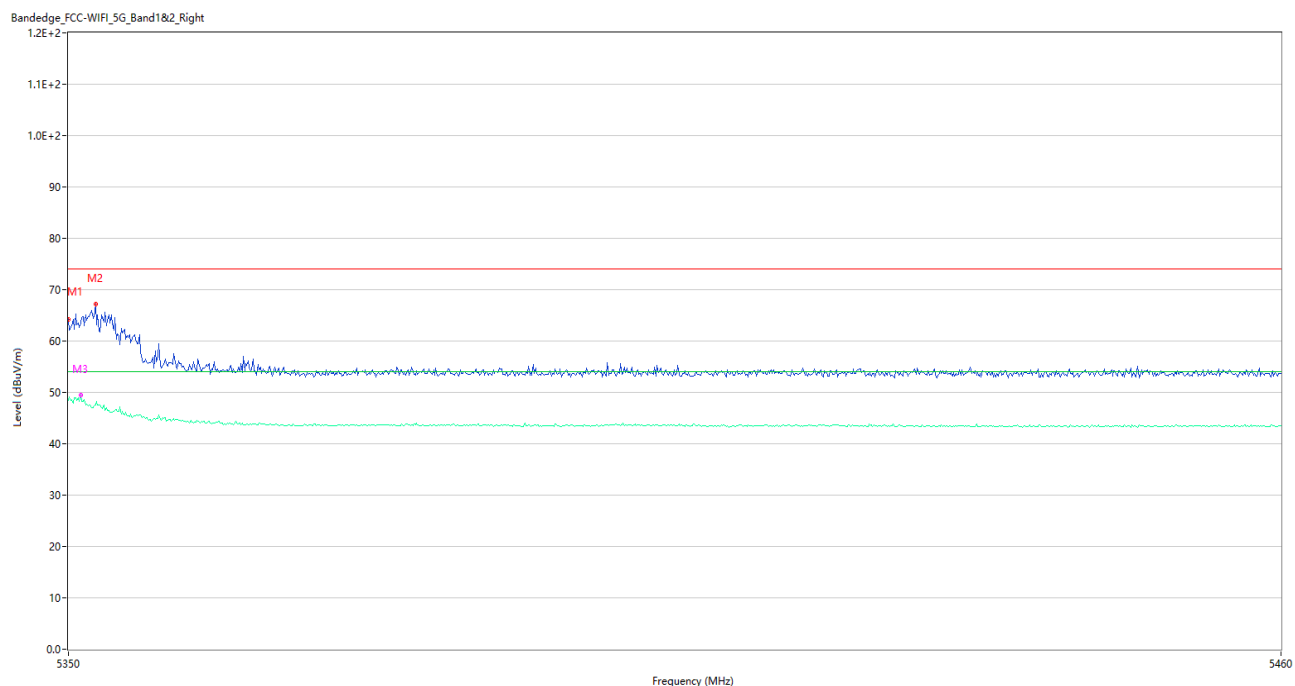
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	60.71	4.04	74.0	13.29	Peak	148.00	150	Vertical	Pass
1**	5350.000	47.95	4.04	54.0	6.05	AV	148.00	150	Vertical	Pass
2	5354.180	62.99	4.12	74.0	11.01	Peak	347.00	150	Vertical	Pass
2**	5354.180	46.23	4.12	54.0	7.77	AV	347.00	150	Vertical	Pass

U-NII-2A 11n20 CH52



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.07	3.82	74.0	19.93	Peak	233.97	150	Horizontal	Pass
1**	5150.000	43.66	3.82	54.0	10.34	AV	233.97	150	Horizontal	Pass
2	5133.750	55.61	3.94	74.0	18.39	Peak	316.00	150	Horizontal	Pass
2**	5133.750	43.58	3.94	54.0	10.42	AV	316.00	150	Horizontal	Pass

U-NII-2A 11n20 CH64



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	64.23	4.04	74.0	9.77	Peak	355.00	150	Vertical	Pass
1**	5350.000	48.47	4.04	54.0	5.53	AV	355.00	150	Vertical	Pass
2	5352.420	67.20	4.09	74.0	6.80	Peak	147.00	150	Vertical	Pass
2**	5352.420	47.58	4.09	54.0	6.42	AV	147.00	150	Vertical	Pass
3	5351.100	63.42	4.06	74.0	10.58	Peak	357.00	150	Vertical	Pass
3**	5351.100	49.52	4.06	54.0	4.48	AV	357.00	150	Vertical	Pass

U-NII-2A 11n40 CH54



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	53.27	3.82	74.0	20.73	Peak	19.00	150	Vertical	Pass
1**	5150.000	43.67	3.82	54.0	10.33	AV	19.00	150	Vertical	Pass
2	4984.250	54.70	3.50	74.0	19.30	Peak	78.00	150	Vertical	Pass
2**	4984.250	43.26	3.50	54.0	10.74	AV	78.00	150	Vertical	Pass

U-NII-2A 11n40 CH62



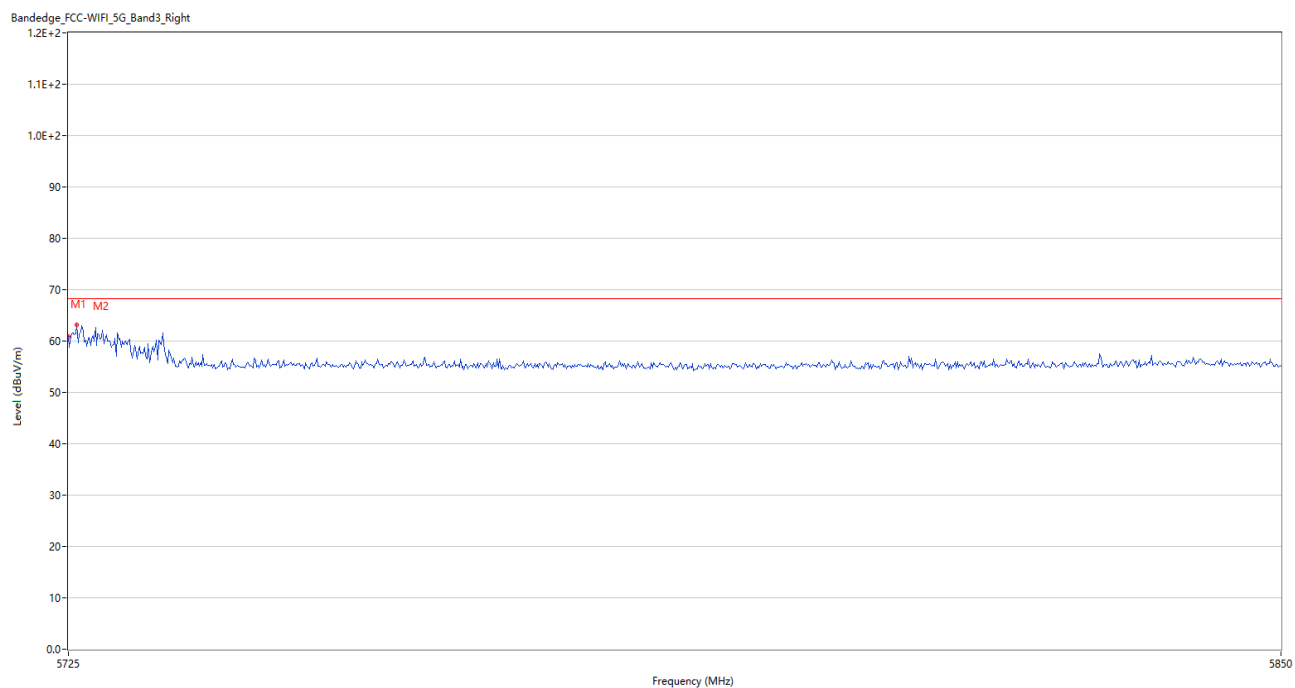
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	60.32	4.04	74.0	13.68	Peak	342.00	150	Vertical	Pass
1**	5350.000	48.18	4.04	54.0	5.82	AV	342.00	150	Vertical	Pass
2	5351.760	59.84	4.08	74.0	14.16	Peak	144.00	150	Vertical	Pass
2**	5351.760	47.54	4.08	54.0	6.46	AV	144.00	150	Vertical	Pass
3	5350.550	60.02	4.05	74.0	13.98	Peak	357.00	150	Vertical	Pass
3**	5350.550	48.33	4.05	54.0	5.67	AV	357.00	150	Vertical	Pass

U-NII-2C 11a CH100



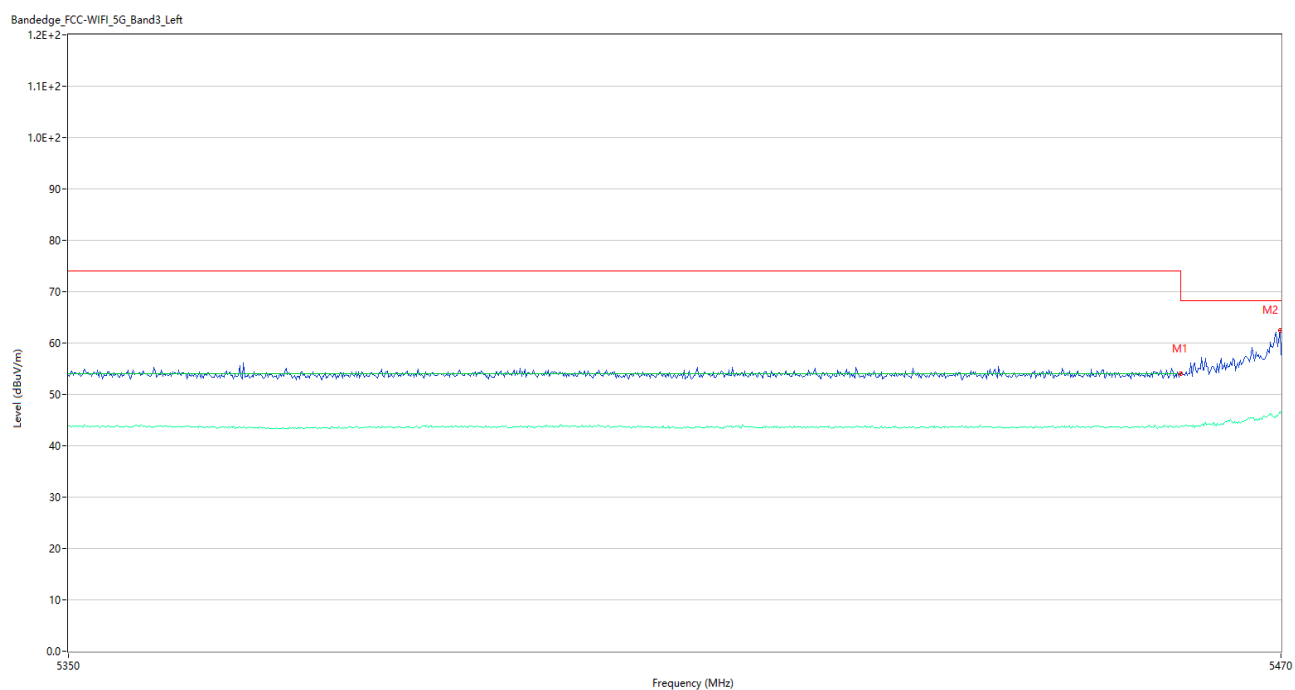
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.05	3.78	68.2	14.15	Peak	308.28	150	Horizontal	Pass
1**	5460.000	43.65	3.78	54.0	10.35	AV	308.28	150	Horizontal	Pass
2	5470.000	61.41	4.09	68.2	6.79	Peak	87.00	150	Horizontal	Pass
2**	5470.000	47.48	4.09	--	-47.48	AV	87.00	150	Horizontal	N/A

U-NII-2C 11a CH140



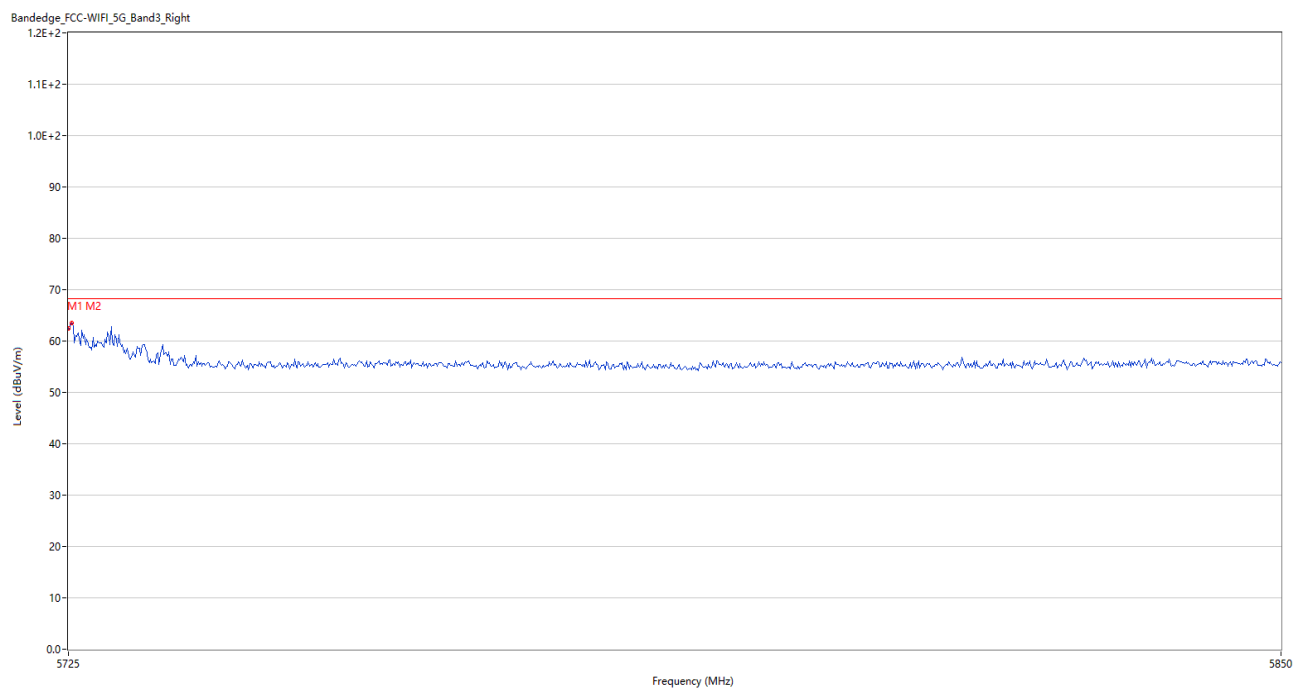
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	60.83	4.31	68.2	7.37	Peak	263.00	150	Horizontal	Pass
2	5725.875	63.17	4.28	68.2	5.03	Peak	243.00	150	Horizontal	Pass

U-NII-2C 11n20 CH100



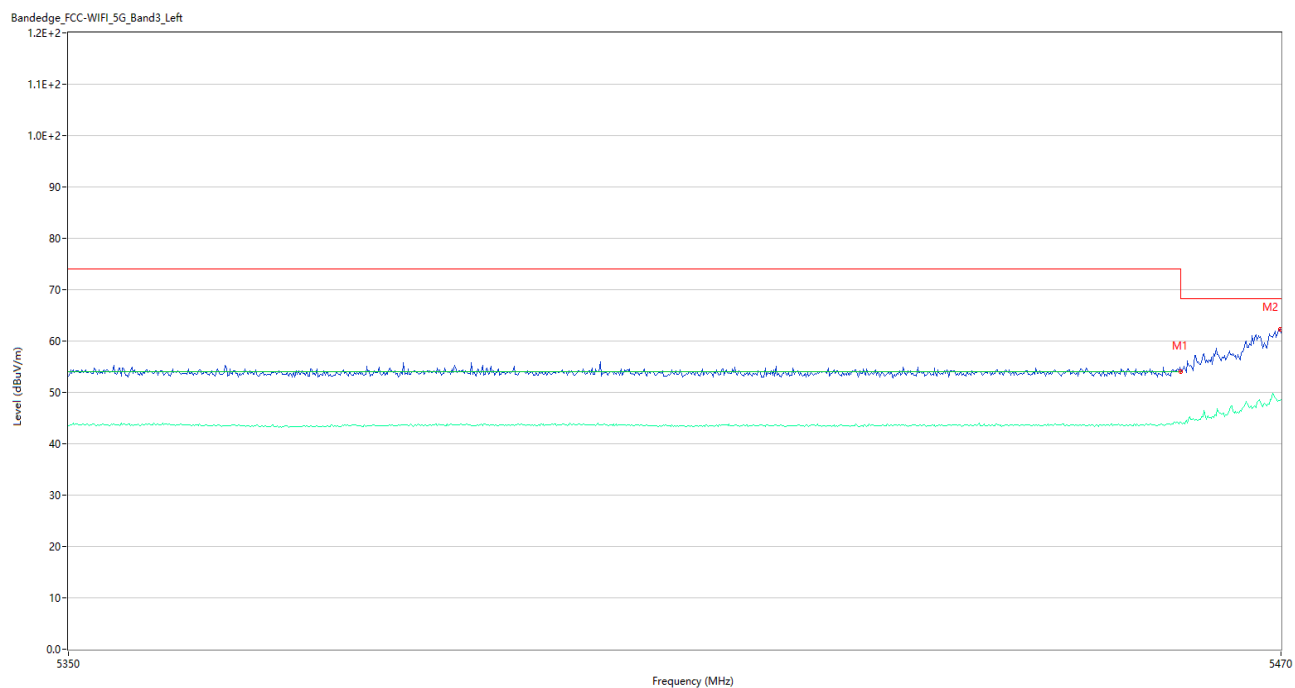
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.18	3.78	68.2	14.02	Peak	271.95	150	Vertical	Pass
1**	5460.000	43.79	3.78	54.0	10.21	AV	271.95	150	Vertical	Pass
2	5469.880	62.46	4.09	68.2	5.74	Peak	220.00	150	Vertical	Pass
2**	5469.880	46.65	4.09	--	-46.65	AV	220.00	150	Vertical	N/A

U-NII-2C 11n20 CH140



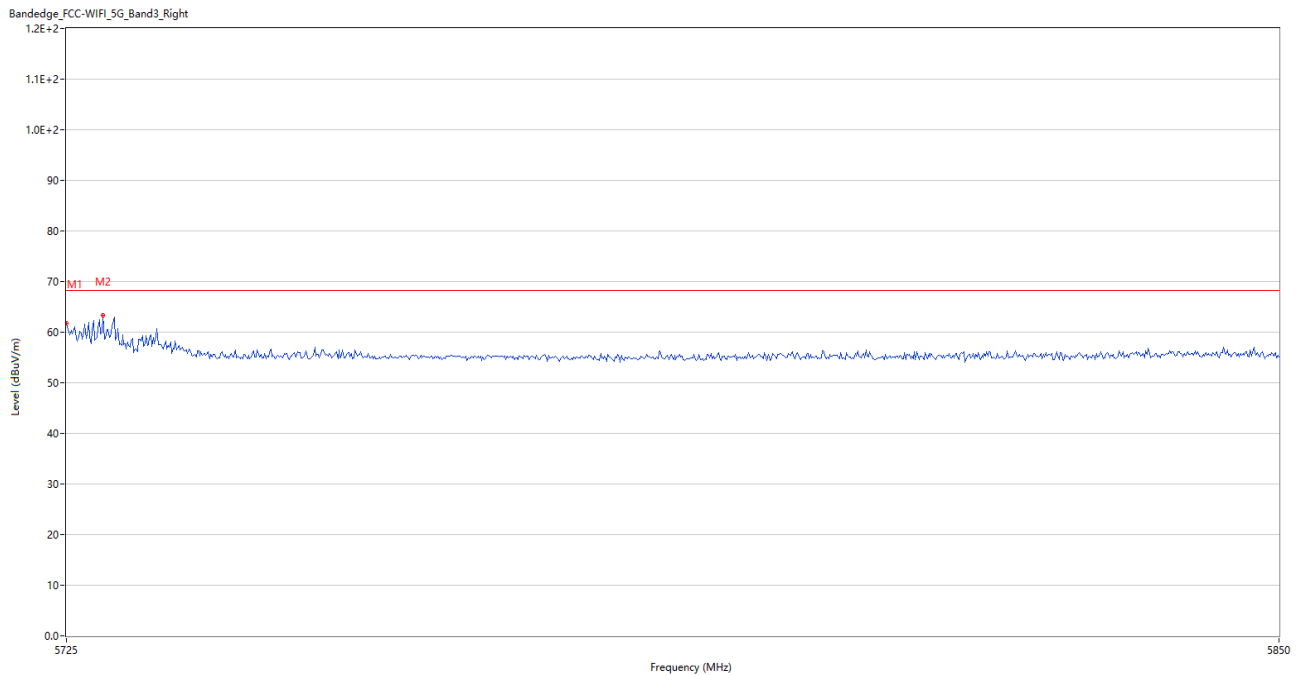
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	62.40	4.31	68.2	5.80	Peak	259.00	150	Vertical	Pass
2	5725.375	63.57	4.30	68.2	4.63	Peak	259.00	150	Vertical	Pass

U-NII-2C 11n40 CH102



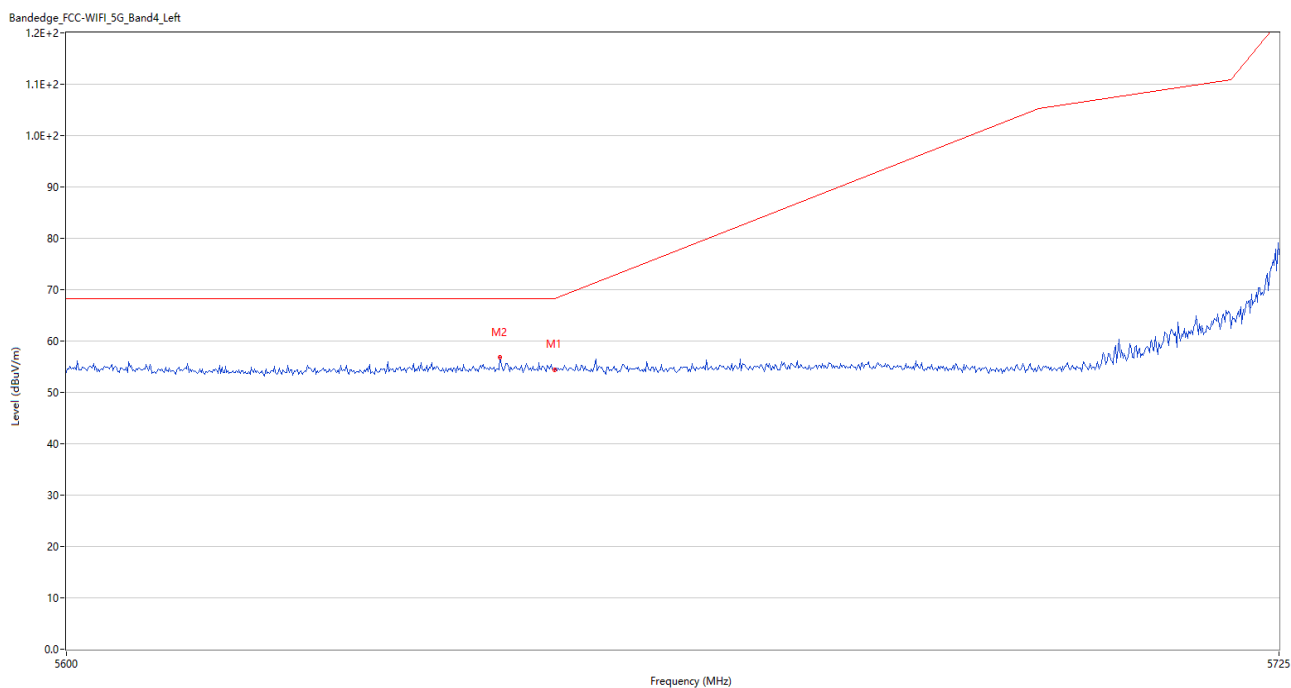
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.46	3.78	68.2	13.74	Peak	158.17	150	Vertical	Pass
1**	5460.000	44.10	3.78	54.0	9.90	AV	158.17	150	Vertical	Pass
2	5469.880	62.26	4.09	68.2	5.94	Peak	360.00	150	Vertical	Pass
2**	5469.880	48.50	4.09	--	-48.50	AV	360.00	150	Vertical	N/A

U-NII-2C 11n40 CH134



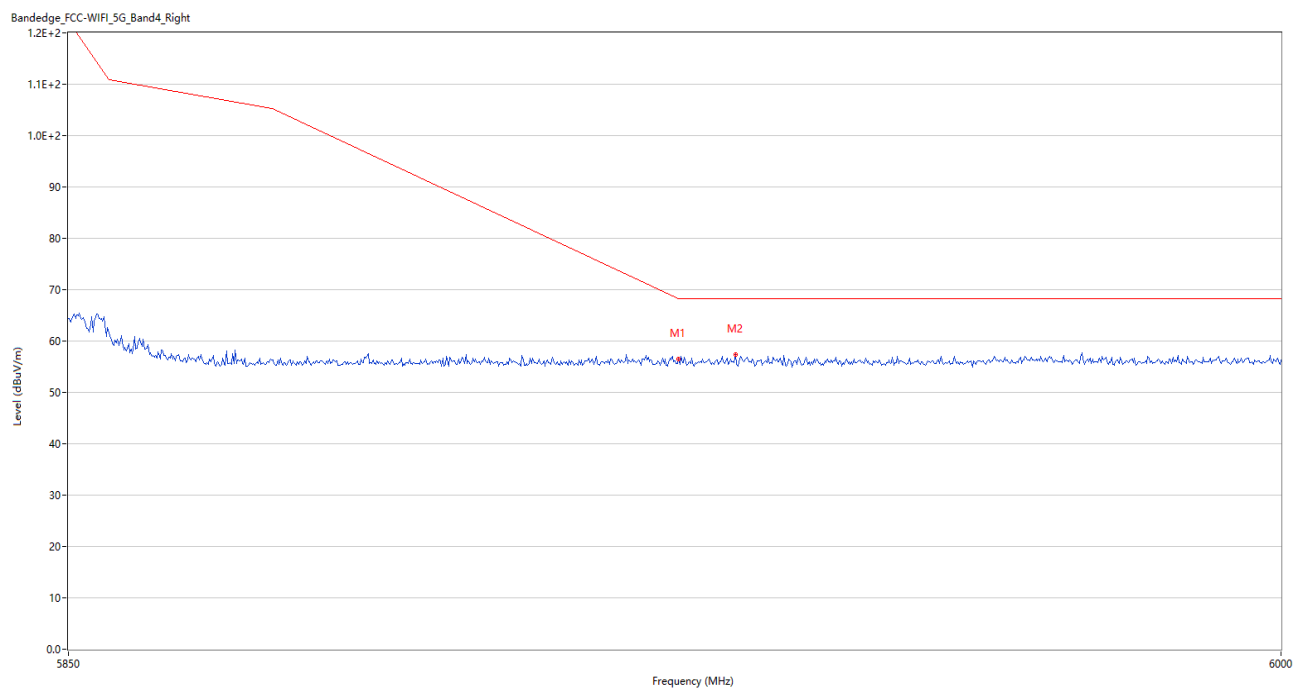
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	61.78	4.31	68.2	6.42	Peak	78.00	150	Horizontal	Pass
2	5728.750	63.42	4.20	68.2	4.78	Peak	261.00	150	Horizontal	Pass

U-NII-3 11a CH149



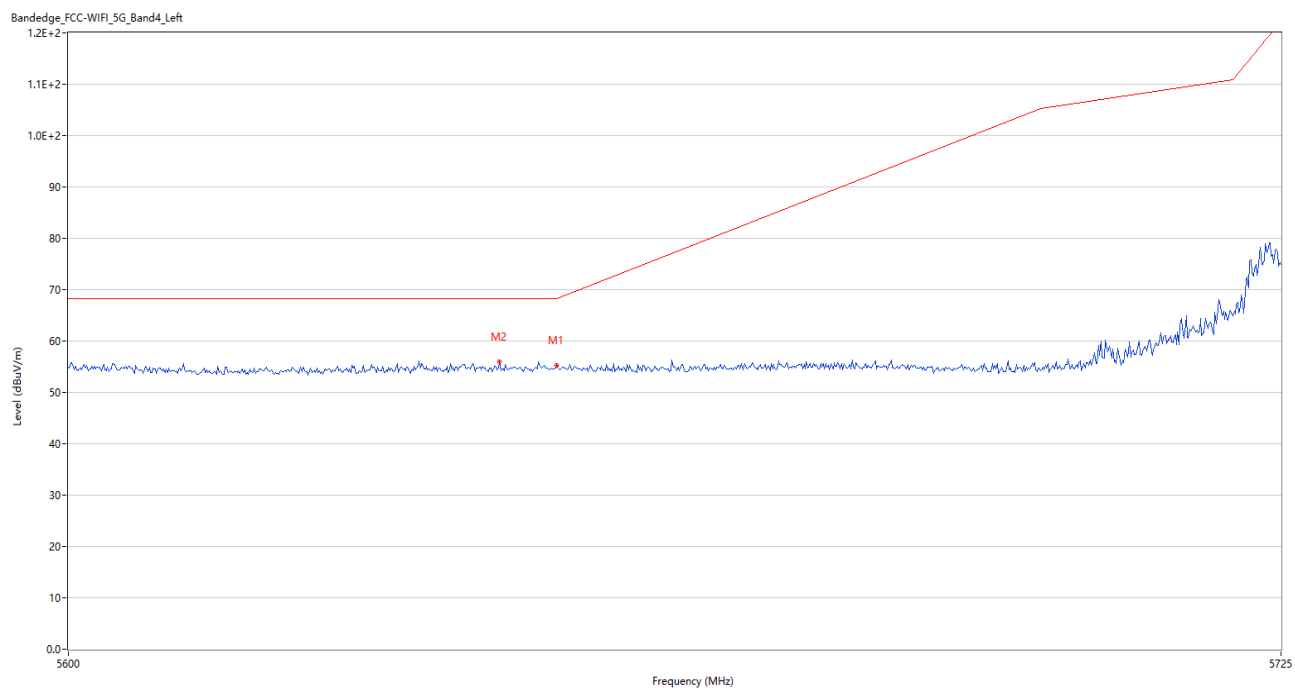
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	54.44	3.81	68.2	13.76	Peak	253.85	150	Horizontal	Pass
2	5644.375	56.78	3.77	68.2	11.42	Peak	43.00	150	Horizontal	Pass

U-NII-3 11a CH165



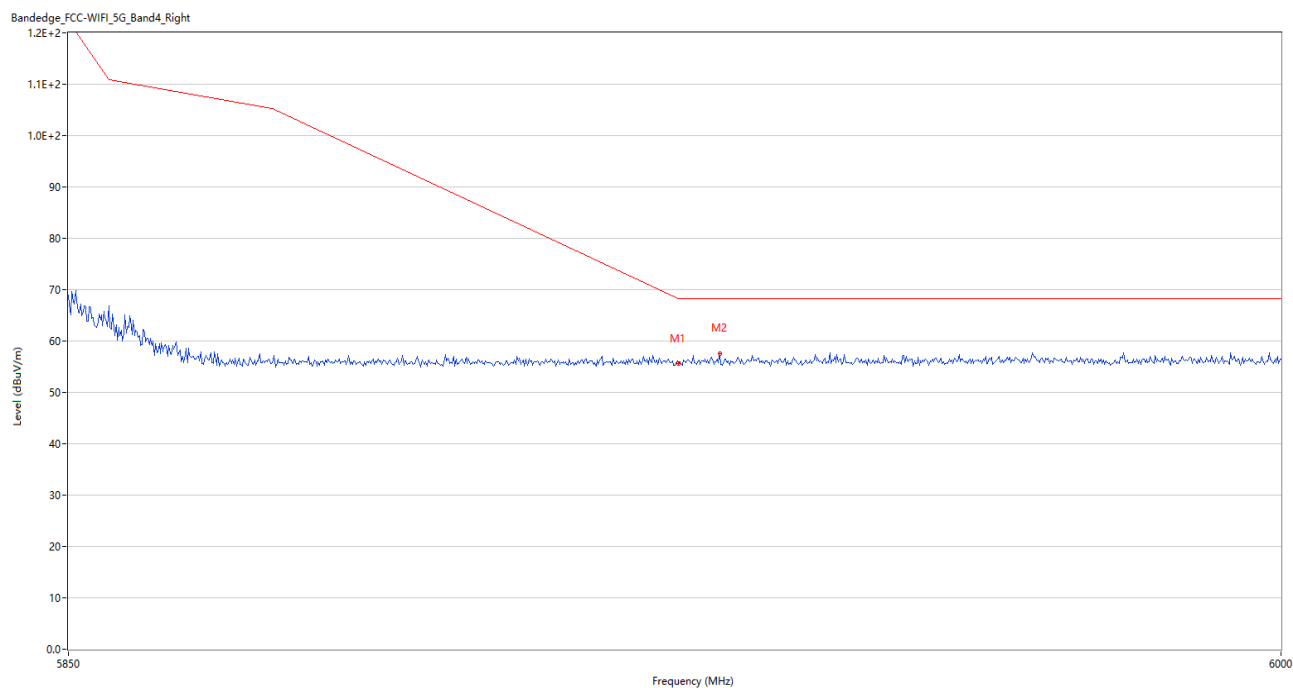
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	56.53	6.44	68.2	11.67	Peak	342.00	150	Vertical	Pass
2	5932.050	57.35	6.28	68.2	10.85	Peak	294.00	150	Vertical	Pass

U-NII-3 11n20 CH149



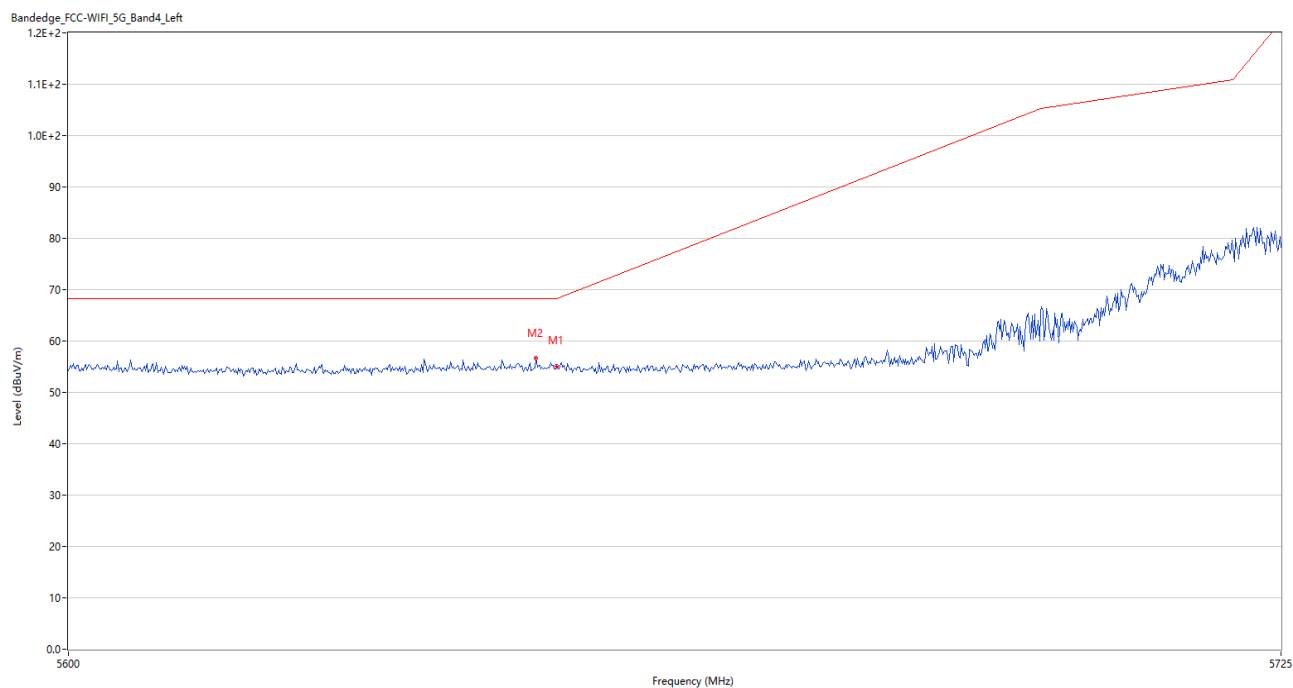
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.22	3.81	68.2	12.98	Peak	87.22	150	Horizontal	Pass
2	5644.125	56.02	3.77	68.2	12.18	Peak	353.00	150	Horizontal	Pass

U-NII-3 11n20 CH165



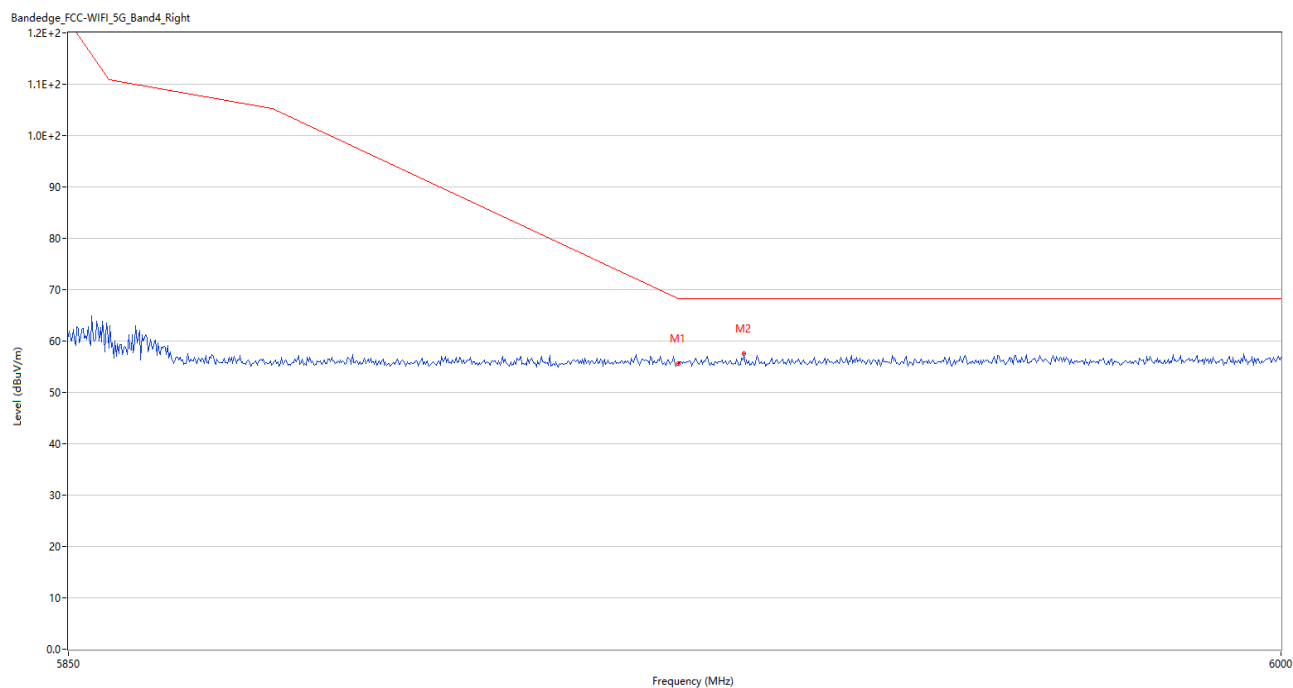
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.61	6.44	68.2	12.59	Peak	116.31	150	Horizontal	Pass
2	5930.100	57.55	6.31	68.2	10.65	Peak	360.00	150	Horizontal	Pass

U-NII-3 11n40 CH151



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.12	3.81	68.2	13.08	Peak	74.28	150	Horizontal	Pass
2	5647.875	56.69	3.80	68.2	11.51	Peak	124.00	150	Horizontal	Pass

U-NII-3 11n40 CH159



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.61	6.44	68.2	12.59	Peak	355.62	150	Horizontal	Pass
2	5933.100	57.50	6.24	68.2	10.70	Peak	102.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2591432-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2591432-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2591432-AI.PDF”.

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2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
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--END OF REPORT--