

TEST REPORT

Applicant: Shanghai Xiangcheng Communication Technology Co.,Ltd
Address: 6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai
Equipment Type: P18 Smart Desktop Terminal
Model Name: P18
Brand Name: KOZEN
FCC ID: 2A2UU-P1861
Test Standard: 47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date: Jul. 30, 2024
Test Date: Aug. 14, 2024 - Oct. 11, 2024
Date of Issue: Nov. 22, 2024

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

Tested by: Hai Su

Checked by: Zhang Yanqing

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(Technical Director)

Hai Su

Zhang Yanqing

Chen Zidong

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Nov. 08, 2024</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Nov. 22, 2024</u>	<u>Modify the EUT Name in Section 2.3</u>
		<u>Modify the Brand Name</u>
		<u>The original report is invalid.</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

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.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shanghai Xiangcheng Communication Technology Co.,Ltd
Address	6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai

2.2 Manufacturer Information

Manufacturer	Shanghai Xiangcheng Communication Technology Co.,Ltd
Address	6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai

2.3 General Description for Equipment under Test (EUT)

EUT Name	P18 Smart Desktop Terminal
Model Name Under Test	P18
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	SC-TJ2410083-S01 SC-TJ2410083-S03
Hardware Version	P18714071110000
Software Version	p1861_tekpal_a3
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS 850/1900MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12 LTE TDD Band 38/41(120M) Bluetooth(BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) 5.8G SRD,GPS, GLONASS, BDS,Galileo,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
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Modulation technology	OFDM
Modulation Type	64QAM, 16QAM, BPSK, QPSK
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 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: 9.78 dBm U-NII-2A: 9.92 dBm U-NII-2C: 9.49 dBm U-NII-3: 9.49 dBm
Antenna Type	PIFA Antenna
Antenna Gain	3 dBi(In test items related to antenna gain, the final results reflect this figure. This value is provided by the applicant.)
About the Product	The equipment is tablet PC, intended for used with information technology equipment.

2.5 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	58	5290
44	5220	54	5270	106	5530
48	5240	62	5310	122	5610
52	5260	102	5510	138	5690
56	5280	110	5550	155	5775
60	5300	118	5590		
64	5320	126	5630		
100	5500	134	5670		
104	5520	142	5710		
108	5540	151	5755		
112	5560	159	5795		
116	5580				
136	5680				
140	5700				
144	5720				
149	5745				
153	5765				
157	5785				
161	5805				
165	5825				

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

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

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

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
100	Low	5500	144	--	5720
116	Mid	5580	149	Low	5745
140	High	5700	157	Mid	5785
144	--	5720	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	142	--	5710
118	Mid	5590	151	Low	5755
134	High	5670	159	High	5795
142	--	5710			

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	138	--	5690
122	High	5610	155	Mid	5775
138	--	5690			

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

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	144/140/116/100	165/157/149/144
	11n(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11ac(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11ac(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138
6 dB bandwidth	11a	6	BPSK	N/A	N/A	N/A	165/157/149/144
	11n(20 MHz)	6.5		N/A	N/A	N/A	165/157/149/144
	11n(40 MHz)	13.5		N/A	N/A	N/A	159/151/142
	11ac(20 MHz)	6.5		N/A	N/A	N/A	165/157/149/144
	11ac(40 MHz)	13.5		N/A	N/A	N/A	159/151/142
	11ac(80 MHz)	29.3		N/A	N/A	N/A	155/138
Power Spectral Density	11a	6	BPSK	48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11ac(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11ac(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138
Band Edge (Restricted-band)	11a	6	BPSK	48/36	64/52	144/140/100	165/149/144
	11n(20 MHz)	6.5		48/36	64/52	144/140/100	165/149/144
	11n(40 MHz)	13.5		46/38	62/54	142/134/102	159/151/142
	11ac(20 MHz)	6.5		48/36	64/52	144/140/100	165/149/144
	11ac(40 MHz)	13.5		46/38	62/54	142/134/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	51% to 57%	
Atmospheric Pressure	101 kPa	
Temperature	NT (Normal Temperature)	+22.1°C to +24.6°C
Working Voltage of the EUT	NV (Normal Voltage)	3.8 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 4.5.1
BL410E	BALUN	V21.919	N/A	The section 4.5.3&4.5.4&4.5.5

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	0.408 dB
Power Spectral Density, conducted	1.739 dB
Unwanted Emissions, conducted	1.738 dB
All emissions, radiated	4.568 dB
Temperature	0.82 °C
Humidity	4.08 %

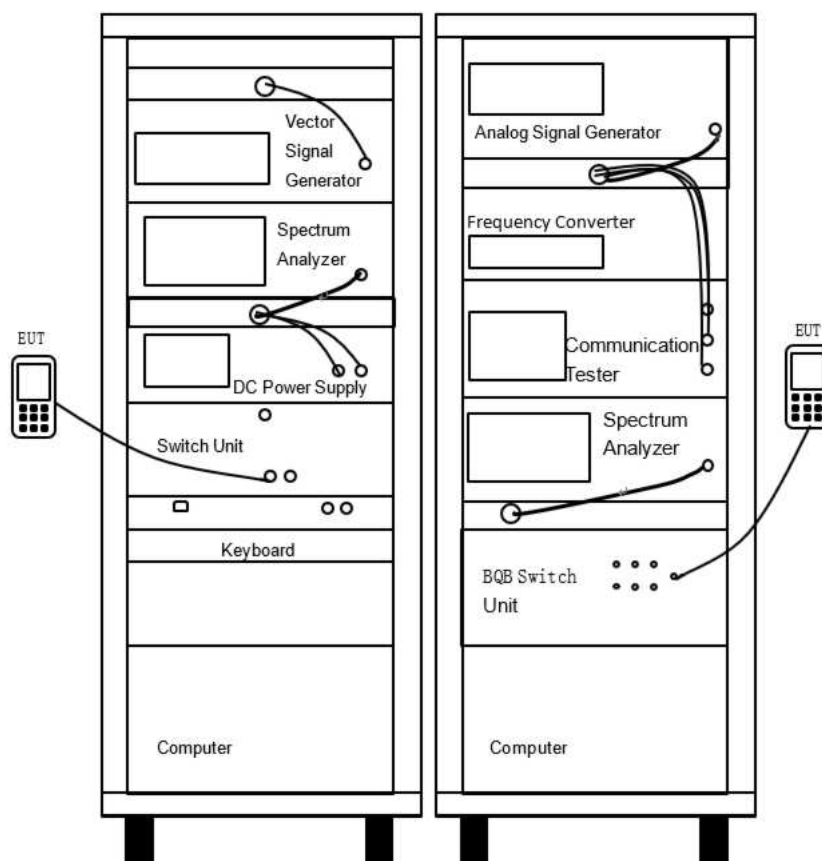
4.6 Description of Test Setup

4.6.1 For Antenna Port Test

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

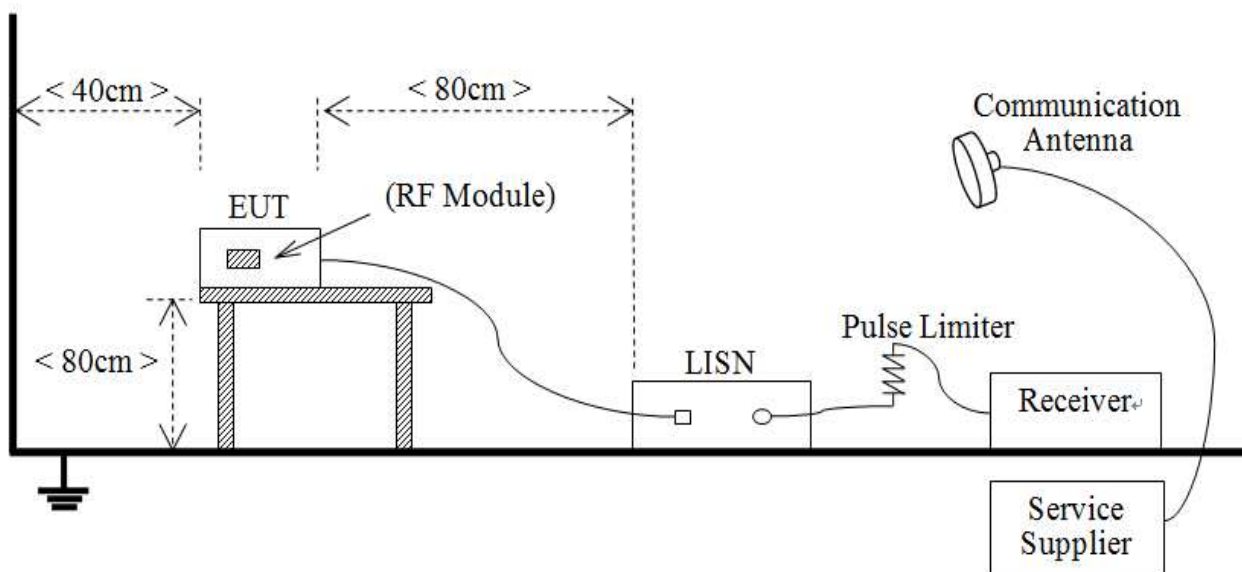
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



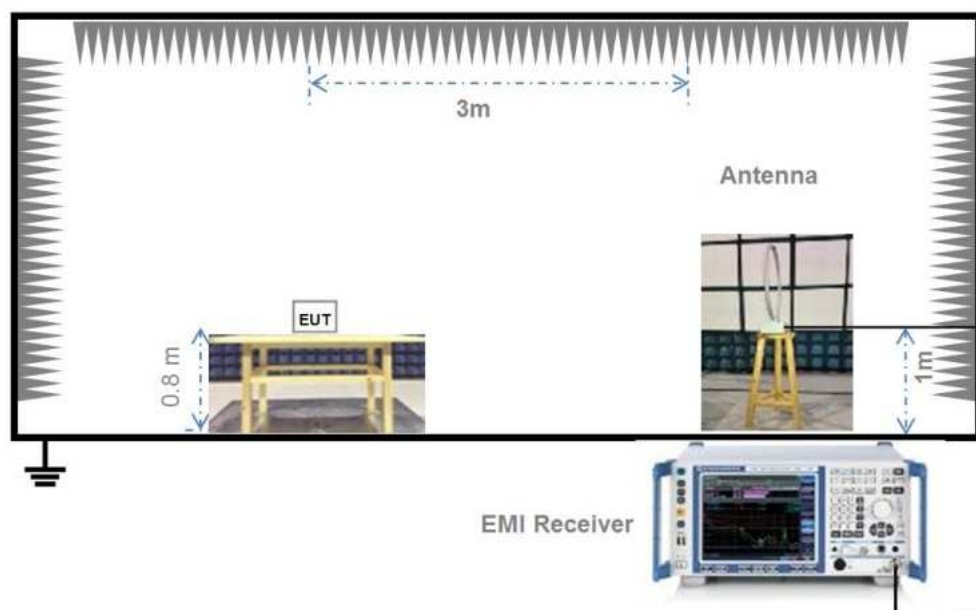
(Diagram 1)

4.6.2 For AC Power Supply Port Test



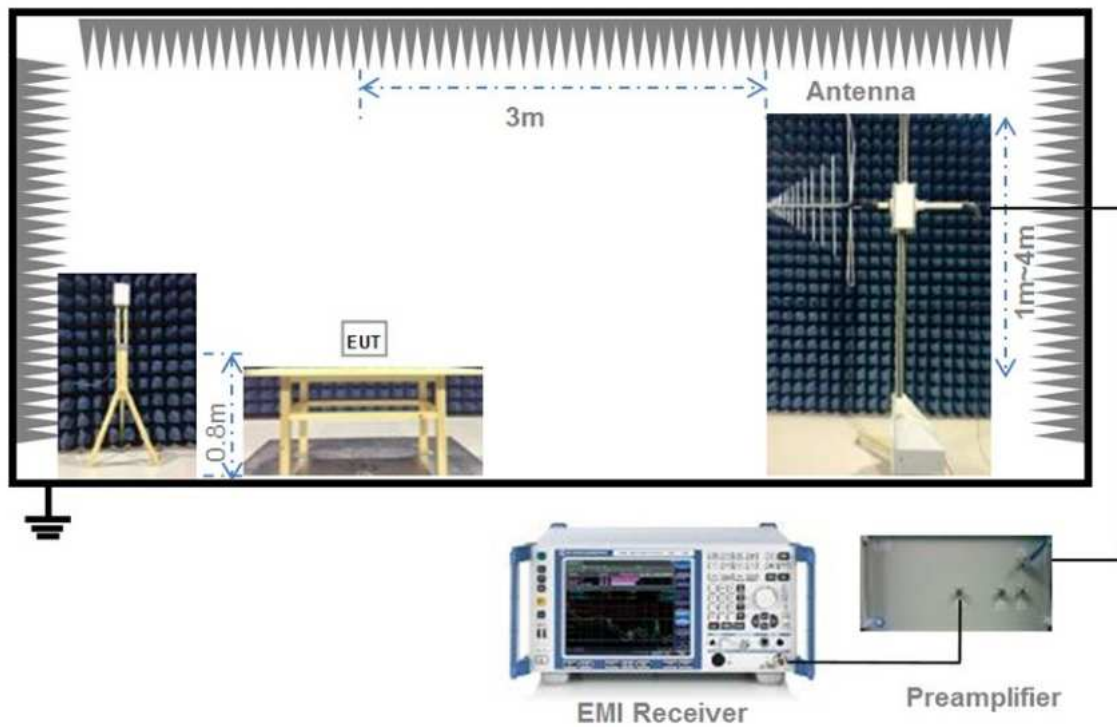
(Diagram 2)

4.6.3 For Radiated Test (Below 30 MHz)



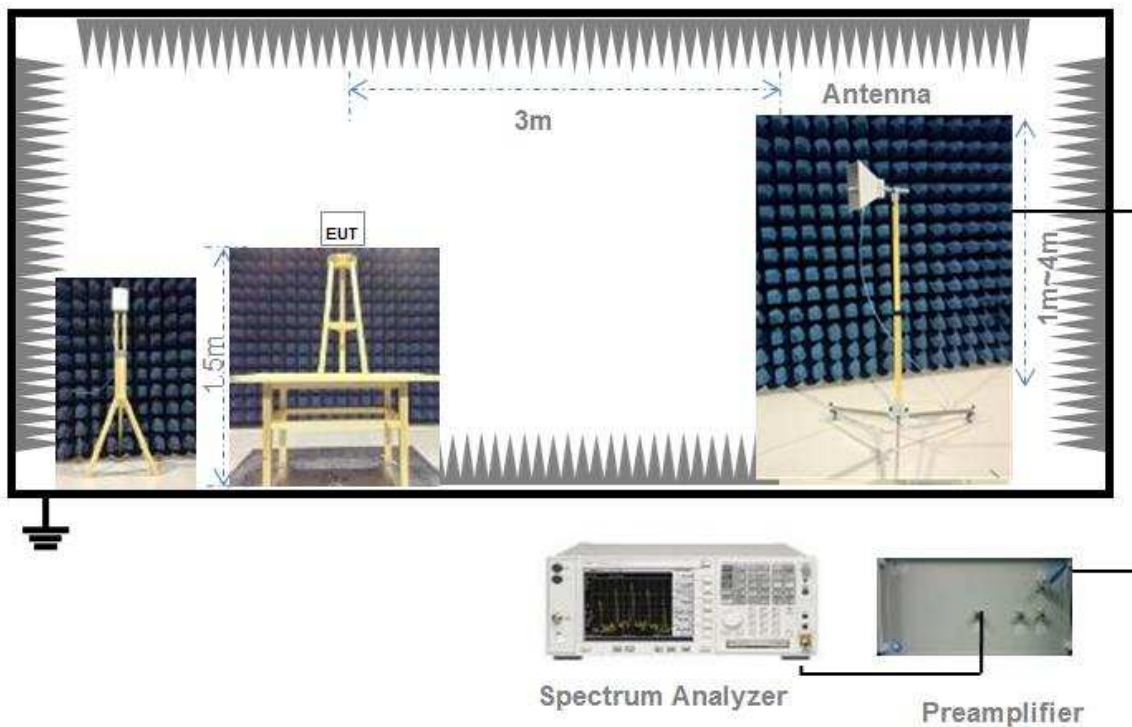
(Diagram 3)

4.6.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.6.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

RSS-247, 6.2

The maximum conducted output power shall not exceed:

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

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

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

The maximum peak conducted output power may be measured using a broadband Average RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.

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

5.2.3 Test Procedure

Emission bandwidth

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

Occupied Bandwidth

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

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

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

5.3.3 Test Procedure

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

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207, 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 4.5.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

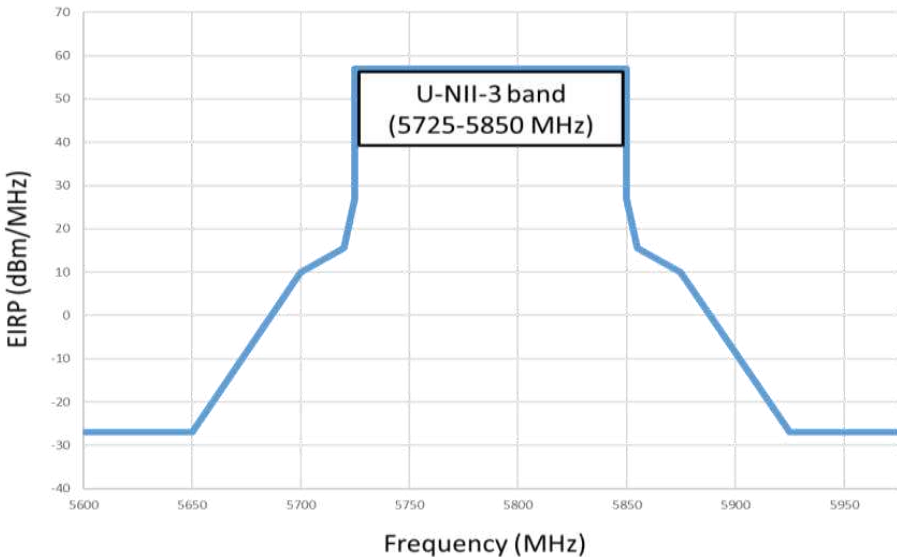
5.5.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

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

Note¹: The Limit for radiated test was performed according to FCC Part 15C

Note²: The tighter limit applies at the band edge.

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

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

5.5.2 Test Setup

The section 4.5.3-4.5.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the 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: 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	1.3930	1.4290	97.48%
11n (HT20)/11ac (VHT20)	1.3120	1.3470	97.40%
11n (HT40)/11ac (VHT40)	0.6517	0.6880	94.72%
11ac (VHT80)	0.3237	0.3587	90.24%

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	9.62	9.16	250	Pass
11a	CH44	9.58	9.08	250	Pass
11a	CH48	9.78	9.51	250	Pass
11n (HT20)	CH36	9.46	8.83	250	Pass
11n (HT20)	CH44	9.44	8.79	250	Pass
11n (HT20)	CH48	9.64	9.21	250	Pass
11n (HT40)	CH38	9.52	8.95	250	Pass
11n (HT40)	CH46	9.65	9.23	250	Pass
11ac (VHT20)	CH36	9.40	8.72	250	Pass
11ac (VHT20)	CH44	9.45	8.82	250	Pass
11ac (VHT20)	CH48	9.64	9.21	250	Pass
11ac (VHT40)	CH38	9.56	9.03	250	Pass
11ac (VHT40)	CH46	9.68	9.28	250	Pass
11ac (VHT80)	CH42	9.39	8.68	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	9.89	9.75	250	Pass
11a	CH60	9.92	9.82	250	Pass
11a	CH64	9.79	9.53	250	Pass
11n (HT20)	CH52	9.81	9.58	250	Pass
11n (HT20)	CH60	9.80	9.55	250	Pass
11n (HT20)	CH64	9.65	9.23	250	Pass
11n (HT40)	CH54	9.85	9.66	250	Pass
11n (HT40)	CH62	9.81	9.57	250	Pass
11ac (VHT20)	CH52	9.82	9.60	250	Pass
11ac (VHT20)	CH60	9.80	9.56	250	Pass
11ac (VHT20)	CH64	9.65	9.23	250	Pass
11ac (VHT40)	CH54	9.86	9.67	250	Pass
11ac (VHT40)	CH62	9.85	9.65	250	Pass
11ac (VHT80)	CH58	9.74	9.41	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	9.49	8.89	250	Pass
11a	CH116	9.31	8.53	250	Pass
11a	CH140	8.98	7.91	250	Pass
11n (HT20)	CH100	9.37	8.65	250	Pass
11n (HT20)	CH116	9.24	8.40	250	Pass
11n (HT20)	CH140	8.84	7.66	250	Pass
11n (HT40)	CH102	9.35	8.61	250	Pass
11n (HT40)	CH118	9.15	8.22	250	Pass
11n (HT40)	CH134	8.89	7.74	250	Pass
11ac (VHT20)	CH100	9.32	8.56	250	Pass
11ac (VHT20)	CH116	9.12	8.17	250	Pass
11ac (VHT20)	CH140	8.83	7.65	250	Pass
11ac (VHT40)	CH102	9.44	8.78	250	Pass
11ac (VHT40)	CH118	9.18	8.27	250	Pass
11ac (VHT40)	CH134	8.91	7.77	250	Pass
11ac (VHT80)	CH106	9.26	8.43	250	Pass
11ac (VHT80)	CH122	9.42	8.74	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	9.49	8.89	1000	Pass
11a	CH157	9.47	8.85	1000	Pass
11a	CH165	9.39	8.69	1000	Pass
11n (HT20)	CH149	9.38	8.67	1000	Pass
11n (HT20)	CH157	9.35	8.61	1000	Pass
11n (HT20)	CH165	9.20	8.32	1000	Pass
11n (HT40)	CH151	9.51	8.93	1000	Pass
11n (HT40)	CH159	9.44	8.79	1000	Pass
11ac (VHT20)	CH149	9.38	8.68	1000	Pass
11ac (VHT20)	CH157	9.36	8.64	1000	Pass
11ac (VHT20)	CH165	9.19	8.31	1000	Pass
11ac (VHT40)	CH151	9.51	8.92	1000	Pass
11ac (VHT40)	CH159	9.50	8.90	1000	Pass
11ac (VHT80)	CH155	9.47	8.84	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SH2470490-603 Data Part 1.pdf".

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	20.03	16.49
11a	CH44	20.09	16.46
11a	CH48	19.99	16.47
11n (HT20)	CH36	20.27	17.61
11n (HT20)	CH44	20.33	17.61
11n (HT20)	CH48	20.35	17.59
11n (HT40)	CH38	40.71	36.04
11n (HT40)	CH46	40.69	36.08
11ac (VHT20)	CH36	20.33	17.56
11ac (VHT20)	CH44	20.35	17.58
11ac (VHT20)	CH48	20.29	17.56
11ac (VHT40)	CH38	40.31	35.99
11ac (VHT40)	CH46	40.74	36.00
11ac (VHT80)	CH42	81.09	75.29

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	20.10	16.44
11a	CH60	20.02	16.46
11a	CH64	20.02	16.48
11n (HT20)	CH52	20.28	17.60
11n (HT20)	CH60	20.32	17.59
11n (HT20)	CH64	20.30	17.60
11n (HT40)	CH54	40.71	36.05
11n (HT40)	CH62	40.51	36.04
11ac (VHT20)	CH52	20.21	17.57
11ac (VHT20)	CH60	20.25	17.56
11ac (VHT20)	CH64	20.29	17.57
11ac (VHT40)	CH54	40.54	36.02
11ac (VHT40)	CH62	40.25	36.01
11ac (VHT80)	CH58	81.19	75.20

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	20.03	16.46
11a	CH116	20.01	16.47
11a	CH140	20.07	16.51
11n (HT20)	CH100	20.33	17.60
11n (HT20)	CH116	20.20	17.60
11n (HT20)	CH140	20.52	17.62
11n (HT40)	CH102	40.46	36.07
11n (HT40)	CH118	40.54	36.07
11n (HT40)	CH134	40.51	36.12
11ac (VHT20)	CH100	20.39	17.56
11ac (VHT20)	CH116	20.32	17.55
11ac (VHT20)	CH140	20.41	17.59
11ac (VHT40)	CH102	40.66	35.98
11ac (VHT40)	CH118	40.62	36.01
11ac (VHT40)	CH134	40.85	36.04
11ac (VHT80)	CH106	81.23	75.26
11ac (VHT80)	CH122	80.99	75.23

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	20.08	16.50
11a	CH157	20.07	16.52
11a	CH165	20.08	16.52
11n (HT20)	CH149	20.31	17.61
11n (HT20)	CH157	20.30	17.64
11n (HT20)	CH165	20.33	17.65
11n (HT40)	CH151	40.56	36.12
11n (HT40)	CH159	40.36	36.12
11ac (VHT20)	CH149	20.30	17.59
11ac (VHT20)	CH157	20.35	17.58
11ac (VHT20)	CH165	20.35	17.59
11ac (VHT40)	CH151	40.45	36.01
11ac (VHT40)	CH159	40.83	35.99
11ac (VHT80)	CH155	81.00	75.27

A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SH2470490-603 Data Part 2.pdf".

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.3	500.00	Pass
11a	CH157	15.3	500.00	Pass
11a	CH165	15.4	500.00	Pass
11n (HT20)	CH149	15.4	500.00	Pass
11n (HT20)	CH157	15.3	500.00	Pass
11n (HT20)	CH165	15.3	500.00	Pass
11n (HT40)	CH151	35.4	500.00	Pass
11n (HT40)	CH159	35.3	500.00	Pass
11ac (VHT20)	CH149	15.4	500.00	Pass
11ac (VHT20)	CH157	15.3	500.00	Pass
11ac (VHT20)	CH165	15.3	500.00	Pass
11ac (VHT40)	CH151	35.3	500.00	Pass
11ac (VHT40)	CH159	35.3	500.00	Pass
11ac (VHT80)	CH155	75.3	500.00	Pass

A.4 Power Spectral Density

Note ¹: Test plots please refer to the document "Annex No.: BL-SH2470490-603 Data Part 3.pdf".

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

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	-0.855	11.00	Pass
11a	CH44	-0.831	11.00	Pass
11a	CH48	-0.861	11.00	Pass
11n (HT20)	CH36	-1.208	11.00	Pass
11n (HT20)	CH44	-1.184	11.00	Pass
11n (HT20)	CH48	-1.204	11.00	Pass
11n (HT40)	CH38	-3.991	11.00	Pass
11n (HT40)	CH46	-4.033	11.00	Pass
11ac (VHT20)	CH36	-1.679	11.00	Pass
11ac (VHT20)	CH44	-1.228	11.00	Pass
11ac (VHT20)	CH48	-1.213	11.00	Pass
11ac (VHT40)	CH38	-4.027	11.00	Pass
11ac (VHT40)	CH46	-4.249	11.00	Pass
11ac (VHT80)	CH42	-7.455	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	-0.750	11.00	Pass
11a	CH60	-0.866	11.00	Pass
11a	CH64	-1.100	11.00	Pass
11n (HT20)	CH52	-1.035	11.00	Pass
11n (HT20)	CH60	-1.207	11.00	Pass
11n (HT20)	CH64	-1.484	11.00	Pass
11n (HT40)	CH54	-3.972	11.00	Pass
11n (HT40)	CH62	-4.271	11.00	Pass
11ac (VHT20)	CH52	-1.071	11.00	Pass
11ac (VHT20)	CH60	-1.284	11.00	Pass
11ac (VHT20)	CH64	-1.477	11.00	Pass
11ac (VHT40)	CH54	-4.013	11.00	Pass
11ac (VHT40)	CH62	-4.277	11.00	Pass
11ac (VHT80)	CH58	-7.547	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	-1.233	11.00	Pass
11a	CH116	-1.484	11.00	Pass
11a	CH140	-1.449	11.00	Pass
11n (HT20)	CH100	-2.238	11.00	Pass
11n (HT20)	CH116	-2.409	11.00	Pass
11n (HT20)	CH140	-1.849	11.00	Pass
11n (HT40)	CH102	-4.481	11.00	Pass
11n (HT40)	CH118	-4.689	11.00	Pass
11n (HT40)	CH134	-4.688	11.00	Pass
11ac (VHT20)	CH100	-1.547	11.00	Pass
11ac (VHT20)	CH116	-1.780	11.00	Pass
11ac (VHT20)	CH140	-1.919	11.00	Pass
11ac (VHT40)	CH102	-4.463	11.00	Pass
11ac (VHT40)	CH118	-4.691	11.00	Pass
11ac (VHT40)	CH134	-4.701	11.00	Pass
11ac (VHT80)	CH106	-8.123	11.00	Pass
11ac (VHT80)	CH122	-7.537	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-3.867	30.00	Pass
11a	CH157	-4.002	30.00	Pass
11a	CH165	-4.073	30.00	Pass
11n (HT20)	CH149	-4.226	30.00	Pass
11n (HT20)	CH157	-4.356	30.00	Pass
11n (HT20)	CH165	-4.388	30.00	Pass
11n (HT40)	CH151	-7.433	30.00	Pass
11n (HT40)	CH159	-7.090	30.00	Pass
11ac (VHT20)	CH149	-4.190	30.00	Pass
11ac (VHT20)	CH157	-4.263	30.00	Pass
11ac (VHT20)	CH165	-4.419	30.00	Pass
11ac (VHT40)	CH151	-6.934	30.00	Pass
11ac (VHT40)	CH159	-7.190	30.00	Pass
11ac (VHT80)	CH155	-10.312	30.00	Pass

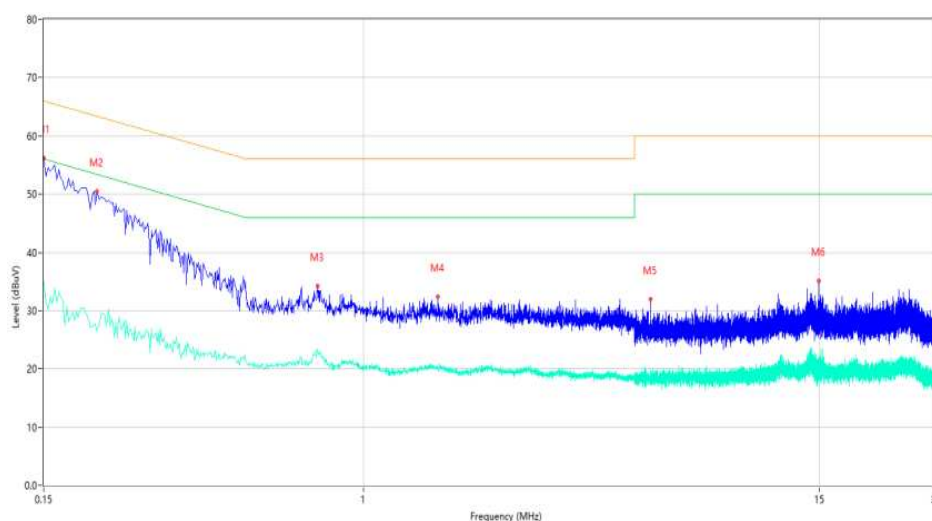
A.5 Conducted Emissions

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

Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

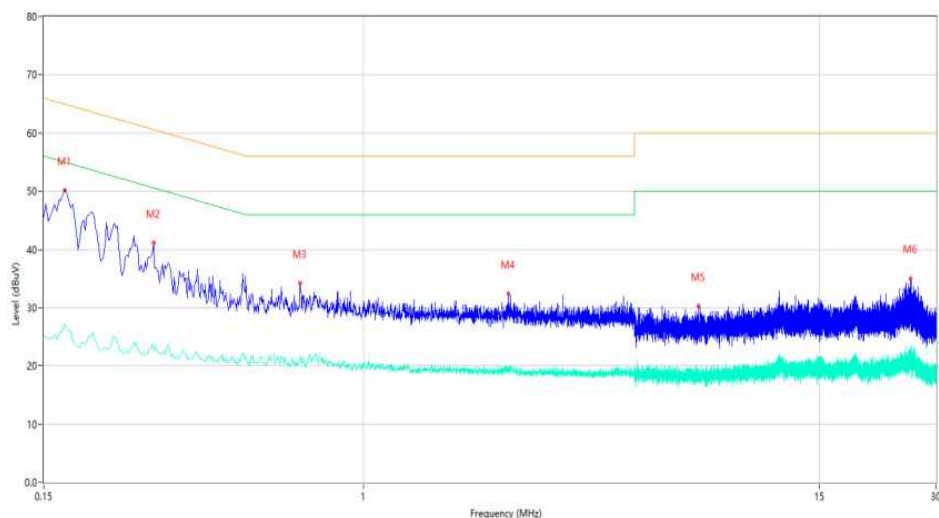
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	56.24	9.75	66.00	9.76	Peak	L	Pass
1**	0.150	34.99	9.75	56.00	21.01	AV	L	Pass
2	0.206	50.51	9.75	63.37	12.86	Peak	L	Pass
2**	0.206	26.48	9.75	53.37	26.89	AV	L	Pass
3	0.764	34.17	9.72	56.00	21.83	Peak	L	Pass
3**	0.764	23.27	9.72	46.00	22.73	AV	L	Pass
4	1.560	32.37	9.69	56.00	23.63	Peak	L	Pass
4**	1.560	20.58	9.69	46.00	25.42	AV	L	Pass
5	5.498	31.98	9.62	60.00	28.02	Peak	L	Pass
5**	5.498	19.13	9.62	50.00	30.87	AV	L	Pass
6	14.972	35.07	9.26	60.00	24.93	Peak	L	Pass
6**	14.972	22.07	9.26	50.00	27.93	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.170	50.11	9.75	64.96	14.85	Peak	N	Pass
1**	0.170	27.32	9.75	54.96	27.64	AV	N	Pass
2	0.288	41.09	9.74	60.58	19.49	Peak	N	Pass
2**	0.288	23.21	9.74	50.58	27.37	AV	N	Pass
3	0.688	34.16	9.72	56.00	21.84	Peak	N	Pass
3**	0.688	21.19	9.72	46.00	24.81	AV	N	Pass
4	2.364	32.34	9.68	56.00	23.66	Peak	N	Pass
4**	2.364	19.63	9.68	46.00	26.37	AV	N	Pass
5	7.336	30.24	9.56	60.00	29.76	Peak	N	Pass
5**	7.336	18.28	9.56	50.00	31.72	AV	N	Pass
6	25.794	34.88	8.82	60.00	25.12	Peak	N	Pass
6**	25.794	22.50	8.82	50.00	27.50	AV	N	Pass

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

Test Data

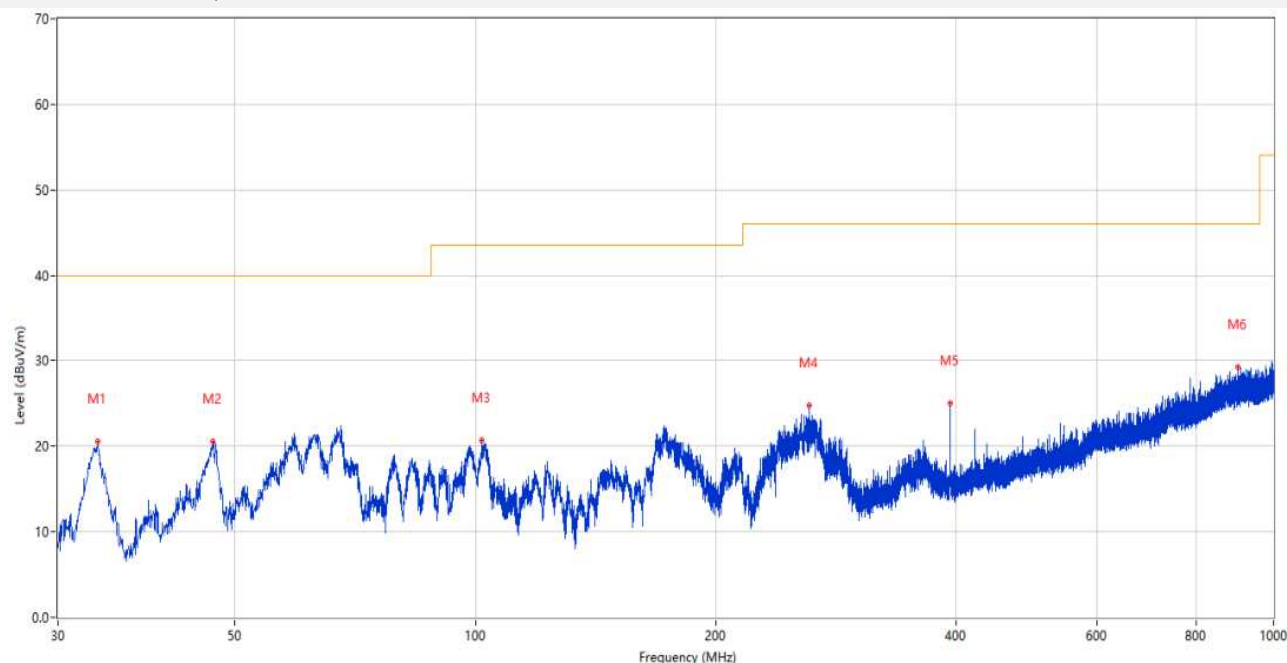
Note¹: The symbol of "--" in the table which means not application.

Note²: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

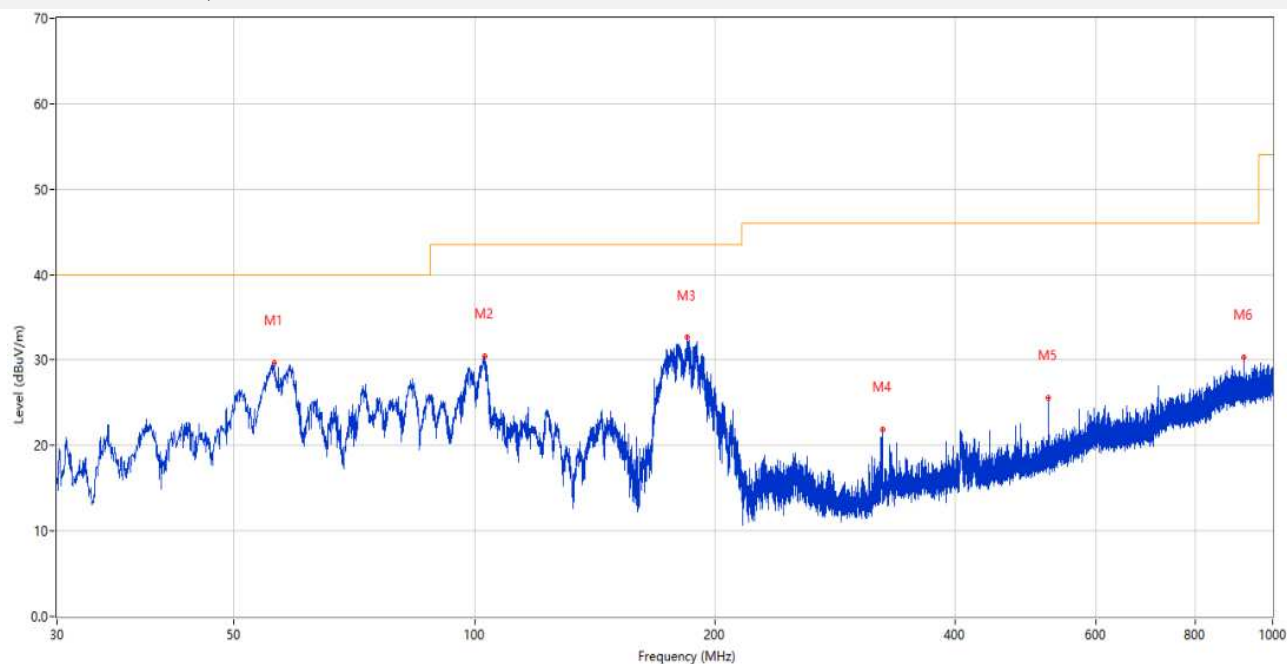
Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

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	33.686	20.51	-28.22	40.0	19.49	Peak	162.00	200	Horizontal	Pass
2	46.926	20.61	-24.53	40.0	19.39	Peak	52.00	200	Horizontal	Pass
3	101.974	20.68	-26.10	43.5	22.82	Peak	156.00	200	Horizontal	Pass
4	261.927	24.77	-24.13	46.0	21.23	Peak	278.00	100	Horizontal	Pass
5	393.022	25.03	-20.55	46.0	20.97	Peak	199.00	200	Horizontal	Pass
6	901.690	29.29	-9.21	46.0	16.71	Peak	175.00	100	Horizontal	Pass

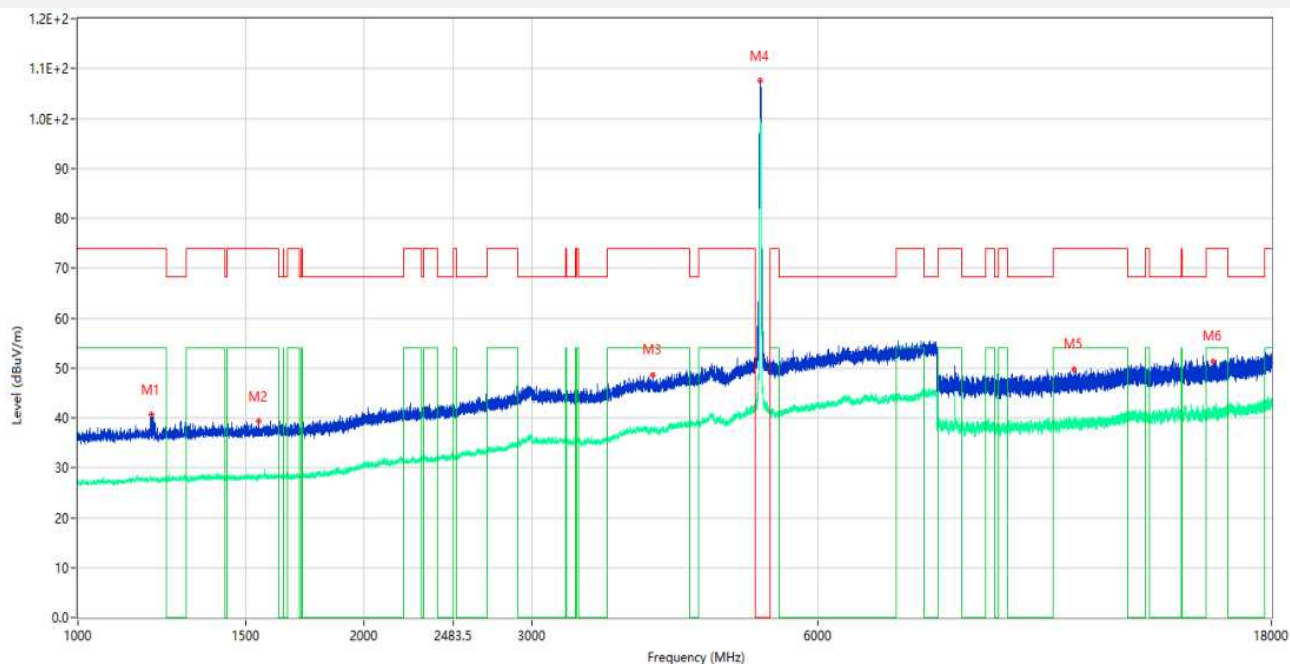
30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	56.093	29.61	-25.22	40.0	10.39	Peak	334.00	100	Vertical	Pass
2	102.896	30.44	-26.14	43.5	13.06	Peak	75.00	200	Vertical	Pass
3	184.909	32.63	-27.18	43.5	10.87	Peak	87.00	100	Vertical	Pass
4	324.832	21.95	-22.57	46.0	24.05	Peak	0.00	100	Vertical	Pass
5	524.021	25.53	-17.66	46.0	20.47	Peak	81.00	100	Vertical	Pass
6	920.363	30.30	-9.13	46.0	15.70	Peak	138.00	100	Vertical	Pass

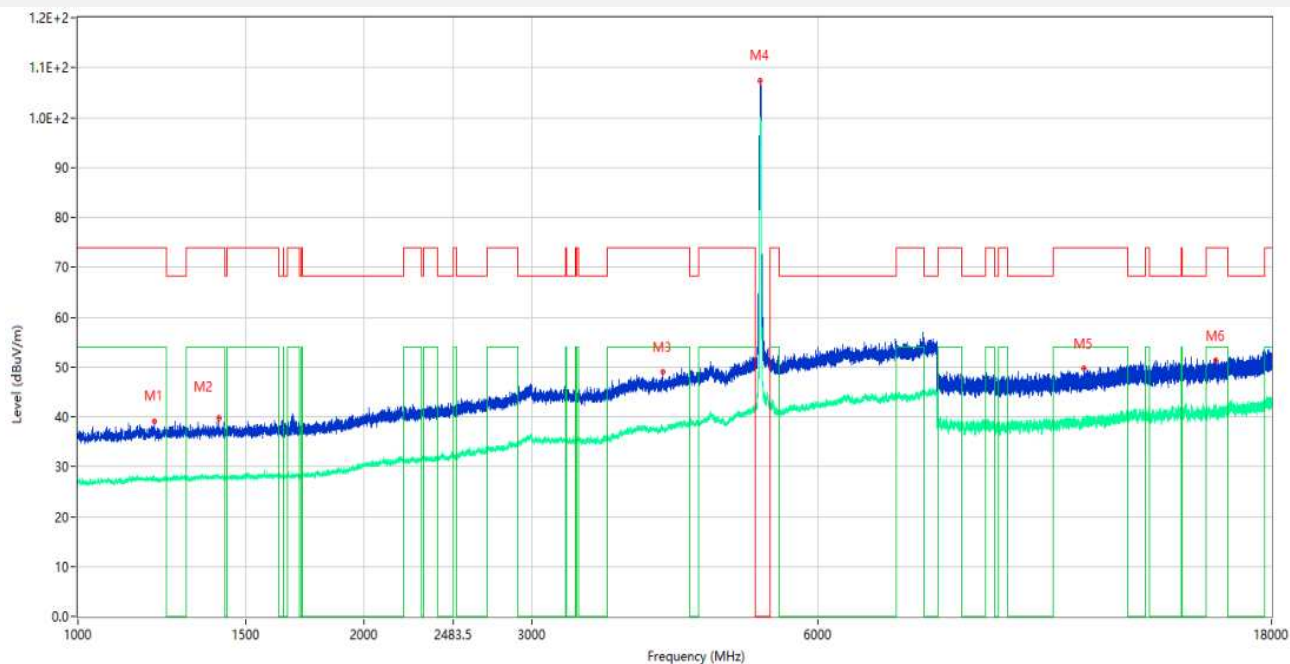
Note: The spurious above 18G is noise only, do not show on the report.

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



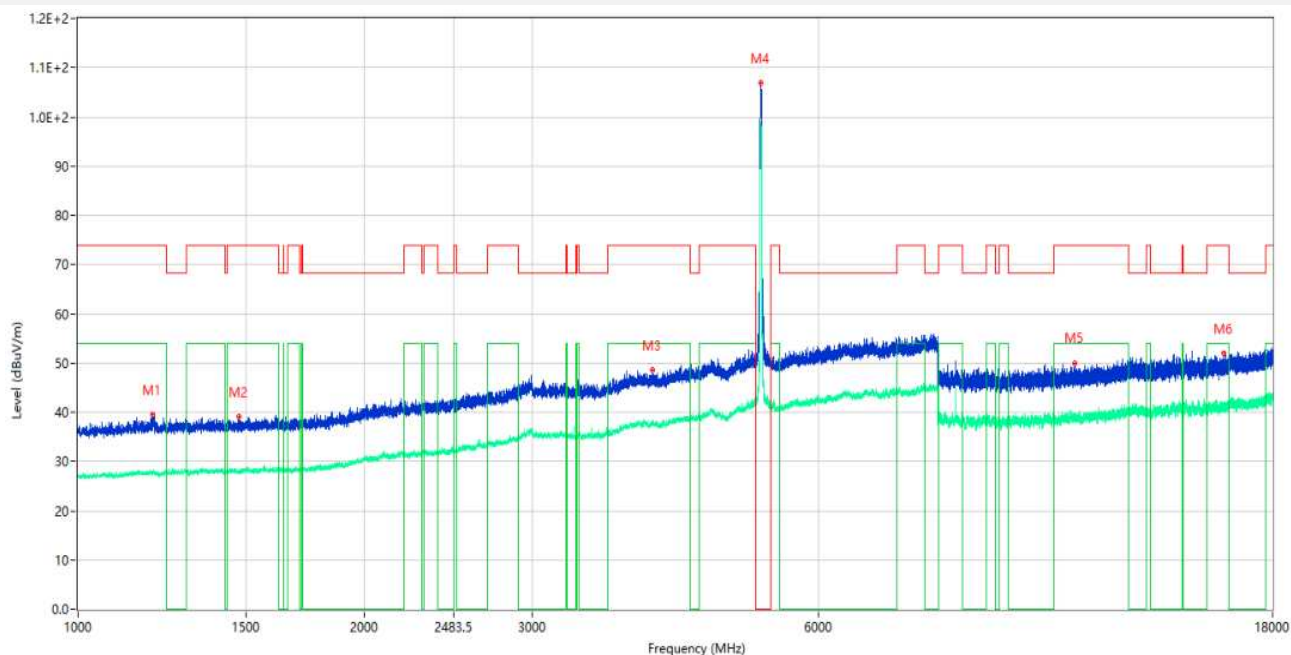
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1193.500	40.71	-15.24	74.0	33.29	Peak	255.00	150	Horizontal	Pass
1**	1193.500	27.54	-15.24	54.0	26.46	AV	255.00	150	Horizontal	Pass
2	1549.000	39.26	-15.46	74.0	34.74	Peak	230.00	150	Horizontal	Pass
2**	1549.000	28.40	-15.46	54.0	25.60	AV	230.00	150	Horizontal	Pass
3	4019.500	48.70	-3.10	74.0	25.30	Peak	41.00	150	Horizontal	Pass
3**	4019.500	37.62	-3.10	54.0	16.38	AV	41.00	150	Horizontal	Pass
4	5221.000	107.53	-0.85	--	-35.53	Peak	72.00	150	Horizontal	N/A
4**	5221.000	98.99	-0.85	--	-98.99	AV	72.00	150	Horizontal	N/A
5	11163.737	49.81	-1.19	74.0	24.19	Peak	182.00	150	Horizontal	Pass
5**	11163.737	38.86	-1.19	54.0	15.14	AV	182.00	150	Horizontal	Pass
6	15624.637	51.40	1.52	74.0	22.60	Peak	52.00	150	Horizontal	Pass
6**	15624.637	41.48	1.52	54.0	12.52	AV	52.00	150	Horizontal	Pass

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



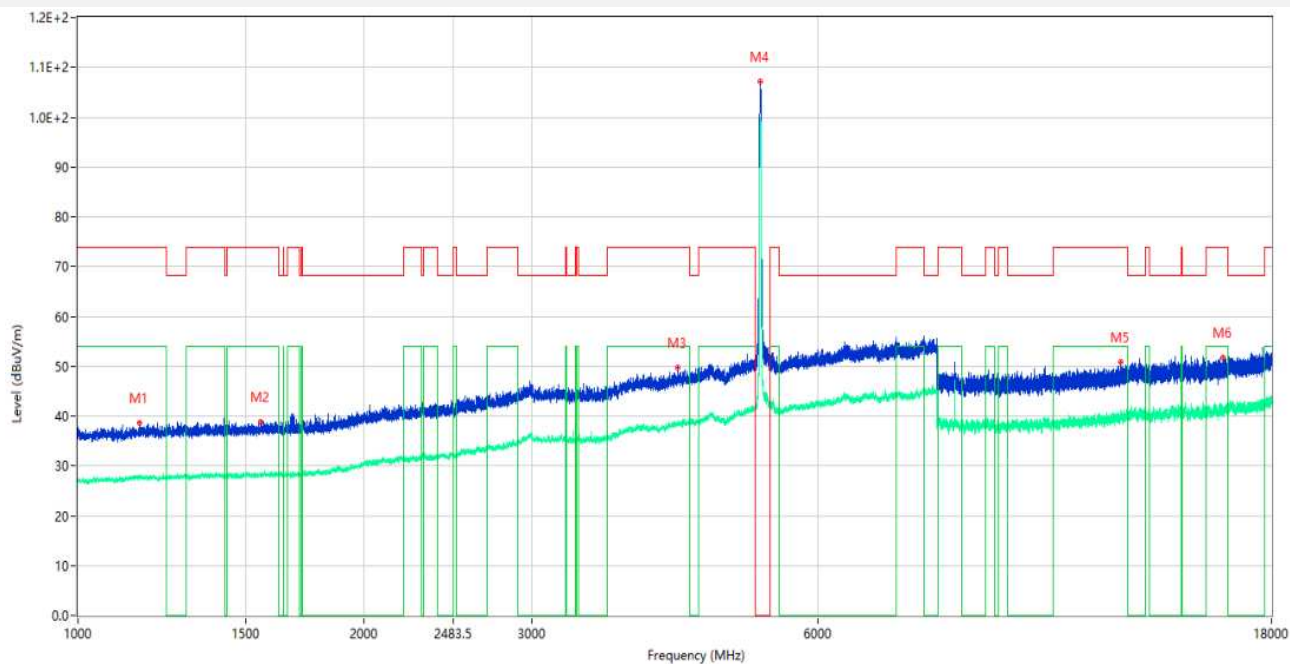
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1202.500	39.19	-15.29	74.0	34.81	Peak	360.00	150	Vertical	Pass
1**	1202.500	27.69	-15.29	54.0	26.31	AV	360.00	150	Vertical	Pass
2	1406.500	39.77	-15.38	74.0	34.23	Peak	70.00	150	Vertical	Pass
2**	1406.500	28.09	-15.38	54.0	25.91	AV	70.00	150	Vertical	Pass
3	4122.000	49.00	-3.34	74.0	25.00	Peak	45.00	150	Vertical	Pass
3**	4122.000	37.62	-3.34	54.0	16.38	AV	45.00	150	Vertical	Pass
4	5219.000	107.43	-0.89	--	178.57	Peak	286.00	150	Vertical	N/A
4**	5219.000	99.40	-0.89	--	-99.40	AV	286.00	150	Vertical	N/A
5	11427.838	49.73	-1.34	74.0	24.27	Peak	158.00	150	Vertical	Pass
5**	11427.838	39.15	-1.34	54.0	14.85	AV	158.00	150	Vertical	Pass
6	15715.724	51.41	1.22	74.0	22.59	Peak	261.00	150	Vertical	Pass
6**	15715.724	41.43	1.22	54.0	12.57	AV	261.00	150	Vertical	Pass

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



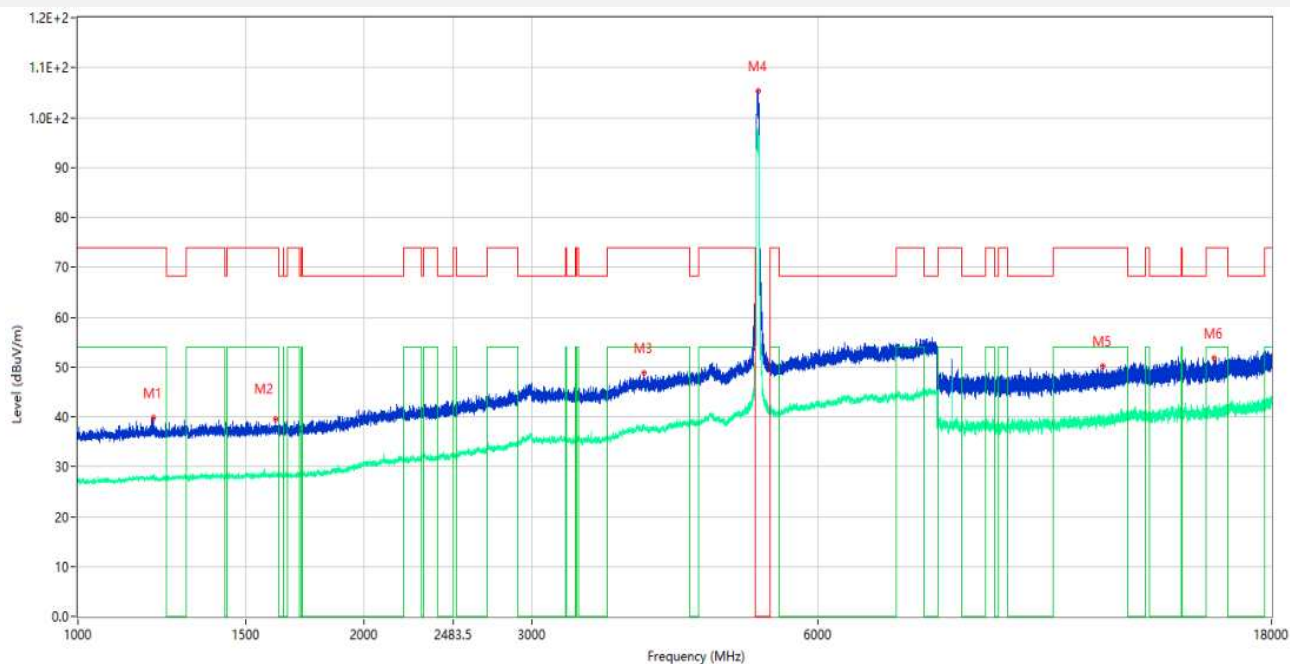
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1197.250	39.48	-15.26	74.0	34.52	Peak	226.00	150	Horizontal	Pass
1**	1197.250	27.50	-15.26	54.0	26.50	AV	226.00	150	Horizontal	Pass
2	1476.750	39.12	-15.64	74.0	34.88	Peak	267.00	150	Horizontal	Pass
2**	1476.750	28.13	-15.64	54.0	25.87	AV	267.00	150	Horizontal	Pass
3	4019.000	48.53	-3.12	74.0	25.47	Peak	356.00	150	Horizontal	Pass
3**	4019.000	37.84	-3.12	54.0	16.16	AV	356.00	150	Horizontal	Pass
4	5221.000	106.96	-0.85	--	-30.96	Peak	76.00	150	Horizontal	N/A
4**	5221.000	98.66	-0.85	--	-98.66	AV	76.00	150	Horizontal	N/A
5	11149.963	50.05	-1.16	74.0	23.95	Peak	86.00	150	Horizontal	Pass
5**	11149.963	39.04	-1.16	54.0	14.96	AV	86.00	150	Horizontal	Pass
6	16011.563	51.88	1.17	74.0	22.12	Peak	0.00	150	Horizontal	Pass
6**	16011.563	41.34	1.17	54.0	12.66	AV	0.00	150	Horizontal	Pass

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



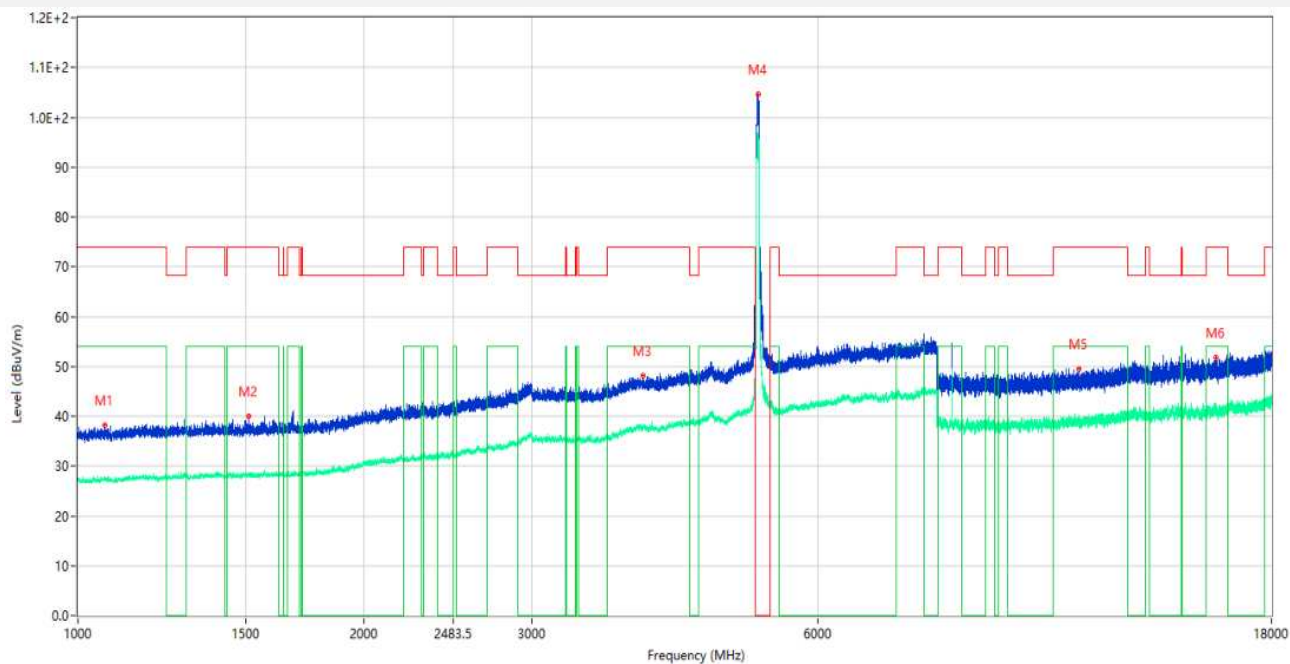
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.250	38.65	-15.46	74.0	35.35	Peak	133.00	150	Vertical	Pass
1**	1161.250	27.91	-15.46	54.0	26.09	AV	133.00	150	Vertical	Pass
2	1555.500	38.78	-15.30	74.0	35.22	Peak	138.00	150	Vertical	Pass
2**	1555.500	28.48	-15.30	54.0	25.52	AV	138.00	150	Vertical	Pass
3	4277.500	49.61	-2.44	74.0	24.39	Peak	0.00	150	Vertical	Pass
3**	4277.500	38.43	-2.44	54.0	15.57	AV	0.00	150	Vertical	Pass
4	5221.500	107.03	-0.84	--	188.97	Peak	296.00	150	Vertical	N/A
4**	5221.500	99.80	-0.84	--	-99.80	AV	296.00	150	Vertical	N/A
5	12503.238	50.76	-0.10	74.0	23.24	Peak	354.00	150	Vertical	Pass
5**	12503.238	39.80	-0.10	54.0	14.20	AV	354.00	150	Vertical	Pass
6	16009.725	51.67	1.26	74.0	22.33	Peak	260.00	150	Vertical	Pass
6**	16009.725	41.03	1.26	54.0	12.97	AV	260.00	150	Vertical	Pass

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



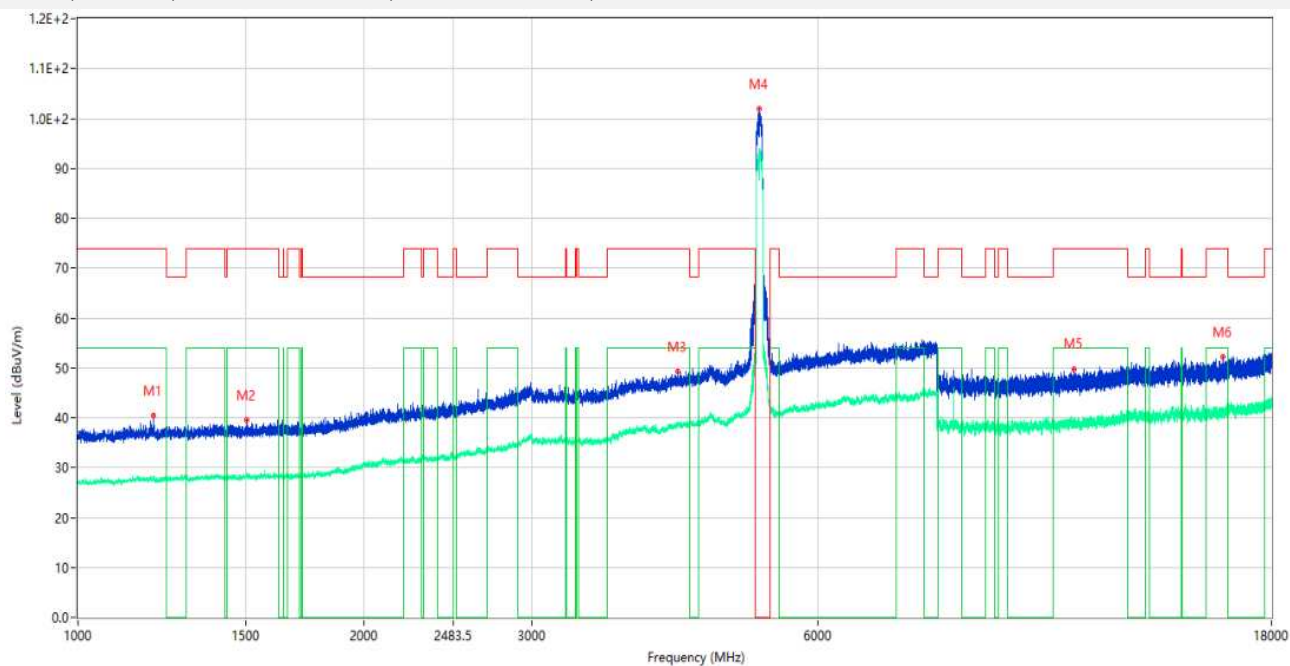
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1201.250	39.73	-15.29	74.0	34.27	Peak	145.00	150	Horizontal	Pass
1**	1201.250	28.14	-15.29	54.0	25.86	AV	145.00	150	Horizontal	Pass
2	1615.000	39.50	-15.19	74.0	34.50	Peak	360.00	150	Horizontal	Pass
2**	1615.000	28.48	-15.19	54.0	25.52	AV	360.00	150	Horizontal	Pass
3	3939.000	48.84	-3.25	74.0	25.16	Peak	0.00	150	Horizontal	Pass
3**	3939.000	38.51	-3.25	54.0	15.49	AV	0.00	150	Horizontal	Pass
4	5188.000	105.21	-0.99	--	-41.21	Peak	64.00	150	Horizontal	N/A
4**	5188.000	97.67	-0.99	--	-97.67	AV	64.00	150	Horizontal	N/A
5	11961.975	50.18	-1.10	74.0	23.82	Peak	360.00	150	Horizontal	Pass
5**	11961.975	39.16	-1.10	54.0	14.84	AV	360.00	150	Horizontal	Pass
6	15669.787	51.84	1.75	74.0	22.16	Peak	87.00	150	Horizontal	Pass
6**	15669.787	41.65	1.75	54.0	12.35	AV	87.00	150	Horizontal	Pass

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



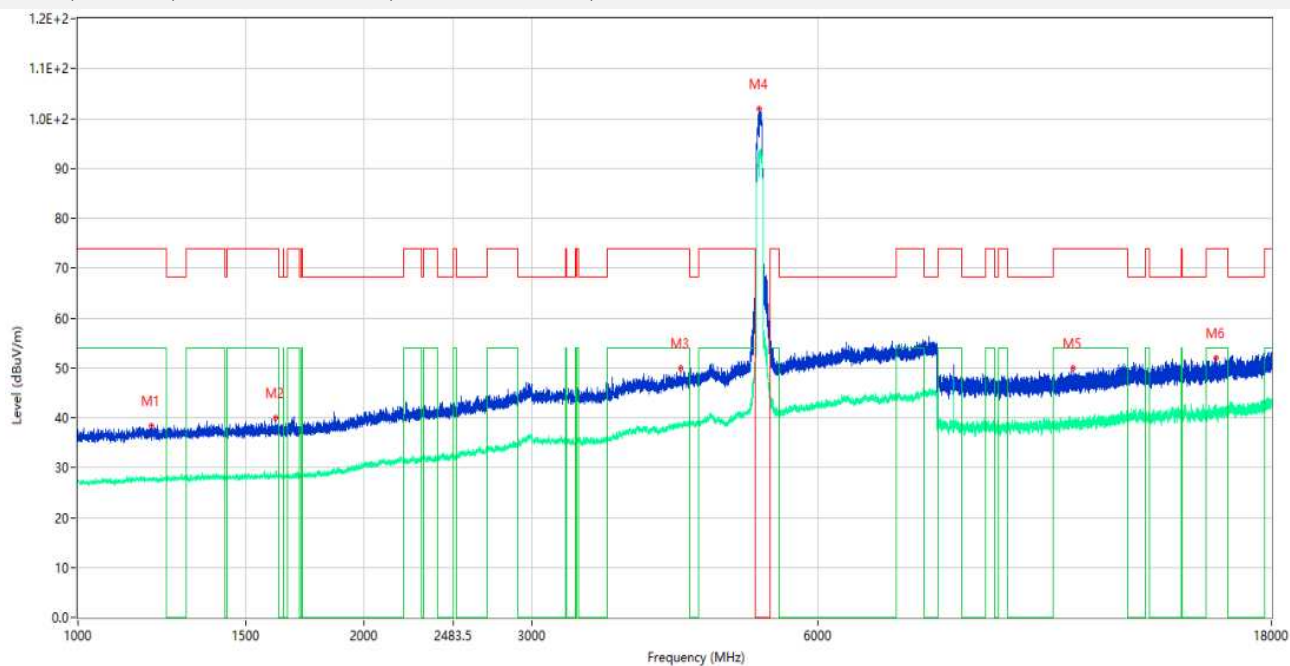
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1066.750	38.08	-15.59	74.0	35.92	Peak	244.00	150	Vertical	Pass
1**	1066.750	27.24	-15.59	54.0	26.76	AV	244.00	150	Vertical	Pass
2	1511.000	39.95	-15.23	74.0	34.05	Peak	80.00	150	Vertical	Pass
2**	1511.000	28.54	-15.23	54.0	25.46	AV	80.00	150	Vertical	Pass
3	3928.500	48.11	-2.57	74.0	25.89	Peak	23.00	150	Vertical	Pass
3**	3928.500	37.54	-2.57	54.0	16.46	AV	23.00	150	Vertical	Pass
4	5191.500	104.67	-1.06	--	183.33	Peak	288.00	150	Vertical	N/A
4**	5191.500	96.25	-1.06	--	-96.25	AV	288.00	150	Vertical	N/A
5	11282.250	49.56	-1.39	74.0	24.44	Peak	231.00	150	Vertical	Pass
5**	11282.250	38.56	-1.39	54.0	15.44	AV	231.00	150	Vertical	Pass
6	15723.862	51.78	1.31	74.0	22.22	Peak	329.00	150	Vertical	Pass
6**	15723.862	42.06	1.31	54.0	11.94	AV	329.00	150	Vertical	Pass

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



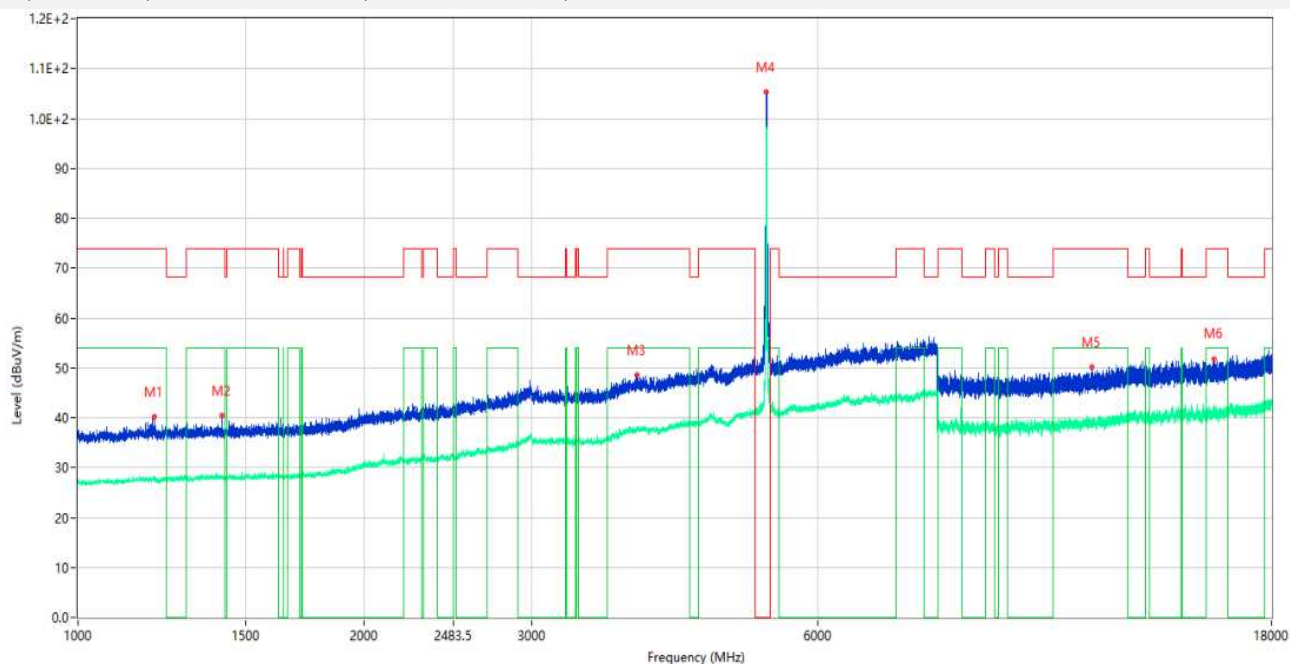
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.250	40.38	-15.31	74.0	33.62	Peak	222.00	150	Horizontal	Pass
1**	1200.250	28.34	-15.31	54.0	25.66	AV	222.00	150	Horizontal	Pass
2	1503.250	39.45	-15.30	74.0	34.55	Peak	10.00	150	Horizontal	Pass
2**	1503.250	28.57	-15.30	54.0	25.43	AV	10.00	150	Horizontal	Pass
3	4272.500	49.17	-2.37	74.0	24.83	Peak	0.00	150	Horizontal	Pass
3**	4272.500	38.57	-2.37	54.0	15.43	AV	0.00	150	Horizontal	Pass
4	5203.500	102.00	-0.94	--	-26.00	Peak	76.00	150	Horizontal	N/A
4**	5203.500	91.81	-0.94	--	-91.81	AV	76.00	150	Horizontal	N/A
5	11159.463	49.82	-1.30	74.0	24.18	Peak	255.00	150	Horizontal	Pass
5**	11159.463	38.53	-1.30	54.0	15.47	AV	255.00	150	Horizontal	Pass
6	16016.287	52.21	1.29	74.0	21.79	Peak	17.00	150	Horizontal	Pass
6**	16016.287	40.85	1.29	54.0	13.15	AV	17.00	150	Horizontal	Pass

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



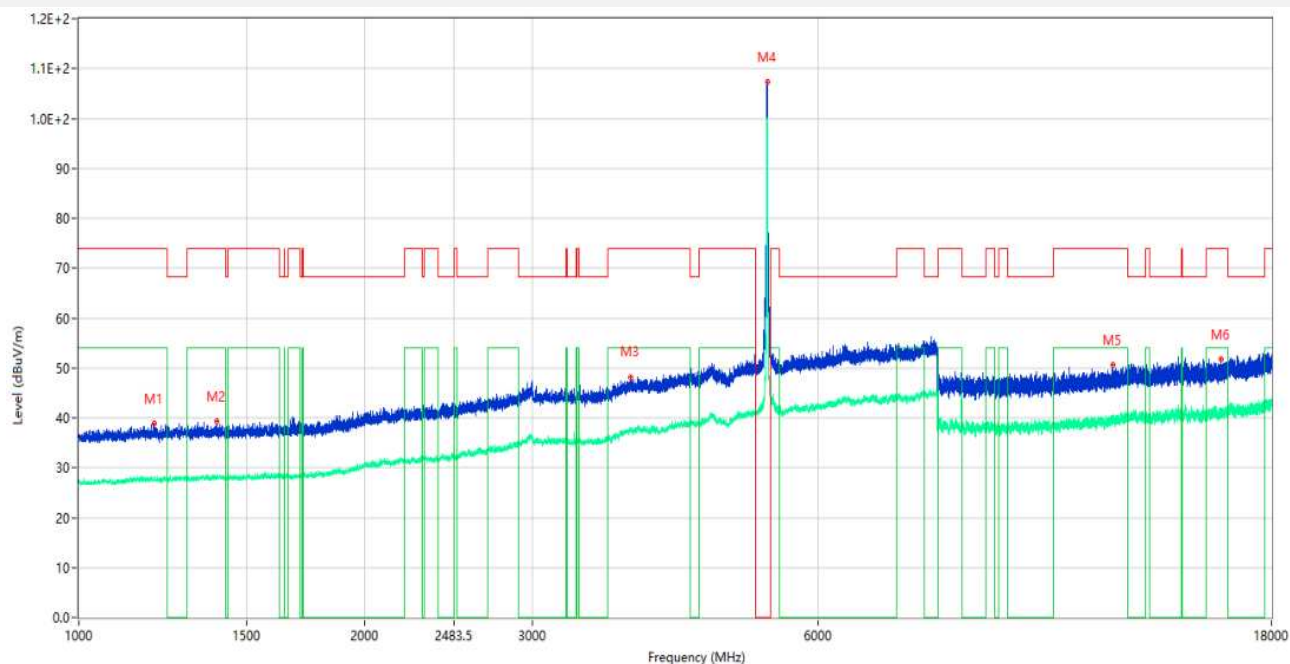
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.000	38.44	-15.26	74.0	35.56	Peak	2.00	150	Vertical	Pass
1**	1196.000	27.78	-15.26	54.0	26.22	AV	2.00	150	Vertical	Pass
2	1614.750	40.05	-15.17	74.0	33.95	Peak	84.00	150	Vertical	Pass
2**	1614.750	28.35	-15.17	54.0	25.65	AV	84.00	150	Vertical	Pass
3	4303.000	49.90	-2.72	74.0	24.10	Peak	126.00	150	Vertical	Pass
3**	4303.000	38.57	-2.72	54.0	15.43	AV	126.00	150	Vertical	Pass
4	5203.000	101.83	-0.95	--	190.17	Peak	292.00	150	Vertical	N/A
4**	5203.000	92.59	-0.95	--	-92.59	AV	292.00	150	Vertical	N/A
5	11121.225	50.00	-1.40	74.0	24.00	Peak	307.00	150	Vertical	Pass
5**	11121.225	39.41	-1.40	54.0	14.59	AV	307.00	150	Vertical	Pass
6	15717.562	52.00	1.31	74.0	22.00	Peak	51.00	150	Vertical	Pass
6**	15717.562	41.94	1.31	54.0	12.06	AV	51.00	150	Vertical	Pass

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



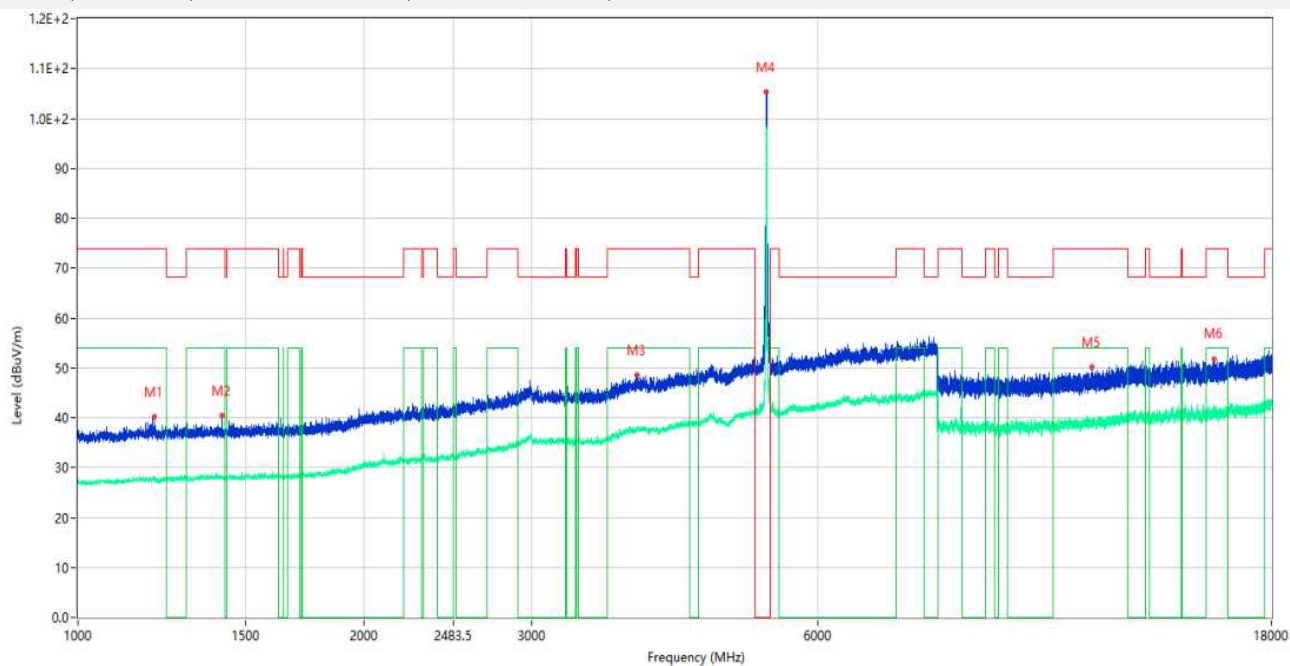
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1202.250	40.12	-15.28	74.0	33.88	Peak	216.00	150	Horizontal	Pass
1**	1202.250	27.94	-15.28	54.0	26.06	AV	216.00	150	Horizontal	Pass
2	1415.750	40.42	-15.37	74.0	33.58	Peak	360.00	150	Horizontal	Pass
2**	1415.750	28.19	-15.37	54.0	25.81	AV	360.00	150	Horizontal	Pass
3	3875.500	48.54	-3.92	74.0	25.46	Peak	306.00	150	Horizontal	Pass
3**	3875.500	38.03	-3.92	54.0	15.97	AV	306.00	150	Horizontal	Pass
4	5298.500	105.24	-0.53	--	-31.24	Peak	74.00	150	Horizontal	N/A
4**	5298.500	98.17	-0.53	--	-98.17	AV	74.00	150	Horizontal	N/A
5	11659.400	50.16	-1.41	74.0	23.84	Peak	160.00	150	Horizontal	Pass
5**	11659.400	39.23	-1.41	54.0	14.77	AV	160.00	150	Horizontal	Pass
6	15674.250	51.69	1.73	74.0	22.31	Peak	157.00	150	Horizontal	Pass
6**	15674.250	41.72	1.73	54.0	12.28	AV	157.00	150	Horizontal	Pass

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



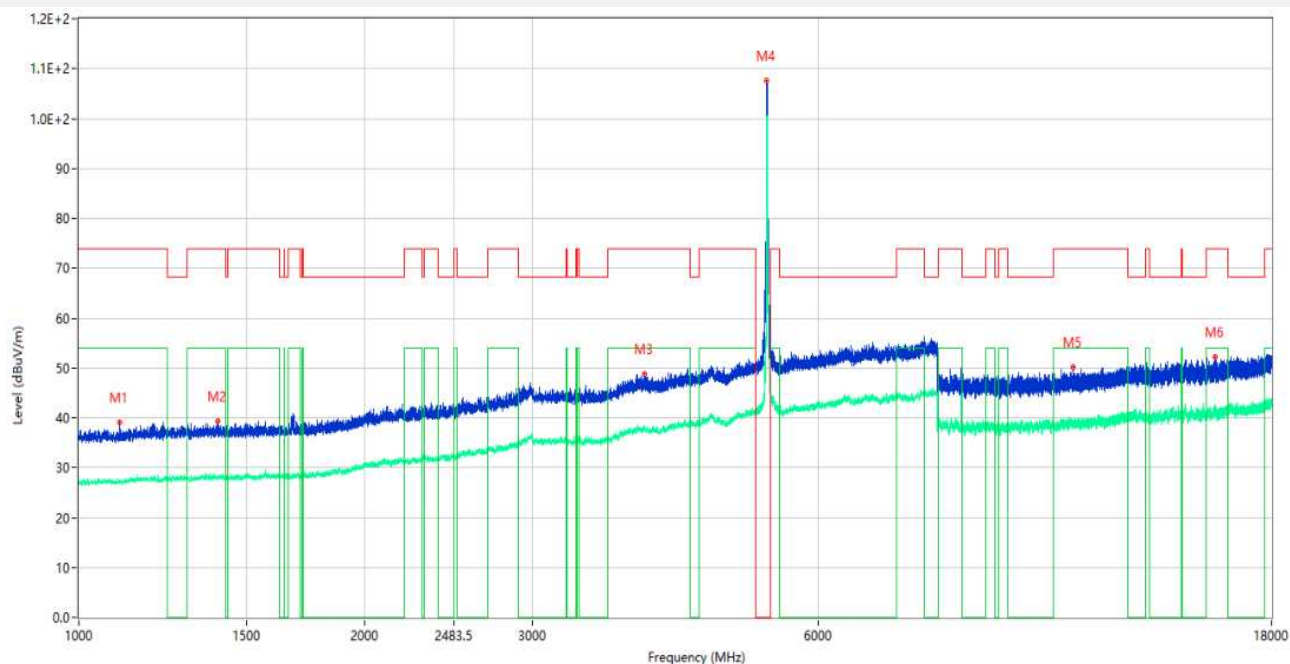
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1201.500	38.88	-15.28	74.0	35.12	Peak	39.00	150	Vertical	Pass
1**	1201.500	28.27	-15.28	54.0	25.73	AV	39.00	150	Vertical	Pass
2	1397.750	39.35	-15.42	74.0	34.65	Peak	39.00	150	Vertical	Pass
2**	1397.750	28.28	-15.42	54.0	25.72	AV	39.00	150	Vertical	Pass
3	3807.000	48.23	-3.86	74.0	25.77	Peak	115.00	150	Vertical	Pass
3**	3807.000	37.84	-3.86	54.0	16.16	AV	115.00	150	Vertical	Pass
4	5301.500	104.09	-0.62	--	74.91	Peak	179.00	150	Vertical	N/A
4**	5301.500	96.97	-0.62	--	-96.97	AV	179.00	150	Vertical	N/A
5	12253.862	50.52	-1.38	74.0	23.48	Peak	58.00	150	Vertical	Pass
5**	12253.862	39.32	-1.38	54.0	14.68	AV	58.00	150	Vertical	Pass
6	15938.326	51.78	1.57	74.0	22.22	Peak	121.00	150	Vertical	Pass
6**	15938.326	41.48	1.57	54.0	12.52	AV	121.00	150	Vertical	Pass

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



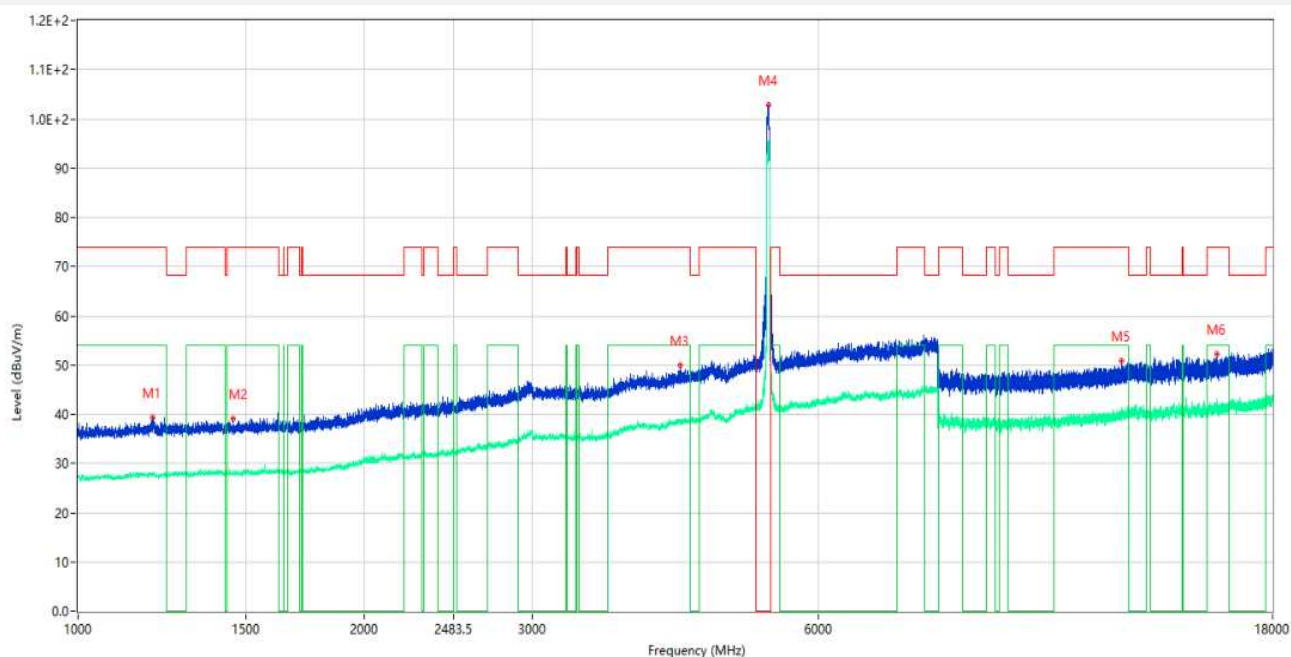
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1196.000	39.70	-15.26	74.0	34.30	Peak	261.00	150	Horizontal	Pass
1**	1196.000	27.48	-15.26	54.0	26.52	AV	261.00	150	Horizontal	Pass
2	1400.500	39.06	-15.41	74.0	34.94	Peak	261.00	150	Horizontal	Pass
2**	1400.500	28.29	-15.41	54.0	25.71	AV	261.00	150	Horizontal	Pass
3	3884.500	48.82	-3.85	74.0	25.18	Peak	204.00	150	Horizontal	Pass
3**	3884.500	37.70	-3.85	54.0	16.30	AV	204.00	150	Horizontal	Pass
4	5299.500	104.90	-0.54	--	-35.90	Peak	69.00	150	Horizontal	N/A
4**	5299.500	97.99	-0.54	--	-97.99	AV	69.00	150	Horizontal	N/A
5	11393.875	50.33	-1.49	74.0	23.67	Peak	355.00	150	Horizontal	Pass
5**	11393.875	38.71	-1.49	54.0	15.29	AV	355.00	150	Horizontal	Pass
6	15964.313	51.89	1.29	74.0	22.11	Peak	156.00	150	Horizontal	Pass
6**	15964.313	41.08	1.29	54.0	12.92	AV	156.00	150	Horizontal	Pass

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



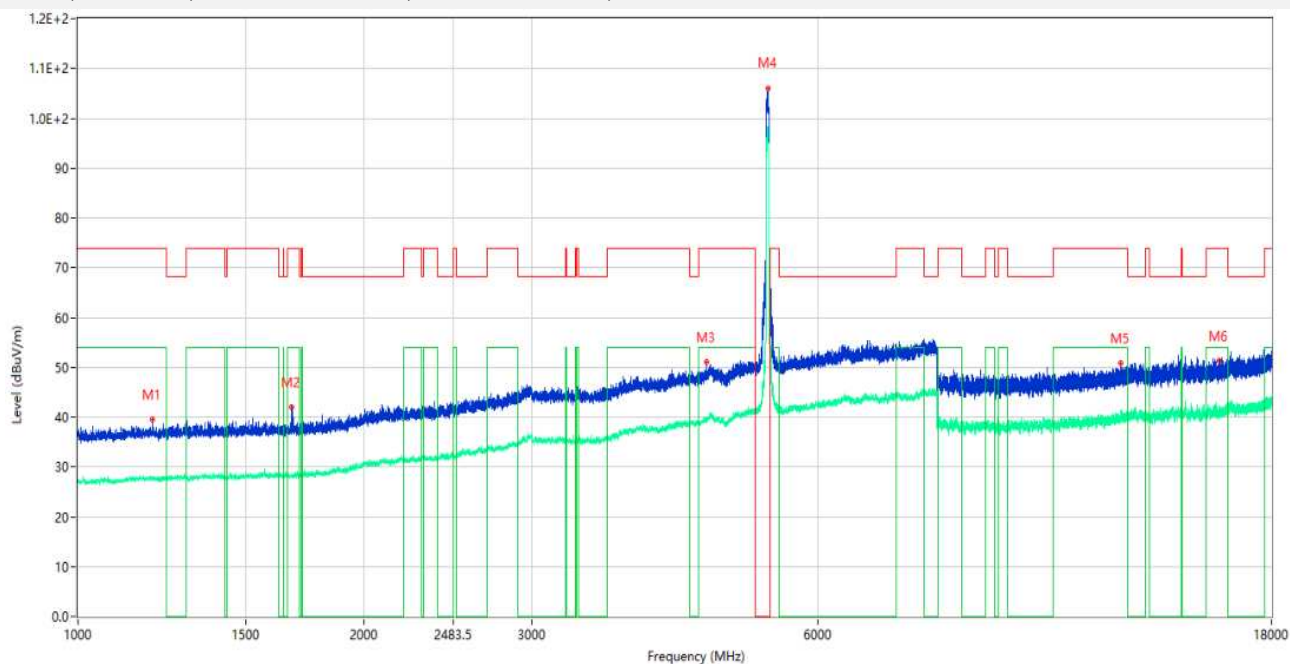
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1104.750	39.04	-15.63	74.0	34.96	Peak	104.00	150	Vertical	Pass
1**	1104.750	27.23	-15.63	54.0	26.77	AV	104.00	150	Vertical	Pass
2	1399.500	39.34	-15.43	74.0	34.66	Peak	360.00	150	Vertical	Pass
2**	1399.500	28.36	-15.43	54.0	25.64	AV	360.00	150	Vertical	Pass
3	3934.000	48.89	-2.82	74.0	25.11	Peak	136.00	150	Vertical	Pass
3**	3934.000	38.05	-2.82	54.0	15.95	AV	136.00	150	Vertical	Pass
4	5299.000	107.60	-0.52	--	187.40	Peak	295.00	150	Vertical	Pass
4**	5299.000	100.28	-0.52	--	-100.28	AV	295.00	150	Vertical	N/A
5	11120.987	50.07	-1.42	74.0	23.93	Peak	133.00	150	Vertical	Pass
5**	11120.987	38.38	-1.42	54.0	15.62	AV	133.00	150	Vertical	Pass
6	15680.287	52.16	1.11	74.0	21.84	Peak	0.00	150	Vertical	Pass
6**	15680.287	41.35	1.11	54.0	12.65	AV	0.00	150	Vertical	Pass

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



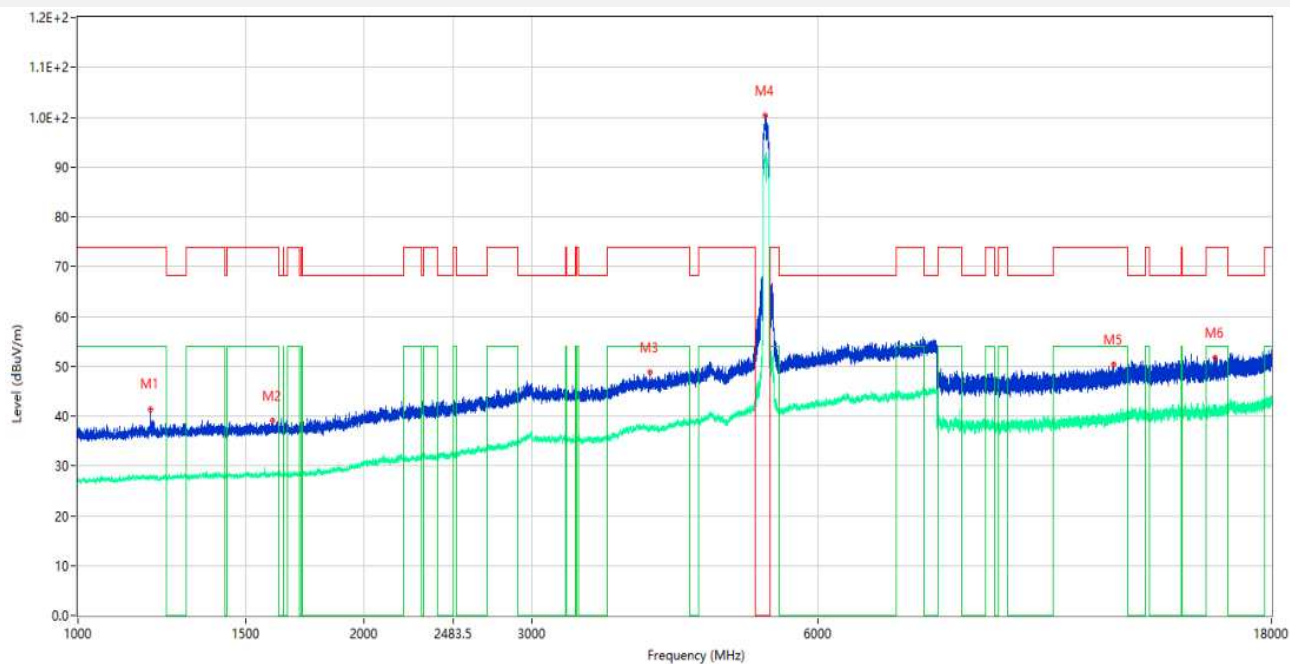
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1198.500	39.35	-15.29	74.0	34.65	Peak	265.00	150	Horizontal	Pass
1**	1198.500	27.61	-15.29	54.0	26.39	AV	265.00	150	Horizontal	Pass
2	1456.000	39.03	-15.39	74.0	34.97	Peak	195.00	150	Horizontal	Pass
2**	1456.000	28.16	-15.39	54.0	25.84	AV	195.00	150	Horizontal	Pass
3	4298.000	49.96	-2.94	74.0	24.04	Peak	251.00	150	Horizontal	Pass
3**	4298.000	38.57	-2.94	54.0	15.43	AV	251.00	150	Horizontal	Pass
4	5312.500	102.75	-0.49	--	-39.75	Peak	63.00	150	Horizontal	N/A
4**	5312.500	95.50	-0.49	--	-95.50	AV	63.00	150	Horizontal	N/A
5	12497.776	50.87	0.17	74.0	23.13	Peak	352.00	150	Horizontal	Pass
5**	12497.776	40.86	0.17	54.0	13.14	AV	352.00	150	Horizontal	Pass
6	15719.663	52.15	1.35	74.0	21.85	Peak	227.00	150	Horizontal	Pass
6**	15719.663	41.41	1.35	54.0	12.59	AV	227.00	150	Horizontal	Pass

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



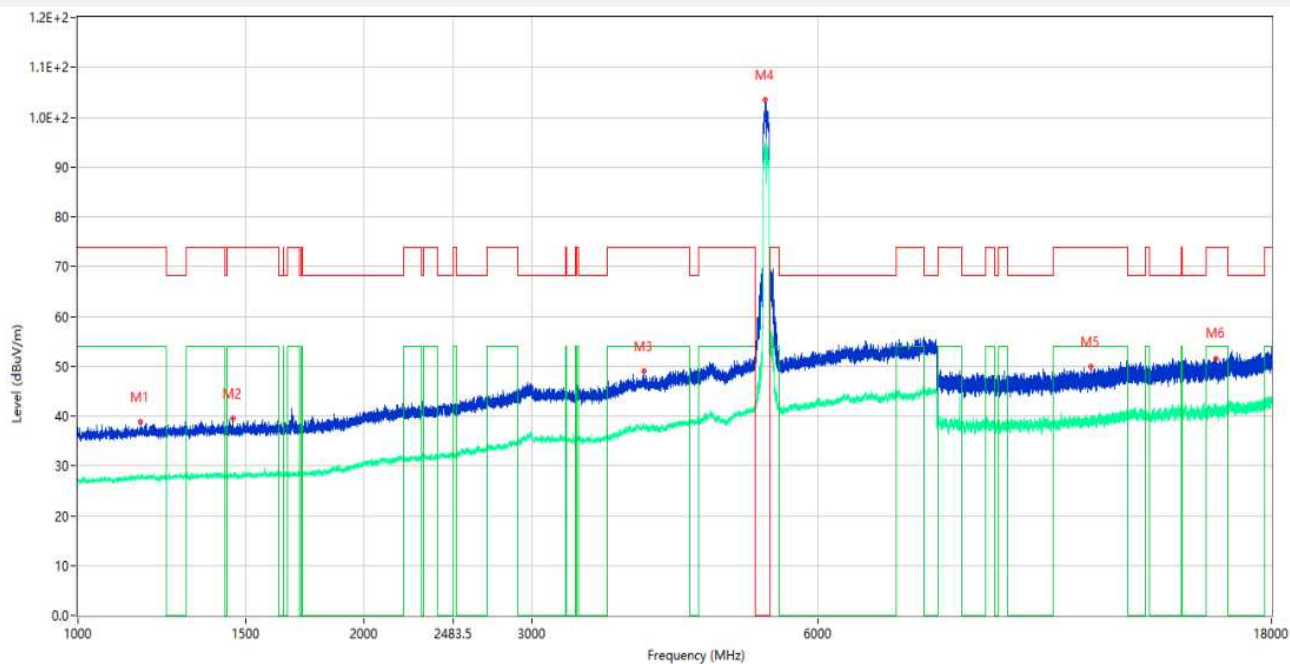
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1198.500	39.61	-15.29	74.0	34.39	Peak	99.00	150	Vertical	Pass
1**	1198.500	27.84	-15.29	54.0	26.16	AV	99.00	150	Vertical	Pass
2	1678.000	41.99	-15.42	74.0	32.01	Peak	202.00	150	Vertical	Pass
2**	1678.000	28.20	-15.42	54.0	25.80	AV	202.00	150	Vertical	Pass
3	4580.500	51.15	-2.51	74.0	22.85	Peak	4.00	150	Vertical	Pass
3**	4580.500	39.38	-2.51	54.0	14.62	AV	4.00	150	Vertical	Pass
4	5314.500	106.09	-0.49	--	188.91	Peak	295.00	150	Vertical	N/A
4**	5314.500	97.58	-0.49	--	-97.58	AV	295.00	150	Vertical	N/A
5	12490.174	50.92	0.10	74.0	23.08	Peak	111.00	150	Vertical	Pass
5**	12490.174	40.69	0.10	54.0	13.31	AV	111.00	150	Vertical	Pass
6	15840.675	51.27	1.47	74.0	22.73	Peak	191.00	150	Vertical	Pass
6**	15840.675	40.79	1.47	54.0	13.21	AV	191.00	150	Vertical	Pass

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



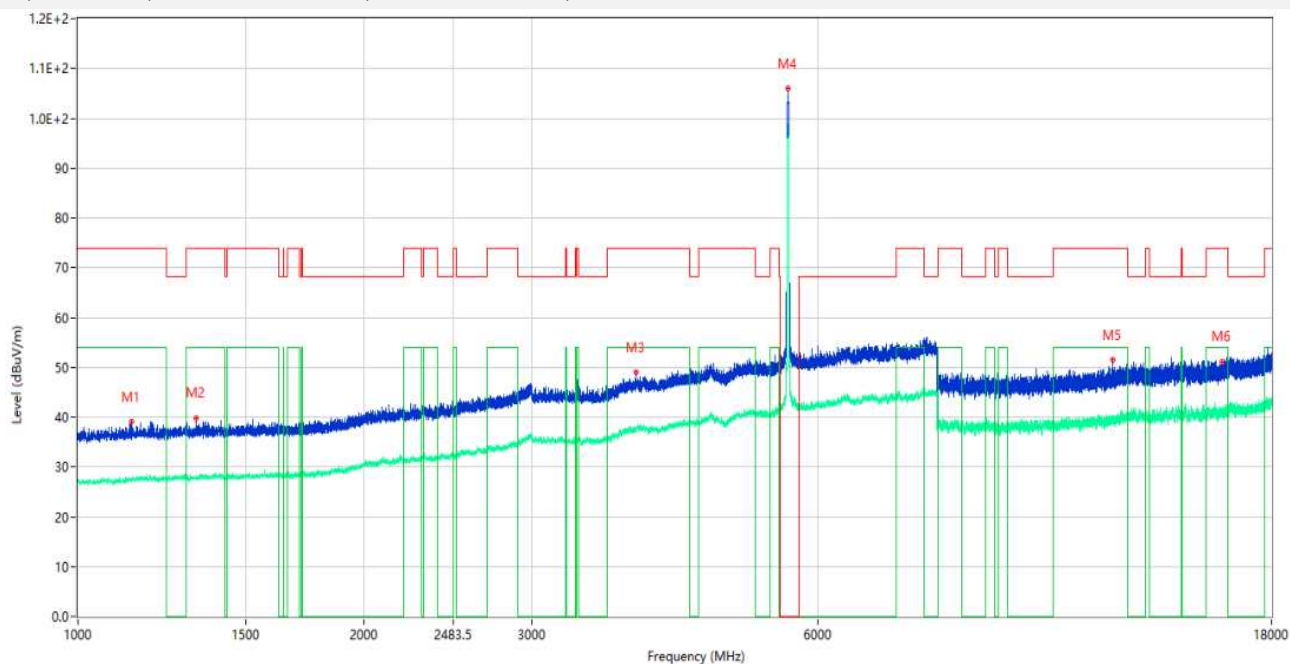
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1192.750	41.45	-15.27	74.0	32.55	Peak	234.00	150	Horizontal	Pass
1**	1192.750	27.93	-15.27	54.0	26.07	AV	234.00	150	Horizontal	Pass
2	1600.750	39.17	-15.23	74.0	34.83	Peak	114.00	150	Horizontal	Pass
2**	1600.750	28.06	-15.23	54.0	25.94	AV	114.00	150	Horizontal	Pass
3	3997.500	48.87	-4.00	74.0	25.13	Peak	188.00	150	Horizontal	Pass
3**	3997.500	37.71	-4.00	54.0	16.29	AV	188.00	150	Horizontal	Pass
4	5276.500	100.41	-0.82	--	-36.41	Peak	64.00	150	Horizontal	N/A
4**	5276.500	90.94	-0.82	--	-90.94	AV	64.00	150	Horizontal	N/A
5	12270.250	50.34	-1.08	74.0	23.66	Peak	3.00	150	Horizontal	Pass
5**	12270.250	40.09	-1.08	54.0	13.91	AV	3.00	150	Horizontal	Pass
6	15712.575	51.74	1.39	74.0	22.26	Peak	261.00	150	Horizontal	Pass
6**	15712.575	41.35	1.39	54.0	12.65	AV	261.00	150	Horizontal	Pass

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



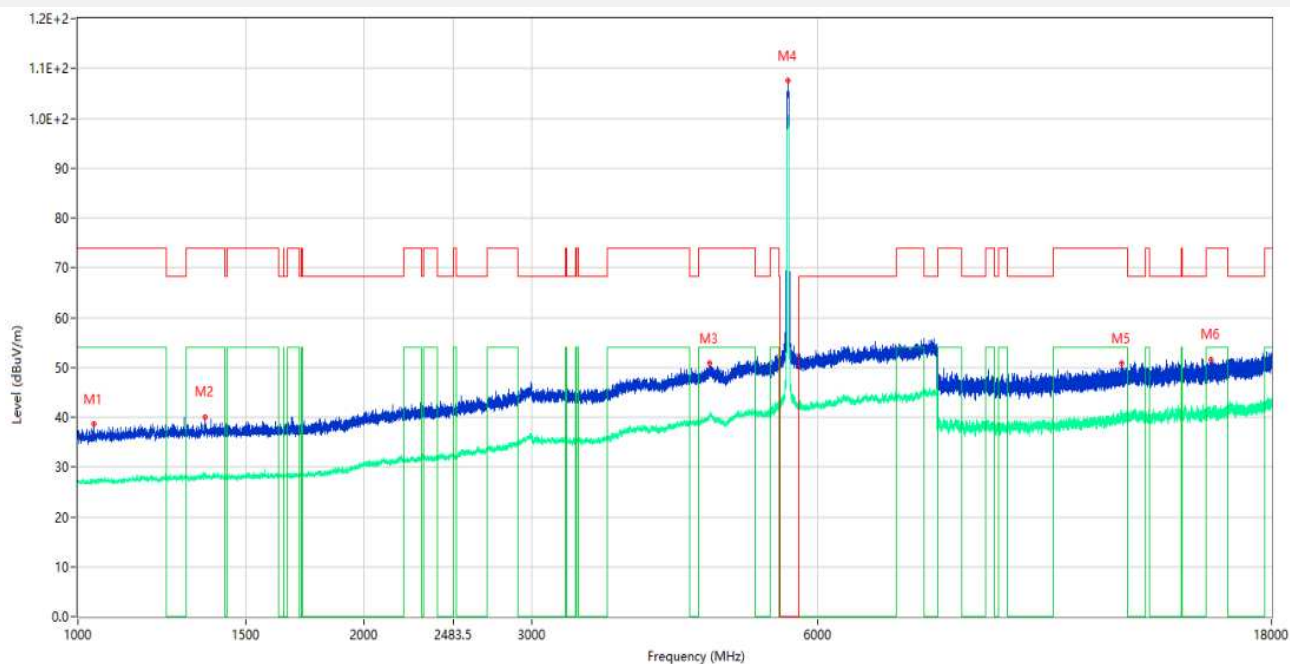
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.000	38.92	-15.46	74.0	35.08	Peak	218.00	150	Vertical	Pass
1**	1164.000	27.55	-15.46	54.0	26.45	AV	218.00	150	Vertical	Pass
2	1455.500	39.46	-15.41	74.0	34.54	Peak	72.00	150	Vertical	Pass
2**	1455.500	28.31	-15.41	54.0	25.69	AV	72.00	150	Vertical	Pass
3	3934.500	49.03	-2.86	74.0	24.97	Peak	108.00	150	Vertical	Pass
3**	3934.500	38.10	-2.86	54.0	15.90	AV	108.00	150	Vertical	Pass
4	5283.000	103.46	-0.76	--	181.54	Peak	285.00	150	Vertical	N/A
4**	5283.000	93.55	-0.76	--	-93.55	AV	285.00	150	Vertical	N/A
5	11621.875	50.02	-1.08	74.0	23.98	Peak	60.00	150	Vertical	Pass
5**	11621.875	39.02	-1.08	54.0	14.98	AV	60.00	150	Vertical	Pass
6	15713.887	51.64	1.16	74.0	22.36	Peak	0.00	150	Vertical	Pass
6**	15713.887	40.82	1.16	54.0	13.18	AV	0.00	150	Vertical	Pass

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



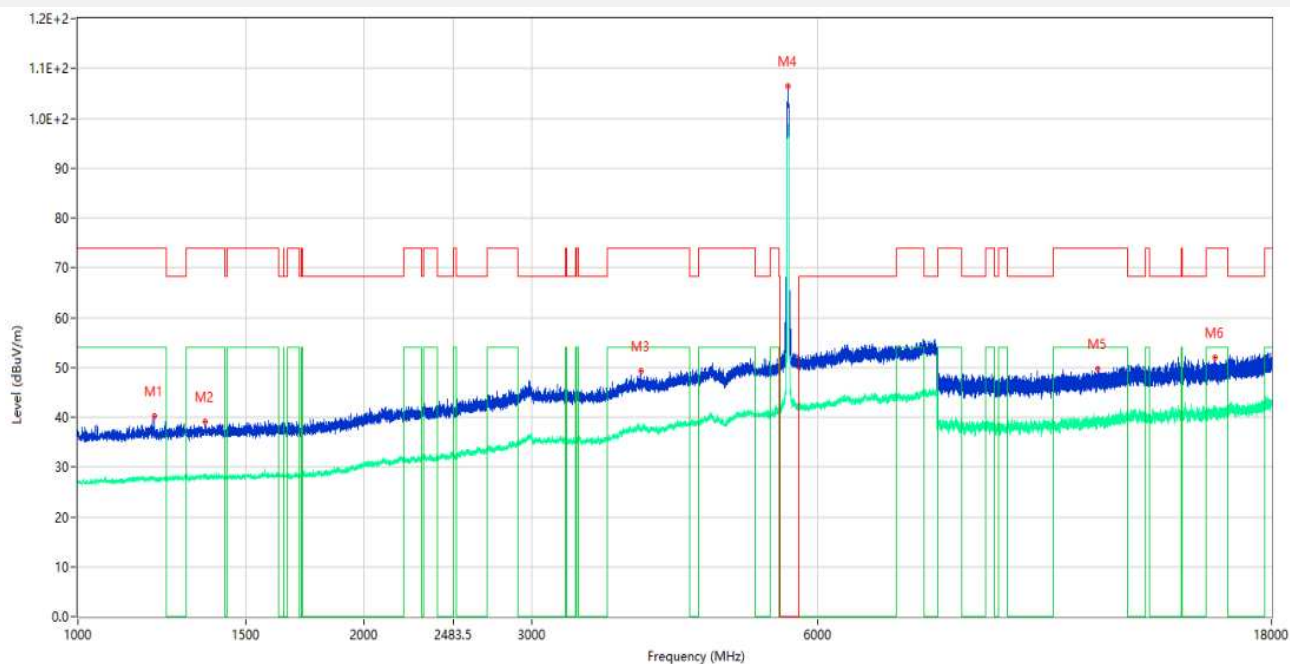
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1138.750	39.14	-15.40	74.0	34.86	Peak	352.00	100	Horizontal	Pass
1**	1138.750	27.59	-15.40	54.0	26.41	AV	352.00	100	Horizontal	Pass
2	1331.750	39.87	-15.53	74.0	34.13	Peak	112.00	100	Horizontal	Pass
2**	1331.750	28.17	-15.53	54.0	25.83	AV	112.00	100	Horizontal	Pass
3	3863.000	49.06	-4.58	74.0	24.94	Peak	76.00	100	Horizontal	Pass
3**	3863.000	37.29	-4.58	54.0	16.71	AV	76.00	100	Horizontal	Pass
4	5579.000	105.92	-0.74	--	11.08	Peak	117.00	100	Horizontal	N/A
4**	5579.000	98.38	-0.74	--	-98.38	AV	117.00	100	Horizontal	N/A
5	12264.313	51.46	-1.15	74.0	22.54	Peak	258.00	100	Horizontal	Pass
5**	12264.313	39.85	-1.15	54.0	14.15	AV	258.00	100	Horizontal	Pass
6	15952.763	51.01	1.15	74.0	22.99	Peak	332.00	100	Horizontal	Pass
6**	15952.763	41.04	1.15	54.0	12.96	AV	332.00	100	Horizontal	Pass

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



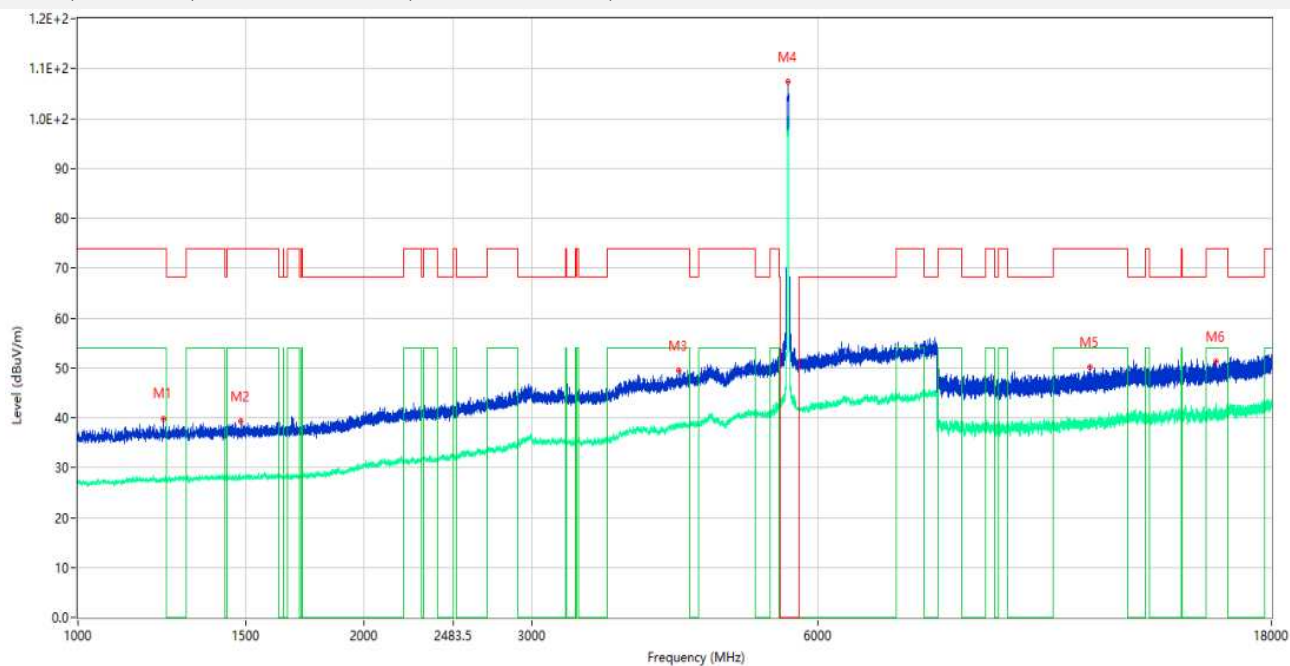
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1038.000	38.73	-15.81	74.0	35.27	Peak	19.00	100	Vertical	Pass
1**	1038.000	27.18	-15.81	54.0	26.82	AV	19.00	100	Vertical	Pass
2	1359.750	40.00	-15.35	74.0	34.00	Peak	360.00	100	Vertical	Pass
2**	1359.750	28.12	-15.35	54.0	25.88	AV	360.00	100	Vertical	Pass
3	4620.000	50.82	-1.77	74.0	23.18	Peak	0.00	100	Vertical	Pass
3**	4620.000	40.10	-1.77	54.0	13.90	AV	0.00	100	Vertical	Pass
4	5579.000	107.64	-0.74	--	189.36	Peak	297.00	100	Vertical	N/A
4**	5579.000	100.47	-0.74	--	-100.47	AV	297.00	100	Vertical	N/A
5	12515.588	50.78	-0.41	74.0	23.22	Peak	234.00	100	Vertical	Pass
5**	12515.588	39.86	-0.41	54.0	14.14	AV	234.00	100	Vertical	Pass
6	15558.225	51.52	0.65	74.0	22.48	Peak	13.00	100	Vertical	Pass
6**	15558.225	40.33	0.65	54.0	13.67	AV	13.00	100	Vertical	Pass

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



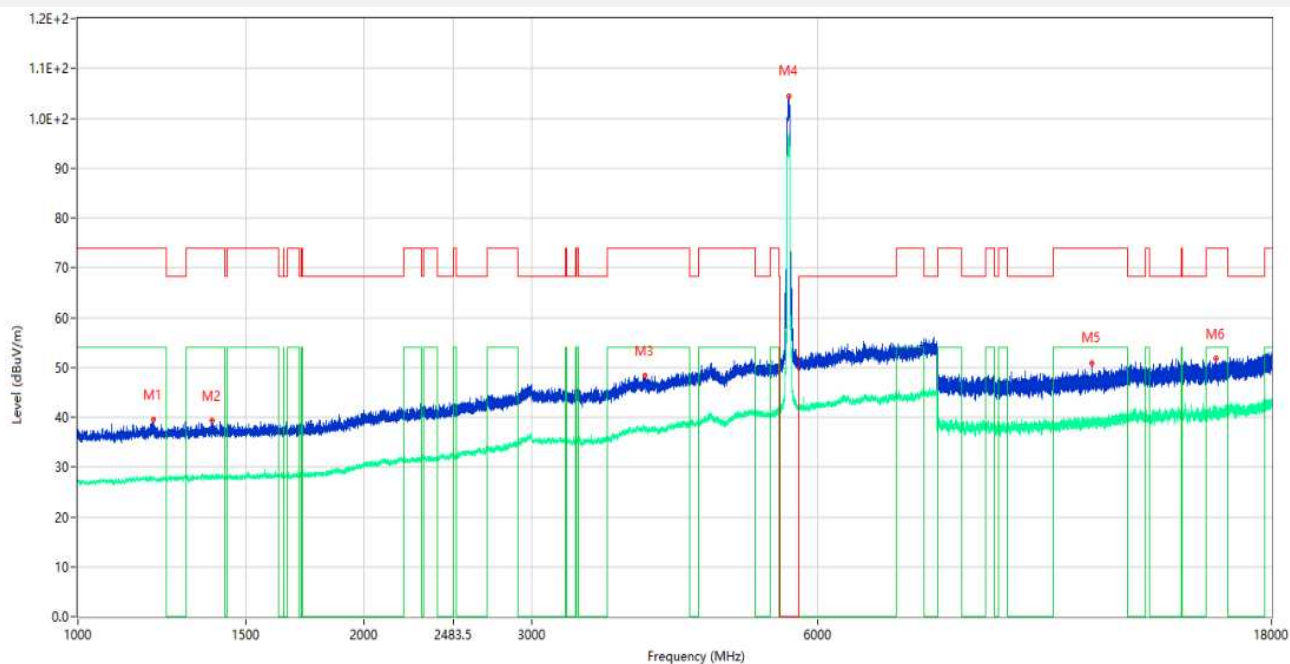
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1203.250	40.12	-15.31	74.0	33.88	Peak	227.00	100	Horizontal	Pass
1**	1203.250	27.72	-15.31	54.0	26.28	AV	227.00	100	Horizontal	Pass
2	1360.250	39.15	-15.35	74.0	34.85	Peak	360.00	100	Horizontal	Pass
2**	1360.250	28.08	-15.35	54.0	25.92	AV	360.00	100	Horizontal	Pass
3	3911.000	49.25	-3.48	74.0	24.75	Peak	0.00	100	Horizontal	Pass
3**	3911.000	37.38	-3.48	54.0	16.62	AV	0.00	100	Horizontal	Pass
4	5577.500	106.40	-0.75	--	-0.40	Peak	106.00	100	Horizontal	N/A
4**	5577.500	98.02	-0.75	--	-98.02	AV	106.00	100	Horizontal	N/A
5	11817.575	49.67	-1.18	74.0	24.33	Peak	62.00	100	Horizontal	Pass
5**	11817.575	39.15	-1.18	54.0	14.85	AV	62.00	100	Horizontal	Pass
6	15675.825	51.87	1.34	74.0	22.13	Peak	50.00	100	Horizontal	Pass
6**	15675.825	41.20	1.34	54.0	12.80	AV	50.00	100	Horizontal	Pass

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



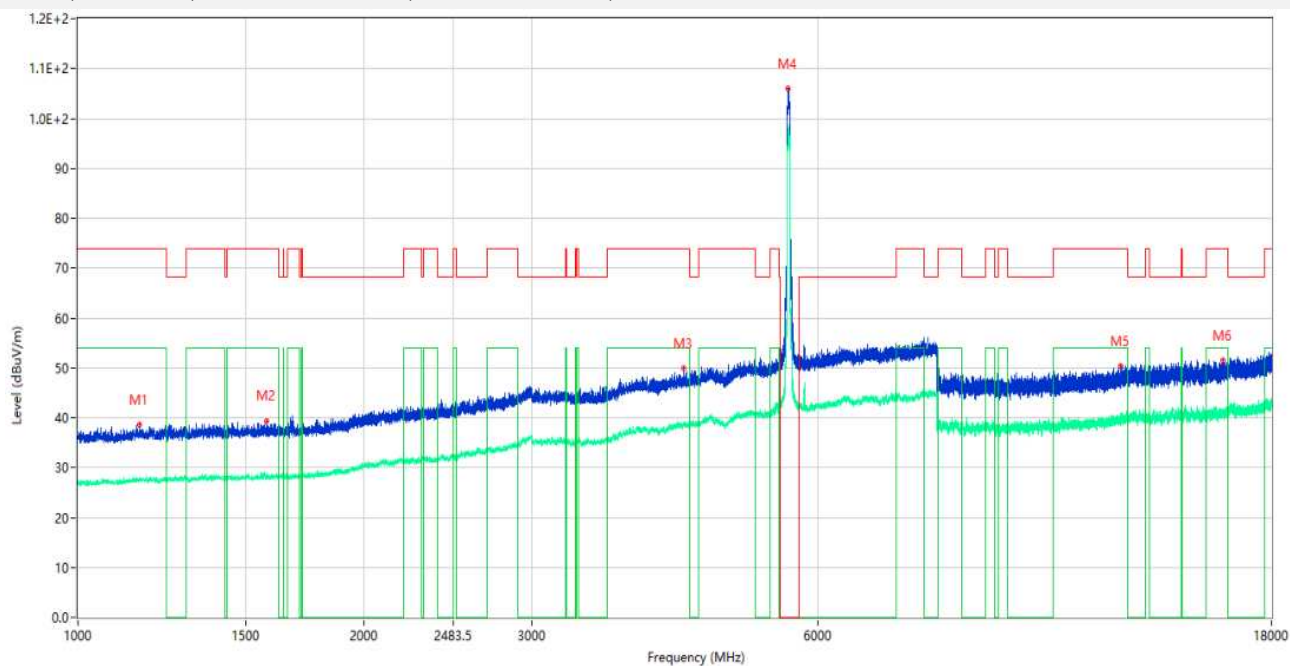
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1229.250	39.86	-15.57	74.0	34.14	Peak	283.00	100	Vertical	Pass
1**	1229.250	27.51	-15.57	54.0	26.49	AV	283.00	100	Vertical	Pass
2	1482.750	39.39	-15.67	74.0	34.61	Peak	30.00	100	Vertical	Pass
2**	1482.750	27.76	-15.67	54.0	26.24	AV	30.00	100	Vertical	Pass
3	4287.500	49.60	-3.02	74.0	24.40	Peak	0.00	100	Vertical	Pass
3**	4287.500	38.17	-3.02	54.0	15.83	AV	0.00	100	Vertical	Pass
4	5582.000	107.33	-0.70	--	176.67	Peak	284.00	100	Vertical	N/A
4**	5582.000	100.22	-0.70	--	-100.22	AV	284.00	100	Vertical	N/A
5	11596.225	50.07	-1.02	74.0	23.93	Peak	1.00	100	Vertical	Pass
5**	11596.225	38.83	-1.02	54.0	15.17	AV	1.00	100	Vertical	Pass
6	15719.400	51.21	1.33	74.0	22.79	Peak	360.00	100	Vertical	Pass
6**	15719.400	40.88	1.33	54.0	13.12	AV	360.00	100	Vertical	Pass

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



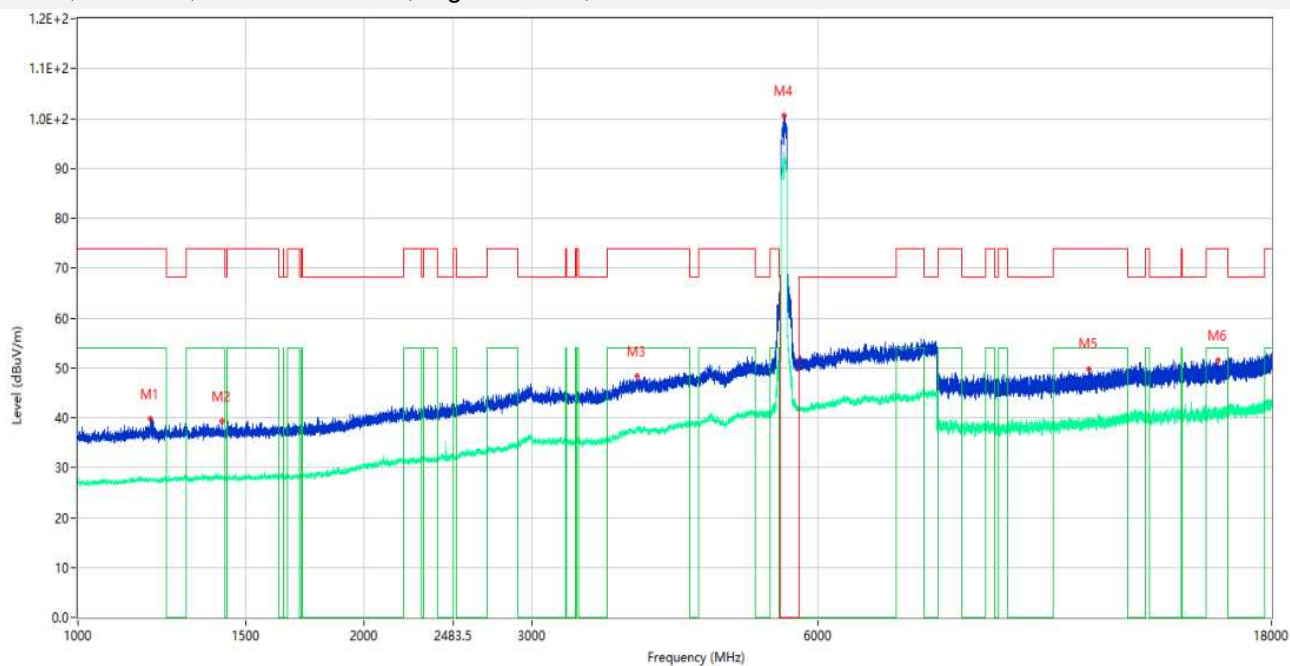
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.000	39.55	-15.31	74.0	34.45	Peak	267.00	100	Horizontal	Pass
1**	1200.000	27.95	-15.31	54.0	26.05	AV	267.00	100	Horizontal	Pass
2	1383.750	39.23	-15.51	74.0	34.77	Peak	360.00	100	Horizontal	Pass
2**	1383.750	28.26	-15.51	54.0	25.74	AV	360.00	100	Horizontal	Pass
3	3944.000	48.38	-3.61	74.0	25.62	Peak	96.00	100	Horizontal	Pass
3**	3944.000	37.39	-3.61	54.0	16.61	AV	96.00	100	Horizontal	Pass
4	5588.000	104.51	-0.60	--	10.49	Peak	115.00	100	Horizontal	N/A
4**	5588.000	96.45	-0.60	--	-96.45	AV	115.00	100	Horizontal	N/A
5	11644.438	50.96	-1.27	74.0	23.04	Peak	158.00	100	Horizontal	Pass
5**	11644.438	39.18	-1.27	54.0	14.82	AV	158.00	100	Horizontal	Pass
6	15729.375	51.72	0.86	74.0	22.28	Peak	88.00	100	Horizontal	Pass
6**	15729.375	41.12	0.86	54.0	12.88	AV	88.00	100	Horizontal	Pass

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



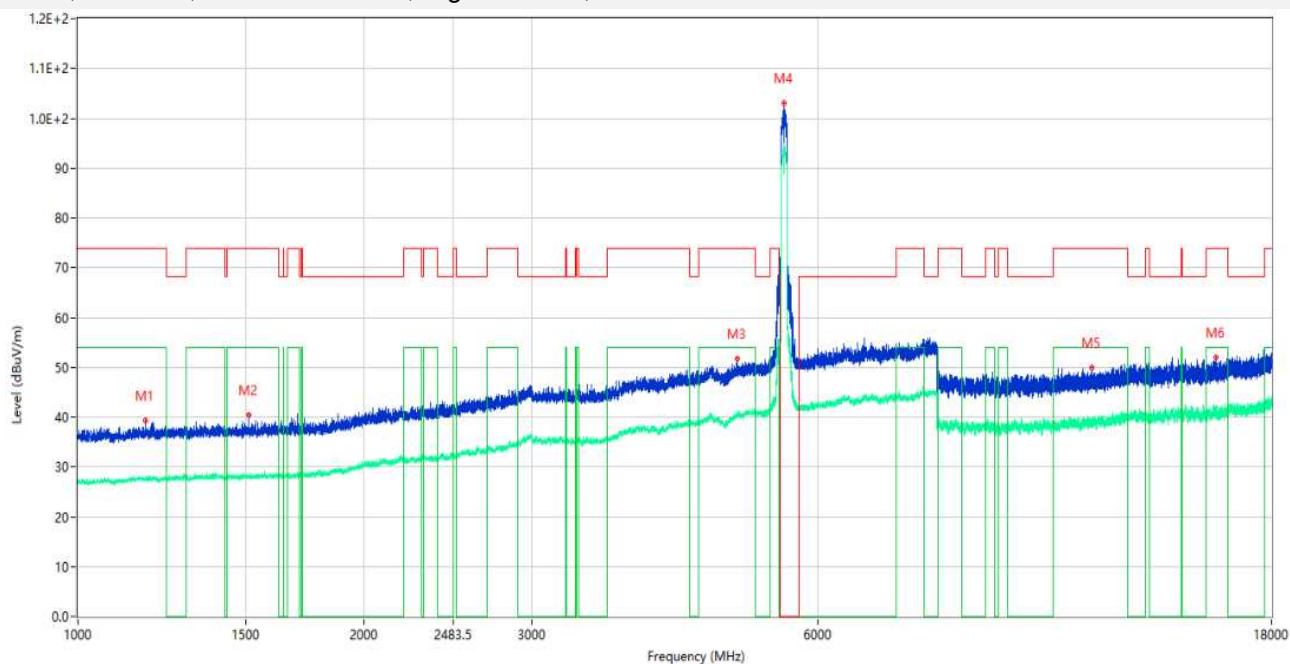
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.500	38.54	-15.47	74.0	35.46	Peak	221.00	100	Vertical	Pass
1**	1161.500	27.52	-15.47	54.0	26.48	AV	221.00	100	Vertical	Pass
2	1581.000	39.41	-15.55	74.0	34.59	Peak	2.00	100	Vertical	Pass
2**	1581.000	28.28	-15.55	54.0	25.72	AV	2.00	100	Vertical	Pass
3	4337.500	49.88	-2.36	74.0	24.12	Peak	230.00	100	Vertical	Pass
3**	4337.500	38.88	-2.36	54.0	15.12	AV	230.00	100	Vertical	Pass
4	5587.000	106.00	-0.61	--	188.00	Peak	294.00	100	Vertical	N/A
4**	5587.000	98.06	-0.61	--	-98.06	AV	294.00	100	Vertical	N/A
5	12491.362	50.41	0.16	74.0	23.59	Peak	37.00	100	Vertical	Pass
5**	12491.362	40.64	0.16	54.0	13.36	AV	37.00	100	Vertical	Pass
6	16003.687	51.54	1.00	74.0	22.46	Peak	333.00	100	Vertical	Pass
6**	16003.687	40.85	1.00	54.0	13.15	AV	333.00	100	Vertical	Pass

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



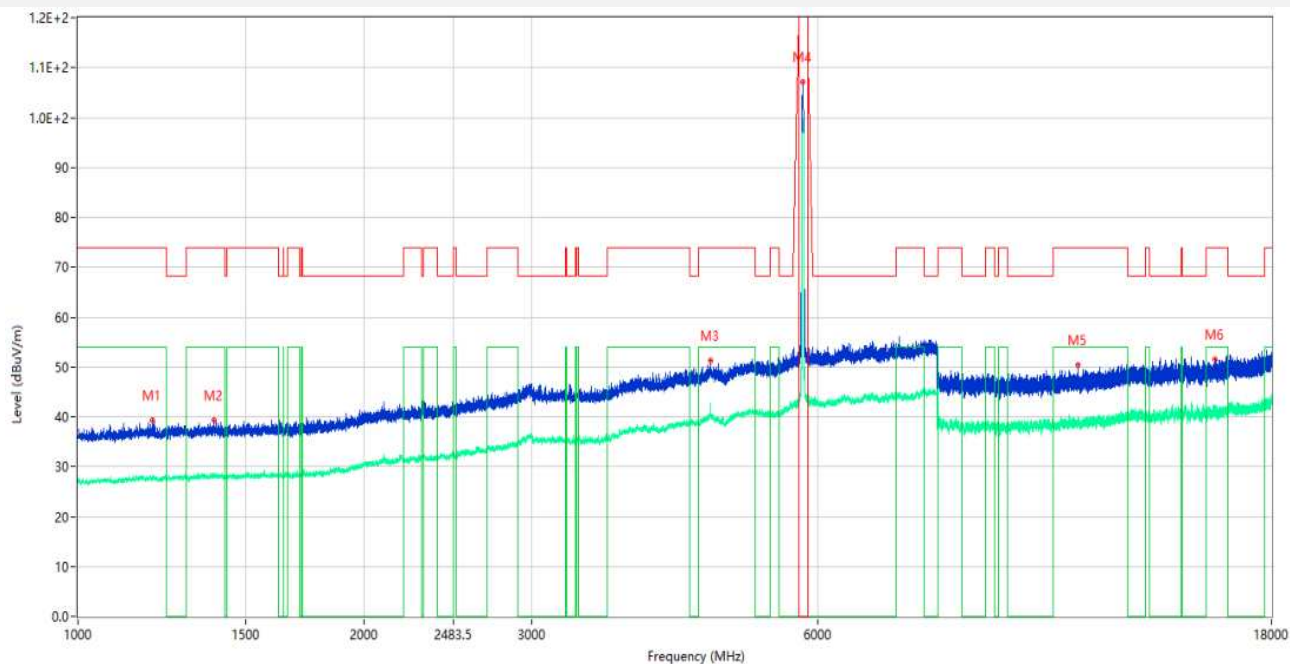
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1192.250	39.80	-15.27	74.0	34.20	Peak	276.00	100	Horizontal	Pass
1**	1192.250	27.51	-15.27	54.0	26.49	AV	276.00	100	Horizontal	Pass
2	1415.750	39.35	-15.37	74.0	34.65	Peak	251.00	100	Horizontal	Pass
2**	1415.750	28.00	-15.37	54.0	26.00	AV	251.00	100	Horizontal	Pass
3	3873.000	48.37	-4.15	74.0	25.63	Peak	212.00	100	Horizontal	Pass
3**	3873.000	37.62	-4.15	54.0	16.38	AV	212.00	100	Horizontal	Pass
4	5527.500	100.48	-0.62	--	-26.48	Peak	74.00	100	Horizontal	N/A
4**	5527.500	92.60	-0.62	--	-92.60	AV	74.00	100	Horizontal	N/A
5	11568.675	49.82	-1.23	74.0	24.18	Peak	207.00	100	Horizontal	Pass
5**	11568.675	38.74	-1.23	54.0	15.26	AV	207.00	100	Horizontal	Pass
6	15789.750	51.42	1.08	74.0	22.58	Peak	360.00	100	Horizontal	Pass
6**	15789.750	40.37	1.08	54.0	13.63	AV	360.00	100	Horizontal	Pass

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



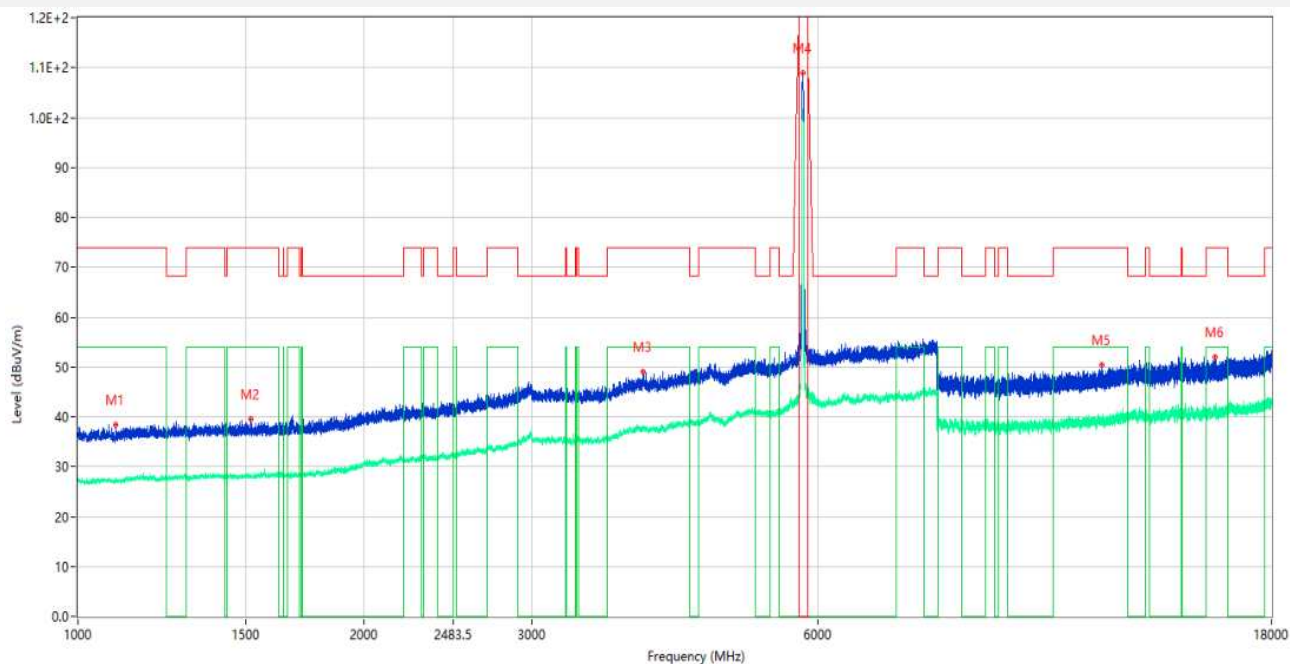
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1177.000	39.29	-15.51	74.0	34.71	Peak	272.00	150	Vertical	Pass
1**	1177.000	27.65	-15.51	54.0	26.35	AV	272.00	150	Vertical	Pass
2	1512.750	40.39	-15.24	74.0	33.61	Peak	313.00	150	Vertical	Pass
2**	1512.750	28.31	-15.24	54.0	25.69	AV	313.00	150	Vertical	Pass
3	4941.000	51.74	-0.52	74.0	22.26	Peak	274.00	150	Vertical	Pass
3**	4941.000	40.65	-0.52	54.0	13.35	AV	274.00	150	Vertical	Pass
4	5523.500	103.13	-0.70	--	192.87	Peak	296.00	150	Vertical	N/A
4**	5523.500	94.04	-0.70	--	-94.04	AV	296.00	150	Vertical	N/A
5	11648.474	49.96	-1.22	74.0	24.04	Peak	132.00	150	Vertical	Pass
5**	11648.474	38.59	-1.22	54.0	15.41	AV	132.00	150	Vertical	Pass
6	15713.362	51.87	1.25	74.0	22.13	Peak	15.00	150	Vertical	Pass
6**	15713.362	41.58	1.25	54.0	12.42	AV	15.00	150	Vertical	Pass

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



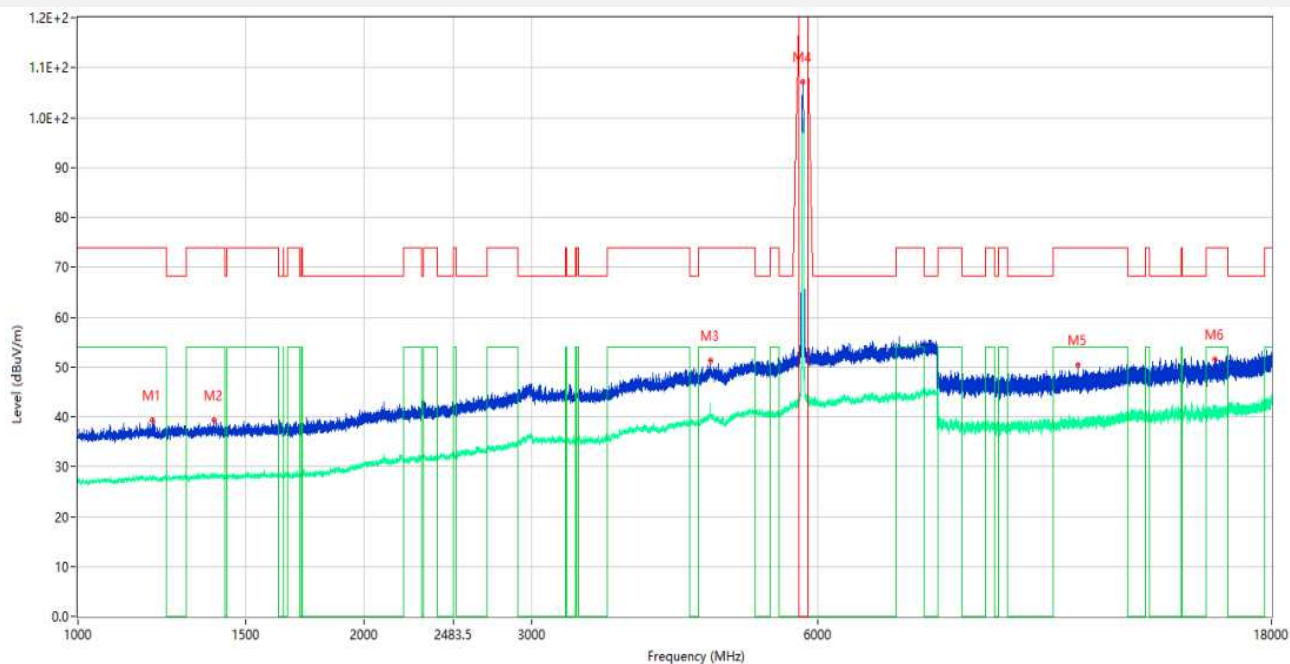
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1198.000	39.24	-15.27	74.0	34.76	Peak	229.00	150	Horizontal	Pass
1**	1198.000	27.84	-15.27	54.0	26.16	AV	229.00	150	Horizontal	Pass
2	1388.750	39.33	-15.50	74.0	34.67	Peak	0.00	150	Horizontal	Pass
2**	1388.750	28.04	-15.50	54.0	25.96	AV	0.00	150	Horizontal	Pass
3	4628.000	51.19	-1.51	74.0	22.81	Peak	5.00	150	Horizontal	Pass
3**	4628.000	40.87	-1.51	54.0	13.13	AV	5.00	150	Horizontal	Pass
4	5787.500	107.12	0.36	--	-42.12	Peak	65.00	150	Horizontal	N/A
4**	5787.500	99.12	0.36	--	-99.12	AV	65.00	150	Horizontal	N/A
5	11266.575	50.29	-1.54	74.0	23.71	Peak	323.00	150	Horizontal	Pass
5**	11266.575	38.51	-1.54	54.0	15.49	AV	323.00	150	Horizontal	Pass
6	15706.276	51.52	1.30	74.0	22.48	Peak	237.00	150	Horizontal	Pass
6**	15706.276	41.78	1.30	54.0	12.22	AV	237.00	150	Horizontal	Pass

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



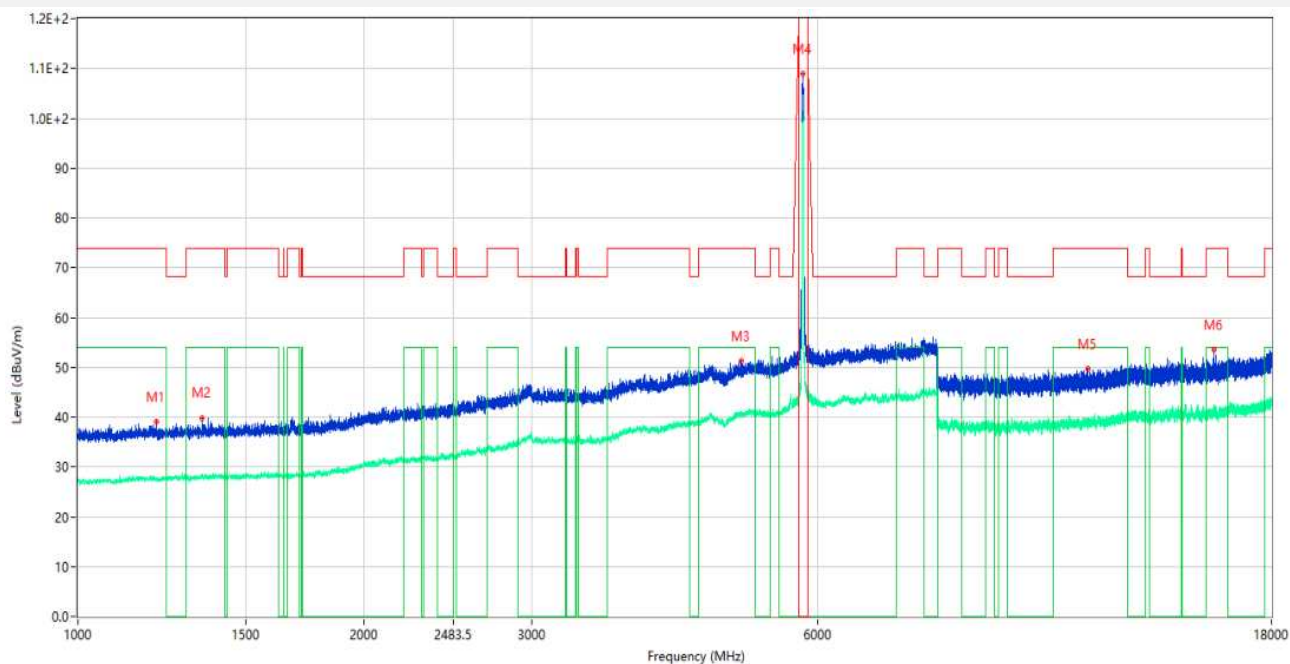
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1095.000	38.37	-15.74	74.0	35.63	Peak	108.00	150	Vertical	Pass
1**	1095.000	27.11	-15.74	54.0	26.89	AV	108.00	150	Vertical	Pass
2	1520.750	39.49	-15.36	74.0	34.51	Peak	0.00	150	Vertical	Pass
2**	1520.750	28.34	-15.36	54.0	25.66	AV	0.00	150	Vertical	Pass
3	3929.500	48.96	-2.57	74.0	25.04	Peak	8.00	150	Vertical	Pass
3**	3929.500	37.52	-2.57	54.0	16.48	AV	8.00	150	Vertical	Pass
4	5781.500	108.89	0.35	--	164.11	Peak	273.00	150	Vertical	N/A
4**	5781.500	100.23	0.35	--	-100.23	AV	273.00	150	Vertical	N/A
5	11933.712	50.51	-1.19	74.0	23.49	Peak	29.00	150	Vertical	Pass
5**	11933.712	38.99	-1.19	54.0	15.01	AV	29.00	150	Vertical	Pass
6	15713.100	52.01	1.29	74.0	21.99	Peak	101.00	150	Vertical	Pass
6**	15713.100	41.31	1.29	54.0	12.69	AV	101.00	150	Vertical	Pass

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



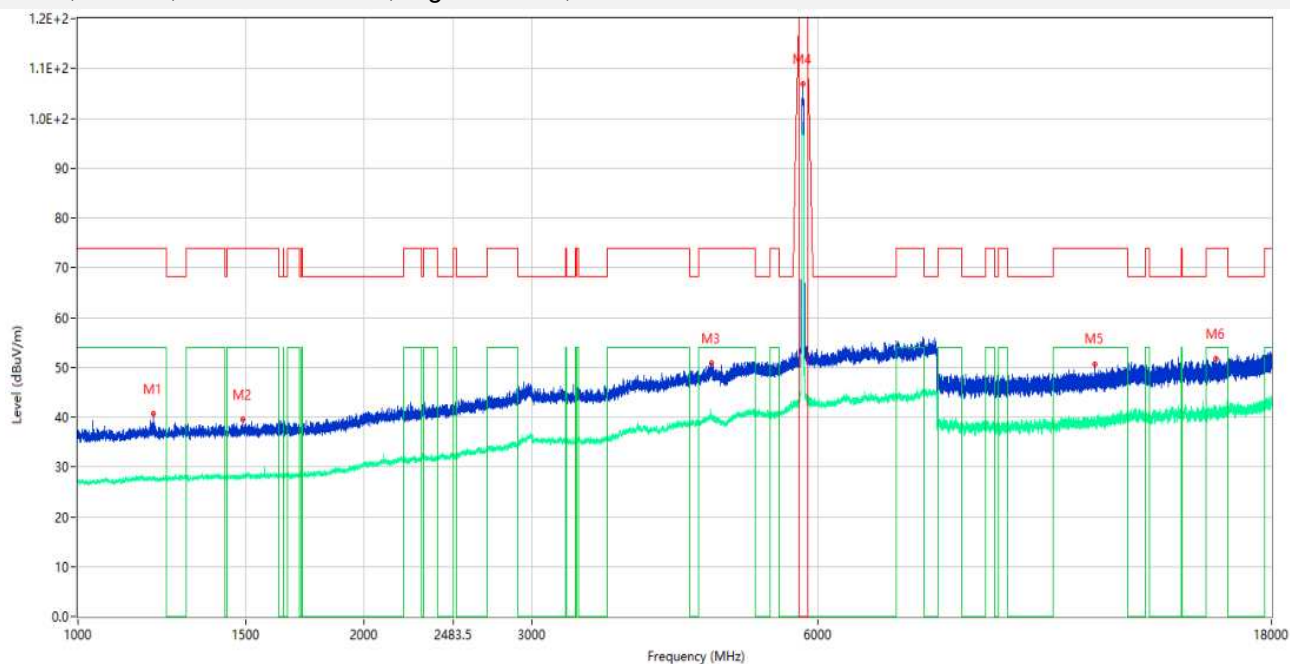
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.750	40.63	-15.31	74.0	33.37	Peak	237.00	150	Horizontal	Pass
1**	1199.750	27.73	-15.31	54.0	26.27	AV	237.00	150	Horizontal	Pass
2	1491.500	39.49	-15.53	74.0	34.51	Peak	196.00	150	Horizontal	Pass
2**	1491.500	28.02	-15.53	54.0	25.98	AV	196.00	150	Horizontal	Pass
3	4640.000	50.93	-1.87	74.0	23.07	Peak	356.00	150	Horizontal	Pass
3**	4640.000	40.23	-1.87	54.0	13.77	AV	356.00	150	Horizontal	Pass
4	5786.000	106.94	0.38	--	-31.94	Peak	75.00	150	Horizontal	N/A
4**	5786.000	99.23	0.38	--	-99.23	AV	75.00	150	Horizontal	N/A
5	11745.613	50.73	-1.24	74.0	23.27	Peak	0.00	150	Horizontal	Pass
5**	11745.613	38.94	-1.24	54.0	15.06	AV	0.00	150	Horizontal	Pass
6	15722.812	51.72	1.37	74.0	22.28	Peak	99.00	150	Horizontal	Pass
6**	15722.812	42.06	1.37	54.0	11.94	AV	99.00	150	Horizontal	Pass

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



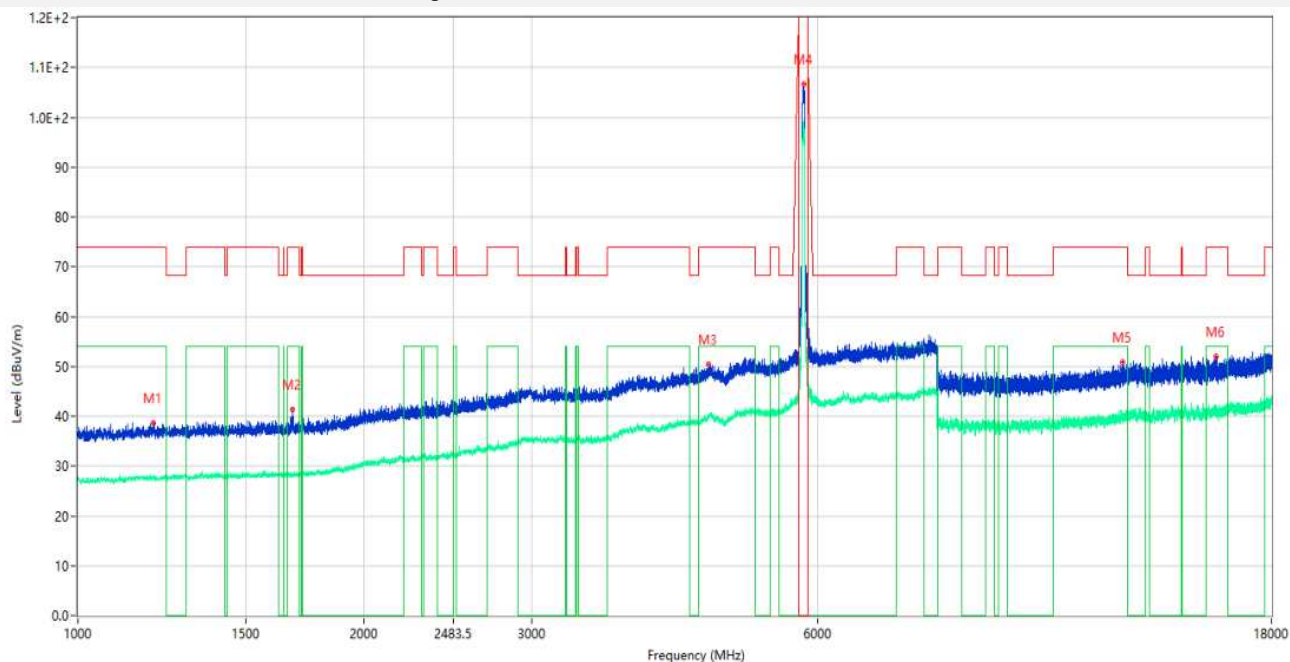
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1208.000	39.00	-15.46	74.0	35.00	Peak	22.00	150	Vertical	Pass
1**	1208.000	27.35	-15.46	54.0	26.65	AV	22.00	150	Vertical	Pass
2	1351.750	39.86	-15.30	74.0	34.14	Peak	333.00	150	Vertical	Pass
2**	1351.750	28.00	-15.30	54.0	26.00	AV	333.00	150	Vertical	Pass
3	4990.000	51.27	-1.02	74.0	22.73	Peak	161.00	150	Vertical	Pass
3**	4990.000	40.20	-1.02	54.0	13.80	AV	161.00	150	Vertical	Pass
4	5786.500	108.94	0.39	--	176.06	Peak	285.00	150	Vertical	N/A
4**	5786.500	101.58	0.39	--	-101.58	AV	285.00	150	Vertical	N/A
5	11532.575	49.71	-1.05	74.0	24.29	Peak	54.00	150	Vertical	Pass
5**	11532.575	38.66	-1.05	54.0	15.34	AV	54.00	150	Vertical	Pass
6	15670.838	53.49	1.68	74.0	20.51	Peak	360.00	150	Vertical	Pass
6**	15670.838	41.95	1.68	54.0	12.05	AV	360.00	150	Vertical	Pass

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



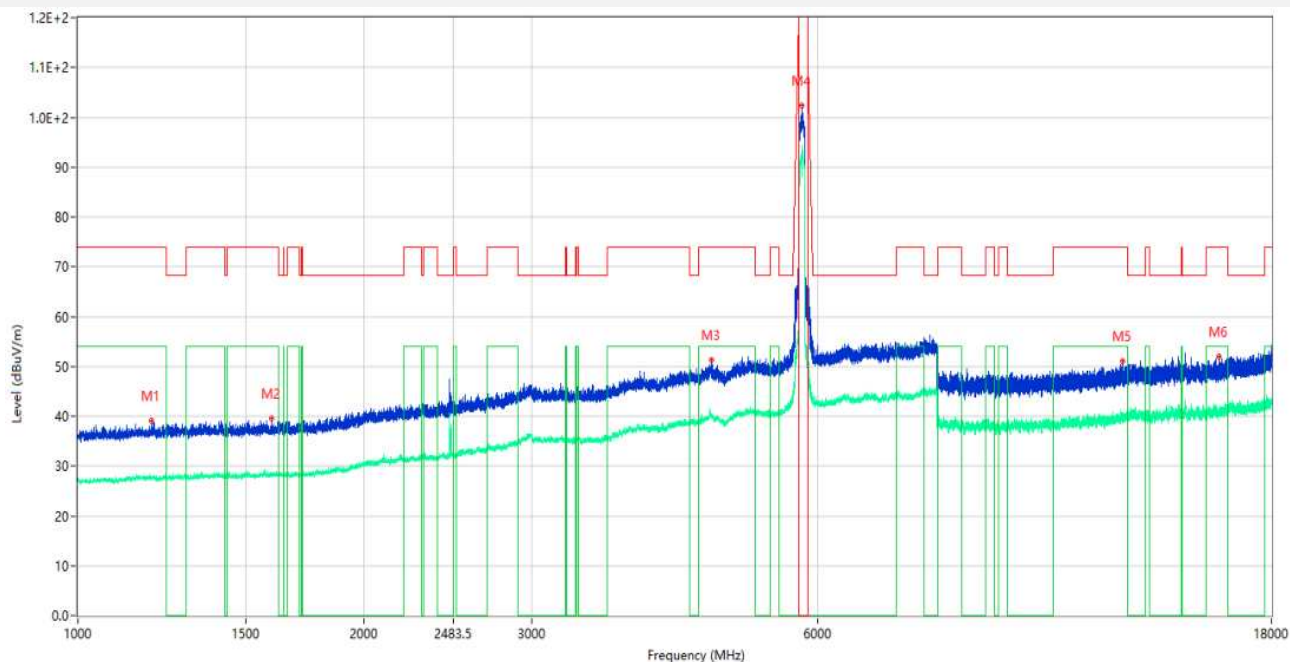
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1194.250	39.13	-15.22	74.0	34.87	Peak	234.00	150	Horizontal	Pass
1**	1194.250	27.58	-15.22	54.0	26.42	AV	234.00	150	Horizontal	Pass
2	1569.750	39.16	-15.23	74.0	34.84	Peak	219.00	150	Horizontal	Pass
2**	1569.750	28.87	-15.23	54.0	25.13	AV	219.00	150	Horizontal	Pass
3	4892.000	51.21	-1.24	74.0	22.79	Peak	1.00	150	Horizontal	Pass
3**	4892.000	40.18	-1.24	54.0	13.82	AV	1.00	150	Horizontal	Pass
4	5798.000	104.36	0.36	--	-27.36	Peak	77.00	150	Horizontal	N/A
4**	5798.000	96.09	0.36	--	-96.09	AV	77.00	150	Horizontal	N/A
5	12349.575	50.29	-0.87	74.0	23.71	Peak	31.00	150	Horizontal	Pass
5**	12349.575	39.73	-0.87	54.0	14.27	AV	31.00	150	Horizontal	Pass
6	15666.900	51.98	1.61	74.0	22.02	Peak	132.00	150	Horizontal	Pass
6**	15666.900	41.09	1.61	54.0	12.91	AV	132.00	150	Horizontal	Pass

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



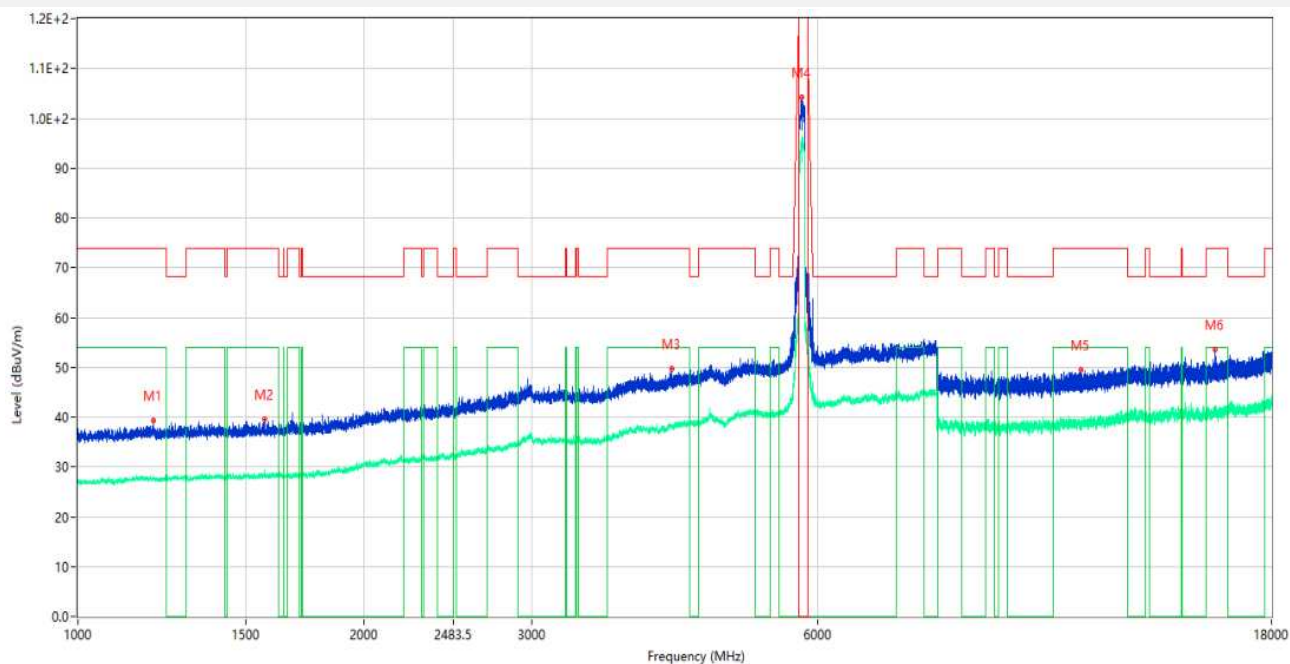
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.500	38.56	-15.30	74.0	35.44	Peak	356.00	150	Vertical	Pass
1**	1200.500	28.03	-15.30	54.0	25.97	AV	356.00	150	Vertical	Pass
2	1681.500	41.33	-15.45	74.0	32.67	Peak	254.00	150	Vertical	Pass
2**	1681.500	27.89	-15.45	54.0	26.11	AV	254.00	150	Vertical	Pass
3	4603.500	50.33	-2.57	74.0	23.67	Peak	160.00	150	Vertical	Pass
3**	4603.500	40.12	-2.57	54.0	13.88	AV	160.00	150	Vertical	Pass
4	5793.500	106.68	0.34	--	181.32	Peak	288.00	150	Vertical	N/A
4**	5793.500	99.53	0.34	--	-99.53	AV	288.00	150	Vertical	N/A
5	12545.512	50.82	-0.16	74.0	23.18	Peak	298.00	150	Vertical	Pass
5**	12545.512	40.12	-0.16	54.0	13.88	AV	298.00	150	Vertical	Pass
6	15721.238	51.95	1.41	74.0	22.05	Peak	168.00	150	Vertical	Pass
6**	15721.238	40.99	1.41	54.0	13.01	AV	168.00	150	Vertical	Pass

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1193.750	38.99	-15.23	74.0	35.01	Peak	230.00	150	Horizontal	Pass
1**	1193.750	27.75	-15.23	54.0	26.25	AV	230.00	150	Horizontal	Pass
2	1598.000	39.53	-15.28	74.0	34.47	Peak	108.00	150	Horizontal	Pass
2**	1598.000	28.17	-15.28	54.0	25.83	AV	108.00	150	Horizontal	Pass
3	4635.000	51.37	-1.73	74.0	22.63	Peak	360.00	150	Horizontal	Pass
3**	4635.000	40.43	-1.73	54.0	13.57	AV	360.00	150	Horizontal	Pass
4	5768.000	102.26	0.43	--	-6.26	Peak	96.00	150	Horizontal	N/A
4**	5768.000	92.86	0.43	--	-92.86	AV	96.00	150	Horizontal	N/A
5	12536.724	50.98	-0.30	74.0	23.02	Peak	80.00	150	Horizontal	Pass
5**	12536.724	40.67	-0.30	54.0	13.33	AV	80.00	150	Horizontal	Pass
6	15836.738	52.07	1.76	74.0	21.93	Peak	344.00	150	Horizontal	Pass
6**	15836.738	40.68	1.76	54.0	13.32	AV	344.00	150	Horizontal	Pass

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.250	39.35	-15.30	74.0	34.65	Peak	359.00	150	Vertical	Pass
1**	1199.250	27.82	-15.30	54.0	26.18	AV	359.00	150	Vertical	Pass
2	1572.500	39.46	-15.31	74.0	34.54	Peak	215.00	150	Vertical	Pass
2**	1572.500	28.91	-15.31	54.0	25.09	AV	215.00	150	Vertical	Pass
3	4210.500	49.78	-2.34	74.0	24.22	Peak	14.00	150	Vertical	Pass
3**	4210.500	38.28	-2.34	54.0	15.72	AV	14.00	150	Vertical	Pass
4	5771.500	104.20	0.46	--	168.80	Peak	273.00	150	Vertical	N/A
4**	5771.500	95.90	0.46	--	-95.90	AV	273.00	150	Vertical	N/A
5	11347.088	49.57	-1.60	74.0	24.43	Peak	360.00	150	Vertical	Pass
5**	11347.088	39.19	-1.60	54.0	14.81	AV	360.00	150	Vertical	Pass
6	15705.224	53.62	1.24	74.0	20.38	Peak	313.00	150	Vertical	Pass
6**	15705.224	40.96	1.24	54.0	13.04	AV	313.00	150	Vertical	Pass

A.7 Band Edge (Restricted-band)

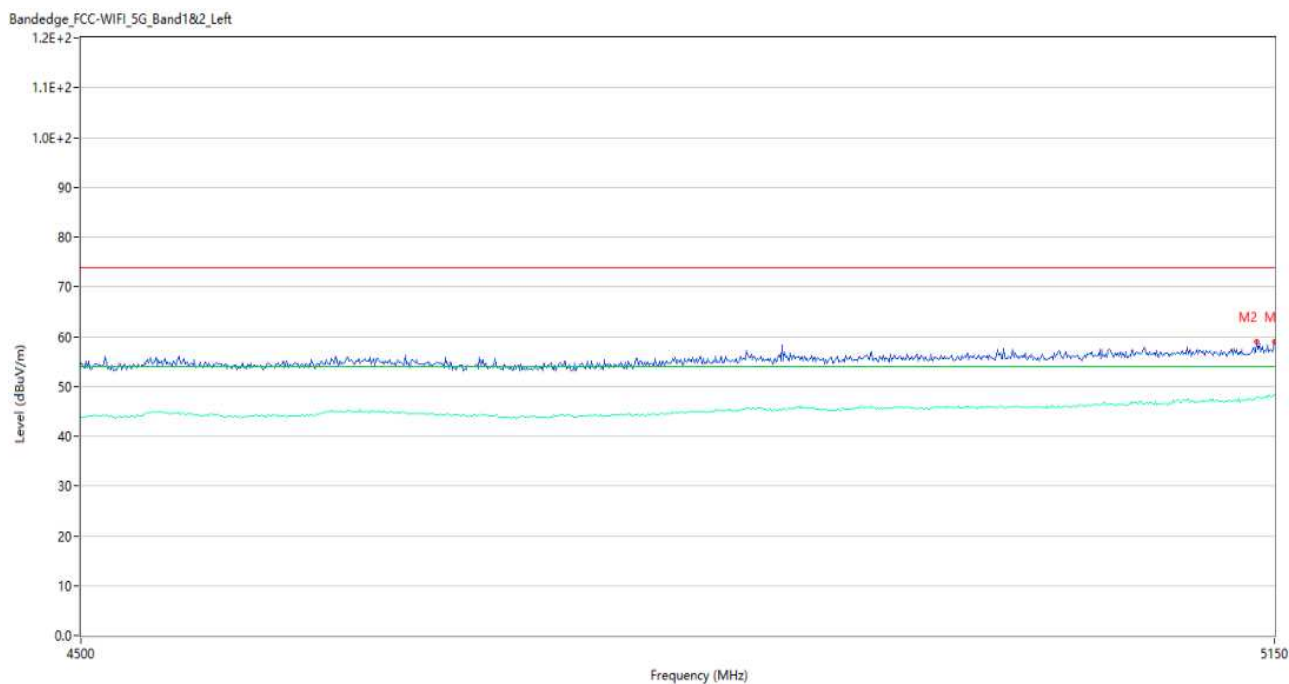
Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
U-NII-2A	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)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

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

Note 1: All the configurations were pre tested, only the worst configuration has been reported in this report.

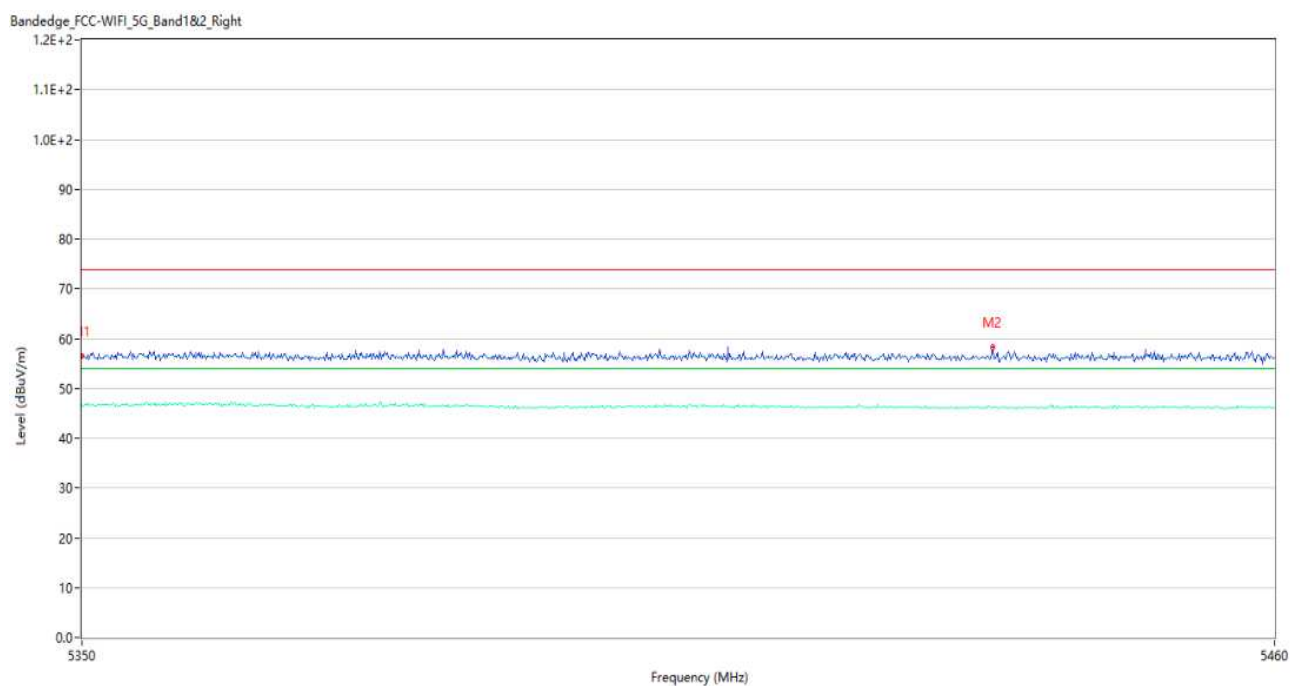
Test Data and Plots

U-NII-1 11a CH36



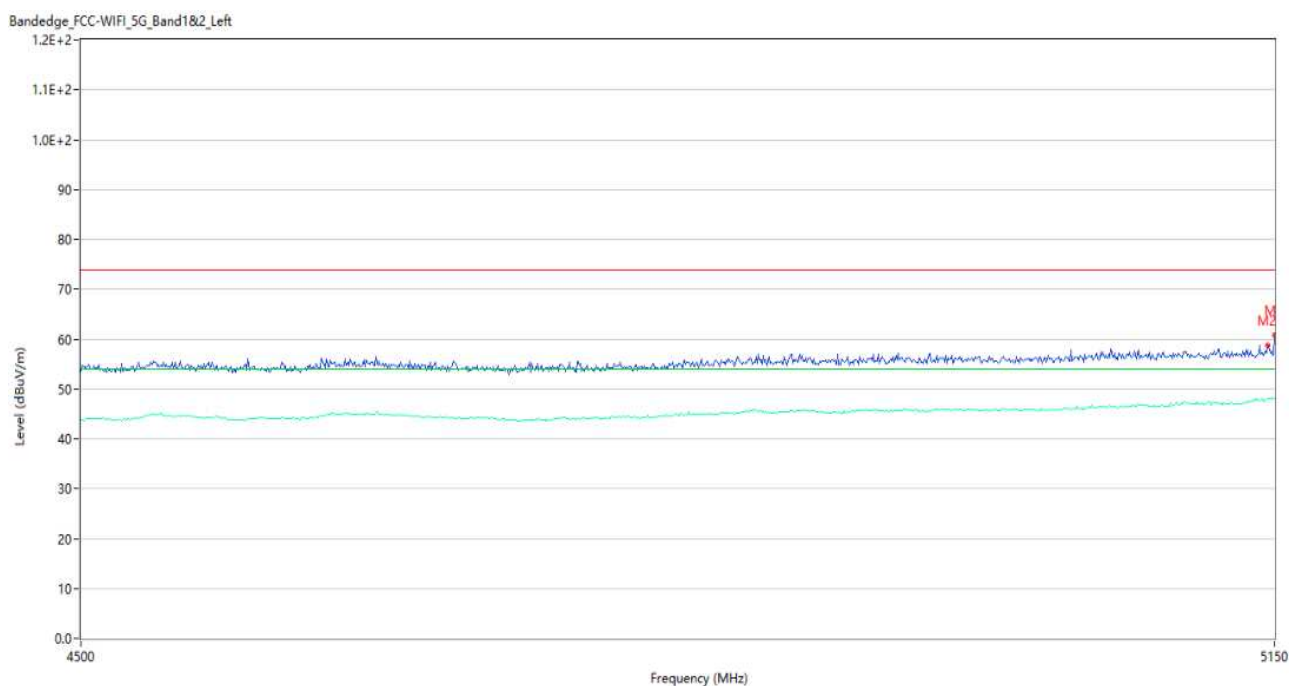
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	58.97	5.21	74.0	15.03	Peak	65.00	150	Horizontal	Pass
1**	5150.000	48.35	5.21	54.0	5.65	AV	65.00	150	Horizontal	Pass
2	5139.600	59.01	5.61	74.0	14.99	Peak	72.00	150	Horizontal	Pass
2**	5139.600	47.92	5.61	54.0	6.08	AV	72.00	150	Horizontal	Pass

U-NII-1 11a CH48



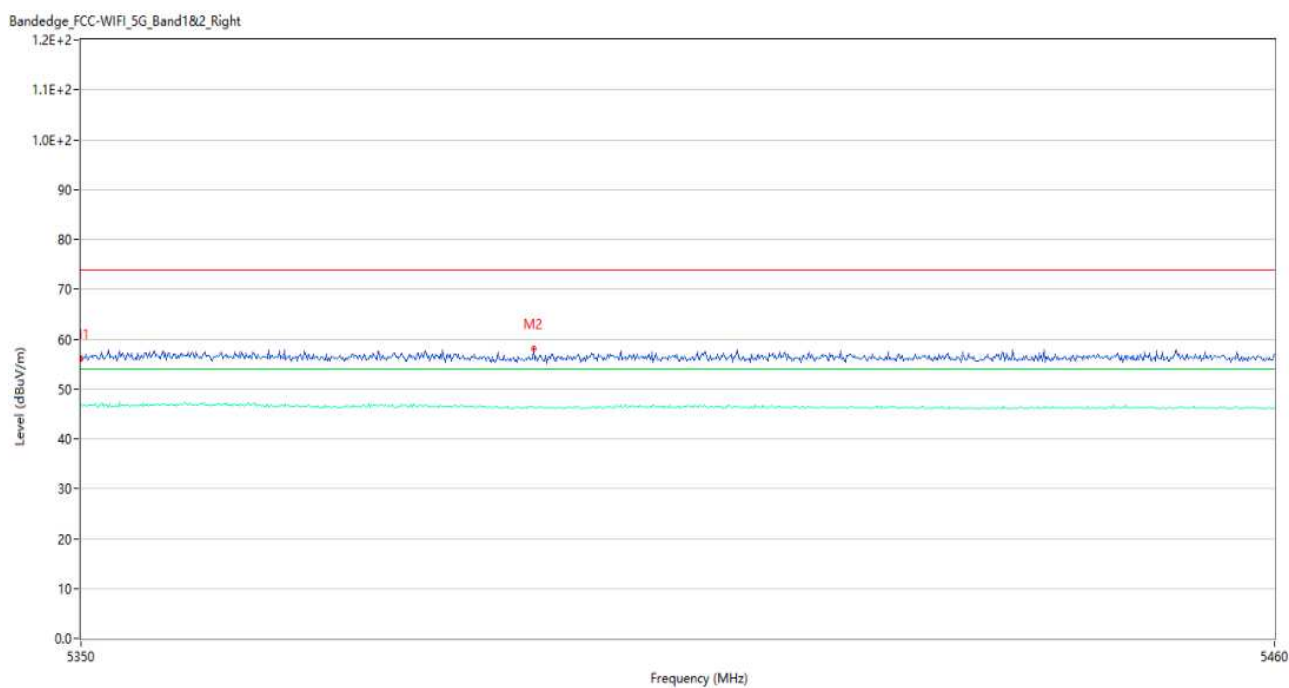
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.46	5.40	74.0	17.54	Peak	2.00	150	Vertical	Pass
1**	5350.000	46.77	5.40	54.0	7.23	AV	2.00	150	Vertical	Pass
2	5433.820	58.31	5.27	74.0	15.69	Peak	95.00	150	Vertical	Pass
2**	5433.820	46.24	5.27	54.0	7.76	AV	95.00	150	Vertical	Pass

U-NII-1 11ac20 CH36



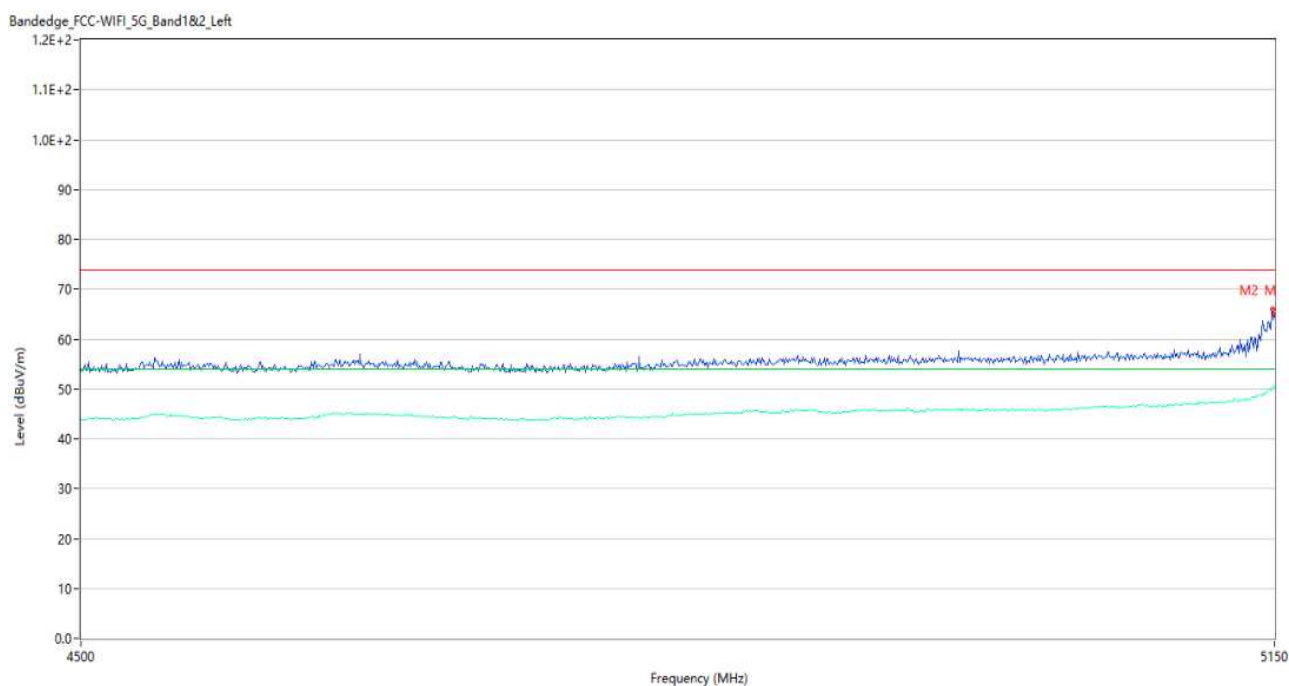
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	60.81	5.21	74.0	13.19	Peak	79.00	150	Horizontal	Pass
1**	5150.000	48.05	5.21	54.0	5.95	AV	79.00	150	Horizontal	Pass
2	5146.100	58.78	5.37	74.0	15.22	Peak	68.00	150	Horizontal	Pass
2**	5146.100	48.23	5.37	54.0	5.77	AV	68.00	150	Horizontal	Pass

U-NII-1 11ac20 CH48



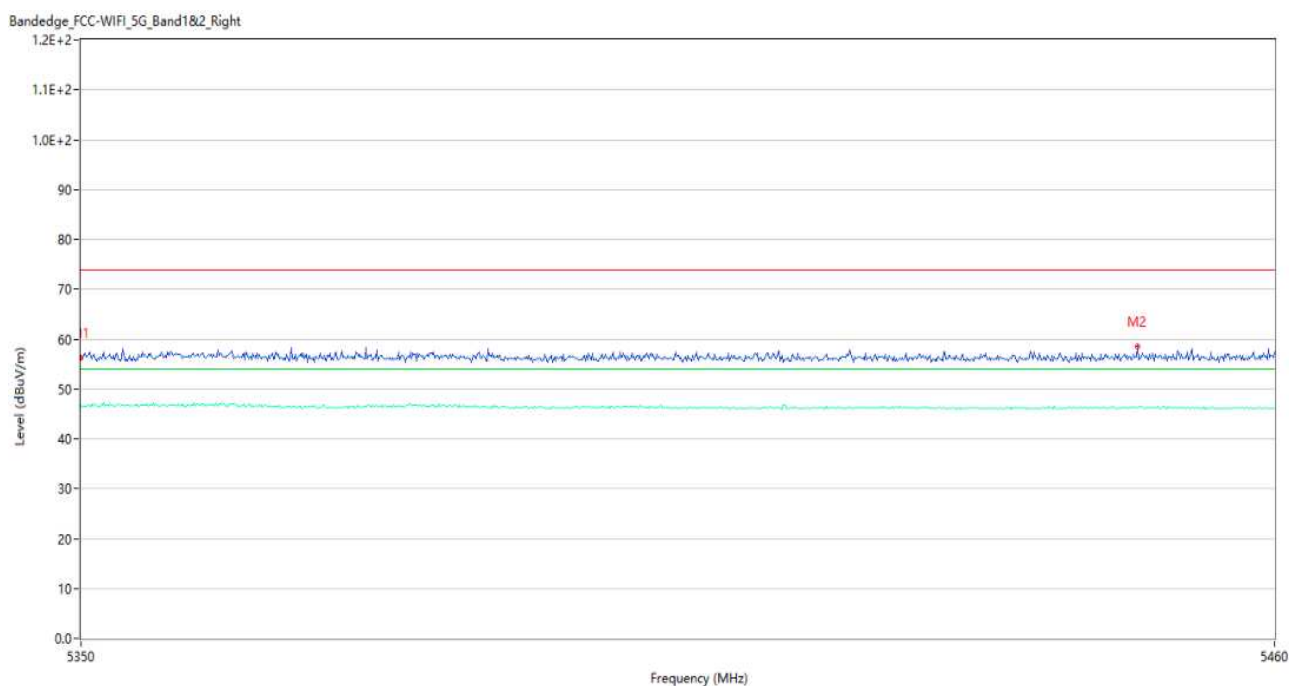
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.04	5.40	74.0	17.96	Peak	286.00	150	Vertical	Pass
1**	5350.000	47.06	5.40	54.0	6.94	AV	286.00	150	Vertical	Pass
2	5391.470	58.01	5.55	74.0	15.99	Peak	44.00	150	Vertical	Pass
2**	5391.470	46.25	5.55	54.0	7.75	AV	44.00	150	Vertical	Pass

U-NII-1 11ac40 CH38



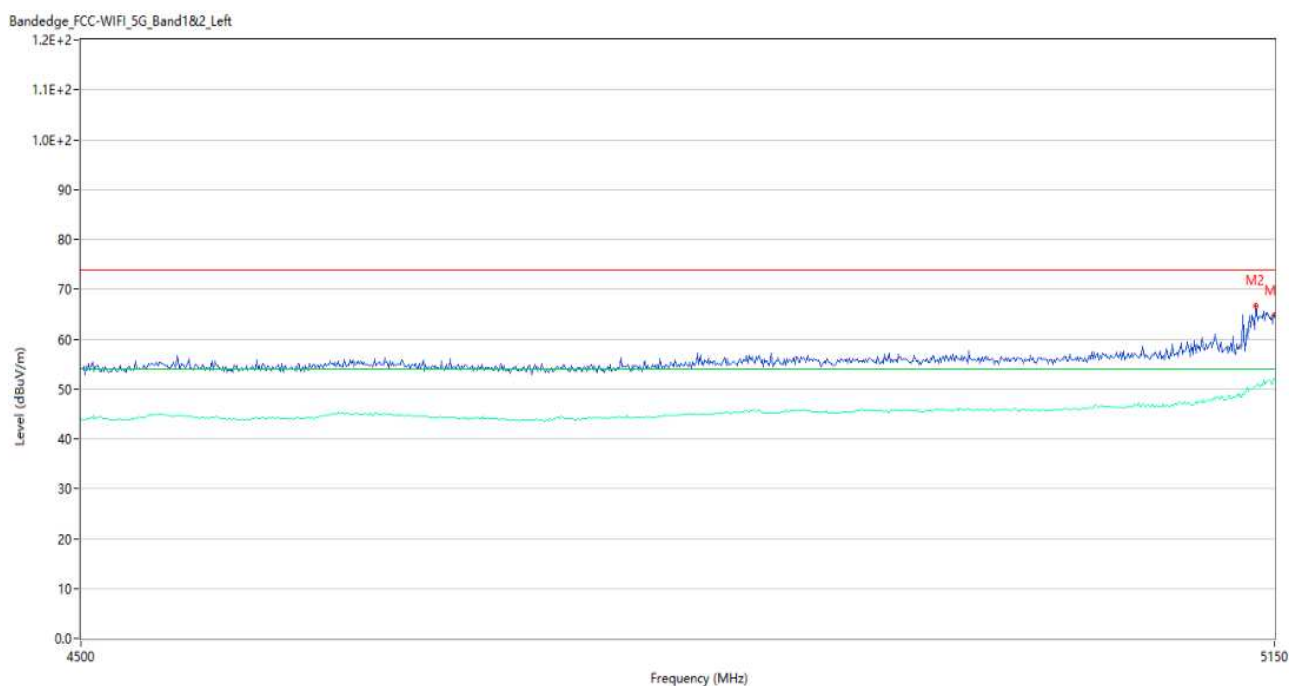
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	64.75	5.21	74.0	9.25	Peak	259.96	150	Horizontal	Pass
1**	5150.000	50.67	5.21	54.0	3.33	AV	259.96	150	Horizontal	Pass
2	5148.700	66.04	5.23	74.0	7.96	Peak	63.00	150	Horizontal	Pass
2**	5148.700	50.00	5.23	54.0	4.00	AV	63.00	150	Horizontal	Pass

U-NII-1 11ac40 CH46



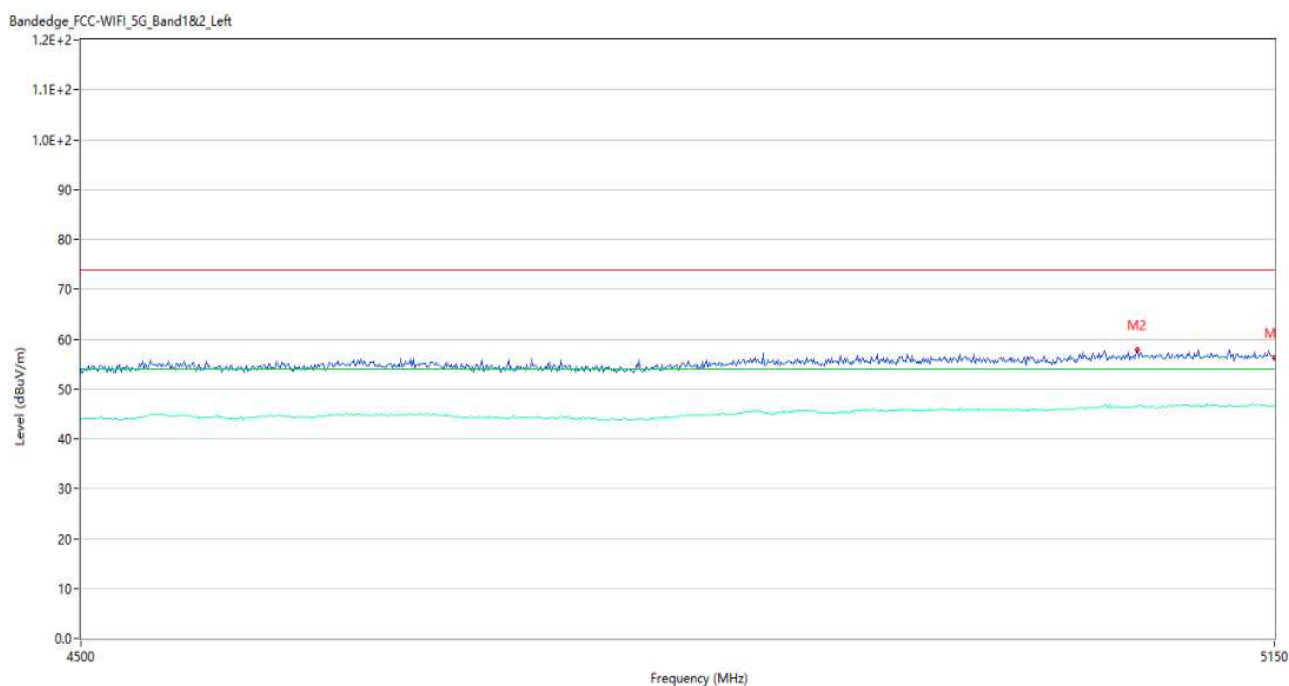
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.66	5.40	74.0	18.34	Peak	360.00	150	Vertical	Pass
1**	5350.000	46.82	5.40	54.0	7.18	AV	360.00	150	Vertical	Pass
2	5447.240	58.57	5.61	74.0	15.43	Peak	14.00	150	Vertical	Pass
2**	5447.240	46.26	5.61	54.0	7.74	AV	14.00	150	Vertical	Pass

U-NII-1 11ac80 CH42



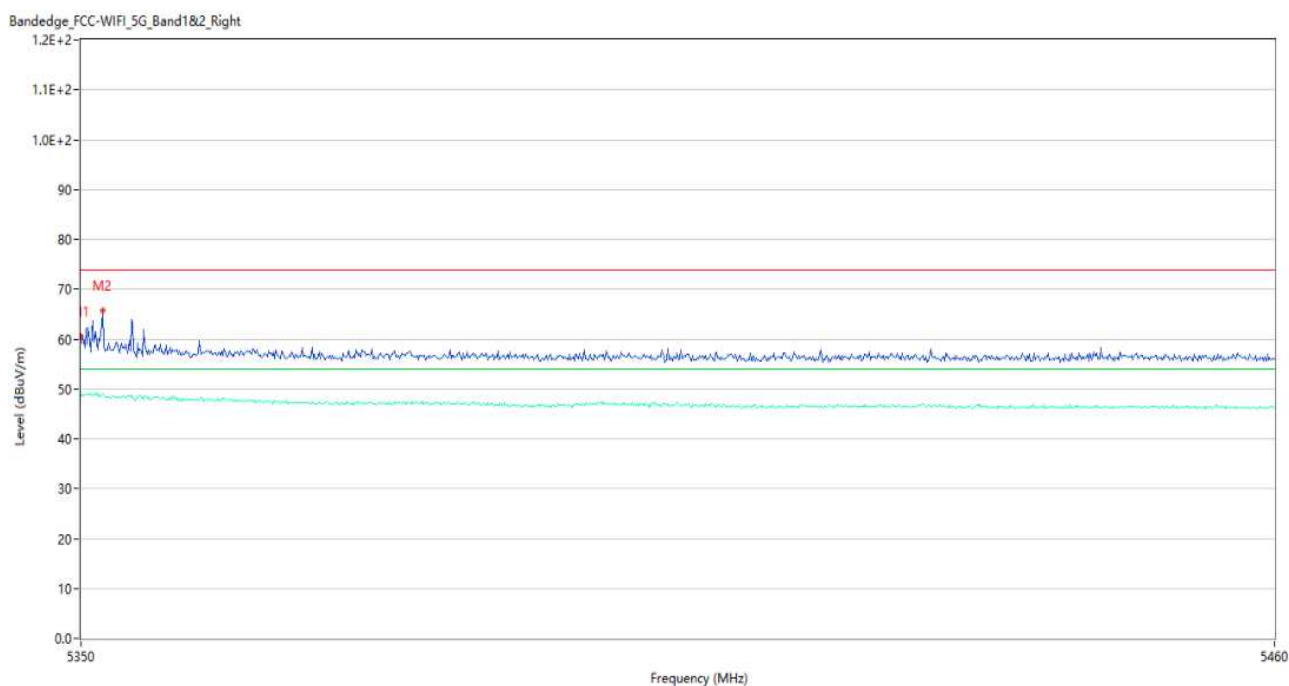
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	64.83	5.21	74.0	9.17	Peak	63.00	150	Horizontal	Pass
1**	5150.000	51.71	5.21	54.0	2.29	AV	63.00	150	Horizontal	Pass
2	5138.950	66.76	5.58	74.0	7.24	Peak	79.00	150	Horizontal	Pass
2**	5138.950	50.51	5.58	54.0	3.49	AV	79.00	150	Horizontal	Pass

U-NII-2A 11a CH52



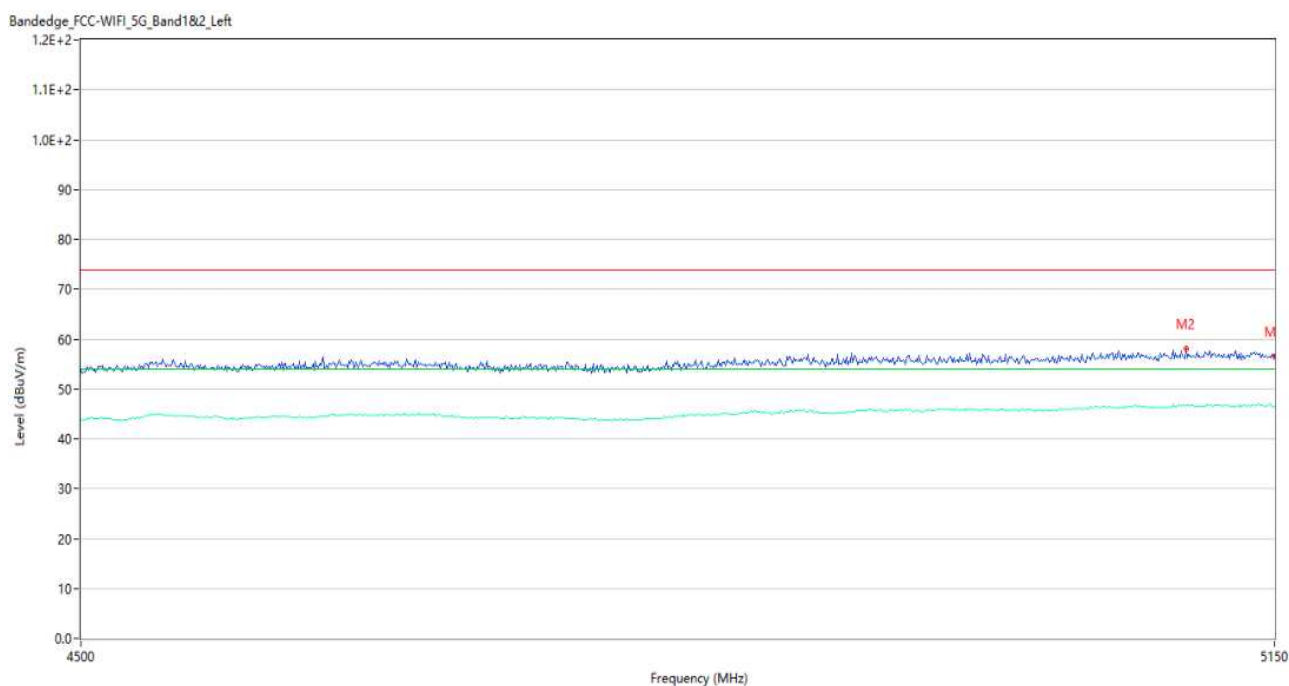
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.35	5.21	74.0	17.65	Peak	0.01	100	Horizontal	Pass
1**	5150.000	46.68	5.21	54.0	7.32	AV	0.01	100	Horizontal	Pass
2	5070.700	57.81	5.21	74.0	16.19	Peak	198.00	100	Horizontal	Pass
2**	5070.700	46.56	5.21	54.0	7.44	AV	198.00	100	Horizontal	Pass

U-NII-2A 11a CH64



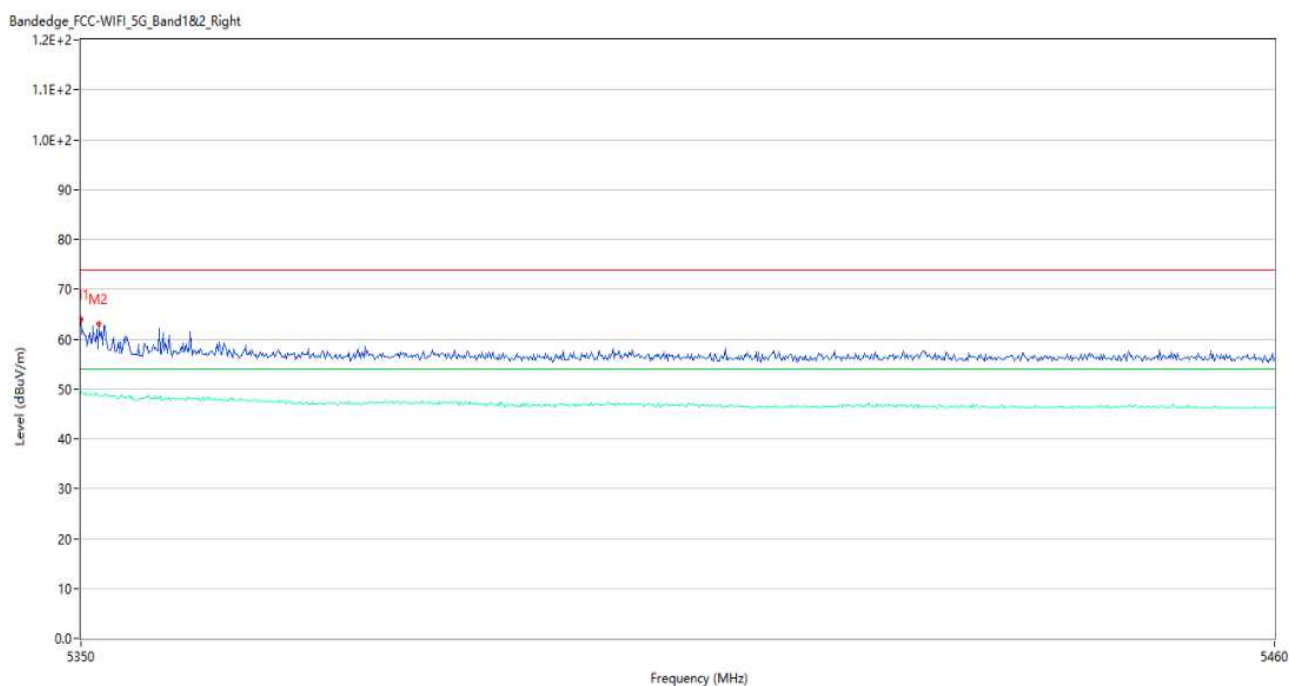
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	60.50	5.40	74.0	13.50	Peak	283.00	150	Vertical	Pass
1**	5350.000	48.57	5.40	54.0	5.43	AV	283.00	150	Vertical	Pass
2	5351.980	65.80	5.45	74.0	8.20	Peak	291.00	150	Vertical	Pass
2**	5351.980	49.13	5.45	54.0	4.87	AV	291.00	150	Vertical	Pass

U-NII-2A 11ac20 CH52



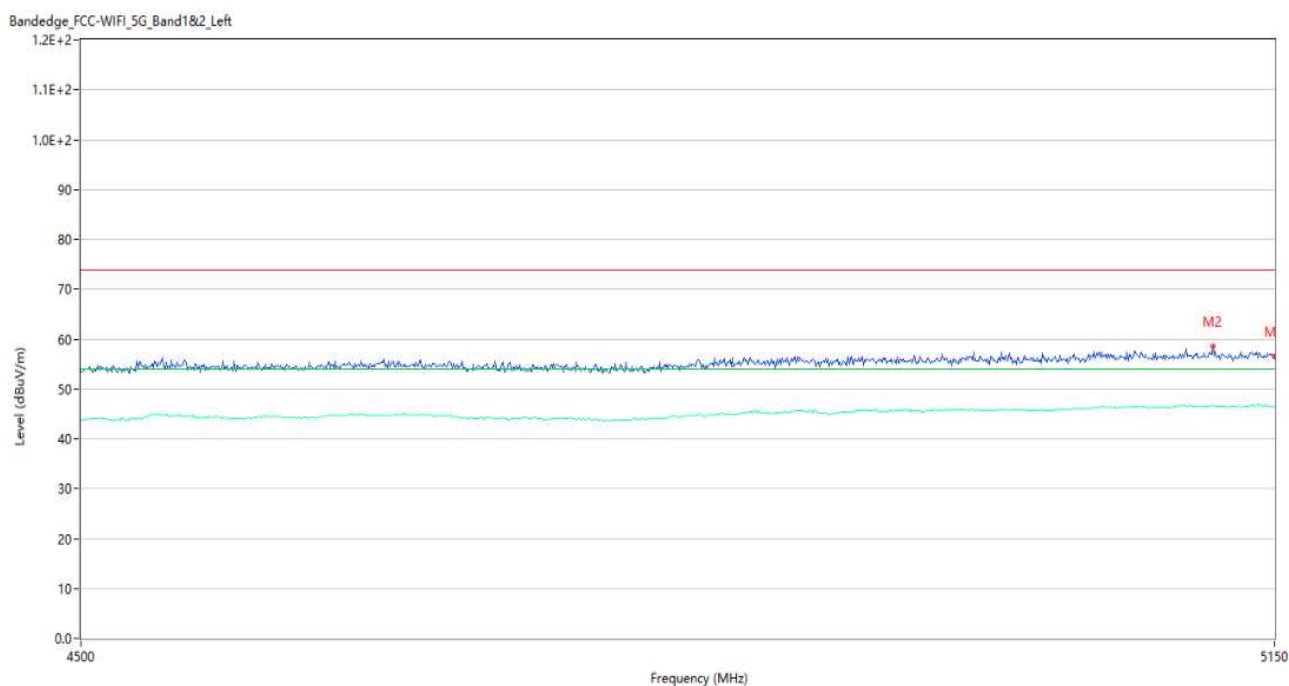
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.40	5.21	74.0	17.60	Peak	215.97	150	Horizontal	Pass
1**	5150.000	46.44	5.21	54.0	7.56	AV	215.97	150	Horizontal	Pass
2	5098.650	58.09	5.42	74.0	15.91	Peak	109.00	150	Horizontal	Pass
2**	5098.650	46.74	5.42	54.0	7.26	AV	109.00	150	Horizontal	Pass

U-NII-2A 11ac20 CH64



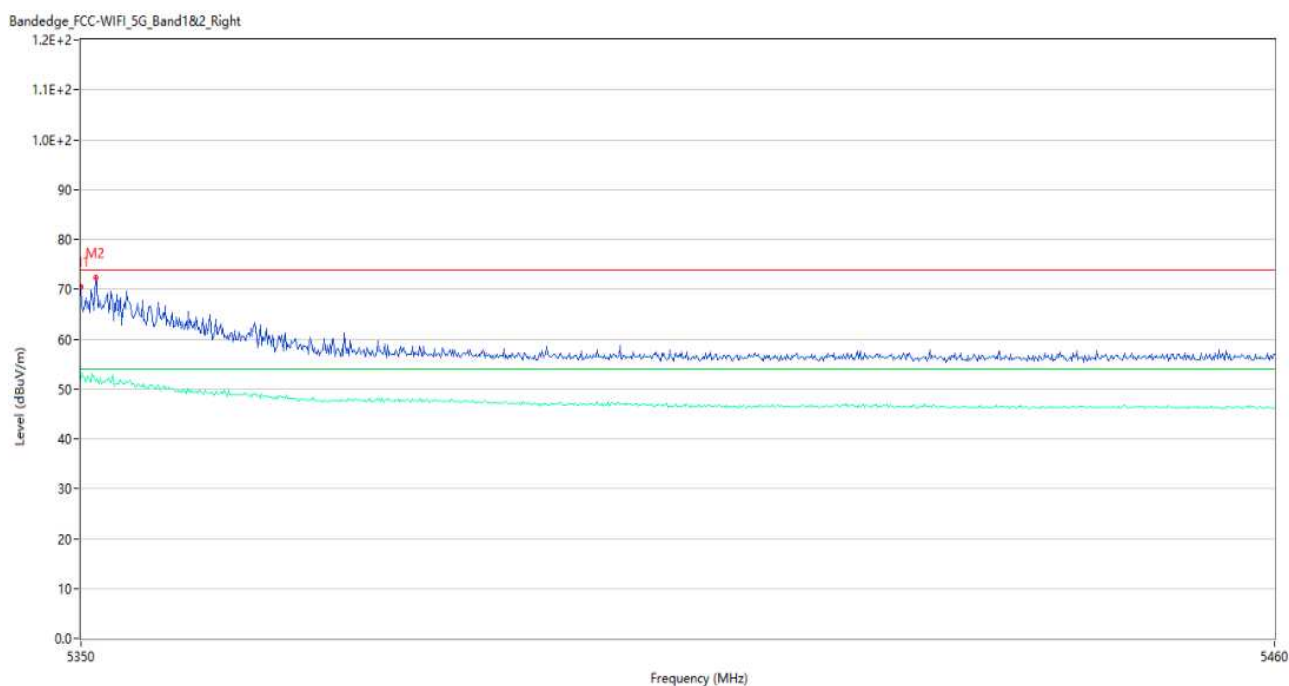
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	63.91	5.40	74.0	10.09	Peak	302.00	150	Vertical	Pass
1**	5350.000	49.46	5.40	54.0	4.54	AV	302.00	150	Vertical	Pass
2	5351.650	63.13	5.45	74.0	10.87	Peak	313.00	150	Vertical	Pass
2**	5351.650	48.59	5.45	54.0	5.41	AV	313.00	150	Vertical	Pass

U-NII-2A 11ac40 CH54



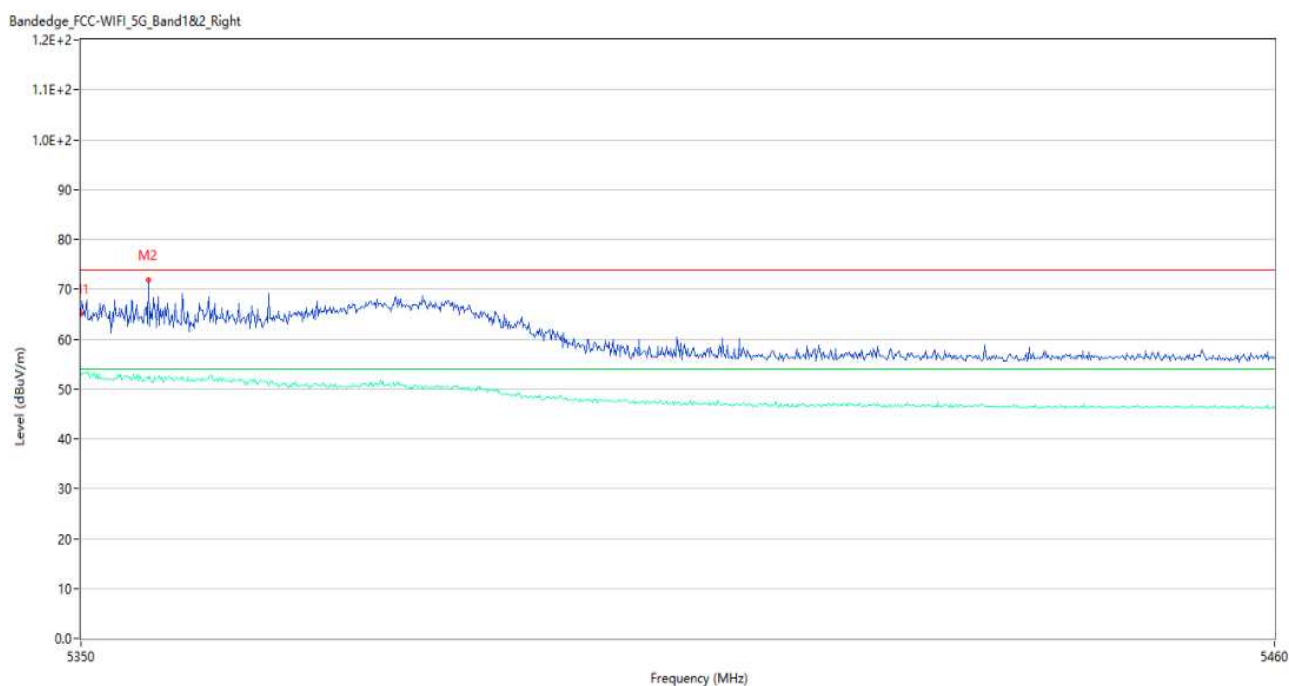
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	56.49	5.21	74.0	17.51	Peak	123.00	150	Vertical	Pass
1**	5150.000	46.52	5.21	54.0	7.48	AV	123.00	150	Vertical	Pass
2	5114.250	58.49	5.19	74.0	15.51	Peak	297.00	150	Vertical	Pass
2**	5114.250	46.69	5.19	54.0	7.31	AV	297.00	150	Vertical	Pass

U-NII-2A 11ac40 CH62



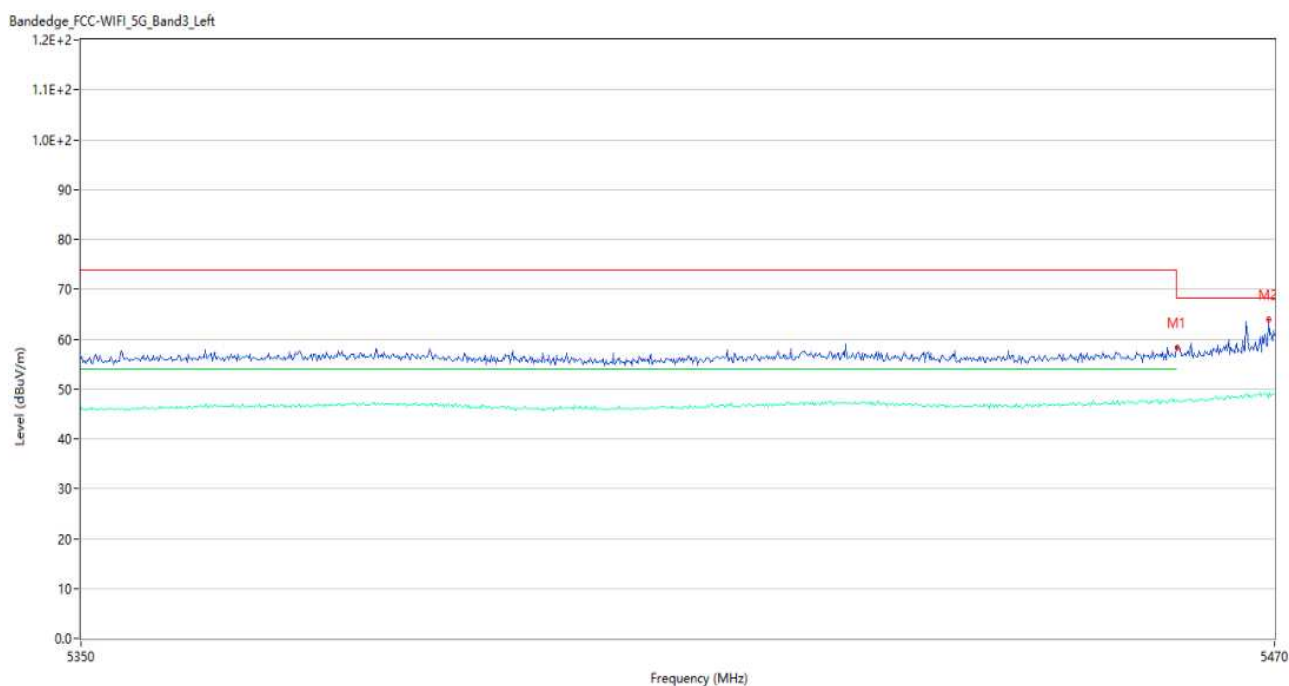
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	65.39	5.40	74.0	8.61	Peak	254.00	150	Vertical	Pass
1**	5350.000	51.09	5.40	54.0	2.91	AV	254.00	150	Vertical	Pass
2	5351.320	72.30	5.44	74.0	1.70	Peak	282.00	150	Vertical	Pass
2**	5351.320	51.63	5.44	54.0	2.37	AV	282.00	150	Vertical	Pass

U-NII-2A 11ac80 CH58



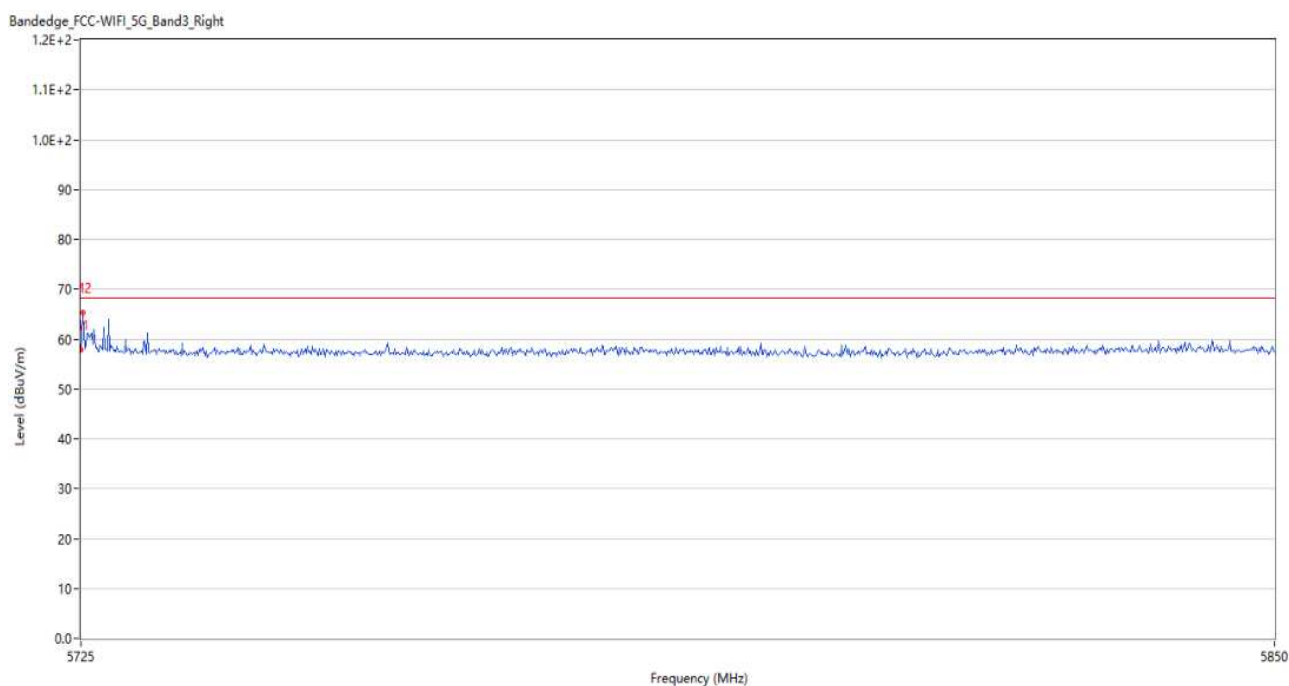
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	65.16	5.40	74.0	8.84	Peak	292.00	150	Vertical	Pass
1**	5350.000	52.79	5.40	54.0	1.21	AV	292.00	150	Vertical	Pass
2	5356.160	71.95	5.58	74.0	2.05	Peak	284.00	150	Vertical	Pass
2**	5356.160	52.14	5.58	54.0	1.86	AV	284.00	150	Vertical	Pass

U-NII-2C 11a CH100



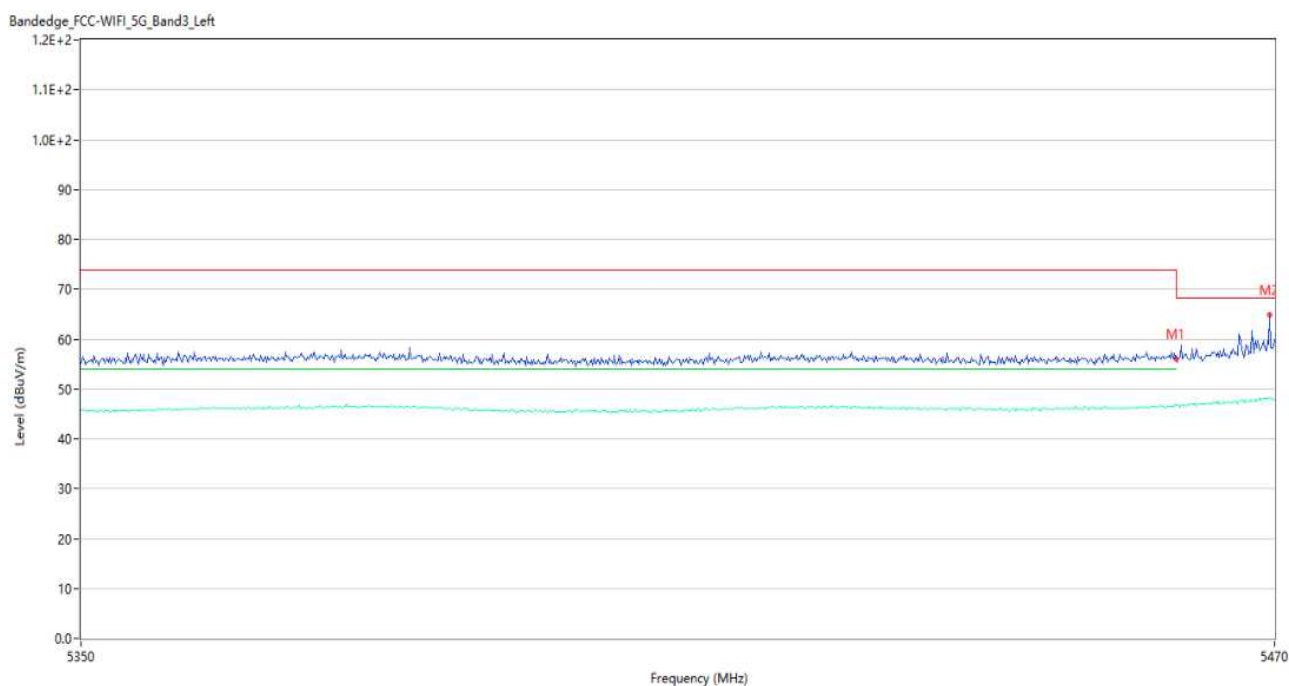
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	57.85	5.38	68.2	10.35	Peak	294.99	150	Vertical	Pass
1**	5460.000	47.57	5.38	54.0	6.43	AV	294.99	150	Vertical	Pass
2	5469.400	63.84	5.80	68.2	4.36	Peak	278.00	150	Vertical	Pass
2**	5469.400	48.23	5.80	--	-48.23	AV	278.00	150	Vertical	N/A

U-NII-2C 11a CH140



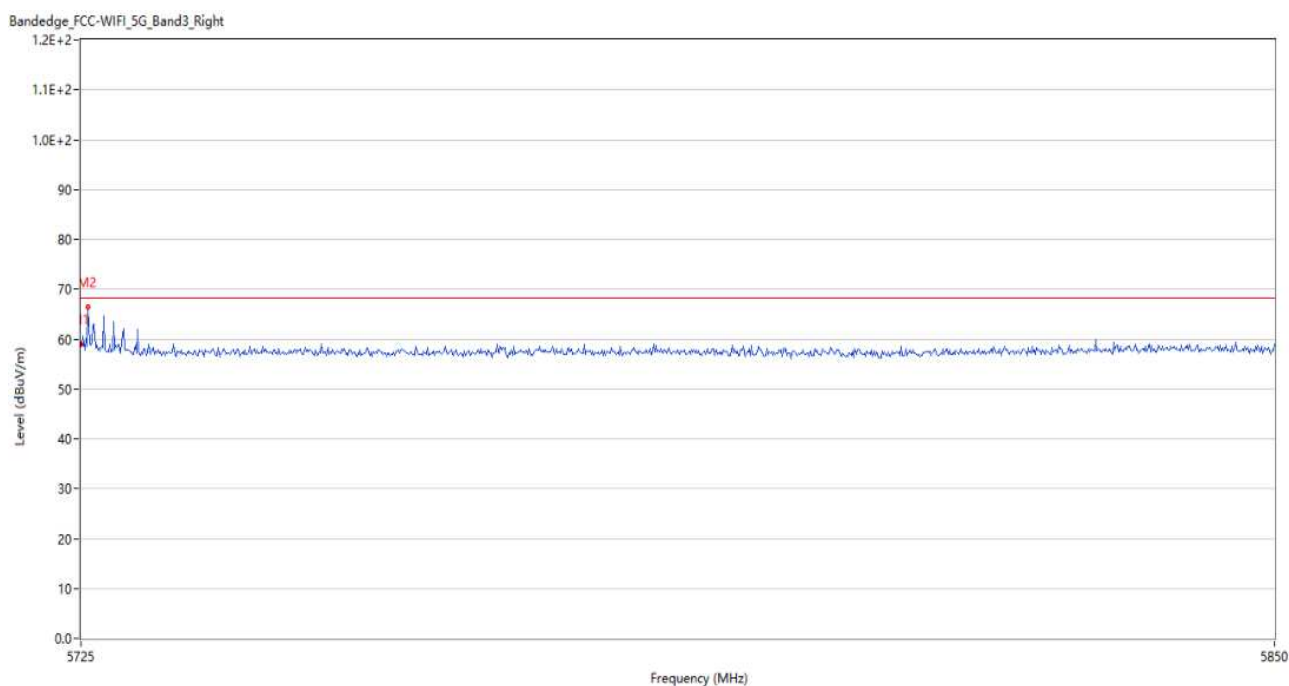
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	57.70	6.57	68.2	10.50	Peak	57.00	150	Horizontal	Pass
2	5725.250	65.33	6.56	68.2	2.87	Peak	99.00	150	Horizontal	Pass

U-NII-2C 11ac20 CH100



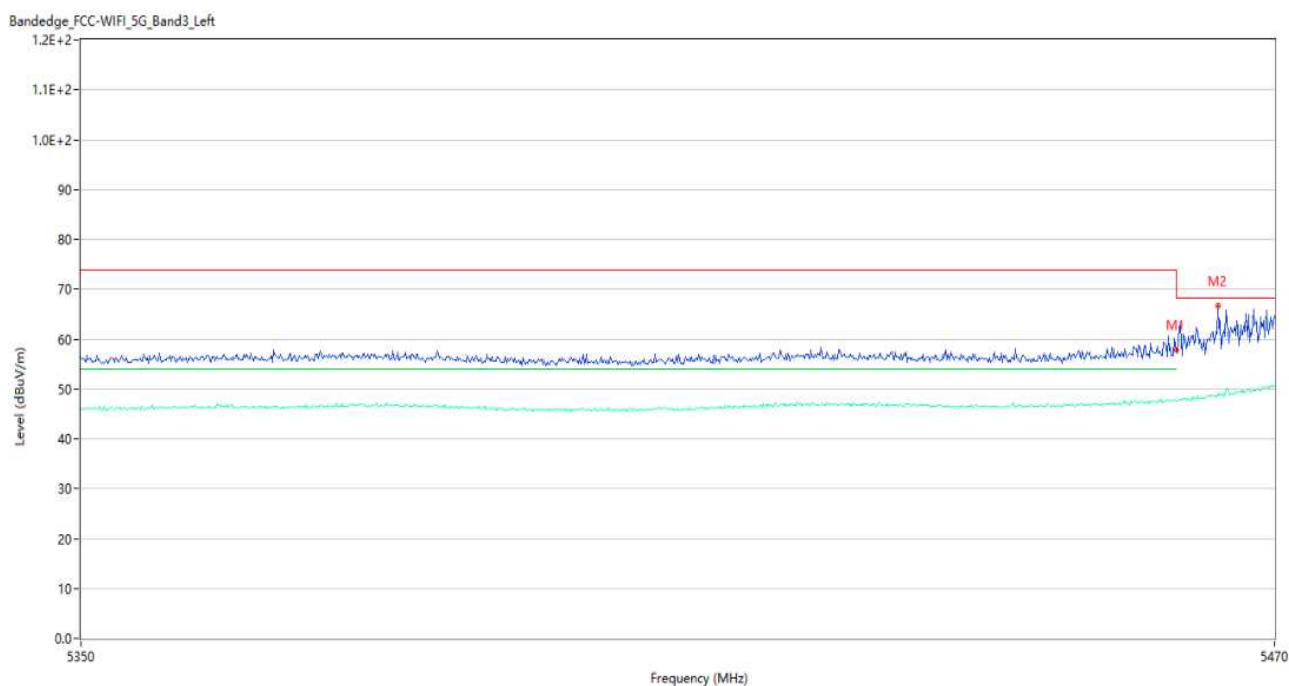
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	56.09	5.38	68.2	12.11	Peak	233.13	150	Horizontal	Pass
1**	5460.000	46.82	5.38	54.0	7.18	AV	233.13	150	Horizontal	Pass
2	5469.520	64.80	5.80	68.2	3.40	Peak	259.00	150	Horizontal	Pass
2**	5469.520	48.40	5.80	--	-48.40	AV	259.00	150	Horizontal	N/A

U-NII-2C 11ac20 CH140



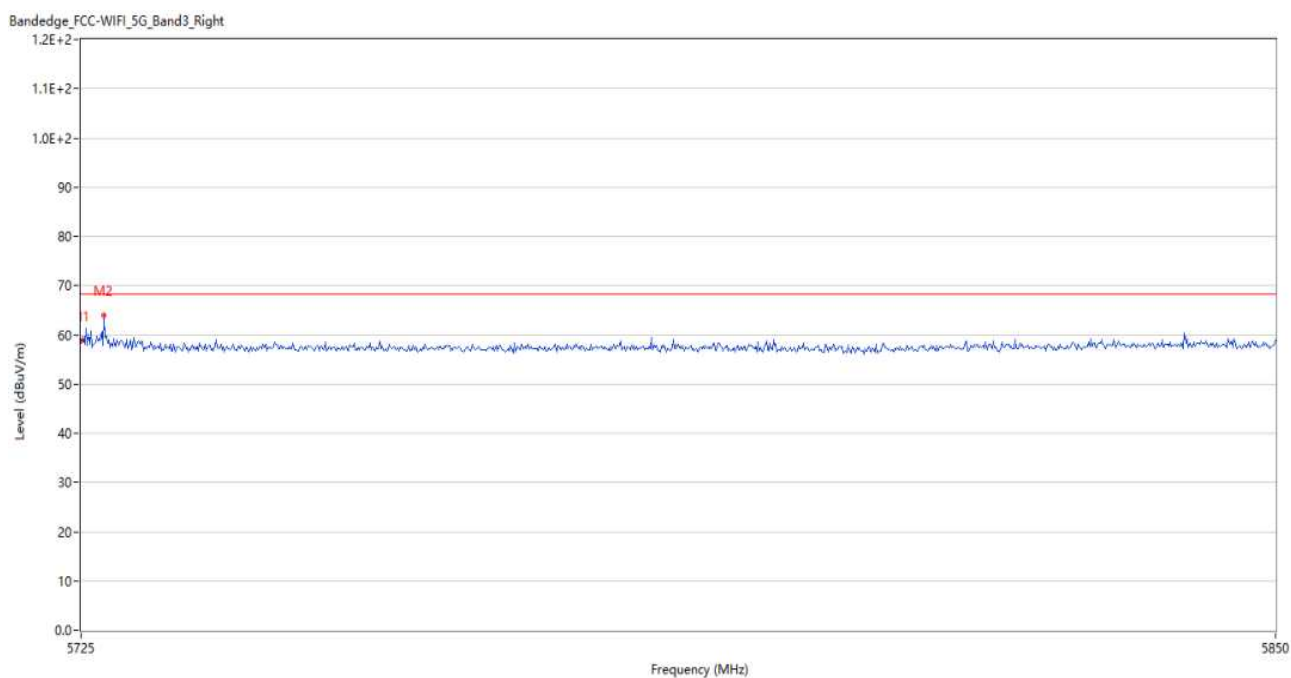
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	58.95	6.57	68.2	9.25	Peak	110.00	150	Horizontal	Pass
2	5725.750	66.33	6.55	68.2	1.87	Peak	71.00	150	Horizontal	Pass

U-NII-2C 11ac40 CH102



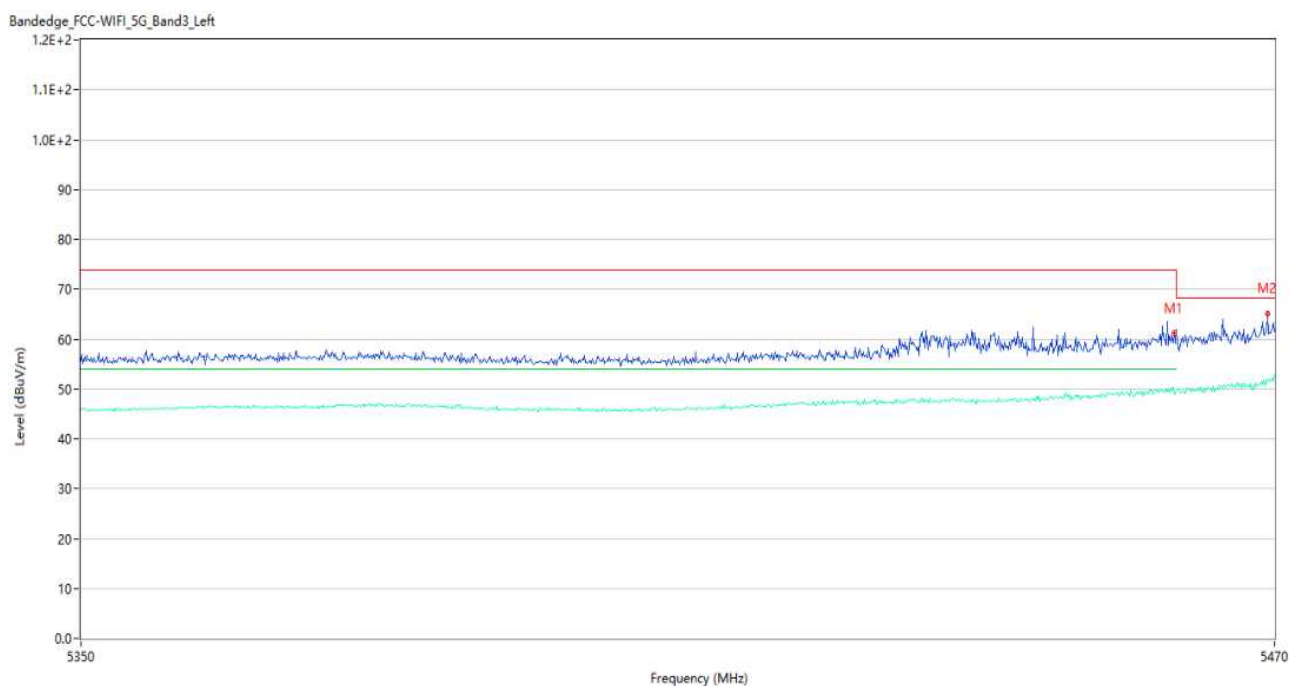
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	58.33	5.38	68.2	9.87	Peak	266.34	150	Vertical	Pass
1**	5460.000	47.74	5.38	54.0	6.26	AV	266.34	150	Vertical	Pass
2	5464.240	66.70	5.56	68.2	1.50	Peak	291.00	150	Vertical	Pass
2**	5464.240	49.02	5.56	--	-49.02	AV	291.00	150	Vertical	N/A

U-NII-2C 11ac40 CH134



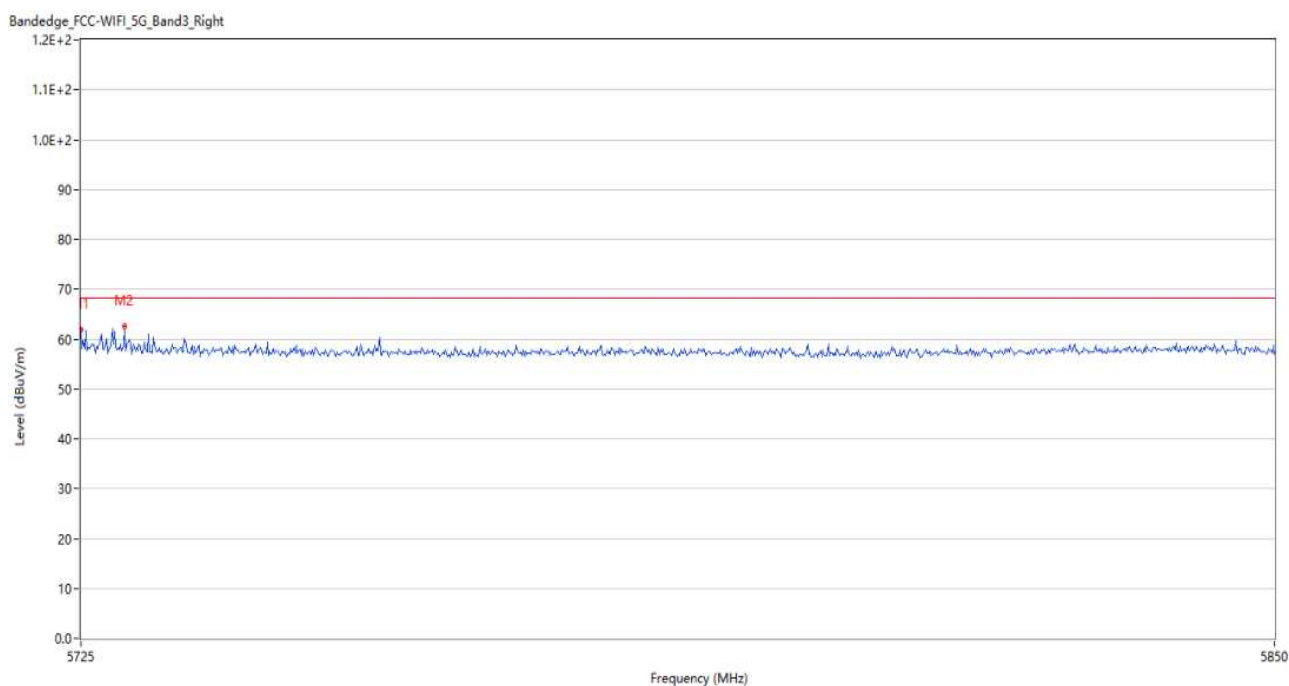
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	58.73	6.57	68.2	9.47	Peak	114.00	150	Horizontal	Pass
2	5727.375	64.03	6.51	68.2	4.17	Peak	75.00	150	Horizontal	Pass

U-NII-2C 11ac80 CH106



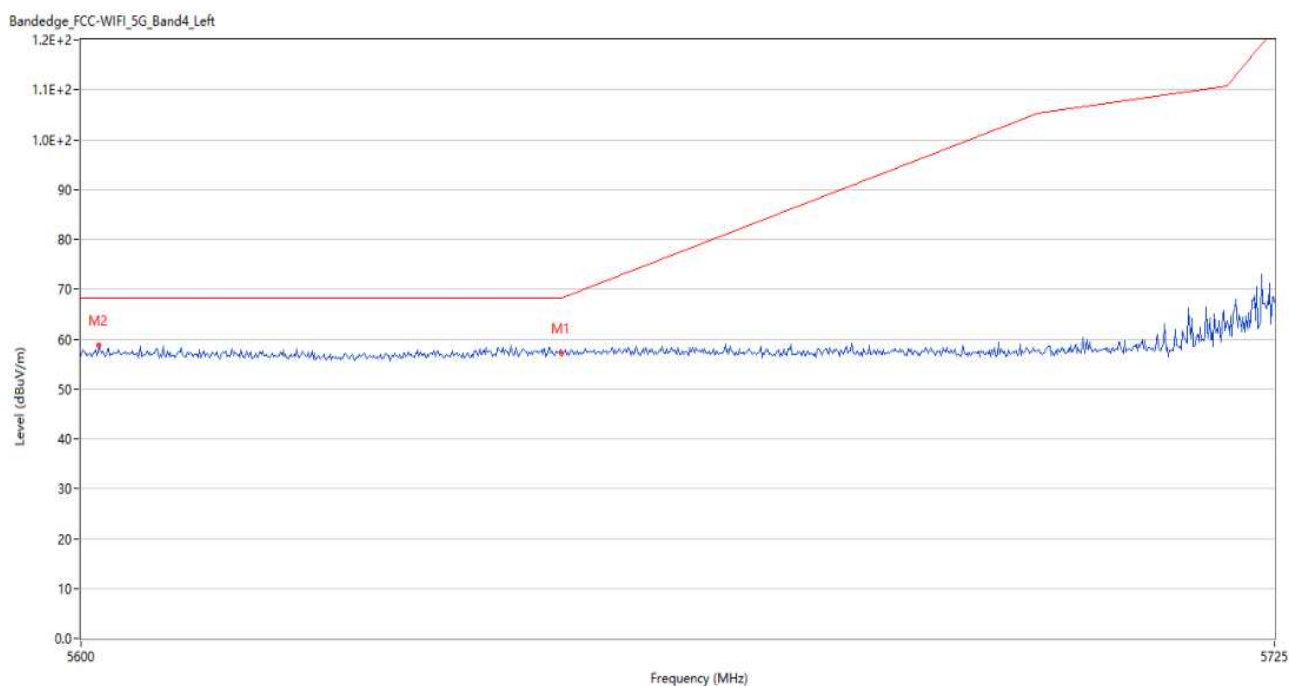
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	61.00	5.38	68.2	7.20	Peak	285.99	150	Vertical	Pass
1**	5460.000	49.40	5.38	54.0	4.60	AV	285.99	150	Vertical	Pass
2	5469.280	65.19	5.80	68.2	3.01	Peak	264.00	150	Vertical	Pass
2**	5469.280	51.26	5.80	--	-51.26	AV	264.00	150	Vertical	N/A

U-NII-2C 11ac80 CH122



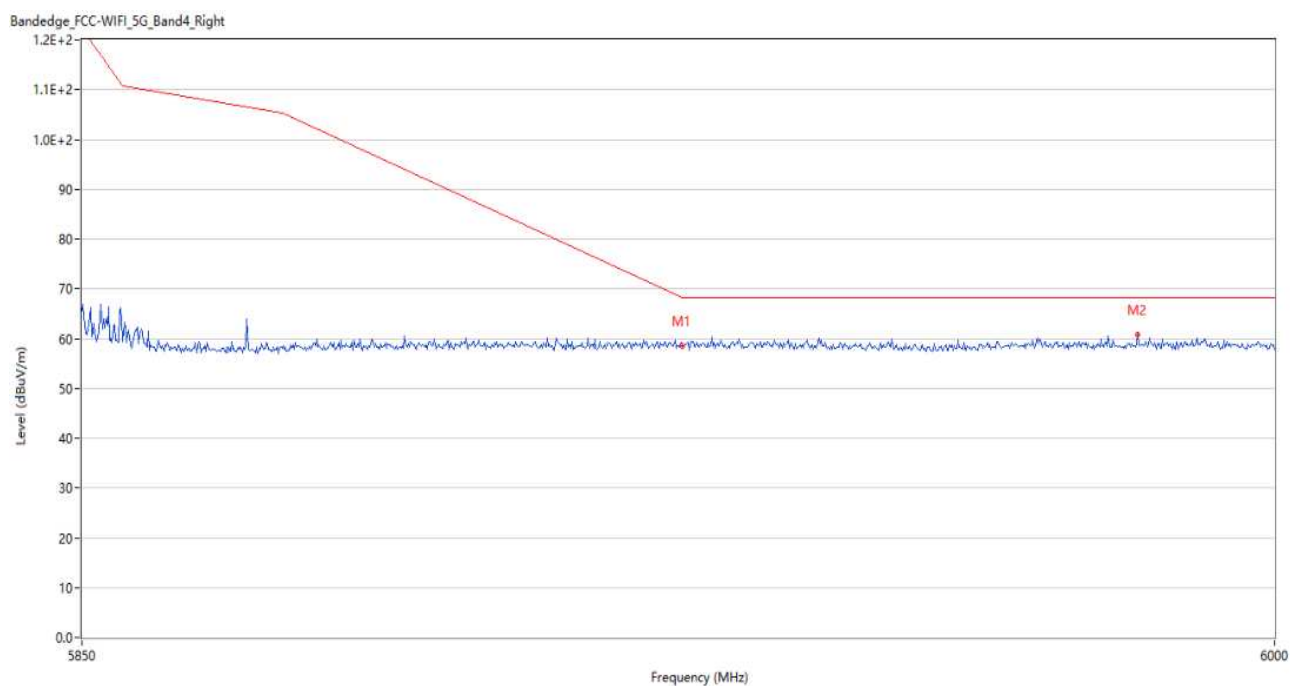
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	61.96	6.57	68.2	6.24	Peak	277.00	150	Vertical	Pass
2	5729.500	62.70	6.40	68.2	5.50	Peak	286.00	150	Vertical	Pass

U-NII-3 11a CH149



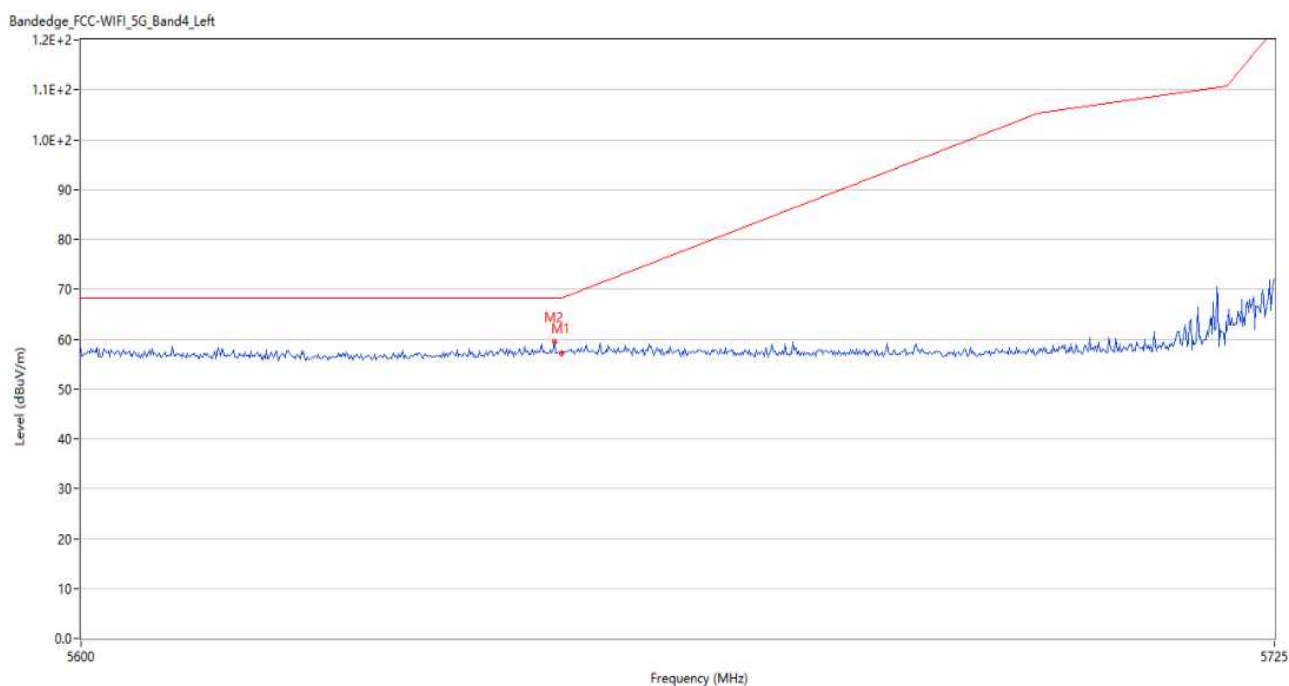
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.17	5.94	68.2	11.03	Peak	359.68	150	Vertical	Pass
2	5601.875	58.75	5.99	68.2	9.45	Peak	1.00	150	Vertical	Pass

U-NII-3 11a CH165



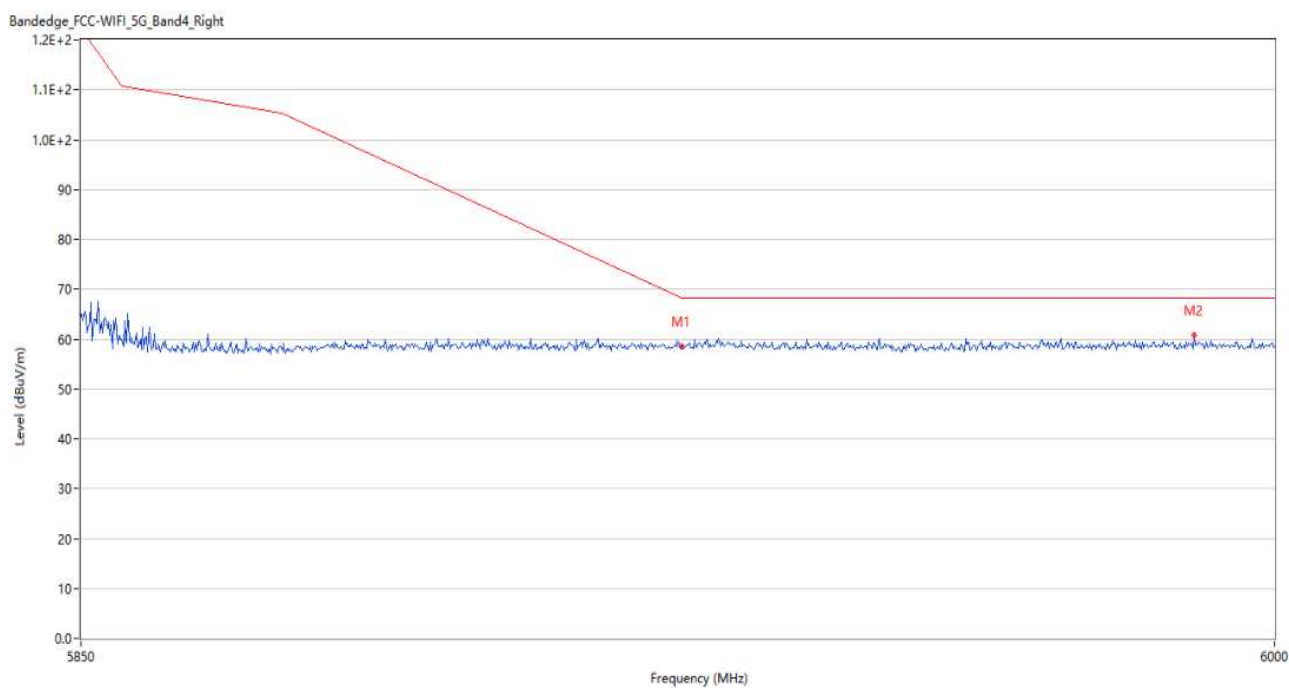
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.45	7.83	68.2	9.75	Peak	291.96	150	Vertical	Pass
2	5982.600	60.70	7.53	68.2	7.50	Peak	350.00	150	Vertical	Pass

U-NII-3 11ac20 CH149



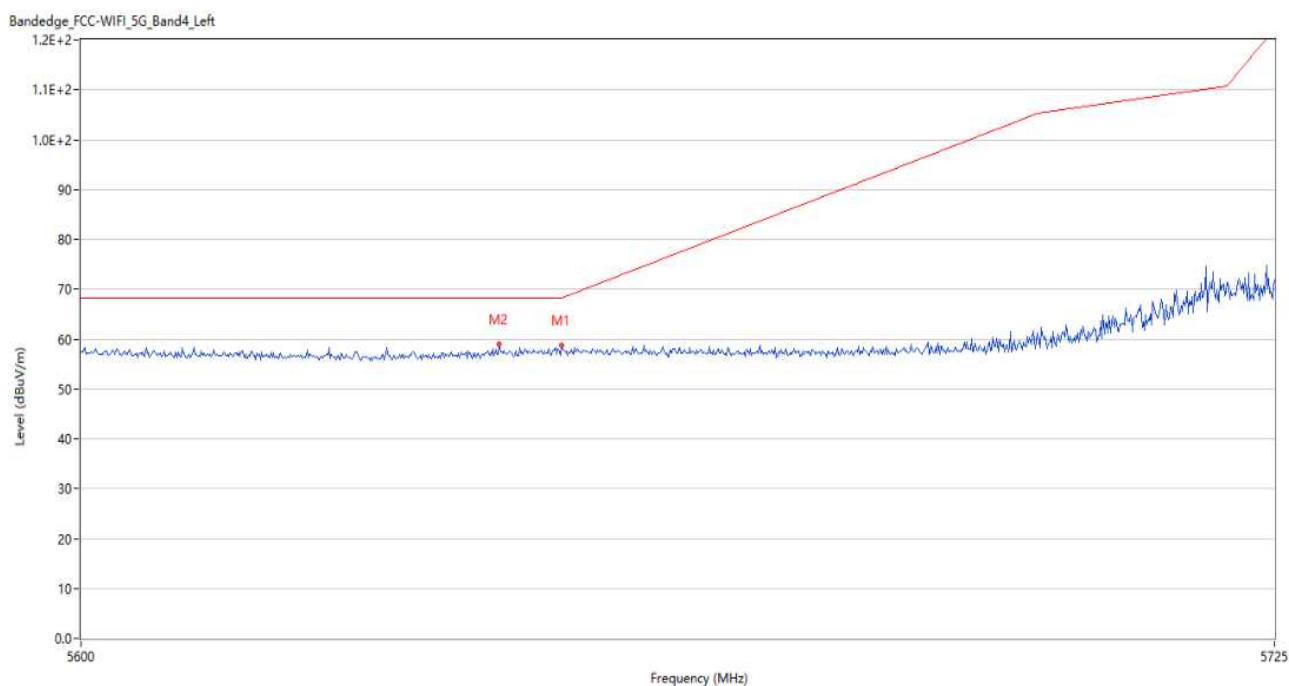
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	57.08	5.94	68.2	11.12	Peak	0.17	150	Vertical	Pass
2	5649.250	59.37	5.95	68.2	8.83	Peak	153.00	150	Vertical	Pass

U-NII-3 11ac20 CH48



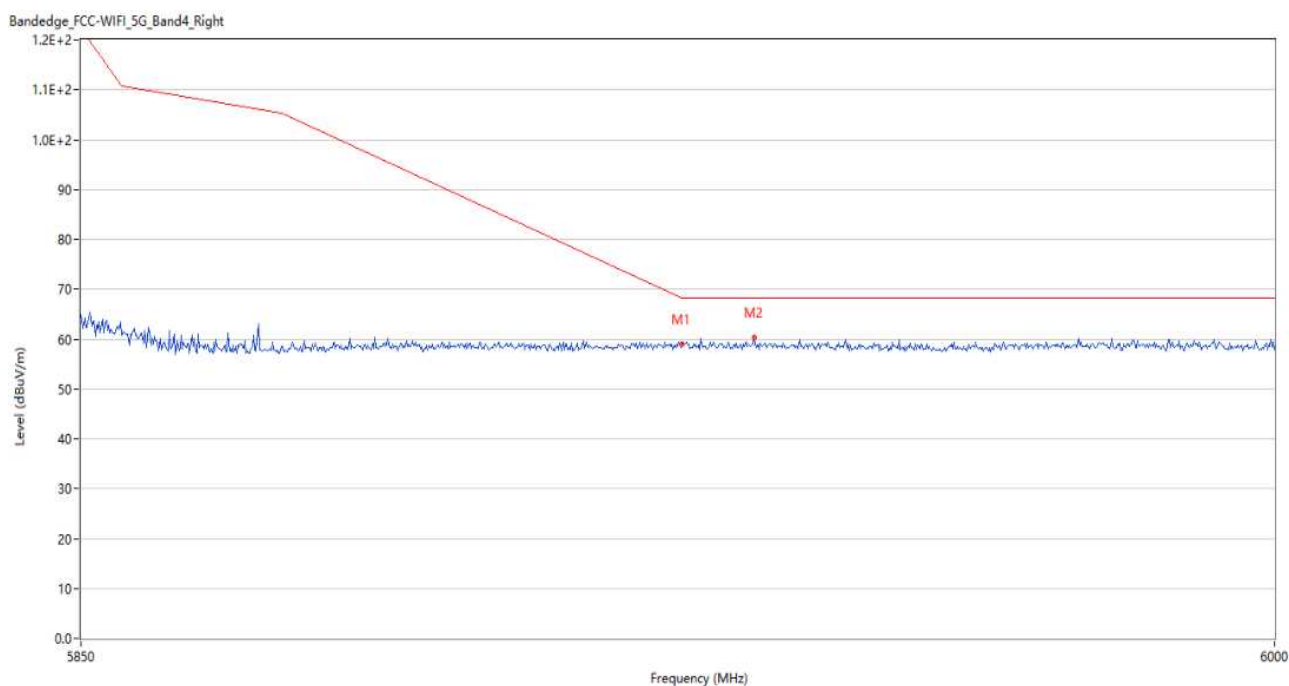
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.58	7.83	68.2	9.62	Peak	357.93	150	Vertical	Pass
2	5989.800	60.70	7.96	68.2	7.50	Peak	353.00	150	Vertical	Pass

U-NII-3 11ac40 CH151



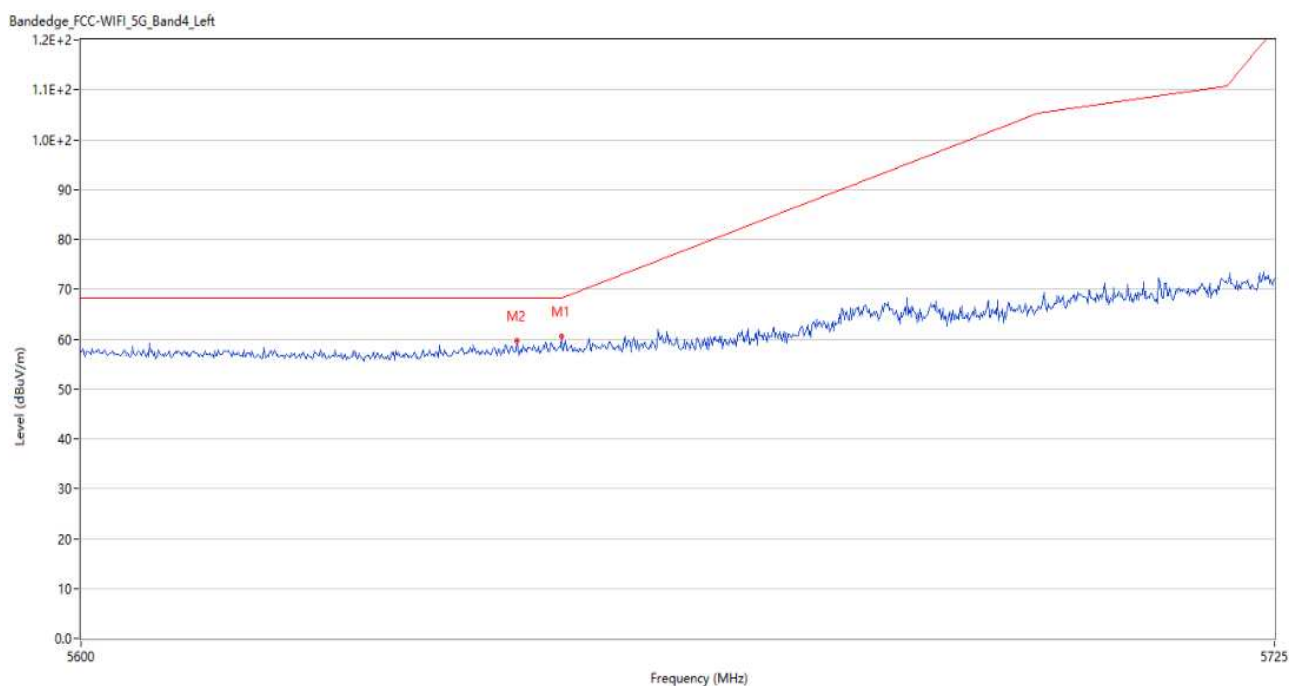
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	58.76	5.94	68.2	9.44	Peak	50.32	150	Vertical	Pass
2	5643.500	59.05	6.01	68.2	9.15	Peak	249.00	150	Vertical	Pass

U-NII-3 11ac40 CH159



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	58.89	7.83	68.2	9.31	Peak	359.90	150	Vertical	Pass
2	5934.150	60.35	7.53	68.2	7.85	Peak	101.00	150	Vertical	Pass

U-NII-3 11ac80 CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	60.52	5.94	68.2	7.68	Peak	285.06	150	Vertical	Pass
2	5645.375	59.57	6.02	68.2	8.63	Peak	285.00	150	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2470490-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2470490-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2470490-AI.PDF”.

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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.
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--END OF REPORT--