

TEST REPORT

Applicant: Dopple Works, Inc.
Address: 495 Embought Rd, Catskill, NY 12414 USA
Equipment Type: LOOP
Model Name: LOOP 01
Brand Name: Dopple
FCC ID: 2BN2V-LOOP01
ISED Number: 33632-LOOP01
Test Standard: 47 CFR Part 15 Subpart E
RSS-Gen Issue 5
RSS-247 Issue 3
(refer to section 3.1)
Sample Arrival Date: Jan. 10, 2025
Test Date : Jan. 11, 2025 - Feb. 09, 2025
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ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 11, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

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

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Dopple Works, Inc.
Address	495 Embought Rd, Catskill, NY 12414 USA

2.2 Manufacturer Information

Manufacturer	Dopple Works, Inc.
Address	495 Embought Rd, Catskill, NY 12414 USA

2.3 Factory Information

Factory	Huizhou Miki Technology Co. ,Ltd
Address	2nd Floor, Plant No. 39, Guangtai Road, Huinan High-Tech Industrial Park, Zhongkai High-tech Zone, Huizhou City, Guangdong Province, China

2.4 General Description for Equipment under Test (EUT)

EUT Name	LOOP
Model Name Under Test	LOOP 01
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	SC-SZ2480798-S14(conducted) SC-SZ2480798-S20(radiated)
Hardware Version	LOOP 01
Software Version	dev_FlatBuild_v.userdebug.20250210.1519
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE 1M) WiFi 2.4G: 802.11b/g/n(HT20/40) WiFi 5G: 802.11a/n(HT20/40)/ac(VHT20/40/80) NFC
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-2A: 5250 MHz to 5350 MHz, U-NII-2C: 5470 MHz to 5725 MHz, U-NII-3: 5725 MHz to 5850 MHz
Modulation technology	OFDM
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz
Maximum Output Power	U-NII-1: 17.16 dBm U-NII-2A: 17.55 dBm U-NII-2C: 16.88 dBm U-NII-3: 18.04 dBm
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: 2.60 dBi U-NII-2A: 5250 MHz to 5350 MHz: 2.60 dBi U-NII-2C: 5470 MHz to 5725 MHz: 2.60 dBi U-NII-3: 5725 MHz to 5850 MHz: 2.60 dBi
About the Product	The equipment is LOOP, intended for used with information technology equipment.

2.6 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	58	5290
44	5220	54	5270	106	5530
48	5240	62	5310	122	5610
52	5260	102	5510	155	5775
56	5280	110	5550		
60	5300	118	5590		
64	5320	126	5630		
100	5500	134	5670		
104	5520	151	5755		
108	5540	159	5795		
112	5560				
116	5580				
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
149	5745				
153	5765				
157	5785				
161	5805				
165	5825				

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

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

For 802.11a/n(HT20)/ac(VHT20)

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

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

For 802.11n(HT40)/ac(VHT40)

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

U-NII-2C (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
102	Low	5510	151	Low	5755
118	Mid	5590	159	High	5795
134	High	5670			

For 802.11ac(VHT80)

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

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

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

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
				Channel	Channel	Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
6 dB bandwidth	11a	6	BPSK	N/A	N/A	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11n(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(80 MHz)	29.3		N/A	N/A	N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
Band Edge (Restricted-band)	11a	6	BPSK	48/36	64/52	140/100	165/149
	11n(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11ac(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-247 Issue 3	Digital Transmission Systems (DTSs), Frequency Hopping Systems(FHSs) and Licence-Exemp Local Area Network (LE-LAN) Devices
4	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
5	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	RSS Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	RSS-247, 6.2	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	RSS-247, 6.2	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	RSS-247, 6.2	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	RSS-247, 6.2	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	RSS-247, 6.2	ANNEX A.4	Pass
6	Conducted Emission	15.207	RSS-GEN, 8.8	ANNEX A.5	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	RSS-247, 6.2	ANNEX A.6	Pass
8	Receiver Spurious Emissions	--	RSS-Gen, 7.1.2	--	N/A ^{Note2}

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

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	53% to 59%	
Atmospheric Pressure	101 kPa	
Temperature	NT (Normal Temperature)	+22.8°C to +23.9°C
Working Voltage of the EUT	NV (Normal Voltage)	3.7 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420147	2024.02.22	2025.02.21
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240977	2024.02.22	2025.02.21
Signal Generator	Anritsu	MG3710E	6262063515	2024.02.22	2025.02.21
Wideband Radio Communication Tester	R&S	CMW500	168792	2024.02.22	2025.02.21
EMI Receiver	KEYSIGHT	N9038A	MY55330122	2024.07.09	2025.07.08
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-177	2024.03.11	2027.03.10
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-1203	2024.03.11	2027.03.10
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-2134	2024.03.11	2027.03.10
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400-KF	J211060307	2024.03.11	2027.03.10
Anechoic Chamber	YiHeng	9m*6m*6m	EMC001	2024.04.18	2027.04.17
EMI Receiver	KEYSIGHT	N9038A	MY55330115	2024.02.19	2025.02.18
LISN	SCHWARZBECK	NSLK 8127	8127-940	2024.02.25	2025.02.24
10dB Limiter	SCHWARZBECK	VTSD 9561-F	9561-F N00409	2024.02.19	2025.02.18
Shielded Room	YiHeng	5m*4m*3.2 m	EMC006	2024.02.22	2027.02.21

4.3 Test Software List

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

4.4 Decision Rule

☐ No Need

☒ Use General conformity decision rule (Consider uncertainty or not ☒No ☐Yes)

☐ Use Special Conformity Decision Rule (Consider uncertainty or not ☐No ☐Yes)

4.5 Measurement Uncertainty

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

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

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

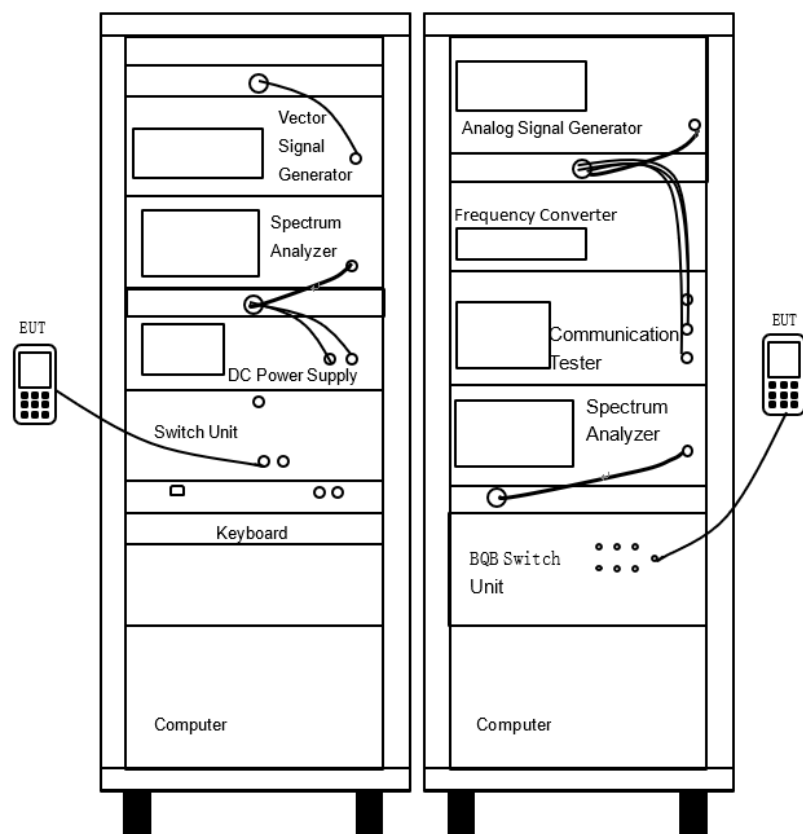
4.6 Description of Test Setup

4.6.1 For Antenna Port Test

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

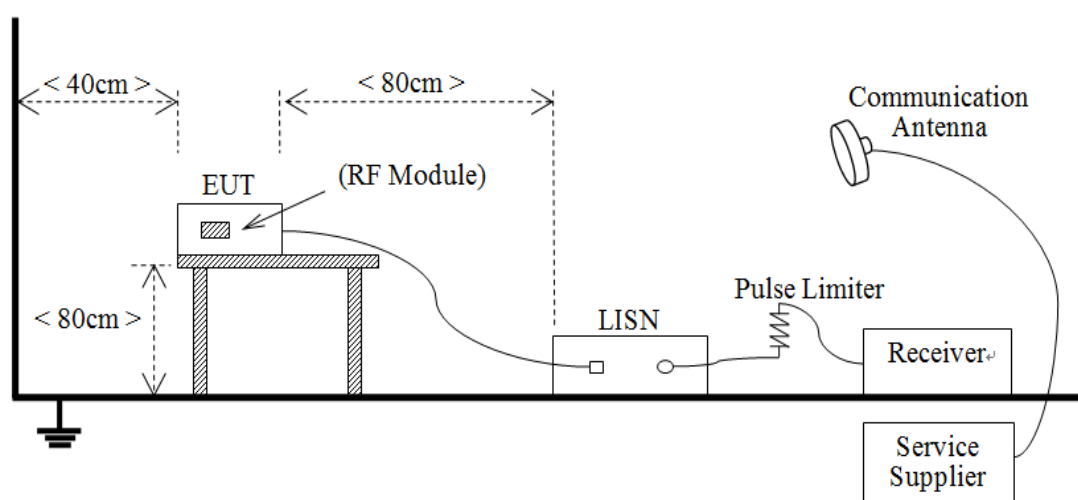
For example: the measurement value is 10 dBm and the cable 0.5 dB used, then the final result of EUT:

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



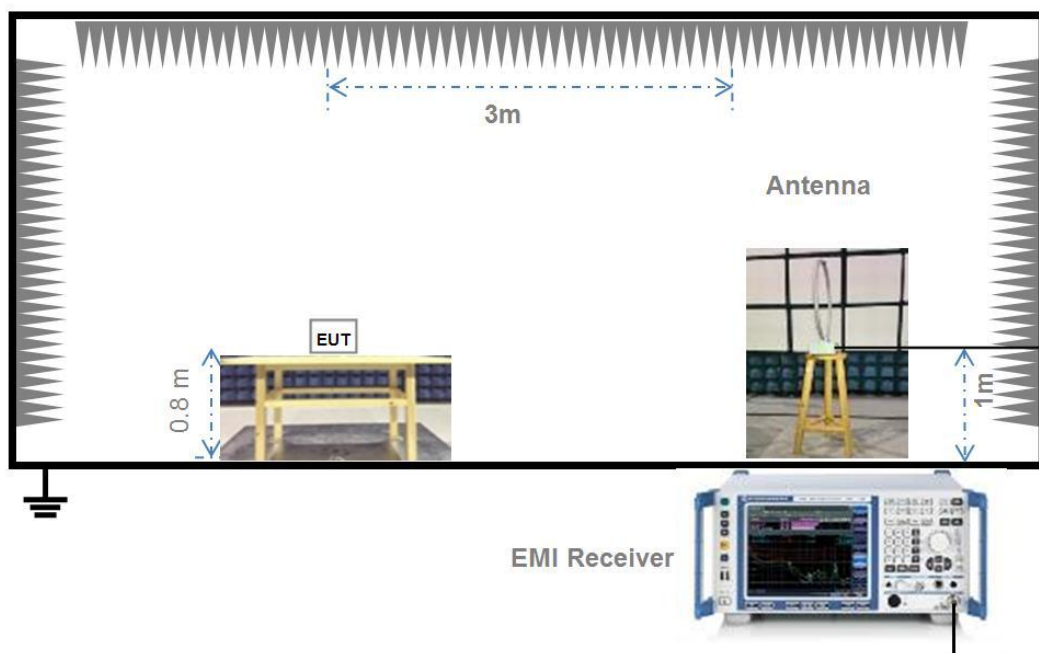
(Diagram 1)

4.6.2 For AC Power Supply Port Test



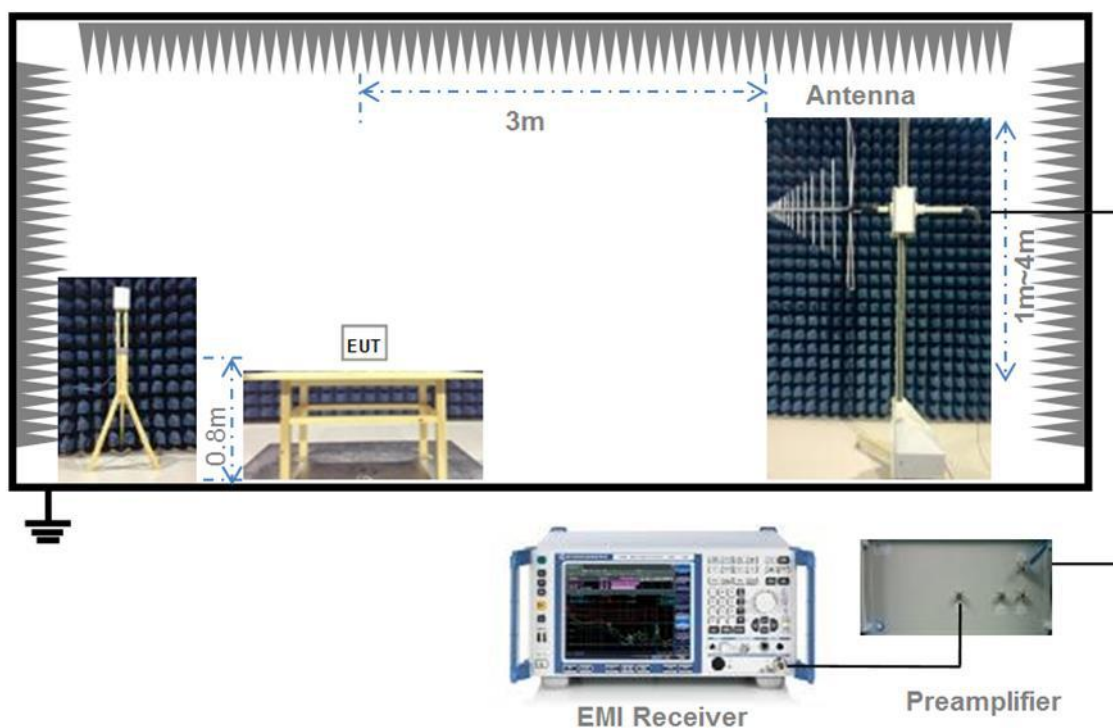
(Diagram 2)

4.6.3 For Radiated Test (Below 30 MHz)



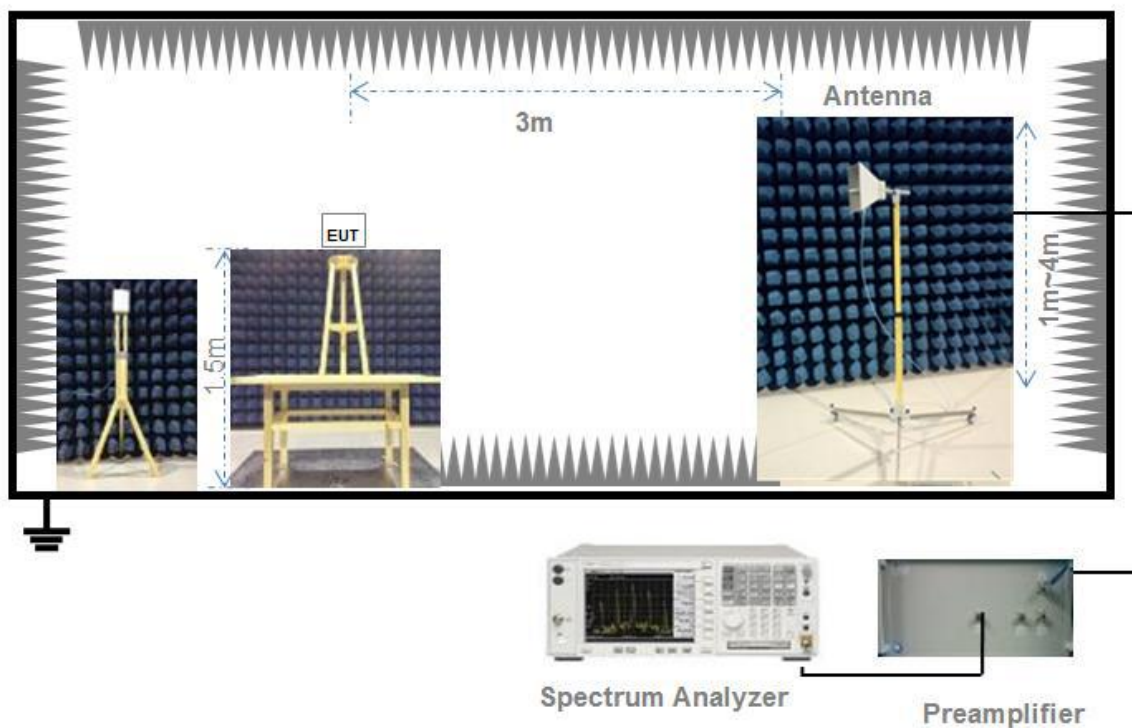
(Diagram 3)

4.6.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.6.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

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The maximum conducted output power shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	N/A
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where "B" is the 99% emissions bandwidth in MHz.	

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

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Maximum conducted (average) output power

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

- 1) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.

- c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- d) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle.

Measurements of duty cycle

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

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

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

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

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

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

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a), RSS-247, 6.2

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Emission bandwidth

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

Occupied Bandwidth

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

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

RSS-247, 6.2

The maximum power spectral density should not exceed:

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

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

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

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

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207, RSS-GEN, 8.8

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

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

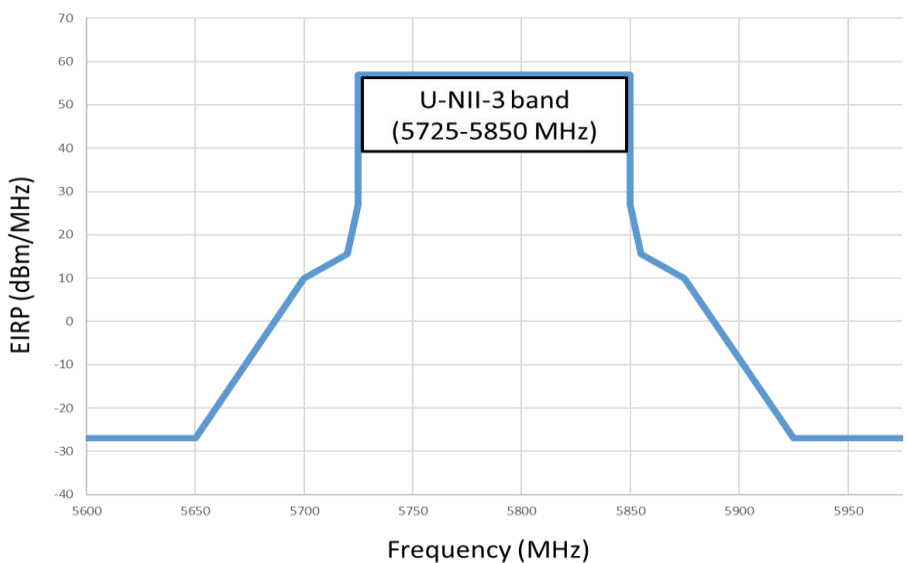
5.5.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

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

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

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

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

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

5.5.2 Test Setup

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

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

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

Table 1—RBW as a function of frequency

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

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

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

Note 2: For IC standard, the U-NII-3 (5725 - 5850 MHz) maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	2.03	2.07	98.40%
11n (HT20)/11ac (VHT20)	1.89	1.92	98.13%
11n (HT40)/11ac (VHT40)	0.92	0.96	95.39%
11ac (VHT80)	0.46	0.49	92.43%

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	16.90	48.98	250	Pass
11a	CH44	17.16	52.00	250	Pass
11a	CH48	17.15	51.88	250	Pass
11n (HT20)	CH36	16.16	41.30	250	Pass
11n (HT20)	CH44	16.47	44.36	250	Pass
11n (HT20)	CH48	16.50	44.67	250	Pass
11n (HT40)	CH38	15.58	36.14	250	Pass
11n (HT40)	CH46	17.00	50.12	250	Pass
11ac (VHT20)	CH36	15.49	35.40	250	Pass
11ac (VHT20)	CH44	15.78	37.84	250	Pass
11ac (VHT20)	CH48	15.78	37.84	250	Pass
11ac (VHT40)	CH38	14.51	28.25	250	Pass
11ac (VHT40)	CH46	16.21	41.78	250	Pass
11ac (VHT80)	CH42	14.08	25.59	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	17.55	56.89	250	Pass
11a	CH60	17.23	52.84	250	Pass
11a	CH64	17.39	54.83	250	Pass
11n (HT20)	CH52	16.67	46.45	250	Pass
11n (HT20)	CH60	16.39	43.55	250	Pass
11n (HT20)	CH64	16.28	42.46	250	Pass
11n (HT40)	CH54	17.13	51.64	250	Pass
11n (HT40)	CH62	14.03	25.29	250	Pass
11ac (VHT20)	CH52	15.66	36.81	250	Pass
11ac (VHT20)	CH60	15.31	33.96	250	Pass
11ac (VHT20)	CH64	15.39	34.59	250	Pass
11ac (VHT40)	CH54	16.06	40.36	250	Pass
11ac (VHT40)	CH62	13.33	21.53	250	Pass
11ac (VHT80)	CH58	14.35	27.23	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	16.04	40.18	250	Pass
11a	CH116	16.51	44.77	250	Pass
11a	CH140	13.41	21.93	250	Pass
11n (HT20)	CH100	15.93	39.17	250	Pass
11n (HT20)	CH116	15.93	39.17	250	Pass
11n (HT20)	CH140	13.35	21.63	250	Pass
11n (HT40)	CH102	13.21	20.94	250	Pass
11n (HT40)	CH118	16.30	42.66	250	Pass
11n (HT40)	CH134	16.88	48.75	250	Pass
11ac (VHT20)	CH100	15.65	36.73	250	Pass
11ac (VHT20)	CH116	15.30	33.88	250	Pass
11ac (VHT20)	CH140	12.66	18.45	250	Pass
11ac (VHT40)	CH102	13.05	20.18	250	Pass
11ac (VHT40)	CH118	15.79	37.93	250	Pass
11ac (VHT40)	CH134	16.24	42.07	250	Pass
11ac (VHT80)	CH106	12.59	18.16	250	Pass
11ac (VHT80)	CH122	16.04	40.18	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	18.04	63.68	1000	Pass
11a	CH157	17.99	62.95	1000	Pass
11a	CH165	16.86	48.53	1000	Pass
11n (HT20)	CH149	17.71	59.02	1000	Pass
11n (HT20)	CH157	17.30	53.70	1000	Pass
11n (HT20)	CH165	16.11	40.83	1000	Pass
11n (HT40)	CH151	17.96	62.52	1000	Pass
11n (HT40)	CH159	17.36	54.45	1000	Pass
11ac (VHT20)	CH149	16.71	46.88	1000	Pass
11ac (VHT20)	CH157	16.56	45.29	1000	Pass
11ac (VHT20)	CH165	15.31	33.96	1000	Pass
11ac (VHT40)	CH151	17.40	54.95	1000	Pass
11ac (VHT40)	CH159	16.81	47.97	1000	Pass
11ac (VHT80)	CH155	14.77	29.99	1000	Pass

EIRP Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH36	19.50	89.13	167	Pass
11a	CH44	19.76	94.62	167	Pass
11a	CH48	19.75	94.41	167	Pass
11n (HT20)	CH36	18.76	75.16	178	Pass
11n (HT20)	CH44	19.07	80.72	178	Pass
11n (HT20)	CH48	19.10	81.28	178	Pass
11n (HT40)	CH38	18.18	65.77	200	Pass
11n (HT40)	CH46	19.60	91.20	200	Pass
11ac (VHT20)	CH36	18.09	64.42	178	Pass
11ac (VHT20)	CH44	18.38	68.87	178	Pass
11ac (HVT20)	CH48	18.38	68.87	178	Pass
11ac (VHT40)	CH38	17.11	51.40	200	Pass
11ac (VHT40)	CH46	18.81	76.03	200	Pass
11ac (VHT80)	CH42	16.68	46.56	200	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH52	20.15	103.51	833	Pass
11a	CH60	19.83	96.16	833	Pass
11a	CH64	19.99	99.77	834	Pass
11n (HT20)	CH52	19.27	84.53	890	Pass
11n (HT20)	CH60	18.99	79.25	890	Pass
11n (HT20)	CH64	18.88	77.27	890	Pass
11n (HT40)	CH54	19.73	93.97	1000	Pass
11n (HT40)	CH62	16.63	46.03	1000	Pass
11ac (VHT20)	CH52	18.26	66.99	890	Pass
11ac (VHT20)	CH60	17.91	61.80	890	Pass
11ac (HVT20)	CH64	17.99	62.95	889	Pass
11ac (VHT40)	CH54	18.66	73.45	1000	Pass
11ac (VHT40)	CH62	15.93	39.17	1000	Pass
11ac (VHT80)	CH58	16.95	49.55	1000	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	EIRP Limit (mW)	Verdict
11a	CH100	18.64	73.11	834	Pass
11a	CH116	19.11	81.47	834	Pass
11a	CH140	16.01	39.90	833	Pass
11n (HT20)	CH100	18.53	71.29	890	Pass
11n (HT20)	CH116	18.53	71.29	890	Pass
11n (HT20)	CH140	15.95	39.36	891	Pass
11n (HT40)	CH102	15.81	38.11	1000	Pass
11n (HT40)	CH118	18.90	77.62	1000	Pass
11n (HT40)	CH134	19.48	88.72	1000	Pass
11ac (VHT20)	CH100	18.25	66.83	891	Pass
11ac (VHT20)	CH116	17.90	61.66	890	Pass
11ac (VHT20)	CH140	15.26	33.57	890	Pass
11ac (VHT40)	CH102	15.65	36.73	1000	Pass
11ac (VHT40)	CH118	18.39	69.02	1000	Pass
11ac (VHT40)	CH134	18.84	76.56	1000	Pass
11ac (VHT80)	CH106	15.19	33.04	1000	Pass
11ac (VHT80)	CH122	16.54	45.08	1000	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	EIRP Power (dBm)	EIRP Power (mW)	Verdict
11a	CH149	20.64	115.88	Pass
11a	CH157	20.59	114.55	Pass
11a	CH165	19.46	88.31	Pass
11n (HT20)	CH149	20.31	107.40	Pass
11n (HT20)	CH157	19.90	97.72	Pass
11n (HT20)	CH165	18.71	74.30	Pass
11n (HT40)	CH151	20.56	113.76	Pass
11n (HT40)	CH159	19.96	99.08	Pass
11ac (VHT20)	CH149	19.31	85.31	Pass
11ac (VHT20)	CH157	19.16	82.41	Pass
11ac (VHT20)	CH165	17.91	61.80	Pass
11ac (VHT40)	CH151	20.00	100.00	Pass
11ac (VHT40)	CH159	19.41	87.30	Pass
11ac (VHT80)	CH155	17.37	54.58	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ24A0252-604 Data Part 1.pdf".

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	23.56	16.66
11a	CH44	24.00	16.70
11a	CH48	23.59	16.71
11n (HT20)	CH36	23.83	17.82
11n (HT20)	CH44	23.87	17.81
11n (HT20)	CH48	24.15	17.82
11n (HT40)	CH38	41.40	36.26
11n (HT40)	CH46	41.49	36.25
11ac (VHT20)	CH36	23.55	17.80
11ac (VHT20)	CH44	23.79	17.81
11ac (VHT20)	CH48	24.69	17.83
11ac (VHT40)	CH38	41.25	36.27
11ac (VHT40)	CH46	41.29	36.23
11ac (VHT80)	CH42	94.73	76.13

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	22.67	16.62
11a	CH60	23.07	16.63
11a	CH64	22.87	16.64
11n (HT20)	CH52	23.86	17.77
11n (HT20)	CH60	23.48	17.76
11n (HT20)	CH64	23.54	17.76
11n (HT40)	CH54	41.64	36.21
11n (HT40)	CH62	41.42	36.20
11ac (VHT20)	CH52	22.99	17.76
11ac (VHT20)	CH60	22.75	17.77
11ac (VHT20)	CH64	22.96	17.74
11ac (VHT40)	CH54	41.30	36.21
11ac (VHT40)	CH62	41.22	36.24
11ac (VHT80)	CH58	90.15	76.03

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	22.93	16.65
11a	CH116	22.59	16.64
11a	CH140	22.69	16.62
11n (HT20)	CH100	23.60	17.76
11n (HT20)	CH116	23.60	17.77
11n (HT20)	CH140	23.44	17.77
11n (HT40)	CH102	41.56	36.23
11n (HT40)	CH118	41.14	36.25
11n (HT40)	CH134	41.42	36.22
11ac (VHT20)	CH100	22.95	17.77
11ac (VHT20)	CH116	23.73	17.75
11ac (VHT20)	CH140	23.45	17.75
11ac (VHT40)	CH102	41.43	36.25
11ac (VHT40)	CH118	41.57	36.24
11ac (VHT40)	CH134	41.17	36.21
11ac (VHT80)	CH106	82.87	75.83
11ac (VHT80)	CH122	94.90	76.26

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	22.59	16.61
11a	CH157	22.41	16.63
11a	CH165	22.85	16.64
11n (HT20)	CH149	23.50	17.76
11n (HT20)	CH157	23.50	17.77
11n (HT20)	CH165	23.24	17.77
11n (HT40)	CH151	41.64	36.26
11n (HT40)	CH159	41.27	36.30
11ac (VHT20)	CH149	23.42	17.77
11ac (VHT20)	CH157	23.65	17.78
11ac (VHT20)	CH165	23.30	17.78
11ac (VHT40)	CH151	41.31	36.25
11ac (VHT40)	CH159	41.31	36.27
11ac (VHT80)	CH155	105.80	76.37

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ24A0252-604 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.90	500.00	Pass
11a	CH157	15.40	500.00	Pass
11a	CH165	15.30	500.00	Pass
11n (HT20)	CH149	15.40	500.00	Pass
11n (HT20)	CH157	15.30	500.00	Pass
11n (HT20)	CH165	15.50	500.00	Pass
11n (HT40)	CH151	36.10	500.00	Pass
11n (HT40)	CH159	36.50	500.00	Pass
11ac (VHT20)	CH149	15.50	500.00	Pass
11ac (VHT20)	CH157	16.20	500.00	Pass
11ac (VHT20)	CH165	15.40	500.00	Pass
11ac (VHT40)	CH151	36.00	500.00	Pass
11ac (VHT40)	CH159	35.80	500.00	Pass
11ac (VHT80)	CH155	75.30	500.00	Pass

A.4 Power Spectral Density

Note¹: Test plots please refer to the document “Annex No.: BL-SZ24A0252-604 Data Part 3.pdf”.

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

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	3.24	11.00	Pass
11a	CH44	3.55	11.00	Pass
11a	CH48	3.29	11.00	Pass
11n (HT20)	CH36	2.01	11.00	Pass
11n (HT20)	CH44	2.44	11.00	Pass
11n (HT20)	CH48	2.49	11.00	Pass
11n (HT40)	CH38	-0.97	11.00	Pass
11n (HT40)	CH46	0.09	11.00	Pass
11ac (VHT20)	CH36	1.37	11.00	Pass
11ac (VHT20)	CH44	1.81	11.00	Pass
11ac (VHT20)	CH48	1.83	11.00	Pass
11ac (VHT40)	CH38	-2.05	11.00	Pass
11ac (VHT40)	CH46	-0.66	11.00	Pass
11ac (VHT80)	CH42	-5.99	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	3.57	11.00	Pass
11a	CH60	3.43	11.00	Pass
11a	CH64	3.48	11.00	Pass
11n (HT20)	CH52	2.95	11.00	Pass
11n (HT20)	CH60	2.32	11.00	Pass
11n (HT20)	CH64	2.14	11.00	Pass
11n (HT40)	CH54	0.37	11.00	Pass
11n (HT40)	CH62	-2.13	11.00	Pass
11ac (VHT20)	CH52	1.81	11.00	Pass
11ac (VHT20)	CH60	1.18	11.00	Pass
11ac (VHT20)	CH64	1.16	11.00	Pass
11ac (VHT40)	CH54	-0.79	11.00	Pass
11ac (VHT40)	CH62	-5.30	11.00	Pass
11ac (VHT80)	CH58	-5.87	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	3.05	11.00	Pass
11a	CH116	2.58	11.00	Pass
11a	CH140	0.97	11.00	Pass
11n (HT20)	CH100	2.58	11.00	Pass
11n (HT20)	CH116	1.56	11.00	Pass
11n (HT20)	CH140	0.33	11.00	Pass
11n (HT40)	CH102	-4.78	11.00	Pass
11n (HT40)	CH118	-1.23	11.00	Pass
11n (HT40)	CH134	-0.09	11.00	Pass
11ac (VHT20)	CH100	1.40	11.00	Pass
11ac (VHT20)	CH116	0.79	11.00	Pass
11ac (VHT20)	CH140	-1.60	11.00	Pass
11ac (VHT40)	CH102	-5.82	11.00	Pass
11ac (VHT40)	CH118	-1.80	11.00	Pass
11ac (VHT40)	CH134	-0.71	11.00	Pass
11ac (VHT80)	CH106	-9.00	11.00	Pass
11ac (VHT80)	CH122	-6.78	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	1.49	30.00	Pass
11a	CH157	0.12	30.00	Pass
11a	CH165	0.09	30.00	Pass
11n (HT20)	CH149	1.03	30.00	Pass
11n (HT20)	CH157	0.36	30.00	Pass
11n (HT20)	CH165	-0.94	30.00	Pass
11n (HT40)	CH151	-1.84	30.00	Pass
11n (HT40)	CH159	-2.63	30.00	Pass
11ac (VHT20)	CH149	-0.02	30.00	Pass
11ac (VHT20)	CH157	-0.47	30.00	Pass
11ac (VHT20)	CH165	-1.60	30.00	Pass
11ac (VHT40)	CH151	-2.25	30.00	Pass
11ac (VHT40)	CH159	-3.43	30.00	Pass
11ac (VHT80)	CH155	-8.22	30.00	Pass

EIRP PSD

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	EIRP Limit (dBm/MHz)	Verdict
11a	CH36	5.84	10.00	Pass
11a	CH44	6.15	10.00	Pass
11a	CH48	5.89	10.00	Pass
11n (HT20)	CH36	4.61	10.00	Pass
11n (HT20)	CH44	5.04	10.00	Pass
11n (HT20)	CH48	5.09	10.00	Pass
11n (HT40)	CH38	1.63	10.00	Pass
11n (HT40)	CH46	2.69	10.00	Pass
11ac (VHT20)	CH36	3.97	10.00	Pass
11ac (VHT20)	CH44	4.41	10.00	Pass
11ac (VHT20)	CH48	4.43	10.00	Pass
11ac (VHT40)	CH38	0.55	10.00	Pass
11ac (VHT40)	CH46	1.94	10.00	Pass
11ac (VHT80)	CH42	-3.39	10.00	Pass

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH52	6.17	Pass
11a	CH60	6.03	Pass
11a	CH64	6.08	Pass
11n (HT20)	CH52	5.55	Pass
11n (HT20)	CH60	4.92	Pass
11n (HT20)	CH64	4.74	Pass
11n (HT40)	CH54	2.97	Pass
11n (HT40)	CH62	0.47	Pass
11ac (VHT20)	CH52	4.41	Pass
11ac (VHT20)	CH60	3.78	Pass
11ac (VHT20)	CH64	3.76	Pass
11ac (VHT40)	CH54	1.81	Pass
11ac (VHT40)	CH62	-2.70	Pass
11ac (VHT80)	CH58	-3.27	Pass

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH100	5.65	Pass
11a	CH116	5.18	Pass
11a	CH140	3.57	Pass
11n (HT20)	CH100	5.18	Pass
11n (HT20)	CH116	4.16	Pass
11n (HT20)	CH140	2.93	Pass
11n (HT40)	CH102	-2.18	Pass
11n (HT40)	CH118	1.37	Pass
11n (HT40)	CH134	2.51	Pass
11ac (VHT20)	CH100	4.00	Pass
11ac (VHT20)	CH116	3.39	Pass
11ac (VHT20)	CH140	1.00	Pass
11ac (VHT40)	CH102	-3.22	Pass
11ac (VHT40)	CH118	0.80	Pass
11ac (VHT40)	CH134	1.89	Pass
11ac (VHT80)	CH106	-6.40	Pass
11ac (VHT80)	CH122	-4.18	Pass

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	PSD (dBm/MHz)	Verdict
11a	CH149	4.09	Pass
11a	CH157	2.72	Pass
11a	CH165	2.69	Pass
11n (HT20)	CH149	3.63	Pass
11n (HT20)	CH157	2.96	Pass
11n (HT20)	CH165	1.66	Pass
11n (HT40)	CH151	0.76	Pass
11n (HT40)	CH159	-0.03	Pass
11ac (VHT20)	CH149	2.58	Pass
11ac (VHT20)	CH157	2.13	Pass
11ac (VHT20)	CH165	1.00	Pass
11ac (VHT40)	CH151	0.35	Pass
11ac (VHT40)	CH159	-0.83	Pass
11ac (VHT80)	CH155	-5.62	Pass

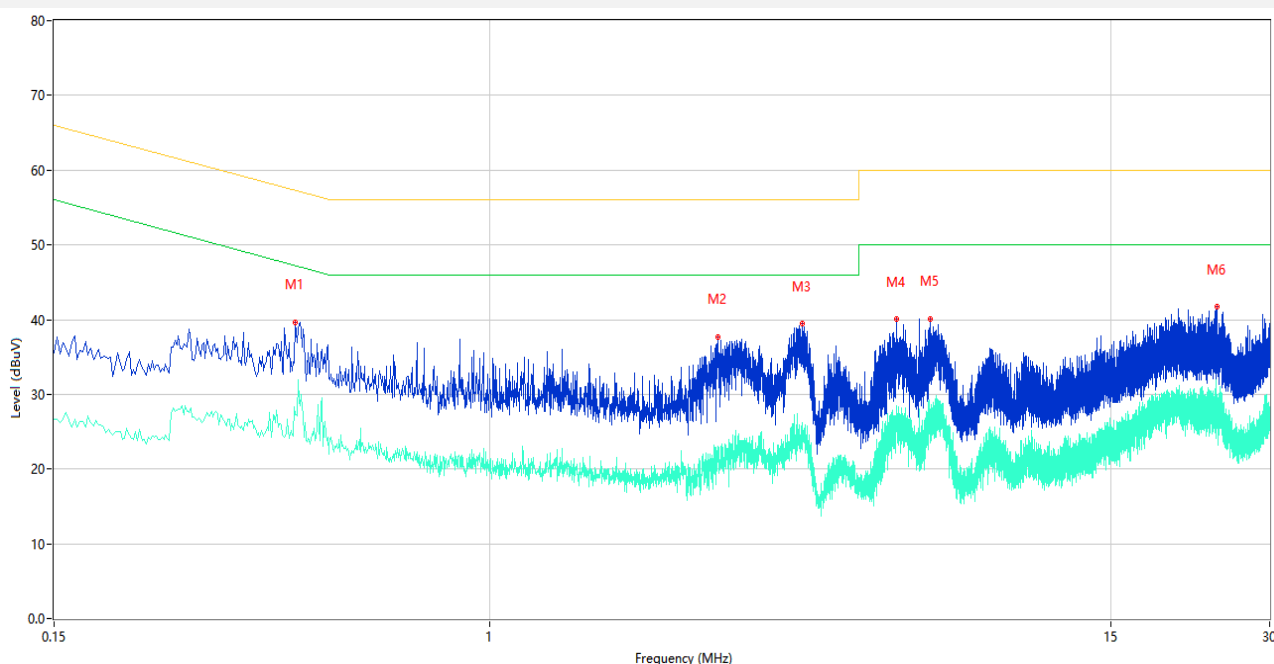
A.5 Conducted Emission

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

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

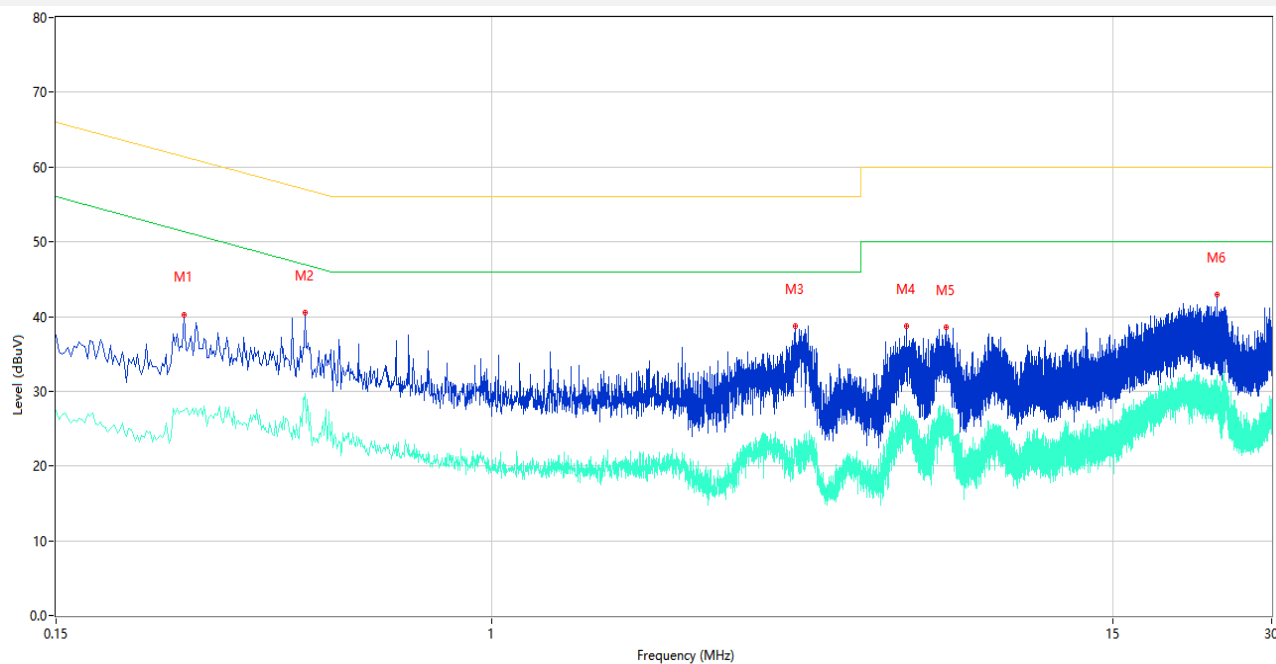
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.430	39.69	10.58	57.25	17.56	Peak	L	Pass
1**	0.430	27.21	10.58	47.25	20.04	AV	L	Pass
2	2.714	37.73	10.58	56.00	18.27	Peak	L	Pass
2**	2.714	21.79	10.58	46.00	24.21	AV	L	Pass
3	3.910	39.46	10.74	56.00	16.54	Peak	L	Pass
3**	3.910	26.20	10.74	46.00	19.80	AV	L	Pass
4	5.906	40.09	11.44	60.00	19.91	Peak	L	Pass
4**	5.906	28.44	11.44	50.00	21.56	AV	L	Pass
5	6.840	40.15	11.35	60.00	19.85	Peak	L	Pass
5**	6.840	27.99	11.35	50.00	22.01	AV	L	Pass
6	23.884	41.75	15.99	60.00	18.25	Peak	L	Pass
6**	23.884	30.05	15.99	50.00	19.95	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.262	40.30	10.03	61.37	21.07	Peak	N	Pass
1**	0.262	27.46	10.03	51.37	23.91	AV	N	Pass
2	0.444	40.50	10.56	56.99	16.49	Peak	N	Pass
2**	0.444	29.69	10.56	46.99	17.30	AV	N	Pass
3	3.758	38.69	11.15	56.00	17.31	Peak	N	Pass
3**	3.758	23.18	11.15	46.00	22.82	AV	N	Pass
4	6.106	38.70	11.19	60.00	21.30	Peak	N	Pass
4**	6.106	23.22	11.19	50.00	26.78	AV	N	Pass
5	7.274	38.51	11.38	60.00	21.49	Peak	N	Pass
5**	7.274	25.32	11.38	50.00	24.68	AV	N	Pass
6	23.622	42.92	16.00	60.00	17.08	Peak	N	Pass
6**	23.622	30.32	16.00	50.00	19.68	AV	N	Pass

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

A.6.1 Radiated Spurious Emissions

Test Data

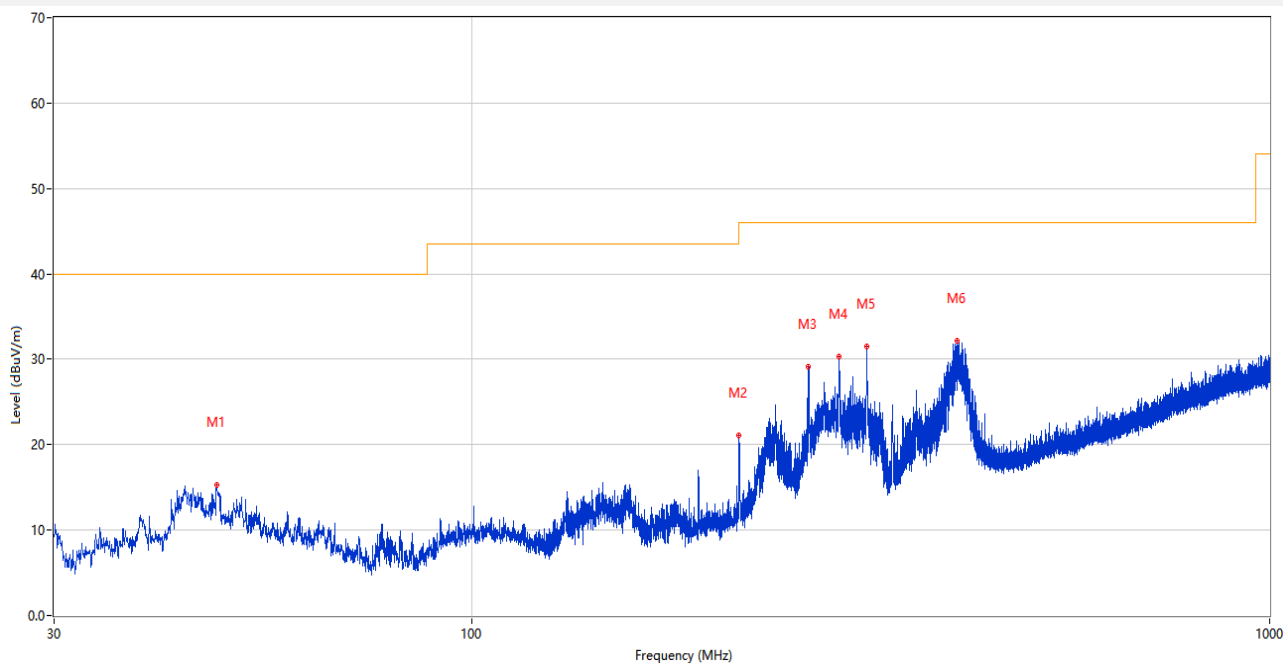
Note 1: The symbol of "--" in the table which means not application.

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

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

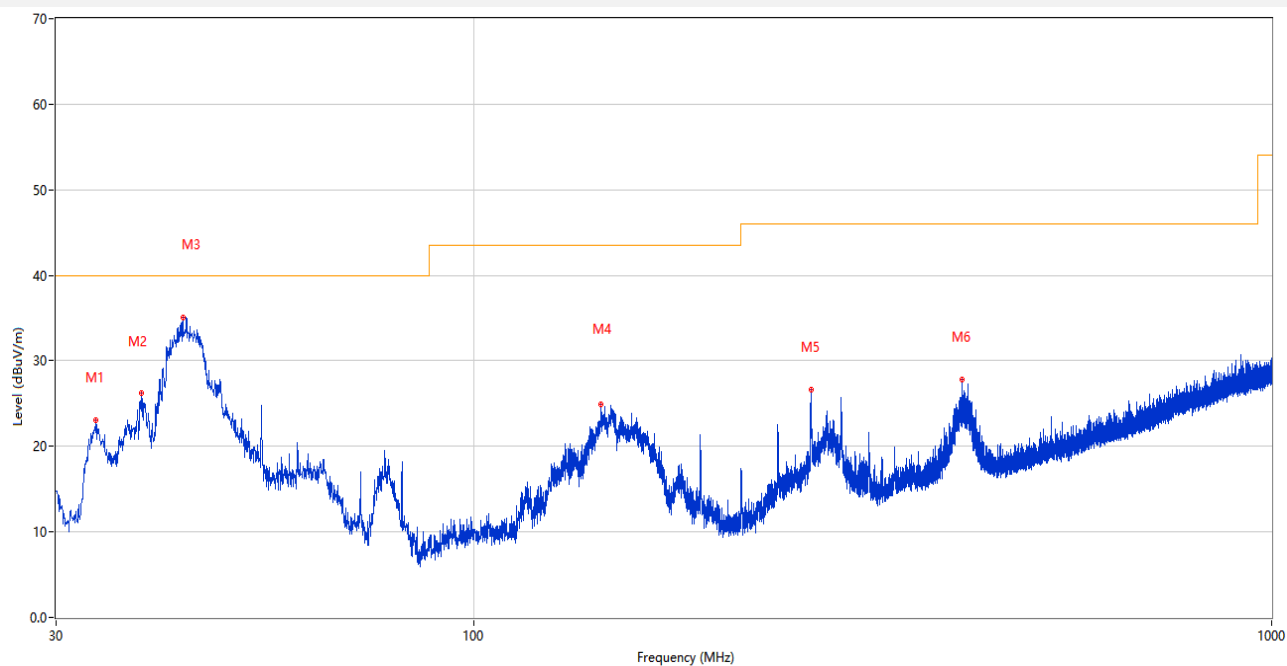
Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.945	15.25	-24.85	40.0	24.75	Peak	167.00	100	Horizontal	Pass
2	216.531	21.04	-26.50	46.0	24.96	Peak	50.00	100	Horizontal	Pass
3	264.546	29.09	-24.59	46.0	16.91	Peak	80.00	100	Horizontal	Pass
4	288.699	30.32	-23.83	46.0	15.68	Peak	58.00	100	Horizontal	Pass
5	312.803	31.50	-23.30	46.0	14.50	Peak	78.00	100	Horizontal	Pass
6	405.875	32.20	-20.81	46.0	13.80	Peak	244.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

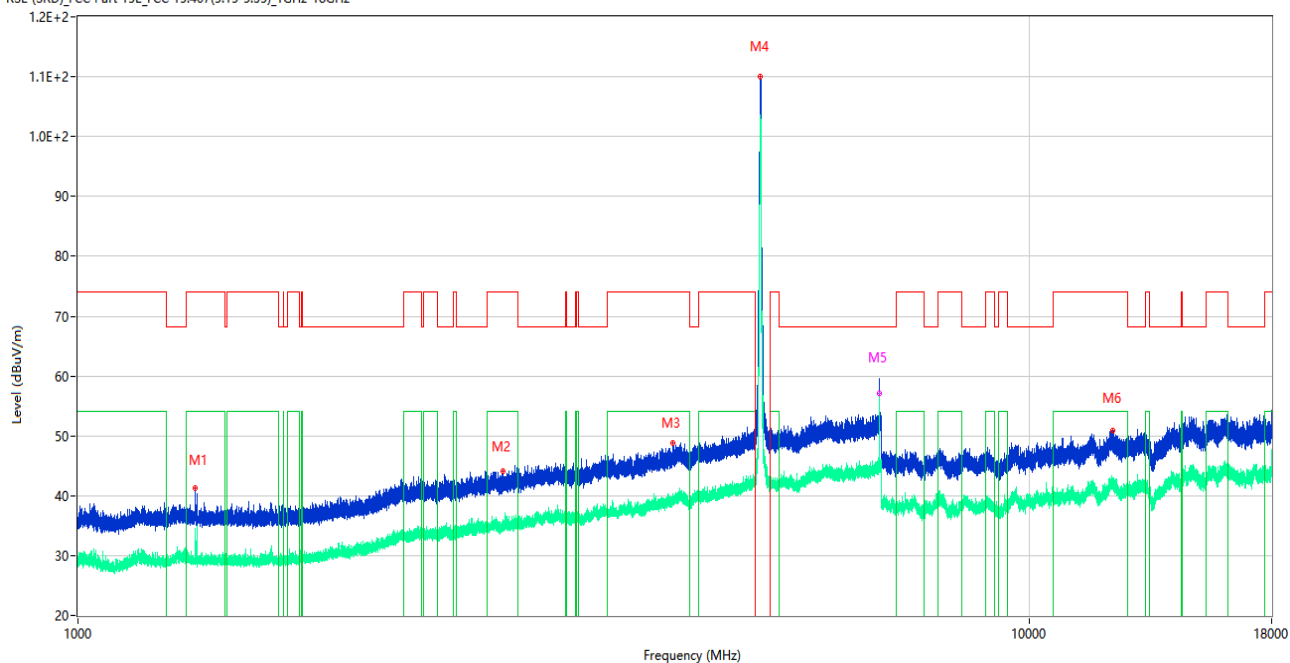


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	33.686	23.05	-29.84	40.0	16.95	Peak	308.00	100	Vertical	Pass
2	38.342	26.22	-26.34	40.0	13.78	Peak	155.00	100	Vertical	Pass
3	43.289	35.04	-25.32	40.0	4.96	Peak	316.00	100	Vertical	Pass
4	144.412	24.89	-30.56	43.5	18.61	Peak	40.00	100	Vertical	Pass
5	264.643	26.65	-24.58	46.0	19.35	Peak	28.00	100	Vertical	Pass
6	409.852	27.85	-20.67	46.0	18.15	Peak	57.00	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

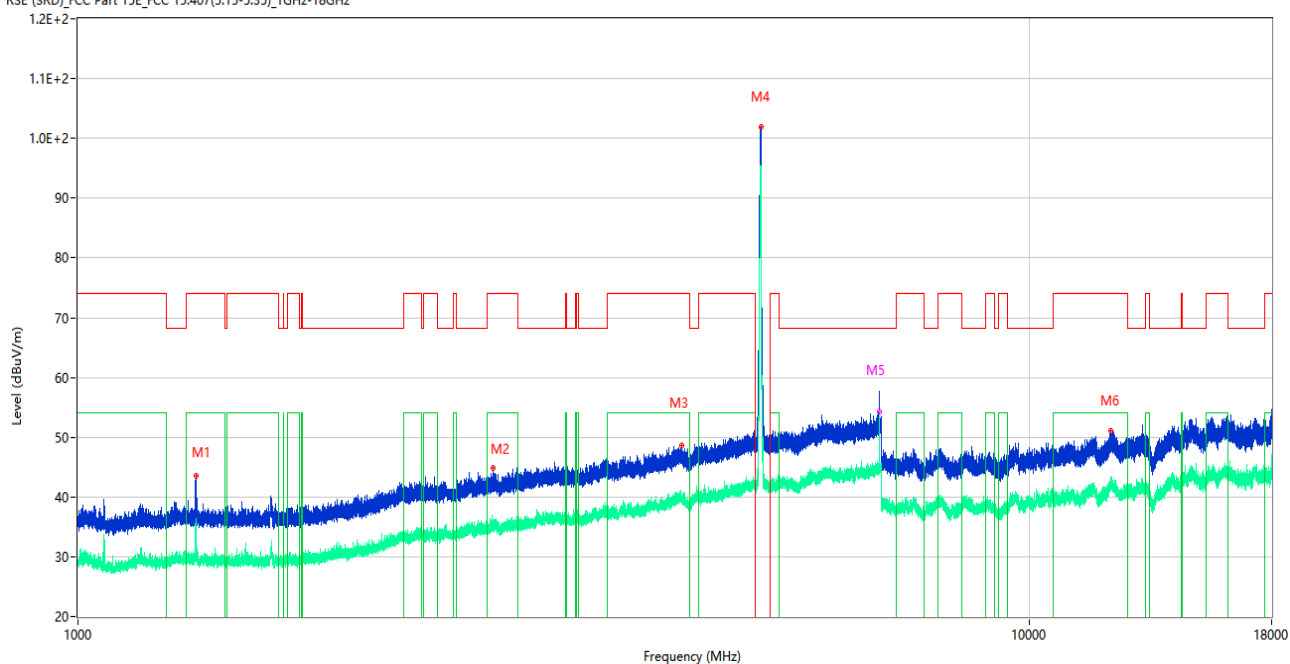
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.200	41.30	-17.45	74.0	32.70	Peak	265.00	200	Horizontal	Pass
1**	1327.200	31.09	-17.45	54.0	22.91	AV	265.00	200	Horizontal	Pass
2	2799.800	44.16	-10.73	74.0	29.84	Peak	0.00	400	Horizontal	Pass
2**	2799.800	34.52	-10.73	54.0	19.48	AV	0.00	400	Horizontal	Pass
3	4225.600	48.78	-4.43	74.0	25.22	Peak	360.00	150	Horizontal	Pass
3**	4225.600	39.40	-4.43	54.0	14.60	AV	360.00	150	Horizontal	Pass
4	5223.000	110.04	-3.33	--	--	Peak	110.00	100	Horizontal	N/A
4**	5223.000	101.97	-3.33	--	--	AV	110.00	100	Horizontal	N/A
5	6960.000	59.64	-0.48	68.2	8.56	Peak	168.00	150	Horizontal	Pass
5**	6960.000	57.08	-0.48	--	--	AV	168.00	150	Horizontal	N/A
6	12246.587	50.87	2.52	74.0	23.13	Peak	253.00	100	Horizontal	Pass
6**	12246.587	42.53	2.52	54.0	11.47	AV	253.00	100	Horizontal	Pass

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

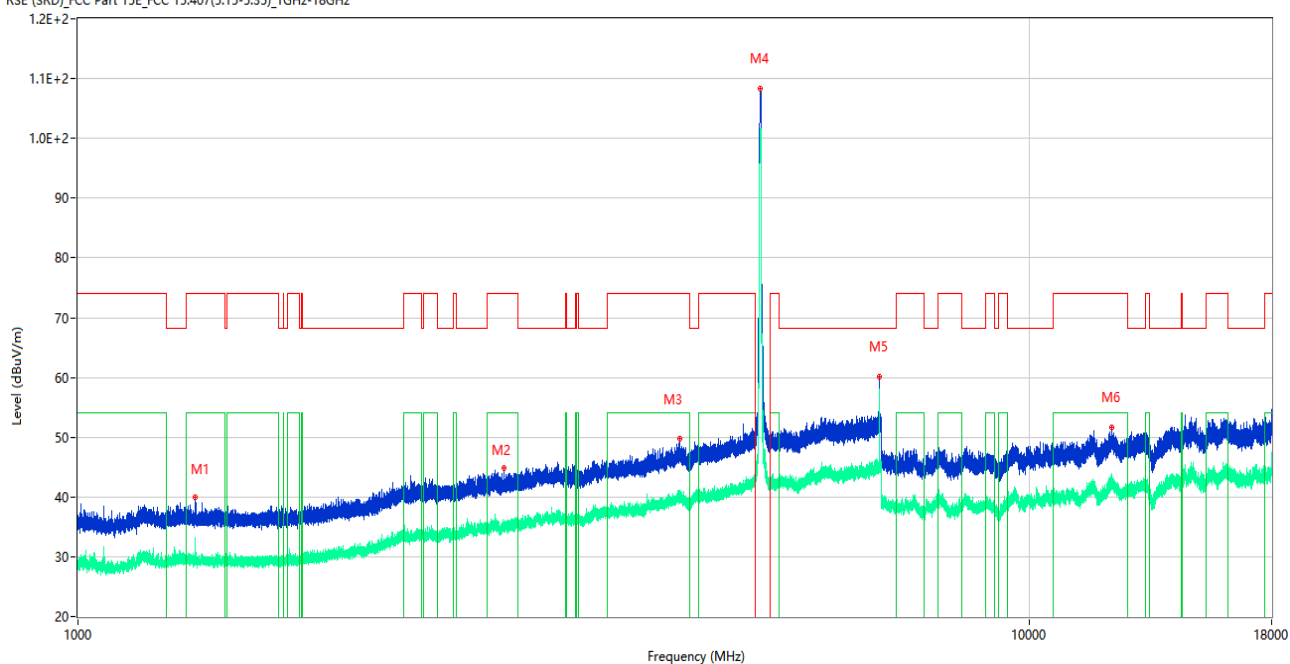
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.100	43.47	-17.57	74.0	30.53	Peak	2.00	300	Vertical	Pass
1**	1331.100	30.46	-17.57	54.0	23.54	AV	2.00	300	Vertical	Pass
2	2731.000	44.77	-10.30	74.0	29.23	Peak	349.00	150	Vertical	Pass
2**	2731.000	34.65	-10.30	54.0	19.35	AV	349.00	150	Vertical	Pass
3	4318.400	48.57	-4.74	74.0	25.43	Peak	115.00	200	Vertical	Pass
3**	4318.400	39.61	-4.74	54.0	14.39	AV	115.00	200	Vertical	Pass
4	5225.400	102.00	-3.38	--	--	Peak	45.00	100	Vertical	N/A
4**	5225.400	94.66	-3.38	--	--	AV	45.00	100	Vertical	N/A
5	6960.200	57.65	-0.50	68.2	10.55	Peak	263.00	150	Vertical	Pass
5**	6960.200	54.36	-0.50	--	--	AV	263.00	150	Vertical	N/A
6	12183.050	51.13	2.59	74.0	22.87	Peak	170.00	400	Vertical	Pass
6**	12183.050	42.97	2.59	54.0	11.03	AV	170.00	400	Vertical	Pass

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

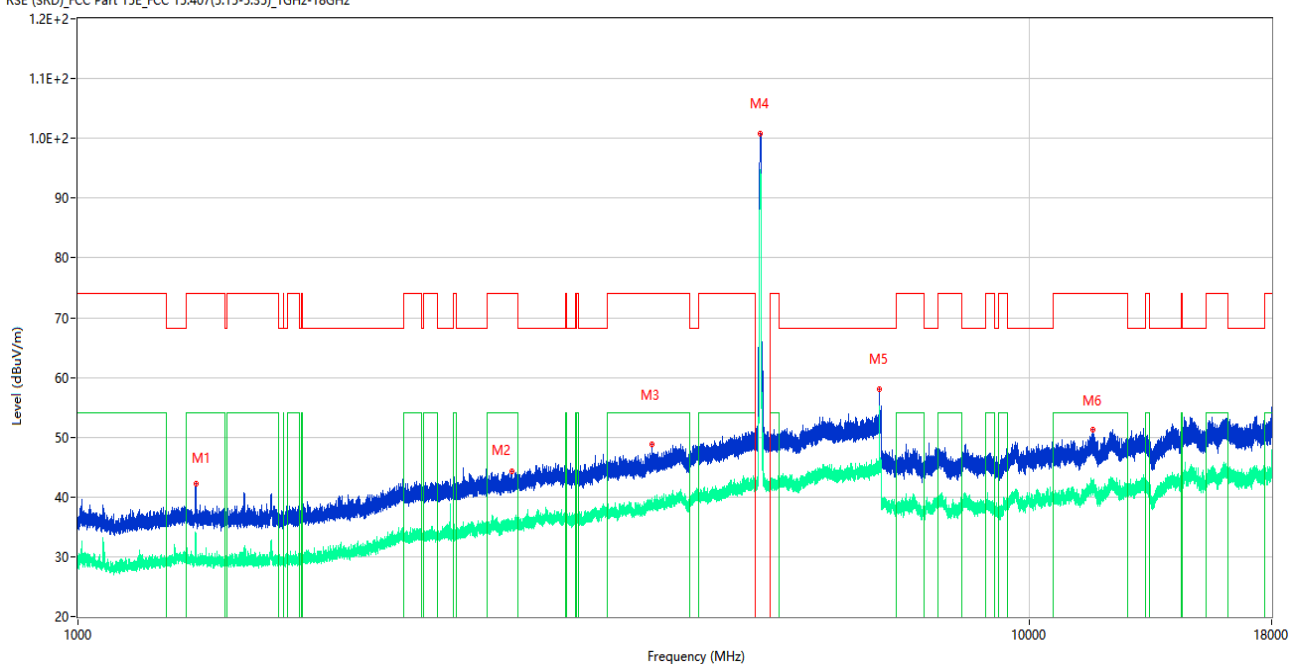
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.300	39.88	-17.45	74.0	34.12	Peak	250.00	100	Horizontal	Pass
1**	1327.300	29.48	-17.45	54.0	24.52	AV	250.00	100	Horizontal	Pass
2	2803.100	44.83	-10.69	74.0	29.17	Peak	1.00	200	Horizontal	Pass
2**	2803.100	34.93	-10.69	54.0	19.07	AV	1.00	200	Horizontal	Pass
3	4292.000	49.83	-4.61	74.0	24.17	Peak	204.00	200	Horizontal	Pass
3**	4292.000	39.83	-4.61	54.0	14.17	AV	204.00	200	Horizontal	Pass
4	5221.200	108.34	-3.32	--	--	Peak	112.00	300	Horizontal	Pass
4**	5221.200	99.94	-3.32	--	--	AV	112.00	300	Horizontal	N/A
5	6960.000	60.15	-0.48	68.2	8.05	Peak	180.00	150	Horizontal	Pass
5**	6960.000	57.38	-0.48	--	--	AV	180.00	150	Horizontal	N/A
6	12217.263	51.68	2.41	74.0	22.32	Peak	185.00	100	Horizontal	Pass
6**	12217.263	42.02	2.41	54.0	11.98	AV	185.00	100	Horizontal	Pass

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

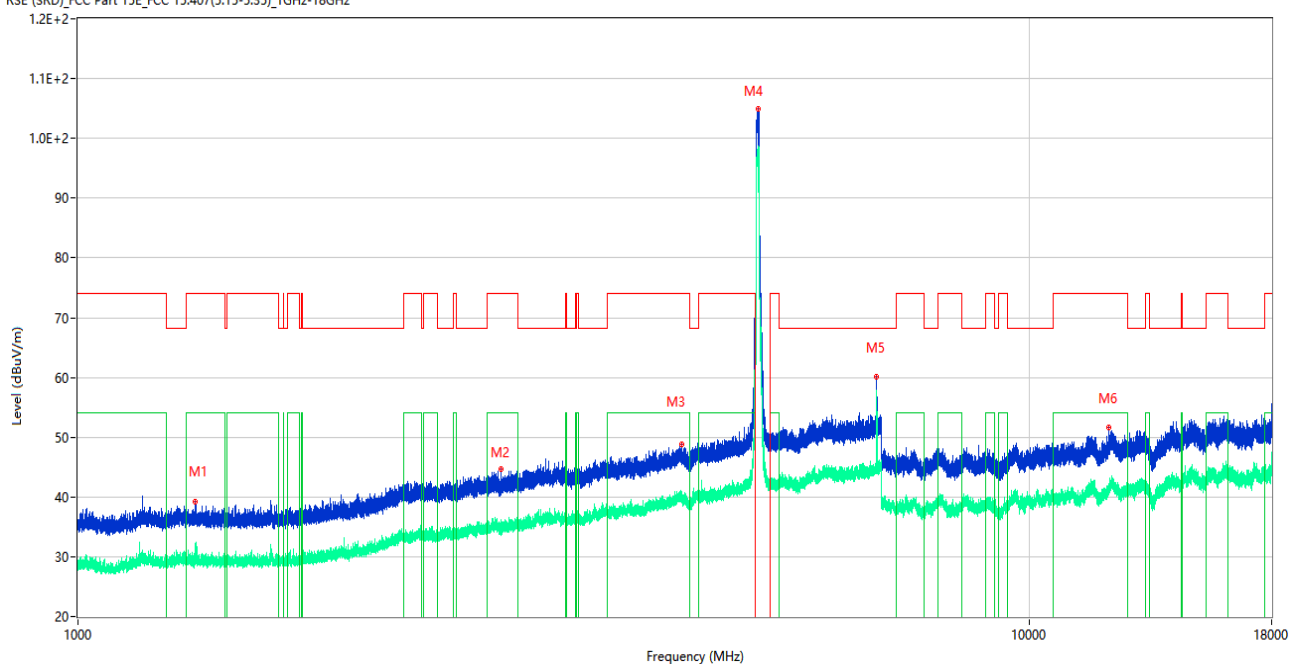
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.700	42.16	-17.56	74.0	31.84	Peak	309.00	100	Vertical	Pass
1**	1330.700	29.56	-17.56	54.0	24.44	AV	309.00	100	Vertical	Pass
2	2858.200	44.29	-10.23	74.0	29.71	Peak	27.00	100	Vertical	Pass
2**	2858.200	35.09	-10.23	54.0	18.91	AV	27.00	100	Vertical	Pass
3	4013.400	48.80	-5.61	74.0	25.20	Peak	136.00	150	Vertical	Pass
3**	4013.400	38.02	-5.61	54.0	15.98	AV	136.00	150	Vertical	Pass
4	5223.000	100.88	-3.33	--	--	Peak	347.00	300	Vertical	Pass
4**	5223.000	94.01	-3.33	--	--	AV	347.00	300	Vertical	N/A
5	6960.000	58.11	-0.48	68.2	10.09	Peak	262.00	100	Vertical	Pass
5**	6960.000	54.86	-0.48	--	--	AV	262.00	100	Vertical	N/A
6	11679.350	51.21	1.89	74.0	22.79	Peak	360.00	300	Vertical	Pass
6**	11679.350	42.21	1.89	54.0	11.79	AV	360.00	300	Vertical	Pass

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

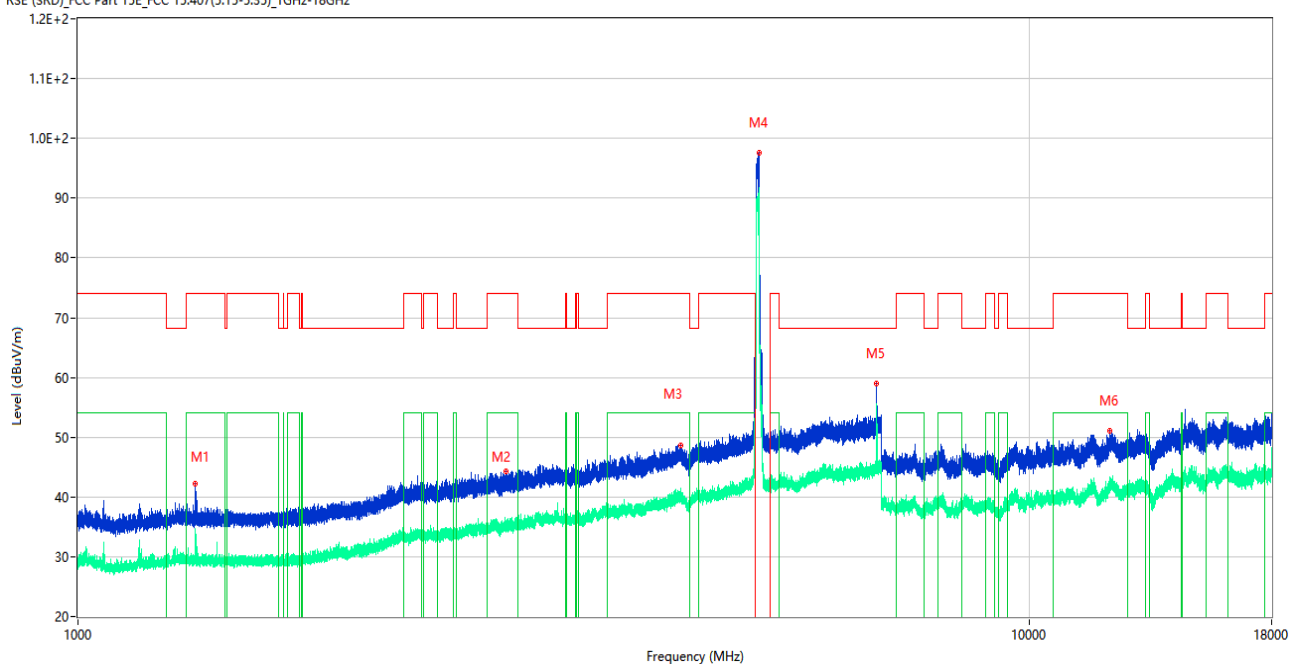
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.700	39.24	-17.44	74.0	34.76	Peak	195.00	100	Horizontal	Pass
1**	1328.700	29.38	-17.44	54.0	24.62	AV	195.00	100	Horizontal	Pass
2	2785.500	44.59	-10.81	74.0	29.41	Peak	348.00	200	Horizontal	Pass
2**	2785.500	34.77	-10.81	54.0	19.23	AV	348.00	200	Horizontal	Pass
3	4312.800	48.73	-4.69	74.0	25.27	Peak	248.00	200	Horizontal	Pass
3**	4312.800	39.37	-4.69	54.0	14.63	AV	248.00	200	Horizontal	Pass
4	5191.800	104.93	-3.13	--	--	Peak	111.00	300	Horizontal	N/A
4**	5191.800	96.86	-3.13	--	--	AV	111.00	300	Horizontal	N/A
5	6920.000	60.07	-0.28	68.2	8.13	Peak	167.00	150	Horizontal	Pass
5**	6920.000	57.03	-0.28	--	--	AV	167.00	150	Horizontal	N/A
6	12133.026	51.56	1.87	74.0	22.44	Peak	129.00	100	Horizontal	Pass
6**	12133.026	40.79	1.87	54.0	13.21	AV	129.00	100	Horizontal	Pass

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

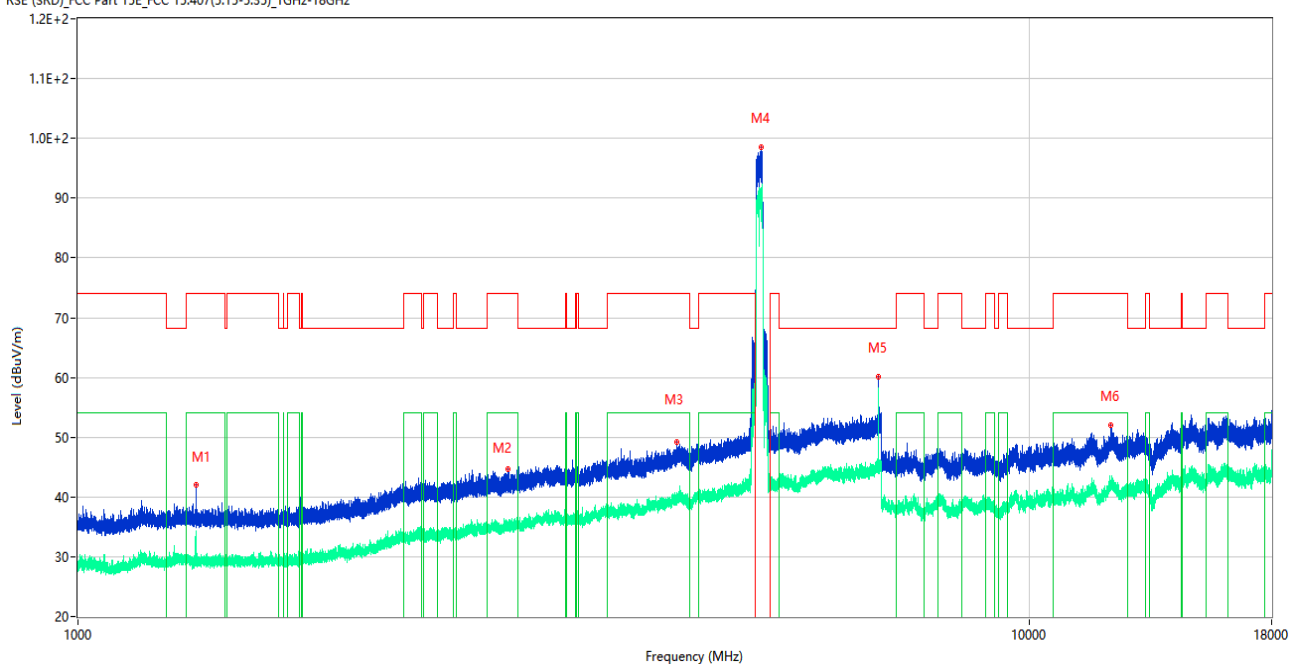
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.600	42.19	-17.43	74.0	31.81	Peak	315.00	400	Vertical	Pass
1**	1328.600	29.88	-17.43	54.0	24.12	AV	315.00	400	Vertical	Pass
2	2819.000	44.32	-10.33	74.0	29.68	Peak	93.00	100	Vertical	Pass
2**	2819.000	35.30	-10.33	54.0	18.70	AV	93.00	100	Vertical	Pass
3	4308.400	48.66	-4.60	74.0	25.34	Peak	272.00	200	Vertical	Pass
3**	4308.400	39.77	-4.60	54.0	14.23	AV	272.00	200	Vertical	Pass
4	5204.000	97.62	-3.25	--	--	Peak	27.00	200	Vertical	N/A
4**	5204.000	90.20	-3.25	--	--	AV	27.00	200	Vertical	N/A
5	6919.800	58.98	-0.28	68.2	9.22	Peak	18.00	200	Vertical	Pass
5**	6919.800	54.09	-0.28	--	--	AV	18.00	200	Vertical	N/A
6	12166.662	51.14	2.47	74.0	22.86	Peak	0.00	300	Vertical	Pass
6**	12166.662	42.00	2.47	54.0	12.00	AV	0.00	300	Vertical	Pass

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

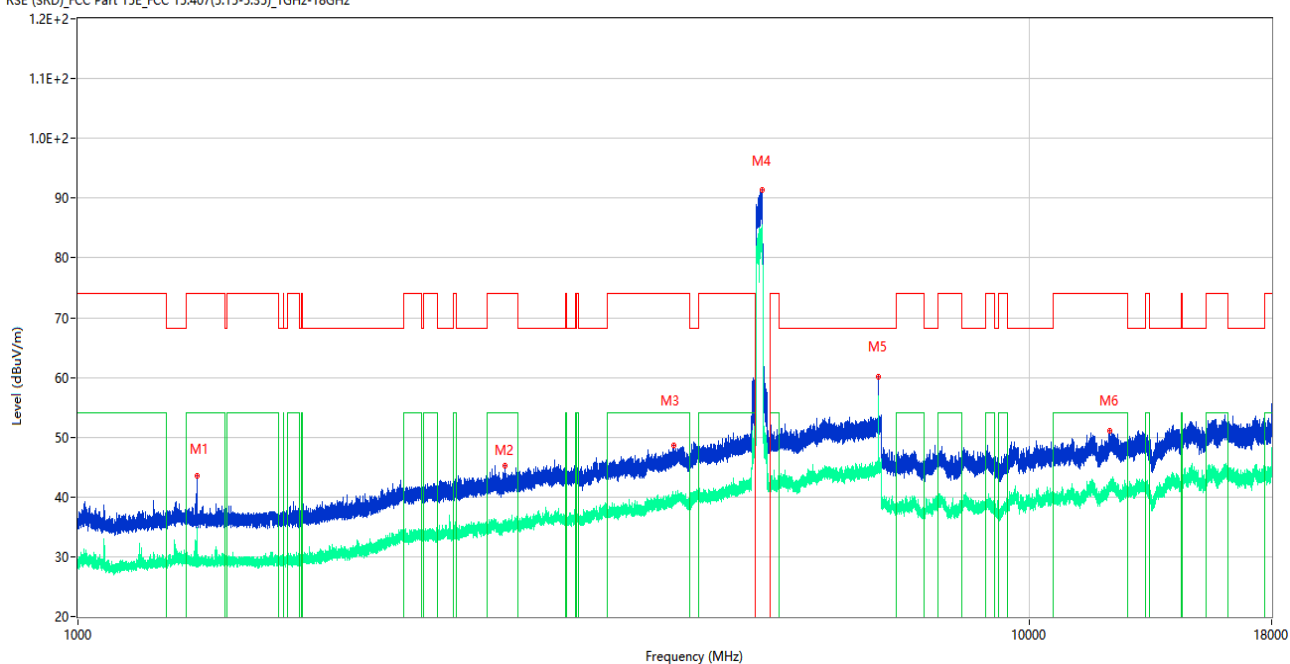
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.000	41.96	-17.57	74.0	32.04	Peak	196.00	300	Horizontal	Pass
1**	1331.000	29.93	-17.57	54.0	24.07	AV	196.00	300	Horizontal	Pass
2	2831.500	44.61	-10.36	74.0	29.39	Peak	174.00	400	Horizontal	Pass
2**	2831.500	34.61	-10.36	54.0	19.39	AV	174.00	400	Horizontal	Pass
3	4264.800	49.28	-4.53	74.0	24.72	Peak	148.00	150	Horizontal	Pass
3**	4264.800	39.56	-4.53	54.0	14.44	AV	148.00	150	Horizontal	Pass
4	5225.800	98.45	-3.39	--	--	Peak	80.00	400	Horizontal	N/A
4**	5225.800	91.00	-3.39	--	--	AV	80.00	400	Horizontal	N/A
5	6946.600	60.10	-0.58	68.2	8.10	Peak	181.00	150	Horizontal	Pass
5**	6946.600	58.25	-0.58	--	--	AV	181.00	150	Horizontal	N/A
6	12203.750	52.01	2.39	74.0	21.99	Peak	1.00	200	Horizontal	Pass
6**	12203.750	41.94	2.39	54.0	12.06	AV	1.00	200	Horizontal	Pass

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

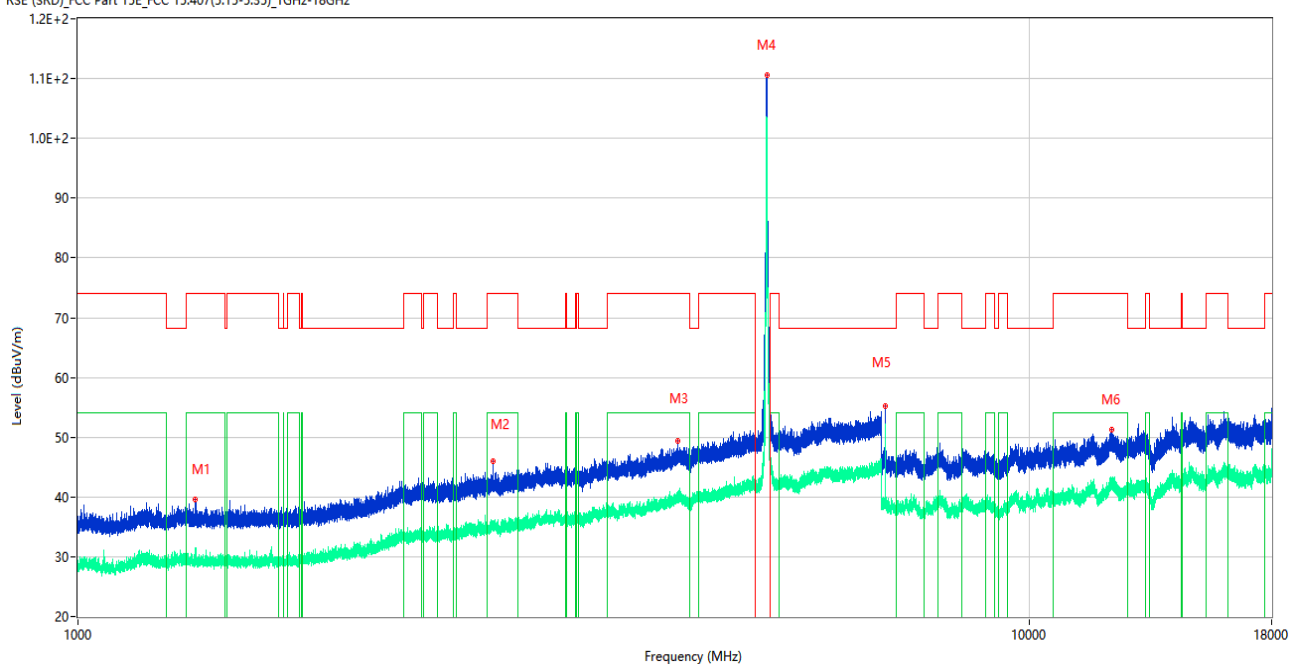
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.900	43.48	-17.63	74.0	30.52	Peak	116.00	300	Vertical	Pass
1**	1332.900	29.02	-17.63	54.0	24.98	AV	116.00	300	Vertical	Pass
2	2810.700	45.24	-10.64	74.0	28.76	Peak	135.00	300	Vertical	Pass
2**	2810.700	35.40	-10.64	54.0	18.60	AV	135.00	300	Vertical	Pass
3	4228.000	48.58	-4.52	74.0	25.42	Peak	66.00	150	Vertical	Pass
3**	4228.000	38.96	-4.52	54.0	15.04	AV	66.00	150	Vertical	Pass
4	5240.800	91.34	-3.51	--	--	Peak	45.00	100	Vertical	N/A
4**	5240.800	84.08	-3.51	--	--	AV	45.00	100	Vertical	N/A
5	6946.800	60.12	-0.58	68.2	8.08	Peak	272.00	100	Vertical	Pass
5**	6946.800	56.95	-0.58	--	--	AV	272.00	100	Vertical	N/A
6	12160.338	51.08	2.29	74.0	22.92	Peak	248.00	200	Vertical	Pass
6**	12160.338	41.34	2.29	54.0	12.66	AV	248.00	200	Vertical	Pass

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

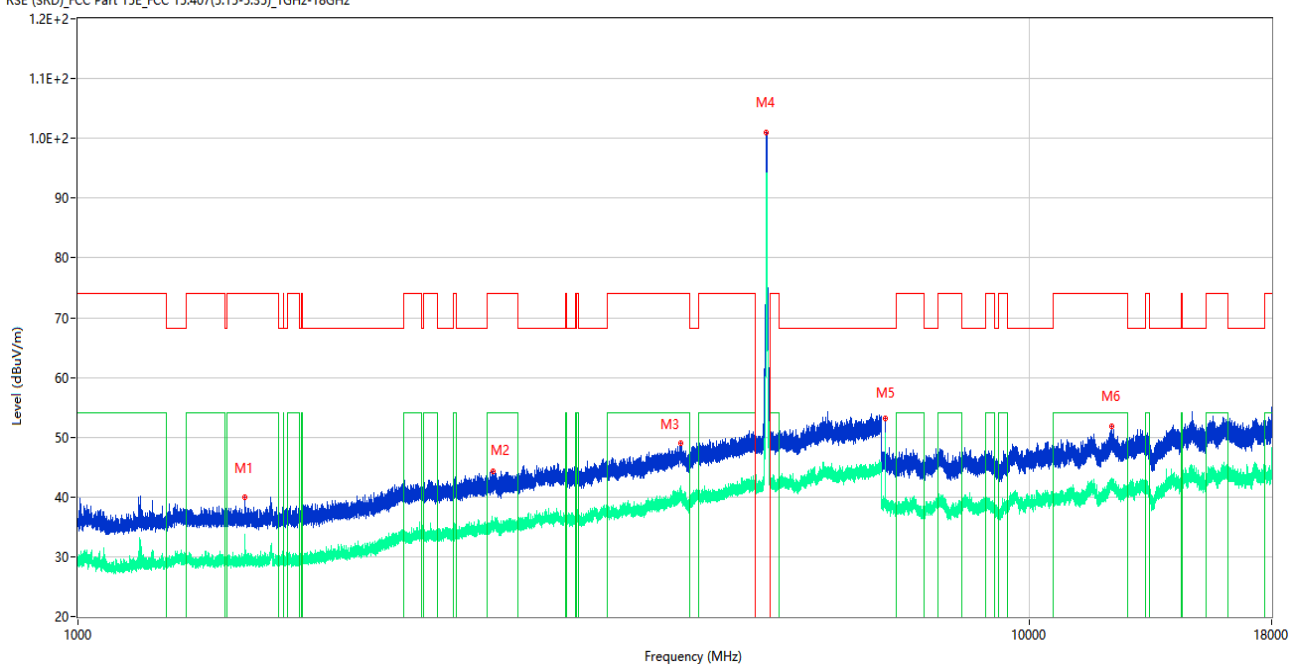
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.100	39.61	-17.41	74.0	34.39	Peak	215.00	400	Horizontal	Pass
1**	1328.100	28.94	-17.41	54.0	25.06	AV	215.00	400	Horizontal	Pass
2	2730.000	45.95	-10.30	74.0	28.05	Peak	206.00	300	Horizontal	Pass
2**	2730.000	35.23	-10.30	54.0	18.77	AV	206.00	300	Horizontal	Pass
3	4274.000	49.34	-4.58	74.0	24.66	Peak	4.00	100	Horizontal	Pass
3**	4274.000	39.61	-4.58	54.0	14.39	AV	4.00	100	Horizontal	Pass
4	5305.400	110.59	-3.08	--	--	Peak	100.00	200	Horizontal	N/A
4**	5305.400	102.49	-3.08	--	--	AV	100.00	200	Horizontal	N/A
5	7066.700	55.23	-2.63	68.2	12.97	Peak	162.00	100	Horizontal	Pass
5**	7066.700	51.25	-2.63	--	--	AV	162.00	100	Horizontal	N/A
6	12230.487	51.22	2.42	74.0	22.78	Peak	300.00	200	Horizontal	Pass
6**	12230.487	42.44	2.42	54.0	11.56	AV	300.00	200	Horizontal	Pass

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

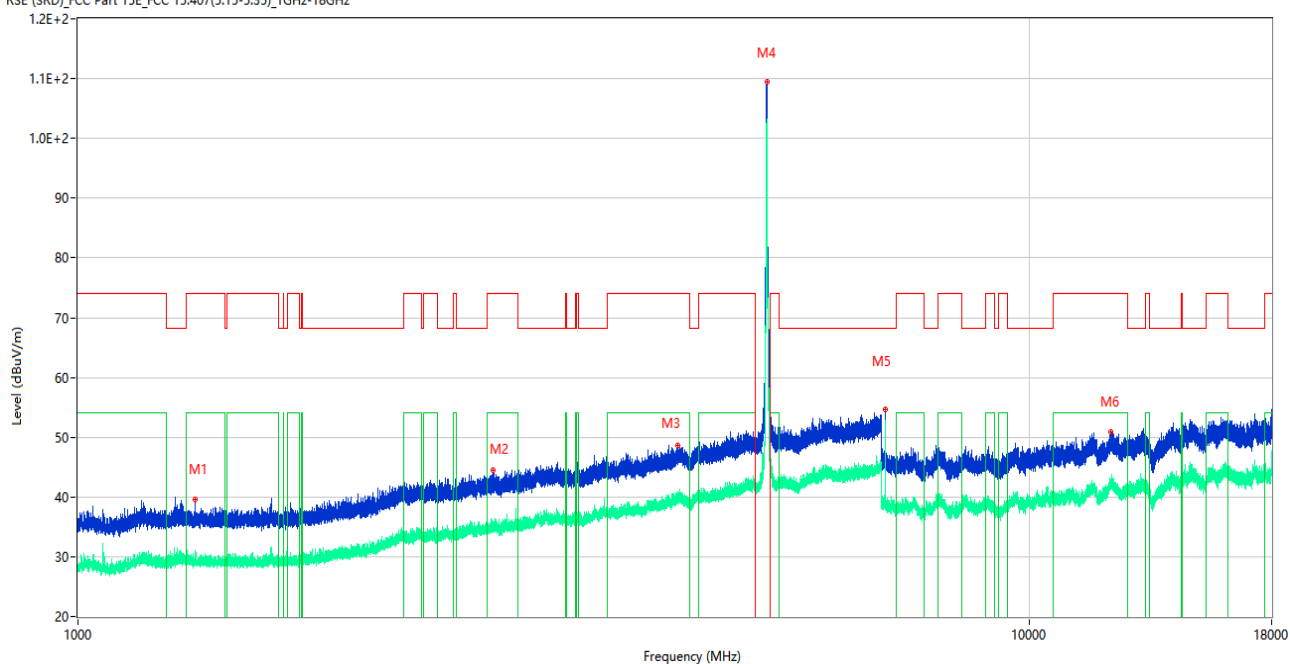
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1499.300	40.04	-17.48	74.0	33.96	Peak	357.00	150	Vertical	Pass
1**	1499.300	29.95	-17.48	54.0	24.05	AV	357.00	150	Vertical	Pass
2	2730.100	44.35	-10.30	74.0	29.65	Peak	349.00	100	Vertical	Pass
2**	2730.100	34.58	-10.30	54.0	19.42	AV	349.00	100	Vertical	Pass
3	4307.800	48.93	-4.56	74.0	25.07	Peak	189.00	150	Vertical	Pass
3**	4307.800	40.62	-4.56	54.0	13.38	AV	189.00	150	Vertical	Pass
4	5298.800	100.99	-3.18	--	--	Peak	339.00	300	Vertical	N/A
4**	5298.800	93.19	-3.18	--	--	AV	339.00	300	Vertical	N/A
5	7066.413	53.07	-2.65	68.2	15.13	Peak	267.00	150	Vertical	Pass
5**	7066.413	48.32	-2.65	--	--	AV	267.00	150	Vertical	N/A
6	12236.237	51.84	2.44	74.0	22.16	Peak	284.00	200	Vertical	Pass
6**	12236.237	41.90	2.44	54.0	12.10	AV	284.00	200	Vertical	Pass

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

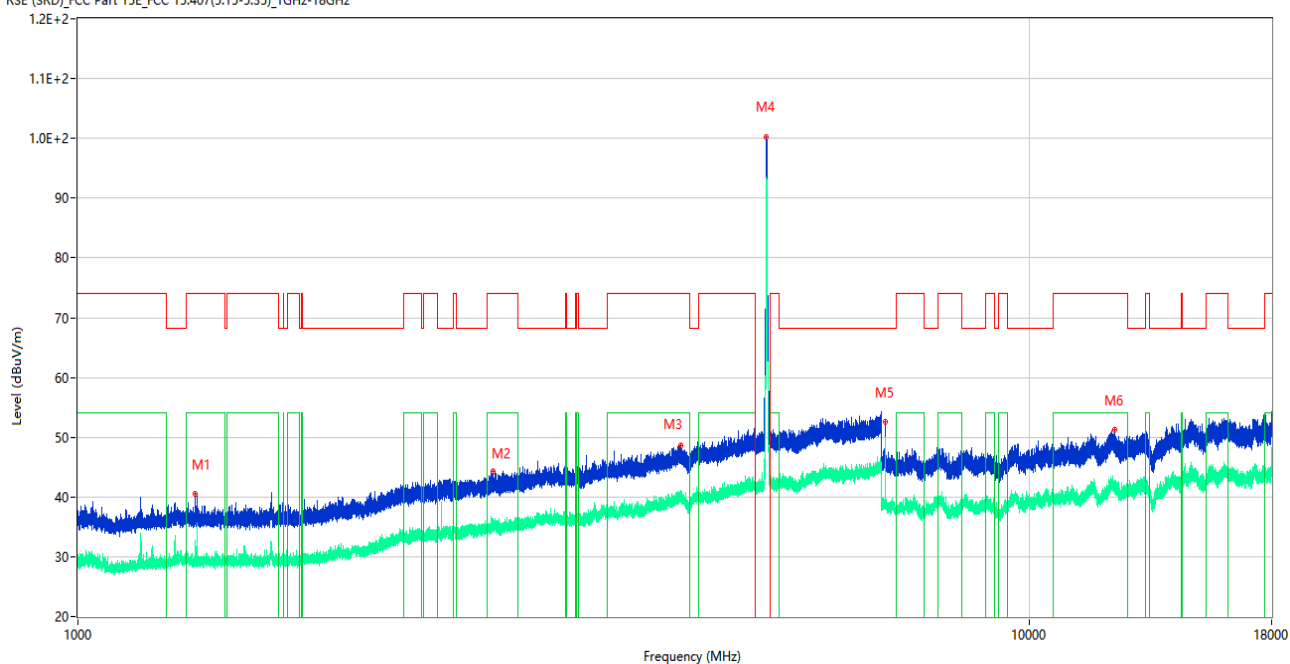
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1326.800	39.59	-17.47	74.0	34.41	Peak	225.00	200	Horizontal	Pass
1**	1326.800	28.98	-17.47	54.0	25.02	AV	225.00	200	Horizontal	Pass
2	2729.700	44.57	-10.32	74.0	29.43	Peak	234.00	300	Horizontal	Pass
2**	2729.700	34.80	-10.32	54.0	19.20	AV	234.00	300	Horizontal	Pass
3	4270.800	48.72	-4.60	74.0	25.28	Peak	316.00	100	Horizontal	Pass
3**	4270.800	40.15	-4.60	54.0	13.85	AV	316.00	100	Horizontal	Pass
4	5304.600	109.38	-3.07	--	--	Peak	86.00	200	Horizontal	N/A
4**	5304.600	102.48	-3.07	--	--	AV	86.00	200	Horizontal	N/A
5	7067.275	54.59	-2.58	68.2	13.61	Peak	176.00	150	Horizontal	Pass
5**	7067.275	51.64	-2.58	--	--	AV	176.00	150	Horizontal	N/A
6	12205.763	50.94	2.38	74.0	23.06	Peak	354.00	400	Horizontal	Pass
6**	12205.763	41.93	2.38	54.0	12.07	AV	354.00	400	Horizontal	Pass

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

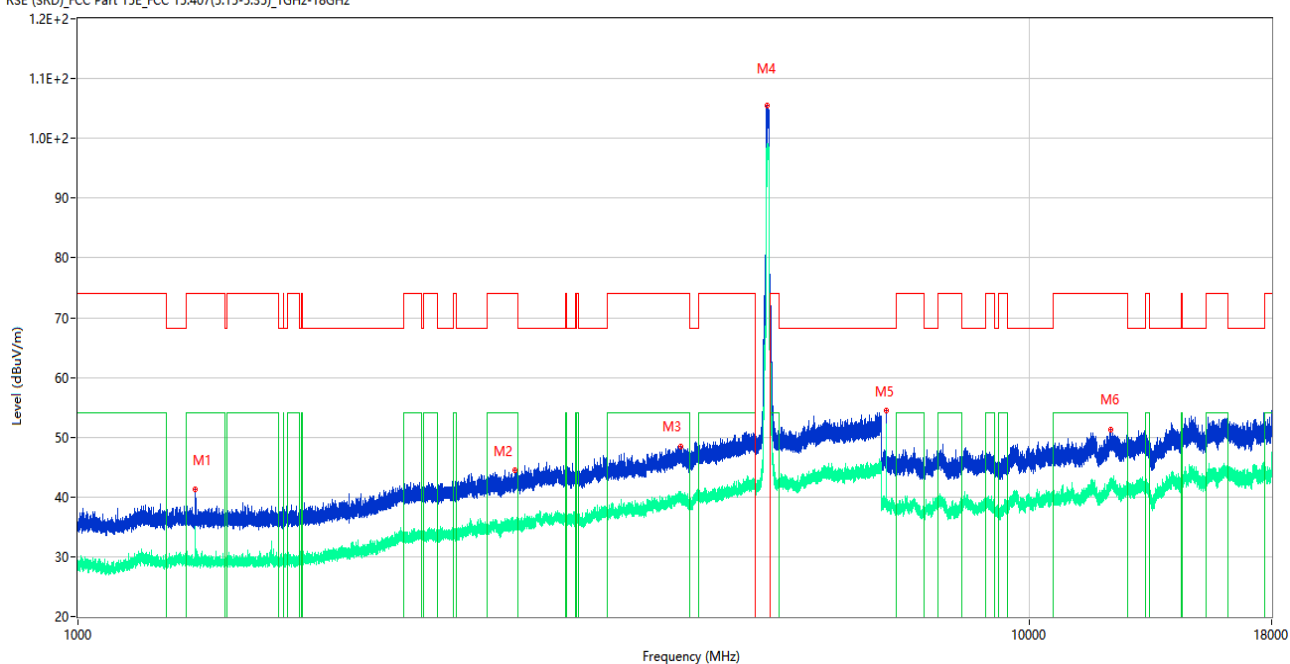
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.100	40.56	-17.46	74.0	33.44	Peak	284.00	400	Vertical	Pass
1**	1329.100	30.13	-17.46	54.0	23.87	AV	284.00	400	Vertical	Pass
2	2734.300	44.35	-10.43	74.0	29.65	Peak	101.00	400	Vertical	Pass
2**	2734.300	34.90	-10.43	54.0	19.10	AV	101.00	400	Vertical	Pass
3	4309.000	48.69	-4.64	74.0	25.31	Peak	351.00	200	Vertical	Pass
3**	4309.000	39.41	-4.64	54.0	14.59	AV	351.00	200	Vertical	Pass
4	5296.600	100.29	-3.22	--	--	Peak	31.00	100	Vertical	N/A
4**	5296.600	93.43	-3.22	--	--	AV	31.00	100	Vertical	N/A
5	7066.413	52.54	-2.65	68.2	15.66	Peak	24.00	150	Vertical	Pass
5**	7066.413	47.13	-2.65	--	--	AV	24.00	150	Vertical	N/A
6	12318.750	51.25	2.01	74.0	22.75	Peak	164.00	200	Vertical	Pass
6**	12318.750	41.75	2.01	54.0	12.25	AV	164.00	200	Vertical	Pass

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

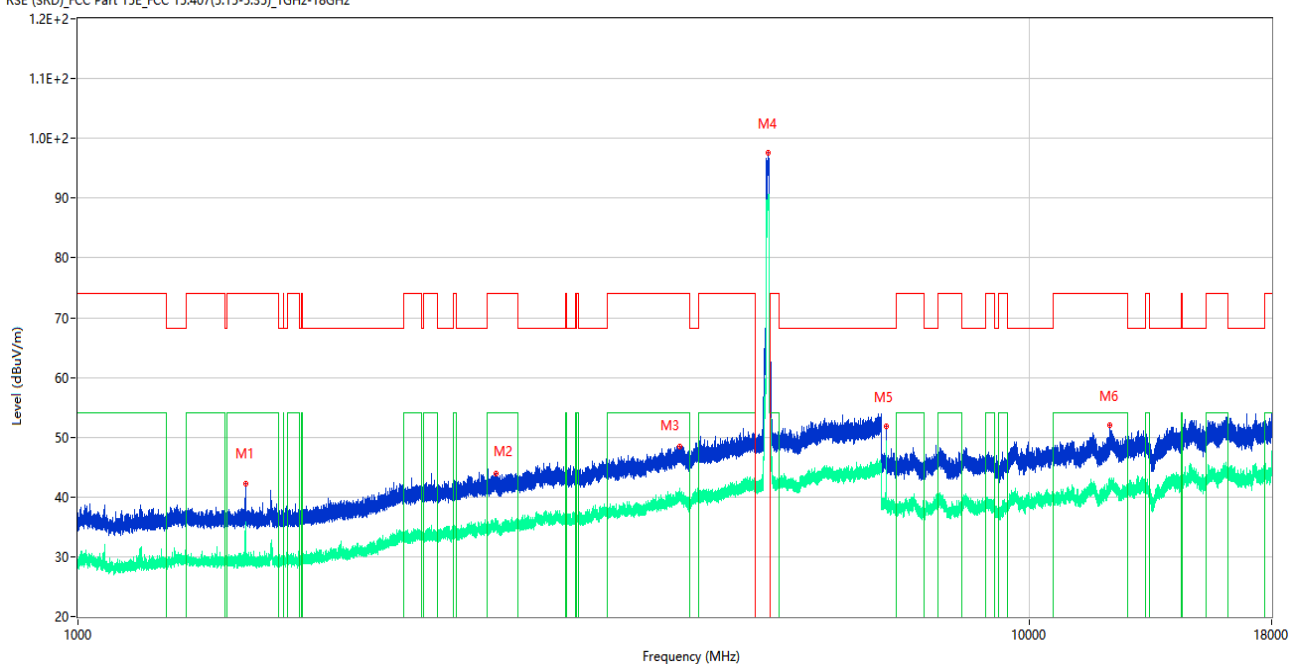
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.500	41.29	-17.42	74.0	32.71	Peak	169.00	400	Horizontal	Pass
1**	1328.500	29.08	-17.42	54.0	24.92	AV	169.00	400	Horizontal	Pass
2	2877.800	44.50	-10.28	74.0	29.50	Peak	0.00	100	Horizontal	Pass
2**	2877.800	35.32	-10.28	54.0	18.68	AV	0.00	100	Horizontal	Pass
3	4303.000	48.51	-4.65	74.0	25.49	Peak	360.00	150	Horizontal	Pass
3**	4303.000	39.63	-4.65	54.0	14.37	AV	360.00	150	Horizontal	Pass
4	5304.200	105.59	-3.06	--	--	Peak	99.00	200	Horizontal	N/A
4**	5304.200	97.67	-3.06	--	--	AV	99.00	200	Horizontal	N/A
5	7079.925	54.47	-2.48	68.2	13.73	Peak	176.00	150	Horizontal	Pass
5**	7079.925	50.27	-2.48	--	--	AV	176.00	150	Horizontal	N/A
6	12178.162	51.32	2.61	74.0	22.68	Peak	223.00	300	Horizontal	Pass
6**	12178.162	42.62	2.61	54.0	11.38	AV	223.00	300	Horizontal	Pass

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

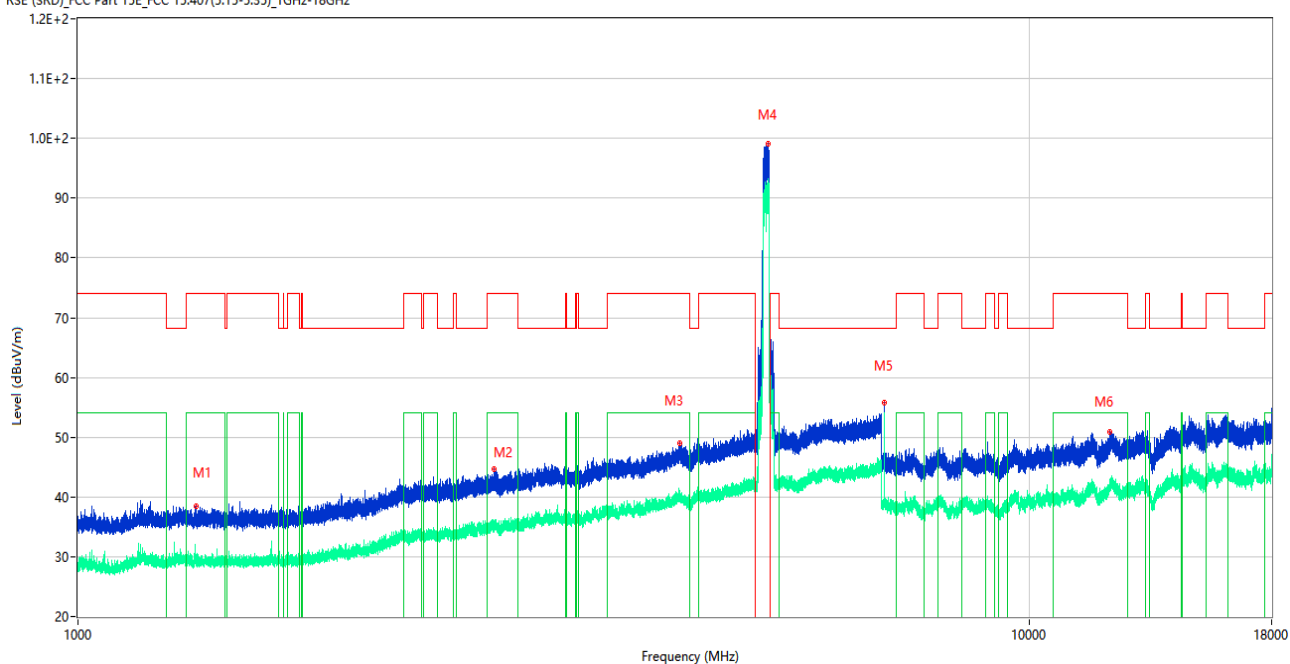
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.600	42.23	-17.44	74.0	31.77	Peak	300.00	150	Vertical	Pass
1**	1500.600	28.59	-17.44	54.0	25.41	AV	300.00	150	Vertical	Pass
2	2751.700	43.87	-10.38	74.0	30.13	Peak	195.00	100	Vertical	Pass
2**	2751.700	35.76	-10.38	54.0	18.24	AV	195.00	100	Vertical	Pass
3	4298.600	48.40	-4.50	74.0	25.60	Peak	283.00	150	Vertical	Pass
3**	4298.600	40.40	-4.50	54.0	13.60	AV	283.00	150	Vertical	Pass
4	5324.000	97.56	-3.22	--	--	Peak	339.00	400	Vertical	N/A
4**	5324.000	89.01	-3.22	--	--	AV	339.00	400	Vertical	N/A
5	7079.925	51.78	-2.48	68.2	16.42	Peak	270.00	150	Vertical	Pass
5**	7079.925	47.48	-2.48	--	--	AV	270.00	150	Vertical	N/A
6	12167.812	51.92	2.50	74.0	22.08	Peak	207.00	300	Vertical	Pass
6**	12167.812	41.76	2.50	54.0	12.24	AV	207.00	300	Vertical	Pass

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

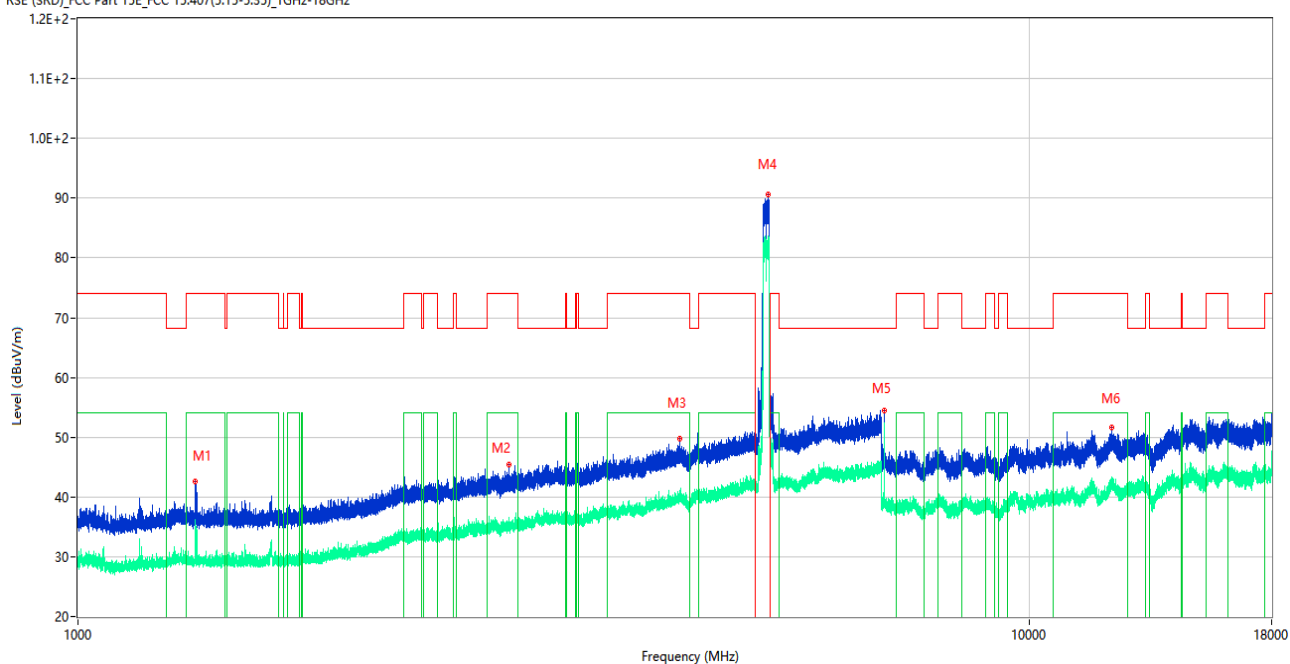
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.100	38.50	-17.57	74.0	35.50	Peak	344.00	300	Horizontal	Pass
1**	1331.100	30.01	-17.57	54.0	23.99	AV	344.00	300	Horizontal	Pass
2	2742.000	44.59	-10.34	74.0	29.41	Peak	194.00	300	Horizontal	Pass
2**	2742.000	35.71	-10.34	54.0	18.29	AV	194.00	300	Horizontal	Pass
3	4297.000	49.00	-4.53	74.0	25.00	Peak	238.00	100	Horizontal	Pass
3**	4297.000	40.38	-4.53	54.0	13.62	AV	238.00	100	Horizontal	Pass
4	5315.000	99.08	-3.09	--	--	Peak	100.00	300	Horizontal	N/A
4**	5315.000	91.85	-3.09	--	--	AV	100.00	300	Horizontal	N/A
5	7053.475	55.73	-2.53	68.2	12.47	Peak	176.00	150	Horizontal	Pass
5**	7053.475	54.13	-2.53	--	--	AV	176.00	150	Horizontal	N/A
6	12175.575	50.92	2.62	74.0	23.08	Peak	359.00	100	Horizontal	Pass
6**	12175.575	42.04	2.62	54.0	11.96	AV	359.00	100	Horizontal	Pass

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

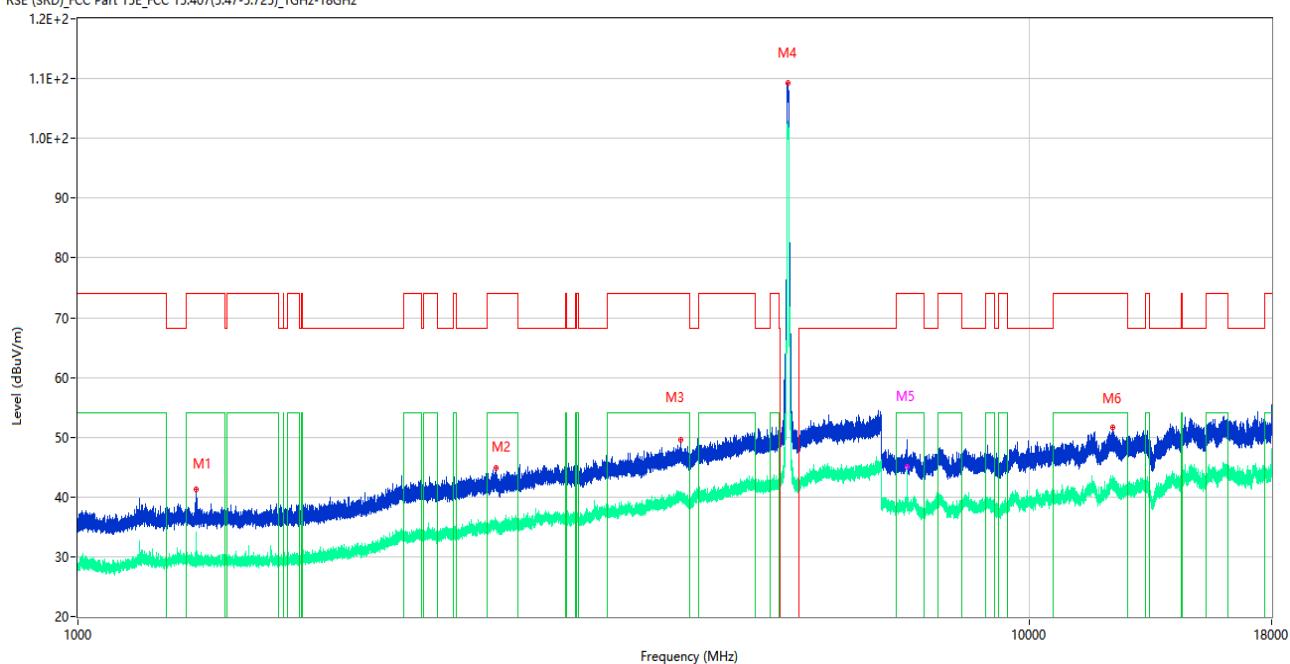
RSE (SRD)_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.500	42.62	-17.42	74.0	31.38	Peak	331.00	100	Vertical	Pass
1**	1328.500	35.44	-17.42	54.0	18.56	AV	331.00	100	Vertical	Pass
2	2836.900	45.40	-10.27	74.0	28.60	Peak	100.00	100	Vertical	Pass
2**	2836.900	35.04	-10.27	54.0	18.96	AV	100.00	100	Vertical	Pass
3	4298.200	49.83	-4.51	74.0	24.17	Peak	40.00	100	Vertical	Pass
3**	4298.200	40.31	-4.51	54.0	13.69	AV	40.00	100	Vertical	Pass
4	5323.000	90.66	-3.21	--	--	Peak	29.00	300	Vertical	N/A
4**	5323.000	83.09	-3.21	--	--	AV	29.00	300	Vertical	N/A
5	7053.475	54.53	-2.53	68.2	13.67	Peak	267.00	150	Vertical	Pass
5**	7053.475	52.46	-2.53	--	--	AV	267.00	150	Vertical	N/A
6	12220.713	51.57	2.42	74.0	22.43	Peak	253.00	100	Vertical	Pass
6**	12220.713	41.77	2.42	54.0	12.23	AV	253.00	100	Vertical	Pass

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

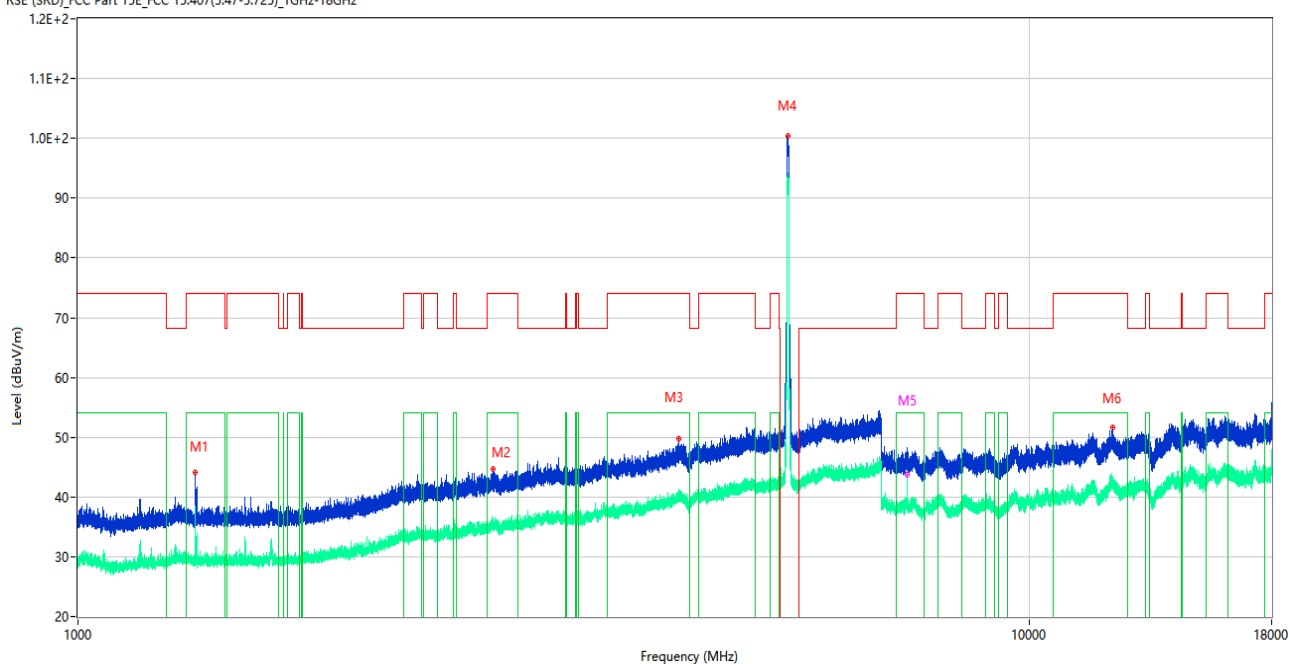
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.100	41.22	-17.57	74.0	32.78	Peak	217.00	100	Horizontal	Pass
1**	1331.100	29.71	-17.57	54.0	24.29	AV	217.00	100	Horizontal	Pass
2	2753.100	44.95	-10.47	74.0	29.05	Peak	283.00	400	Horizontal	Pass
2**	2753.100	34.66	-10.47	54.0	19.34	AV	283.00	400	Horizontal	Pass
3	4307.800	49.57	-4.56	74.0	24.43	Peak	174.00	150	Horizontal	Pass
3**	4307.800	39.78	-4.56	54.0	14.22	AV	174.00	150	Horizontal	Pass
4	5586.200	109.28	-3.22	--	--	Peak	111.00	100	Horizontal	N/A
4**	5586.200	101.93	-3.22	--	--	AV	111.00	100	Horizontal	N/A
5	7440.450	47.87	-2.60	74.0	26.13	Peak	166.00	150	Horizontal	Pass
5**	7440.450	45.14	-2.60	54.0	8.86	AV	166.00	150	Horizontal	Pass
6	12258.375	51.55	2.44	74.0	22.45	Peak	124.00	400	Horizontal	Pass
6**	12258.375	41.86	2.44	54.0	12.14	AV	124.00	400	Horizontal	Pass

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

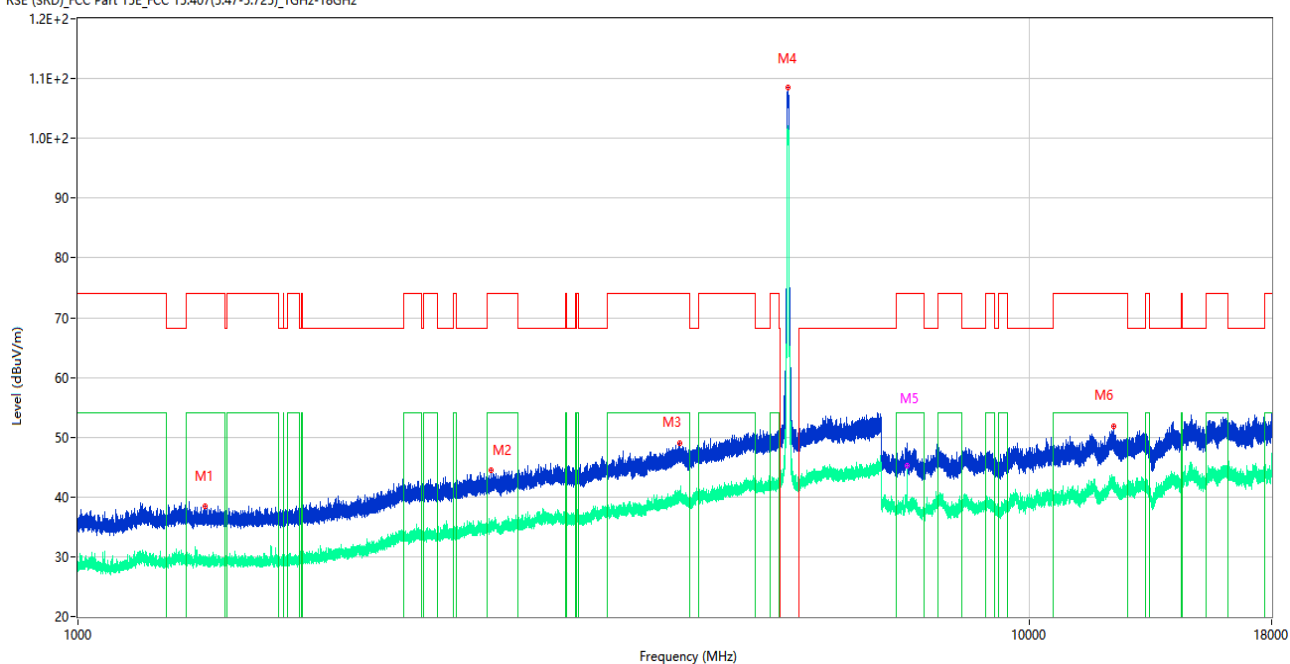
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.600	44.10	-17.43	74.0	29.90	Peak	310.00	400	Vertical	Pass
1**	1328.600	30.11	-17.43	54.0	23.89	AV	310.00	400	Vertical	Pass
2	2729.900	44.75	-10.31	74.0	29.25	Peak	189.00	400	Vertical	Pass
2**	2729.900	34.76	-10.31	54.0	19.24	AV	189.00	400	Vertical	Pass
3	4280.000	49.80	-4.54	74.0	24.20	Peak	2.00	150	Vertical	Pass
3**	4280.000	39.90	-4.54	54.0	14.10	AV	2.00	150	Vertical	Pass
4	5587.200	100.48	-3.20	--	--	Peak	161.00	300	Vertical	N/A
4**	5587.200	92.47	-3.20	--	--	AV	161.00	300	Vertical	N/A
5	7440.163	47.32	-2.58	74.0	26.68	Peak	37.00	100	Vertical	Pass
5**	7440.163	43.76	-2.58	54.0	10.24	AV	37.00	100	Vertical	Pass
6	12262.400	51.59	2.39	74.0	22.41	Peak	220.00	400	Vertical	Pass
6**	12262.400	42.81	2.39	54.0	11.19	AV	220.00	400	Vertical	Pass

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

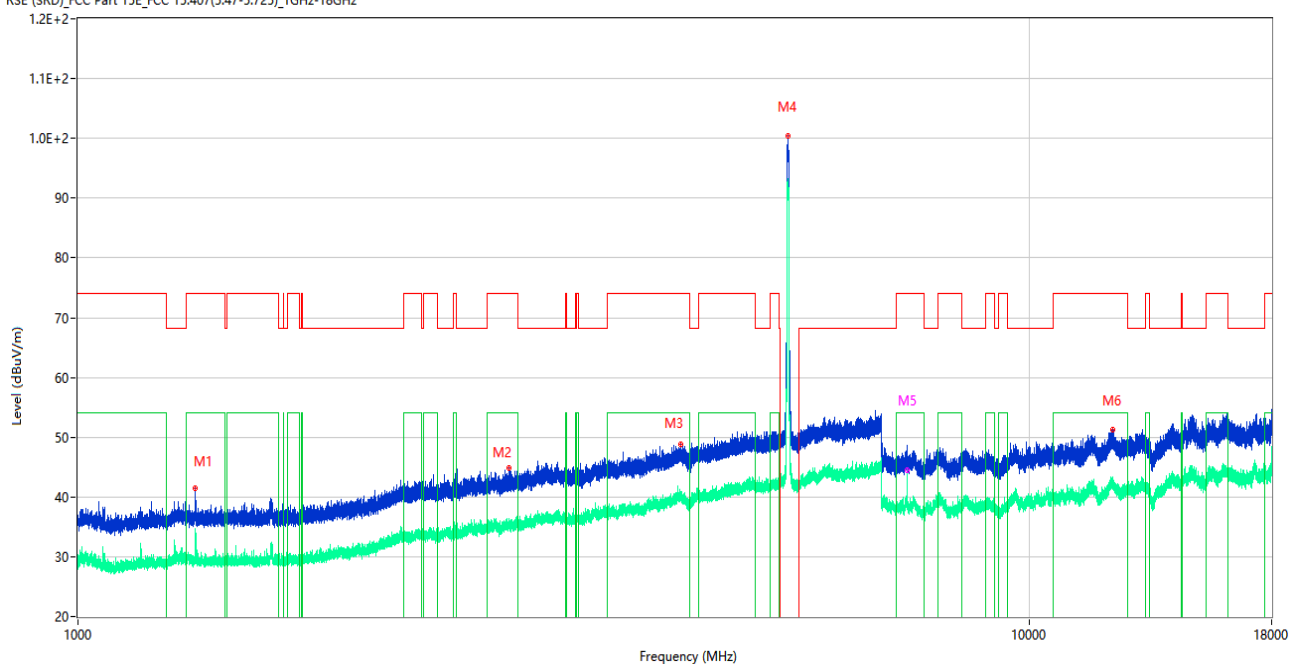
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1360.100	38.51	-17.25	74.0	35.49	Peak	253.00	200	Horizontal	Pass
1**	1360.100	29.78	-17.25	54.0	24.22	AV	253.00	200	Horizontal	Pass
2	2720.800	44.48	-10.58	74.0	29.52	Peak	18.00	300	Horizontal	Pass
2**	2720.800	35.15	-10.58	54.0	18.85	AV	18.00	300	Horizontal	Pass
3	4297.200	48.95	-4.53	74.0	25.05	Peak	360.00	200	Horizontal	Pass
3**	4297.200	40.04	-4.53	54.0	13.96	AV	360.00	200	Horizontal	Pass
4	5581.800	108.49	-3.22	--	--	Peak	104.00	200	Horizontal	N/A
4**	5581.800	100.75	-3.22	--	--	AV	104.00	200	Horizontal	N/A
5	7440.163	48.92	-2.58	74.0	25.08	Peak	155.00	150	Horizontal	Pass
5**	7440.163	45.17	-2.58	54.0	8.83	AV	155.00	150	Horizontal	Pass
6	12278.213	51.76	2.22	74.0	22.24	Peak	209.00	200	Horizontal	Pass
6**	12278.213	41.56	2.22	54.0	12.44	AV	209.00	200	Horizontal	Pass

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

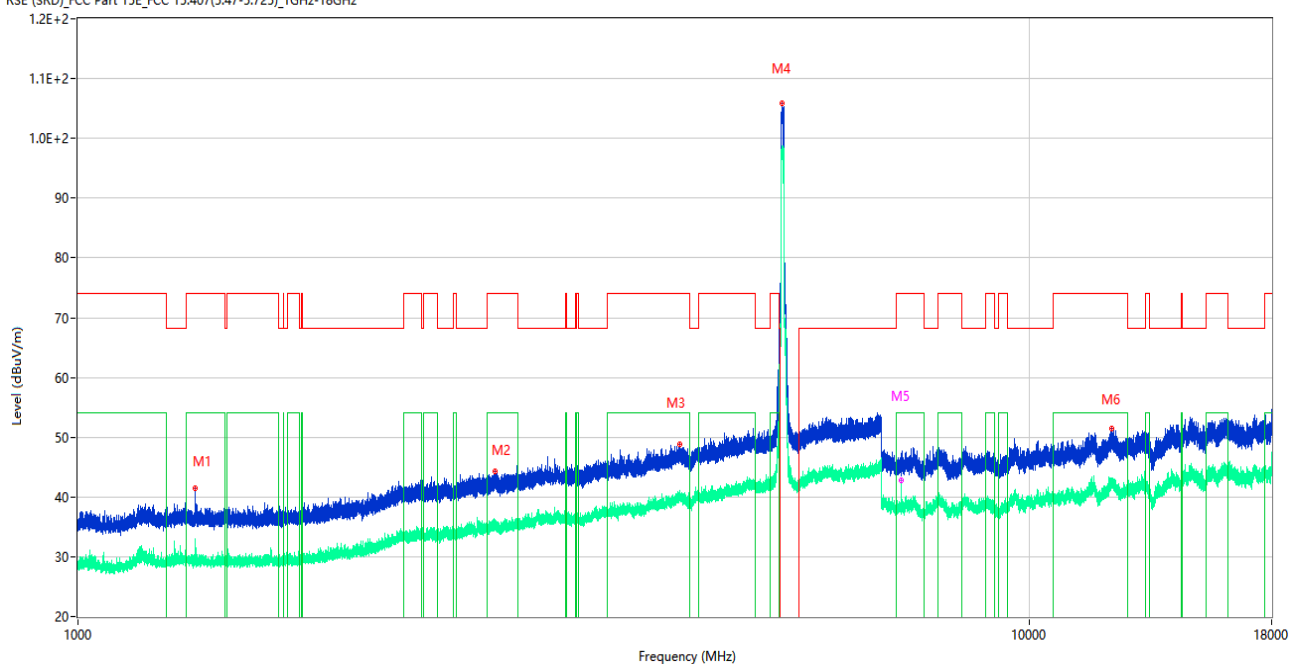
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.100	41.47	-17.46	74.0	32.53	Peak	326.00	100	Vertical	Pass
1**	1327.100	29.09	-17.46	54.0	24.91	AV	326.00	100	Vertical	Pass
2	2837.600	44.91	-10.33	74.0	29.09	Peak	326.00	300	Vertical	Pass
2**	2837.600	35.48	-10.33	54.0	18.52	AV	326.00	300	Vertical	Pass
3	4307.000	48.76	-4.54	74.0	25.24	Peak	274.00	150	Vertical	Pass
3**	4307.000	40.41	-4.54	54.0	13.59	AV	274.00	150	Vertical	Pass
4	5584.000	100.36	-3.19	--	--	Peak	26.00	300	Vertical	N/A
4**	5584.000	91.75	-3.19	--	--	AV	26.00	300	Vertical	N/A
5	7440.163	48.27	-2.58	74.0	25.73	Peak	263.00	150	Vertical	Pass
5**	7440.163	44.41	-2.58	54.0	9.59	AV	263.00	150	Vertical	Pass
6	12240.263	51.22	2.46	74.0	22.78	Peak	177.00	200	Vertical	Pass
6**	12240.263	43.33	2.46	54.0	10.67	AV	177.00	200	Vertical	Pass

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

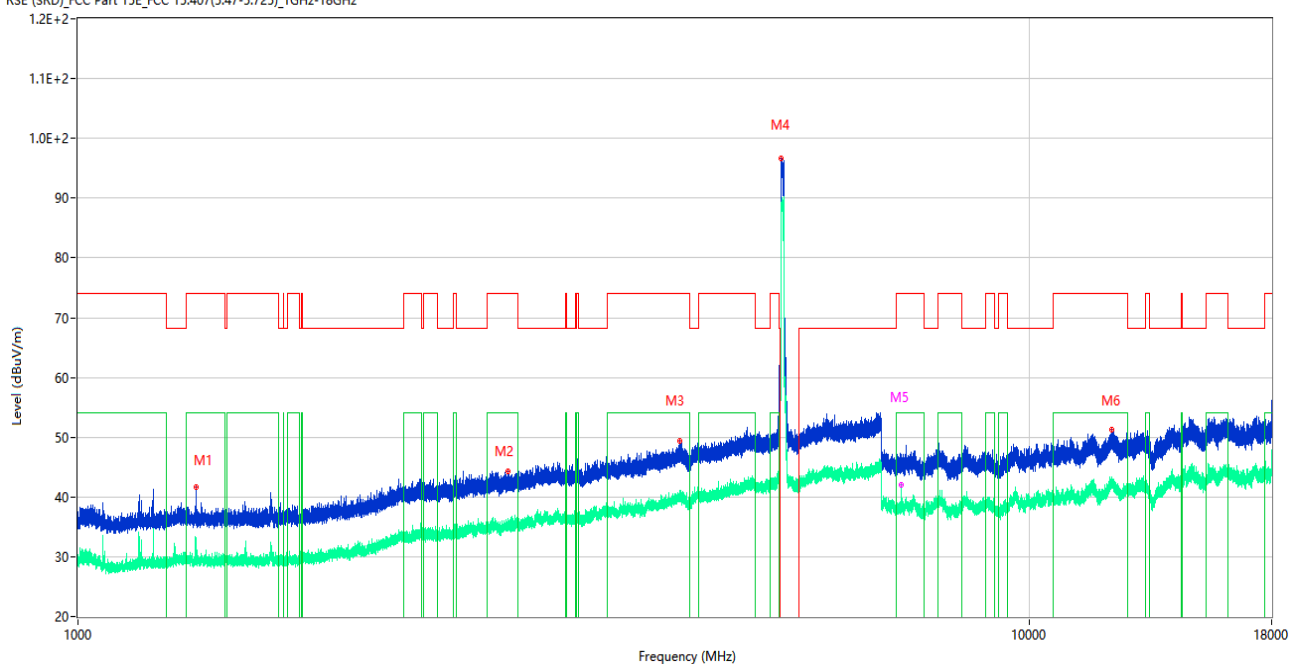
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.100	41.37	-17.41	74.0	32.63	Peak	163.00	100	Horizontal	Pass
1**	1328.100	29.42	-17.41	54.0	24.58	AV	163.00	100	Horizontal	Pass
2	2744.400	44.32	-10.31	74.0	29.68	Peak	0.00	200	Horizontal	Pass
2**	2744.400	34.83	-10.31	54.0	19.17	AV	0.00	200	Horizontal	Pass
3	4290.000	48.81	-4.59	74.0	25.19	Peak	129.00	100	Horizontal	Pass
3**	4290.000	39.33	-4.59	54.0	14.67	AV	129.00	100	Horizontal	Pass
4	5504.200	105.83	-2.78	--	--	Peak	104.00	100	Horizontal	N/A
4**	5504.200	97.31	-2.78	--	--	AV	104.00	100	Horizontal	N/A
5	7346.725	46.70	-3.01	74.0	27.30	Peak	114.00	150	Horizontal	Pass
5**	7346.725	42.87	-3.01	54.0	11.13	AV	114.00	150	Horizontal	Pass
6	12225.599	51.42	2.42	74.0	22.58	Peak	339.00	300	Horizontal	Pass
6**	12225.599	42.09	2.42	54.0	11.91	AV	339.00	300	Horizontal	Pass

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

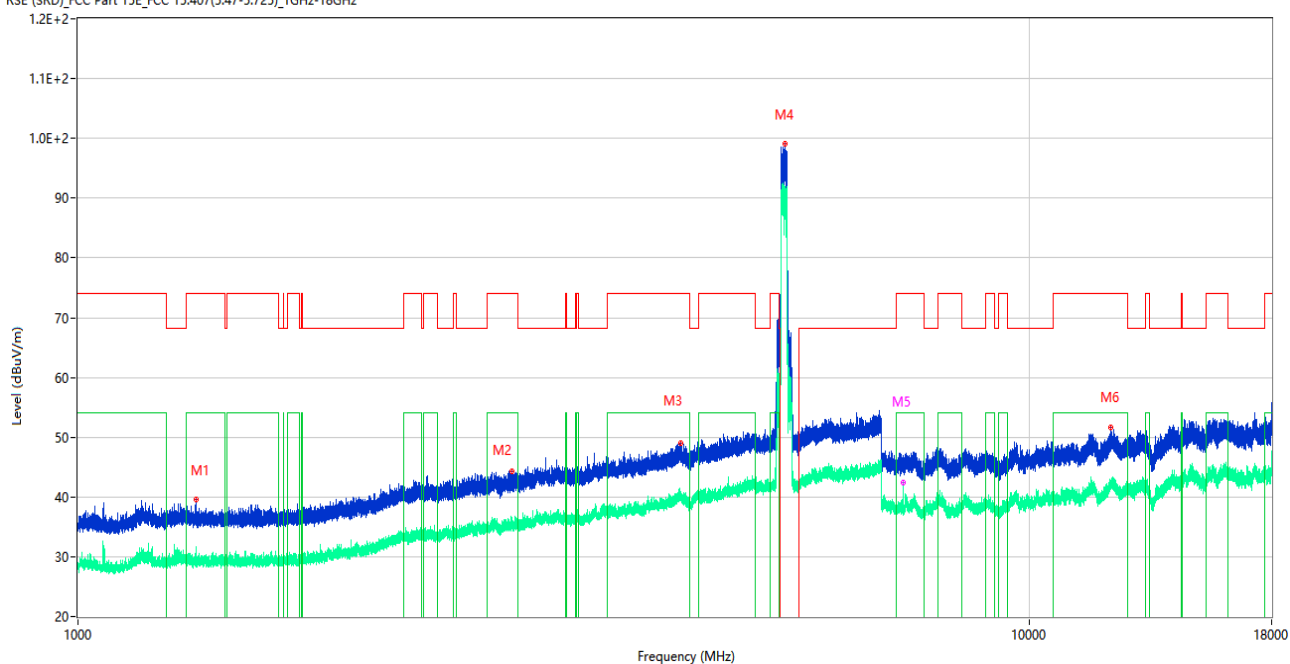
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.400	41.72	-17.59	74.0	32.28	Peak	274.00	200	Vertical	Pass
1**	1331.400	29.90	-17.59	54.0	24.10	AV	274.00	200	Vertical	Pass
2	2835.600	44.23	-10.34	74.0	29.77	Peak	0.00	200	Vertical	Pass
2**	2835.600	34.99	-10.34	54.0	19.01	AV	0.00	200	Vertical	Pass
3	4290.600	49.47	-4.59	74.0	24.53	Peak	88.00	200	Vertical	Pass
3**	4290.600	39.40	-4.59	54.0	14.60	AV	88.00	200	Vertical	Pass
4	5492.600	96.69	-2.73	--	--	Peak	152.00	100	Vertical	N/A
4**	5492.600	88.91	-2.73	--	--	AV	152.00	100	Vertical	N/A
5	7346.725	46.58	-3.01	74.0	27.42	Peak	80.00	100	Vertical	Pass
5**	7346.725	42.01	-3.01	54.0	11.99	AV	80.00	100	Vertical	Pass
6	12228.763	51.22	2.43	74.0	22.78	Peak	16.00	100	Vertical	Pass
6**	12228.763	41.45	2.43	54.0	12.55	AV	16.00	100	Vertical	Pass

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

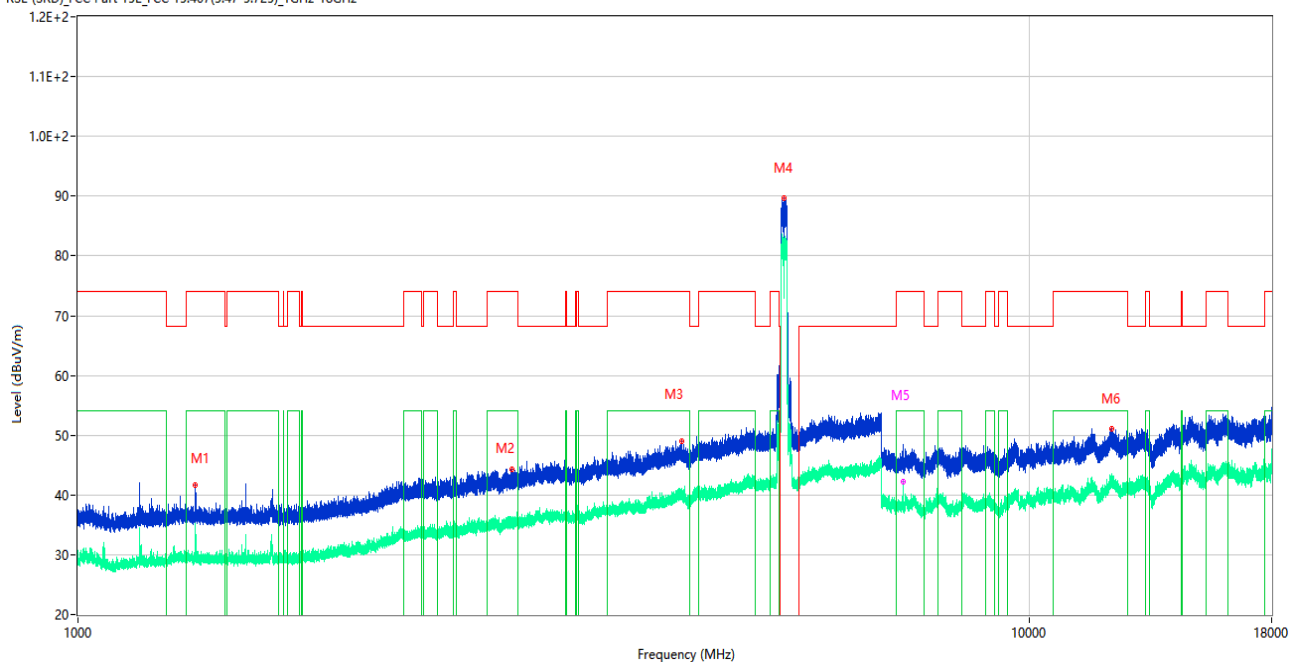
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.700	39.50	-17.50	74.0	34.50	Peak	212.00	400	Horizontal	Pass
1**	1329.700	29.57	-17.50	54.0	24.43	AV	212.00	400	Horizontal	Pass
2	2859.200	44.28	-10.23	74.0	29.72	Peak	279.00	400	Horizontal	Pass
2**	2859.200	35.55	-10.23	54.0	18.45	AV	279.00	400	Horizontal	Pass
3	4305.400	48.95	-4.56	74.0	25.05	Peak	81.00	150	Horizontal	Pass
3**	4305.400	40.17	-4.56	54.0	13.83	AV	81.00	150	Horizontal	Pass
4	5535.000	99.05	-2.72	--	--	Peak	97.00	400	Horizontal	N/A
4**	5535.000	90.83	-2.72	--	--	AV	97.00	400	Horizontal	N/A
5	7373.463	46.62	-2.81	74.0	27.38	Peak	112.00	150	Horizontal	Pass
5**	7373.463	42.33	-2.81	54.0	11.67	AV	112.00	150	Horizontal	Pass
6	12181.613	51.73	2.60	74.0	22.27	Peak	359.00	300	Horizontal	Pass
6**	12181.613	41.91	2.60	54.0	12.09	AV	359.00	300	Horizontal	Pass

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

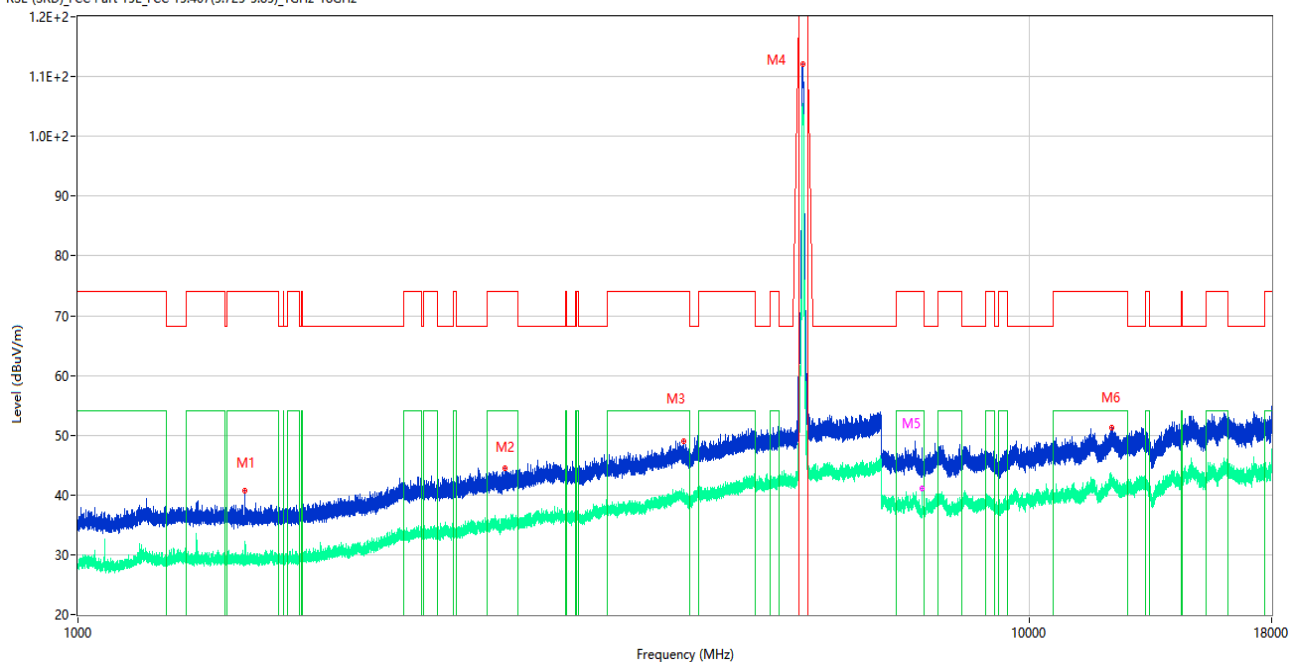
RSE (SRD)_FCC Part 15E_FCC 15.407(5.47-5.725)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.300	41.75	-17.41	74.0	32.25	Peak	270.00	300	Vertical	Pass
1**	1328.300	28.97	-17.41	54.0	25.03	AV	270.00	300	Vertical	Pass
2	2857.300	44.36	-10.24	74.0	29.64	Peak	143.00	200	Vertical	Pass
2**	2857.300	35.25	-10.24	54.0	18.75	AV	143.00	200	Vertical	Pass
3	4317.200	49.00	-4.75	74.0	25.00	Peak	9.00	200	Vertical	Pass
3**	4317.200	39.35	-4.75	54.0	14.65	AV	9.00	200	Vertical	Pass
4	5532.800	89.71	-2.76	--	--	Peak	162.00	200	Vertical	N/A
4**	5532.800	82.70	-2.76	--	--	AV	162.00	200	Vertical	N/A
5	7373.750	46.35	-2.82	74.0	27.65	Peak	251.00	200	Vertical	Pass
5**	7373.750	42.30	-2.82	54.0	11.70	AV	251.00	200	Vertical	Pass
6	12218.700	51.07	2.41	74.0	22.93	Peak	197.00	400	Vertical	Pass
6**	12218.700	41.92	2.41	54.0	12.08	AV	197.00	400	Vertical	Pass

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

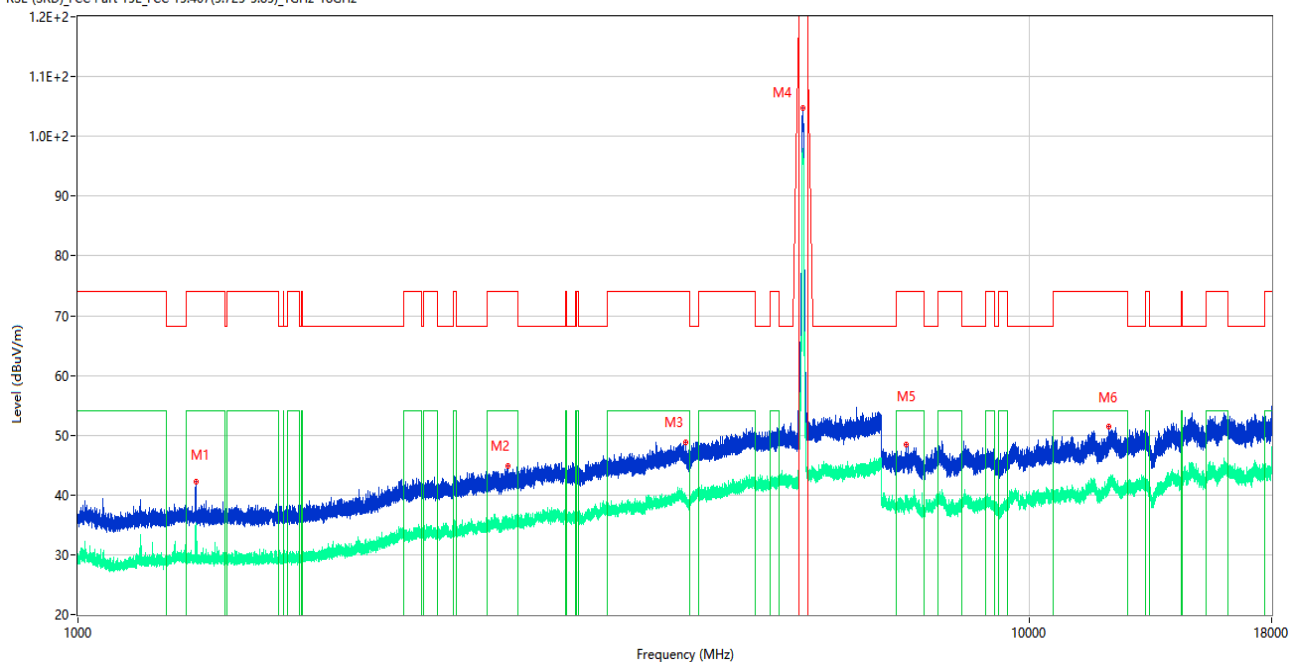
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.200	40.65	-17.54	74.0	33.35	Peak	310.00	150	Horizontal	Pass
1**	1498.200	29.05	-17.54	54.0	24.95	AV	310.00	150	Horizontal	Pass
2	2814.100	44.47	-10.53	74.0	29.53	Peak	359.00	400	Horizontal	Pass
2**	2814.100	34.94	-10.53	54.0	19.06	AV	359.00	400	Horizontal	Pass
3	4337.000	49.07	-4.74	74.0	24.93	Peak	71.00	100	Horizontal	Pass
3**	4337.000	39.81	-4.74	54.0	14.19	AV	71.00	100	Horizontal	Pass
4	5780.800	112.18	-2.76	--	--	Peak	102.00	300	Horizontal	N/A
4**	5780.800	104.10	-2.76	--	--	AV	102.00	300	Horizontal	N/A
5	7713.575	47.80	-3.63	74.0	26.20	Peak	162.00	150	Horizontal	Pass
5**	7713.575	41.14	-3.63	54.0	12.86	AV	162.00	150	Horizontal	Pass
6	12209.500	51.30	2.38	74.0	22.70	Peak	0.00	400	Horizontal	Pass
6**	12209.500	42.31	2.38	54.0	11.69	AV	0.00	400	Horizontal	Pass

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

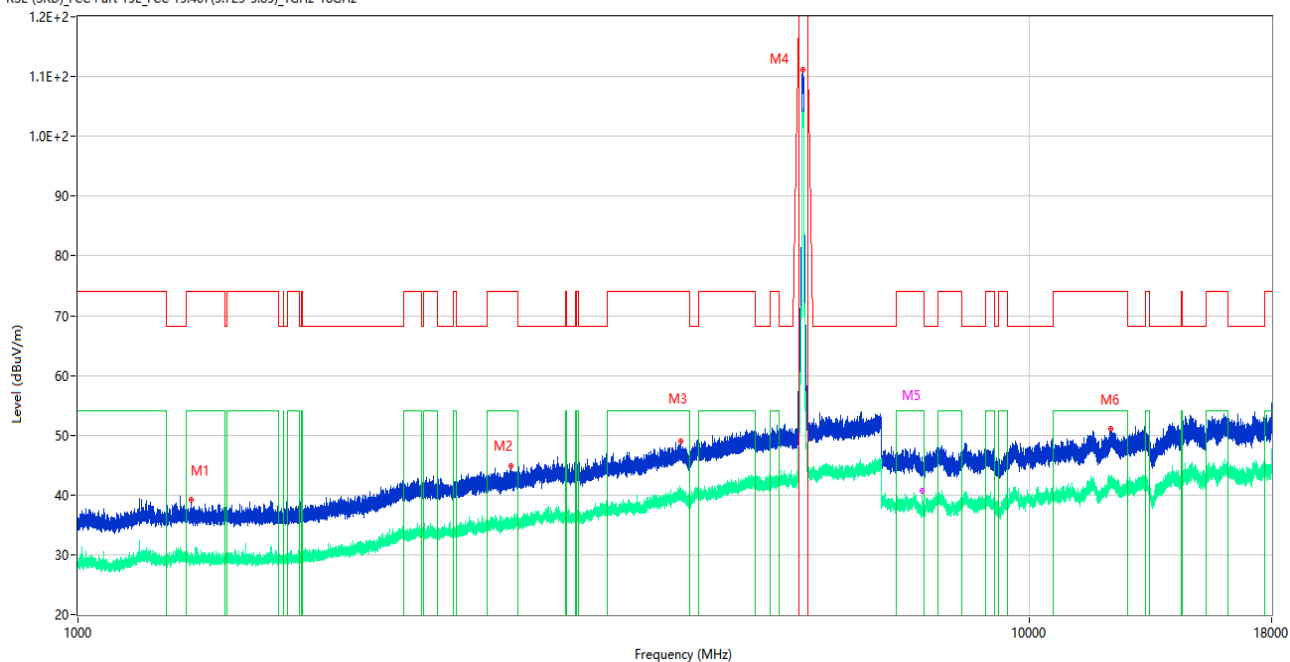
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.300	42.29	-17.58	74.0	31.71	Peak	274.00	200	Vertical	Pass
1**	1331.300	35.29	-17.58	54.0	18.71	AV	274.00	200	Vertical	Pass
2	2834.100	44.84	-10.38	74.0	29.16	Peak	140.00	200	Vertical	Pass
2**	2834.100	35.33	-10.38	54.0	18.67	AV	140.00	200	Vertical	Pass
3	4352.600	48.88	-4.72	74.0	25.12	Peak	0.00	150	Vertical	Pass
3**	4352.600	38.96	-4.72	54.0	15.04	AV	0.00	150	Vertical	Pass
4	5781.200	104.81	-2.77	--	--	Peak	30.00	400	Vertical	N/A
4**	5781.200	96.92	-2.77	--	--	AV	30.00	400	Vertical	N/A
5	7421.475	48.50	-2.27	74.0	25.50	Peak	131.00	100	Vertical	Pass
5**	7421.475	39.90	-2.27	54.0	14.10	AV	131.00	100	Vertical	Pass
6	12147.401	51.42	2.06	74.0	22.58	Peak	334.00	400	Vertical	Pass
6**	12147.401	41.28	2.06	54.0	12.72	AV	334.00	400	Vertical	Pass

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

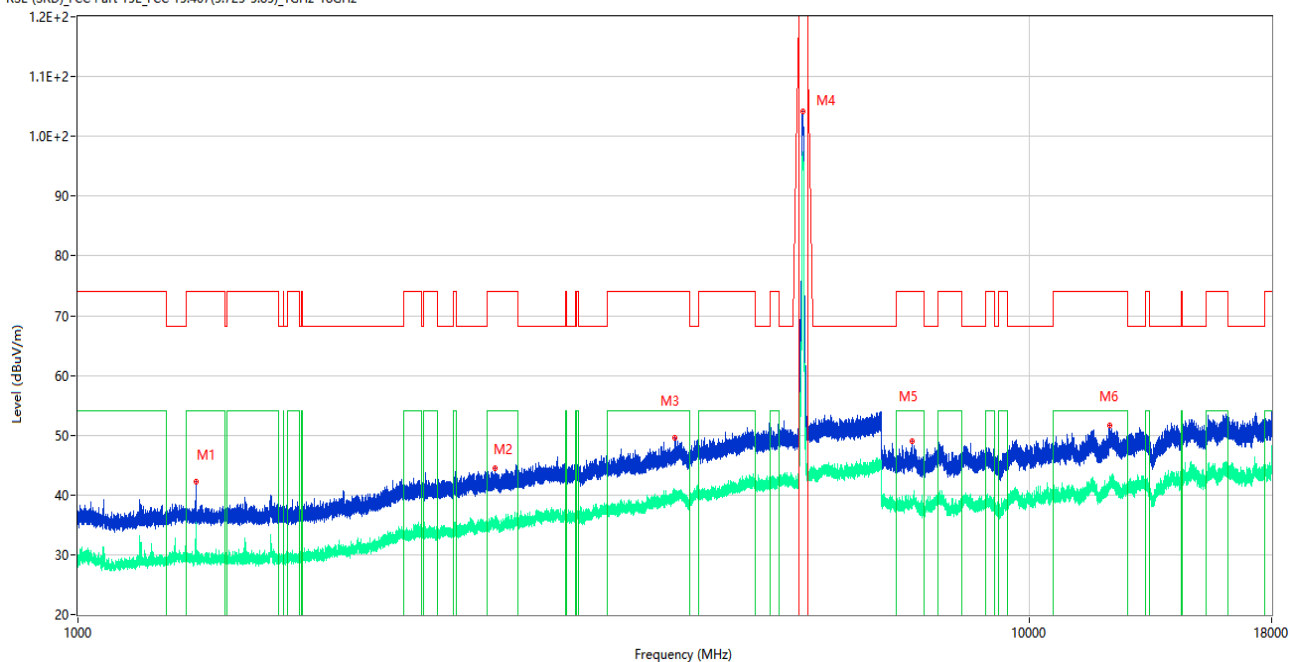
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1315.100	39.17	-17.33	74.0	34.83	Peak	60.00	400	Horizontal	Pass
1**	1315.100	29.33	-17.33	54.0	24.67	AV	60.00	400	Horizontal	Pass
2	2853.700	44.79	-10.37	74.0	29.21	Peak	359.00	200	Horizontal	Pass
2**	2853.700	35.12	-10.37	54.0	18.88	AV	359.00	200	Horizontal	Pass
3	4300.600	49.08	-4.56	74.0	24.92	Peak	264.00	200	Horizontal	Pass
3**	4300.600	39.87	-4.56	54.0	14.13	AV	264.00	200	Horizontal	Pass
4	5788.000	111.16	-2.70	--	--	Peak	88.00	100	Horizontal	N/A
4**	5788.000	102.46	-2.70	--	--	AV	88.00	100	Horizontal	N/A
5	7713.575	44.35	-3.63	74.0	29.65	Peak	178.00	150	Horizontal	Pass
5**	7713.575	40.76	-3.63	54.0	13.24	AV	178.00	150	Horizontal	Pass
6	12181.900	51.00	2.60	74.0	23.00	Peak	49.00	100	Horizontal	Pass
6**	12181.900	42.07	2.60	54.0	11.93	AV	49.00	100	Horizontal	Pass

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

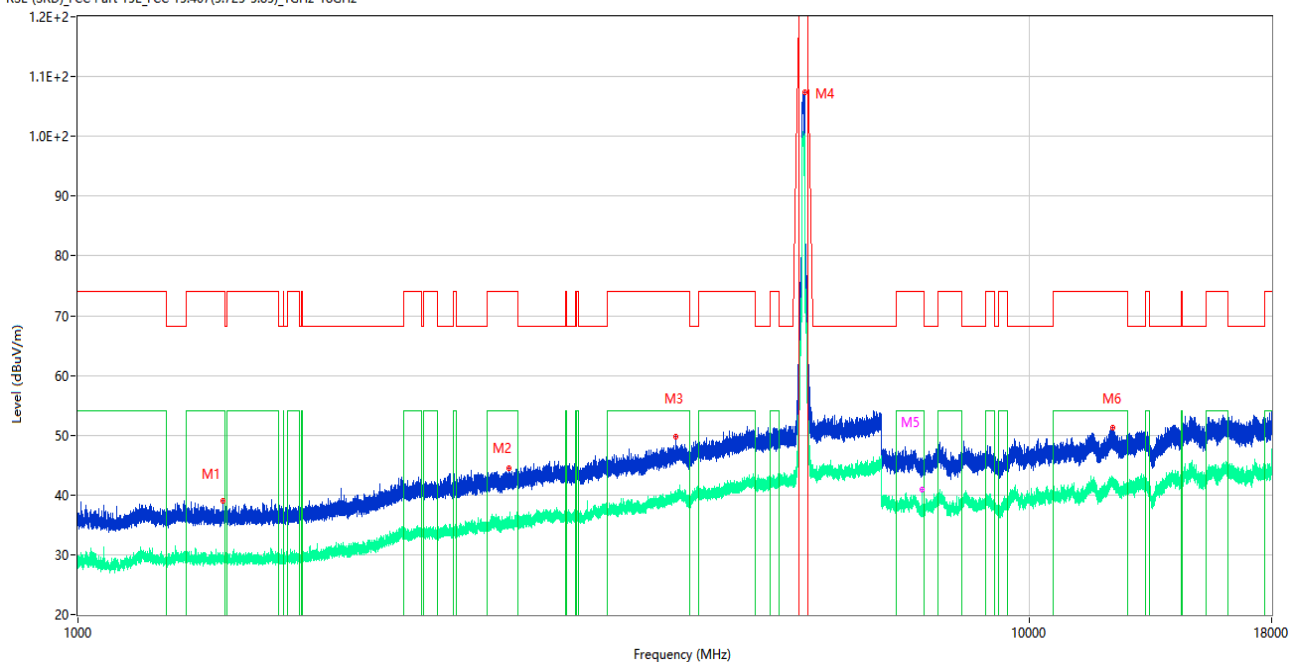
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.500	42.26	-17.55	74.0	31.74	Peak	335.00	300	Vertical	Pass
1**	1330.500	35.48	-17.55	54.0	18.52	AV	335.00	300	Vertical	Pass
2	2747.600	44.46	-10.21	74.0	29.54	Peak	261.00	300	Vertical	Pass
2**	2747.600	35.74	-10.21	54.0	18.26	AV	261.00	300	Vertical	Pass
3	4244.000	49.48	-4.86	74.0	24.52	Peak	57.00	200	Vertical	Pass
3**	4244.000	39.77	-4.86	54.0	14.23	AV	57.00	200	Vertical	Pass
4	5780.200	104.26	-2.73	--	--	Peak	33.00	400	Vertical	N/A
4**	5780.200	96.80	-2.73	--	--	AV	33.00	400	Vertical	N/A
5	7530.725	48.93	-2.44	74.0	25.07	Peak	80.00	100	Vertical	Pass
5**	7530.725	37.97	-2.44	54.0	16.03	AV	80.00	100	Vertical	Pass
6	12165.800	51.55	2.44	74.0	22.45	Peak	91.00	400	Vertical	Pass
6**	12165.800	41.69	2.44	54.0	12.31	AV	91.00	400	Vertical	Pass

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

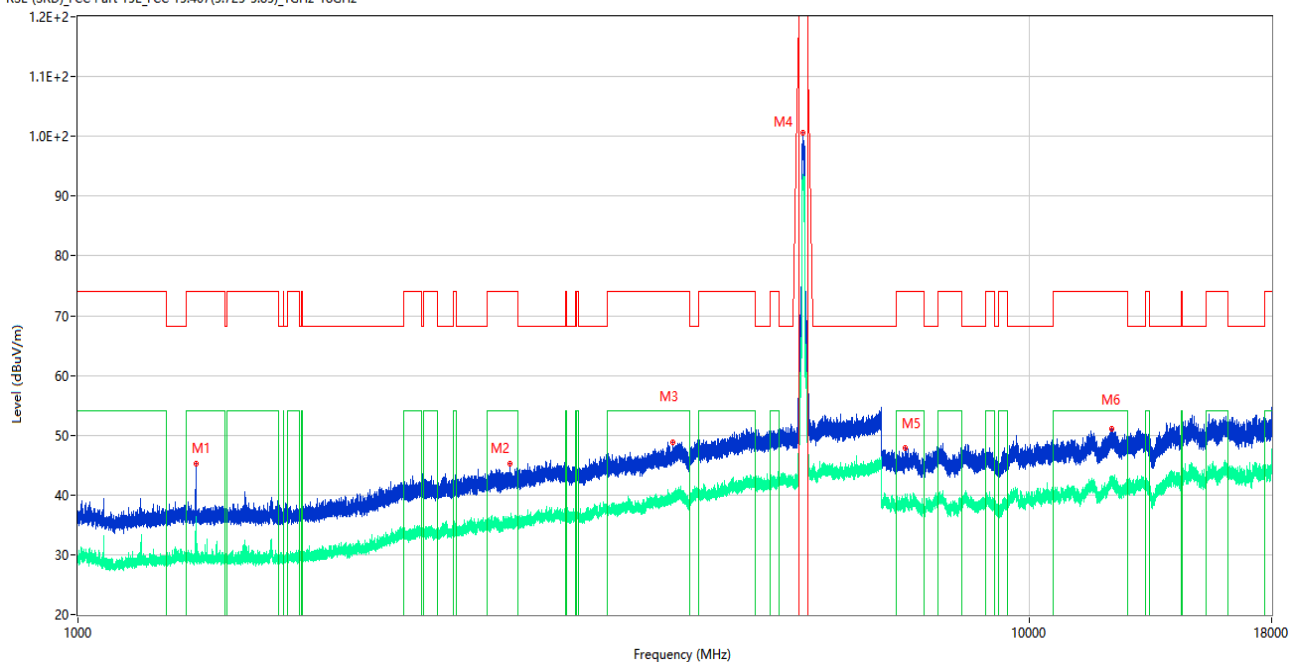
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1421.000	39.10	-17.32	74.0	34.90	Peak	58.00	400	Horizontal	Pass
1**	1421.000	29.20	-17.32	54.0	24.80	AV	58.00	400	Horizontal	Pass
2	2837.300	44.51	-10.30	74.0	29.49	Peak	315.00	400	Horizontal	Pass
2**	2837.300	35.02	-10.30	54.0	18.98	AV	315.00	400	Horizontal	Pass
3	4255.800	49.72	-4.50	74.0	24.28	Peak	168.00	200	Horizontal	Pass
3**	4255.800	40.01	-4.50	54.0	13.99	AV	168.00	200	Horizontal	Pass
4	5809.400	107.45	-2.87	--	--	Peak	96.00	100	Horizontal	N/A
4**	5809.400	98.30	-2.87	--	--	AV	96.00	100	Horizontal	N/A
5	7726.800	44.88	-3.60	74.0	29.12	Peak	263.00	100	Horizontal	Pass
5**	7726.800	40.94	-3.60	54.0	13.06	AV	263.00	100	Horizontal	Pass
6	12240.263	51.20	2.46	74.0	22.80	Peak	26.00	400	Horizontal	Pass
6**	12240.263	42.13	2.46	54.0	11.87	AV	26.00	400	Horizontal	Pass

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

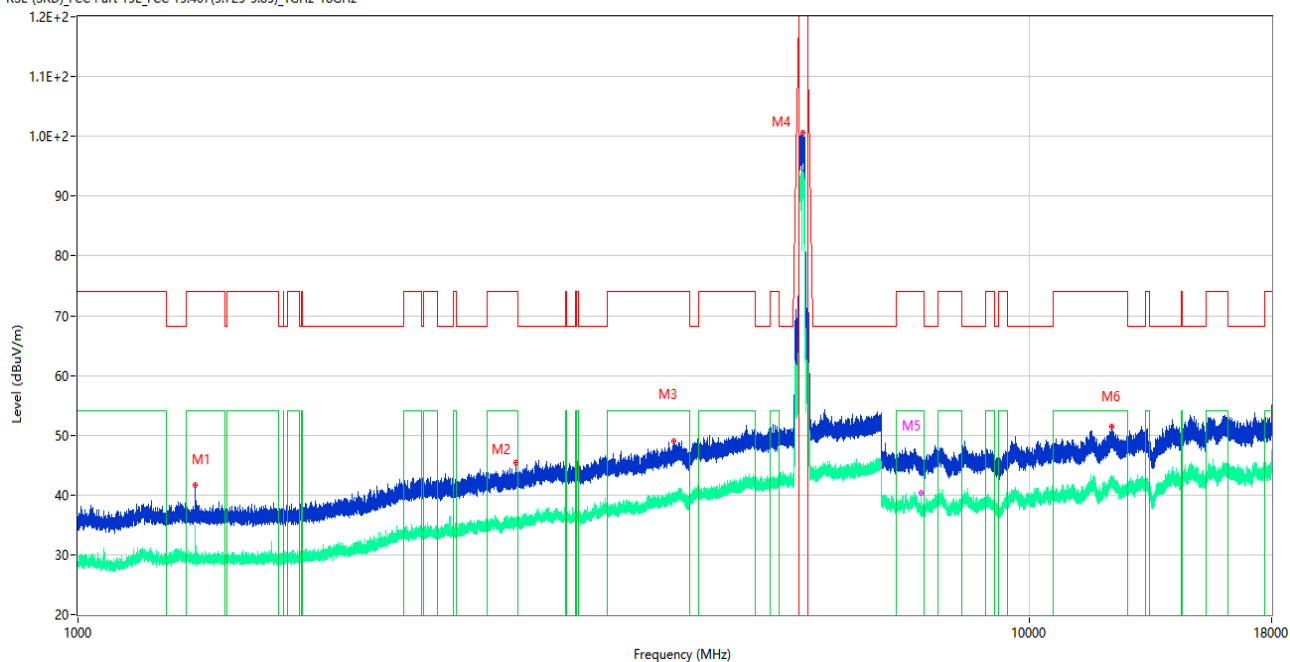
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.000	45.28	-17.57	74.0	28.72	Peak	275.00	200	Vertical	Pass
1**	1331.000	30.35	-17.57	54.0	23.65	AV	275.00	200	Vertical	Pass
2	2847.400	45.14	-10.66	74.0	28.86	Peak	119.00	400	Vertical	Pass
2**	2847.400	34.91	-10.66	54.0	19.09	AV	119.00	400	Vertical	Pass
3	4217.600	48.89	-4.62	74.0	25.11	Peak	360.00	200	Vertical	Pass
3**	4217.600	39.28	-4.62	54.0	14.72	AV	360.00	200	Vertical	Pass
4	5788.200	100.52	-2.68	--	--	Peak	27.00	100	Vertical	N/A
4**	5788.200	93.08	-2.68	--	--	AV	27.00	100	Vertical	N/A
5	7417.163	47.83	-2.21	74.0	26.17	Peak	133.00	200	Vertical	Pass
5**	7417.163	38.67	-2.21	54.0	15.33	AV	133.00	200	Vertical	Pass
6	12218.412	51.04	2.41	74.0	22.96	Peak	285.00	200	Vertical	Pass
6**	12218.412	41.94	2.41	54.0	12.06	AV	285.00	200	Vertical	Pass

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

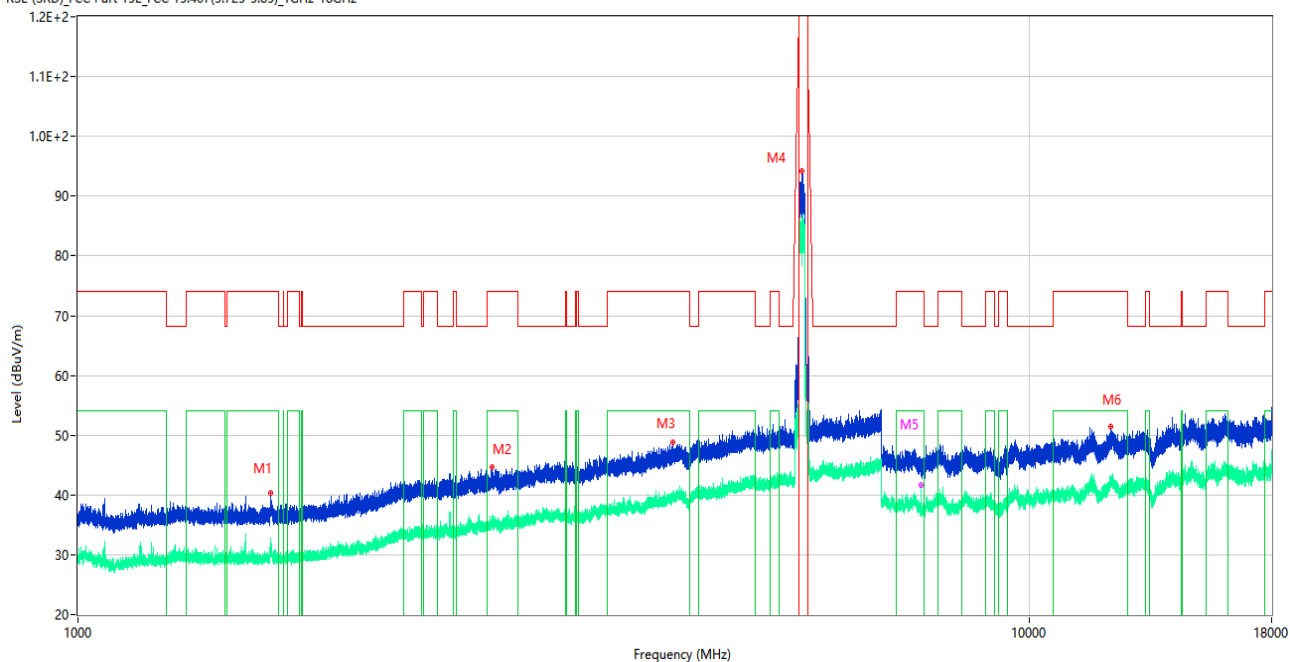
RSE (SRD)_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.100	41.63	-17.46	74.0	32.37	Peak	166.00	300	Horizontal	Pass
1**	1329.100	28.68	-17.46	54.0	25.32	AV	166.00	300	Horizontal	Pass
2	2886.300	45.46	-9.84	74.0	28.54	Peak	226.00	150	Horizontal	Pass
2**	2886.300	35.33	-9.84	54.0	18.67	AV	226.00	150	Horizontal	Pass
3	4236.600	49.01	-4.91	74.0	24.99	Peak	250.00	200	Horizontal	Pass
3**	4236.600	39.67	-4.91	54.0	14.33	AV	250.00	200	Horizontal	Pass
4	5781.400	100.67	-2.78	--	--	Peak	83.00	100	Horizontal	N/A
4**	5781.400	91.67	-2.78	--	--	AV	83.00	100	Horizontal	N/A
5	7700.350	44.92	-3.49	74.0	29.08	Peak	241.00	150	Horizontal	Pass
5**	7700.350	40.41	-3.49	54.0	13.59	AV	241.00	150	Horizontal	Pass
6	12225.313	51.46	2.43	74.0	22.54	Peak	231.00	200	Horizontal	Pass
6**	12225.313	42.50	2.43	54.0	11.50	AV	231.00	200	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)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1594.100	40.25	-17.74	74.0	33.75	Peak	222.00	150	Vertical	Pass
1**	1594.100	30.40	-17.74	54.0	23.60	AV	222.00	150	Vertical	Pass
2	2723.500	44.76	-10.52	74.0	29.24	Peak	126.00	400	Vertical	Pass
2**	2723.500	34.90	-10.52	54.0	19.10	AV	126.00	400	Vertical	Pass
3	4224.000	48.86	-4.37	74.0	25.14	Peak	3.00	150	Vertical	Pass
3**	4224.000	39.39	-4.37	54.0	14.61	AV	3.00	150	Vertical	Pass
4	5773.400	94.22	-2.81	--	--	Peak	24.00	200	Vertical	N/A
4**	5773.400	84.13	-2.81	--	--	AV	24.00	200	Vertical	N/A
5	7700.063	45.39	-3.52	74.0	28.61	Peak	200.00	150	Vertical	Pass
5**	7700.063	41.68	-3.52	54.0	12.32	AV	200.00	150	Vertical	Pass
6	12187.076	51.52	2.54	74.0	22.48	Peak	222.00	300	Vertical	Pass
6**	12187.076	41.89	2.54	54.0	12.11	AV	222.00	300	Vertical	Pass

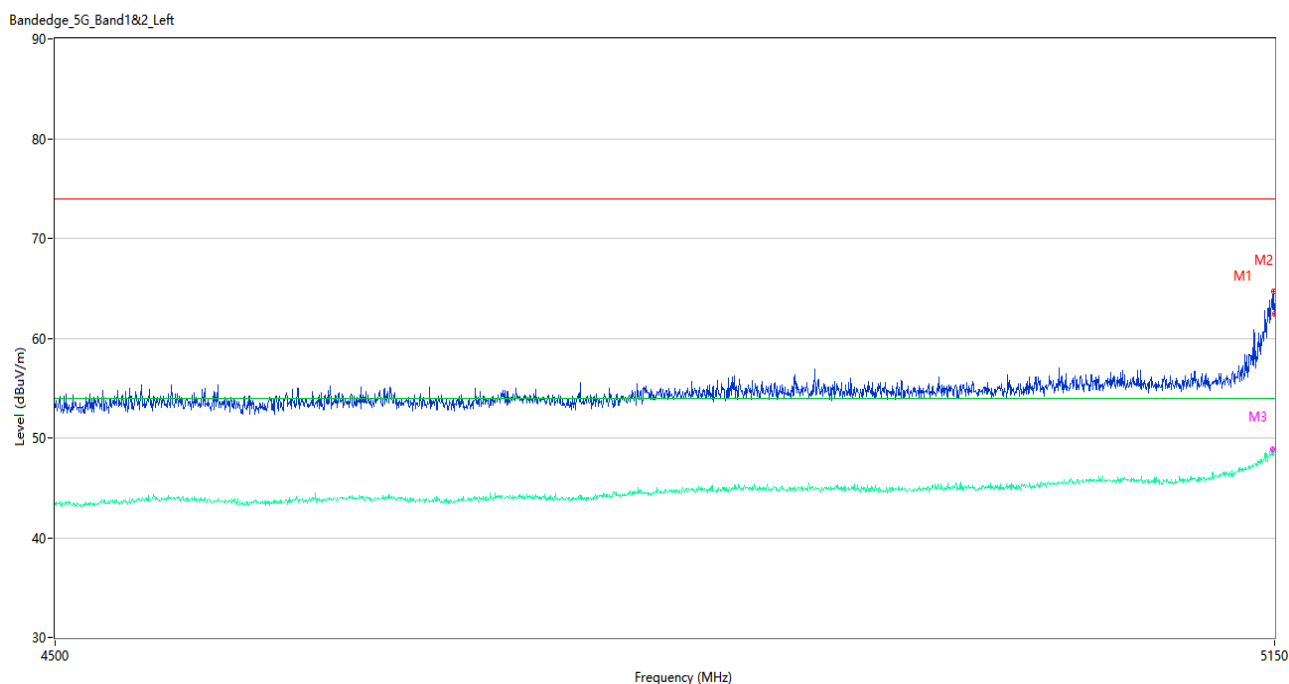
A.6.2 Band Edge (Restricted-band)

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
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
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
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(VHT80)	Low	Pass
		High	Pass

		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass

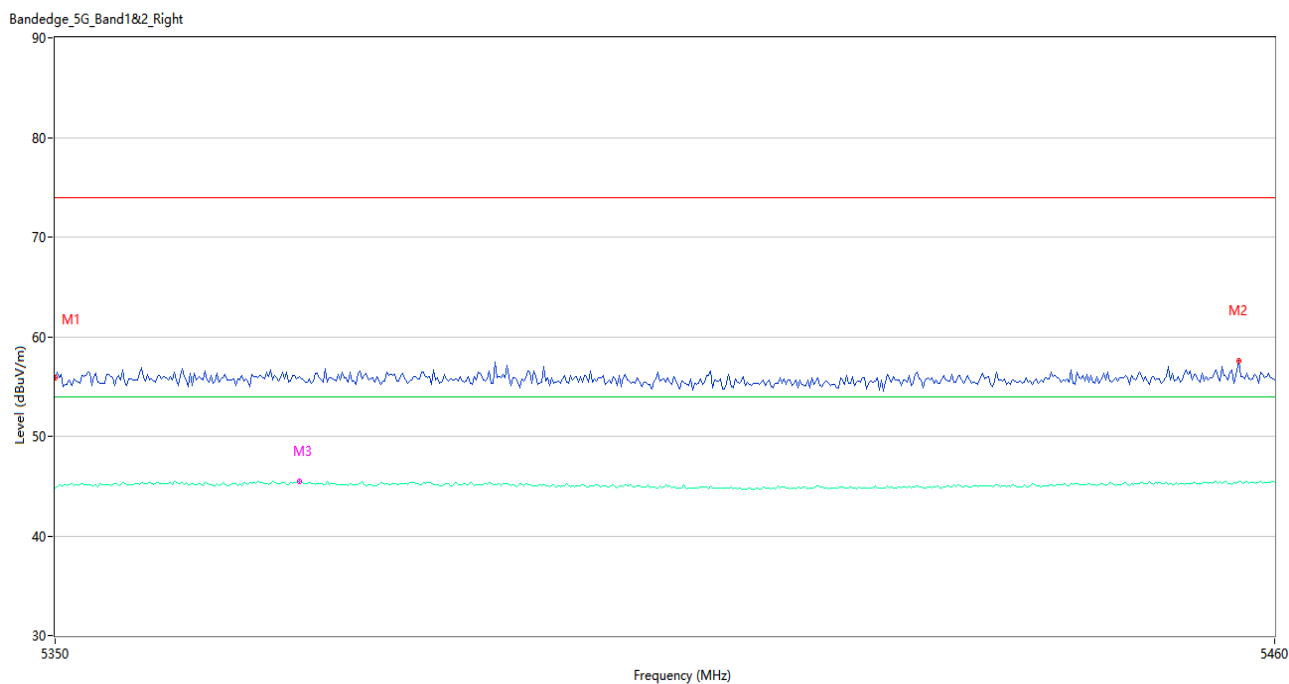
Test Data and Plots

U-NII-1 11a CH36



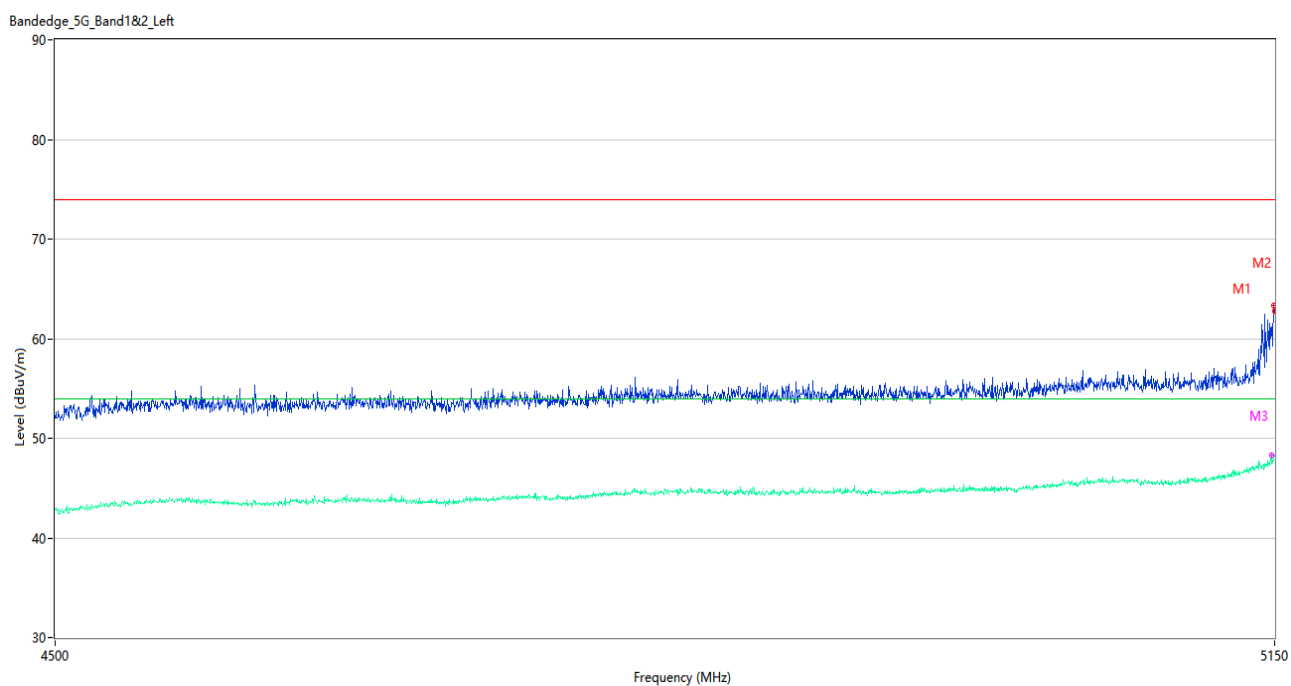
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5149.675	64.64	2.47	74.0	9.36	Peak	120.00	400	Horizontal	Pass
1**	5149.675	48.44	2.47	54.0	5.56	AV	120.00	400	Horizontal	Pass
2	5150.000	62.40	2.46	74.0	11.60	Peak	85.00	150	Horizontal	Pass
2**	5150.000	48.90	2.46	54.0	5.10	AV	85.00	150	Horizontal	Pass
3	5148.700	62.84	2.49	74.0	11.16	Peak	96.00	150	Horizontal	Pass
3**	5148.700	48.92	2.49	54.0	5.08	AV	96.00	150	Horizontal	Pass

U-NII-1 11a CH48



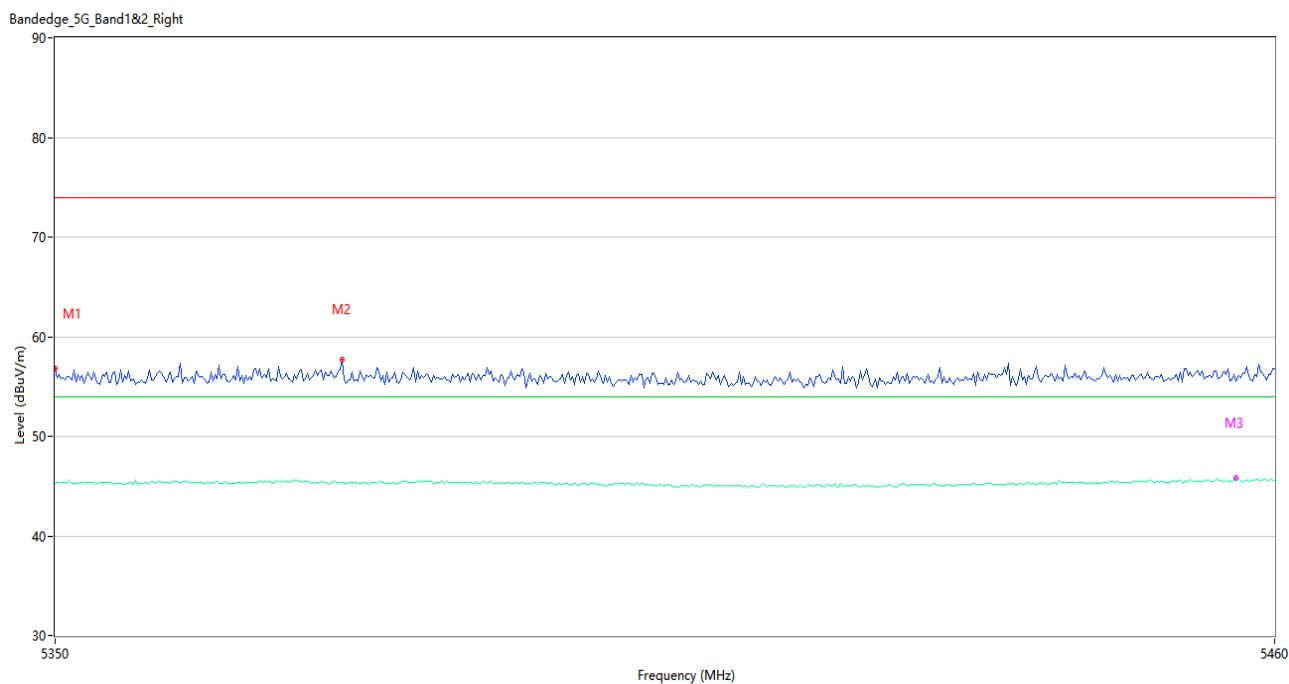
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.82	2.52	74.0	18.18	Peak	357.00	100	Horizontal	Pass
1**	5350.000	44.84	2.52	54.0	9.16	AV	357.00	100	Horizontal	Pass
2	5456.700	57.62	2.60	74.0	16.38	Peak	334.00	400	Horizontal	Pass
2**	5456.700	45.46	2.60	54.0	8.54	AV	334.00	400	Horizontal	Pass
3	5371.817	55.98	2.59	74.0	18.02	Peak	112.00	150	Horizontal	Pass
3**	5371.817	45.52	2.59	54.0	8.48	AV	112.00	150	Horizontal	Pass

U-NII-1 11n20 CH36



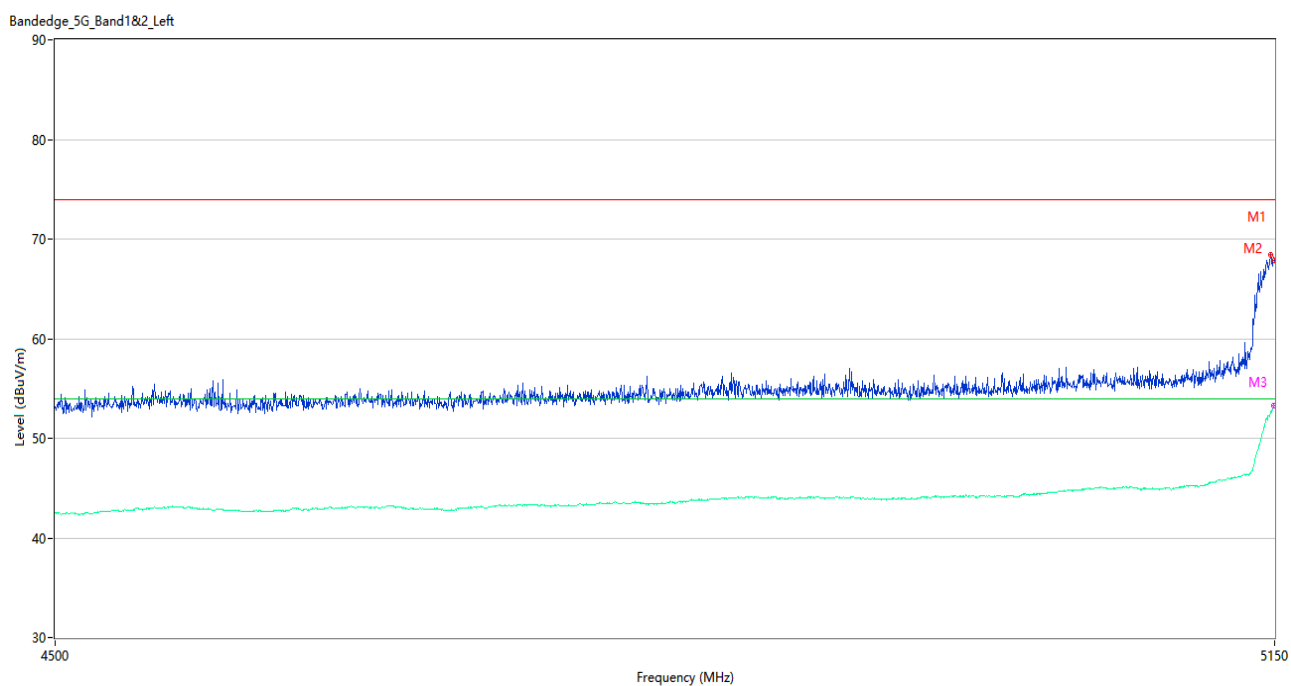
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5149.350	63.33	2.48	74.0	10.67	Peak	117.00	400	Horizontal	Pass
1**	5149.350	47.78	2.48	54.0	6.22	AV	117.00	400	Horizontal	Pass
2	5150.000	62.80	2.46	74.0	11.20	Peak	54.00	300	Horizontal	Pass
2**	5150.000	48.26	2.46	54.0	5.74	AV	54.00	300	Horizontal	Pass
3	5148.050	60.32	2.48	74.0	13.68	Peak	109.00	150	Horizontal	Pass
3**	5148.050	48.33	2.48	54.0	5.67	AV	109.00	150	Horizontal	Pass

U-NII-1 11n20 CH48



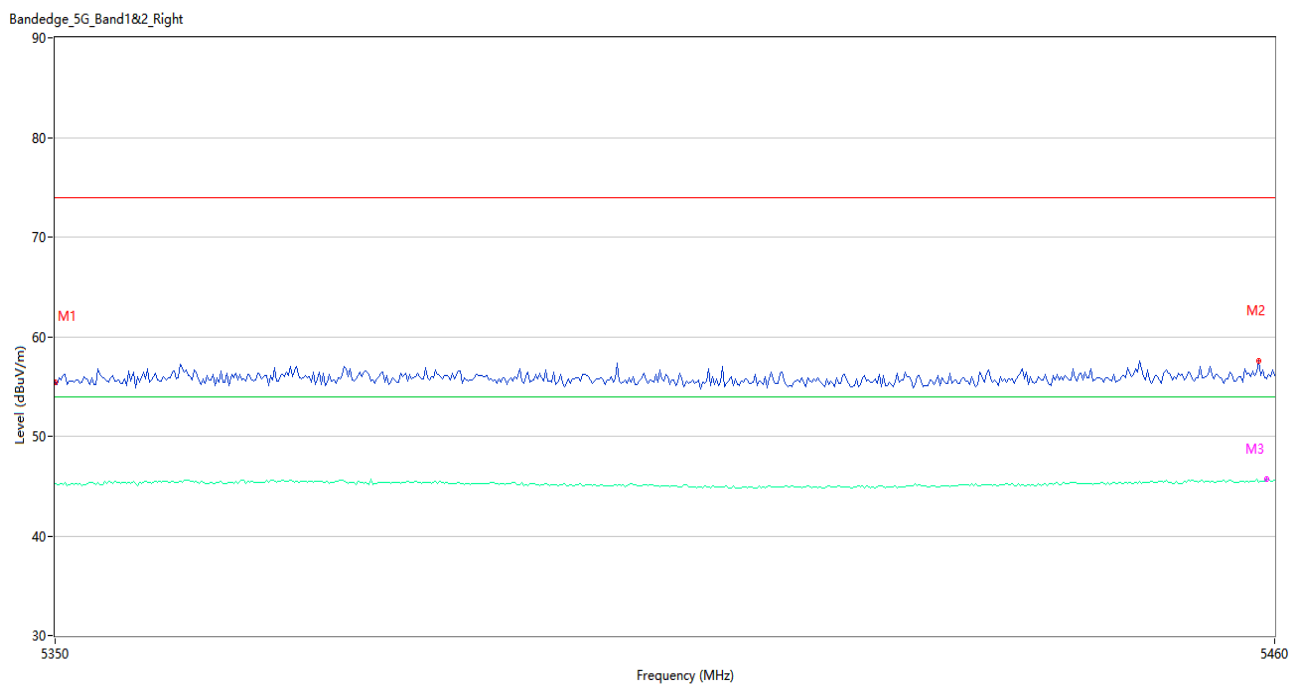
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.73	2.52	74.0	17.27	Peak	173.00	200	Horizontal	Pass
1**	5350.000	45.24	2.52	54.0	8.76	AV	173.00	200	Horizontal	Pass
2	5375.667	57.72	2.49	74.0	16.28	Peak	184.00	400	Horizontal	Pass
2**	5375.667	45.39	2.49	54.0	8.61	AV	184.00	400	Horizontal	Pass
3	5456.517	55.56	2.60	74.0	18.44	Peak	215.00	200	Horizontal	Pass
3**	5456.517	45.76	2.60	54.0	8.24	AV	215.00	200	Horizontal	Pass

U-NII-1 11n40 CH38



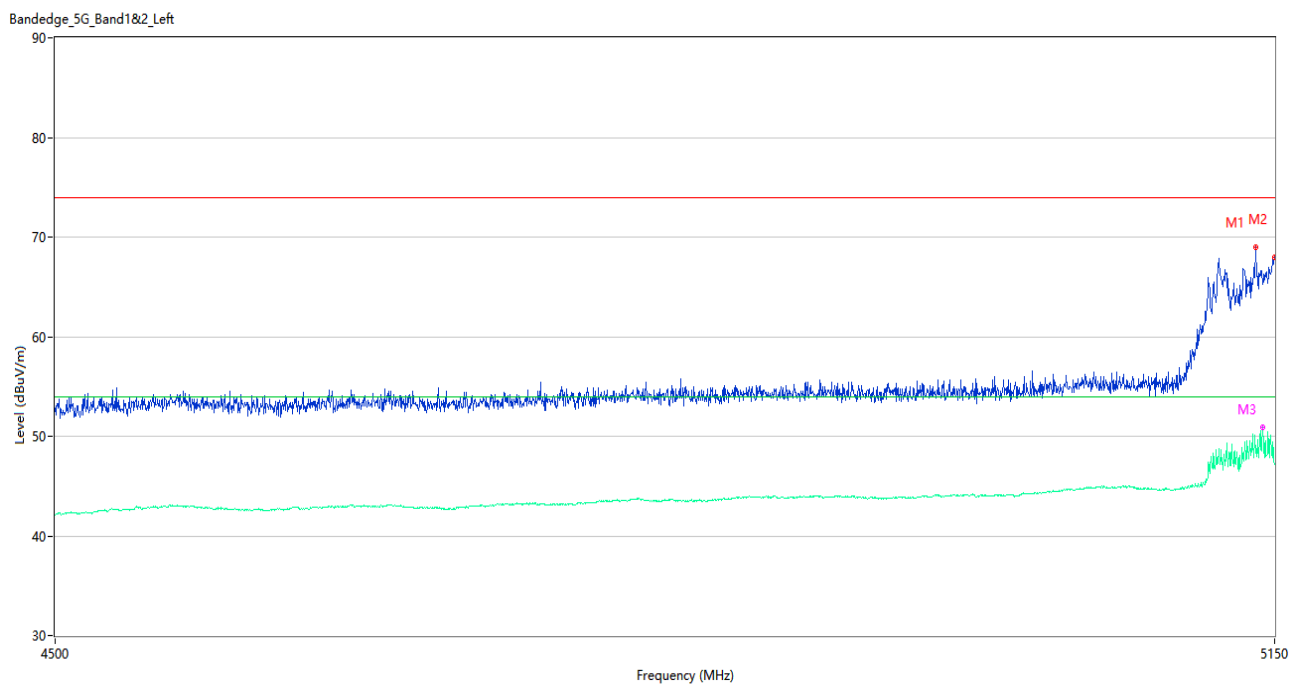
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.725	68.39	2.47	74.0	5.61	Peak	93.00	200	Horizontal	Pass
1**	5147.725	52.67	2.47	54.0	1.33	AV	93.00	200	Horizontal	Pass
2	5150.000	67.85	2.46	74.0	6.15	Peak	93.00	200	Horizontal	Pass
2**	5150.000	53.26	2.46	54.0	0.74	AV	93.00	200	Horizontal	Pass
3	5149.675	68.14	2.47	74.0	5.86	Peak	93.00	200	Horizontal	Pass
3**	5149.675	53.28	2.47	54.0	0.72	AV	93.00	200	Horizontal	Pass

U-NII-1 11n40 CH46



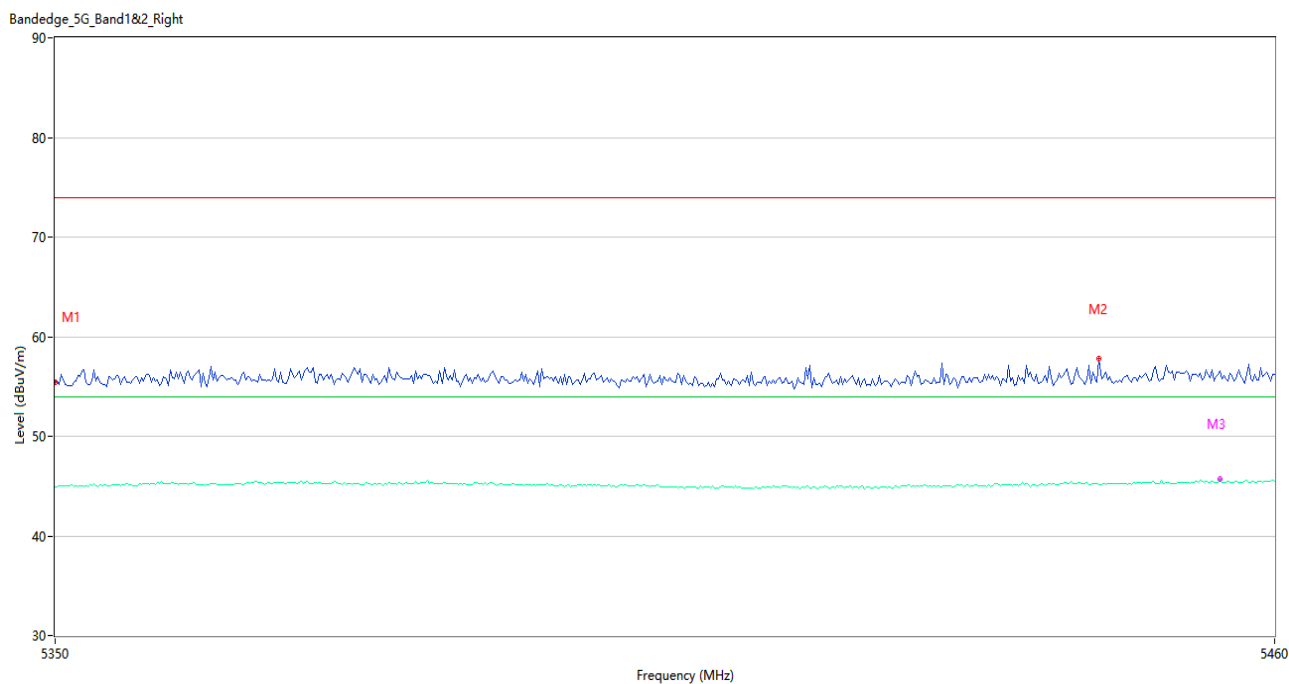
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.40	2.52	74.0	18.60	Peak	81.00	400	Horizontal	Pass
1**	5350.000	45.24	2.52	54.0	8.76	AV	81.00	400	Horizontal	Pass
2	5458.533	57.62	2.66	74.0	16.38	Peak	204.00	200	Horizontal	Pass
2**	5458.533	45.39	2.66	54.0	8.61	AV	204.00	200	Horizontal	Pass
3	5459.267	55.81	2.68	74.0	18.19	Peak	150.00	200	Horizontal	Pass
3**	5459.267	45.72	2.68	54.0	8.28	AV	150.00	200	Horizontal	Pass

U-NII-1 11ac80 CH42



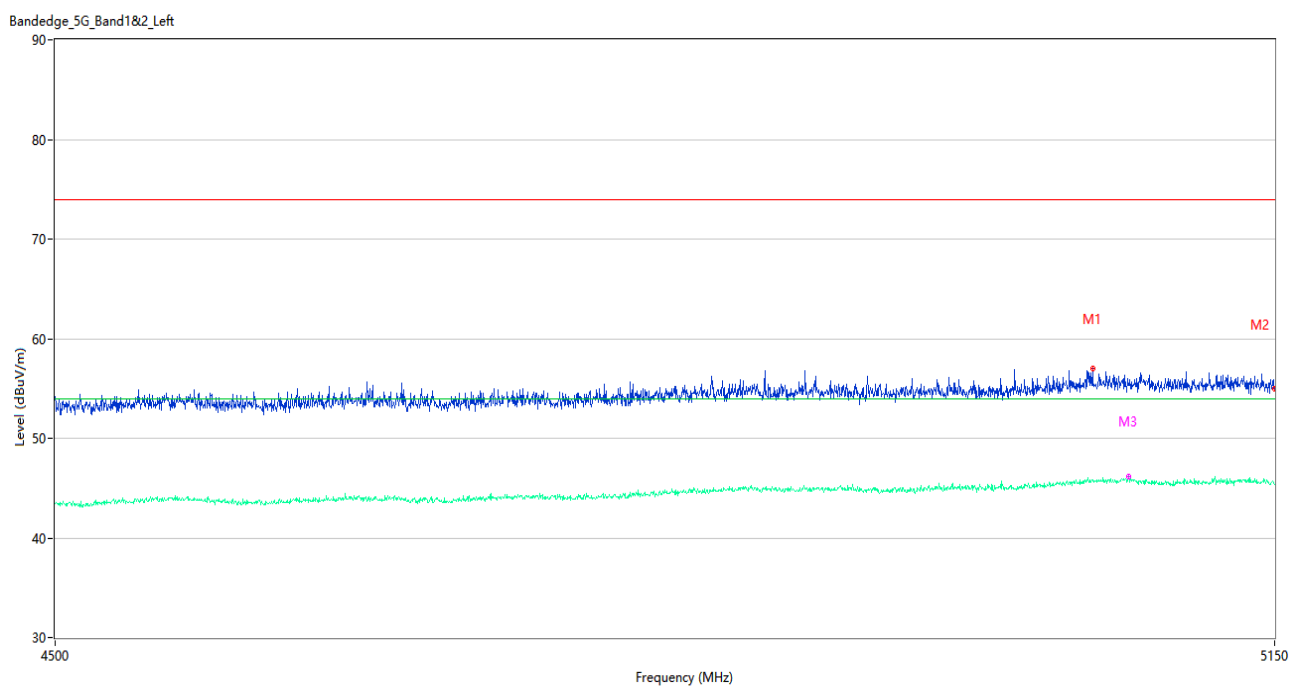
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5139.275	68.98	2.46	74.0	5.02	Peak	110.00	100	Horizontal	Pass
1**	5139.275	48.30	2.46	54.0	5.70	AV	110.00	100	Horizontal	Pass
2	5150.000	68.00	2.46	74.0	6.00	Peak	110.00	100	Horizontal	Pass
2**	5150.000	47.20	2.46	54.0	6.80	AV	110.00	100	Horizontal	Pass
3	5143.175	65.24	2.49	74.0	8.76	Peak	110.00	100	Horizontal	Pass
3**	5143.175	50.88	2.49	54.0	3.12	AV	110.00	100	Horizontal	Pass

U-NII-1 11ac80 CH42



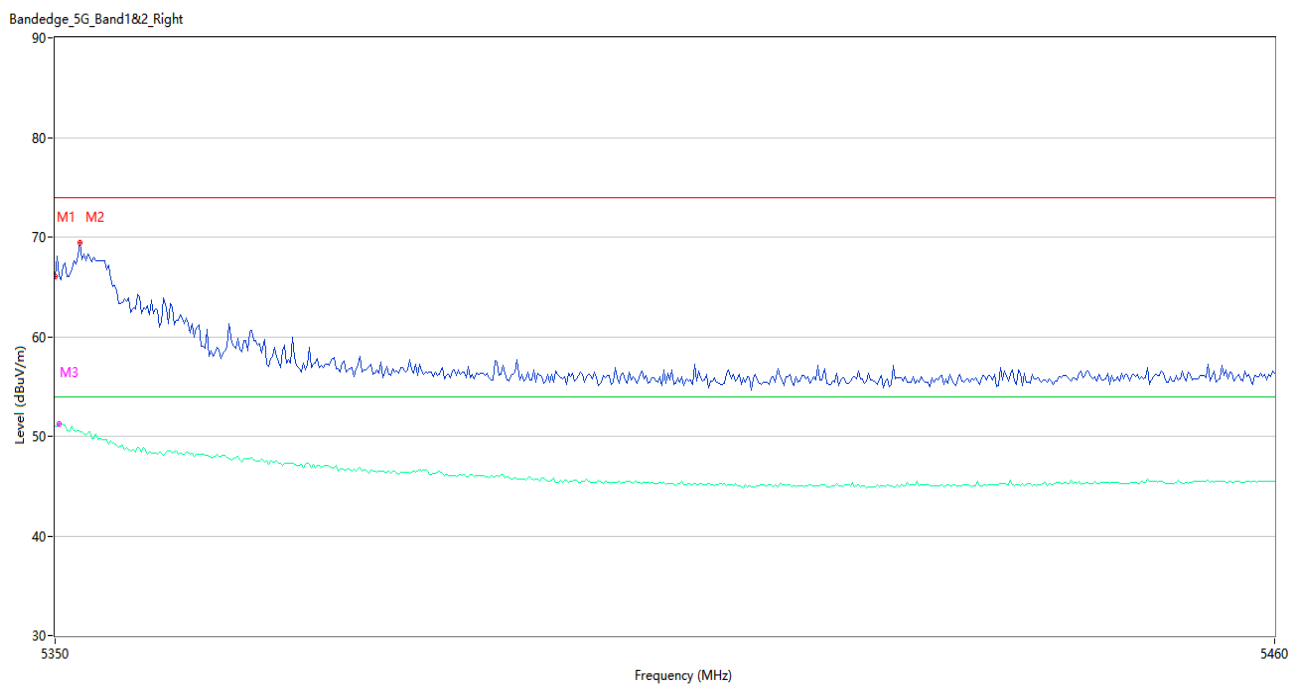
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.37	2.52	74.0	18.63	Peak	0.00	300	Horizontal	Pass
1**	5350.000	44.95	2.52	54.0	9.05	AV	0.00	300	Horizontal	Pass
2	5444.050	57.75	2.45	74.0	16.25	Peak	284.00	300	Horizontal	Pass
2**	5444.050	45.17	2.45	54.0	8.83	AV	284.00	300	Horizontal	Pass
3	5455.050	56.53	2.62	74.0	17.47	Peak	0.00	150	Horizontal	Pass
3**	5455.050	45.66	2.62	54.0	8.34	AV	0.00	150	Horizontal	Pass

U-NII-2A 11a CH52



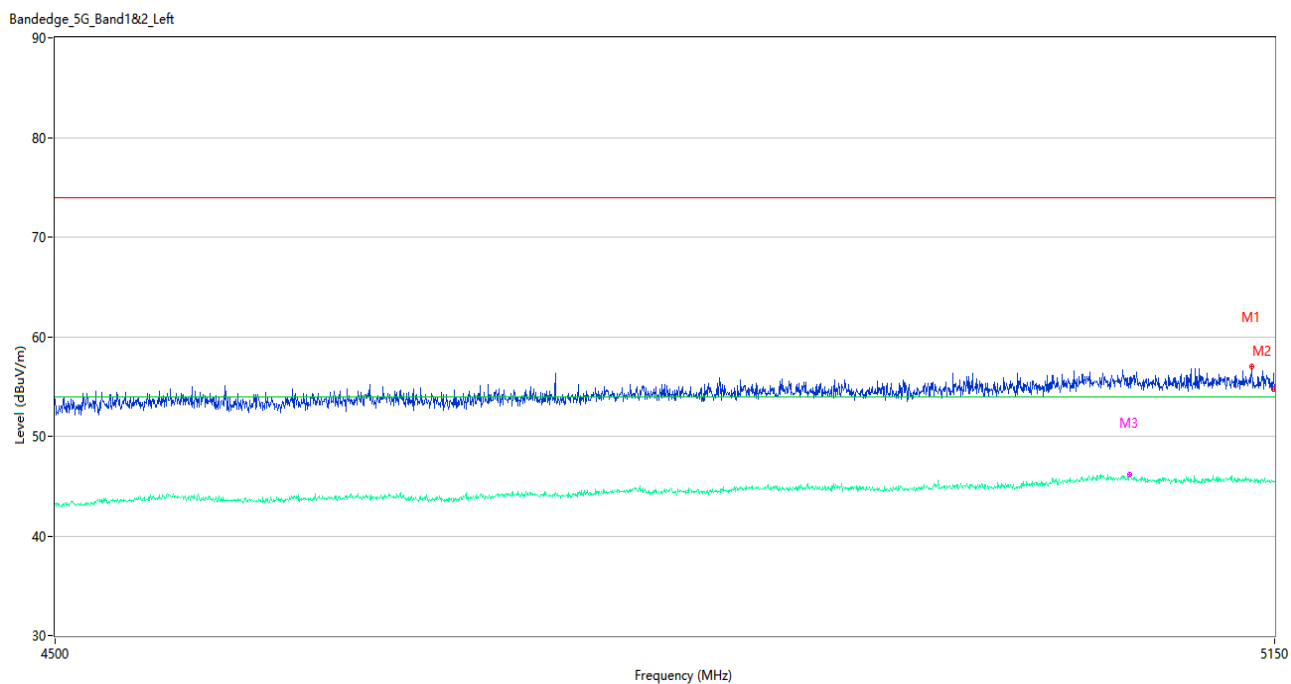
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5047.300	57.02	2.75	74.0	16.98	Peak	180.00	400	Horizontal	Pass
1**	5047.300	45.75	2.75	54.0	8.25	AV	180.00	400	Horizontal	Pass
2	5150.000	54.93	2.46	74.0	19.07	Peak	166.00	200	Horizontal	Pass
2**	5150.000	45.34	2.46	54.0	8.66	AV	166.00	200	Horizontal	Pass
3	5067.450	55.32	2.66	74.0	18.68	Peak	209.00	150	Horizontal	Pass
3**	5067.450	46.11	2.66	54.0	7.89	AV	209.00	150	Horizontal	Pass

U-NII-2A 11a CH64



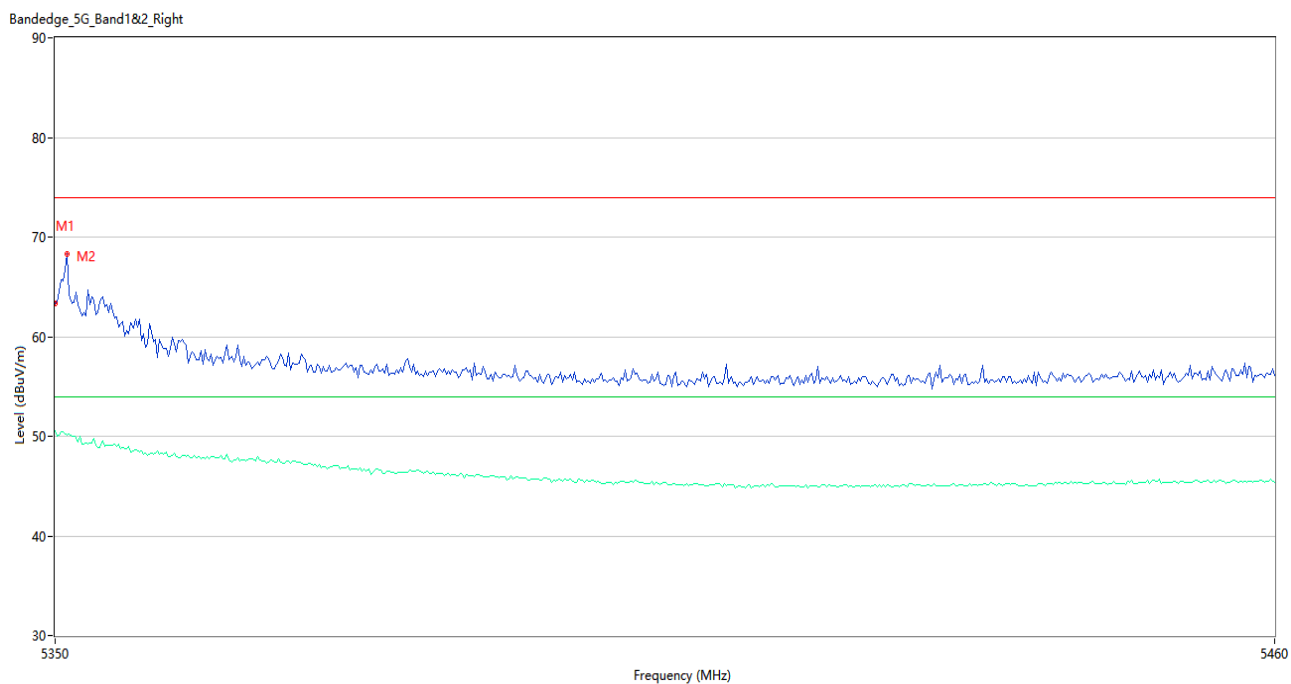
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	66.10	2.52	74.0	7.90	Peak	104.00	400	Horizontal	Pass
1**	5350.000	51.01	2.52	54.0	2.99	AV	104.00	400	Horizontal	Pass
2	5352.200	69.42	2.52	74.0	4.58	Peak	101.00	400	Horizontal	Pass
2**	5352.200	50.44	2.52	54.0	3.56	AV	101.00	400	Horizontal	Pass
3	5350.367	66.06	2.52	74.0	7.94	Peak	98.00	100	Horizontal	Pass
3**	5350.367	51.29	2.52	54.0	2.71	AV	98.00	100	Horizontal	Pass

U-NII-2A 11n20 CH52



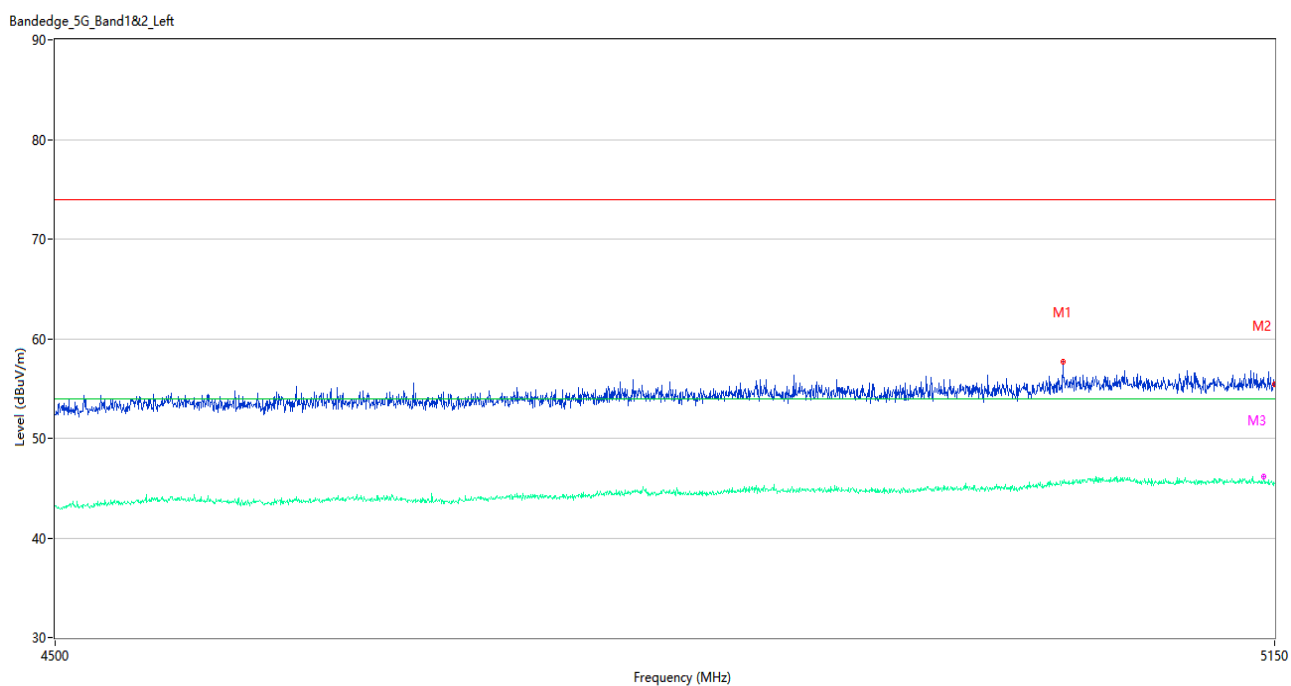
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5137.000	56.99	2.49	74.0	17.01	Peak	349.00	400	Horizontal	Pass
1**	5137.000	45.63	2.49	54.0	8.37	AV	349.00	400	Horizontal	Pass
2	5150.000	54.77	2.46	74.0	19.23	Peak	227.00	100	Horizontal	Pass
2**	5150.000	45.52	2.46	54.0	8.48	AV	227.00	100	Horizontal	Pass
3	5067.775	55.92	2.66	74.0	18.08	Peak	38.00	150	Horizontal	Pass
3**	5067.775	46.18	2.66	54.0	7.82	AV	38.00	150	Horizontal	Pass

U-NII-2A 11n20 CH64



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	63.37	2.52	74.0	10.63	Peak	96.00	400	Horizontal	Pass
1**	5350.000	50.51	2.52	54.0	3.49	AV	96.00	400	Horizontal	Pass
2	5351.100	68.30	2.53	74.0	5.70	Peak	98.00	200	Horizontal	Pass
2**	5351.100	50.08	2.53	54.0	3.92	AV	98.00	200	Horizontal	Pass

U-NII-2A 11n40 CH54



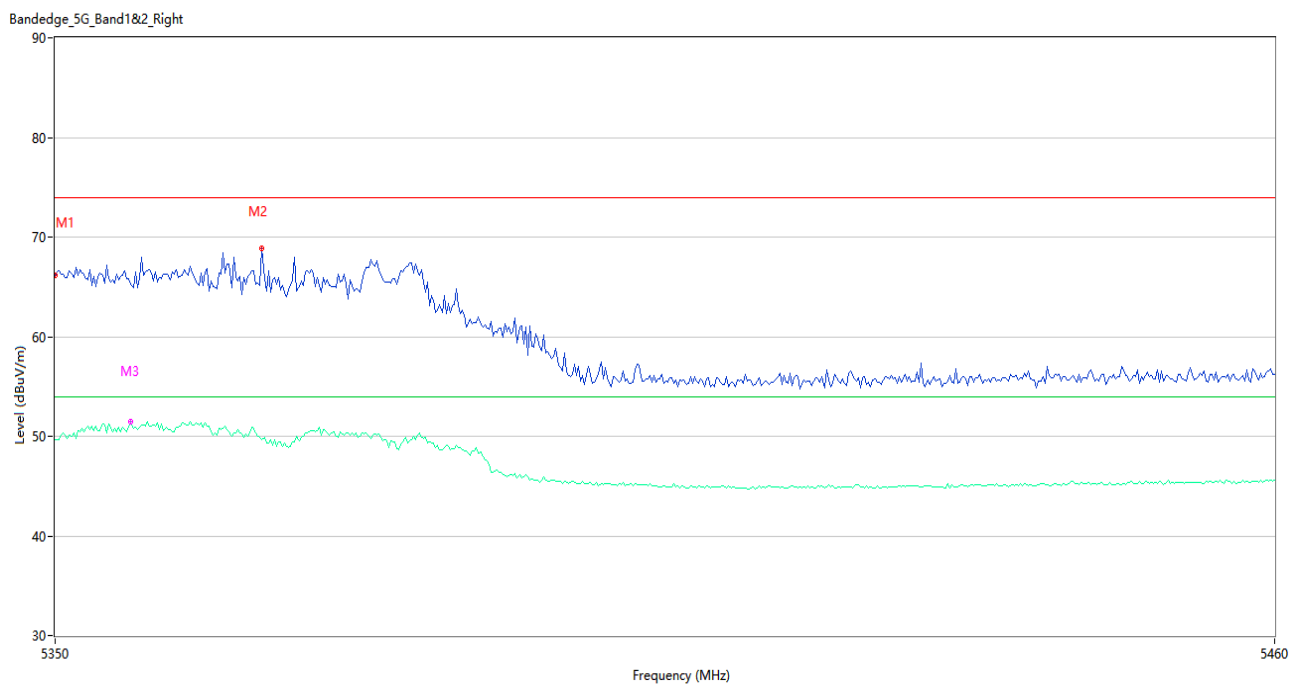
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5030.725	57.69	2.67	74.0	16.31	Peak	264.00	200	Horizontal	Pass
1**	5030.725	45.60	2.67	54.0	8.40	AV	264.00	200	Horizontal	Pass
2	5150.000	55.46	2.46	74.0	18.54	Peak	358.00	100	Horizontal	Pass
2**	5150.000	45.53	2.46	54.0	8.47	AV	358.00	100	Horizontal	Pass
3	5143.825	56.05	2.50	74.0	17.95	Peak	259.00	100	Horizontal	Pass
3**	5143.825	46.19	2.50	54.0	7.81	AV	259.00	100	Horizontal	Pass

U-NII-2A 11n40 CH62



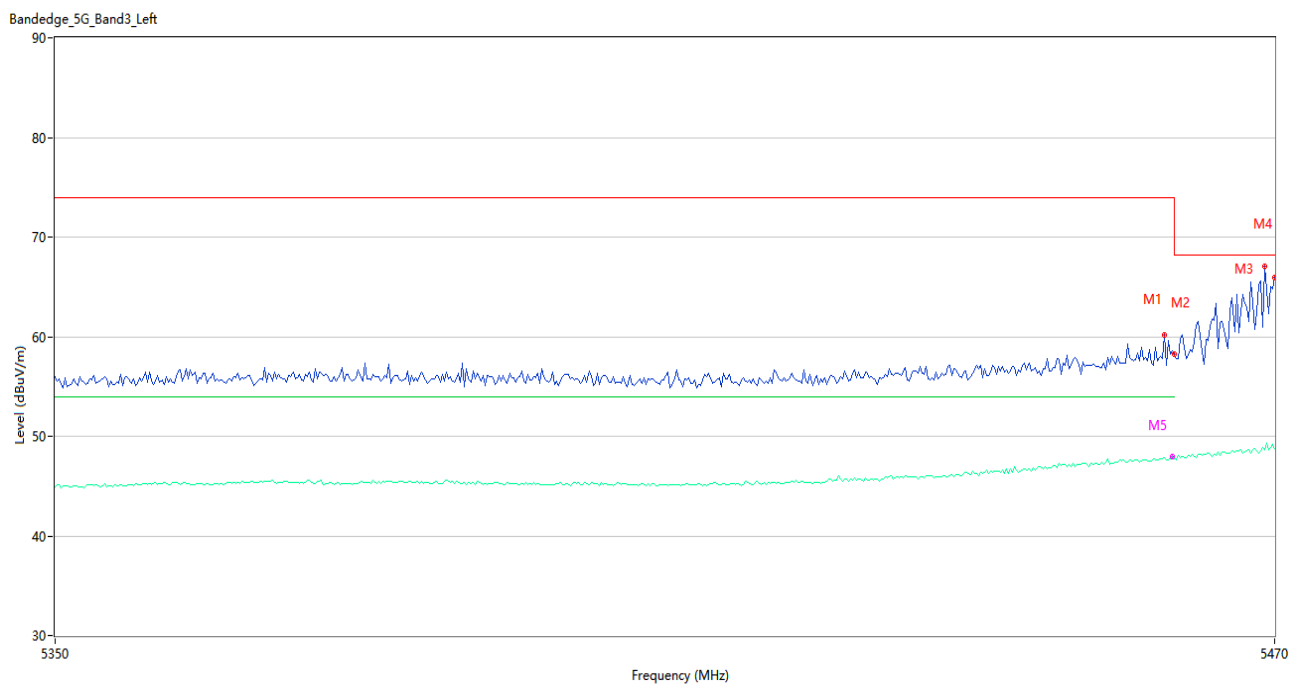
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	66.21	2.52	74.0	7.79	Peak	0.00	100	Vertical	Pass
1**	5350.000	51.60	2.52	54.0	2.40	AV	0.00	100	Vertical	Pass
2	5353.850	68.12	2.51	74.0	5.88	Peak	0.00	100	Vertical	Pass
2**	5353.850	50.46	2.51	54.0	3.54	AV	0.00	100	Vertical	Pass

U-NII-2A 11ac80 CH58



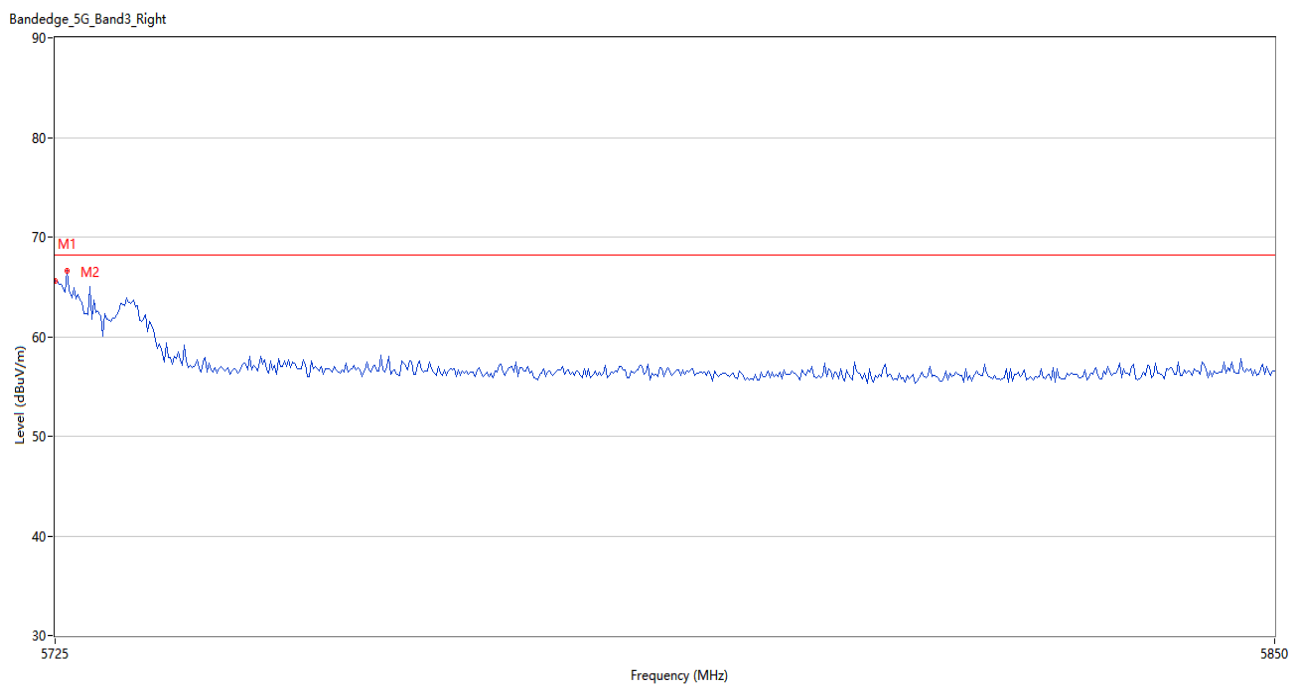
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	66.16	2.52	74.0	7.84	Peak	104.00	200	Horizontal	Pass
1**	5350.000	49.71	2.52	54.0	4.29	AV	104.00	200	Horizontal	Pass
2	5368.517	68.83	2.56	74.0	5.17	Peak	101.00	200	Horizontal	Pass
2**	5368.517	49.66	2.56	54.0	4.34	AV	101.00	200	Horizontal	Pass
3	5356.783	65.28	2.47	74.0	8.72	Peak	101.00	400	Horizontal	Pass
3**	5356.783	51.53	2.47	54.0	2.47	AV	101.00	400	Horizontal	Pass

U-NII-2C 11a CH100



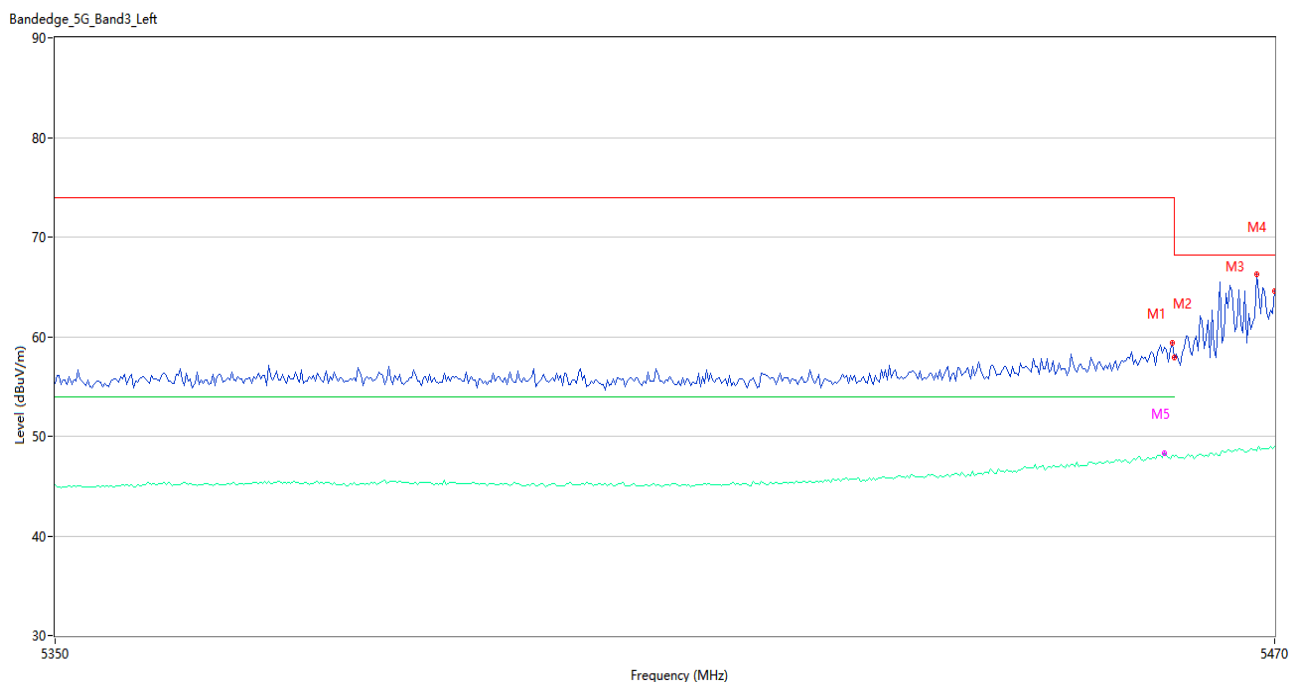
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5459.000	60.22	2.68	74.0	13.78	Peak	111.00	200	Horizontal	Pass
1**	5459.000	47.83	2.68	54.0	6.17	AV	111.00	200	Horizontal	Pass
2	5460.000	58.24	2.67	74.0	15.76	Peak	86.00	200	Horizontal	Pass
2**	5460.000	47.79	2.67	54.0	6.21	AV	86.00	200	Horizontal	Pass
3	5469.000	67.10	2.83	68.2	1.10	Peak	91.00	400	Horizontal	Pass
3**	5469.000	48.62	2.83	--	--	AV	91.00	400	Horizontal	N/A
4	5470.000	65.90	2.87	68.2	2.30	Peak	99.00	200	Horizontal	Pass
4**	5470.000	48.77	2.87	--	--	AV	99.00	200	Horizontal	N/A

U-NII-2C 11a CH140



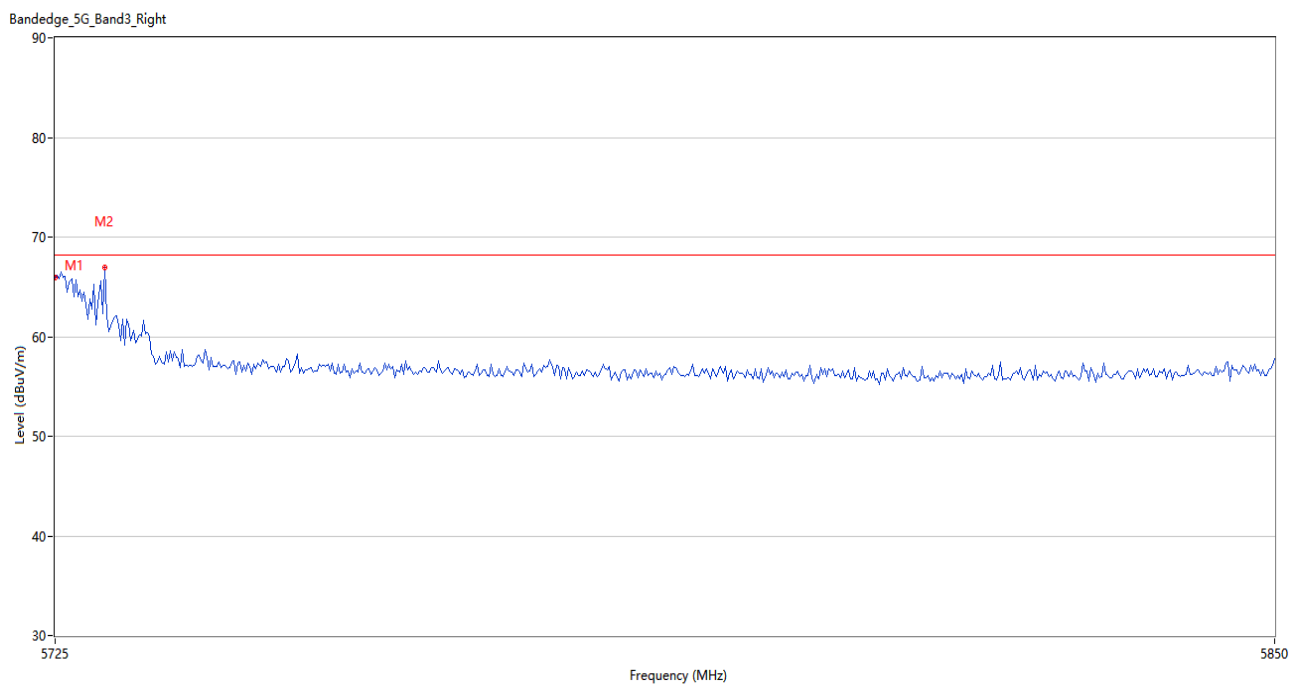
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	65.56	1.87	68.2	2.64	Peak	81.00	200	Horizontal	Pass
2	5726.250	66.59	1.95	68.2	1.61	Peak	101.00	200	Horizontal	Pass

U-NII-2C 11n20 CH100



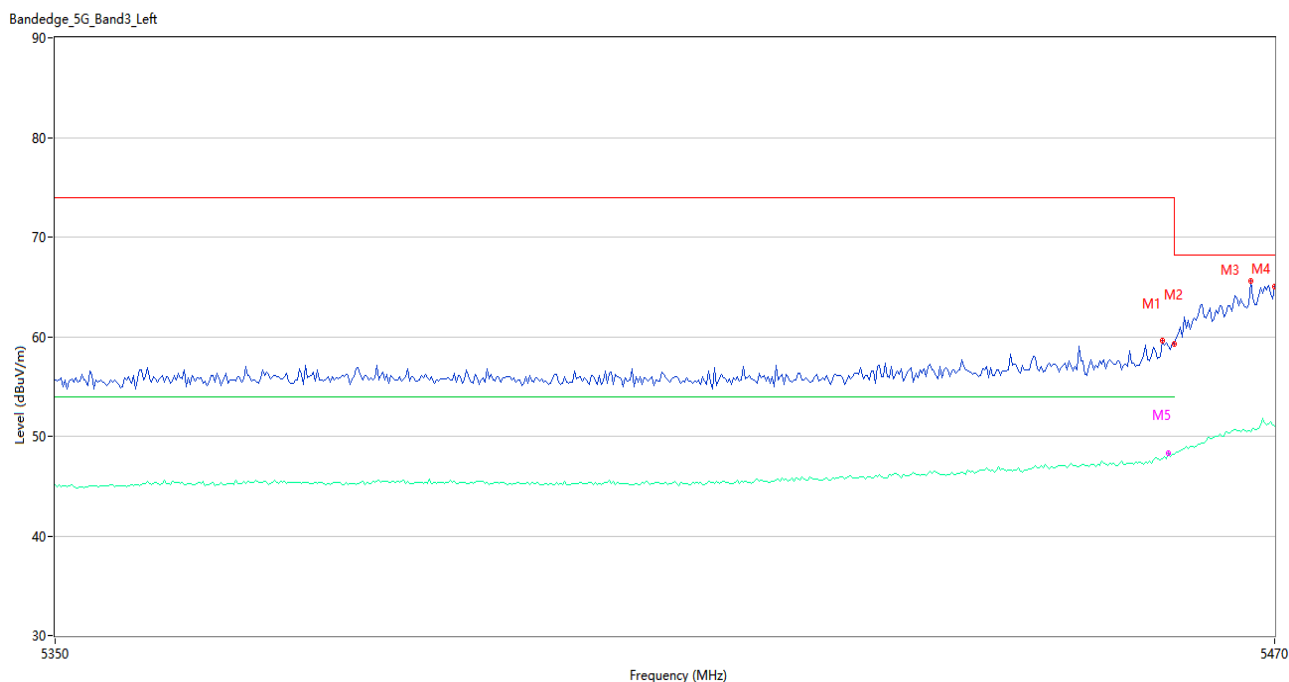
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5459.800	59.41	2.67	74.0	14.59	Peak	93.00	400	Horizontal	Pass
1**	5459.800	48.07	2.67	54.0	5.93	AV	93.00	400	Horizontal	Pass
2	5460.000	57.93	2.67	74.0	16.07	Peak	81.00	100	Horizontal	Pass
2**	5460.000	47.98	2.67	54.0	6.02	AV	81.00	100	Horizontal	Pass
3	5468.200	66.22	2.79	68.2	1.98	Peak	103.00	300	Horizontal	Pass
3**	5468.200	48.49	2.79	--	--	AV	103.00	300	Horizontal	N/A
4	5470.000	64.57	2.87	68.2	3.63	Peak	64.00	200	Horizontal	Pass
4**	5470.000	48.99	2.87	--	--	AV	64.00	200	Horizontal	N/A
5	5459.000	58.93	2.68	74.0	15.07	Peak	70.00	200	Horizontal	Pass
5**	5459.000	48.32	2.68	54.0	5.68	AV	70.00	200	Horizontal	Pass

U-NII-2C 11n20 CH140



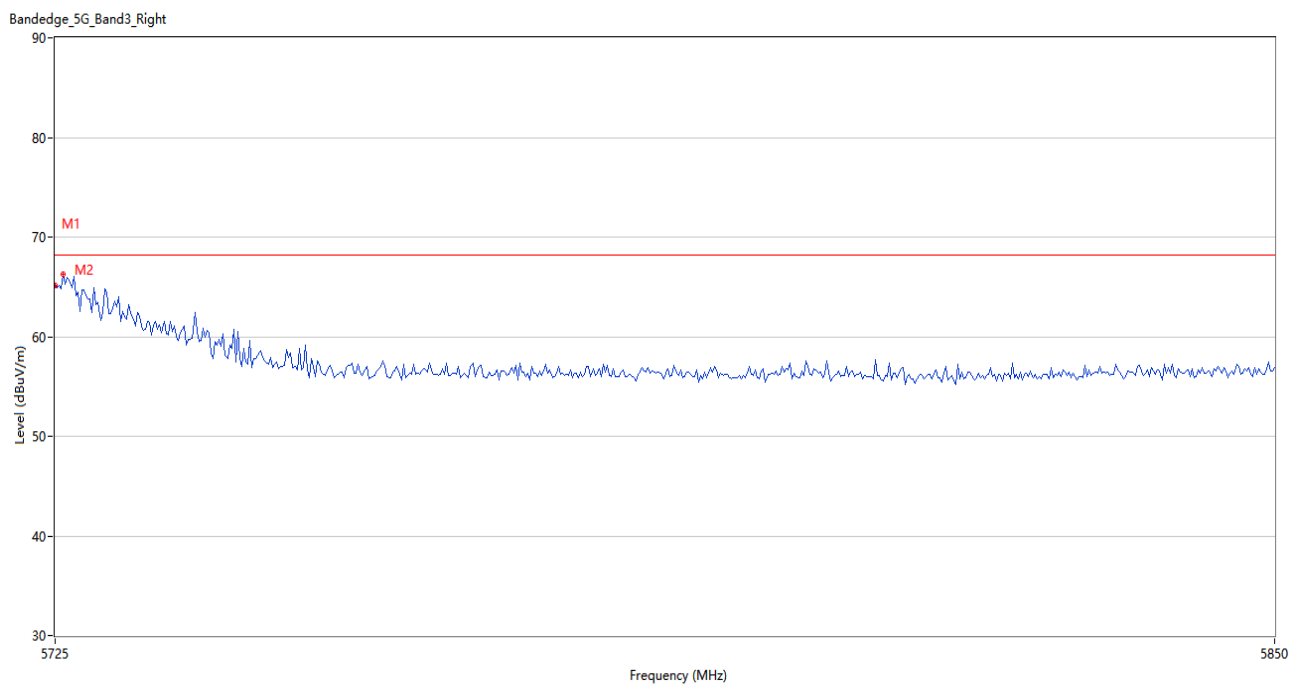
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	65.99	1.87	68.2	2.21	Peak	100.00	200	Horizontal	Pass
2	5730.000	66.98	1.83	68.2	1.22	Peak	101.00	400	Horizontal	Pass

U-NII-2C 11n40 CH102



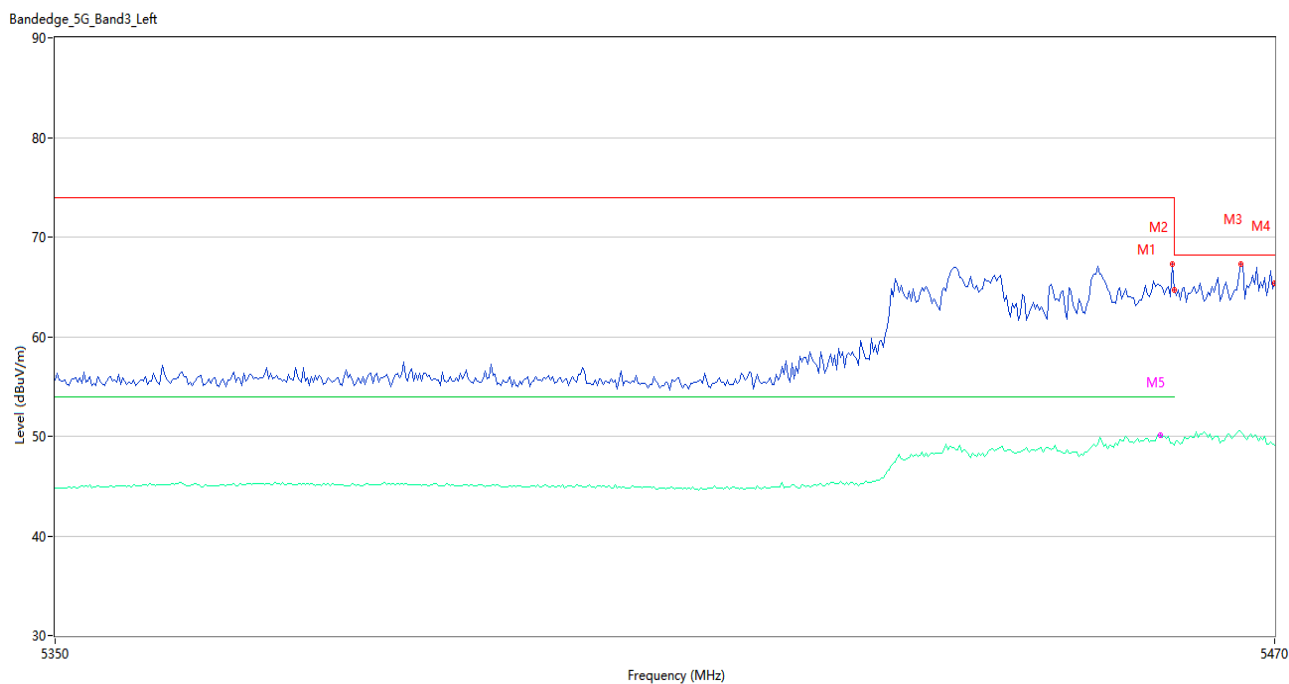
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5458.800	59.58	2.67	74.0	14.42	Peak	91.00	100	Horizontal	Pass
1**	5458.800	47.74	2.67	54.0	6.26	AV	91.00	100	Horizontal	Pass
2	5460.000	59.28	2.67	74.0	14.72	Peak	83.00	300	Horizontal	Pass
2**	5460.000	48.19	2.67	54.0	5.81	AV	83.00	300	Horizontal	Pass
3	5467.600	65.60	2.77	68.2	2.60	Peak	95.00	300	Horizontal	Pass
3**	5467.600	50.41	2.77	--	--	AV	95.00	300	Horizontal	N/A
4	5470.000	65.03	2.87	68.2	3.17	Peak	111.00	200	Horizontal	Pass
4**	5470.000	51.02	2.87	--	--	AV	111.00	200	Horizontal	N/A
5	5459.400	59.04	2.68	74.0	14.96	Peak	104.00	200	Horizontal	Pass
5**	5459.400	48.26	2.68	54.0	5.74	AV	104.00	200	Horizontal	Pass

U-NII-2C 11n40 CH134



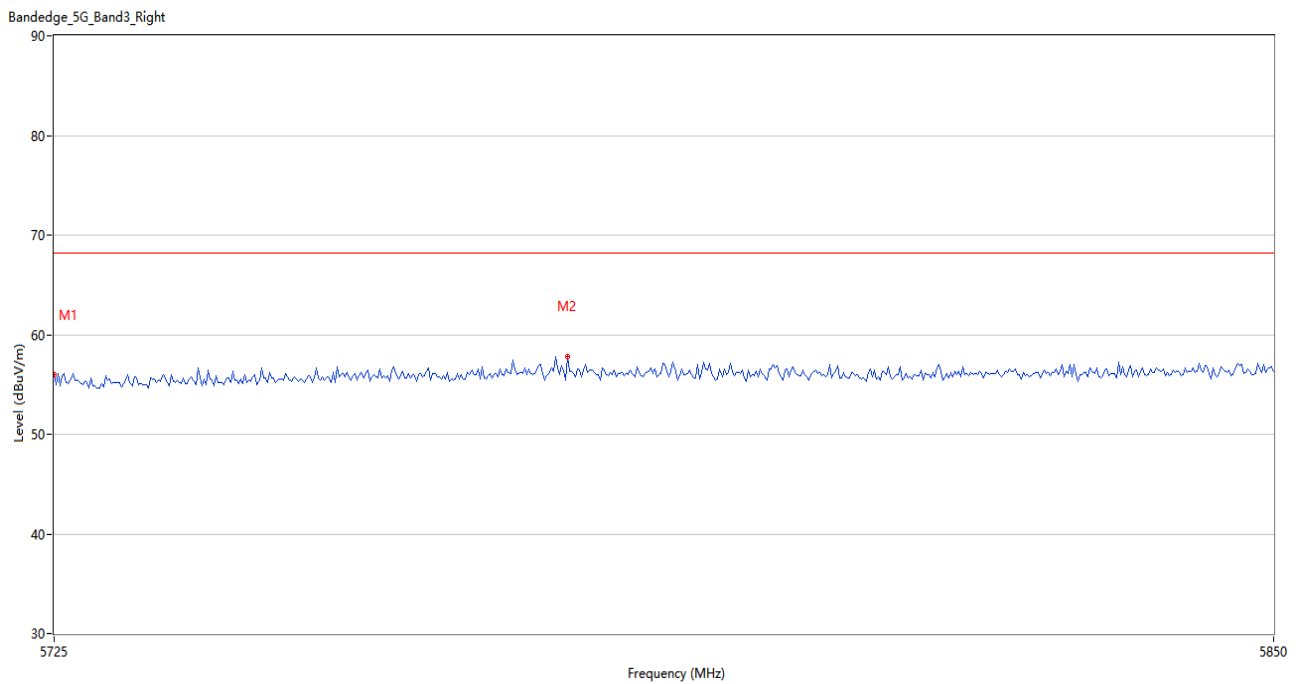
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	65.11	1.87	68.2	3.09	Peak	96.00	100	Horizontal	Pass
2	5725.834	66.32	1.92	68.2	1.88	Peak	90.00	400	Horizontal	Pass

U-NII-2C 11ac80 CH106



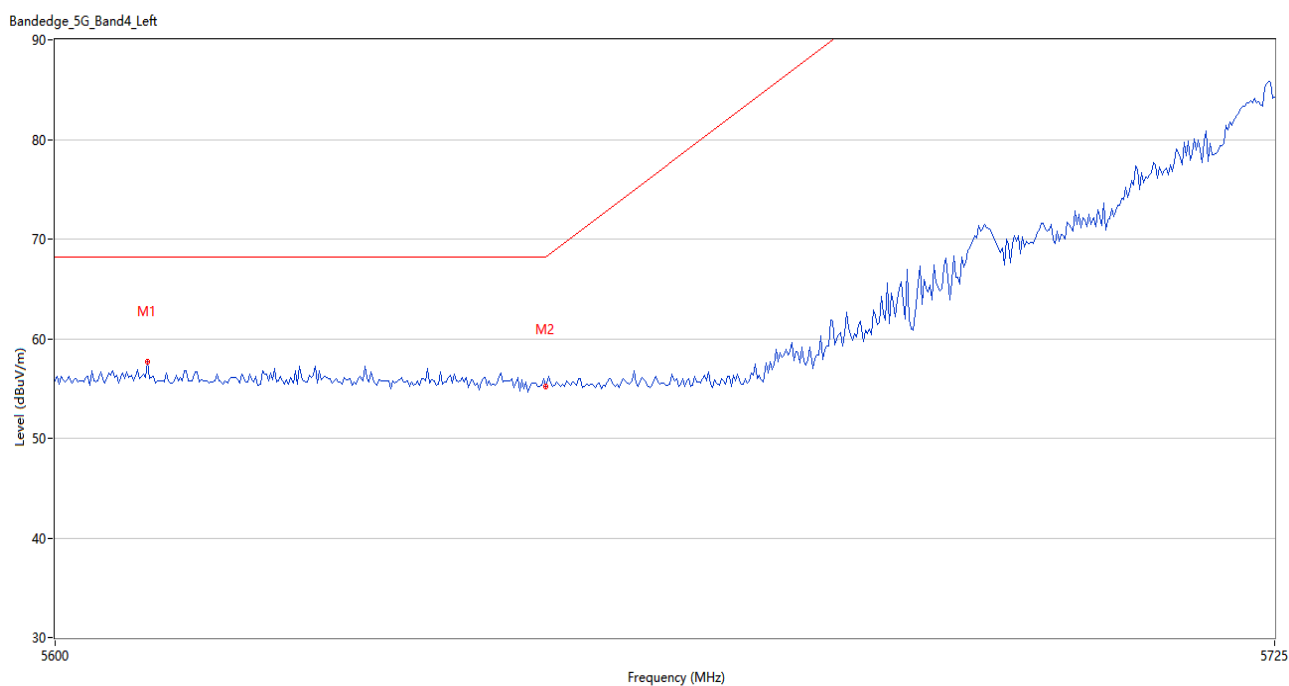
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5459.800	67.30	2.67	74.0	6.70	Peak	110.00	200	Horizontal	Pass
1**	5459.800	49.29	2.67	54.0	4.71	AV	110.00	200	Horizontal	Pass
2	5460.000	64.67	2.67	74.0	9.33	Peak	117.00	300	Horizontal	Pass
2**	5460.000	49.13	2.67	54.0	4.87	AV	117.00	300	Horizontal	Pass
3	5466.600	67.30	2.82	68.2	0.90	Peak	117.00	400	Horizontal	Pass
3**	5466.600	50.47	2.82	--	--	AV	117.00	400	Horizontal	N/A
4	5470.000	65.35	2.87	68.2	2.85	Peak	110.00	100	Horizontal	Pass
4**	5470.000	49.04	2.87	--	--	AV	110.00	100	Horizontal	N/A
5	5458.600	65.19	2.66	74.0	8.81	Peak	93.00	150	Horizontal	Pass
5**	5458.600	50.08	2.66	54.0	3.92	AV	93.00	150	Horizontal	Pass

U-NII-2C 11ac80 CH122



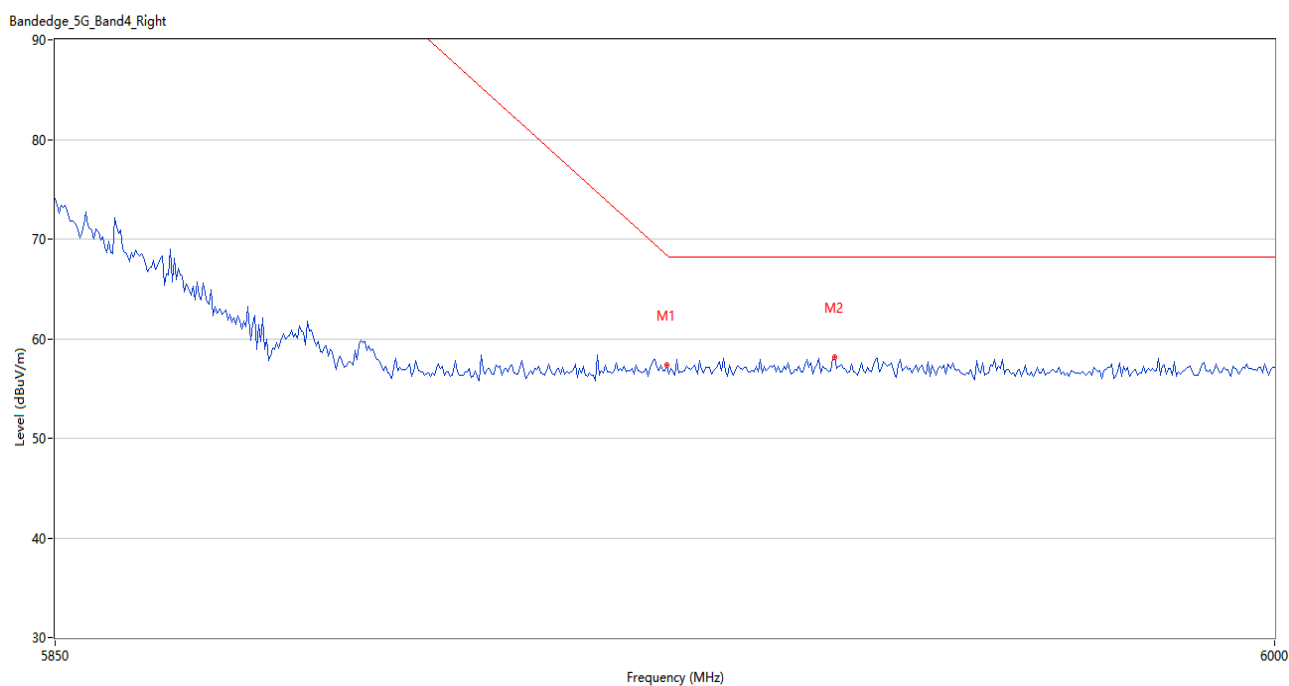
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	56.00	1.87	68.2	12.20	Peak	178.00	100	Horizontal	Pass
2	5777.291	57.85	2.79	68.2	10.35	Peak	93.00	400	Horizontal	Pass

U-NII-3 11a CH149



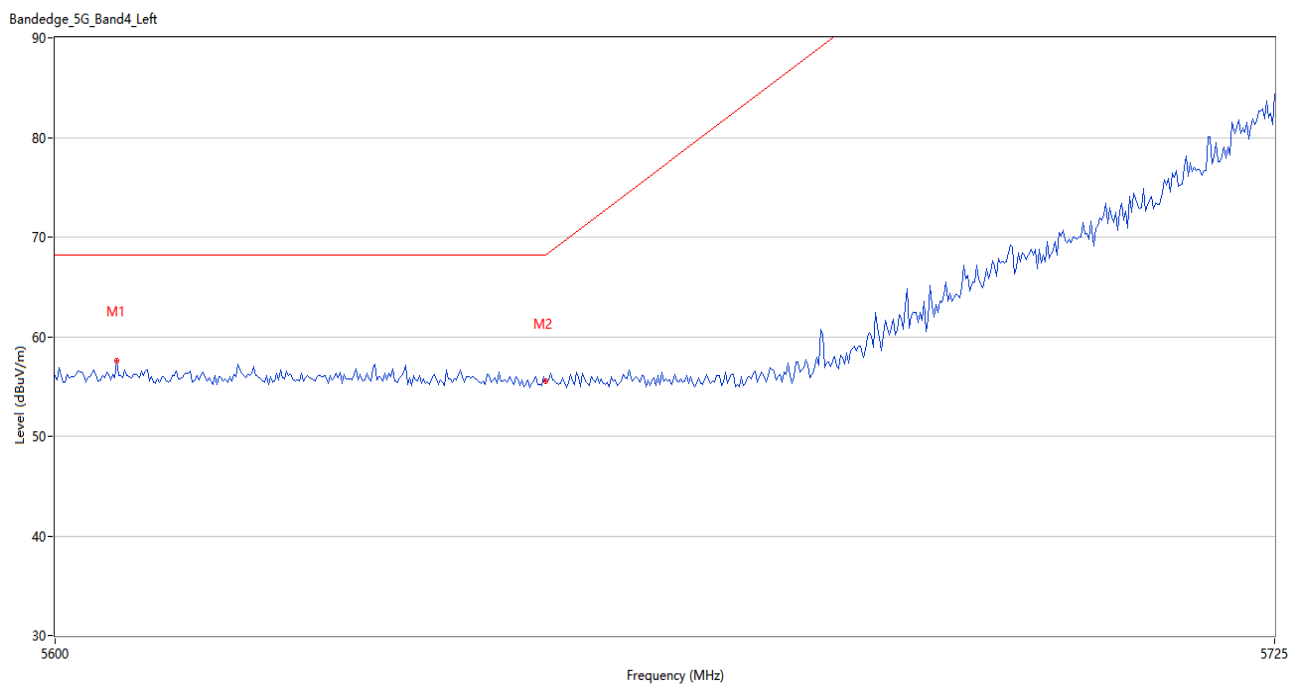
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5609.375	57.71	2.57	68.2	10.49	Peak	60.00	400	Horizontal	Pass
2	5650.000	55.21	2.28	68.2	12.99	Peak	34.00	400	Horizontal	Pass

U-NII-3 11a CH165



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	57.34	3.75	68.4	11.06	Peak	88.00	400	Horizontal	Pass
2	5945.500	58.09	3.77	68.2	10.11	Peak	285.00	300	Horizontal	Pass

U-NII-3 11n20 CH149



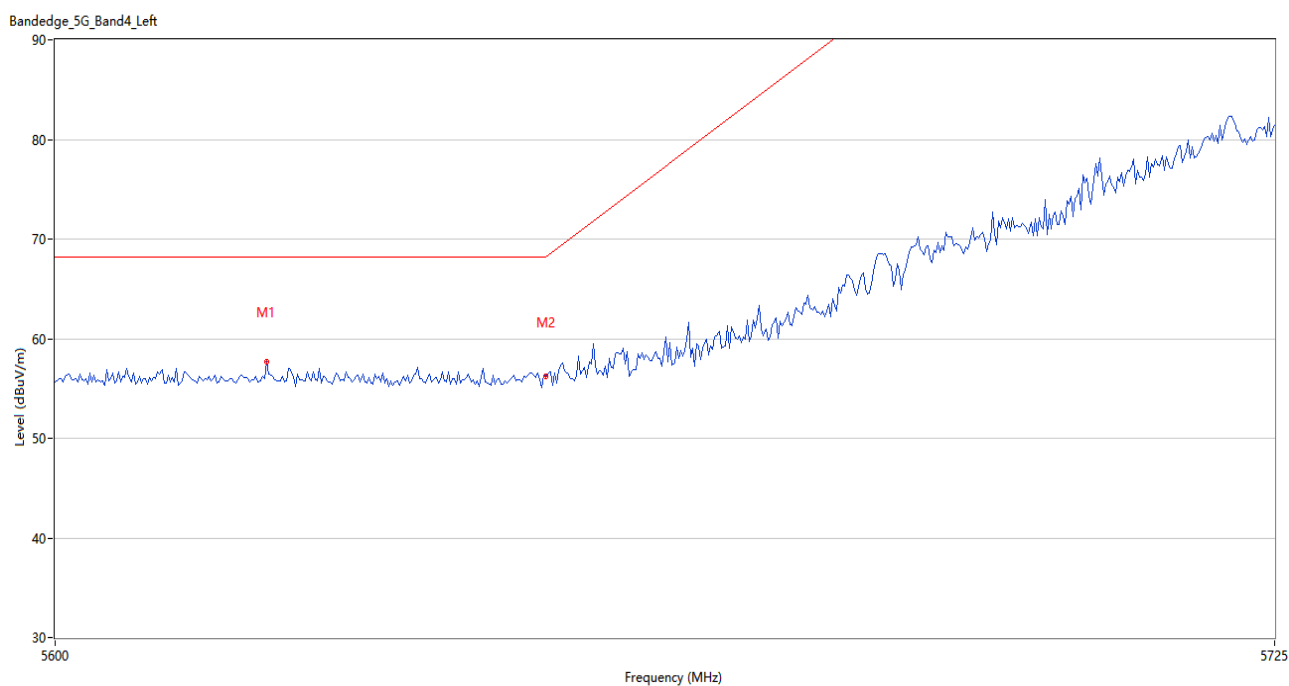
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5606.250	57.55	2.66	68.2	10.65	Peak	88.00	300	Horizontal	Pass
2	5650.000	55.55	2.28	68.2	12.65	Peak	24.00	300	Horizontal	Pass

U-NII-3 11n20 CH165



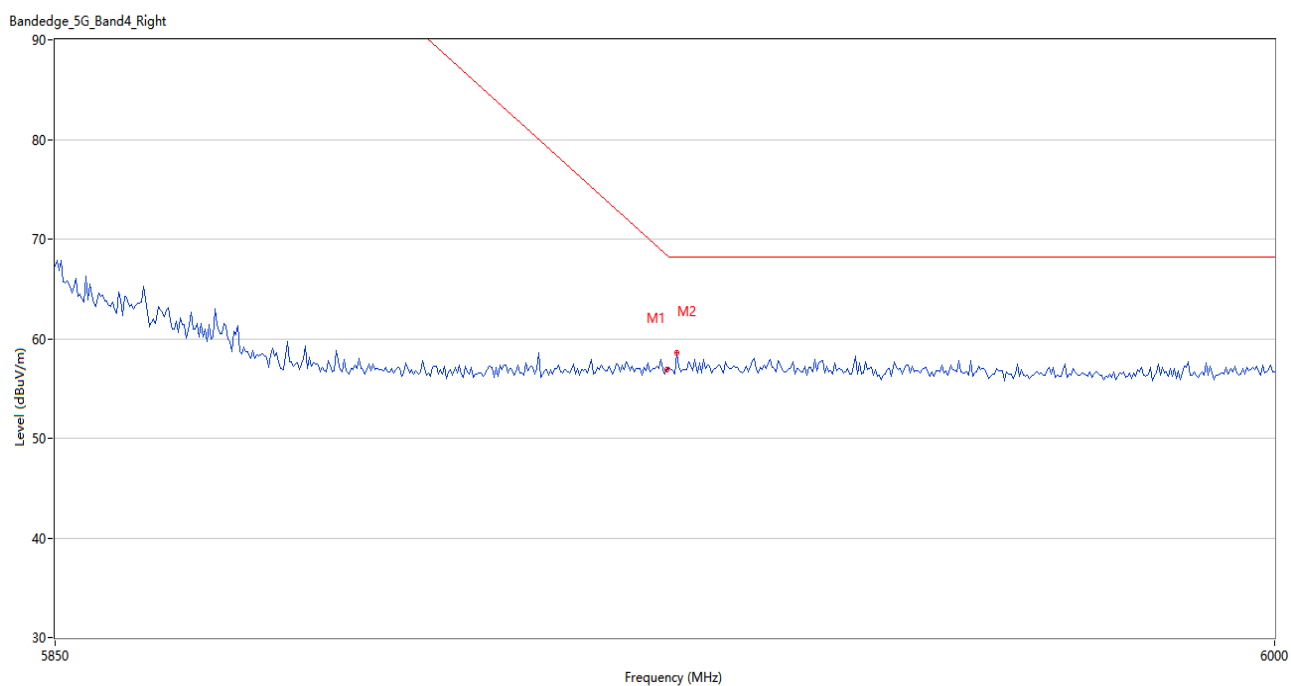
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	57.52	3.75	68.4	10.88	Peak	94.00	400	Horizontal	Pass
2	5958.000	58.41	3.64	68.2	9.79	Peak	71.00	200	Horizontal	Pass

U-NII-3 11n40 CH151



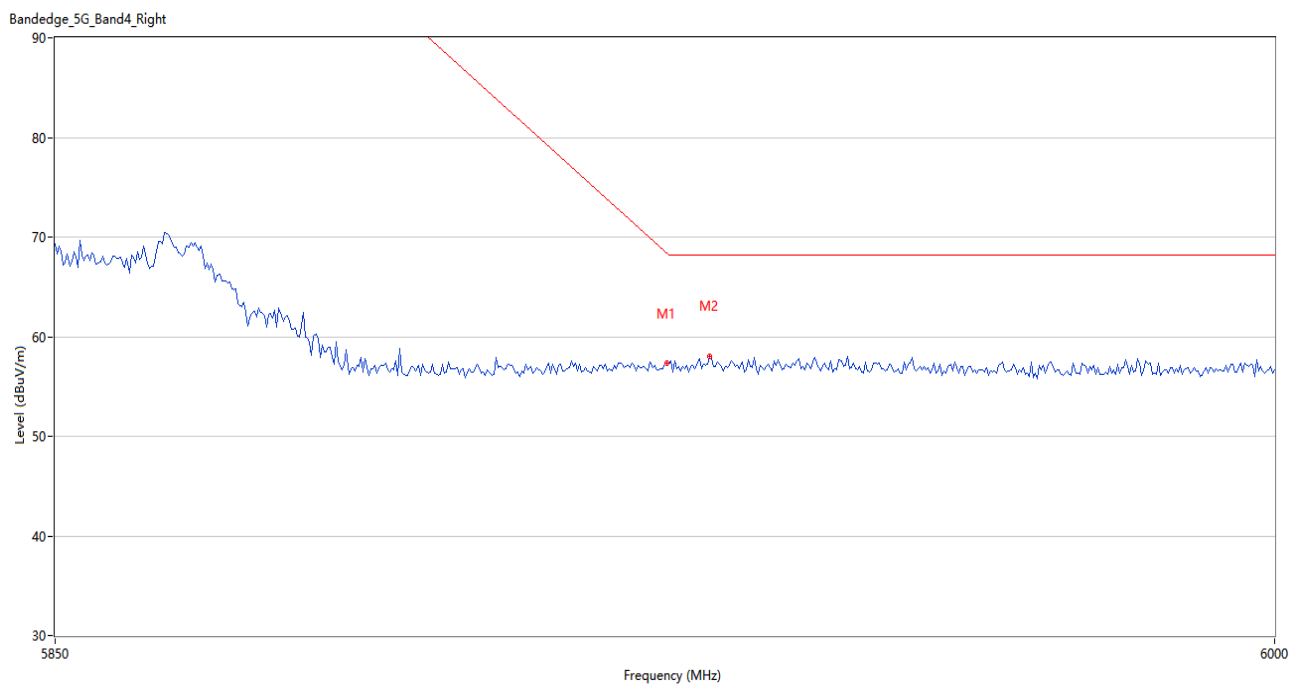
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5621.458	57.67	2.52	68.2	10.53	Peak	298.00	300	Horizontal	Pass
2	5650.000	56.22	2.28	68.2	11.98	Peak	102.00	200	Horizontal	Pass

U-NII-3 11n40 CH159



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	56.94	3.75	68.4	11.46	Peak	88.00	200	Horizontal	Pass
2	5926.000	58.55	3.67	68.2	9.65	Peak	199.00	100	Horizontal	Pass

U-NII-3 11ac80 CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	57.30	3.75	68.4	11.10	Peak	175.00	100	Horizontal	Pass
2	5930.000	58.07	3.81	68.2	10.13	Peak	67.00	300	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ24A0252-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ24A0252-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ24A0252-AI.PDF”.

Statement

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

--END OF REPORT--