



TEST REPORT

Applicant: Cavli Inc.
Address: 99 South Almaden Blvd., Suite 600, San Jose, CA, USA
Equipment Type: LTE MODEM
Model Name: CQS290(refer to section 2.3)
Brand Name: Cavli Wireless
FCC ID: 2BB64CQS290
Test Standard: 47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date: Dec. 04, 2024
Test Date : Dec. 20, 2024 - Jan. 09, 2025
Date of Issue: Jun. 06, 2025

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

Prepared by: Hai Su

Reviewed by: Zhang Yanqing

Approved by: Chen Zidong

(Technical Director)

Hai Su

Zhang Yanqing

Chen Zidong



Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 24, 2025</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Jun. 06, 2025</u>	<u>Delete the LTE TDD Band40 in Section 2.4</u> <u>Change the Applicant and Manufacturer from Cavli Inc to Cavli Inc.</u> <u>The original report is invalid.</u>

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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, China

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, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Cavli Inc.
Address	99 South Almaden Blvd., Suite 600, San Jose, CA, USA

2.2 Manufacturer Information

Manufacturer	Cavli Inc.
Address	99 South Almaden Blvd., Suite 600, San Jose, CA, USA

2.3 General Description for Equipment under Test (EUT)

EUT Name	LTE MODEM		
Model Name Under Test	CQS290		
Series Model Name	CQS290-WW-108GNAN, CQS290-WW-108GNAH, CQS290-WW-216GNAN, CQS290-WW-216GNAH, CQS290-WW-232GNAN, CQS290-WW-232GNAH, CQS290-WW-332GNAN, CQS290-WW-332GNAH, CQS290-WW-364GNAN, CQS290-WW-364GNAH, CQS290-WW-432GNAN, CQS290-WW-432GNAH, CQS290-WW-464GNAN, CQS290-WW-464GNAH.		
Description of Model name differentiation	Variants	GNSS	eSim
	CQS290-WW-108GNAN	Yes	No
	CQS290-WW-108GNAH	Yes	Yes
	CQS290-WW-216GNAN	Yes	No
	CQS290-WW-216GNAH	Yes	Yes
	CQS290-WW-232GNAN	Yes	No
	CQS290-WW-232GNAH	Yes	Yes
	CQS290-WW-332GNAN	Yes	No
	CQS290-WW-332GNAH	Yes	Yes
	CQS290-WW-364GNAN	Yes	No
	CQS290-WW-364GNAH	Yes	Yes
	CQS290-WW-432GNAN	Yes	No
	CQS290-WW-432GNAH	Yes	Yes
	CQS290-WW-464GNAN	Yes	No
	CQS290-WW-464GNAH	Yes	Yes
(this information provided by the customer)			
Sample Number	SC-SH24B0040-S01(conducted) SC-SH24B0040-S02(radiated)		
Hardware Version	v2.2		
Software Version	N/A		
Dimensions (Approx.)	L:40.5mm*W:40.5mm*H:2.7mm		
Weight (Approx.)	N/A		

2.4 Technical Information

Network and Wireless connectivity	4G Network LTE FDD Band 2/4/5/7/12/13/25/26/66 LTE TDD 38/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b,802.11g,802.11n(HT20/40) 5G WIFI 802.11a,802.11n(HT20/40),802.11ac(VHT20/40/80) GPS, BDS, GLONASS, Galileo
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-2A: 5250 MHz to 5350 MHz, U-NII-2C: 5470 MHz to 5725 MHz, U-NII-3: 5725 MHz to 5850 MHz
Modulation technology	OFDM
Modulation Type	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: 11.55 dBm U-NII-2A: 10.12 dBm U-NII-2C: 9.75 dBm U-NII-3: 7.30 dBm
Antenna System	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: 5.0 dBi U-NII-2A: 5250 MHz to 5350 MHz: 5.0 dBi U-NII-2C: 5470 MHz to 5725 MHz: 5.0 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.0 dBi
About the Product	The equipment is LTE MODEM, intended for used with information technology equipment.

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	155	5775
52	5260	102	5510		
56	5280	110	5550		
60	5300	151	5755		
64	5320	159	5795		
100	5500				
104	5520				
108	5540				
112	5560				
116	5580				
136	5680				
140	5700				
149	5745				
153	5765				
157	5785				
161	5805				
165	5825				

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

For 802.11a/n(HT20)/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 (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
102	Low	5510	151	Low	5755
118	Mid	5590	159	High	5795
134	High	5670			

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	KDB Publication 789033 D02v02r01☆	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	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	N/A	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	N/A	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	N/A	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	N/A	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	N/A	ANNEX A.4	Pass
6	Conducted Emission	15.207	N/A	ANNEX A.5	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	N/A	ANNEX A.6	Pass

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

Note ²: Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	51% to 59%	
Atmospheric Pressure	101 kPa	
Temperature	NT (Normal Temperature)	+22.5°C to +23.9°C
Working Voltage of the EUT	NV (Normal Voltage)	4.0 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420147	2024.02.22	2025.02.21
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240977	2024.02.22	2025.02.21
Signal Generator	Anritsu	MG3710E	6262063515	2024.02.22	2025.02.21
Wideband Radio Communication Tester	R&S	CMW500	168792	2024.02.22	2025.02.21
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	2024.02.19	2025.02.18
LISN	SCHWARZBECK	NSLK 8127	8127-940	2024.02.25	2025.02.24
10dB Limiter	SCHWARZBECK	VTSD 9561-F	9561-F N00409	2024.02.19	2025.02.18
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 %

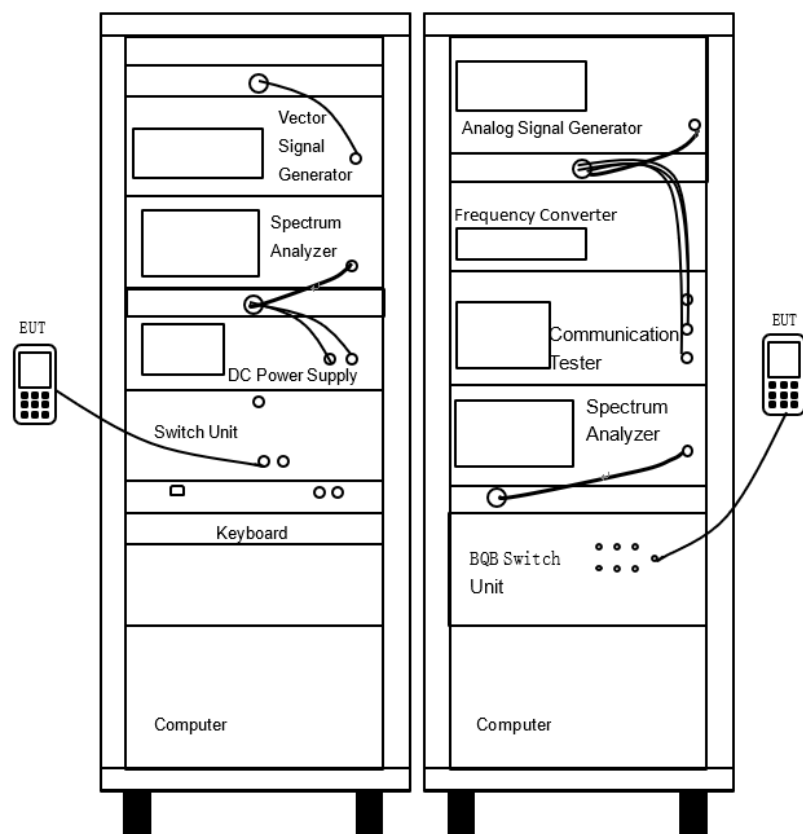
4.6 Description of Test Setup

4.6.1 For Antenna Port Test

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

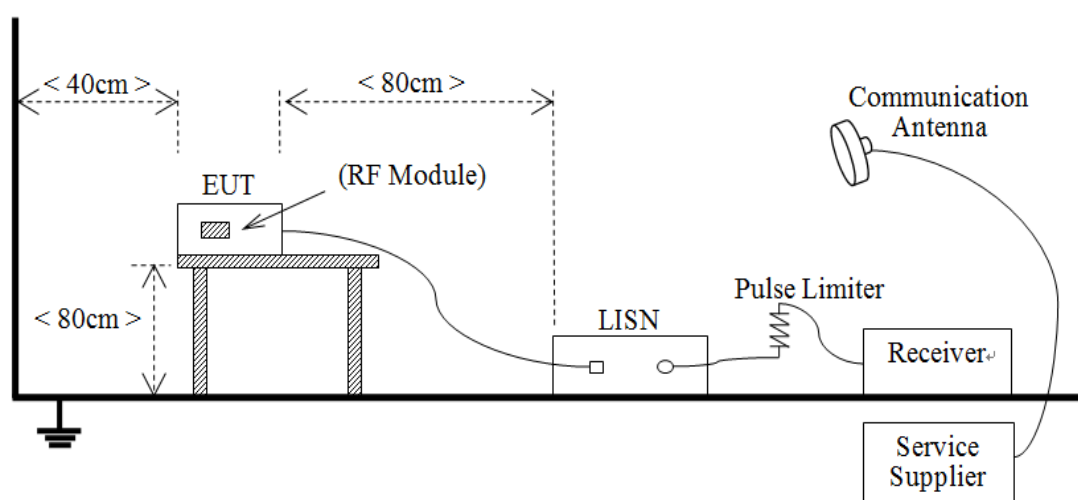
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:

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



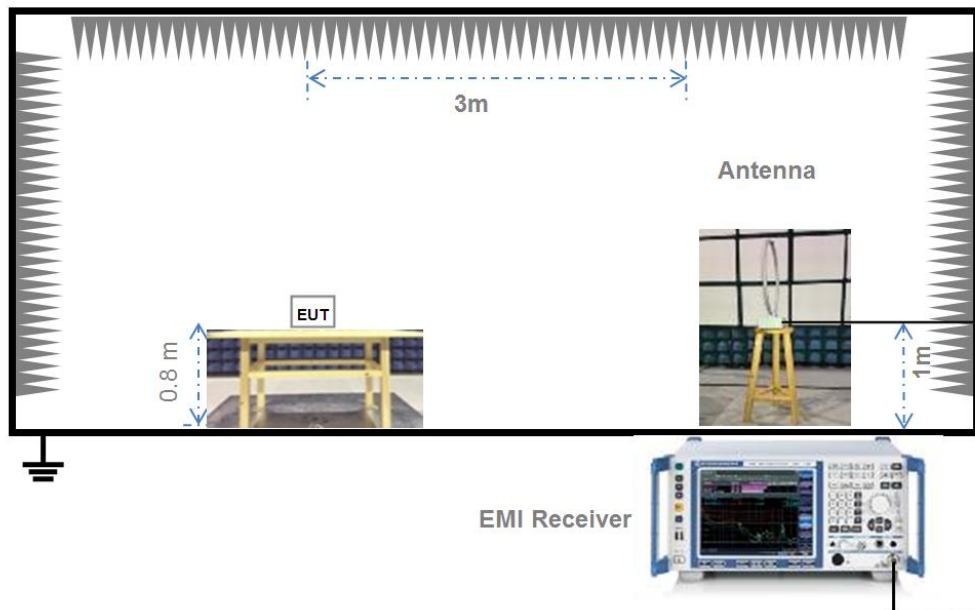
(Diagram 1)

4.6.2 For AC Power Supply Port Test



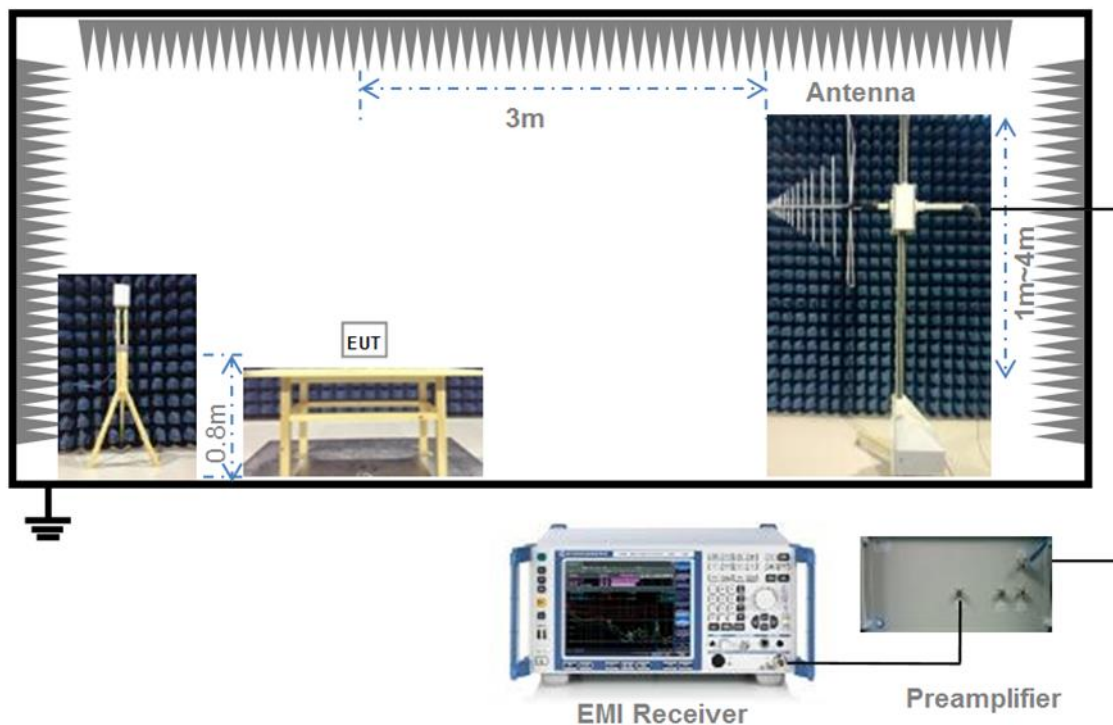
(Diagram 2)

4.6.3 For Radiated Test (Below 30 MHz)



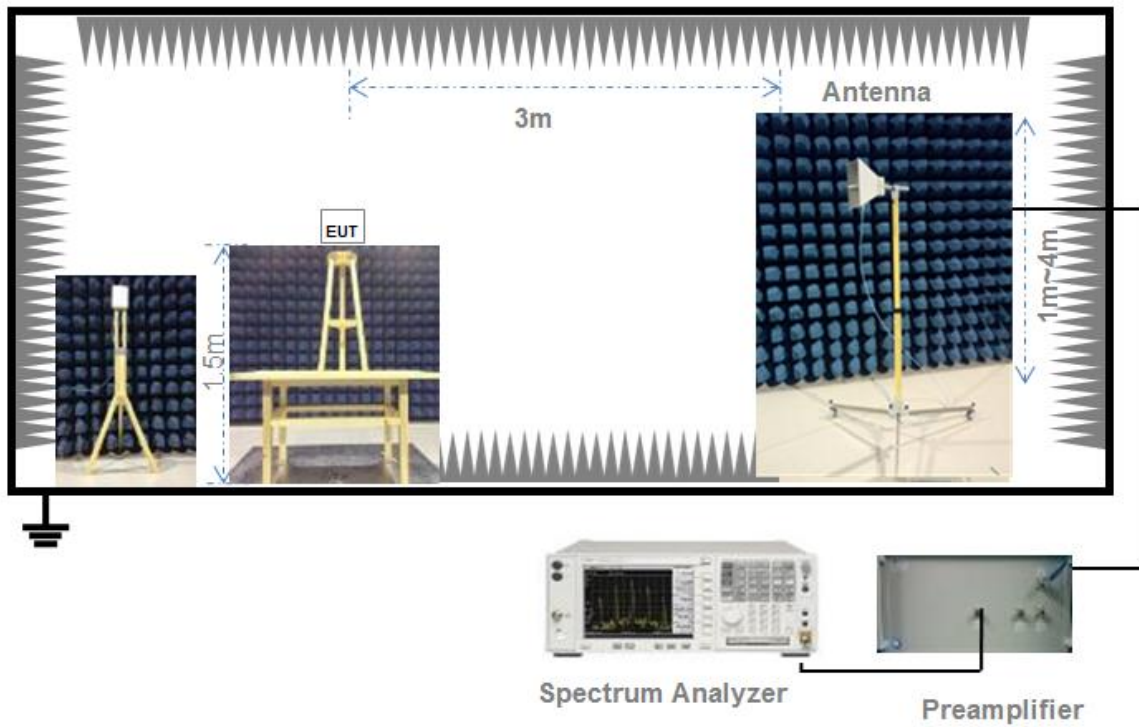
(Diagram 3)

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.	

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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

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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)

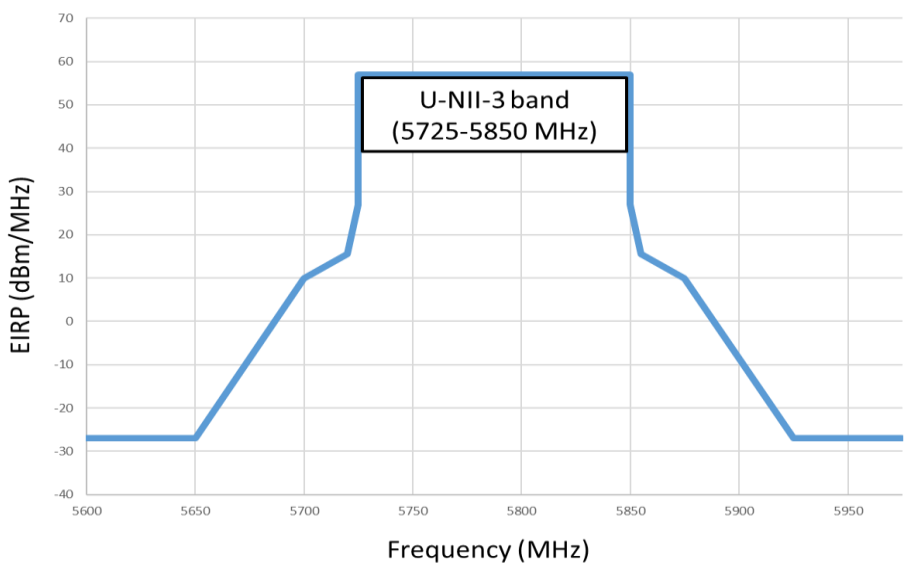
5.5.1 Limit

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	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	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: 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	2.065	2.100	98.33%
11n (HT20)	1.925	1.958	98.31%
11ac (VHT20)	1.933	1.971	98.07%
11n (HT40)	0.948	0.988	95.96%
11ac (VHT40)	0.952	0.991	96.13%
11ac (VHT80)	0.463	0.500	92.64%

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	11.09	12.86	250	Pass
11a	CH44	11.55	14.30	250	Pass
11a	CH48	10.93	12.40	250	Pass
11n (HT20)	CH36	10.97	12.51	250	Pass
11n (HT20)	CH44	11.41	13.85	250	Pass
11n (HT20)	CH48	10.84	12.14	250	Pass
11n (HT40)	CH38	9.08	8.09	250	Pass
11n (HT40)	CH46	10.05	10.11	250	Pass
11ac (VHT20)	CH36	11.01	12.63	250	Pass
11ac (VHT20)	CH44	11.41	13.85	250	Pass
11ac (VHT20)	CH48	10.87	12.23	250	Pass
11ac (VHT40)	CH38	9.04	8.02	250	Pass
11ac (VHT40)	CH46	10.03	10.07	250	Pass
11ac (VHT80)	CH42	9.14	8.21	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	9.22	8.36	250	Pass
11a	CH60	8.95	7.86	250	Pass
11a	CH64	9.84	9.64	250	Pass
11n (HT20)	CH52	8.98	7.91	250	Pass
11n (HT20)	CH60	8.79	7.57	250	Pass
11n (HT20)	CH64	9.62	9.17	250	Pass
11n (HT40)	CH54	10.12	10.28	250	Pass
11n (HT40)	CH62	5.67	3.69	250	Pass
11ac (VHT20)	CH52	9.06	8.06	250	Pass
11ac (VHT20)	CH60	8.78	7.56	250	Pass
11ac (VHT20)	CH64	9.71	9.36	250	Pass
11ac (VHT40)	CH54	10.12	7.71	250	Pass
11ac (VHT40)	CH62	5.62	9.68	250	Pass
11ac (VHT80)	CH58	4.06	2.55	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	8.79	7.57	250	Pass
11a	CH116	8.30	6.77	250	Pass
11a	CH140	5.72	3.74	250	Pass
11n (HT20)	CH100	8.49	7.07	250	Pass
11n (HT20)	CH116	8.20	6.61	250	Pass
11n (HT20)	CH140	5.62	3.65	250	Pass
11n (HT40)	CH102	5.07	3.21	250	Pass
11n (HT40)	CH118	8.92	7.80	250	Pass
11n (HT40)	CH134	7.74	5.94	250	Pass
11ac (VHT20)	CH100	8.49	7.07	250	Pass
11ac (VHT20)	CH116	8.23	6.66	250	Pass
11ac (VHT20)	CH140	5.63	3.66	250	Pass
11ac (VHT40)	CH102	5.04	7.86	250	Pass
11ac (VHT40)	CH118	8.84	9.64	250	Pass
11ac (VHT40)	CH134	7.70	5.89	250	Pass
11ac (VHT80)	CH106	9.75	9.45	250	Pass
11ac (VHT80)	CH122	8.23	6.66	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	6.62	4.60	1000	Pass
11a	CH157	5.68	3.70	1000	Pass
11a	CH165	4.66	2.93	1000	Pass
11n (HT20)	CH149	6.57	4.54	1000	Pass
11n (HT20)	CH157	5.54	3.58	1000	Pass
11n (HT20)	CH165	4.56	2.86	1000	Pass
11n (HT40)	CH151	7.27	5.33	1000	Pass
11n (HT40)	CH159	6.14	4.11	1000	Pass
11ac (VHT20)	CH149	6.58	4.55	1000	Pass
11ac (VHT20)	CH157	5.51	3.56	1000	Pass
11ac (VHT20)	CH165	4.55	2.85	1000	Pass
11ac (VHT40)	CH151	7.30	5.37	1000	Pass
11ac (VHT40)	CH159	6.11	4.08	1000	Pass
11ac (VHT80)	CH155	6.36	4.33	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SH24B0903-604 Data Part 1.pdf".

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	28.46	16.87
11a	CH44	31.75	17.64
11a	CH48	32.55	18.78
11n (HT20)	CH36	26.38	17.93
11n (HT20)	CH44	29.74	18.31
11n (HT20)	CH48	32.53	19.12
11n (HT40)	CH38	45.27	36.36
11n (HT40)	CH46	62.23	36.70
11ac (VHT20)	CH36	26.38	17.96
11ac (VHT20)	CH44	29.41	18.33
11ac (VHT20)	CH48	33.49	19.14
11ac (VHT40)	CH38	44.96	36.34
11ac (VHT40)	CH46	60.75	36.69
11ac (VHT80)	CH42	125.80	78.64

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	26.89	16.83
11a	CH60	32.55	17.79
11a	CH64	32.53	17.86
11n (HT20)	CH52	26.35	17.95
11n (HT20)	CH60	32.30	18.48
11n (HT20)	CH64	32.32	18.54
11n (HT40)	CH54	65.97	37.03
11n (HT40)	CH62	42.38	36.30
11ac (VHT20)	CH52	26.63	17.96
11ac (VHT20)	CH60	32.23	18.51
11ac (VHT20)	CH64	32.29	18.57
11ac (VHT40)	CH54	64.99	37.04
11ac (VHT40)	CH62	42.96	36.31
11ac (VHT80)	CH58	83.40	75.76

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	24.55	16.89
11a	CH116	21.62	16.76
11a	CH140	21.01	16.56
11n (HT20)	CH100	25.12	17.95
11n (HT20)	CH116	21.95	17.86
11n (HT20)	CH140	21.07	17.73
11n (HT40)	CH102	41.90	36.32
11n (HT40)	CH118	62.24	36.69
11n (HT40)	CH134	42.13	36.19
11ac (VHT20)	CH100	22.33	17.94
11ac (VHT20)	CH116	21.97	17.85
11ac (VHT20)	CH140	21.00	17.73
11ac (VHT40)	CH102	41.99	36.32
11ac (VHT40)	CH118	63.65	36.66
11ac (VHT40)	CH134	41.89	36.20
11ac (VHT80)	CH106	130.20	76.63
11ac (VHT80)	CH122	121.50	76.53

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	20.99	16.59
11a	CH157	21.00	16.64
11a	CH165	21.01	16.62
11n (HT20)	CH149	21.38	17.76
11n (HT20)	CH157	21.18	17.79
11n (HT20)	CH165	21.13	17.80
11n (HT40)	CH151	58.42	36.37
11n (HT40)	CH159	55.42	36.41
11ac (VHT20)	CH149	21.01	17.77
11ac (VHT20)	CH157	21.30	17.77
11ac (VHT20)	CH165	21.09	17.78
11ac (VHT40)	CH151	57.40	36.34
11ac (VHT40)	CH159	54.48	36.41
11ac (VHT80)	CH155	120.70	76.64

A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SH24B0903-604 Data Part 2.pdf".

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.90	500.00	Pass
11a	CH157	15.30	500.00	Pass
11a	CH165	15.80	500.00	Pass
11n (HT20)	CH149	17.00	500.00	Pass
11n (HT20)	CH157	15.70	500.00	Pass
11n (HT20)	CH165	15.70	500.00	Pass
11n (HT40)	CH151	35.70	500.00	Pass
11n (HT40)	CH159	35.30	500.00	Pass
11ac (VHT20)	CH149	16.80	500.00	Pass
11ac (VHT20)	CH157	15.40	500.00	Pass
11ac (VHT20)	CH165	15.70	500.00	Pass
11ac (VHT40)	CH151	35.30	500.00	Pass
11ac (VHT40)	CH159	35.30	500.00	Pass
11ac (VHT80)	CH155	75.30	500.00	Pass

A.4 Power Spectral Density

Note ¹: Test plots please refer to the document “Annex No.: BL-SH24B0903-604 Data Part 3.pdf”.

Note ²: The RBW used in U-NII-3 is 1 MHz, and the PSD factor is: $10 \cdot \log(500 \text{ kHz/RBW}) = -3 \text{ dBm}$.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	0.08	11.00	Pass
11a	CH44	0.63	11.00	Pass
11a	CH48	0.14	11.00	Pass
11n (HT20)	CH36	-0.30	11.00	Pass
11n (HT20)	CH44	0.24	11.00	Pass
11n (HT20)	CH48	-0.34	11.00	Pass
11n (HT40)	CH38	-5.11	11.00	Pass
11n (HT40)	CH46	-3.98	11.00	Pass
11ac (VHT20)	CH36	-0.25	11.00	Pass
11ac (VHT20)	CH44	0.16	11.00	Pass
11ac (VHT20)	CH48	-0.32	11.00	Pass
11ac (VHT40)	CH38	-5.21	11.00	Pass
11ac (VHT40)	CH46	-4.06	11.00	Pass
11ac (VHT80)	CH42	-8.02	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	-1.58	11.00	Pass
11a	CH60	-1.86	11.00	Pass
11a	CH64	-0.96	11.00	Pass
11n (HT20)	CH52	-2.06	11.00	Pass
11n (HT20)	CH60	-2.44	11.00	Pass
11n (HT20)	CH64	-1.38	11.00	Pass
11n (HT40)	CH54	-3.67	11.00	Pass
11n (HT40)	CH62	-8.40	11.00	Pass
11ac (VHT20)	CH52	-2.02	11.00	Pass
11ac (VHT20)	CH60	-2.29	11.00	Pass
11ac (VHT20)	CH64	-1.35	11.00	Pass
11ac (VHT40)	CH54	-3.69	11.00	Pass
11ac (VHT40)	CH62	-8.42	11.00	Pass
11ac (VHT80)	CH58	-12.81	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	-2.24	11.00	Pass
11a	CH116	-2.39	11.00	Pass
11a	CH140	-5.23	11.00	Pass
11n (HT20)	CH100	-2.78	11.00	Pass
11n (HT20)	CH116	-2.91	11.00	Pass
11n (HT20)	CH140	-5.71	11.00	Pass
11n (HT40)	CH102	-9.11	11.00	Pass
11n (HT40)	CH118	-5.47	11.00	Pass
11n (HT40)	CH134	-5.98	11.00	Pass
11ac (VHT20)	CH100	-2.80	11.00	Pass
11ac (VHT20)	CH116	-2.81	11.00	Pass
11ac (VHT20)	CH140	-5.65	11.00	Pass
11ac (VHT40)	CH102	-9.15	11.00	Pass
11ac (VHT40)	CH118	-5.40	11.00	Pass
11ac (VHT40)	CH134	-6.04	11.00	Pass
11ac (VHT80)	CH106	-7.24	11.00	Pass
11ac (VHT80)	CH122	-8.49	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-6.85	30.00	Pass
11a	CH157	-9.54	30.00	Pass
11a	CH165	-10.13	30.00	Pass
11n (HT20)	CH149	-9.49	30.00	Pass
11n (HT20)	CH157	-9.98	30.00	Pass
11n (HT20)	CH165	-10.46	30.00	Pass
11n (HT40)	CH151	-11.41	30.00	Pass
11n (HT40)	CH159	-12.42	30.00	Pass
11ac (VHT20)	CH149	-9.39	30.00	Pass
11ac (VHT20)	CH157	-9.93	30.00	Pass
11ac (VHT20)	CH165	-10.45	30.00	Pass
11ac (VHT40)	CH151	-11.49	30.00	Pass
11ac (VHT40)	CH159	-12.38	30.00	Pass
11ac (VHT80)	CH155	-14.94	30.00	Pass

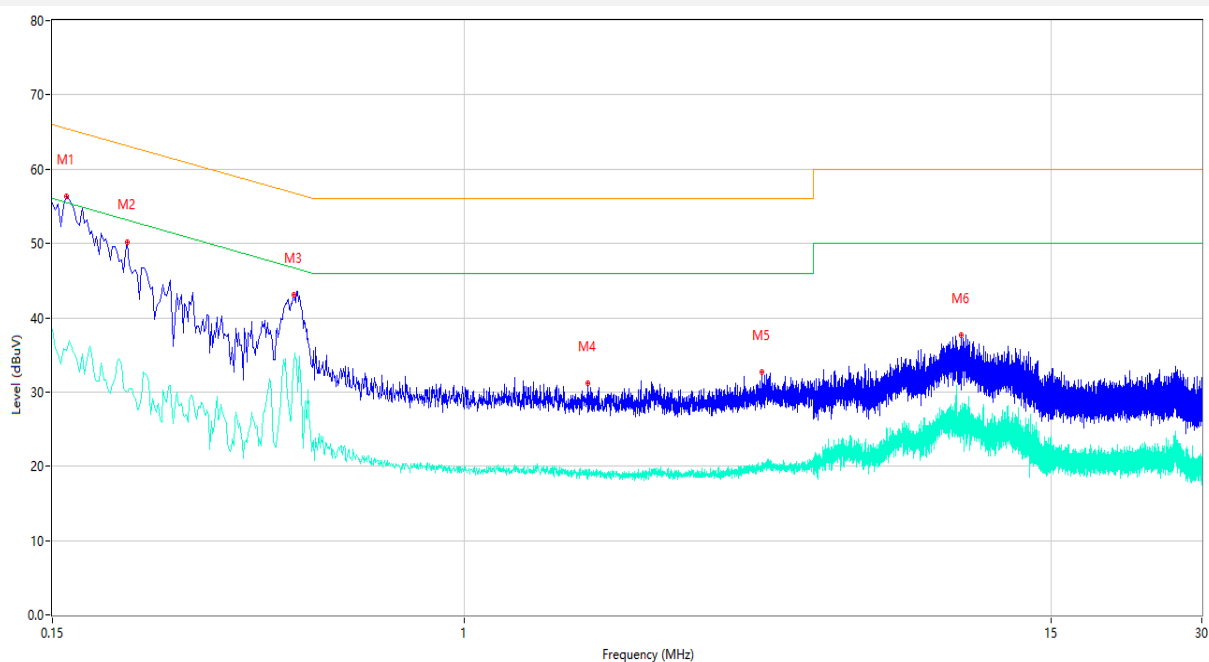
A.5 Conducted Emission

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

Note 2: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

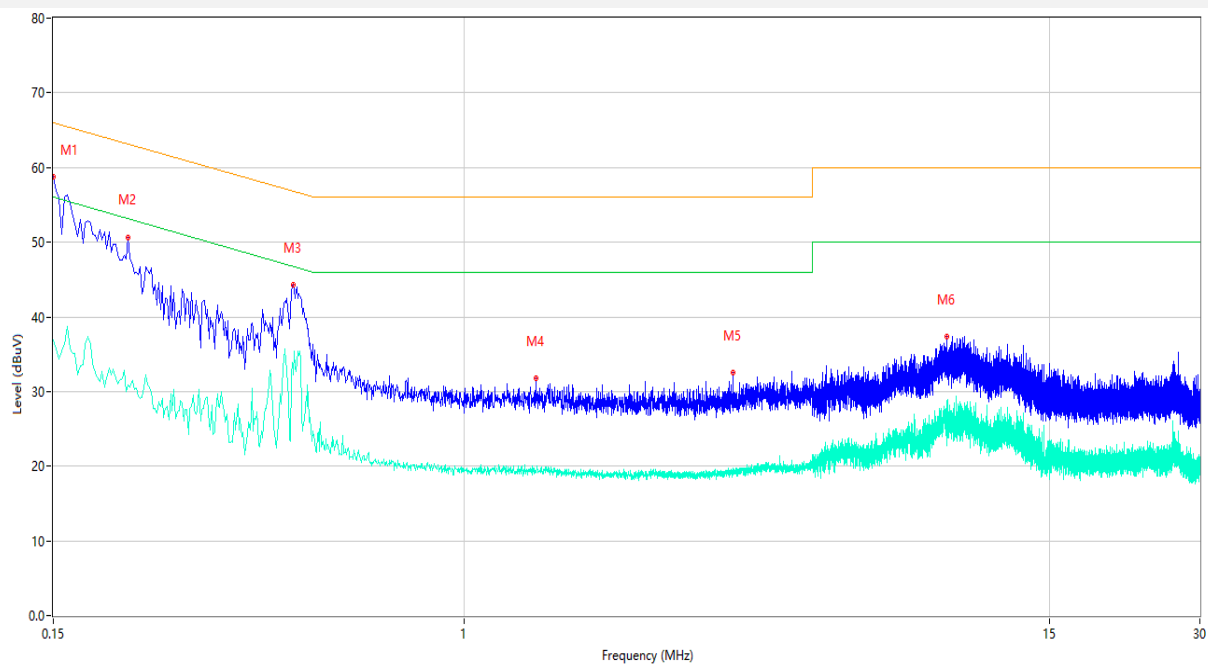
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	56.28	9.75	65.46	9.18	Peak	L	Pass
1**	0.160	35.61	9.75	55.46	19.85	AV	L	Pass
2	0.212	50.14	9.74	63.13	12.99	Peak	L	Pass
2**	0.212	29.99	9.74	53.13	23.14	AV	L	Pass
3	0.456	43.05	9.74	56.77	13.72	Peak	L	Pass
3**	0.456	33.86	9.74	46.77	12.91	AV	L	Pass
4	1.766	31.12	9.69	56.00	24.88	Peak	L	Pass
4**	1.766	19.11	9.69	46.00	26.89	AV	L	Pass
5	3.956	32.69	9.66	56.00	23.31	Peak	L	Pass
5**	3.956	20.45	9.66	46.00	25.55	AV	L	Pass
6	9.908	37.68	9.48	60.00	22.32	Peak	L	Pass
6**	9.908	27.00	9.48	50.00	23.00	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	58.69	9.75	66.00	7.31	Peak	N	Pass
1**	0.150	36.90	9.75	56.00	19.10	AV	N	Pass
2	0.212	50.69	9.74	63.13	12.44	Peak	N	Pass
2**	0.212	30.84	9.74	53.13	22.29	AV	N	Pass
3	0.454	44.23	9.74	56.80	12.57	Peak	N	Pass
3**	0.454	32.22	9.74	46.80	14.58	AV	N	Pass
4	1.394	31.76	9.70	56.00	24.24	Peak	N	Pass
4**	1.394	19.40	9.70	46.00	26.60	AV	N	Pass
5	3.464	32.52	9.66	56.00	23.48	Peak	N	Pass
5**	3.464	19.59	9.66	46.00	26.41	AV	N	Pass
6	9.320	37.40	9.50	60.00	22.60	Peak	N	Pass
6**	9.320	28.25	9.50	50.00	21.75	AV	N	Pass

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

A.6.1 Radiated Spurious Emissions

Test Data

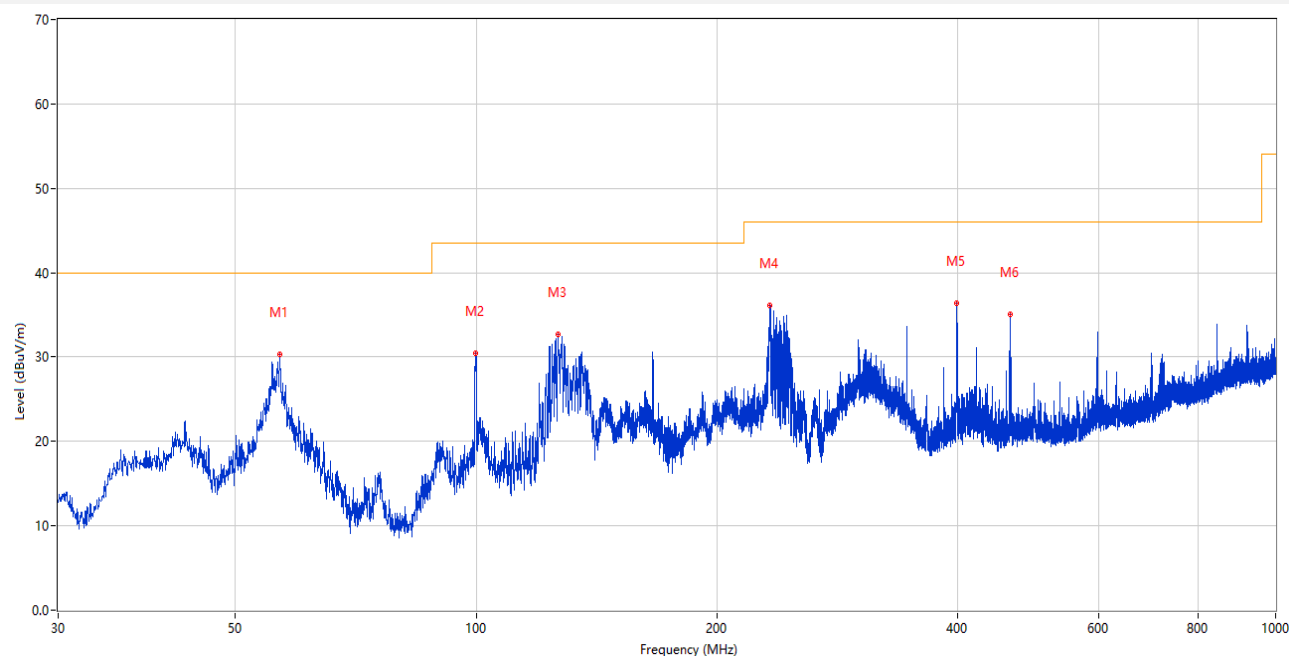
Note 1: The symbol of "--" in the table which means not application.

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.

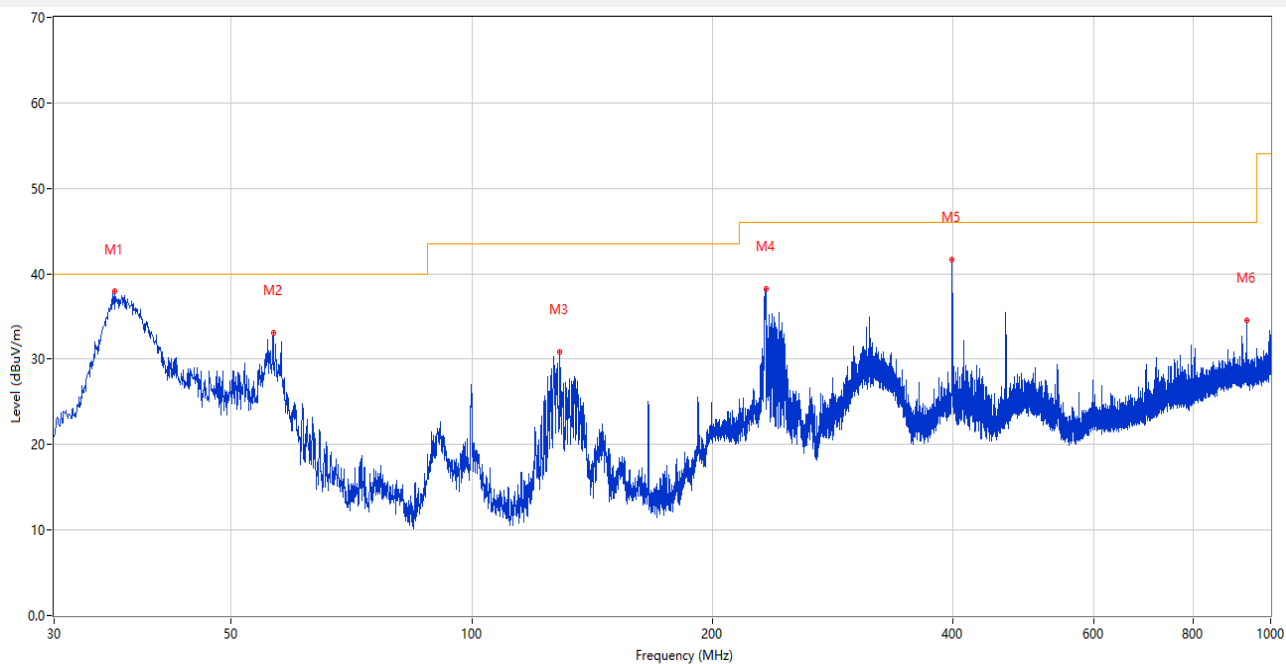
Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

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	56.724	30.36	-25.35	40.0	9.64	Peak	50.00	200	Horizontal	Pass
2	99.888	30.48	-26.12	43.5	13.02	Peak	86.00	200	Horizontal	Pass
3	126.515	32.74	-28.86	43.5	10.76	Peak	218.00	100	Horizontal	Pass
4	233.264	36.15	-24.81	46.0	9.85	Peak	8.00	200	Horizontal	Pass
5	399.230	36.42	-20.44	46.0	9.58	Peak	155.00	200	Horizontal	Pass
6	466.112	35.04	-19.20	46.0	10.96	Peak	174.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

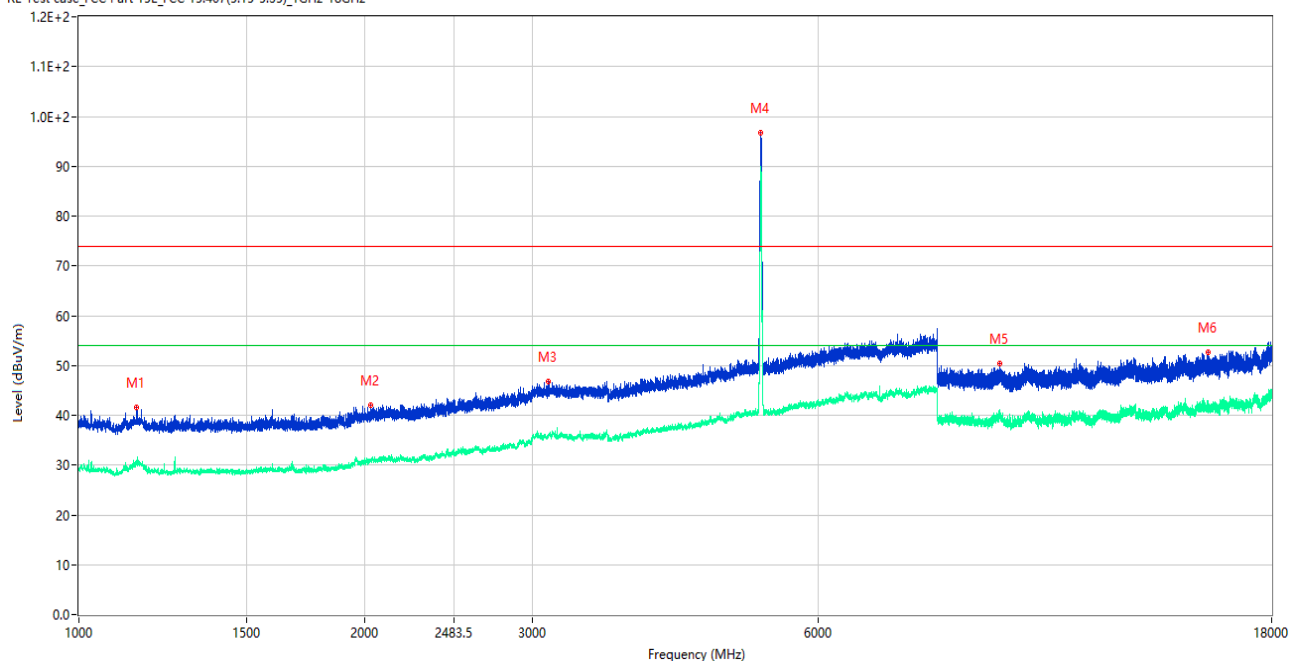


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.675	37.91	-27.51	40.0	2.09	Peak	1.00	100	Vertical	Pass
2	56.432	33.15	-25.29	40.0	6.85	Peak	117.00	200	Vertical	Pass
3	128.891	30.84	-29.00	43.5	12.66	Peak	160.00	200	Vertical	Pass
4	233.312	38.23	-24.81	46.0	7.77	Peak	151.00	100	Vertical	Pass
5	398.842	41.66	-20.44	46.0	4.34	Peak	360.00	100	Vertical	Pass
6	933.215	34.58	-8.89	46.0	11.42	Peak	144.00	100	Vertical	Pass

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

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

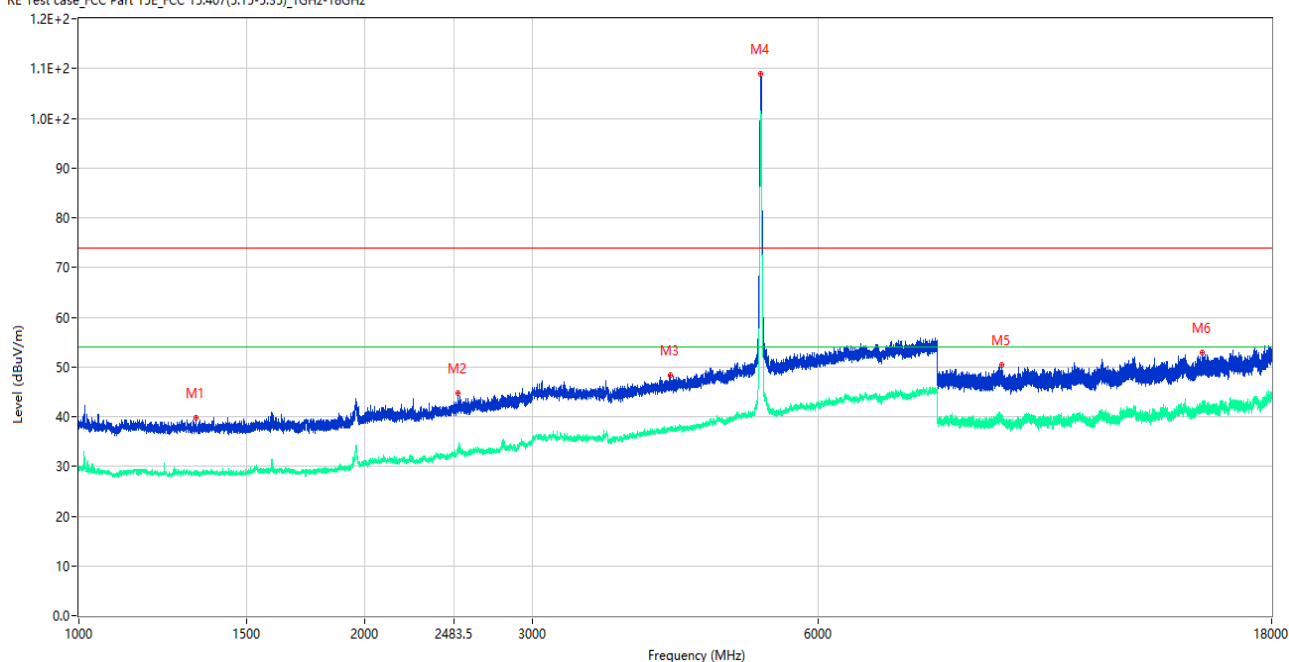
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1149.750	41.56	-14.76	74.0	32.44	Peak	95.00	150	Horizontal	Pass
1**	1149.750	30.16	-14.76	54.0	23.84	AV	95.00	150	Horizontal	Pass
2	2027.250	41.96	-12.63	74.0	32.04	Peak	3.00	150	Horizontal	Pass
2**	2027.250	30.64	-12.63	54.0	23.36	AV	3.00	150	Horizontal	Pass
3	3118.500	46.69	-6.37	74.0	27.31	Peak	39.00	150	Horizontal	Pass
3**	3118.500	36.06	-6.37	54.0	17.94	AV	39.00	150	Horizontal	Pass
4	5222.500	96.80	-0.83	74.0	-22.80	Peak	291.00	150	Horizontal	N/A
4**	5222.500	89.33	-0.83	54.0	-35.33	AV	291.00	150	Horizontal	N/A
5	9306.963	50.42	-1.81	74.0	23.58	Peak	214.00	150	Horizontal	Pass
5**	9306.963	40.39	-1.81	54.0	13.61	AV	214.00	150	Horizontal	Pass
6	15438.000	52.60	1.45	74.0	21.40	Peak	0.00	150	Horizontal	Pass
6**	15438.000	41.42	1.45	54.0	12.58	AV	0.00	150	Horizontal	Pass

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

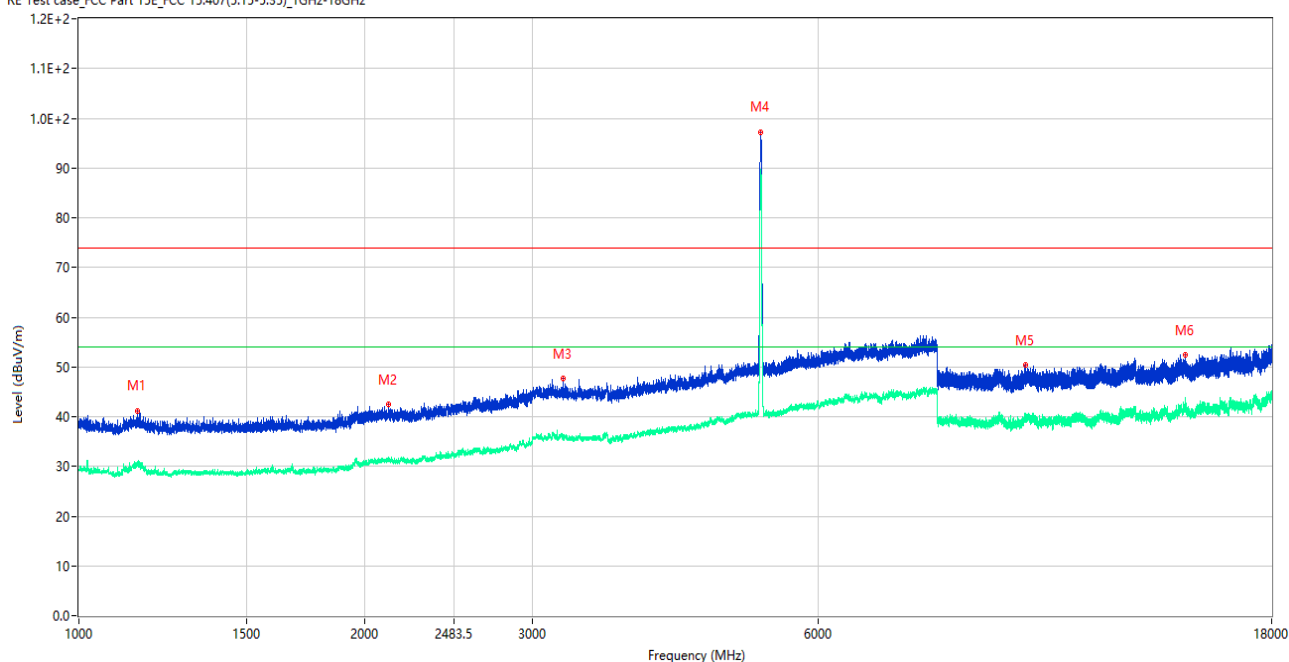
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.250	39.68	-15.00	74.0	34.32	Peak	165.00	150	Vertical	Pass
1**	1327.250	28.63	-15.00	54.0	25.37	AV	165.00	150	Vertical	Pass
2	2506.750	44.78	-10.83	74.0	29.22	Peak	184.00	150	Vertical	Pass
2**	2506.750	33.35	-10.83	54.0	20.65	AV	184.00	150	Vertical	Pass
3	4194.500	48.35	-2.63	74.0	25.65	Peak	11.00	150	Vertical	Pass
3**	4194.500	37.95	-2.63	54.0	16.05	AV	11.00	150	Vertical	Pass
4	5222.000	108.88	-0.83	74.0	-34.88	Peak	356.00	150	Vertical	N/A
4**	5222.000	101.33	-0.83	54.0	-47.33	AV	356.00	150	Vertical	N/A
5	9367.763	50.44	-2.21	74.0	23.56	Peak	332.00	150	Vertical	Pass
5**	9367.763	39.70	-2.21	54.0	14.30	AV	332.00	150	Vertical	Pass
6	15213.300	52.94	1.38	74.0	21.06	Peak	0.00	150	Vertical	Pass
6**	15213.300	42.80	1.38	54.0	11.20	AV	0.00	150	Vertical	Pass

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

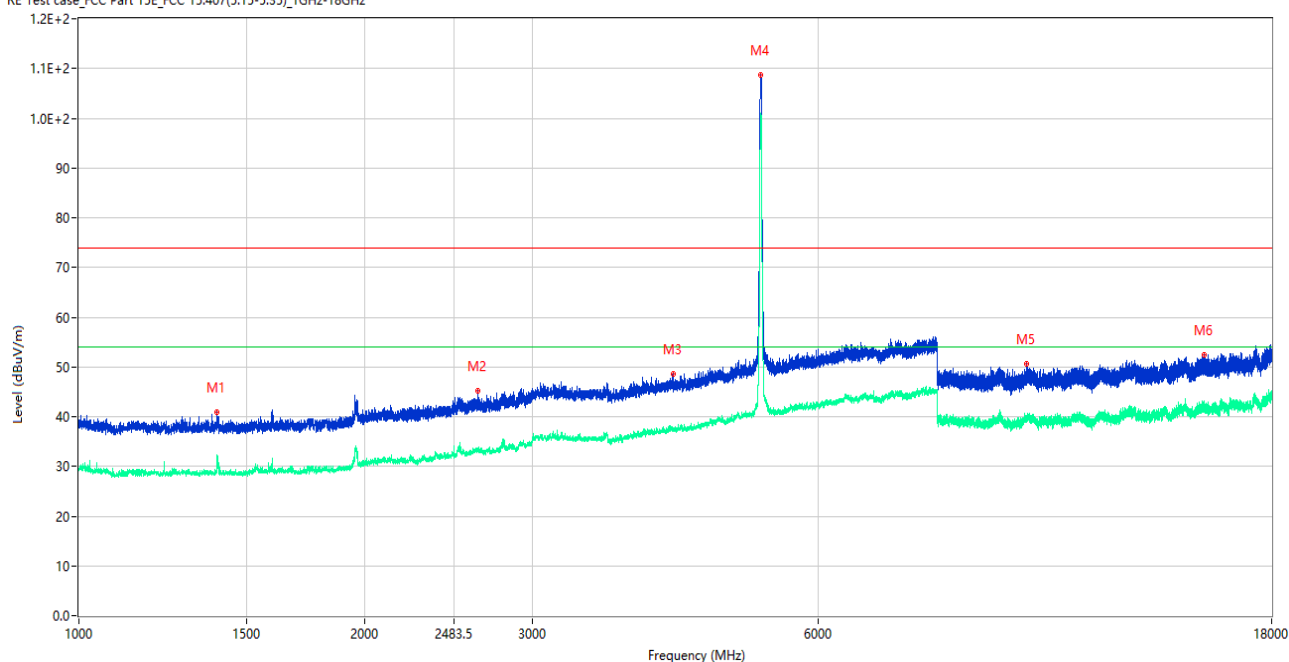
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1151.500	41.05	-14.73	74.0	32.95	Peak	123.00	150	Horizontal	Pass
1**	1151.500	30.40	-14.73	54.0	23.60	AV	123.00	150	Horizontal	Pass
2	2118.250	42.51	-12.29	74.0	31.49	Peak	360.00	150	Horizontal	Pass
2**	2118.250	31.02	-12.29	54.0	22.98	AV	360.00	150	Horizontal	Pass
3	3232.500	47.63	-5.88	74.0	26.37	Peak	100.00	150	Horizontal	Pass
3**	3232.500	35.50	-5.88	54.0	18.50	AV	100.00	150	Horizontal	Pass
4	5218.500	97.27	-0.91	74.0	-23.27	Peak	292.00	150	Horizontal	N/A
4**	5218.500	88.53	-0.91	54.0	-34.53	AV	292.00	150	Horizontal	N/A
5	9919.475	50.45	-0.87	74.0	23.55	Peak	88.00	150	Horizontal	Pass
5**	9919.475	39.60	-0.87	54.0	14.40	AV	88.00	150	Horizontal	Pass
6	14594.588	52.45	1.07	74.0	21.55	Peak	118.00	150	Horizontal	Pass
6**	14594.588	43.53	1.07	54.0	10.47	AV	118.00	150	Horizontal	Pass

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

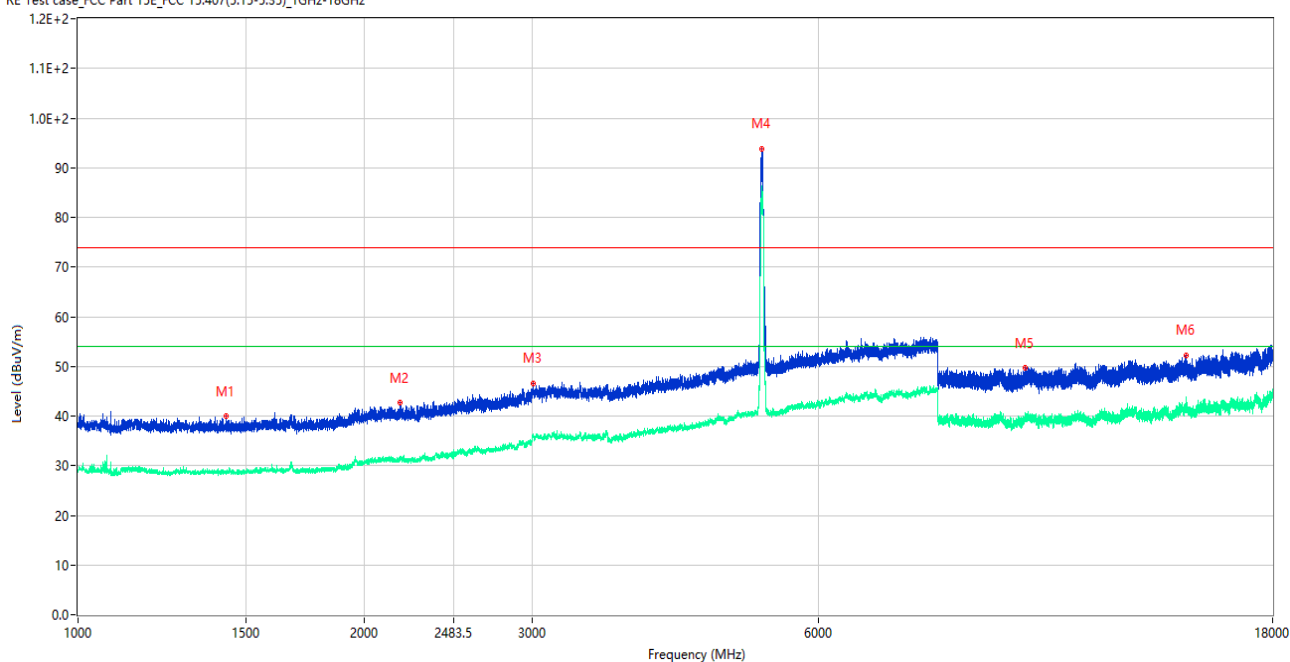
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1396.750	40.86	-15.07	74.0	33.14	Peak	181.00	150	Vertical	Pass
1**	1396.750	30.64	-15.07	54.0	23.36	AV	181.00	150	Vertical	Pass
2	2629.000	45.29	-8.67	74.0	28.71	Peak	135.00	150	Vertical	Pass
2**	2629.000	33.31	-8.67	54.0	20.69	AV	135.00	150	Vertical	Pass
3	4220.500	48.70	-2.97	74.0	25.30	Peak	143.00	150	Vertical	Pass
3**	4220.500	37.34	-2.97	54.0	16.66	AV	143.00	150	Vertical	Pass
4	5221.000	108.76	-0.85	74.0	-34.76	Peak	0.00	150	Vertical	N/A
4**	5221.000	100.52	-0.85	54.0	-46.52	AV	0.00	150	Vertical	N/A
5	9947.737	50.65	-0.81	74.0	23.35	Peak	6.00	150	Vertical	Pass
5**	9947.737	39.76	-0.81	54.0	14.24	AV	6.00	150	Vertical	Pass
6	15268.950	52.40	1.95	74.0	21.60	Peak	258.00	150	Vertical	Pass
6**	15268.950	42.41	1.95	54.0	11.59	AV	258.00	150	Vertical	Pass

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

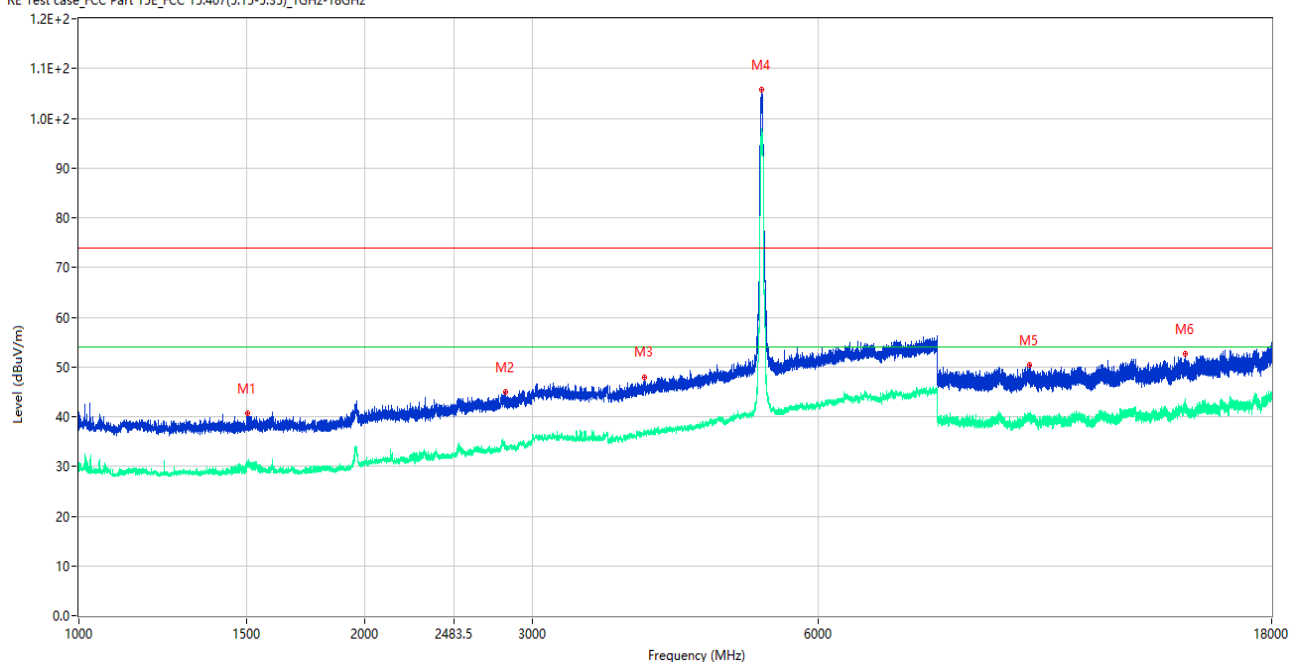
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1432.250	39.96	-15.05	74.0	34.04	Peak	360.00	150	Horizontal	Pass
1**	1432.250	28.65	-15.05	54.0	25.35	AV	360.00	150	Horizontal	Pass
2	2177.000	42.76	-11.69	74.0	31.24	Peak	88.00	150	Horizontal	Pass
2**	2177.000	31.28	-11.69	54.0	22.72	AV	88.00	150	Horizontal	Pass
3	3010.000	46.49	-6.98	74.0	27.51	Peak	0.00	150	Horizontal	Pass
3**	3010.000	35.94	-6.98	54.0	18.06	AV	0.00	150	Horizontal	Pass
4	5232.000	93.87	-0.87	74.0	-19.87	Peak	291.00	150	Horizontal	N/A
4**	5232.000	85.81	-0.87	54.0	-31.81	AV	291.00	150	Horizontal	N/A
5	9885.275	49.78	-1.32	74.0	24.22	Peak	117.00	150	Horizontal	Pass
5**	9885.275	39.79	-1.32	54.0	14.21	AV	117.00	150	Horizontal	Pass
6	14599.838	52.29	0.81	74.0	21.71	Peak	290.00	150	Horizontal	Pass
6**	14599.838	42.25	0.81	54.0	11.75	AV	290.00	150	Horizontal	Pass

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

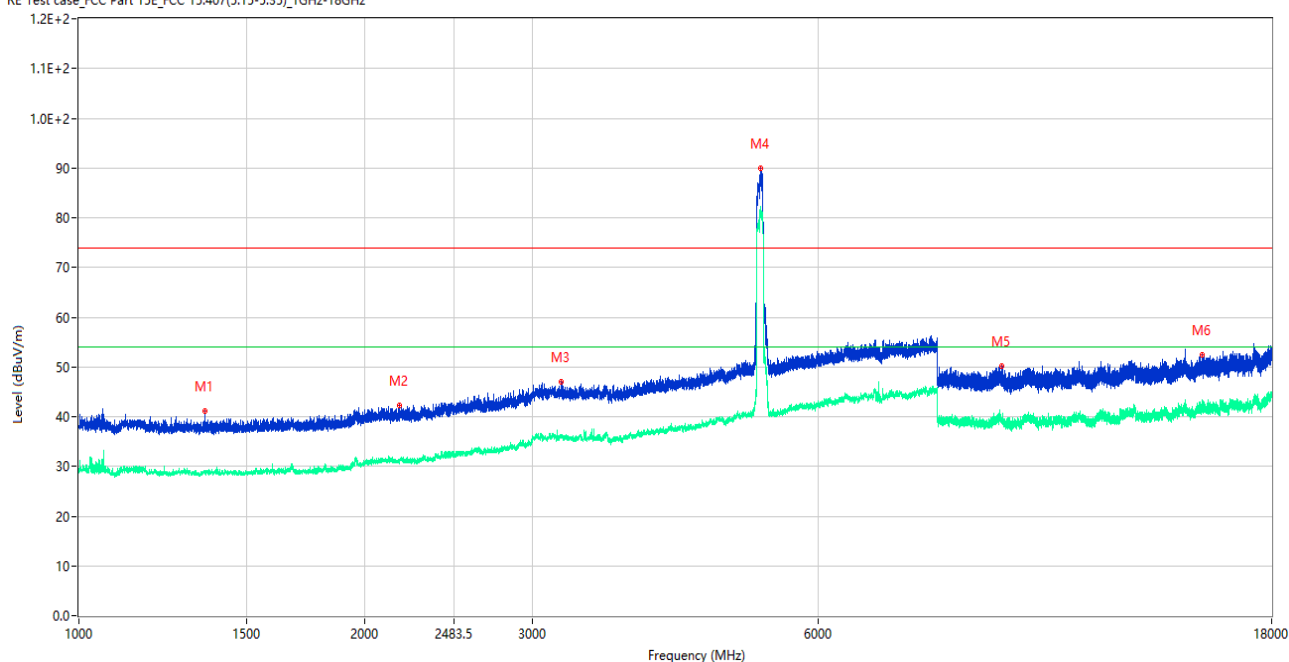
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1506.250	40.60	-15.05	74.0	33.40	Peak	347.00	150	Vertical	Pass
1**	1506.250	29.72	-15.05	54.0	24.28	AV	347.00	150	Vertical	Pass
2	2811.750	44.87	-8.86	74.0	29.13	Peak	323.00	150	Vertical	Pass
2**	2811.750	33.62	-8.86	54.0	20.38	AV	323.00	150	Vertical	Pass
3	3940.500	47.95	-3.36	74.0	26.05	Peak	179.00	150	Vertical	Pass
3**	3940.500	36.67	-3.36	54.0	17.33	AV	179.00	150	Vertical	Pass
4	5233.000	105.78	-0.86	74.0	-31.78	Peak	345.00	150	Vertical	N/A
4**	5233.000	97.82	-0.86	54.0	-43.82	AV	345.00	150	Vertical	N/A
5	10004.737	50.43	-1.06	74.0	23.57	Peak	284.00	150	Vertical	Pass
5**	10004.737	39.72	-1.06	54.0	14.28	AV	284.00	150	Vertical	Pass
6	14591.963	52.67	1.43	74.0	21.33	Peak	359.00	150	Vertical	Pass
6**	14591.963	43.00	1.43	54.0	11.00	AV	359.00	150	Vertical	Pass

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

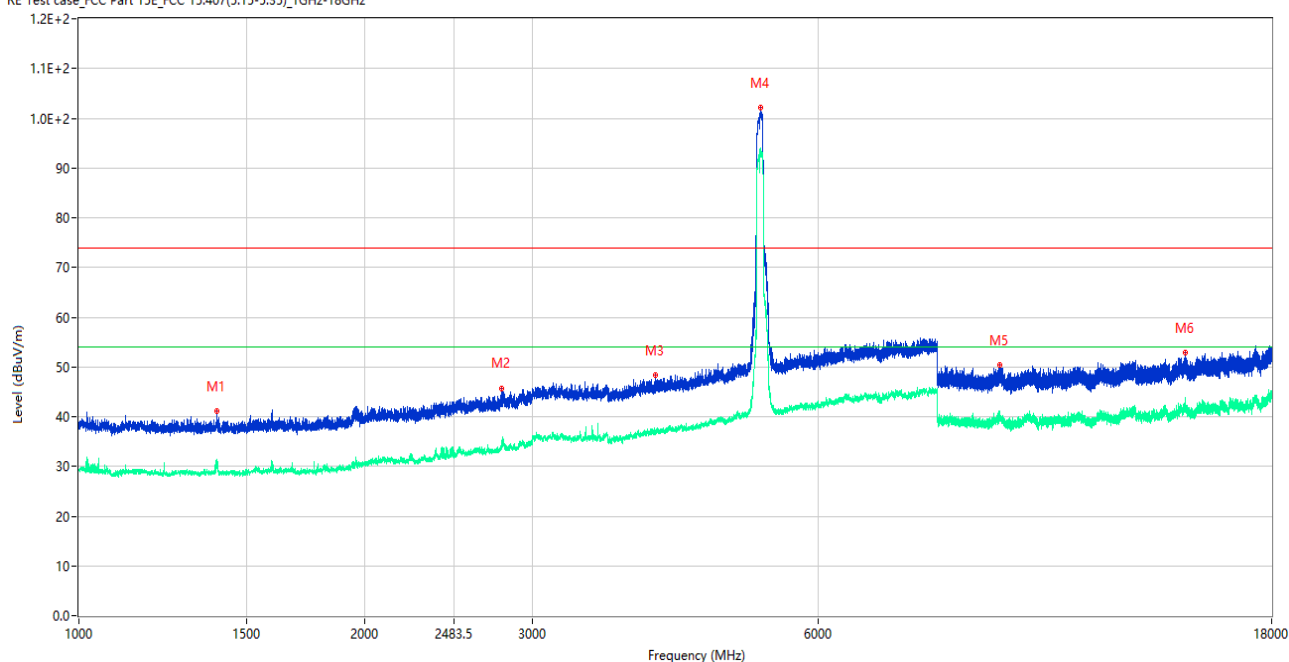
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1356.000	41.08	-14.97	74.0	32.92	Peak	68.00	150	Horizontal	Pass
1**	1356.000	28.54	-14.97	54.0	25.46	AV	68.00	150	Horizontal	Pass
2	2176.250	42.19	-11.71	74.0	31.81	Peak	284.00	150	Horizontal	Pass
2**	2176.250	31.22	-11.71	54.0	22.78	AV	284.00	150	Horizontal	Pass
3	3216.000	47.03	-5.43	74.0	26.97	Peak	161.00	150	Horizontal	Pass
3**	3216.000	36.28	-5.43	54.0	17.72	AV	161.00	150	Horizontal	Pass
4	5215.000	89.91	-0.94	74.0	-15.91	Peak	291.00	150	Horizontal	N/A
4**	5215.000	81.40	-0.94	54.0	-27.40	AV	291.00	150	Horizontal	N/A
5	9362.775	50.07	-2.14	74.0	23.93	Peak	42.00	150	Horizontal	Pass
5**	9362.775	39.13	-2.14	54.0	14.87	AV	42.00	150	Horizontal	Pass
6	15221.437	52.33	1.74	74.0	21.67	Peak	0.00	150	Horizontal	Pass
6**	15221.437	41.91	1.74	54.0	12.09	AV	0.00	150	Horizontal	Pass

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

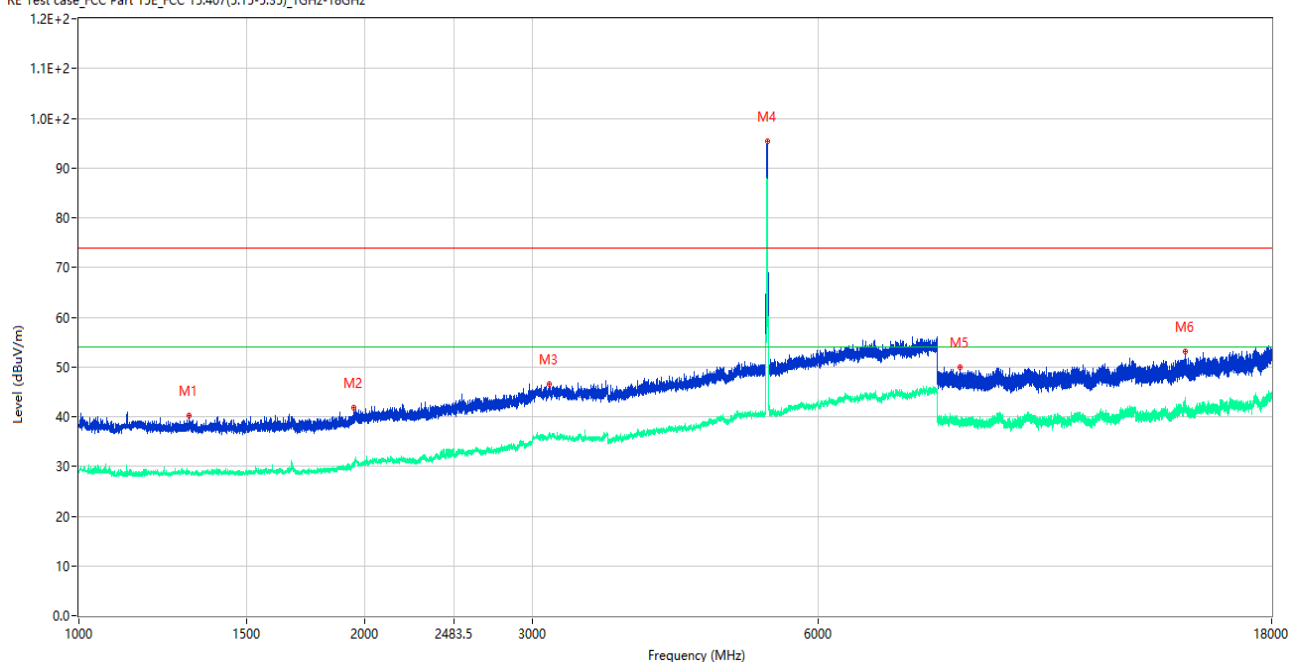
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1395.750	41.12	-15.05	74.0	32.88	Peak	360.00	150	Vertical	Pass
1**	1395.750	29.66	-15.05	54.0	24.34	AV	360.00	150	Vertical	Pass
2	2785.000	45.59	-8.54	74.0	28.41	Peak	221.00	150	Vertical	Pass
2**	2785.000	34.67	-8.54	54.0	19.33	AV	221.00	150	Vertical	Pass
3	4047.500	48.38	-3.12	74.0	25.62	Peak	182.00	150	Vertical	Pass
3**	4047.500	36.98	-3.12	54.0	17.02	AV	182.00	150	Vertical	Pass
4	5216.500	102.09	-0.93	74.0	-28.09	Peak	359.00	150	Vertical	N/A
4**	5216.500	93.88	-0.93	54.0	-39.88	AV	359.00	150	Vertical	N/A
5	9308.387	50.37	-1.84	74.0	23.63	Peak	360.00	150	Vertical	Pass
5**	9308.387	39.87	-1.84	54.0	14.13	AV	360.00	150	Vertical	Pass
6	14592.487	52.87	1.40	74.0	21.13	Peak	359.00	150	Vertical	Pass
6**	14592.487	42.38	1.40	54.0	11.62	AV	359.00	150	Vertical	Pass

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

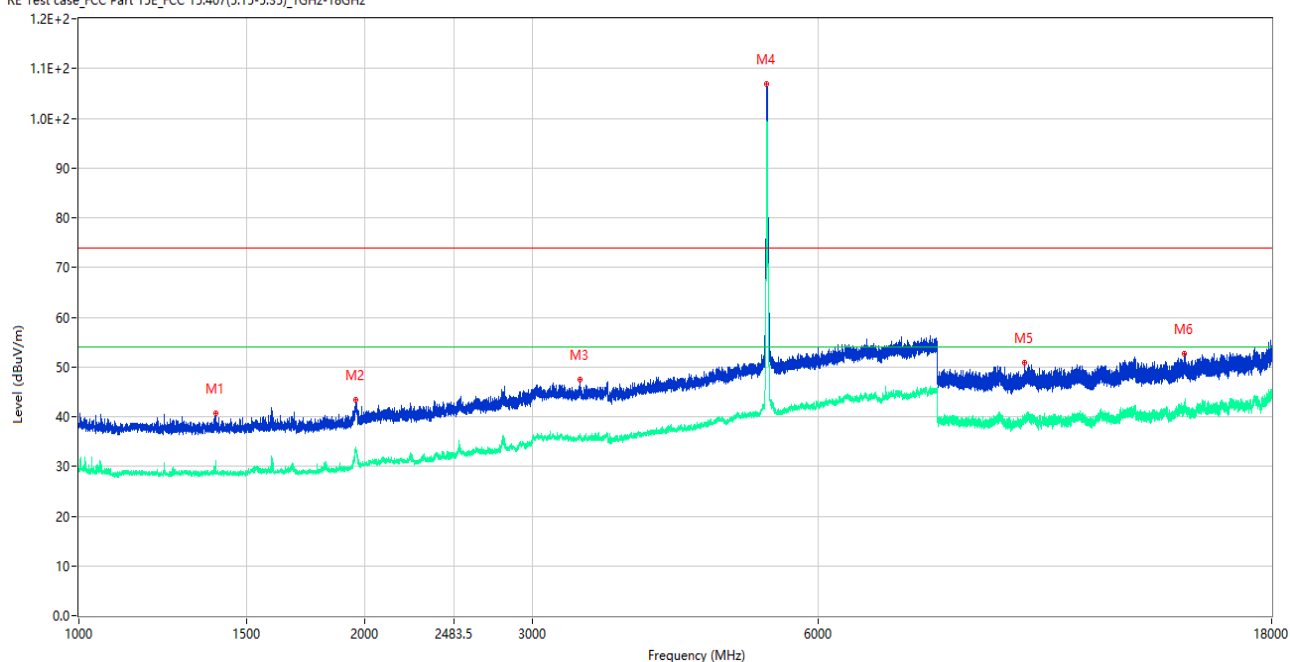
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1305.500	40.26	-14.66	74.0	33.74	Peak	146.00	150	Horizontal	Pass
1**	1305.500	28.80	-14.66	54.0	25.20	AV	146.00	150	Horizontal	Pass
2	1945.000	41.75	-13.63	74.0	32.25	Peak	360.00	150	Horizontal	Pass
2**	1945.000	30.38	-13.63	54.0	23.62	AV	360.00	150	Horizontal	Pass
3	3125.000	46.60	-6.04	74.0	27.40	Peak	123.00	150	Horizontal	Pass
3**	3125.000	36.21	-6.04	54.0	17.79	AV	123.00	150	Horizontal	Pass
4	5303.000	95.39	-0.57	74.0	-21.39	Peak	291.00	150	Horizontal	N/A
4**	5303.000	86.81	-0.57	54.0	-32.81	AV	291.00	150	Horizontal	N/A
5	8465.737	49.95	-2.58	74.0	24.05	Peak	192.00	150	Horizontal	Pass
5**	8465.737	38.50	-2.58	54.0	15.50	AV	192.00	150	Horizontal	Pass
6	14592.224	53.17	1.43	74.0	20.83	Peak	221.00	150	Horizontal	Pass
6**	14592.224	43.85	1.43	54.0	10.15	AV	221.00	150	Horizontal	Pass

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

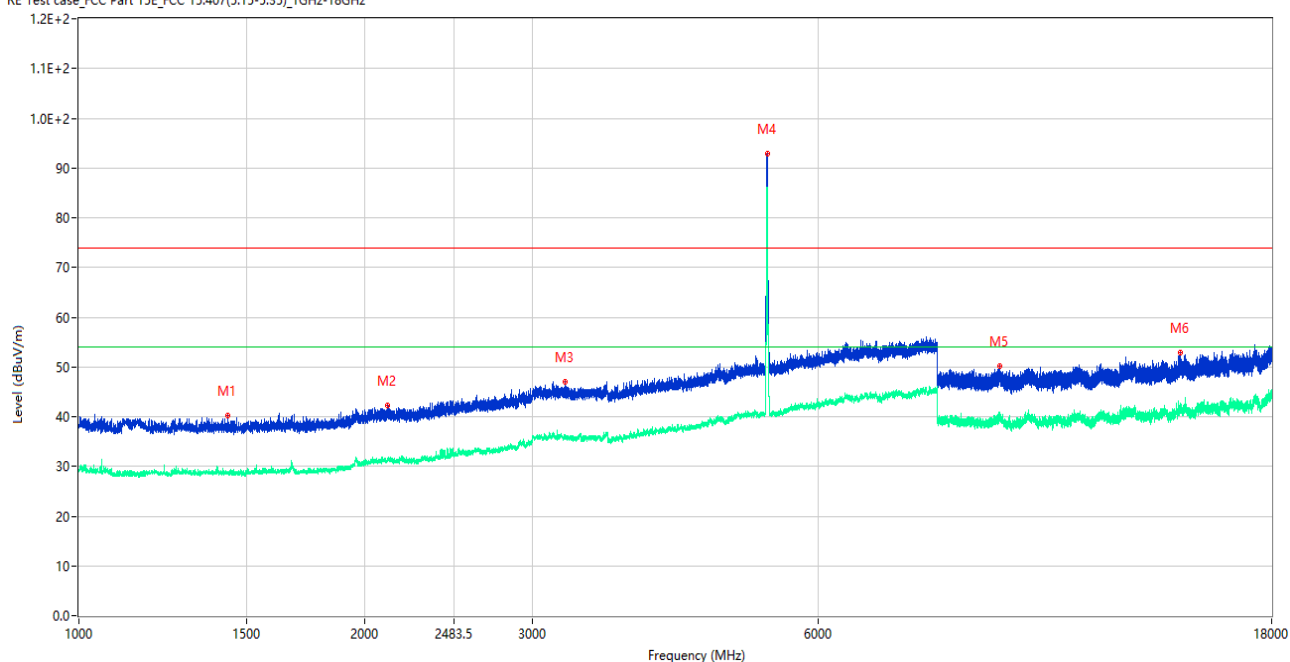
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1393.250	40.70	-15.05	74.0	33.30	Peak	6.00	150	Vertical	Pass
1**	1393.250	30.61	-15.05	54.0	23.39	AV	6.00	150	Vertical	Pass
2	1954.750	43.33	-13.67	74.0	30.67	Peak	202.00	150	Vertical	Pass
2**	1954.750	33.00	-13.67	54.0	21.00	AV	202.00	150	Vertical	Pass
3	3367.000	47.39	-5.40	74.0	26.61	Peak	169.00	150	Vertical	Pass
3**	3367.000	36.41	-5.40	54.0	17.59	AV	169.00	150	Vertical	Pass
4	5298.000	106.80	-0.54	74.0	-32.80	Peak	342.00	150	Vertical	N/A
4**	5298.000	99.30	-0.54	54.0	-45.30	AV	342.00	150	Vertical	N/A
5	9889.075	50.79	-1.08	74.0	23.21	Peak	332.00	150	Vertical	Pass
5**	9889.075	40.31	-1.08	54.0	13.69	AV	332.00	150	Vertical	Pass
6	14581.200	52.63	0.35	74.0	21.37	Peak	186.00	150	Vertical	Pass
6**	14581.200	41.41	0.35	54.0	12.59	AV	186.00	150	Vertical	Pass

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

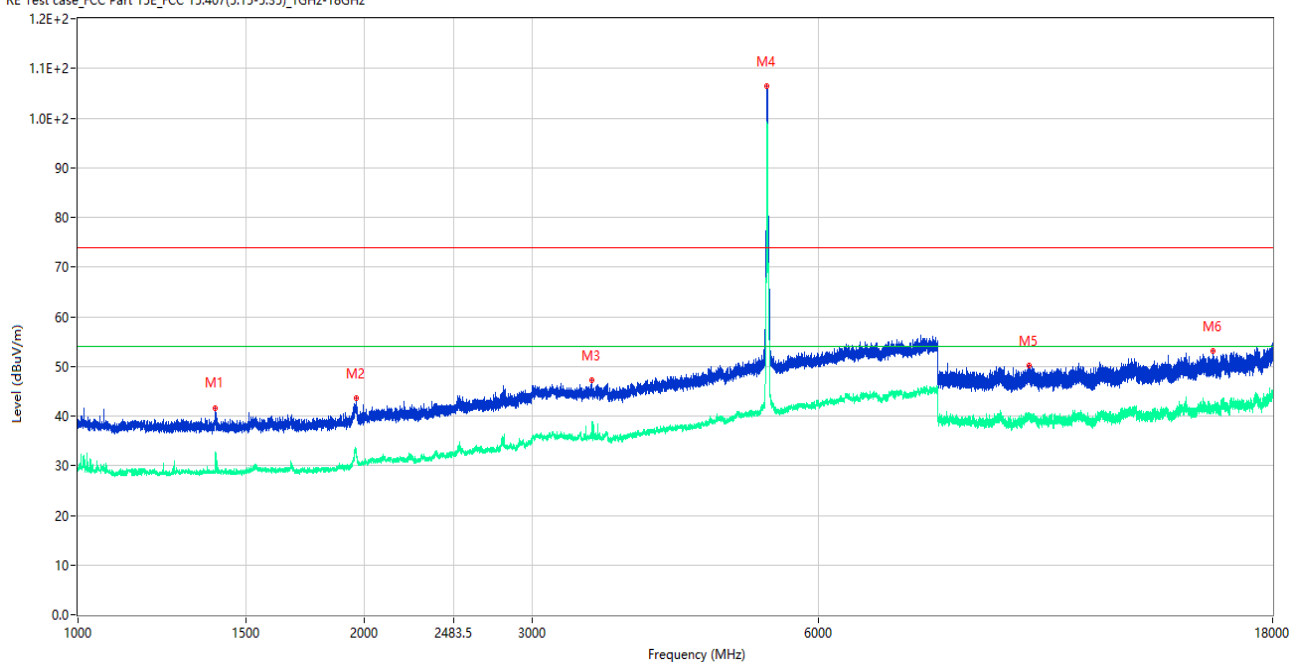
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1434.000	40.21	-15.11	74.0	33.79	Peak	273.00	150	Horizontal	Pass
1**	1434.000	28.86	-15.11	54.0	25.14	AV	273.00	150	Horizontal	Pass
2	2110.750	42.29	-12.41	74.0	31.71	Peak	56.00	150	Horizontal	Pass
2**	2110.750	30.87	-12.41	54.0	23.13	AV	56.00	150	Horizontal	Pass
3	3247.000	46.95	-6.53	74.0	27.05	Peak	191.00	150	Horizontal	Pass
3**	3247.000	36.33	-6.53	54.0	17.67	AV	191.00	150	Horizontal	Pass
4	5300.500	92.82	-0.60	74.0	-18.82	Peak	288.00	150	Horizontal	N/A
4**	5300.500	84.72	-0.60	54.0	-30.72	AV	288.00	150	Horizontal	N/A
5	9308.151	50.18	-1.84	74.0	23.82	Peak	6.00	150	Horizontal	Pass
5**	9308.151	40.05	-1.84	54.0	13.95	AV	6.00	150	Horizontal	Pass
6	14415.300	52.77	0.48	74.0	21.23	Peak	187.00	150	Horizontal	Pass
6**	14415.300	42.09	0.48	54.0	11.91	AV	187.00	150	Horizontal	Pass

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

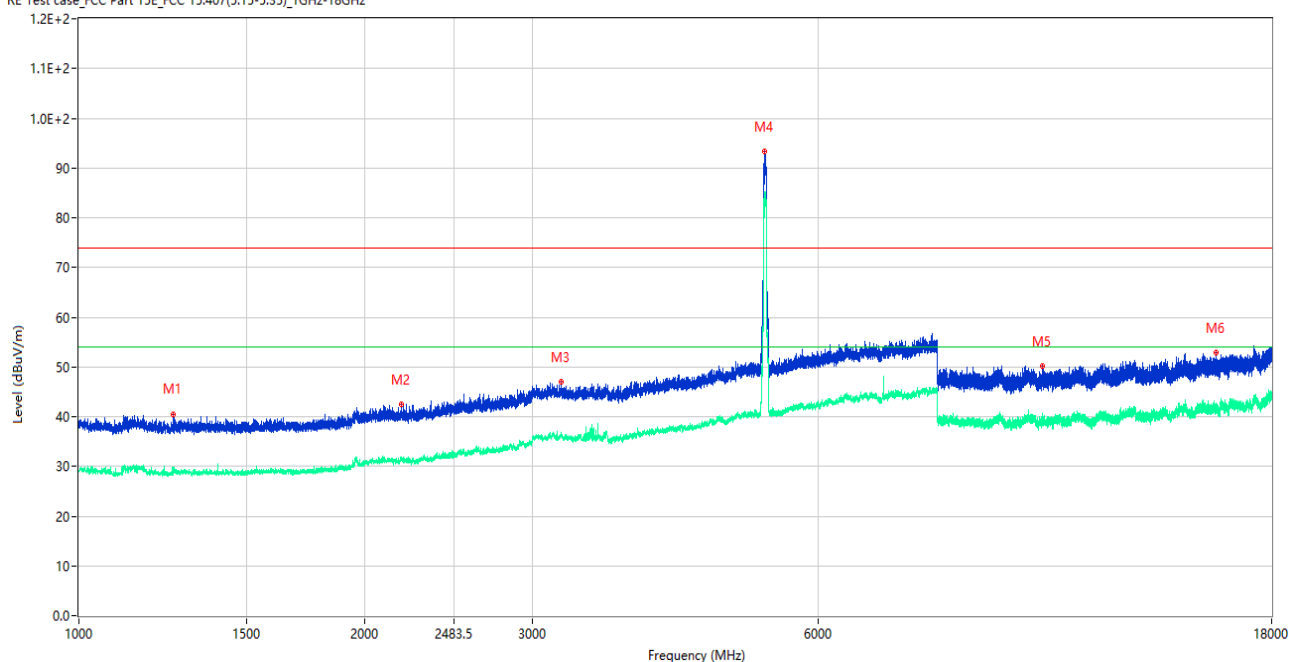
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1393.750	41.57	-15.06	74.0	32.43	Peak	182.00	150	Vertical	Pass
1**	1393.750	32.10	-15.06	54.0	21.90	AV	182.00	150	Vertical	Pass
2	1960.250	43.57	-13.75	74.0	30.43	Peak	200.00	150	Vertical	Pass
2**	1960.250	32.23	-13.75	54.0	21.77	AV	200.00	150	Vertical	Pass
3	3465.000	47.14	-5.47	74.0	26.86	Peak	0.00	150	Vertical	Pass
3**	3465.000	37.76	-5.47	54.0	16.24	AV	0.00	150	Vertical	Pass
4	5298.500	106.42	-0.53	74.0	-32.42	Peak	339.00	150	Vertical	N/A
4**	5298.500	98.56	-0.53	54.0	-44.56	AV	339.00	150	Vertical	N/A
5	9985.500	50.08	-0.70	74.0	23.92	Peak	117.00	150	Vertical	Pass
5**	9985.500	39.59	-0.70	54.0	14.41	AV	117.00	150	Vertical	Pass
6	15584.213	53.02	0.46	74.0	20.98	Peak	0.00	150	Vertical	Pass
6**	15584.213	41.36	0.46	54.0	12.64	AV	0.00	150	Vertical	Pass

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

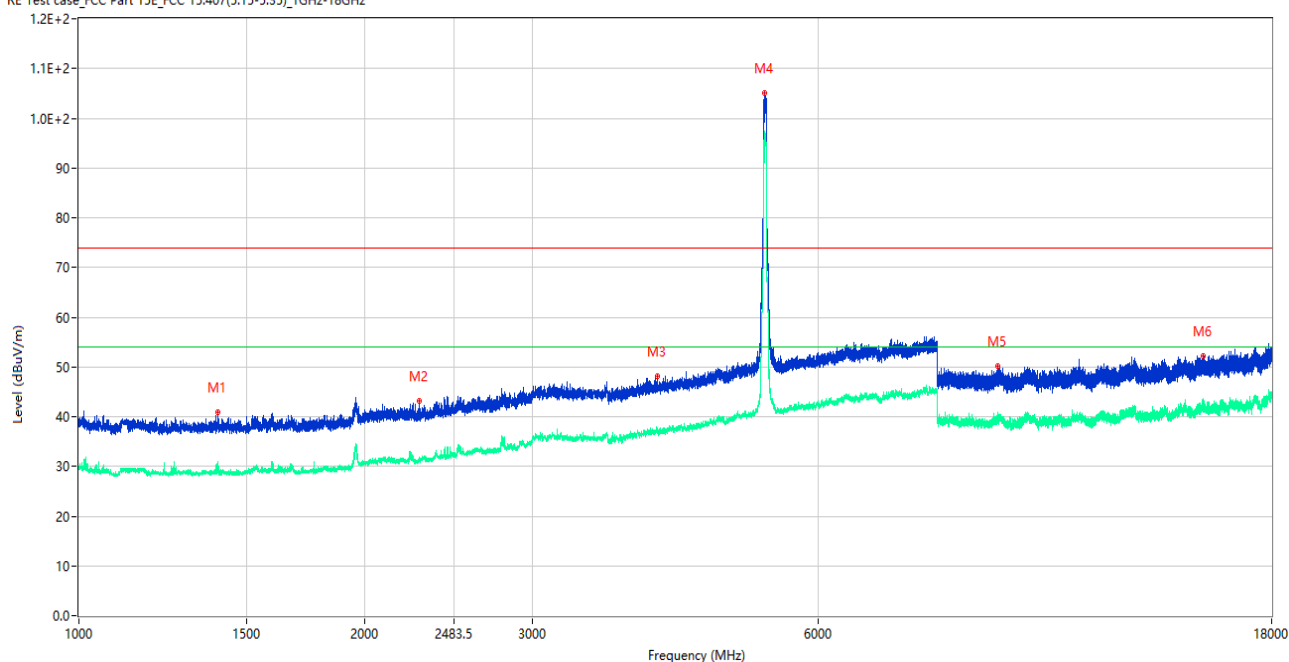
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1257.000	40.55	-15.14	74.0	33.45	Peak	360.00	150	Horizontal	Pass
1**	1257.000	28.75	-15.14	54.0	25.25	AV	360.00	150	Horizontal	Pass
2	2186.000	42.46	-11.98	74.0	31.54	Peak	359.00	150	Horizontal	Pass
2**	2186.000	31.34	-11.98	54.0	22.66	AV	359.00	150	Horizontal	Pass
3	3220.000	46.91	-5.46	74.0	27.09	Peak	0.00	150	Horizontal	Pass
3**	3220.000	36.28	-5.46	54.0	17.72	AV	0.00	150	Horizontal	Pass
4	5267.000	93.26	-0.89	74.0	-19.26	Peak	290.00	150	Horizontal	N/A
4**	5267.000	85.10	-0.89	54.0	-31.10	AV	290.00	150	Horizontal	N/A
5	10336.763	50.17	-0.94	74.0	23.83	Peak	354.00	150	Horizontal	Pass
5**	10336.763	38.87	-0.94	54.0	15.13	AV	354.00	150	Horizontal	Pass
6	15714.150	52.89	1.12	74.0	21.11	Peak	15.00	150	Horizontal	Pass
6**	15714.150	41.87	1.12	54.0	12.13	AV	15.00	150	Horizontal	Pass

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

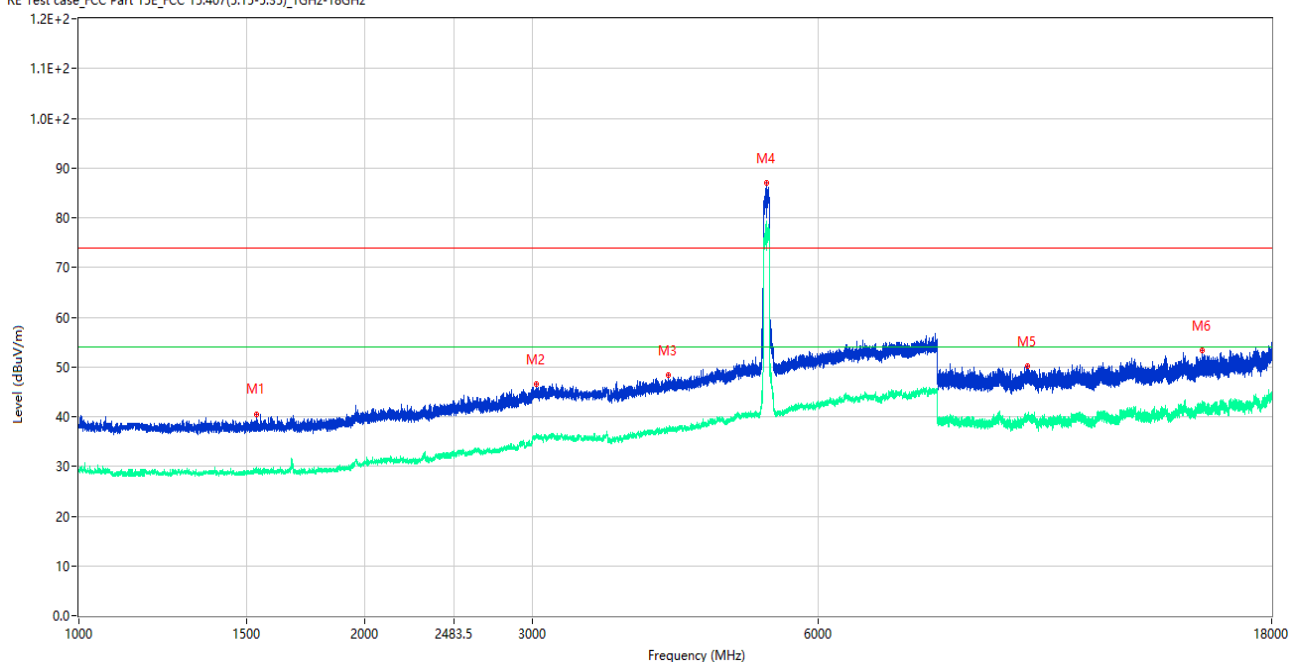
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1401.500	40.86	-14.99	74.0	33.14	Peak	360.00	150	Vertical	Pass
1**	1401.500	30.88	-14.99	54.0	23.12	AV	360.00	150	Vertical	Pass
2	2283.250	43.06	-11.68	74.0	30.94	Peak	360.00	150	Vertical	Pass
2**	2283.250	31.87	-11.68	54.0	22.13	AV	360.00	150	Vertical	Pass
3	4066.500	48.10	-3.25	74.0	25.90	Peak	198.00	150	Vertical	Pass
3**	4066.500	37.55	-3.25	54.0	16.45	AV	198.00	150	Vertical	Pass
4	5273.500	105.08	-0.85	74.0	-31.08	Peak	339.00	150	Vertical	N/A
4**	5273.500	96.63	-0.85	54.0	-42.63	AV	339.00	150	Vertical	N/A
5	9266.113	50.26	-1.93	74.0	23.74	Peak	68.00	150	Vertical	Pass
5**	9266.113	39.63	-1.93	54.0	14.37	AV	68.00	150	Vertical	Pass
6	15265.013	52.22	2.05	74.0	21.78	Peak	222.00	150	Vertical	Pass
6**	15265.013	42.51	2.05	54.0	11.49	AV	222.00	150	Vertical	Pass

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

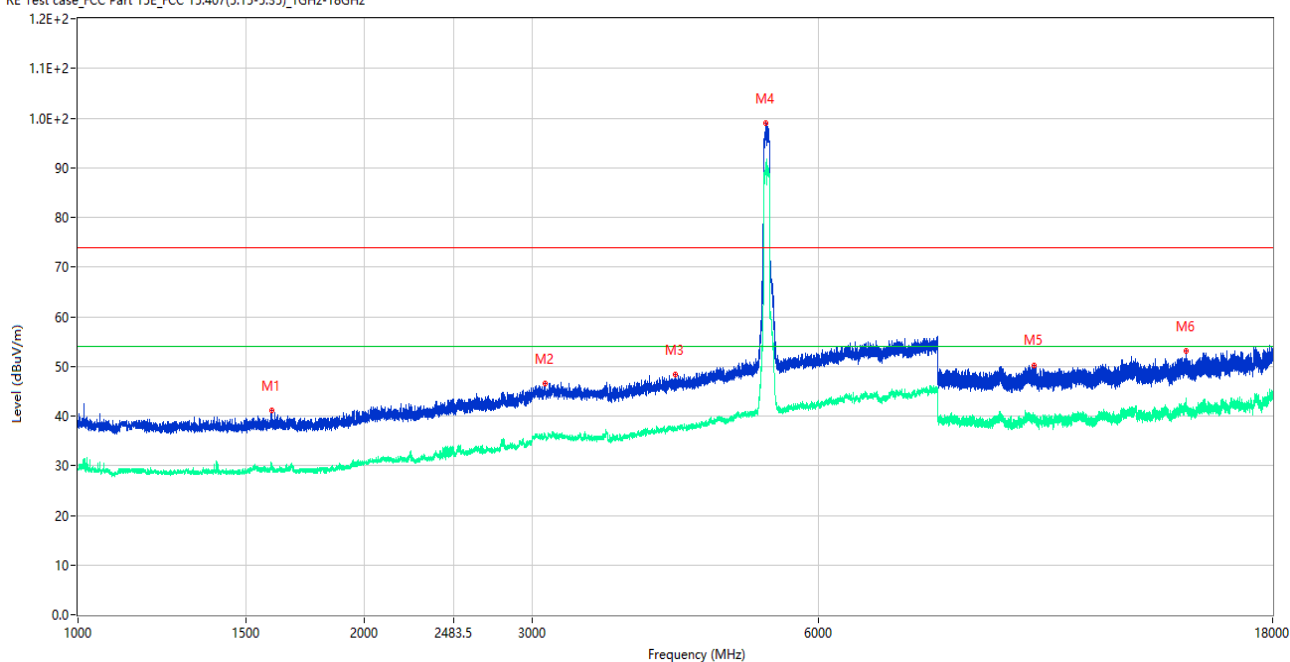
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1538.500	40.55	-15.15	74.0	33.45	Peak	256.00	150	Horizontal	Pass
1**	1538.500	29.04	-15.15	54.0	24.96	AV	256.00	150	Horizontal	Pass
2	3032.000	46.53	-6.64	74.0	27.47	Peak	253.00	150	Horizontal	Pass
2**	3032.000	35.87	-6.64	54.0	18.13	AV	253.00	150	Horizontal	Pass
3	4175.500	48.35	-3.19	74.0	25.65	Peak	142.00	150	Horizontal	Pass
3**	4175.500	37.29	-3.19	54.0	16.71	AV	142.00	150	Horizontal	Pass
4	5296.000	86.96	-0.52	74.0	-12.96	Peak	294.00	150	Horizontal	N/A
4**	5296.000	79.03	-0.52	54.0	-25.03	AV	294.00	150	Horizontal	N/A
5	9970.775	50.08	-0.54	74.0	23.92	Peak	68.00	150	Horizontal	Pass
5**	9970.775	39.78	-0.54	54.0	14.22	AV	68.00	150	Horizontal	Pass
6	15221.175	53.36	1.76	74.0	20.64	Peak	0.00	150	Horizontal	Pass
6**	15221.175	42.35	1.76	54.0	11.65	AV	0.00	150	Horizontal	Pass

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

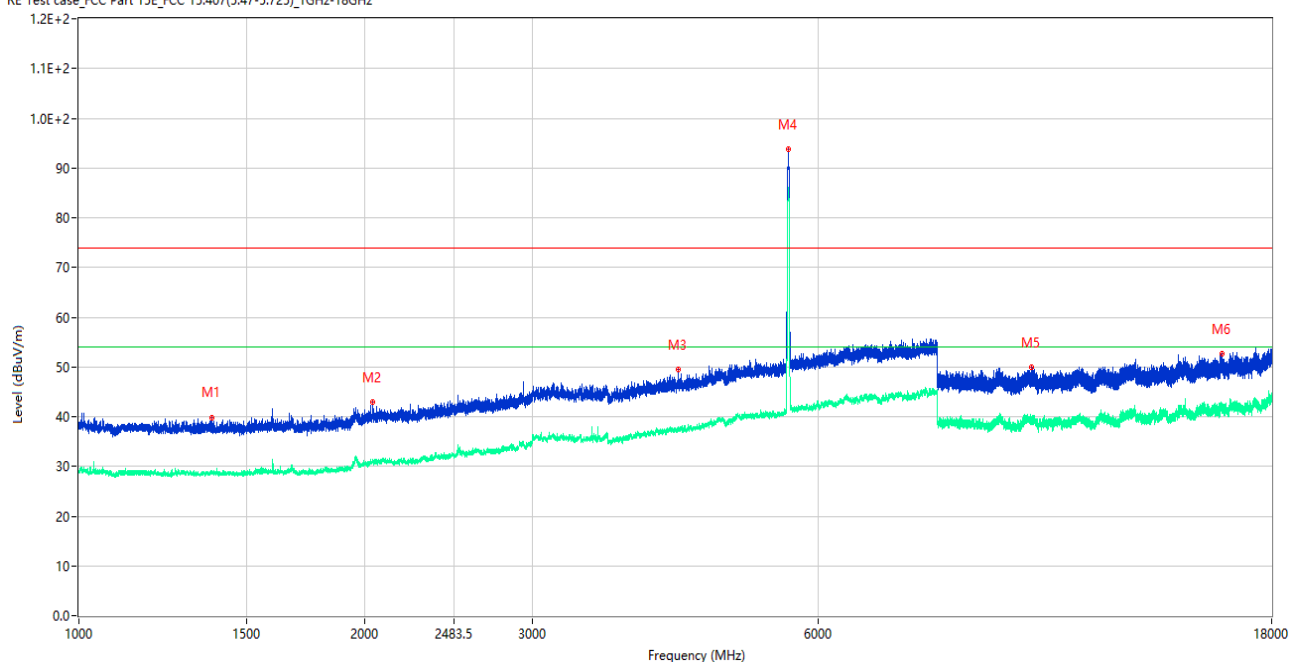
RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1596.500	41.04	-15.17	74.0	32.96	Peak	317.00	150	Vertical	Pass
1**	1596.500	30.15	-15.17	54.0	23.85	AV	317.00	150	Vertical	Pass
2	3094.500	46.51	-5.69	74.0	27.49	Peak	321.00	150	Vertical	Pass
2**	3094.500	36.24	-5.69	54.0	17.76	AV	321.00	150	Vertical	Pass
3	4247.500	48.34	-2.59	74.0	25.66	Peak	342.00	150	Vertical	Pass
3**	4247.500	37.59	-2.59	54.0	16.41	AV	342.00	150	Vertical	Pass
4	5284.500	98.97	-0.72	74.0	-24.97	Peak	342.00	150	Vertical	N/A
4**	5284.500	90.90	-0.72	54.0	-36.90	AV	342.00	150	Vertical	N/A
5	10100.924	50.27	-0.98	74.0	23.73	Peak	43.00	150	Vertical	Pass
5**	10100.924	39.48	-0.98	54.0	14.52	AV	43.00	150	Vertical	Pass
6	14591.175	53.00	1.27	74.0	21.00	Peak	118.00	150	Vertical	Pass
6**	14591.175	43.17	1.27	54.0	10.83	AV	118.00	150	Vertical	Pass

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

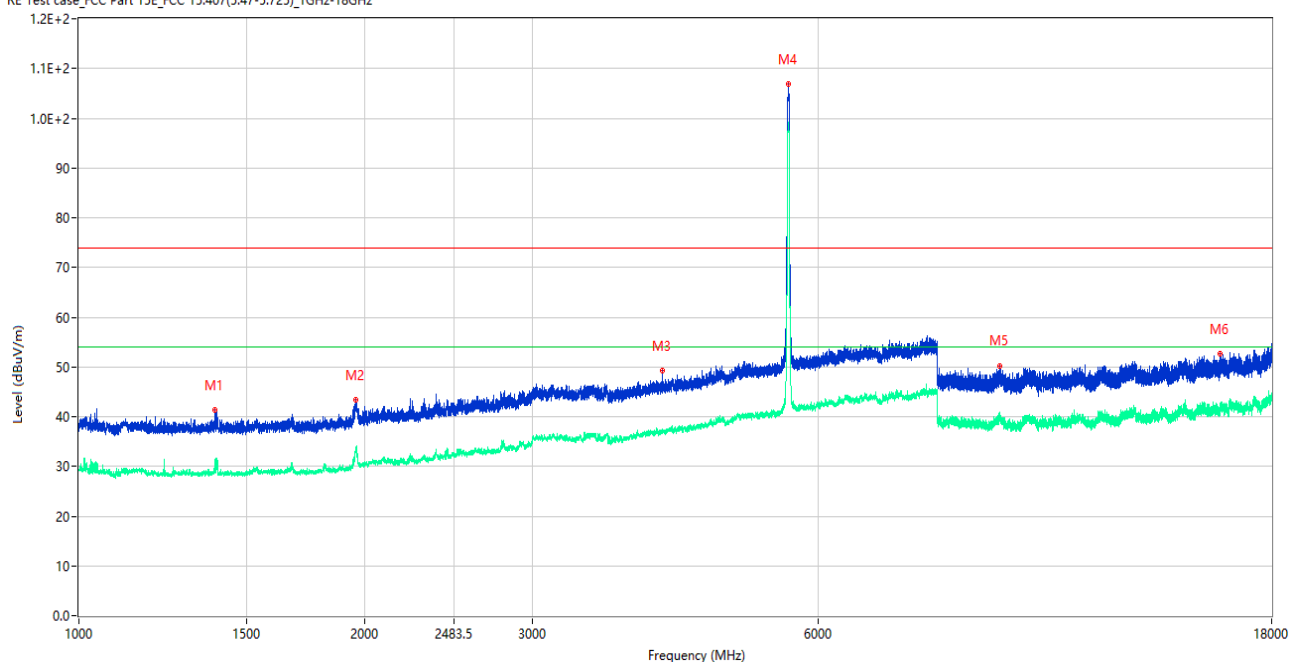
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1379.500	39.74	-15.08	74.0	34.26	Peak	163.00	150	Horizontal	Pass
1**	1379.500	28.45	-15.08	54.0	25.55	AV	163.00	150	Horizontal	Pass
2	2037.250	42.87	-12.13	74.0	31.13	Peak	191.00	150	Horizontal	Pass
2**	2037.250	31.01	-12.13	54.0	22.99	AV	191.00	150	Horizontal	Pass
3	4276.500	49.49	-2.40	74.0	24.51	Peak	10.00	150	Horizontal	Pass
3**	4276.500	37.94	-2.40	54.0	16.06	AV	10.00	150	Horizontal	Pass
4	5581.000	93.76	-0.71	74.0	-19.76	Peak	290.00	150	Horizontal	N/A
4**	5581.000	85.52	-0.71	54.0	-31.52	AV	290.00	150	Horizontal	N/A
5	10054.138	49.93	-0.98	74.0	24.07	Peak	360.00	150	Horizontal	Pass
5**	10054.138	39.17	-0.98	54.0	14.83	AV	360.00	150	Horizontal	Pass
6	15942.787	52.68	1.48	74.0	21.32	Peak	0.00	150	Horizontal	Pass
6**	15942.787	41.77	1.48	54.0	12.23	AV	0.00	150	Horizontal	Pass

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

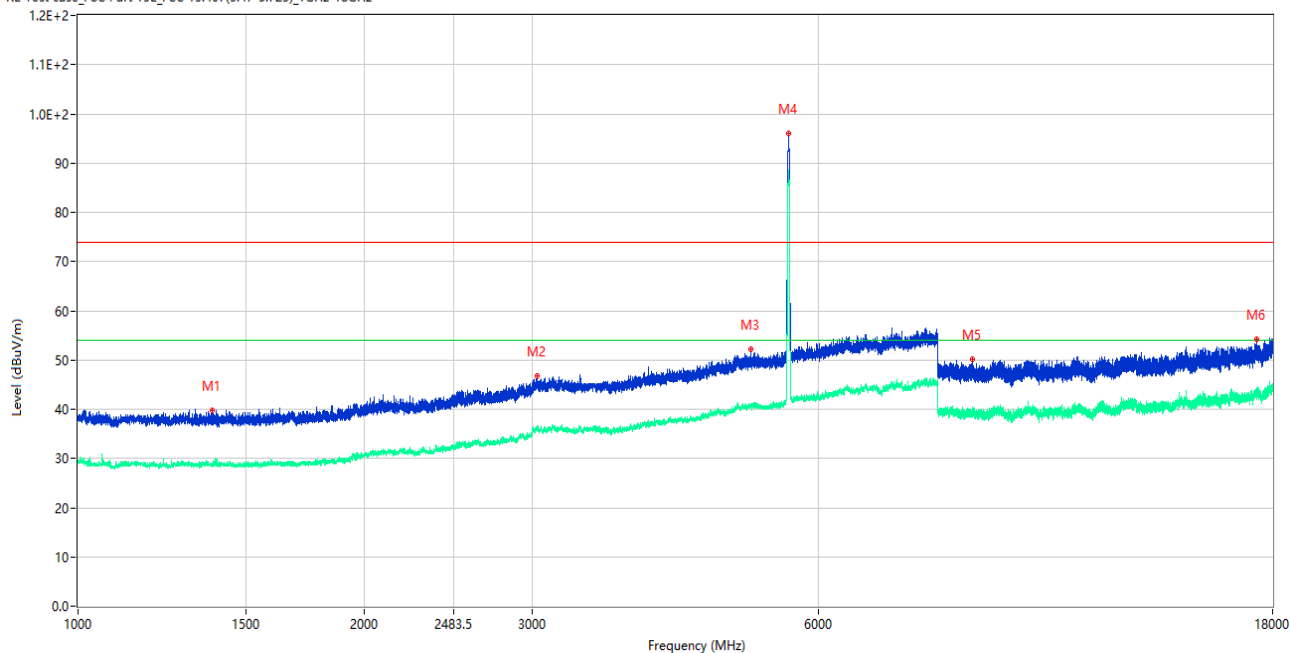
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1390.000	41.27	-15.04	74.0	32.73	Peak	360.00	150	Vertical	Pass
1**	1390.000	30.35	-15.04	54.0	23.65	AV	360.00	150	Vertical	Pass
2	1957.000	43.43	-13.72	74.0	30.57	Peak	202.00	150	Vertical	Pass
2**	1957.000	33.86	-13.72	54.0	20.14	AV	202.00	150	Vertical	Pass
3	4116.000	49.17	-3.03	74.0	24.83	Peak	19.00	150	Vertical	Pass
3**	4116.000	37.07	-3.03	54.0	16.93	AV	19.00	150	Vertical	Pass
4	5578.500	106.81	-0.75	74.0	-32.81	Peak	139.00	150	Vertical	N/A
4**	5578.500	98.60	-0.75	54.0	-44.60	AV	139.00	150	Vertical	N/A
5	9321.925	50.27	-2.09	74.0	23.73	Peak	353.00	150	Vertical	Pass
5**	9321.925	39.44	-2.09	54.0	14.56	AV	353.00	150	Vertical	Pass
6	15882.937	52.72	1.53	74.0	21.28	Peak	360.00	150	Vertical	Pass
6**	15882.937	42.42	1.53	54.0	11.58	AV	360.00	150	Vertical	Pass

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

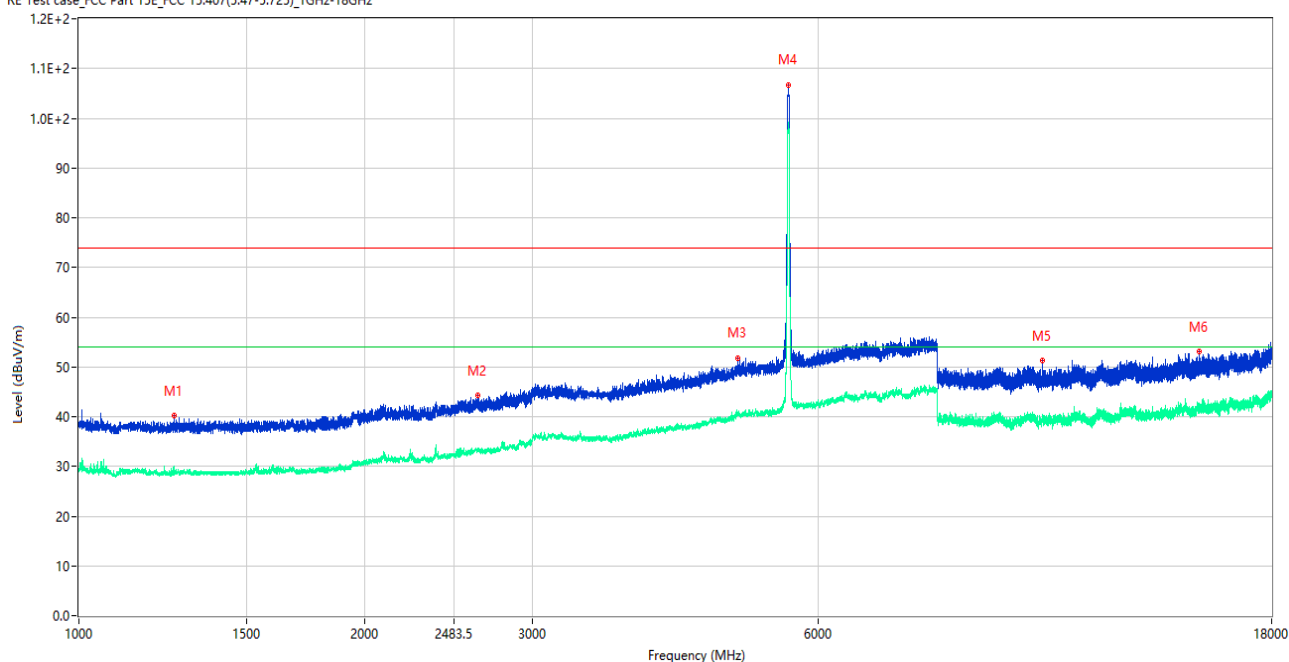
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1385.000	39.85	-15.08	74.0	34.15	Peak	328.00	150	Horizontal	Pass
1**	1385.000	28.76	-15.08	54.0	25.24	AV	328.00	150	Horizontal	Pass
2	3036.000	46.81	-6.73	74.0	27.19	Peak	360.00	150	Horizontal	Pass
2**	3036.000	36.01	-6.73	54.0	17.99	AV	360.00	150	Horizontal	Pass
3	5095.500	52.19	-0.89	74.0	21.81	Peak	360.00	150	Horizontal	Pass
3**	5095.500	40.67	-0.89	54.0	13.33	AV	360.00	150	Horizontal	Pass
4	5576.500	95.96	-0.76	74.0	-21.96	Peak	160.00	150	Horizontal	N/A
4**	5576.500	86.83	-0.76	54.0	-32.83	AV	160.00	150	Horizontal	N/A
5	8711.075	50.14	-2.43	74.0	23.86	Peak	29.00	150	Horizontal	Pass
5**	8711.075	39.38	-2.43	54.0	14.62	AV	29.00	150	Horizontal	Pass
6	17332.988	54.19	3.66	74.0	19.81	Peak	71.00	150	Horizontal	Pass
6**	17332.988	43.10	3.66	54.0	10.90	AV	71.00	150	Horizontal	Pass

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

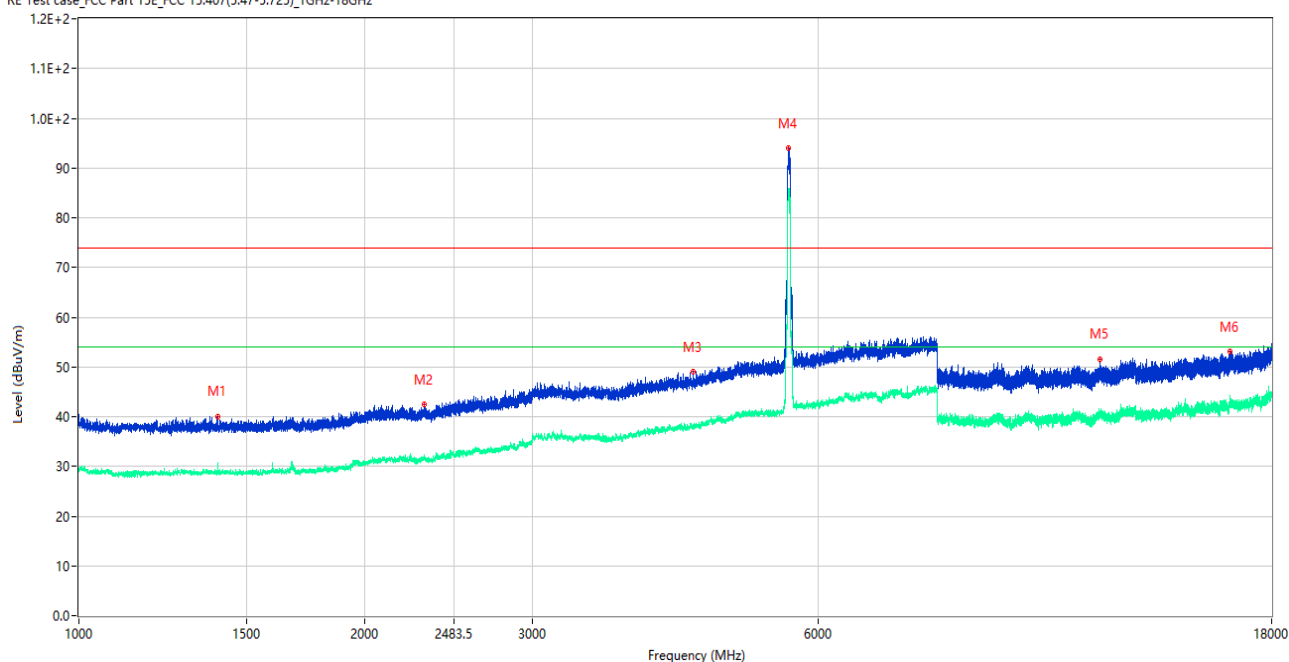
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1259.000	40.16	-15.11	74.0	33.84	Peak	0.00	150	Vertical	Pass
1**	1259.000	28.94	-15.11	54.0	25.06	AV	0.00	150	Vertical	Pass
2	2627.500	44.20	-8.69	74.0	29.80	Peak	7.00	150	Vertical	Pass
2**	2627.500	33.15	-8.69	54.0	20.85	AV	7.00	150	Vertical	Pass
3	4935.500	51.84	-0.72	74.0	22.16	Peak	68.00	150	Vertical	Pass
3**	4935.500	40.49	-0.72	54.0	13.51	AV	68.00	150	Vertical	Pass
4	5579.000	106.77	-0.74	74.0	-32.77	Peak	49.00	150	Vertical	N/A
4**	5579.000	98.84	-0.74	54.0	-44.84	AV	49.00	150	Vertical	N/A
5	10324.650	51.26	-0.79	74.0	22.74	Peak	175.00	150	Vertical	Pass
5**	10324.650	39.48	-0.79	54.0	14.52	AV	175.00	150	Vertical	Pass
6	15090.187	53.16	1.41	74.0	20.84	Peak	0.00	150	Vertical	Pass
6**	15090.187	42.13	1.41	54.0	11.87	AV	0.00	150	Vertical	Pass

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

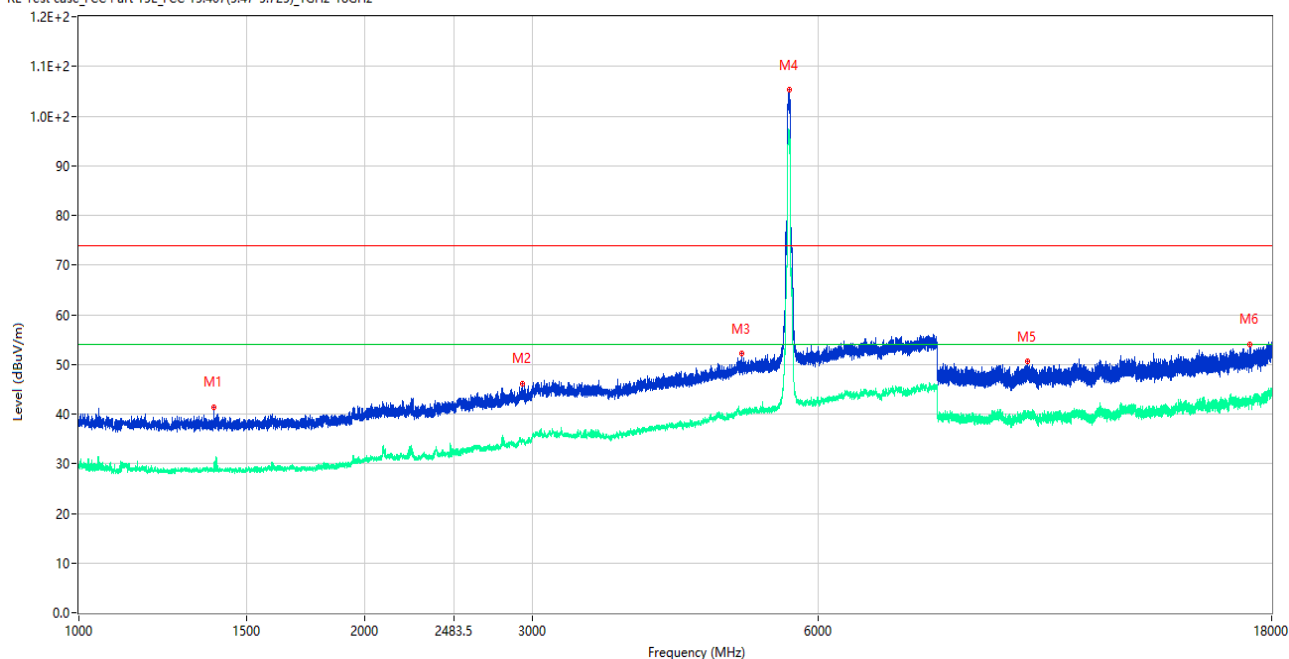
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1399.500	40.10	-15.03	74.0	33.90	Peak	175.00	150	Horizontal	Pass
1**	1399.500	28.95	-15.03	54.0	25.05	AV	175.00	150	Horizontal	Pass
2	2307.500	42.48	-11.35	74.0	31.52	Peak	2.00	150	Horizontal	Pass
2**	2307.500	31.80	-11.35	54.0	22.20	AV	2.00	150	Horizontal	Pass
3	4432.500	48.98	-2.29	74.0	25.02	Peak	170.00	150	Horizontal	Pass
3**	4432.500	37.33	-2.29	54.0	16.67	AV	170.00	150	Horizontal	Pass
4	5586.500	94.04	-0.59	74.0	-20.04	Peak	161.00	150	Horizontal	N/A
4**	5586.500	85.89	-0.59	54.0	-31.89	AV	161.00	150	Horizontal	N/A
5	11878.850	51.62	-1.14	74.0	22.38	Peak	0.00	150	Horizontal	Pass
5**	11878.850	39.55	-1.14	54.0	14.45	AV	0.00	150	Horizontal	Pass
6	16287.974	53.03	2.33	74.0	20.97	Peak	309.00	150	Horizontal	Pass
6**	16287.974	43.64	2.33	54.0	10.36	AV	309.00	150	Horizontal	Pass

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

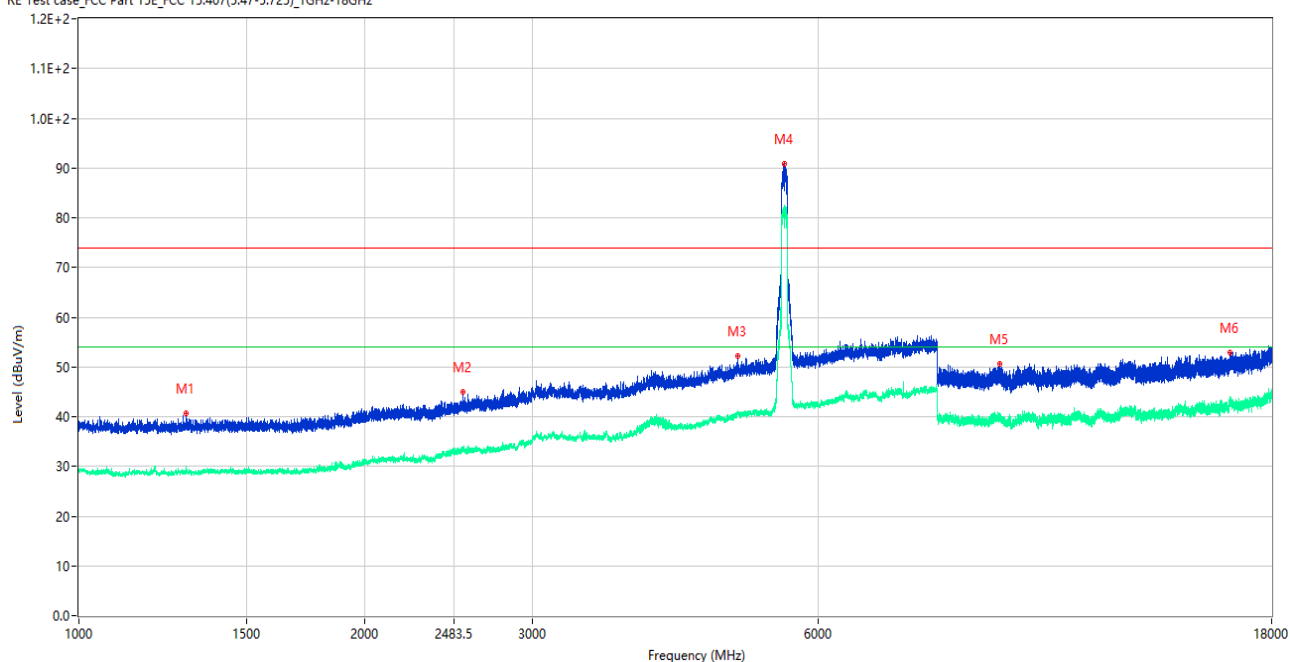
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1388.250	41.46	-15.07	74.0	32.54	Peak	163.00	150	Vertical	Pass
1**	1388.250	28.79	-15.07	54.0	25.21	AV	163.00	150	Vertical	Pass
2	2928.000	46.02	-6.79	74.0	27.98	Peak	92.00	150	Vertical	Pass
2**	2928.000	34.69	-6.79	54.0	19.31	AV	92.00	150	Vertical	Pass
3	4984.000	52.24	-1.16	74.0	21.76	Peak	127.00	150	Vertical	Pass
3**	4984.000	40.33	-1.16	54.0	13.67	AV	127.00	150	Vertical	Pass
4	5591.500	105.22	-0.60	74.0	-31.22	Peak	56.00	150	Vertical	N/A
4**	5591.500	96.63	-0.60	54.0	-42.63	AV	56.00	150	Vertical	N/A
5	9971.250	50.51	-0.56	74.0	23.49	Peak	149.00	150	Vertical	Pass
5**	9971.250	39.92	-0.56	54.0	14.08	AV	149.00	150	Vertical	Pass
6	17088.074	54.01	2.28	74.0	19.99	Peak	313.00	150	Vertical	Pass
6**	17088.074	42.73	2.28	54.0	11.27	AV	313.00	150	Vertical	Pass

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

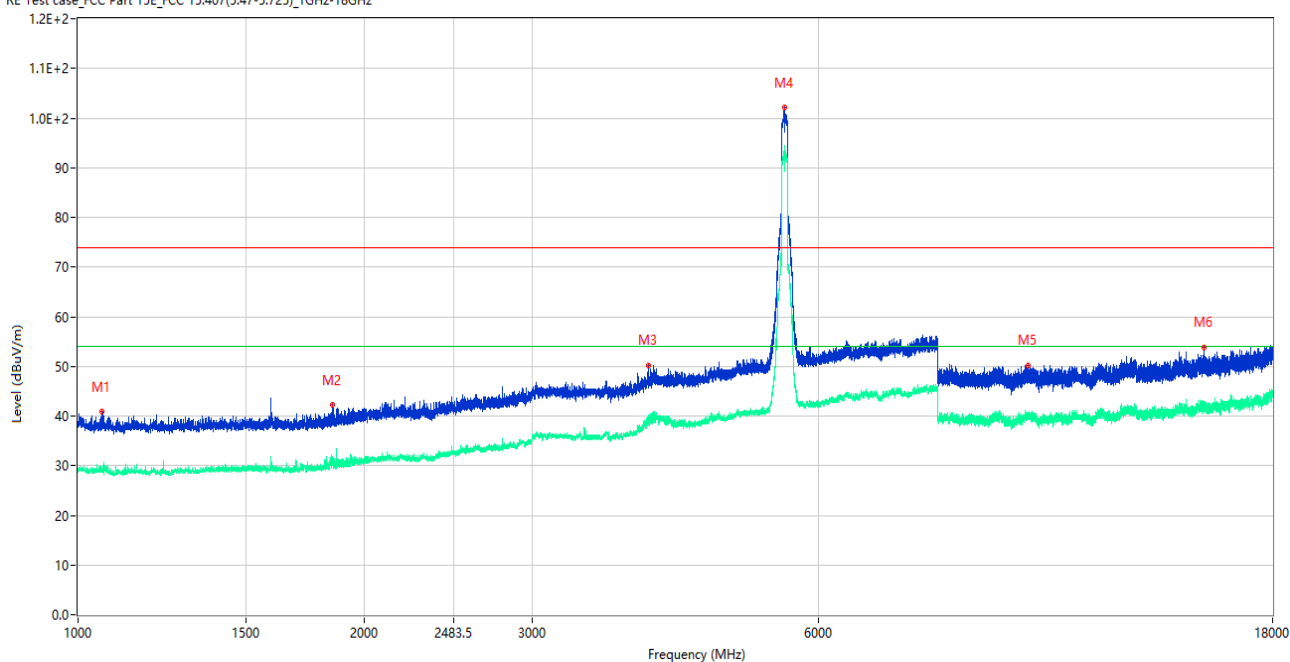
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1297.500	40.60	-14.73	74.0	33.40	Peak	118.00	150	Horizontal	Pass
1**	1297.500	29.07	-14.73	54.0	24.93	AV	118.00	150	Horizontal	Pass
2	2534.500	44.94	-9.91	74.0	29.06	Peak	154.00	150	Horizontal	Pass
2**	2534.500	33.28	-9.91	54.0	20.72	AV	154.00	150	Horizontal	Pass
3	4937.500	52.29	-0.65	74.0	21.71	Peak	191.00	150	Horizontal	Pass
3**	4937.500	41.14	-0.65	54.0	12.86	AV	191.00	150	Horizontal	Pass
4	5521.000	90.74	-0.75	74.0	-16.74	Peak	141.00	150	Horizontal	N/A
4**	5521.000	81.45	-0.75	54.0	-27.45	AV	141.00	150	Horizontal	N/A
5	9304.112	50.61	-1.91	74.0	23.39	Peak	124.00	150	Horizontal	Pass
5**	9304.112	40.17	-1.91	54.0	13.83	AV	124.00	150	Horizontal	Pass
6	16287.188	52.96	2.47	74.0	21.04	Peak	242.00	150	Horizontal	Pass
6**	16287.188	43.60	2.47	54.0	10.40	AV	242.00	150	Horizontal	Pass

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

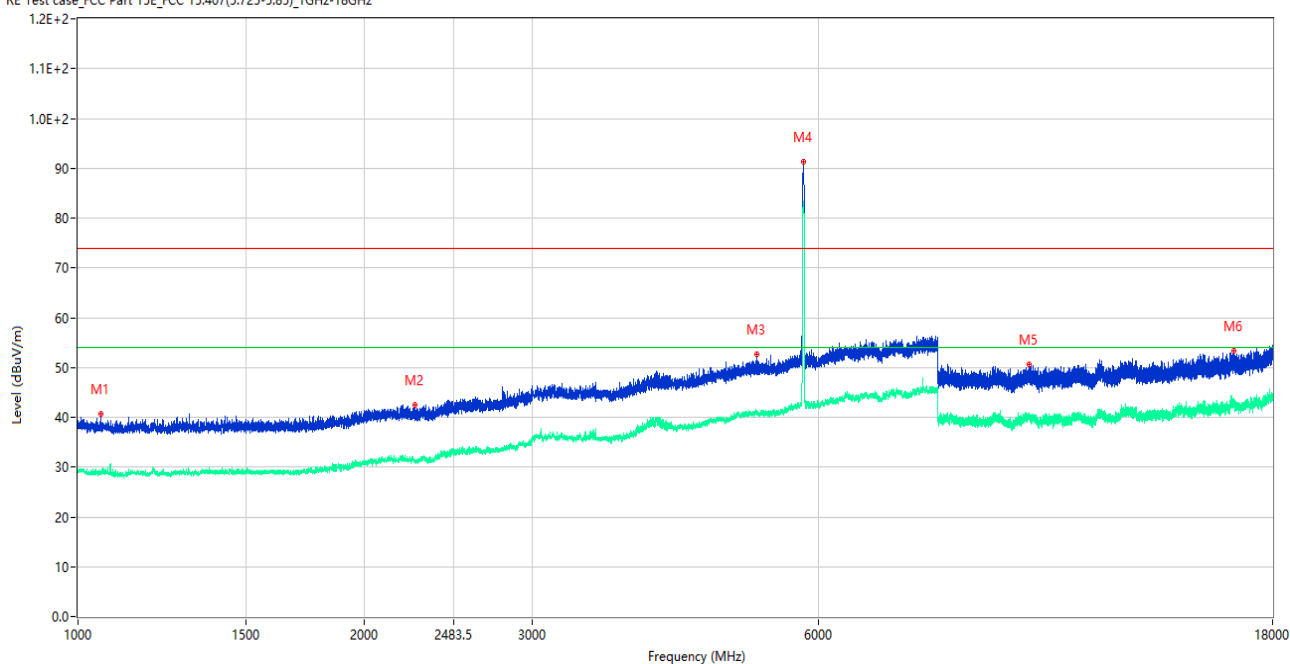
RE Test case_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1059.750	40.80	-14.39	74.0	33.20	Peak	150.00	150	Vertical	Pass
1**	1059.750	29.05	-14.39	54.0	24.95	AV	150.00	150	Vertical	Pass
2	1851.000	42.20	-14.55	74.0	31.80	Peak	130.00	150	Vertical	Pass
2**	1851.000	30.89	-14.55	54.0	23.11	AV	130.00	150	Vertical	Pass
3	3971.500	50.26	-3.30	74.0	23.74	Peak	140.00	150	Vertical	Pass
3**	3971.500	39.20	-3.30	54.0	14.80	AV	140.00	150	Vertical	Pass
4	5521.000	102.13	-0.75	74.0	-28.13	Peak	31.00	150	Vertical	N/A
4**	5521.000	93.20	-0.75	54.0	-39.20	AV	31.00	150	Vertical	N/A
5	9962.463	50.26	-0.82	74.0	23.74	Peak	360.00	150	Vertical	Pass
5**	9962.463	39.90	-0.82	54.0	14.10	AV	360.00	150	Vertical	Pass
6	15258.450	53.88	2.22	74.0	20.12	Peak	326.00	150	Vertical	Pass
6**	15258.450	42.80	2.22	54.0	11.20	AV	326.00	150	Vertical	Pass

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

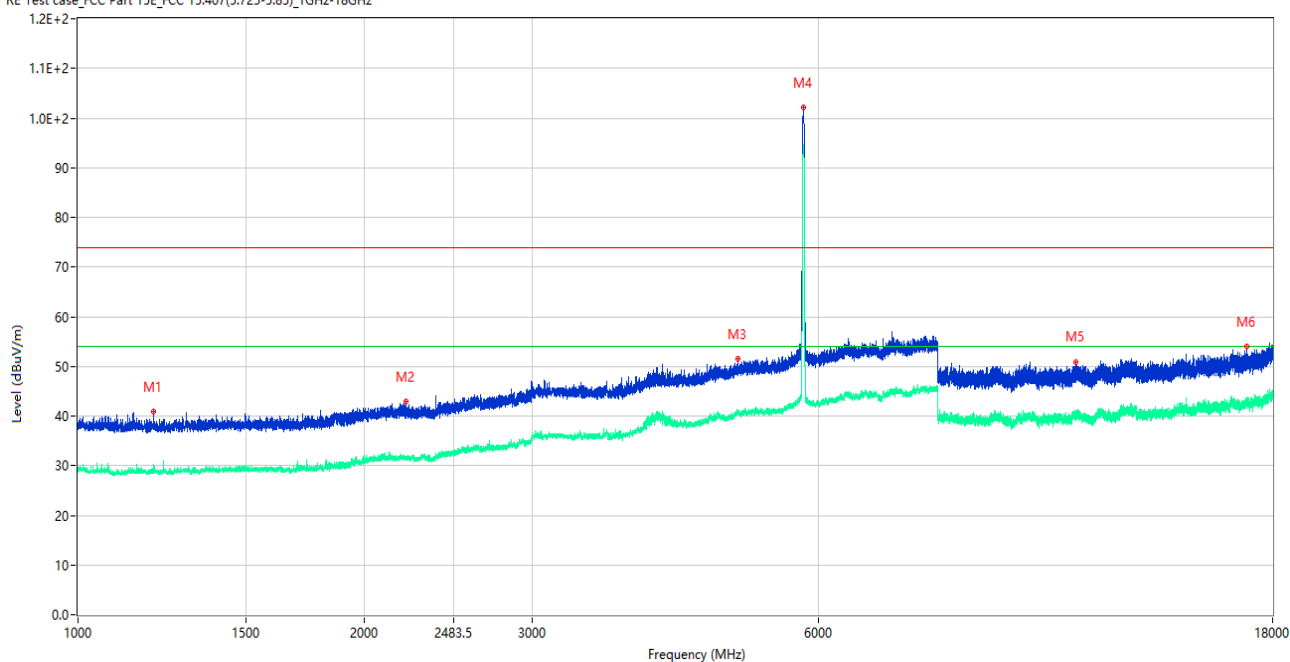
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1056.500	40.68	-14.47	74.0	33.32	Peak	80.00	150	Horizontal	Pass
1**	1056.500	28.64	-14.47	54.0	25.36	AV	80.00	150	Horizontal	Pass
2	2260.750	42.41	-12.00	74.0	31.59	Peak	23.00	150	Horizontal	Pass
2**	2260.750	31.34	-12.00	54.0	22.66	AV	23.00	150	Horizontal	Pass
3	5167.000	52.59	-0.83	74.0	21.41	Peak	0.00	150	Horizontal	Pass
3**	5167.000	40.66	-0.83	54.0	13.34	AV	0.00	150	Horizontal	Pass
4	5783.500	91.34	0.33	74.0	-17.34	Peak	121.00	150	Horizontal	N/A
4**	5783.500	83.13	0.33	54.0	-29.13	AV	121.00	150	Horizontal	N/A
5	9974.813	50.55	-0.52	74.0	23.45	Peak	164.00	150	Horizontal	Pass
5**	9974.813	39.86	-0.52	54.0	14.14	AV	164.00	150	Horizontal	Pass
6	16395.863	53.29	2.05	74.0	20.71	Peak	360.00	150	Horizontal	Pass
6**	16395.863	42.92	2.05	54.0	11.08	AV	360.00	150	Horizontal	Pass

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

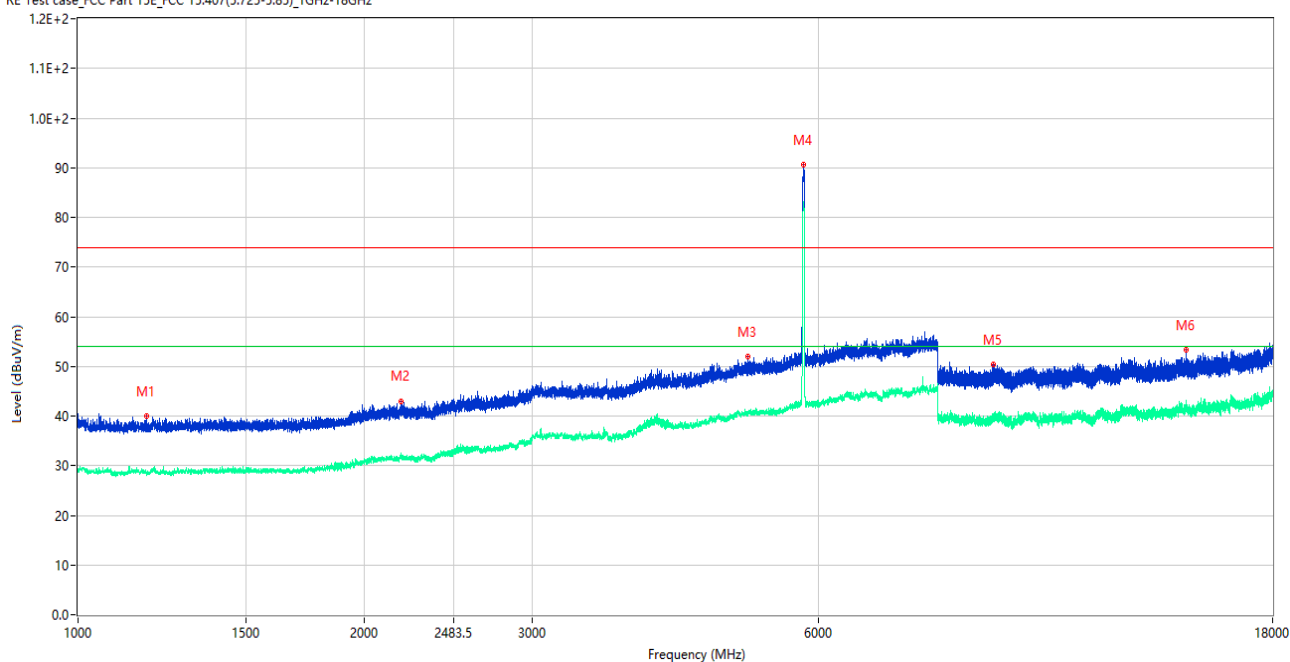
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.000	40.81	-14.83	74.0	33.19	Peak	105.00	150	Vertical	Pass
1**	1200.000	29.33	-14.83	54.0	24.67	AV	105.00	150	Vertical	Pass
2	2213.500	43.04	-12.09	74.0	30.96	Peak	76.00	150	Vertical	Pass
2**	2213.500	31.91	-12.09	54.0	22.09	AV	76.00	150	Vertical	Pass
3	4938.500	51.42	-0.64	74.0	22.58	Peak	0.00	150	Vertical	Pass
3**	4938.500	40.83	-0.64	54.0	13.17	AV	0.00	150	Vertical	Pass
4	5786.000	102.17	0.38	74.0	-28.17	Peak	0.00	150	Vertical	N/A
4**	5786.000	93.89	0.38	54.0	-39.89	AV	0.00	150	Vertical	N/A
5	11169.200	50.93	-1.27	74.0	23.07	Peak	360.00	150	Vertical	Pass
5**	11169.200	39.79	-1.27	54.0	14.21	AV	360.00	150	Vertical	Pass
6	16902.750	53.99	2.40	74.0	20.01	Peak	82.00	150	Vertical	Pass
6**	16902.750	42.45	2.40	54.0	11.55	AV	82.00	150	Vertical	Pass

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

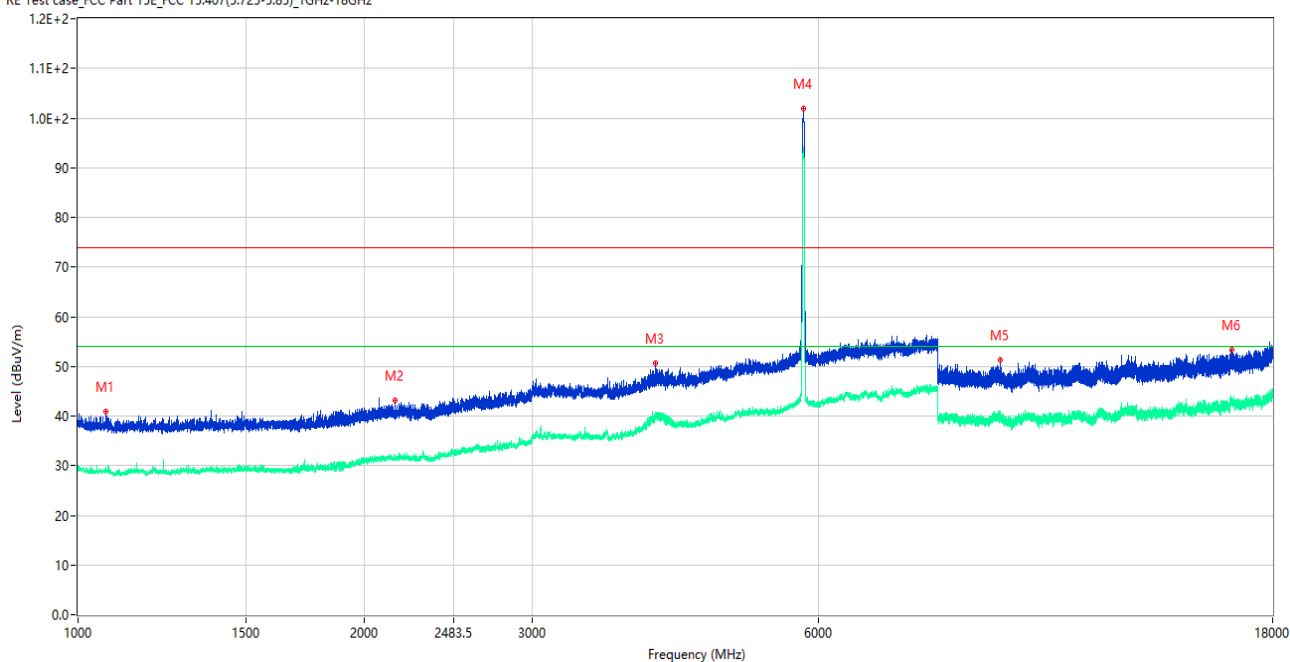
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1179.250	40.08	-14.83	74.0	33.92	Peak	360.00	150	Horizontal	Pass
1**	1179.250	28.07	-14.83	54.0	25.93	AV	360.00	150	Horizontal	Pass
2	2187.250	43.03	-12.02	74.0	30.97	Peak	52.00	150	Horizontal	Pass
2**	2187.250	31.49	-12.02	54.0	22.51	AV	52.00	150	Horizontal	Pass
3	5058.000	52.02	-0.95	74.0	21.98	Peak	0.00	150	Horizontal	Pass
3**	5058.000	40.31	-0.95	54.0	13.69	AV	0.00	150	Horizontal	Pass
4	5783.500	90.70	0.33	74.0	-16.70	Peak	120.00	150	Horizontal	N/A
4**	5783.500	82.96	0.33	54.0	-28.96	AV	120.00	150	Horizontal	N/A
5	9154.725	50.40	-2.33	74.0	23.60	Peak	96.00	150	Horizontal	Pass
5**	9154.725	39.92	-2.33	54.0	14.08	AV	96.00	150	Horizontal	Pass
6	14604.037	53.25	0.67	74.0	20.75	Peak	152.00	150	Horizontal	Pass
6**	14604.037	41.94	0.67	54.0	12.06	AV	152.00	150	Horizontal	Pass

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

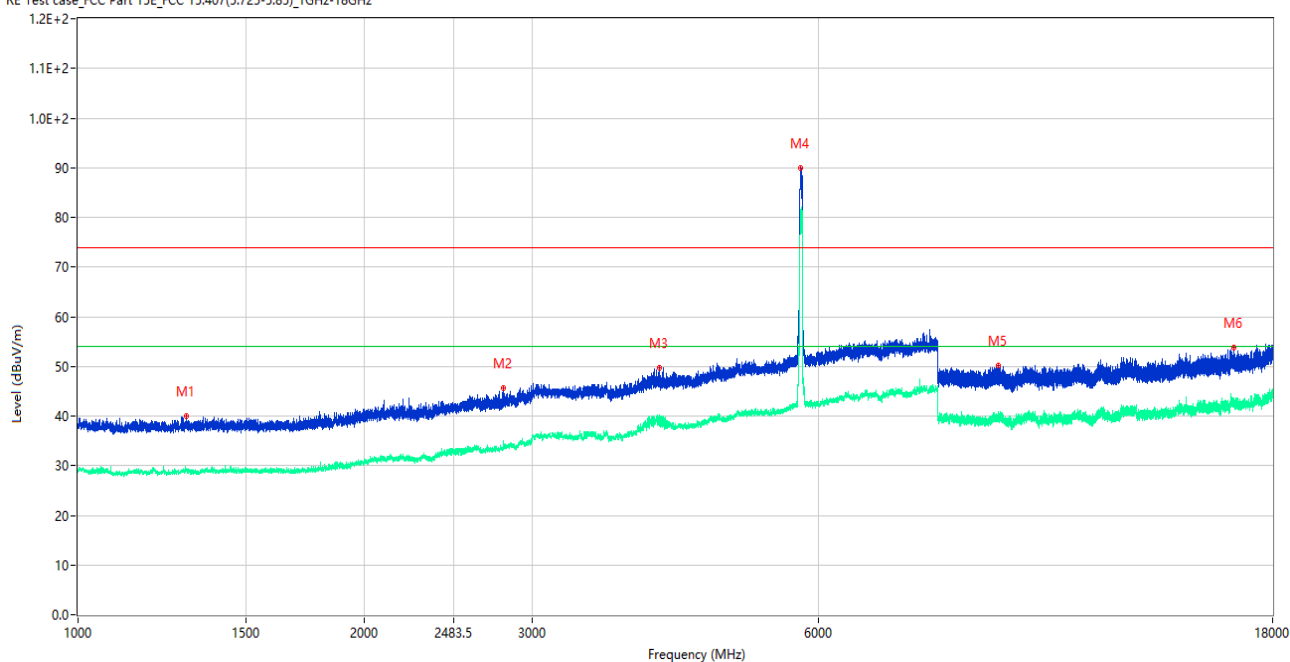
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1069.000	40.92	-14.26	74.0	33.08	Peak	71.00	150	Vertical	Pass
1**	1069.000	29.60	-14.26	54.0	24.40	AV	71.00	150	Vertical	Pass
2	2151.750	43.24	-12.40	74.0	30.76	Peak	190.00	150	Vertical	Pass
2**	2151.750	31.22	-12.40	54.0	22.78	AV	190.00	150	Vertical	Pass
3	4047.500	50.57	-3.12	74.0	23.43	Peak	134.00	150	Vertical	Pass
3**	4047.500	40.48	-3.12	54.0	13.52	AV	134.00	150	Vertical	Pass
4	5783.500	101.98	0.33	74.0	-27.98	Peak	12.00	150	Vertical	N/A
4**	5783.500	93.90	0.33	54.0	-39.90	AV	12.00	150	Vertical	N/A
5	9316.700	51.20	-2.04	74.0	22.80	Peak	0.00	150	Vertical	Pass
5**	9316.700	39.54	-2.04	54.0	14.46	AV	0.00	150	Vertical	Pass
6	16320.263	53.30	1.90	74.0	20.70	Peak	0.00	150	Vertical	Pass
6**	16320.263	42.29	1.90	54.0	11.71	AV	0.00	150	Vertical	Pass

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

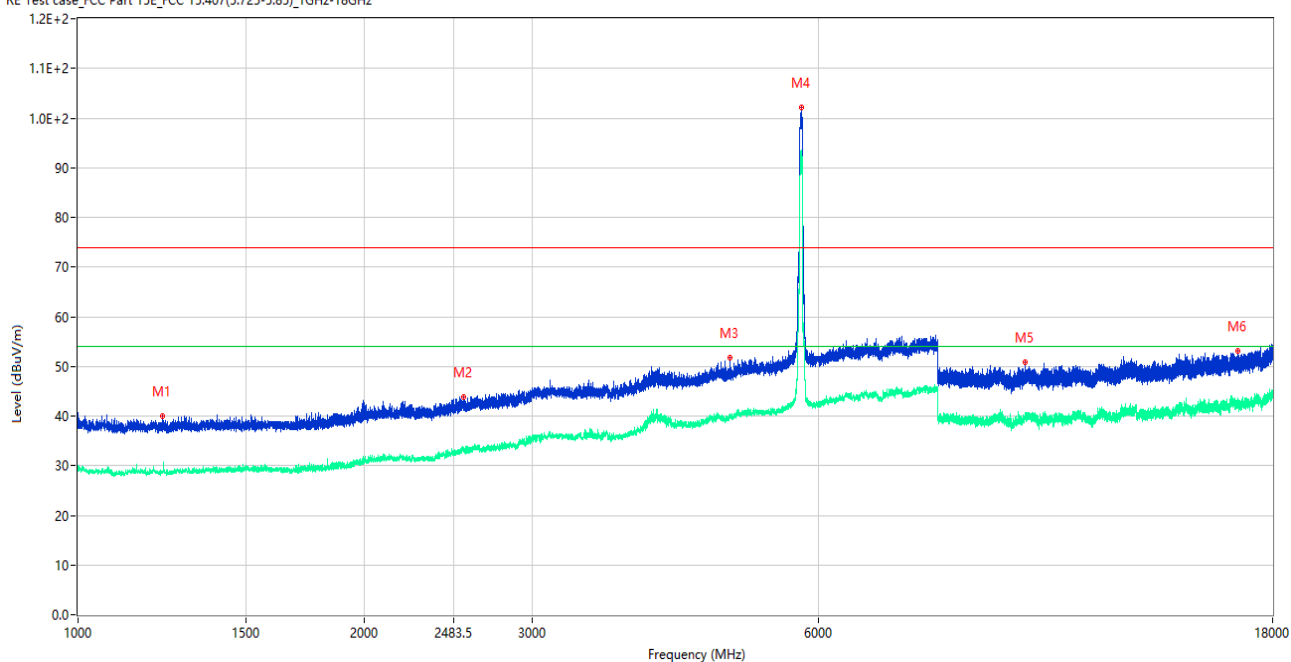
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1299.750	39.96	-14.65	74.0	34.04	Peak	64.00	150	Horizontal	Pass
1**	1299.750	29.19	-14.65	54.0	24.81	AV	64.00	150	Horizontal	Pass
2	2796.500	45.62	-8.78	74.0	28.38	Peak	219.00	150	Horizontal	Pass
2**	2796.500	33.62	-8.78	54.0	20.38	AV	219.00	150	Horizontal	Pass
3	4083.000	49.75	-3.83	74.0	24.25	Peak	148.00	150	Horizontal	Pass
3**	4083.000	40.08	-3.83	54.0	13.92	AV	148.00	150	Horizontal	Pass
4	5750.500	89.87	-0.01	74.0	-15.87	Peak	118.00	150	Horizontal	N/A
4**	5750.500	81.31	-0.01	54.0	-27.31	AV	118.00	150	Horizontal	N/A
5	9266.350	50.17	-1.93	74.0	23.83	Peak	222.00	150	Horizontal	Pass
5**	9266.350	40.15	-1.93	54.0	13.85	AV	222.00	150	Horizontal	Pass
6	16376.438	53.67	1.85	74.0	20.33	Peak	241.00	150	Horizontal	Pass
6**	16376.438	42.69	1.85	54.0	11.31	AV	241.00	150	Horizontal	Pass

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

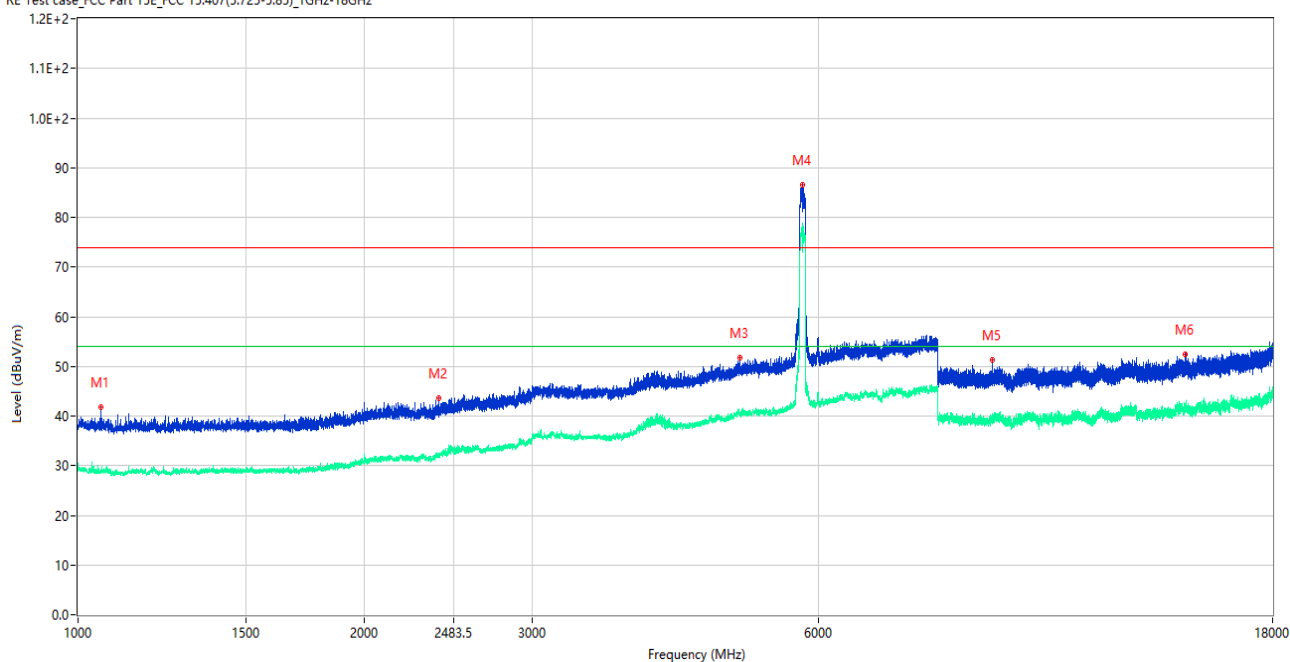
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1226.000	39.89	-15.03	74.0	34.11	Peak	334.00	150	Vertical	Pass
1**	1226.000	28.49	-15.03	54.0	25.51	AV	334.00	150	Vertical	Pass
2	2541.500	43.87	-9.94	74.0	30.13	Peak	311.00	150	Vertical	Pass
2**	2541.500	33.26	-9.94	54.0	20.74	AV	311.00	150	Vertical	Pass
3	4843.500	51.76	-1.11	74.0	22.24	Peak	108.00	150	Vertical	Pass
3**	4843.500	39.61	-1.11	54.0	14.39	AV	108.00	150	Vertical	Pass
4	5757.500	102.13	0.04	74.0	-28.13	Peak	17.00	150	Vertical	N/A
4**	5757.500	93.41	0.04	54.0	-39.41	AV	17.00	150	Vertical	N/A
5	9890.025	50.80	-1.09	74.0	23.20	Peak	0.00	150	Vertical	Pass
5**	9890.025	39.93	-1.09	54.0	14.07	AV	0.00	150	Vertical	Pass
6	16558.875	53.07	2.11	74.0	20.93	Peak	106.00	150	Vertical	Pass
6**	16558.875	41.95	2.11	54.0	12.05	AV	106.00	150	Vertical	Pass

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

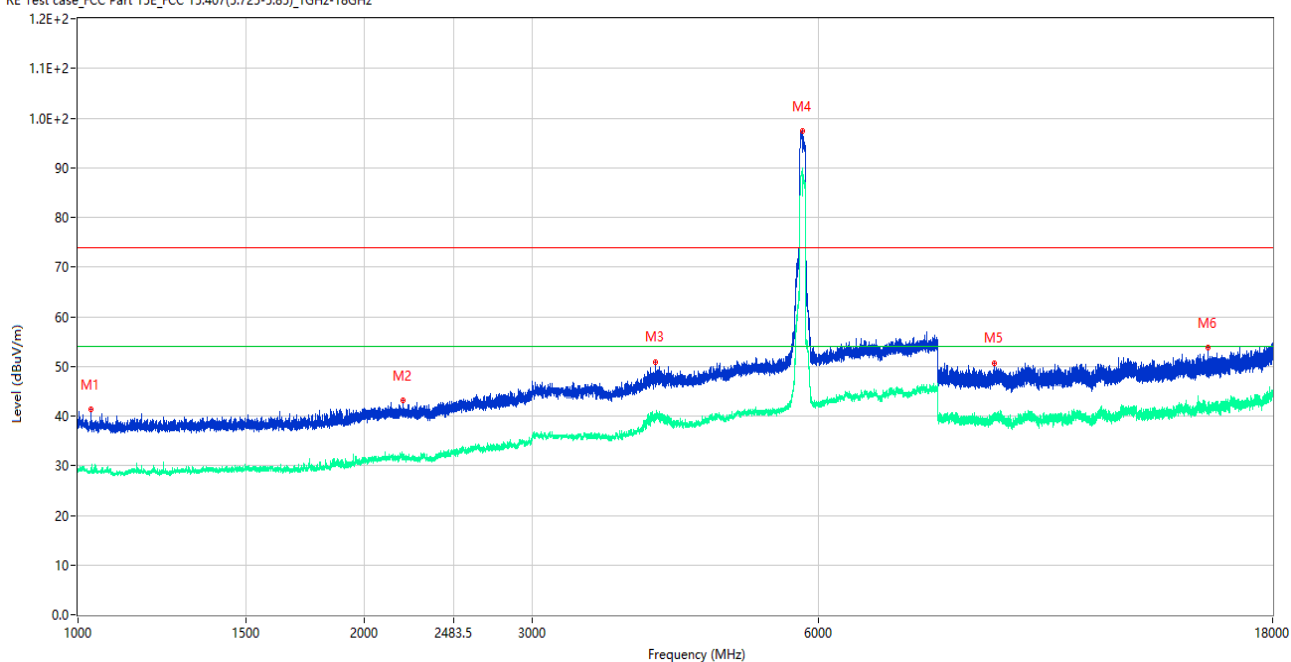
RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1058.000	41.70	-14.46	74.0	32.30	Peak	198.00	150	Horizontal	Pass
1**	1058.000	28.90	-14.46	54.0	25.10	AV	198.00	150	Horizontal	Pass
2	2395.750	43.53	-11.78	74.0	30.47	Peak	176.00	150	Horizontal	Pass
2**	2395.750	32.30	-11.78	54.0	21.70	AV	176.00	150	Horizontal	Pass
3	4962.500	51.66	-0.90	74.0	22.34	Peak	360.00	150	Horizontal	Pass
3**	4962.500	40.43	-0.90	54.0	13.57	AV	360.00	150	Horizontal	Pass
4	5769.500	86.51	0.38	74.0	-12.51	Peak	114.00	150	Horizontal	N/A
4**	5769.500	78.52	0.38	54.0	-24.52	AV	114.00	150	Horizontal	N/A
5	9145.700	51.19	-2.48	74.0	22.81	Peak	101.00	150	Horizontal	Pass
5**	9145.700	40.07	-2.48	54.0	13.93	AV	101.00	150	Horizontal	Pass
6	14569.650	52.39	-0.00	74.0	21.61	Peak	345.00	150	Horizontal	Pass
6**	14569.650	40.84	-0.00	54.0	13.16	AV	345.00	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	1032.500	41.28	-14.49	74.0	32.72	Peak	86.00	150	Vertical	Pass
1**	1032.500	28.96	-14.49	54.0	25.04	AV	86.00	150	Vertical	Pass
2	2196.750	43.26	-12.02	74.0	30.74	Peak	123.00	150	Vertical	Pass
2**	2196.750	31.48	-12.02	54.0	22.52	AV	123.00	150	Vertical	Pass
3	4047.500	50.94	-3.12	74.0	23.06	Peak	127.00	150	Vertical	Pass
3**	4047.500	39.67	-3.12	54.0	14.33	AV	127.00	150	Vertical	Pass
4	5766.000	97.36	0.29	74.0	-23.36	Peak	6.00	150	Vertical	N/A
4**	5766.000	88.82	0.29	54.0	-34.82	AV	6.00	150	Vertical	N/A
5	9179.900	50.63	-1.96	74.0	23.37	Peak	0.00	150	Vertical	Pass
5**	9179.900	39.95	-1.96	54.0	14.05	AV	0.00	150	Vertical	Pass
6	15388.125	53.71	1.18	74.0	20.29	Peak	66.00	150	Vertical	Pass
6**	15388.125	41.89	1.18	54.0	12.11	AV	66.00	150	Vertical	Pass

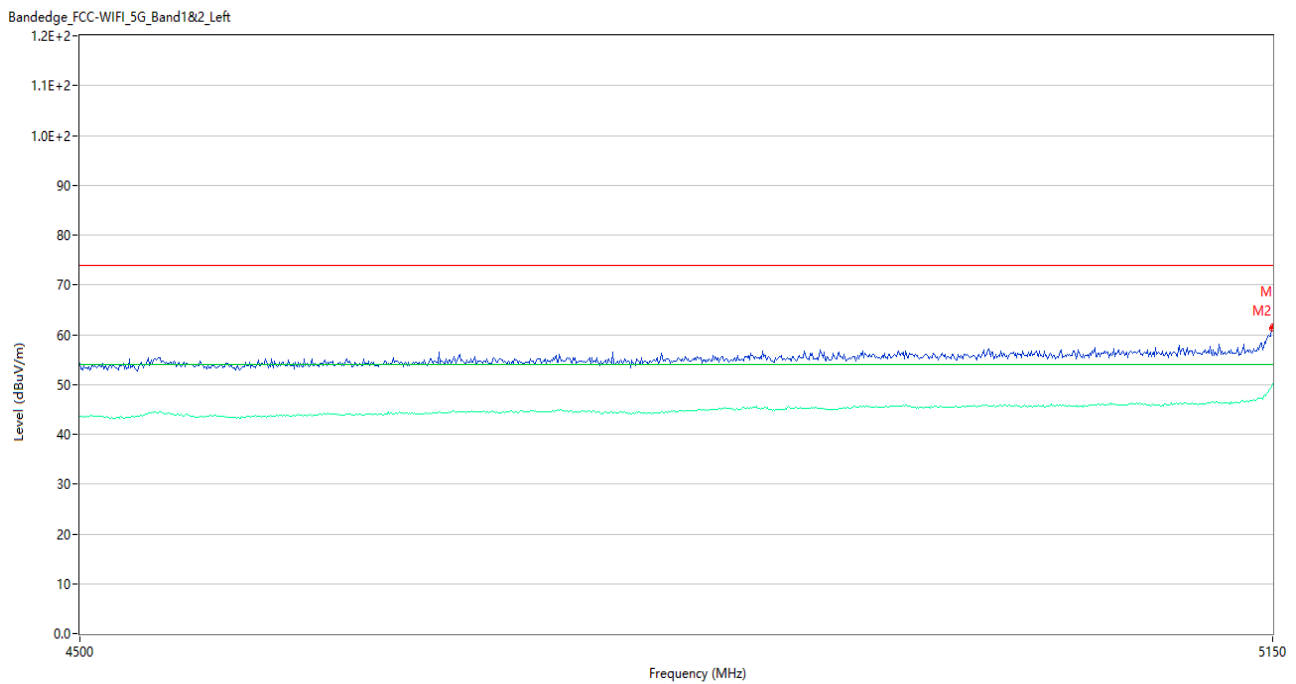
A.6.2 Band Edge (Restricted-band)

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

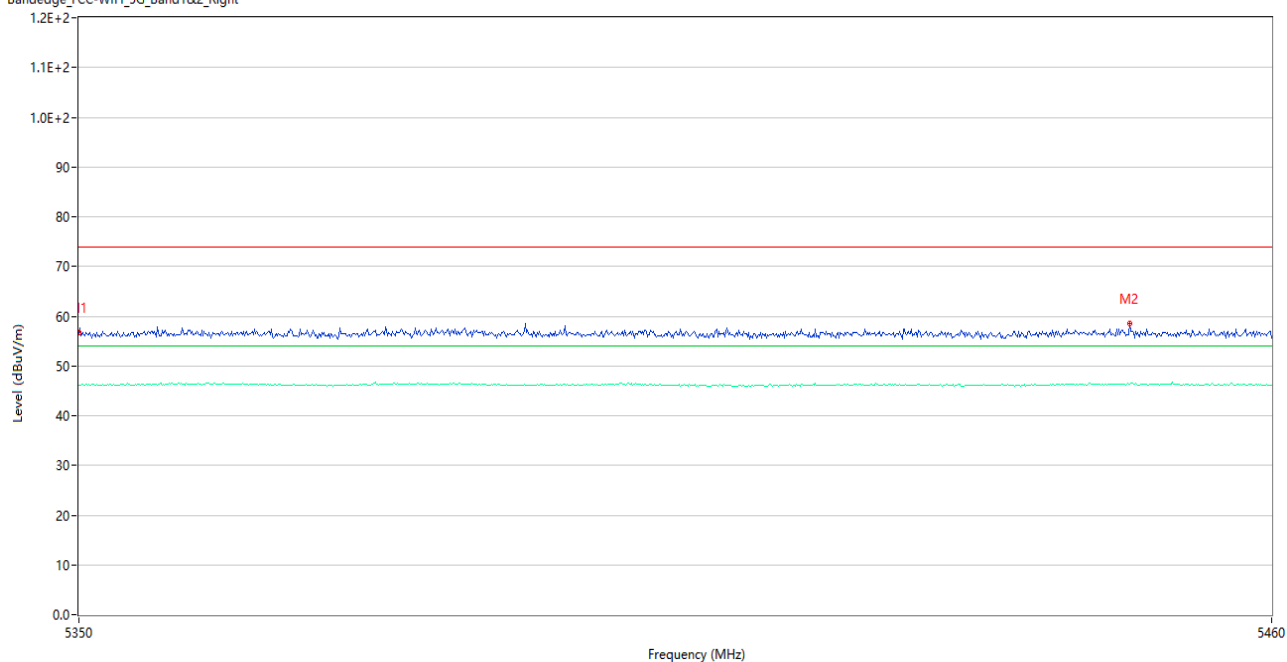
U-NII-1 11a CH36



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	61.59	5.21	74.0	12.41	Peak	0.00	150	Vertical	Pass
1**	5150.000	50.11	5.21	54.0	3.89	AV	0.00	150	Vertical	Pass
2	5149.350	61.35	5.21	74.0	12.65	Peak	0.00	150	Vertical	Pass
2**	5149.350	49.46	5.21	54.0	4.54	AV	0.00	150	Vertical	Pass

U-NII-1 11a CH48

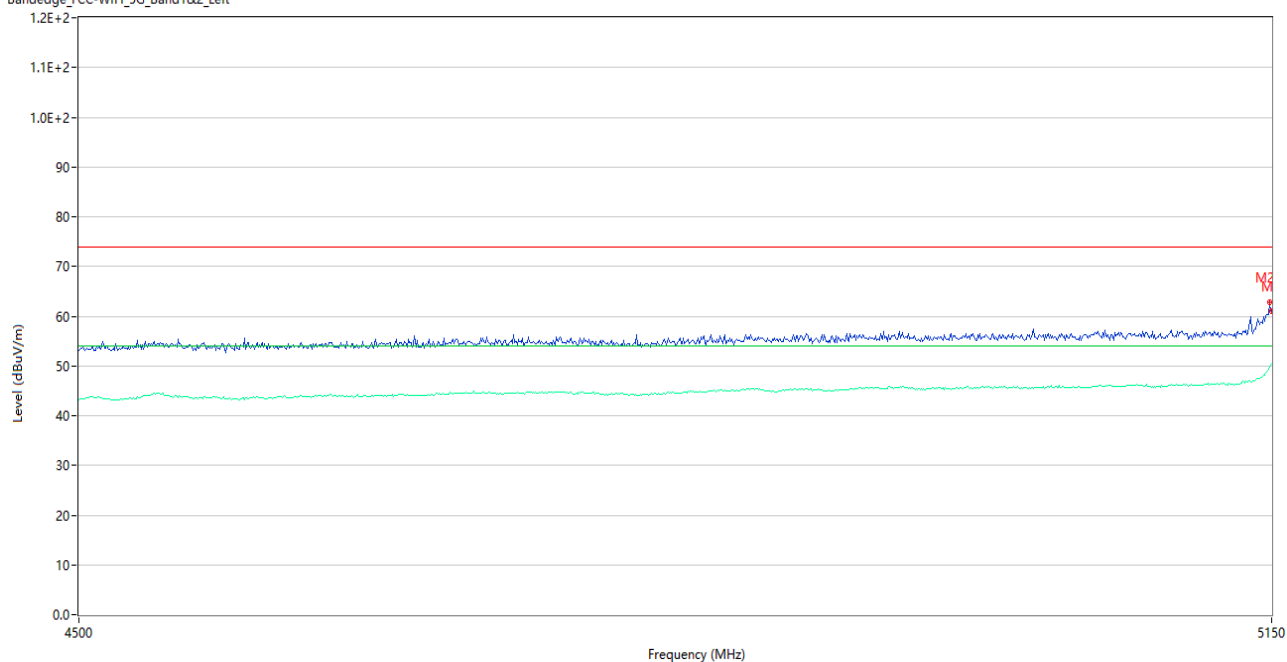
Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.67	5.40	74.0	17.33	Peak	267.00	150	Vertical	Pass
1**	5350.000	46.16	5.40	54.0	7.84	AV	267.00	150	Vertical	Pass
2	5446.800	58.45	5.61	74.0	15.55	Peak	203.00	150	Vertical	Pass
2**	5446.800	46.38	5.61	54.0	7.62	AV	203.00	150	Vertical	Pass

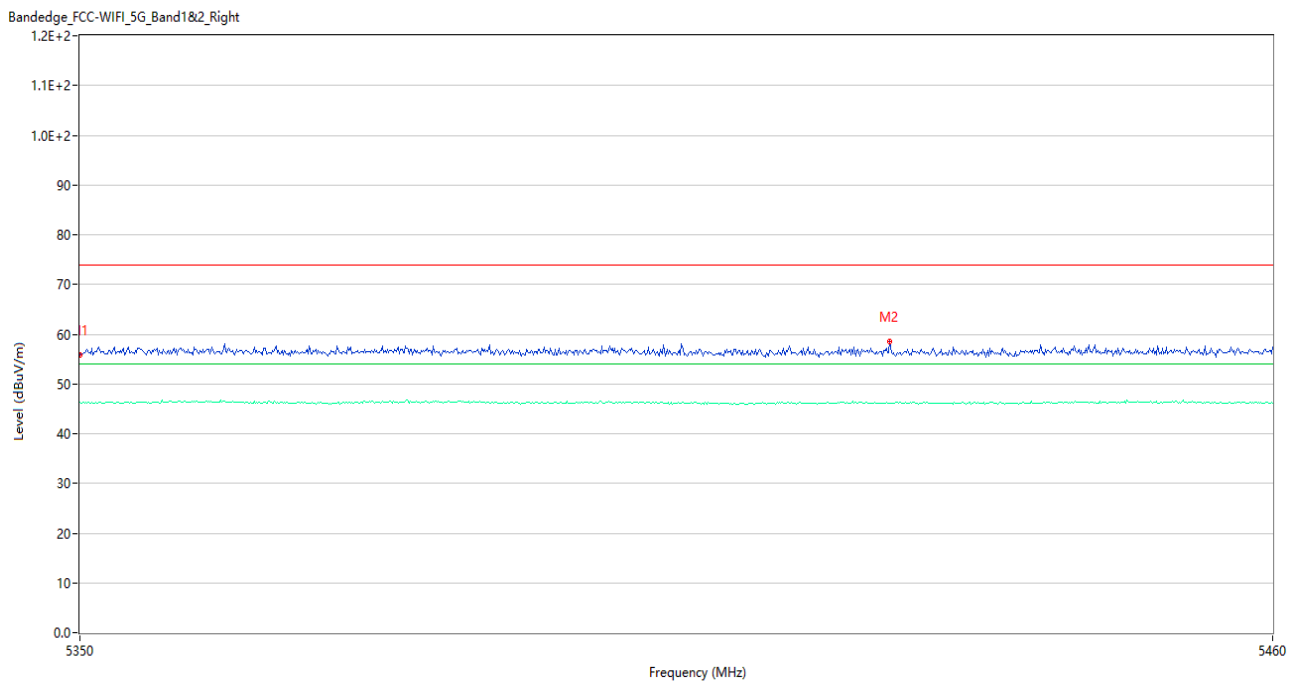
U-NII-1 11n20 CH36

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	60.91	5.21	74.0	13.09	Peak	360.00	150	Vertical	Pass
1**	5150.000	50.33	5.21	54.0	3.67	AV	360.00	150	Vertical	Pass
2	5148.700	62.88	5.23	74.0	11.12	Peak	343.00	150	Vertical	Pass
2**	5148.700	49.82	5.23	54.0	4.18	AV	343.00	150	Vertical	Pass

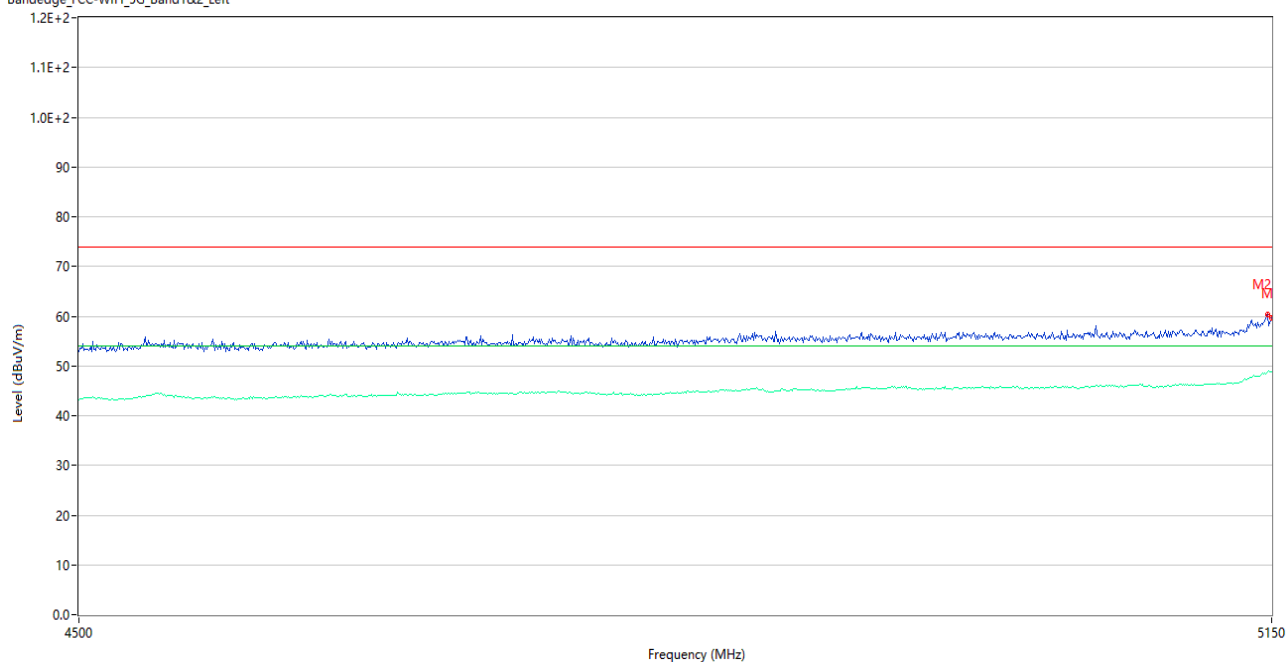
U-NII-1 11n20 CH48



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.86	5.40	74.0	18.14	Peak	292.00	150	Vertical	Pass
1**	5350.000	46.36	5.40	54.0	7.64	AV	292.00	150	Vertical	Pass
2	5424.470	58.46	5.33	74.0	15.54	Peak	170.00	150	Vertical	Pass
2**	5424.470	46.15	5.33	54.0	7.85	AV	170.00	150	Vertical	Pass

U-NII-1 11n40 CH38

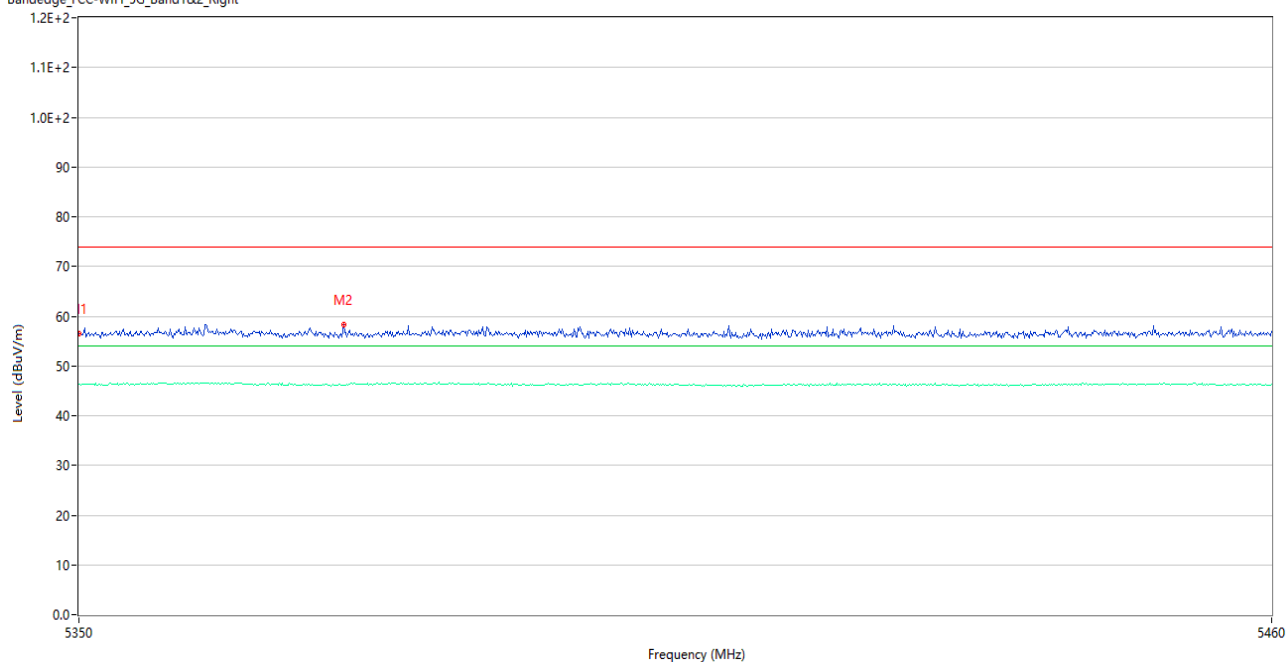
Bandedge_FCC-WIFI_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	59.64	5.21	74.0	14.36	Peak	359.95	150	Vertical	Pass
1**	5150.000	48.75	5.21	54.0	5.25	AV	359.95	150	Vertical	Pass
2	5147.400	60.27	5.29	74.0	13.73	Peak	360.00	150	Vertical	Pass
2**	5147.400	48.79	5.29	54.0	5.21	AV	360.00	150	Vertical	Pass

U-NII-1 11n40 CH46

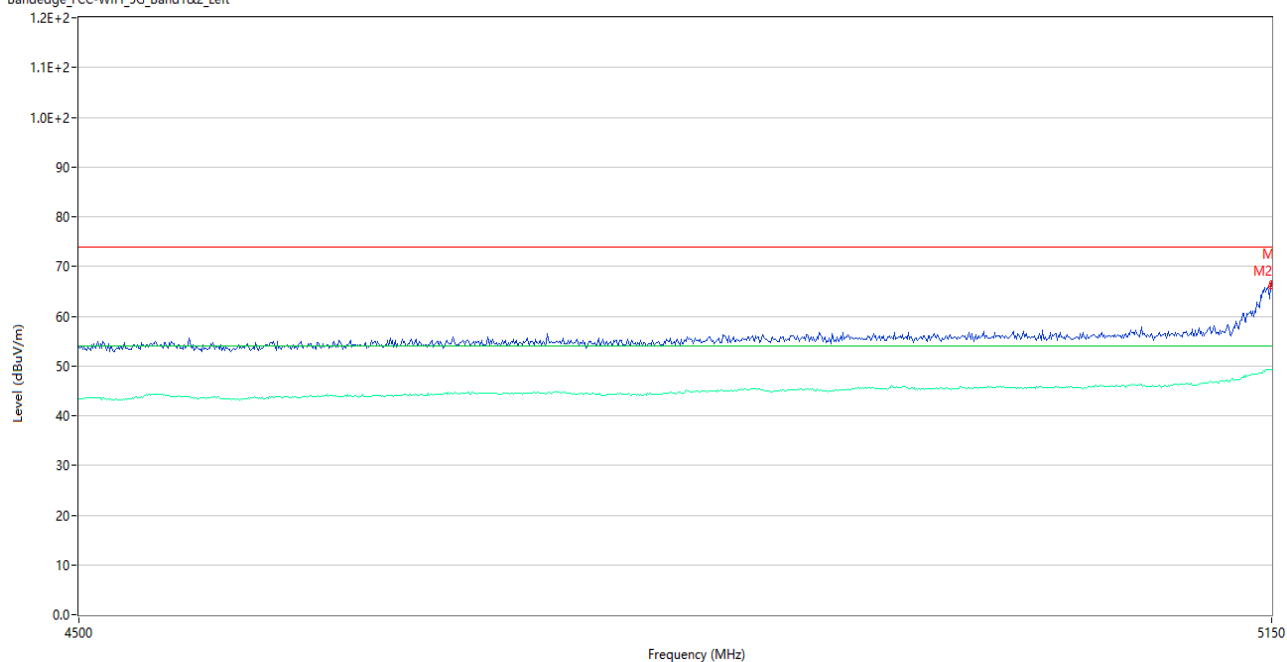
Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.50	5.40	74.0	17.50	Peak	84.00	150	Vertical	Pass
1**	5350.000	46.41	5.40	54.0	7.59	AV	84.00	150	Vertical	Pass
2	5374.200	58.35	5.45	74.0	15.65	Peak	360.00	150	Vertical	Pass
2**	5374.200	46.20	5.45	54.0	7.80	AV	360.00	150	Vertical	Pass

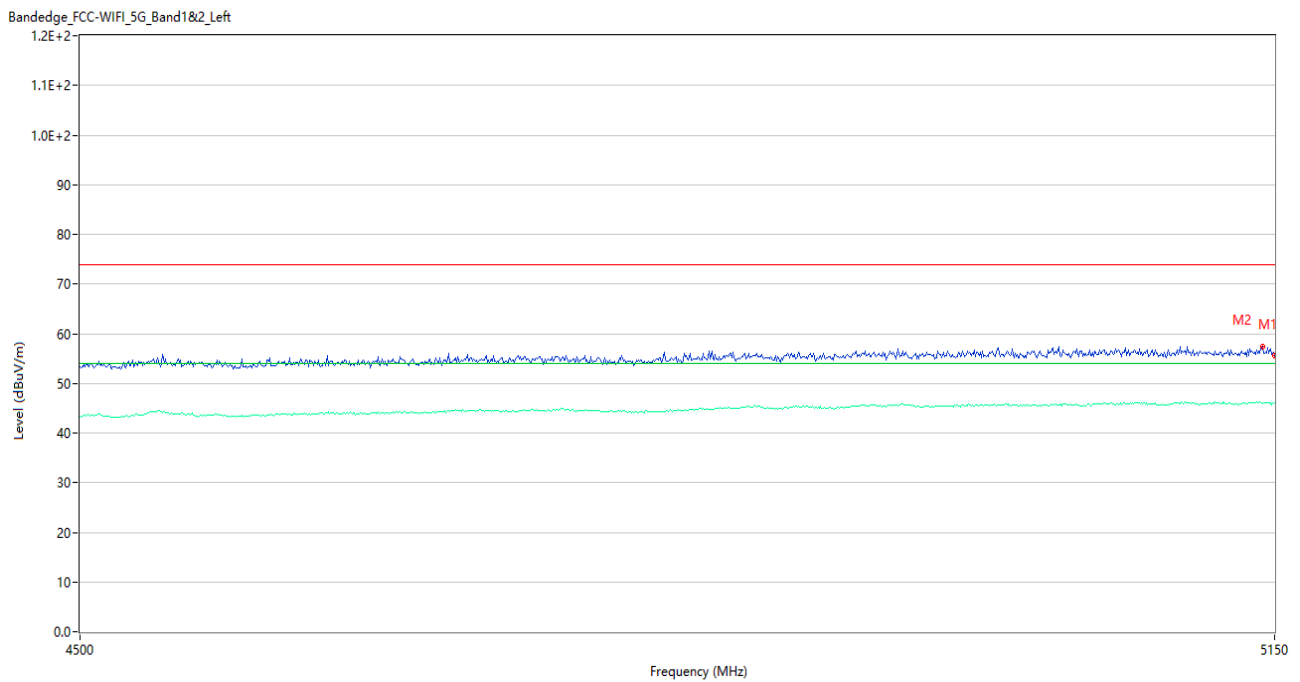
U-NII-1 11ac80 CH42

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	66.60	5.21	74.0	7.40	Peak	0.07	150	Vertical	Pass
1**	5150.000	49.36	5.21	54.0	4.64	AV	0.07	150	Vertical	Pass
2	5149.350	65.93	5.21	74.0	8.07	Peak	340.00	150	Vertical	Pass
2**	5149.350	49.16	5.21	54.0	4.84	AV	340.00	150	Vertical	Pass

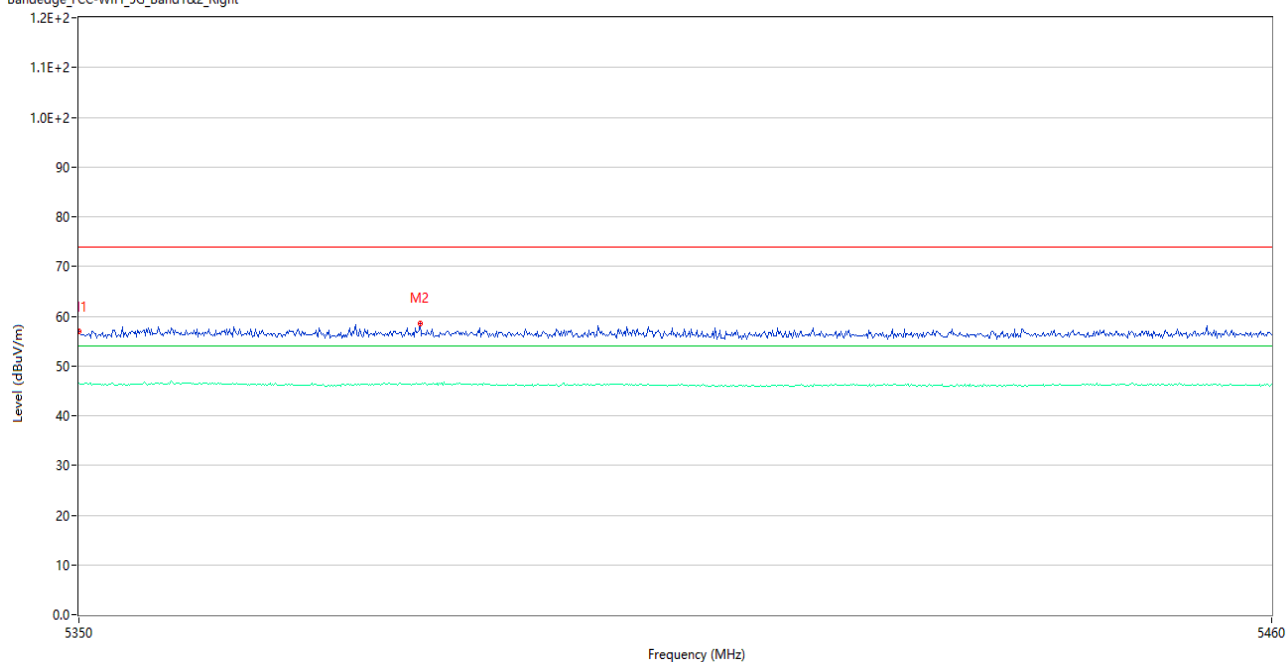
U-NII-2A 11a CH52



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.68	5.21	74.0	18.32	Peak	14.03	150	Vertical	Pass
1**	5150.000	46.00	5.21	54.0	8.00	AV	14.03	150	Vertical	Pass
2	5142.850	57.38	5.47	74.0	16.62	Peak	360.00	150	Vertical	Pass
2**	5142.850	45.98	5.47	54.0	8.02	AV	360.00	150	Vertical	Pass

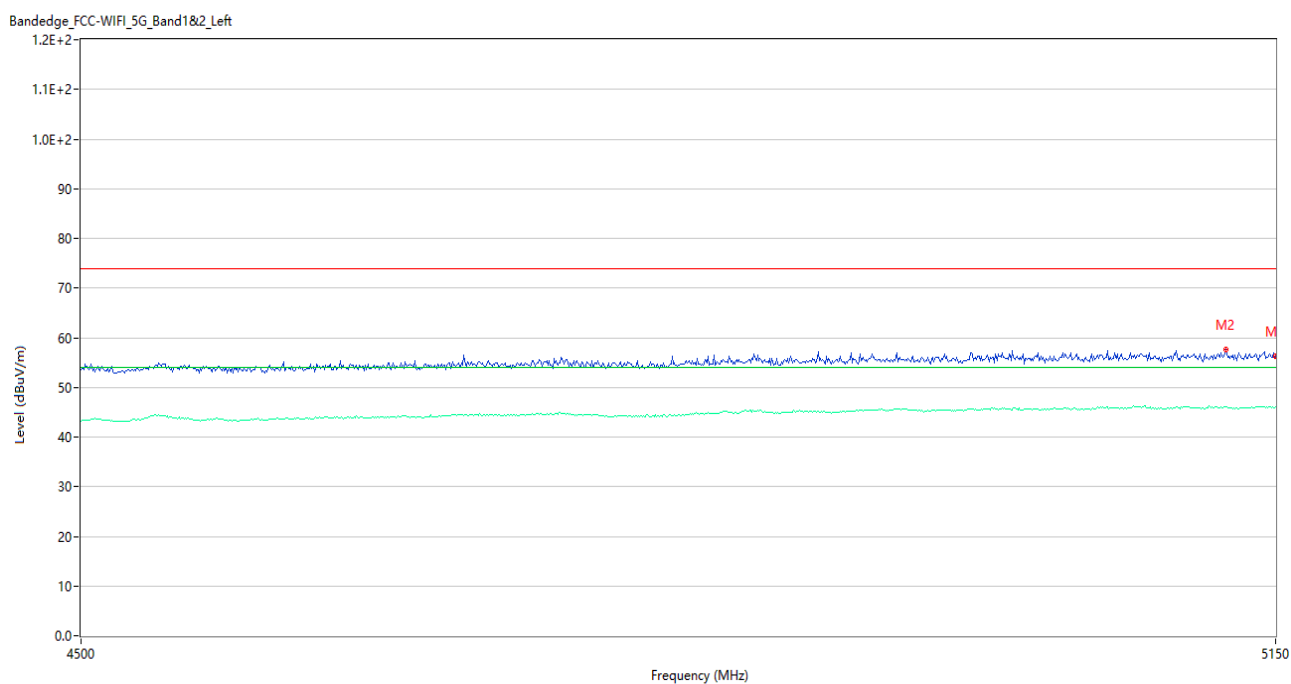
U-NII-2A 11a CH64

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	57.00	5.40	74.0	17.00	Peak	316.00	150	Vertical	Pass
1**	5350.000	46.45	5.40	54.0	7.55	AV	316.00	150	Vertical	Pass
2	5381.240	58.63	5.69	74.0	15.37	Peak	59.00	150	Vertical	Pass
2**	5381.240	46.42	5.69	54.0	7.58	AV	59.00	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	56.17	5.21	74.0	17.83	Peak	5.01	150	Vertical	Pass
1**	5150.000	46.10	5.21	54.0	7.90	AV	5.01	150	Vertical	Pass
2	5121.400	57.62	5.17	74.0	16.38	Peak	360.00	150	Vertical	Pass
2**	5121.400	46.02	5.17	54.0	7.98	AV	360.00	150	Vertical	Pass

U-NII-2A 11ac20 CH64

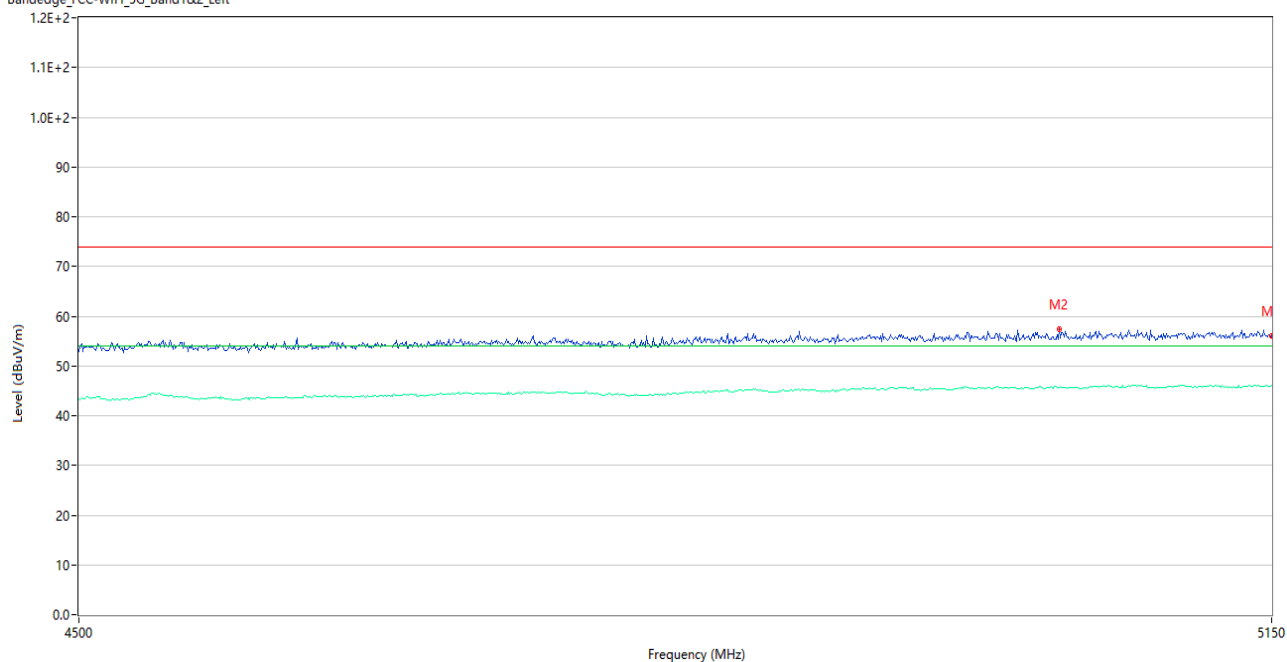
Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	62.17	5.40	74.0	11.83	Peak	121.00	150	Vertical	Pass
1**	5350.000	50.58	5.40	54.0	3.42	AV	121.00	150	Vertical	Pass
2	5351.210	62.17	5.43	74.0	11.83	Peak	337.00	150	Vertical	Pass
2**	5351.210	50.22	5.43	54.0	3.78	AV	337.00	150	Vertical	Pass
3	5350.110	60.29	5.40	74.0	13.71	Peak	141.00	150	Vertical	Pass
3**	5350.110	50.60	5.40	54.0	3.40	AV	141.00	150	Vertical	Pass

U-NII-2A 11ac40 CH54

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	55.98	5.21	74.0	18.02	Peak	306.94	150	Horizontal	Pass
1**	5150.000	46.01	5.21	54.0	7.99	AV	306.94	150	Horizontal	Pass
2	5027.800	57.32	4.97	74.0	16.68	Peak	0.00	150	Horizontal	Pass
2**	5027.800	45.65	4.97	54.0	8.35	AV	0.00	150	Horizontal	Pass

U-NII-2A 11ac40 CH62

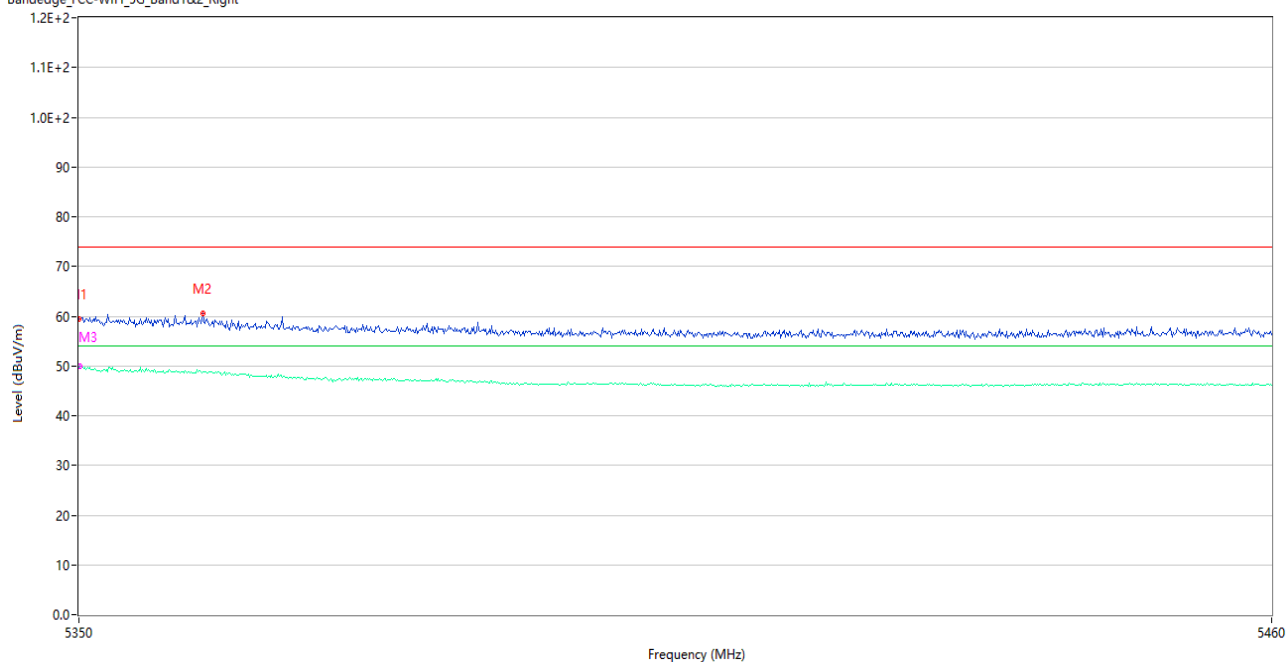
Bandedge_FCC-WIFI_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	60.76	5.40	74.0	13.24	Peak	123.00	150	Vertical	Pass
1**	5350.000	50.32	5.40	54.0	3.68	AV	123.00	150	Vertical	Pass
2	5354.730	60.31	5.53	74.0	13.69	Peak	166.00	150	Vertical	Pass
2**	5354.730	48.48	5.53	54.0	5.52	AV	166.00	150	Vertical	Pass
3	5350.550	58.85	5.42	74.0	15.15	Peak	295.00	150	Vertical	Pass
3**	5350.550	50.33	5.42	54.0	3.67	AV	295.00	150	Vertical	Pass

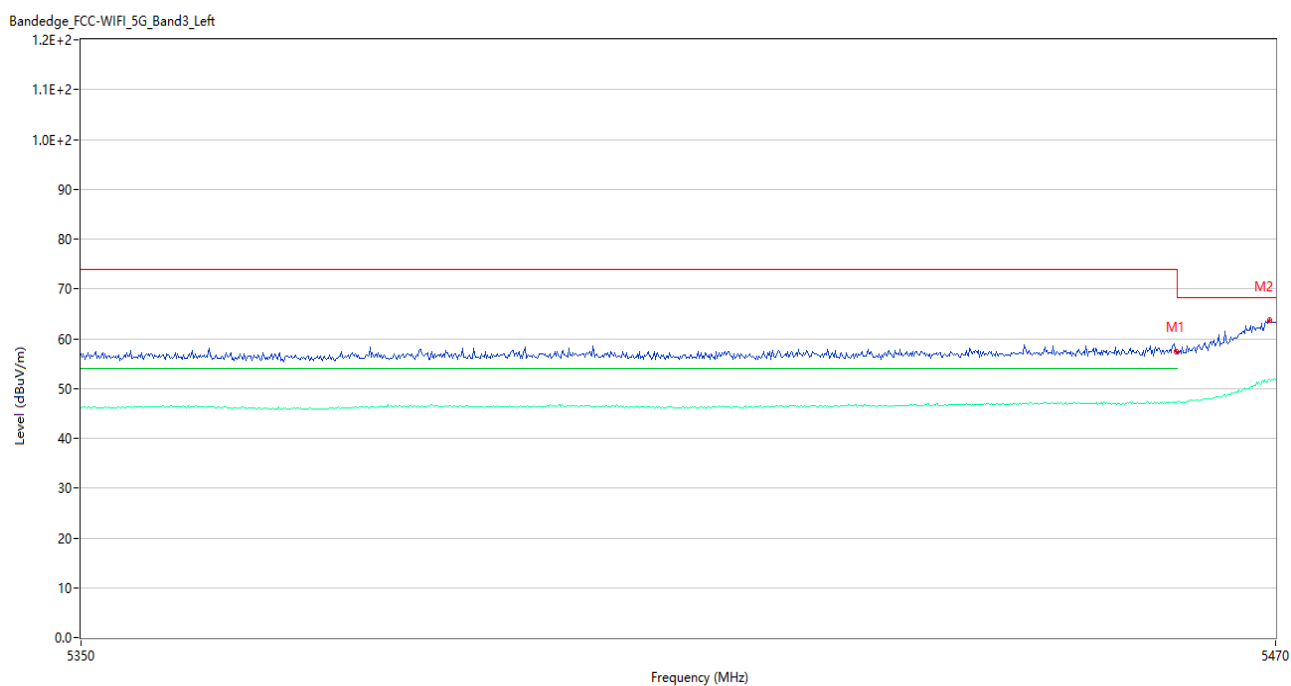
U-NII-2A 11ac80 CH58

Bandedge_FCC-WIFI_5G_Band1&2_Right



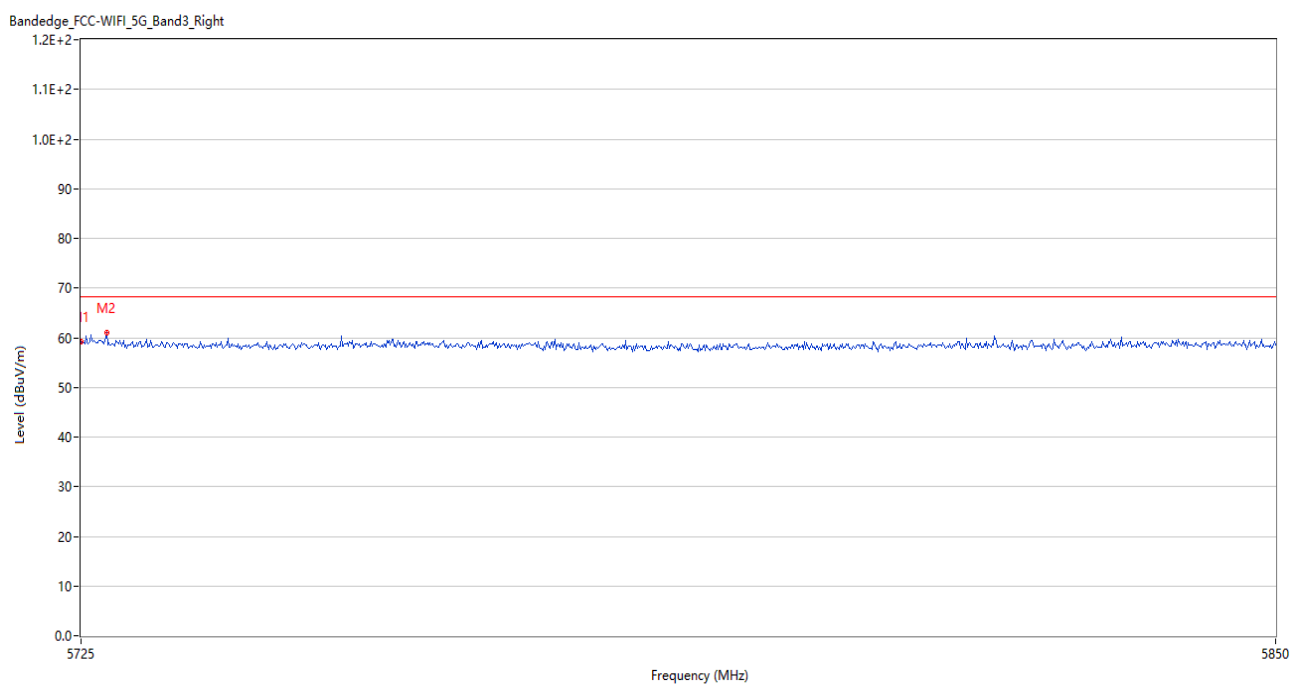
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	59.46	5.40	74.0	14.54	Peak	338.00	150	Vertical	Pass
1**	5350.000	49.46	5.40	54.0	4.54	AV	338.00	150	Vertical	Pass
2	5361.330	60.63	5.71	74.0	13.37	Peak	165.00	150	Vertical	Pass
2**	5361.330	48.89	5.71	54.0	5.11	AV	165.00	150	Vertical	Pass
3	5350.110	59.86	5.40	74.0	14.14	Peak	338.00	150	Vertical	Pass
3**	5350.110	49.98	5.40	54.0	4.02	AV	338.00	150	Vertical	Pass

U-NII-2C 11a CH100



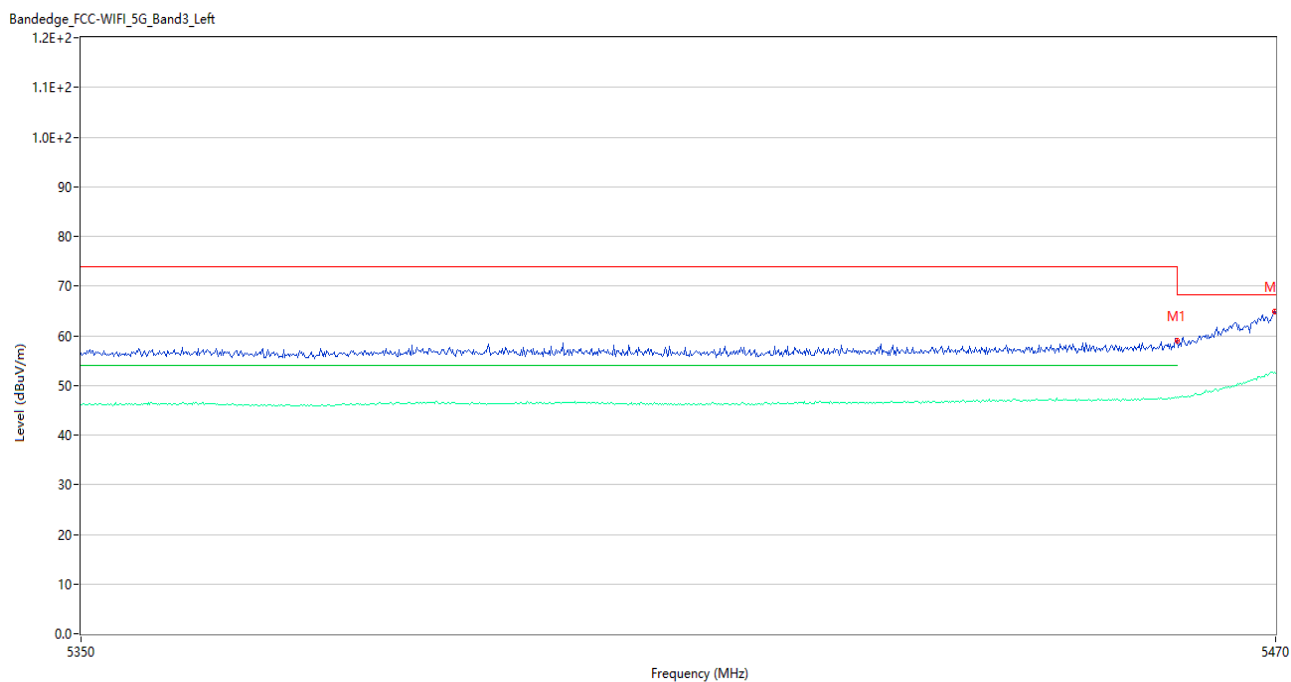
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	57.30	5.38	68.2	10.90	Peak	360.00	150	Vertical	Pass
1**	5460.000	47.19	5.38	54.0	6.81	AV	360.00	150	Vertical	Pass
2	5469.400	63.69	5.80	68.2	4.51	Peak	127.00	150	Vertical	Pass
2**	5469.400	51.64	5.80	--	-51.64	AV	127.00	150	Vertical	N/A

U-NII-2C 11a CH140



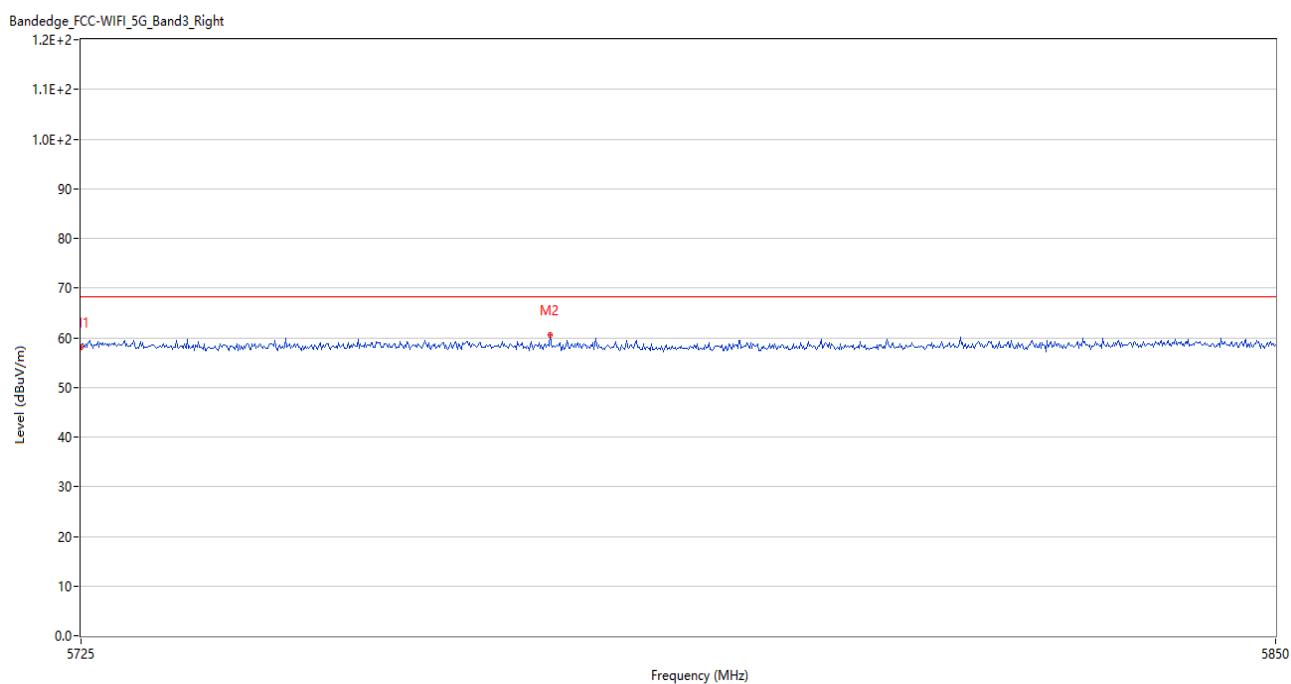
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	59.18	6.57	68.2	9.02	Peak	360.00	150	Vertical	Pass
2	5727.625	61.00	6.50	68.2	7.20	Peak	2.00	150	Vertical	Pass

U-NII-2C 11n20 CH100



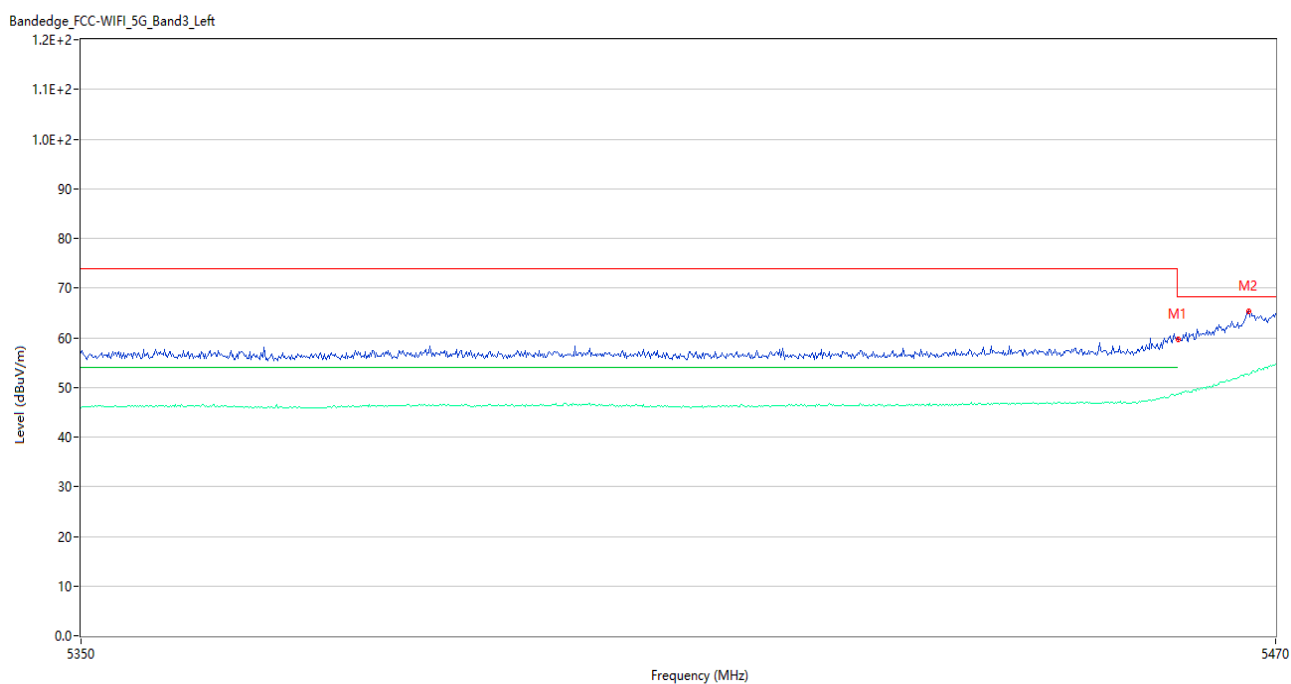
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	58.83	5.38	68.2	9.37	Peak	360.00	150	Vertical	Pass
1**	5460.000	47.62	5.38	54.0	6.38	AV	360.00	150	Vertical	Pass
2	5469.880	64.82	5.80	68.2	3.38	Peak	355.00	150	Vertical	Pass
2**	5469.880	52.16	5.80	--	-52.16	AV	355.00	150	Vertical	N/A

U-NII-2C 11n20 CH140



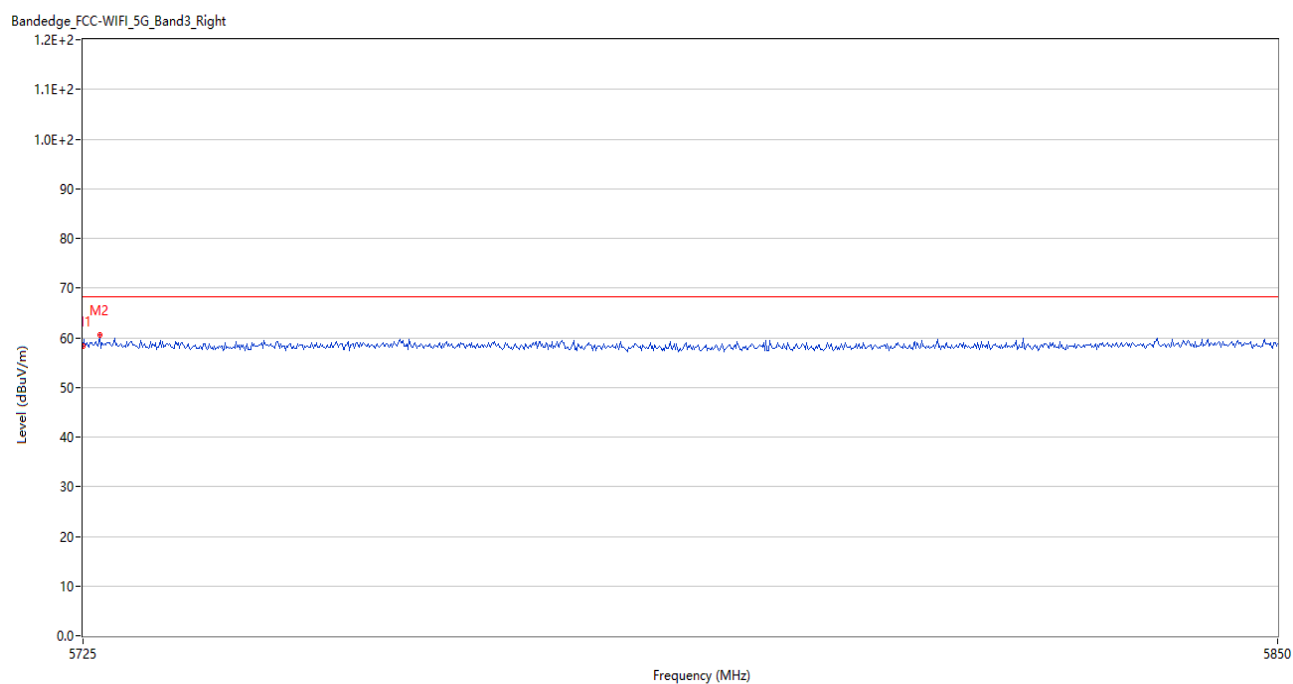
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	57.93	6.57	68.2	10.27	Peak	338.00	150	Horizontal	Pass
2	5773.750	60.48	6.85	68.2	7.72	Peak	243.00	150	Horizontal	Pass

U-NII-2C 11n40 CH102



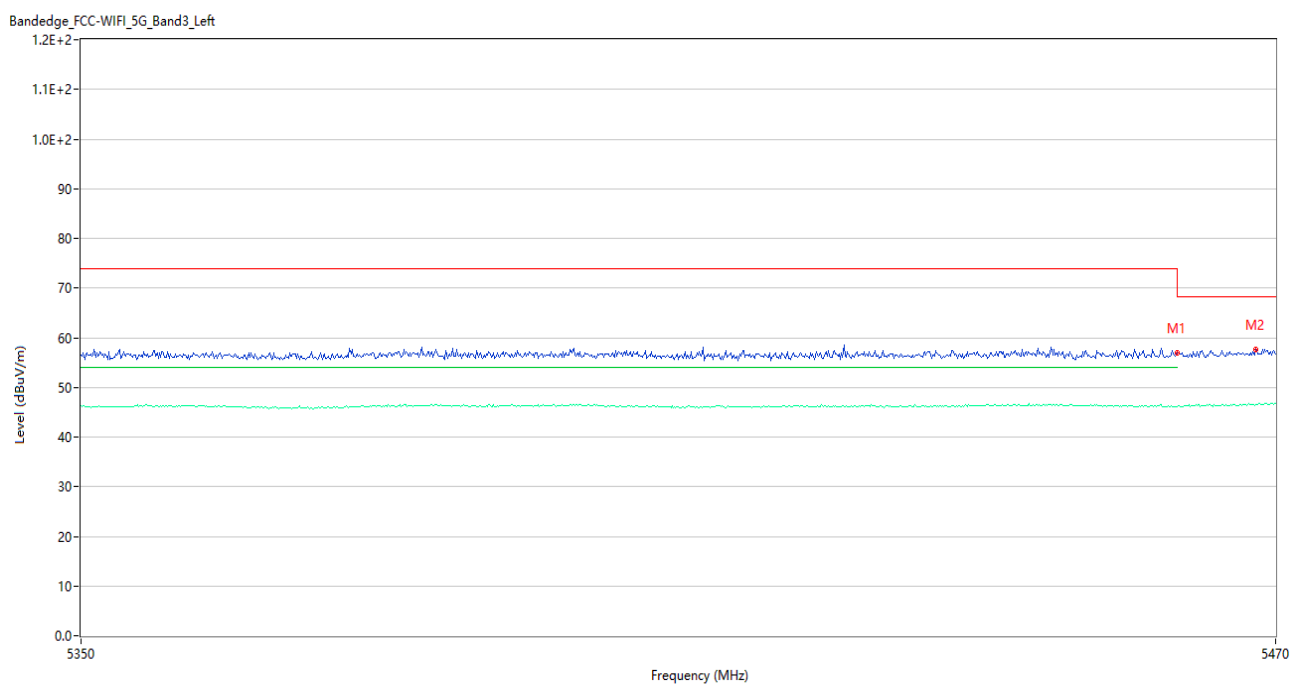
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	59.53	5.38	68.2	8.67	Peak	298.07	150	Vertical	Pass
1**	5460.000	48.49	5.38	54.0	5.51	AV	298.07	150	Vertical	Pass
2	5467.240	64.97	5.66	68.2	3.23	Peak	354.00	150	Vertical	Pass
2**	5467.240	52.38	5.66	--	-52.38	AV	354.00	150	Vertical	N/A

U-NII-2C 11n40 CH134



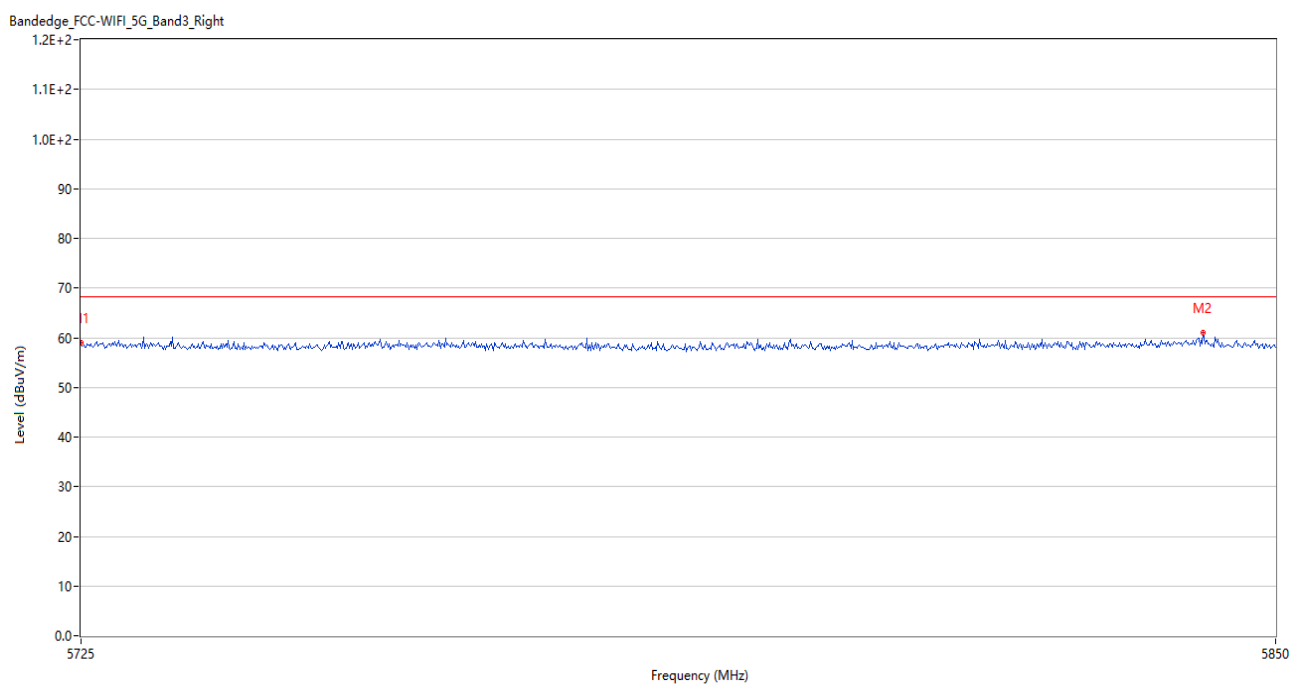
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	58.33	6.57	68.2	9.87	Peak	126.00	150	Horizontal	Pass
2	5726.750	60.61	6.53	68.2	7.59	Peak	87.00	150	Horizontal	Pass

U-NII-2C 11ac80 CH106



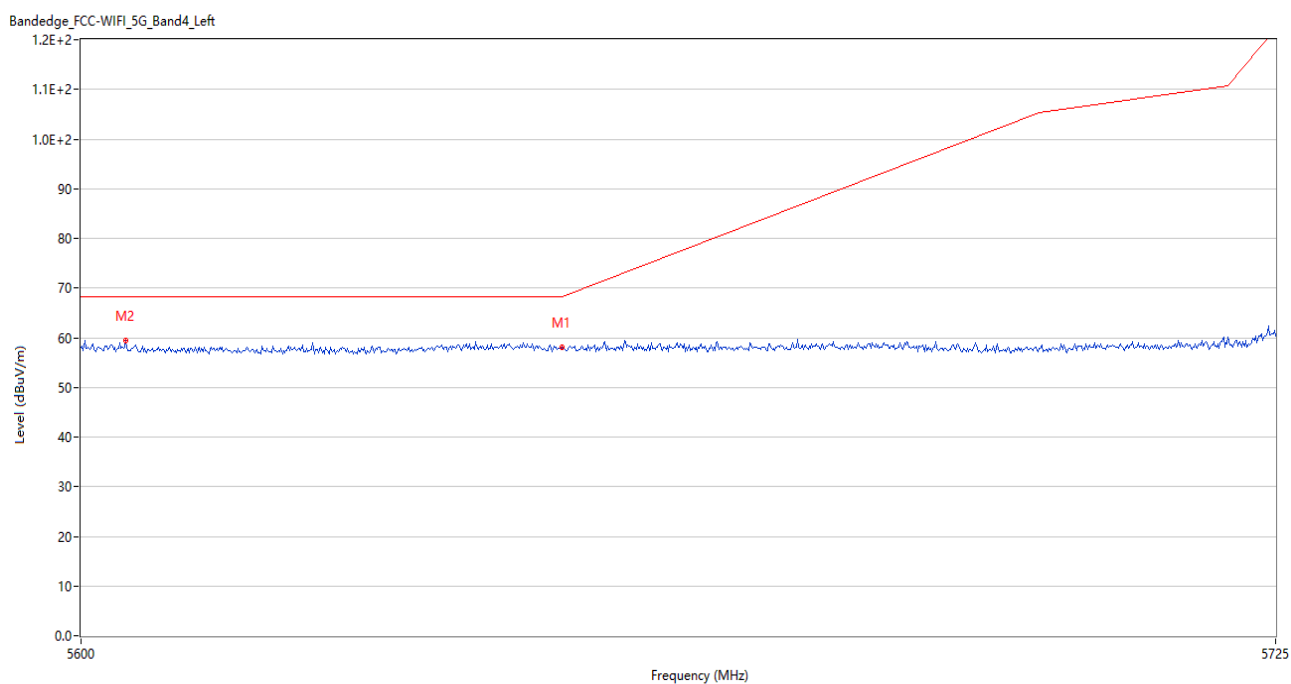
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	56.81	5.38	68.2	11.39	Peak	46.43	150	Vertical	Pass
1**	5460.000	46.19	5.38	54.0	7.81	AV	46.43	150	Vertical	Pass
2	5467.960	57.65	5.72	68.2	10.55	Peak	100.00	150	Vertical	Pass
2**	5467.960	46.58	5.72	--	-46.58	AV	100.00	150	Vertical	N/A

U-NII-2C 11ac80 CH122



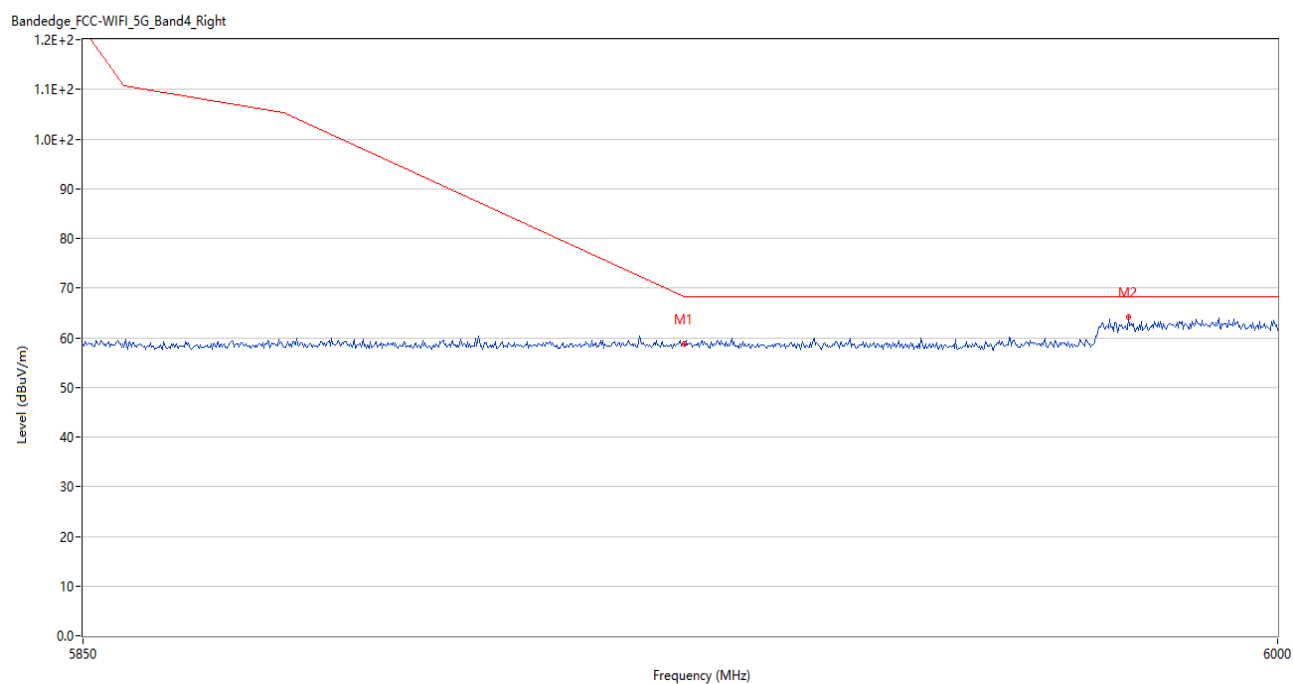
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	58.11	6.57	68.2	10.09	Peak	276.00	150	Horizontal	Pass
2	5842.375	60.94	7.14	68.2	7.26	Peak	138.00	150	Horizontal	Pass

U-NII-3 11a CH149



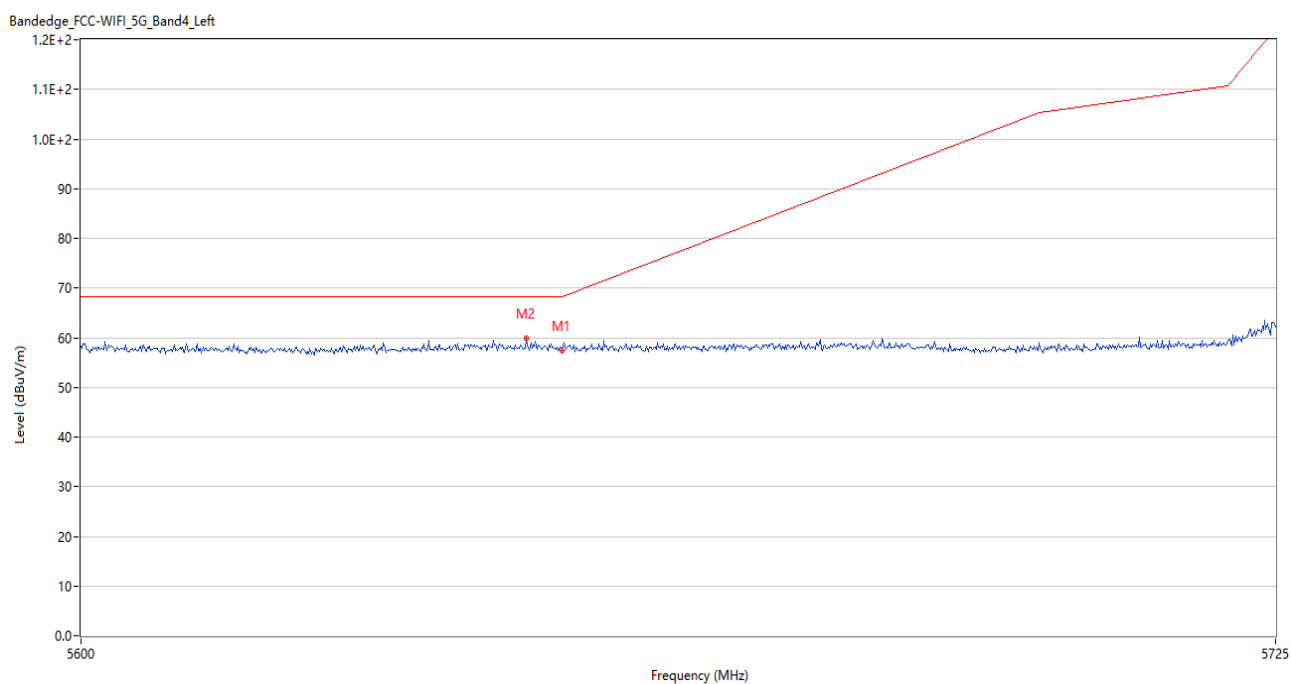
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.14	5.94	68.2	10.06	Peak	359.90	150	Horizontal	Pass
2	5604.625	59.49	5.91	68.2	8.71	Peak	37.00	150	Horizontal	Pass

U-NII-3 11a CH165



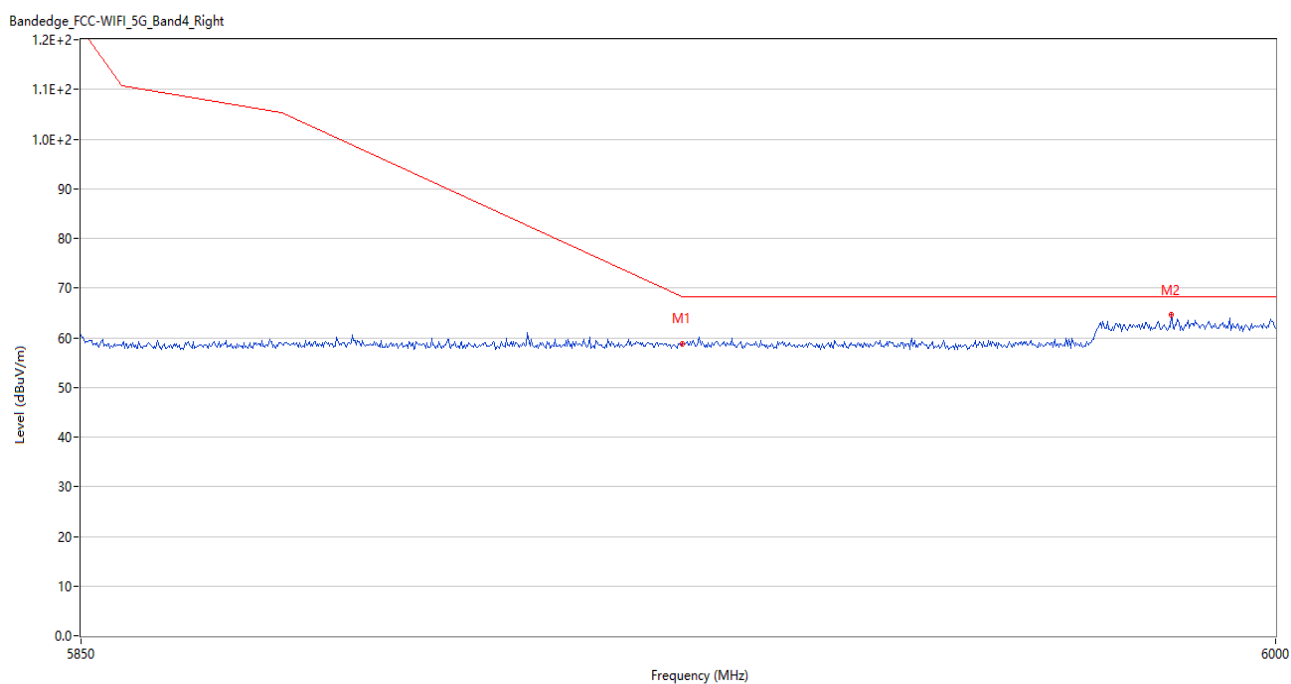
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.75	7.83	68.2	9.45	Peak	149.02	150	Vertical	Pass
2	5981.100	64.12	7.46	68.2	4.08	Peak	118.00	150	Vertical	Pass

U-NII-3 11n20 CH149



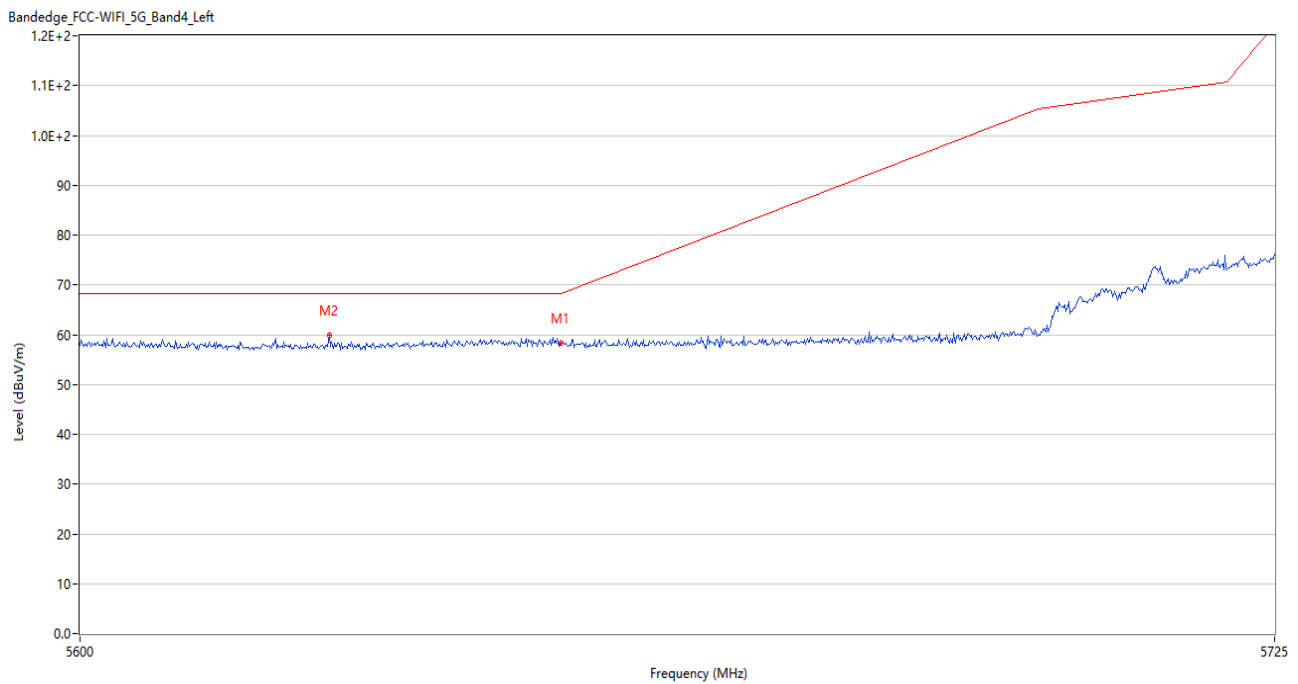
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.47	5.94	68.2	10.73	Peak	0.00	150	Horizontal	Pass
2	5646.250	59.89	5.98	68.2	8.31	Peak	297.00	150	Horizontal	Pass

U-NII-3 11n20 CH165



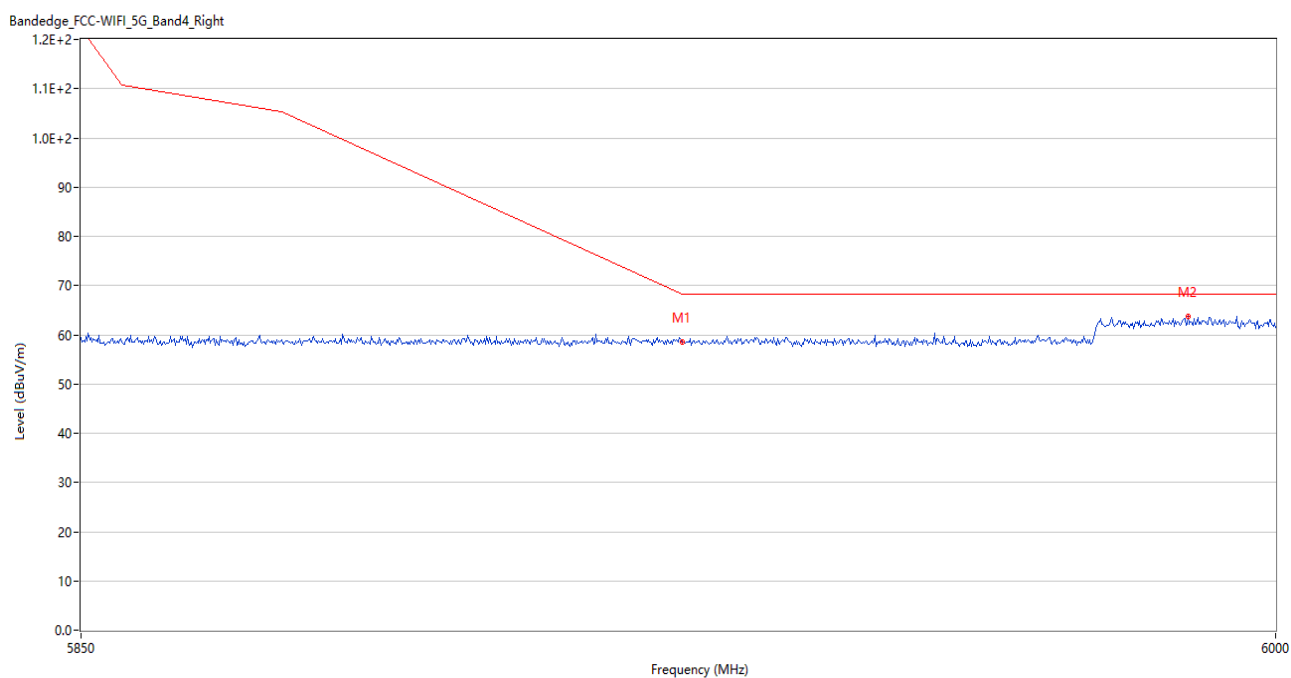
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.85	7.83	68.2	9.35	Peak	126.07	150	Vertical	Pass
2	5986.800	64.66	7.69	68.2	3.54	Peak	109.00	150	Vertical	Pass

U-NII-3 11n40 CH151



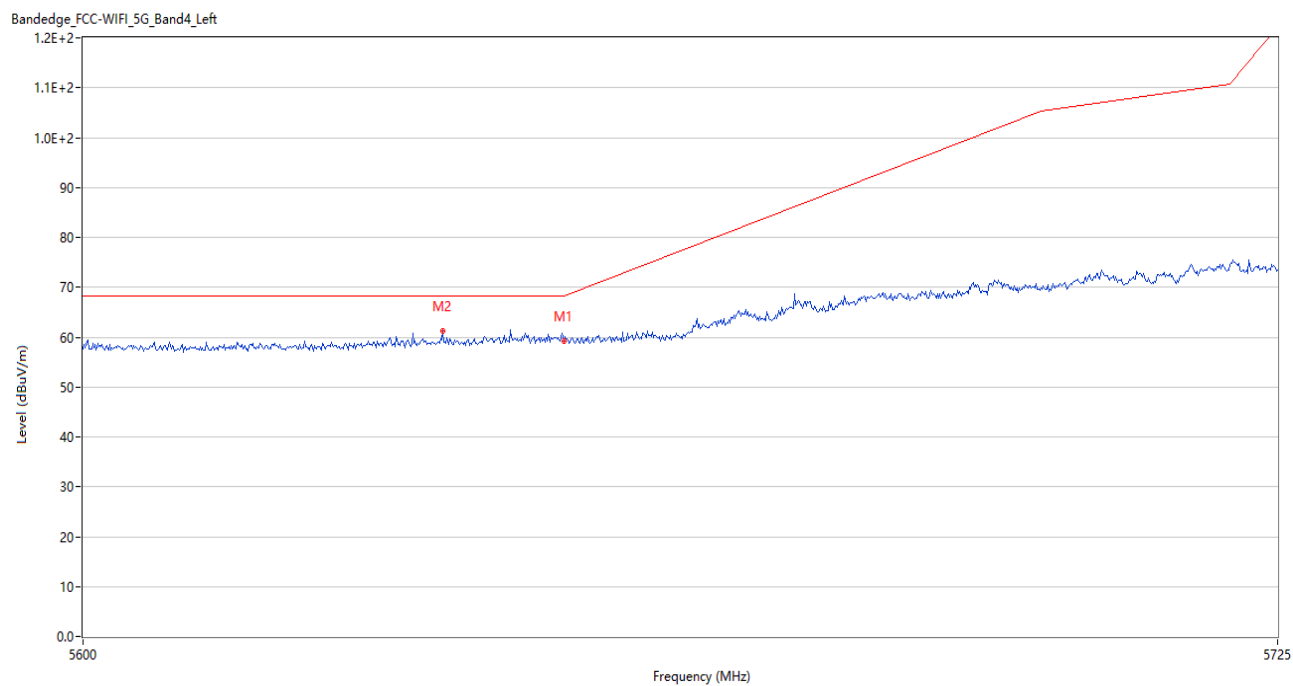
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.26	5.94	68.2	9.94	Peak	194.09	150	Vertical	Pass
2	5625.875	59.90	5.85	68.2	8.30	Peak	194.00	150	Vertical	Pass

U-NII-3 11n40 CH159



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.59	7.83	68.2	9.61	Peak	344.02	150	Vertical	Pass
2	5988.900	63.78	7.87	68.2	4.42	Peak	117.00	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	59.12	5.94	68.2	9.08	Peak	24.97	150	Vertical	Pass
2	5637.375	61.34	5.89	68.2	6.86	Peak	0.00	150	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH24B0903-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH24B0903-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH24B0903-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.
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6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--