



TEST REPORT

Applicant: Intrepid Control Systems, Inc.
Address: 1850 Research Dr., Troy Michigan 48083 USA
Equipment Type: neoVI-Connect
Model Name: 110-0071-02
Brand Name: Intrepid
FCC ID: 2A923241206ROEM1
ISED Number: 29961-241206ROEM1
Test Standard: 47 CFR Part 15 Subpart E
RSS-Gen Issue 5
RSS-247 Issue 3
(refer to section 3.1)
Sample Arrival Date: Feb. 19, 2025
Test Date: Feb. 19, 2025 - Feb. 26, 2025
Date of Issue: Apr. 14, 2025

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>Apr. 08, 2025</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Apr. 14, 2025</u>	<u>Modify the Antenna Gain and Total directional gain in Section 2.4.</u> <u>Modify the EIRP Power in ANNEX A.1.</u> <u>The original report is invalid.</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Test Laboratory	4
1.2	Test Location	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information	5
2.3	General Description for Equipment under Test (EUT)	5
2.4	Technical Information	6
2.5	Channel List	8
3	SUMMARY OF TEST RESULTS	11
3.1	Test Standards	11
3.2	Test Verdict	12
4	GENERAL TEST CONFIGURATIONS	13
4.1	Test Environments	13
4.2	Test Equipment List	13
4.3	Test Software List	13
4.4	Decision Rule	14
4.5	Measurement Uncertainty	14
4.6	Description of Test Setup	15
5	TEST ITEMS	18
5.1	RF Output Power	18
5.2	Emission Bandwidth and 6 dB Bandwidth	20
5.3	Power Spectral density (PSD)	21

5.4	Conducted Emission	22
5.5	Radiated Spurious Emissions and Band Edge (Restricted-band)	23
ANNEX A	TEST RESULT	28
A.1	RF Output Power	28
A.2	Emission Bandwidth & 99% Bandwidth	41
A.3	6 dB Bandwidth	41
A.4	Power Spectral Density	41
A.5	Conducted Emission	41
A.6	Radiated Spurious Emissions and Band Edge (Restricted-band)	42
ANNEX B	TEST SETUP PHOTOS	168
ANNEX C	EUT EXTERNAL PHOTOS	168
ANNEX D	EUT INTERNAL PHOTOS	168

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1st to 2nd floors, Building 1, No. 222 Xuanlan Road, Xuanqiao Town, Pudong New District, Shanghai

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1st to 2nd floors, Building 1, No. 222 Xuanlan Road, Xuanqiao Town, Pudong New District, Shanghai
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 29671.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Intrepid Control Systems, Inc.
Address	1850 Research Dr., Troy Michigan 48083 USA

2.2 Manufacturer Information

Manufacturer	Intrepid Control Systems, Inc.
Address	1850 Research Dr., Troy Michigan 48083 USA

2.3 General Description for Equipment under Test (EUT)

EUT Name	neoVI-Connect
Model Name Under Test	110-0071-02
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	SC-SH2510055-S02(conducted) SC-SH2510055-S05(radiated)
Hardware Version	110-0071
Software Version	R2C1224
Dimensions (Approx.)	L:155.0mm* W:209.7mm* H:43.75mm*
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	2G Network GSM 850/1900 MHz 3G Network WCDM Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/13/25/26/66 TDD Band 38/41 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)
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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	256QAM, 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 802.11ac: up to VHT-MCS9	
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz	
Maximum Output Power	U-NII-1: 14.06 dBm U-NII-2A: 14.02 dBm U-NII-2C: 13.99 dBm U-NII-3: 15.35 dBm	
Antenna System (eg., MIMO, Smart Antenna)	Cyclic Delay Diversity (CDD) for 802.11a Multi Input Multi Output (MIMO) for 802.11n/ac	
Categorization as Correlated or Completely Uncorrelated	Categorization as Correlated for 802.11a Categorization as Uncorrelated for 802.11n/ac	
Antenna Type	Main Antenna	Rod Antenna
	Aux. Antenna	
Antenna Gain	Main Antenna	U-NII-1: 5150 MHz to 5250 MHz: 4.90 dBi U-NII-2A: 5250 MHz to 5350 MHz: 4.90 dBi U-NII-2C: 5470 MHz to 5725 MHz: 4.90 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.90 dBi
	Aux. Antenna	U-NII-1: 5150 MHz to 5250 MHz: 4.90 dBi U-NII-2A: 5250 MHz to 5350 MHz: 4.90 dBi U-NII-2C: 5470 MHz to 5725 MHz: 4.90 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.90 dBi
Total directional gain	For power spectral density(PSD) measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 7.91 dBi U-NII-2A: 5250 MHz to 5350 MHz: 7.91 dBi U-NII-2C: 5470 MHz to 5725 MHz: 7.91 dBi

		U-NII-3: 5725 MHz to 5850 MHz: 7.91 dBi Formulas: Directional gain = $GANT + 10 \log(NANT)$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 4.90 dBi U-NII-2A: 5250 MHz to 5350 MHz: 4.90 dBi U-NII-2C: 5470 MHz to 5725 MHz: 4.90 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.90 dBi Formulas: Directional gain = $GANT$
	For power measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 7.91 dBi U-NII-2A: 5250 MHz to 5350 MHz: 7.91 dBi U-NII-2C: 5470 MHz to 5725 MHz: 7.91 dBi U-NII-3: 5725 MHz to 5850 MHz: 7.91 dBi Formulas: Directional gain = $GANT + 10 \log(NANT)$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 4.90 dBi U-NII-2A: 5250 MHz to 5350 MHz: 4.90 dBi U-NII-2C: 5470 MHz to 5725 MHz: 4.90 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.90 dBi Formulas: Directional gain = $GANT$
About the Product		The equipment is neoVI-Connect, intended for used with information technology equipment.

Mode	Antenna		
	Main Antenna	Aux. Antenna	MIMO
802.11a	√	√	--
802.11n20	√	√	√
802.11n40	√	√	√
802.11ac20	√	√	√
802.11ac40	√	√	√
802.11ac80	√	√	√
Note: All the configurations were tested, but only the worst data was shown in this report.			

2.5 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	58	5290
44	5220	54	5270	106	5530
48	5240	62	5310	122	5610
52	5260	102	5510	155	5775
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				

Note: This report equipment will not transmit in the 5600-5650 MHz frequency band when used in Canada. This restriction is to protect weather radars operating in this frequency band.

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)/ac(VHT20)

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)/ac(VHT40)

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 (5150 - 5250 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			

For 802.11ac(VHT80)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Mid	5210	58	Mid	5290

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
106	Low	5530	155	Mid	5775
122	High	5610			

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
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
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
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
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
	11ac(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(80 MHz)	29.3		N/A	N/A	N/A	155
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
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
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
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
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
	11ac(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11ac(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155

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	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-247 Issue 3	Digital Transmission Systems (DTSs), Frequency Hopping Systems(FHSs) and Licence-Exemp Local Area Network (LE-LAN) Devices
4	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
5	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
6	ANSI C63.10-2013	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	RSS-247, 6.2	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	RSS-247, 6.2	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	RSS-247, 6.2	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	RSS-247, 6.2	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	RSS-247, 6.2	ANNEX A.4	Pass
6	Conducted Emission	15.207	RSS-GEN, 8.8	--	N/A ^{Note4}
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	RSS-247, 6.2	ANNEX A.6	Pass
8	Receiver Spurious Emissions	--	RSS-Gen, 7.1.2	--	N/A ^{Note2}

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

Note ²: Only radio communication receivers operating in stand-alone mode within the U-NII-30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable.

Note ³: Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.

Note ⁴: The EUT is only used in vehicle environment. So the Conducted Emission test is not applicable.

Note ⁵: For FCC standard, the RF module installed in the EUT is electronically and mechanically identical to the original certified module in the test report, No. SUHR/2021/B001004 (FCC ID: XMR202201AF51Y) which issued by SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd on Apr. 02, 2022. Therefore, Output Power, Radiated Spurious Emissions and Band Edge (Restricted-band) were tested in this report, other test projects refer to the original report, No. SUHR/2021/B001004 (FCC ID: XMR202201AF51Y) which issued by SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd on Apr. 02, 2022.

Note ⁶: For IC standard, the RF module installed in the EUT is electronically and mechanically identical to the original certified module in the test report, No. SUHR/2021/B001010 (ISED Number: 10224A-202201AF51Y) which issued by SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd on Apr. 06, 2022. Therefore, Output Power, Radiated Spurious Emissions and Band Edge (Restricted-band) were tested in this report, other test projects refer to the original report, No. SUHR/2021/B001010 (ISED Number: 10224A-202201AF51Y) which issued by SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd on Apr. 06, 2022.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	53% to 59%	
Atmospheric Pressure	101 kPa	
Temperature	NT (Normal Temperature)	+22.8°C to +23.9°C
Working Voltage of the EUT	NV (Normal Voltage)	12 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420147	2025.02.12	2026.02.11
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240977	2025.02.12	2026.02.11
Signal Generator	Anritsu	MG3710E	6262063515	2025.02.12	2026.02.11
Wideband Radio Communication Tester	R&S	CMW500	168792	2025.02.11	2026.02.10
EMI Receiver	KEYSIGHT	N9038A	MY55330122	2024.07.09	2025.07.08
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-177	2024.03.11	2027.03.10
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-1203	2024.03.11	2027.03.10
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-2134	2024.03.11	2027.03.10
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400-KF	J211060307	2024.03.11	2027.03.10
Anechoic Chamber	YiHeng	9m*6m*6m	EMC001	2024.04.18	2027.04.17
EMI Receiver	KEYSIGHT	N9038A	MY55330115	2025.02.12	2026.02.11
LISN	SCHWARZBECK	NSLK 8127	8127-940	2025.02.11	2026.02.10
10dB Limiter	SCHWARZBECK	VTSD 9561-F	9561-F N00409	2025.02.11	2026.02.10
Shielded Room	YiHeng	5m*4m*3.2 m	EMC006	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 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)

4.5 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	2.4 %
RF output power, conducted	0.41 dB
Power Spectral Density, conducted	1.73 dB
Unwanted Emissions, conducted	1.73 dB
All emissions, radiated	4.57 dB
Temperature	0.82 °C
Humidity	4.1 %

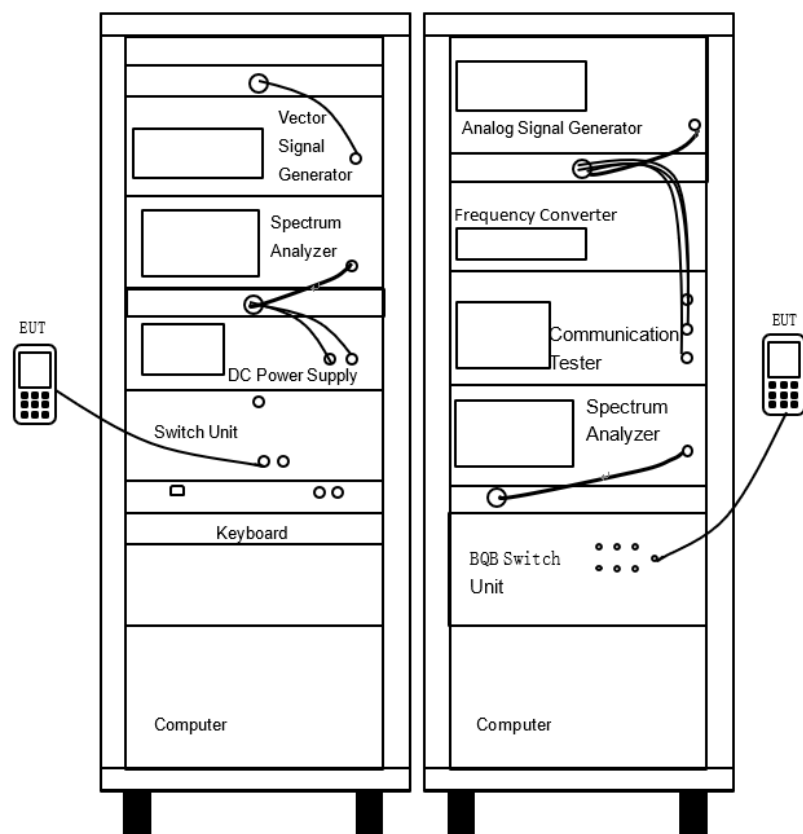
4.6 Description of Test Setup

4.6.1 For Antenna Port Test

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

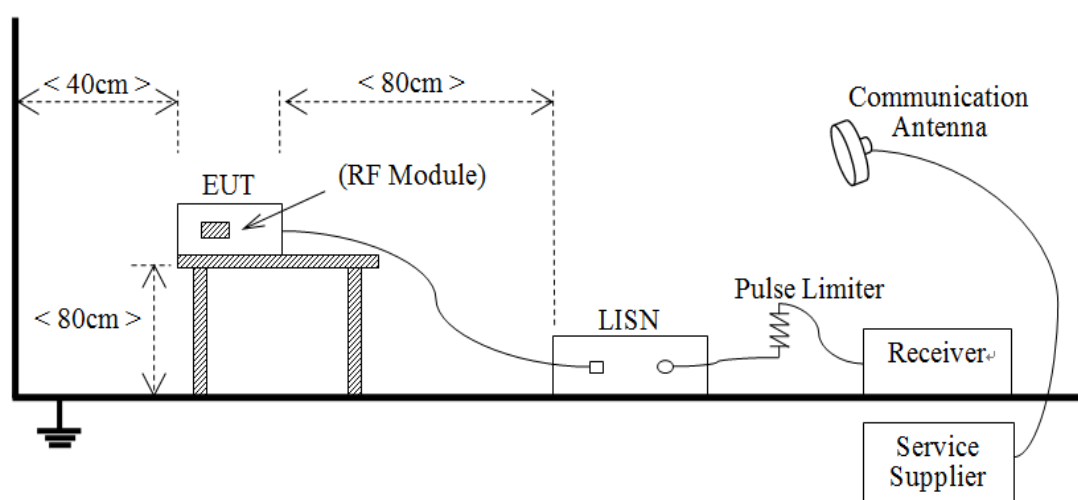
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:

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



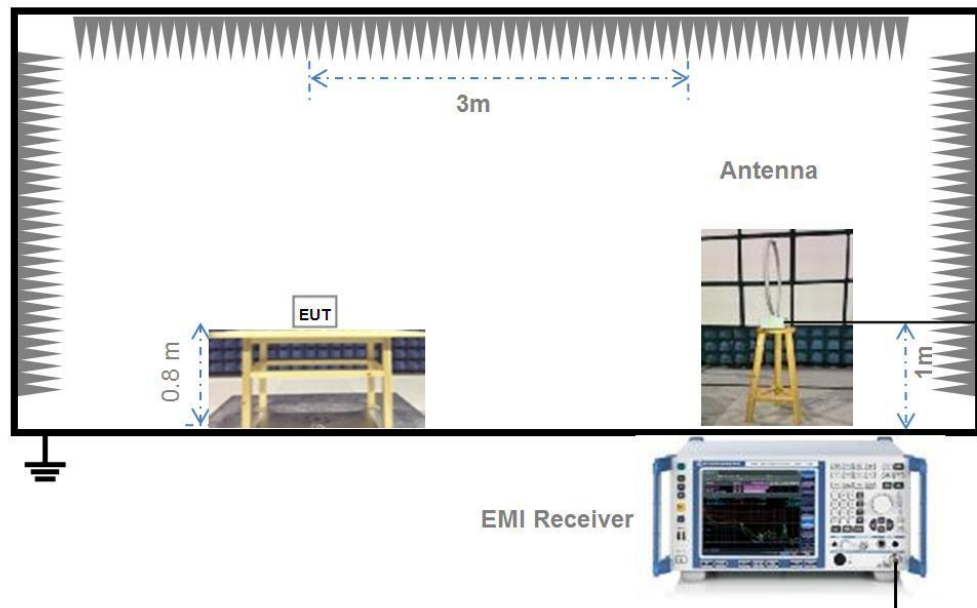
(Diagram 1)

4.6.2 For AC Power Supply Port Test



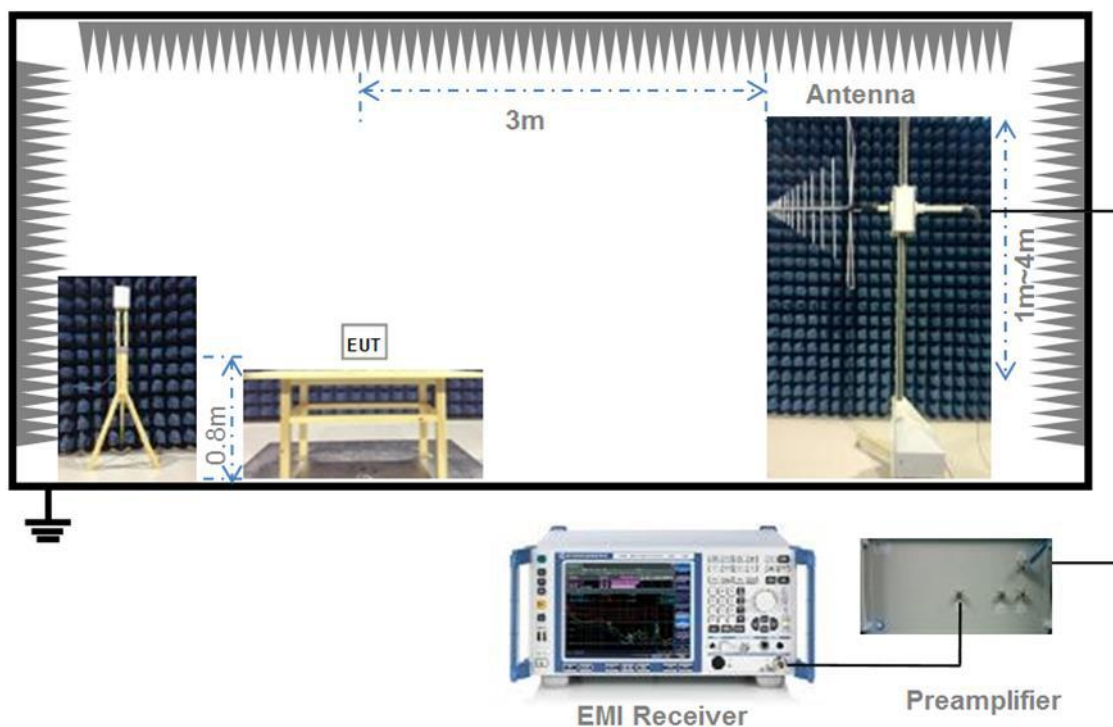
(Diagram 2)

4.6.3 For Radiated Test (Below 30 MHz)



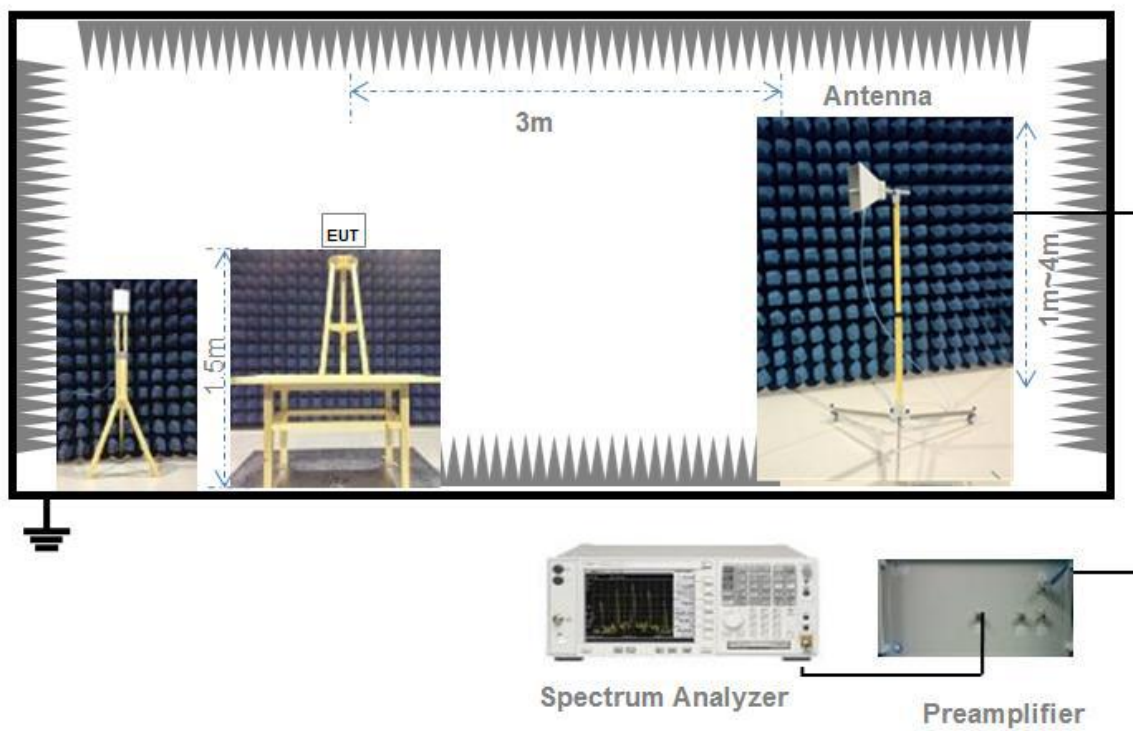
(Diagram 3)

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.	

RSS-247, 6.2

The maximum conducted output power shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	N/A
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 99% emissions bandwidth in MHz.	

The maximum e.i.r.p. shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	200 mW or 10 dBm + 10log B, whichever is less.
5250-5350	1W or 17 dBm + 10log B, whichever is less.
5470-5725	1W or 17 dBm + 10log B, whichever is less.
5725-5850	N/A
Note: Where "B" is the 99% 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), RSS-247, 6.2

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

RSS-247, 6.2

The maximum power spectral density should not exceed:

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

The e.i.r.p. spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	10 dBm/MHz
5250-5350	N/A
5470-5725	N/A
5725-5850	N/A

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, RSS-GEN, 8.8

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
0.50 - 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)

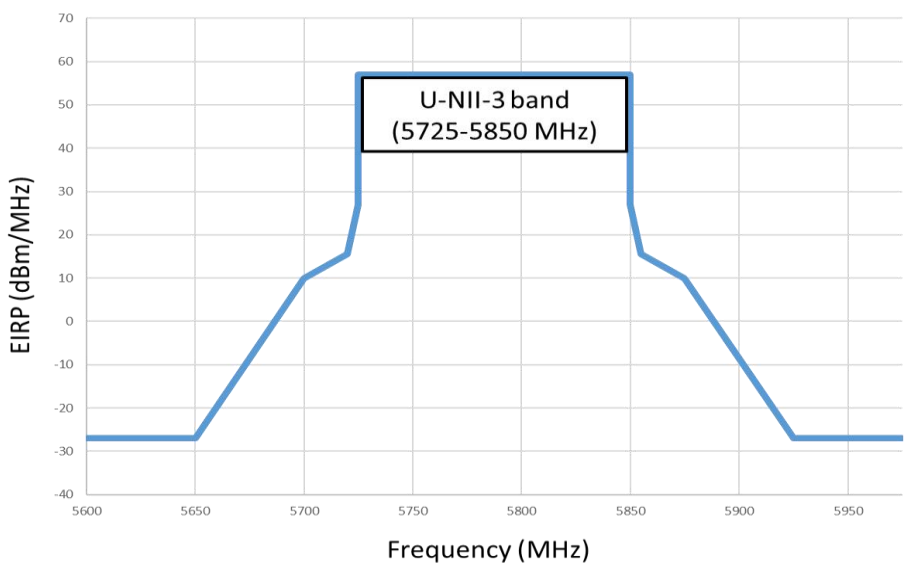
5.5.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

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 $\geq 3 * \text{RBW}$.
- 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 $\geq 3 * \text{RBW}$.
- 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: For IC standard, the U-NII-3 (5725 - 5850 MHz) maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note 3: All the configurations were tested, but only the worst data was shown in this report.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	2.03	2.07	98.06%
11n (HT20)/11ac (VHT20)	1.70	1.74	97.82%
11n (HT40)/11ac (VHT40)	0.84	0.88	95.49%
11ac (VHT80)	0.41	0.45	91.19%

Test Data

Conducted Power

Main Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.97	24.97	250	Pass
11a	CH44	13.98	25.03	250	Pass
11a	CH48	13.80	24.02	250	Pass
11n (HT20)	CH36	11.96	15.69	250	Pass
11n (HT20)	CH44	12.06	16.05	250	Pass
11n (HT20)	CH48	11.68	14.71	250	Pass
11n (HT40)	CH38	13.88	24.44	250	Pass
11n (HT40)	CH46	13.70	23.44	250	Pass
11ac (VHT20)	CH36	12.06	16.05	250	Pass
11ac (VHT20)	CH44	12.00	15.83	250	Pass
11ac (VHT20)	CH48	11.78	15.05	250	Pass
11ac (VHT40)	CH38	13.90	24.55	250	Pass
11ac (VHT40)	CH46	13.76	23.77	250	Pass
11ac (VHT80)	CH42	14.06	25.47	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	13.22	21.01	250	Pass
11a	CH60	13.16	20.72	250	Pass
11a	CH64	13.23	21.06	250	Pass
11n (HT20)	CH52	13.62	22.99	250	Pass
11n (HT20)	CH60	13.66	23.21	250	Pass
11n (HT20)	CH64	13.56	22.68	250	Pass
11n (HT40)	CH54	14.02	25.24	250	Pass
11n (HT40)	CH62	13.85	24.27	250	Pass
11ac (VHT20)	CH52	13.64	23.10	250	Pass
11ac (VHT20)	CH60	13.66	23.21	250	Pass
11ac (VHT20)	CH64	13.62	22.99	250	Pass
11ac (VHT40)	CH54	14.02	25.24	250	Pass
11ac (VHT40)	CH62	13.89	24.49	250	Pass
11ac (VHT80)	CH58	13.54	22.60	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	13.73	23.63	250	Pass
11a	CH116	13.71	23.52	250	Pass
11a	CH140	13.70	23.47	250	Pass
11n (HT20)	CH100	13.59	22.83	250	Pass
11n (HT20)	CH116	13.50	22.37	250	Pass
11n (HT20)	CH140	13.55	22.63	250	Pass
11n (HT40)	CH102	13.57	22.75	250	Pass
11n (HT40)	CH118	13.80	23.99	250	Pass
11n (HT40)	CH134	13.69	23.39	250	Pass
11ac (VHT20)	CH100	13.66	23.21	250	Pass
11ac (VHT20)	CH116	13.59	22.83	250	Pass
11ac (VHT20)	CH140	13.64	23.10	250	Pass
11ac (VHT40)	CH102	13.65	23.18	250	Pass
11ac (VHT40)	CH118	13.85	24.27	250	Pass
11ac (VHT40)	CH134	13.73	23.61	250	Pass
11ac (VHT80)	CH106	13.95	24.83	250	Pass
11ac (VHT80)	CH122	13.76	23.77	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	13.57	22.78	1000	Pass
11a	CH157	13.52	22.52	1000	Pass
11a	CH165	13.75	23.74	1000	Pass
11n (HT20)	CH149	13.45	22.11	1000	Pass
11n (HT20)	CH157	13.43	22.01	1000	Pass
11n (HT20)	CH165	13.68	23.31	1000	Pass
11n (HT40)	CH151	13.79	23.93	1000	Pass
11n (HT40)	CH159	13.82	24.10	1000	Pass
11ac (VHT20)	CH149	13.47	22.21	1000	Pass
11ac (VHT20)	CH157	13.44	22.06	1000	Pass
11ac (VHT20)	CH165	13.73	23.58	1000	Pass
11ac (VHT40)	CH151	13.80	23.99	1000	Pass
11ac (VHT40)	CH159	13.83	24.16	1000	Pass
11ac (VHT80)	CH155	13.66	23.23	1000	Pass

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.70	23.47	250	Pass
11a	CH44	13.44	22.10	250	Pass
11a	CH48	13.35	21.65	250	Pass
11n (HT20)	CH36	12.21	16.62	250	Pass
11n (HT20)	CH44	12.35	17.16	250	Pass
11n (HT20)	CH48	12.28	16.89	250	Pass
11n (HT40)	CH38	12.64	18.37	250	Pass
11n (HT40)	CH46	13.42	21.98	250	Pass
11ac (VHT20)	CH36	12.26	16.81	250	Pass
11ac (VHT20)	CH44	12.35	17.16	250	Pass
11ac (VHT20)	CH48	12.25	16.77	250	Pass
11ac (VHT40)	CH38	13.54	22.60	250	Pass
11ac (VHT40)	CH46	13.42	21.98	250	Pass
11ac (VHT80)	CH42	12.06	16.07	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	13.12	20.53	250	Pass
11a	CH60	13.57	22.78	250	Pass
11a	CH64	13.61	22.99	250	Pass
11n (HT20)	CH52	12.87	19.35	250	Pass
11n (HT20)	CH60	12.59	18.14	250	Pass
11n (HT20)	CH64	12.59	18.14	250	Pass
11n (HT40)	CH54	12.82	19.14	250	Pass
11n (HT40)	CH62	12.63	18.32	250	Pass
11ac (VHT20)	CH52	12.88	19.39	250	Pass
11ac (VHT20)	CH60	12.54	17.93	250	Pass
11ac (VHT20)	CH64	12.56	18.01	250	Pass
11ac (VHT40)	CH54	12.76	18.88	250	Pass
11ac (VHT40)	CH62	12.68	18.54	250	Pass
11ac (VHT80)	CH58	13.42	21.98	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	13.53	22.57	250	Pass
11a	CH116	13.99	25.09	250	Pass
11a	CH140	13.80	24.02	250	Pass
11n (HT20)	CH100	12.74	18.78	250	Pass
11n (HT20)	CH116	13.30	21.36	250	Pass
11n (HT20)	CH140	13.73	23.58	250	Pass
11n (HT40)	CH102	12.92	19.59	250	Pass
11n (HT40)	CH118	13.23	21.04	250	Pass
11n (HT40)	CH134	13.77	23.82	250	Pass
11ac (VHT20)	CH100	12.61	18.22	250	Pass
11ac (VHT20)	CH116	12.81	19.08	250	Pass
11ac (VHT20)	CH140	13.53	22.52	250	Pass
11ac (VHT40)	CH102	12.52	17.87	250	Pass
11ac (VHT40)	CH118	13.24	21.09	250	Pass
11ac (VHT40)	CH134	13.44	22.08	250	Pass
11ac (VHT80)	CH106	13.35	21.63	250	Pass
11ac (VHT80)	CH122	13.57	22.75	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	15.28	33.77	1000	Pass
11a	CH157	15.25	33.53	1000	Pass
11a	CH165	15.09	32.32	1000	Pass
11n (HT20)	CH149	14.77	29.96	1000	Pass
11n (HT20)	CH157	15.15	32.70	1000	Pass
11n (HT20)	CH165	15.10	32.33	1000	Pass
11n (HT40)	CH151	14.23	26.49	1000	Pass
11n (HT40)	CH159	14.26	26.67	1000	Pass
11ac (VHT20)	CH149	15.35	34.24	1000	Pass
11ac (VHT20)	CH157	15.17	32.85	1000	Pass
11ac (VHT20)	CH165	15.14	32.63	1000	Pass
11ac (VHT40)	CH151	14.20	26.30	1000	Pass
11ac (VHT40)	CH159	14.31	26.98	1000	Pass
11ac (VHT80)	CH155	14.43	27.74	1000	Pass

MIMO

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11n (HT20)	CH36	15.09	32.31	250	Pass
11n (HT20)	CH44	15.21	33.22	250	Pass
11n (HT20)	CH48	15.00	31.60	250	Pass
11n (HT40)	CH38	16.31	42.80	250	Pass
11n (HT40)	CH46	16.57	45.42	250	Pass
11ac (VHT20)	CH36	15.17	32.87	250	Pass
11ac (VHT20)	CH44	15.18	33.00	250	Pass
11ac (VHT20)	CH48	15.03	31.82	250	Pass
11ac (VHT40)	CH38	16.73	47.14	250	Pass
11ac (VHT40)	CH46	16.60	45.75	250	Pass
11ac (VHT80)	CH42	16.18	41.54	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11n (HT20)	CH52	16.27	42.34	250	Pass
11n (HT20)	CH60	16.16	41.34	250	Pass
11n (HT20)	CH64	16.11	40.82	250	Pass
11n (HT40)	CH54	16.47	44.38	250	Pass
11n (HT40)	CH62	16.29	42.59	250	Pass
11ac (VHT20)	CH52	16.28	42.49	250	Pass
11ac (VHT20)	CH60	16.14	41.14	250	Pass
11ac (VHT20)	CH64	16.13	41.01	250	Pass
11ac (VHT40)	CH54	16.45	44.12	250	Pass
11ac (VHT40)	CH62	16.34	43.03	250	Pass
11ac (VHT80)	CH58	16.49	44.58	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11n (HT20)	CH100	16.19	41.61	250	Pass
11n (HT20)	CH116	16.41	43.73	250	Pass
11n (HT20)	CH140	16.65	46.21	250	Pass
11n (HT40)	CH102	16.27	42.34	250	Pass
11n (HT40)	CH118	16.53	45.03	250	Pass
11n (HT40)	CH134	16.74	47.21	250	Pass
11ac (VHT20)	CH100	16.17	41.43	250	Pass
11ac (VHT20)	CH116	16.22	41.91	250	Pass
11ac (VHT20)	CH140	16.59	45.62	250	Pass
11ac (VHT40)	CH102	16.13	41.04	250	Pass
11ac (VHT40)	CH118	16.57	45.36	250	Pass
11ac (VHT40)	CH134	16.60	45.69	250	Pass
11ac (VHT80)	CH106	16.67	46.46	250	Pass
11ac (VHT80)	CH122	16.68	46.52	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11n (HT20)	CH149	17.17	52.07	1000	Pass
11n (HT20)	CH157	17.38	54.71	1000	Pass
11n (HT20)	CH165	17.45	55.64	1000	Pass
11n (HT40)	CH151	17.03	50.42	1000	Pass
11n (HT40)	CH159	17.06	50.77	1000	Pass
11ac (VHT20)	CH149	17.52	56.46	1000	Pass
11ac (VHT20)	CH157	17.40	54.91	1000	Pass
11ac (VHT20)	CH165	17.50	56.21	1000	Pass
11ac (VHT40)	CH151	17.02	50.29	1000	Pass
11ac (VHT40)	CH159	17.09	51.14	1000	Pass
11ac (VHT80)	CH155	17.07	50.97	1000	Pass

EIRP PowerMain Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH36	18.87	77.18	170	Pass
11a	CH44	18.88	77.35	167	Pass
11a	CH48	18.70	74.21	169	Pass
11n (HT20)	CH36	16.86	48.48	179	Pass
11n (HT20)	CH44	16.96	49.61	180	Pass
11n (HT20)	CH48	16.58	45.46	178	Pass
11n (HT40)	CH38	18.78	75.51	200	Pass
11n (HT40)	CH46	18.60	72.45	200	Pass
11ac (VHT20)	CH36	16.96	49.61	180	Pass
11ac (VHT20)	CH44	16.90	48.93	181	Pass
11ac (HVT20)	CH48	16.68	46.51	179	Pass
11ac (VHT40)	CH38	18.80	75.86	200	Pass
11ac (VHT40)	CH46	18.66	73.46	200	Pass
11ac (VHT80)	CH42	18.96	78.71	200	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH52	18.12	64.94	850	Pass
11a	CH60	18.06	64.05	849	Pass
11a	CH64	18.13	65.09	849	Pass
11n (HT20)	CH52	18.52	71.05	893	Pass
11n (HT20)	CH60	18.56	71.71	895	Pass
11n (HT20)	CH64	18.46	70.08	894	Pass
11n (HT40)	CH54	18.92	77.99	1000	Pass
11n (HT40)	CH62	18.75	74.99	1000	Pass
11ac (VHT20)	CH52	18.54	71.38	903	Pass
11ac (VHT20)	CH60	18.56	71.71	894	Pass
11ac (HVT20)	CH64	18.52	71.05	896	Pass
11ac (VHT40)	CH54	18.92	77.99	1000	Pass
11ac (VHT40)	CH62	18.79	75.69	1000	Pass
11ac (VHT80)	CH58	18.44	69.83	1000	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH100	18.63	73.03	846	Pass
11a	CH116	18.61	72.69	850	Pass
11a	CH140	18.60	72.52	851	Pass
11n (HT20)	CH100	18.49	70.57	897	Pass
11n (HT20)	CH116	18.40	69.12	898	Pass
11n (HT20)	CH140	18.45	69.92	896	Pass
11n (HT40)	CH102	18.47	70.31	1000	Pass
11n (HT40)	CH118	18.70	74.14	1000	Pass
11n (HT40)	CH134	18.59	72.28	1000	Pass
11ac (VHT20)	CH100	18.56	71.71	897	Pass
11ac (VHT20)	CH116	18.49	70.57	899	Pass
11ac (VHT20)	CH140	18.54	71.38	904	Pass
11ac (VHT40)	CH102	18.55	71.62	1000	Pass
11ac (VHT40)	CH118	18.75	74.99	1000	Pass
11ac (VHT40)	CH134	18.63	72.95	1000	Pass
11ac (VHT80)	CH106	18.85	76.74	1000	Pass
11ac (VHT80)	CH122	18.66	73.46	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	Verdict
11a	CH149	18.47	70.39	Pass
11a	CH157	18.42	69.58	Pass
11a	CH165	18.65	73.36	Pass
11n (HT20)	CH149	18.35	68.33	Pass
11n (HT20)	CH157	18.33	68.01	Pass
11n (HT20)	CH165	18.58	72.04	Pass
11n (HT40)	CH151	18.69	73.97	Pass
11n (HT40)	CH159	18.72	74.48	Pass
11ac (VHT20)	CH149	18.37	68.64	Pass
11ac (VHT20)	CH157	18.34	68.17	Pass
11ac (VHT20)	CH165	18.63	72.88	Pass
11ac (VHT40)	CH151	18.70	74.14	Pass
11ac (VHT40)	CH159	18.73	74.65	Pass
11ac (VHT80)	CH155	18.56	71.79	Pass

Aux. Antenna:

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH36	18.60	72.52	168	Pass
11a	CH44	18.34	68.31	170	Pass
11a	CH48	18.25	66.91	167	Pass
11n (HT20)	CH36	17.11	51.36	179	Pass
11n (HT20)	CH44	17.25	53.04	178	Pass
11n (HT20)	CH48	17.18	52.19	180	Pass
11n (HT40)	CH38	17.54	56.76	200	Pass
11n (HT40)	CH46	18.32	67.92	200	Pass
11ac (VHT20)	CH36	17.16	51.95	178	Pass
11ac (VHT20)	CH44	17.25	53.04	178	Pass
11ac (HVT20)	CH48	17.15	51.83	180	Pass
11ac (VHT40)	CH38	18.44	69.83	200	Pass
11ac (VHT40)	CH46	18.32	67.92	200	Pass
11ac (VHT80)	CH42	16.96	49.66	200	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH52	18.02	63.46	839	Pass
11a	CH60	18.47	70.39	842	Pass
11a	CH64	18.51	71.04	842	Pass
11n (HT20)	CH52	17.77	59.78	898	Pass
11n (HT20)	CH60	17.49	56.05	898	Pass
11n (HT20)	CH64	17.49	56.05	899	Pass
11n (HT40)	CH54	17.72	59.16	1000	Pass
11n (HT40)	CH62	17.53	56.63	1000	Pass
11ac (VHT20)	CH52	17.78	59.92	899	Pass
11ac (VHT20)	CH60	17.44	55.41	899	Pass
11ac (HVT20)	CH64	17.46	55.67	899	Pass
11ac (VHT40)	CH54	17.66	58.35	1000	Pass
11ac (VHT40)	CH62	17.58	57.28	1000	Pass
11ac (VHT80)	CH58	18.32	67.93	1000	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH100	18.43	69.74	841	Pass
11a	CH116	18.89	77.53	842	Pass
11a	CH140	18.70	74.21	842	Pass
11n (HT20)	CH100	17.64	58.02	896	Pass
11n (HT20)	CH116	18.20	66.01	898	Pass
11n (HT20)	CH140	18.63	72.88	899	Pass
11n (HT40)	CH102	17.82	60.54	1000	Pass
11n (HT40)	CH118	18.13	65.02	1000	Pass
11n (HT40)	CH134	18.67	73.63	1000	Pass
11ac (VHT20)	CH100	17.51	56.31	895	Pass
11ac (VHT20)	CH116	17.71	58.96	897	Pass
11ac (VHT20)	CH140	18.43	69.60	897	Pass
11ac (VHT40)	CH102	17.42	55.21	1000	Pass
11ac (VHT40)	CH118	18.14	65.17	1000	Pass
11ac (VHT40)	CH134	18.34	68.24	1000	Pass
11ac (VHT80)	CH106	18.25	66.84	1000	Pass
11ac (VHT80)	CH122	18.47	70.31	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	Verdict
11a	CH149	20.18	104.35	Pass
11a	CH157	20.15	103.63	Pass
11a	CH165	19.99	99.88	Pass
11n (HT20)	CH149	19.67	92.60	Pass
11n (HT20)	CH157	20.05	101.06	Pass
11n (HT20)	CH165	20.00	99.91	Pass
11n (HT40)	CH151	19.13	81.85	Pass
11n (HT40)	CH159	19.16	82.42	Pass
11ac (VHT20)	CH149	20.25	105.83	Pass
11ac (VHT20)	CH157	20.07	101.53	Pass
11ac (VHT20)	CH165	20.04	100.83	Pass
11ac (VHT40)	CH151	19.10	81.29	Pass
11ac (VHT40)	CH159	19.21	83.37	Pass
11ac (VHT80)	CH155	19.33	85.71	Pass

MIMO

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11n (HT20)	CH36	19.99	99.84	179	Pass
11n (HT20)	CH44	20.11	102.65	178	Pass
11n (HT20)	CH48	19.90	97.65	178	Pass
11n (HT40)	CH38	21.21	132.27	200	Pass
11n (HT40)	CH46	21.47	140.37	200	Pass
11ac (VHT20)	CH36	20.07	101.56	178	Pass
11ac (VHT20)	CH44	20.08	101.97	178	Pass
11ac (HVT20)	CH48	19.93	98.35	179	Pass
11ac (VHT40)	CH38	21.63	145.69	200	Pass
11ac (VHT40)	CH46	21.50	141.38	200	Pass
11ac (VHT80)	CH42	21.08	128.38	200	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11n (HT20)	CH52	21.17	130.84	898	Pass
11n (HT20)	CH60	21.06	127.76	898	Pass
11n (HT20)	CH64	21.01	126.13	899	Pass
11n (HT40)	CH54	21.37	137.15	1000	Pass
11n (HT40)	CH62	21.19	131.62	1000	Pass
11ac (VHT20)	CH52	21.18	131.30	899	Pass
11ac (VHT20)	CH60	21.04	127.12	899	Pass
11ac (HVT20)	CH64	21.03	126.72	899	Pass
11ac (VHT40)	CH54	21.35	136.34	1000	Pass
11ac (VHT40)	CH62	21.24	132.97	1000	Pass
11ac (VHT80)	CH58	21.39	137.76	1000	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11n (HT20)	CH100	21.09	128.59	896	Pass
11n (HT20)	CH116	21.31	135.12	898	Pass
11n (HT20)	CH140	21.55	142.79	896	Pass
11n (HT40)	CH102	21.17	130.85	1000	Pass
11n (HT40)	CH118	21.43	139.15	1000	Pass
11n (HT40)	CH134	21.64	145.91	1000	Pass
11ac (VHT20)	CH100	21.07	128.02	895	Pass
11ac (VHT20)	CH116	21.12	129.53	897	Pass
11ac (VHT20)	CH140	21.49	140.98	897	Pass
11ac (VHT40)	CH102	21.03	126.83	1000	Pass
11ac (VHT40)	CH118	21.47	140.16	1000	Pass
11ac (VHT40)	CH134	21.50	141.19	1000	Pass
11ac (VHT80)	CH106	21.57	143.59	1000	Pass
11ac (VHT80)	CH122	21.58	143.77	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	Verdict
11n (HT20)	CH149	22.07	160.92	Pass
11n (HT20)	CH157	22.28	169.08	Pass
11n (HT20)	CH165	22.35	171.95	Pass
11n (HT40)	CH151	21.93	155.82	Pass
11n (HT40)	CH159	21.96	156.90	Pass
11ac (VHT20)	CH149	22.42	174.47	Pass
11ac (VHT20)	CH157	22.30	169.70	Pass
11ac (VHT20)	CH165	22.40	173.71	Pass
11ac (VHT40)	CH151	21.92	155.42	Pass
11ac (VHT40)	CH159	21.99	158.02	Pass
11ac (VHT80)	CH155	21.97	157.50	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: The Emission Bandwidth & 99% Bandwidth, please refer to the Report No. SUHR/2021/B001004 which issued by SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd on Apr. 02, 2022. Chapters Appendix.

A.3 6 dB Bandwidth

Note: The 6 dB Bandwidth, please refer to the Report No. SUHR/2021/B001004 which issued by SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd on Apr. 02, 2022. Chapters Appendix.

A.4 Power Spectral Density

Note: The Power Spectral Density, please refer to the Report No. SUHR/2021/B001004 which issued by SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd on Apr. 02, 2022. Chapters Appendix.

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.

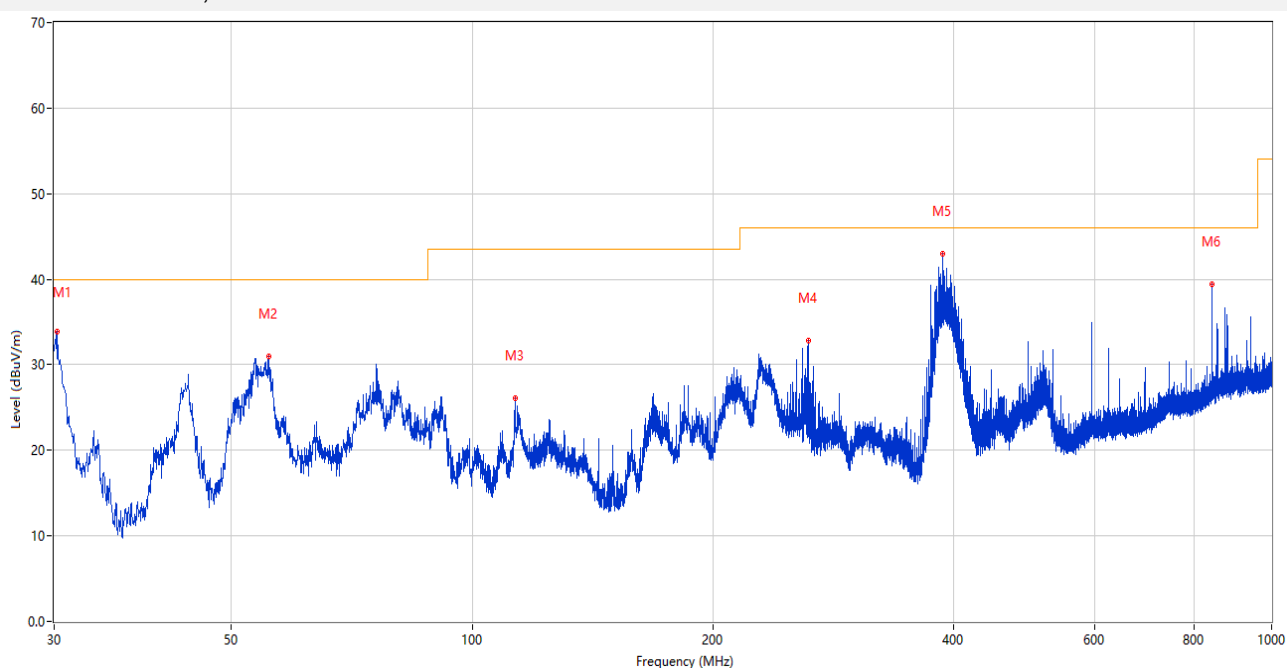
Note 2: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.

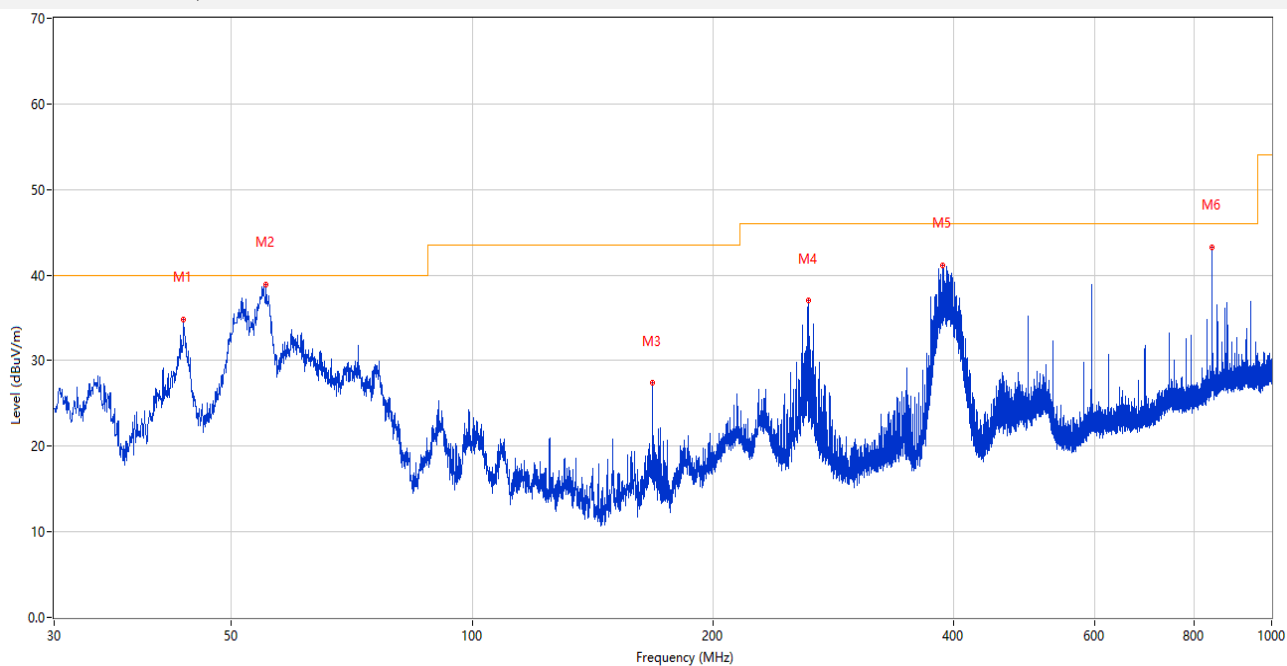
Note 5: For Multiple transmitter output, the quantity $10 \log (NANT)$ dB is added to each spectrum value before comparing to the emission limit. When testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding $10 \log (NANT)$ if the measurements are made relative to the in-band emissions on the individual outputs.

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	30.242	33.83	-28.93	40.0	6.17	Peak	292.00	200	Horizontal	Pass
2	55.657	30.93	-25.16	40.0	9.07	Peak	286.00	200	Horizontal	Pass
3	113.080	26.07	-26.98	43.5	17.43	Peak	316.00	200	Horizontal	Pass
4	263.139	32.79	-24.13	46.0	13.21	Peak	95.00	100	Horizontal	Pass
5	388.124	42.93	-20.66	46.0	3.07	Peak	94.00	200	Horizontal	Pass
6	843.054	39.40	-10.58	46.0	6.60	Peak	247.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



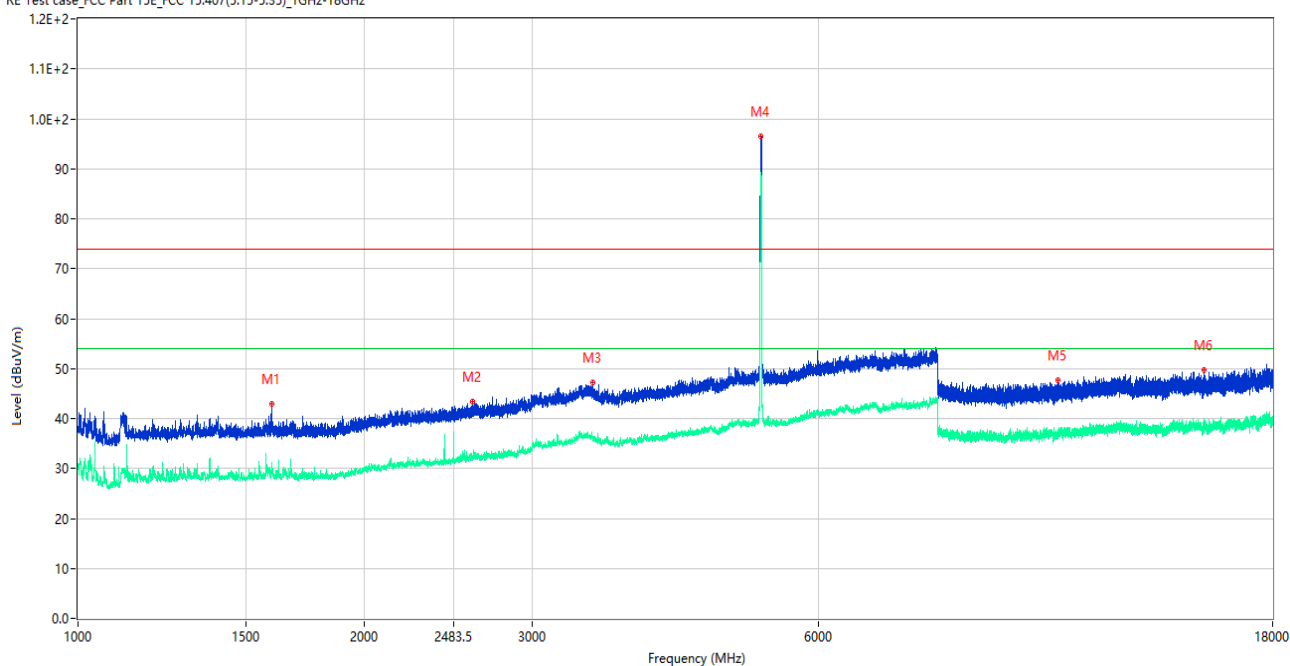
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.580	34.78	-25.00	40.0	5.22	Peak	125.00	100	Vertical	Pass
2	55.172	38.94	-25.09	40.0	1.06	Peak	359.00	100	Vertical	Pass
3	168.225	27.36	-28.44	43.5	16.14	Peak	198.00	200	Vertical	Pass
4	263.091	36.98	-24.12	46.0	9.02	Peak	174.00	100	Vertical	Pass
5	388.221	41.15	-20.67	46.0	4.85	Peak	289.00	100	Vertical	Pass
6	842.957	43.25	-10.58	46.0	2.75	Peak	198.00	100	Vertical	Pass

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

Main Antenna:

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

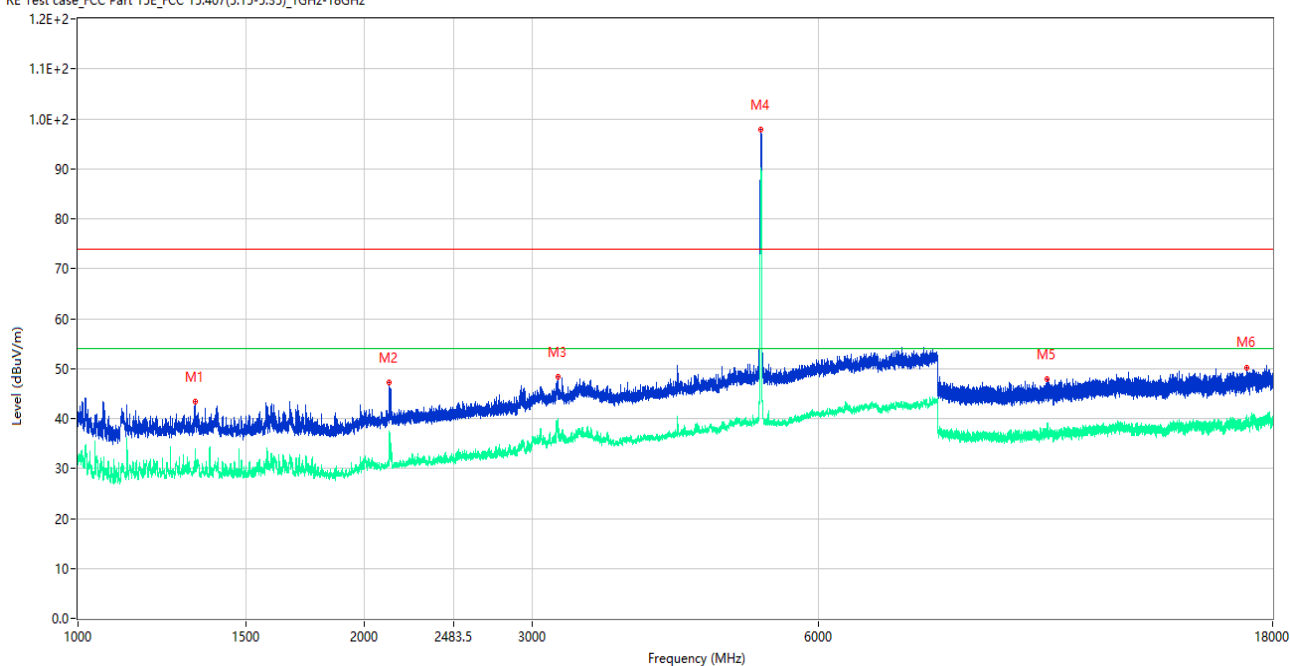
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1599.750	42.99	-16.24	74.0	31.01	Peak	126.00	150	Horizontal	Pass
1**	1599.750	30.26	-16.24	54.0	23.74	AV	126.00	150	Horizontal	Pass
2	2599.750	43.38	-11.32	74.0	30.62	Peak	42.00	150	Horizontal	Pass
2**	2599.750	32.20	-11.32	54.0	21.80	AV	42.00	150	Horizontal	Pass
3	3479.000	47.18	-6.27	74.0	26.82	Peak	297.00	150	Horizontal	Pass
3**	3479.000	36.05	-6.27	54.0	17.95	AV	297.00	150	Horizontal	Pass
4	5218.500	96.42	-2.37	74.0	-22.42	Peak	335.00	150	Horizontal	N/A
4**	5218.500	87.79	-2.37	54.0	-33.79	AV	335.00	150	Horizontal	N/A
5	10719.612	47.63	-3.87	74.0	26.37	Peak	23.00	150	Horizontal	Pass
5**	10719.612	36.68	-3.87	54.0	17.32	AV	23.00	150	Horizontal	Pass
6	15261.862	49.76	-1.08	74.0	24.24	Peak	218.00	150	Horizontal	Pass
6**	15261.862	38.96	-1.08	54.0	15.04	AV	218.00	150	Horizontal	Pass

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

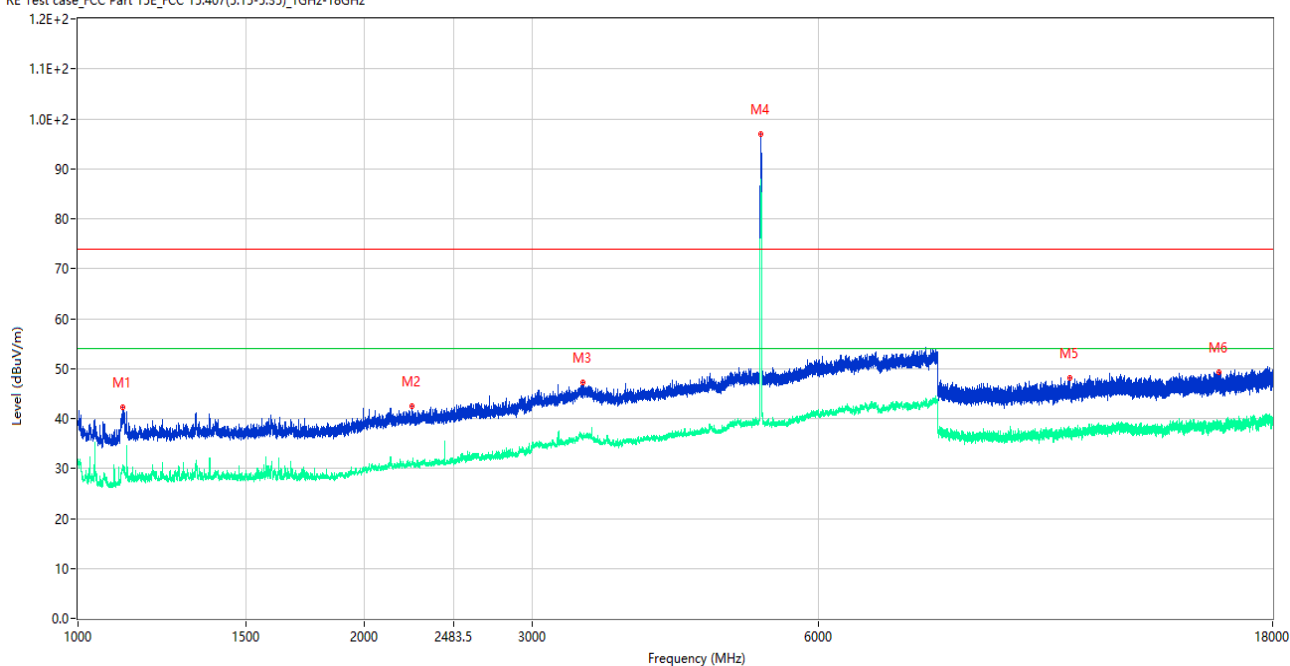
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.250	43.30	-15.91	74.0	30.70	Peak	141.00	150	Vertical	Pass
1**	1327.250	32.65	-15.91	54.0	21.35	AV	141.00	150	Vertical	Pass
2	2124.500	47.17	-13.28	74.0	26.83	Peak	136.00	150	Vertical	Pass
2**	2124.500	37.18	-13.28	54.0	16.82	AV	136.00	150	Vertical	Pass
3	3192.500	48.40	-7.70	74.0	25.60	Peak	148.00	150	Vertical	Pass
3**	3192.500	37.57	-7.70	54.0	16.43	AV	148.00	150	Vertical	Pass
4	5219.000	97.80	-2.36	74.0	-23.80	Peak	256.00	150	Vertical	N/A
4**	5219.000	89.66	-2.36	54.0	-35.66	AV	256.00	150	Vertical	N/A
5	10437.937	47.92	-3.35	74.0	26.08	Peak	75.00	150	Vertical	Pass
5**	10437.937	38.43	-3.35	54.0	15.57	AV	75.00	150	Vertical	Pass
6	16895.137	50.26	-0.49	74.0	23.74	Peak	251.00	150	Vertical	Pass
6**	16895.137	39.83	-0.49	54.0	14.17	AV	251.00	150	Vertical	Pass

11ac20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

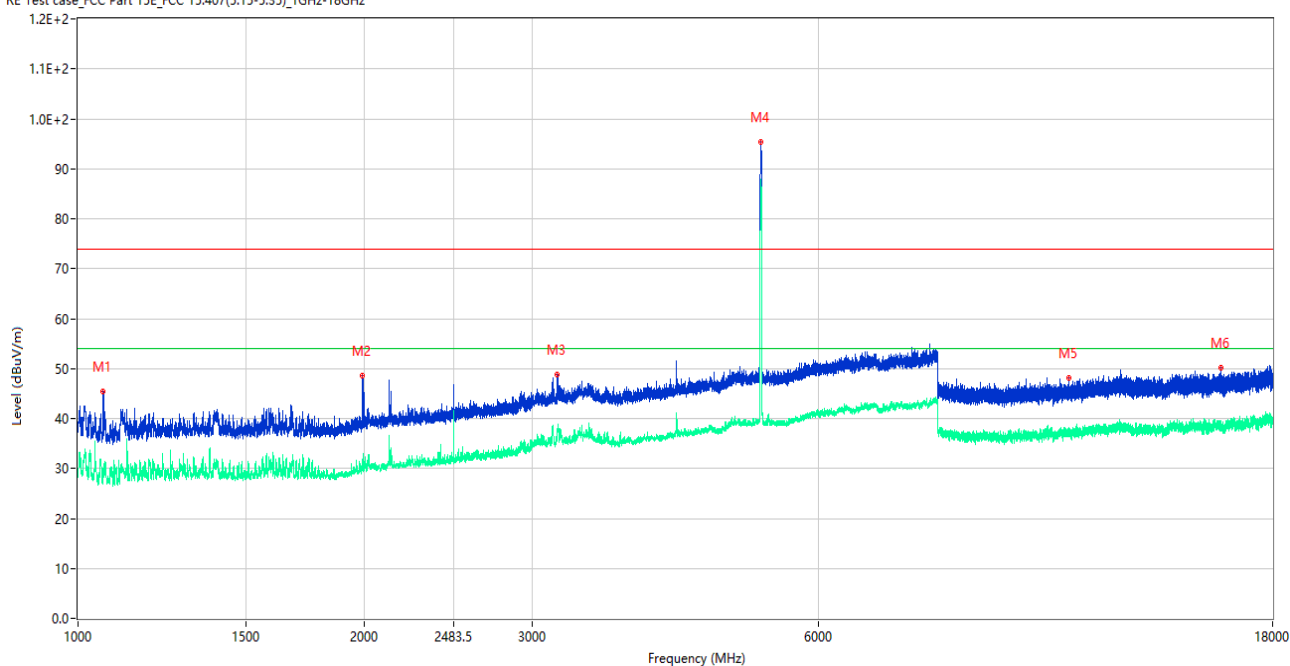
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1115.500	42.19	-15.78	74.0	31.81	Peak	236.00	150	Horizontal	Pass
1**	1115.500	30.40	-15.78	54.0	23.60	AV	236.00	150	Horizontal	Pass
2	2243.750	42.42	-12.91	74.0	31.58	Peak	14.00	150	Horizontal	Pass
2**	2243.750	31.49	-12.91	54.0	22.51	AV	14.00	150	Horizontal	Pass
3	3396.500	47.28	-5.83	74.0	26.72	Peak	344.00	150	Horizontal	Pass
3**	3396.500	36.36	-5.83	54.0	17.64	AV	344.00	150	Horizontal	Pass
4	5218.500	96.86	-2.37	74.0	-22.86	Peak	327.00	150	Horizontal	N/A
4**	5218.500	87.15	-2.37	54.0	-33.15	AV	327.00	150	Horizontal	N/A
5	11023.849	48.16	-3.03	74.0	25.84	Peak	240.00	150	Horizontal	Pass
5**	11023.849	36.77	-3.03	54.0	17.23	AV	240.00	150	Horizontal	Pass
6	15796.838	49.26	-1.60	74.0	24.74	Peak	360.00	150	Horizontal	Pass
6**	15796.838	38.61	-1.60	54.0	15.39	AV	360.00	150	Horizontal	Pass

11ac20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

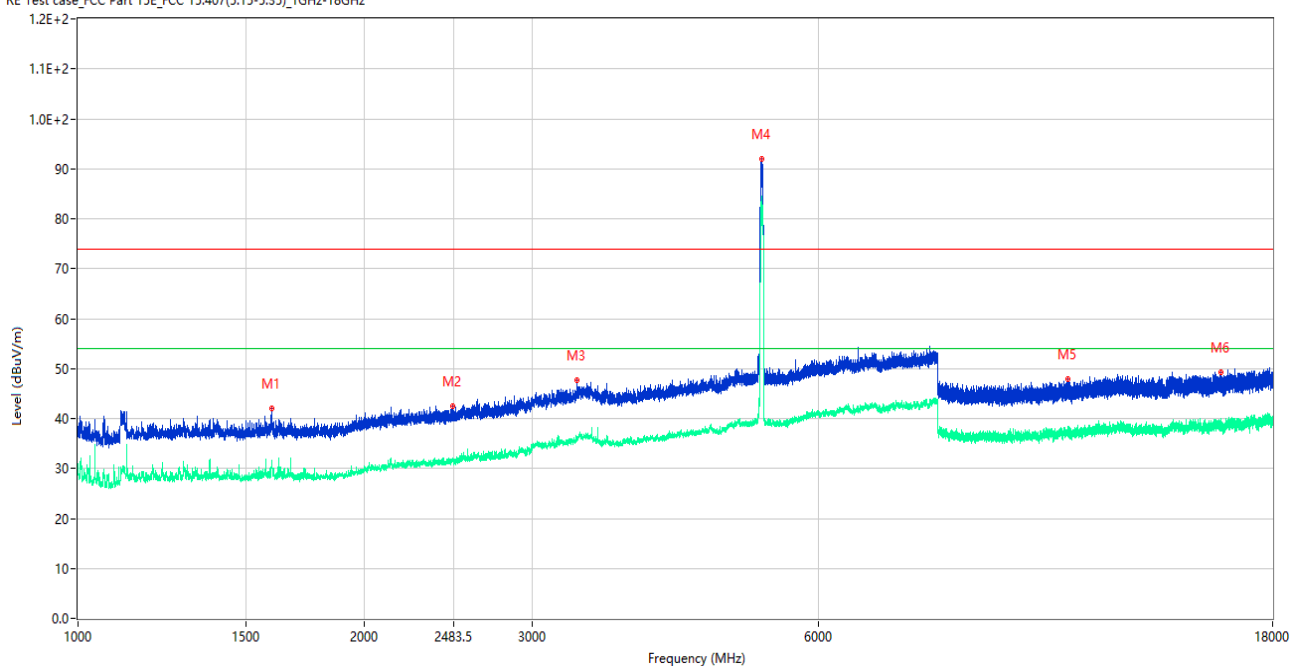
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1061.750	45.48	-15.26	74.0	28.52	Peak	133.00	150	Vertical	Pass
1**	1061.750	28.35	-15.26	54.0	25.65	AV	133.00	150	Vertical	Pass
2	1991.500	48.50	-14.69	74.0	25.50	Peak	160.00	150	Vertical	Pass
2**	1991.500	30.70	-14.69	54.0	23.30	AV	160.00	150	Vertical	Pass
3	3190.000	48.81	-7.62	74.0	25.19	Peak	167.00	150	Vertical	Pass
3**	3190.000	37.06	-7.62	54.0	16.94	AV	167.00	150	Vertical	Pass
4	5218.500	95.37	-2.37	74.0	-21.37	Peak	255.00	150	Vertical	N/A
4**	5218.500	87.19	-2.37	54.0	-33.19	AV	255.00	150	Vertical	N/A
5	10998.674	48.09	-2.74	74.0	25.91	Peak	354.00	150	Vertical	Pass
5**	10998.674	37.49	-2.74	54.0	16.51	AV	354.00	150	Vertical	Pass
6	15883.725	50.15	-1.45	74.0	23.85	Peak	360.00	150	Vertical	Pass
6**	15883.725	39.04	-1.45	54.0	14.96	AV	360.00	150	Vertical	Pass

11ac40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

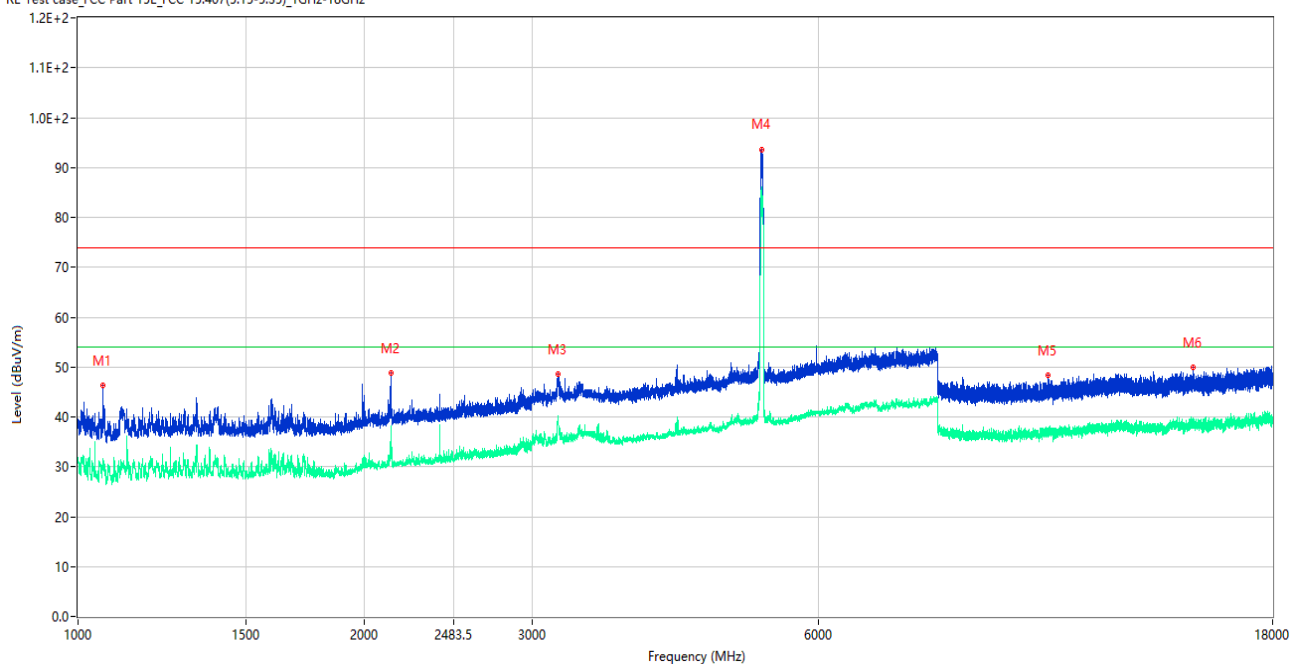
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1596.500	41.99	-16.23	74.0	32.01	Peak	78.00	150	Horizontal	Pass
1**	1596.500	31.07	-16.23	54.0	22.93	AV	78.00	150	Horizontal	Pass
2	2475.000	42.56	-11.05	74.0	31.44	Peak	286.00	150	Horizontal	Pass
2**	2475.000	31.56	-11.05	54.0	22.44	AV	286.00	150	Horizontal	Pass
3	3346.500	47.73	-6.23	74.0	26.27	Peak	0.00	150	Horizontal	Pass
3**	3346.500	35.70	-6.23	54.0	18.30	AV	0.00	150	Horizontal	Pass
4	5233.000	91.91	-2.33	74.0	-17.91	Peak	326.00	150	Horizontal	N/A
4**	5233.000	83.20	-2.33	54.0	-29.20	AV	326.00	150	Horizontal	N/A
5	10976.825	47.85	-3.41	74.0	26.15	Peak	0.00	150	Horizontal	Pass
5**	10976.825	37.14	-3.41	54.0	16.86	AV	0.00	150	Horizontal	Pass
6	15887.662	49.17	-1.48	74.0	24.83	Peak	260.00	150	Horizontal	Pass
6**	15887.662	38.44	-1.48	54.0	15.56	AV	260.00	150	Horizontal	Pass

11ac40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

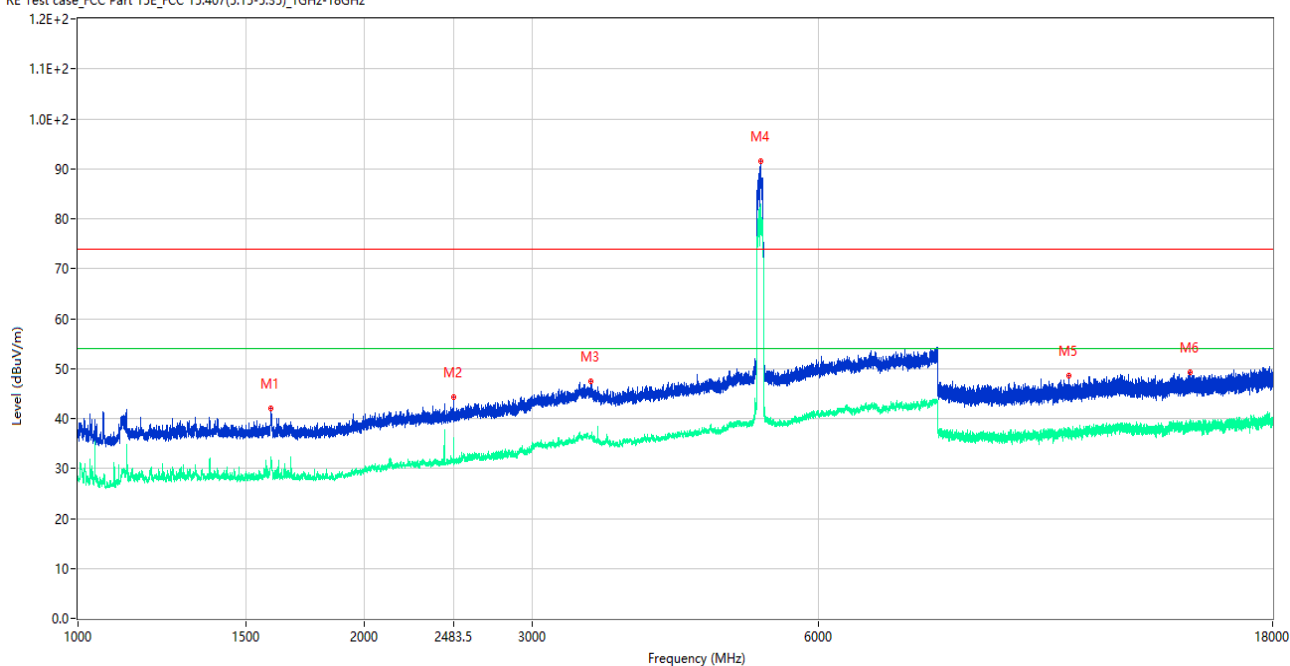
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.000	46.32	-15.24	74.0	27.68	Peak	149.00	150	Vertical	Pass
1**	1063.000	31.55	-15.24	54.0	22.45	AV	149.00	150	Vertical	Pass
2	2132.250	48.79	-13.36	74.0	25.21	Peak	125.00	150	Vertical	Pass
2**	2132.250	35.75	-13.36	54.0	18.25	AV	125.00	150	Vertical	Pass
3	3193.500	48.66	-7.69	74.0	25.34	Peak	148.00	150	Vertical	Pass
3**	3193.500	39.50	-7.69	54.0	14.50	AV	148.00	150	Vertical	Pass
4	5226.500	93.65	-2.32	74.0	-19.65	Peak	228.00	150	Vertical	N/A
4**	5226.500	85.70	-2.32	54.0	-31.70	AV	228.00	150	Vertical	N/A
5	10446.488	48.44	-3.31	74.0	25.56	Peak	70.00	150	Vertical	Pass
5**	10446.488	37.23	-3.31	54.0	16.77	AV	70.00	150	Vertical	Pass
6	14835.562	49.91	-0.31	74.0	24.09	Peak	319.00	150	Vertical	Pass
6**	14835.562	38.78	-0.31	54.0	15.22	AV	319.00	150	Vertical	Pass

11ac80, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

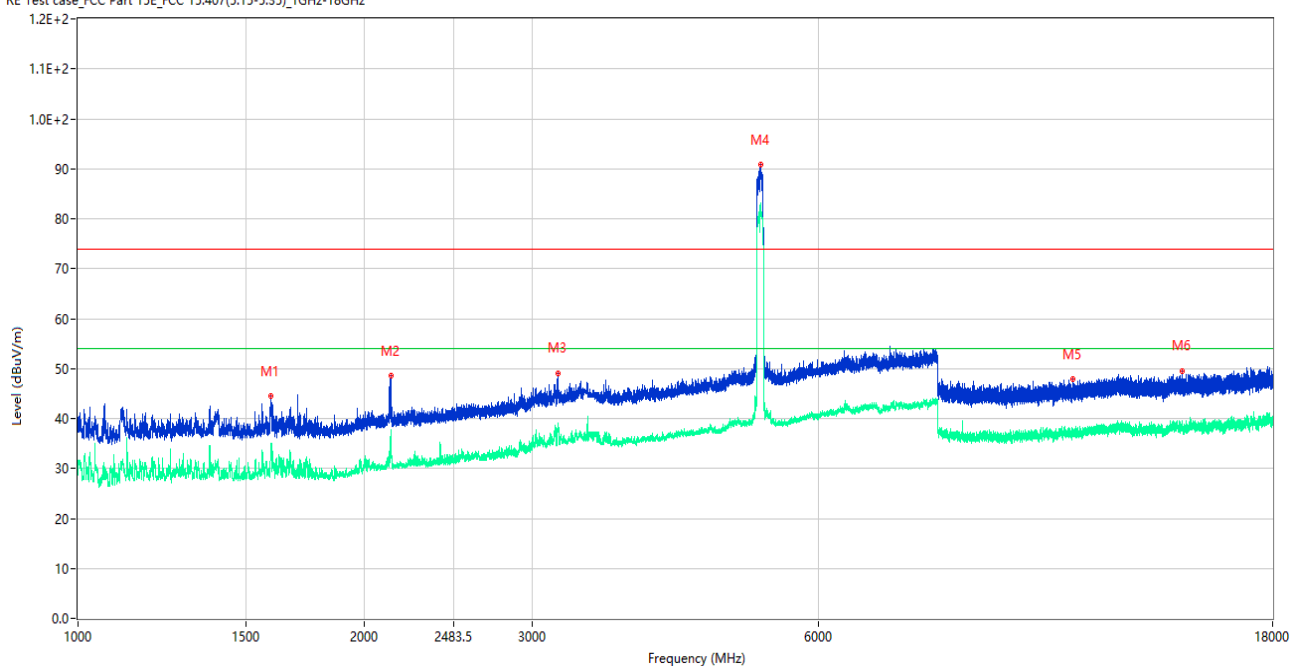
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1594.500	42.08	-16.23	74.0	31.92	Peak	114.00	150	Horizontal	Pass
1**	1594.500	31.25	-16.23	54.0	22.75	AV	114.00	150	Horizontal	Pass
2	2479.500	44.31	-11.20	74.0	29.69	Peak	6.00	150	Horizontal	Pass
2**	2479.500	36.20	-11.20	54.0	17.80	AV	6.00	150	Horizontal	Pass
3	3454.500	47.45	-4.92	74.0	26.55	Peak	300.00	150	Horizontal	Pass
3**	3454.500	36.07	-4.92	54.0	17.93	AV	300.00	150	Horizontal	Pass
4	5216.500	91.43	-2.33	74.0	-17.43	Peak	328.00	150	Horizontal	N/A
4**	5216.500	82.42	-2.33	54.0	-28.42	AV	328.00	150	Horizontal	N/A
5	11001.525	48.59	-2.77	74.0	25.41	Peak	147.00	150	Horizontal	Pass
5**	11001.525	38.19	-2.77	54.0	15.81	AV	147.00	150	Horizontal	Pass
6	14726.887	49.29	-1.49	74.0	24.71	Peak	284.00	150	Horizontal	Pass
6**	14726.887	39.45	-1.49	54.0	14.55	AV	284.00	150	Horizontal	Pass

11ac80, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

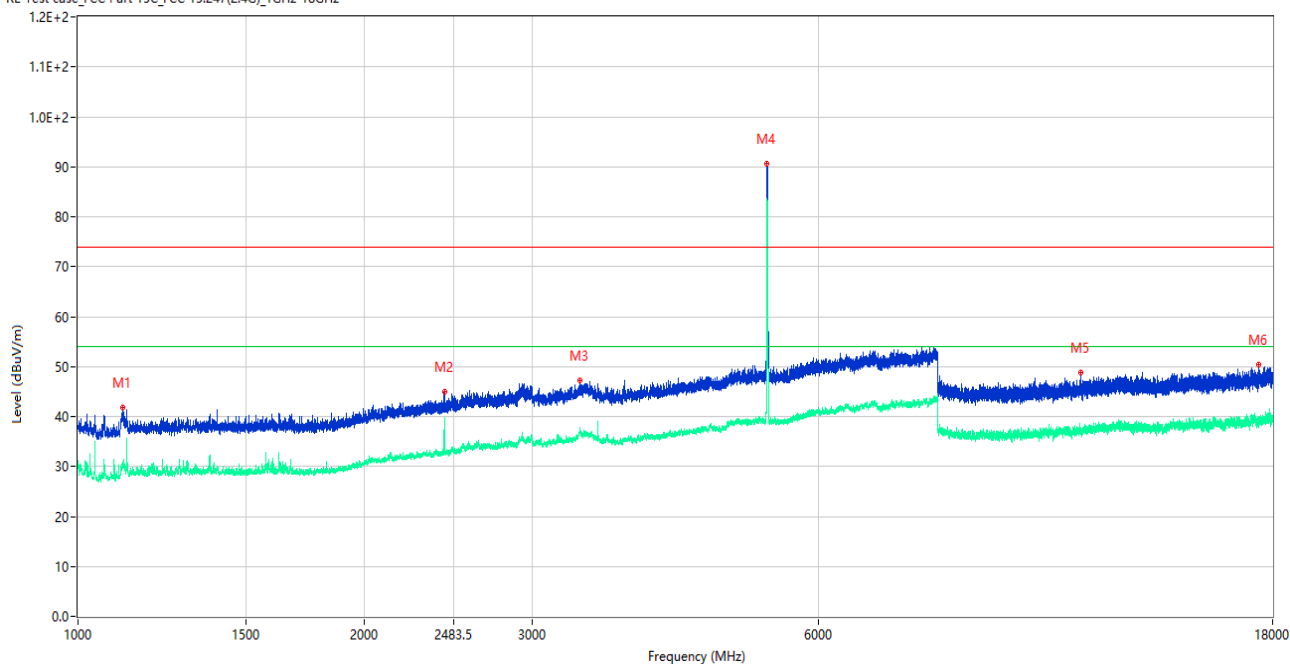
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1593.000	44.56	-16.21	74.0	29.44	Peak	117.00	150	Vertical	Pass
1**	1593.000	33.06	-16.21	54.0	20.94	AV	117.00	150	Vertical	Pass
2	2132.500	48.65	-13.37	74.0	25.35	Peak	142.00	150	Vertical	Pass
2**	2132.500	34.96	-13.37	54.0	19.04	AV	142.00	150	Vertical	Pass
3	3192.000	49.08	-7.69	74.0	24.92	Peak	148.00	150	Vertical	Pass
3**	3192.000	38.25	-7.69	54.0	15.75	AV	148.00	150	Vertical	Pass
4	5221.000	90.86	-2.36	74.0	-16.86	Peak	228.00	150	Vertical	N/A
4**	5221.000	82.60	-2.36	54.0	-28.60	AV	228.00	150	Vertical	N/A
5	11110.776	47.82	-3.94	74.0	26.18	Peak	11.00	150	Vertical	Pass
5**	11110.776	37.33	-3.94	54.0	16.67	AV	11.00	150	Vertical	Pass
6	14460.713	49.59	-2.70	74.0	24.41	Peak	149.00	150	Vertical	Pass
6**	14460.713	38.42	-2.70	54.0	15.58	AV	149.00	150	Vertical	Pass

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

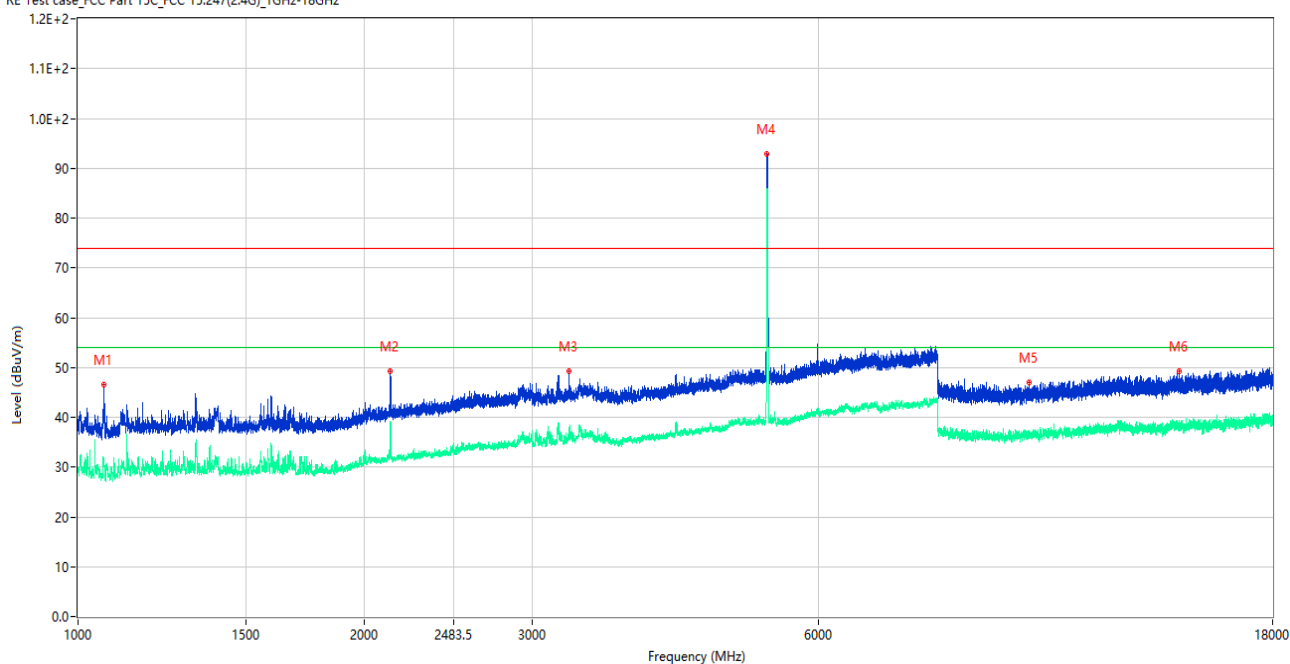
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1115.500	41.82	-15.78	74.0	32.18	Peak	174.00	150	Horizontal	Pass
1**	1115.500	30.51	-15.78	54.0	23.49	AV	174.00	150	Horizontal	Pass
2	2425.750	44.95	-12.28	74.0	29.05	Peak	286.00	150	Horizontal	Pass
2**	2425.750	38.54	-12.28	54.0	15.46	AV	286.00	150	Horizontal	Pass
3	3369.000	47.17	-4.90	74.0	26.83	Peak	236.00	150	Horizontal	Pass
3**	3369.000	37.06	-4.90	54.0	16.94	AV	236.00	150	Horizontal	Pass
4	5299.000	90.53	-2.01	74.0	-16.53	Peak	307.00	150	Horizontal	N/A
4**	5299.000	82.82	-2.01	54.0	-28.82	AV	307.00	150	Horizontal	N/A
5	11317.500	48.72	-3.94	74.0	25.28	Peak	360.00	150	Horizontal	Pass
5**	11317.500	37.56	-3.94	54.0	16.44	AV	360.00	150	Horizontal	Pass
6	17414.500	50.30	0.15	74.0	23.70	Peak	360.00	150	Horizontal	Pass
6**	17414.500	39.04	0.15	54.0	14.96	AV	360.00	150	Horizontal	Pass

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

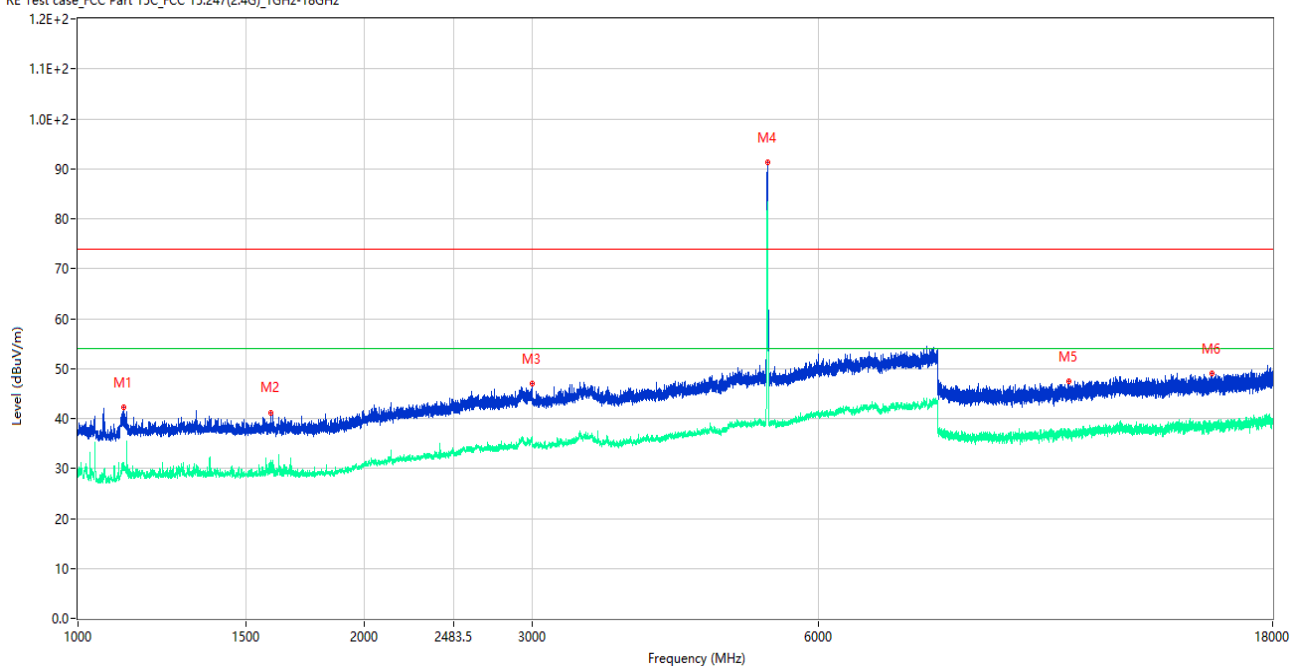
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.000	46.49	-15.22	74.0	27.51	Peak	170.00	150	Vertical	Pass
1**	1064.000	31.24	-15.22	54.0	22.76	AV	170.00	150	Vertical	Pass
2	2129.000	49.28	-13.26	74.0	24.72	Peak	135.00	150	Vertical	Pass
2**	2129.000	38.99	-13.26	54.0	15.01	AV	135.00	150	Vertical	Pass
3	3284.000	49.34	-6.85	74.0	24.66	Peak	154.00	150	Vertical	Pass
3**	3284.000	37.61	-6.85	54.0	16.39	AV	154.00	150	Vertical	Pass
4	5298.000	92.90	-2.04	74.0	-18.90	Peak	292.00	150	Vertical	N/A
4**	5298.000	84.89	-2.04	54.0	-30.89	AV	292.00	150	Vertical	N/A
5	9976.500	47.08	-3.74	74.0	26.92	Peak	327.00	150	Vertical	Pass
5**	9976.500	37.08	-3.74	54.0	16.92	AV	327.00	150	Vertical	Pass
6	14371.500	49.23	-1.50	74.0	24.77	Peak	0.00	150	Vertical	Pass
6**	14371.500	39.35	-1.50	54.0	14.65	AV	0.00	150	Vertical	Pass

11ac20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

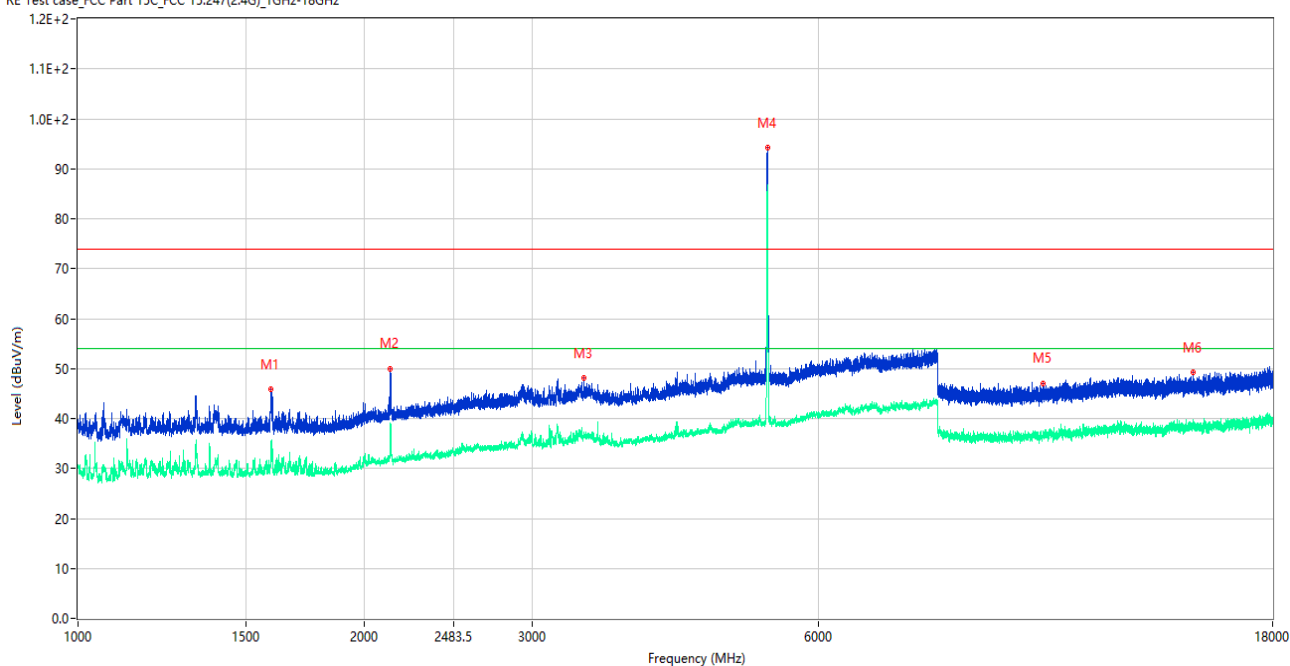
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1116.000	42.31	-15.78	74.0	31.69	Peak	173.00	150	Horizontal	Pass
1**	1116.000	30.22	-15.78	54.0	23.78	AV	173.00	150	Horizontal	Pass
2	1594.500	41.23	-16.23	74.0	32.77	Peak	87.00	150	Horizontal	Pass
2**	1594.500	29.34	-16.23	54.0	24.66	AV	87.00	150	Horizontal	Pass
3	2999.500	46.96	-8.74	74.0	27.04	Peak	3.00	150	Horizontal	Pass
3**	2999.500	35.91	-8.74	54.0	18.09	AV	3.00	150	Horizontal	Pass
4	5305.500	91.31	-2.02	74.0	-17.31	Peak	301.00	150	Horizontal	N/A
4**	5305.500	82.93	-2.02	54.0	-28.93	AV	301.00	150	Horizontal	N/A
5	10994.000	47.46	-2.86	74.0	26.54	Peak	209.00	150	Horizontal	Pass
5**	10994.000	36.95	-2.86	54.0	17.05	AV	209.00	150	Horizontal	Pass
6	15557.000	49.07	-2.70	74.0	24.93	Peak	180.00	150	Horizontal	Pass
6**	15557.000	38.15	-2.70	54.0	15.85	AV	180.00	150	Horizontal	Pass

11ac20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

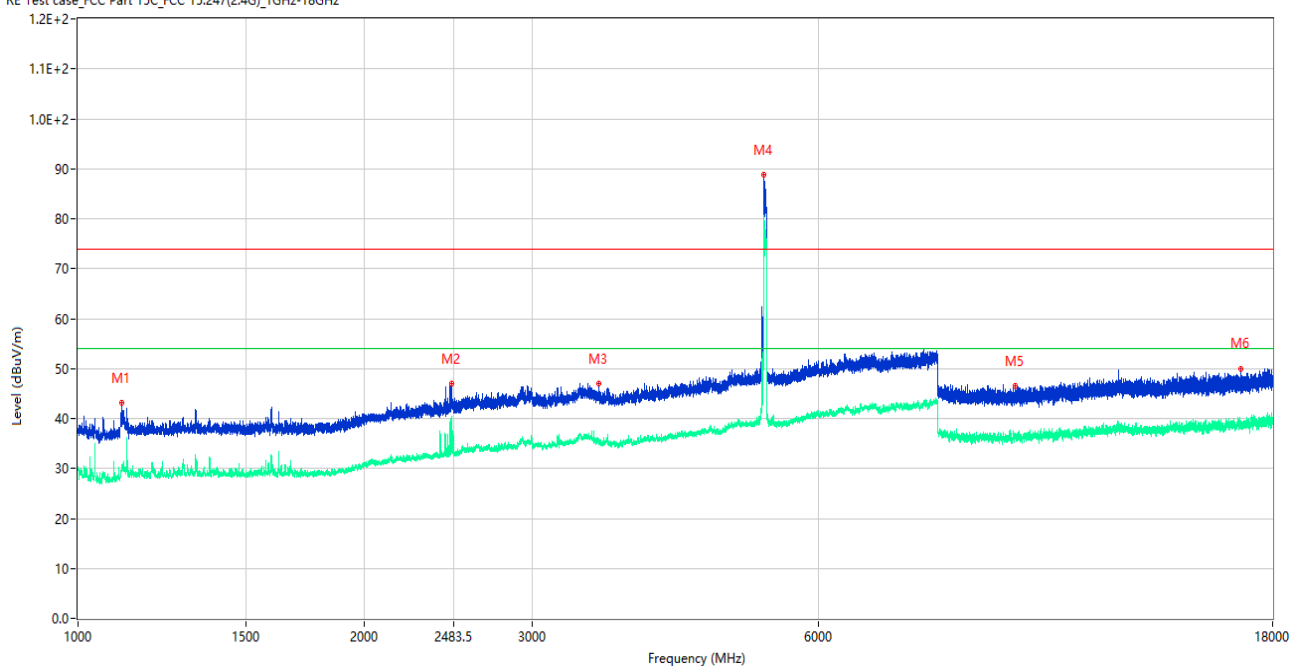
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1593.000	45.93	-16.21	74.0	28.07	Peak	153.00	150	Vertical	Pass
1**	1593.000	34.11	-16.21	54.0	19.89	AV	153.00	150	Vertical	Pass
2	2127.500	50.05	-13.26	74.0	23.95	Peak	130.00	150	Vertical	Pass
2**	2127.500	35.22	-13.26	54.0	18.78	AV	130.00	150	Vertical	Pass
3	3399.000	48.03	-5.71	74.0	25.97	Peak	337.00	150	Vertical	Pass
3**	3399.000	36.70	-5.71	54.0	17.30	AV	337.00	150	Vertical	Pass
4	5303.500	94.22	-2.02	74.0	-20.22	Peak	327.00	150	Vertical	N/A
4**	5303.500	86.47	-2.02	54.0	-32.47	AV	327.00	150	Vertical	N/A
5	10330.000	47.09	-3.17	74.0	26.91	Peak	350.00	150	Vertical	Pass
5**	10330.000	36.33	-3.17	54.0	17.67	AV	350.00	150	Vertical	Pass
6	14852.000	49.16	-0.74	74.0	24.84	Peak	292.00	150	Vertical	Pass
6**	14852.000	38.24	-0.74	54.0	15.76	AV	292.00	150	Vertical	Pass

11ac40, U-NII-2A, 1 GHz to 18 GHz, High Channel, ANT H

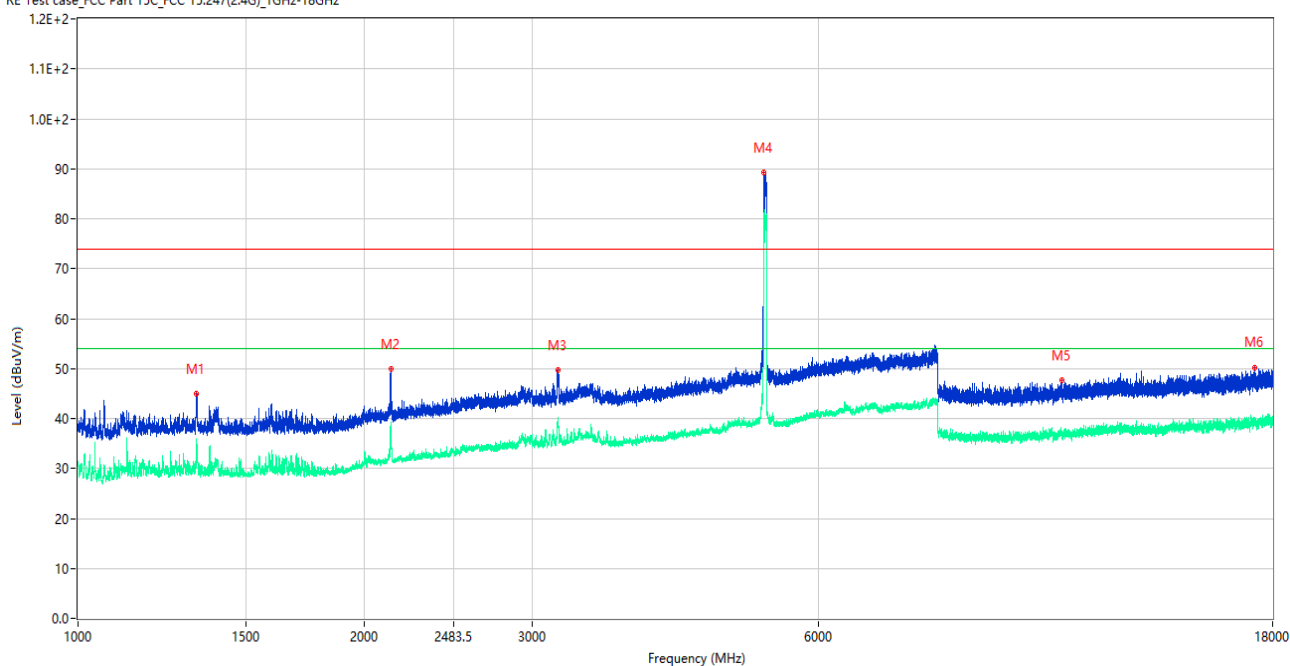
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1111.250	43.18	-15.77	74.0	30.82	Peak	173.00	150	Horizontal	Pass
1**	1111.250	29.97	-15.77	54.0	24.03	AV	173.00	150	Horizontal	Pass
2	2470.500	47.04	-11.15	74.0	26.96	Peak	70.00	150	Horizontal	Pass
2**	2470.500	39.92	-11.15	54.0	14.08	AV	70.00	150	Horizontal	Pass
3	3526.500	46.95	-6.27	74.0	27.05	Peak	78.00	150	Horizontal	Pass
3**	3526.500	35.14	-6.27	54.0	18.86	AV	78.00	150	Horizontal	Pass
4	5259.000	88.81	-2.12	74.0	-14.81	Peak	258.00	150	Horizontal	N/A
4**	5259.000	80.62	-2.12	54.0	-26.62	AV	258.00	150	Horizontal	N/A
5	9662.000	46.65	-3.13	74.0	27.35	Peak	149.00	150	Horizontal	Pass
5**	9662.000	36.71	-3.13	54.0	17.29	AV	149.00	150	Horizontal	Pass
6	16649.500	50.04	-1.44	74.0	23.96	Peak	118.00	150	Horizontal	Pass
6**	16649.500	38.87	-1.44	54.0	15.13	AV	118.00	150	Horizontal	Pass

11ac40, U-NII-2A, 1 GHz to 18 GHz, High Channel, ANT V

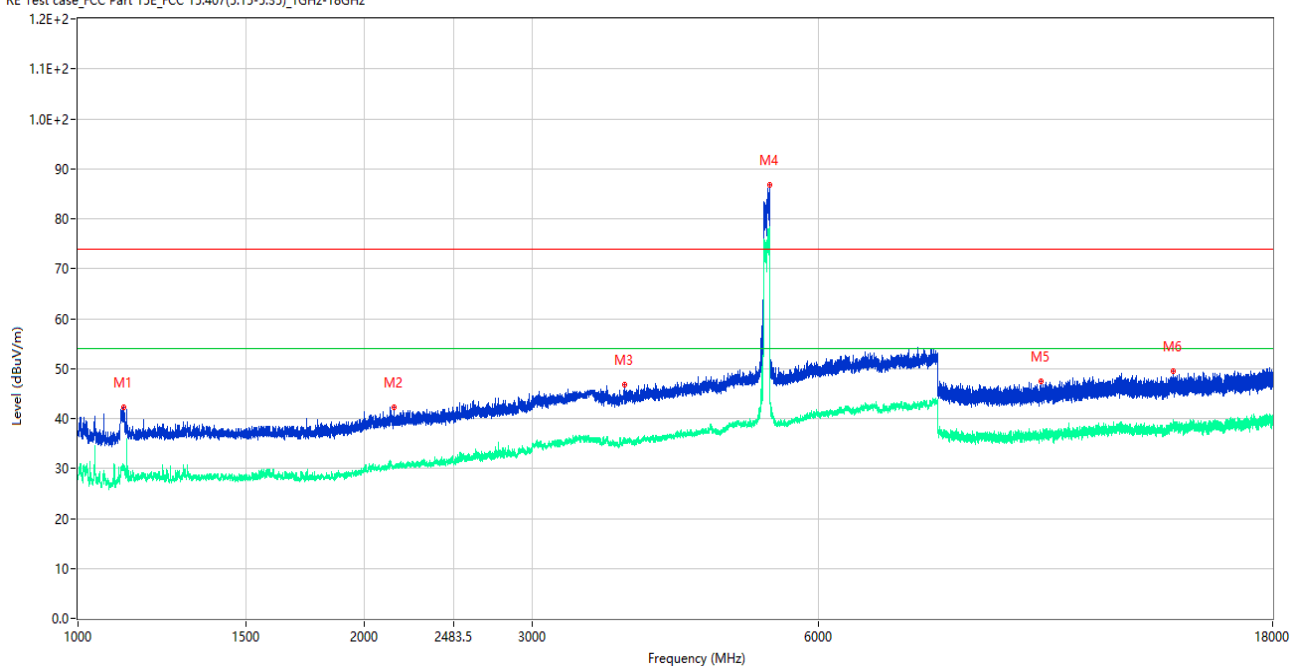
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.250	45.03	-16.00	74.0	28.97	Peak	137.00	150	Vertical	Pass
1**	1332.250	34.02	-16.00	54.0	19.98	AV	137.00	150	Vertical	Pass
2	2132.500	49.85	-13.37	74.0	24.15	Peak	137.00	150	Vertical	Pass
2**	2132.500	39.16	-13.37	54.0	14.84	AV	137.00	150	Vertical	Pass
3	3191.000	49.79	-7.65	74.0	24.21	Peak	154.00	150	Vertical	Pass
3**	3191.000	39.48	-7.65	54.0	14.52	AV	154.00	150	Vertical	Pass
4	5258.500	89.34	-2.10	74.0	-15.34	Peak	223.00	150	Vertical	N/A
4**	5258.500	81.24	-2.10	54.0	-27.24	AV	223.00	150	Vertical	N/A
5	10802.000	47.65	-3.28	74.0	26.35	Peak	360.00	150	Vertical	Pass
5**	10802.000	36.87	-3.28	54.0	17.13	AV	360.00	150	Vertical	Pass
6	17226.000	50.15	-0.62	74.0	23.85	Peak	271.00	150	Vertical	Pass
6**	17226.000	39.91	-0.62	54.0	14.09	AV	271.00	150	Vertical	Pass

11ac80, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

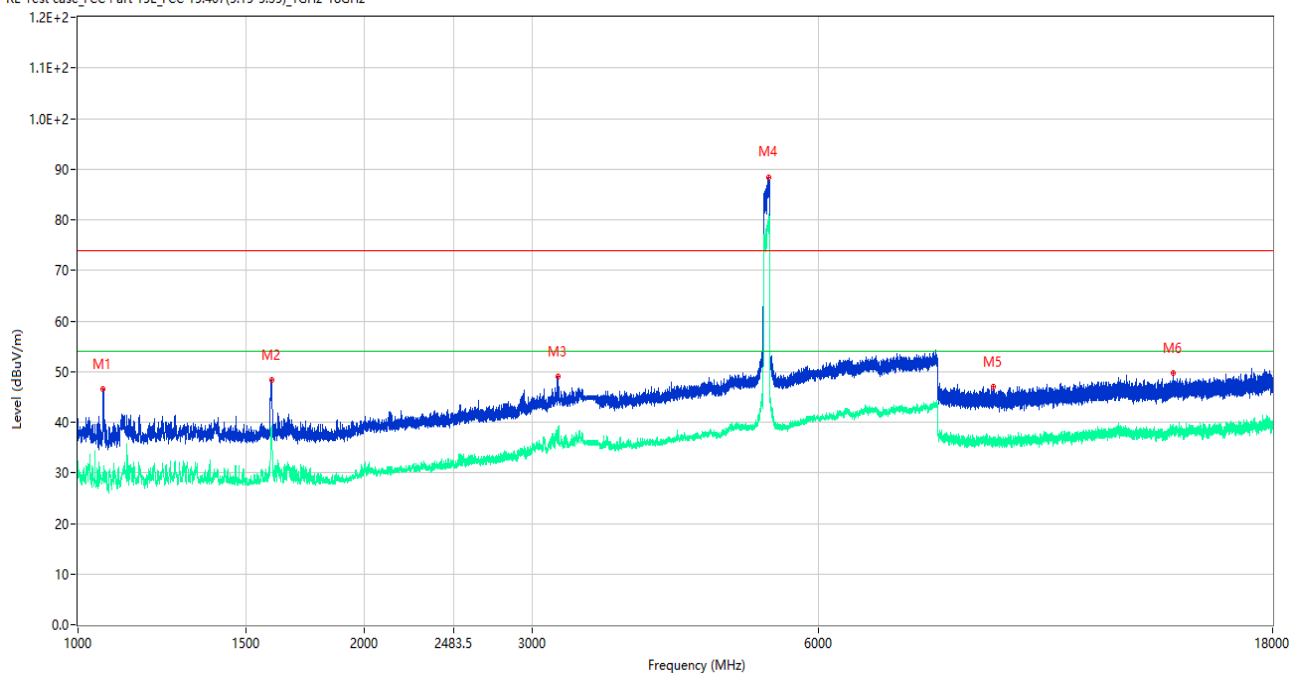
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1117.750	42.19	-15.81	74.0	31.81	Peak	160.00	150	Horizontal	Pass
1**	1117.750	30.39	-15.81	54.0	23.61	AV	160.00	150	Horizontal	Pass
2	2148.250	42.32	-13.71	74.0	31.68	Peak	341.00	150	Horizontal	Pass
2**	2148.250	30.18	-13.71	54.0	23.82	AV	341.00	150	Horizontal	Pass
3	3750.500	46.74	-4.72	74.0	27.26	Peak	149.00	150	Horizontal	Pass
3**	3750.500	35.27	-4.72	54.0	18.73	AV	149.00	150	Horizontal	Pass
4	5327.500	86.75	-2.48	74.0	-12.75	Peak	288.00	150	Horizontal	N/A
4**	5327.500	78.28	-2.48	54.0	-24.28	AV	288.00	150	Horizontal	N/A
5	10268.125	47.43	-2.97	74.0	26.57	Peak	360.00	150	Horizontal	Pass
5**	10268.125	36.84	-2.97	54.0	17.16	AV	360.00	150	Horizontal	Pass
6	14161.724	49.42	-1.71	74.0	24.58	Peak	0.00	150	Horizontal	Pass
6**	14161.724	37.86	-1.71	54.0	16.14	AV	0.00	150	Horizontal	Pass

11ac80, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

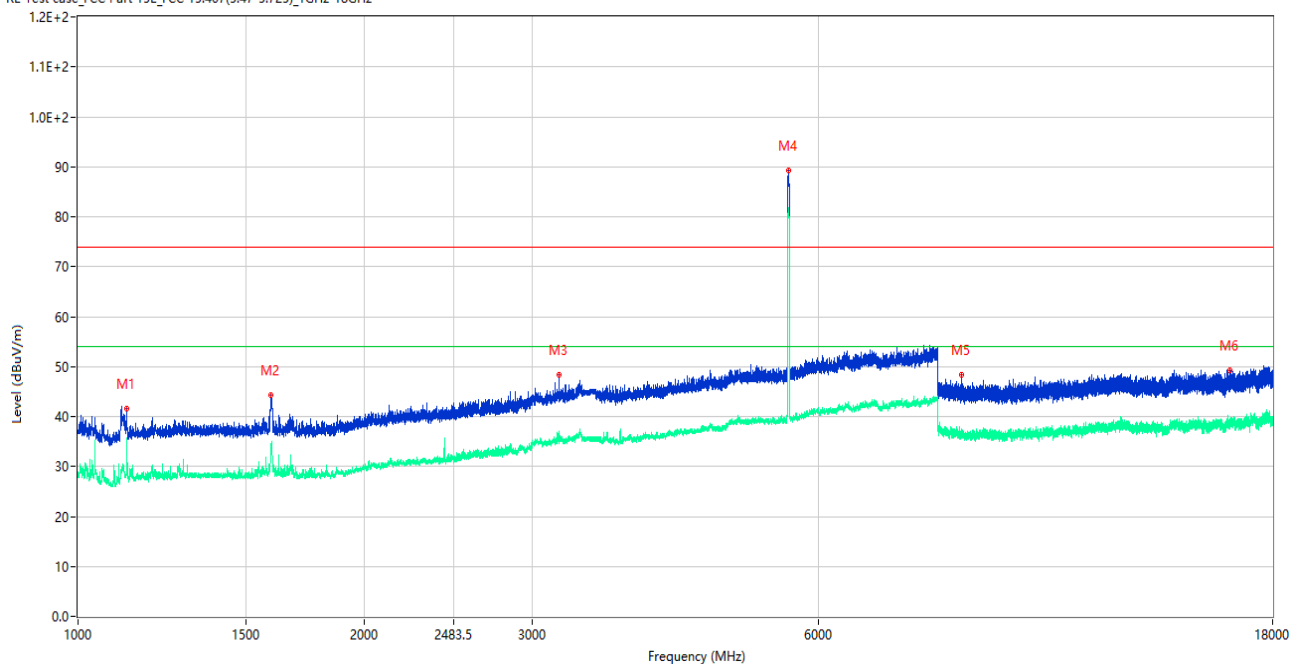
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.000	46.58	-15.24	74.0	27.42	Peak	133.00	150	Vertical	Pass
1**	1063.000	29.20	-15.24	54.0	24.80	AV	133.00	150	Vertical	Pass
2	1596.500	48.41	-16.23	74.0	25.59	Peak	138.00	150	Vertical	Pass
2**	1596.500	38.97	-16.23	54.0	15.03	AV	138.00	150	Vertical	Pass
3	3197.500	48.99	-7.78	74.0	25.01	Peak	126.00	150	Vertical	Pass
3**	3197.500	39.06	-7.78	54.0	14.94	AV	126.00	150	Vertical	Pass
4	5324.000	88.47	-2.44	74.0	-14.47	Peak	303.00	150	Vertical	N/A
4**	5324.000	80.69	-2.44	54.0	-26.69	AV	303.00	150	Vertical	N/A
5	9154.013	46.96	-5.35	74.0	27.04	Peak	310.00	150	Vertical	Pass
5**	9154.013	36.89	-5.35	54.0	17.11	AV	310.00	150	Vertical	Pass
6	14149.125	49.81	-1.30	74.0	24.19	Peak	360.00	150	Vertical	Pass
6**	14149.125	38.50	-1.30	54.0	15.50	AV	360.00	150	Vertical	Pass

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

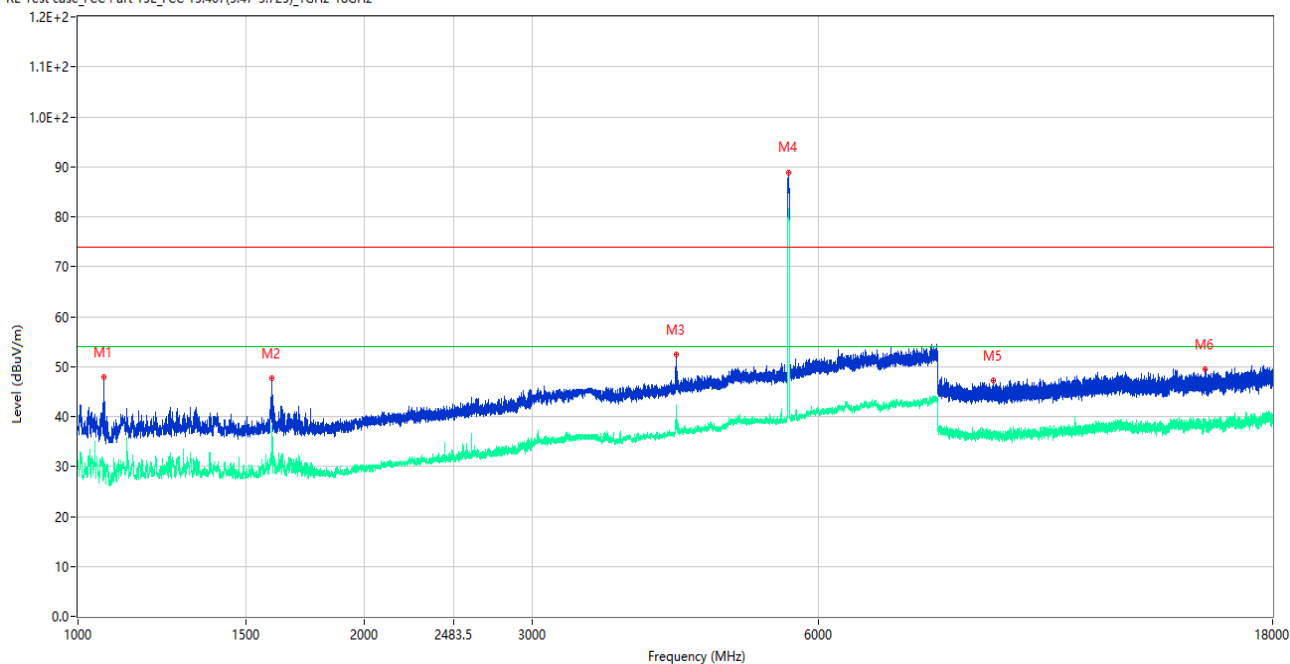
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1124.500	41.50	-15.65	74.0	32.50	Peak	190.00	150	Horizontal	Pass
1**	1124.500	31.69	-15.65	54.0	22.31	AV	190.00	150	Horizontal	Pass
2	1594.250	44.36	-16.22	74.0	29.64	Peak	101.00	150	Horizontal	Pass
2**	1594.250	34.14	-16.22	54.0	19.86	AV	101.00	150	Horizontal	Pass
3	3199.000	48.27	-7.74	74.0	25.73	Peak	240.00	150	Horizontal	Pass
3**	3199.000	35.49	-7.74	54.0	18.51	AV	240.00	150	Horizontal	Pass
4	5581.500	89.25	-2.85	74.0	-15.25	Peak	250.00	150	Horizontal	N/A
4**	5581.500	81.85	-2.85	54.0	-27.85	AV	250.00	150	Horizontal	N/A
5	8487.588	48.45	-4.77	74.0	25.55	Peak	28.00	150	Horizontal	Pass
5**	8487.588	36.85	-4.77	54.0	17.15	AV	28.00	150	Horizontal	Pass
6	16233.900	49.30	-1.13	74.0	24.70	Peak	141.00	150	Horizontal	Pass
6**	16233.900	38.62	-1.13	54.0	15.38	AV	141.00	150	Horizontal	Pass

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

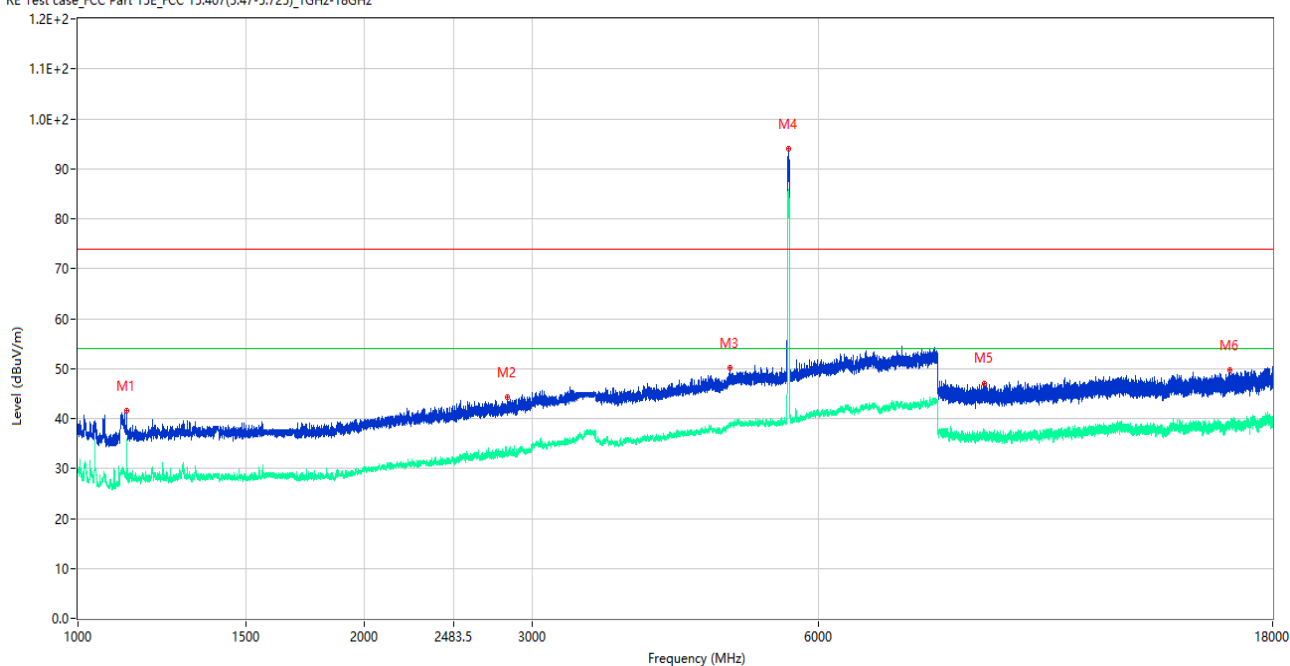
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.750	47.86	-15.15	74.0	26.14	Peak	146.00	150	Vertical	Pass
1**	1065.750	29.67	-15.15	54.0	24.33	AV	146.00	150	Vertical	Pass
2	1599.500	47.67	-16.24	74.0	26.33	Peak	117.00	150	Vertical	Pass
2**	1599.500	37.59	-16.24	54.0	16.41	AV	117.00	150	Vertical	Pass
3	4248.500	52.35	-3.64	74.0	21.65	Peak	149.00	150	Vertical	Pass
3**	4248.500	39.70	-3.64	54.0	14.30	AV	149.00	150	Vertical	Pass
4	5578.500	88.90	-2.88	74.0	-14.90	Peak	240.00	150	Vertical	N/A
4**	5578.500	80.77	-2.88	54.0	-26.77	AV	240.00	150	Vertical	N/A
5	9155.912	47.32	-5.39	74.0	26.68	Peak	100.00	150	Vertical	Pass
5**	9155.912	36.81	-5.39	54.0	17.19	AV	100.00	150	Vertical	Pass
6	15294.412	49.44	-1.82	74.0	24.56	Peak	138.00	150	Vertical	Pass
6**	15294.412	37.74	-1.82	54.0	16.26	AV	138.00	150	Vertical	Pass

11ac20, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

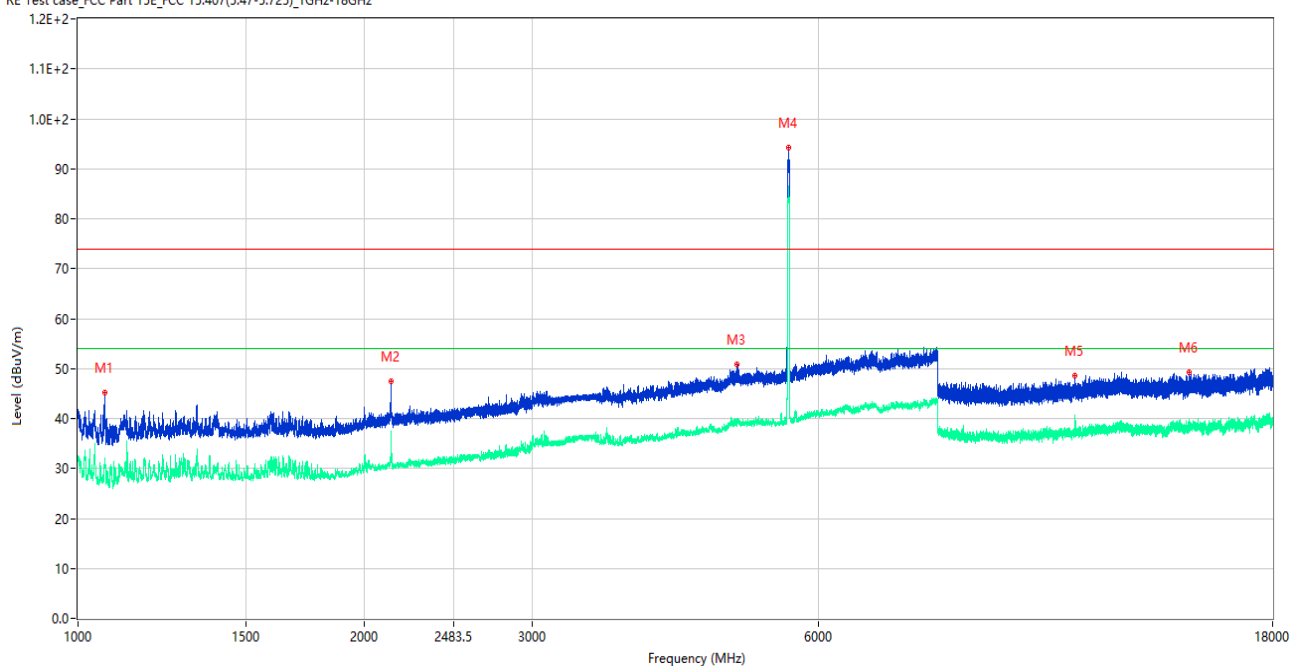
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1125.000	41.57	-15.64	74.0	32.43	Peak	187.00	150	Horizontal	Pass
1**	1125.000	35.63	-15.64	54.0	18.37	AV	187.00	150	Horizontal	Pass
2	2825.000	44.22	-10.29	74.0	29.78	Peak	32.00	150	Horizontal	Pass
2**	2825.000	32.61	-10.29	54.0	21.39	AV	32.00	150	Horizontal	Pass
3	4844.000	50.12	-1.88	74.0	23.88	Peak	220.00	150	Horizontal	Pass
3**	4844.000	38.45	-1.88	54.0	15.55	AV	220.00	150	Horizontal	Pass
4	5586.000	94.06	-2.81	74.0	-20.06	Peak	279.00	150	Horizontal	N/A
4**	5586.000	85.32	-2.81	54.0	-31.32	AV	279.00	150	Horizontal	N/A
5	8953.088	46.97	-4.43	74.0	27.03	Peak	27.00	150	Horizontal	Pass
5**	8953.088	36.02	-4.43	54.0	17.98	AV	27.00	150	Horizontal	Pass
6	16247.550	49.83	-1.55	74.0	24.17	Peak	310.00	150	Horizontal	Pass
6**	16247.550	38.08	-1.55	54.0	15.92	AV	310.00	150	Horizontal	Pass

11ac20, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

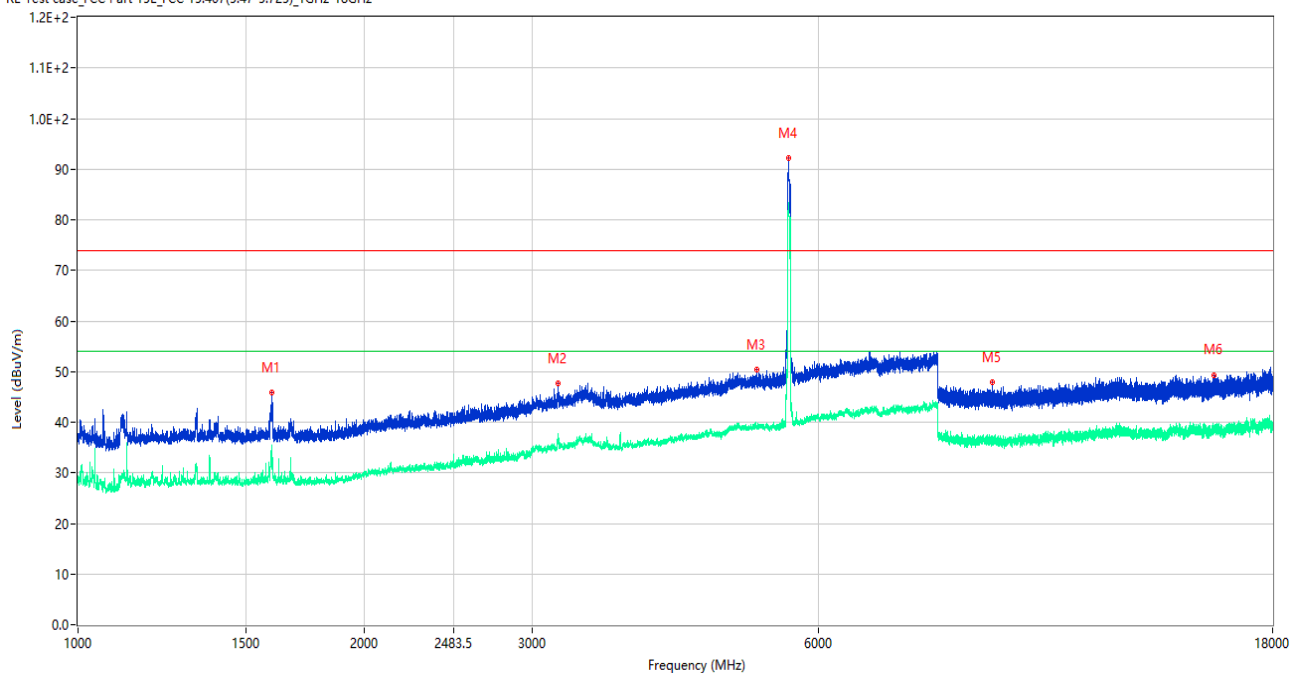
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1066.250	45.12	-15.14	74.0	28.88	Peak	112.00	150	Vertical	Pass
1**	1066.250	31.00	-15.14	54.0	23.00	AV	112.00	150	Vertical	Pass
2	2132.250	47.43	-13.36	74.0	26.57	Peak	149.00	150	Vertical	Pass
2**	2132.250	33.34	-13.36	54.0	20.66	AV	149.00	150	Vertical	Pass
3	4929.000	50.86	-2.20	74.0	23.14	Peak	161.00	150	Vertical	Pass
3**	4929.000	39.24	-2.20	54.0	14.76	AV	161.00	150	Vertical	Pass
4	5581.500	94.17	-2.85	74.0	-20.17	Peak	322.00	150	Vertical	N/A
4**	5581.500	86.01	-2.85	54.0	-32.01	AV	322.00	150	Vertical	N/A
5	11163.737	48.65	-4.07	74.0	25.35	Peak	311.00	150	Vertical	Pass
5**	11163.737	40.39	-4.07	54.0	13.61	AV	311.00	150	Vertical	Pass
6	14724.525	49.21	-1.67	74.0	24.79	Peak	360.00	150	Vertical	Pass
6**	14724.525	38.75	-1.67	54.0	15.25	AV	360.00	150	Vertical	Pass

11ac40, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

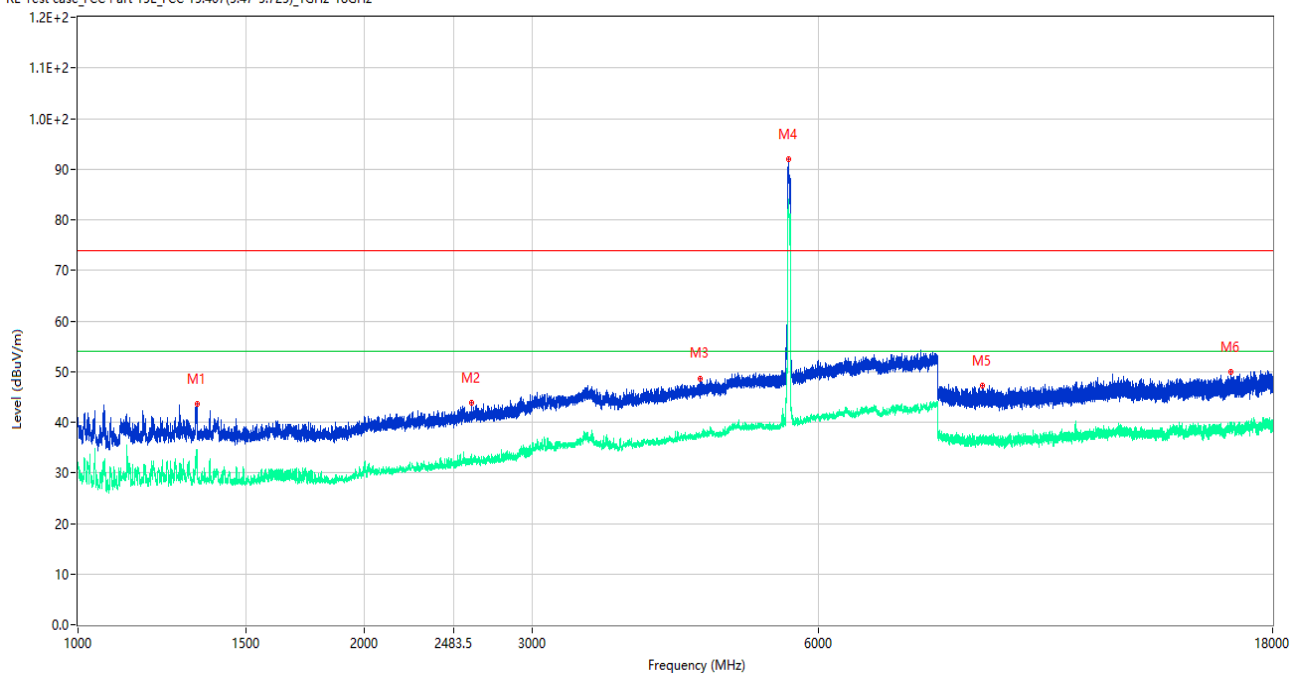
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1597.250	45.78	-16.22	74.0	28.22	Peak	113.00	150	Horizontal	Pass
1**	1597.250	34.74	-16.22	54.0	19.26	AV	113.00	150	Horizontal	Pass
2	3192.500	47.67	-7.70	74.0	26.33	Peak	129.00	150	Horizontal	Pass
2**	3192.500	36.08	-7.70	54.0	17.92	AV	129.00	150	Horizontal	Pass
3	5166.000	50.39	-2.24	74.0	23.61	Peak	0.00	150	Horizontal	Pass
3**	5166.000	38.95	-2.24	54.0	15.05	AV	0.00	150	Horizontal	Pass
4	5575.000	92.12	-2.95	74.0	-18.12	Peak	288.00	150	Horizontal	N/A
4**	5575.000	82.62	-2.95	54.0	-28.62	AV	288.00	150	Horizontal	N/A
5	9140.950	47.91	-5.57	74.0	26.09	Peak	286.00	150	Horizontal	Pass
5**	9140.950	36.77	-5.57	54.0	17.23	AV	286.00	150	Horizontal	Pass
6	15628.838	49.37	-1.69	74.0	24.63	Peak	47.00	150	Horizontal	Pass
6**	15628.838	39.34	-1.69	54.0	14.66	AV	47.00	150	Horizontal	Pass

11ac40, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

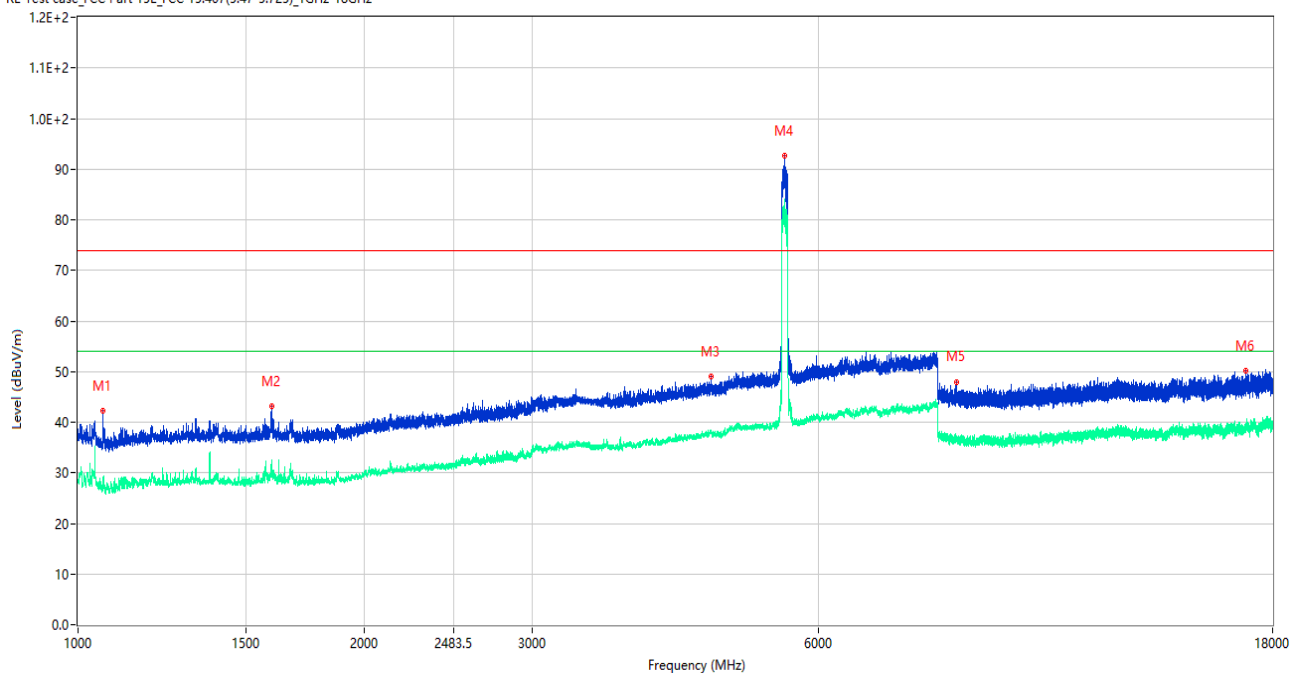
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.000	43.59	-16.01	74.0	30.41	Peak	140.00	150	Vertical	Pass
1**	1333.000	34.38	-16.01	54.0	19.62	AV	140.00	150	Vertical	Pass
2	2590.000	43.93	-10.74	74.0	30.07	Peak	140.00	150	Vertical	Pass
2**	2590.000	32.34	-10.74	54.0	21.66	AV	140.00	150	Vertical	Pass
3	4502.000	48.48	-3.24	74.0	25.52	Peak	199.00	150	Vertical	Pass
3**	4502.000	37.30	-3.24	54.0	16.70	AV	199.00	150	Vertical	Pass
4	5583.000	91.93	-2.83	74.0	-17.93	Peak	237.00	150	Vertical	N/A
4**	5583.000	83.43	-2.83	54.0	-29.43	AV	237.00	150	Vertical	N/A
5	8923.875	47.15	-4.68	74.0	26.85	Peak	192.00	150	Vertical	Pass
5**	8923.875	36.34	-4.68	54.0	17.66	AV	192.00	150	Vertical	Pass
6	16288.238	49.85	-1.46	74.0	24.15	Peak	117.00	150	Vertical	Pass
6**	16288.238	38.83	-1.46	54.0	15.17	AV	117.00	150	Vertical	Pass

11ac80, U-NII-2C, 1 GHz to 18 GHz, High Channel, ANT H

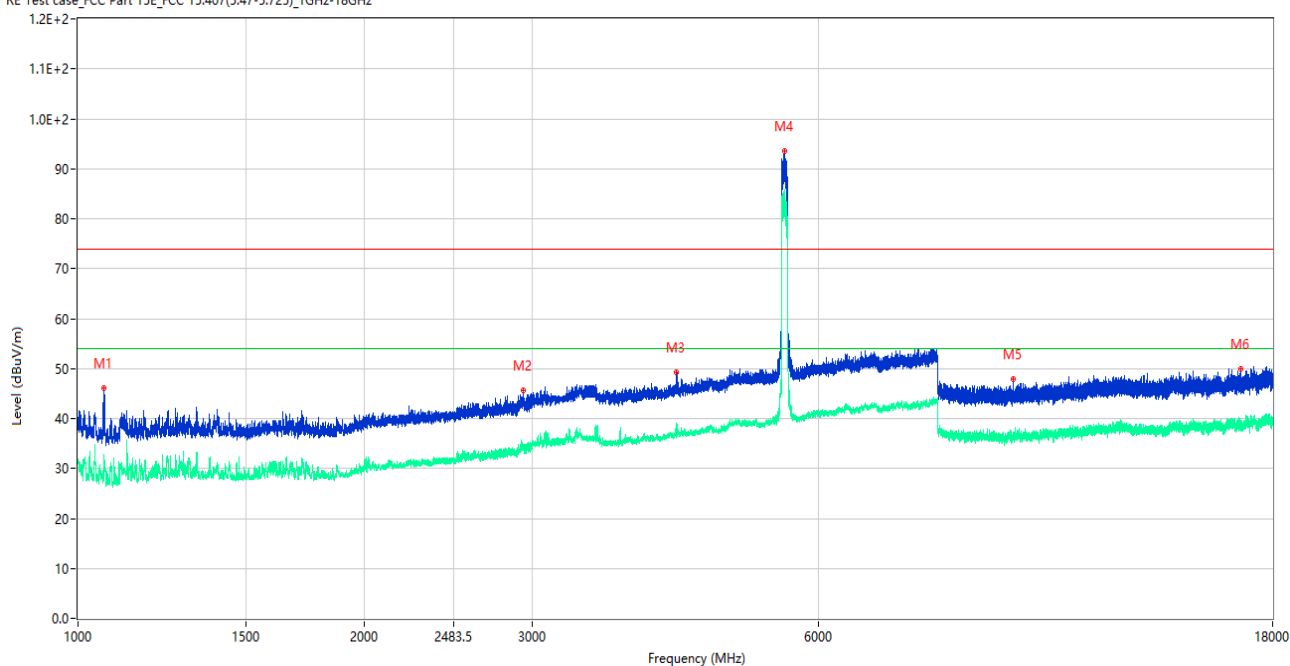
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.250	42.17	-15.25	74.0	31.83	Peak	42.00	150	Horizontal	Pass
1**	1062.250	28.46	-15.25	54.0	25.54	AV	42.00	150	Horizontal	Pass
2	1599.750	43.08	-16.24	74.0	30.92	Peak	98.00	150	Horizontal	Pass
2**	1599.750	29.90	-16.24	54.0	24.10	AV	98.00	150	Horizontal	Pass
3	4629.000	48.96	-2.59	74.0	25.04	Peak	69.00	150	Horizontal	Pass
3**	4629.000	37.96	-2.59	54.0	16.04	AV	69.00	150	Horizontal	Pass
4	5528.000	92.61	-2.43	74.0	-18.61	Peak	288.00	150	Horizontal	N/A
4**	5528.000	84.08	-2.43	54.0	-30.08	AV	288.00	150	Horizontal	N/A
5	8383.088	48.02	-4.78	74.0	25.98	Peak	146.00	150	Horizontal	Pass
5**	8383.088	37.05	-4.78	54.0	16.95	AV	146.00	150	Horizontal	Pass
6	16864.162	50.14	-0.79	74.0	23.86	Peak	253.00	150	Horizontal	Pass
6**	16864.162	38.89	-0.79	54.0	15.11	AV	253.00	150	Horizontal	Pass

11ac80, U-NII-2C, 1 GHz to 18 GHz, High Channel, ANT V

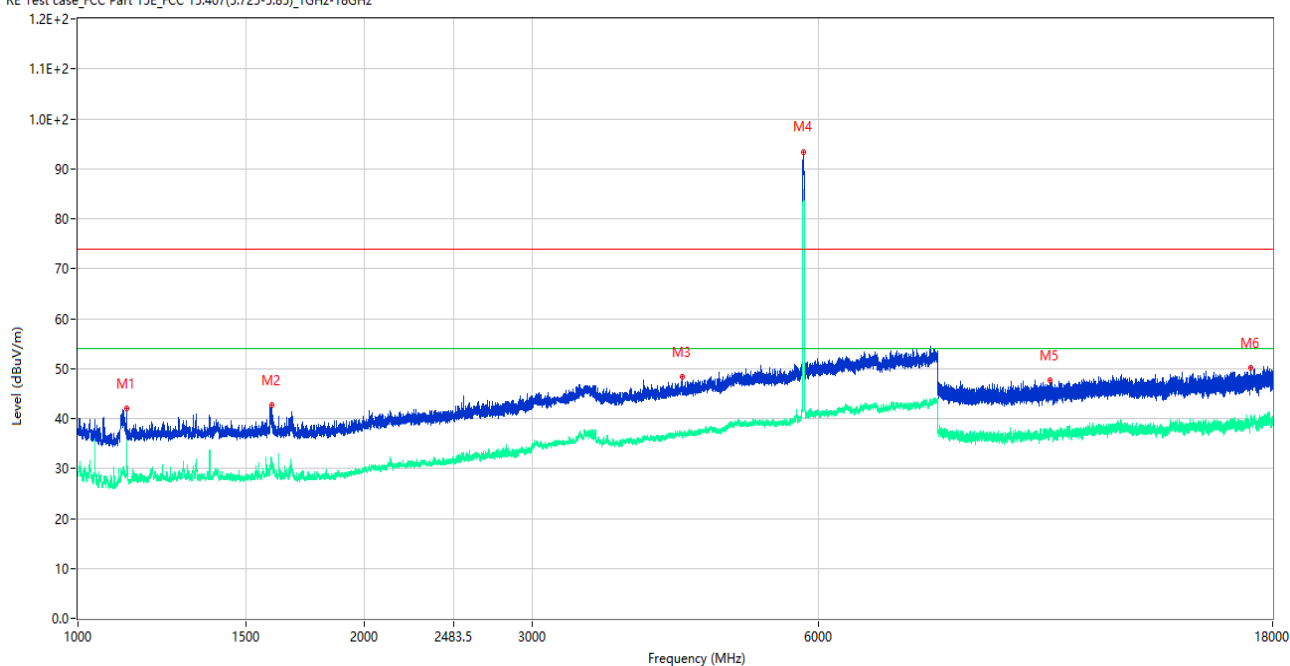
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.500	46.03	-15.23	74.0	27.97	Peak	142.00	150	Vertical	Pass
1**	1063.500	27.99	-15.23	54.0	26.01	AV	142.00	150	Vertical	Pass
2	2940.000	45.60	-8.50	74.0	28.40	Peak	146.00	150	Vertical	Pass
2**	2940.000	33.99	-8.50	54.0	20.01	AV	146.00	150	Vertical	Pass
3	4250.000	49.33	-3.70	74.0	24.67	Peak	200.00	150	Vertical	Pass
3**	4250.000	36.93	-3.70	54.0	17.07	AV	200.00	150	Vertical	Pass
4	5525.000	93.57	-2.44	74.0	-19.57	Peak	241.00	150	Vertical	N/A
4**	5525.000	83.94	-2.44	54.0	-29.94	AV	241.00	150	Vertical	N/A
5	9599.563	47.83	-3.44	74.0	26.17	Peak	167.00	150	Vertical	Pass
5**	9599.563	35.97	-3.44	54.0	18.03	AV	167.00	150	Vertical	Pass
6	16657.838	49.89	-1.58	74.0	24.11	Peak	13.00	150	Vertical	Pass
6**	16657.838	38.21	-1.58	54.0	15.79	AV	13.00	150	Vertical	Pass

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

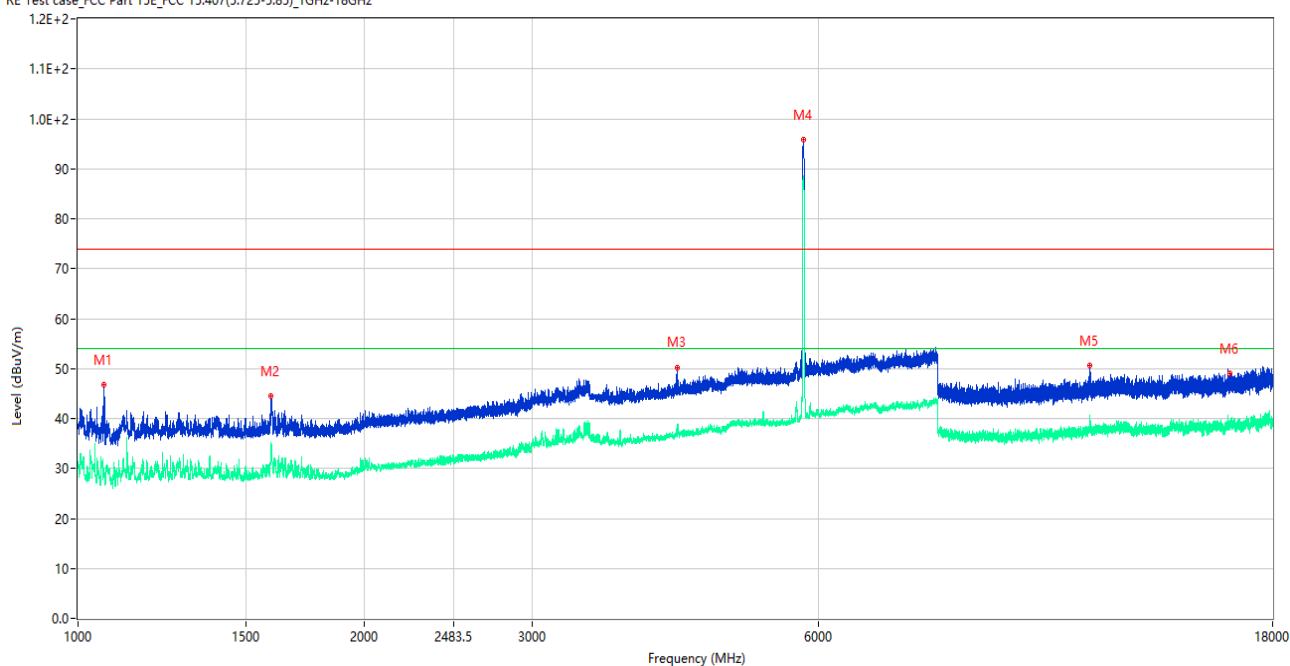
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1125.250	42.01	-15.64	74.0	31.99	Peak	190.00	150	Horizontal	Pass
1**	1125.250	35.54	-15.64	54.0	18.46	AV	190.00	150	Horizontal	Pass
2	1598.000	42.73	-16.21	74.0	31.27	Peak	106.00	150	Horizontal	Pass
2**	1598.000	31.72	-16.21	54.0	22.28	AV	106.00	150	Horizontal	Pass
3	4311.000	48.37	-3.60	74.0	25.63	Peak	270.00	150	Horizontal	Pass
3**	4311.000	36.67	-3.60	54.0	17.33	AV	270.00	150	Horizontal	Pass
4	5786.000	93.42	-1.53	74.0	-19.42	Peak	148.00	150	Horizontal	N/A
4**	5786.000	85.31	-1.53	54.0	-31.31	AV	148.00	150	Horizontal	N/A
5	10509.901	47.67	-3.37	74.0	26.33	Peak	215.00	150	Horizontal	Pass
5**	10509.901	36.87	-3.37	54.0	17.13	AV	215.00	150	Horizontal	Pass
6	17069.963	50.15	-0.79	74.0	23.85	Peak	360.00	150	Horizontal	Pass
6**	17069.963	39.02	-0.79	54.0	14.98	AV	360.00	150	Horizontal	Pass

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

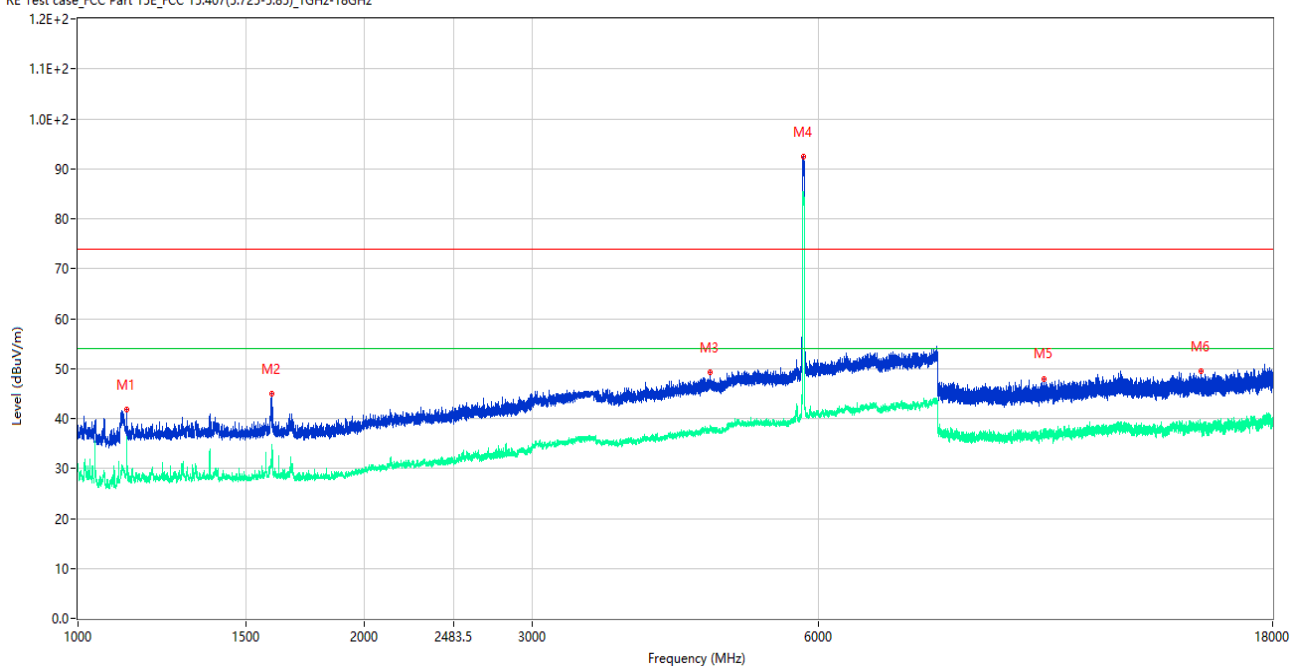
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.250	46.76	-15.17	74.0	27.24	Peak	162.00	150	Vertical	Pass
1**	1065.250	29.14	-15.17	54.0	24.86	AV	162.00	150	Vertical	Pass
2	1596.000	44.46	-16.24	74.0	29.54	Peak	106.00	150	Vertical	Pass
2**	1596.000	34.58	-16.24	54.0	19.42	AV	106.00	150	Vertical	Pass
3	4263.500	50.12	-3.85	74.0	23.88	Peak	160.00	150	Vertical	Pass
3**	4263.500	36.33	-3.85	54.0	17.67	AV	160.00	150	Vertical	Pass
4	5784.000	95.80	-1.54	74.0	-21.80	Peak	249.00	150	Vertical	N/A
4**	5784.000	88.23	-1.54	54.0	-34.23	AV	249.00	150	Vertical	N/A
5	11563.213	50.66	-2.30	74.0	23.34	Peak	121.00	150	Vertical	Pass
5**	11563.213	39.26	-2.30	54.0	14.74	AV	121.00	150	Vertical	Pass
6	16240.987	49.10	-1.37	74.0	24.90	Peak	14.00	150	Vertical	Pass
6**	16240.987	38.37	-1.37	54.0	15.63	AV	14.00	150	Vertical	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

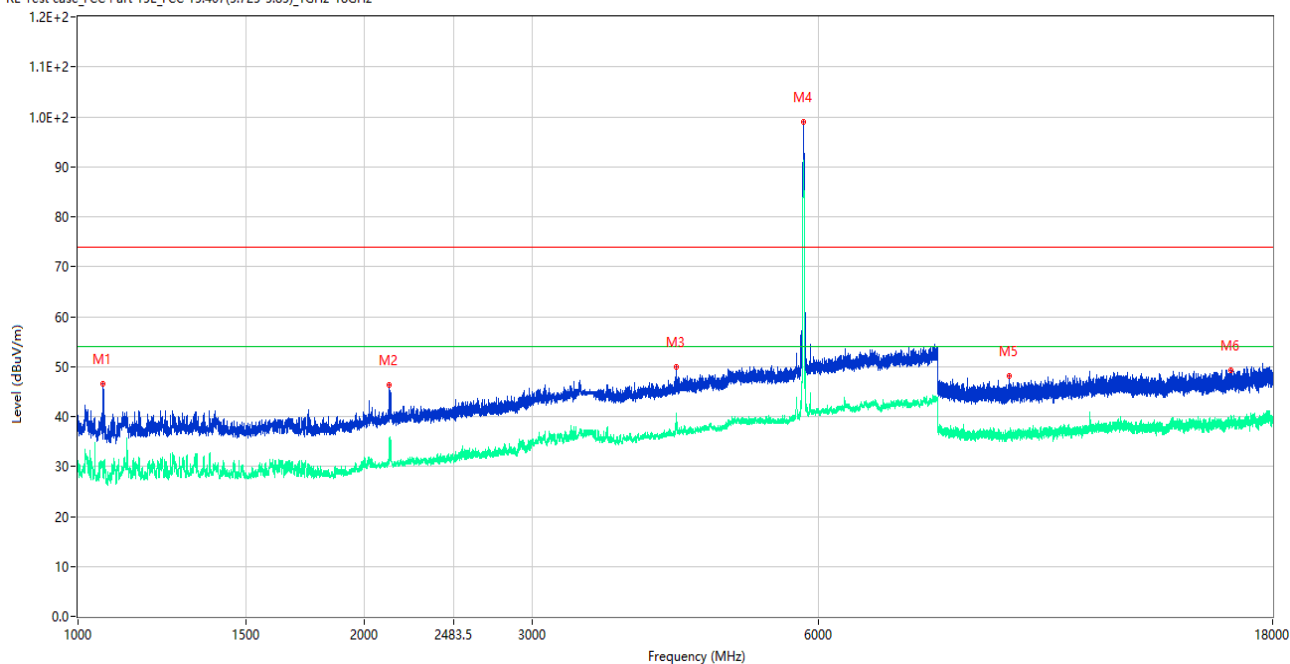
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1124.750	41.76	-15.65	74.0	32.24	Peak	193.00	150	Horizontal	Pass
1**	1124.750	33.32	-15.65	54.0	20.68	AV	193.00	150	Horizontal	Pass
2	1599.500	45.04	-16.24	74.0	28.96	Peak	77.00	150	Horizontal	Pass
2**	1599.500	34.54	-16.24	54.0	19.46	AV	77.00	150	Horizontal	Pass
3	4617.000	49.17	-3.06	74.0	24.83	Peak	0.00	150	Horizontal	Pass
3**	4617.000	37.89	-3.06	54.0	16.11	AV	0.00	150	Horizontal	Pass
4	5780.000	92.41	-1.51	74.0	-18.41	Peak	241.00	150	Horizontal	N/A
4**	5780.000	84.76	-1.51	54.0	-30.76	AV	241.00	150	Horizontal	N/A
5	10360.750	48.01	-3.13	74.0	25.99	Peak	192.00	150	Horizontal	Pass
5**	10360.750	37.01	-3.13	54.0	16.99	AV	192.00	150	Horizontal	Pass
6	15131.138	49.42	-2.34	74.0	24.58	Peak	359.00	150	Horizontal	Pass
6**	15131.138	38.35	-2.34	54.0	15.65	AV	359.00	150	Horizontal	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

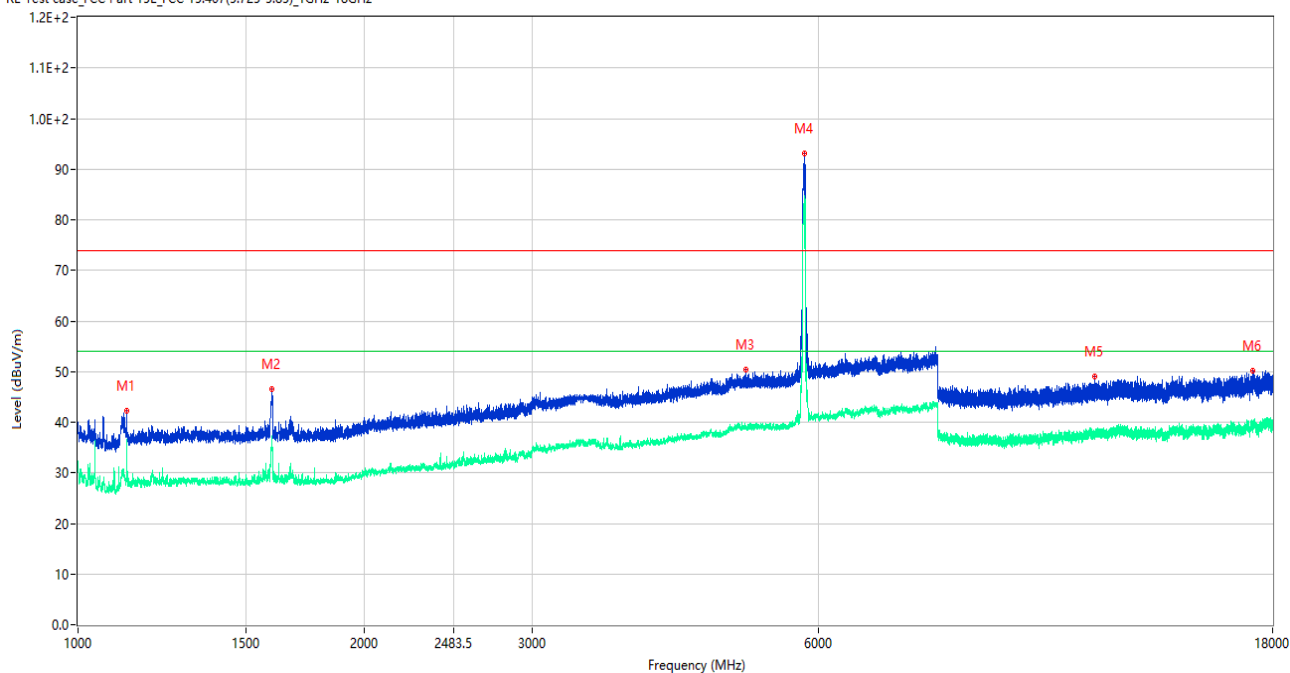
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.500	46.62	-15.25	74.0	27.38	Peak	168.00	150	Vertical	Pass
1**	1062.500	28.35	-15.25	54.0	25.65	AV	168.00	150	Vertical	Pass
2	2124.000	46.24	-13.28	74.0	27.76	Peak	135.00	150	Vertical	Pass
2**	2124.000	33.27	-13.28	54.0	20.73	AV	135.00	150	Vertical	Pass
3	4249.500	50.03	-3.68	74.0	23.97	Peak	98.00	150	Vertical	Pass
3**	4249.500	39.48	-3.68	54.0	14.52	AV	98.00	150	Vertical	Pass
4	5786.500	99.06	-1.53	74.0	-25.06	Peak	227.00	150	Vertical	N/A
4**	5786.500	90.94	-1.53	54.0	-36.94	AV	227.00	150	Vertical	N/A
5	9523.562	48.13	-2.87	74.0	25.87	Peak	25.00	150	Vertical	Pass
5**	9523.562	36.36	-2.87	54.0	17.64	AV	25.00	150	Vertical	Pass
6	16280.362	49.27	-1.73	74.0	24.73	Peak	84.00	150	Vertical	Pass
6**	16280.362	38.05	-1.73	54.0	15.95	AV	84.00	150	Vertical	Pass

11ac40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

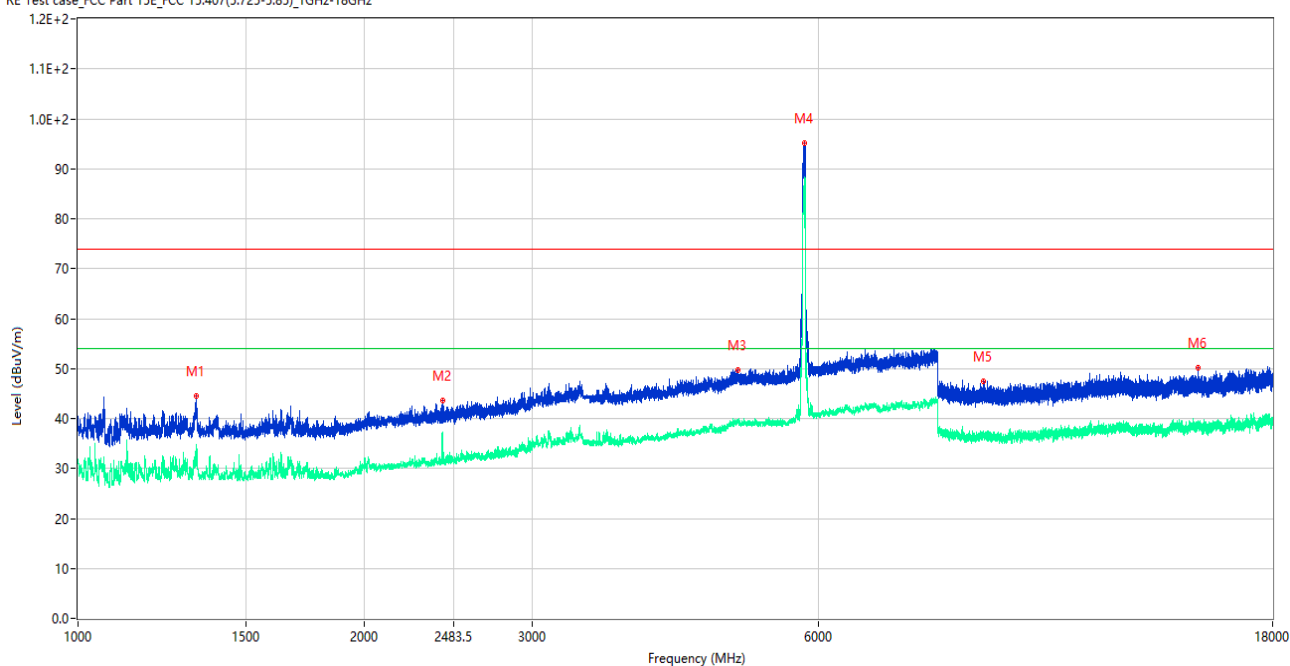
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1124.500	42.17	-15.65	74.0	31.83	Peak	196.00	150	Horizontal	Pass
1**	1124.500	32.11	-15.65	54.0	21.89	AV	196.00	150	Horizontal	Pass
2	1598.750	46.50	-16.23	74.0	27.50	Peak	107.00	150	Horizontal	Pass
2**	1598.750	36.54	-16.23	54.0	17.46	AV	107.00	150	Horizontal	Pass
3	5037.000	50.29	-2.33	74.0	23.71	Peak	158.00	150	Horizontal	Pass
3**	5037.000	38.74	-2.33	54.0	15.26	AV	158.00	150	Horizontal	Pass
4	5804.500	93.13	-1.36	74.0	-19.13	Peak	265.00	150	Horizontal	N/A
4**	5804.500	84.46	-1.36	54.0	-30.46	AV	265.00	150	Horizontal	N/A
5	11695.500	49.03	-2.80	74.0	24.97	Peak	0.00	150	Horizontal	Pass
5**	11695.500	37.64	-2.80	54.0	16.36	AV	0.00	150	Horizontal	Pass
6	17143.463	50.18	-0.05	74.0	23.82	Peak	359.00	150	Horizontal	Pass
6**	17143.463	39.42	-0.05	54.0	14.58	AV	359.00	150	Horizontal	Pass

11ac40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

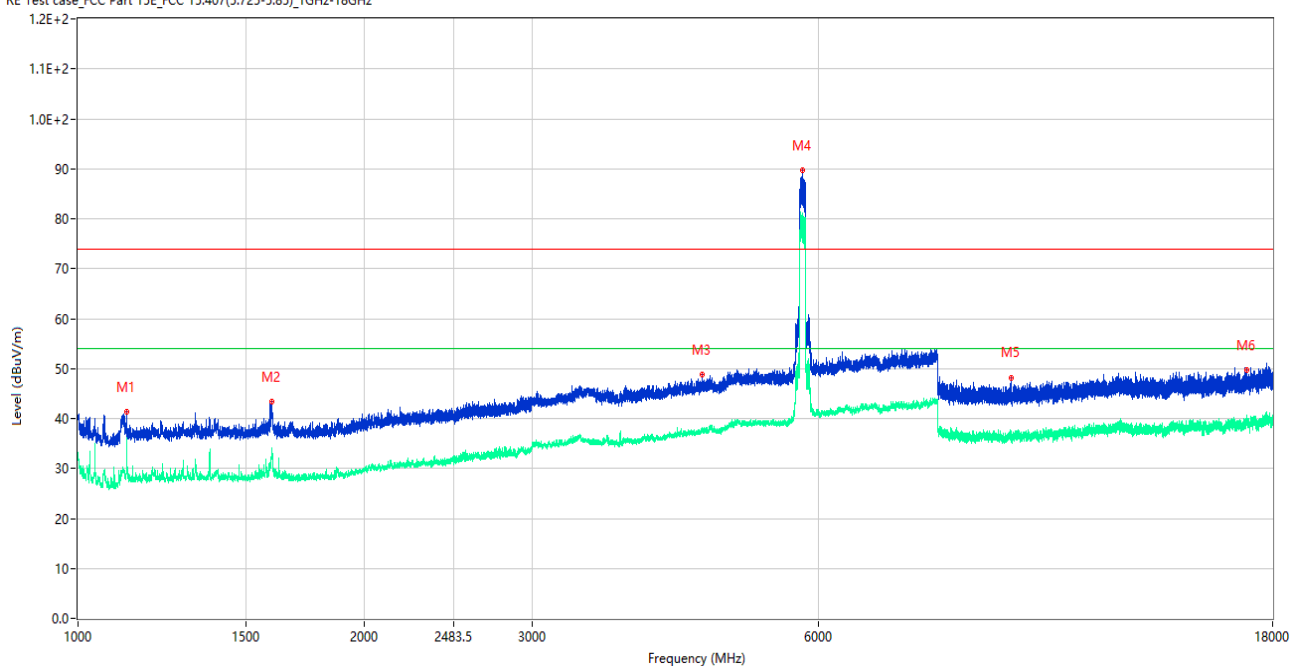
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.250	44.47	-16.00	74.0	29.53	Peak	132.00	150	Vertical	Pass
1**	1332.250	34.11	-16.00	54.0	19.89	AV	132.00	150	Vertical	Pass
2	2414.750	43.53	-12.51	74.0	30.47	Peak	109.00	150	Vertical	Pass
2**	2414.750	36.50	-12.51	54.0	17.50	AV	109.00	150	Vertical	Pass
3	4937.000	49.71	-1.95	74.0	24.29	Peak	168.00	150	Vertical	Pass
3**	4937.000	39.07	-1.95	54.0	14.93	AV	168.00	150	Vertical	Pass
4	5804.000	95.20	-1.36	74.0	-21.20	Peak	237.00	150	Vertical	N/A
4**	5804.000	87.00	-1.36	54.0	-33.00	AV	237.00	150	Vertical	N/A
5	8940.026	47.57	-4.36	74.0	26.43	Peak	0.00	150	Vertical	Pass
5**	8940.026	37.20	-4.36	54.0	16.80	AV	0.00	150	Vertical	Pass
6	15016.688	50.15	-2.78	74.0	23.85	Peak	115.00	150	Vertical	Pass
6**	15016.688	38.09	-2.78	54.0	15.91	AV	115.00	150	Vertical	Pass

11ac80, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

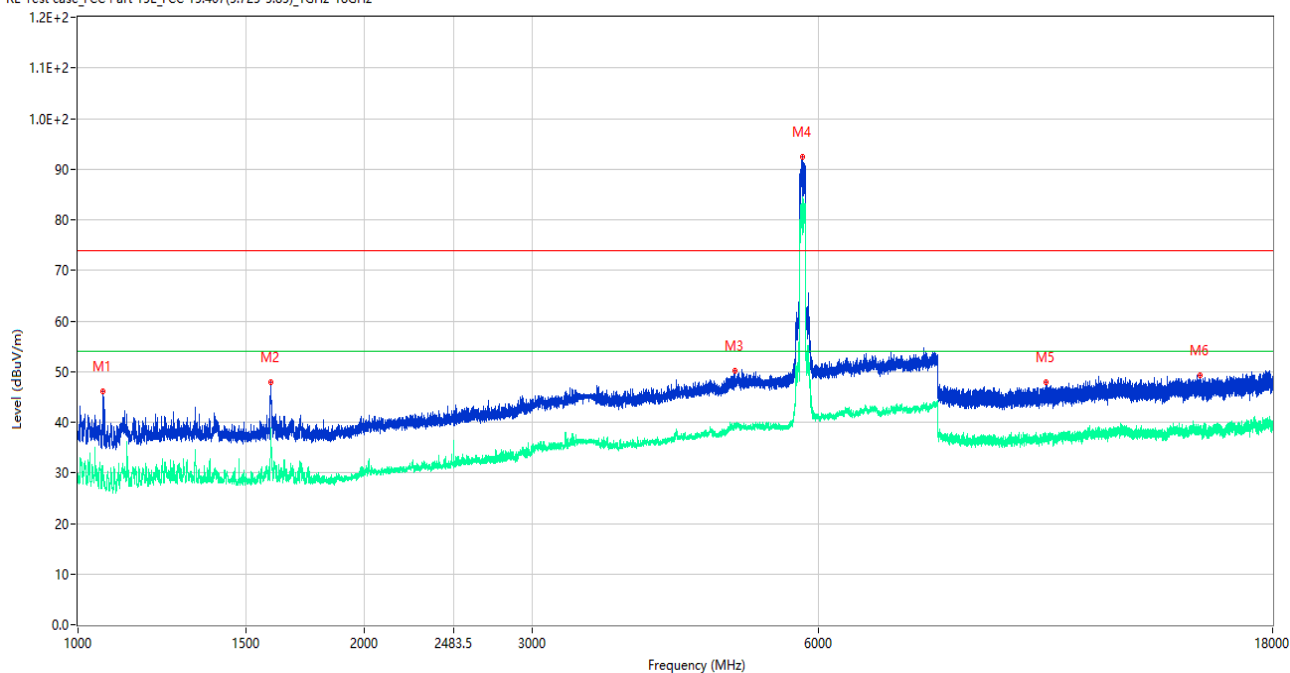
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1125.250	41.33	-15.64	74.0	32.67	Peak	187.00	150	Horizontal	Pass
1**	1125.250	36.23	-15.64	54.0	17.77	AV	187.00	150	Horizontal	Pass
2	1599.250	43.37	-16.24	74.0	30.63	Peak	65.00	150	Horizontal	Pass
2**	1599.250	32.62	-16.24	54.0	21.38	AV	65.00	150	Horizontal	Pass
3	4527.500	48.82	-2.37	74.0	25.18	Peak	160.00	150	Horizontal	Pass
3**	4527.500	37.93	-2.37	54.0	16.07	AV	160.00	150	Horizontal	Pass
4	5776.500	89.68	-1.54	74.0	-15.68	Peak	148.00	150	Horizontal	N/A
4**	5776.500	79.57	-1.54	54.0	-25.57	AV	148.00	150	Horizontal	N/A
5	9552.062	48.25	-2.52	74.0	25.75	Peak	51.00	150	Horizontal	Pass
5**	9552.062	37.41	-2.52	54.0	16.59	AV	51.00	150	Horizontal	Pass
6	16896.713	49.77	-0.60	74.0	24.23	Peak	0.00	150	Horizontal	Pass
6**	16896.713	40.47	-0.60	54.0	13.53	AV	0.00	150	Horizontal	Pass

11ac80, 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

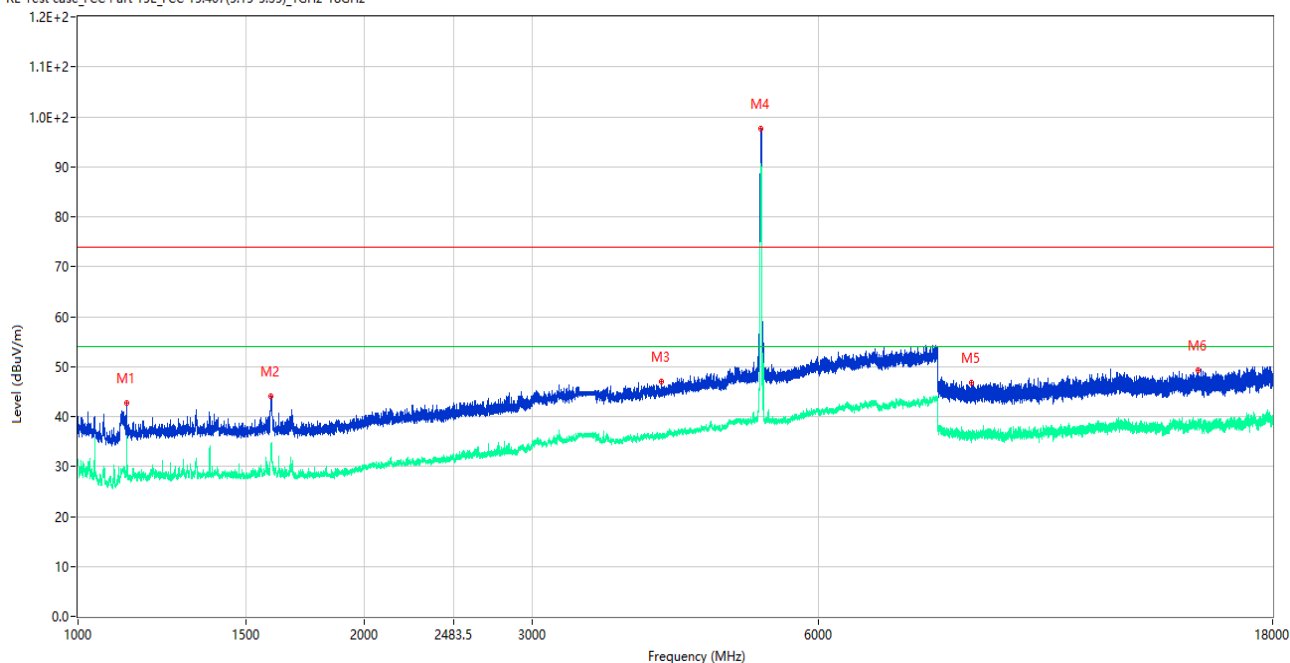


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.750	46.17	-15.24	74.0	27.83	Peak	127.00	150	Vertical	Pass
1**	1062.750	28.42	-15.24	54.0	25.58	AV	127.00	150	Vertical	Pass
2	1594.250	47.81	-16.22	74.0	26.19	Peak	142.00	150	Vertical	Pass
2**	1594.250	38.21	-16.22	54.0	15.79	AV	142.00	150	Vertical	Pass
3	4896.000	50.13	-2.27	74.0	23.87	Peak	190.00	150	Vertical	Pass
3**	4896.000	38.95	-2.27	54.0	15.05	AV	190.00	150	Vertical	Pass
4	5776.500	92.42	-1.54	74.0	-18.42	Peak	239.00	150	Vertical	N/A
4**	5776.500	84.35	-1.54	54.0	-30.35	AV	239.00	150	Vertical	N/A
5	10401.838	47.91	-3.43	74.0	26.09	Peak	51.00	150	Vertical	Pass
5**	10401.838	36.41	-3.43	54.0	17.59	AV	51.00	150	Vertical	Pass
6	15096.487	49.35	-2.11	74.0	24.65	Peak	15.00	150	Vertical	Pass
6**	15096.487	37.85	-2.11	54.0	16.15	AV	15.00	150	Vertical	Pass

Aux. Antenna:

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

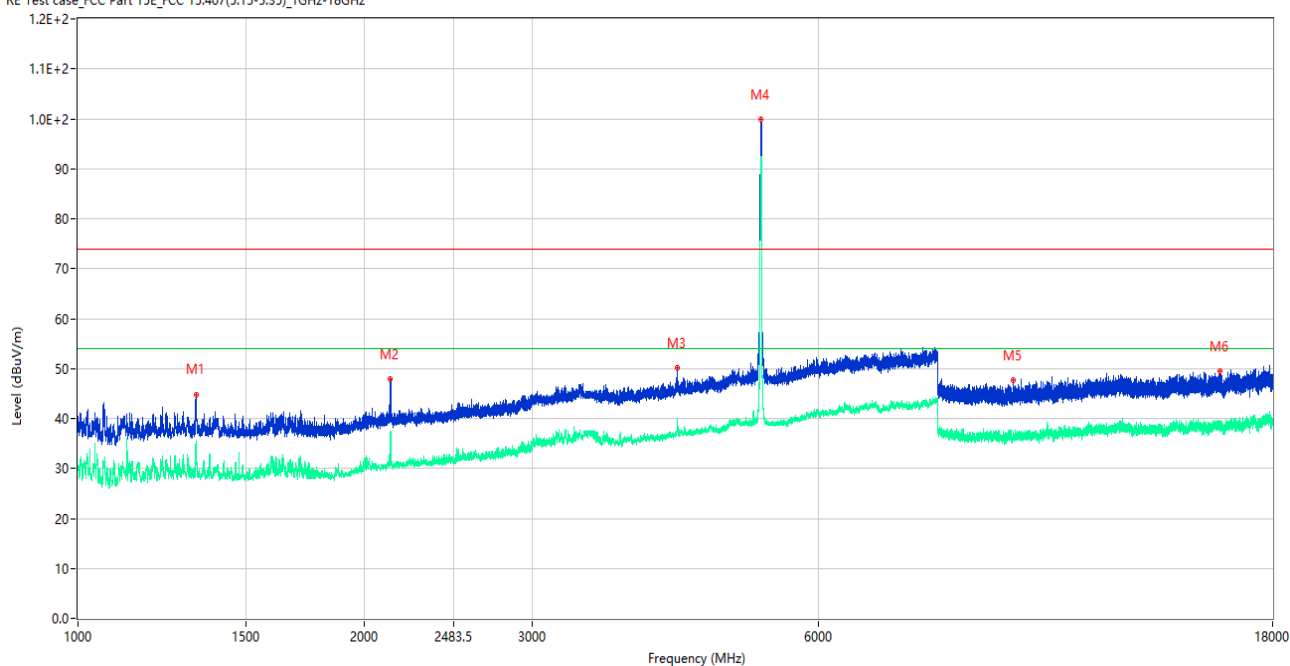
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1124.500	42.74	-15.65	74.0	31.26	Peak	190.00	150	Horizontal	Pass
1**	1124.500	31.23	-15.65	54.0	22.77	AV	190.00	150	Horizontal	Pass
2	1594.000	44.08	-16.21	74.0	29.92	Peak	78.00	150	Horizontal	Pass
2**	1594.000	34.07	-16.21	54.0	19.93	AV	78.00	150	Horizontal	Pass
3	4106.000	46.94	-4.43	74.0	27.06	Peak	179.00	150	Horizontal	Pass
3**	4106.000	36.10	-4.43	54.0	17.90	AV	179.00	150	Horizontal	Pass
4	5222.000	97.69	-2.36	74.0	-23.69	Peak	288.00	150	Horizontal	N/A
4**	5222.000	90.21	-2.36	54.0	-36.21	AV	288.00	150	Horizontal	N/A
5	8696.825	46.82	-5.97	74.0	27.18	Peak	262.00	150	Horizontal	Pass
5**	8696.825	36.36	-5.97	54.0	17.64	AV	262.00	150	Horizontal	Pass
6	15024.562	49.23	-2.71	74.0	24.77	Peak	14.00	150	Horizontal	Pass
6**	15024.562	38.33	-2.71	54.0	15.67	AV	14.00	150	Horizontal	Pass

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

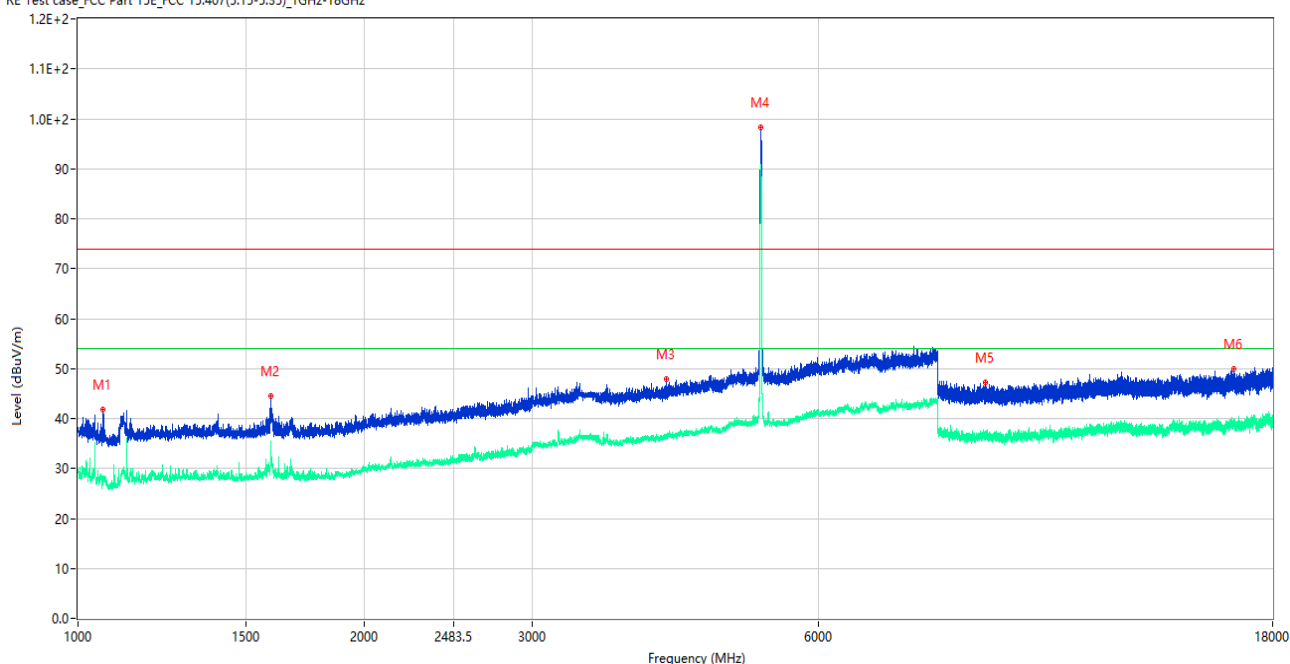
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.750	44.84	-15.99	74.0	29.16	Peak	138.00	150	Vertical	Pass
1**	1330.750	35.52	-15.99	54.0	18.48	AV	138.00	150	Vertical	Pass
2	2128.000	47.97	-13.25	74.0	26.03	Peak	138.00	150	Vertical	Pass
2**	2128.000	31.15	-13.25	54.0	22.85	AV	138.00	150	Vertical	Pass
3	4262.500	50.16	-3.91	74.0	23.84	Peak	101.00	150	Vertical	Pass
3**	4262.500	39.06	-3.91	54.0	14.94	AV	101.00	150	Vertical	Pass
4	5221.000	99.83	-2.36	74.0	-25.83	Peak	258.00	150	Vertical	N/A
4**	5221.000	90.69	-2.36	54.0	-36.69	AV	258.00	150	Vertical	N/A
5	9614.287	47.60	-3.31	74.0	26.40	Peak	360.00	150	Vertical	Pass
5**	9614.287	36.10	-3.31	54.0	17.90	AV	360.00	150	Vertical	Pass
6	15844.612	49.41	-1.03	74.0	24.59	Peak	252.00	150	Vertical	Pass
6**	15844.612	38.04	-1.03	54.0	15.96	AV	252.00	150	Vertical	Pass

11ac20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

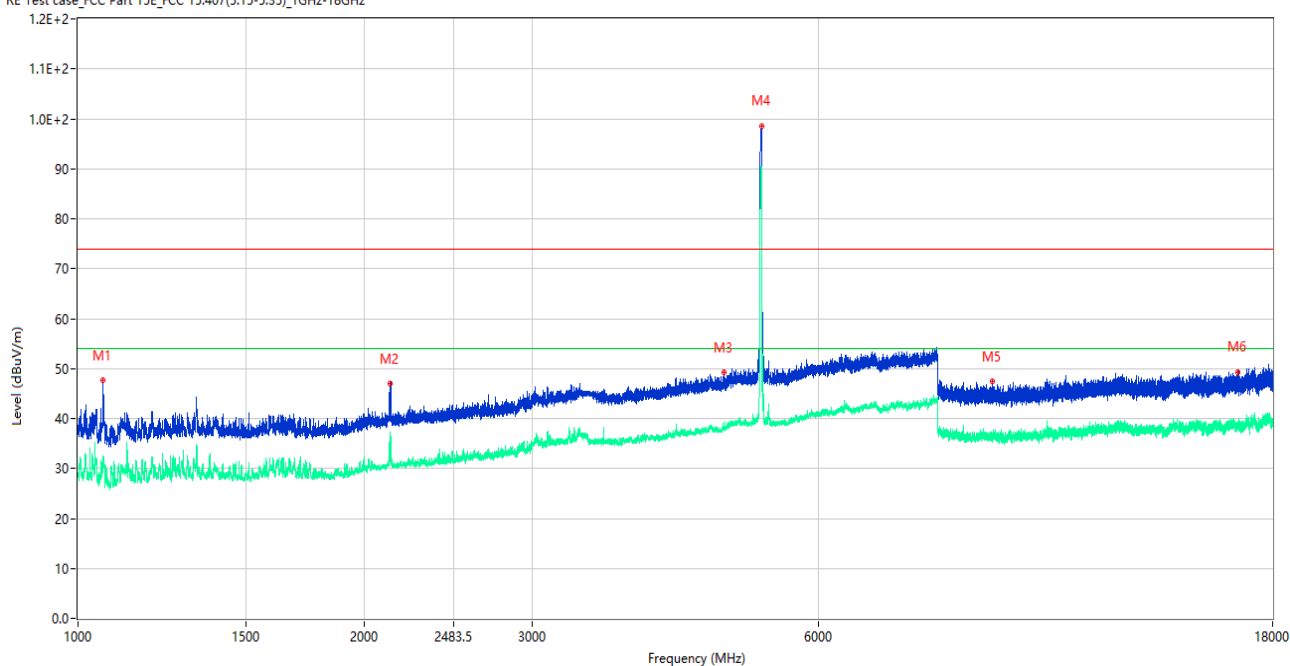
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.750	41.70	-15.24	74.0	32.30	Peak	160.00	150	Horizontal	Pass
1**	1062.750	27.46	-15.24	54.0	26.54	AV	160.00	150	Horizontal	Pass
2	1593.500	44.50	-16.21	74.0	29.50	Peak	104.00	150	Horizontal	Pass
2**	1593.500	34.33	-16.21	54.0	19.67	AV	104.00	150	Horizontal	Pass
3	4150.000	47.81	-4.59	74.0	26.19	Peak	300.00	150	Horizontal	Pass
3**	4150.000	36.22	-4.59	54.0	17.78	AV	300.00	150	Horizontal	Pass
4	5218.500	98.22	-2.37	74.0	-24.22	Peak	320.00	150	Horizontal	N/A
4**	5218.500	90.35	-2.37	54.0	-36.35	AV	320.00	150	Horizontal	N/A
5	8991.799	47.14	-4.53	74.0	26.86	Peak	1.00	150	Horizontal	Pass
5**	8991.799	36.47	-4.53	54.0	17.53	AV	1.00	150	Horizontal	Pass
6	16391.663	49.86	-1.28	74.0	24.14	Peak	14.00	150	Horizontal	Pass
6**	16391.663	38.82	-1.28	54.0	15.18	AV	14.00	150	Horizontal	Pass

11ac20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

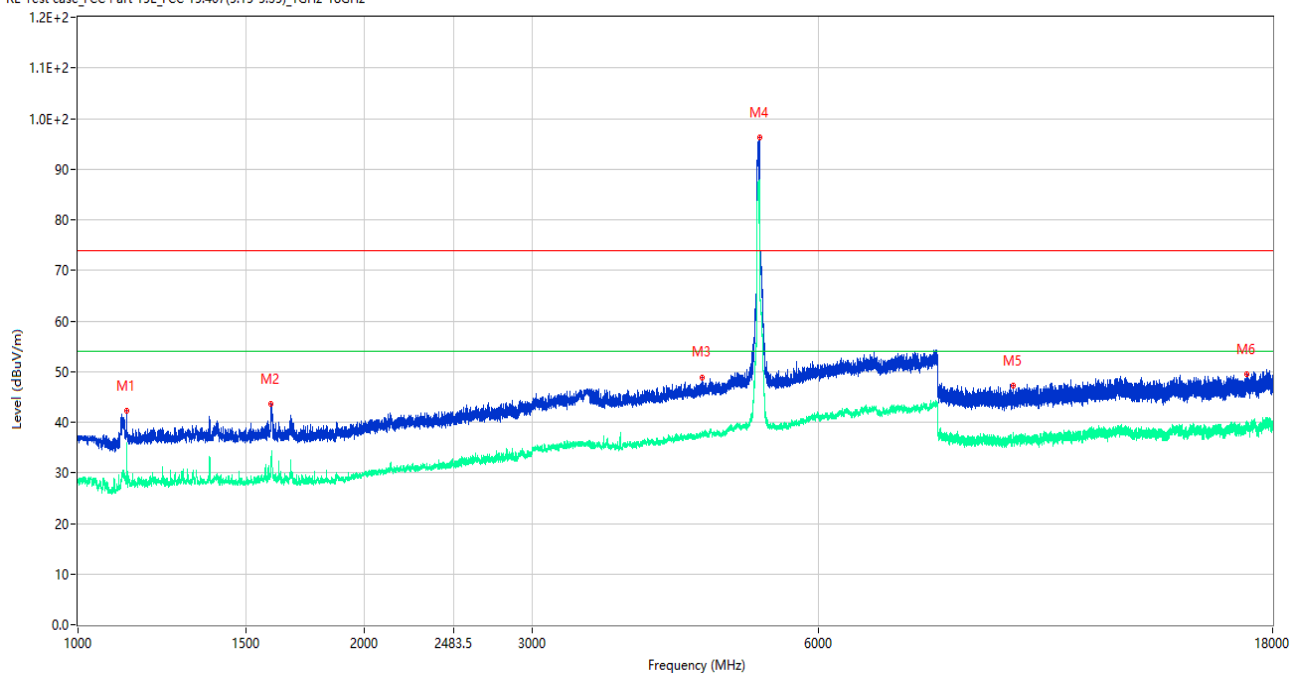
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1061.500	47.66	-15.26	74.0	26.34	Peak	144.00	150	Vertical	Pass
1**	1061.500	30.45	-15.26	54.0	23.55	AV	144.00	150	Vertical	Pass
2	2129.250	46.96	-13.26	74.0	27.04	Peak	135.00	150	Vertical	Pass
2**	2129.250	36.49	-13.26	54.0	17.51	AV	135.00	150	Vertical	Pass
3	4775.000	49.16	-3.07	74.0	24.84	Peak	187.00	150	Vertical	Pass
3**	4775.000	37.84	-3.07	54.0	16.16	AV	187.00	150	Vertical	Pass
4	5224.000	98.64	-2.34	74.0	-24.64	Peak	256.00	150	Vertical	N/A
4**	5224.000	90.29	-2.34	54.0	-36.29	AV	256.00	150	Vertical	N/A
5	9142.612	47.52	-5.62	74.0	26.48	Peak	2.00	150	Vertical	Pass
5**	9142.612	36.78	-5.62	54.0	17.22	AV	2.00	150	Vertical	Pass
6	16554.412	49.36	-0.86	74.0	24.64	Peak	0.00	150	Vertical	Pass
6**	16554.412	37.95	-0.86	54.0	16.05	AV	0.00	150	Vertical	Pass

11ac40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

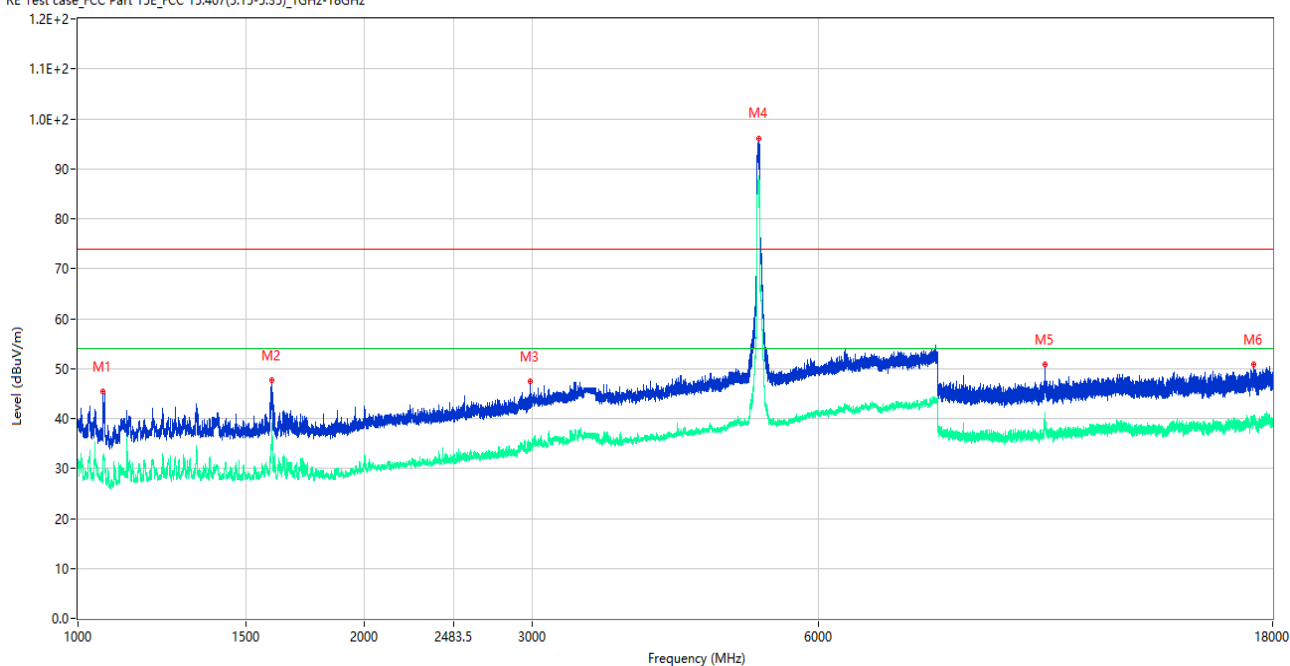
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1124.750	42.17	-15.65	74.0	31.83	Peak	192.00	150	Horizontal	Pass
1**	1124.750	34.64	-15.65	54.0	19.36	AV	192.00	150	Horizontal	Pass
2	1596.000	43.67	-16.24	74.0	30.33	Peak	52.00	150	Horizontal	Pass
2**	1596.000	33.28	-16.24	54.0	20.72	AV	52.00	150	Horizontal	Pass
3	4526.500	48.78	-2.41	74.0	25.22	Peak	99.00	150	Horizontal	Pass
3**	4526.500	37.39	-2.41	54.0	16.61	AV	99.00	150	Horizontal	Pass
4	5199.500	96.26	-2.35	74.0	-22.26	Peak	335.00	150	Horizontal	N/A
4**	5199.500	87.66	-2.35	54.0	-33.66	AV	335.00	150	Horizontal	N/A
5	9614.050	47.17	-3.30	74.0	26.83	Peak	309.00	150	Horizontal	Pass
5**	9614.050	36.65	-3.30	54.0	17.35	AV	309.00	150	Horizontal	Pass
6	16917.188	49.43	-0.84	74.0	24.57	Peak	0.00	150	Horizontal	Pass
6**	16917.188	39.10	-0.84	54.0	14.90	AV	0.00	150	Horizontal	Pass

11ac40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

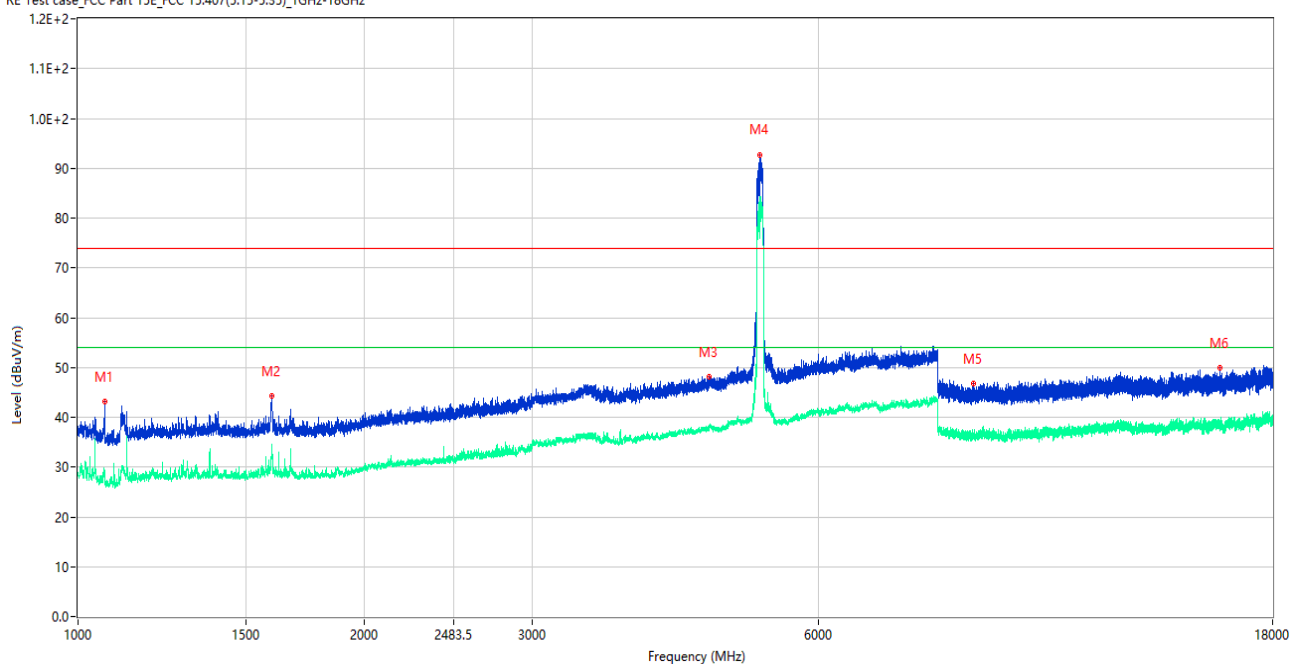
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.000	45.50	-15.24	74.0	28.50	Peak	121.00	150	Vertical	Pass
1**	1063.000	31.70	-15.24	54.0	22.30	AV	121.00	150	Vertical	Pass
2	1597.750	47.73	-16.21	74.0	26.27	Peak	144.00	150	Vertical	Pass
2**	1597.750	38.39	-16.21	54.0	15.61	AV	144.00	150	Vertical	Pass
3	2983.250	47.40	-9.30	74.0	26.60	Peak	160.00	150	Vertical	Pass
3**	2983.250	34.46	-9.30	54.0	19.54	AV	160.00	150	Vertical	Pass
4	5193.500	96.02	-2.31	74.0	-22.02	Peak	258.00	150	Vertical	N/A
4**	5193.500	88.32	-2.31	54.0	-34.32	AV	258.00	150	Vertical	N/A
5	10379.750	50.74	-3.39	74.0	23.26	Peak	76.00	150	Vertical	Pass
5**	10379.750	39.58	-3.39	54.0	14.42	AV	76.00	150	Vertical	Pass
6	17181.262	50.83	-0.05	74.0	23.17	Peak	46.00	150	Vertical	Pass
6**	17181.262	39.50	-0.05	54.0	14.50	AV	46.00	150	Vertical	Pass

11ac80, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

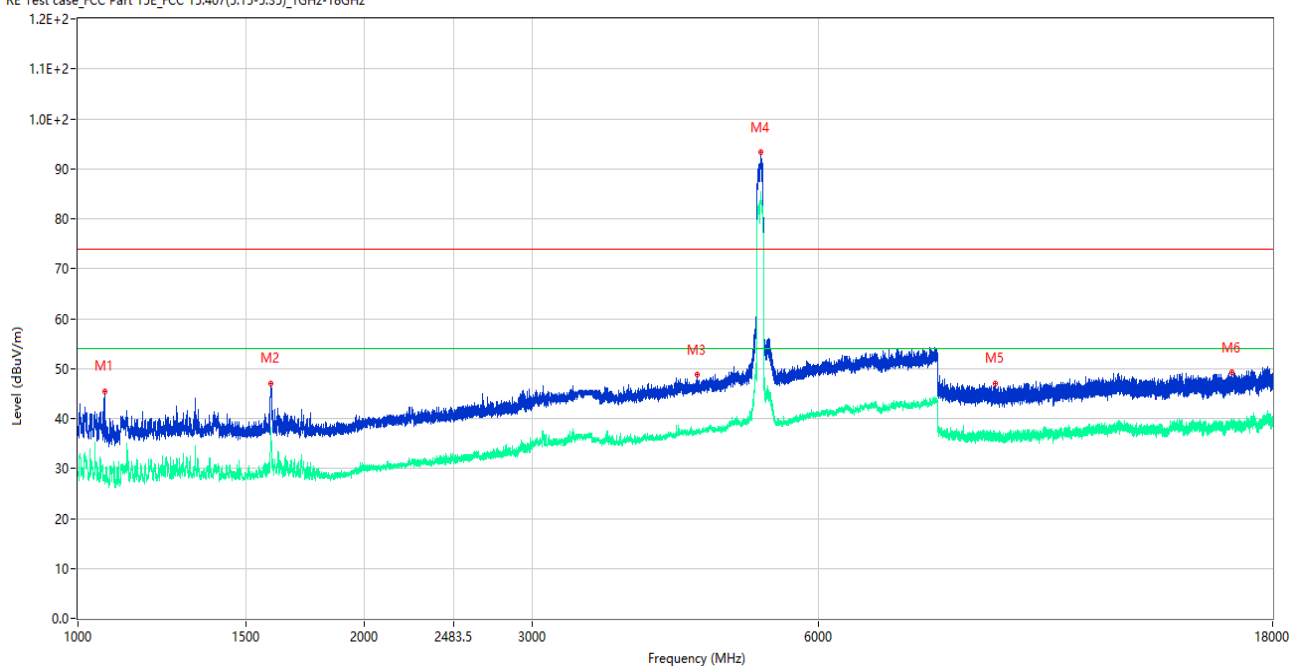
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1066.250	43.15	-15.14	74.0	30.85	Peak	54.00	150	Horizontal	Pass
1**	1066.250	29.28	-15.14	54.0	24.72	AV	54.00	150	Horizontal	Pass
2	1599.750	44.36	-16.24	74.0	29.64	Peak	117.00	150	Horizontal	Pass
2**	1599.750	33.54	-16.24	54.0	20.46	AV	117.00	150	Horizontal	Pass
3	4600.500	48.22	-3.62	74.0	25.78	Peak	360.00	150	Horizontal	Pass
3**	4600.500	37.49	-3.62	54.0	16.51	AV	360.00	150	Horizontal	Pass
4	5203.000	92.76	-2.37	74.0	-18.76	Peak	321.00	150	Horizontal	N/A
4**	5203.000	83.85	-2.37	54.0	-29.85	AV	321.00	150	Horizontal	N/A
5	8719.388	46.74	-5.25	74.0	27.26	Peak	358.00	150	Horizontal	Pass
5**	8719.388	36.05	-5.25	54.0	17.95	AV	358.00	150	Horizontal	Pass
6	15831.487	49.85	-1.43	74.0	24.15	Peak	13.00	150	Horizontal	Pass
6**	15831.487	38.72	-1.43	54.0	15.28	AV	13.00	150	Horizontal	Pass

11ac80, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

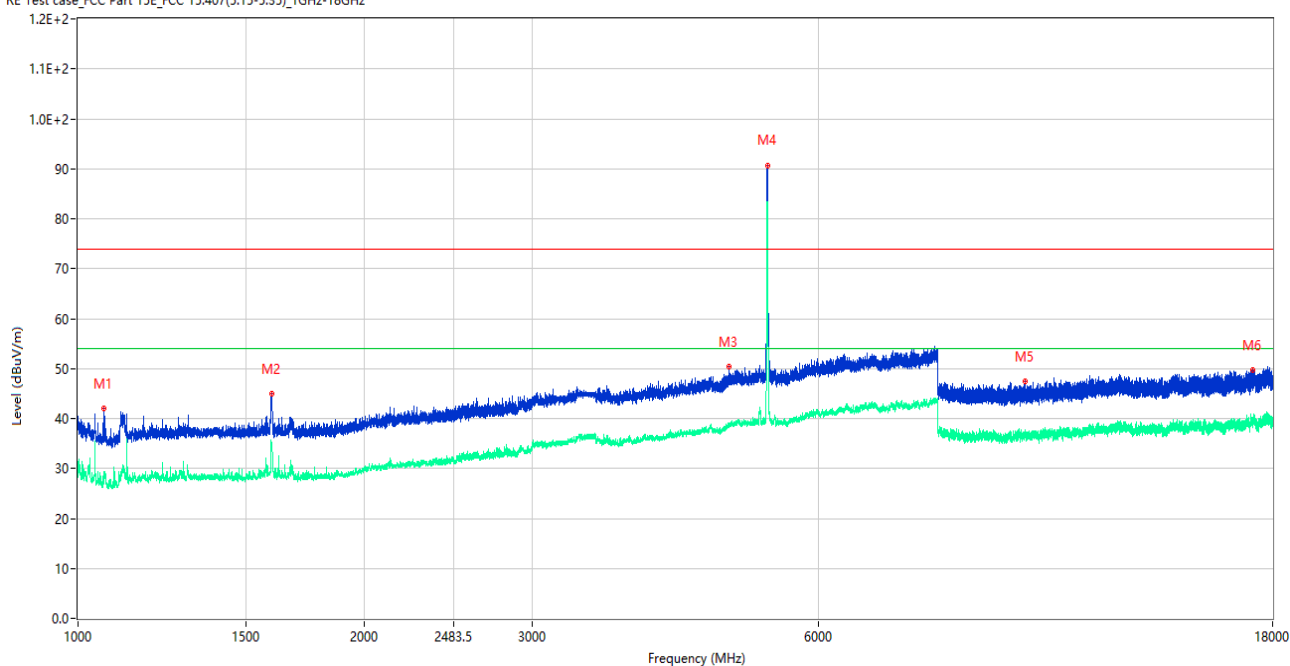
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1066.000	45.53	-15.14	74.0	28.47	Peak	117.00	150	Vertical	Pass
1**	1066.000	27.62	-15.14	54.0	26.38	AV	117.00	150	Vertical	Pass
2	1593.000	47.09	-16.21	74.0	26.91	Peak	132.00	150	Vertical	Pass
2**	1593.000	35.50	-16.21	54.0	18.50	AV	132.00	150	Vertical	Pass
3	4477.000	48.79	-3.75	74.0	25.21	Peak	192.00	150	Vertical	Pass
3**	4477.000	37.12	-3.75	54.0	16.88	AV	192.00	150	Vertical	Pass
4	5218.000	93.27	-2.38	74.0	-19.27	Peak	250.00	150	Vertical	N/A
4**	5218.000	85.05	-2.38	54.0	-31.05	AV	250.00	150	Vertical	N/A
5	9200.088	47.09	-5.57	74.0	26.91	Peak	27.00	150	Vertical	Pass
5**	9200.088	36.33	-5.57	54.0	17.67	AV	27.00	150	Vertical	Pass
6	16291.912	49.24	-1.46	74.0	24.76	Peak	12.00	150	Vertical	Pass
6**	16291.912	38.97	-1.46	54.0	15.03	AV	12.00	150	Vertical	Pass

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

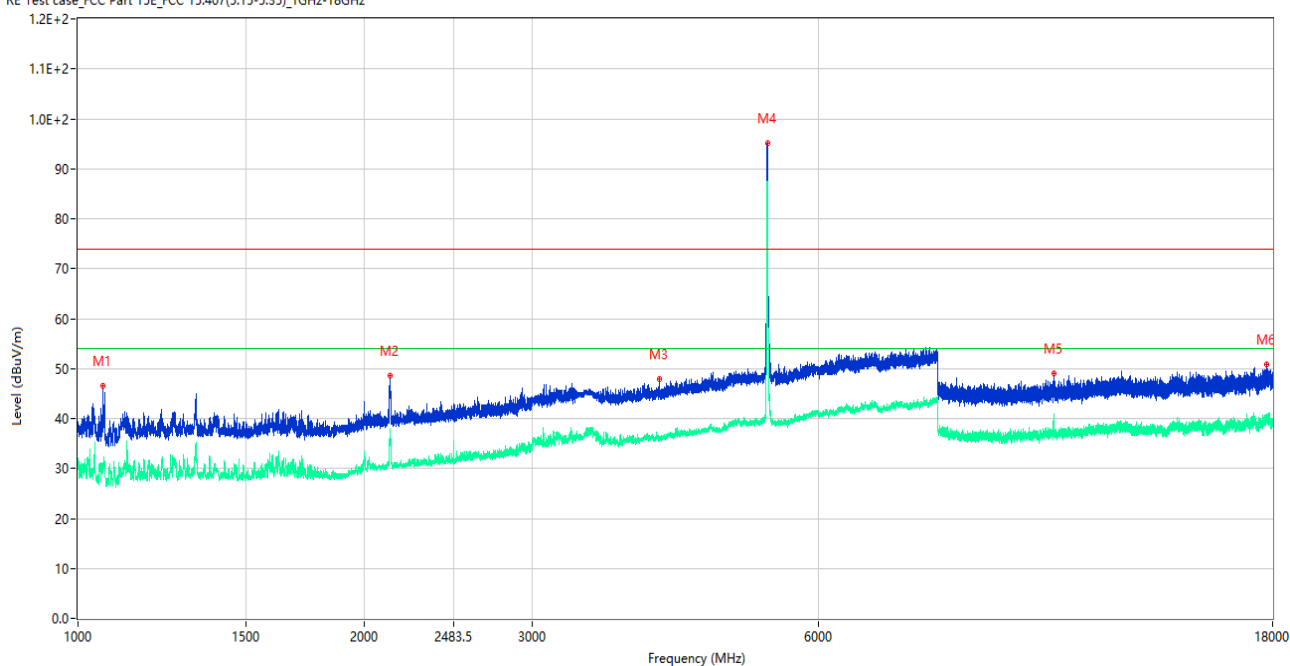
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.500	41.96	-15.16	74.0	32.04	Peak	54.00	150	Horizontal	Pass
1**	1065.500	28.89	-15.16	54.0	25.11	AV	54.00	150	Horizontal	Pass
2	1598.250	44.98	-16.21	74.0	29.02	Peak	87.00	150	Horizontal	Pass
2**	1598.250	34.61	-16.21	54.0	19.39	AV	87.00	150	Horizontal	Pass
3	4835.000	50.40	-2.17	74.0	23.60	Peak	20.00	150	Horizontal	Pass
3**	4835.000	38.91	-2.17	54.0	15.09	AV	20.00	150	Horizontal	Pass
4	5303.000	90.71	-2.03	74.0	-16.71	Peak	309.00	150	Horizontal	N/A
4**	5303.000	82.91	-2.03	54.0	-28.91	AV	309.00	150	Horizontal	N/A
5	9889.075	47.39	-4.16	74.0	26.61	Peak	333.00	150	Horizontal	Pass
5**	9889.075	37.05	-4.16	54.0	16.95	AV	333.00	150	Horizontal	Pass
6	17136.900	49.70	-0.12	74.0	24.30	Peak	314.00	150	Horizontal	Pass
6**	17136.900	39.00	-0.12	54.0	15.00	AV	314.00	150	Horizontal	Pass

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

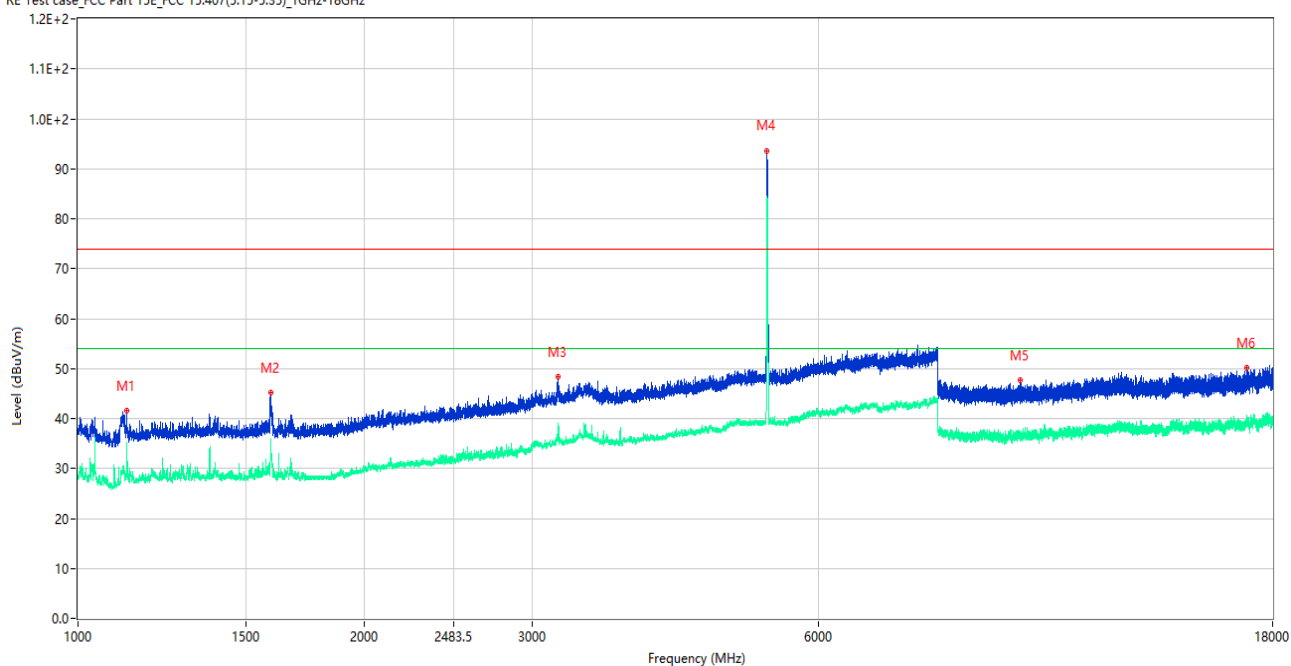
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.750	46.46	-15.24	74.0	27.54	Peak	169.00	150	Vertical	Pass
1**	1062.750	30.72	-15.24	54.0	23.28	AV	169.00	150	Vertical	Pass
2	2128.750	48.53	-13.26	74.0	25.47	Peak	138.00	150	Vertical	Pass
2**	2128.750	36.25	-13.26	54.0	17.75	AV	138.00	150	Vertical	Pass
3	4086.000	47.88	-5.01	74.0	26.12	Peak	131.00	150	Vertical	Pass
3**	4086.000	35.89	-5.01	54.0	18.11	AV	131.00	150	Vertical	Pass
4	5305.000	95.21	-2.03	74.0	-21.21	Peak	300.00	150	Vertical	N/A
4**	5305.000	86.47	-2.03	54.0	-32.47	AV	300.00	150	Vertical	N/A
5	10601.099	49.02	-3.67	74.0	24.98	Peak	98.00	150	Vertical	Pass
5**	10601.099	39.44	-3.67	54.0	14.56	AV	98.00	150	Vertical	Pass
6	17749.574	50.76	0.73	74.0	23.24	Peak	11.00	150	Vertical	Pass
6**	17749.574	40.17	0.73	54.0	13.83	AV	11.00	150	Vertical	Pass

11ac20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

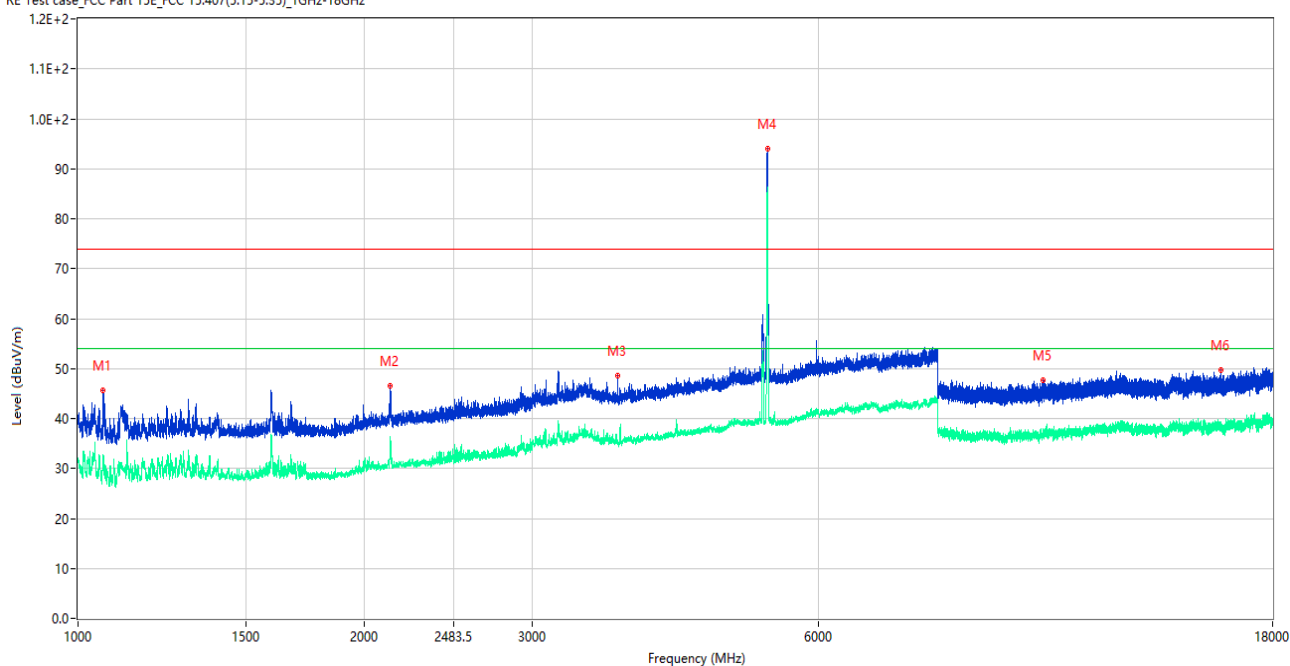
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1125.250	41.54	-15.64	74.0	32.46	Peak	185.00	150	Horizontal	Pass
1**	1125.250	34.54	-15.64	54.0	19.46	AV	185.00	150	Horizontal	Pass
2	1592.500	45.15	-16.21	74.0	28.85	Peak	101.00	150	Horizontal	Pass
2**	1592.500	32.04	-16.21	54.0	21.96	AV	101.00	150	Horizontal	Pass
3	3193.500	48.37	-7.69	74.0	25.63	Peak	170.00	150	Horizontal	Pass
3**	3193.500	38.52	-7.69	54.0	15.48	AV	170.00	150	Horizontal	Pass
4	5299.000	93.65	-2.01	74.0	-19.65	Peak	308.00	150	Horizontal	N/A
4**	5299.000	83.94	-2.01	54.0	-29.94	AV	308.00	150	Horizontal	N/A
5	9762.013	47.58	-3.54	74.0	26.42	Peak	216.00	150	Horizontal	Pass
5**	9762.013	36.32	-3.54	54.0	17.68	AV	216.00	150	Horizontal	Pass
6	16895.926	50.07	-0.49	74.0	23.93	Peak	0.00	150	Horizontal	Pass
6**	16895.926	39.82	-0.49	54.0	14.18	AV	0.00	150	Horizontal	Pass

11ac20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

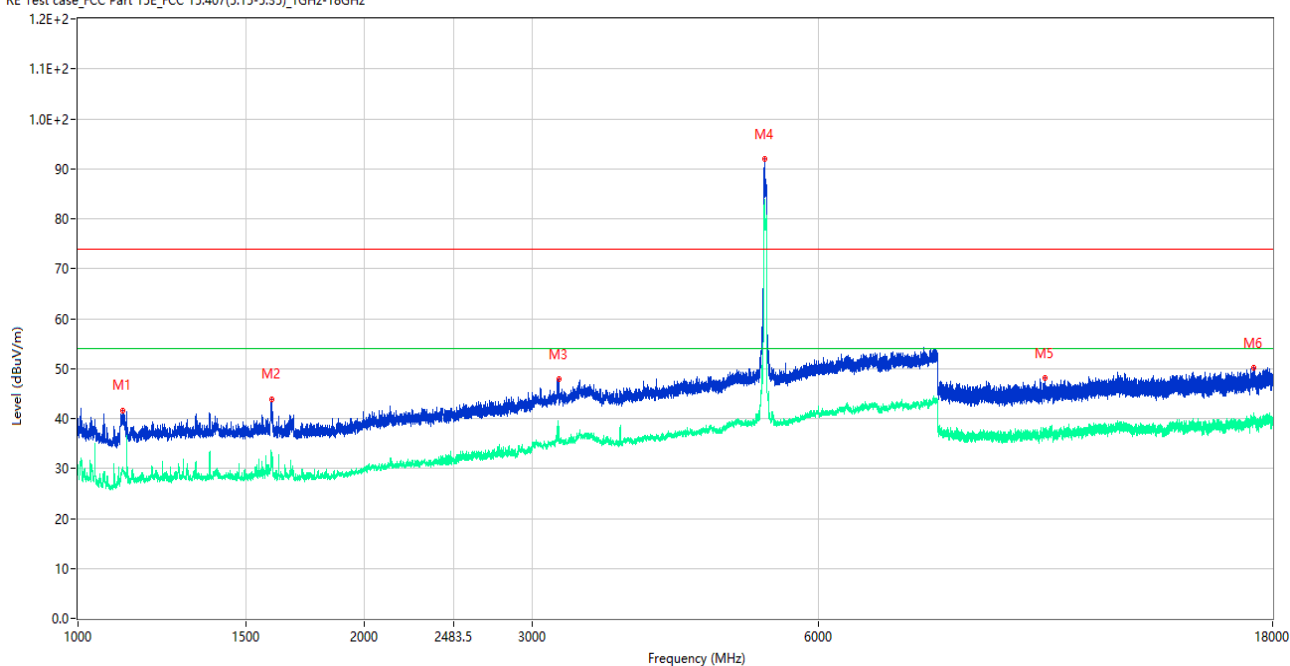
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.000	45.72	-15.24	74.0	28.28	Peak	135.00	150	Vertical	Pass
1**	1063.000	32.45	-15.24	54.0	21.55	AV	135.00	150	Vertical	Pass
2	2130.250	46.51	-13.26	74.0	27.49	Peak	149.00	150	Vertical	Pass
2**	2130.250	35.53	-13.26	54.0	18.47	AV	149.00	150	Vertical	Pass
3	3691.500	48.49	-5.82	74.0	25.51	Peak	207.00	150	Vertical	Pass
3**	3691.500	35.12	-5.82	54.0	18.88	AV	207.00	150	Vertical	Pass
4	5301.500	94.09	-2.07	74.0	-20.09	Peak	237.00	150	Vertical	N/A
4**	5301.500	86.32	-2.07	54.0	-32.32	AV	237.00	150	Vertical	N/A
5	10325.125	47.64	-3.24	74.0	26.36	Peak	333.00	150	Vertical	Pass
5**	10325.125	37.11	-3.24	54.0	16.89	AV	333.00	150	Vertical	Pass
6	15892.388	49.63	-1.56	74.0	24.37	Peak	359.00	150	Vertical	Pass
6**	15892.388	38.68	-1.56	54.0	15.32	AV	359.00	150	Vertical	Pass

11ac40, U-NII-2A, 1 GHz to 18 GHz, High Channel, ANT H

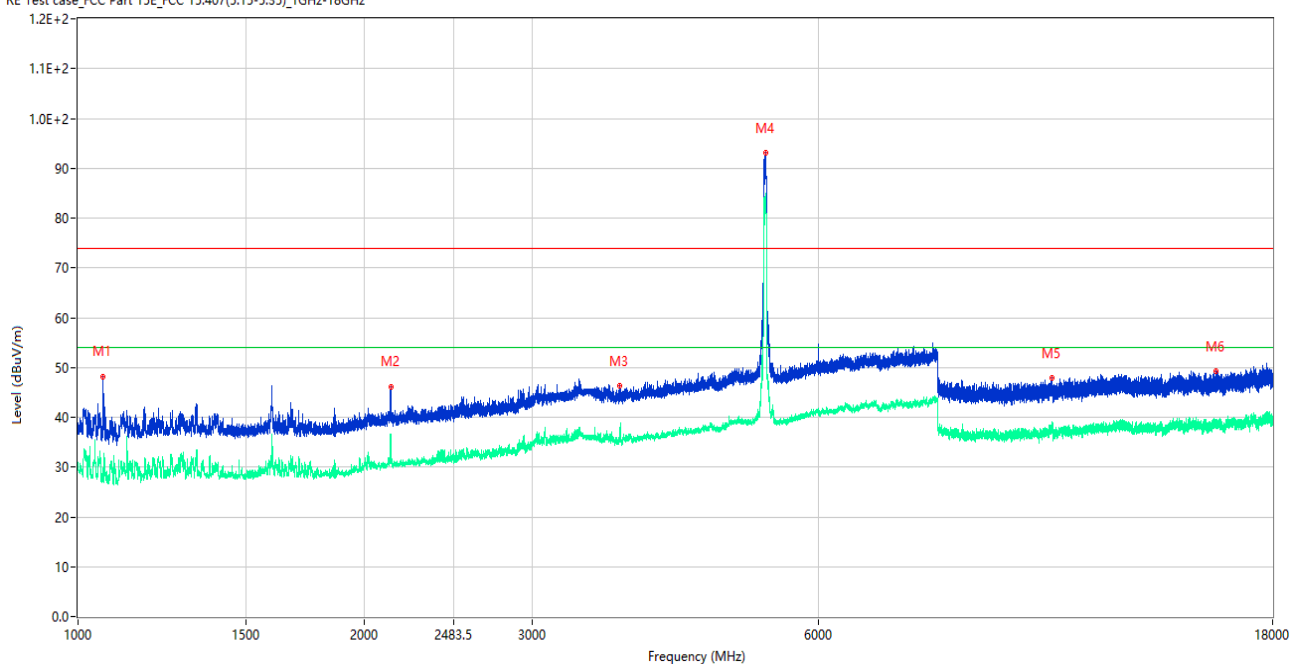
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1113.750	41.69	-15.77	74.0	32.31	Peak	173.00	150	Horizontal	Pass
1**	1113.750	29.57	-15.77	54.0	24.43	AV	173.00	150	Horizontal	Pass
2	1597.750	43.94	-16.21	74.0	30.06	Peak	81.00	150	Horizontal	Pass
2**	1597.750	32.06	-16.21	54.0	21.94	AV	81.00	150	Horizontal	Pass
3	3198.500	47.87	-7.76	74.0	26.13	Peak	176.00	150	Horizontal	Pass
3**	3198.500	37.63	-7.76	54.0	16.37	AV	176.00	150	Horizontal	Pass
4	5267.000	91.93	-2.39	74.0	-17.93	Peak	326.00	150	Horizontal	N/A
4**	5267.000	83.85	-2.39	54.0	-29.85	AV	326.00	150	Horizontal	N/A
5	10366.925	48.14	-3.25	74.0	25.86	Peak	145.00	150	Horizontal	Pass
5**	10366.925	36.99	-3.25	54.0	17.01	AV	145.00	150	Horizontal	Pass
6	17187.037	50.11	0.15	74.0	23.89	Peak	0.00	150	Horizontal	Pass
6**	17187.037	39.80	0.15	54.0	14.20	AV	0.00	150	Horizontal	Pass

11ac40, U-NII-2A, 1 GHz to 18 GHz, High Channel, ANT V

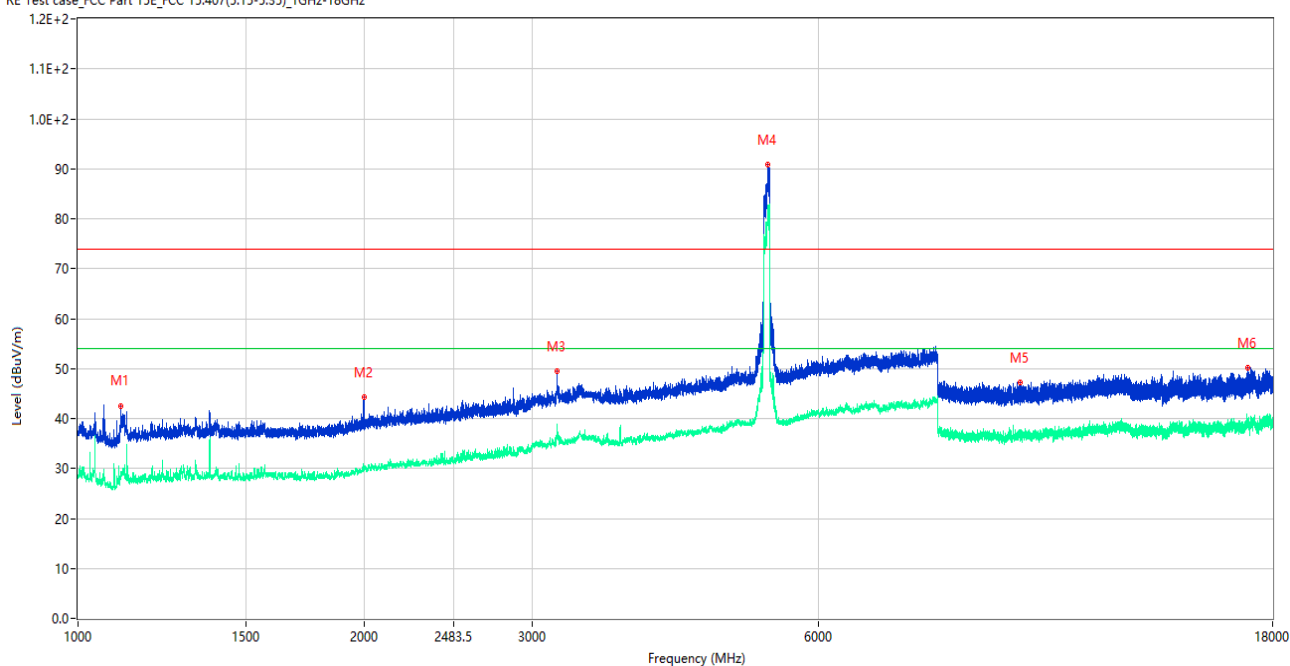
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.750	48.06	-15.24	74.0	25.94	Peak	137.00	150	Vertical	Pass
1**	1062.750	28.04	-15.24	54.0	25.96	AV	137.00	150	Vertical	Pass
2	2130.500	46.19	-13.26	74.0	27.81	Peak	123.00	150	Vertical	Pass
2**	2130.500	36.12	-13.26	54.0	17.88	AV	123.00	150	Vertical	Pass
3	3712.500	46.39	-4.79	74.0	27.61	Peak	251.00	150	Vertical	Pass
3**	3712.500	37.24	-4.79	54.0	16.76	AV	251.00	150	Vertical	Pass
4	5277.500	93.00	-2.36	74.0	-19.00	Peak	149.00	150	Vertical	N/A
4**	5277.500	84.26	-2.36	54.0	-30.26	AV	149.00	150	Vertical	N/A
5	10548.612	47.93	-3.11	74.0	26.07	Peak	286.00	150	Vertical	Pass
5**	10548.612	37.46	-3.11	54.0	16.54	AV	286.00	150	Vertical	Pass
6	15712.312	49.27	-1.82	74.0	24.73	Peak	0.00	150	Vertical	Pass
6**	15712.312	39.16	-1.82	54.0	14.84	AV	0.00	150	Vertical	Pass

11ac80, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

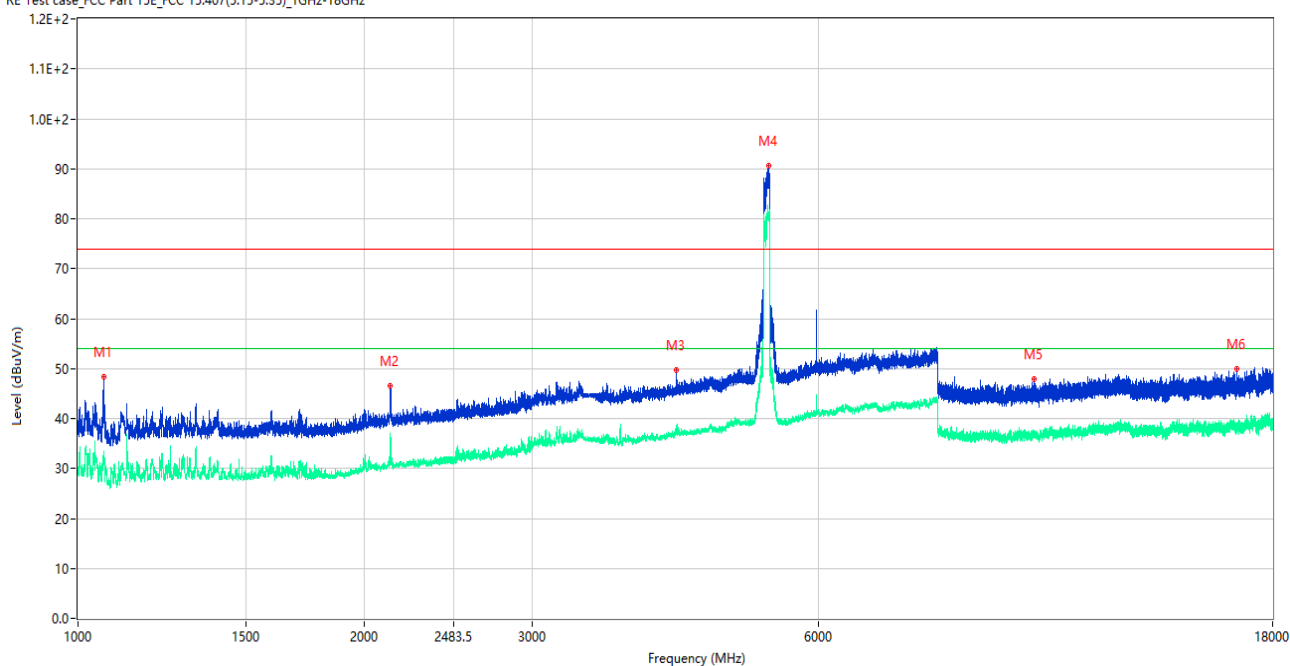
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1110.250	42.37	-15.76	74.0	31.63	Peak	184.00	150	Horizontal	Pass
1**	1110.250	29.09	-15.76	54.0	24.91	AV	184.00	150	Horizontal	Pass
2	2000.000	44.36	-14.31	74.0	29.64	Peak	212.00	150	Horizontal	Pass
2**	2000.000	29.93	-14.31	54.0	24.07	AV	212.00	150	Horizontal	Pass
3	3188.000	49.43	-7.58	74.0	24.57	Peak	325.00	150	Horizontal	Pass
3**	3188.000	37.81	-7.58	54.0	16.19	AV	325.00	150	Horizontal	Pass
4	5306.500	90.87	-2.01	74.0	-16.87	Peak	267.00	150	Horizontal	N/A
4**	5306.500	82.58	-2.01	54.0	-28.58	AV	267.00	150	Horizontal	N/A
5	9771.987	47.23	-3.55	74.0	26.77	Peak	168.00	150	Horizontal	Pass
5**	9771.987	36.46	-3.55	54.0	17.54	AV	168.00	150	Horizontal	Pass
6	16933.463	50.16	-1.07	74.0	23.84	Peak	0.00	150	Horizontal	Pass
6**	16933.463	38.68	-1.07	54.0	15.32	AV	0.00	150	Horizontal	Pass

11ac80, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

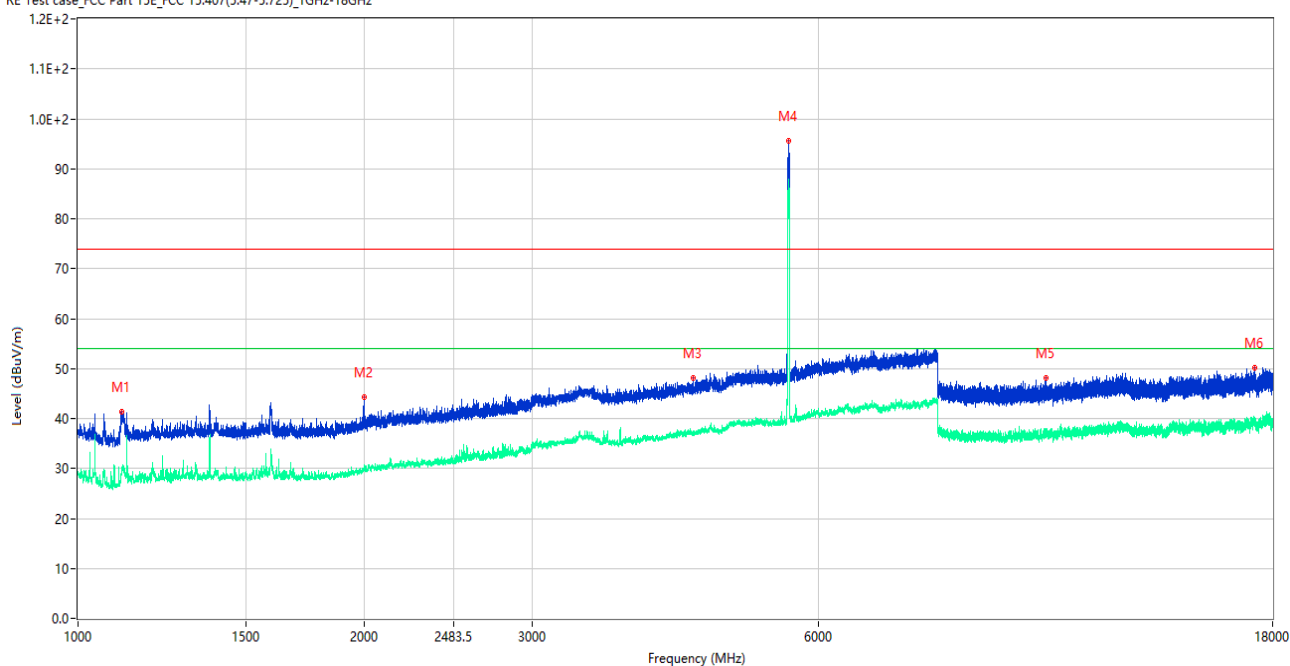
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.500	48.38	-15.20	74.0	25.62	Peak	132.00	150	Vertical	Pass
1**	1064.500	32.68	-15.20	54.0	21.32	AV	132.00	150	Vertical	Pass
2	2129.500	46.54	-13.26	74.0	27.46	Peak	132.00	150	Vertical	Pass
2**	2129.500	36.40	-13.26	54.0	17.60	AV	132.00	150	Vertical	Pass
3	4255.000	49.66	-3.97	74.0	24.34	Peak	118.00	150	Vertical	Pass
3**	4255.000	37.47	-3.97	54.0	16.53	AV	118.00	150	Vertical	Pass
4	5325.000	90.70	-2.47	74.0	-16.70	Peak	296.00	150	Vertical	N/A
4**	5325.000	81.20	-2.47	54.0	-27.20	AV	296.00	150	Vertical	N/A
5	10101.401	47.84	-3.91	74.0	26.16	Peak	48.00	150	Vertical	Pass
5**	10101.401	36.77	-3.91	54.0	17.23	AV	48.00	150	Vertical	Pass
6	16514.512	49.99	-1.52	74.0	24.01	Peak	47.00	150	Vertical	Pass
6**	16514.512	37.97	-1.52	54.0	16.03	AV	47.00	150	Vertical	Pass

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

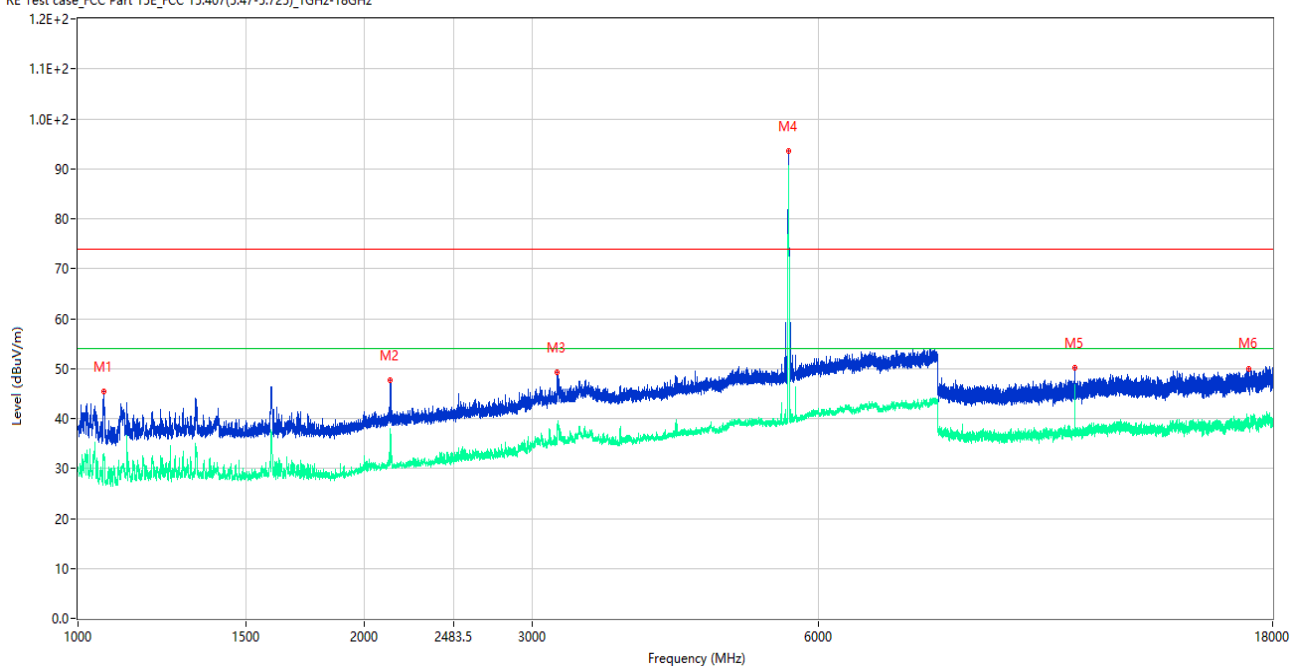
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1111.000	41.34	-15.76	74.0	32.66	Peak	179.00	150	Horizontal	Pass
1**	1111.000	29.22	-15.76	54.0	24.78	AV	179.00	150	Horizontal	Pass
2	1998.000	44.34	-14.39	74.0	29.66	Peak	156.00	150	Horizontal	Pass
2**	1998.000	29.63	-14.39	54.0	24.37	AV	156.00	150	Horizontal	Pass
3	4429.000	48.11	-2.96	74.0	25.89	Peak	78.00	150	Horizontal	Pass
3**	4429.000	36.76	-2.96	54.0	17.24	AV	78.00	150	Horizontal	Pass
4	5581.500	95.55	-2.85	74.0	-21.55	Peak	280.00	150	Horizontal	N/A
4**	5581.500	87.24	-2.85	54.0	-33.24	AV	280.00	150	Horizontal	N/A
5	10414.900	48.19	-3.31	74.0	25.81	Peak	310.00	150	Horizontal	Pass
5**	10414.900	36.75	-3.31	54.0	17.25	AV	310.00	150	Horizontal	Pass
6	17227.725	50.10	-0.43	74.0	23.90	Peak	117.00	150	Horizontal	Pass
6**	17227.725	39.87	-0.43	54.0	14.13	AV	117.00	150	Horizontal	Pass

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

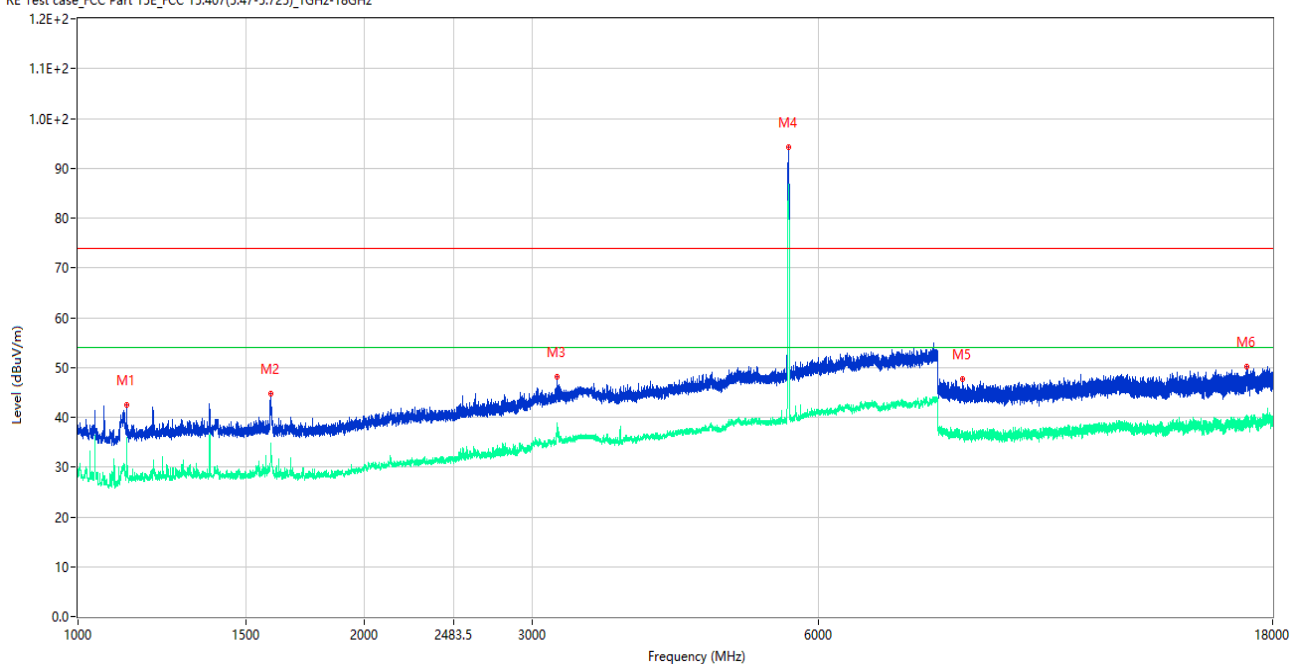
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.250	45.45	-15.21	74.0	28.55	Peak	132.00	150	Vertical	Pass
1**	1064.250	31.84	-15.21	54.0	22.16	AV	132.00	150	Vertical	Pass
2	2128.000	47.70	-13.25	74.0	26.30	Peak	141.00	150	Vertical	Pass
2**	2128.000	37.47	-13.25	54.0	16.53	AV	141.00	150	Vertical	Pass
3	3189.000	49.30	-7.60	74.0	24.70	Peak	160.00	150	Vertical	Pass
3**	3189.000	37.68	-7.60	54.0	16.32	AV	160.00	150	Vertical	Pass
4	5578.500	93.60	-2.88	74.0	-19.60	Peak	309.00	150	Vertical	N/A
4**	5578.500	90.43	-2.88	54.0	-36.43	AV	309.00	150	Vertical	N/A
5	11160.175	50.09	-4.02	74.0	23.91	Peak	46.00	150	Vertical	Pass
5**	11160.175	46.70	-4.02	54.0	7.30	AV	46.00	150	Vertical	Pass
6	16975.199	50.06	-1.24	74.0	23.94	Peak	15.00	150	Vertical	Pass
6**	16975.199	40.08	-1.24	54.0	13.92	AV	15.00	150	Vertical	Pass

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

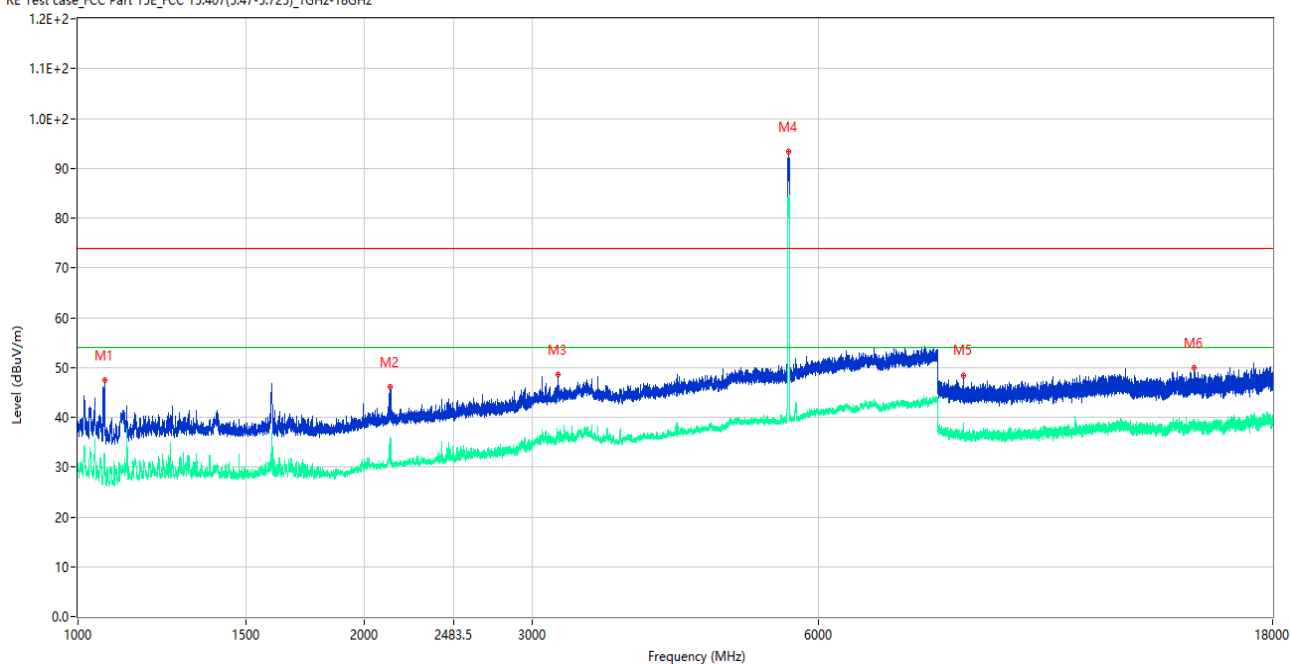
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1124.750	42.40	-15.65	74.0	31.60	Peak	176.00	150	Horizontal	Pass
1**	1124.750	33.28	-15.65	54.0	20.72	AV	176.00	150	Horizontal	Pass
2	1594.000	44.78	-16.21	74.0	29.22	Peak	88.00	150	Horizontal	Pass
2**	1594.000	34.24	-16.21	54.0	19.76	AV	88.00	150	Horizontal	Pass
3	3187.500	48.19	-7.58	74.0	25.81	Peak	217.00	150	Horizontal	Pass
3**	3187.500	37.63	-7.58	54.0	16.37	AV	217.00	150	Horizontal	Pass
4	5578.500	94.14	-2.88	74.0	-20.14	Peak	274.00	150	Horizontal	N/A
4**	5578.500	86.46	-2.88	54.0	-32.46	AV	274.00	150	Horizontal	N/A
5	8501.838	47.64	-4.68	74.0	26.36	Peak	193.00	150	Horizontal	Pass
5**	8501.838	36.38	-4.68	54.0	17.62	AV	193.00	150	Horizontal	Pass
6	16898.551	50.07	-0.79	74.0	23.93	Peak	15.00	150	Horizontal	Pass
6**	16898.551	39.34	-0.79	54.0	14.66	AV	15.00	150	Horizontal	Pass

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

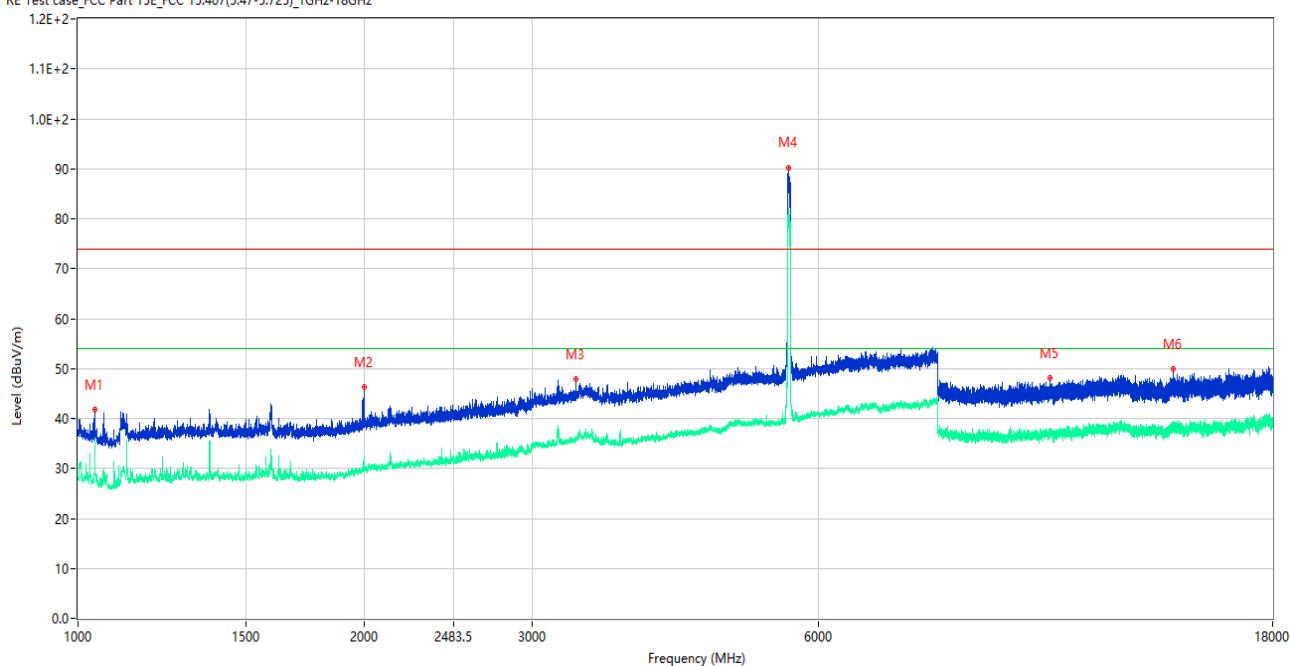
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1066.500	47.44	-15.15	74.0	26.56	Peak	138.00	150	Vertical	Pass
1**	1066.500	31.86	-15.15	54.0	22.14	AV	138.00	150	Vertical	Pass
2	2130.000	46.12	-13.26	74.0	27.88	Peak	117.00	150	Vertical	Pass
2**	2130.000	36.02	-13.26	54.0	17.98	AV	117.00	150	Vertical	Pass
3	3195.000	48.60	-7.76	74.0	25.40	Peak	319.00	150	Vertical	Pass
3**	3195.000	36.83	-7.76	54.0	17.17	AV	319.00	150	Vertical	Pass
4	5582.000	93.29	-2.85	74.0	-19.29	Peak	309.00	150	Vertical	N/A
4**	5582.000	82.60	-2.85	54.0	-28.60	AV	309.00	150	Vertical	N/A
5	8519.175	48.45	-4.91	74.0	25.55	Peak	118.00	150	Vertical	Pass
5**	8519.175	37.19	-4.91	54.0	16.81	AV	118.00	150	Vertical	Pass
6	14886.487	49.92	-1.93	74.0	24.08	Peak	151.00	150	Vertical	Pass
6**	14886.487	38.10	-1.93	54.0	15.90	AV	151.00	150	Vertical	Pass

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

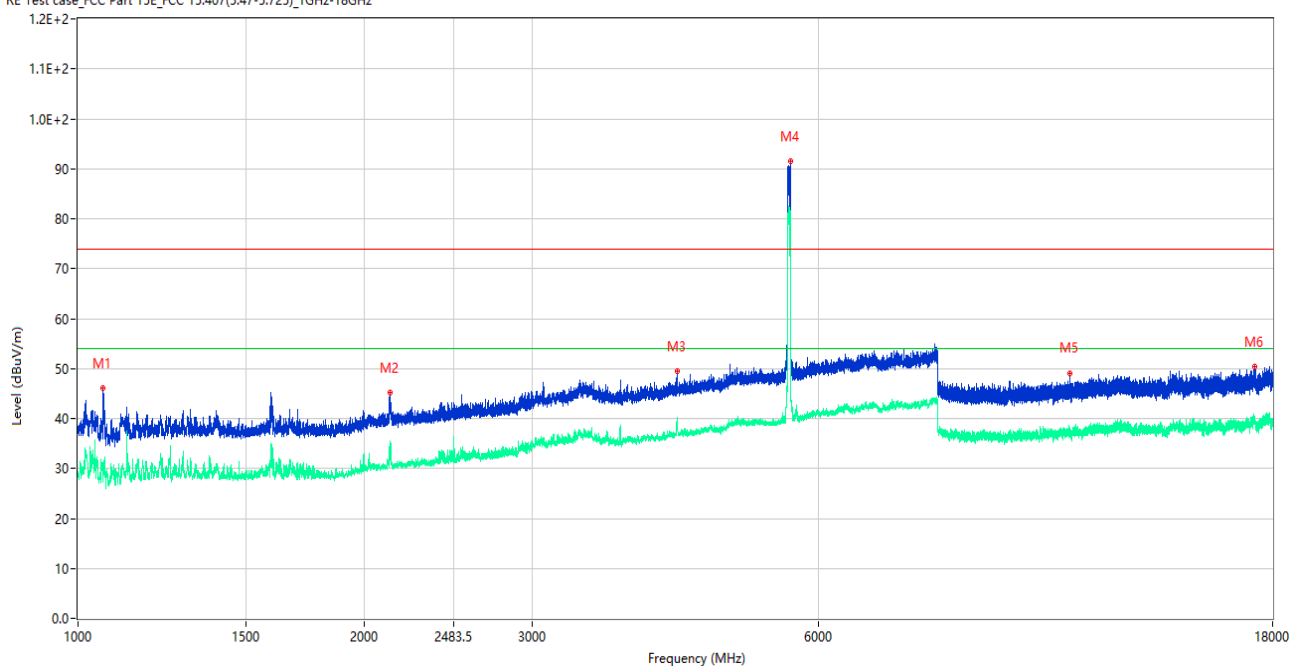
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1041.500	41.75	-15.37	74.0	32.25	Peak	251.00	150	Horizontal	Pass
1**	1041.500	36.19	-15.37	54.0	17.81	AV	251.00	150	Horizontal	Pass
2	1997.250	46.36	-14.42	74.0	27.64	Peak	110.00	150	Horizontal	Pass
2**	1997.250	29.60	-14.42	54.0	24.40	AV	110.00	150	Horizontal	Pass
3	3337.500	47.98	-6.07	74.0	26.02	Peak	285.00	150	Horizontal	Pass
3**	3337.500	36.28	-6.07	54.0	17.72	AV	285.00	150	Horizontal	Pass
4	5574.000	90.17	-2.95	74.0	-16.17	Peak	276.00	150	Horizontal	N/A
4**	5574.000	80.89	-2.95	54.0	-26.89	AV	276.00	150	Horizontal	N/A
5	10507.050	48.05	-3.32	74.0	25.95	Peak	215.00	150	Horizontal	Pass
5**	10507.050	37.06	-3.32	54.0	16.94	AV	215.00	150	Horizontal	Pass
6	14140.463	49.95	-1.25	74.0	24.05	Peak	14.00	150	Horizontal	Pass
6**	14140.463	39.13	-1.25	54.0	14.87	AV	14.00	150	Horizontal	Pass

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

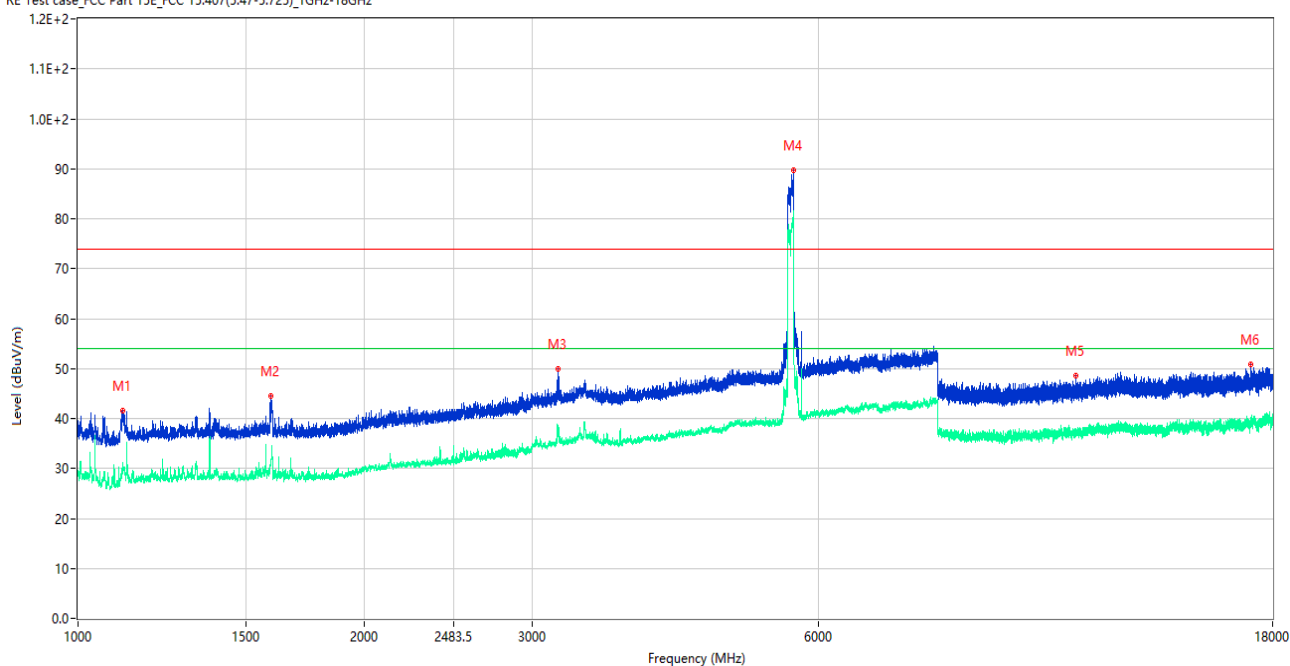
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.500	46.17	-15.25	74.0	27.83	Peak	148.00	150	Vertical	Pass
1**	1062.500	31.04	-15.25	54.0	22.96	AV	148.00	150	Vertical	Pass
2	2126.000	45.17	-13.30	74.0	28.83	Peak	123.00	150	Vertical	Pass
2**	2126.000	34.83	-13.30	54.0	19.17	AV	123.00	150	Vertical	Pass
3	4264.000	49.57	-3.82	74.0	24.43	Peak	114.00	150	Vertical	Pass
3**	4264.000	37.99	-3.82	54.0	16.01	AV	114.00	150	Vertical	Pass
4	5601.000	91.47	-2.81	74.0	-17.47	Peak	302.00	150	Vertical	N/A
4**	5601.000	81.57	-2.81	54.0	-27.57	AV	302.00	150	Vertical	N/A
5	11012.924	49.12	-3.22	74.0	24.88	Peak	286.00	150	Vertical	Pass
5**	11012.924	37.27	-3.22	54.0	16.73	AV	286.00	150	Vertical	Pass
6	17233.500	50.40	-0.47	74.0	23.60	Peak	360.00	150	Vertical	Pass
6**	17233.500	39.46	-0.47	54.0	14.54	AV	360.00	150	Vertical	Pass

11ac80, U-NII-2C, 1 GHz to 18 GHz, High Channel, ANT H

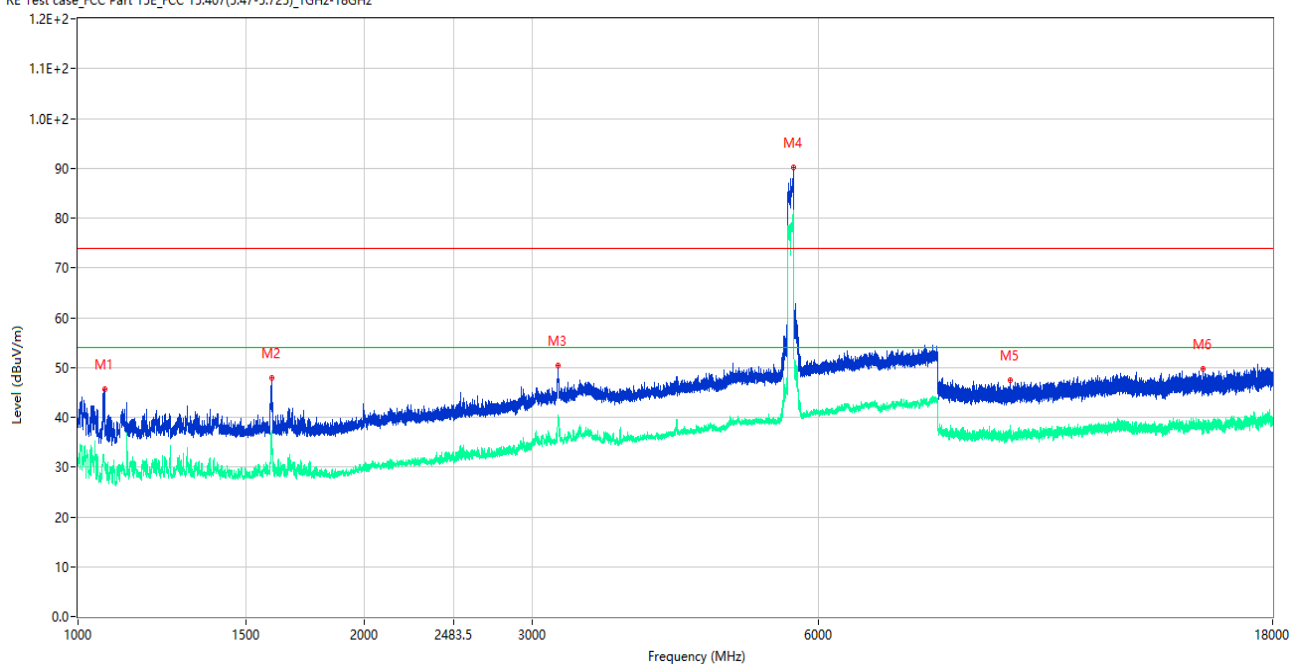
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1113.500	41.55	-15.77	74.0	32.45	Peak	180.00	150	Horizontal	Pass
1**	1113.500	29.03	-15.77	54.0	24.97	AV	180.00	150	Horizontal	Pass
2	1592.500	44.49	-16.21	74.0	29.51	Peak	81.00	150	Horizontal	Pass
2**	1592.500	31.23	-16.21	54.0	22.77	AV	81.00	150	Horizontal	Pass
3	3195.000	49.86	-7.76	74.0	24.14	Peak	218.00	150	Horizontal	Pass
3**	3195.000	35.89	-7.76	54.0	18.11	AV	218.00	150	Horizontal	Pass
4	5645.500	89.75	-2.74	74.0	-15.75	Peak	190.00	150	Horizontal	N/A
4**	5645.500	81.03	-2.74	54.0	-27.03	AV	190.00	150	Horizontal	N/A
5	11174.425	48.62	-4.10	74.0	25.38	Peak	53.00	150	Horizontal	Pass
5**	11174.425	36.62	-4.10	54.0	17.38	AV	53.00	150	Horizontal	Pass
6	17072.325	50.85	-0.61	74.0	23.15	Peak	185.00	150	Horizontal	Pass
6**	17072.325	39.52	-0.61	54.0	14.48	AV	185.00	150	Horizontal	Pass

11ac80, U-NII-2C, 1 GHz to 18 GHz, High Channel, ANT V

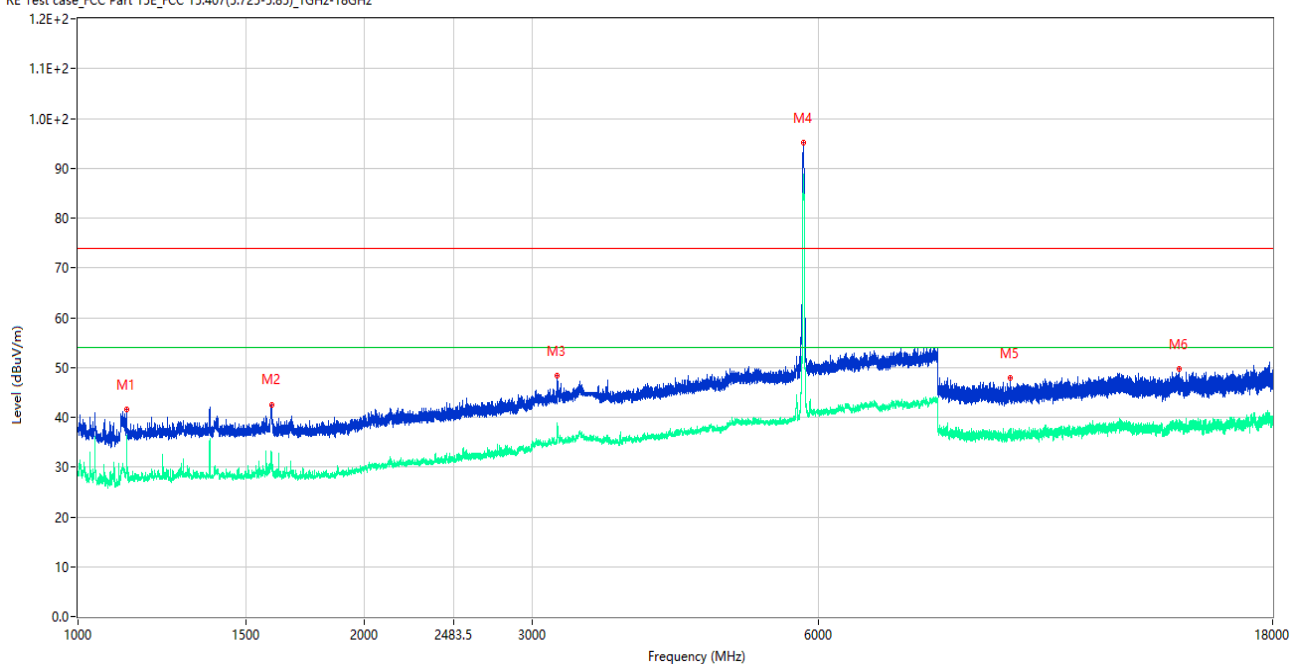
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1066.000	45.73	-15.14	74.0	28.27	Peak	136.00	150	Vertical	Pass
1**	1066.000	30.22	-15.14	54.0	23.78	AV	136.00	150	Vertical	Pass
2	1598.250	47.93	-16.21	74.0	26.07	Peak	108.00	150	Vertical	Pass
2**	1598.250	36.81	-16.21	54.0	17.19	AV	108.00	150	Vertical	Pass
3	3197.000	50.31	-7.80	74.0	23.69	Peak	139.00	150	Vertical	Pass
3**	3197.000	40.20	-7.80	54.0	13.80	AV	139.00	150	Vertical	Pass
4	5642.000	90.11	-2.80	74.0	-16.11	Peak	250.00	150	Vertical	N/A
4**	5642.000	80.76	-2.80	54.0	-26.76	AV	250.00	150	Vertical	N/A
5	9535.200	47.35	-3.38	74.0	26.65	Peak	8.00	150	Vertical	Pass
5**	9535.200	36.53	-3.38	54.0	17.47	AV	8.00	150	Vertical	Pass
6	15224.063	49.78	-1.81	74.0	24.22	Peak	348.00	150	Vertical	Pass
6**	15224.063	38.15	-1.81	54.0	15.85	AV	348.00	150	Vertical	Pass

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

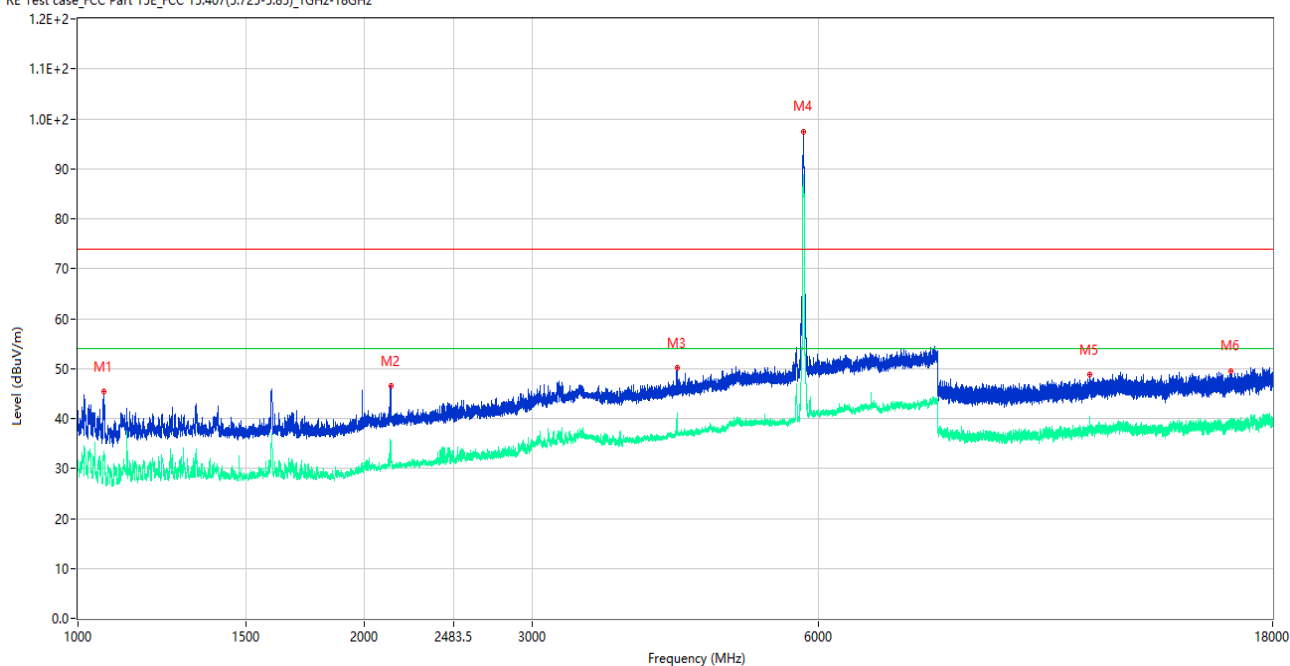
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1125.000	41.65	-15.64	74.0	32.35	Peak	184.00	150	Horizontal	Pass
1**	1125.000	33.33	-15.64	54.0	20.67	AV	184.00	150	Horizontal	Pass
2	1596.500	42.42	-16.23	74.0	31.58	Peak	5.00	150	Horizontal	Pass
2**	1596.500	31.83	-16.23	54.0	22.17	AV	5.00	150	Horizontal	Pass
3	3190.000	48.47	-7.62	74.0	25.53	Peak	350.00	150	Horizontal	Pass
3**	3190.000	37.80	-7.62	54.0	16.20	AV	350.00	150	Horizontal	Pass
4	5786.000	95.07	-1.53	74.0	-21.07	Peak	197.00	150	Horizontal	N/A
4**	5786.000	88.27	-1.53	54.0	-34.27	AV	197.00	150	Horizontal	N/A
5	9543.276	47.86	-2.79	74.0	26.14	Peak	2.00	150	Horizontal	Pass
5**	9543.276	37.12	-2.79	54.0	16.88	AV	2.00	150	Horizontal	Pass
6	14367.526	49.61	-1.43	74.0	24.39	Peak	115.00	150	Horizontal	Pass
6**	14367.526	38.70	-1.43	54.0	15.30	AV	115.00	150	Horizontal	Pass

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

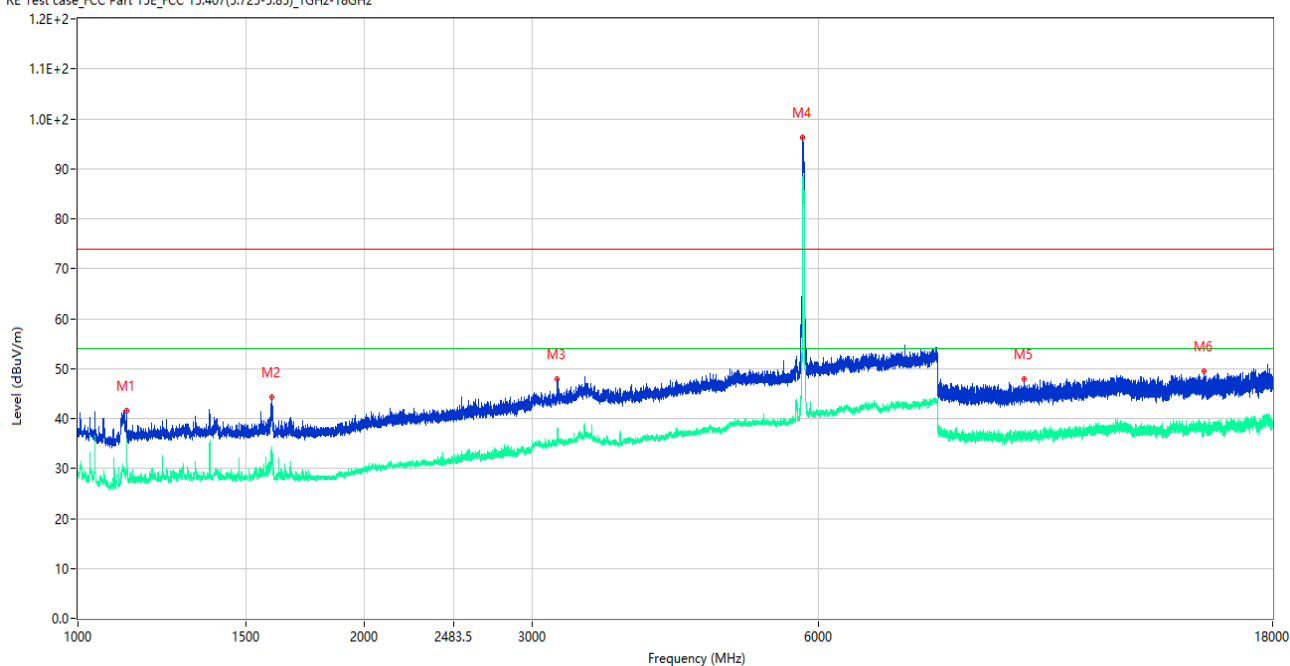
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.000	45.52	-15.18	74.0	28.48	Peak	156.00	150	Vertical	Pass
1**	1065.000	31.91	-15.18	54.0	22.09	AV	156.00	150	Vertical	Pass
2	2133.250	46.46	-13.38	74.0	27.54	Peak	115.00	150	Vertical	Pass
2**	2133.250	34.69	-13.38	54.0	19.31	AV	115.00	150	Vertical	Pass
3	4262.000	50.18	-3.94	74.0	23.82	Peak	156.00	150	Vertical	Pass
3**	4262.000	39.62	-3.94	54.0	14.38	AV	156.00	150	Vertical	Pass
4	5789.500	97.50	-1.52	74.0	-23.50	Peak	257.00	150	Vertical	N/A
4**	5789.500	88.60	-1.52	54.0	-34.60	AV	257.00	150	Vertical	N/A
5	11570.813	48.77	-2.37	74.0	25.23	Peak	333.00	150	Vertical	Pass
5**	11570.813	38.71	-2.37	54.0	15.29	AV	333.00	150	Vertical	Pass
6	16288.500	49.52	-1.49	74.0	24.48	Peak	0.00	150	Vertical	Pass
6**	16288.500	38.77	-1.49	54.0	15.23	AV	0.00	150	Vertical	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

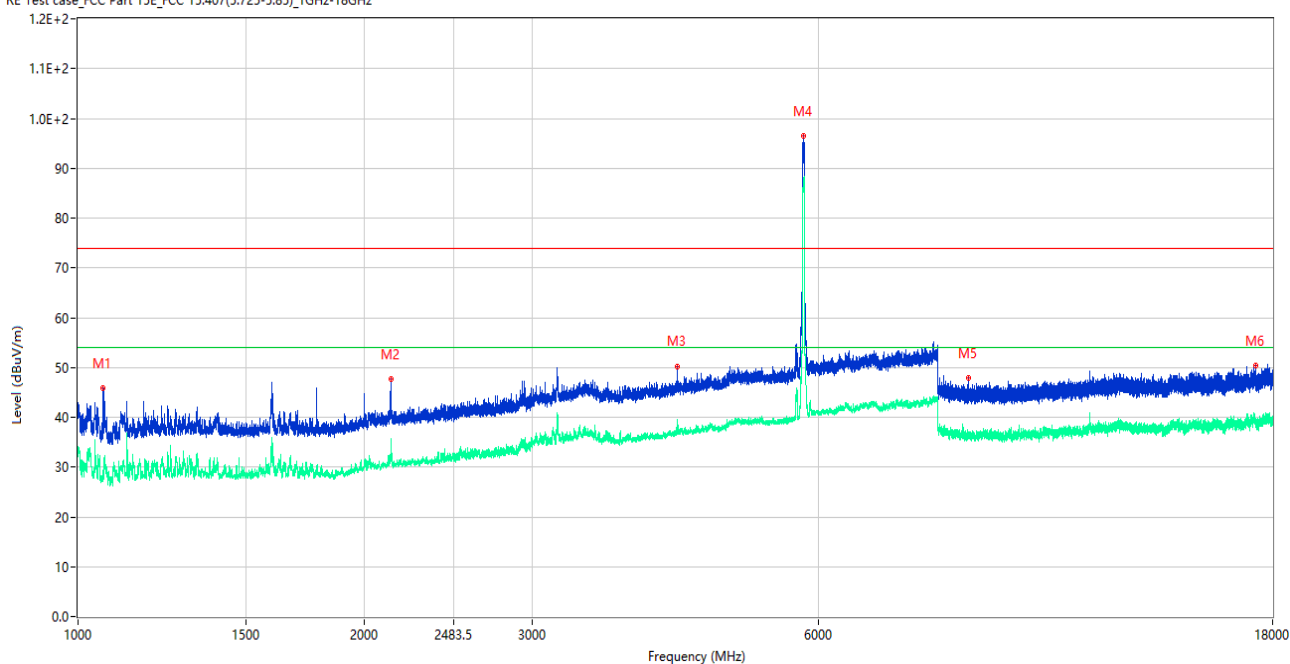
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1125.000	41.66	-15.64	74.0	32.34	Peak	180.00	150	Horizontal	Pass
1**	1125.000	35.20	-15.64	54.0	18.80	AV	180.00	150	Horizontal	Pass
2	1599.750	44.25	-16.24	74.0	29.75	Peak	88.00	150	Horizontal	Pass
2**	1599.750	33.01	-16.24	54.0	20.99	AV	88.00	150	Horizontal	Pass
3	3187.000	47.91	-7.57	74.0	26.09	Peak	346.00	150	Horizontal	Pass
3**	3187.000	37.20	-7.57	54.0	16.80	AV	346.00	150	Horizontal	Pass
4	5778.000	96.25	-1.53	74.0	-22.25	Peak	191.00	150	Horizontal	N/A
4**	5778.000	87.55	-1.53	54.0	-33.55	AV	191.00	150	Horizontal	N/A
5	9859.151	47.99	-4.14	74.0	26.01	Peak	354.00	150	Horizontal	Pass
5**	9859.151	36.54	-4.14	54.0	17.46	AV	354.00	150	Horizontal	Pass
6	15261.075	49.53	-1.05	74.0	24.47	Peak	0.00	150	Horizontal	Pass
6**	15261.075	38.22	-1.05	54.0	15.78	AV	0.00	150	Horizontal	Pass

11ac20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

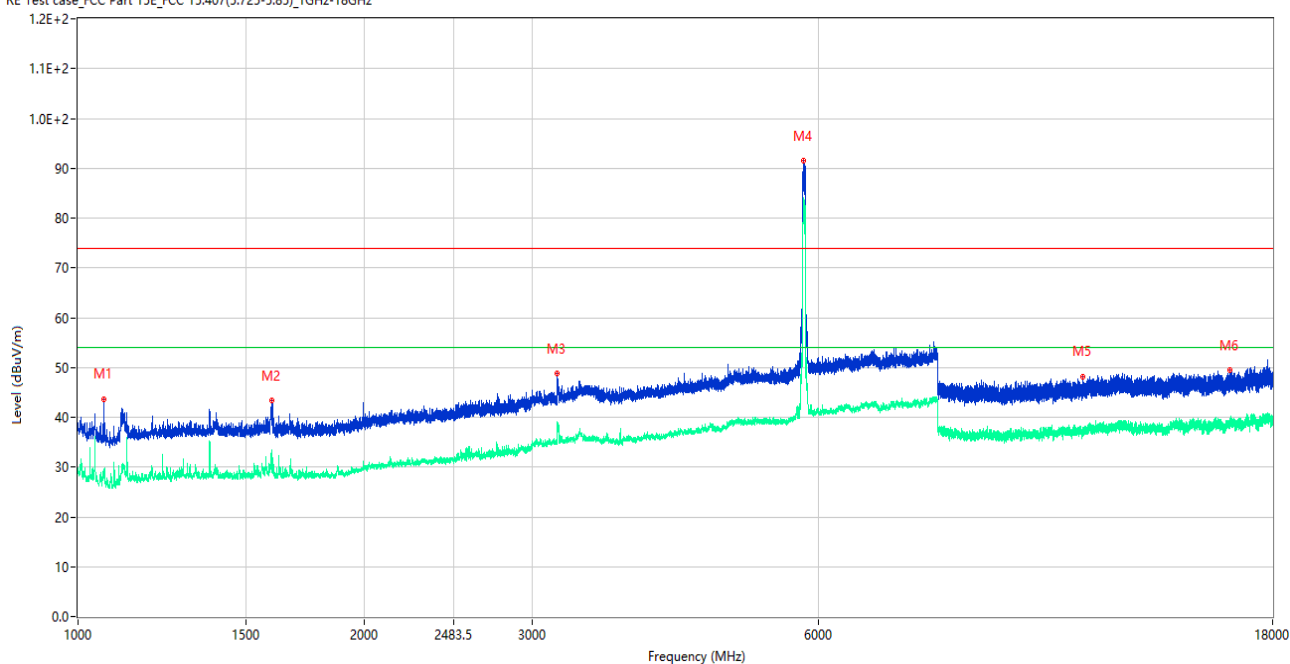
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1061.750	45.96	-15.26	74.0	28.04	Peak	136.00	150	Vertical	Pass
1**	1061.750	27.36	-15.26	54.0	26.64	AV	136.00	150	Vertical	Pass
2	2130.750	47.57	-13.27	74.0	26.43	Peak	145.00	150	Vertical	Pass
2**	2130.750	31.30	-13.27	54.0	22.70	AV	145.00	150	Vertical	Pass
3	4261.000	50.27	-4.02	74.0	23.73	Peak	111.00	150	Vertical	Pass
3**	4261.000	37.13	-4.02	54.0	16.87	AV	111.00	150	Vertical	Pass
4	5792.500	96.44	-1.51	74.0	-22.44	Peak	248.00	150	Vertical	N/A
4**	5792.500	88.08	-1.51	54.0	-34.08	AV	248.00	150	Vertical	N/A
5	8626.525	47.93	-5.45	74.0	26.07	Peak	191.00	150	Vertical	Pass
5**	8626.525	36.52	-5.45	54.0	17.48	AV	191.00	150	Vertical	Pass
6	17262.637	50.31	-1.48	74.0	23.69	Peak	82.00	150	Vertical	Pass
6**	17262.637	38.98	-1.48	54.0	15.02	AV	82.00	150	Vertical	Pass

11ac40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

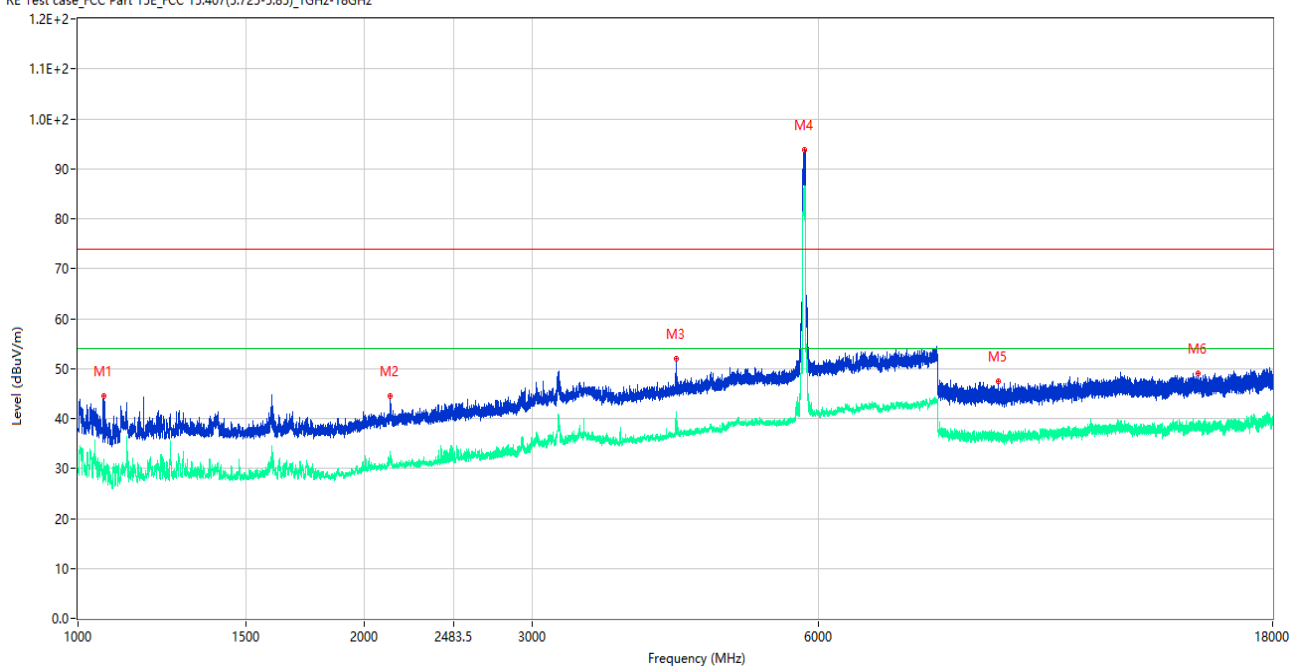
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.000	43.71	-15.22	74.0	30.29	Peak	133.00	150	Horizontal	Pass
1**	1064.000	28.82	-15.22	54.0	25.18	AV	133.00	150	Horizontal	Pass
2	1597.000	43.41	-16.22	74.0	30.59	Peak	90.00	150	Horizontal	Pass
2**	1597.000	32.46	-16.22	54.0	21.54	AV	90.00	150	Horizontal	Pass
3	3190.000	48.71	-7.62	74.0	25.29	Peak	321.00	150	Horizontal	Pass
3**	3190.000	37.97	-7.62	54.0	16.03	AV	321.00	150	Horizontal	Pass
4	5789.000	91.58	-1.53	74.0	-17.58	Peak	193.00	150	Horizontal	N/A
4**	5789.000	83.31	-1.53	54.0	-29.31	AV	193.00	150	Horizontal	N/A
5	11382.950	48.11	-3.50	74.0	25.89	Peak	262.00	150	Horizontal	Pass
5**	11382.950	37.01	-3.50	54.0	16.99	AV	262.00	150	Horizontal	Pass
6	16241.250	49.48	-1.39	74.0	24.52	Peak	14.00	150	Horizontal	Pass
6**	16241.250	39.00	-1.39	54.0	15.00	AV	14.00	150	Horizontal	Pass

11ac40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

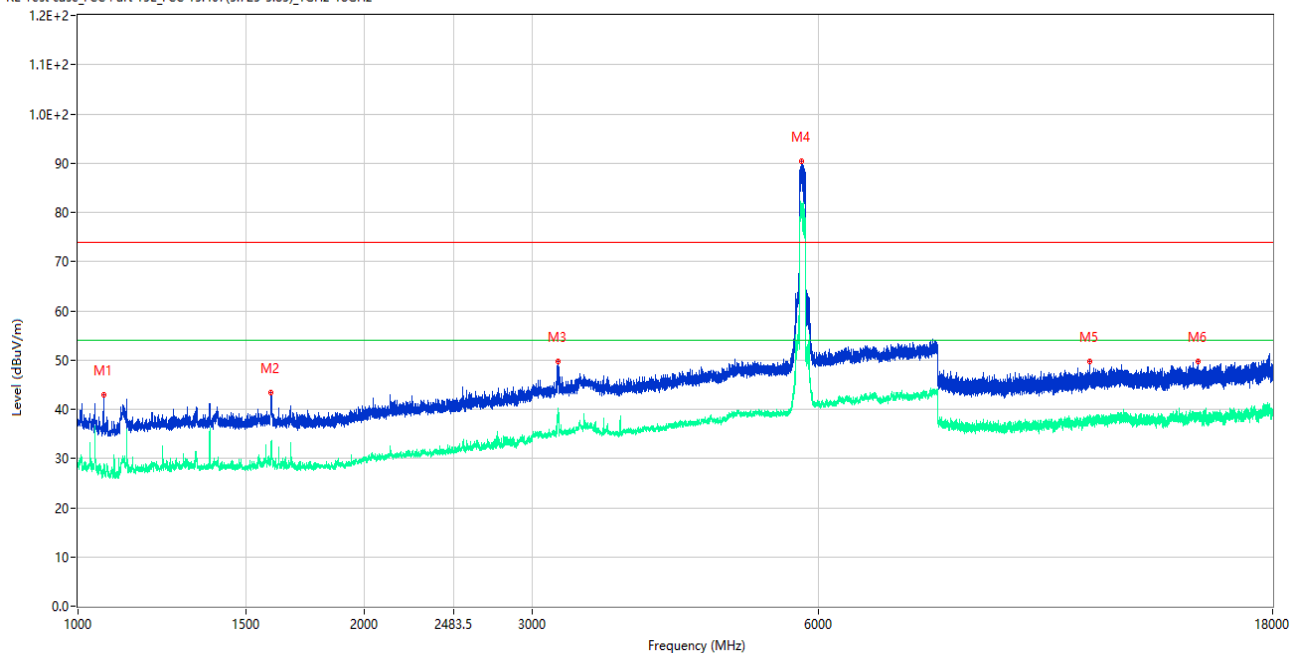
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.250	44.59	-15.21	74.0	29.41	Peak	141.00	150	Vertical	Pass
1**	1064.250	31.86	-15.21	54.0	22.14	AV	141.00	150	Vertical	Pass
2	2127.000	44.49	-13.27	74.0	29.51	Peak	68.00	150	Vertical	Pass
2**	2127.000	32.17	-13.27	54.0	21.83	AV	68.00	150	Vertical	Pass
3	4250.000	52.06	-3.70	74.0	21.94	Peak	160.00	150	Vertical	Pass
3**	4250.000	39.54	-3.70	54.0	14.46	AV	160.00	150	Vertical	Pass
4	5797.000	93.83	-1.41	74.0	-19.83	Peak	258.00	150	Vertical	N/A
4**	5797.000	86.07	-1.41	54.0	-32.07	AV	258.00	150	Vertical	N/A
5	9272.050	47.38	-5.08	74.0	26.62	Peak	143.00	150	Vertical	Pass
5**	9272.050	37.33	-5.08	54.0	16.67	AV	143.00	150	Vertical	Pass
6	15019.837	49.11	-2.70	74.0	24.89	Peak	50.00	150	Vertical	Pass
6**	15019.837	38.39	-2.70	54.0	15.61	AV	50.00	150	Vertical	Pass

11ac80, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

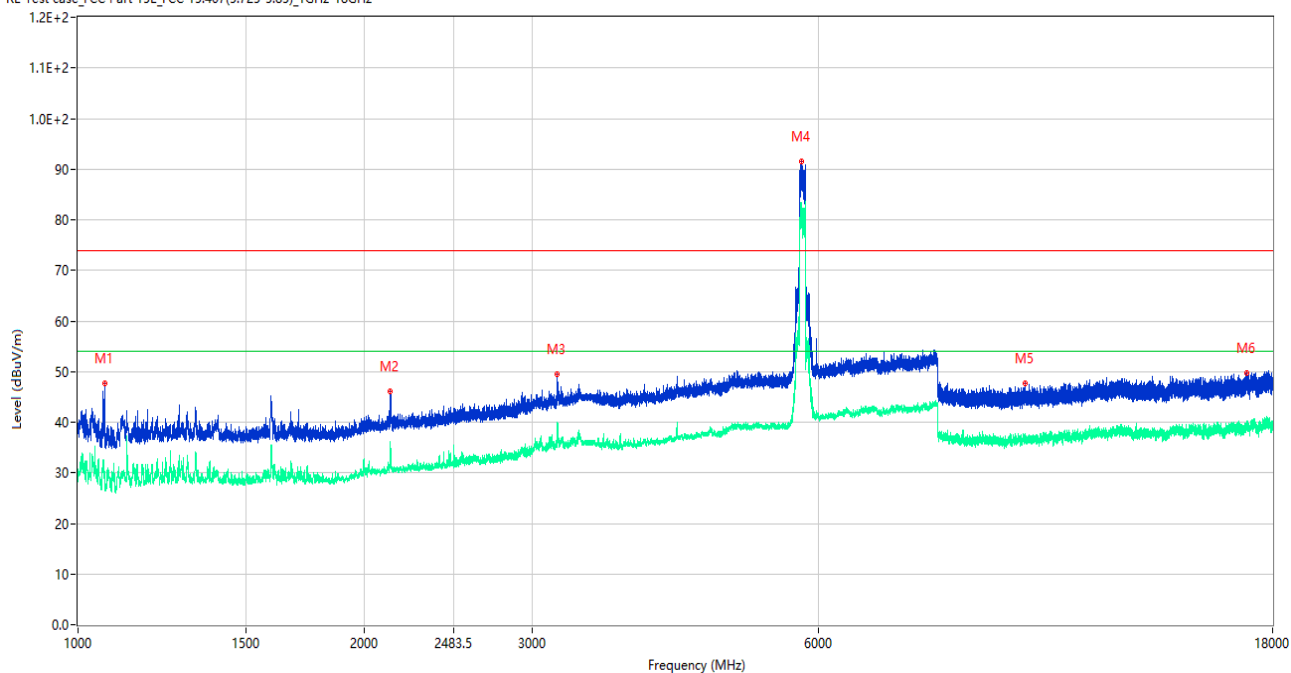
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.750	42.85	-15.22	74.0	31.15	Peak	130.00	150	Horizontal	Pass
1**	1063.750	27.67	-15.22	54.0	26.33	AV	130.00	150	Horizontal	Pass
2	1595.000	43.34	-16.24	74.0	30.66	Peak	111.00	150	Horizontal	Pass
2**	1595.000	31.80	-16.24	54.0	22.20	AV	111.00	150	Horizontal	Pass
3	3191.000	49.68	-7.65	74.0	24.32	Peak	180.00	150	Horizontal	Pass
3**	3191.000	39.73	-7.65	54.0	14.27	AV	180.00	150	Horizontal	Pass
4	5760.500	90.29	-1.93	74.0	-16.29	Peak	191.00	150	Horizontal	N/A
4**	5760.500	81.74	-1.93	54.0	-27.74	AV	191.00	150	Horizontal	N/A
5	11569.863	49.67	-2.29	74.0	24.33	Peak	27.00	150	Horizontal	Pass
5**	11569.863	37.80	-2.29	54.0	16.20	AV	27.00	150	Horizontal	Pass
6	15024.300	49.64	-2.72	74.0	24.36	Peak	217.00	150	Horizontal	Pass
6**	15024.300	38.78	-2.72	54.0	15.22	AV	217.00	150	Horizontal	Pass

11ac80, 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	1066.250	47.66	-15.14	74.0	26.34	Peak	161.00	150	Vertical	Pass
1**	1066.250	28.00	-15.14	54.0	26.00	AV	161.00	150	Vertical	Pass
2	2128.000	46.02	-13.25	74.0	27.98	Peak	127.00	150	Vertical	Pass
2**	2128.000	35.57	-13.25	54.0	18.43	AV	127.00	150	Vertical	Pass
3	3188.500	49.42	-7.59	74.0	24.58	Peak	160.00	150	Vertical	Pass
3**	3188.500	38.72	-7.59	54.0	15.28	AV	160.00	150	Vertical	Pass
4	5753.000	91.60	-2.09	74.0	-17.60	Peak	249.00	150	Vertical	N/A
4**	5753.000	81.85	-2.09	54.0	-27.85	AV	249.00	150	Vertical	N/A
5	9893.826	47.60	-4.28	74.0	26.40	Peak	192.00	150	Vertical	Pass
5**	9893.826	36.77	-4.28	54.0	17.23	AV	192.00	150	Vertical	Pass
6	16895.926	49.67	-0.49	74.0	24.33	Peak	0.00	150	Vertical	Pass
6**	16895.926	39.62	-0.49	54.0	14.38	AV	0.00	150	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

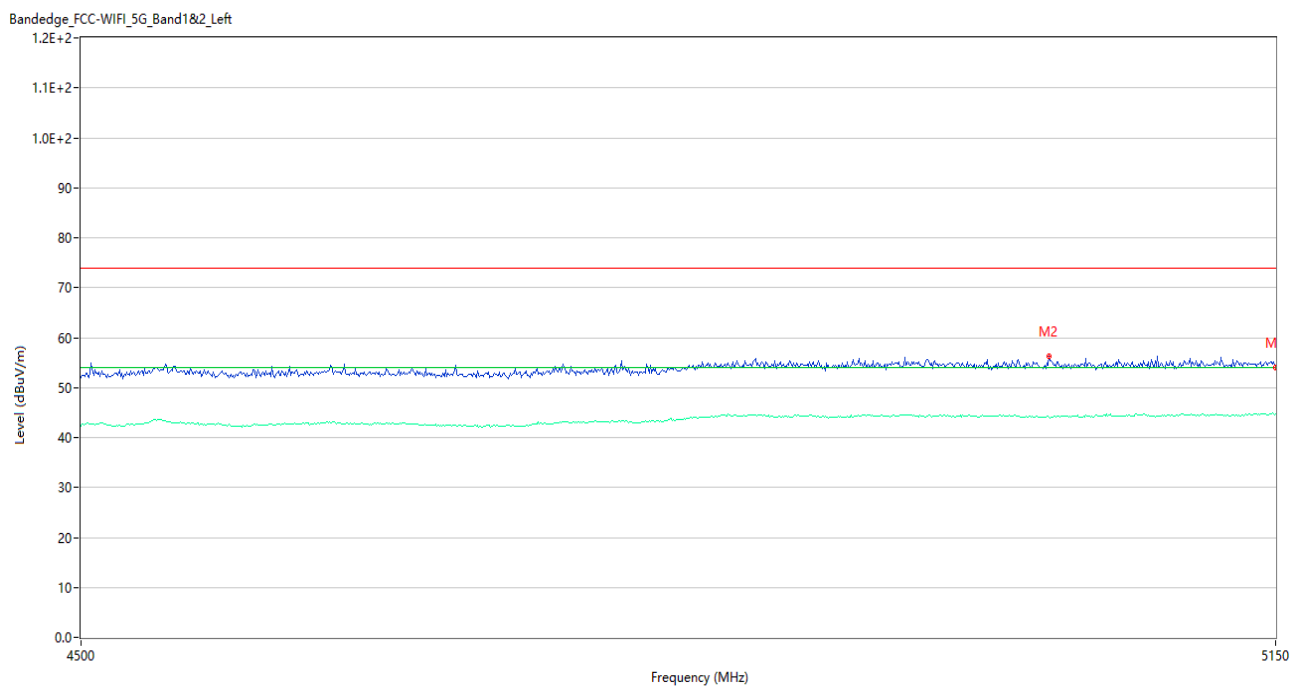
Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass
U-NII-2A	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass
U-NII-2C	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Low	Pass
		High	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
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass

Test Data and Plots

Main Antenna:

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	54.49	3.82	74.0	19.51	Peak	359.94	150	Horizontal	Pass
1**	5150.000	44.79	3.82	54.0	9.21	AV	359.94	150	Horizontal	Pass
2	5020.000	56.31	3.48	74.0	17.69	Peak	360.00	150	Horizontal	Pass
2**	5020.000	44.12	3.48	54.0	9.88	AV	360.00	150	Horizontal	Pass

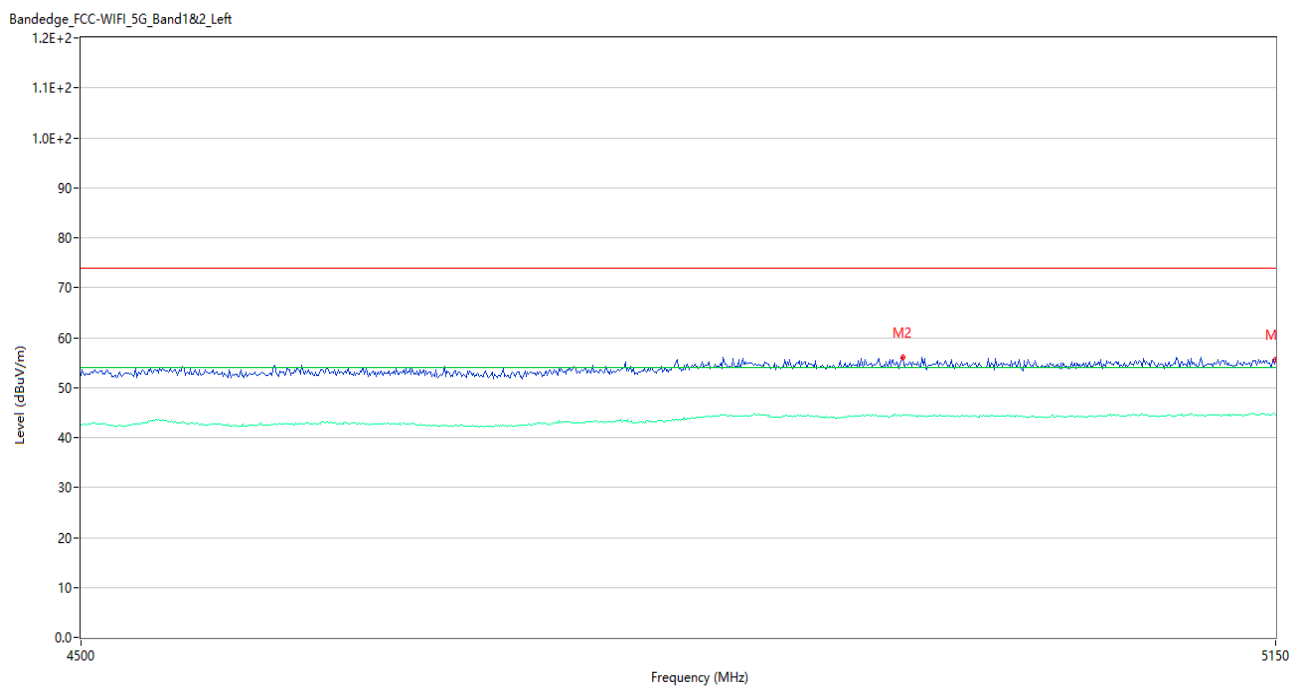
U-NII-1 11a CH48

Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.75	4.04	74.0	19.25	Peak	249.00	150	Horizontal	Pass
1**	5350.000	44.50	4.04	54.0	9.50	AV	249.00	150	Horizontal	Pass
2	5361.440	56.92	4.20	74.0	17.08	Peak	246.00	150	Horizontal	Pass
2**	5361.440	44.56	4.20	54.0	9.44	AV	246.00	150	Horizontal	Pass

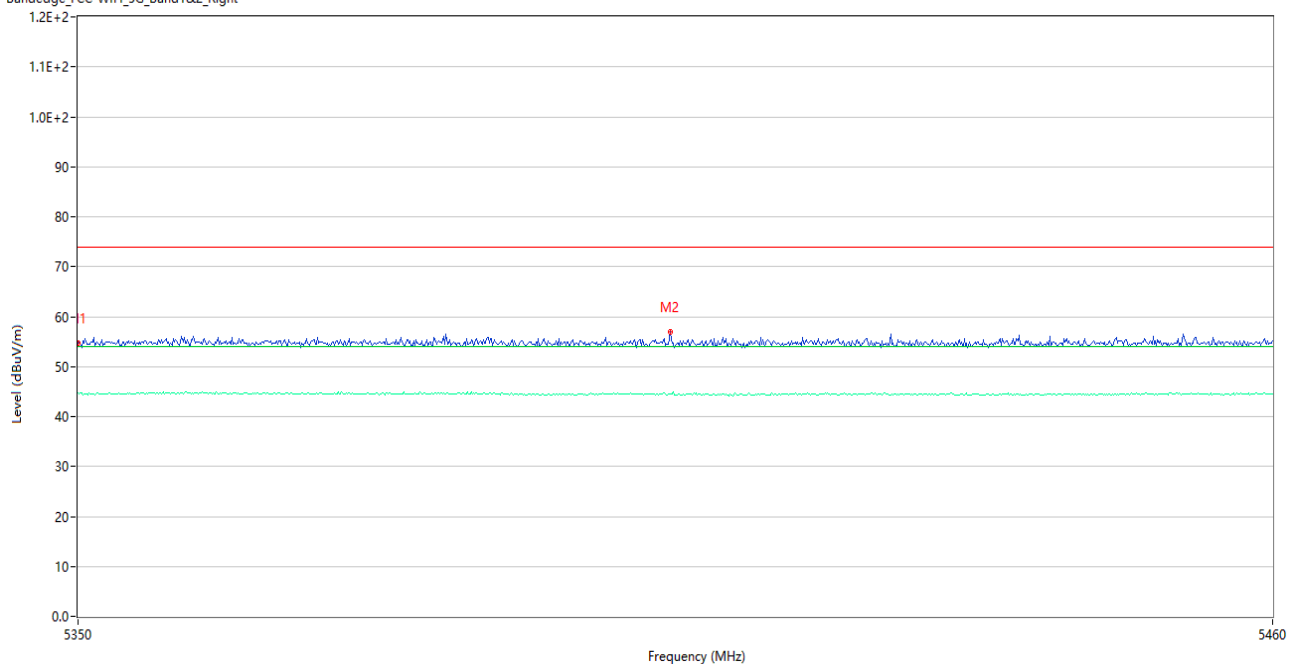
U-NII-1 11ac20 CH36



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.65	3.82	74.0	18.35	Peak	122.98	150	Horizontal	Pass
1**	5150.000	44.55	3.82	54.0	9.45	AV	122.98	150	Horizontal	Pass
2	4937.450	56.01	3.87	74.0	17.99	Peak	242.00	150	Horizontal	Pass
2**	4937.450	44.50	3.87	54.0	9.50	AV	242.00	150	Horizontal	Pass

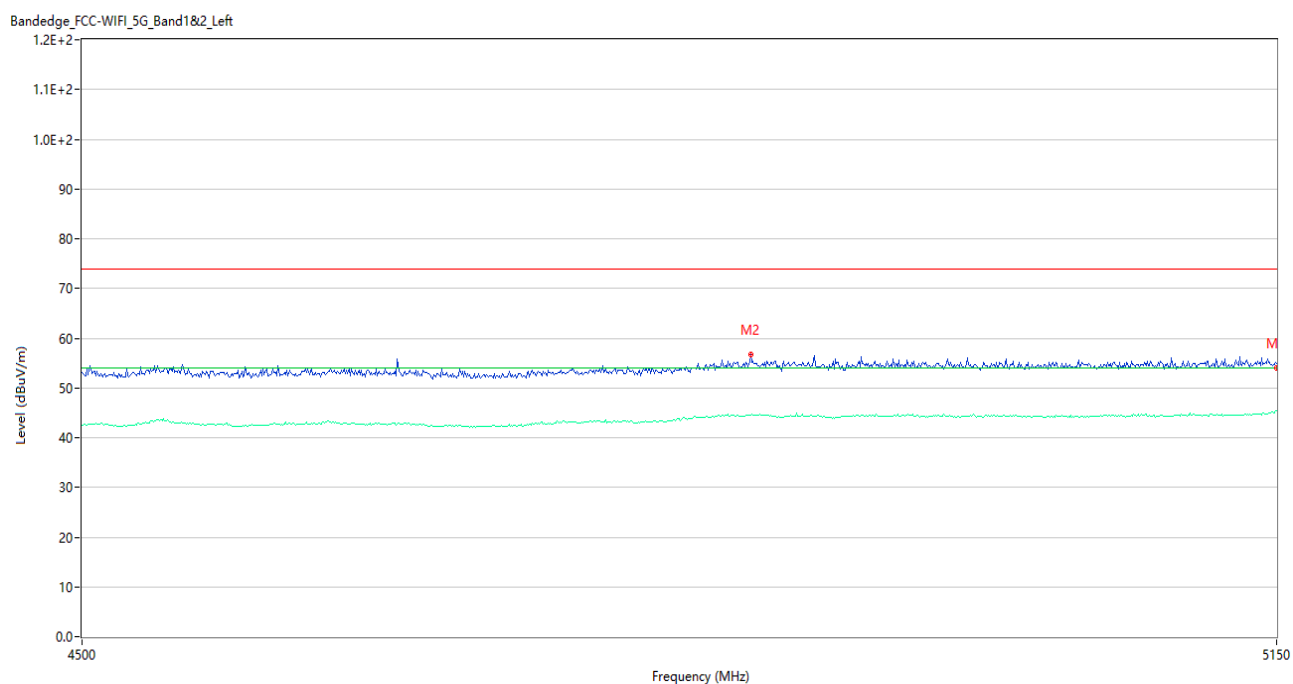
U-NII-1 11ac20 CH48

Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.79	4.04	74.0	19.21	Peak	318.00	150	Vertical	Pass
1**	5350.000	44.65	4.04	54.0	9.35	AV	318.00	150	Vertical	Pass
2	5404.230	56.88	3.94	74.0	17.12	Peak	251.00	150	Vertical	Pass
2**	5404.230	44.59	3.94	54.0	9.41	AV	251.00	150	Vertical	Pass

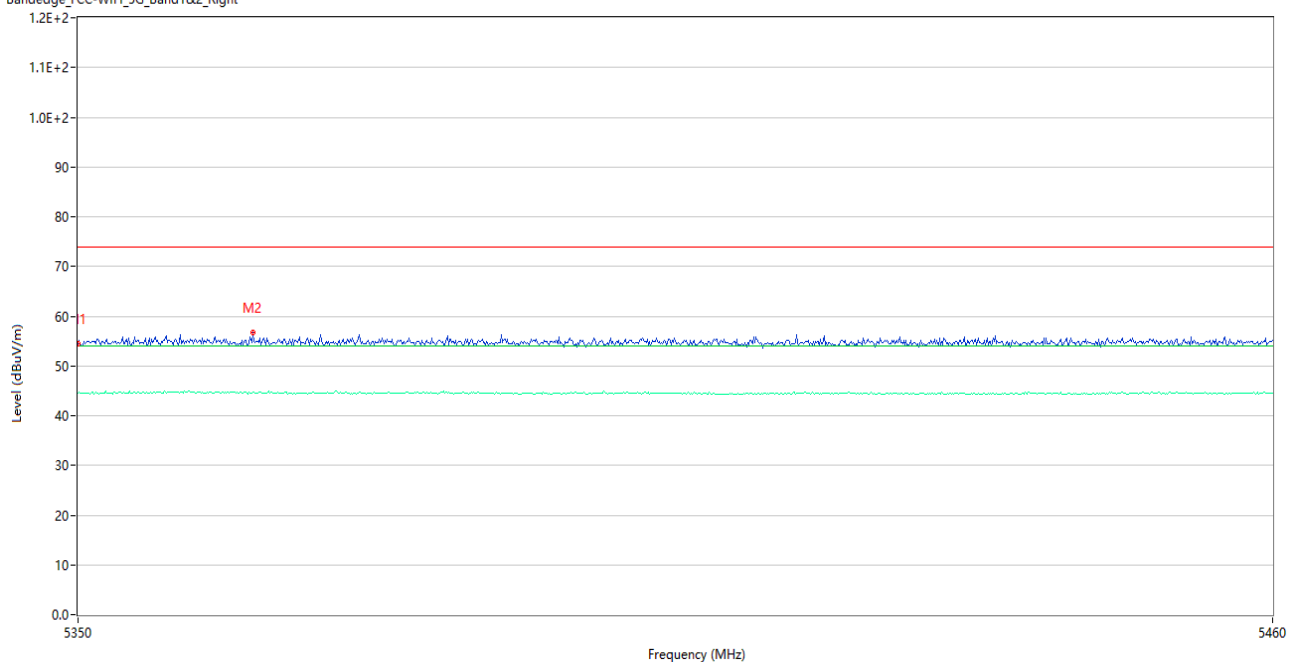
U-NII-1 11ac40 CH38



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.81	3.82	74.0	19.19	Peak	353.98	150	Vertical	Pass
1**	5150.000	45.34	3.82	54.0	8.66	AV	353.98	150	Vertical	Pass
2	4852.950	56.68	4.28	74.0	17.32	Peak	259.00	150	Vertical	Pass
2**	4852.950	44.46	4.28	54.0	9.54	AV	259.00	150	Vertical	Pass

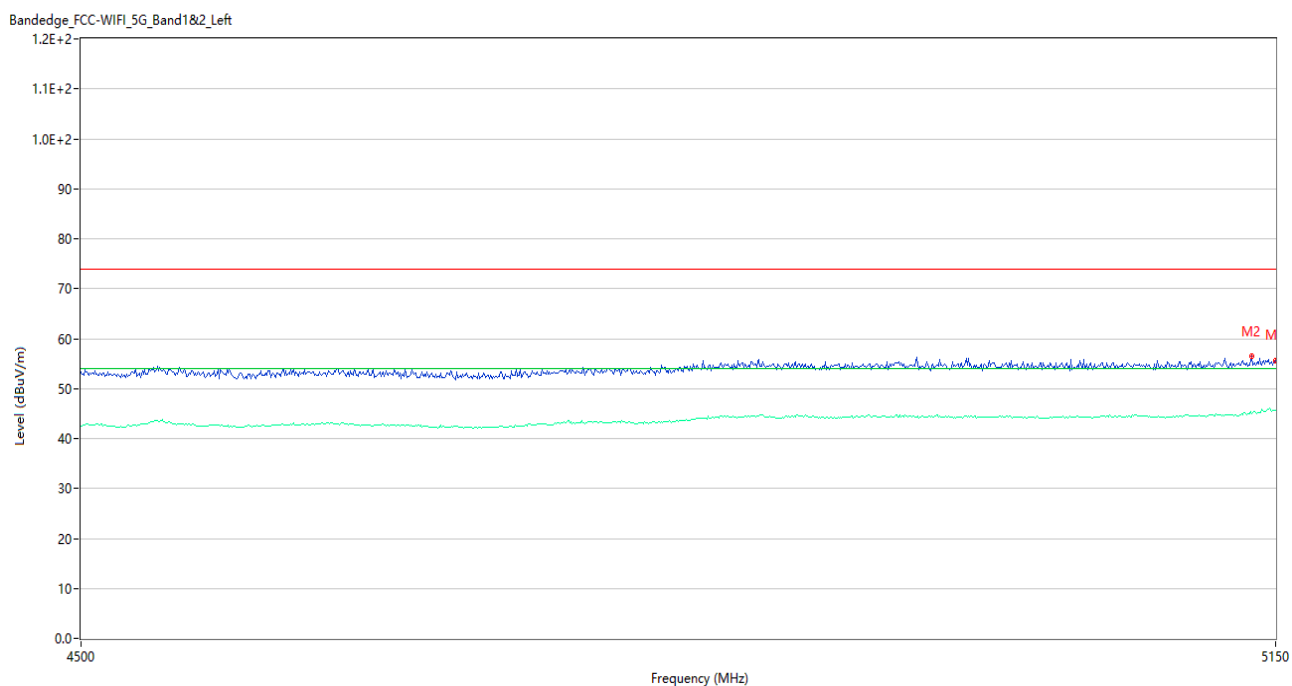
U-NII-1 11ac40 CH46

Bandedge_FCC-WIFI_5G_Band1&2_Right



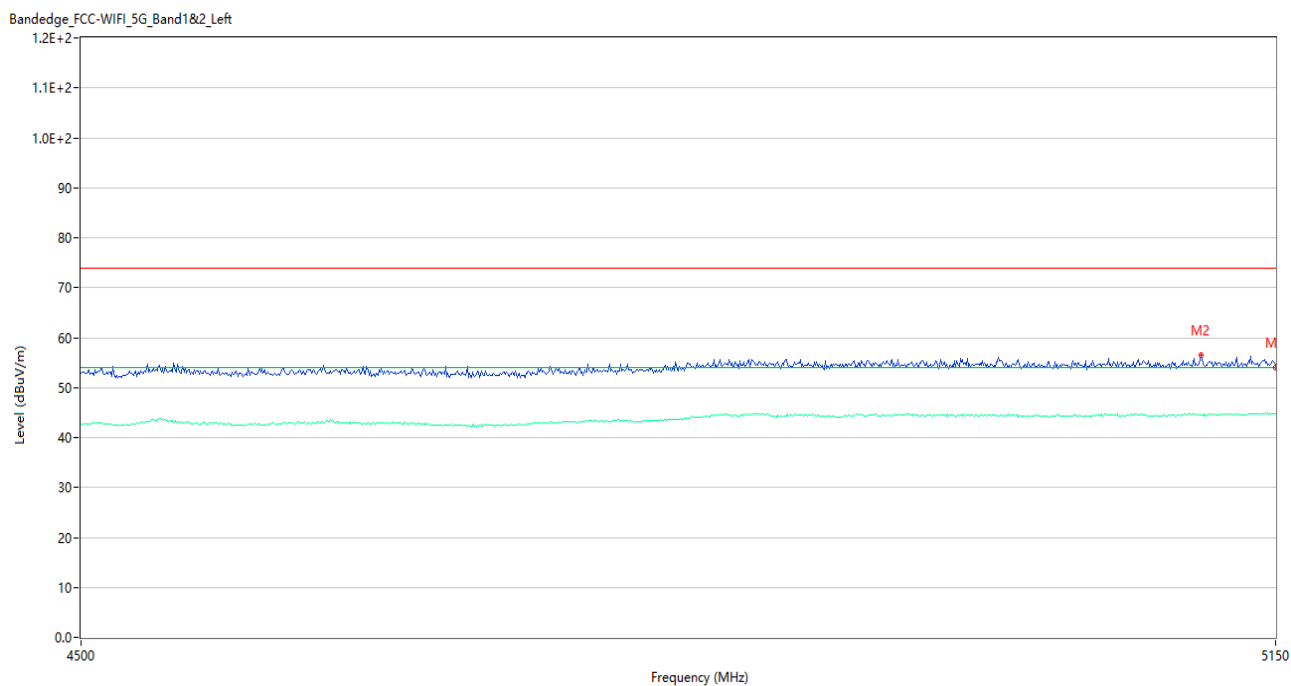
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.44	4.04	74.0	19.56	Peak	0.00	150	Horizontal	Pass
1**	5350.000	44.46	4.04	54.0	9.54	AV	0.00	150	Horizontal	Pass
2	5365.950	56.70	4.08	74.0	17.30	Peak	72.00	150	Horizontal	Pass
2**	5365.950	44.69	4.08	54.0	9.31	AV	72.00	150	Horizontal	Pass

U-NII-1 11ac80 CH42



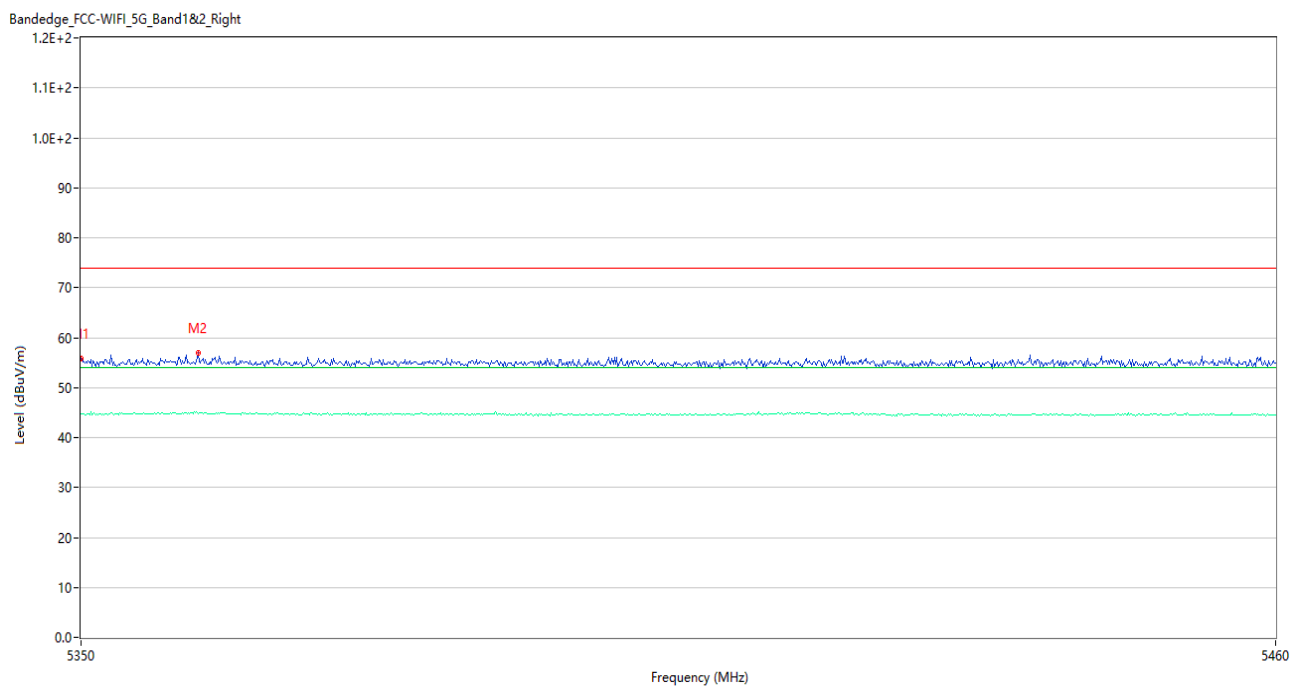
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.68	3.82	74.0	18.32	Peak	132.02	150	Vertical	Pass
1**	5150.000	45.64	3.82	54.0	8.36	AV	132.02	150	Vertical	Pass
2	5136.350	56.47	4.00	74.0	17.53	Peak	20.00	150	Vertical	Pass
2**	5136.350	45.05	4.00	54.0	8.95	AV	20.00	150	Vertical	Pass

U-NII-2A 11a CH52



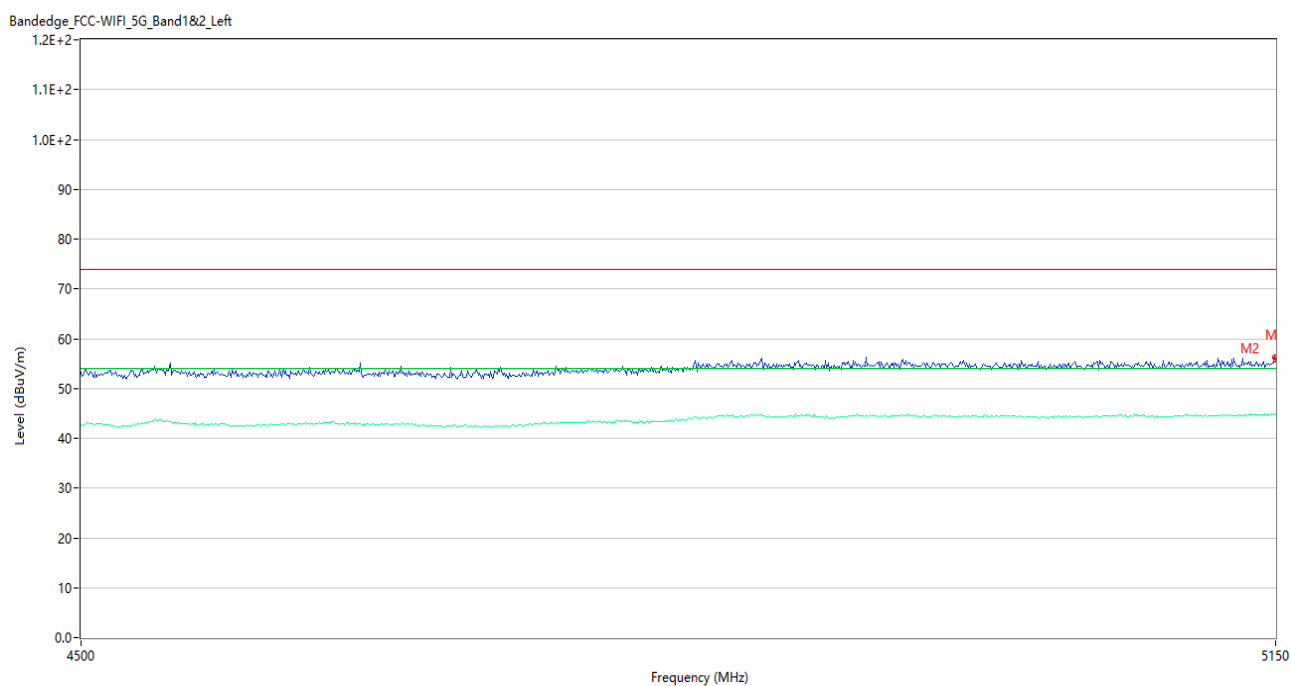
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.71	3.82	74.0	19.29	Peak	30.99	150	Horizontal	Pass
1**	5150.000	44.68	3.82	54.0	9.32	AV	30.99	150	Horizontal	Pass
2	5107.100	56.45	3.67	74.0	17.55	Peak	19.00	150	Horizontal	Pass
2**	5107.100	44.50	3.67	54.0	9.50	AV	19.00	150	Horizontal	Pass

U-NII-2A 11a CH64



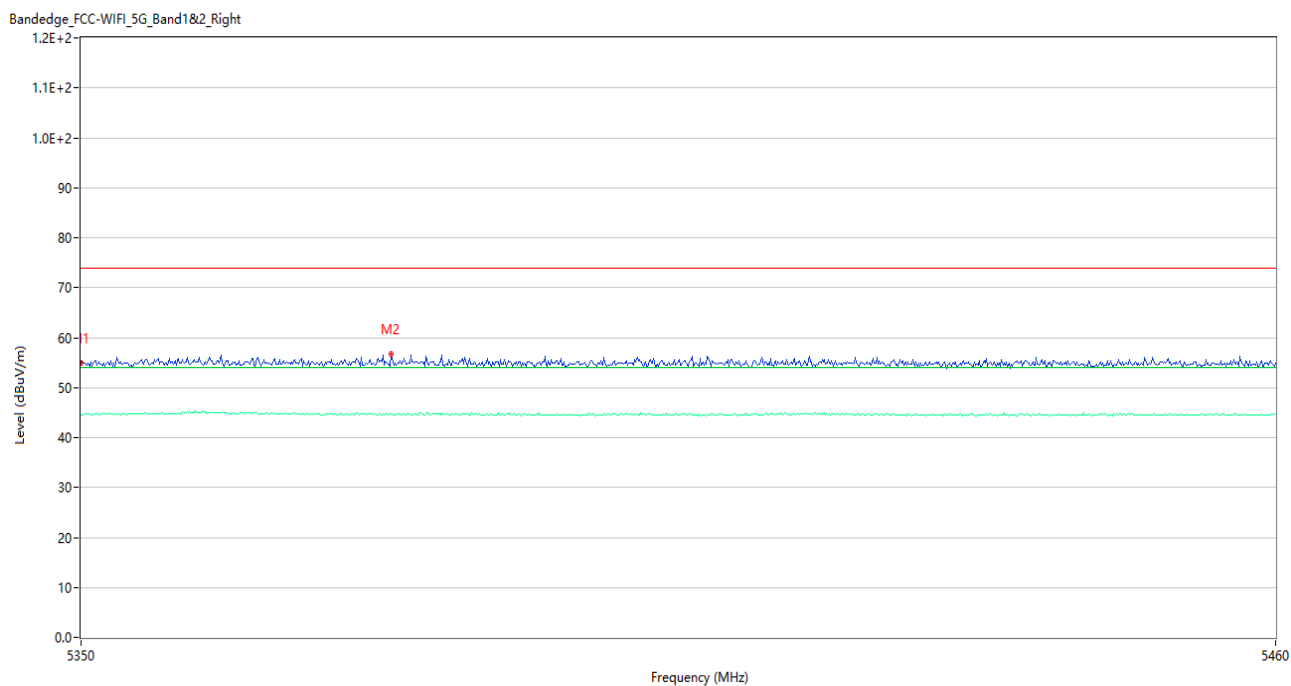
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.78	4.04	74.0	18.22	Peak	0.00	150	Vertical	Pass
1**	5350.000	44.68	4.04	54.0	9.32	AV	0.00	150	Vertical	Pass
2	5360.670	56.88	4.22	74.0	17.12	Peak	39.00	150	Vertical	Pass
2**	5360.670	44.84	4.22	54.0	9.16	AV	39.00	150	Vertical	Pass

U-NII-2A 11ac20 CH52



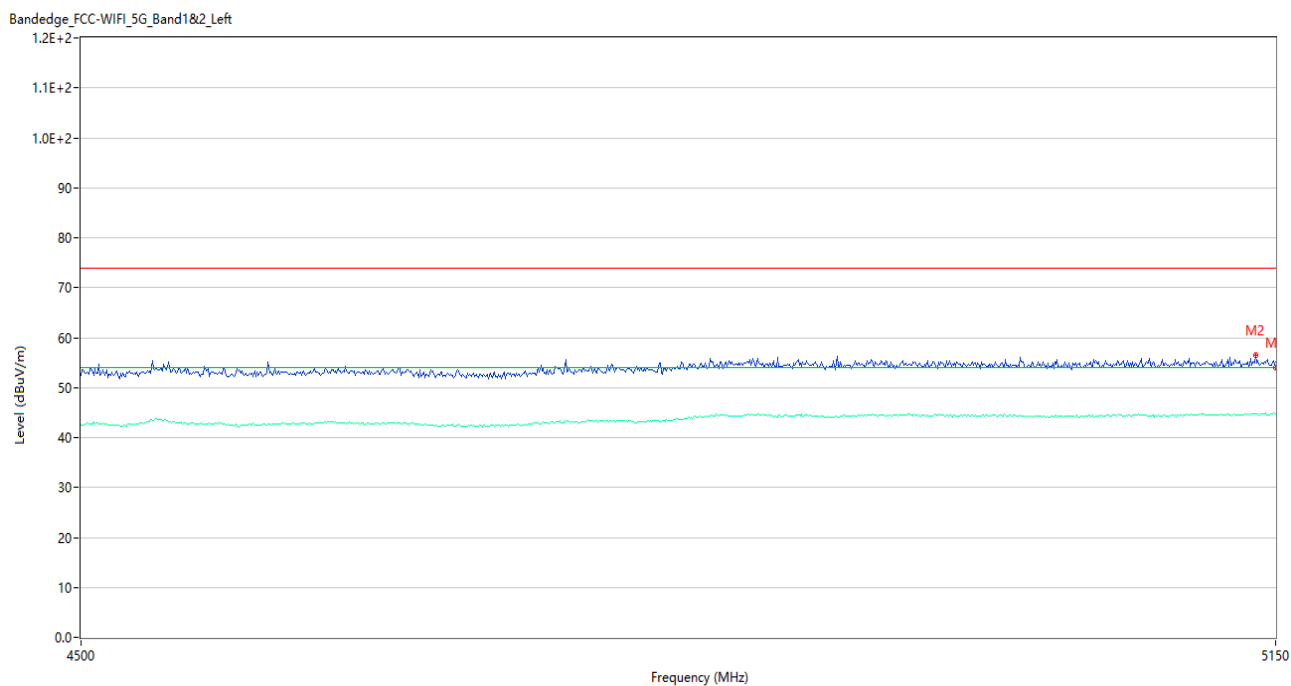
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.74	3.82	74.0	18.26	Peak	0.06	150	Vertical	Pass
1**	5150.000	44.81	3.82	54.0	9.19	AV	0.06	150	Vertical	Pass
2	5149.350	56.21	3.84	74.0	17.79	Peak	326.00	150	Vertical	Pass
2**	5149.350	44.94	3.84	54.0	9.06	AV	326.00	150	Vertical	Pass

U-NII-2A 11ac20 CH64



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.99	4.04	74.0	19.01	Peak	255.00	150	Vertical	Pass
1**	5350.000	44.52	4.04	54.0	9.48	AV	255.00	150	Vertical	Pass
2	5378.380	56.67	4.05	74.0	17.33	Peak	2.00	150	Vertical	Pass
2**	5378.380	44.76	4.05	54.0	9.24	AV	2.00	150	Vertical	Pass

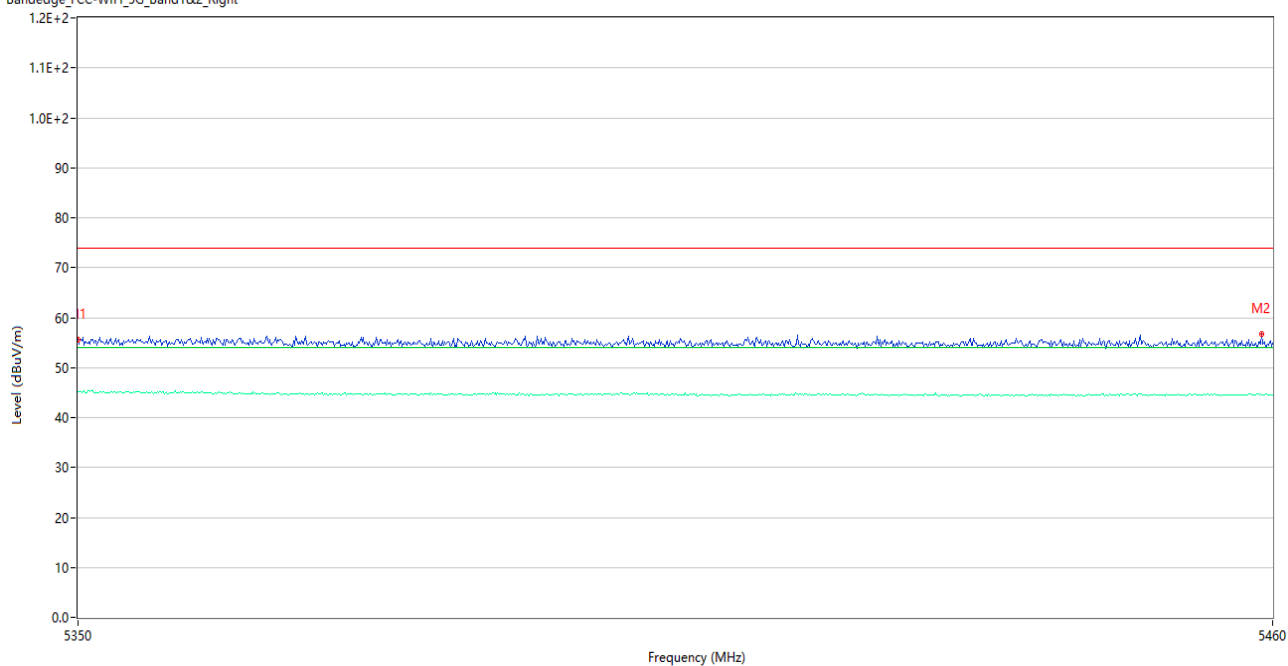
U-NII-2A 11ac40 CH54



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.15	3.82	74.0	18.85	Peak	348.93	150	Horizontal	Pass
1**	5150.000	44.83	3.82	54.0	9.17	AV	348.93	150	Horizontal	Pass
2	5138.300	56.54	4.04	74.0	17.46	Peak	340.00	150	Horizontal	Pass
2**	5138.300	44.83	4.04	54.0	9.17	AV	340.00	150	Horizontal	Pass

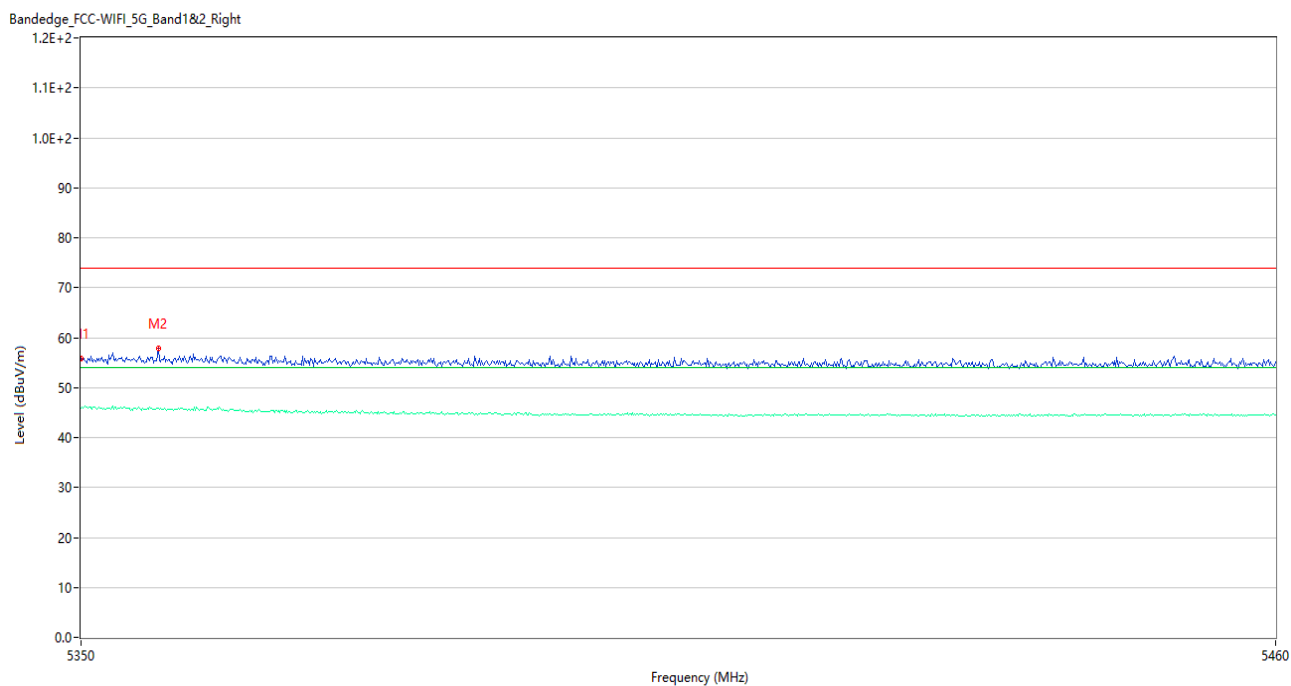
U-NII-2A 11ac40 CH62

Bandedge_FCC-WIFI_5G_Band1&2_Right



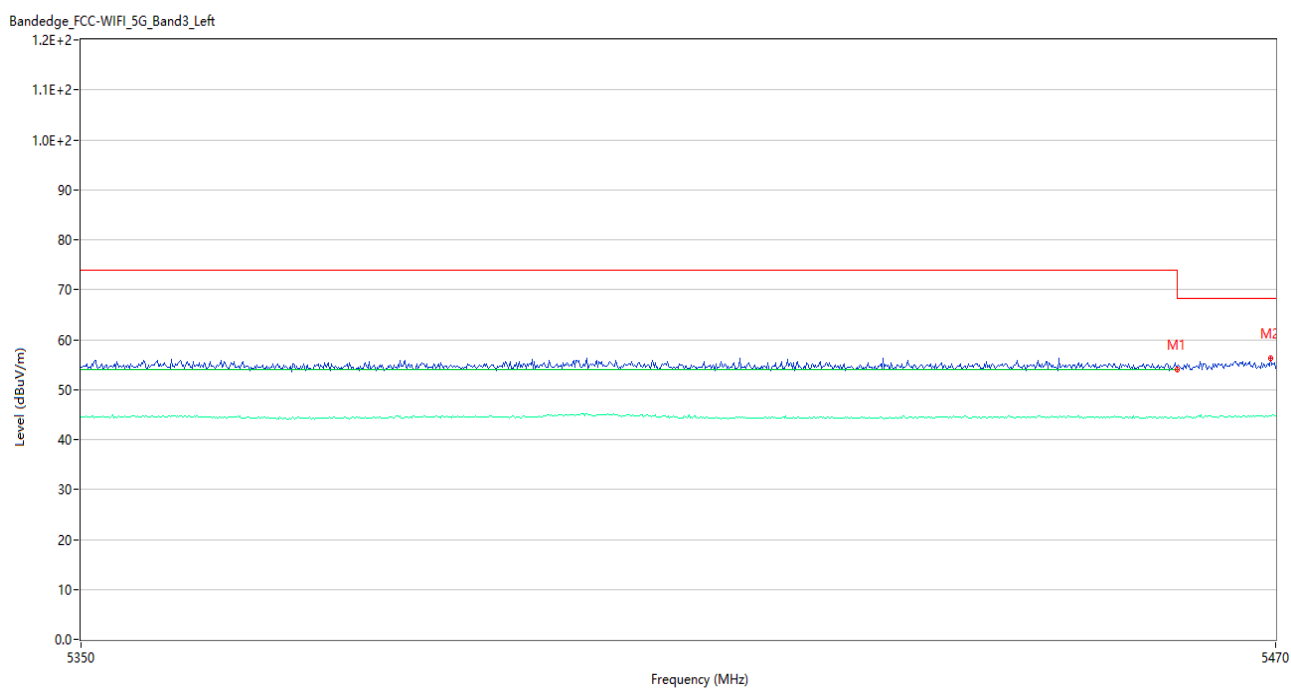
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.49	4.04	74.0	18.51	Peak	298.00	150	Vertical	Pass
1**	5350.000	45.29	4.04	54.0	8.71	AV	298.00	150	Vertical	Pass
2	5459.010	56.82	3.78	74.0	17.18	Peak	231.00	150	Vertical	Pass
2**	5459.010	44.51	3.78	54.0	9.49	AV	231.00	150	Vertical	Pass

U-NII-2A 11ac80 CH58



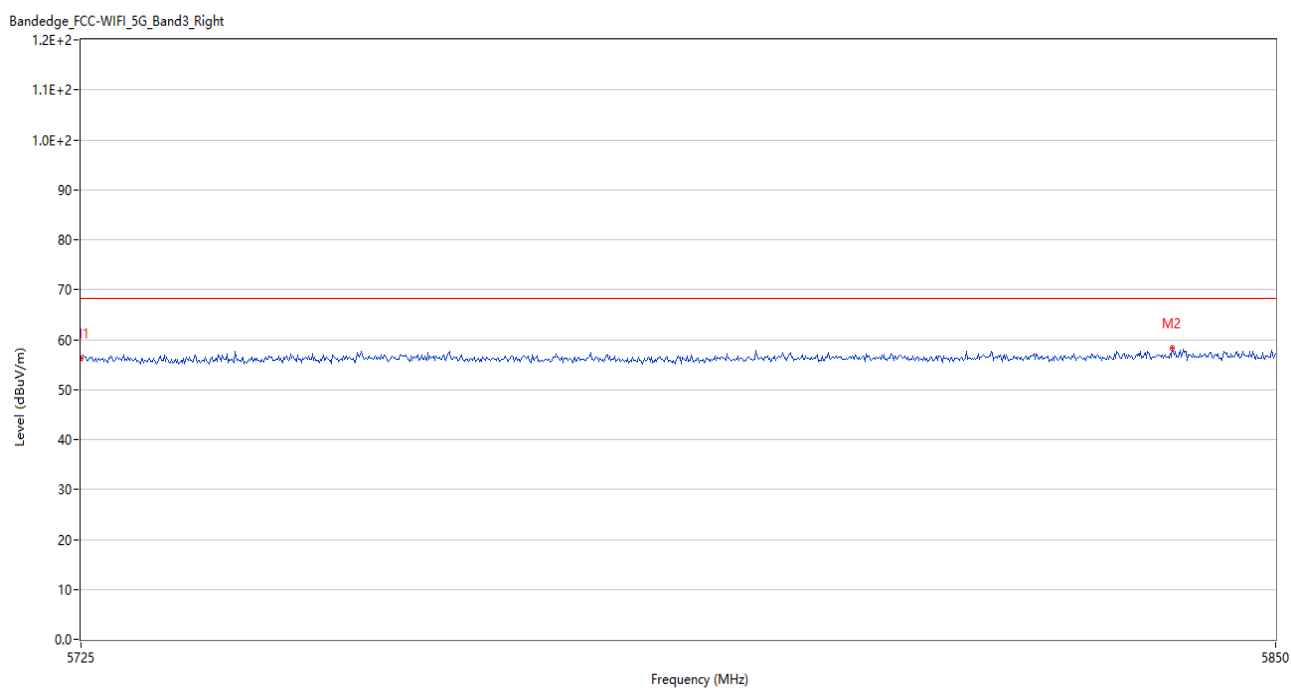
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.78	4.04	74.0	18.22	Peak	298.00	150	Vertical	Pass
1**	5350.000	45.96	4.04	54.0	8.04	AV	298.00	150	Vertical	Pass
2	5357.040	57.76	4.19	74.0	16.24	Peak	302.00	150	Vertical	Pass
2**	5357.040	45.86	4.19	54.0	8.14	AV	302.00	150	Vertical	Pass

U-NII-2C 11a CH100



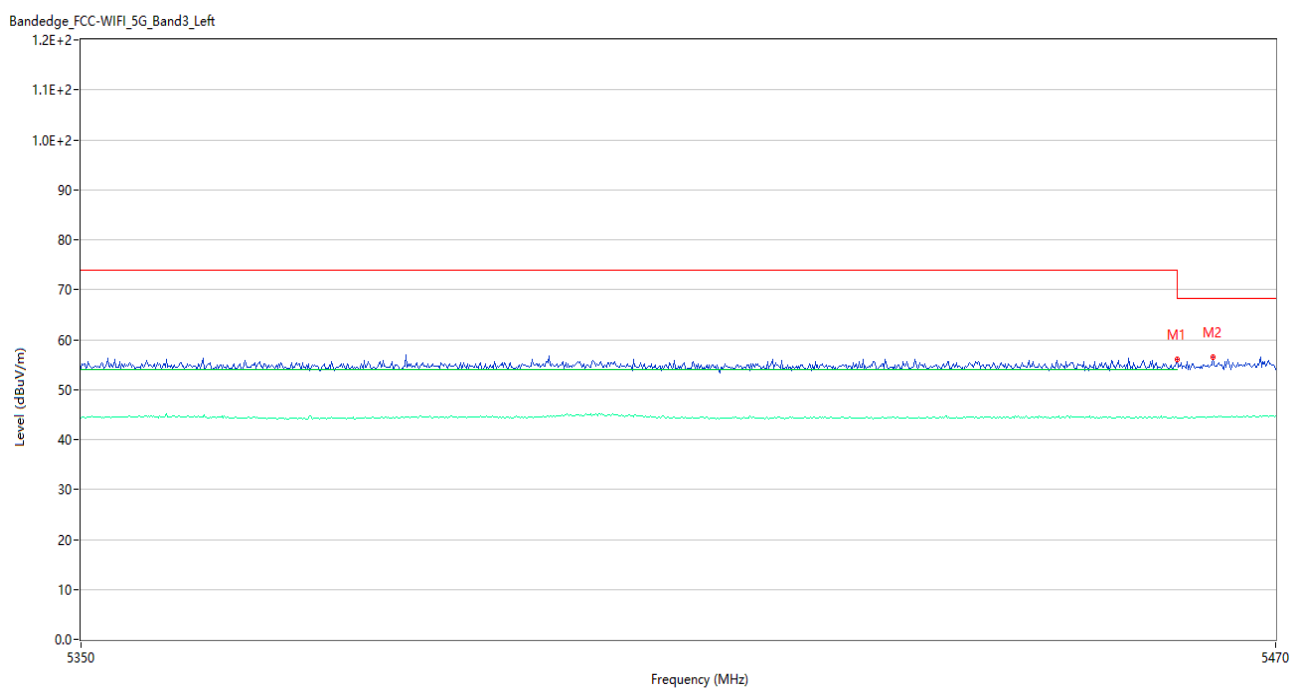
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.67	3.78	68.2	13.53	Peak	175.38	150	Horizontal	Pass
1**	5460.000	44.35	3.78	54.0	9.65	AV	175.38	150	Horizontal	Pass
2	5469.520	56.28	4.08	68.2	11.92	Peak	114.00	150	Horizontal	Pass
2**	5469.520	44.79	4.08	--	-44.79	AV	114.00	150	Horizontal	N/A

U-NII-2C 11a CH140



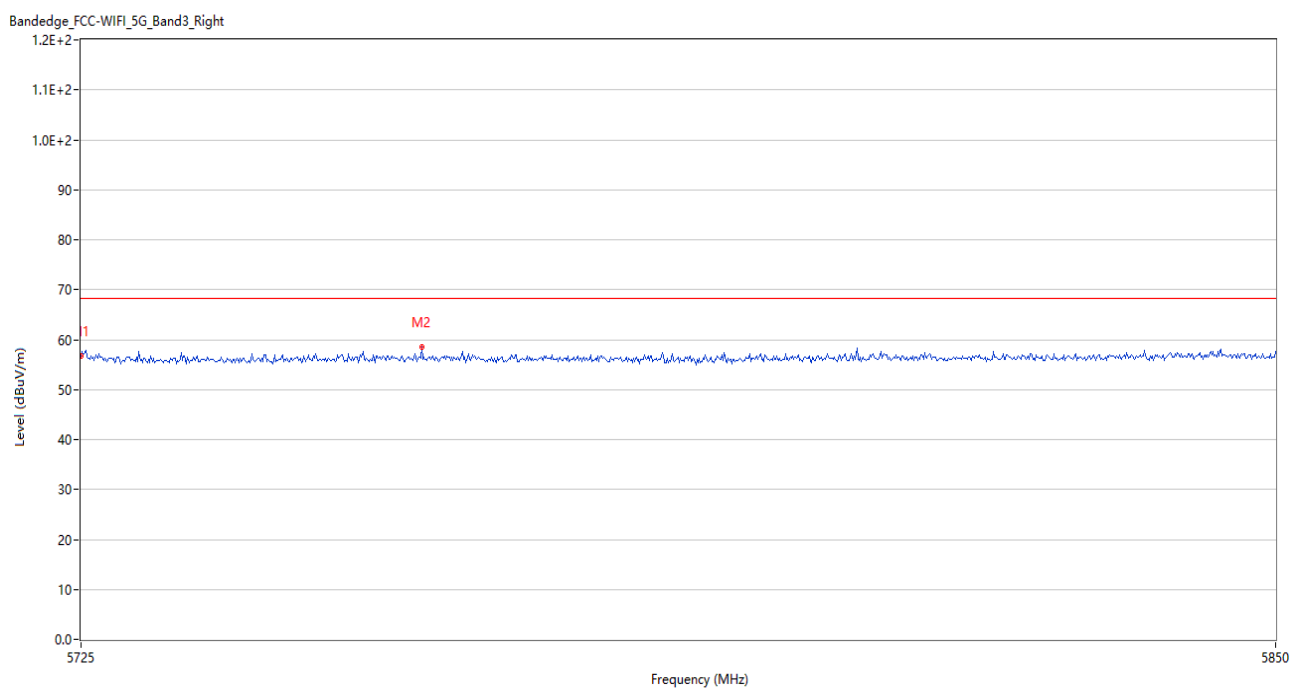
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	56.25	4.31	68.2	11.95	Peak	222.00	150	Vertical	Pass
2	5839.125	58.23	5.40	68.2	9.97	Peak	108.00	150	Vertical	Pass

U-NII-2C 11ac20 CH100



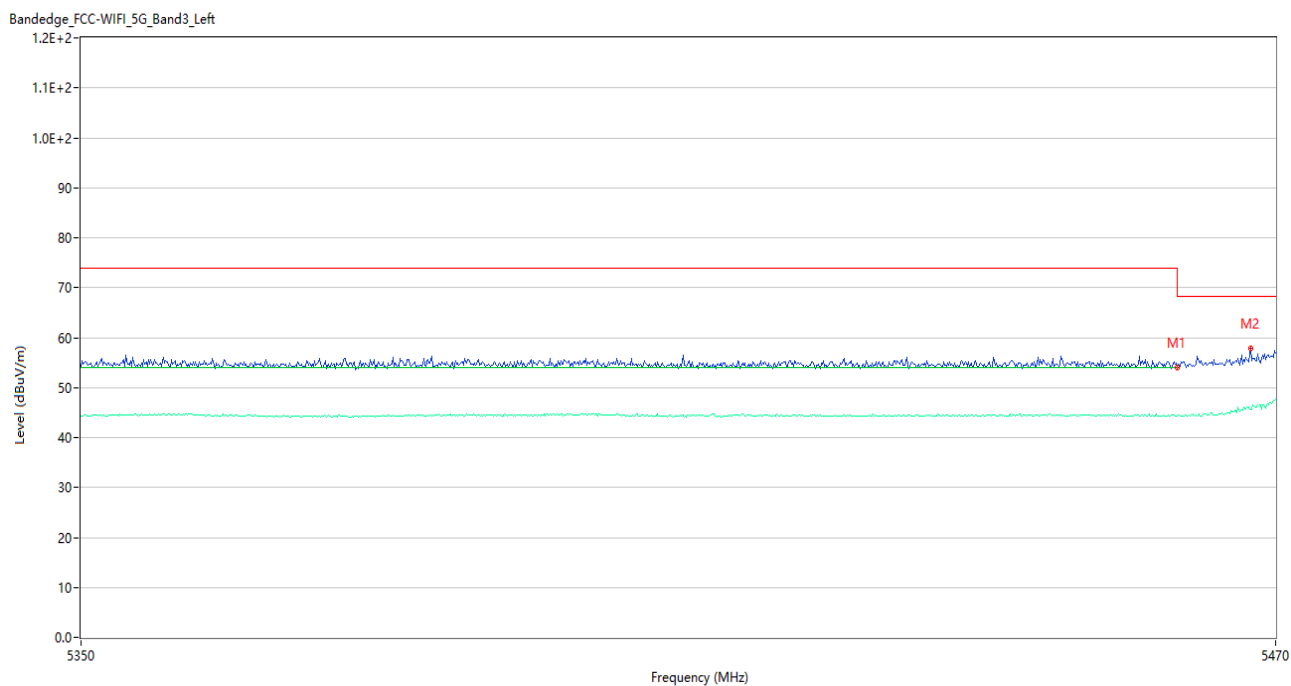
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	55.75	3.78	68.2	12.45	Peak	75.93	150	Horizontal	Pass
1**	5460.000	44.47	3.78	54.0	9.53	AV	75.93	150	Horizontal	Pass
2	5463.640	56.38	3.89	68.2	11.82	Peak	38.00	150	Horizontal	Pass
2**	5463.640	44.48	3.89	--	-44.48	AV	38.00	150	Horizontal	N/A

U-NII-2C 11ac20 CH140



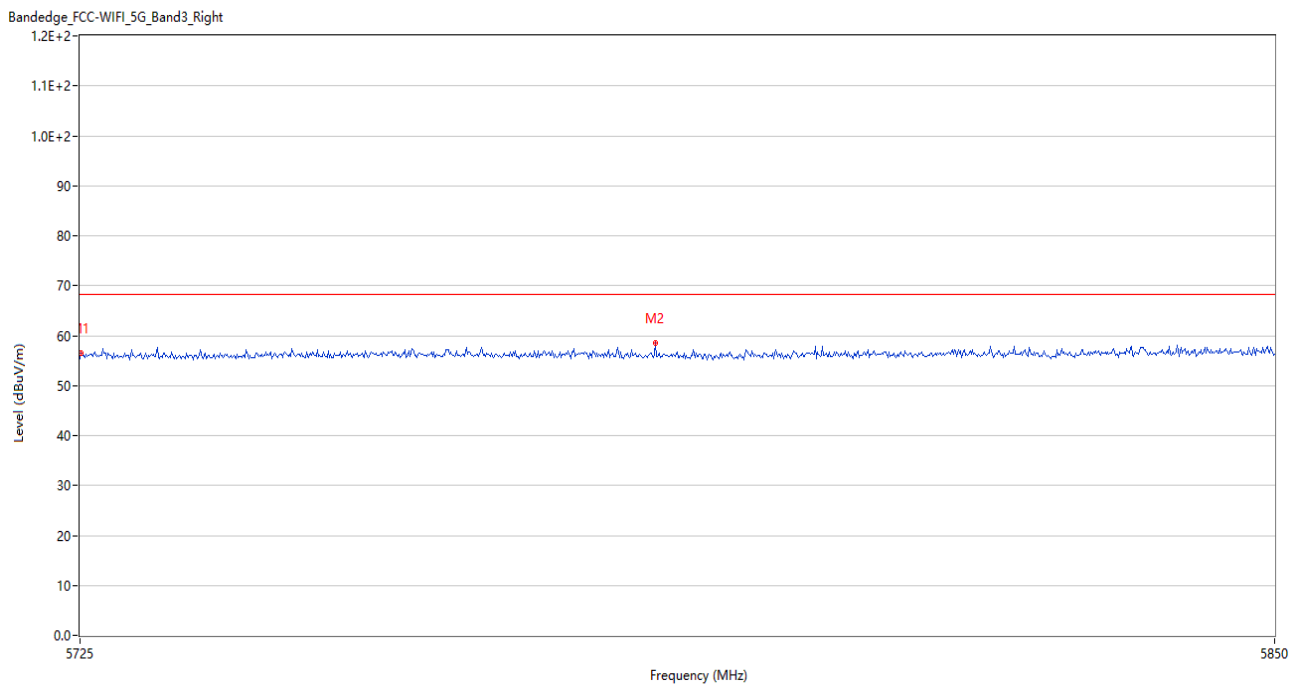
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	56.71	4.31	68.2	11.49	Peak	276.00	150	Horizontal	Pass
2	5760.375	58.51	4.64	68.2	9.69	Peak	58.00	150	Horizontal	Pass

U-NII-2C 11ac40 CH102



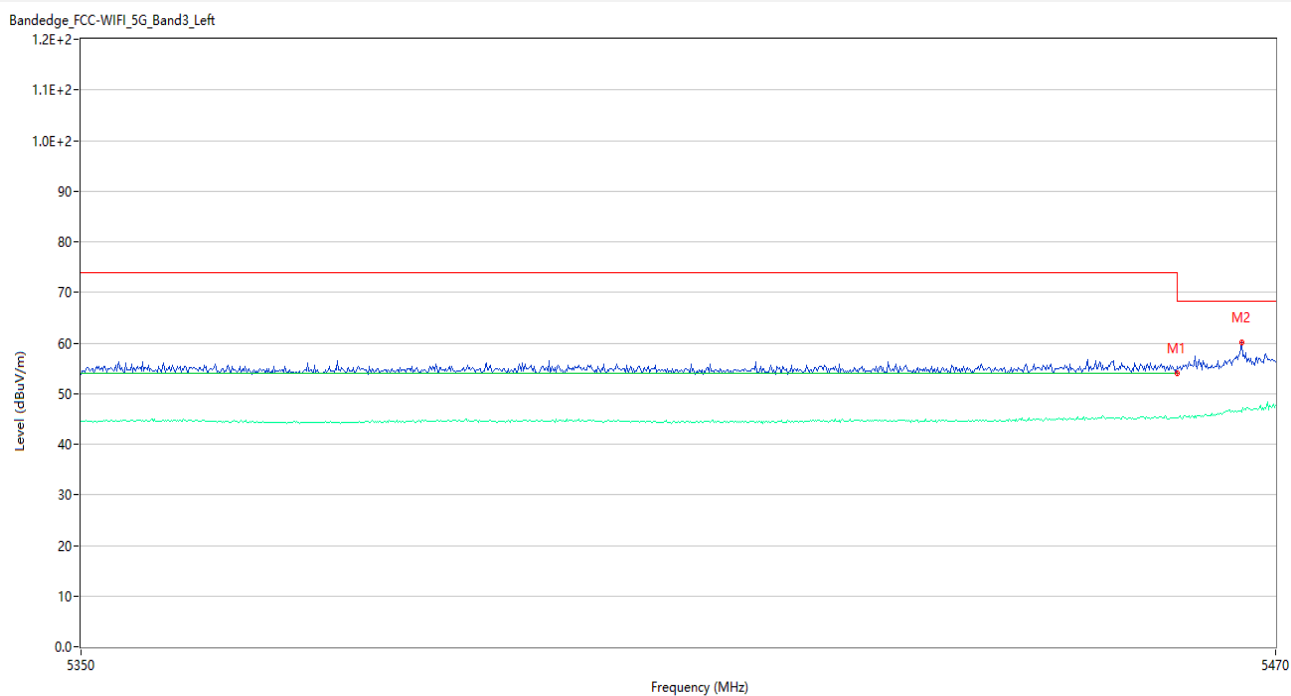
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.30	3.78	68.2	13.90	Peak	28.06	150	Vertical	Pass
1**	5460.000	44.34	3.78	54.0	9.66	AV	28.06	150	Vertical	Pass
2	5467.480	57.76	4.03	68.2	10.44	Peak	236.00	150	Vertical	Pass
2**	5467.480	45.76	4.03	--	-45.76	AV	236.00	150	Vertical	N/A

U-NII-2C 11ac40 CH134



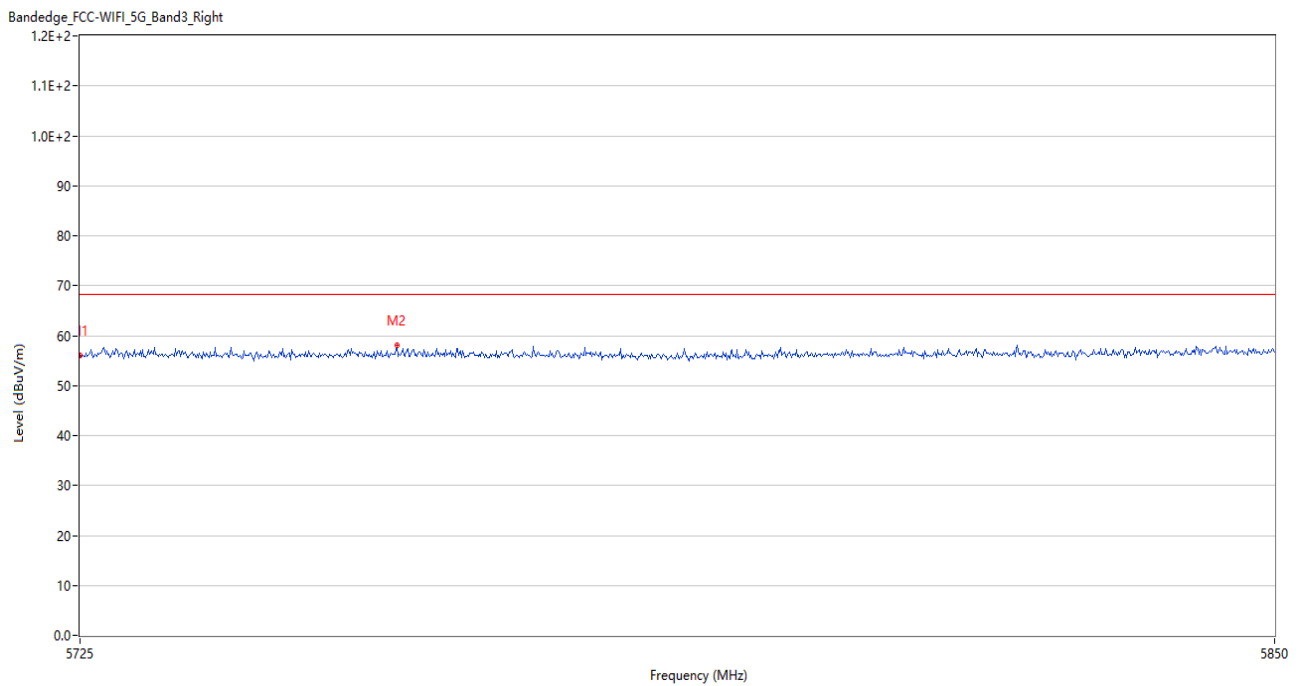
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.125	56.57	4.31	68.2	11.63	Peak	360.00	150	Horizontal	Pass
2	5784.875	58.58	4.96	68.2	9.62	Peak	360.00	150	Horizontal	Pass

U-NII-2C 11ac80 CH106



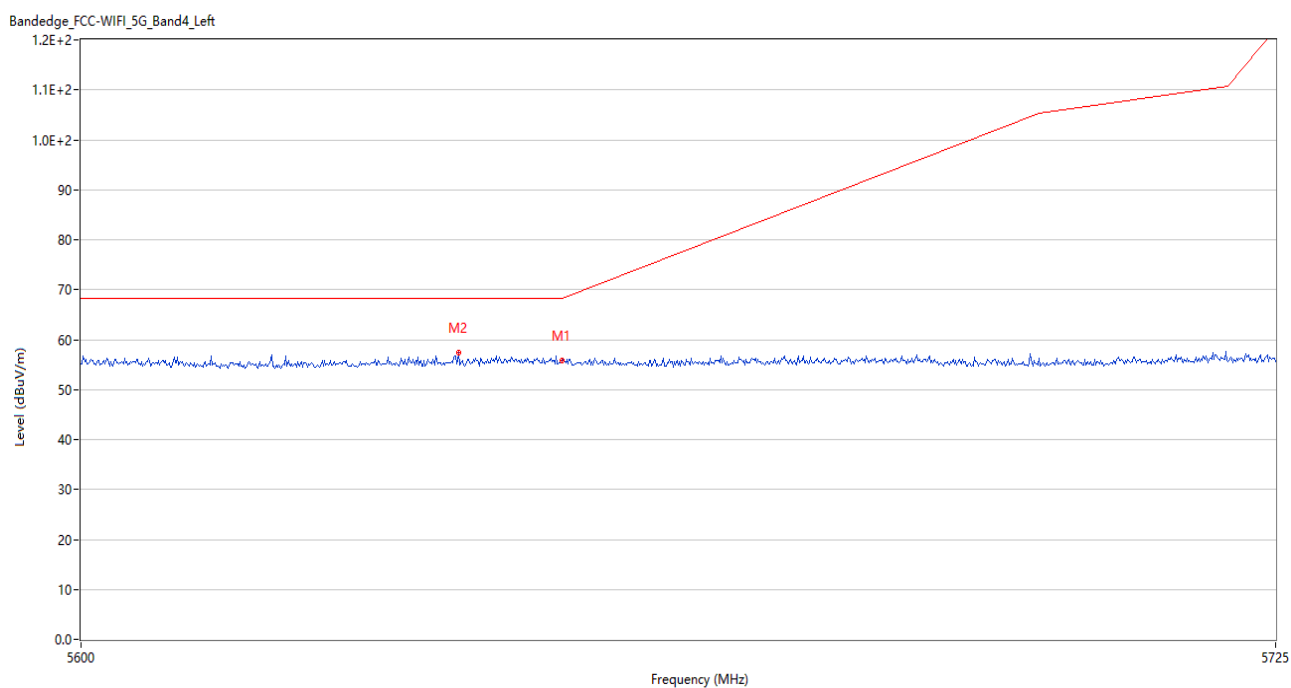
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.98	3.78	68.2	13.22	Peak	247.38	150	Vertical	Pass
1**	5460.000	45.24	3.78	54.0	8.76	AV	247.38	150	Vertical	Pass
2	5466.520	60.12	3.99	68.2	8.08	Peak	239.00	150	Vertical	Pass
2**	5466.520	46.38	3.99	--	-46.38	AV	239.00	150	Vertical	N/A

U-NII-2C 11ac80 CH122



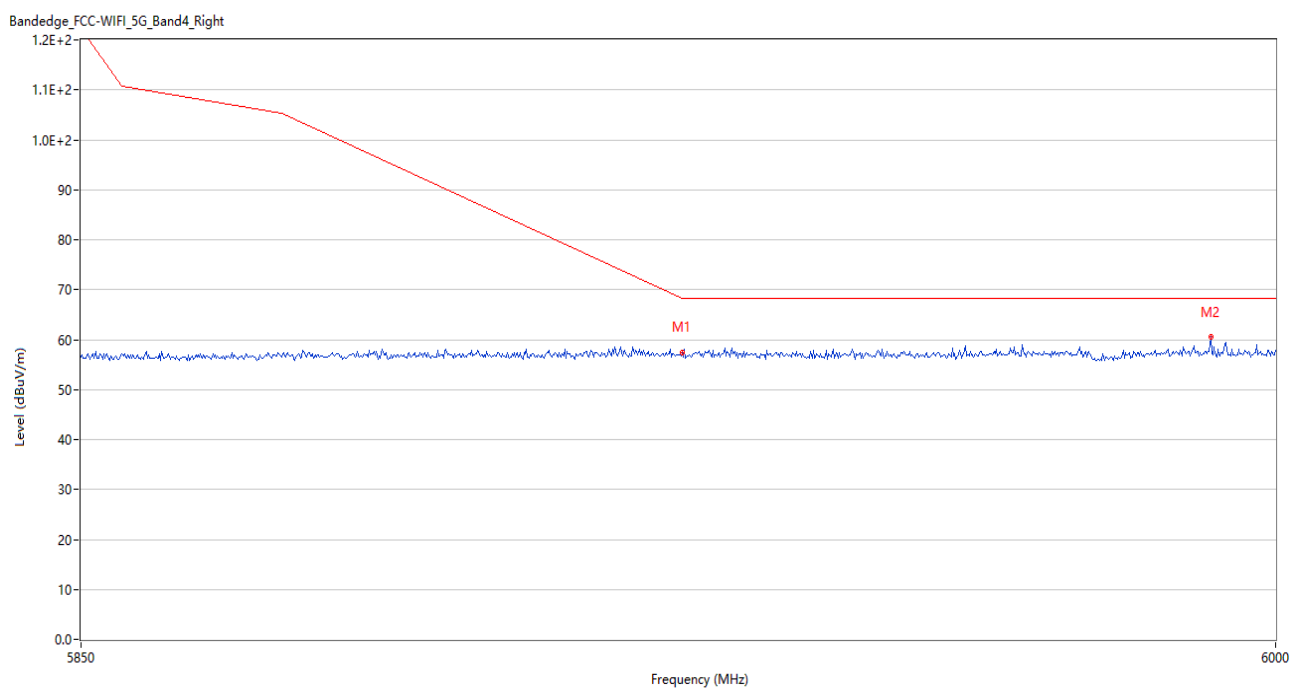
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	56.10	4.31	68.2	12.10	Peak	130.00	150	Vertical	Pass
2	5757.875	58.16	4.57	68.2	10.04	Peak	240.00	150	Vertical	Pass

U-NII-3 11a CH149



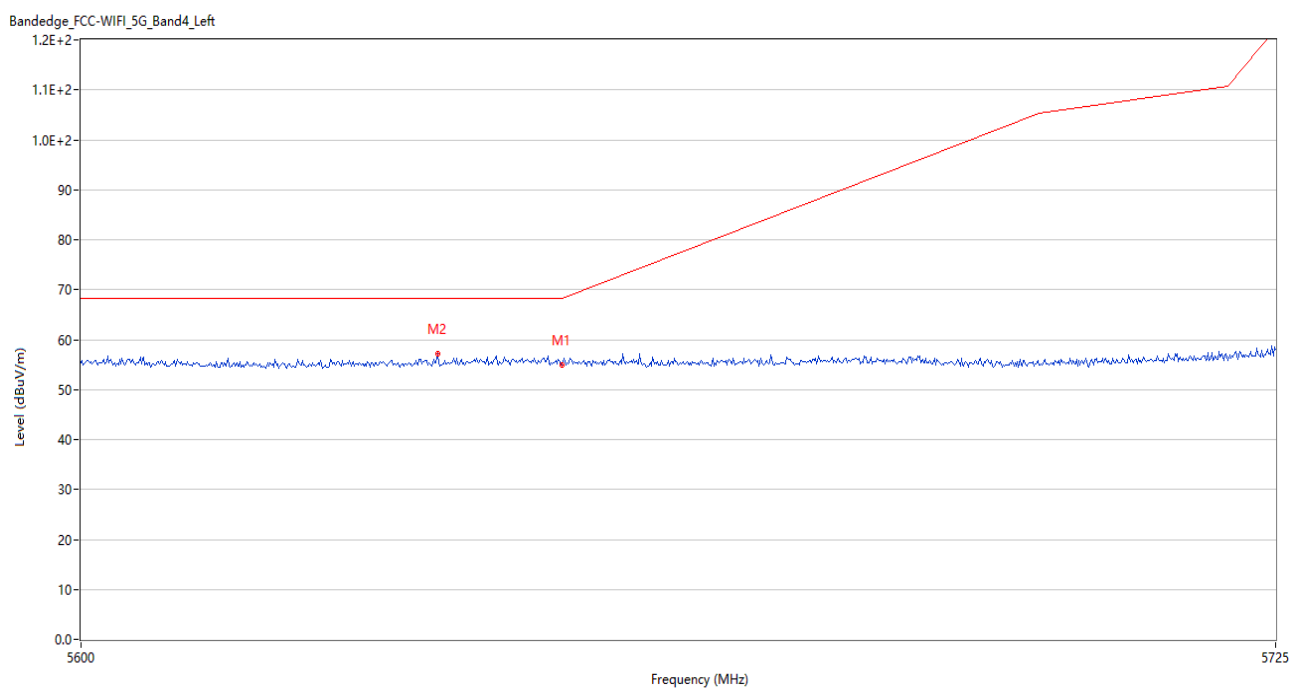
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.86	3.81	68.2	12.34	Peak	47.97	150	Horizontal	Pass
2	5639.250	57.49	3.74	68.2	10.71	Peak	191.00	150	Horizontal	Pass

U-NII-3 11a CH165



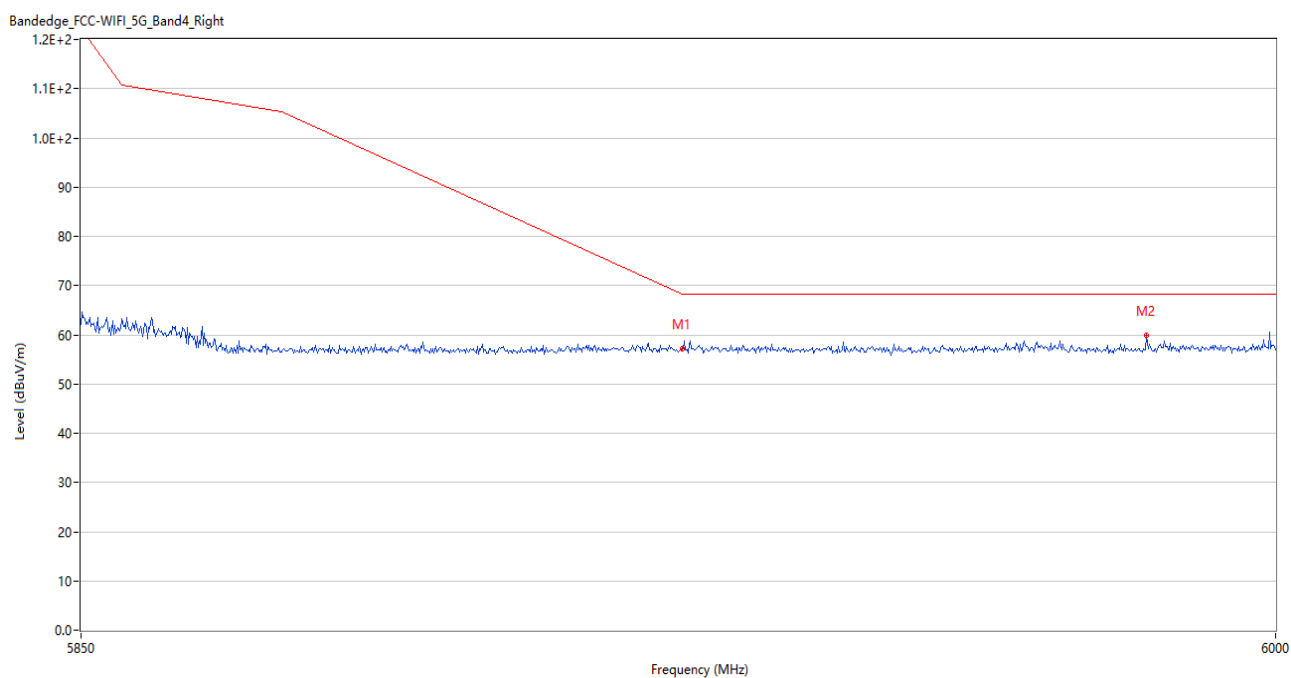
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.29	6.44	68.2	10.91	Peak	247.82	150	Vertical	Pass
2	5991.750	60.54	6.40	68.2	7.66	Peak	193.00	150	Vertical	Pass

U-NII-3 11ac20 CH149



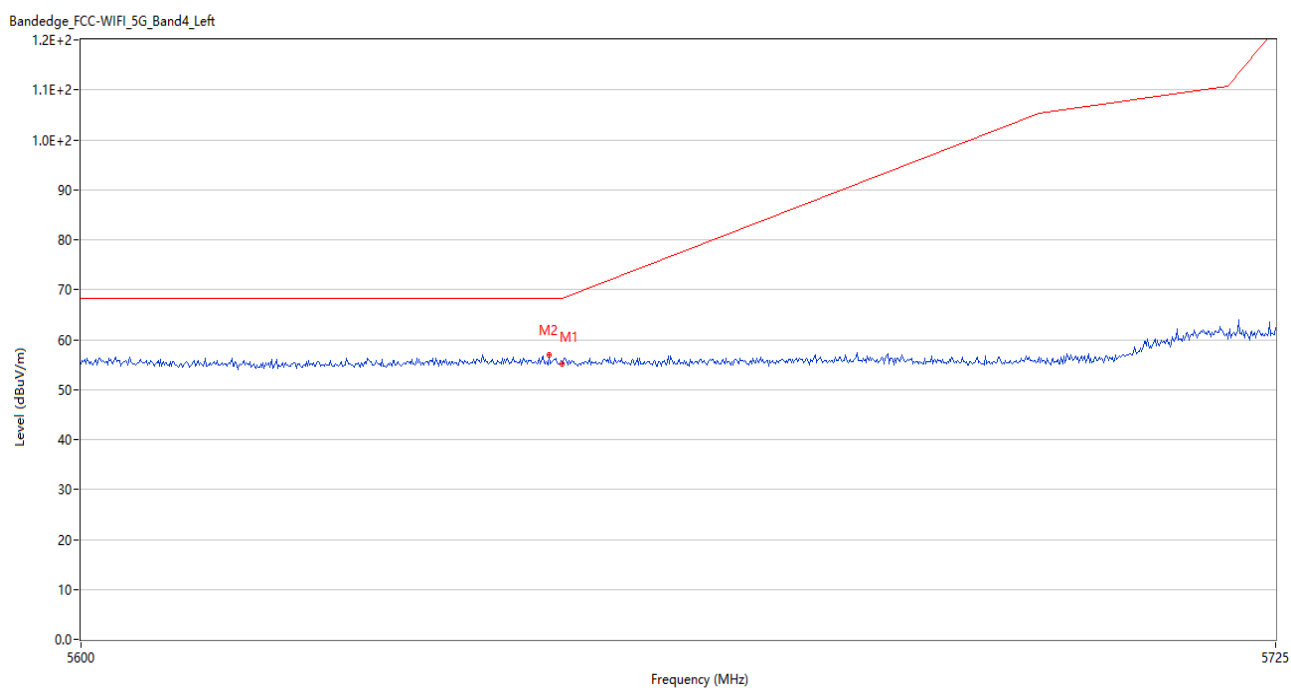
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	54.82	3.81	68.2	13.38	Peak	0.00	150	Horizontal	Pass
2	5637.000	57.19	3.72	68.2	11.01	Peak	0.00	150	Horizontal	Pass

U-NII-3 11ac20 CH165



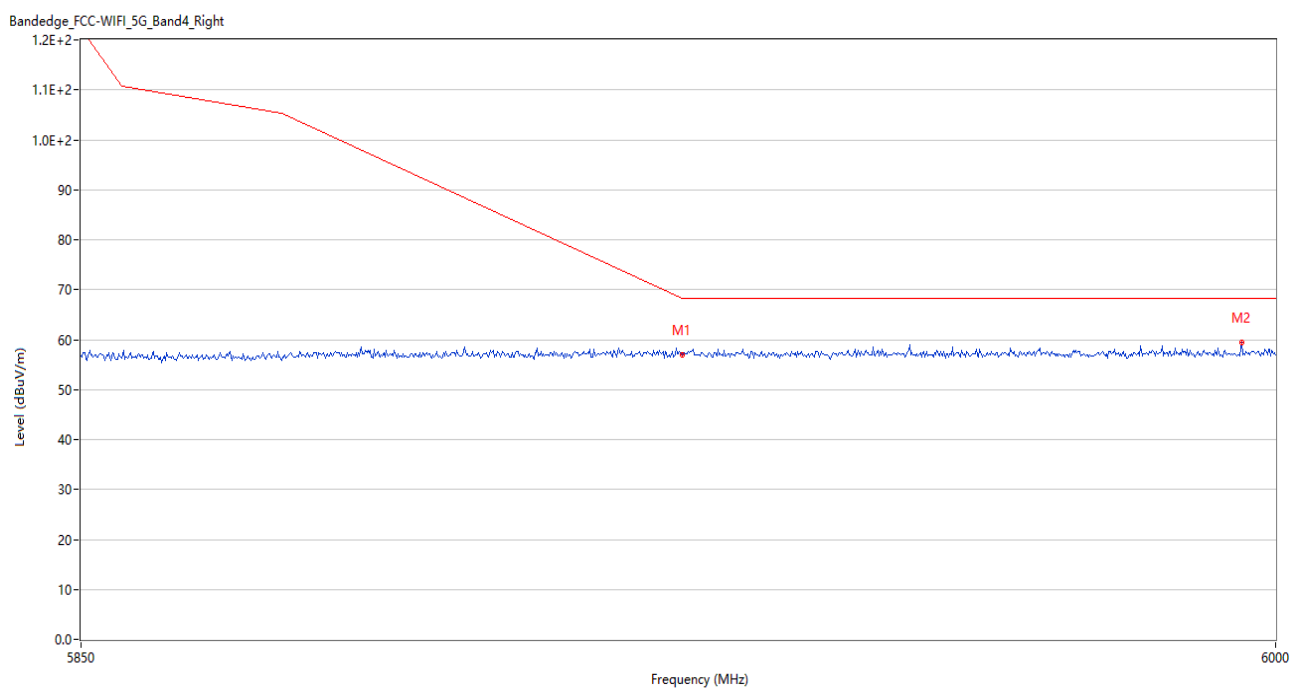
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.24	6.44	68.2	10.96	Peak	0.15	150	Horizontal	Pass
2	5983.650	59.98	6.17	68.2	8.22	Peak	204.00	150	Horizontal	Pass

U-NII-3 11ac40 CH151



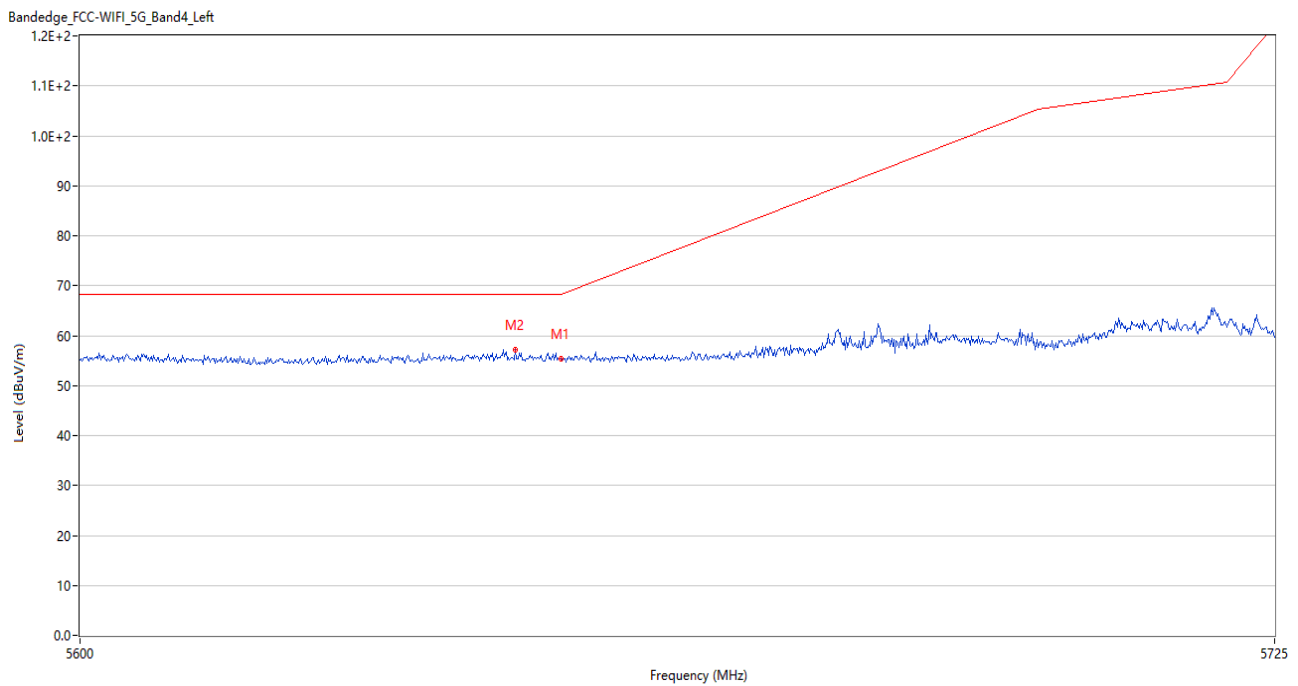
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.17	3.81	68.2	13.03	Peak	331.02	150	Vertical	Pass
2	5648.625	56.98	3.80	68.2	11.22	Peak	196.00	150	Vertical	Pass

U-NII-3 11ac40 CH159



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.02	6.44	68.2	11.18	Peak	306.07	150	Vertical	Pass
2	5995.650	59.39	6.46	68.2	8.81	Peak	360.00	150	Vertical	Pass

U-NII-3 11ac80 CH155

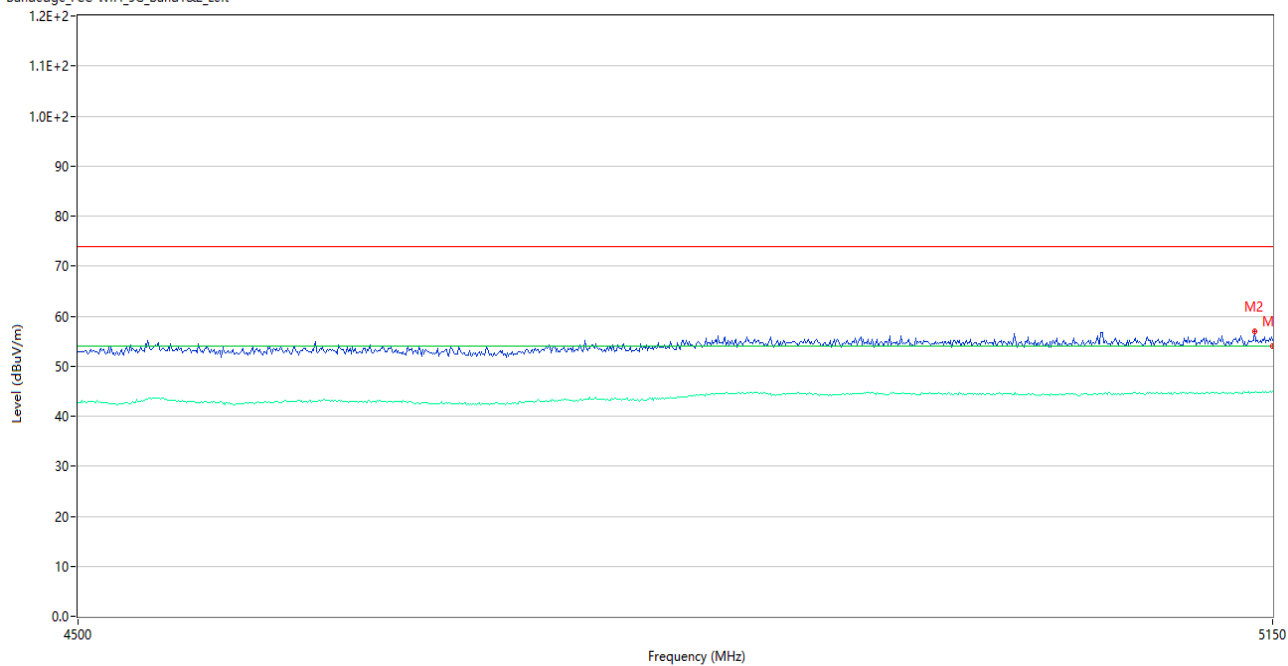


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.27	3.81	68.2	12.93	Peak	1.29	150	Horizontal	Pass
2	5645.250	57.07	3.77	68.2	11.13	Peak	306.00	150	Horizontal	Pass

Aux. Antenna:

U-NII-1 11a CH36

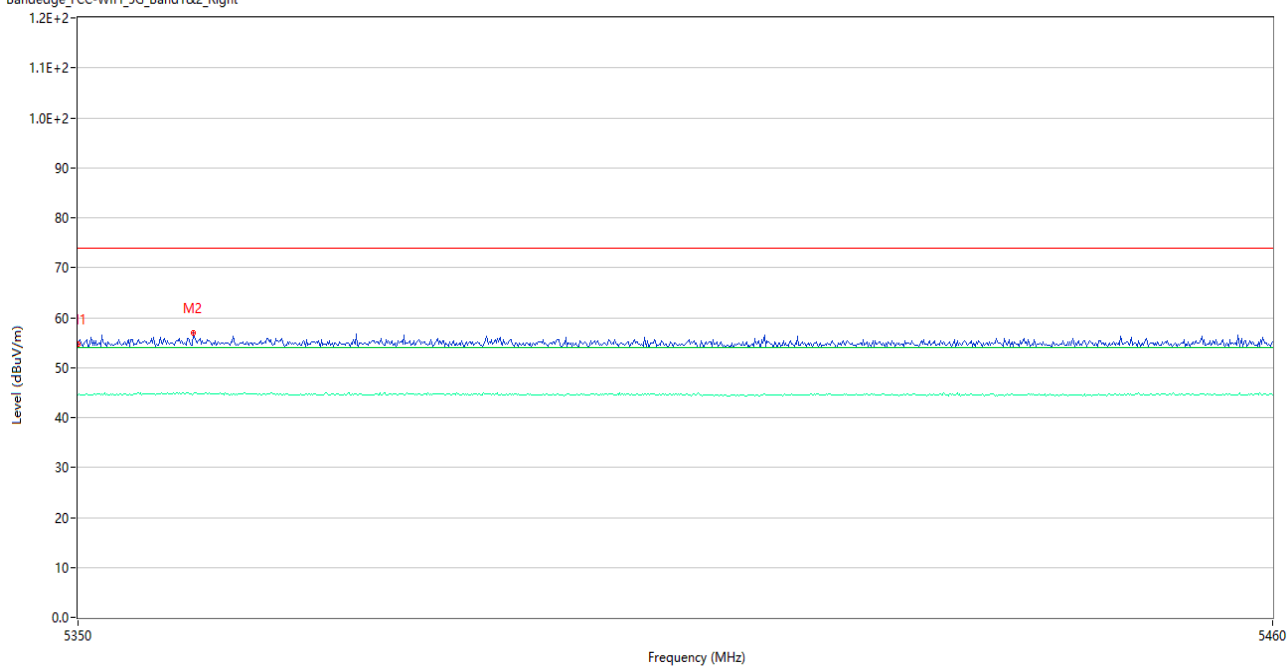
Bandedge_FCC-WIFI_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.06	3.82	74.0	18.94	Peak	57.02	150	Vertical	Pass
1**	5150.000	45.00	3.82	54.0	9.00	AV	57.02	150	Vertical	Pass
2	5139.600	56.92	4.07	74.0	17.08	Peak	276.00	150	Vertical	Pass
2**	5139.600	44.79	4.07	54.0	9.21	AV	276.00	150	Vertical	Pass

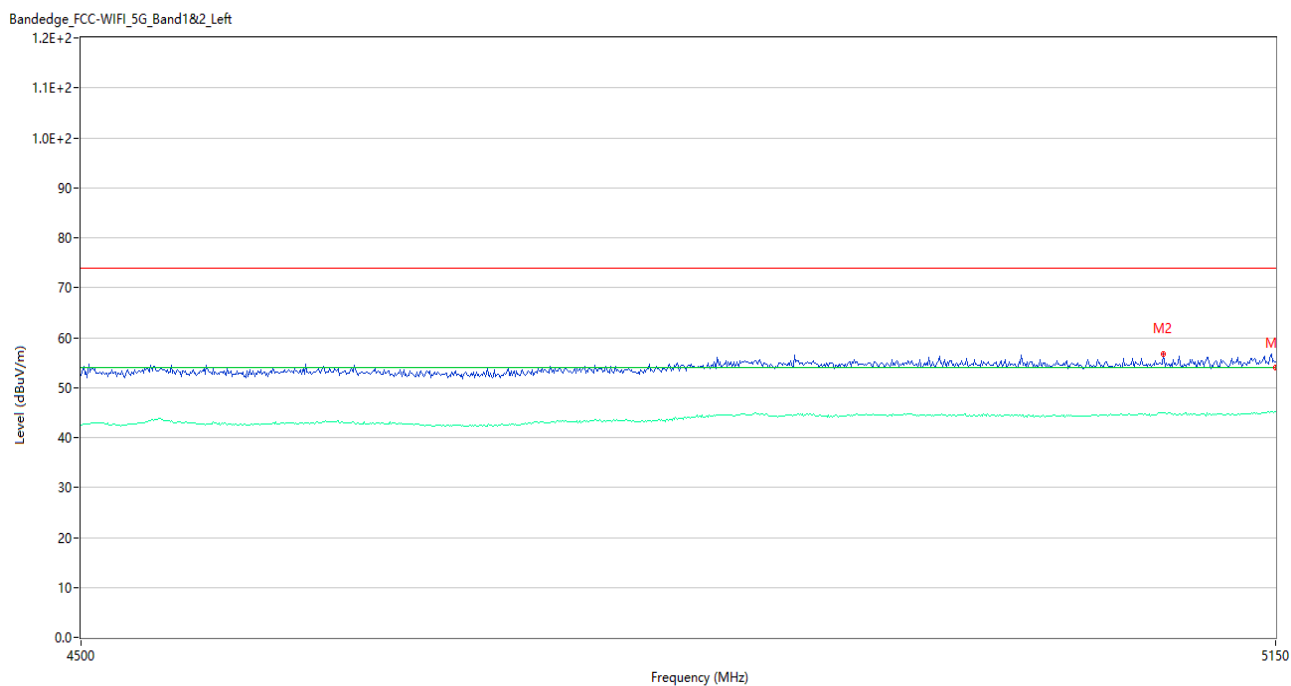
U-NII-1 11a CH48

Bandedge_FCC-WIFI_5G_Band1&2_Right



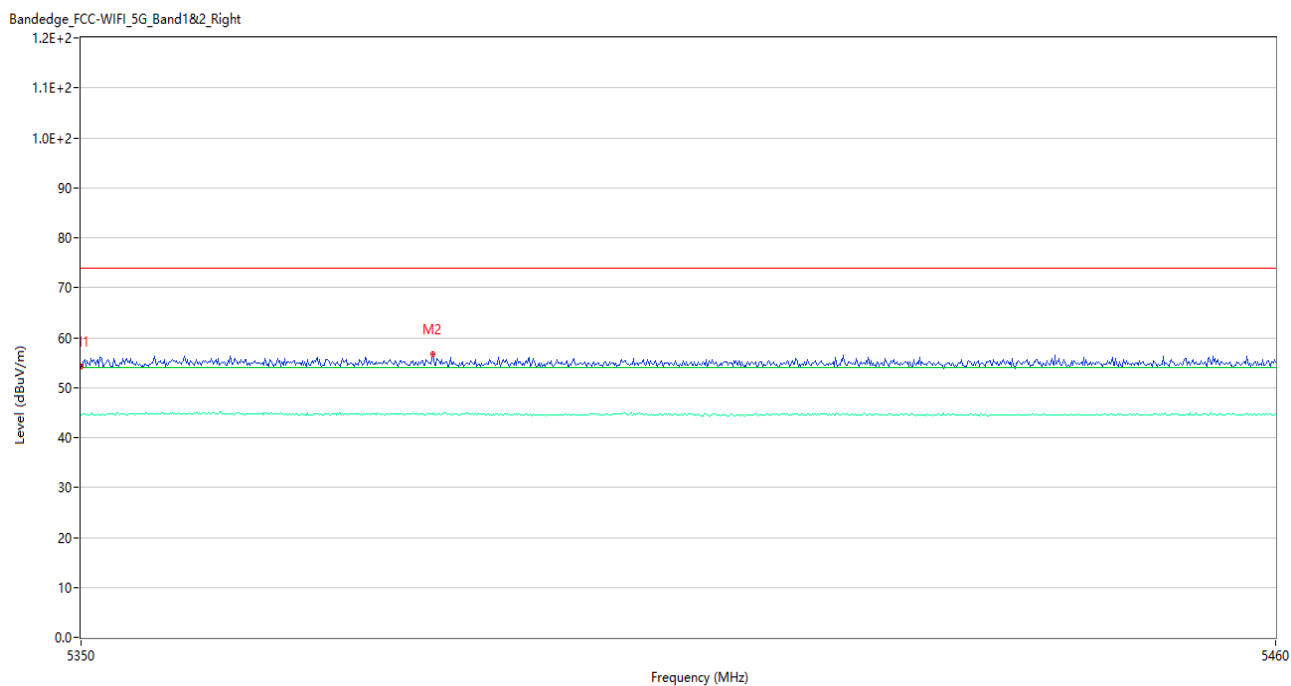
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.70	4.04	74.0	19.30	Peak	260.00	150	Horizontal	Pass
1**	5350.000	44.54	4.04	54.0	9.46	AV	260.00	150	Horizontal	Pass
2	5360.560	57.03	4.23	74.0	16.97	Peak	64.00	150	Horizontal	Pass
2**	5360.560	44.74	4.23	54.0	9.26	AV	64.00	150	Horizontal	Pass

U-NII-1 11ac20 CH36



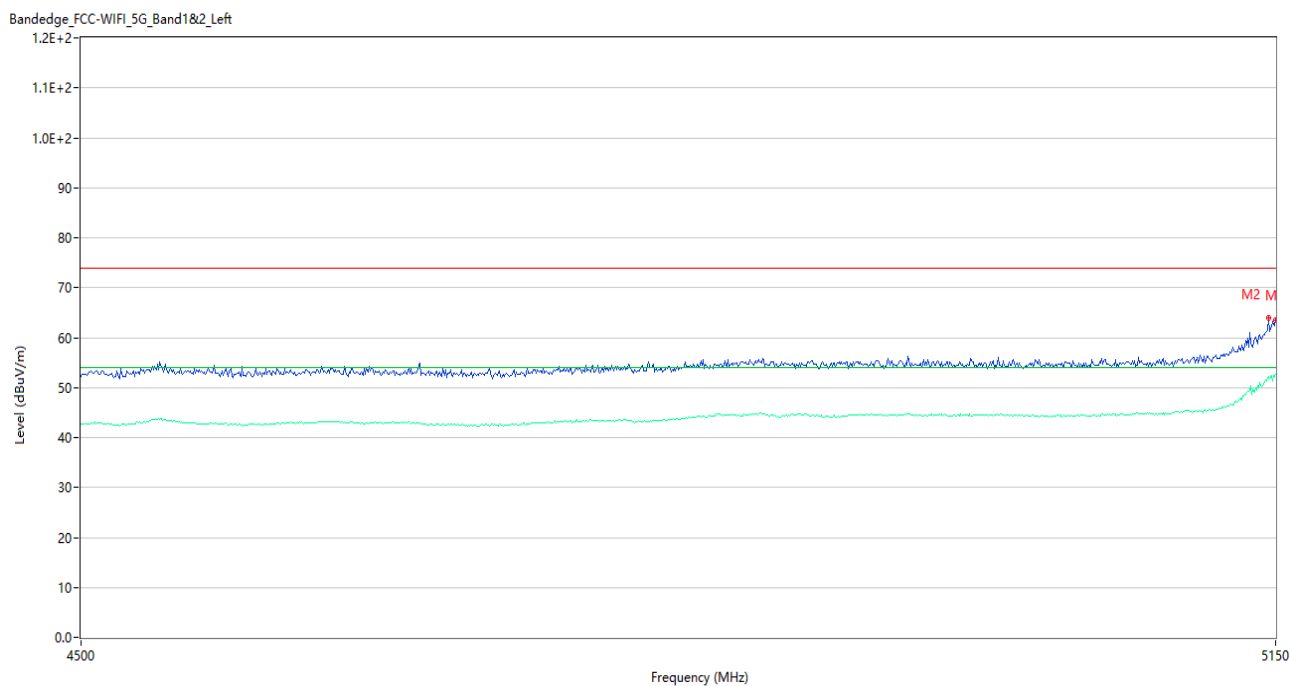
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.06	3.82	74.0	18.94	Peak	150.02	150	Vertical	Pass
1**	5150.000	45.16	3.82	54.0	8.84	AV	150.02	150	Vertical	Pass
2	5085.000	56.83	3.44	74.0	17.17	Peak	245.00	150	Vertical	Pass
2**	5085.000	44.95	3.44	54.0	9.05	AV	245.00	150	Vertical	Pass

U-NII-1 11ac20 CH48



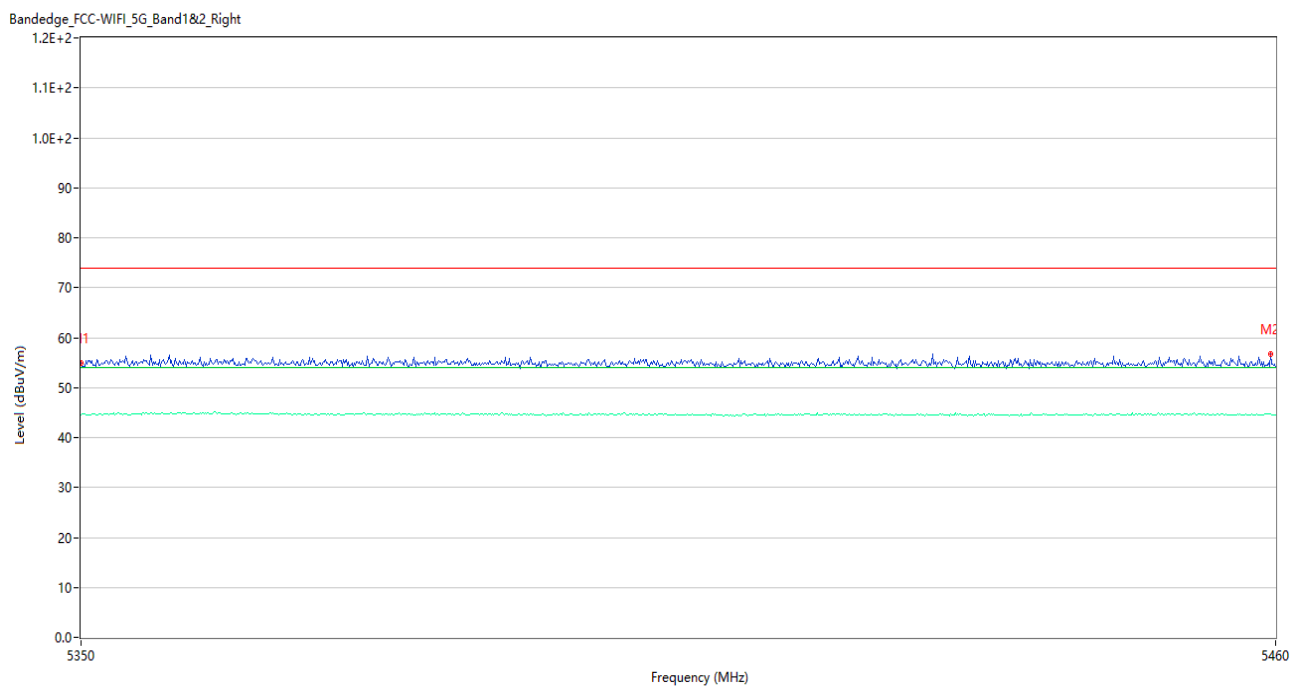
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.25	4.04	74.0	19.75	Peak	200.00	150	Vertical	Pass
1**	5350.000	44.47	4.04	54.0	9.53	AV	200.00	150	Vertical	Pass
2	5382.120	56.80	4.05	74.0	17.20	Peak	212.00	150	Vertical	Pass
2**	5382.120	44.70	4.05	54.0	9.30	AV	212.00	150	Vertical	Pass

U-NII-1 11ac40 CH38



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	63.42	3.82	74.0	10.58	Peak	323.00	150	Horizontal	Pass
1**	5150.000	52.76	3.82	54.0	1.24	AV	323.00	150	Horizontal	Pass
2	5146.100	63.91	3.93	74.0	10.09	Peak	329.00	150	Horizontal	Pass
2**	5146.100	52.13	3.93	54.0	1.87	AV	329.00	150	Horizontal	Pass

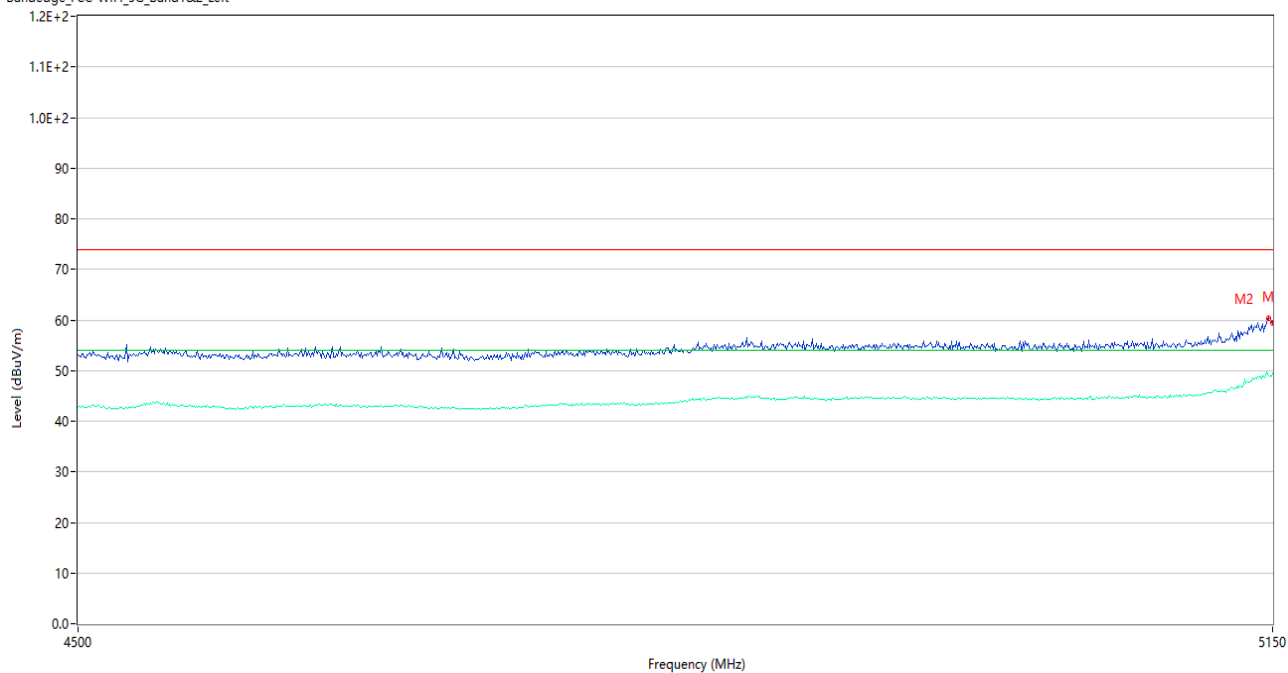
U-NII-1 11ac40 CH46



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.81	4.04	74.0	19.19	Peak	360.00	150	Vertical	Pass
1**	5350.000	44.59	4.04	54.0	9.41	AV	360.00	150	Vertical	Pass
2	5459.560	56.81	3.78	74.0	17.19	Peak	338.00	150	Vertical	Pass
2**	5459.560	44.71	3.78	54.0	9.29	AV	338.00	150	Vertical	Pass

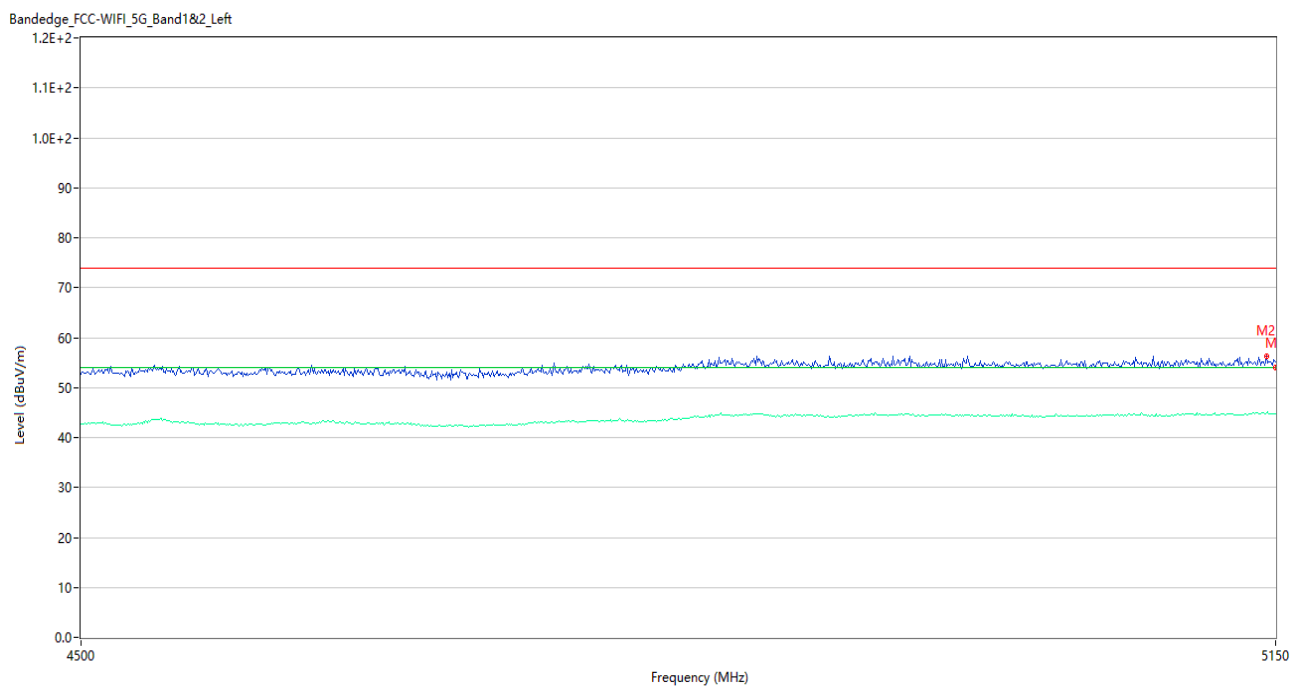
U-NII-1 11ac80 CH42

Bandedge_FCC-WIFI_5G_Band1&2_Left



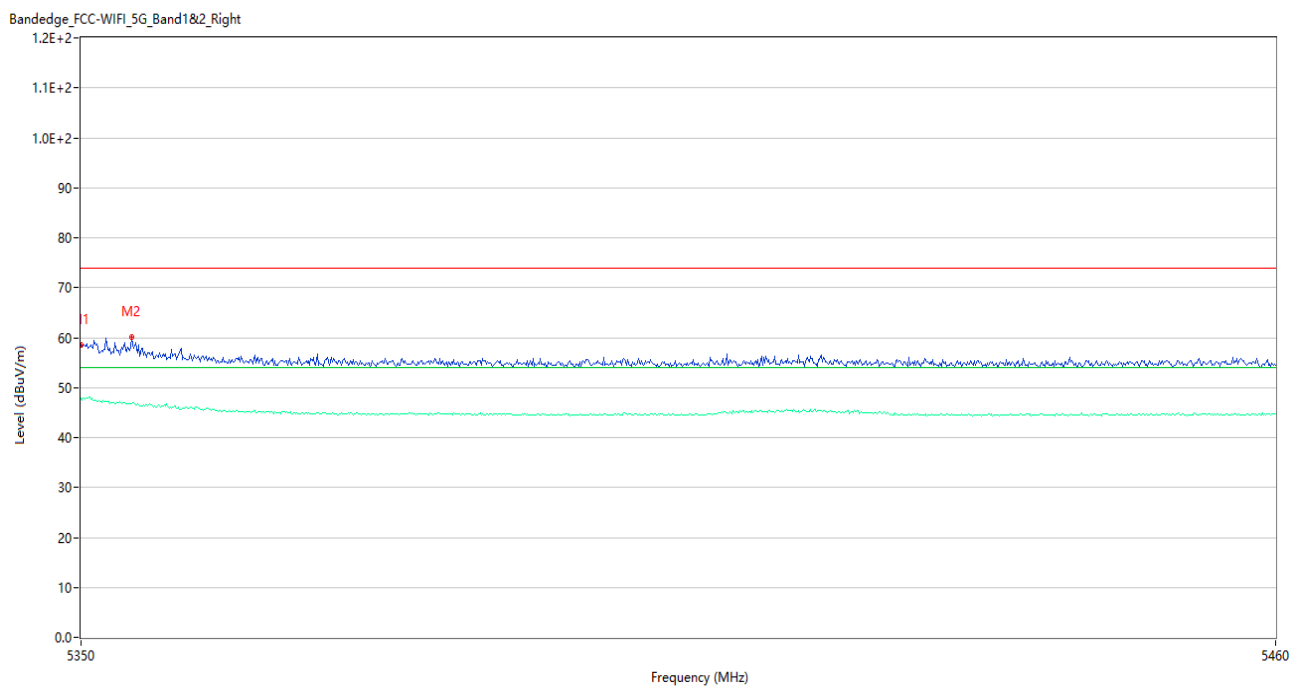
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	59.55	3.82	74.0	14.45	Peak	320.99	150	Vertical	Pass
1**	5150.000	49.41	3.82	54.0	4.59	AV	320.99	150	Vertical	Pass
2	5147.400	60.31	3.89	74.0	13.69	Peak	255.00	150	Vertical	Pass
2**	5147.400	48.98	3.89	54.0	5.02	AV	255.00	150	Vertical	Pass

U-NII-2A 11a CH52



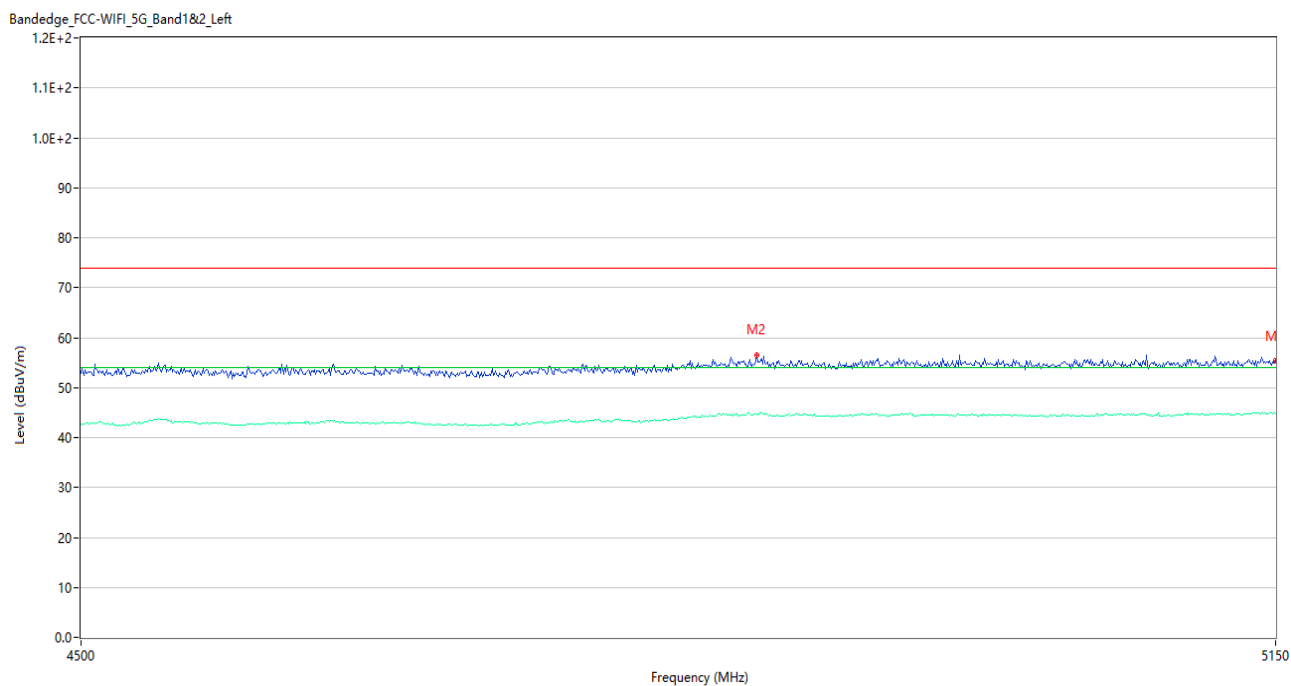
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.21	3.82	74.0	18.79	Peak	16.06	150	Horizontal	Pass
1**	5150.000	44.84	3.82	54.0	9.16	AV	16.06	150	Horizontal	Pass
2	5144.800	56.38	3.97	74.0	17.62	Peak	229.00	150	Horizontal	Pass
2**	5144.800	44.94	3.97	54.0	9.06	AV	229.00	150	Horizontal	Pass

U-NII-2A 11a CH64



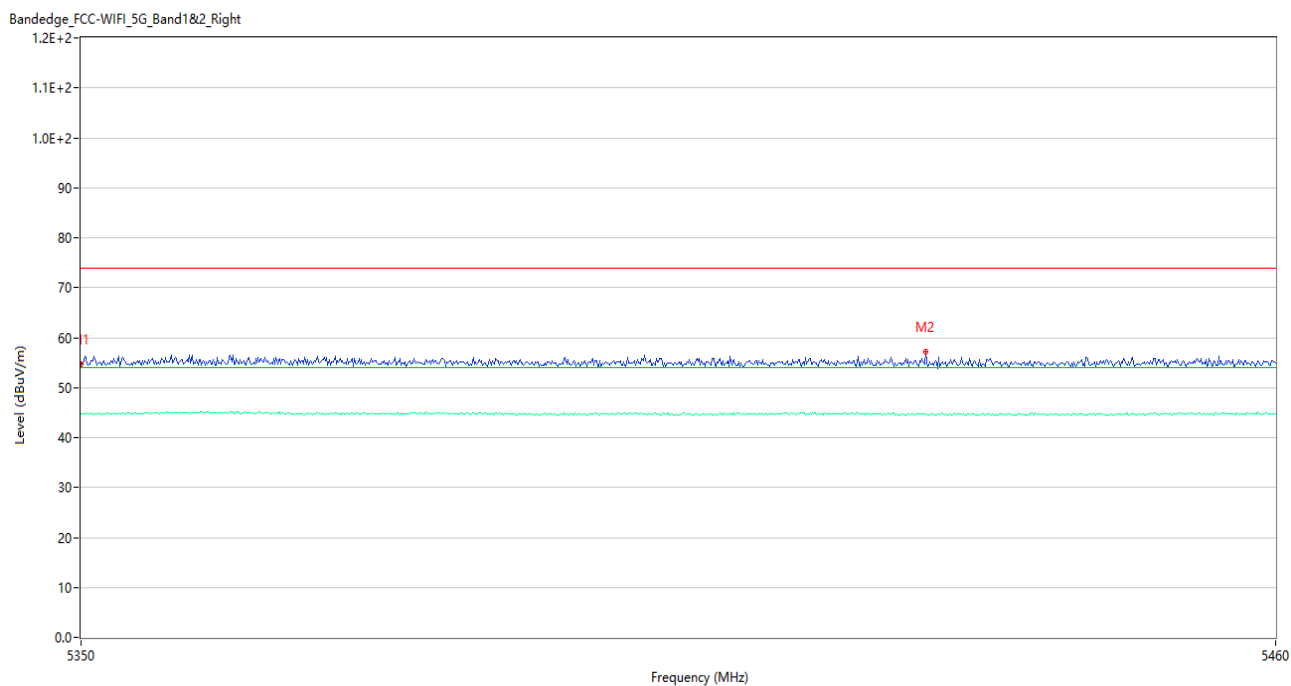
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	58.63	4.04	74.0	15.37	Peak	256.00	150	Vertical	Pass
1**	5350.000	47.98	4.04	54.0	6.02	AV	256.00	150	Vertical	Pass
2	5354.620	60.20	4.13	74.0	13.80	Peak	216.00	150	Vertical	Pass
2**	5354.620	46.70	4.13	54.0	7.30	AV	216.00	150	Vertical	Pass

U-NII-2A 11ac20 CH52



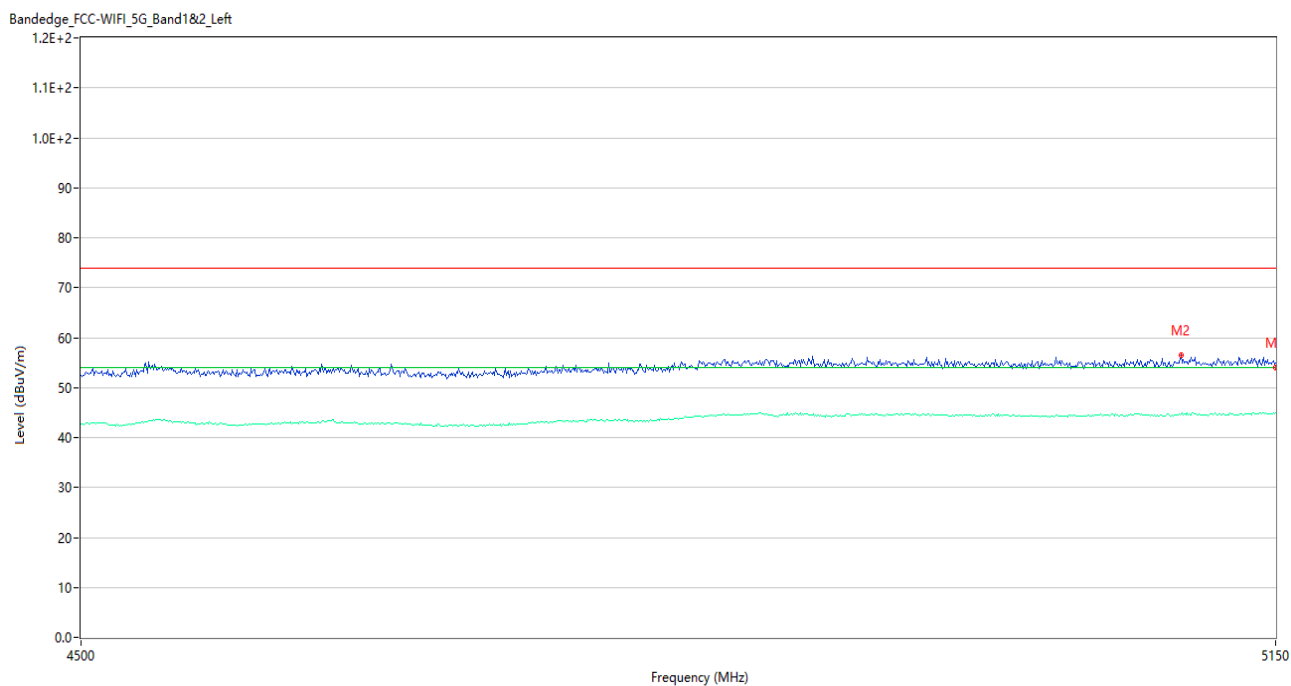
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.34	3.82	74.0	18.66	Peak	12.00	150	Horizontal	Pass
1**	5150.000	44.83	3.82	54.0	9.17	AV	12.00	150	Horizontal	Pass
2	4856.850	56.61	4.11	74.0	17.39	Peak	161.00	150	Horizontal	Pass
2**	4856.850	44.53	4.11	54.0	9.47	AV	161.00	150	Horizontal	Pass

U-NII-2A 11ac20 CH64



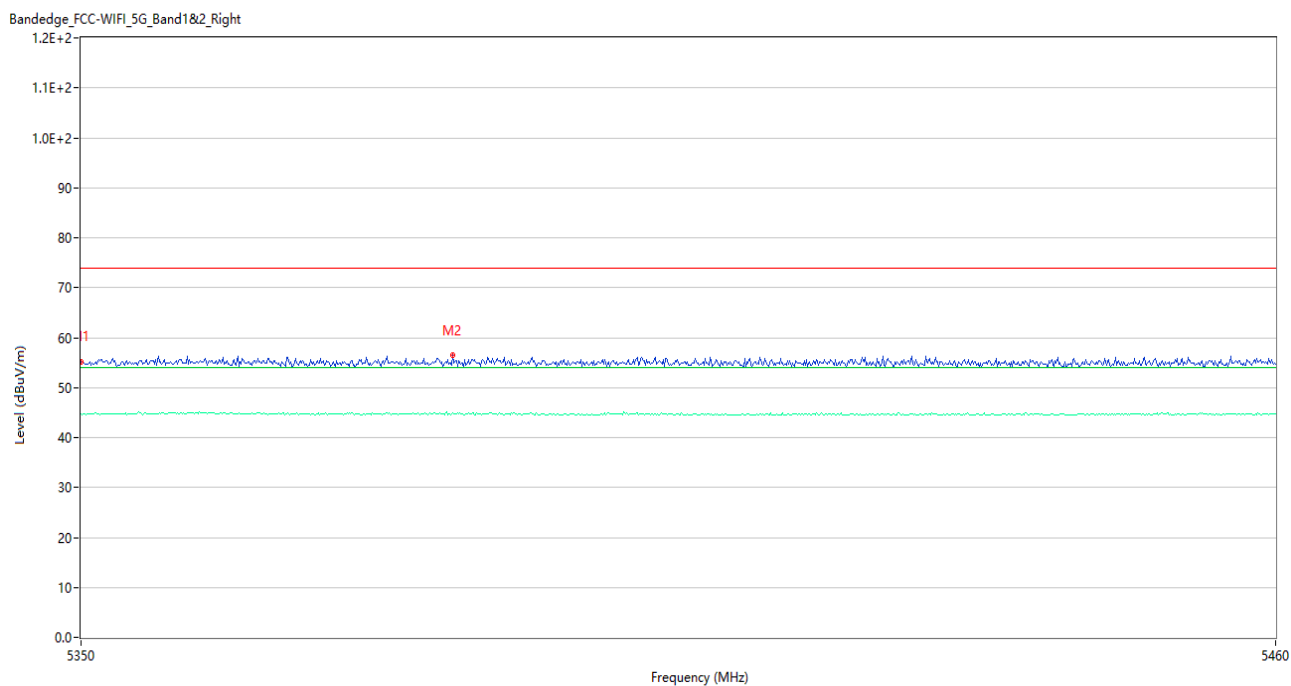
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.72	4.04	74.0	19.28	Peak	358.00	150	Horizontal	Pass
1**	5350.000	44.73	4.04	54.0	9.27	AV	358.00	150	Horizontal	Pass
2	5427.550	57.17	3.71	74.0	16.83	Peak	135.00	150	Horizontal	Pass
2**	5427.550	44.51	3.71	54.0	9.49	AV	135.00	150	Horizontal	Pass

U-NII-2A 11ac40 CH54



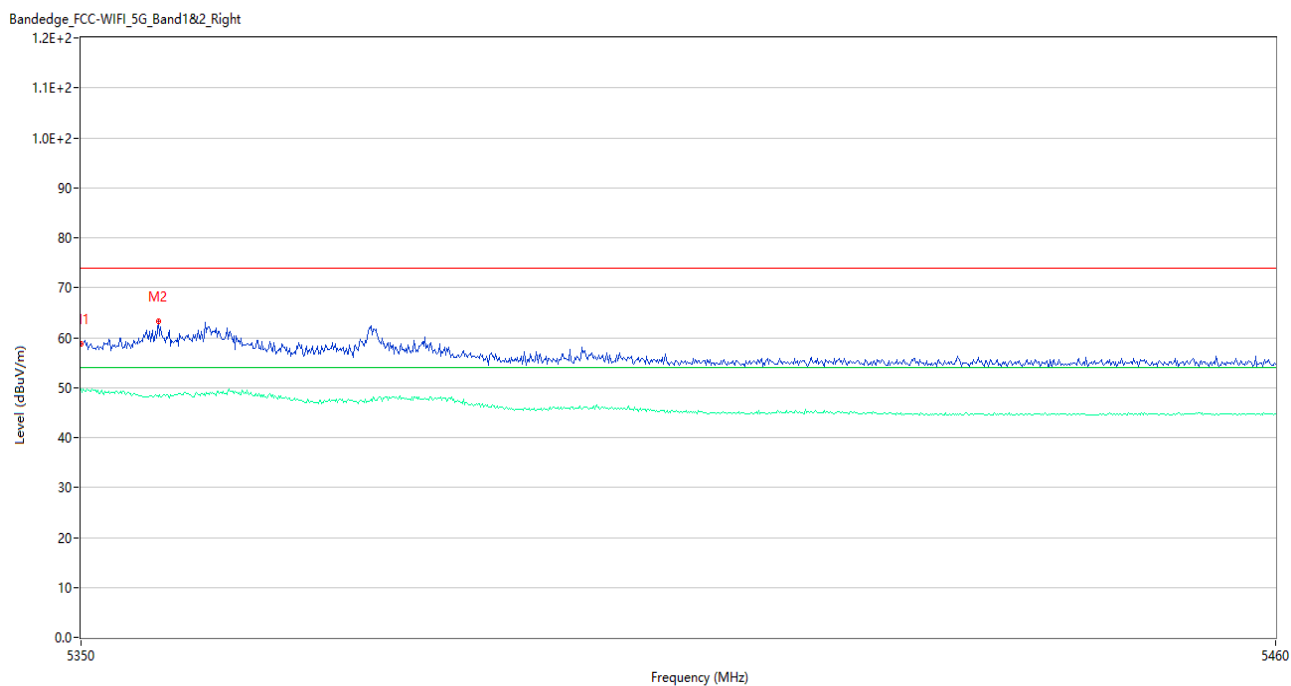
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.93	3.82	74.0	19.07	Peak	320.97	150	Vertical	Pass
1**	5150.000	44.92	3.82	54.0	9.08	AV	320.97	150	Vertical	Pass
2	5095.400	56.42	3.73	74.0	17.58	Peak	25.00	150	Vertical	Pass
2**	5095.400	44.68	3.73	54.0	9.32	AV	25.00	150	Vertical	Pass

U-NII-2A 11ac40 CH62



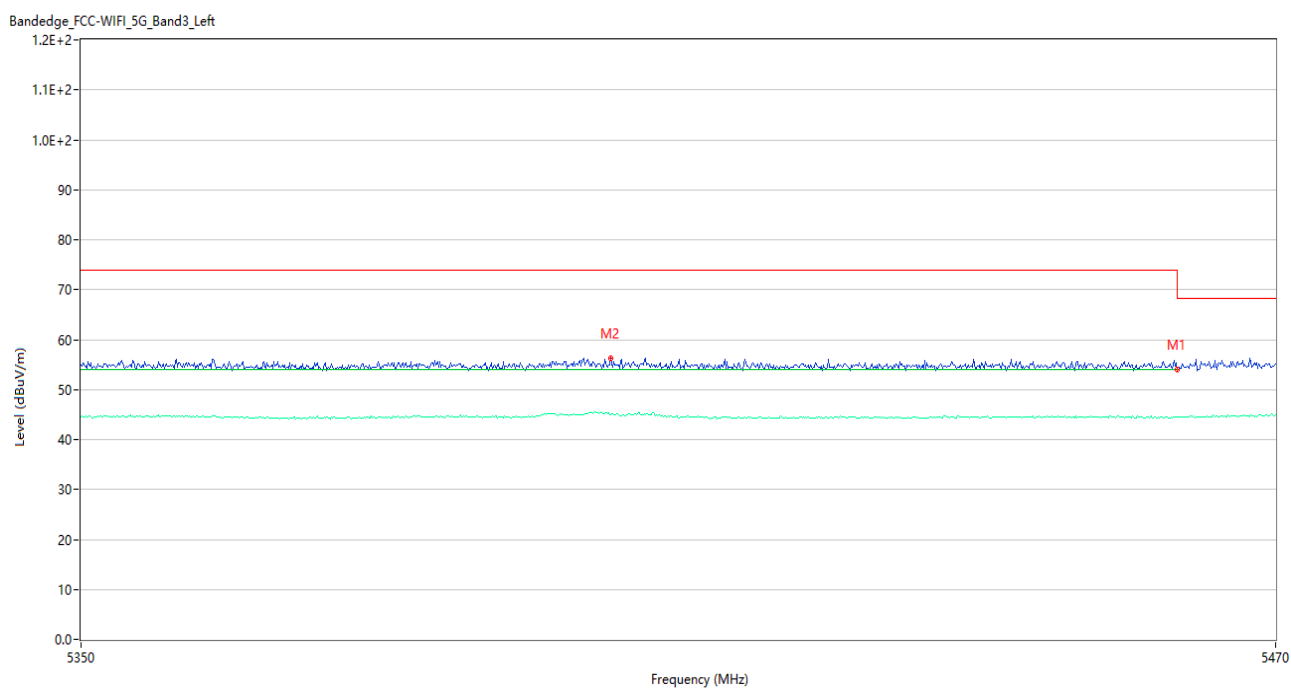
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.25	4.04	74.0	18.75	Peak	10.00	150	Vertical	Pass
1**	5350.000	44.64	4.04	54.0	9.36	AV	10.00	150	Vertical	Pass
2	5383.990	56.42	4.06	74.0	17.58	Peak	277.00	150	Vertical	Pass
2**	5383.990	44.91	4.06	54.0	9.09	AV	277.00	150	Vertical	Pass

U-NII-2A 11ac80 CH58



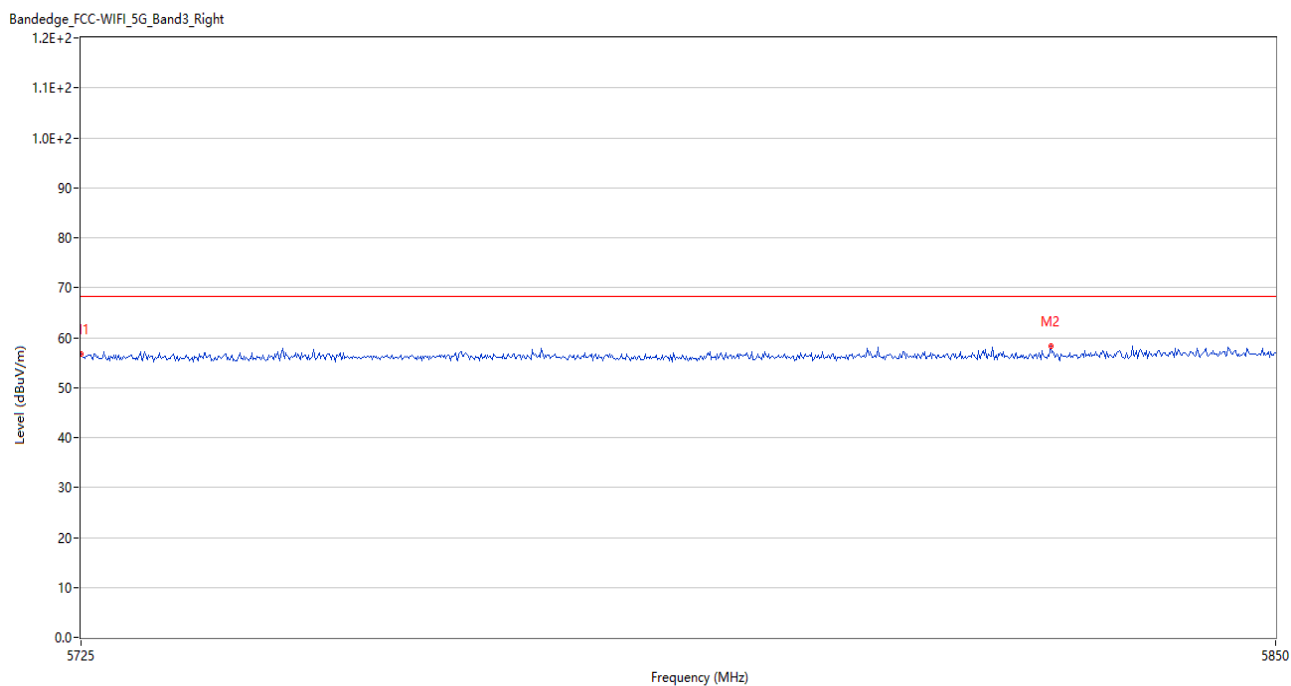
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	58.86	4.04	74.0	15.14	Peak	266.00	150	Horizontal	Pass
1**	5350.000	49.74	4.04	54.0	4.26	AV	266.00	150	Horizontal	Pass
2	5357.040	63.22	4.19	74.0	10.78	Peak	264.00	150	Horizontal	Pass
2**	5357.040	48.05	4.19	54.0	5.95	AV	264.00	150	Horizontal	Pass

U-NII-2C 11a CH100



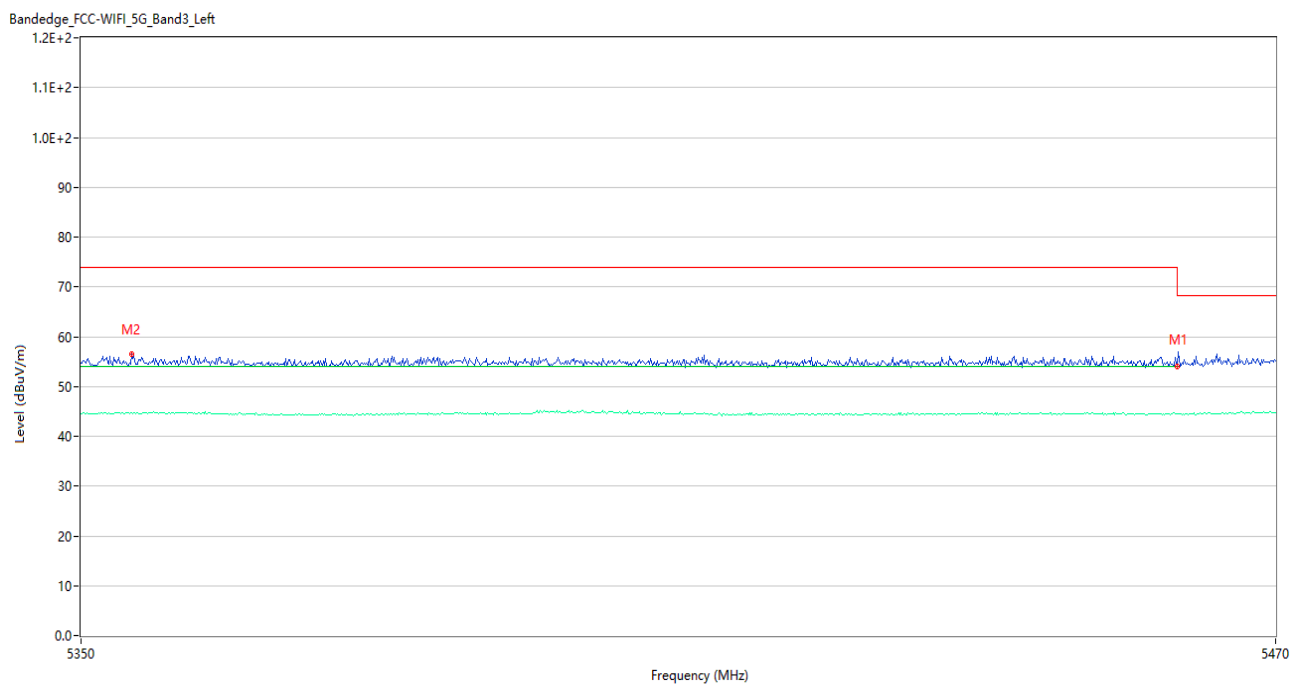
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.38	3.78	68.2	13.82	Peak	138.21	150	Vertical	Pass
1**	5460.000	44.44	3.78	54.0	9.56	AV	138.21	150	Vertical	Pass
2	5402.920	56.30	4.00	74.0	17.70	Peak	327.00	150	Vertical	Pass
2**	5402.920	45.07	4.00	54.0	8.93	AV	327.00	150	Vertical	Pass

U-NII-2C 11a CH140



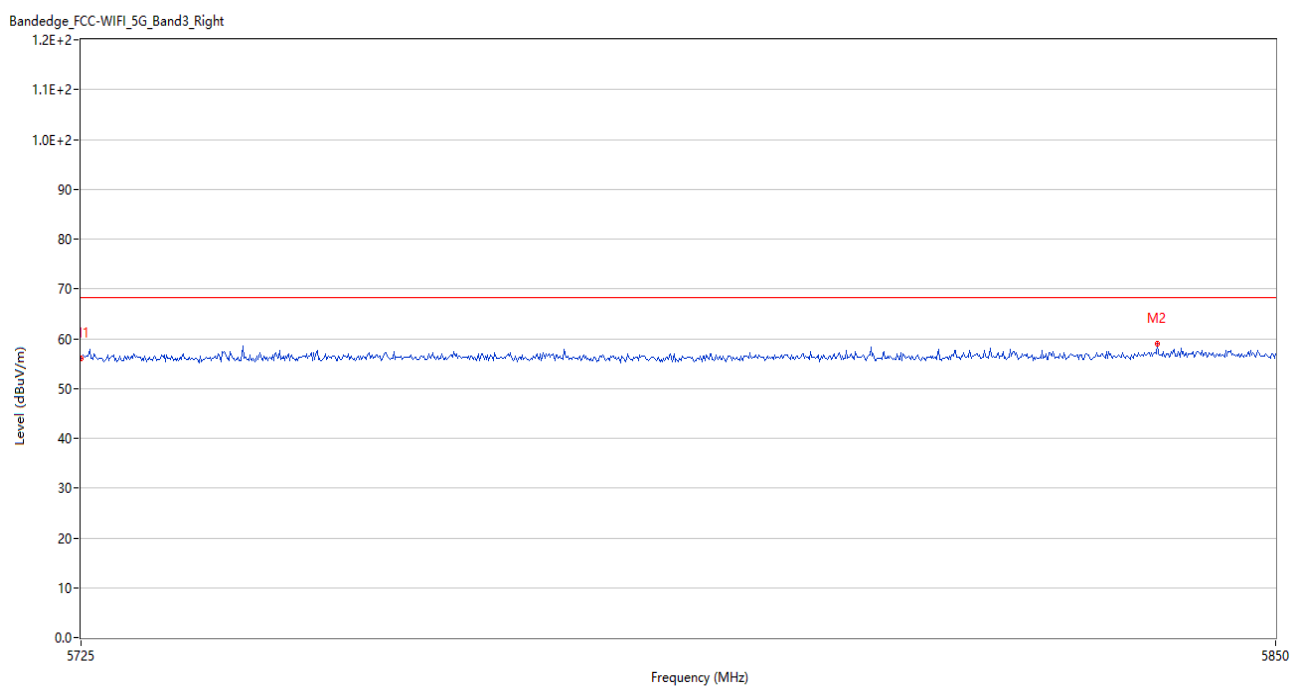
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	56.74	4.31	68.2	11.46	Peak	246.00	150	Vertical	Pass
2	5826.250	58.32	5.31	68.2	9.88	Peak	355.00	150	Vertical	Pass

U-NII-2C 11n20 CH100



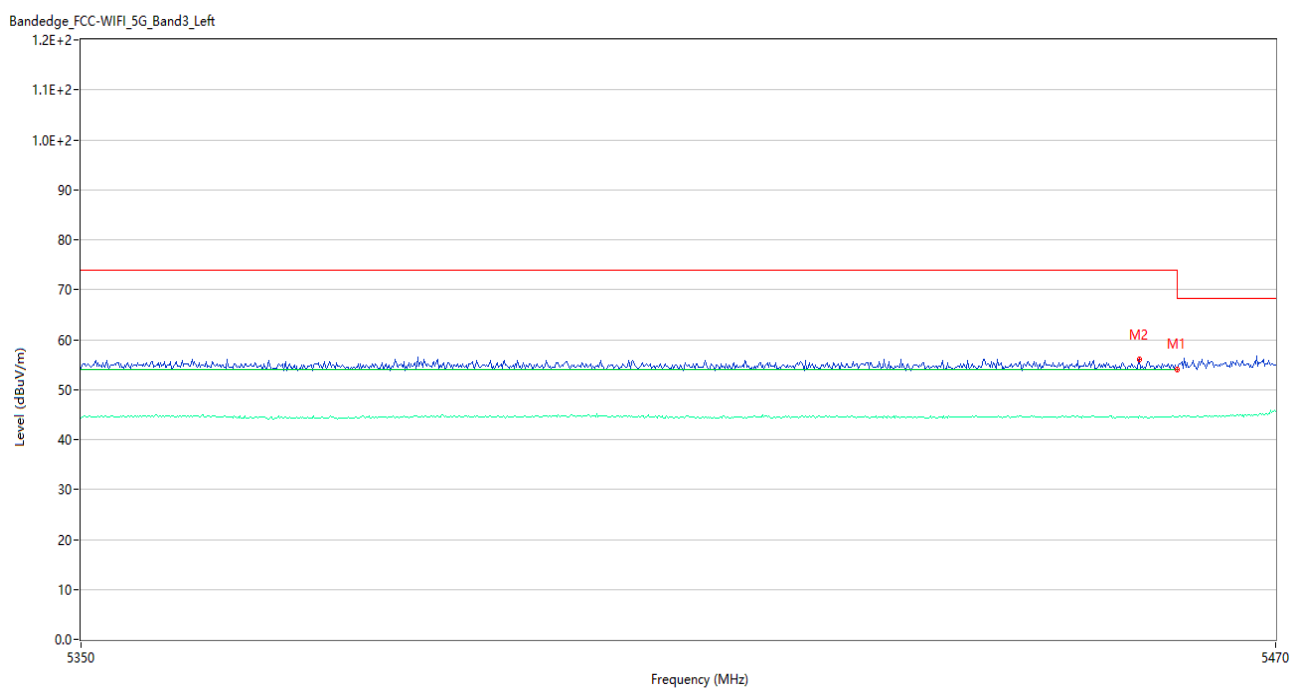
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.46	3.78	68.2	13.74	Peak	234.72	150	Vertical	Pass
1**	5460.000	44.54	3.78	54.0	9.46	AV	234.72	150	Vertical	Pass
2	5355.040	56.53	4.14	74.0	17.47	Peak	39.00	150	Vertical	Pass
2**	5355.040	44.64	4.14	54.0	9.36	AV	39.00	150	Vertical	Pass

U-NII-2C 11n20 CH140



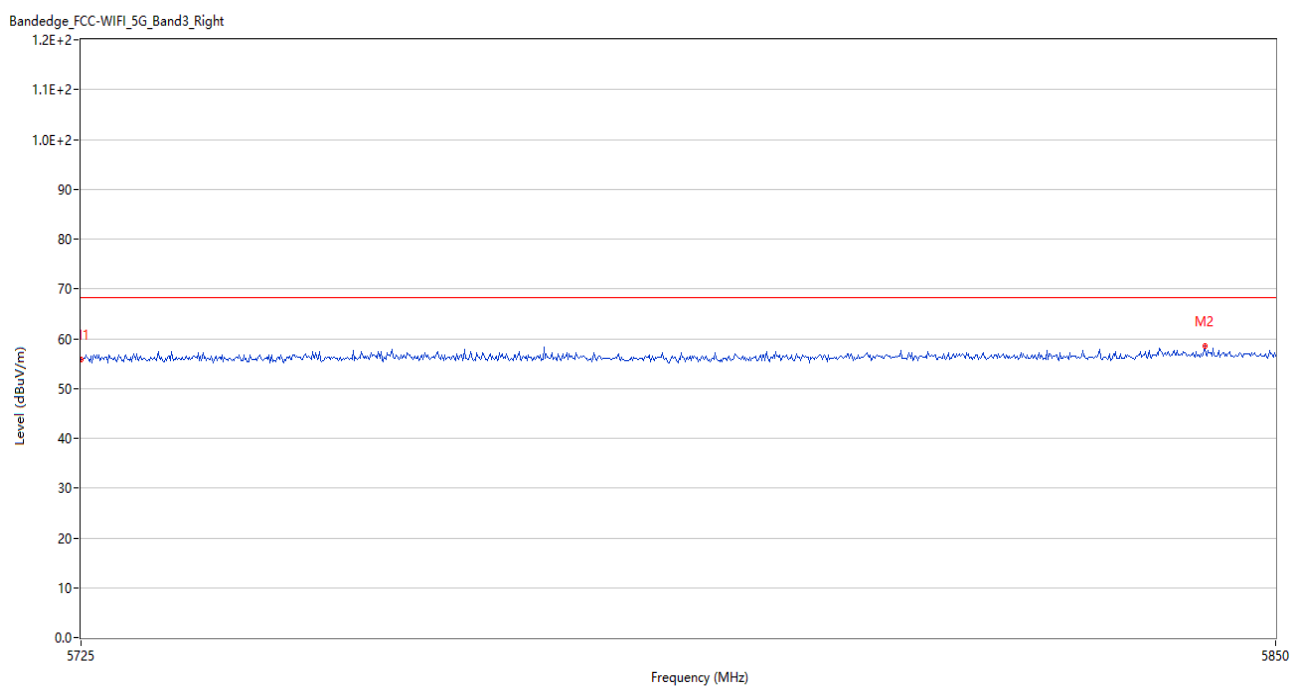
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	56.07	4.31	68.2	12.13	Peak	333.00	150	Vertical	Pass
2	5837.500	59.08	5.36	68.2	9.12	Peak	360.00	150	Vertical	Pass

U-NII-2C 11n40 CH102



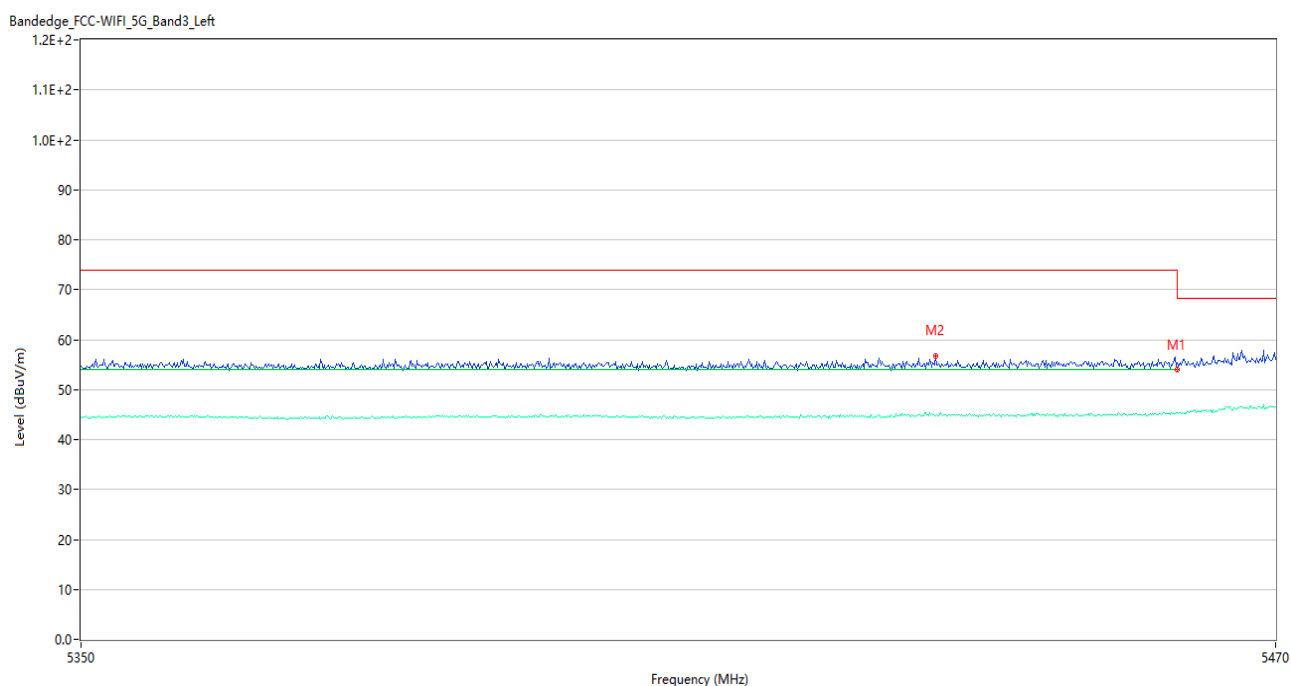
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.33	3.78	68.2	13.87	Peak	280.84	150	Vertical	Pass
1**	5460.000	44.49	3.78	54.0	9.51	AV	280.84	150	Vertical	Pass
2	5456.200	56.14	3.83	74.0	17.86	Peak	360.00	150	Vertical	Pass
2**	5456.200	44.69	3.83	54.0	9.31	AV	360.00	150	Vertical	Pass

U-NII-2C 11n40 CH134



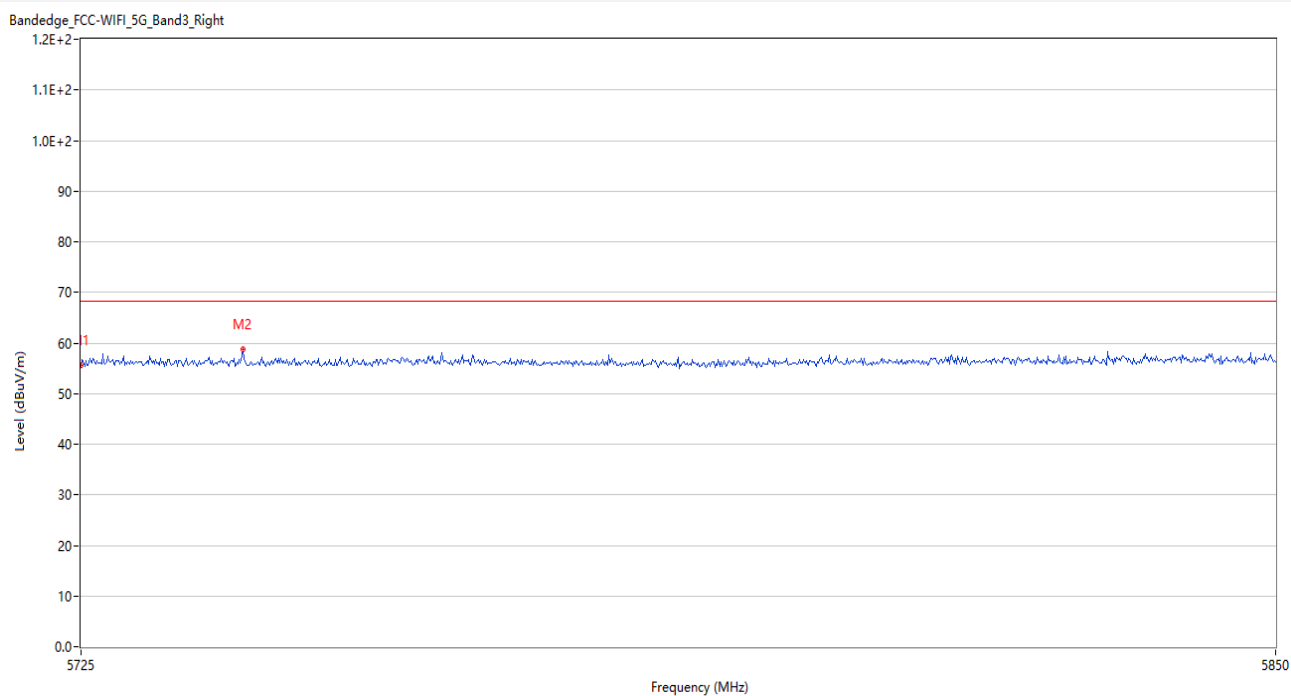
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	55.87	4.31	68.2	12.33	Peak	0.00	150	Vertical	Pass
2	5842.500	58.55	5.36	68.2	9.65	Peak	102.00	150	Vertical	Pass

U-NII-2C 11ac80 CH106



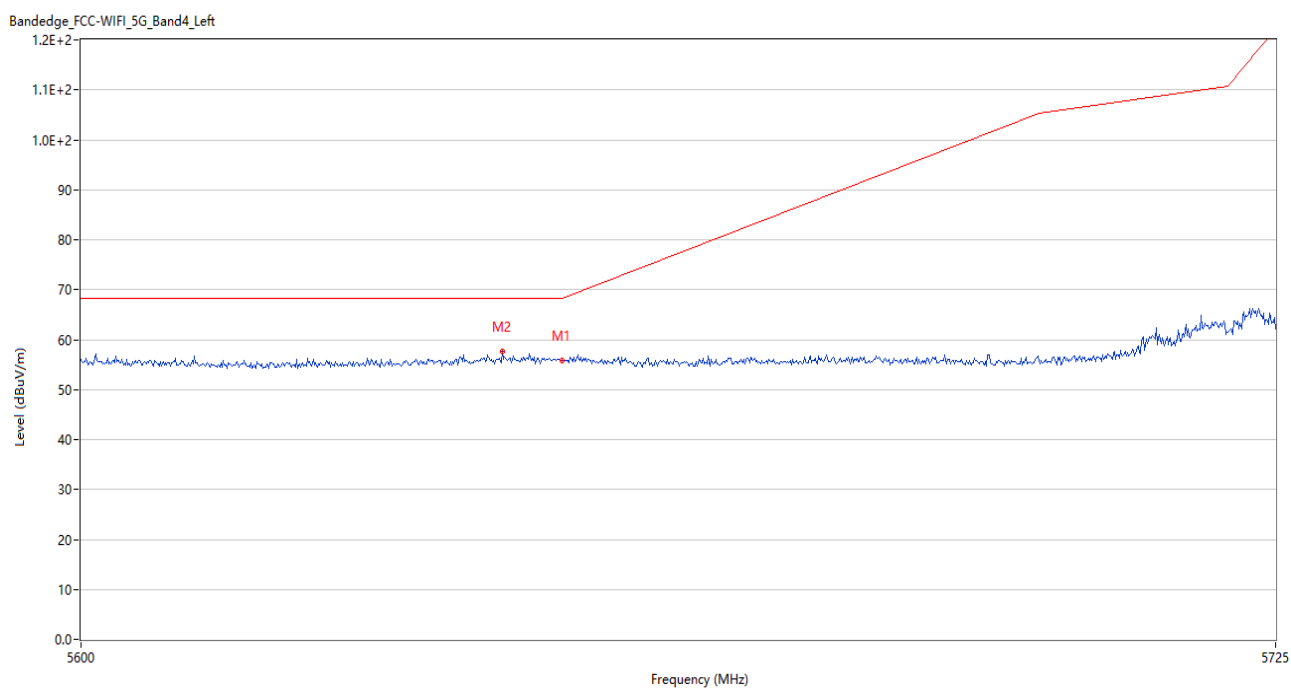
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.97	3.78	68.2	13.23	Peak	214.80	150	Vertical	Pass
1**	5460.000	45.38	3.78	54.0	8.62	AV	214.80	150	Vertical	Pass
2	5435.560	56.70	3.70	74.0	17.30	Peak	322.00	150	Vertical	Pass
2**	5435.560	44.68	3.70	54.0	9.32	AV	322.00	150	Vertical	Pass

U-NII-2C 11ac80 CH122



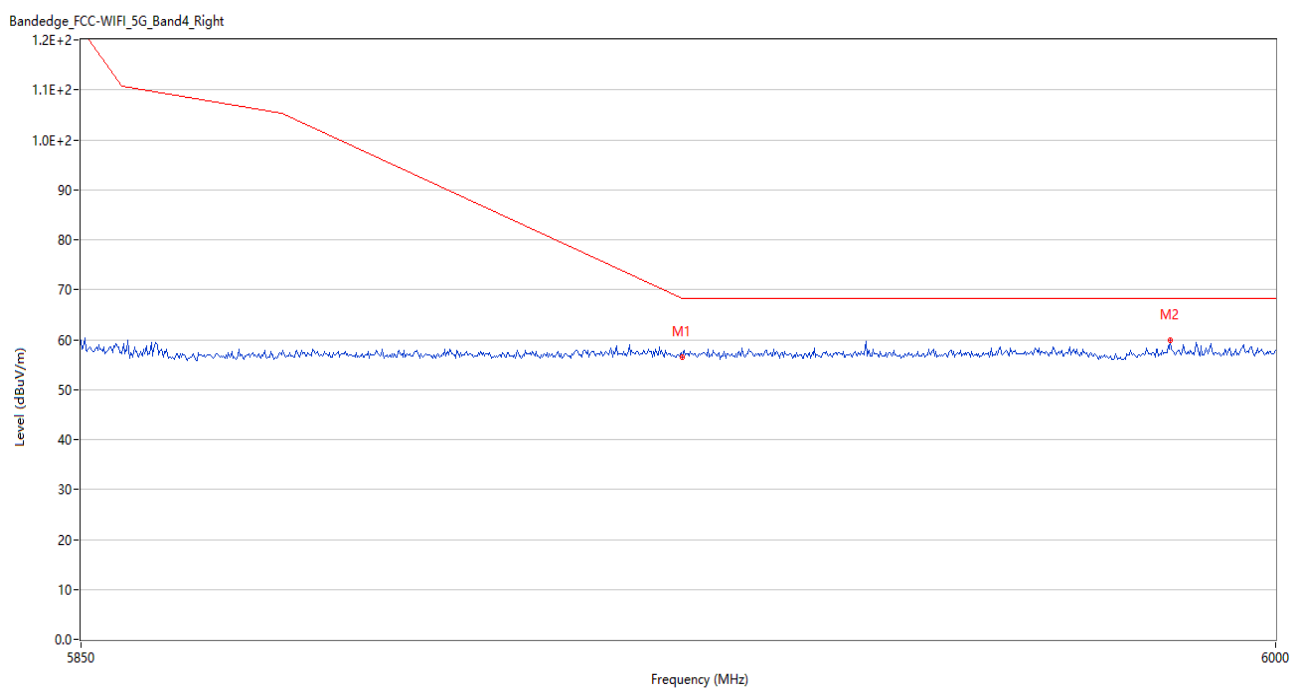
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	55.49	4.31	68.2	12.71	Peak	0.00	150	Horizontal	Pass
2	5741.750	58.77	4.26	68.2	9.43	Peak	178.00	150	Horizontal	Pass

U-NII-3 11a CH149



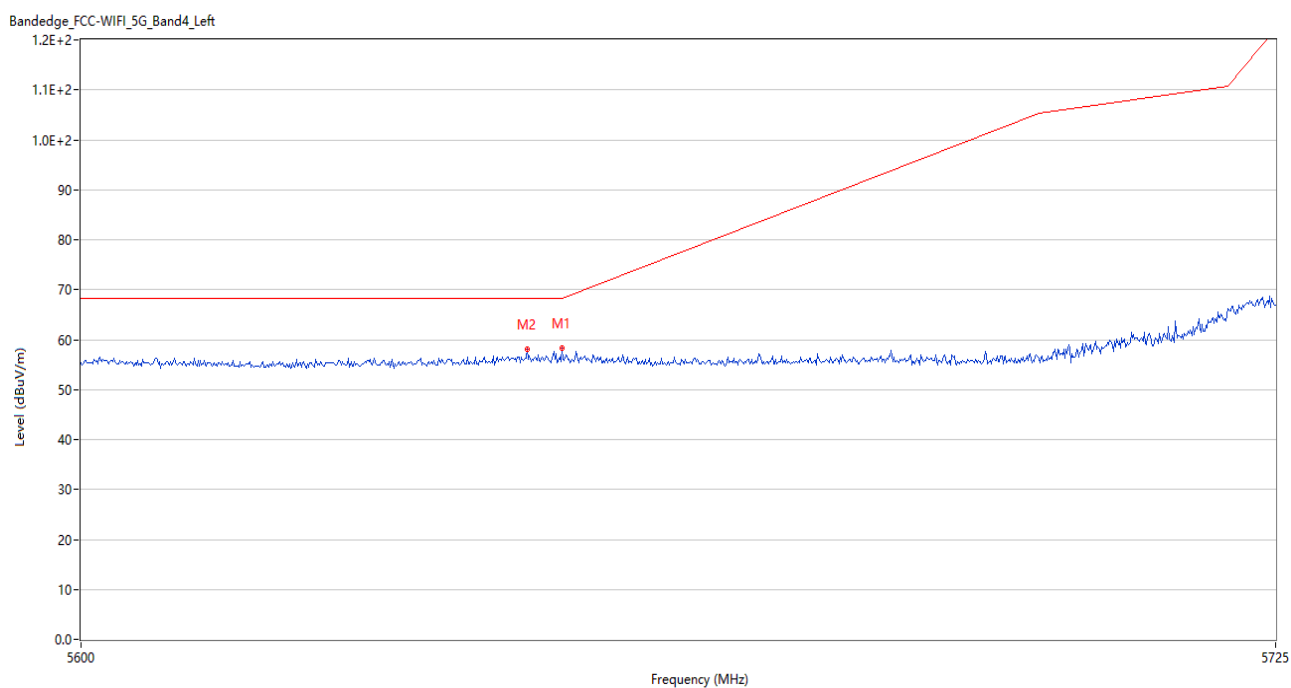
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.79	3.81	68.2	12.41	Peak	225.12	150	Horizontal	Pass
2	5643.750	57.67	3.76	68.2	10.53	Peak	185.00	150	Horizontal	Pass

U-NII-3 11a CH165



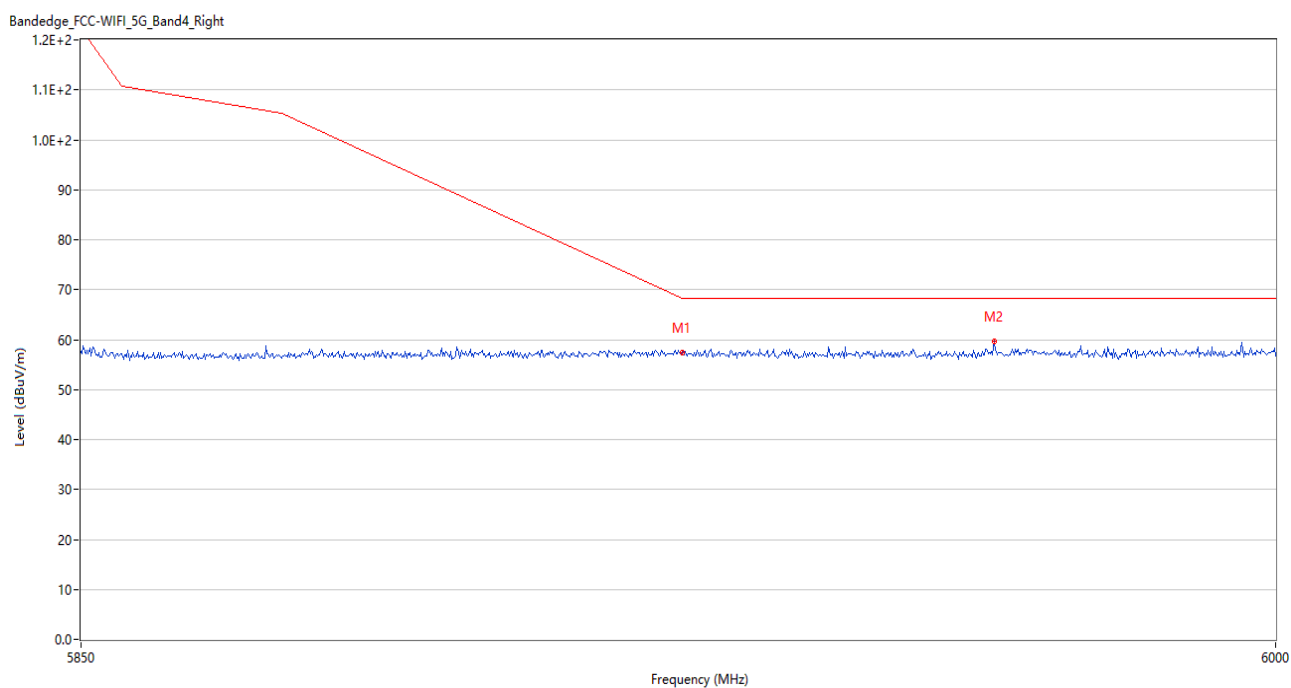
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	56.61	6.44	68.2	11.59	Peak	359.94	150	Vertical	Pass
2	5986.650	59.88	6.26	68.2	8.32	Peak	360.00	150	Vertical	Pass

U-NII-3 11ac20 CH149



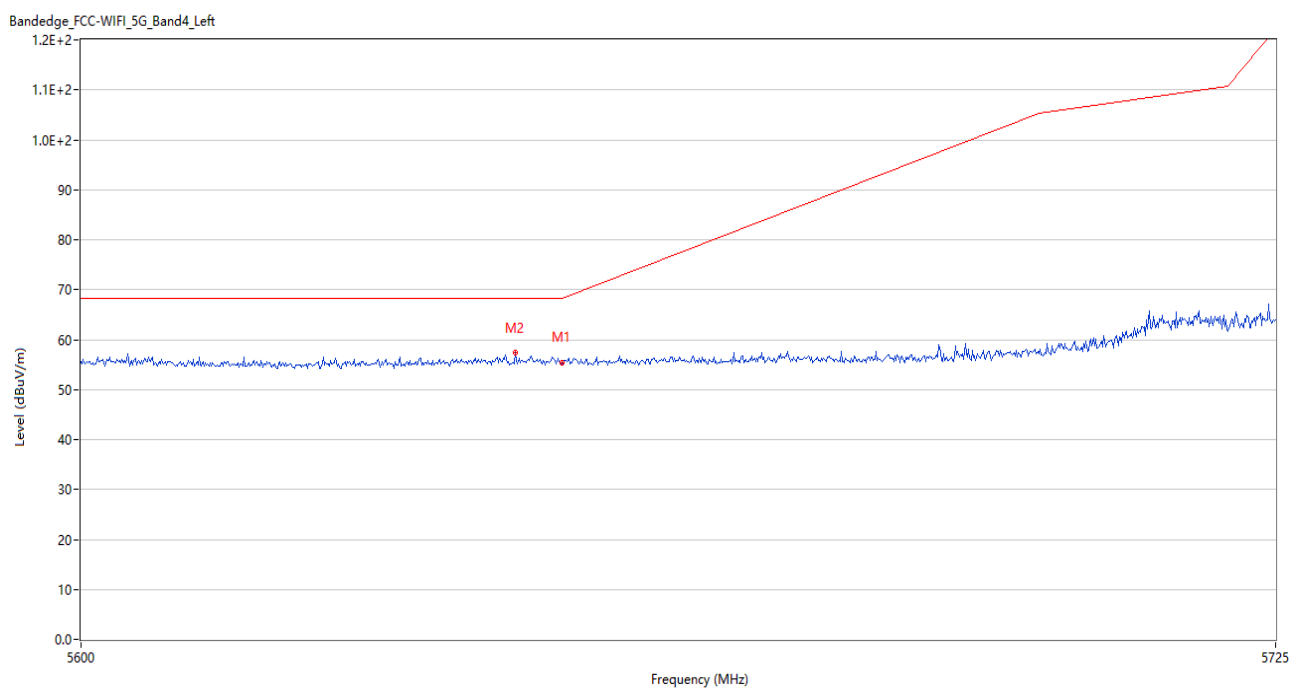
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.22	3.81	68.2	9.98	Peak	224.02	150	Vertical	Pass
2	5646.375	58.16	3.78	68.2	10.04	Peak	243.00	150	Vertical	Pass

U-NII-3 11ac20 CH165



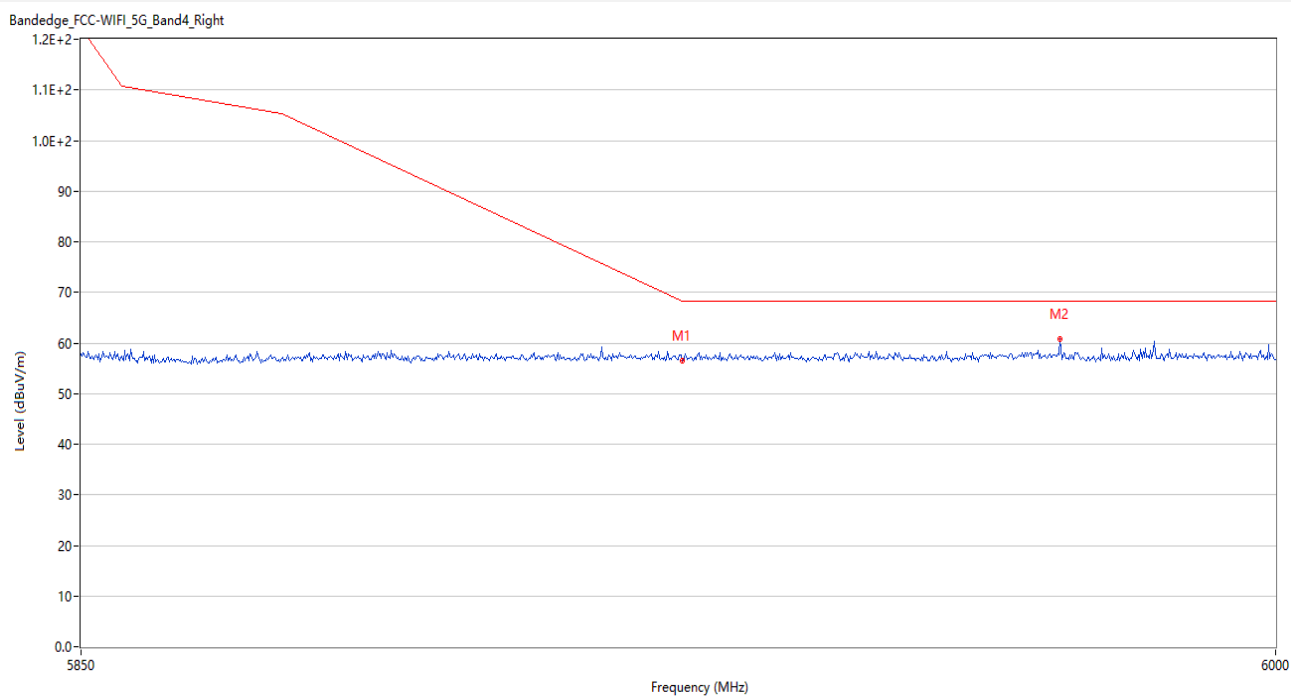
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.48	6.44	68.2	10.72	Peak	21.09	150	Horizontal	Pass
2	5964.300	59.74	6.21	68.2	8.46	Peak	360.00	150	Horizontal	Pass

U-NII-3 11ac40 CH151



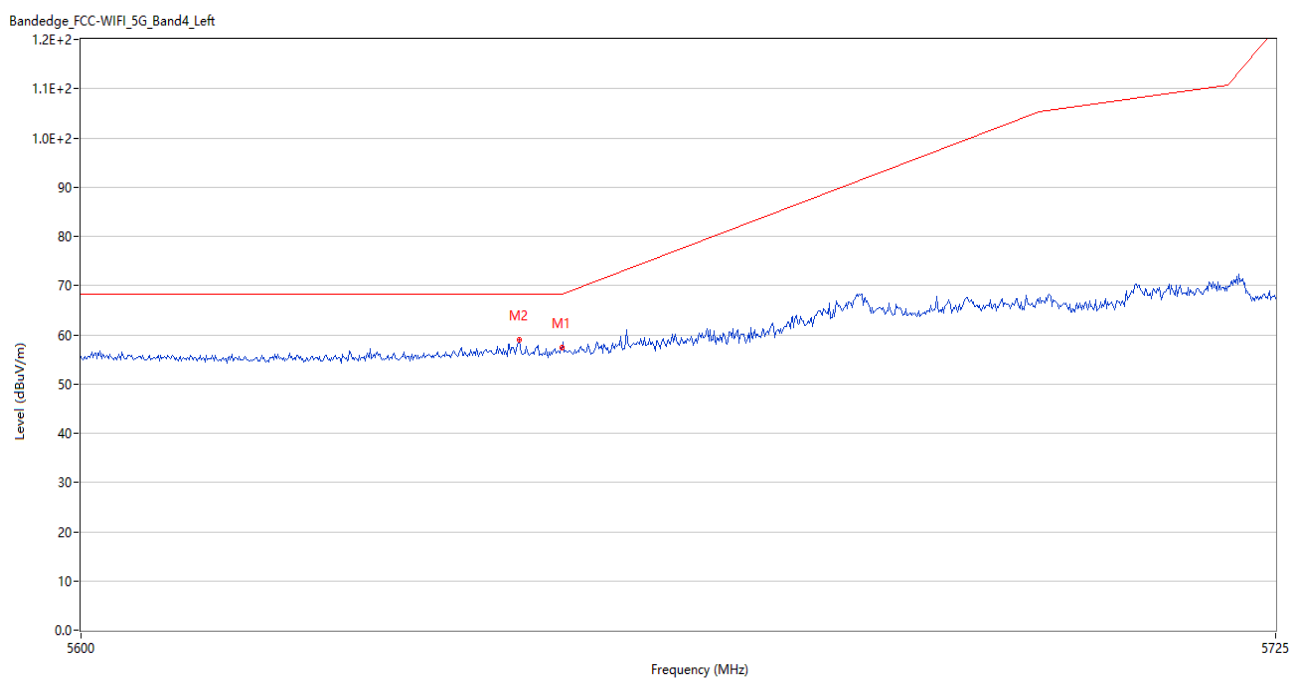
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.45	3.81	68.2	12.75	Peak	75.28	150	Vertical	Pass
2	5645.125	57.34	3.77	68.2	10.86	Peak	29.00	150	Vertical	Pass

U-NII-3 11ac40 CH159



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	56.40	6.44	68.2	11.80	Peak	143.98	150	Vertical	Pass
2	5972.700	60.77	6.26	68.2	7.43	Peak	23.00	150	Vertical	Pass

U-NII-3 11ac80 CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.29	3.81	68.2	10.91	Peak	224.02	150	Vertical	Pass
2	5645.500	58.88	3.77	68.2	9.32	Peak	227.00	150	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2510057-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2510057-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2510057-AI.PDF”.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.
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5. This report shall not be partially reproduced without the written permission of the Testing Center.
6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--