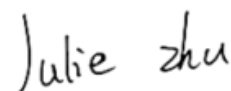
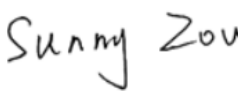


TEST REPORT

Applicant: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue,
Hong Kong Science Park, Shatin, NT, Hong Kong
Equipment Type: Tablet PC
Model Name: 8483A
Brand Name: TCL
FCC ID: 2ACCJB241
Test Standard: 47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date: May 06, 2025
Test Date: May 06, 2025 - May 23, 2025
Date of Issue: Jun. 10, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Julie Zhu**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)
_____
_____

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jun. 10, 2025</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	4
1.1	Test Laboratory	4
1.2	Test Location	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information.....	5
2.3	General Description for Equipment under Test (EUT).....	5
2.4	Technical Information	6
2.5	Channel List	7
3	SUMMARY OF TEST RESULTS	10
3.1	Test Standards	10
3.2	Test Verdict	10
4	GENERAL TEST CONFIGURATIONS	11
4.1	Test Environments.....	11
4.2	Test Equipment List.....	11
4.3	Test Software List.....	11
4.4	Measurement Uncertainty	12
4.5	Description of Test Setup	12
5	TEST ITEMS	15
5.1	RF Output Power	15
5.2	Emission Bandwidth and 6 dB Bandwidth.....	17
5.3	Power Spectral density (PSD)	18
5.4	Conducted Emission.....	19
5.5	Radiated Spurious Emissions and Band Edge (Restricted-band).....	20

ANNEX A	TEST RESULT	25
A.1	RF Output Power	25
A.2	Emission Bandwidth & 99% Bandwidth	28
A.3	6 dB Bandwidth	30
A.4	Power Spectral Density	31
A.5	Conducted Emissions	33
A.6	Radiated Spurious Emissions and Band Edge (Restricted-band).....	35
ANNEX B	TEST SETUP PHOTOS	103
ANNEX C	EUT EXTERNAL PHOTOS.....	103
ANNEX D	EUT INTERNAL PHOTOS.....	103

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	TCL Communication Ltd.
Address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

2.2 Manufacturer Information

Manufacturer	TCL Communication Ltd.
Address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet PC
Model Name Under Test	8483A
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	05
Software Version	7MS4
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n HT20, 802.11n HT40 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)
-----------------------------------	--

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
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
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: 58.23 mW U-NII-2A: 60.14 mW U-NII-2C: 60.14 mW U-NII-3: 56.77 mW
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	IFA Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: -1.0 dBi U-NII-2A: 5250 MHz to 5350 MHz: -1.0 dBi U-NII-2C: 5470 MHz to 5725 MHz: -1.0 dBi U-NII-3: 5725 MHz to 5850 MHz: -1.0dBi
About the Product	The equipment is Tablet PC, intended for used with information technology equipment.

Note: The above EUT information in section 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

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
44	5220	46	5230	58	5290
48	5240	54	5270	106	5530
52	5260	62	5310	122	5610
60	5300	102	5510	138	5690
64	5320	118	5590	155	5775
100	5500	134	5670		
116	5580	142	5710		
140	5700	151	5755		
144	5720	159	5795		
149	5745				
157	5785				
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 ³: 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	100 kPa to 101 kPa	
Temperature	NT (Normal Temperature)	+20.5℃ to +23.5℃
Working Voltage of the EUT	NV (Normal Voltage)	3.85V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	2460	2024.05.16	2027.05.15
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2024.07.28	2026.07.27
Amplifier	COM-MV	LSCX_LNA1-12G-01	7210214	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.04
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2017119082	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2024.07.06	2026.07.05
Anechoic Chamber	RAINFORD	9m*6m*6m	101	2023.03.04	2026.03.03
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2025.04.29	2026.04.28
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2025.02.14	2028.02.13

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

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

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

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

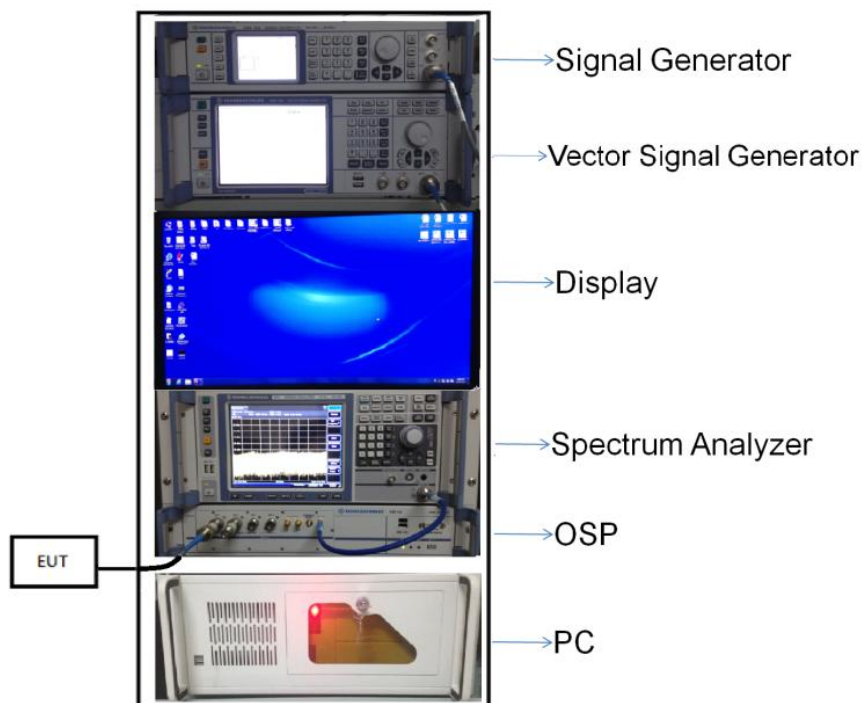
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

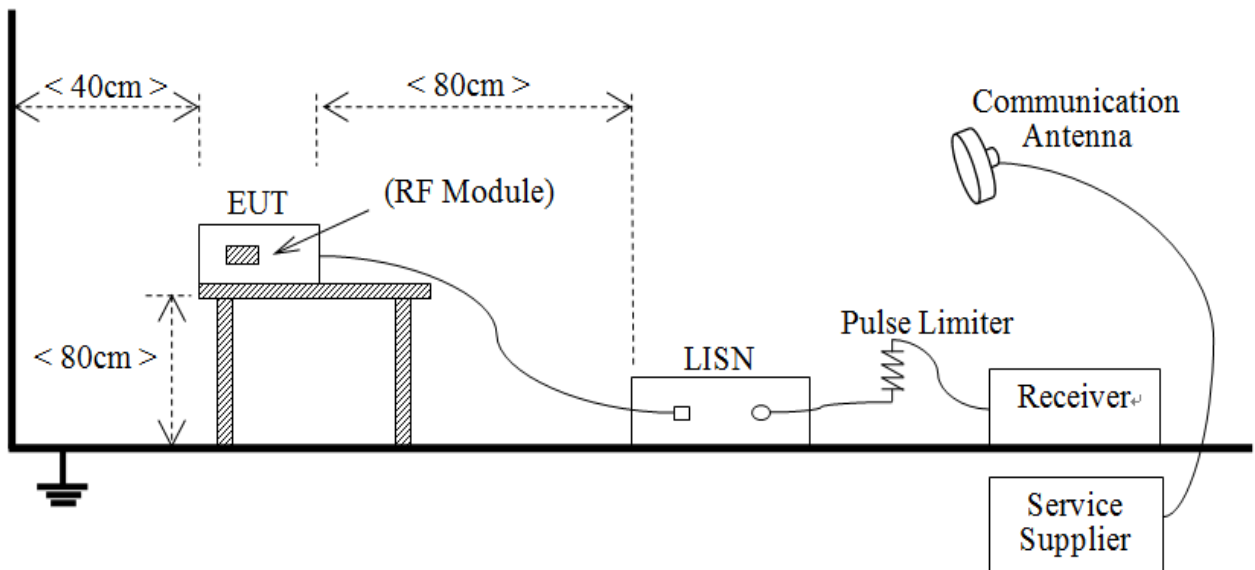
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



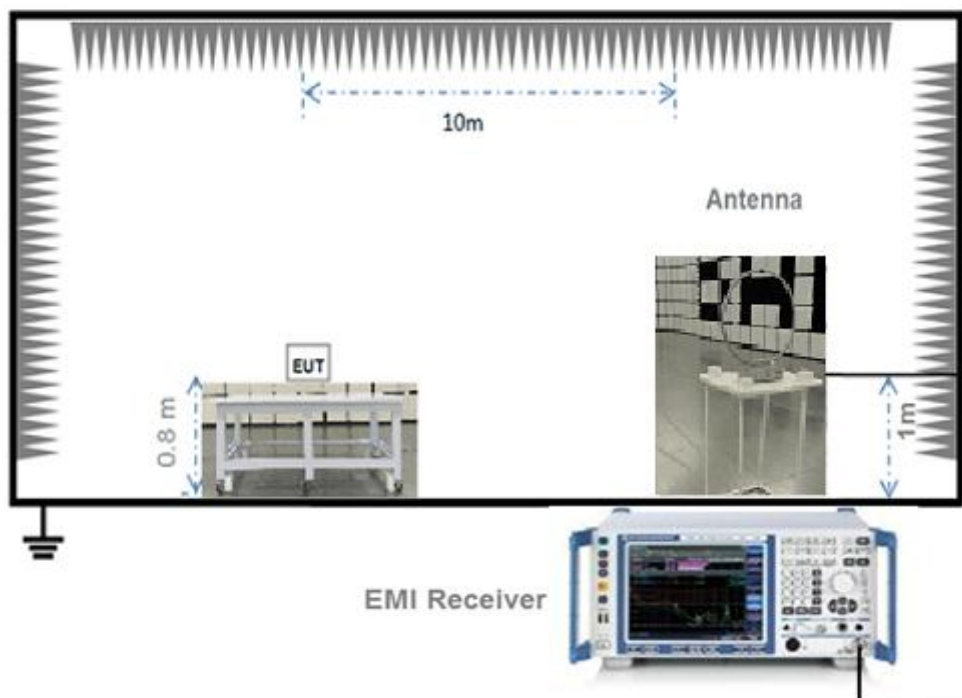
(Diagram 1)

4.5.2 For AC Power Supply Port Test



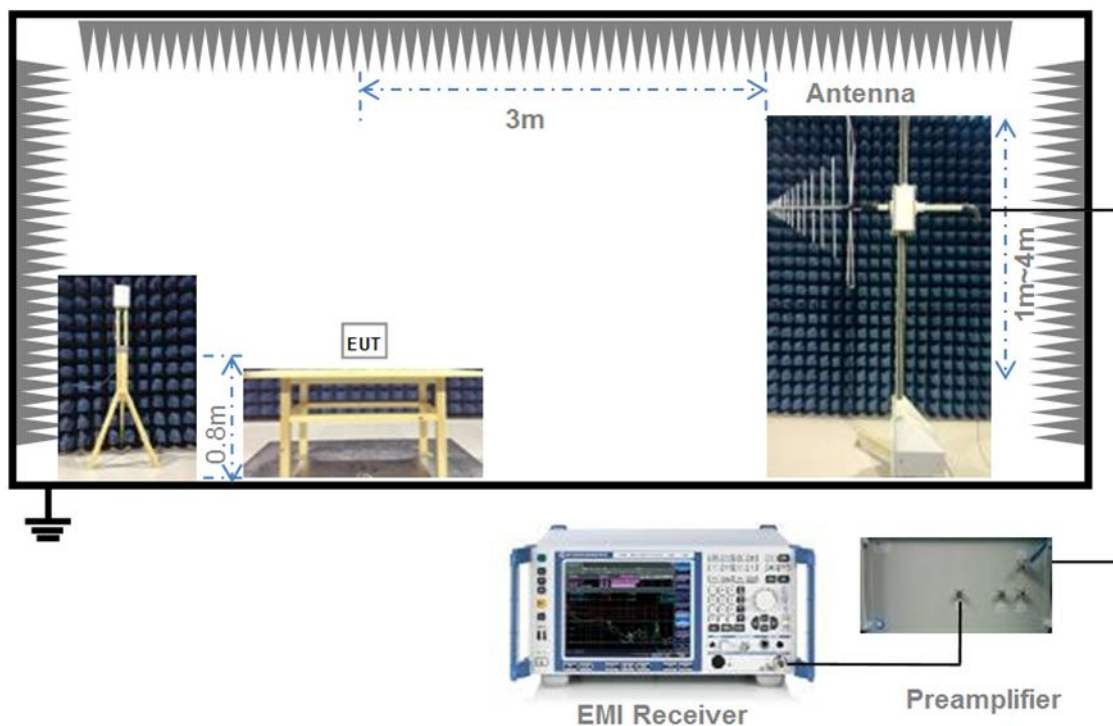
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



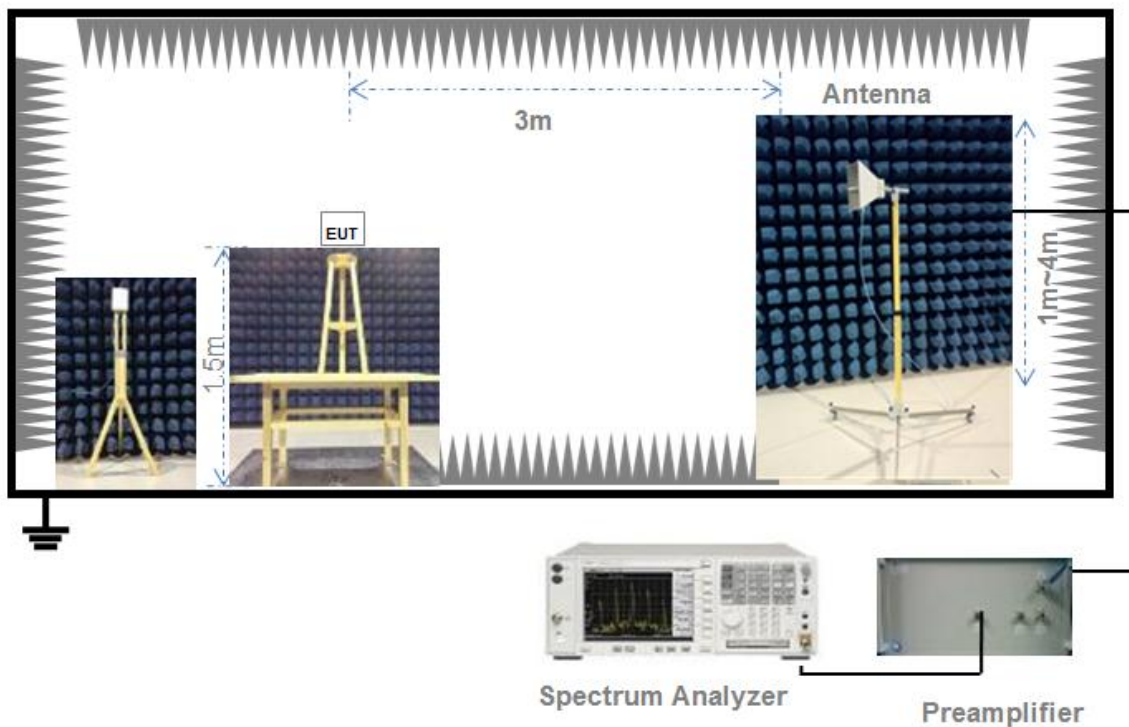
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

5.1.2 Test Setup

The section 4.5.1 (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 ≥ OBW if possible; otherwise, set RBW to the largest available value.

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

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

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

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

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

5.2.2 Test Setup

The test setup photo please refer to 4.5.1 (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, Detector = Peak.
4. Trace mode = Max hold.
5. Use the 99% power bandwidth function of the instrument.

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

5.3.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

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

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

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

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

5.4.2 Test Setup

The section 4.5.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

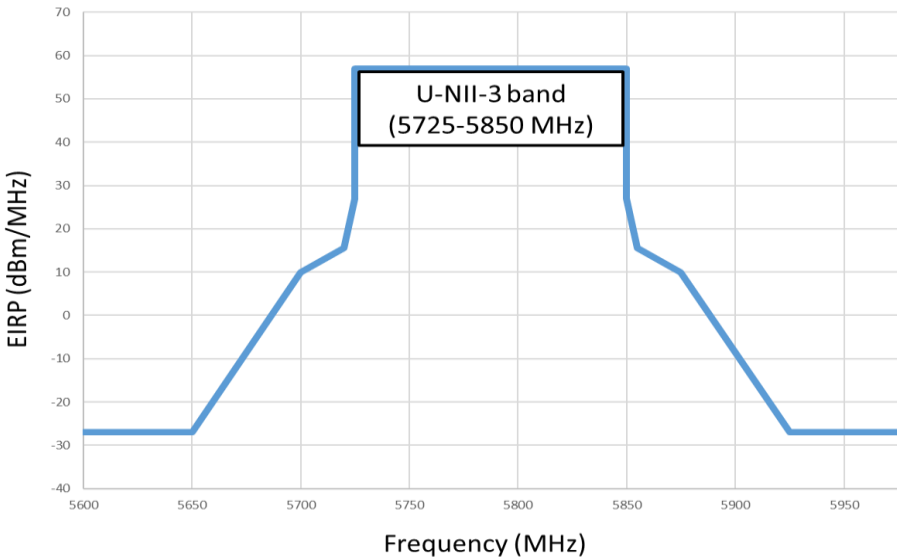
5.5.1 Limit

FCC §15.209 & 15.407(b)

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

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

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

Un-restricted band emissions	
Out Operating Band (MHz)	Limit
5150 - 5250	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5250 - 5350	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5470 - 5725	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5725 - 5850	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. 

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

5.5.2 Test Setup

The section 4.5.3-4.5.5 (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 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).
- c) 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).
- d) 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.

- e) Compare the resultant electric field strength level to the applicable limit.
- f) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

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

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable

emission limits using a peak detector.

Peak power measurement procedure

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

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

Table 1—RBW as a function of frequency

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

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

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

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

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.

h) Perform a trace average of at least 100 traces.

i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.

2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.

3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

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

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	1.39	1.44	96.80%	0.14
11n(HT20)/11ac(VHT20)	1.30	1.35	96.00%	0.18
11n(HT40)/11ac(VHT40)	0.65	0.69	93.70%	0.28
11ac(VHT80)	0.32	0.37	87.67%	0.57

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	17.57	57.17	250	Pass
11a	CH44	17.45	55.61	250	Pass
11a	CH48	17.65	58.23	250	Pass
11n(HT20)	CH36	16.81	47.94	250	Pass
11n(HT20)	CH44	16.84	48.27	250	Pass
11n(HT20)	CH48	17.04	50.55	250	Pass
11n(HT40)	CH38	16.36	43.28	250	Pass
11n(HT40)	CH46	16.42	43.88	250	Pass
11ac(VHT20)	CH36	16.32	42.83	250	Pass
11ac(VHT20)	CH44	16.37	43.32	250	Pass
11ac(VHT20)	CH48	16.63	46.00	250	Pass
11ac(VHT40)	CH38	16.40	43.68	250	Pass
11ac(VHT40)	CH46	16.54	45.11	250	Pass
11ac(VHT80)	CH42	16.45	44.17	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	17.56	57.03	250	Pass
11a	CH60	17.79	60.14	250	Pass
11a	CH64	17.77	59.86	250	Pass
11n(HT20)	CH52	16.98	49.86	250	Pass
11n(HT20)	CH60	17.15	51.85	250	Pass
11n(HT20)	CH64	17.20	52.45	250	Pass
11n(HT40)	CH54	16.54	45.11	250	Pass
11n(HT40)	CH62	16.66	46.37	250	Pass
11ac(VHT20)	CH52	16.45	44.13	250	Pass
11ac(VHT20)	CH60	16.02	39.97	250	Pass
11ac(VHT20)	CH64	16.04	40.15	250	Pass
11ac(VHT40)	CH54	16.43	43.68	250	Pass
11ac(VHT40)	CH62	16.66	45.11	250	Pass
11ac(VHT80)	CH58	16.12	40.94	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	16.89	48.88	250	Pass
11a	CH116	17.60	57.56	250	Pass
11a	CH140	15.26	33.58	250	Pass
11n(HT20)	CH100	16.79	47.72	250	Pass
11n(HT20)	CH116	17.08	51.02	250	Pass
11n(HT20)	CH140	15.69	37.04	250	Pass
11n(HT40)	CH102	15.30	33.91	250	Pass
11n(HT40)	CH118	16.45	44.18	250	Pass
11n(HT40)	CH134	16.24	42.10	250	Pass
11ac(VHT20)	CH100	16.46	44.23	250	Pass
11ac(VHT20)	CH116	16.39	43.52	250	Pass
11ac(VHT20)	CH140	15.31	33.94	250	Pass
11ac(VHT40)	CH102	15.45	60.14	250	Pass
11ac(VHT40)	CH118	16.42	59.86	250	Pass
11ac(VHT40)	CH134	16.12	40.95	250	Pass
11ac(VHT80)	CH106	14.23	26.49	250	Pass
11ac(VHT80)	CH122	16.61	45.83	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	17.54	56.77	1000	Pass
11a	CH157	17.49	56.12	1000	Pass
11a	CH165	17.28	53.47	1000	Pass
11n(HT20)	CH149	16.88	48.72	1000	Pass
11n(HT20)	CH157	16.74	47.18	1000	Pass
11n(HT20)	CH165	16.51	44.74	1000	Pass
11n(HT40)	CH151	15.86	38.57	1000	Pass
11n(HT40)	CH159	16.15	41.24	1000	Pass
11ac(VHT20)	CH149	16.27	42.34	1000	Pass
11ac(VHT20)	CH157	16.26	42.24	1000	Pass
11ac(VHT20)	CH165	16.19	41.56	1000	Pass
11ac(VHT40)	CH151	15.81	38.13	1000	Pass
11ac(VHT40)	CH159	15.60	36.33	1000	Pass
11ac(VHT80)	CH155	16.29	42.57	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ2540082-604 Data Part 1.pdf".

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	25.03	16.73
11a	CH44	24.52	16.66
11a	CH48	24.65	16.65
11n(HT20)	CH36	23.21	17.70
11n(HT20)	CH44	24.74	17.72
11n(HT20)	CH48	24.45	17.71
11n(HT40)	CH38	47.23	36.21
11n(HT40)	CH46	42.57	36.13
11ac(VHT20)	CH36	21.02	17.64
11ac(VHT20)	CH44	21.52	17.64
11ac(VHT20)	CH48	23.40	17.66
11ac(VHT40)	CH38	44.01	36.12
11ac(VHT40)	CH46	44.62	36.12
11ac(VHT80)	CH42	99.57	75.59

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	26.20	16.66
11a	CH60	24.31	16.64
11a	CH64	30.13	16.66
11n(HT20)	CH52	24.13	17.70
11n(HT20)	CH60	23.26	17.70
11n(HT20)	CH64	23.79	17.73
11n(HT40)	CH54	44.78	36.24
11n(HT40)	CH62	49.33	36.19
11ac(VHT20)	CH52	20.62	17.64
11ac(VHT20)	CH60	20.79	17.64
11ac(VHT20)	CH64	21.49	17.64
11ac(VHT40)	CH54	41.06	36.09
11ac(VHT40)	CH62	40.66	36.04
11ac(VHT80)	CH58	85.72	75.52

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	25.39	16.70
11a	CH116	24.73	16.69
11a	CH140	24.94	16.66
11n(HT20)	CH100	24.13	17.72
11n(HT20)	CH116	22.96	17.68
11n(HT20)	CH140	22.99	17.68
11n(HT40)	CH102	48.43	36.24
11n(HT40)	CH118	44.65	36.22
11n(HT40)	CH134	42.20	36.21
11ac(VHT20)	CH100	22.61	17.65
11ac(VHT20)	CH116	21.59	17.66
11ac(VHT20)	CH140	21.30	17.66
11ac(VHT40)	CH102	45.17	36.12
11ac(VHT40)	CH118	44.33	36.12
11ac(VHT40)	CH134	43.81	36.07
11ac(VHT80)	CH106	114.20	75.60
11ac(VHT80)	CH122	84.10	75.52

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	24.14	16.66
11a	CH157	24.87	16.69
11a	CH165	25.02	16.66
11n(HT20)	CH149	25.82	17.70
11n(HT20)	CH157	23.88	17.70
11n(HT20)	CH165	25.61	17.73
11n(HT40)	CH151	45.23	36.24
11n(HT40)	CH159	52.71	36.22
11ac(VHT20)	CH149	21.32	17.65
11ac(VHT20)	CH157	21.51	17.66
11ac(VHT20)	CH165	20.44	17.66
11ac(VHT40)	CH151	40.89	36.07
11ac(VHT40)	CH159	41.16	36.10
11ac(VHT80)	CH155	75.52	120.60

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2540082-604 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.40	500.00	Pass
11a	CH157	15.30	500.00	Pass
11a	CH165	15.40	500.00	Pass
11n(HT20)	CH149	15.30	500.00	Pass
11n(HT20)	CH157	15.30	500.00	Pass
11n(HT20)	CH165	15.20	500.00	Pass
11n(HT40)	CH151	35.30	500.00	Pass
11n(HT40)	CH159	35.30	500.00	Pass
11ac(VHT20)	CH149	15.70	500.00	Pass
11ac(VHT20)	CH157	15.50	500.00	Pass
11ac(VHT20)	CH165	15.40	500.00	Pass
11ac(VHT40)	CH151	35.20	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-SZ2540082-604 Data Part 3.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	7.47	11.00	Pass
11a	CH44	7.60	11.00	Pass
11a	CH48	7.74	11.00	Pass
11n(HT20)	CH36	6.60	11.00	Pass
11n(HT20)	CH44	6.75	11.00	Pass
11n(HT20)	CH48	7.00	11.00	Pass
11n(HT40)	CH38	3.23	11.00	Pass
11n(HT40)	CH46	3.53	11.00	Pass
11ac(VHT20)	CH36	5.94	11.00	Pass
11ac(VHT20)	CH44	6.28	11.00	Pass
11ac(VHT20)	CH48	6.47	11.00	Pass
11ac(VHT40)	CH38	3.24	11.00	Pass
11ac(VHT40)	CH46	3.45	11.00	Pass
11ac(VHT80)	CH42	0.22	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	7.77	11.00	Pass
11a	CH60	7.71	11.00	Pass
11a	CH64	7.70	11.00	Pass
11n(HT20)	CH52	6.79	11.00	Pass
11n(HT20)	CH60	6.94	11.00	Pass
11n(HT20)	CH64	7.00	11.00	Pass
11n(HT40)	CH54	3.30	11.00	Pass
11n(HT40)	CH62	3.53	11.00	Pass
11ac(VHT20)	CH52	6.27	11.00	Pass
11ac(VHT20)	CH60	6.40	11.00	Pass
11ac(VHT20)	CH64	6.39	11.00	Pass
11ac(VHT40)	CH54	3.45	11.00	Pass
11ac(VHT40)	CH62	3.50	11.00	Pass
11ac(VHT80)	CH58	-0.49	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	6.58	11.00	Pass
11a	CH116	7.49	11.00	Pass
11a	CH140	4.84	11.00	Pass
11n(HT20)	CH100	6.60	11.00	Pass
11n(HT20)	CH116	6.71	11.00	Pass
11n(HT20)	CH140	5.05	11.00	Pass
11n(HT40)	CH102	1.64	11.00	Pass
11n(HT40)	CH118	3.26	11.00	Pass
11n(HT40)	CH134	3.03	11.00	Pass
11ac(VHT20)	CH100	6.07	11.00	Pass
11ac(VHT20)	CH116	6.00	11.00	Pass
11ac(VHT20)	CH140	6.11	11.00	Pass
11ac(VHT40)	CH102	2.96	11.00	Pass
11ac(VHT40)	CH118	3.18	11.00	Pass
11ac(VHT40)	CH134	3.05	11.00	Pass
11ac(VHT80)	CH106	-2.44	11.00	Pass
11ac(VHT80)	CH122	0.15	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	4.59	30.00	Pass
11a	CH157	4.64	30.00	Pass
11a	CH165	4.32	30.00	Pass
11n(HT20)	CH149	3.78	30.00	Pass
11n(HT20)	CH157	3.61	30.00	Pass
11n(HT20)	CH165	3.56	30.00	Pass
11n(HT40)	CH151	0.37	30.00	Pass
11n(HT40)	CH159	0.15	30.00	Pass
11ac(VHT20)	CH149	3.36	30.00	Pass
11ac(VHT20)	CH157	3.16	30.00	Pass
11ac(VHT20)	CH165	2.86	30.00	Pass
11ac(VHT40)	CH151	0.24	30.00	Pass
11ac(VHT40)	CH159	-0.42	30.00	Pass
11ac(VHT80)	CH155	-2.58	30.00	Pass

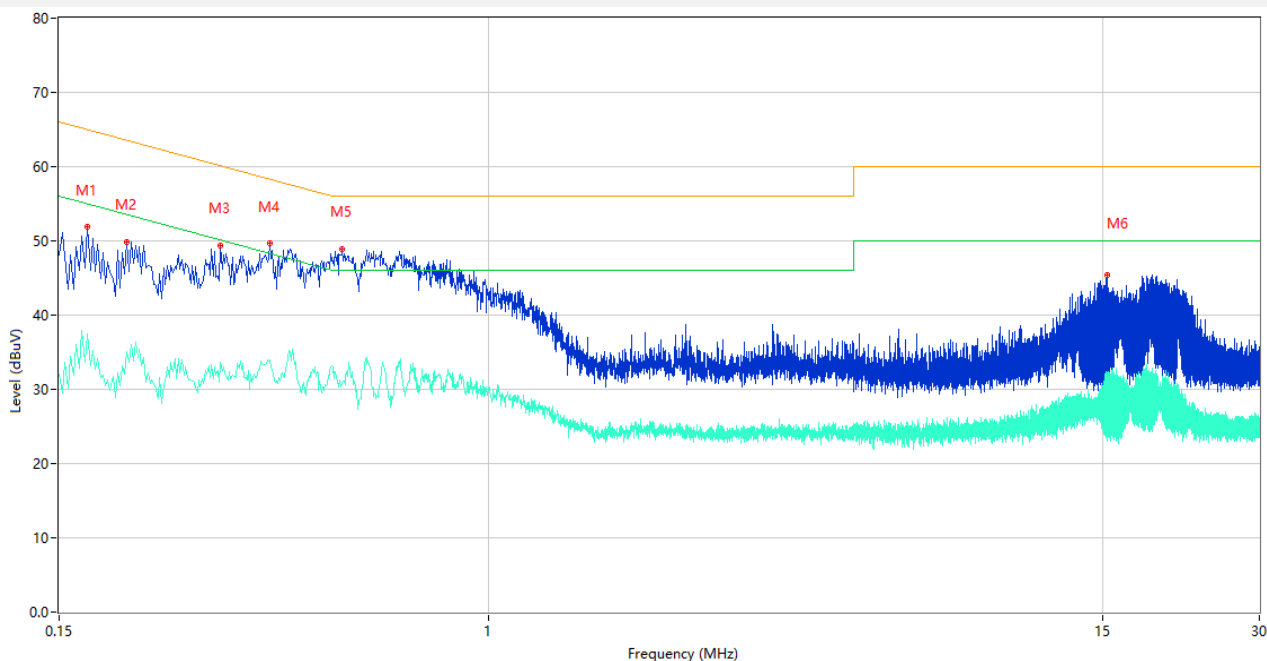
A.5 Conducted Emissions

Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note²: 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.

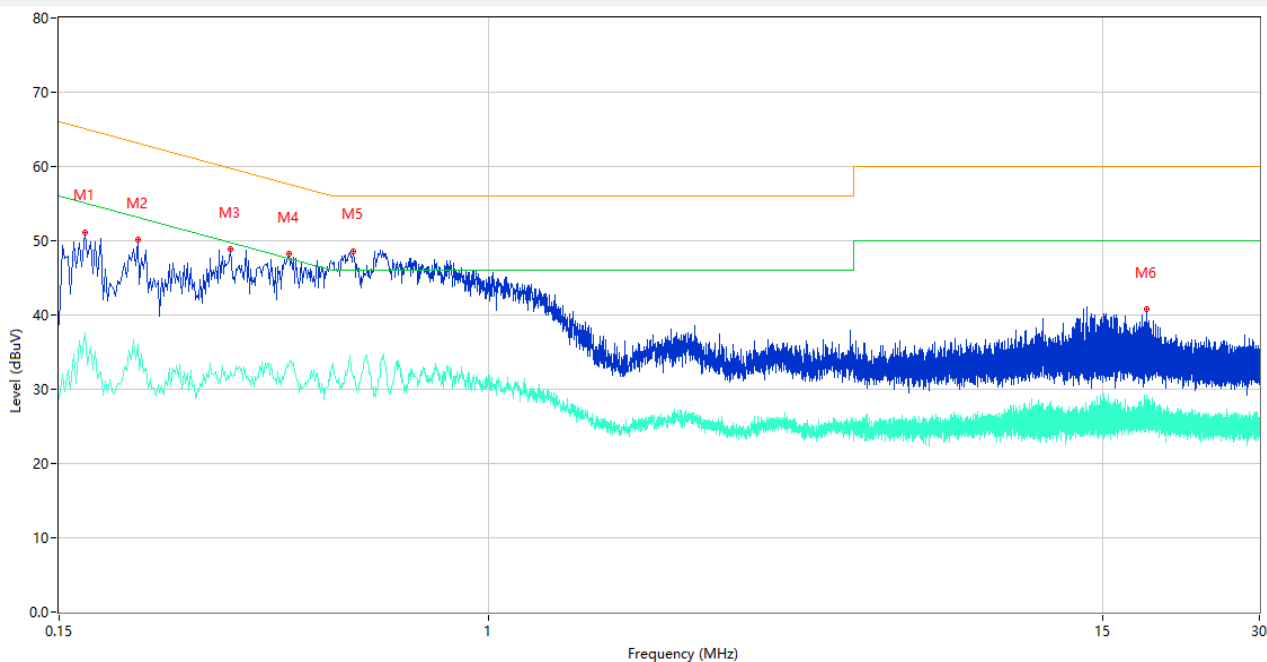
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.170	51.86	9.83	64.96	13.10	Peak	L	Pass
1**	0.170	37.50	9.83	54.96	17.46	AV	L	Pass
2	0.202	49.92	9.83	63.53	13.61	Peak	L	Pass
2**	0.202	35.14	9.83	53.53	18.39	AV	L	Pass
3	0.306	49.37	9.94	60.08	10.71	Peak	L	Pass
3**	0.306	33.70	9.94	50.08	16.38	AV	L	Pass
4	0.380	49.62	10.68	58.28	8.66	Peak	L	Pass
4**	0.380	34.03	10.68	48.28	14.25	AV	L	Pass
5	0.524	48.90	10.01	56.00	7.10	Peak	L	Pass
5**	0.524	30.94	10.01	46.00	15.06	AV	L	Pass
6	15.344	45.37	10.70	60.00	14.63	Peak	L	Pass
6**	15.344	31.46	10.70	50.00	18.54	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	51.07	9.83	65.06	13.99	Peak	N	Pass
1**	0.168	37.59	9.83	55.06	17.47	AV	N	Pass
2	0.212	50.10	9.83	63.13	13.03	Peak	N	Pass
2**	0.212	35.96	9.83	53.13	17.17	AV	N	Pass
3	0.320	48.83	10.21	59.71	10.88	Peak	N	Pass
3**	0.320	32.35	10.21	49.71	17.36	AV	N	Pass
4	0.414	48.23	10.44	57.57	9.34	Peak	N	Pass
4**	0.414	33.34	10.44	47.57	14.23	AV	N	Pass
5	0.550	48.60	10.04	56.00	7.40	Peak	N	Pass
5**	0.550	31.52	10.04	46.00	14.48	AV	N	Pass
6	18.286	40.75	11.01	60.00	19.25	Peak	N	Pass
6**	18.286	28.38	11.01	50.00	21.62	AV	N	Pass

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

Note¹: The symbol of "--" in the table which means not application.

Note²: 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.

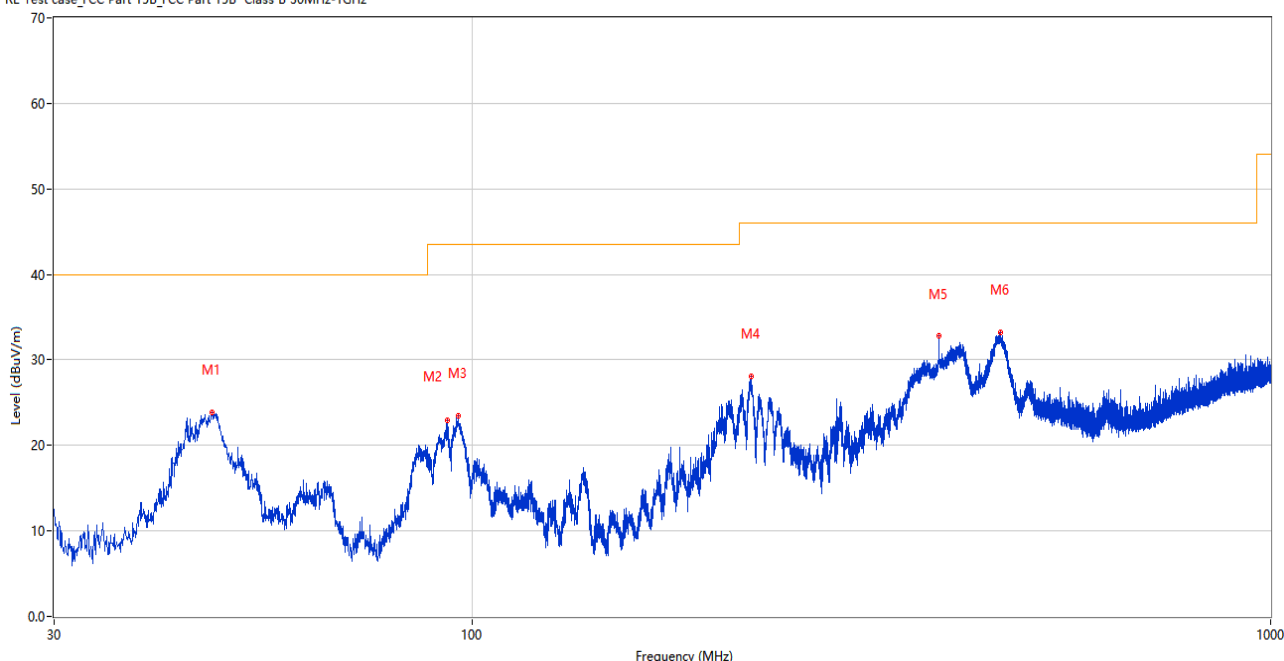
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

30 MHz to 1 GHz, ANT H

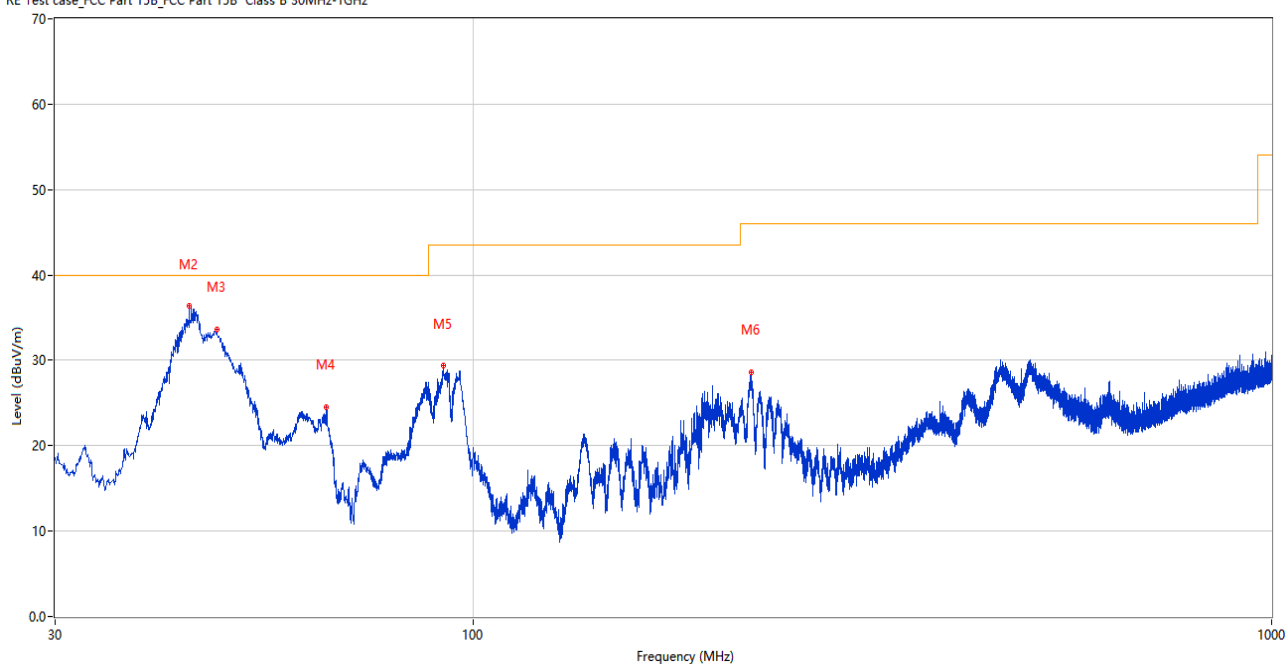
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.266	23.90	-25.53	40.0	16.10	Peak	105.00	100	Horizontal	Pass
2	93.293	22.88	-27.73	43.5	20.62	Peak	123.00	200	Horizontal	Pass
3	96.202	23.46	-27.44	43.5	20.04	Peak	115.00	200	Horizontal	Pass
4	223.467	28.05	-26.03	46.0	17.95	Peak	185.00	100	Horizontal	Pass
5	384.002	32.76	-21.42	46.0	13.24	Peak	171.00	100	Horizontal	Pass
6	459.322	33.23	-19.73	46.0	12.77	Peak	99.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz

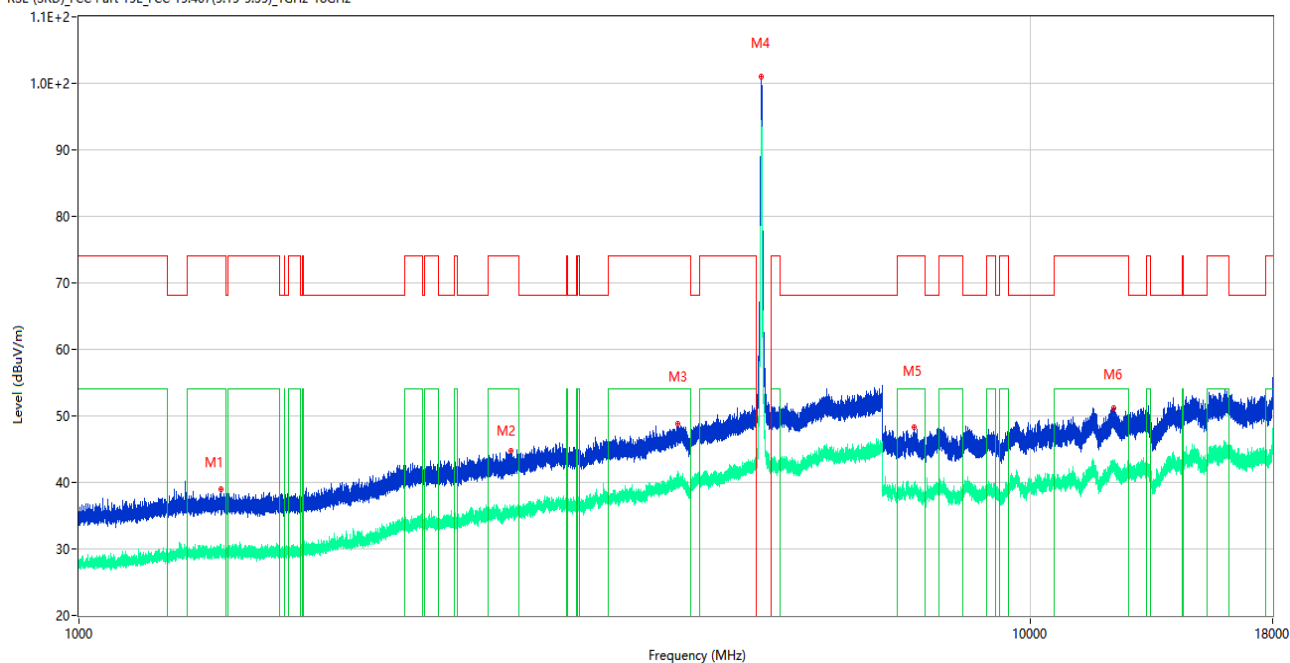


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	39.991	23.98	-27.14	40.0	16.02	Peak	342.00	100	Vertical	Pass
2	44.162	36.32	-25.85	40.0	3.68	Peak	233.00	100	Vertical	Pass
3	47.800	33.56	-24.91	40.0	6.44	Peak	329.00	100	Vertical	Pass
4	65.599	24.52	-27.84	40.0	15.48	Peak	38.00	100	Vertical	Pass
5	91.789	29.33	-27.99	43.5	14.17	Peak	209.00	100	Vertical	Pass
6	222.836	28.64	-26.05	46.0	17.36	Peak	194.00	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

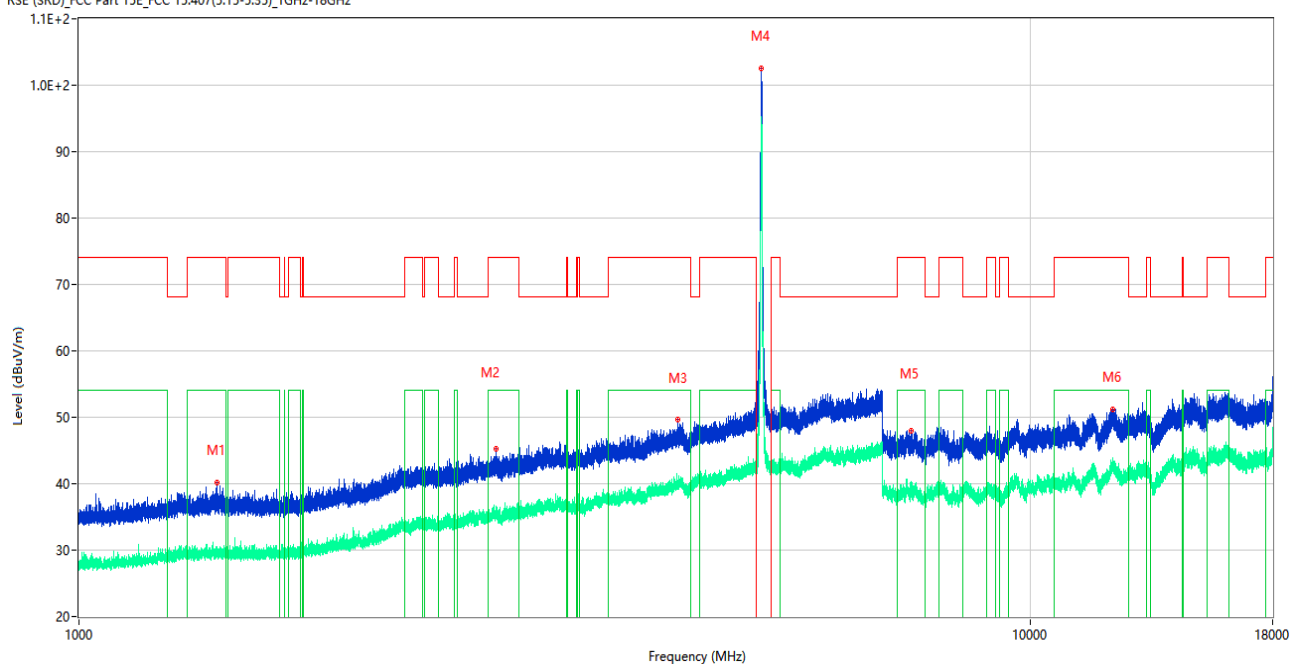
RSE (SRD) FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1411.300	38.94	74.0	35.06	Peak	3.00	300	Horizontal	Pass
1**	1411.300	30.20	54.0	23.80	AV	3.00	300	Horizontal	Pass
2	2843.900	44.80	74.0	29.20	Peak	359.00	400	Horizontal	Pass
2**	2843.900	35.35	54.0	18.65	AV	359.00	400	Horizontal	Pass
3	4262.200	48.85	74.0	25.15	Peak	284.00	150	Horizontal	Pass
3**	4262.200	39.46	54.0	14.54	AV	284.00	150	Horizontal	Pass
4	5221.000	101.07	--	--	Peak	315.00	300	Horizontal	N/A
4**	5221.000	94.39	--	--	AV	315.00	300	Horizontal	N/A
5	7560.337	48.25	74.0	25.75	Peak	155.00	200	Horizontal	Pass
5**	7560.337	38.91	54.0	15.09	AV	155.00	200	Horizontal	Pass
6	12241.988	51.20	74.0	22.80	Peak	58.00	400	Horizontal	Pass
6**	12241.988	43.05	54.0	10.95	AV	58.00	400	Horizontal	Pass

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

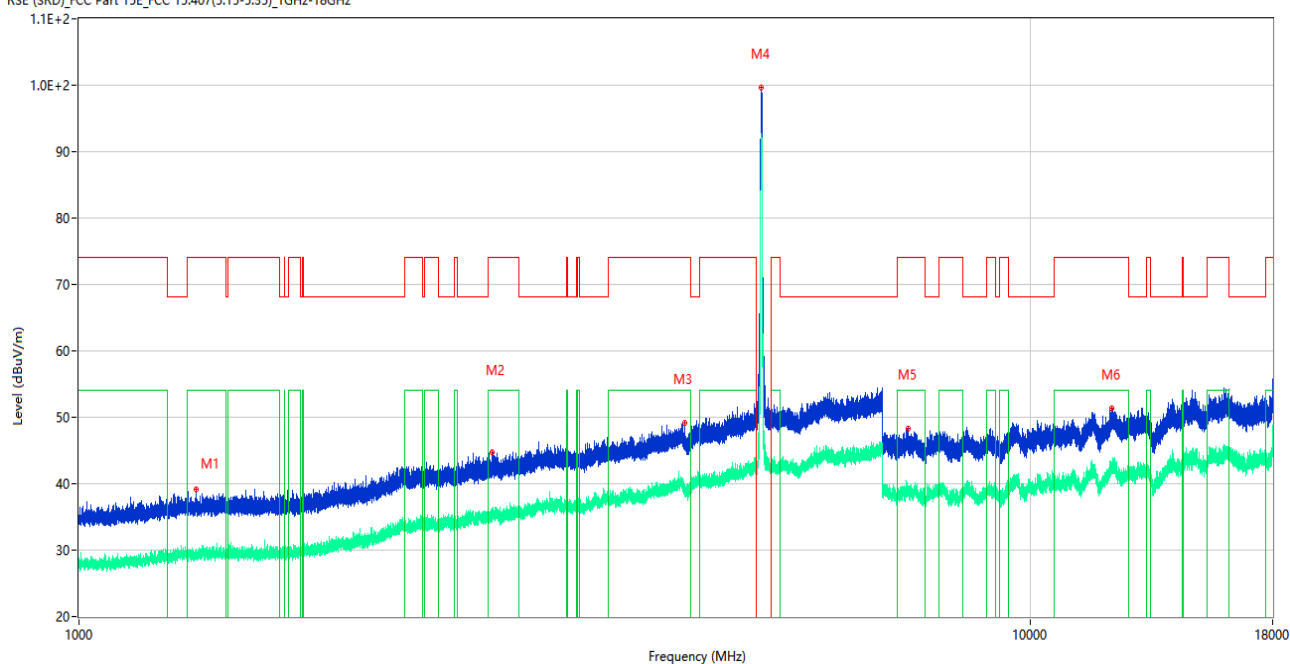
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1397.800	40.11	74.0	33.89	Peak	191.00	200	Vertical	Pass
1**	1397.800	29.04	54.0	24.96	AV	191.00	200	Vertical	Pass
2	2742.400	45.33	74.0	28.67	Peak	31.00	200	Vertical	Pass
2**	2742.400	36.13	54.0	17.87	AV	31.00	200	Vertical	Pass
3	4265.400	49.59	74.0	24.41	Peak	360.00	200	Vertical	Pass
3**	4265.400	39.90	54.0	14.10	AV	360.00	200	Vertical	Pass
4	5218.000	102.52	--	--	Peak	130.00	200	Vertical	N/A
4**	5218.000	94.04	--	--	AV	130.00	200	Vertical	N/A
5	7494.500	48.04	74.0	25.96	Peak	290.00	100	Vertical	Pass
5**	7494.500	38.89	54.0	15.11	AV	290.00	100	Vertical	Pass
6	12221.000	51.14	74.0	22.86	Peak	360.00	200	Vertical	Pass
6**	12221.000	42.42	54.0	11.58	AV	360.00	200	Vertical	Pass

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

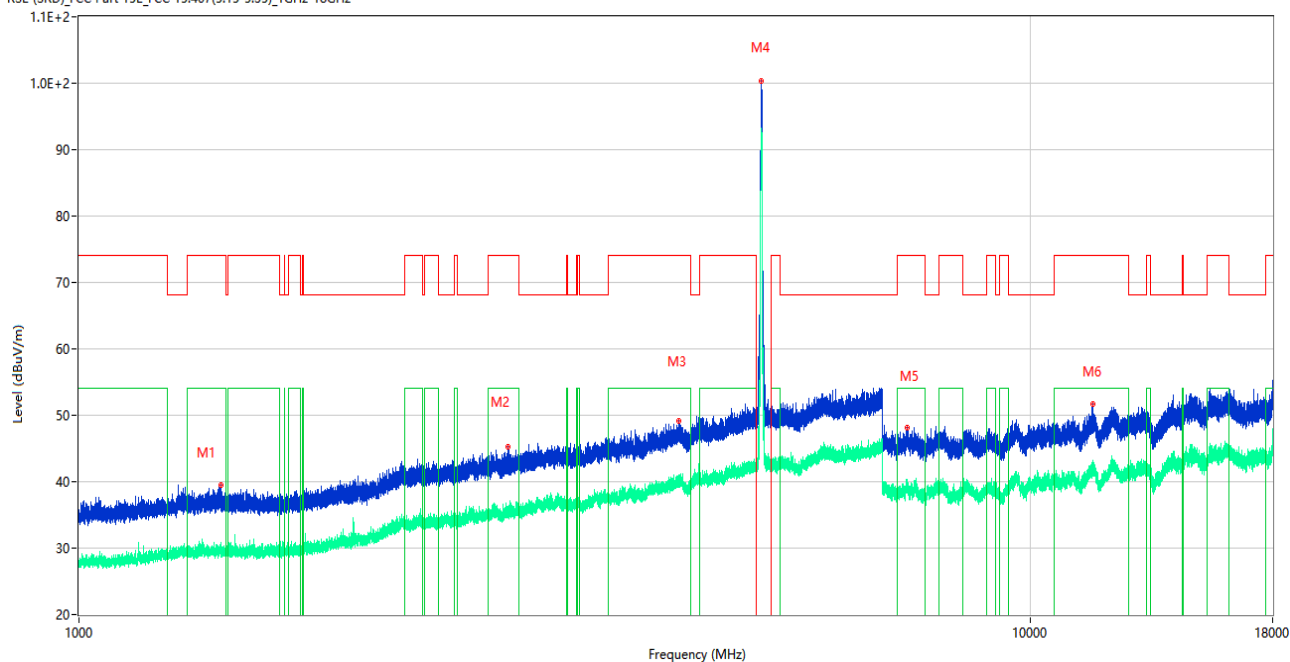
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.600	39.12	74.0	34.88	Peak	117.00	100	Horizontal	Pass
1**	1328.600	30.15	54.0	23.85	AV	117.00	100	Horizontal	Pass
2	2717.300	44.74	74.0	29.26	Peak	16.00	400	Horizontal	Pass
2**	2717.300	35.34	54.0	18.66	AV	16.00	400	Horizontal	Pass
3	4330.400	49.18	74.0	24.82	Peak	4.00	200	Horizontal	Pass
3**	4330.400	39.47	54.0	14.53	AV	4.00	200	Horizontal	Pass
4	5218.800	99.73	--	--	Peak	305.00	100	Horizontal	N/A
4**	5218.800	92.79	--	--	AV	305.00	100	Horizontal	N/A
5	7456.263	48.26	74.0	25.74	Peak	205.00	200	Horizontal	Pass
5**	7456.263	39.11	54.0	14.89	AV	205.00	200	Horizontal	Pass
6	12178.162	51.44	74.0	22.56	Peak	196.00	300	Horizontal	Pass
6**	12178.162	42.22	54.0	11.78	AV	196.00	300	Horizontal	Pass

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

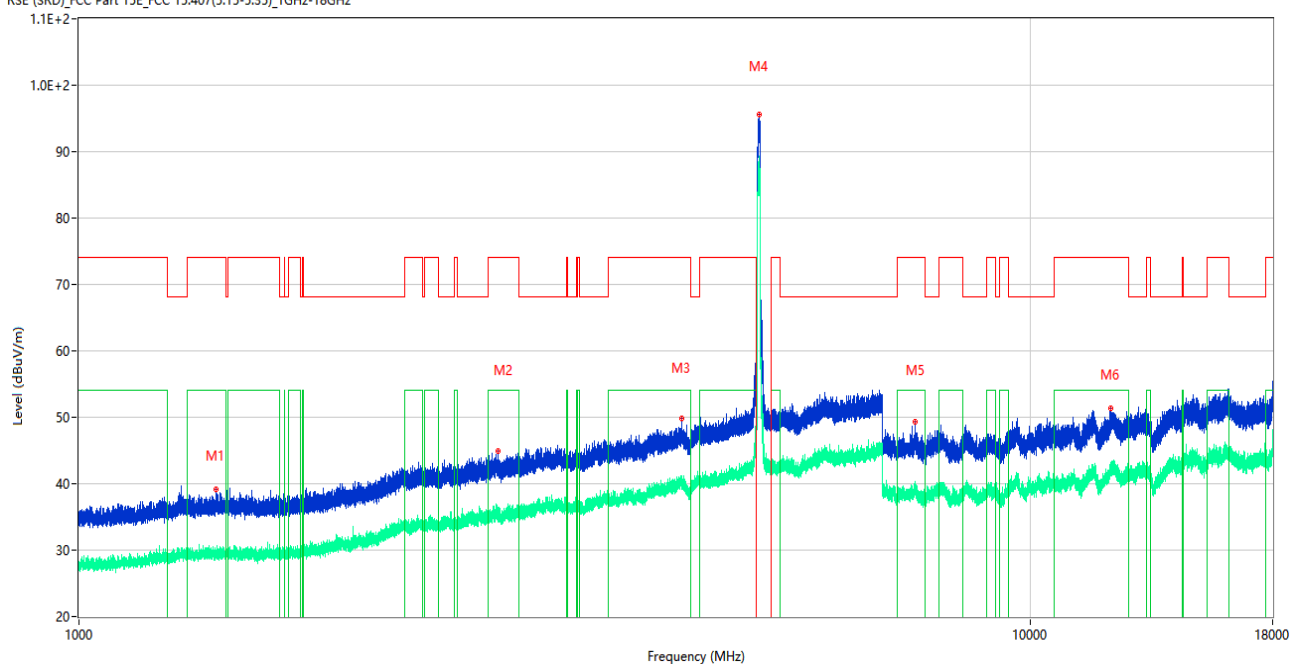
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1409.700	39.43	74.0	34.57	Peak	250.00	200	Vertical	Pass
1**	1409.700	29.17	54.0	24.83	AV	250.00	200	Vertical	Pass
2	2825.600	45.18	74.0	28.82	Peak	316.00	200	Vertical	Pass
2**	2825.600	35.84	54.0	18.16	AV	316.00	200	Vertical	Pass
3	4270.200	49.15	74.0	24.85	Peak	147.00	150	Vertical	Pass
3**	4270.200	40.29	54.0	13.71	AV	147.00	150	Vertical	Pass
4	5221.200	100.39	--	--	Peak	131.00	100	Vertical	N/A
4**	5221.200	92.73	--	--	AV	131.00	100	Vertical	N/A
5	7426.650	48.12	74.0	25.88	Peak	270.00	150	Vertical	Pass
5**	7426.650	39.27	54.0	14.73	AV	270.00	150	Vertical	Pass
6	11647.438	51.69	74.0	22.31	Peak	0.00	100	Vertical	Pass
6**	11647.438	41.45	54.0	12.55	AV	0.00	100	Vertical	Pass

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

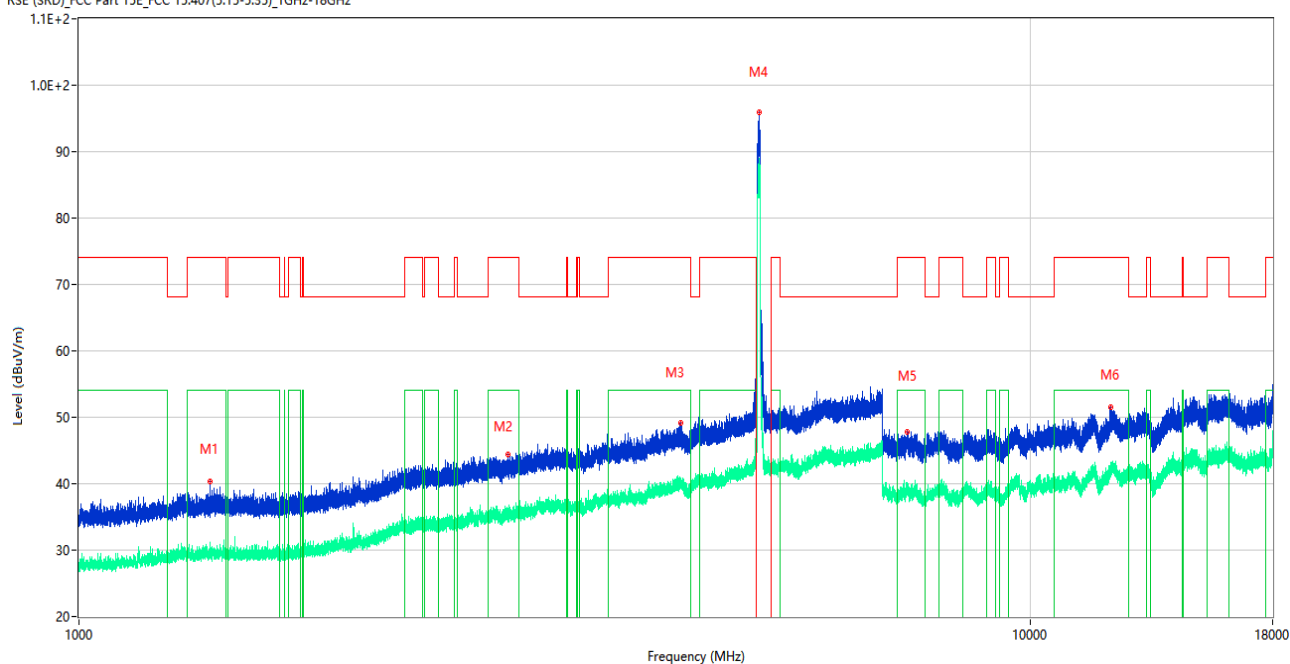
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1392.700	39.22	74.0	34.78	Peak	256.00	200	Horizontal	Pass
1**	1392.700	29.27	54.0	24.73	AV	256.00	200	Horizontal	Pass
2	2758.700	44.89	74.0	29.11	Peak	303.00	400	Horizontal	Pass
2**	2758.700	34.99	54.0	19.01	AV	303.00	400	Horizontal	Pass
3	4301.400	49.82	74.0	24.18	Peak	307.00	100	Horizontal	Pass
3**	4301.400	40.09	54.0	13.91	AV	307.00	100	Horizontal	Pass
4	5195.400	95.65	--	--	Peak	307.00	200	Horizontal	N/A
4**	5195.400	88.13	--	--	AV	307.00	200	Horizontal	N/A
5	7574.425	49.36	74.0	24.64	Peak	286.00	100	Horizontal	Pass
5**	7574.425	38.53	54.0	15.47	AV	286.00	100	Horizontal	Pass
6	12168.674	51.42	74.0	22.58	Peak	350.00	300	Horizontal	Pass
6**	12168.674	42.32	54.0	11.68	AV	350.00	300	Horizontal	Pass

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

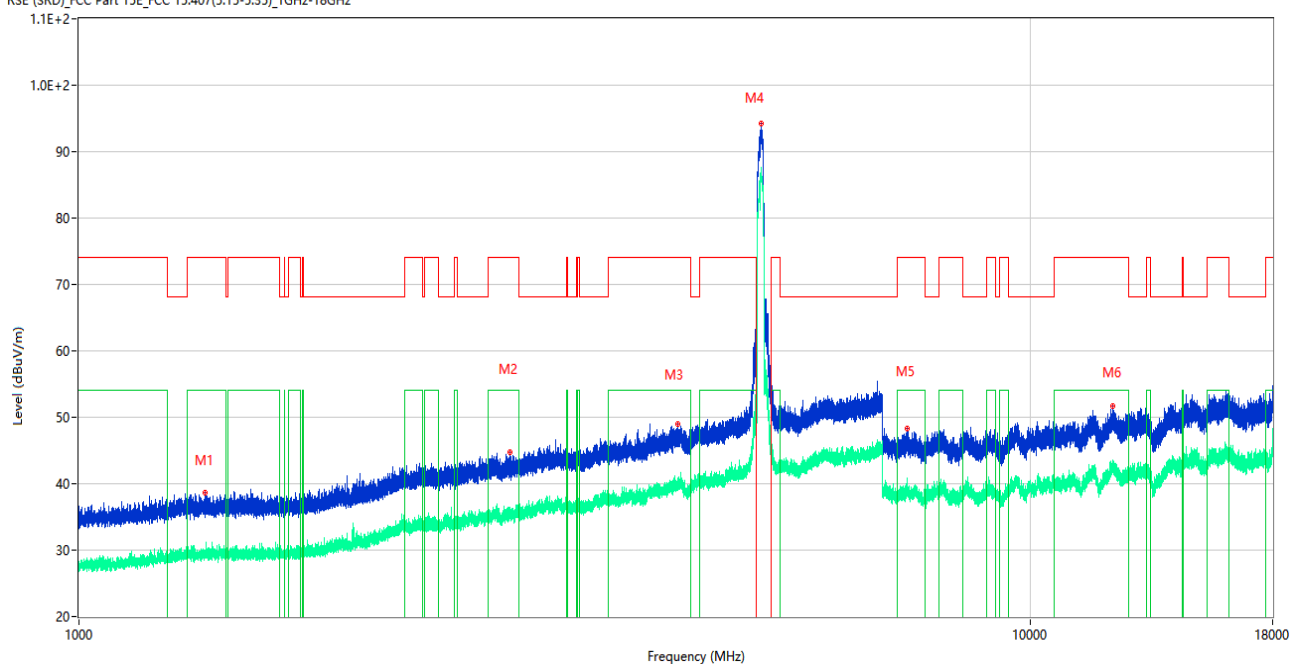
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1374.500	40.30	74.0	33.70	Peak	195.00	300	Vertical	Pass
1**	1374.500	28.86	54.0	25.14	AV	195.00	300	Vertical	Pass
2	2823.200	44.43	74.0	29.57	Peak	350.00	200	Vertical	Pass
2**	2823.200	35.34	54.0	18.66	AV	350.00	200	Vertical	Pass
3	4295.600	49.16	74.0	24.84	Peak	283.00	150	Vertical	Pass
3**	4295.600	39.68	54.0	14.32	AV	283.00	150	Vertical	Pass
4	5191.600	95.94	--	--	Peak	124.00	200	Vertical	N/A
4**	5191.600	89.07	--	--	AV	124.00	200	Vertical	N/A
5	7426.362	47.77	74.0	26.23	Peak	296.00	150	Vertical	Pass
5**	7426.362	38.93	54.0	15.07	AV	296.00	150	Vertical	Pass
6	12162.062	51.48	74.0	22.52	Peak	360.00	100	Vertical	Pass
6**	12162.062	42.54	54.0	11.46	AV	360.00	100	Vertical	Pass

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

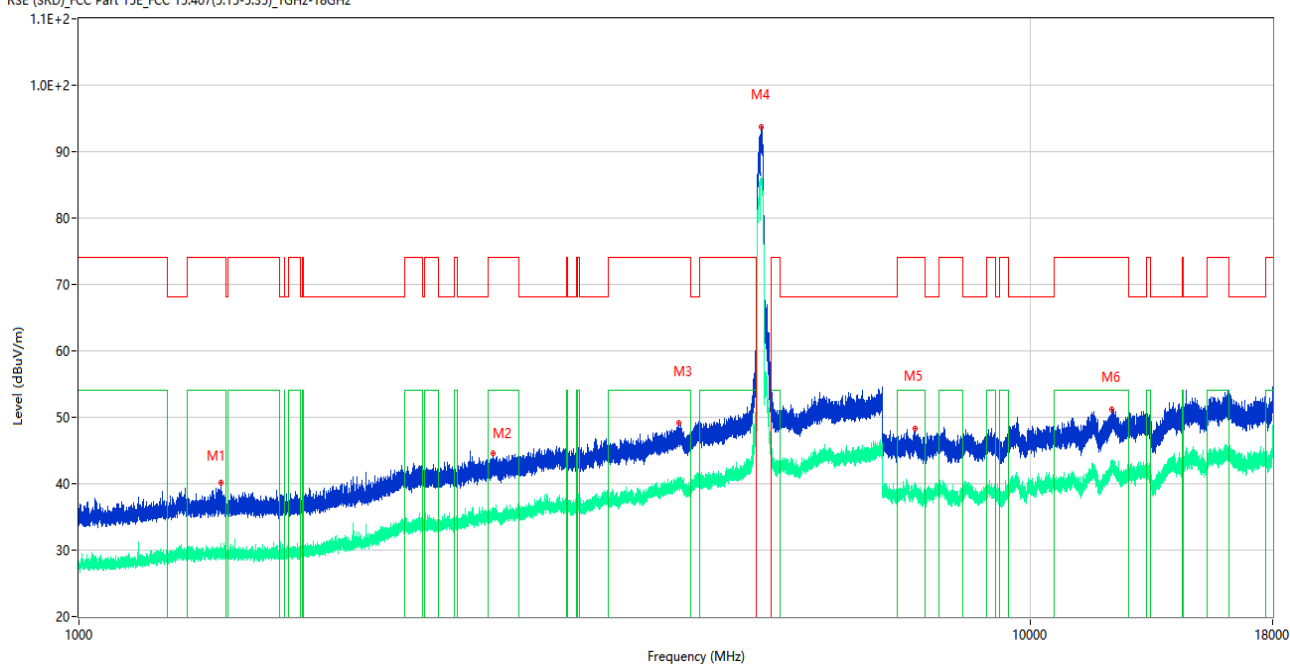
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1357.900	38.59	74.0	35.41	Peak	223.00	200	Horizontal	Pass
1**	1357.900	29.06	54.0	24.94	AV	223.00	200	Horizontal	Pass
2	2841.500	44.67	74.0	29.33	Peak	148.00	300	Horizontal	Pass
2**	2841.500	35.40	54.0	18.60	AV	148.00	300	Horizontal	Pass
3	4259.800	49.03	74.0	24.97	Peak	359.00	100	Horizontal	Pass
3**	4259.800	39.97	54.0	14.03	AV	359.00	100	Horizontal	Pass
4	5214.000	94.27	--	--	Peak	308.00	200	Horizontal	N/A
4**	5214.000	86.63	--	--	AV	308.00	200	Horizontal	N/A
5	7425.500	48.38	74.0	25.62	Peak	360.00	200	Horizontal	Pass
5**	7425.500	39.30	54.0	14.70	AV	360.00	200	Horizontal	Pass
6	12232.787	51.71	74.0	22.29	Peak	348.00	100	Horizontal	Pass
6**	12232.787	42.52	54.0	11.48	AV	348.00	100	Horizontal	Pass

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

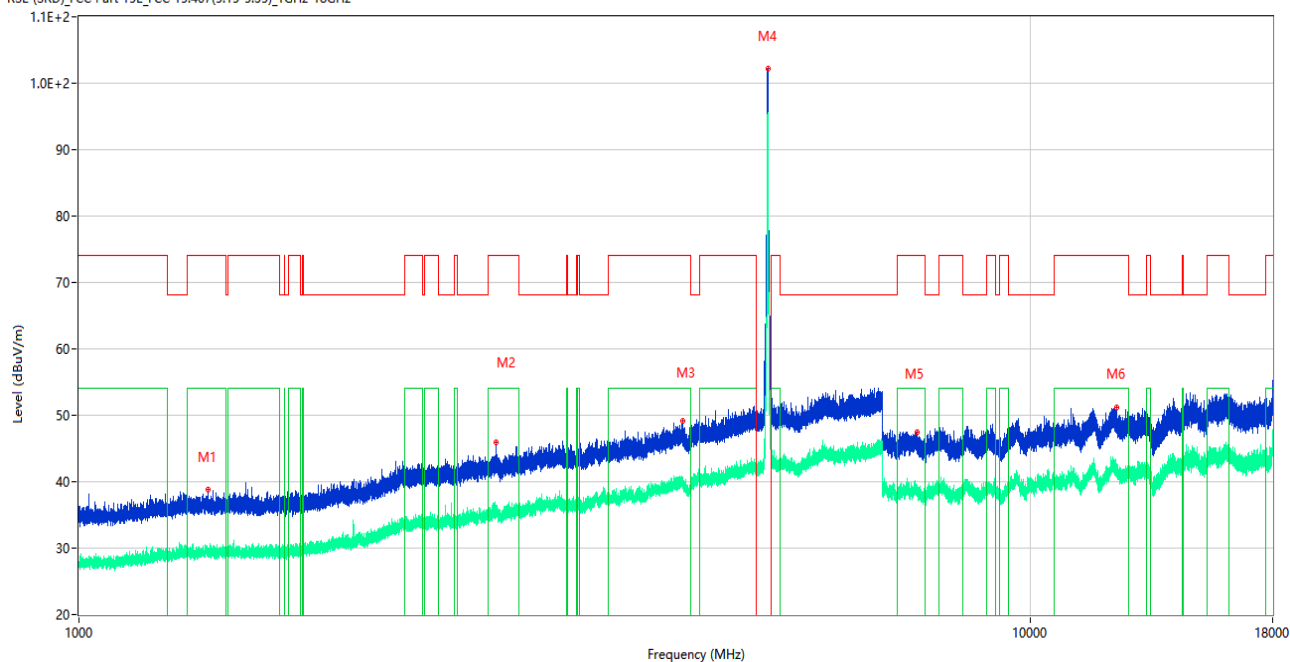
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1409.700	40.14	74.0	33.86	Peak	192.00	200	Vertical	Pass
1**	1409.700	31.01	54.0	22.99	AV	192.00	200	Vertical	Pass
2	2724.100	44.62	74.0	29.38	Peak	298.00	300	Vertical	Pass
2**	2724.100	35.48	54.0	18.52	AV	298.00	300	Vertical	Pass
3	4277.400	49.21	74.0	24.79	Peak	316.00	150	Vertical	Pass
3**	4277.400	39.64	54.0	14.36	AV	316.00	150	Vertical	Pass
4	5215.400	93.67	--	--	Peak	135.00	200	Vertical	N/A
4**	5215.400	85.61	--	--	AV	135.00	200	Vertical	N/A
5	7568.388	48.24	74.0	25.76	Peak	266.00	100	Vertical	Pass
5**	7568.388	39.81	54.0	14.19	AV	266.00	100	Vertical	Pass
6	12197.137	51.15	74.0	22.85	Peak	174.00	300	Vertical	Pass
6**	12197.137	42.23	54.0	11.77	AV	174.00	300	Vertical	Pass

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

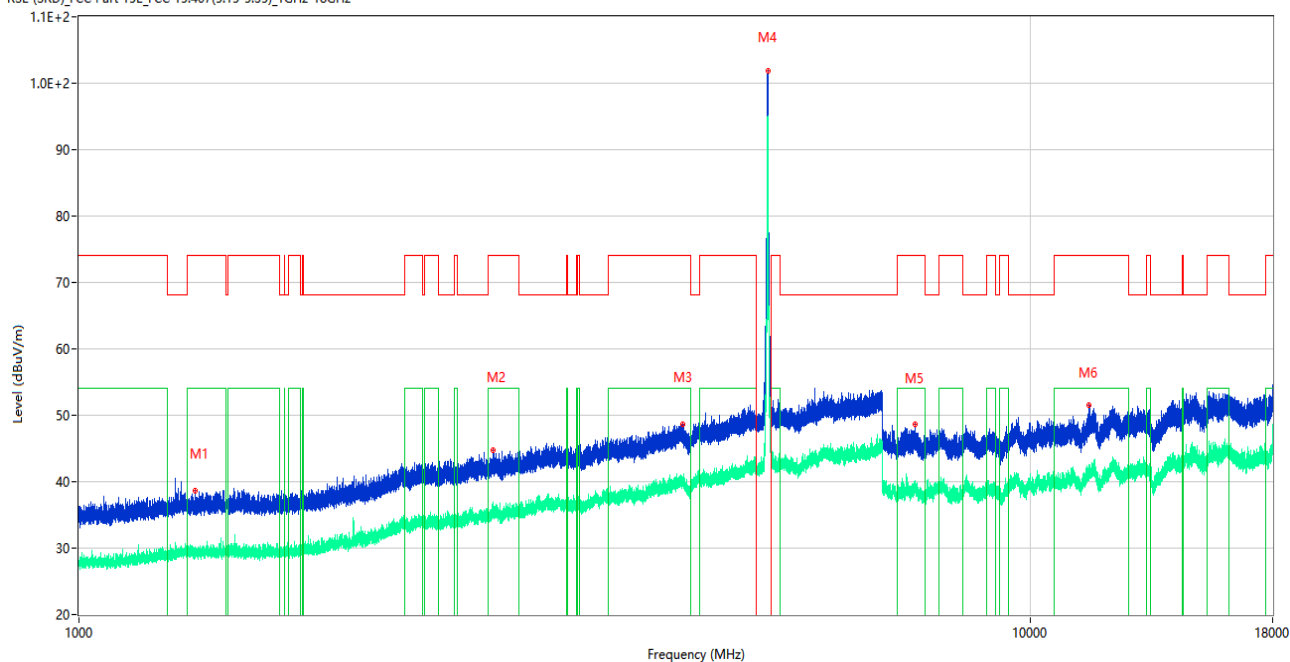
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1367.400	38.81	74.0	35.19	Peak	354.00	100	Horizontal	Pass
1**	1367.400	29.25	54.0	24.75	AV	354.00	100	Horizontal	Pass
2	2748.200	45.92	74.0	28.08	Peak	150.00	300	Horizontal	Pass
2**	2748.200	35.82	54.0	18.18	AV	150.00	300	Horizontal	Pass
3	4313.600	49.18	74.0	24.82	Peak	269.00	200	Horizontal	Pass
3**	4313.600	39.73	54.0	14.27	AV	269.00	200	Horizontal	Pass
4	5301.400	102.18	--	--	Peak	337.00	200	Horizontal	N/A
4**	5301.400	95.20	--	--	AV	337.00	200	Horizontal	N/A
5	7613.813	47.53	74.0	26.47	Peak	0.00	100	Horizontal	Pass
5**	7613.813	38.65	54.0	15.35	AV	0.00	100	Horizontal	Pass
6	12336.287	51.19	74.0	22.81	Peak	218.00	200	Horizontal	Pass
6**	12336.287	41.88	54.0	12.12	AV	218.00	200	Horizontal	Pass

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

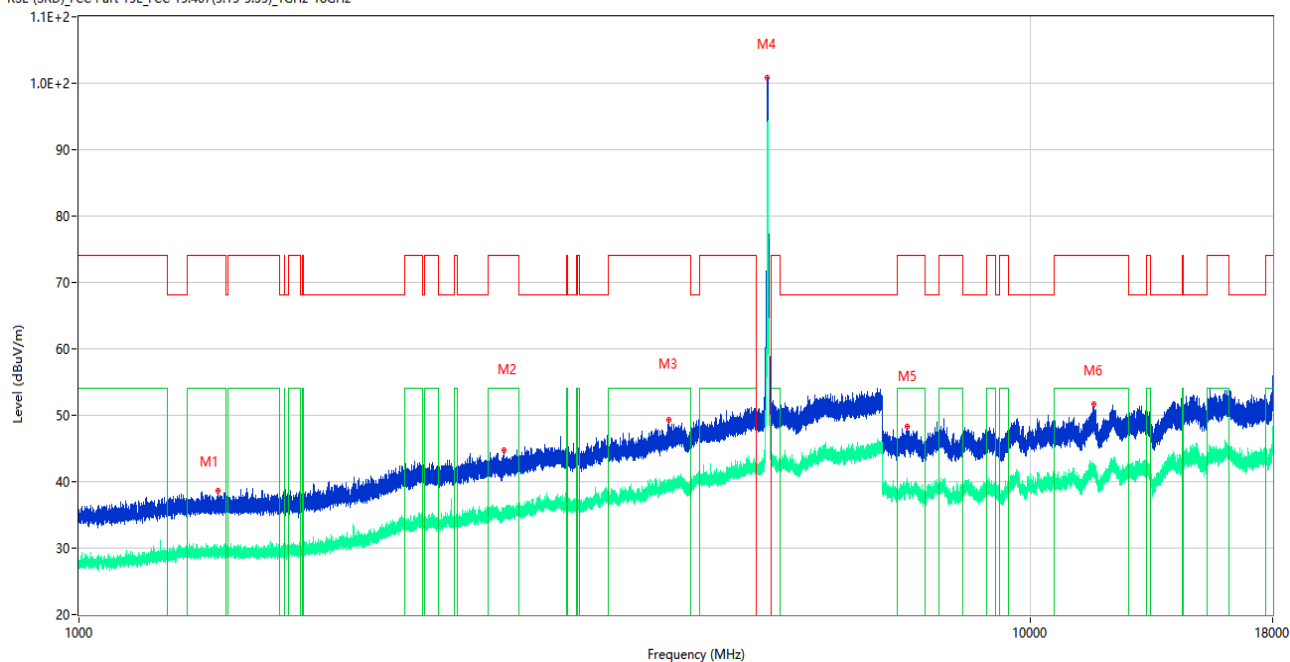
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1324.500	38.70	74.0	35.30	Peak	294.00	100	Vertical	Pass
1**	1324.500	28.95	54.0	25.05	AV	294.00	100	Vertical	Pass
2	2728.100	44.81	74.0	29.19	Peak	35.00	100	Vertical	Pass
2**	2728.100	35.95	54.0	18.05	AV	35.00	100	Vertical	Pass
3	4311.800	48.65	74.0	25.35	Peak	360.00	100	Vertical	Pass
3**	4311.800	40.18	54.0	13.82	AV	360.00	100	Vertical	Pass
4	5302.400	101.87	--	--	Peak	5.00	300	Vertical	N/A
4**	5302.400	94.84	--	--	AV	5.00	300	Vertical	N/A
5	7582.188	48.67	74.0	25.33	Peak	160.00	150	Vertical	Pass
5**	7582.188	38.78	54.0	15.22	AV	160.00	150	Vertical	Pass
6	11524.388	51.52	74.0	22.48	Peak	315.00	400	Vertical	Pass
6**	11524.388	41.39	54.0	12.61	AV	315.00	400	Vertical	Pass

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

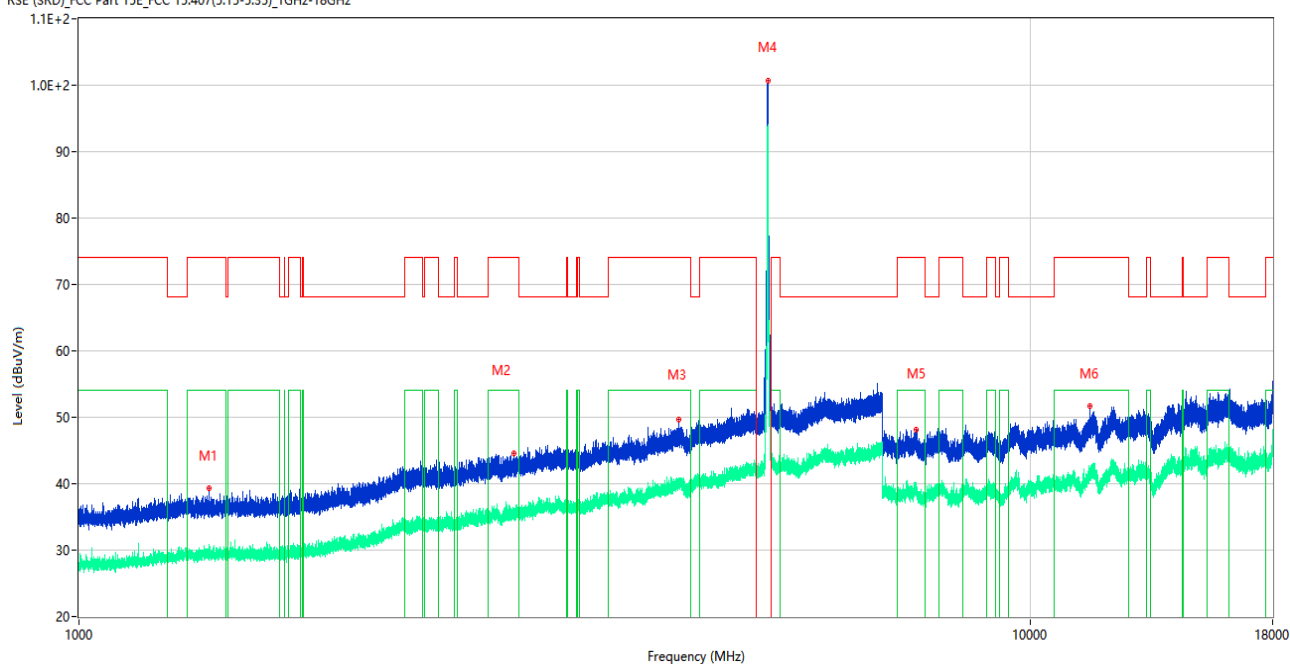
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1399.300	38.62	74.0	35.38	Peak	172.00	200	Horizontal	Pass
1**	1399.300	29.14	54.0	24.86	AV	172.00	200	Horizontal	Pass
2	2797.800	44.80	74.0	29.20	Peak	134.00	200	Horizontal	Pass
2**	2797.800	35.67	54.0	18.33	AV	134.00	200	Horizontal	Pass
3	4167.800	49.29	74.0	24.71	Peak	360.00	100	Horizontal	Pass
3**	4167.800	39.51	54.0	14.49	AV	360.00	100	Horizontal	Pass
4	5298.600	100.89	--	--	Peak	339.00	200	Horizontal	N/A
4**	5298.600	93.57	--	--	AV	339.00	200	Horizontal	N/A
5	7427.800	48.32	74.0	25.68	Peak	359.00	150	Horizontal	Pass
5**	7427.800	39.90	54.0	14.10	AV	359.00	150	Horizontal	Pass
6	11682.800	51.73	74.0	22.27	Peak	0.00	400	Horizontal	Pass
6**	11682.800	41.69	54.0	12.31	AV	0.00	400	Horizontal	Pass

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

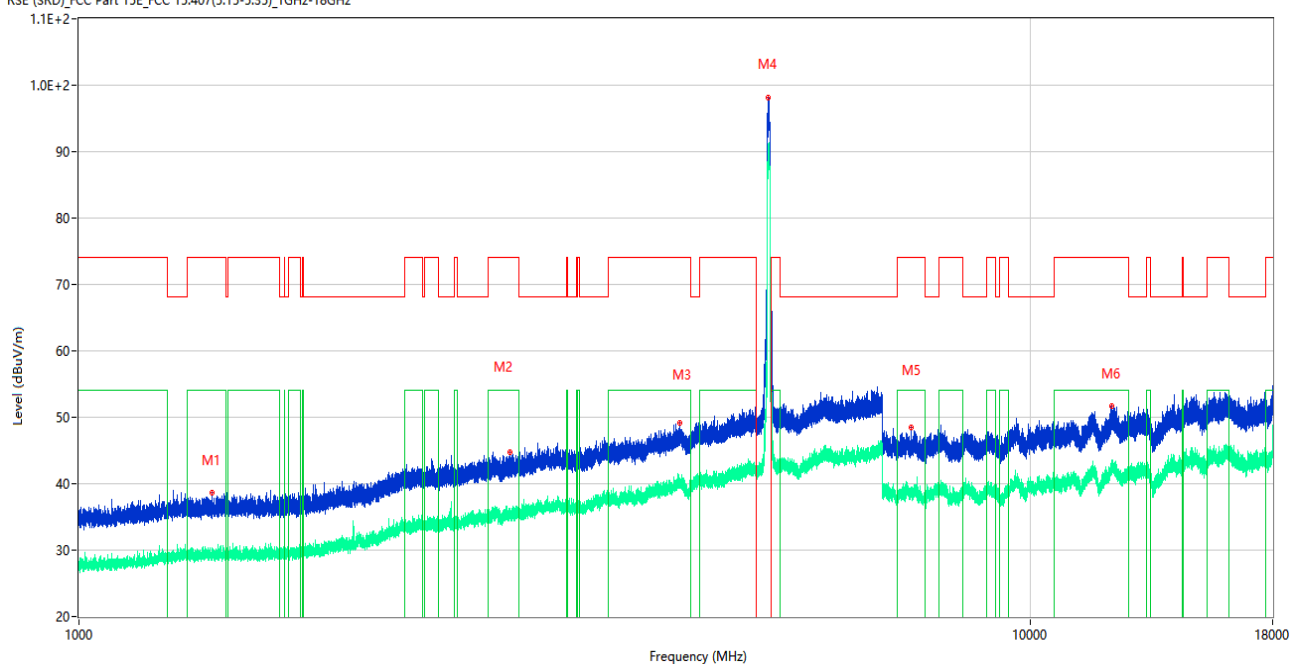
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1369.500	39.30	74.0	34.70	Peak	110.00	100	Vertical	Pass
1**	1369.500	29.12	54.0	24.88	AV	110.00	100	Vertical	Pass
2	2864.100	44.52	74.0	29.48	Peak	331.00	100	Vertical	Pass
2**	2864.100	35.54	54.0	18.46	AV	331.00	100	Vertical	Pass
3	4273.800	49.70	74.0	24.30	Peak	360.00	100	Vertical	Pass
3**	4273.800	39.64	54.0	14.36	AV	360.00	100	Vertical	Pass
4	5301.200	100.71	--	--	Peak	5.00	300	Vertical	N/A
4**	5301.200	93.64	--	--	AV	5.00	300	Vertical	N/A
5	7594.263	48.12	74.0	25.88	Peak	0.00	200	Vertical	Pass
5**	7594.263	38.46	54.0	15.54	AV	0.00	200	Vertical	Pass
6	11563.201	51.63	74.0	22.37	Peak	141.00	100	Vertical	Pass
6**	11563.201	40.62	54.0	13.38	AV	141.00	100	Vertical	Pass

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

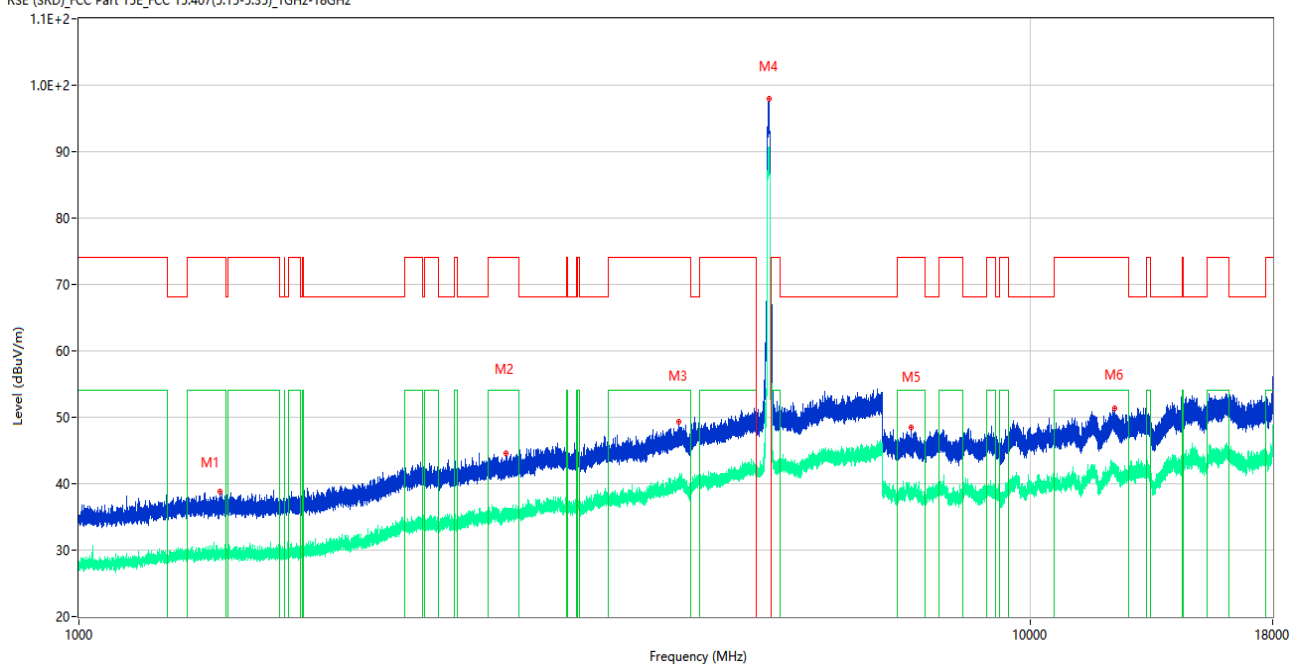
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1381.600	38.62	74.0	35.38	Peak	360.00	200	Horizontal	Pass
1**	1381.600	29.02	54.0	24.98	AV	360.00	200	Horizontal	Pass
2	2836.400	44.75	74.0	29.25	Peak	137.00	300	Horizontal	Pass
2**	2836.400	35.40	54.0	18.60	AV	137.00	300	Horizontal	Pass
3	4286.600	49.09	74.0	24.91	Peak	291.00	200	Horizontal	Pass
3**	4286.600	39.72	54.0	14.28	AV	291.00	200	Horizontal	Pass
4	5307.200	98.18	--	--	Peak	335.00	300	Horizontal	N/A
4**	5307.200	90.32	--	--	AV	335.00	300	Horizontal	N/A
5	7508.300	48.47	74.0	25.53	Peak	2.00	100	Horizontal	Pass
5**	7508.300	38.93	54.0	15.07	AV	2.00	100	Horizontal	Pass
6	12183.338	51.62	74.0	22.38	Peak	309.00	400	Horizontal	Pass
6**	12183.338	42.16	54.0	11.84	AV	309.00	400	Horizontal	Pass

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

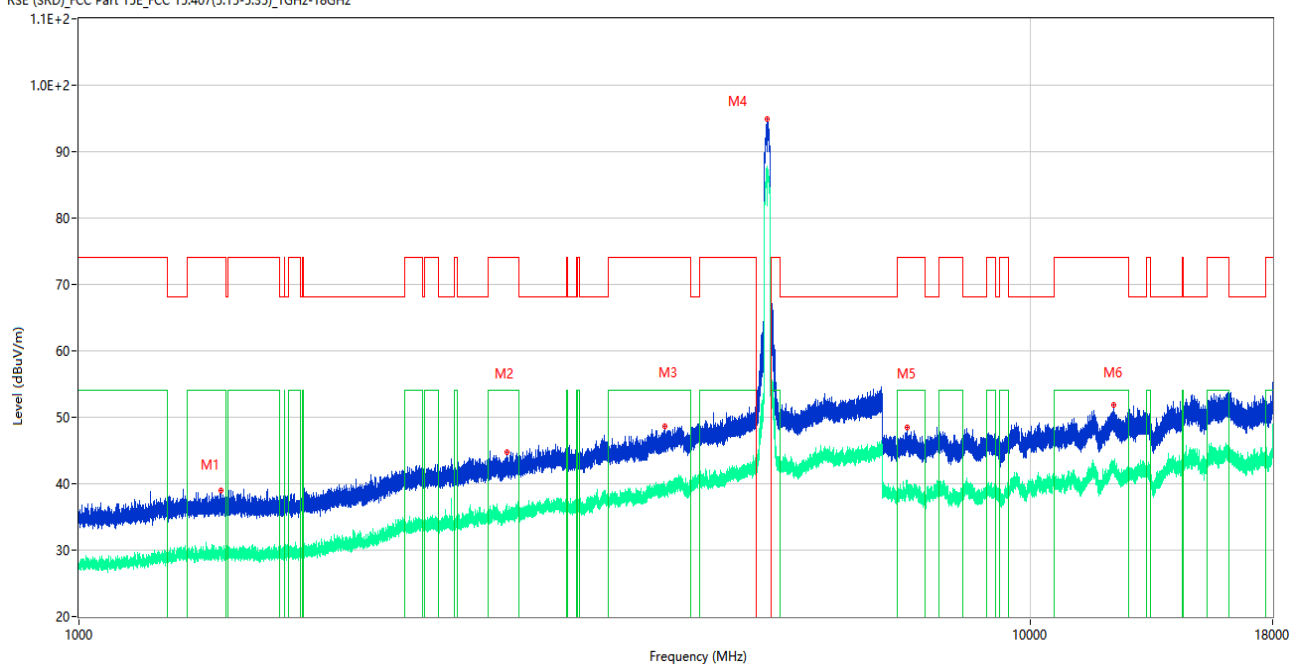
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1407.000	38.77	74.0	35.23	Peak	293.00	100	Vertical	Pass
1**	1407.000	29.57	54.0	24.43	AV	293.00	100	Vertical	Pass
2	2809.000	44.61	74.0	29.39	Peak	112.00	300	Vertical	Pass
2**	2809.000	34.69	54.0	19.31	AV	112.00	300	Vertical	Pass
3	4276.200	49.25	74.0	24.75	Peak	0.00	100	Vertical	Pass
3**	4276.200	40.74	54.0	13.26	AV	0.00	100	Vertical	Pass
4	5314.400	97.90	--	--	Peak	0.00	300	Vertical	N/A
4**	5314.400	90.05	--	--	AV	0.00	300	Vertical	N/A
5	7500.250	48.40	74.0	25.60	Peak	360.00	200	Vertical	Pass
5**	7500.250	38.65	54.0	15.35	AV	360.00	200	Vertical	Pass
6	12293.450	51.41	74.0	22.59	Peak	8.00	200	Vertical	Pass
6**	12293.450	41.63	54.0	12.37	AV	8.00	200	Vertical	Pass

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

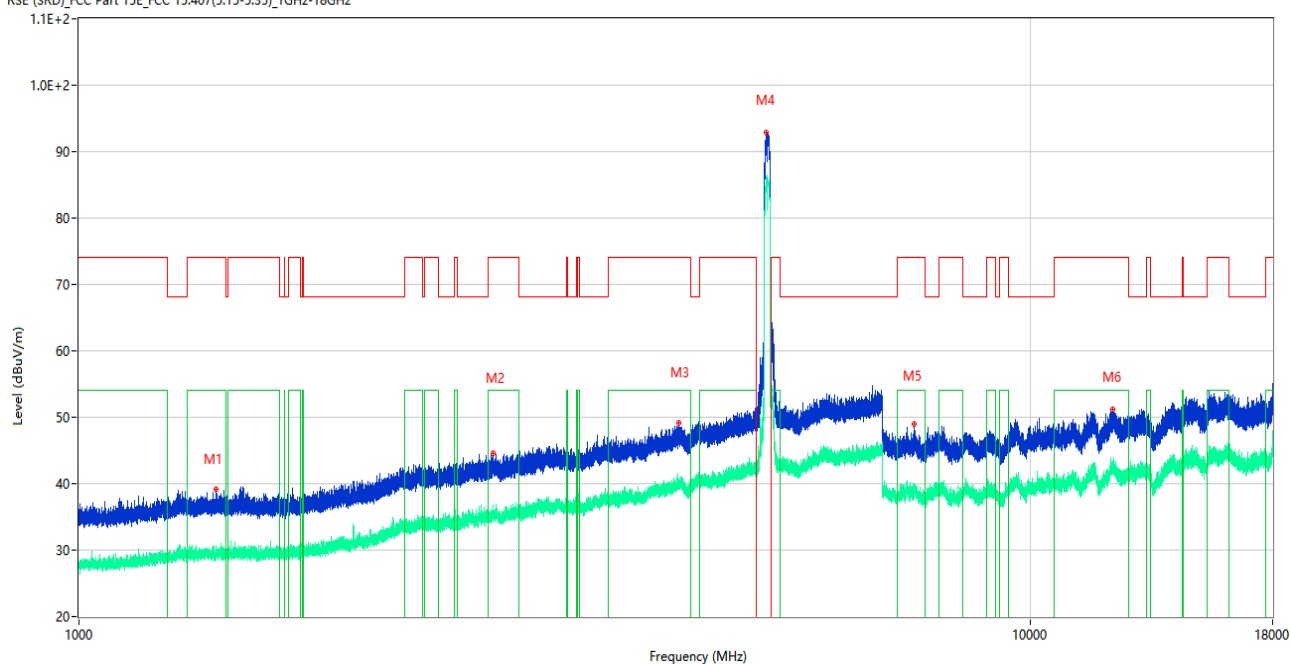
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1409.500	39.03	74.0	34.97	Peak	5.00	400	Horizontal	Pass
1**	1409.500	29.59	54.0	24.41	AV	5.00	400	Horizontal	Pass
2	2817.800	44.76	74.0	29.24	Peak	337.00	200	Horizontal	Pass
2**	2817.800	35.41	54.0	18.59	AV	337.00	200	Horizontal	Pass
3	4132.600	48.62	74.0	25.38	Peak	43.00	150	Horizontal	Pass
3**	4132.600	39.56	54.0	14.44	AV	43.00	150	Horizontal	Pass
4	5293.200	94.86	--	--	Peak	344.00	300	Horizontal	N/A
4**	5293.200	87.32	--	--	AV	344.00	300	Horizontal	N/A
5	7423.200	48.43	74.0	25.57	Peak	173.00	200	Horizontal	Pass
5**	7423.200	39.67	54.0	14.33	AV	173.00	200	Horizontal	Pass
6	12263.550	51.79	74.0	22.21	Peak	21.00	300	Horizontal	Pass
6**	12263.550	42.66	54.0	11.34	AV	21.00	300	Horizontal	Pass

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

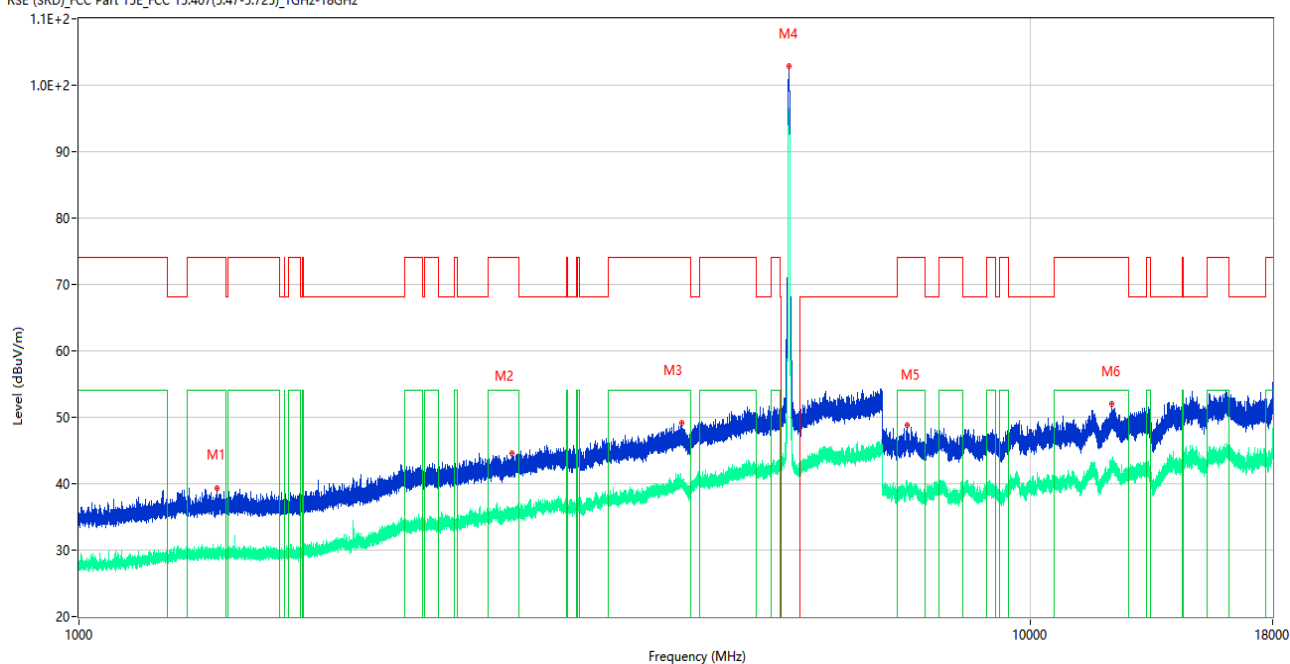
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1395.200	39.18	74.0	34.82	Peak	18.00	100	Vertical	Pass
1**	1395.200	29.18	54.0	24.82	AV	18.00	100	Vertical	Pass
2	2724.800	44.57	74.0	29.43	Peak	274.00	200	Vertical	Pass
2**	2724.800	35.47	54.0	18.53	AV	274.00	200	Vertical	Pass
3	4273.600	49.10	74.0	24.90	Peak	232.00	200	Vertical	Pass
3**	4273.600	39.93	54.0	14.07	AV	232.00	200	Vertical	Pass
4	5281.400	92.88	--	--	Peak	19.00	300	Vertical	N/A
4**	5281.400	84.98	--	--	AV	19.00	300	Vertical	N/A
5	7561.200	49.06	74.0	24.94	Peak	29.00	200	Vertical	Pass
5**	7561.200	38.31	54.0	15.69	AV	29.00	200	Vertical	Pass
6	12223.588	51.17	74.0	22.83	Peak	259.00	200	Vertical	Pass
6**	12223.588	42.29	54.0	11.71	AV	259.00	200	Vertical	Pass

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

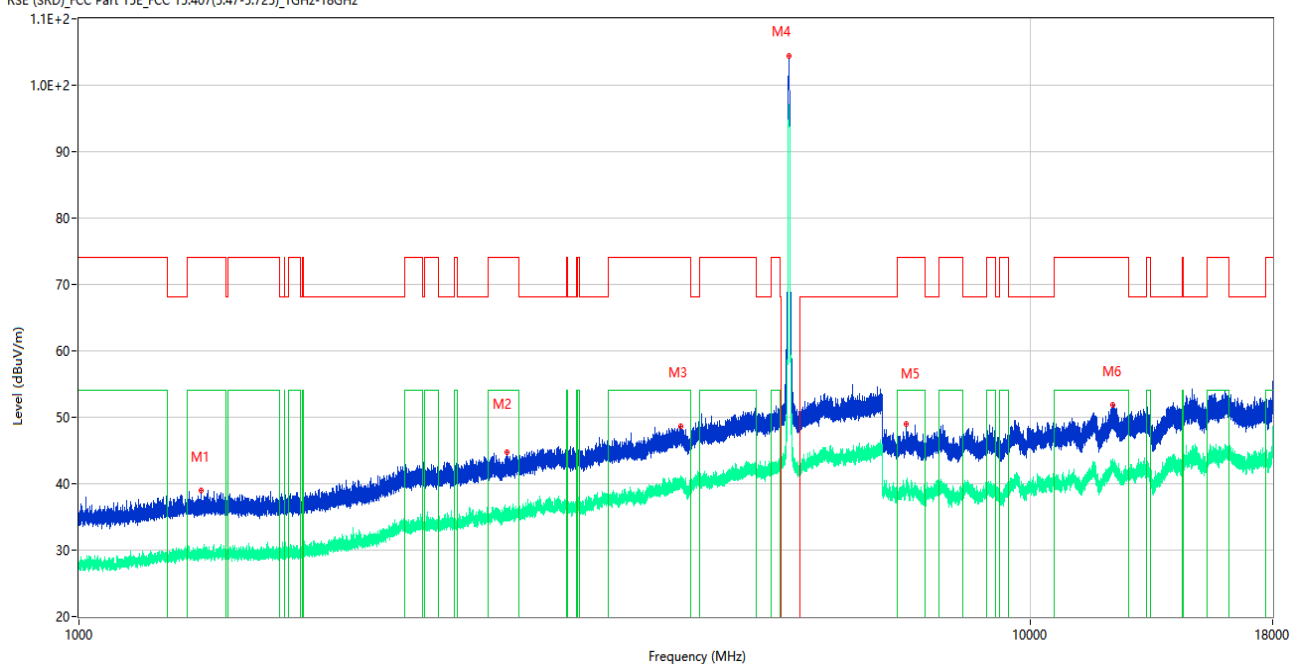
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1396.800	39.34	74.0	34.66	Peak	130.00	200	Vertical	Pass
1**	1396.800	29.69	54.0	24.31	AV	130.00	200	Vertical	Pass
2	2856.300	44.55	74.0	29.45	Peak	183.00	200	Vertical	Pass
2**	2856.300	35.60	54.0	18.40	AV	183.00	200	Vertical	Pass
3	4306.000	49.15	74.0	24.85	Peak	2.00	200	Vertical	Pass
3**	4306.000	39.54	54.0	14.46	AV	2.00	200	Vertical	Pass
4	5581.400	102.88	--	--	Peak	359.00	100	Vertical	N/A
4**	5581.400	96.27	--	--	AV	359.00	100	Vertical	N/A
5	7431.538	48.82	74.0	25.18	Peak	117.00	100	Vertical	Pass
5**	7431.538	39.88	54.0	14.12	AV	117.00	100	Vertical	Pass
6	12181.613	52.01	74.0	21.99	Peak	246.00	100	Vertical	Pass
6**	12181.613	42.34	54.0	11.66	AV	246.00	100	Vertical	Pass

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

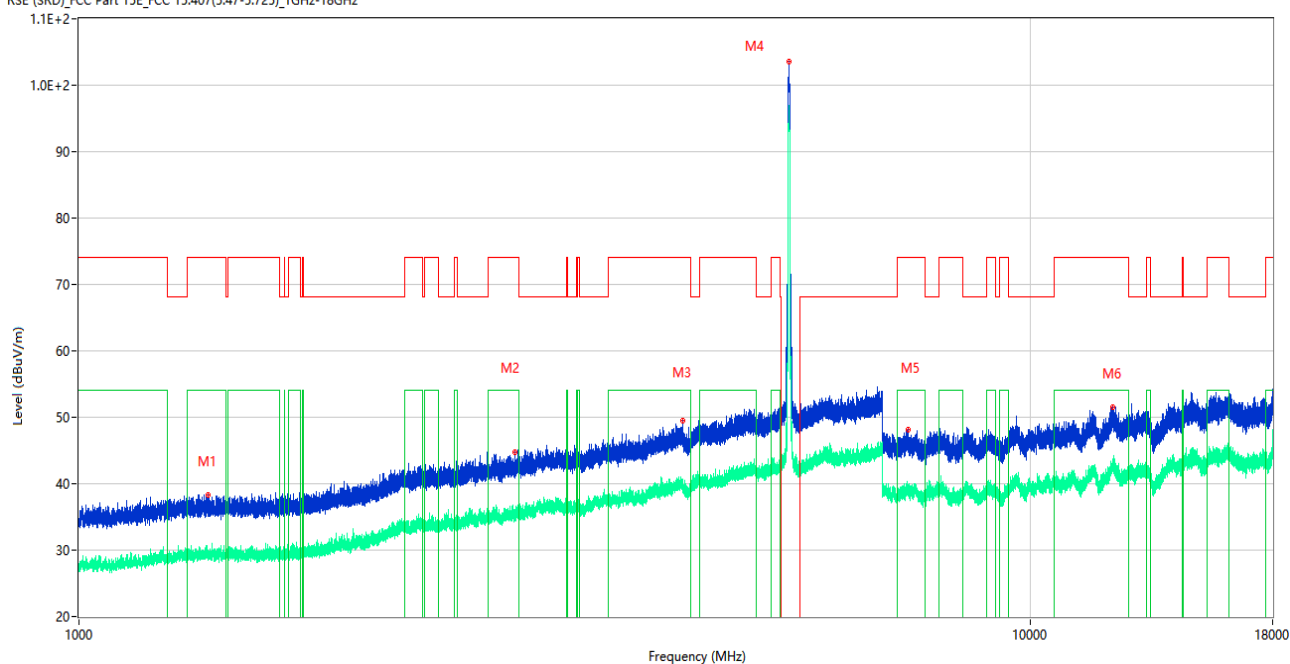
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1343.300	39.06	74.0	34.94	Peak	142.00	400	Horizontal	Pass
1**	1343.300	29.05	54.0	24.95	AV	142.00	400	Horizontal	Pass
2	2821.700	44.82	74.0	29.18	Peak	101.00	300	Horizontal	Pass
2**	2821.700	35.13	54.0	18.87	AV	101.00	300	Horizontal	Pass
3	4294.000	48.68	74.0	25.32	Peak	360.00	200	Horizontal	Pass
3**	4294.000	39.87	54.0	14.13	AV	360.00	200	Horizontal	Pass
4	5578.600	104.39	--	--	Peak	352.00	200	Horizontal	N/A
4**	5578.600	96.86	--	--	AV	352.00	200	Horizontal	N/A
5	7410.550	48.92	74.0	25.08	Peak	359.00	200	Horizontal	Pass
5**	7410.550	39.33	54.0	14.67	AV	359.00	200	Horizontal	Pass
6	12224.451	51.94	74.0	22.06	Peak	292.00	200	Horizontal	Pass
6**	12224.451	42.87	54.0	11.13	AV	292.00	200	Horizontal	Pass

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

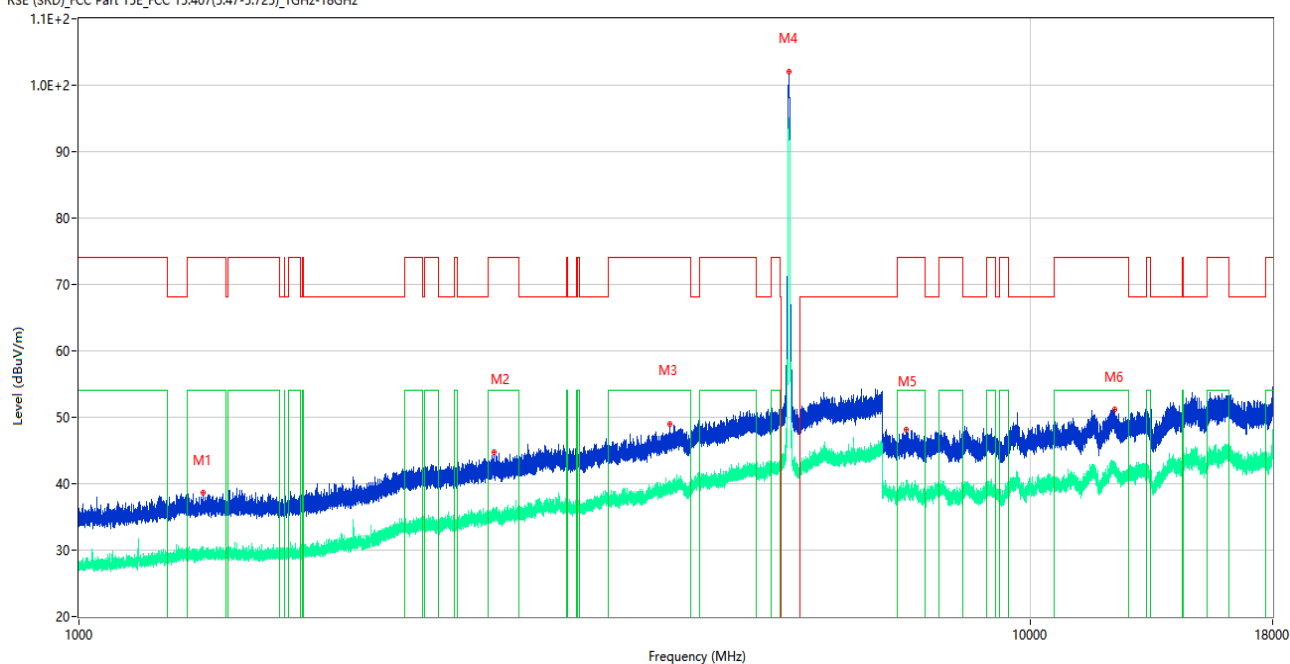
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1367.100	38.39	74.0	35.61	Peak	220.00	300	Horizontal	Pass
1**	1367.100	29.68	54.0	24.32	AV	220.00	300	Horizontal	Pass
2	2875.900	44.69	74.0	29.31	Peak	162.00	100	Horizontal	Pass
2**	2875.900	35.46	54.0	18.54	AV	162.00	100	Horizontal	Pass
3	4313.800	49.41	74.0	24.59	Peak	32.00	150	Horizontal	Pass
3**	4313.800	39.80	54.0	14.20	AV	32.00	150	Horizontal	Pass
4	5578.000	103.63	--	--	Peak	351.00	100	Horizontal	N/A
4**	5578.000	96.02	--	--	AV	351.00	100	Horizontal	N/A
5	7445.338	48.08	74.0	25.92	Peak	298.00	100	Horizontal	Pass
5**	7445.338	39.02	54.0	14.98	AV	298.00	100	Horizontal	Pass
6	12221.862	51.61	74.0	22.39	Peak	353.00	200	Horizontal	Pass
6**	12221.862	42.18	54.0	11.82	AV	353.00	200	Horizontal	Pass

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

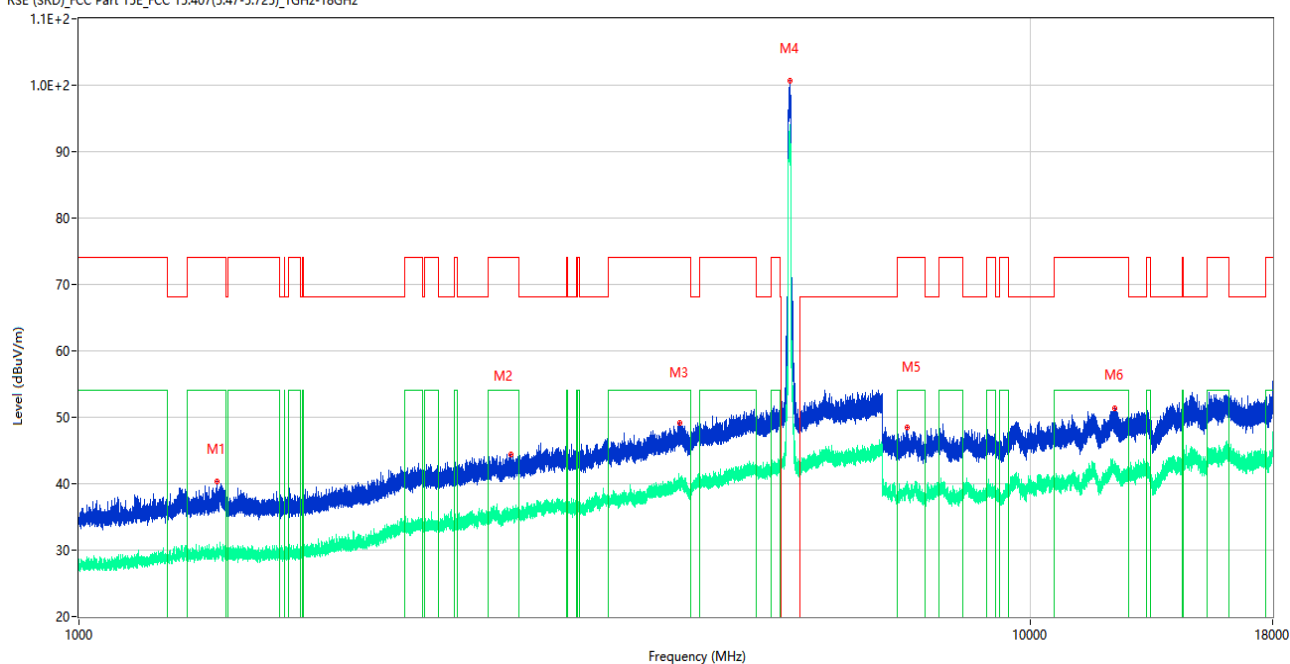
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1350.100	38.56	74.0	35.44	Peak	342.00	100	Vertical	Pass
1**	1350.100	29.59	54.0	24.41	AV	342.00	100	Vertical	Pass
2	2730.700	44.74	74.0	29.26	Peak	68.00	200	Vertical	Pass
2**	2730.700	34.44	54.0	19.56	AV	68.00	200	Vertical	Pass
3	4182.400	48.92	74.0	25.08	Peak	334.00	100	Vertical	Pass
3**	4182.400	39.01	54.0	14.99	AV	334.00	100	Vertical	Pass
4	5581.200	102.08	--	--	Peak	357.00	200	Vertical	N/A
4**	5581.200	94.81	--	--	AV	357.00	200	Vertical	N/A
5	7412.562	48.21	74.0	25.79	Peak	57.00	200	Vertical	Pass
5**	7412.562	39.30	54.0	14.70	AV	57.00	200	Vertical	Pass
6	12284.826	51.18	74.0	22.82	Peak	216.00	300	Vertical	Pass
6**	12284.826	42.00	54.0	12.00	AV	216.00	300	Vertical	Pass

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

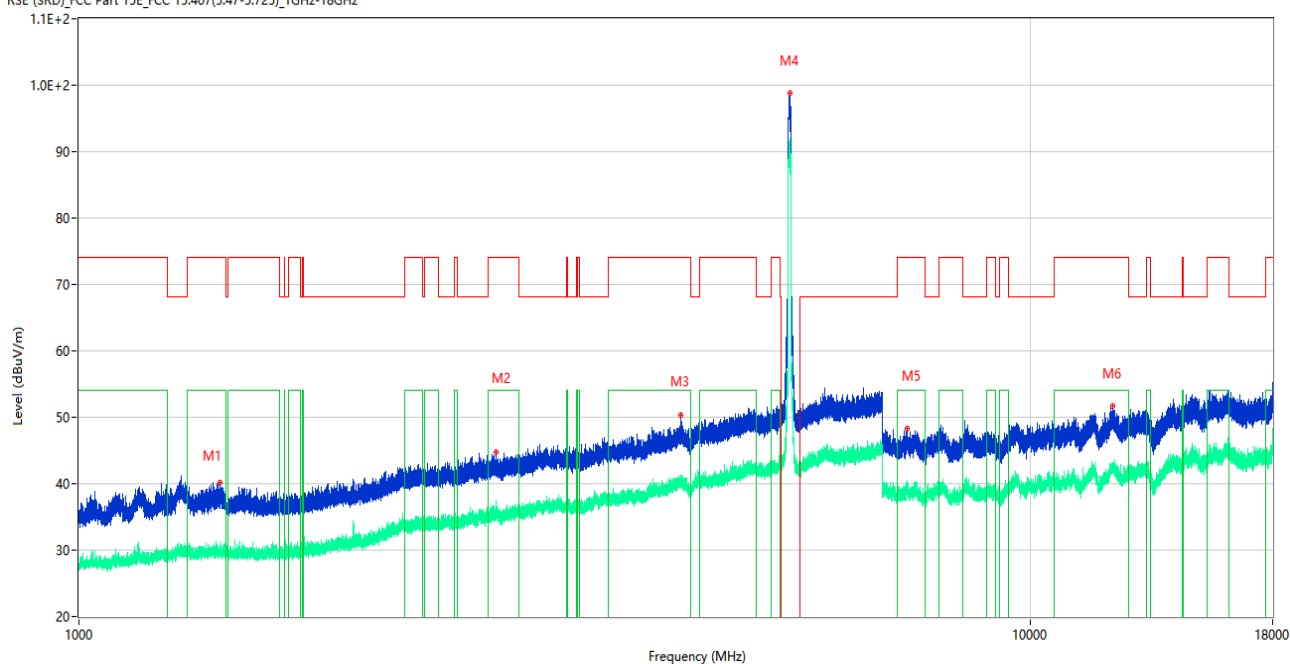
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1396.600	40.33	74.0	33.67	Peak	230.00	100	Horizontal	Pass
1**	1396.600	29.90	54.0	24.10	AV	230.00	100	Horizontal	Pass
2	2844.200	44.38	74.0	29.62	Peak	230.00	100	Horizontal	Pass
2**	2844.200	34.85	54.0	19.15	AV	230.00	100	Horizontal	Pass
3	4286.000	49.17	74.0	24.83	Peak	58.00	100	Horizontal	Pass
3**	4286.000	39.57	54.0	14.43	AV	58.00	100	Horizontal	Pass
4	5588.400	100.64	--	--	Peak	351.00	400	Horizontal	N/A
4**	5588.400	92.69	--	--	AV	351.00	400	Horizontal	N/A
5	7420.900	48.47	74.0	25.53	Peak	0.00	100	Horizontal	Pass
5**	7420.900	39.23	54.0	14.77	AV	0.00	100	Horizontal	Pass
6	12282.526	51.41	74.0	22.59	Peak	0.00	100	Horizontal	Pass
6**	12282.526	41.70	54.0	12.30	AV	0.00	100	Horizontal	Pass

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

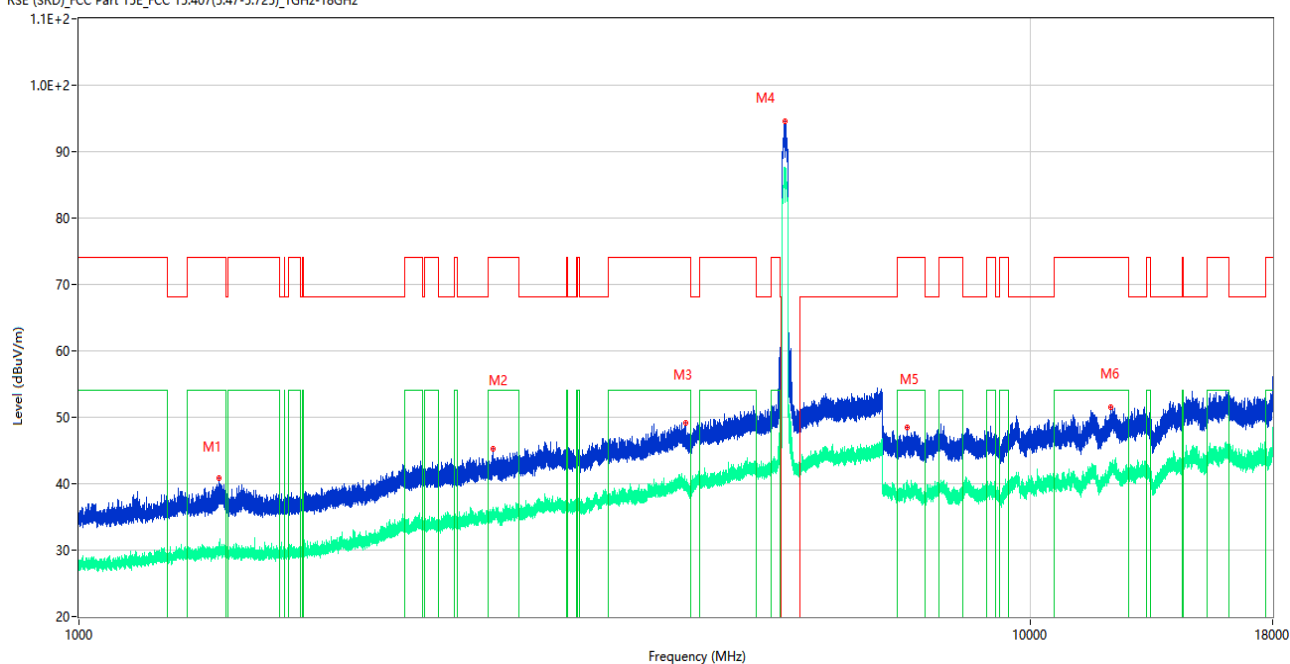
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1406.000	40.25	74.0	33.75	Peak	267.00	200	Vertical	Pass
1**	1406.000	29.62	54.0	24.38	AV	267.00	200	Vertical	Pass
2	2747.800	44.79	74.0	29.21	Peak	107.00	300	Vertical	Pass
2**	2747.800	35.90	54.0	18.10	AV	107.00	300	Vertical	Pass
3	4293.800	50.36	74.0	23.64	Peak	16.00	200	Vertical	Pass
3**	4293.800	40.05	54.0	13.95	AV	16.00	200	Vertical	Pass
4	5591.600	98.75	--	--	Peak	2.00	300	Vertical	N/A
4**	5591.600	91.92	--	--	AV	2.00	300	Vertical	N/A
5	7425.787	48.24	74.0	25.76	Peak	358.00	100	Vertical	Pass
5**	7425.787	39.36	54.0	14.64	AV	358.00	100	Vertical	Pass
6	12221.000	51.61	74.0	22.39	Peak	96.00	200	Vertical	Pass
6**	12221.000	42.46	54.0	11.54	AV	96.00	200	Vertical	Pass

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

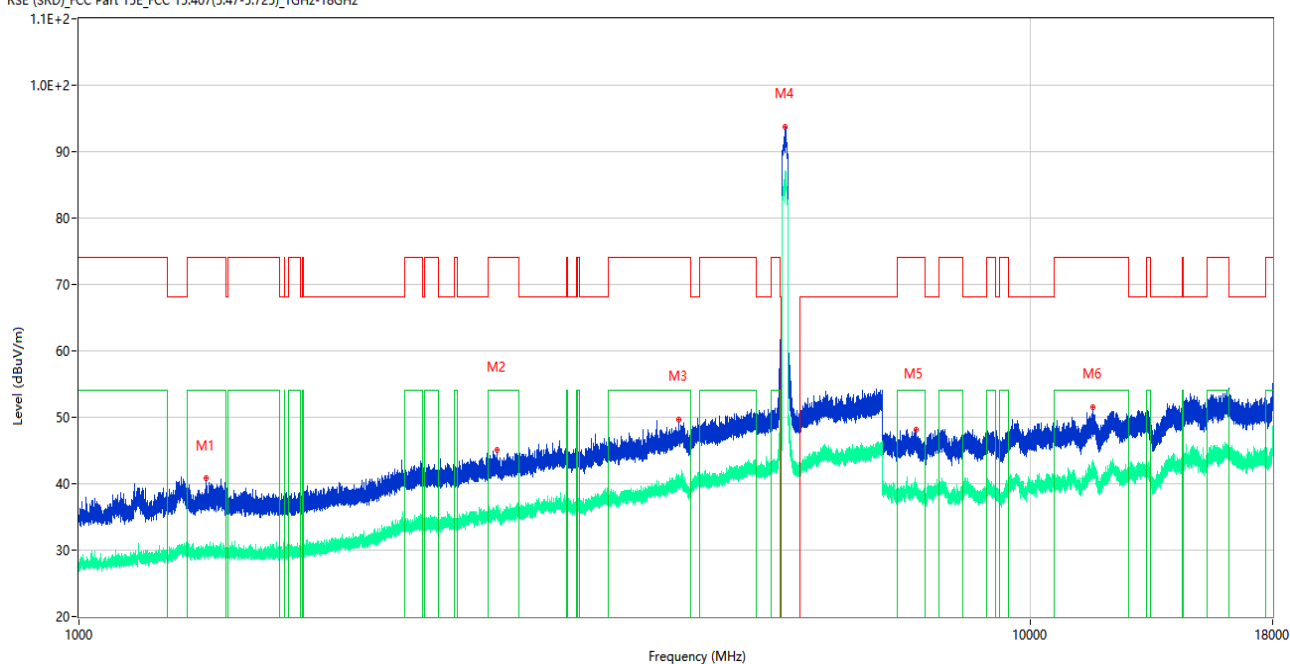
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1405.200	40.86	74.0	33.14	Peak	0.00	100	Horizontal	Pass
1**	1405.200	29.83	54.0	24.17	AV	0.00	100	Horizontal	Pass
2	2726.300	45.19	74.0	28.81	Peak	326.00	300	Horizontal	Pass
2**	2726.300	35.22	54.0	18.78	AV	326.00	300	Horizontal	Pass
3	4349.800	49.23	74.0	24.77	Peak	295.00	150	Horizontal	Pass
3**	4349.800	39.53	54.0	14.47	AV	295.00	150	Horizontal	Pass
4	5526.400	94.54	--	--	Peak	306.00	100	Horizontal	N/A
4**	5526.400	87.25	--	--	AV	306.00	100	Horizontal	N/A
5	7428.375	48.50	74.0	25.50	Peak	174.00	150	Horizontal	Pass
5**	7428.375	39.67	54.0	14.33	AV	174.00	150	Horizontal	Pass
6	12174.713	51.58	74.0	22.42	Peak	110.00	300	Horizontal	Pass
6**	12174.713	43.30	54.0	10.70	AV	110.00	300	Horizontal	Pass

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

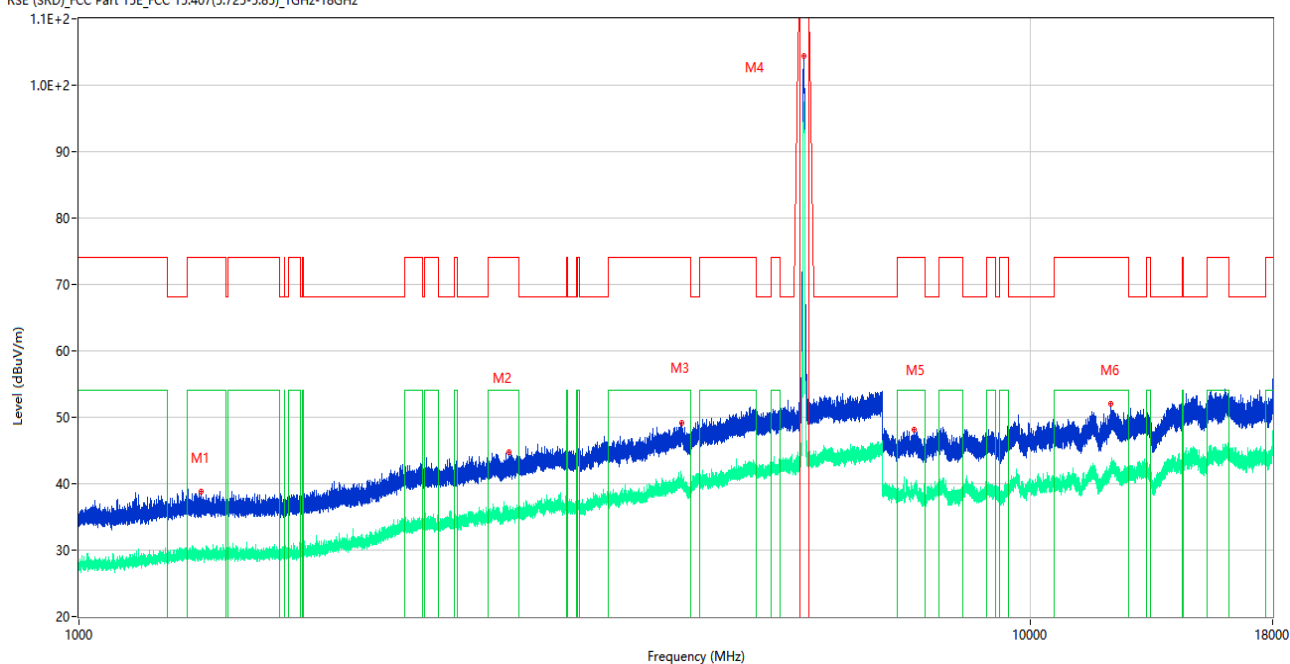
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1360.500	40.76	74.0	33.24	Peak	251.00	400	Vertical	Pass
1**	1360.500	30.21	54.0	23.79	AV	251.00	400	Vertical	Pass
2	2749.300	45.06	74.0	28.94	Peak	260.00	400	Vertical	Pass
2**	2749.300	35.61	54.0	18.39	AV	260.00	400	Vertical	Pass
3	4271.200	49.74	74.0	24.26	Peak	250.00	150	Vertical	Pass
3**	4271.200	40.54	54.0	13.46	AV	250.00	150	Vertical	Pass
4	5527.800	93.79	--	--	Peak	2.00	400	Vertical	N/A
4**	5527.800	86.39	--	--	AV	2.00	400	Vertical	N/A
5	7590.237	48.09	74.0	25.91	Peak	352.00	200	Vertical	Pass
5**	7590.237	39.25	54.0	14.75	AV	352.00	200	Vertical	Pass
6	11637.088	51.55	74.0	22.45	Peak	312.00	300	Vertical	Pass
6**	11637.088	42.66	54.0	11.34	AV	312.00	300	Vertical	Pass

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

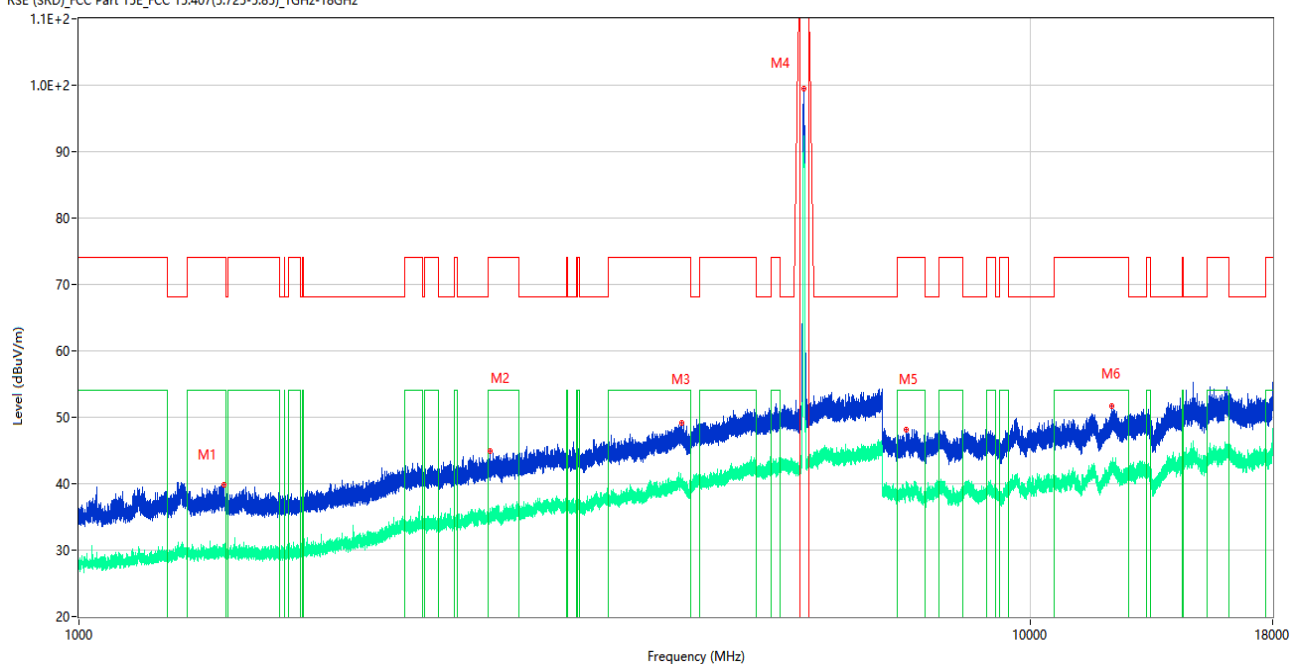
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1343.400	38.86	74.0	35.14	Peak	358.00	100	Horizontal	Pass
1**	1343.400	28.93	54.0	25.07	AV	358.00	100	Horizontal	Pass
2	2834.400	44.70	74.0	29.30	Peak	89.00	200	Horizontal	Pass
2**	2834.400	35.65	54.0	18.35	AV	89.00	200	Horizontal	Pass
3	4301.400	49.16	74.0	24.84	Peak	306.00	150	Horizontal	Pass
3**	4301.400	39.75	54.0	14.25	AV	306.00	150	Horizontal	Pass
4	5783.200	104.34	--	--	Peak	339.00	300	Horizontal	N/A
4**	5783.200	96.60	--	--	AV	339.00	300	Horizontal	N/A
5	7547.975	48.22	74.0	25.78	Peak	18.00	150	Horizontal	Pass
5**	7547.975	38.22	54.0	15.78	AV	18.00	150	Horizontal	Pass
6	12165.512	52.08	74.0	21.92	Peak	202.00	400	Horizontal	Pass
6**	12165.512	42.23	54.0	11.77	AV	202.00	400	Horizontal	Pass

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

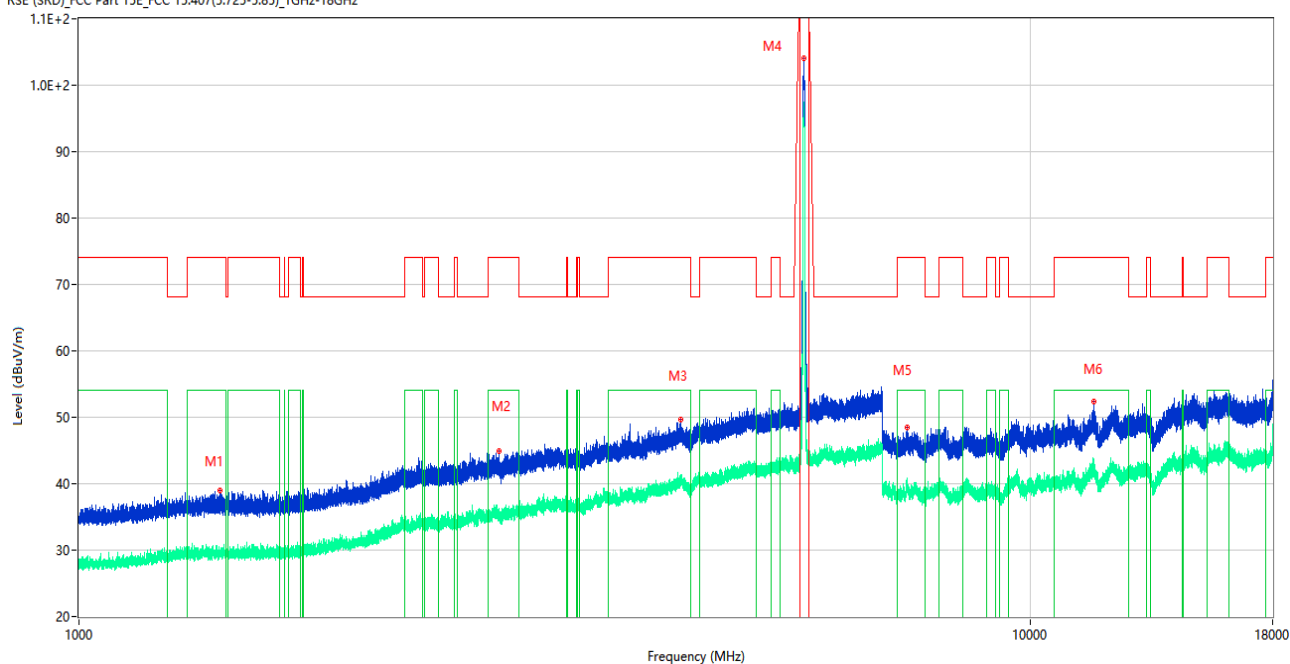
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1420.500	39.77	74.0	34.23	Peak	338.00	300	Vertical	Pass
1**	1420.500	29.33	54.0	24.67	AV	338.00	300	Vertical	Pass
2	2705.700	44.97	74.0	29.03	Peak	320.00	400	Vertical	Pass
2**	2705.700	35.12	54.0	18.88	AV	320.00	400	Vertical	Pass
3	4309.200	49.22	74.0	24.78	Peak	217.00	100	Vertical	Pass
3**	4309.200	39.76	54.0	14.24	AV	217.00	100	Vertical	Pass
4	5786.400	99.48	--	--	Peak	262.00	400	Vertical	N/A
4**	5786.400	91.67	--	--	AV	262.00	400	Vertical	N/A
5	7420.325	48.21	74.0	25.79	Peak	204.00	100	Vertical	Pass
5**	7420.325	39.09	54.0	14.91	AV	204.00	100	Vertical	Pass
6	12206.913	51.65	74.0	22.35	Peak	237.00	200	Vertical	Pass
6**	12206.913	42.25	54.0	11.75	AV	237.00	200	Vertical	Pass

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

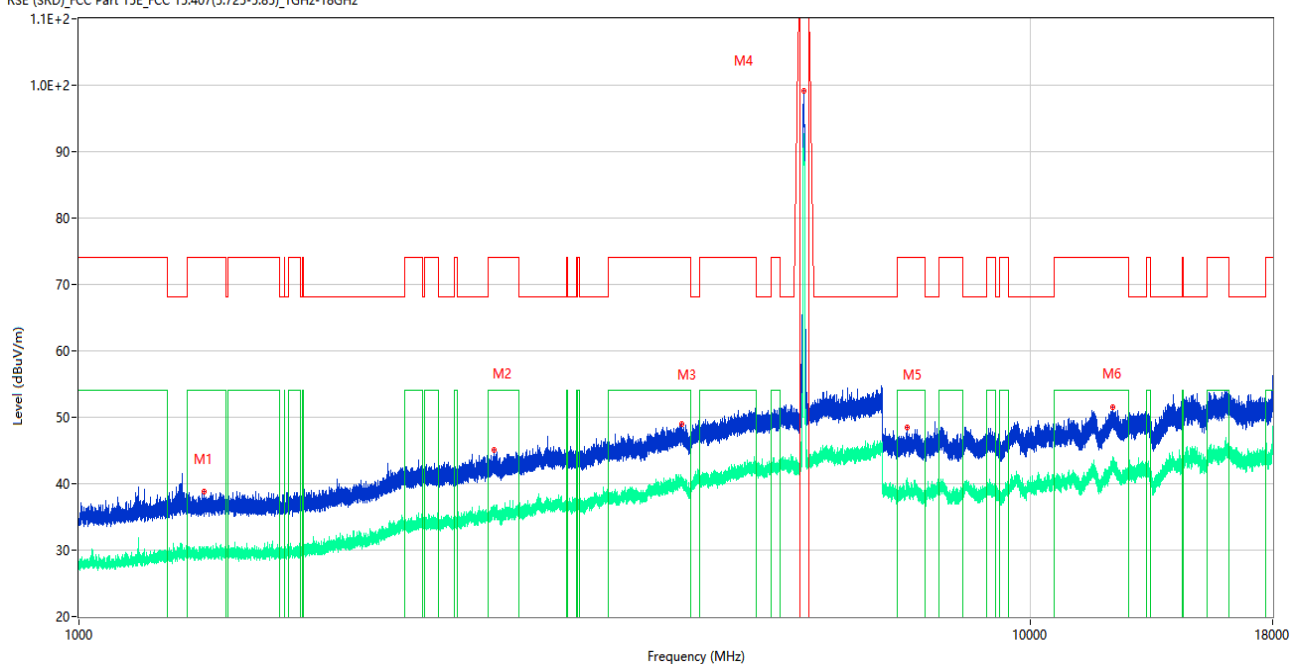
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1405.700	39.03	74.0	34.97	Peak	11.00	100	Horizontal	Pass
1**	1405.700	29.88	54.0	24.12	AV	11.00	100	Horizontal	Pass
2	2764.800	44.92	74.0	29.08	Peak	11.00	100	Horizontal	Pass
2**	2764.800	34.57	54.0	19.43	AV	11.00	100	Horizontal	Pass
3	4297.800	49.72	74.0	24.28	Peak	54.00	150	Horizontal	Pass
3**	4297.800	40.10	54.0	13.90	AV	54.00	150	Horizontal	Pass
4	5786.000	103.98	--	--	Peak	344.00	200	Horizontal	N/A
4**	5786.000	96.56	--	--	AV	344.00	200	Horizontal	N/A
5	7423.487	48.51	74.0	25.49	Peak	110.00	200	Horizontal	Pass
5**	7423.487	40.51	54.0	13.49	AV	110.00	200	Horizontal	Pass
6	11683.375	52.36	74.0	21.64	Peak	0.00	100	Horizontal	Pass
6**	11683.375	42.34	54.0	11.66	AV	0.00	100	Horizontal	Pass

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

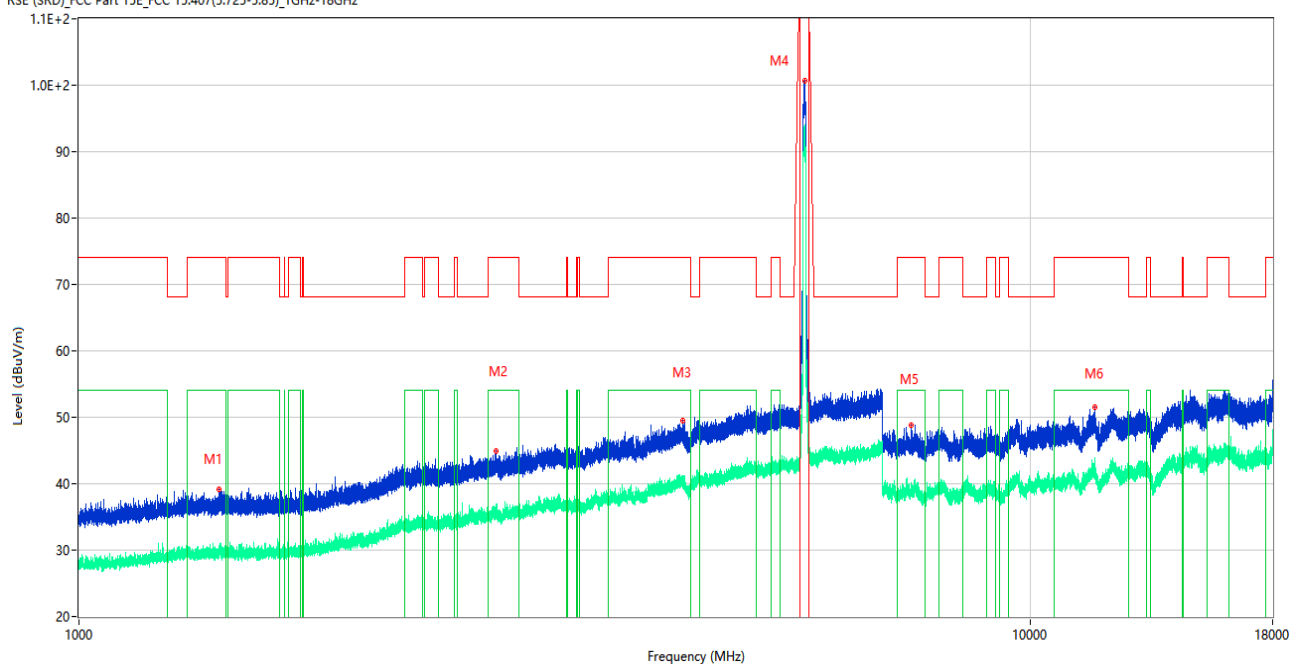
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1352.300	38.75	74.0	35.25	Peak	310.00	100	Vertical	Pass
1**	1352.300	28.90	54.0	25.10	AV	310.00	100	Vertical	Pass
2	2731.100	45.01	74.0	28.99	Peak	359.00	300	Vertical	Pass
2**	2731.100	35.26	54.0	18.74	AV	359.00	300	Vertical	Pass
3	4309.200	48.97	74.0	25.03	Peak	243.00	100	Vertical	Pass
3**	4309.200	40.27	54.0	13.73	AV	243.00	100	Vertical	Pass
4	5783.000	99.15	--	--	Peak	268.00	200	Vertical	N/A
4**	5783.000	91.39	--	--	AV	268.00	200	Vertical	N/A
5	7430.388	48.54	74.0	25.46	Peak	37.00	200	Vertical	Pass
5**	7430.388	40.77	54.0	13.23	AV	37.00	200	Vertical	Pass
6	12220.137	51.55	74.0	22.45	Peak	250.00	100	Vertical	Pass
6**	12220.137	42.08	54.0	11.92	AV	250.00	100	Vertical	Pass

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

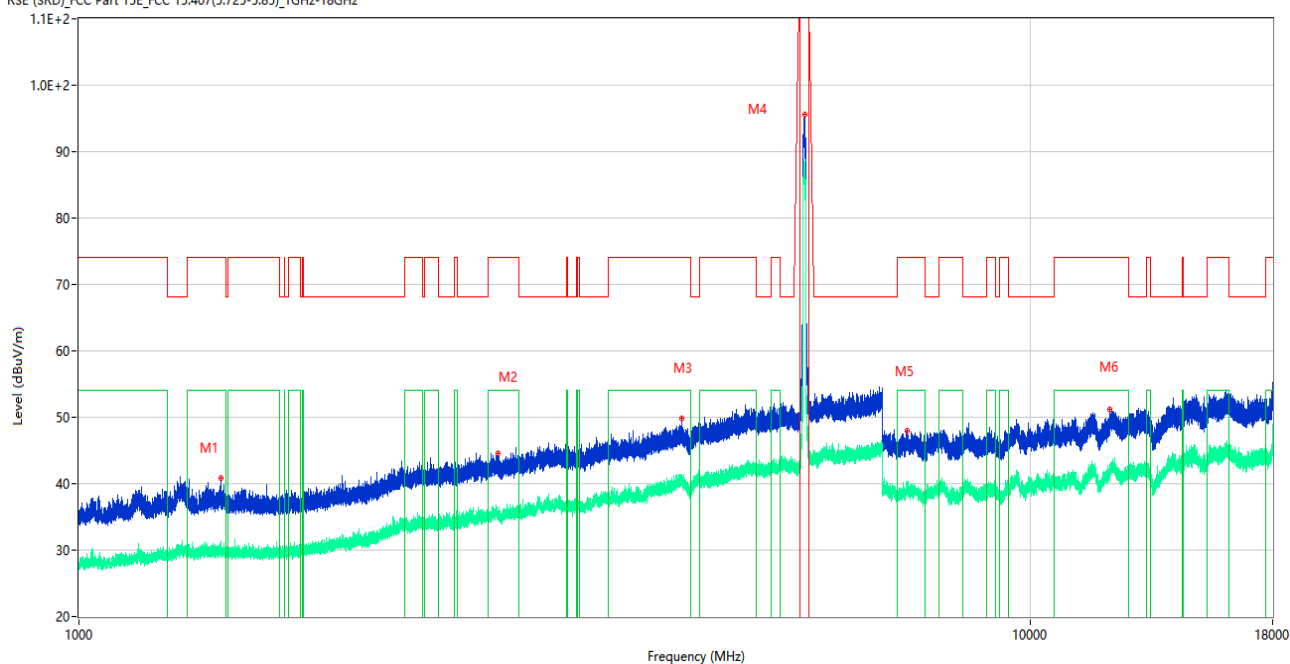
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1405.100	39.17	74.0	34.83	Peak	0.00	300	Horizontal	Pass
1**	1405.100	29.97	54.0	24.03	AV	0.00	300	Horizontal	Pass
2	2746.900	44.84	74.0	29.16	Peak	0.00	100	Horizontal	Pass
2**	2746.900	35.81	54.0	18.19	AV	0.00	100	Horizontal	Pass
3	4318.000	49.43	74.0	24.57	Peak	224.00	100	Horizontal	Pass
3**	4318.000	40.14	54.0	13.86	AV	224.00	100	Horizontal	Pass
4	5796.600	100.66	--	--	Peak	345.00	300	Horizontal	N/A
4**	5796.600	93.44	--	--	AV	345.00	300	Horizontal	N/A
5	7495.363	48.87	74.0	25.13	Peak	243.00	100	Horizontal	Pass
5**	7495.363	38.55	54.0	15.45	AV	243.00	100	Horizontal	Pass
6	11692.575	51.57	74.0	22.43	Peak	102.00	300	Horizontal	Pass
6**	11692.575	42.29	54.0	11.71	AV	102.00	300	Horizontal	Pass

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

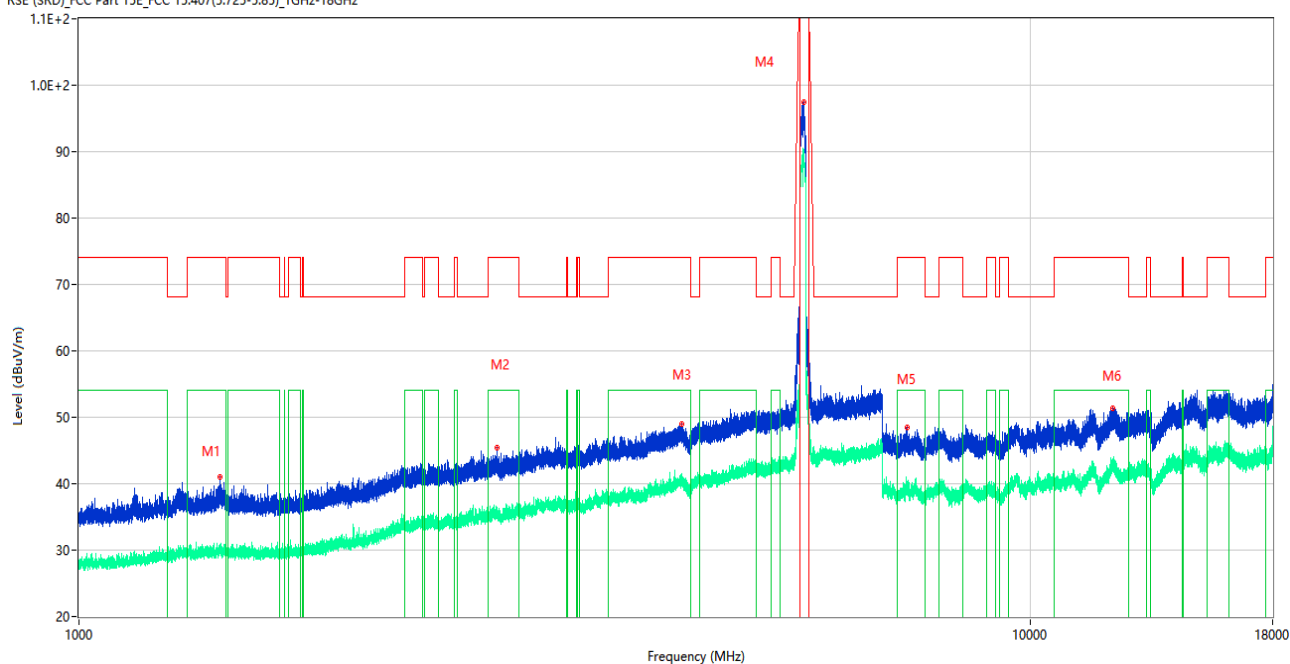
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1410.100	40.85	74.0	33.15	Peak	272.00	400	Vertical	Pass
1**	1410.100	30.12	54.0	23.88	AV	272.00	400	Vertical	Pass
2	2760.600	44.65	74.0	29.35	Peak	344.00	200	Vertical	Pass
2**	2760.600	34.51	54.0	19.49	AV	344.00	200	Vertical	Pass
3	4300.800	49.75	74.0	24.25	Peak	178.00	100	Vertical	Pass
3**	4300.800	40.03	54.0	13.97	AV	178.00	100	Vertical	Pass
4	5792.800	95.51	--	--	Peak	266.00	100	Vertical	N/A
4**	5792.800	88.10	--	--	AV	266.00	100	Vertical	N/A
5	7428.087	48.04	74.0	25.96	Peak	0.00	100	Vertical	Pass
5**	7428.087	39.16	54.0	14.84	AV	0.00	100	Vertical	Pass
6	12128.137	51.12	74.0	22.88	Peak	195.00	200	Vertical	Pass
6**	12128.137	41.03	54.0	12.97	AV	195.00	200	Vertical	Pass

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

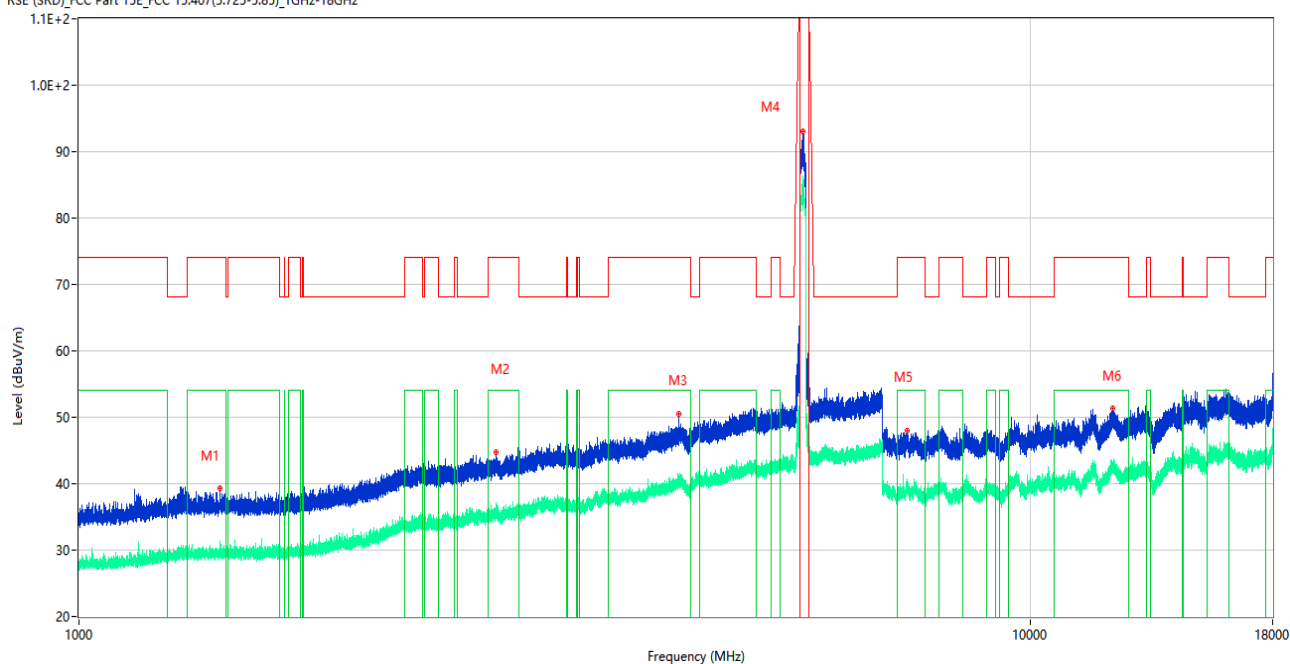
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1408.400	41.07	74.0	32.93	Peak	225.00	300	Horizontal	Pass
1**	1408.400	30.92	54.0	23.08	AV	225.00	300	Horizontal	Pass
2	2752.300	45.47	74.0	28.53	Peak	127.00	300	Horizontal	Pass
2**	2752.300	35.49	54.0	18.51	AV	127.00	300	Horizontal	Pass
3	4300.400	48.96	74.0	25.04	Peak	328.00	200	Horizontal	Pass
3**	4300.400	40.69	54.0	13.31	AV	328.00	200	Horizontal	Pass
4	5779.200	97.54	--	--	Peak	342.00	100	Horizontal	N/A
4**	5779.200	89.83	--	--	AV	342.00	100	Horizontal	N/A
5	7430.675	48.53	74.0	25.47	Peak	315.00	200	Horizontal	Pass
5**	7430.675	39.21	54.0	14.79	AV	315.00	200	Horizontal	Pass
6	12231.063	51.34	74.0	22.66	Peak	124.00	300	Horizontal	Pass
6**	12231.063	42.60	54.0	11.40	AV	124.00	300	Horizontal	Pass

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

RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1407.900	39.36	74.0	34.64	Peak	177.00	100	Vertical	Pass
1**	1407.900	29.38	54.0	24.62	AV	177.00	100	Vertical	Pass
2	2747.300	44.72	74.0	29.28	Peak	58.00	300	Vertical	Pass
2**	2747.300	35.40	54.0	18.60	AV	58.00	300	Vertical	Pass
3	4273.400	50.56	74.0	23.44	Peak	153.00	200	Vertical	Pass
3**	4273.400	40.26	54.0	13.74	AV	153.00	200	Vertical	Pass
4	5776.400	93.07	--	--	Peak	264.00	100	Vertical	N/A
4**	5776.400	86.20	--	--	AV	264.00	100	Vertical	N/A
5	7428.663	47.93	74.0	26.07	Peak	0.00	150	Vertical	Pass
5**	7428.663	39.20	54.0	14.80	AV	0.00	150	Vertical	Pass
6	12231.638	51.34	74.0	22.66	Peak	80.00	400	Vertical	Pass
6**	12231.638	42.54	54.0	11.46	AV	80.00	400	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

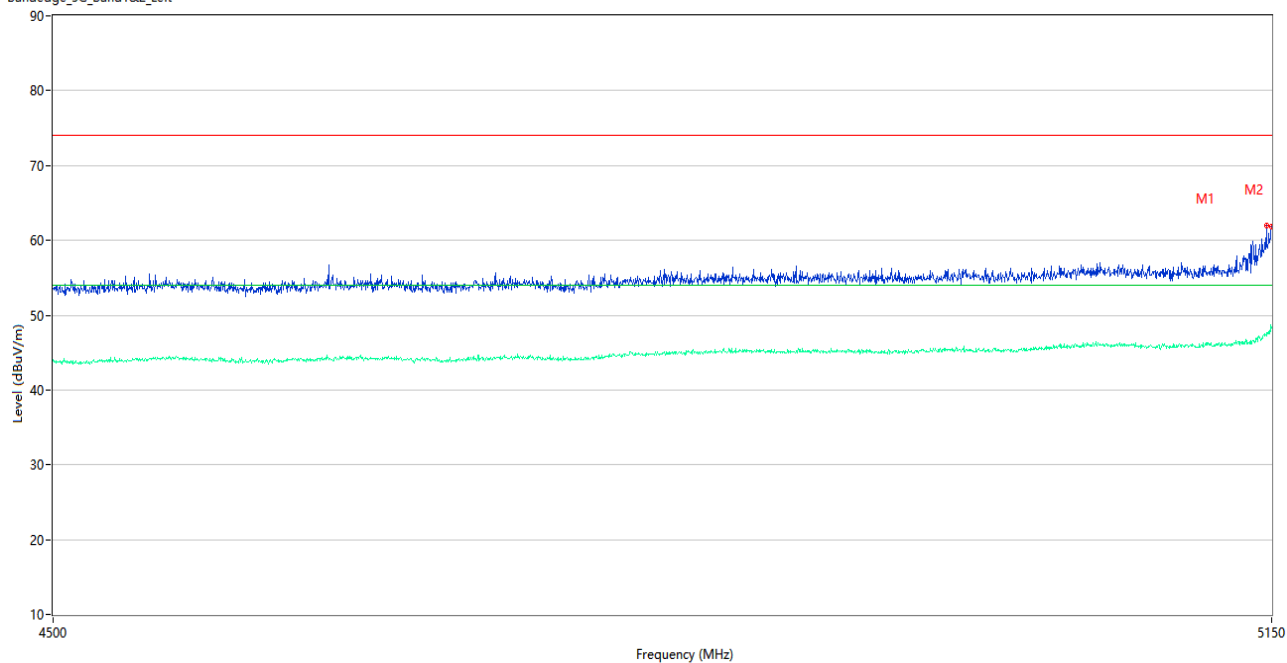
Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass
U-NII-2A	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low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

U-NII-1 11a Low Channel

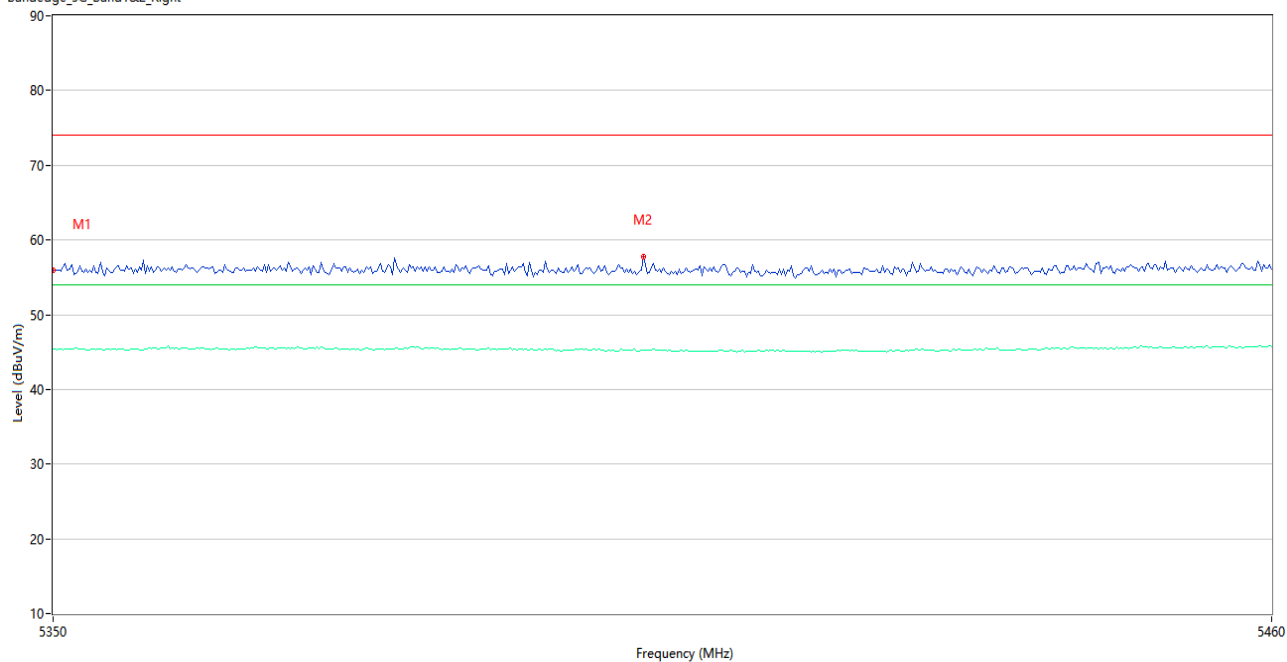
Bandedge_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.075	61.96	74.0	12.04	Peak	357.00	100	Horizontal	Pass
1**	5147.075	47.23	54.0	6.77	AV	357.00	100	Horizontal	Pass
2	5150.000	61.84	74.0	12.16	Peak	0.00	300	Horizontal	Pass
2**	5150.000	48.22	54.0	5.78	AV	0.00	300	Horizontal	Pass

U-NII-1 11a High Channel

Bandedge_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.91	2.52	74.0	18.09	Peak	0.00	300	Vertical
1**	5350.000	45.47	2.52	54.0	8.53	AV	0.00	300	Vertical
2	5402.983	57.72	2.38	74.0	16.28	Peak	147.00	100	Vertical
2**	5402.983	45.18	2.38	54.0	8.82	AV	147.00	100	Vertical

U-NII-1 11n20 Low Channel

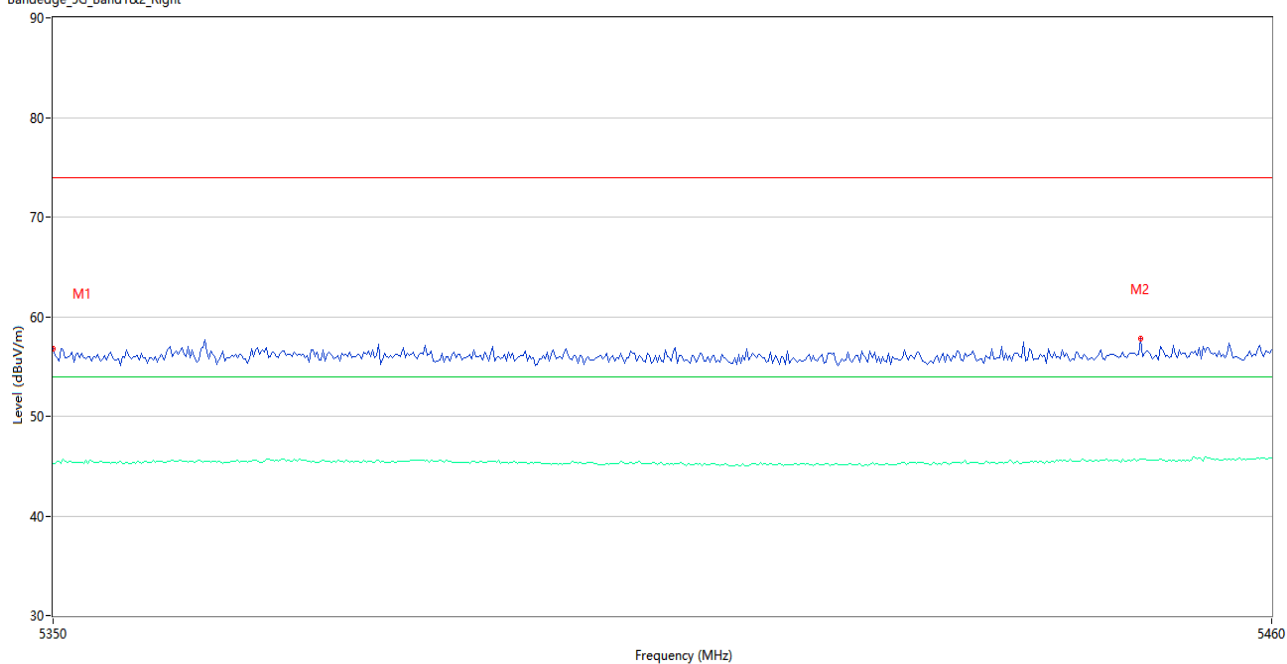
Bandedge_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5145.450	59.87	2.49	74.0	14.13	Peak	12.00	300	Horizontal
1**	5145.450	46.43	2.49	54.0	7.57	AV	12.00	300	Horizontal
2	5150.000	59.47	2.46	74.0	14.53	Peak	11.00	300	Horizontal
2**	5150.000	46.35	2.46	54.0	7.65	AV	11.00	300	Horizontal

U-NII-1 11n20 High Channel

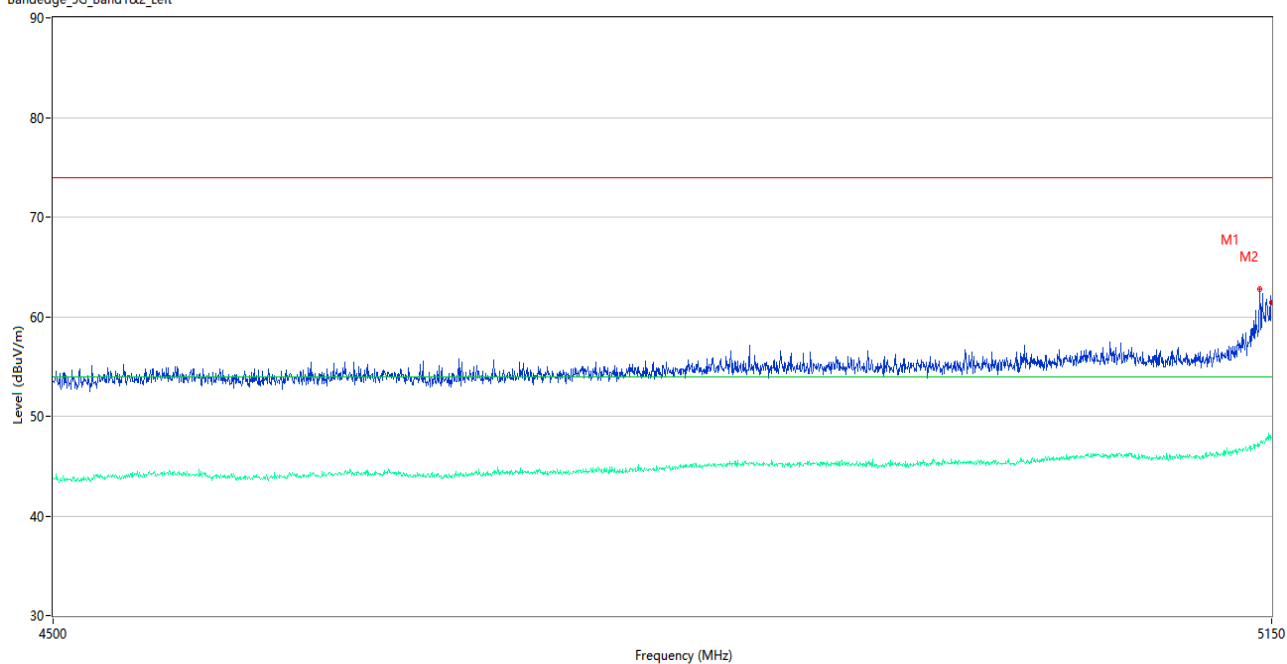
Bandedge_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.72	2.52	74.0	17.28	Peak	217.00	100	Vertical
1**	5350.000	45.29	2.52	54.0	8.71	AV	217.00	100	Vertical
2	5448.083	57.82	2.55	74.0	16.18	Peak	336.00	100	Vertical
2**	5448.083	45.69	2.55	54.0	8.31	AV	336.00	100	Vertical

U-NII-1 11n40 Low Channel

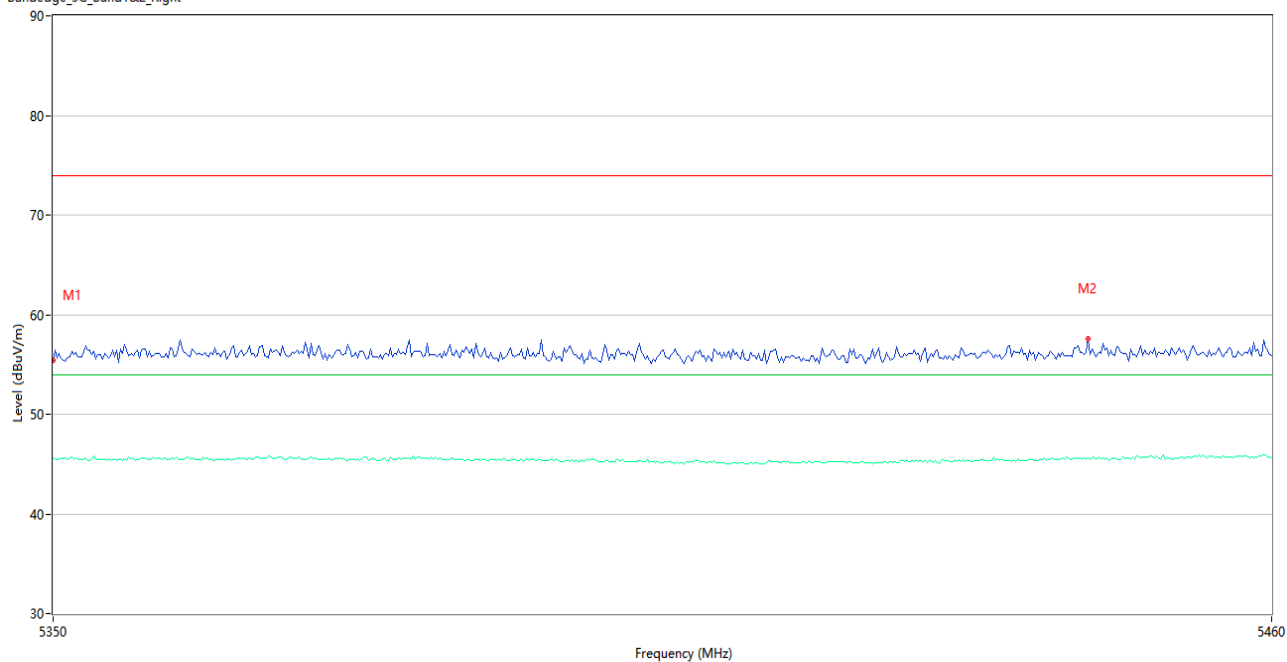
Bandedge_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5143.175	62.72	2.49	74.0	11.28	Peak	42.00	100	Horizontal
1**	5143.175	47.01	2.49	54.0	6.99	AV	42.00	100	Horizontal
2	5150.000	61.39	2.46	74.0	12.61	Peak	360.00	100	Horizontal
2**	5150.000	47.81	2.46	54.0	6.19	AV	360.00	100	Horizontal

U-NII-1 11n40 High Channel

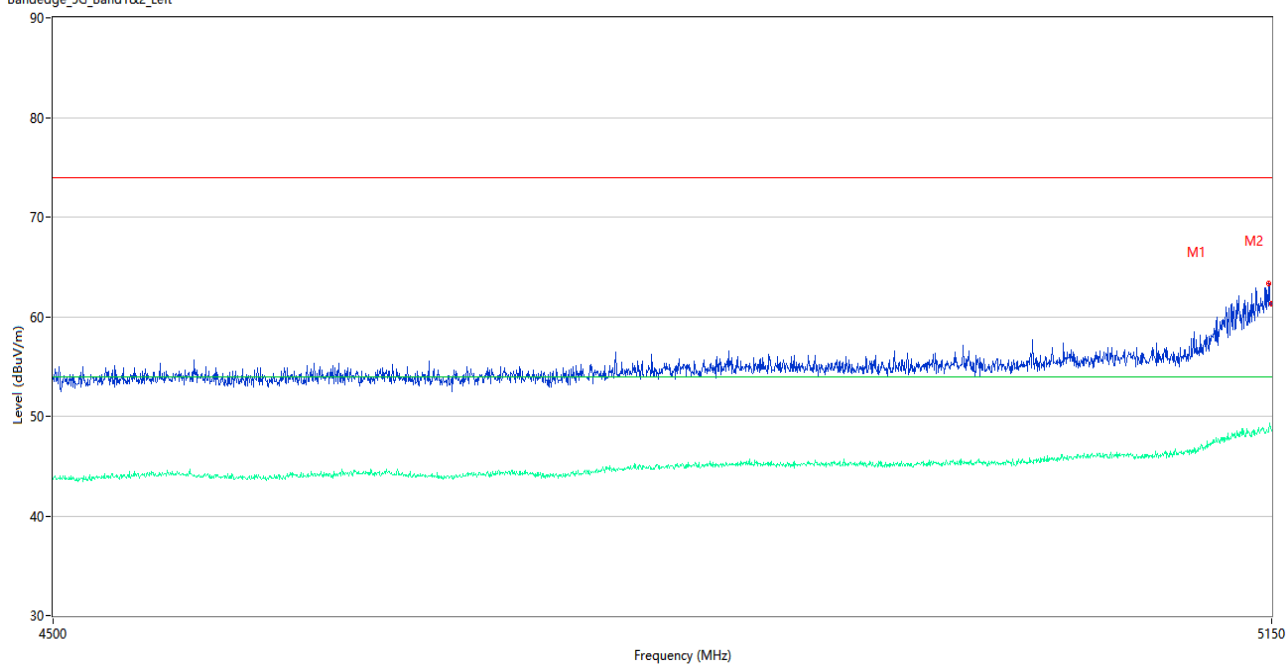
Bandedge_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.43	2.52	74.0	18.57	Peak	109.00	300	Horizontal
1**	5350.000	45.54	2.52	54.0	8.46	AV	109.00	300	Horizontal
2	5443.317	57.62	2.47	74.0	16.38	Peak	55.00	300	Horizontal
2**	5443.317	45.62	2.47	54.0	8.38	AV	55.00	300	Horizontal

U-NII-1 11ac80 Middle Channel

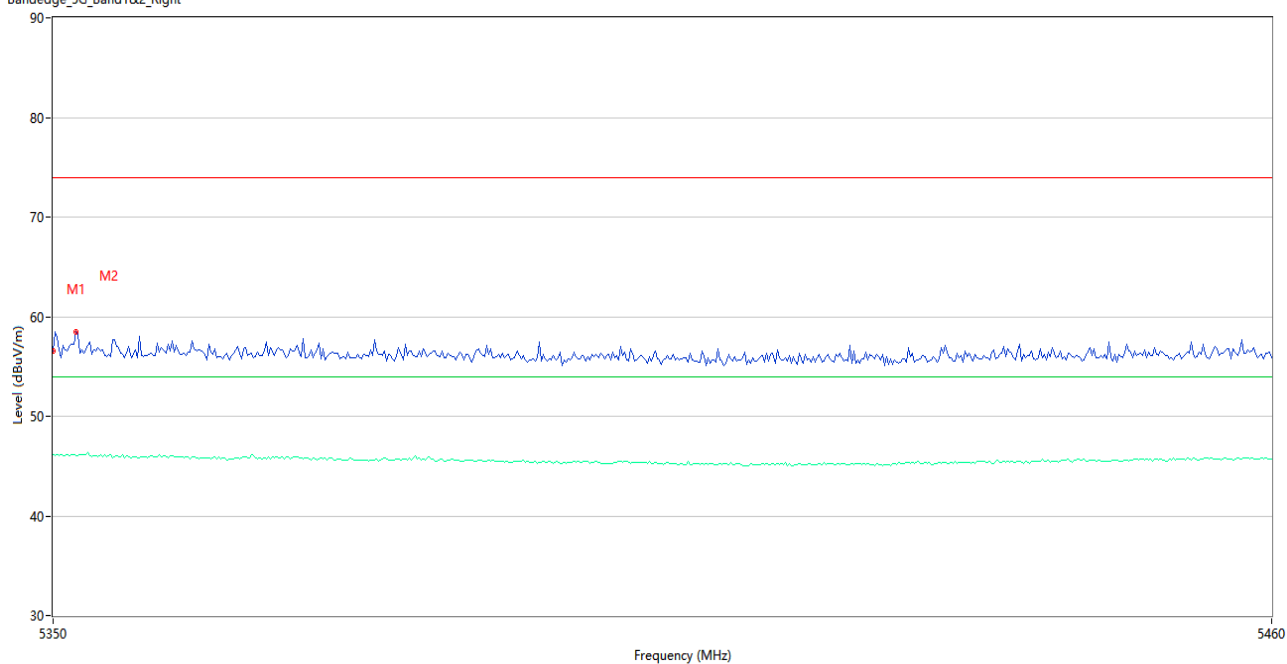
Bandedge_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.375	63.34	2.49	74.0	10.66	Peak	0.00	100	Horizontal
1**	5148.375	48.91	2.49	54.0	5.09	AV	0.00	100	Horizontal
2	5150.000	61.29	2.46	74.0	12.71	Peak	40.00	200	Horizontal
2**	5150.000	48.56	2.46	54.0	5.44	AV	40.00	200	Horizontal

U-NII-1 11ac80 Middle Channel

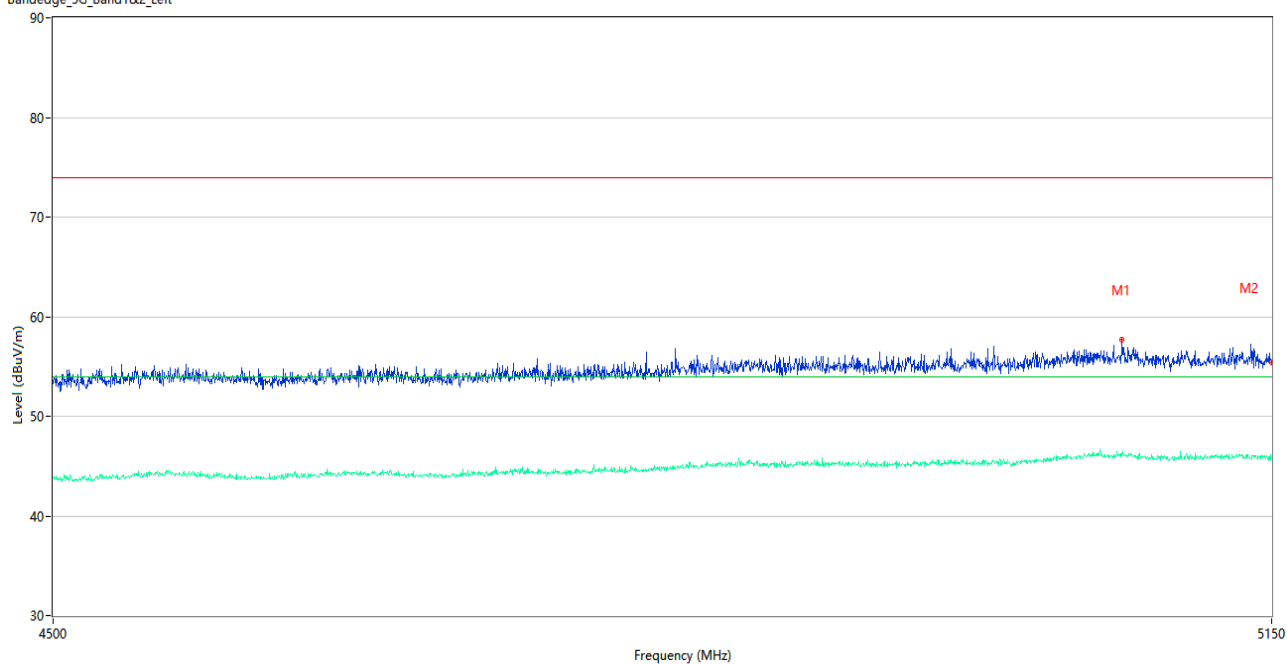
Bandedge_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.58	2.52	74.0	17.42	Peak	103.00	300	Horizontal
1**	5350.000	46.21	2.52	54.0	7.79	AV	103.00	300	Horizontal
2	5352.016	58.51	2.52	74.0	15.49	Peak	360.00	100	Horizontal
2**	5352.016	46.09	2.52	54.0	7.91	AV	360.00	100	Horizontal

U-NII-2A 11a Low Channel

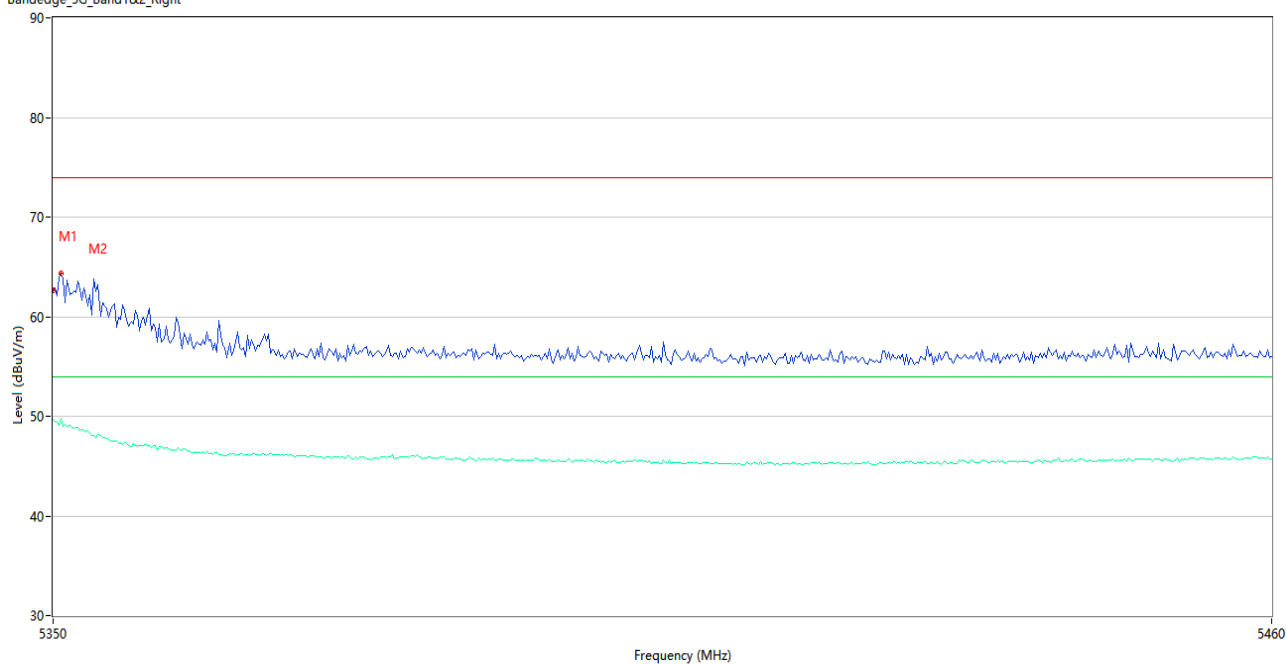
Bandedge_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5065.500	57.69	2.66	74.0	16.31	Peak	171.00	200	Vertical
1**	5065.500	46.02	2.66	54.0	7.98	AV	171.00	200	Vertical
2	5150.000	55.46	2.46	74.0	18.54	Peak	88.00	200	Vertical
2**	5150.000	45.82	2.46	54.0	8.18	AV	88.00	200	Vertical

U-NII-2A 11a High Channel

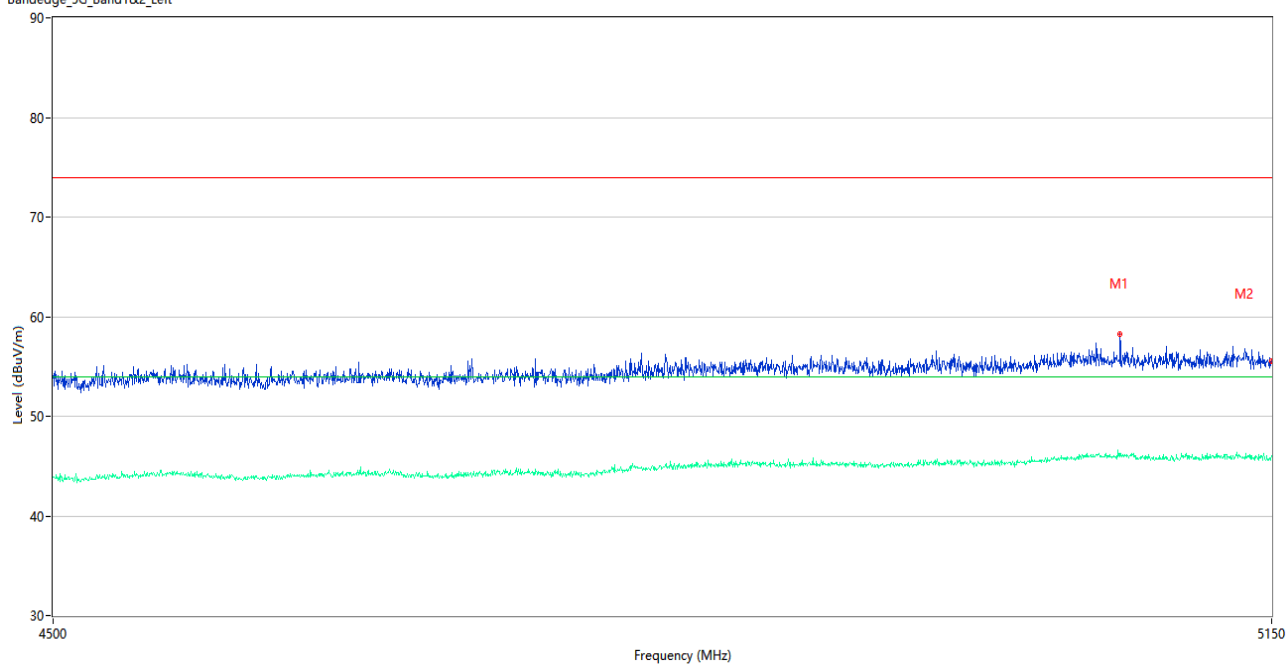
Bandedge_5G_Band1&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	62.69	2.52	74.0	11.31	Peak	348.00	200	Horizontal
1**	5350.000	49.63	2.52	54.0	4.37	AV	348.00	200	Horizontal
2	5350.733	64.34	2.53	74.0	9.66	Peak	356.00	300	Horizontal
2**	5350.733	49.74	2.53	54.0	4.26	AV	356.00	300	Horizontal

U-NII-2A 11n20 Low Channel

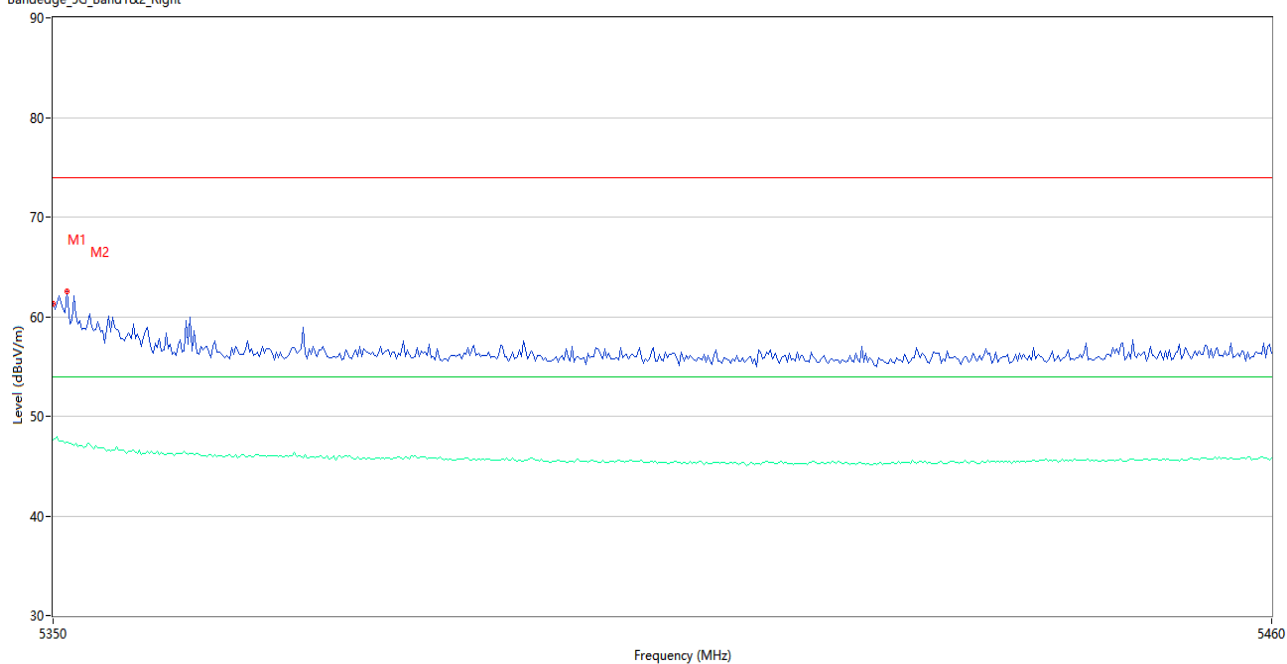
Bandedge_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5064.200	58.29	2.69	74.0	15.71	Peak	112.00	300	Horizontal
1**	5064.200	45.98	2.69	54.0	8.02	AV	112.00	300	Horizontal
2	5150.000	55.59	2.46	74.0	18.41	Peak	222.00	200	Horizontal
2**	5150.000	46.03	2.46	54.0	7.97	AV	222.00	200	Horizontal

U-NII-2A 11n20 High Channel

Bandedge_5G_Band18&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	61.35	2.52	74.0	12.65	Peak	357.00	400	Horizontal
1**	5350.000	47.68	2.52	54.0	6.32	AV	357.00	400	Horizontal
2	5351.283	62.59	2.52	74.0	11.41	Peak	0.00	100	Horizontal
2**	5351.283	47.40	2.52	54.0	6.60	AV	0.00	100	Horizontal

U-NII-2A 11n40 Low Channel

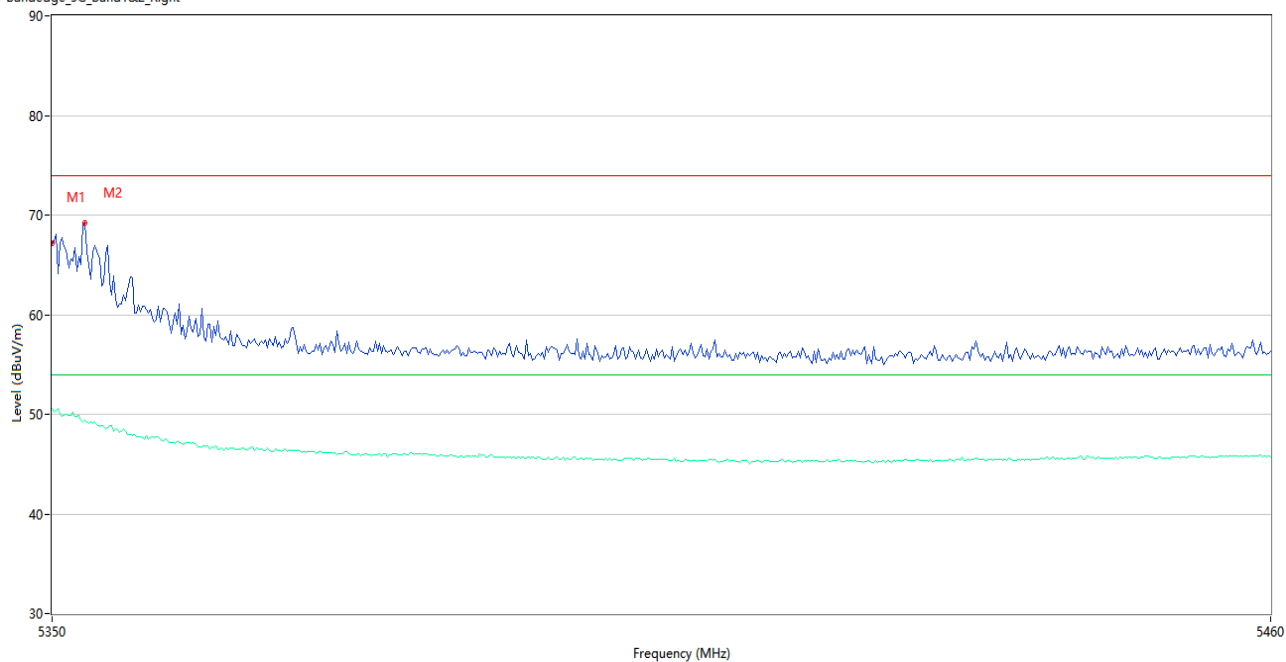
Bandedge_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5119.450	57.35	2.58	74.0	16.65	Peak	251.00	200	Vertical
1**	5119.450	45.84	2.58	54.0	8.16	AV	251.00	200	Vertical
2	5150.000	56.25	2.46	74.0	17.75	Peak	352.00	100	Vertical
2**	5150.000	45.85	2.46	54.0	8.15	AV	352.00	100	Vertical

U-NII-2A 11n40 High Channel

Bandedge_5G_Band18&2_Right



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	67.12	2.52	74.0	6.88	Peak	0.00	200	Horizontal
1**	5350.000	50.60	2.52	54.0	3.40	AV	0.00	200	Horizontal
2	5352.933	69.18	2.52	74.0	4.82	Peak	0.00	200	Horizontal
2**	5352.933	49.41	2.52	54.0	4.59	AV	0.00	200	Horizontal

U-NII-2A 11ac80 Middle Channel

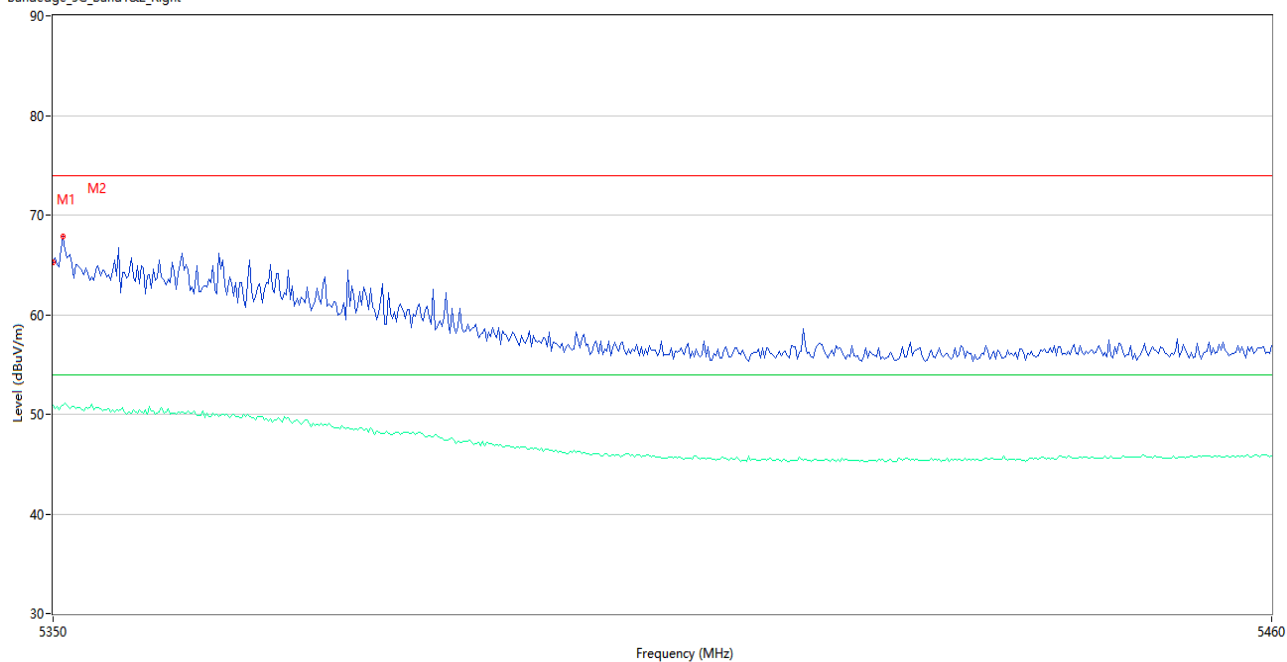
Bandedge_5G_Band1&2_Left



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5096.050	57.23	2.64	74.0	16.77	Peak	28.00	100	Horizontal
1**	5096.050	45.88	2.64	54.0	8.12	AV	28.00	100	Horizontal
2	5150.000	55.02	2.46	74.0	18.98	Peak	205.00	200	Horizontal
2**	5150.000	46.04	2.46	54.0	7.96	AV	205.00	200	Horizontal

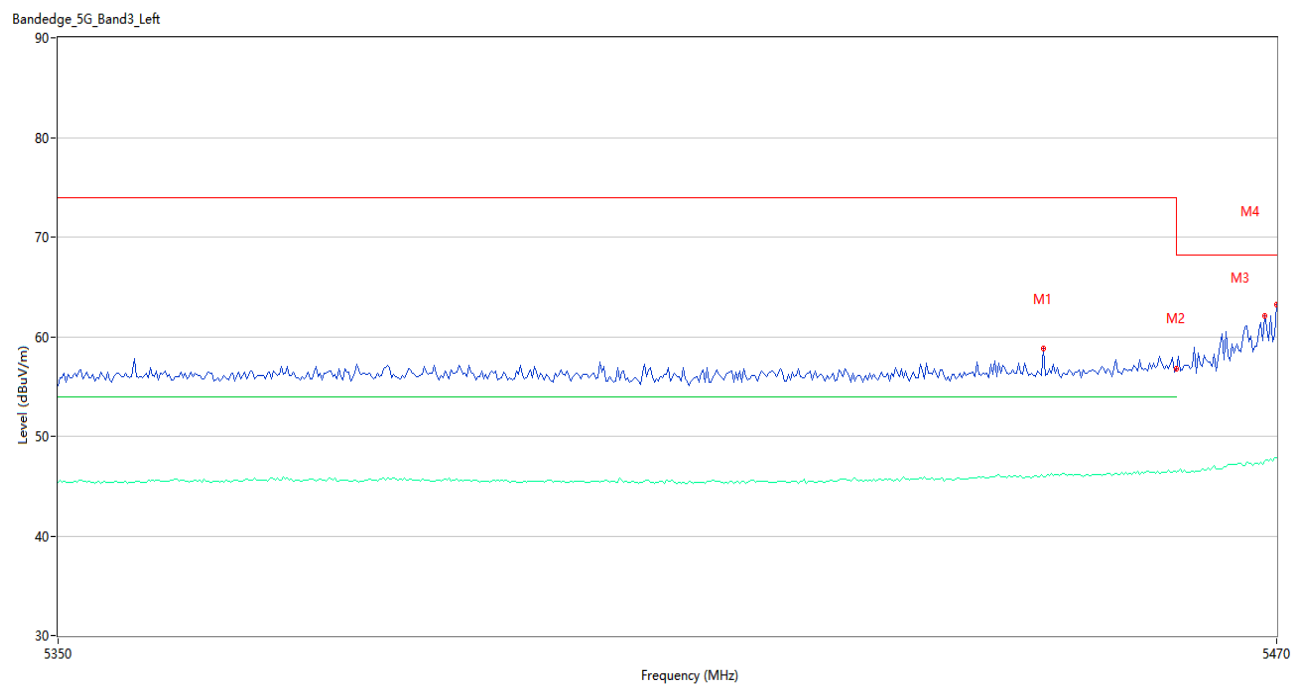
U-NII-2A 11ac80 Middle Channel

Bandedge_5G_Band1&2_Right



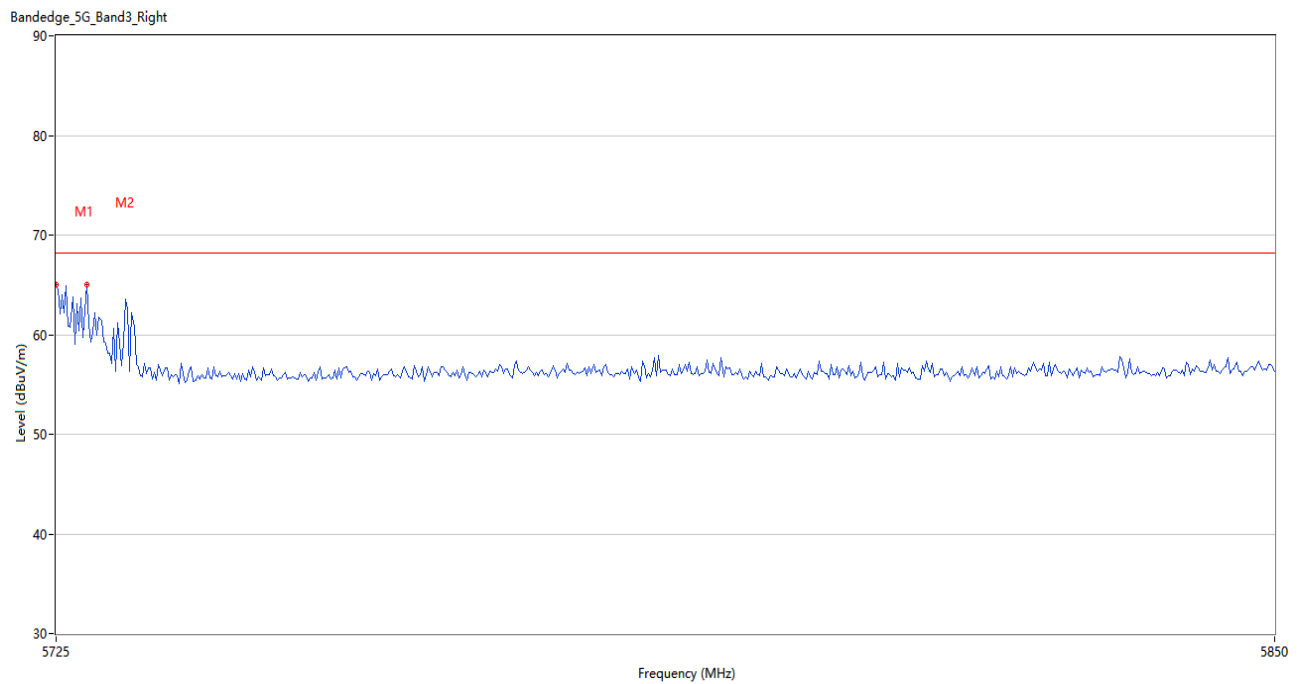
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	65.23	2.52	74.0	8.77	Peak	348.00	400	Horizontal
1**	5350.000	50.87	2.52	54.0	3.13	AV	348.00	400	Horizontal
2	5350.917	67.81	2.53	74.0	6.19	Peak	360.00	300	Horizontal
2**	5350.917	50.86	2.53	54.0	3.14	AV	360.00	300	Horizontal

U-NII-2C 11a Low Channel



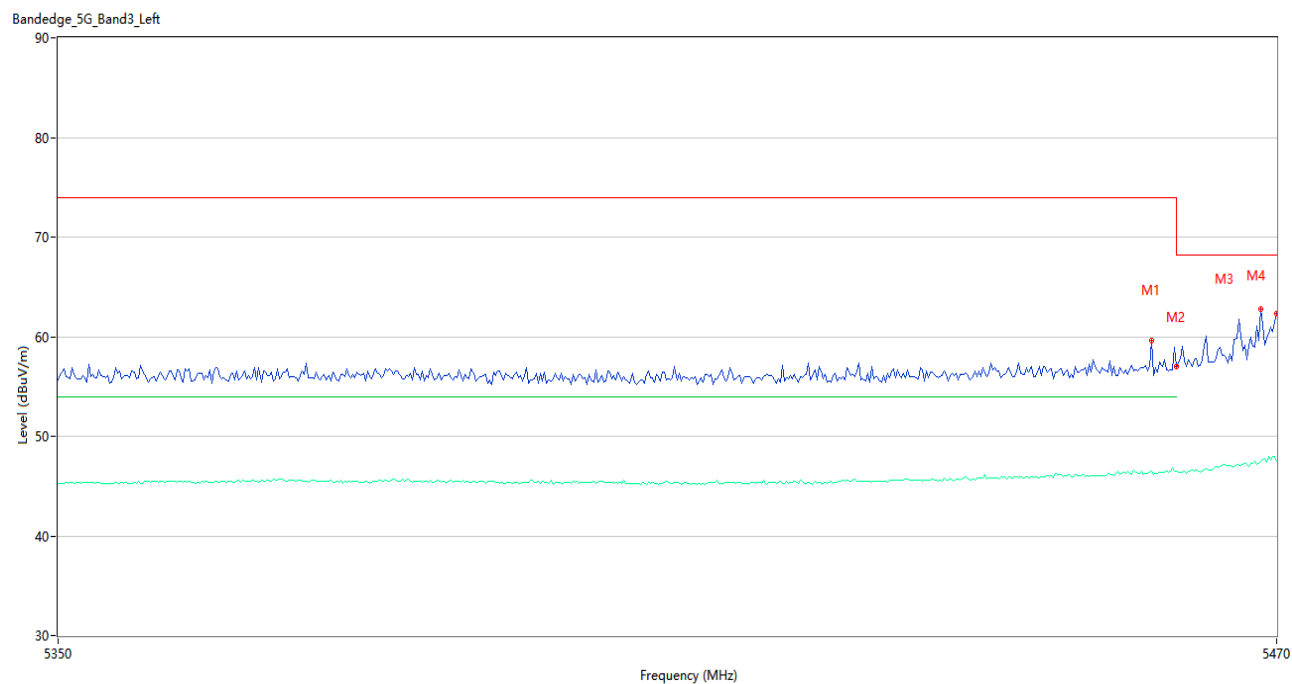
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5446.800	58.78	2.47	74.0	15.22	Peak	11.00	300	Horizontal
1**	5446.800	45.94	2.47	54.0	8.06	AV	11.00	300	Horizontal
2	5460.000	56.83	2.67	74.0	17.17	Peak	343.00	400	Horizontal
2**	5460.000	46.35	2.67	54.0	7.65	AV	343.00	400	Horizontal
3	5468.800	62.14	2.82	68.2	6.06	Peak	336.00	100	Horizontal
3**	5468.800	47.47	2.82	--	--	AV	336.00	100	Horizontal
4	5470.000	63.19	2.87	68.2	5.01	Peak	326.00	300	Horizontal
4**	5470.000	47.89	2.87	--	--	AV	326.00	300	Horizontal

U-NII-2C 11a High Channel



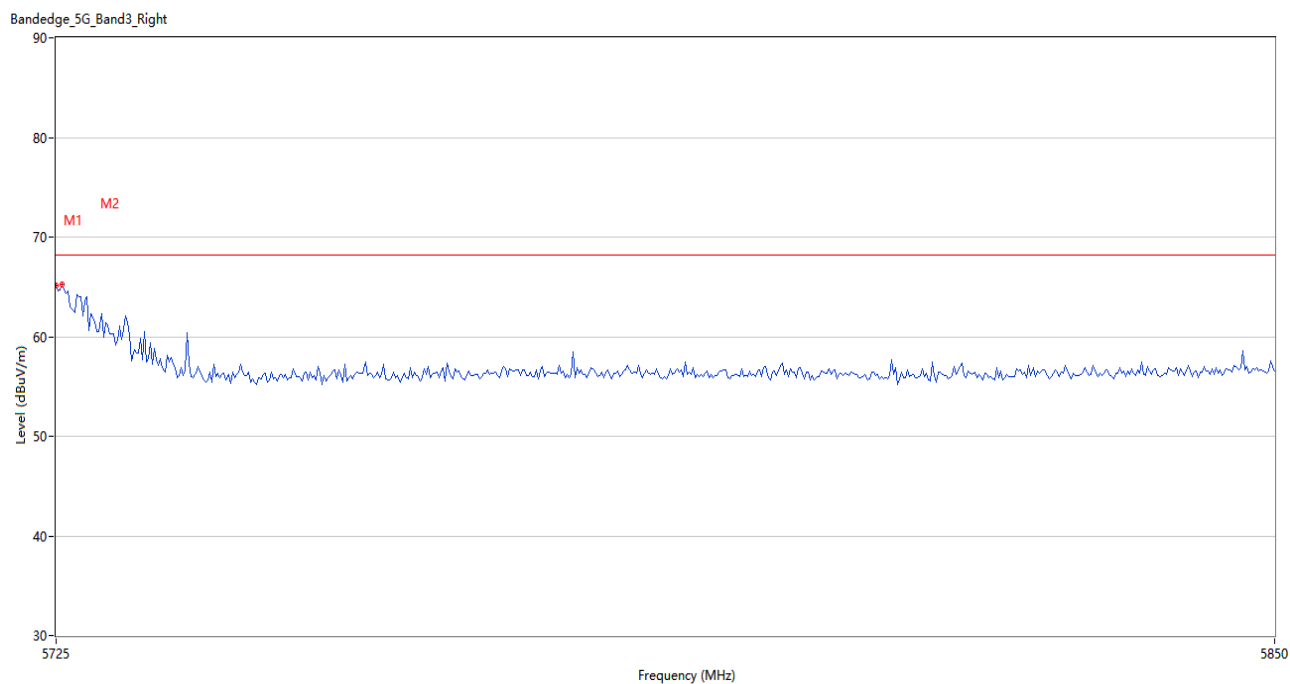
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	65.03	1.87	68.2	3.17	Peak	0.00	300	Horizontal
2	5728.125	65.00	1.86	68.2	3.20	Peak	352.00	200	Horizontal

U-NII-2C 11n20 Low Channel



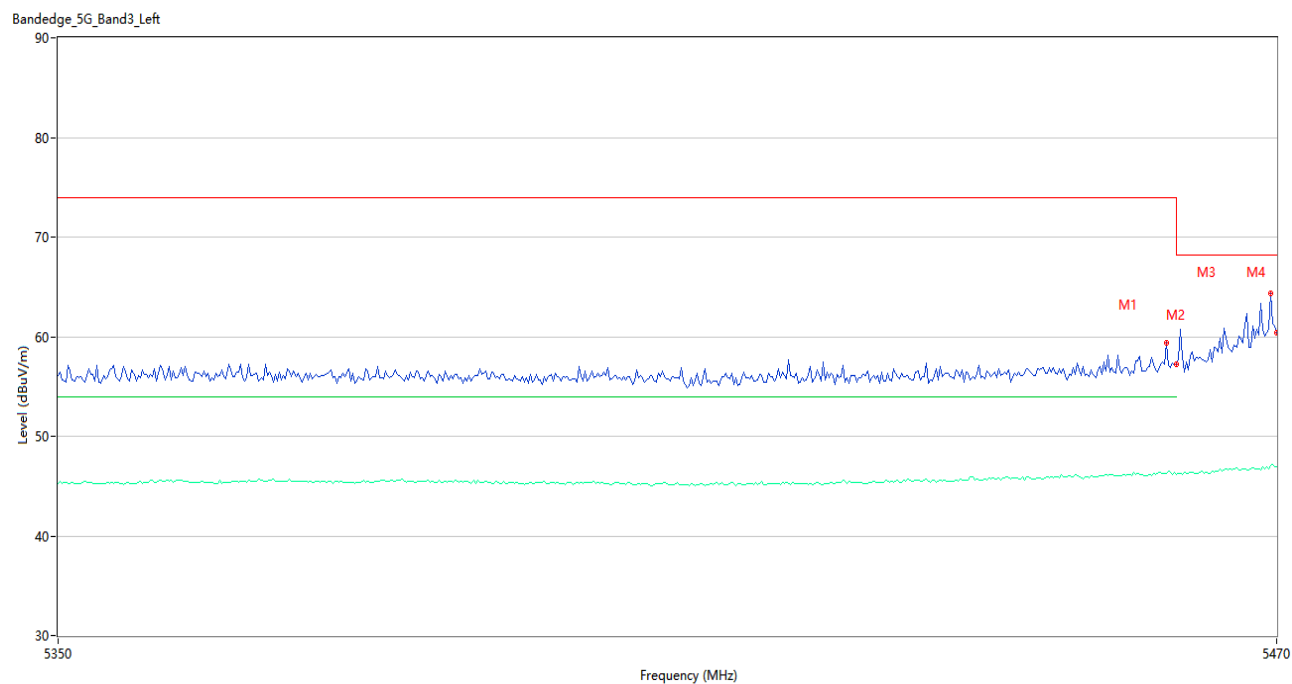
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5457.600	59.66	2.62	74.0	14.34	Peak	323.00	100	Horizontal
1**	5457.600	46.50	2.62	54.0	7.50	AV	323.00	100	Horizontal
2	5460.000	57.03	2.67	74.0	16.97	Peak	323.00	400	Horizontal
2**	5460.000	46.53	2.67	54.0	7.47	AV	323.00	400	Horizontal
3	5468.400	62.77	2.80	68.2	5.43	Peak	350.00	100	Horizontal
3**	5468.400	47.47	2.80	--	--	AV	350.00	100	Horizontal
4	5470.000	62.29	2.87	68.2	5.91	Peak	328.00	200	Horizontal
4**	5470.000	47.54	2.87	--	--	AV	328.00	200	Horizontal

U-NII-2C 11n20 High Channel



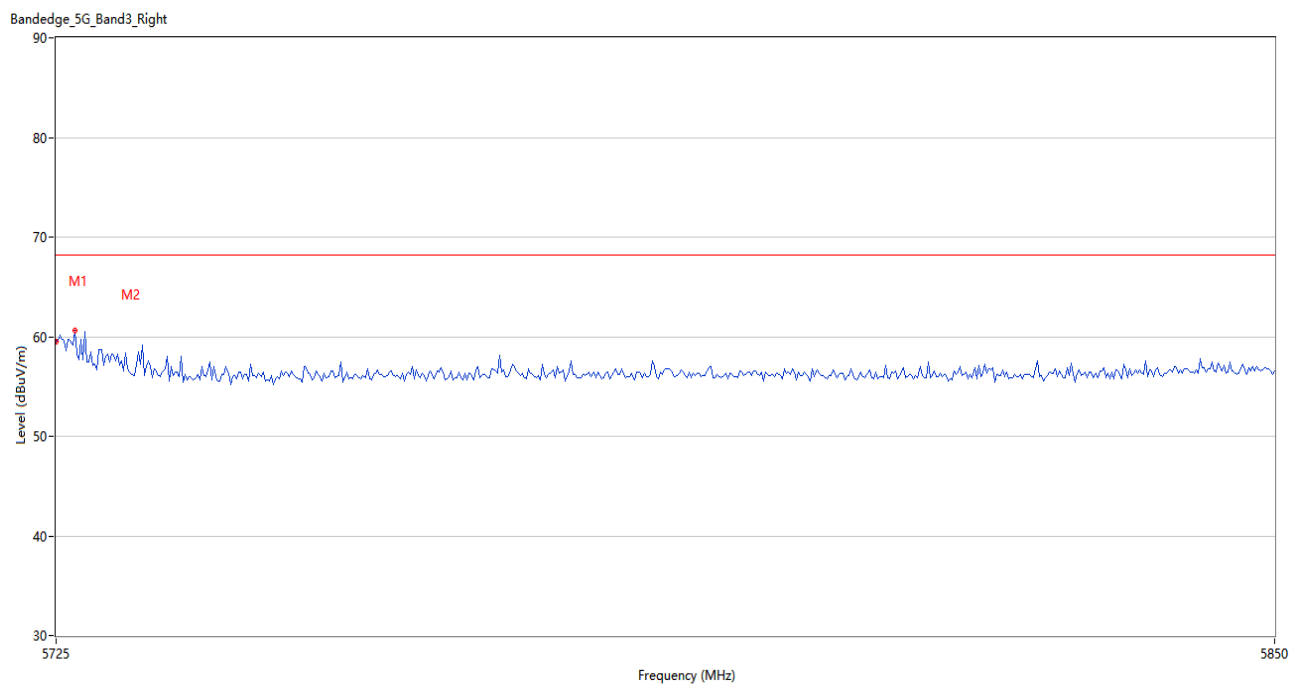
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	65.19	1.87	68.2	3.01	Peak	356.00	400	Horizontal
2	5725.625	65.20	1.91	68.2	3.00	Peak	346.00	100	Horizontal

U-NII-2C 11n40 Low Channel



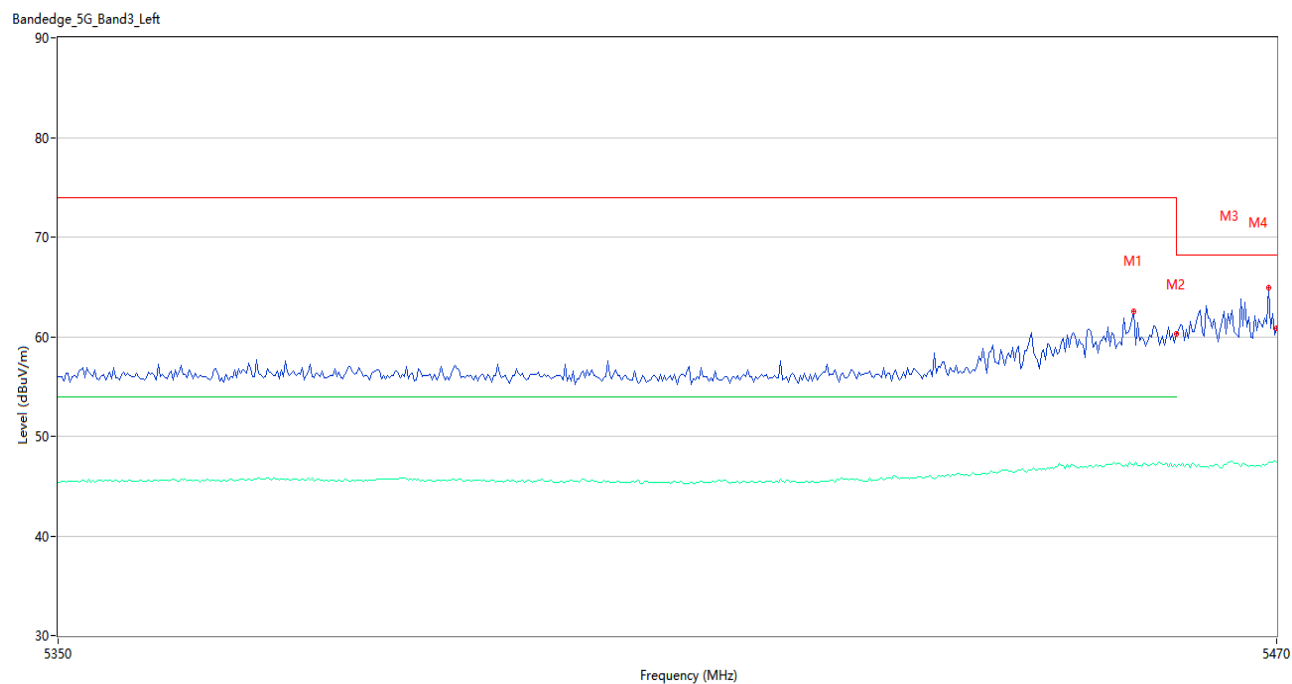
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5459.000	59.39	2.68	74.0	14.61	Peak	0.00	100	Vertical
1**	5459.000	46.29	2.68	54.0	7.71	AV	0.00	100	Vertical
2	5460.000	57.20	2.67	74.0	16.80	Peak	0.00	400	Vertical
2**	5460.000	46.20	2.67	54.0	7.80	AV	0.00	400	Vertical
3	5469.400	64.34	2.85	68.2	3.86	Peak	355.00	100	Vertical
3**	5469.400	47.08	2.85	--	--	AV	355.00	100	Vertical
4	5470.000	60.37	2.87	68.2	7.83	Peak	358.00	100	Vertical
4**	5470.000	46.90	2.87	--	--	AV	358.00	100	Vertical

U-NII-2C 11n40 High Channel



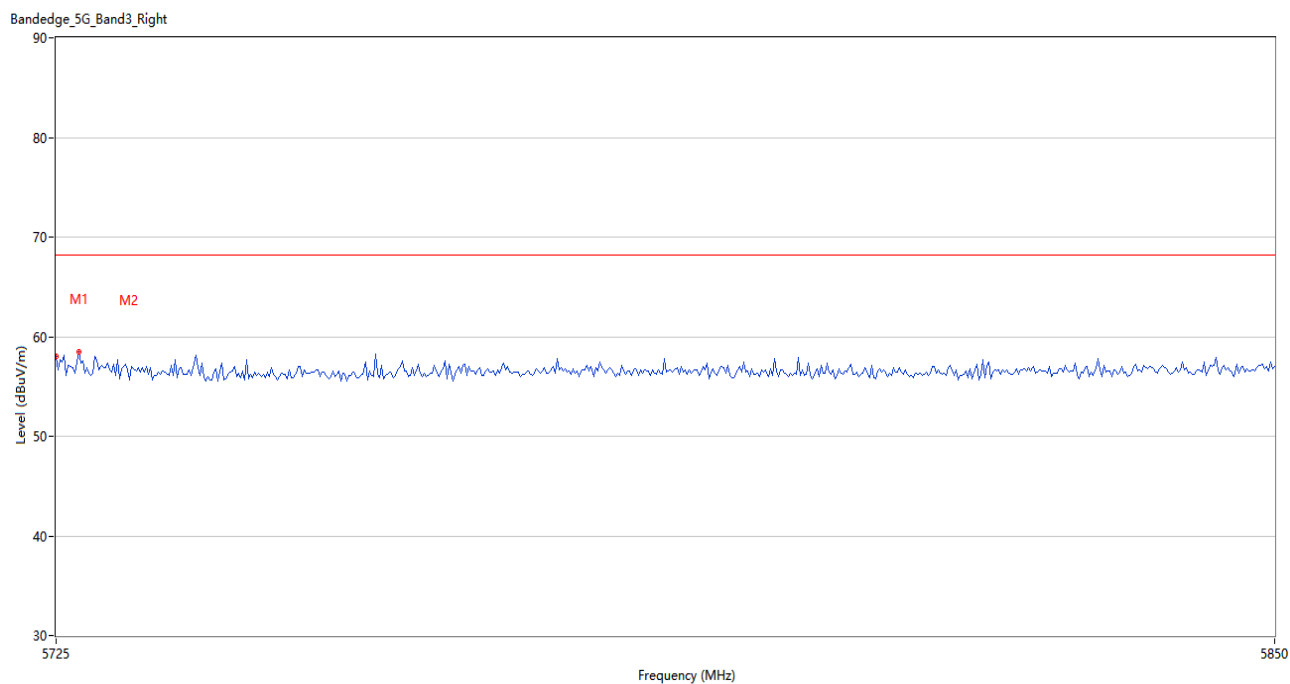
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	59.45	1.87	68.2	8.75	Peak	9.00	100	Horizontal
2	5726.875	60.60	1.98	68.2	7.60	Peak	360.00	100	Horizontal

U-NII-2C 11ac80 Middle Channel



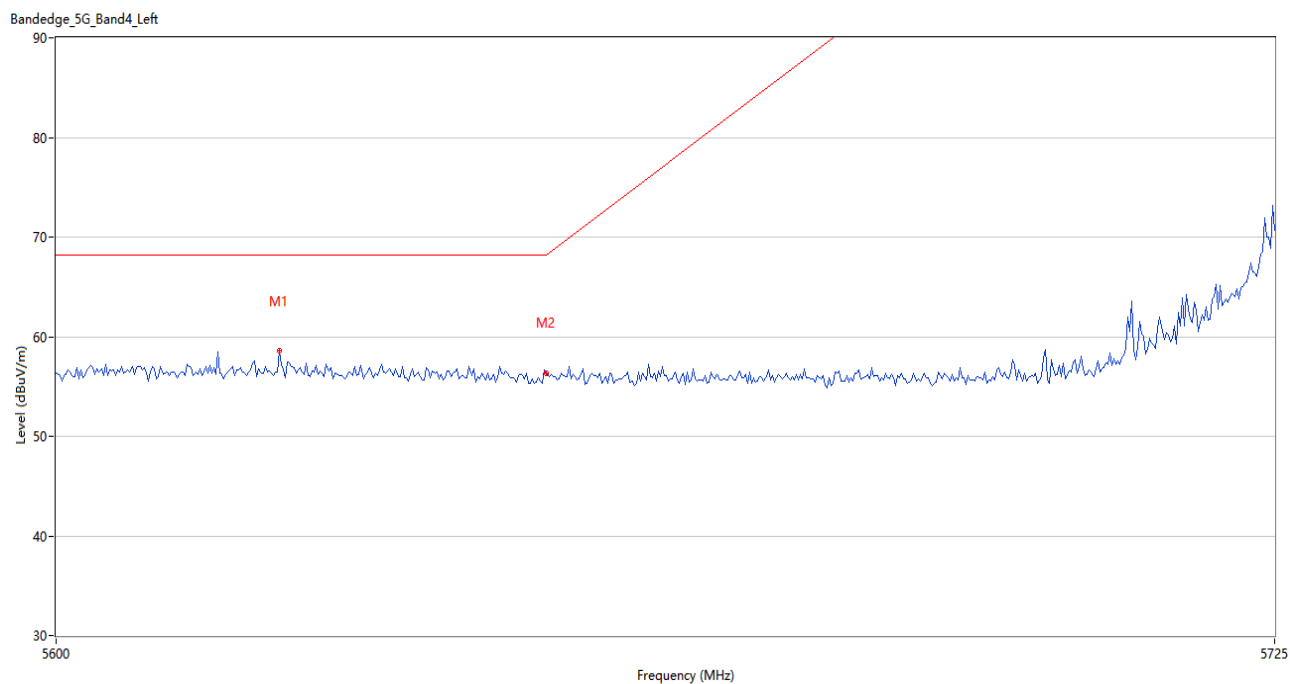
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5455.800	62.57	2.61	74.0	11.43	Peak	360.00	100	Vertical
1**	5455.800	47.07	2.61	54.0	6.93	AV	360.00	100	Vertical
2	5460.000	60.29	2.67	74.0	13.71	Peak	2.00	100	Vertical
2**	5460.000	46.91	2.67	54.0	7.09	AV	2.00	100	Vertical
3	5469.200	64.95	2.84	68.2	3.25	Peak	354.00	300	Vertical
3**	5469.200	47.35	2.84	--	--	AV	354.00	300	Vertical
4	5470.000	60.90	2.87	68.2	7.30	Peak	360.00	400	Vertical
4**	5470.000	47.38	2.87	--	--	AV	360.00	400	Vertical

U-NII-2C 11ac80 Middle Channel



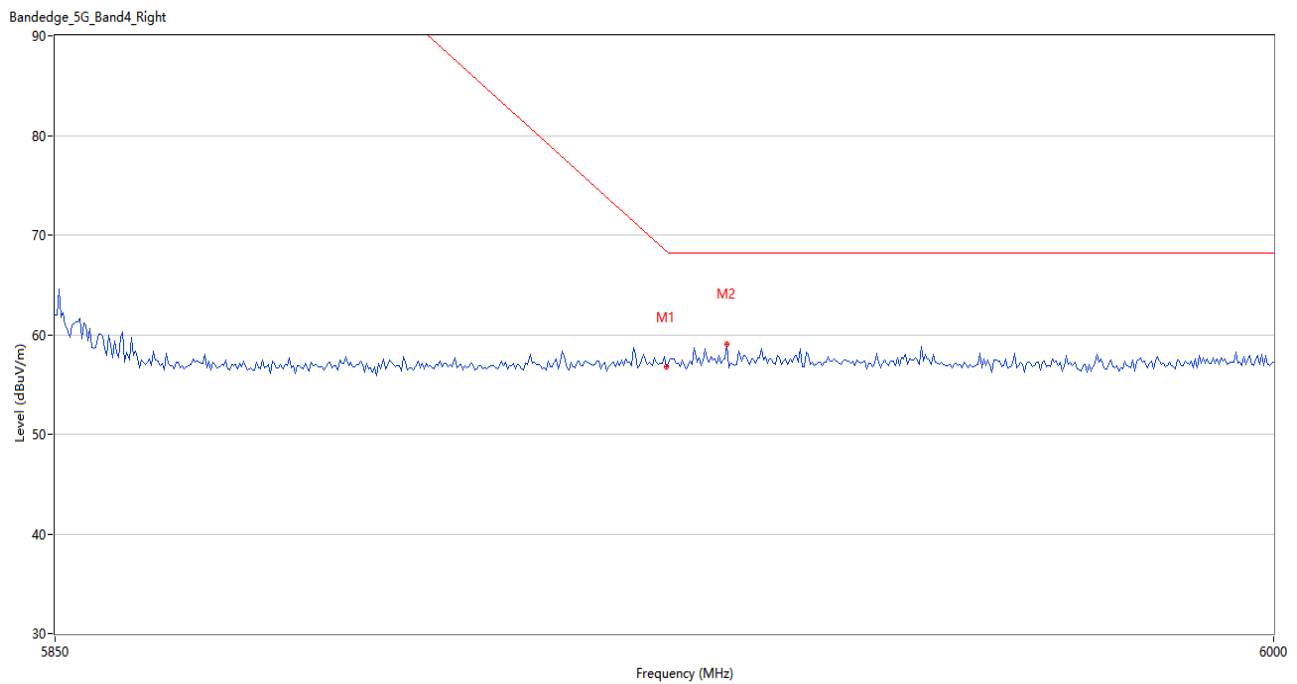
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	57.99	1.87	68.2	10.21	Peak	346.00	200	Horizontal
2	5727.291	58.48	1.95	68.2	9.72	Peak	354.00	100	Horizontal

U-NII-3 11a Low Channel



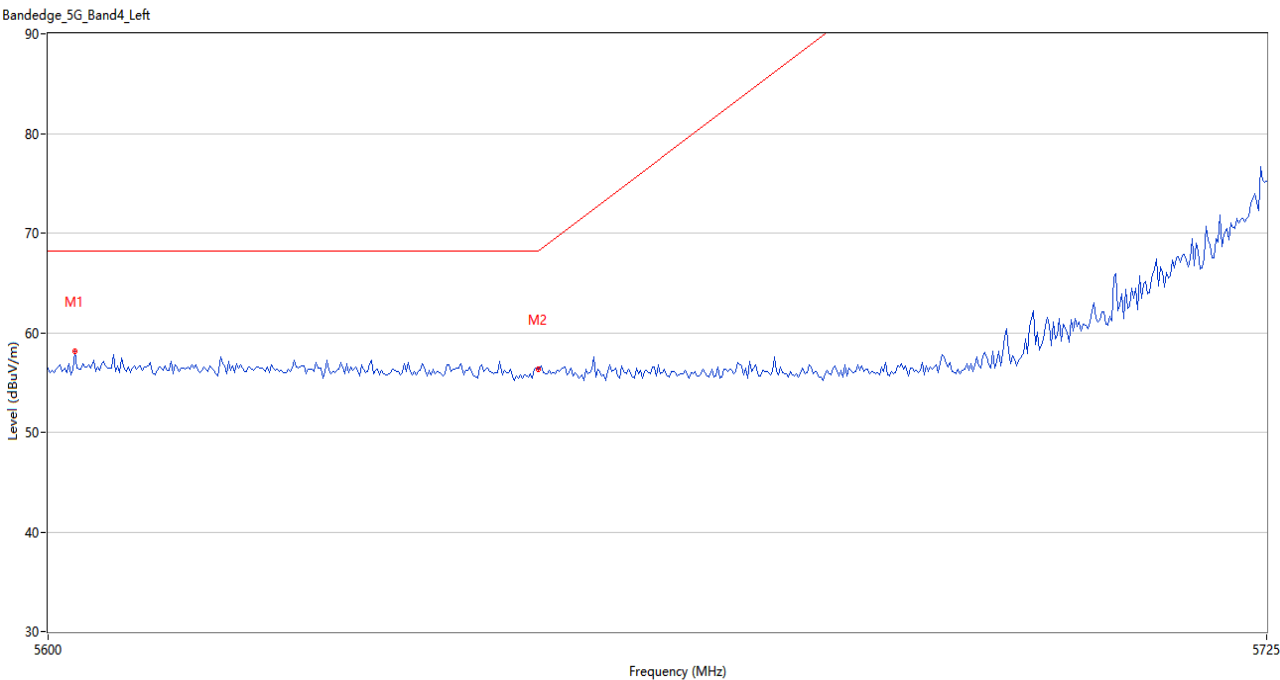
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5622.709	58.59	2.51	68.2	9.61	Peak	318.00	400	Vertical
2	5650.000	56.38	2.28	68.2	11.82	Peak	360.00	300	Vertical

U-NII-3 11a High Channel



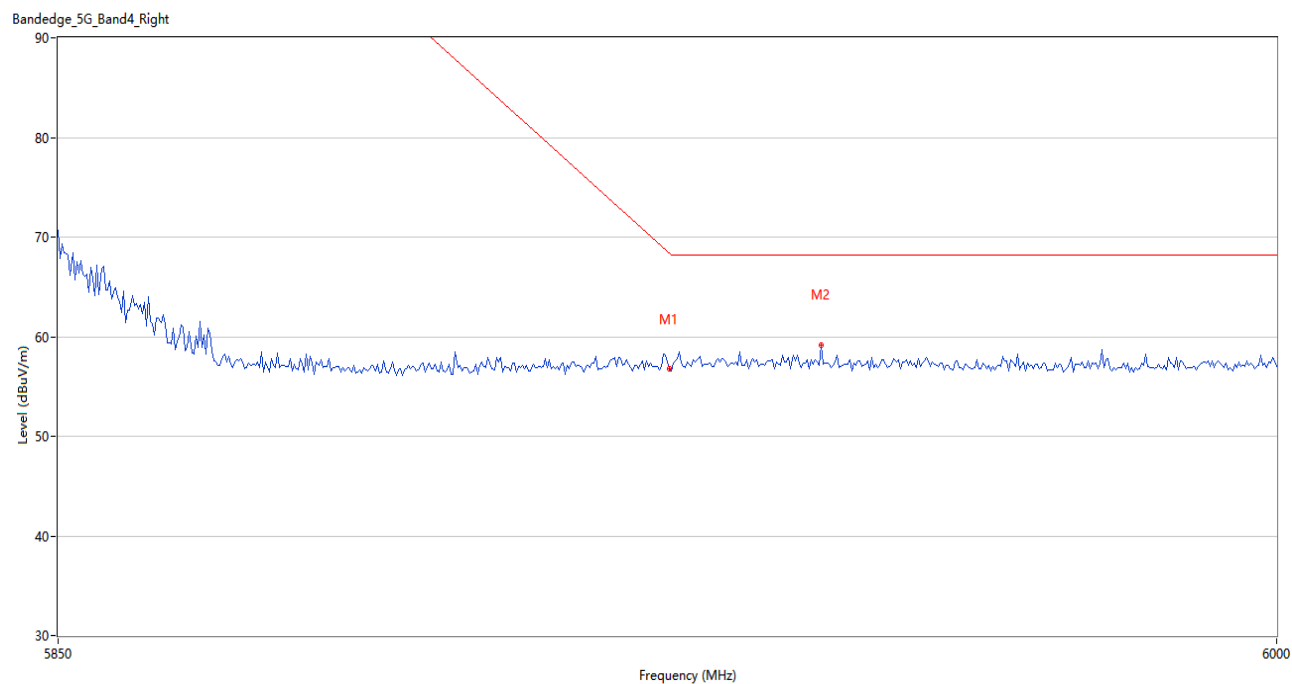
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	56.80	3.75	68.4	11.60	Peak	57.00	200	Vertical
2	5932.250	59.08	3.78	68.2	9.12	Peak	16.00	300	Vertical

U-NII-3 11n20 Low Channel



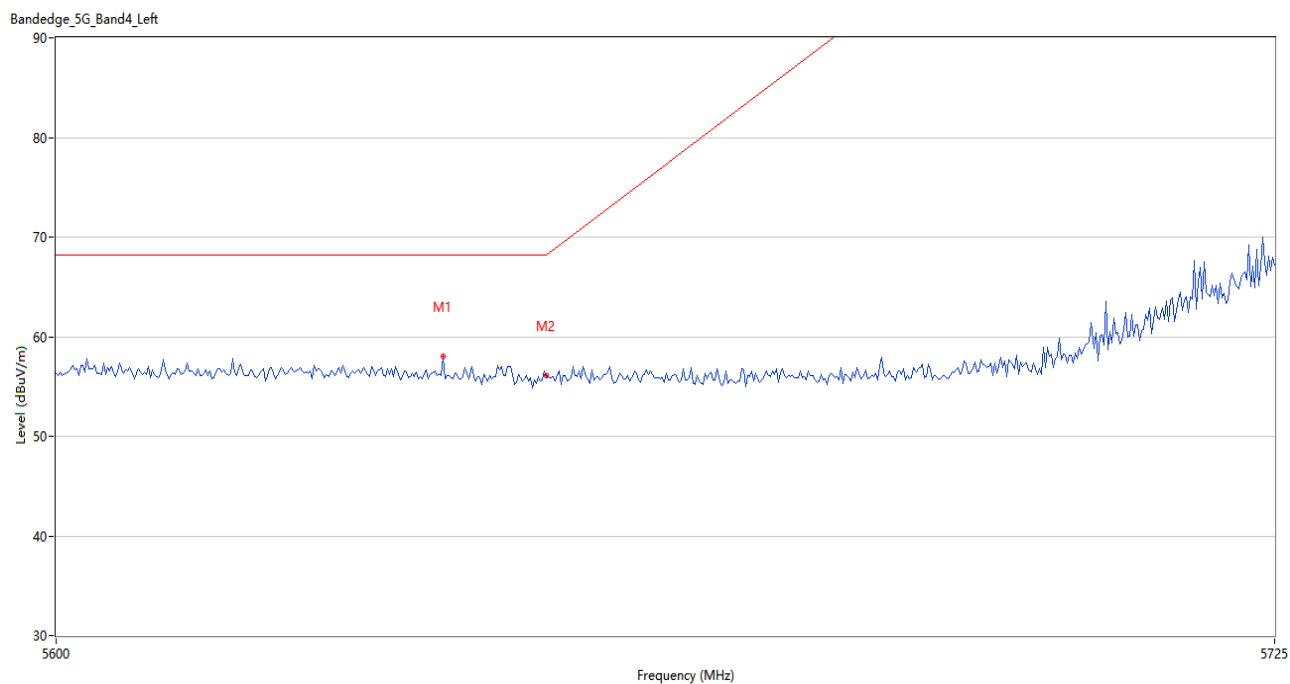
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5602.708	58.11	2.63	68.2	10.09	Peak	354.00	200	Horizontal
2	5650.000	56.30	2.28	68.2	11.90	Peak	58.00	200	Horizontal

U-NII-3 11n20 High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	56.73	3.75	68.4	11.67	Peak	259.00	400	Horizontal
2	5943.500	59.20	3.83	68.2	9.00	Peak	94.00	400	Horizontal

U-NII-3 11n40 Low Channel



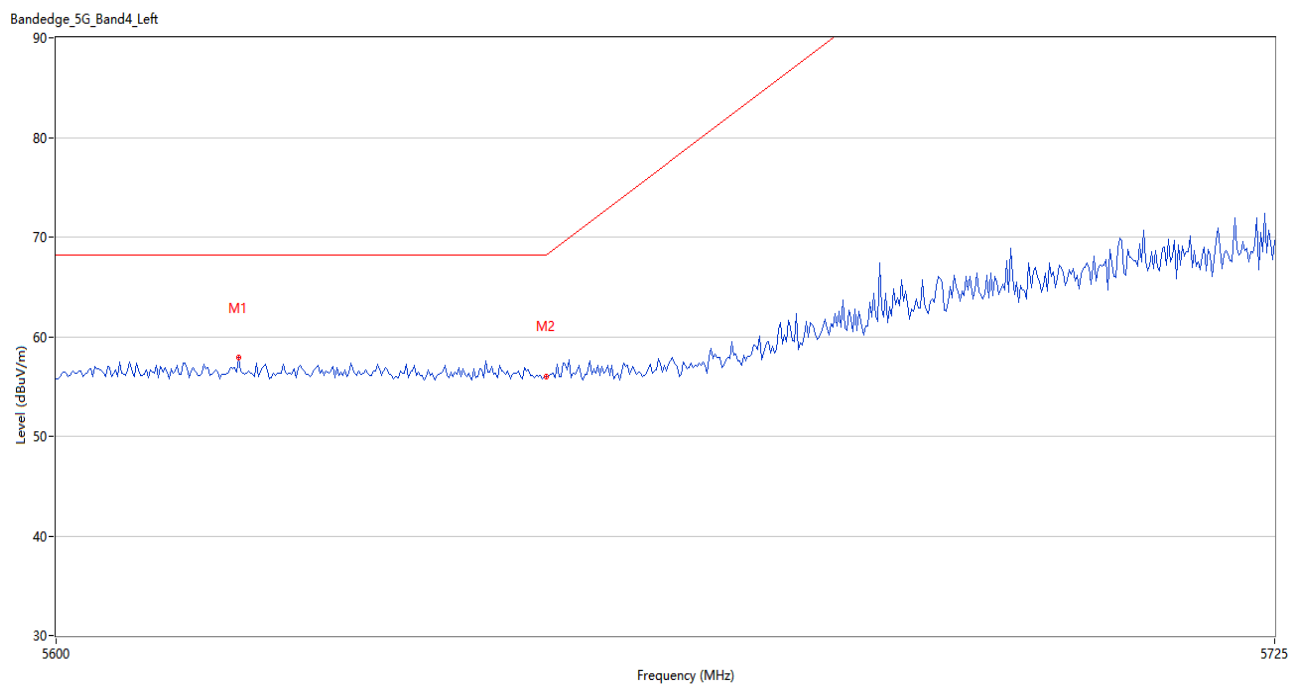
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5639.375	58.00	2.44	68.2	10.20	Peak	188.00	100	Vertical
2	5650.000	56.11	2.28	68.2	12.09	Peak	1.00	100	Vertical

U-NII-3 11n40 High Channel



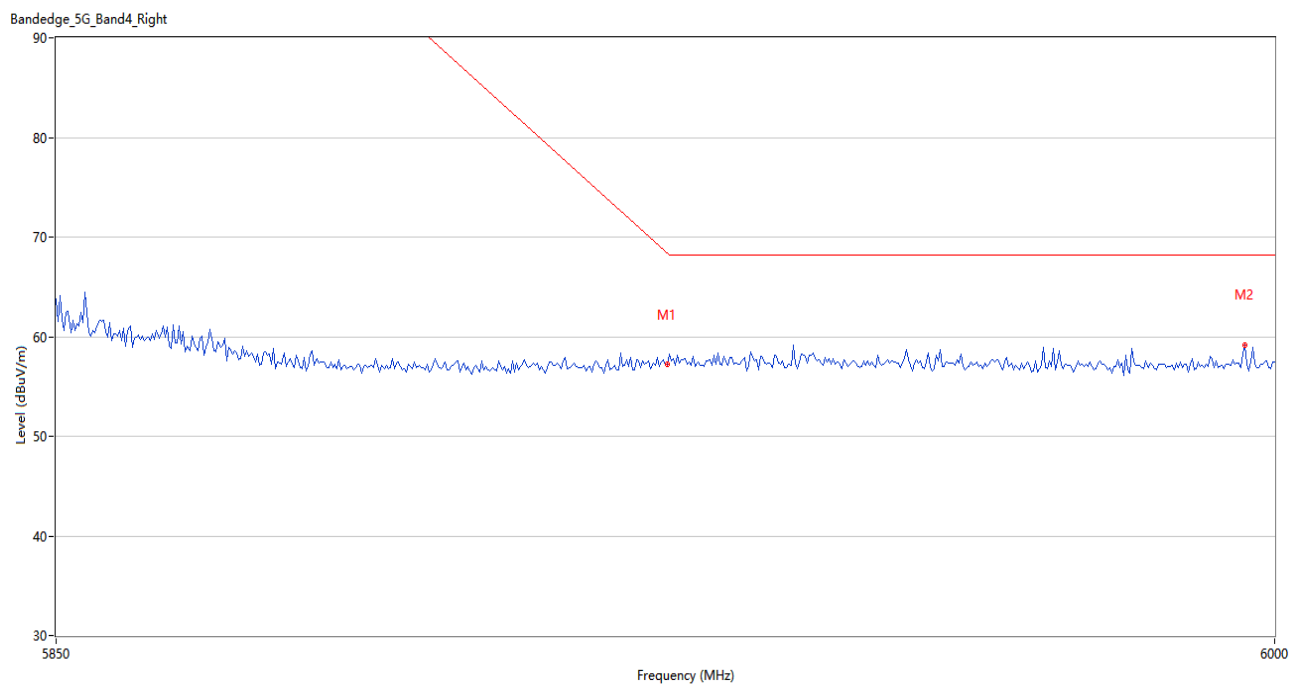
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	57.23	3.75	68.4	11.17	Peak	356.00	100	Horizontal
2	5964.500	59.10	3.63	68.2	9.10	Peak	76.00	400	Horizontal

U-NII-3 11ac80 Middle Channel



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5618.542	57.92	2.59	68.2	10.28	Peak	275.00	100	Horizontal
2	5650.000	56.02	2.28	68.2	12.18	Peak	181.00	200	Horizontal

U-NII-3 11ac80 Middle Channel



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	57.23	3.75	68.4	11.17	Peak	293.00	400	Horizontal
2	5996.250	59.19	3.52	68.2	9.01	Peak	293.00	400	Horizontal

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2540082-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2540082-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2540082-AI.PDF”.

Statement

1. The laboratory 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. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--