

TEST REPORT

Applicant: Shenzhen SEI Robotics Co., Ltd.
Address: 11th Floor, Kangtai Group Building, No. 222 Kefa Road, Science and Technology Park Community, Yuehai Street, Nanshan District, Shenzhen, China
Equipment Type: Pocket TV Pro
Model Name: SEID00GHAG (refer to section 2.3)
Brand Name: N/A
FCC ID: 2AOVU-SEID00GHAG
Test Standard: 47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date: Jul. 10, 2026
Test Date: Jul. 11, 2026 - Aug. 03, 2026
Date of Issue: Aug. 27, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Li Renyu**Checked by:** Li Ganming**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Aug. 17, 2026</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Aug. 27, 2026</u>	<u>Corrected the limit of ANT1 and MIMO for sections A.1 and A.4.</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shenzhen SEI Robotics Co., Ltd.
Address	11th Floor, Kangtai Group Building, No. 222 Kefa Road, Science and Technology Park Community, Yuehai Street, Nanshan District, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	Shenzhen SEI Robotics Co., Ltd.
Address	11th Floor, Kangtai Group Building, No. 222 Kefa Road, Science and Technology Park Community, Yuehai Street, Nanshan District, Shenzhen, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Pocket TV Pro
Model Name Under Test	SEID00GHAG
Series Model Name	SN9BTCC
Description of Model name differentiation	The circuit, PCB layout, electrical components and appearance of the above model are exactly the same as the basic model, except the model names are different due to different market and customer needs. (this information provided by the applicant)
Hardware Version	SMB.462.07
Software Version	SEID00GHAG-user-burn-20260615-v14.10.9330
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax
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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, OFDMA	
Modulation Type	1024QAM, 256QAM, 64QAM, 16QAM, BPSK, QPSK	
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9 802.11ax up to 600 Mbps	
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz 802.11ax: 20 MHz, 40 MHz, 80 MHz	
Maximum Output Power	U-NII-1: 26.55 mW U-NII-2A: 27.80 mW U-NII-2C: 29.45 mW U-NII-3: 16.99 mW	
Antenna System (eg., MIMO, Smart Antenna)	Cyclic Delay Diversity (CDD) for 802.11a Multi Input Multi Output (MIMO) for 802.11n/ac/ax	
Categorization as Correlated or Completely Uncorrelated	Categorization as Correlated for 802.11a Categorization as Uncorrelated for 802.11n/ac/ax	
Antenna Type	ANT1 ANT2	PCB Antenna
Antenna Gain	ANT1	U-NII-1: 5150 MHz to 5250 MHz: 3.63 dBi U-NII-2A: 5250 MHz to 5350 MHz: 4.31 dBi U-NII-2C: 5470 MHz to 5725 MHz: 6.52 dBi U-NII-3: 5725 MHz to 5850 MHz: 6.52 dBi
	ANT2	U-NII-1: 5150 MHz to 5250 MHz: 2.89 dBi U-NII-2A: 5250 MHz to 5350 MHz: 3.18 dBi U-NII-2C: 5470 MHz to 5725 MHz: 4.02 dBi U-NII-3: 5725 MHz to 5850 MHz: 4.02 dBi
Total directional gain	For power spectral density	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 6.28 dBi U-NII-2A: 5250 MHz to 5350 MHz: 6.77 dBi

	(PSD) measurements	U-NII-2C: 5470 MHz to 5725 MHz: 8.37 dBi U-NII-3: 5725 MHz to 5850 MHz: 8.37 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / \text{NANT}]$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 3.28 dBi U-NII-2A: 5250 MHz to 5350 MHz: 3.78 dBi U-NII-2C: 5470 MHz to 5725 MHz: 5.45 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.45 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / \text{NANT}]$ dBi
	For power measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 6.28 dBi U-NII-2A: 5250 MHz to 5350 MHz: 6.77 dBi U-NII-2C: 5470 MHz to 5725 MHz: 8.37 dBi U-NII-3: 5725 MHz to 5850 MHz: 8.37 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / \text{NANT}]$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 3.28 dBi U-NII-2A: 5250 MHz to 5350 MHz: 3.78 dBi U-NII-2C: 5470 MHz to 5725 MHz: 5.45 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.45 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / \text{NANT}]$ dBi
About the Product		The equipment is Pocket TV Pro, intended for used with information technology equipment.

Mode	Antenna		
	ANT1	ANT2	MIMO
802.11a	√	√	√
802.11n20	√	√	√
802.11n40	√	√	√
802.11ac20	√	√	√
802.11ac40	√	√	√
802.11ac80	√	√	√
802.11ax20	√	√	√
802.11ax40	√	√	√
802.11ax80	√	√	√
Note: All the configurations were tested, but only the worst data was shown in this report.			

802.11ax RU configuration table						
Mode	Full RU (SU)	RU_26	RU_52	RU_106	RU_242	RU_484
802.11ax20	√	√	√	√	--	--
802.11ax40	√	√	√	√	√	--
802.11ax80	√	√	√	√	√	√

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

2.5 Channel List

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

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)/ax(HE20)

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

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

For 802.11n(HT40)/ac(VHT40)/ax(HE40)

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

U-NII-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
102	Low	5510	151	Low	5755
118	Mid	5590	159	High	5795
134	High	5670			

For 802.11ac(VHT80)/ax(HE80)

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

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

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

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
				Channel	Channel	Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
	11ax(20 MHz)	8.6		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	17.2		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	36.0		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
	11ax(20 MHz)	8.6		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	17.2		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	36.0		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
	11ax(20 MHz)	8.6		N/A	N/A	N/A	165/157/149
	11ax(40 MHz)	17.2		N/A	N/A	N/A	159/151
	11ax(80 MHz)	36.0		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
	11ax(20 MHz)	8.6		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	17.2		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	36.0		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
	11ax(20 MHz)	8.6		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	17.2		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	36.0		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
	11ax(20 MHz)	8.6		48/36	64/52	140/100	165/149
	11ax(40 MHz)	17.2		46/38	62/54	134/102	159/151
	11ax(80 MHz)	36.0		42	58	122/106	155

2.6 Additional Instructions

EUT Software Settings:

Mode	☒ Use the CMD command window to issue instructions to enable the EUT under transmission condition continuously at specific channel frequencies individually.
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During testing. Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power level setup in software			
Test Software Version	CMD command window		
Support Units (Software installation media)	Description	Manufacturer	Model
	Computer	DELL	25H2

U-NII-1 (5150 - 5250 MHz) Power level setup in software				
Mode	Channel	Frequency (MHz)	Soft Set	
			ANT1	ANT2
11a	CH36	5180	9	9
11a	CH44	5220	9	9
11a	CH48	5240	9	9
11n(HT20)	CH36	5180	9	9
11n(HT20)	CH44	5220	9	10
11n(HT20)	CH48	5240	10	10
11n(HT40)	CH38	5190	10	10
11n(HT40)	CH46	5230	10	10
11ac(VHT20)	CH36	5180	9	9
11ac(VHT20)	CH44	5220	9	9
11ac(VHT20)	CH48	5240	10	10
11ac(VHT40)	CH38	5190	10	10
11ac(VHT40)	CH46	5230	10	10
11ac(VHT80)	CH42	5210	10	10
11ax(HE20)(SU)	CH36	5180	9	9
11ax(HE20)(SU)	CH44	5220	9	10
11ax(HE20)(SU)	CH48	5240	9	10
11ax(HE40)(SU)	CH38	5190	10	10
11ax(HE40)(SU)	CH46	5230	10	10
11ax(HE80)(SU)	CH42	5210	10	10

U-NII-1 (5150 - 5250 MHz) Power level setup in software					
Mode	Channel	Frequency (MHz)	RU Config	Soft Set	
				ANT1	ANT2
11ax(HE20)	CH36	5180	26	4	4
			52	7	7
			106	9	9
	CH44	5220	26	4	4
			52	7	7
			106	9	9
	CH48	5240	26	4	4
			52	7	7
			106	9	9
11ax(HE40)	CH38	5190	26	4	4
			52	7	7
			106	9	9
			242	9	9
	CH46	5230	26	4	4
			52	7	7
			106	9	9
			242	9	9
11ax(HE80)	CH42	5210	26	4	4
			52	7	7
			106	9	9
			242	9	9
			484	10	10

U-NII-2A (5250 - 5350 MHz) Power level setup in software				
Mode	Channel	Frequency (MHz)	Soft Set	
			ANT1	ANT2
11a	CH52	5260	11	10
11a	CH60	5300	11	11
11a	CH64	5320	11	11
11n(HT20)	CH52	5260	11	11
11n(HT20)	CH60	5300	11	11
11n(HT20)	CH64	5320	11	11
11n(HT40)	CH54	5270	11	11
11n(HT40)	CH62	5310	12	12
11ac(VHT20)	CH52	5260	11	11
11ac(VHT20)	CH60	5300	11	11
11ac(VHT20)	CH64	5320	11	11
11ac(VHT40)	CH54	5270	11	11
11ac(VHT40)	CH62	5310	12	12
11ac(VHT80)	CH58	5290	10	10
11ax(HE20)(SU)	CH52	5260	11	11
11ax(HE20)(SU)	CH60	5300	11	11
11ax(HE20)(SU)	CH64	5320	11	11
11ax(HE40)(SU)	CH54	5270	11	11
11ax(HE40)(SU)	CH62	5310	11	11
11ax(HE80)(SU)	CH58	5290	10	10

U-NII-2A (5250 - 5350 MHz) Power level setup in software					
Mode	Channel	Frequency (MHz)	RU Config	Soft Set	
				ANT1	ANT2
11ax(HE20)	CH52	5260	26	10	10
			52	10	10
			106	10	10
	CH60	5300	26	10	10
			52	10	10
			106	10	10
	CH64	5320	26	10	10
			52	10	10
			106	10	10
11ax(HE40)	CH54	5270	26	10	10
			52	10	10
			106	10	10
			242	10	10
	CH62	5310	26	10	10
			52	10	10
			106	10	10
			242	10	11
11ax(HE80)	CH58	5290	26	8	8
			52	10	10
			106	10	10
			242	10	10
			484	11	11

U-NII-2C (5470 - 5725 MHz) Power level setup in software				
Mode	Channel	Frequency (MHz)	Soft Set	
			ANT1	ANT2
11a	CH100	5500	9	9
11a	CH116	5580	9	9
11a	CH140	5700	9	10
11n(HT20)	CH100	5500	9	9
11n(HT20)	CH116	5580	9	10
11n(HT20)	CH140	5700	9	10
11n(HT40)	CH102	5510	10	10
11n(HT40)	CH118	5590	10	10
11n(HT40)	CH134	5670	10	11
11ac(VHT20)	CH100	5500	10	9
11ac(VHT20)	CH116	5580	9	10
11ac(VHT20)	CH140	5700	9	11
11ac(VHT40)	CH102	5510	10	10
11ac(VHT40)	CH118	5590	10	10
11ac(VHT40)	CH134	5670	10	11
11ac(VHT80)	CH106	5530	9	9
11ac(VHT80)	CH122	5610	11	11
11ax(HE20)(SU)	CH100	5500	9	9
11ax(HE20)(SU)	CH116	5580	9	9
11ax(HE20)(SU)	CH140	5700	9	10
11ax(HE40)(SU)	CH102	5510	9	9
11ax(HE40)(SU)	CH118	5590	10	10
11ax(HE40)(SU)	CH134	5670	10	11
11ax(HE80)(SU)	CH106	5530	8	8
11ax(HE80)(SU)	CH122	5610	11	11

U-NII-2C (5470 - 5725 MHz) Power level setup in software					
Mode	Channel	Frequency (MHz)	RU Config	Soft Set	
				ANT1	ANT2
11ax(HE20)	CH100	5500	26	8	7
			52	9	9
			106	9	9
	CH116	5580	26	8	8
			52	9	9
			106	9	9
	CH140	5700	26	7	7
			52	8	10
			106	9	10
11ax(HE40)	CH102	5510	26	8	7
			52	10	9
			106	10	9
			242	10	9
	CH118	5590	26	8	8
			52	10	10
			106	9	10
			242	10	10
	CH134	5670	26	7	8
			52	9	10
			106	9	10
			242	9	10
11ax(HE80)	CH106	5530	26	7	7
			52	10	9
			106	10	9
			242	10	9
			484	11	10
	CH122	5610	26	7	8
			52	9	10
			106	9	10
			242	9	10
			484	10	11

U-NII-3 (5725 - 5850 MHz) Power level setup in software				
Mode	Channel	Frequency (MHz)	Soft Set	
			ANT1	ANT2
11a	CH149	5745	7	11
11a	CH157	5785	7	11
11a	CH165	5825	8	11
11n(HT20)	CH149	5745	7	11
11n(HT20)	CH157	5785	7	11
11n(HT20)	CH165	5825	8	11
11n(HT40)	CH151	5755	9	11
11n(HT40)	CH159	5795	9	11
11ac(VHT20)	CH149	5745	7	11
11ac(VHT20)	CH157	5785	7	11
11ac(VHT20)	CH165	5825	8	11
11ac(VHT40)	CH151	5755	9	11
11ac(VHT40)	CH159	5795	9	11
11ac(VHT80)	CH155	5775	9	12
11ax(HE20)(SU)	CH149	5745	7	11
11ax(HE20)(SU)	CH157	5785	8	11
11ax(HE20)(SU)	CH165	5825	8	11
11ax(HE40)(SU)	CH151	5755	8	11
11ax(HE40)(SU)	CH159	5795	9	11
11ax(HE80)(SU)	CH155	5775	9	12

U-NII-3 (5725 - 5850 MHz) Power level setup in software					
Mode	Channel	Frequency (MHz)	RU Config	Soft Set	
				ANT1	ANT2
11ax(HE20)	CH149	5745	26	7	10
			52	7	10
			106	7	10
	CH157	5785	26	7	11
			52	7	11
			106	7	11
	CH165	5825	26	7	11
			52	7	11
			106	7	11
11ax(HE40)	CH151	5755	26	7	11
			52	7	11
			106	7	10
			242	7	10
	CH159	5795	26	8	11
			52	8	11
			106	8	11
			242	8	11
11ax(HE80)	CH155	5775	26	7	10
			52	7	10
			106	7	10
			242	7	10
			484	8	11

Run Software:

```
C:\Windows\System32\cmd.e x + v
SEID00GHMG:/ #
SEID00GHMG:/ #
SEID00GHMG:/ #
SEID00GHMG:/ #
SEID00GHMG:/ #
SEID00GHMG:/ #
SEID00GHMG:/ # wl pkteng_stop tx
wl down
wl mpc 0
wl phy_watchdog 0
wl country ALL
wl band a
wl channel 36
wl btc_mode 0
wl mimo_txbw -1
wl up
wl phy_forcecal 1
wl scanSEID00GHMG:/ # wl down
uppress 1
wl txchain 1
wl 5g_rate -r 6 -b 20
wl phy_txpwrctrl 1
wl txpwr1 -o -d 9
wl pkteng_start 00:90:4c:14:43:19 tx 1SEID00GHMG:/ # wl mpc 0
0 1000 0SEID00GHMG:/ # wl phy_watchdog 0
SEID00GHMG:/ # wl country ALL
SEID00GHMG:/ # wl band a
SEID00GHMG:/ # wl channel 36
SEID00GHMG:/ # wl btc_mode 0
SEID00GHMG:/ # wl mimo_txbw -1
SEID00GHMG:/ # wl up
SEID00GHMG:/ # wl phy_forcecal 1
SEID00GHMG:/ # wl scansuppress 1
SEID00GHMG:/ # wl txchain 1
SEID00GHMG:/ # wl 5g_rate -r 6 -b 20

SEID00GHMG:/ # wl phy_txpwrctrl 1
SEID00GHMG:/ # wl txpwr1 -o -d 9
SEID00GHMG:/ # wl pkteng_start 00:90:4c:14:43:19 tx 100 1000 0
SEID00GHMG:/ #
SEID00GHMG:/ #
```

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	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
4	ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024	American National Standard for Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Test Verdict

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

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	46% to 68%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+19.8℃ to +26.4℃
Working Voltage of the EUT	NV (Normal Voltage)	3.80 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420186	2026.05.11	2027.05.10
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060127	2025.12.25	2026.12.24
Power meter	R&S	NRP8S	101498	2026.06.23	2027.06.22
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Test Antenna-Bi-Log	Schwarzbeck	VULB 9163	01414	2023.11.03	2026.11.02
Test Antenna-Horn	Schwarzbeck	BBHA 9120D	02459	2023.10.26	2026.10.25
Test Antenna-Loop	Schwarzbeck	FMZB 1513-60	00015	2026.05.12	2027.05.11
Anechoic Chamber	YIHENG	C8-966	N/A	2024.05.12	2027.05.11
EMI Receiver	KEYSIGHT	N9038A	MY55330121	2025.12.26	2026.12.25
Filtering unit	BALUN	SU319F	LW-SZ19D0001F01	N/A	N/A
Switching unit	BALUN	SU319	LW-SZ19D0001S01	N/A	N/A
EMI Receiver	KEYSIGHT	N9038B	MY61380132	2025.12.26	2026.12.25
LISN	SCHWARZBECK MESS- ELEKTRONIK	NSLK8127	01009	2026.06.22	2027.06.21
Shielded Enclosure	YiHeng Electronic Co., Ltd	4.3m*2.9m*2.4 m	235	2024.11.05	2027.11.04

Description	Manufacturer	Model	Parameter
Power Adapter	JIN XIN YU POWER (SHENGZHEN) SUPPLY CO., LTD	XVE073-4200150	100-240V/AC 50/60Hz 1.5A MAX

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V3.0.1.528	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

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

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

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

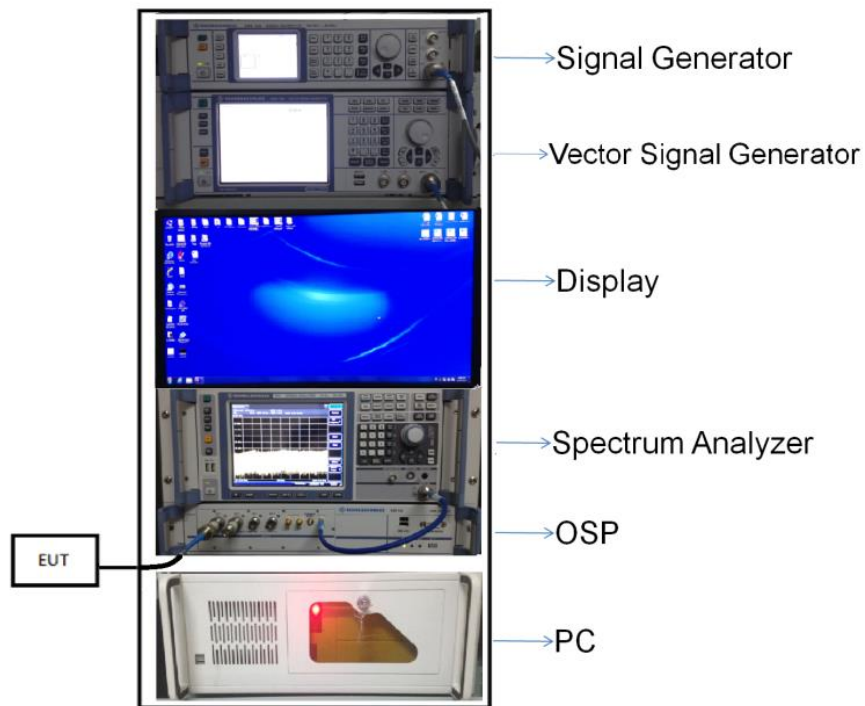
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

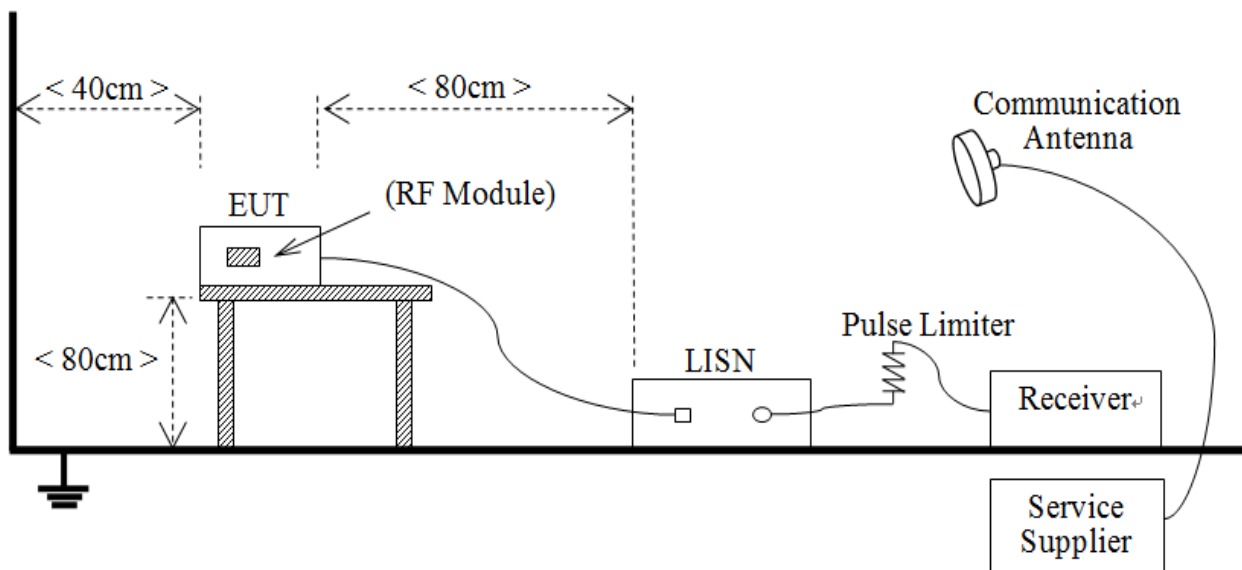
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



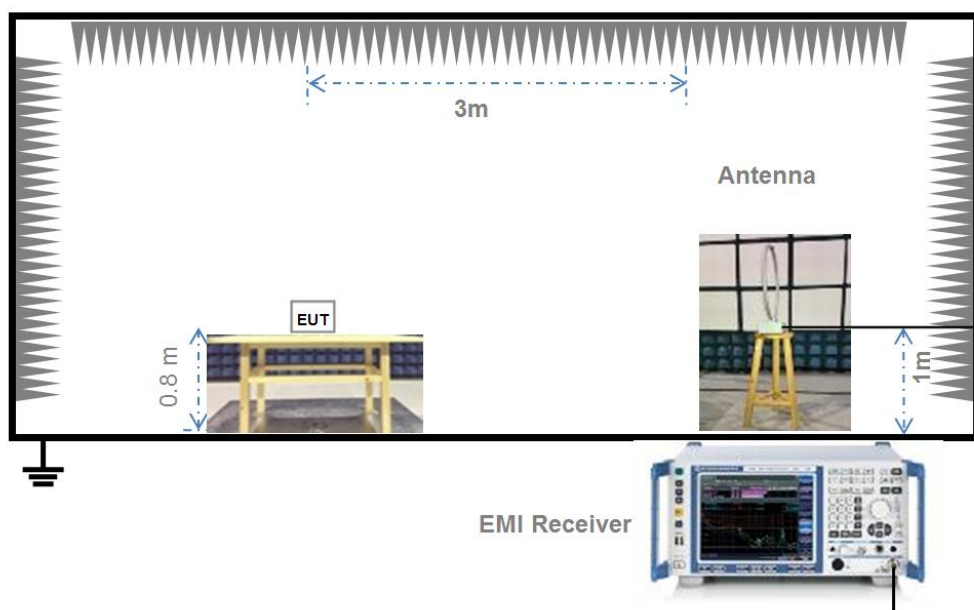
(Diagram 1)

4.5.2 For AC Power Supply Port Test



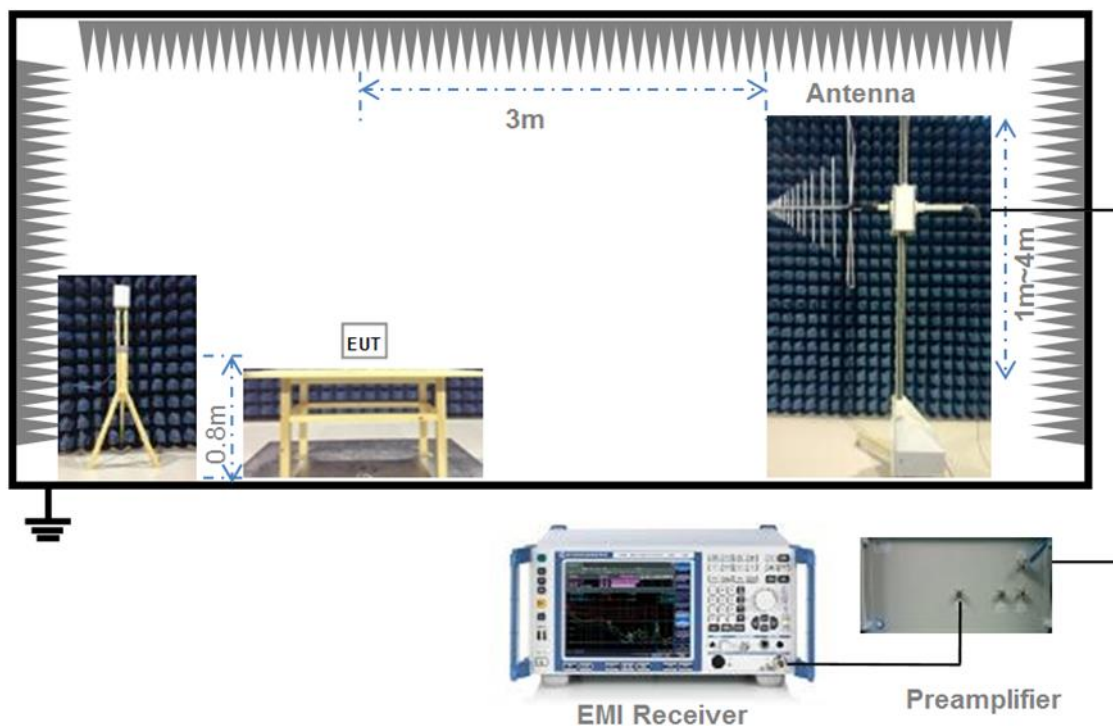
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



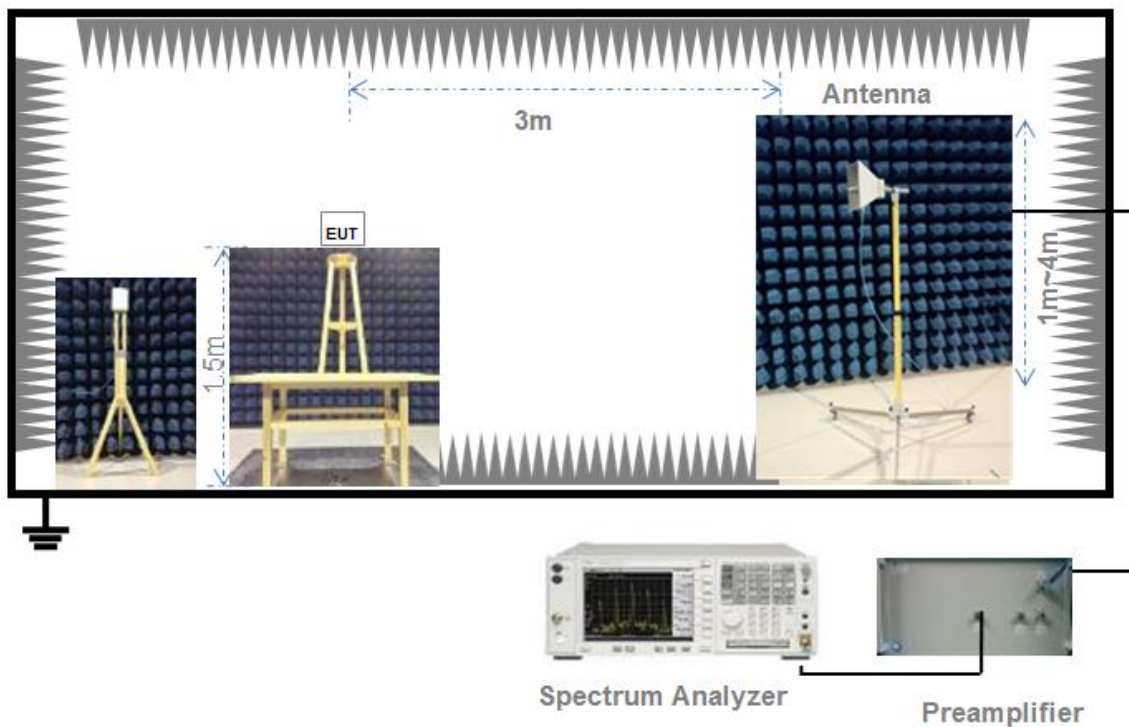
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Maximum conducted (average) output power

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

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

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

c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

d) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle.

Measurements of duty cycle

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

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

Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.

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

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

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW $\geq$ RBW,
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Occupied Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. Set Span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW.
4. Set VBW $\geq 3 \times$ RBW.
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used. Use the 99% power bandwidth function of the instrument.
6. Use the 99% power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

6 dB bandwidth

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.725–5.85 GHz. The following procedure shall be used for measuring this bandwidth:

1. Set RBW = 100 kHz,
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

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

1. Measure the duty cycle, x , of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 510 kHz/1 MHz.
4. Set VBW $\geq 3 \times$ RBW.
5. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
8. Do not use sweep triggering. Allow the sweep to “free run.”
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
11. Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log (1/0.25) = 6 \text{ dB}$ if the duty cycle is 25%.

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

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

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

5.5.1 Limit

FCC §15.209 & 15.407(b)

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

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

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

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

Radiated Spurious Emissions:

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 C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 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

- 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).
- 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)
- 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 C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024. 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

Band Edge (Restricted-band):

If the EUT can be configured or modified to transmit continuously ($D \geq 98\%$), measured using the following method (with EUT transmitting continuously):

Use the following spectrum analyzer settings:

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band-edge).

RBW = 100 kHz.

VBW $\geq [3 \times \text{RBW}]$.

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$.

Averaging type = power (i.e., rms):

As an alternative, the detector and averaging type may be set for linear voltage averaging.

Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.

Sweep time = auto.

Perform a trace average of at least 100 traces.

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band-power measurement function with band limits set equal to the emission frequency ($f_{\text{emission}} \pm 0.5 \text{ MHz}$). If the instrument does not have a band-power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by $f_{\text{emission}} \pm 0.5 \text{ MHz}$.

If continuous transmission of the EUT ($D \geq 98\%$) cannot be achieved and the duty cycle is constant (duty cycle variations are less $\pm 2\%$), then the following procedure may be used to measure the average power of unwanted emissions within 2 MHz of the authorized band-edge:

RBW = 100 kHz.

VBW $\geq [3 \times \text{RBW}]$.

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$.

Averaging type = power (i.e., rms):

Detector = Power averaging (rms), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$. Satisfying this condition might 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.

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 to use linear voltage averaging. Log or dB averaging shall not be used.

Sweep time = auto.

Perform a trace average of at least 100 traces.

Compute the power by integrating the spectrum over 1 MHz using the instrument's band-power

measurement function with band limits set equal to the emission frequency (f_{emission}) ± 0.5 MHz. If the spectrum analyzer does not have a band-power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by f_{emission} ± 0.5 MHz.

A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% 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 $[10 \log (1 / D)]$, where D is the duty cycle.
- 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $[20 \log (1 / D)]$, where D is the duty cycle.
- 3) If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Reduction of the measured emission amplitude levels to account for operational duty cycle is not permitted. Determining compliance is based on emission levels occurring during transmission—it is not based on an average across ON and OFF times of the transmitter.

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

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

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	1.40	1.49	93.70%	0.28
11n(HT20)/11ac(VHT20)	1.93	1.95	99.18%	0.04
11n(HT40)/11ac(VHT40)	1.54	1.57	97.71%	0.10
11ac(VHT80)	0.89	1.05	85.09%	0.70
11ax(HE20)	1.02	1.12	91.34%	0.39
11ax(HE40)	0.54	0.64	84.66%	0.72
11ax(HE80)	0.29	0.39	74.10%	1.30

Test DataConducted PowerANT1

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	10.48	11.17	250	Pass
11a	CH44	10.52	11.27	250	Pass
11a	CH48	10.42	11.02	250	Pass
11n(HT20)	CH36	10.39	10.94	250	Pass
11n(HT20)	CH44	10.48	11.17	250	Pass
11n(HT20)	CH48	11.45	13.96	250	Pass
11n(HT40)	CH38	10.62	11.53	250	Pass
11n(HT40)	CH46	10.83	12.11	250	Pass
11ac(VHT20)	CH36	10.43	11.04	250	Pass
11ac(VHT20)	CH44	10.49	11.19	250	Pass
11ac(VHT20)	CH48	11.45	13.96	250	Pass
11ac(VHT40)	CH38	10.63	11.56	250	Pass
11ac(VHT40)	CH46	10.82	12.08	250	Pass
11ac(VHT80)	CH42	10.42	11.02	250	Pass
11ax(HE20)(SU)	CH36	10.44	11.07	250	Pass
11ax(HE20)(SU)	CH44	10.48	11.17	250	Pass
11ax(HE20)(SU)	CH48	10.42	11.02	250	Pass
11ax(HE40)(SU)	CH38	10.95	12.45	250	Pass
11ax(HE40)(SU)	CH46	11.01	12.62	250	Pass
11ax(HE80)(SU)	CH42	10.54	11.32	250	Pass

U-NII-1 (5150 - 5250 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH36	26	5.41	3.48	250	Pass
		52	8.30	6.76	250	Pass
		106	10.73	11.83	250	Pass
	CH44	26	5.45	3.51	250	Pass
		52	8.00	6.31	250	Pass
		106	10.78	11.97	250	Pass
	CH48	26	5.52	3.56	250	Pass
		52	8.11	6.47	250	Pass
		106	10.88	12.25	250	Pass
11ax(HE40)	CH38	26	4.76	2.99	250	Pass
		52	7.90	6.17	250	Pass
		106	10.55	11.35	250	Pass
		242	10.47	11.14	250	Pass
	CH46	26	5.01	3.17	250	Pass
		52	9.43	8.77	250	Pass
		106	10.94	12.42	250	Pass
		242	10.70	11.75	250	Pass
11ax(HE80)	CH42	26	5.08	3.22	250	Pass
		52	7.61	5.77	250	Pass
		106	10.55	11.35	250	Pass
		242	10.40	10.96	250	Pass
		484	10.58	11.43	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	11.21	13.21	250	Pass
11a	CH60	11.19	13.15	250	Pass
11a	CH64	11.20	13.18	250	Pass
11n(HT20)	CH52	11.16	13.06	250	Pass
11n(HT20)	CH60	11.15	13.03	250	Pass
11n(HT20)	CH64	11.14	13.00	250	Pass
11n(HT40)	CH54	10.21	10.50	250	Pass
11n(HT40)	CH62	11.36	13.68	250	Pass
11ac(VHT20)	CH52	11.18	13.12	250	Pass
11ac(VHT20)	CH60	11.17	13.09	250	Pass
11ac(VHT20)	CH64	11.10	12.88	250	Pass
11ac(VHT40)	CH54	10.15	10.35	250	Pass
11ac(VHT40)	CH62	11.33	13.58	250	Pass
11ac(VHT80)	CH58	8.33	6.81	250	Pass
11ax(HE20)(SU)	CH52	11.23	13.27	250	Pass
11ax(HE20)(SU)	CH60	11.16	13.06	250	Pass
11ax(HE20)(SU)	CH64	11.11	12.91	250	Pass
11ax(HE40)(SU)	CH54	10.52	11.27	250	Pass
11ax(HE40)(SU)	CH62	10.52	11.27	250	Pass
11ax(HE80)(SU)	CH58	8.65	7.33	250	Pass

U-NII-2A (5250 - 5350 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH52	26	10.37	10.89	250	Pass
		52	10.45	11.09	250	Pass
		106	10.47	11.14	250	Pass
	CH60	26	10.14	10.33	250	Pass
		52	10.35	10.84	250	Pass
		106	10.36	10.86	250	Pass
	CH64	26	10.50	11.22	250	Pass
		52	10.64	11.59	250	Pass
		106	10.46	11.12	250	Pass
11ax(HE40)	CH54	26	9.86	9.68	250	Pass
		52	10.25	10.59	250	Pass
		106	10.33	10.79	250	Pass
		242	10.14	10.33	250	Pass
	CH62	26	10.02	10.05	250	Pass
		52	10.43	11.04	250	Pass
		106	10.40	10.96	250	Pass
		242	10.02	10.05	250	Pass
11ax(HE80)	CH58	26	7.68	5.86	250	Pass
		52	10.25	10.59	250	Pass
		106	10.32	10.76	250	Pass
		242	10.11	10.26	250	Pass
		484	10.17	10.40	250	Pass

U-NII-2C (5470 - 5725 MHz)

Note²: Transmitting antennas of directional gain in U-NII-2C (5470 MHz to 5725 MHz) is 6.52 dBi

Formulas: Directional gain = GANT + Array Gain, *Array Gain* = 0.

Note³: The limit is 250 mW or 11 dBm + 10log B, whichever is less. In IC Standard, Where “B” is the 99% emissions bandwidth in MHz. In FCC Standard, Where “B” is the 26dB emissions bandwidth in MHz.

(Please refer to the section A.2).

Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	10.76	11.91	223	Pass
11a	CH116	11.06	12.76	223	Pass
11a	CH140	11.37	13.71	223	Pass
11n(HT20)	CH100	10.72	11.80	223	Pass
11n(HT20)	CH116	11.00	12.59	223	Pass
11n(HT20)	CH140	11.42	13.87	223	Pass
11n(HT40)	CH102	10.79	11.99	223	Pass
11n(HT40)	CH118	10.94	12.42	223	Pass
11n(HT40)	CH134	11.33	13.58	223	Pass
11ac(VHT20)	CH100	11.71	14.83	223	Pass
11ac(VHT20)	CH116	11.00	12.59	223	Pass
11ac(VHT20)	CH140	11.37	13.71	223	Pass
11ac(VHT40)	CH102	10.75	11.89	223	Pass
11ac(VHT40)	CH118	10.86	12.19	223	Pass
11ac(VHT40)	CH134	11.35	13.65	223	Pass
11ac(VHT80)	CH106	9.37	8.65	223	Pass
11ac(VHT80)	CH122	11.73	14.89	223	Pass
11ax(HE20)(SU)	CH100	10.89	12.27	223	Pass
11ax(HE20)(SU)	CH116	11.00	12.59	223	Pass
11ax(HE20)(SU)	CH140	11.46	14.00	223	Pass
11ax(HE40)(SU)	CH102	9.82	9.59	223	Pass
11ax(HE40)(SU)	CH118	11.12	12.94	223	Pass
11ax(HE40)(SU)	CH134	11.35	13.65	223	Pass
11ax(HE80)(SU)	CH106	8.32	6.79	223	Pass
11ax(HE80)(SU)	CH122	11.88	15.42	223	Pass

U-NII-2C (5470 - 5725 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH100	26	9.76	9.46	223	Pass
		52	11.15	13.03	223	Pass
		106	10.85	12.16	223	Pass
	CH116	26	10.33	10.79	223	Pass
		52	11.32	13.55	223	Pass
		106	11.35	13.65	223	Pass
	CH140	26	8.13	6.50	223	Pass
		52	10.68	11.69	223	Pass
		106	11.81	15.17	223	Pass
11ax(HE40)	CH102	26	9.31	8.53	223	Pass
		52	11.74	14.93	223	Pass
		106	11.83	15.24	223	Pass
		242	11.58	14.39	223	Pass
	CH118	26	9.74	9.42	223	Pass
		52	11.95	15.67	223	Pass
		106	11.06	12.76	223	Pass
		242	11.86	15.35	223	Pass
	CH134	26	9.06	8.05	223	Pass
		52	11.82	15.21	223	Pass
		106	11.66	14.66	223	Pass
		242	11.31	13.52	223	Pass
11ax(HE80)	CH106	26	7.91	6.18	223	Pass
		52	11.55	14.29	223	Pass
		106	11.75	14.96	223	Pass
		242	11.64	14.59	223	Pass
		484	11.57	14.35	223	Pass
	CH122	26	8.77	7.53	223	Pass
		52	11.24	13.30	223	Pass
		106	11.27	13.40	223	Pass
		242	10.99	12.56	223	Pass
		484	10.87	12.22	223	Pass

U-NII-3 (5725 - 5850 MHz)					
Note ⁴ : Transmitting antennas of directional gain in U-NII-3 (5725 MHz to 5850 MHz) is 6.52 dBi					
Formulas: Directional gain = GANT + Array Gain, <i>Array Gain</i> = 0.					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	8.31	6.78	887	Pass
11a	CH157	7.97	6.27	887	Pass
11a	CH165	9.16	8.24	887	Pass
11n(HT20)	CH149	8.59	7.23	887	Pass
11n(HT20)	CH157	8.19	6.59	887	Pass
11n(HT20)	CH165	8.89	7.74	887	Pass
11n(HT40)	CH151	9.44	8.79	887	Pass
11n(HT40)	CH159	9.31	8.53	887	Pass
11ac(VHT20)	CH149	8.35	6.84	887	Pass
11ac(VHT20)	CH157	8.21	6.62	887	Pass
11ac(VHT20)	CH165	9.09	8.11	887	Pass
11ac(VHT40)	CH151	9.45	8.81	887	Pass
11ac(VHT40)	CH159	9.34	8.59	887	Pass
11ac(VHT80)	CH155	8.89	7.74	887	Pass
11ax(HE20)(SU)	CH149	8.55	7.16	887	Pass
11ax(HE20)(SU)	CH157	9.39	8.69	887	Pass
11ax(HE20)(SU)	CH165	9.08	8.09	887	Pass
11ax(HE40)(SU)	CH151	8.34	6.82	887	Pass
11ax(HE40)(SU)	CH159	9.40	8.71	887	Pass
11ax(HE80)(SU)	CH155	9.16	8.24	887	Pass

U-NII-3 (5725 - 5850 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH149	26	8.54	7.14	887	Pass
		52	9.02	7.98	887	Pass
		106	9.02	7.98	887	Pass
	CH157	26	8.31	6.78	887	Pass
		52	8.53	7.13	887	Pass
		106	8.67	7.36	887	Pass
	CH165	26	8.30	6.76	887	Pass
		52	8.37	6.87	887	Pass
		106	8.18	6.58	887	Pass
11ax(HE40)	CH151	26	8.52	7.11	887	Pass
		52	8.38	6.89	887	Pass
		106	8.57	7.19	887	Pass
		242	8.33	6.81	887	Pass
	CH159	26	8.91	7.78	887	Pass
		52	9.31	8.53	887	Pass
		106	9.40	8.71	887	Pass
		242	9.16	8.24	887	Pass
11ax(HE80)	CH155	26	8.54	7.14	887	Pass
		52	8.94	7.83	887	Pass
		106	8.67	7.36	887	Pass
		242	8.44	6.98	887	Pass
		484	7.87	6.12	887	Pass

ANT2

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	10.64	11.59	250	Pass
11a	CH44	10.36	10.86	250	Pass
11a	CH48	10.23	10.54	250	Pass
11n(HT20)	CH36	10.61	11.51	250	Pass
11n(HT20)	CH44	11.24	13.30	250	Pass
11n(HT20)	CH48	10.99	12.56	250	Pass
11n(HT40)	CH38	10.62	11.53	250	Pass
11n(HT40)	CH46	10.40	10.96	250	Pass
11ac(VHT20)	CH36	10.58	11.43	250	Pass
11ac(VHT20)	CH44	10.26	10.62	250	Pass
11ac(VHT20)	CH48	11.00	12.59	250	Pass
11ac(VHT40)	CH38	10.64	11.59	250	Pass
11ac(VHT40)	CH46	10.27	10.64	250	Pass
11ac(VHT80)	CH42	10.28	10.67	250	Pass
11ax(HE20)(SU)	CH36	10.71	11.78	250	Pass
11ax(HE20)(SU)	CH44	11.31	13.52	250	Pass
11ax(HE20)(SU)	CH48	11.10	12.88	250	Pass
11ax(HE40)(SU)	CH38	11.19	13.15	250	Pass
11ax(HE40)(SU)	CH46	10.70	11.75	250	Pass
11ax(HE80)(SU)	CH42	10.48	11.17	250	Pass

U-NII-1 (5150 - 5250 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH36	26	5.12	3.25	250	Pass
		52	8.00	6.31	250	Pass
		106	10.87	12.22	250	Pass
	CH44	26	5.27	3.37	250	Pass
		52	7.64	5.81	250	Pass
		106	10.68	11.69	250	Pass
	CH48	26	5.10	3.24	250	Pass
		52	7.60	5.75	250	Pass
		106	10.66	11.64	250	Pass
11ax(HE40)	CH38	26	4.72	2.96	250	Pass
		52	7.52	5.65	250	Pass
		106	10.32	10.76	250	Pass
		242	10.73	11.83	250	Pass
	CH46	26	4.97	3.14	250	Pass
		52	7.67	5.85	250	Pass
		106	10.22	10.52	250	Pass
		242	10.35	10.84	250	Pass
11ax(HE80)	CH42	26	4.87	3.07	250	Pass
		52	7.64	5.81	250	Pass
		106	10.24	10.57	250	Pass
		242	10.69	11.72	250	Pass
		484	10.69	11.72	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	10.21	10.50	250	Pass
11a	CH60	10.90	12.30	250	Pass
11a	CH64	10.94	12.42	250	Pass
11n(HT20)	CH52	11.06	12.76	250	Pass
11n(HT20)	CH60	10.75	11.89	250	Pass
11n(HT20)	CH64	10.81	12.05	250	Pass
11n(HT40)	CH54	10.17	10.40	250	Pass
11n(HT40)	CH62	11.50	14.13	250	Pass
11ac(VHT20)	CH52	11.15	13.03	250	Pass
11ac(VHT20)	CH60	10.89	12.27	250	Pass
11ac(VHT20)	CH64	10.85	12.16	250	Pass
11ac(VHT40)	CH54	10.16	10.38	250	Pass
11ac(VHT40)	CH62	11.30	13.49	250	Pass
11ac(VHT80)	CH58	8.51	7.10	250	Pass
11ax(HE20)(SU)	CH52	11.30	13.49	250	Pass
11ax(HE20)(SU)	CH60	10.96	12.47	250	Pass
11ax(HE20)(SU)	CH64	10.91	12.33	250	Pass
11ax(HE40)(SU)	CH54	10.34	10.81	250	Pass
11ax(HE40)(SU)	CH62	10.11	10.26	250	Pass
11ax(HE80)(SU)	CH58	8.91	7.78	250	Pass

U-NII-2A (5250 - 5350 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH52	26	9.94	9.86	250	Pass
		52	10.34	10.81	250	Pass
		106	10.42	11.02	250	Pass
	CH60	26	9.62	9.16	250	Pass
		52	10.09	10.21	250	Pass
		106	10.11	10.26	250	Pass
	CH64	26	10.11	10.26	250	Pass
		52	10.39	10.94	250	Pass
		106	10.31	10.74	250	Pass
11ax(HE40)	CH54	26	9.65	9.23	250	Pass
		52	10.05	10.12	250	Pass
		106	10.23	10.54	250	Pass
		242	10.18	10.42	250	Pass
	CH62	26	9.59	9.10	250	Pass
		52	10.19	10.45	250	Pass
		106	10.27	10.64	250	Pass
		242	11.00	12.59	250	Pass
11ax(HE80)	CH58	26	7.72	5.92	250	Pass
		52	10.27	10.64	250	Pass
		106	10.37	10.89	250	Pass
		242	10.31	10.74	250	Pass
		484	10.29	10.69	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	11.09	12.85	250	Pass
11a	CH116	10.84	12.13	250	Pass
11a	CH140	10.68	11.69	250	Pass
11n(HT20)	CH100	11.16	13.06	250	Pass
11n(HT20)	CH116	11.89	15.45	250	Pass
11n(HT20)	CH140	10.58	11.43	250	Pass
11n(HT40)	CH102	11.46	14.00	250	Pass
11n(HT40)	CH118	10.72	11.80	250	Pass
11n(HT40)	CH134	11.13	12.97	250	Pass
11ac(VHT20)	CH100	11.12	12.94	250	Pass
11ac(VHT20)	CH116	11.88	15.42	250	Pass
11ac(VHT20)	CH140	11.64	14.59	250	Pass
11ac(VHT40)	CH102	11.42	13.87	250	Pass
11ac(VHT40)	CH118	10.73	11.83	250	Pass
11ac(VHT40)	CH134	11.24	13.30	250	Pass
11ac(VHT80)	CH106	9.83	9.62	250	Pass
11ac(VHT80)	CH122	11.31	13.52	250	Pass
11ax(HE20)(SU)	CH100	11.29	13.46	250	Pass
11ax(HE20)(SU)	CH116	10.71	11.78	250	Pass
11ax(HE20)(SU)	CH140	10.84	12.13	250	Pass
11ax(HE40)(SU)	CH102	10.53	11.30	250	Pass
11ax(HE40)(SU)	CH118	10.87	12.22	250	Pass
11ax(HE40)(SU)	CH134	11.26	13.37	250	Pass
11ax(HE80)(SU)	CH106	8.87	7.71	250	Pass
11ax(HE80)(SU)	CH122	11.47	14.03	250	Pass

U-NII-2C (5470 - 5725 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH100	26	8.81	7.60	250	Pass
		52	11.37	13.71	250	Pass
		106	11.30	13.49	250	Pass
	CH116	26	9.86	9.68	250	Pass
		52	11.04	12.71	250	Pass
		106	10.97	12.50	250	Pass
	CH140	26	7.28	5.35	250	Pass
		52	11.12	12.94	250	Pass
		106	11.07	12.79	250	Pass
11ax(HE40)	CH102	26	8.47	7.03	250	Pass
		52	11.01	12.62	250	Pass
		106	11.11	12.91	250	Pass
		242	11.06	12.76	250	Pass
	CH118	26	9.54	8.99	250	Pass
		52	11.96	15.70	250	Pass
		106	11.97	15.74	250	Pass
		242	11.83	15.24	250	Pass
	CH134	26	8.59	7.23	250	Pass
		52	11.26	13.37	250	Pass
		106	11.30	13.49	250	Pass
		242	10.81	12.05	250	Pass
11ax(HE80)	CH106	26	8.34	6.82	250	Pass
		52	11.16	13.06	250	Pass
		106	11.15	13.03	250	Pass
		242	10.99	12.56	250	Pass
		484	11.15	13.03	250	Pass
	CH122	26	8.90	7.76	250	Pass
		52	11.23	13.27	250	Pass
		106	11.18	13.12	250	Pass
		242	11.05	12.74	250	Pass
		484	11.53	14.22	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	9.43	8.77	1000	Pass
11a	CH157	8.95	7.85	1000	Pass
11a	CH165	8.60	7.24	1000	Pass
11n(HT20)	CH149	9.28	8.47	1000	Pass
11n(HT20)	CH157	8.88	7.73	1000	Pass
11n(HT20)	CH165	8.65	7.33	1000	Pass
11n(HT40)	CH151	8.62	7.28	1000	Pass
11n(HT40)	CH159	8.39	6.90	1000	Pass
11ac(VHT20)	CH149	9.20	8.32	1000	Pass
11ac(VHT20)	CH157	8.85	7.67	1000	Pass
11ac(VHT20)	CH165	8.61	7.26	1000	Pass
11ac(VHT40)	CH151	8.67	7.36	1000	Pass
11ac(VHT40)	CH159	8.46	7.01	1000	Pass
11ac(VHT80)	CH155	9.27	8.45	1000	Pass
11ax(HE20)(SU)	CH149	9.44	8.79	1000	Pass
11ax(HE20)(SU)	CH157	8.91	7.78	1000	Pass
11ax(HE20)(SU)	CH165	8.60	7.24	1000	Pass
11ax(HE40)(SU)	CH151	8.90	7.76	1000	Pass
11ax(HE40)(SU)	CH159	8.50	7.08	1000	Pass
11ax(HE80)(SU)	CH155	9.42	8.75	1000	Pass

U-NII-3 (5725 - 5850 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH149	26	8.55	7.16	1000	Pass
		52	8.44	6.98	1000	Pass
		106	8.54	7.14	1000	Pass
	CH157	26	8.98	7.91	1000	Pass
		52	9.10	8.13	1000	Pass
		106	9.12	8.17	1000	Pass
	CH165	26	9.26	8.43	1000	Pass
		52	9.33	8.57	1000	Pass
		106	9.17	8.26	1000	Pass
11ax(HE40)	CH151	26	9.23	8.38	1000	Pass
		52	9.35	8.61	1000	Pass
		106	8.40	6.92	1000	Pass
		242	8.24	6.67	1000	Pass
	CH159	26	8.86	7.69	1000	Pass
		52	8.97	7.89	1000	Pass
		106	9.07	8.07	1000	Pass
		242	9.02	7.98	1000	Pass
11ax(HE80)	CH155	26	8.26	6.70	1000	Pass
		52	8.35	6.84	1000	Pass
		106	8.35	6.84	1000	Pass
		242	8.28	6.73	1000	Pass
		484	8.73	7.46	1000	Pass

MIMO

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.57	22.76	236	Pass
11a	CH44	13.45	22.14	236	Pass
11a	CH48	13.34	21.56	236	Pass
11n(HT20)	CH36	13.51	22.45	250	Pass
11n(HT20)	CH44	13.89	24.47	250	Pass
11n(HT20)	CH48	14.24	26.52	250	Pass
11n(HT40)	CH38	13.63	23.07	250	Pass
11n(HT40)	CH46	13.63	23.07	250	Pass
11ac(VHT20)	CH36	13.52	22.47	250	Pass
11ac(VHT20)	CH44	13.39	21.81	250	Pass
11ac(VHT20)	CH48	14.24	26.55	250	Pass
11ac(VHT40)	CH38	13.65	23.15	250	Pass
11ac(VHT40)	CH46	13.56	22.72	250	Pass
11ac(VHT80)	CH42	13.36	21.68	250	Pass
11ax(HE20)(SU)	CH36	13.59	22.84	250	Pass
11ax(HE20)(SU)	CH44	13.93	24.69	250	Pass
11ax(HE20)(SU)	CH48	13.78	23.90	250	Pass
11ax(HE40)(SU)	CH38	14.08	25.60	250	Pass
11ax(HE40)(SU)	CH46	13.87	24.37	250	Pass
11ax(HE80)(SU)	CH42	13.52	22.49	250	Pass

U-NII-1 (5150 - 5250 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH36	26	8.28	6.73	250	Pass
		52	11.16	13.07	250	Pass
		106	13.81	24.05	250	Pass
	CH44	26	8.37	6.87	250	Pass
		52	10.83	12.12	250	Pass
		106	13.74	23.66	250	Pass
	CH48	26	8.33	6.80	250	Pass
		52	10.87	12.23	250	Pass
		106	13.78	23.89	250	Pass
11ax(HE40)	CH38	26	7.75	5.96	250	Pass
		52	10.72	11.82	250	Pass
		106	13.45	22.11	250	Pass
		242	13.61	22.97	250	Pass
	CH46	26	8.00	6.31	250	Pass
		52	11.65	14.62	250	Pass
		106	13.61	22.94	250	Pass
		242	13.54	22.59	250	Pass
11ax(HE80)	CH42	26	7.99	6.29	250	Pass
		52	10.64	11.58	250	Pass
		106	13.41	21.92	250	Pass
		242	13.56	22.69	250	Pass
		484	13.65	23.15	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	13.75	23.71	210	Pass
11a	CH60	14.06	25.45	210	Pass
11a	CH64	14.08	25.60	210	Pass
11n(HT20)	CH52	14.12	25.83	250	Pass
11n(HT20)	CH60	13.96	24.92	250	Pass
11n(HT20)	CH64	13.99	25.05	250	Pass
11n(HT40)	CH54	13.20	20.89	250	Pass
11n(HT40)	CH62	14.44	27.80	250	Pass
11ac(VHT20)	CH52	14.18	26.15	250	Pass
11ac(VHT20)	CH60	14.04	25.37	250	Pass
11ac(VHT20)	CH64	13.99	25.04	250	Pass
11ac(VHT40)	CH54	13.17	20.73	250	Pass
11ac(VHT40)	CH62	14.33	27.07	250	Pass
11ac(VHT80)	CH58	11.43	13.90	250	Pass
11ax(HE20)(SU)	CH52	14.28	26.76	250	Pass
11ax(HE20)(SU)	CH60	14.07	25.54	250	Pass
11ax(HE20)(SU)	CH64	14.02	25.24	250	Pass
11ax(HE40)(SU)	CH54	13.44	22.09	250	Pass
11ax(HE40)(SU)	CH62	13.33	21.53	250	Pass
11ax(HE80)(SU)	CH58	11.79	15.11	250	Pass

U-NII-2A (5250 - 5350 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH52	26	13.17	20.75	250	Pass
		52	13.41	21.91	250	Pass
		106	13.46	22.16	250	Pass
	CH60	26	12.90	19.49	250	Pass
		52	13.23	21.05	250	Pass
		106	13.25	21.12	250	Pass
	CH64	26	13.32	21.48	250	Pass
		52	13.53	22.53	250	Pass
		106	13.40	21.86	250	Pass
11ax(HE40)	CH54	26	12.77	18.91	250	Pass
		52	13.16	20.71	250	Pass
		106	13.29	21.33	250	Pass
		242	13.17	20.75	250	Pass
	CH62	26	12.82	19.15	250	Pass
		52	13.32	21.49	250	Pass
		106	13.35	21.61	250	Pass
		242	13.55	22.64	250	Pass
11ax(HE80)	CH58	26	10.71	11.78	250	Pass
		52	13.27	21.23	250	Pass
		106	13.36	21.65	250	Pass
		242	13.22	21.00	250	Pass
		484	13.24	21.09	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	13.94	24.77	146	Pass
11a	CH116	13.96	24.90	146	Pass
11a	CH140	14.05	25.40	146	Pass
11n(HT20)	CH100	13.96	24.86	250	Pass
11n(HT20)	CH116	14.48	28.04	250	Pass
11n(HT20)	CH140	14.03	25.30	250	Pass
11n(HT40)	CH102	14.15	25.99	250	Pass
11n(HT40)	CH118	13.84	24.22	250	Pass
11n(HT40)	CH134	14.24	26.55	250	Pass
11ac(VHT20)	CH100	14.44	27.77	250	Pass
11ac(VHT20)	CH116	14.47	28.01	250	Pass
11ac(VHT20)	CH140	14.52	28.30	250	Pass
11ac(VHT40)	CH102	14.11	25.75	250	Pass
11ac(VHT40)	CH118	13.81	24.02	250	Pass
11ac(VHT40)	CH134	14.31	26.95	250	Pass
11ac(VHT80)	CH106	12.62	18.27	250	Pass
11ac(VHT80)	CH122	14.54	28.41	250	Pass
11ax(HE20)(SU)	CH100	14.10	25.73	250	Pass
11ax(HE20)(SU)	CH116	13.87	24.37	250	Pass
11ax(HE20)(SU)	CH140	14.17	26.13	250	Pass
11ax(HE40)(SU)	CH102	13.20	20.89	250	Pass
11ax(HE40)(SU)	CH118	14.01	25.16	250	Pass
11ax(HE40)(SU)	CH134	14.32	27.01	250	Pass
11ax(HE80)(SU)	CH106	11.61	14.50	250	Pass
11ax(HE80)(SU)	CH122	14.69	29.45	250	Pass

U-NII-2C (5470 - 5725 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH100	26	12.32	17.07	250	Pass
		52	14.27	26.74	250	Pass
		106	14.09	25.65	250	Pass
	CH116	26	13.11	20.47	250	Pass
		52	14.19	26.26	250	Pass
		106	14.17	26.15	250	Pass
	CH140	26	10.74	11.85	250	Pass
		52	13.92	24.64	250	Pass
		106	14.47	27.96	250	Pass
11ax(HE40)	CH102	26	11.92	15.56	250	Pass
		52	14.40	27.55	250	Pass
		106	14.50	28.15	250	Pass
		242	14.34	27.15	250	Pass
	CH118	26	12.65	18.41	250	Pass
		52	14.97	31.37	250	Pass
		106	14.55	28.50	250	Pass
		242	14.86	30.59	250	Pass
	CH134	26	11.84	15.28	250	Pass
		52	14.56	28.57	250	Pass
		106	14.49	28.15	250	Pass
		242	14.08	25.57	250	Pass
11ax(HE80)	CH106	26	11.14	13.00	250	Pass
		52	14.37	27.35	250	Pass
		106	14.47	27.99	250	Pass
		242	14.34	27.15	250	Pass
		484	14.38	27.39	250	Pass
	CH122	26	11.85	15.30	250	Pass
		52	14.25	26.58	250	Pass
		106	14.24	26.52	250	Pass
		242	14.03	25.30	250	Pass
		484	14.22	26.44	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	11.92	15.55	579	Pass
11a	CH157	11.50	14.12	579	Pass
11a	CH165	11.90	15.49	579	Pass
11n(HT20)	CH149	11.96	15.70	1000	Pass
11n(HT20)	CH157	11.56	14.32	1000	Pass
11n(HT20)	CH165	11.78	15.07	1000	Pass
11n(HT40)	CH151	12.06	16.07	1000	Pass
11n(HT40)	CH159	11.88	15.43	1000	Pass
11ac(VHT20)	CH149	11.81	15.16	1000	Pass
11ac(VHT20)	CH157	11.55	14.30	1000	Pass
11ac(VHT20)	CH165	11.87	15.37	1000	Pass
11ac(VHT40)	CH151	12.09	16.17	1000	Pass
11ac(VHT40)	CH159	11.93	15.60	1000	Pass
11ac(VHT80)	CH155	12.09	16.20	1000	Pass
11ax(HE20)(SU)	CH149	12.03	15.95	1000	Pass
11ax(HE20)(SU)	CH157	12.17	16.47	1000	Pass
11ax(HE20)(SU)	CH165	11.86	15.34	1000	Pass
11ax(HE40)(SU)	CH151	11.64	14.59	1000	Pass
11ax(HE40)(SU)	CH159	11.98	15.79	1000	Pass
11ax(HE80)(SU)	CH155	12.30	16.99	1000	Pass

U-NII-3 (5725 - 5850 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH149	26	11.56	14.31	1000	Pass
		52	11.75	14.96	1000	Pass
		106	11.80	15.12	1000	Pass
	CH157	26	11.67	14.68	1000	Pass
		52	11.83	15.26	1000	Pass
		106	11.91	15.53	1000	Pass
	CH165	26	11.82	15.19	1000	Pass
		52	11.89	15.44	1000	Pass
		106	11.71	14.84	1000	Pass
11ax(HE40)	CH151	26	11.90	15.49	1000	Pass
		52	11.90	15.50	1000	Pass
		106	11.50	14.11	1000	Pass
		242	11.30	13.48	1000	Pass
	CH159	26	11.90	15.47	1000	Pass
		52	12.15	16.42	1000	Pass
		106	12.25	16.78	1000	Pass
		242	12.10	16.22	1000	Pass
11ax(HE80)	CH155	26	11.41	13.84	1000	Pass
		52	11.67	14.67	1000	Pass
		106	11.52	14.20	1000	Pass
		242	11.37	13.71	1000	Pass
		484	11.33	13.59	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note ¹: Test plots please refer to the document “Annex No.: Ti-EE26070260-604 Data Part 1.pdf”.

Note ²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

ANT1

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	21.50	16.68
11a	CH44	21.44	16.68
11a	CH48	21.45	16.69
11n(HT20)	CH36	22.14	17.82
11n(HT20)	CH44	21.74	17.78
11n(HT20)	CH48	21.91	17.79
11n(HT40)	CH38	40.48	36.26
11n(HT40)	CH46	40.32	36.23
11ac(VHT20)	CH36	34.88	18.13
11ac(VHT20)	CH44	27.23	17.94
11ac(VHT20)	CH48	22.68	17.87
11ac(VHT40)	CH38	40.39	36.24
11ac(VHT40)	CH46	40.52	36.25
11ac(VHT80)	CH42	115.30	76.02
11ax(HE20)(SU)	CH36	23.71	18.96
11ax(HE20)(SU)	CH44	21.55	18.96
11ax(HE20)(SU)	CH48	22.80	18.94
11ax(HE40)(SU)	CH38	40.56	37.63
11ax(HE40)(SU)	CH46	57.96	37.72
11ax(HE80)(SU)	CH42	107.50	77.38

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	26.02	16.89
11a	CH60	27.43	16.97
11a	CH64	24.41	16.84
11n(HT20)	CH52	30.95	18.04
11n(HT20)	CH60	30.42	18.03
11n(HT20)	CH64	22.15	17.87
11n(HT40)	CH54	40.85	36.28
11n(HT40)	CH62	40.25	36.26
11ac(VHT20)	CH52	22.51	17.83
11ac(VHT20)	CH60	21.99	17.83
11ac(VHT20)	CH64	21.98	17.84
11ac(VHT40)	CH54	42.44	36.26
11ac(VHT40)	CH62	40.43	36.25
11ac(VHT80)	CH58	85.14	75.79
11ax(HE20)(SU)	CH52	21.36	18.92
11ax(HE20)(SU)	CH60	21.42	18.91
11ax(HE20)(SU)	CH64	21.41	18.91
11ax(HE40)(SU)	CH54	40.48	37.66
11ax(HE40)(SU)	CH62	40.48	37.60
11ax(HE80)(SU)	CH58	82.50	77.33

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	21.53	16.72
11a	CH116	21.51	16.68
11a	CH140	21.52	16.72
11n(HT20)	CH100	21.69	17.79
11n(HT20)	CH116	25.47	17.90
11n(HT20)	CH140	22.43	17.84
11n(HT40)	CH102	40.48	36.25
11n(HT40)	CH118	43.95	36.24
11n(HT40)	CH134	40.64	36.30
11ac(VHT20)	CH100	21.88	17.80
11ac(VHT20)	CH116	29.31	17.93
11ac(VHT20)	CH140	21.76	17.83
11ac(VHT40)	CH102	40.33	36.22
11ac(VHT40)	CH118	40.40	36.26
11ac(VHT40)	CH134	40.69	36.26
11ac(VHT80)	CH106	82.83	75.70
11ac(VHT80)	CH122	88.75	75.89
11ax(HE20)(SU)	CH100	21.39	18.90
11ax(HE20)(SU)	CH116	21.34	18.92
11ax(HE20)(SU)	CH140	21.65	18.94
11ax(HE40)(SU)	CH102	40.59	37.65
11ax(HE40)(SU)	CH118	40.59	37.65
11ax(HE40)(SU)	CH134	40.52	37.64
11ax(HE80)(SU)	CH106	82.31	77.26
11ax(HE80)(SU)	CH122	82.80	77.30

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	21.68	16.67
11a	CH157	21.56	16.65
11a	CH165	21.47	16.66
11n(HT20)	CH149	21.92	17.81
11n(HT20)	CH157	25.64	17.85
11n(HT20)	CH165	25.04	17.86
11n(HT40)	CH151	46.83	36.29
11n(HT40)	CH159	57.07	36.31
11ac(VHT20)	CH149	24.15	17.84
11ac(VHT20)	CH157	26.19	17.86
11ac(VHT20)	CH165	24.34	17.81
11ac(VHT40)	CH151	47.86	36.30
11ac(VHT40)	CH159	53.66	36.33
11ac(VHT80)	CH155	91.66	75.90
11ax(HE20)(SU)	CH149	21.73	18.93
11ax(HE20)(SU)	CH157	22.51	18.93
11ax(HE20)(SU)	CH165	21.54	18.89
11ax(HE40)(SU)	CH151	51.63	37.67
11ax(HE40)(SU)	CH159	57.57	37.73
11ax(HE80)(SU)	CH155	82.77	77.34

ANT2

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	21.45	16.65
11a	CH44	21.51	16.68
11a	CH48	21.66	16.69
11n(HT20)	CH36	21.73	17.86
11n(HT20)	CH44	24.75	17.84
11n(HT20)	CH48	22.42	17.87
11n(HT40)	CH38	40.20	36.21
11n(HT40)	CH46	40.29	36.24
11ac(VHT20)	CH36	24.66	17.88
11ac(VHT20)	CH44	22.13	17.87
11ac(VHT20)	CH48	23.66	17.86
11ac(VHT40)	CH38	40.43	36.21
11ac(VHT40)	CH46	42.91	36.28
11ac(VHT80)	CH42	82.39	75.82
11ax(HE20)(SU)	CH36	21.53	18.95
11ax(HE20)(SU)	CH44	21.39	18.93
11ax(HE20)(SU)	CH48	21.63	18.92
11ax(HE40)(SU)	CH38	40.52	37.58
11ax(HE40)(SU)	CH46	40.50	37.59
11ax(HE80)(SU)	CH42	82.23	77.17

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	22.43	16.67
11a	CH60	21.44	16.69
11a	CH64	21.49	16.69
11n(HT20)	CH52	21.66	17.85
11n(HT20)	CH60	21.89	17.81
11n(HT20)	CH64	21.91	17.82
11n(HT40)	CH54	40.41	36.25
11n(HT40)	CH62	40.52	36.26
11ac(VHT20)	CH52	23.28	17.86
11ac(VHT20)	CH60	22.50	17.84
11ac(VHT20)	CH64	21.68	17.81
11ac(VHT40)	CH54	42.69	36.26
11ac(VHT40)	CH62	40.36	36.28
11ac(VHT80)	CH58	82.28	75.82
11ax(HE20)(SU)	CH52	21.62	18.92
11ax(HE20)(SU)	CH60	21.59	18.94
11ax(HE20)(SU)	CH64	21.57	18.91
11ax(HE40)(SU)	CH54	40.79	37.61
11ax(HE40)(SU)	CH62	40.40	37.58
11ax(HE80)(SU)	CH58	82.59	77.17

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	21.48	16.71
11a	CH116	21.55	16.68
11a	CH140	24.93	16.77
11n(HT20)	CH100	21.78	17.77
11n(HT20)	CH116	25.39	17.85
11n(HT20)	CH140	30.94	17.96
11n(HT40)	CH102	40.43	36.23
11n(HT40)	CH118	47.52	36.31
11n(HT40)	CH134	54.39	36.37
11ac(VHT20)	CH100	21.74	17.85
11ac(VHT20)	CH116	24.46	17.87
11ac(VHT20)	CH140	23.72	17.85
11ac(VHT40)	CH102	40.53	36.22
11ac(VHT40)	CH118	53.30	36.34
11ac(VHT40)	CH134	50.98	36.36
11ac(VHT80)	CH106	82.03	75.76
11ac(VHT80)	CH122	96.16	75.85
11ax(HE20)(SU)	CH100	22.99	18.97
11ax(HE20)(SU)	CH116	23.68	18.94
11ax(HE20)(SU)	CH140	21.87	18.95
11ax(HE40)(SU)	CH102	41.14	37.68
11ax(HE40)(SU)	CH118	43.97	37.68
11ax(HE40)(SU)	CH134	44.30	37.68
11ax(HE80)(SU)	CH106	82.65	77.19
11ax(HE80)(SU)	CH122	82.22	77.20

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	24.06	16.79
11a	CH157	24.09	16.72
11a	CH165	24.10	16.74
11n(HT20)	CH149	24.69	17.91
11n(HT20)	CH157	24.79	17.84
11n(HT20)	CH165	26.57	17.92
11n(HT40)	CH151	75.55	36.58
11n(HT40)	CH159	61.82	36.41
11ac(VHT20)	CH149	27.04	17.94
11ac(VHT20)	CH157	26.04	17.88
11ac(VHT20)	CH165	26.19	17.92
11ac(VHT40)	CH151	64.14	36.53
11ac(VHT40)	CH159	57.28	36.41
11ac(VHT80)	CH155	82.56	75.98
11ax(HE20)(SU)	CH149	25.03	19.01
11ax(HE20)(SU)	CH157	22.37	18.93
11ax(HE20)(SU)	CH165	23.37	18.94
11ax(HE40)(SU)	CH151	69.75	37.87
11ax(HE40)(SU)	CH159	57.93	37.73
11ax(HE80)(SU)	CH155	82.70	77.33

A.3 6 dB Bandwidth

Note ¹: Test plots please refer to the document “Annex No.: Ti-EE26070260-604 Data Part 2.pdf”.

Note ²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

ANT1

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.50	500.00	Pass
11a	CH157	16.20	500.00	Pass
11a	CH165	16.50	500.00	Pass
11n(HT20)	CH149	17.70	500.00	Pass
11n(HT20)	CH157	17.70	500.00	Pass
11n(HT20)	CH165	17.70	500.00	Pass
11n(HT40)	CH151	35.90	500.00	Pass
11n(HT40)	CH159	35.60	500.00	Pass
11ac(VHT20)	CH149	17.70	500.00	Pass
11ac(VHT20)	CH157	17.50	500.00	Pass
11ac(VHT20)	CH165	17.50	500.00	Pass
11ac(VHT40)	CH151	35.90	500.00	Pass
11ac(VHT40)	CH159	35.70	500.00	Pass
11ac(VHT80)	CH155	75.70	500.00	Pass
11ax(HE20)(SU)	CH149	18.60	500.00	Pass
11ax(HE20)(SU)	CH157	18.90	500.00	Pass
11ax(HE20)(SU)	CH165	18.80	500.00	Pass
11ax(HE40)(SU)	CH151	37.80	500.00	Pass
11ax(HE40)(SU)	CH159	37.80	500.00	Pass
11ax(HE80)(SU)	CH155	77.40	500.00	Pass

ANT2

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.50	500.00	Pass
11a	CH157	16.50	500.00	Pass
11a	CH165	16.50	500.00	Pass
11n(HT20)	CH149	17.70	500.00	Pass
11n(HT20)	CH157	17.50	500.00	Pass
11n(HT20)	CH165	17.50	500.00	Pass
11n(HT40)	CH151	35.90	500.00	Pass
11n(HT40)	CH159	35.60	500.00	Pass
11ac(VHT20)	CH149	17.80	500.00	Pass
11ac(VHT20)	CH157	17.70	500.00	Pass
11ac(VHT20)	CH165	17.70	500.00	Pass
11ac(VHT40)	CH151	35.90	500.00	Pass
11ac(VHT40)	CH159	35.60	500.00	Pass
11ac(VHT80)	CH155	75.50	500.00	Pass
11ax(HE20)(SU)	CH149	18.70	500.00	Pass
11ax(HE20)(SU)	CH157	18.60	500.00	Pass
11ax(HE20)(SU)	CH165	18.60	500.00	Pass
11ax(HE40)(SU)	CH151	37.80	500.00	Pass
11ax(HE40)(SU)	CH159	37.80	500.00	Pass
11ax(HE80)(SU)	CH155	77.20	500.00	Pass

A.4 Power Spectral Density

Note¹: Test plots please refer to the document “Annex No.: Ti-EE26070260-604 Data Part 3.pdf”.

Note²: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band of the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For IC standard, if transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density of U-NII-3 (5725 - 5850 MHz) shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Data

ANT1

U-NII-1 (5150 - 5250 MHz)						
Mode	Channel	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	-0.25	0.28	0.04	11.00	Pass
11a	CH44	-0.23	0.28	0.05	11.00	Pass
11a	CH48	-0.42	0.28	-0.14	11.00	Pass
11n(HT20)	CH36	-0.55	0.04	-0.52	11.00	Pass
11n(HT20)	CH44	-0.48	0.04	-0.44	11.00	Pass
11n(HT20)	CH48	0.45	0.04	0.49	11.00	Pass
11n(HT40)	CH38	-3.28	0.10	-3.18	11.00	Pass
11n(HT40)	CH46	-2.91	0.10	-2.81	11.00	Pass
11ac(VHT20)	CH36	-0.49	0.04	-0.46	11.00	Pass
11ac(VHT20)	CH44	-0.47	0.04	-0.43	11.00	Pass
11ac(VHT20)	CH48	0.46	0.04	0.49	11.00	Pass
11ac(VHT40)	CH38	-3.24	0.10	-3.14	11.00	Pass
11ac(VHT40)	CH46	-2.88	0.10	-2.78	11.00	Pass
11ac(VHT80)	CH42	-6.37	0.70	-5.67	11.00	Pass
11ax(HE20)(SU)	CH36	-0.46	0.39	-0.07	11.00	Pass
11ax(HE20)(SU)	CH44	-0.41	0.39	-0.02	11.00	Pass
11ax(HE20)(SU)	CH48	-0.51	0.39	-0.12	11.00	Pass
11ax(HE40)(SU)	CH38	-4.40	0.72	-3.67	11.00	Pass
11ax(HE40)(SU)	CH46	-4.30	0.72	-3.57	11.00	Pass
11ax(HE80)(SU)	CH42	-7.43	1.30	-6.13	11.00	Pass

U-NII-1 (5150 - 5250 MHz)							
Mode	Channel	RU Config	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11ax(HE20)	CH36	26	2.22	0.39	2.61	11.00	Pass
		52	2.14	0.39	2.53	11.00	Pass
		106	1.65	0.39	2.04	11.00	Pass
	CH44	26	2.21	0.39	2.60	11.00	Pass
		52	1.83	0.39	2.22	11.00	Pass
		106	1.64	0.39	2.04	11.00	Pass
	CH48	26	2.09	0.39	2.49	11.00	Pass
		52	1.97	0.39	2.36	11.00	Pass
		106	1.66	0.39	2.05	11.00	Pass
11ax(HE40)	CH38	26	1.70	0.72	2.42	11.00	Pass
		52	1.83	0.72	2.55	11.00	Pass
		106	1.65	0.72	2.37	11.00	Pass
		242	-1.70	0.72	-0.98	11.00	Pass
	CH46	26	2.00	0.72	2.73	11.00	Pass
		52	2.40	0.72	3.12	11.00	Pass
		106	1.77	0.72	2.49	11.00	Pass
		242	-1.69	0.72	-0.96	11.00	Pass
11ax(HE80)	CH42	26	1.97	1.30	3.27	11.00	Pass
		52	1.58	1.30	2.88	11.00	Pass
		106	1.52	1.30	2.82	11.00	Pass
		242	-1.75	1.30	-0.45	11.00	Pass
		484	-4.54	1.30	-3.24	11.00	Pass

U-NII-2A (5250 - 5350 MHz)						
Mode	Channel	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH52	0.44	0.28	0.72	11.00	Pass
11a	CH60	0.42	0.28	0.70	11.00	Pass
11a	CH64	0.58	0.28	0.87	11.00	Pass
11n(HT20)	CH52	0.32	0.04	0.35	11.00	Pass
11n(HT20)	CH60	0.35	0.04	0.39	11.00	Pass
11n(HT20)	CH64	0.29	0.04	0.32	11.00	Pass
11n(HT40)	CH54	-3.56	0.10	-3.46	11.00	Pass
11n(HT40)	CH62	-2.24	0.10	-2.14	11.00	Pass
11ac(VHT20)	CH52	0.26	0.28	0.54	11.00	Pass
11ac(VHT20)	CH60	0.34	0.28	0.63	11.00	Pass
11ac(VHT20)	CH64	0.10	0.28	0.38	11.00	Pass
11ac(VHT40)	CH54	-3.65	0.04	-3.61	11.00	Pass
11ac(VHT40)	CH62	-2.47	0.04	-2.43	11.00	Pass
11ac(VHT80)	CH58	-8.46	0.10	-8.36	11.00	Pass
11ax(HE20)(SU)	CH52	0.33	0.39	0.72	11.00	Pass
11ax(HE20)(SU)	CH60	0.33	0.39	0.72	11.00	Pass
11ax(HE20)(SU)	CH64	0.18	0.39	0.57	11.00	Pass
11ax(HE40)(SU)	CH54	-4.75	0.72	-4.02	11.00	Pass
11ax(HE40)(SU)	CH62	-4.66	0.72	-3.93	11.00	Pass
11ax(HE80)(SU)	CH58	-9.50	1.30	-8.20	11.00	Pass

U-NII-2A (5250 - 5350 MHz)							
Mode	Channel	RU Config	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11ax(HE20)	CH52	26	7.11	0.39	7.50	11.00	Pass
		52	4.34	0.39	4.73	11.00	Pass
		106	1.27	0.39	1.66	11.00	Pass
	CH60	26	6.96	0.39	7.36	11.00	Pass
		52	4.20	0.39	4.60	11.00	Pass
		106	1.20	0.39	1.59	11.00	Pass
	CH64	26	7.29	0.39	7.68	11.00	Pass
		52	4.48	0.39	4.88	11.00	Pass
		106	1.38	0.39	1.77	11.00	Pass
11ax(HE40)	CH54	26	6.88	0.72	7.61	11.00	Pass
		52	4.16	0.72	4.89	11.00	Pass
		106	1.21	0.72	1.93	11.00	Pass
		242	-1.98	0.72	-1.25	11.00	Pass
	CH62	26	7.06	0.72	7.78	11.00	Pass
		52	4.40	0.72	5.13	11.00	Pass
		106	1.39	0.72	2.11	11.00	Pass
		242	-2.19	0.72	-1.47	11.00	Pass
11ax(HE80)	CH58	26	4.52	1.30	5.82	11.00	Pass
		52	4.20	1.30	5.50	11.00	Pass
		106	1.04	1.30	2.34	11.00	Pass
		242	-2.05	1.30	-0.75	11.00	Pass
		484	-4.73	1.30	-3.43	11.00	Pass

U-NII-2C (5470 - 5725 MHz)

Note³: Transmitting antennas of directional gain in U-NII-2C (5470 MHz to 5725 MHz) is 6.52 dBi

Formulas: Directional gain = GANT + Array Gain, *Array Gain* = 0.

Note⁴: The total PSD method used the sum spectra maxima across the outputs.

Mode	Channel	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH100	0.52	0.28	0.80	10.48	Pass
11a	CH116	0.84	0.28	1.12	10.48	Pass
11a	CH140	0.90	0.28	1.18	10.48	Pass
11n(HT20)	CH100	0.30	0.04	0.34	10.48	Pass
11n(HT20)	CH116	0.47	0.04	0.50	10.48	Pass
11n(HT20)	CH140	0.75	0.04	0.78	10.48	Pass
11n(HT40)	CH102	-2.61	0.10	-2.51	10.48	Pass
11n(HT40)	CH118	-2.45	0.10	-2.34	10.48	Pass
11n(HT40)	CH134	-2.06	0.10	-1.96	10.48	Pass
11ac(VHT20)	CH100	1.25	0.04	1.29	10.48	Pass
11ac(VHT20)	CH116	0.39	0.04	0.42	10.48	Pass
11ac(VHT20)	CH140	0.72	0.04	0.76	10.48	Pass
11ac(VHT40)	CH102	-2.64	0.10	-2.54	10.48	Pass
11ac(VHT40)	CH118	-2.61	0.10	-2.51	10.48	Pass
11ac(VHT40)	CH134	-2.09	0.10	-1.99	10.48	Pass
11ac(VHT80)	CH106	-6.82	0.70	-6.12	10.48	Pass
11ac(VHT80)	CH122	-4.65	0.70	-3.95	10.48	Pass
11ax(HE20)(SU)	CH100	0.59	0.39	0.98	10.48	Pass
11ax(HE20)(SU)	CH116	0.59	0.39	0.99	10.48	Pass
11ax(HE20)(SU)	CH140	0.78	0.39	1.17	10.48	Pass
11ax(HE40)(SU)	CH102	-4.89	0.72	-4.17	10.48	Pass
11ax(HE40)(SU)	CH118	-3.74	0.72	-3.02	10.48	Pass
11ax(HE40)(SU)	CH134	-3.52	0.72	-2.80	10.48	Pass
11ax(HE80)(SU)	CH106	-9.44	1.30	-8.14	10.48	Pass
11ax(HE80)(SU)	CH122	-5.97	1.30	-4.67	10.48	Pass

U-NII-2C (5470 - 5725 MHz)							
Mode	Channel	RU Config	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11ax(HE20)	CH100	26	7.02	0.39	7.41	10.48	Pass
		52	5.54	0.39	5.93	10.48	Pass
		106	2.22	0.39	2.62	10.48	Pass
	CH116	26	7.56	0.39	7.95	10.48	Pass
		52	5.71	0.39	6.11	10.48	Pass
		106	2.62	0.39	3.01	10.48	Pass
	CH140	26	5.20	0.39	5.59	10.48	Pass
		52	4.80	0.39	5.19	10.48	Pass
		106	2.90	0.39	3.29	10.48	Pass
11ax(HE40)	CH102	26	6.94	0.72	7.67	10.48	Pass
		52	6.29	0.72	7.01	10.48	Pass
		106	3.28	0.72	4.00	10.48	Pass
		242	-0.06	0.72	0.66	10.48	Pass
	CH118	26	7.12	0.72	7.85	10.48	Pass
		52	6.27	0.72	7.00	10.48	Pass
		106	2.39	0.72	3.11	10.48	Pass
		242	0.04	0.72	0.76	10.48	Pass
	CH134	26	6.20	0.72	6.92	10.48	Pass
		52	6.02	0.72	6.74	10.48	Pass
		106	2.78	0.72	3.50	10.48	Pass
		242	-0.64	0.72	0.08	10.48	Pass
11ax(HE80)	CH106	26	5.39	1.30	6.69	10.48	Pass
		52	5.99	1.30	7.29	10.48	Pass
		106	3.19	1.30	4.49	10.48	Pass
		242	0.07	1.30	1.37	10.48	Pass
		484	-2.89	1.30	-1.59	10.48	Pass
	CH122	26	5.95	1.30	7.25	10.48	Pass
		52	5.49	1.30	6.79	10.48	Pass
		106	2.41	1.30	3.71	10.48	Pass
		242	-0.97	1.30	0.33	10.48	Pass
		484	-3.77	1.30	-2.47	10.48	Pass

U-NII-3 (5725 - 5850 MHz)

Note⁵: Transmitting antennas of directional gain in U-NII-3 (5725 MHz to 5850 MHz) is 6.52 dBi

Formulas: Directional gain = GANT + Array Gain, *Array Gain* = 0.

Note⁶: The total PSD method used the sum spectra maxima across the outputs.

Mode	Channel	Measured PSD (dBm/500kHz)	Duty Factor	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	-4.88	0.28	-4.59	29.48	Pass
11a	CH157	-5.21	0.28	-4.92	29.48	Pass
11a	CH165	-4.03	0.28	-3.74	29.48	Pass
11n(HT20)	CH149	-4.81	0.04	-4.78	29.48	Pass
11n(HT20)	CH157	-5.29	0.04	-5.25	29.48	Pass
11n(HT20)	CH165	-4.58	0.04	-4.54	29.48	Pass
11n(HT40)	CH151	-7.03	0.10	-6.93	29.48	Pass
11n(HT40)	CH159	-7.12	0.10	-7.01	29.48	Pass
11ac(VHT20)	CH149	-4.99	0.04	-4.95	29.48	Pass
11ac(VHT20)	CH157	-5.26	0.04	-5.22	29.48	Pass
11ac(VHT20)	CH165	-4.28	0.04	-4.24	29.48	Pass
11ac(VHT40)	CH151	-6.95	0.10	-6.85	29.48	Pass
11ac(VHT40)	CH159	-7.01	0.10	-6.91	29.48	Pass
11ac(VHT80)	CH155	-10.59	0.70	-9.88	29.48	Pass
11ax(HE20)(SU)	CH149	-4.85	0.39	-4.45	29.48	Pass
11ax(HE20)(SU)	CH157	-3.99	0.39	-3.59	29.48	Pass
11ax(HE20)(SU)	CH165	-4.47	0.39	-4.08	29.48	Pass
11ax(HE40)(SU)	CH151	-9.47	0.72	-8.75	29.48	Pass
11ax(HE40)(SU)	CH159	-8.40	0.72	-7.67	29.48	Pass
11ax(HE80)(SU)	CH155	-11.39	1.30	-10.09	29.48	Pass

U-NII-3 (5725 - 5850 MHz)							
Mode	Channel	RU Config	Measured PSD (dBm/500k Hz)	Duty Factor	PSD (dBm/500k Hz)	FCC Limit (dBm/500k Hz)	Verdict
11ax(HE20)	CH52	26	2.72	0.39	3.12	29.48	Pass
		52	0.30	0.39	0.69	29.48	Pass
		106	-2.72	0.39	-2.33	29.48	Pass
	CH60	26	2.42	0.39	2.81	29.48	Pass
		52	-0.21	0.39	0.19	29.48	Pass
		106	-3.18	0.39	-2.79	29.48	Pass
	CH64	26	2.34	0.39	2.73	29.48	Pass
		52	-0.43	0.39	-0.04	29.48	Pass
		106	-3.76	0.39	-3.36	29.48	Pass
11ax(HE40)	CH54	26	3.16	0.72	3.88	29.48	Pass
		52	-0.30	0.72	0.42	29.48	Pass
		106	-3.19	0.72	-2.46	29.48	Pass
		242	-6.44	0.72	-5.72	29.48	Pass
	CH62	26	3.32	0.72	4.04	29.48	Pass
		52	0.56	0.72	1.28	29.48	Pass
		106	-2.46	0.72	-1.73	29.48	Pass
		242	-5.59	0.72	-4.87	29.48	Pass
11ax(HE80)	CH58	26	3.14	1.30	4.44	29.48	Pass
		52	0.34	1.30	1.64	29.48	Pass
		106	-2.99	1.30	-1.69	29.48	Pass
		242	-6.24	1.30	-4.94	29.48	Pass
		484	-9.32	1.30	-8.02	29.48	Pass

ANT2

U-NII-1 (5150 - 5250 MHz)						
Mode	Channel	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	-0.06	0.28	0.22	11.00	Pass
11a	CH44	-0.34	0.28	-0.06	11.00	Pass
11a	CH48	-0.52	0.28	-0.23	11.00	Pass
11n(HT20)	CH36	-0.40	0.04	-0.36	11.00	Pass
11n(HT20)	CH44	0.29	0.04	0.33	11.00	Pass
11n(HT20)	CH48	-0.02	0.04	0.02	11.00	Pass
11n(HT40)	CH38	-3.27	0.10	-3.17	11.00	Pass
11n(HT40)	CH46	-3.33	0.10	-3.23	11.00	Pass
11ac(VHT20)	CH36	-0.38	0.04	-0.35	11.00	Pass
11ac(VHT20)	CH44	-0.73	0.04	-0.69	11.00	Pass
11ac(VHT20)	CH48	0.03	0.04	0.07	11.00	Pass
11ac(VHT40)	CH38	-3.23	0.10	-3.13	11.00	Pass
11ac(VHT40)	CH46	-3.47	0.10	-3.37	11.00	Pass
11ac(VHT80)	CH42	-6.68	0.70	-5.98	11.00	Pass
11ax(HE20)(SU)	CH36	-0.29	0.39	0.10	11.00	Pass
11ax(HE20)(SU)	CH44	0.40	0.39	0.79	11.00	Pass
11ax(HE20)(SU)	CH48	0.06	0.39	0.46	11.00	Pass
11ax(HE40)(SU)	CH38	-4.04	0.72	-3.32	11.00	Pass
11ax(HE40)(SU)	CH46	-4.58	0.72	-3.86	11.00	Pass
11ax(HE80)(SU)	CH42	-7.48	1.30	-6.18	11.00	Pass

U-NII-1 (5150 - 5250 MHz)							
Mode	Channel	RU Config	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11ax(HE20)	CH36	26	2.00	0.39	2.40	11.00	Pass
		52	1.97	0.39	2.37	11.00	Pass
		106	1.72	0.39	2.12	11.00	Pass
	CH44	26	2.06	0.39	2.45	11.00	Pass
		52	1.62	0.39	2.02	11.00	Pass
		106	1.50	0.39	1.89	11.00	Pass
	CH48	26	2.03	0.39	2.42	11.00	Pass
		52	1.87	0.39	2.26	11.00	Pass
		106	1.42	0.39	1.81	11.00	Pass
11ax(HE40)	CH38	26	1.85	0.72	2.57	11.00	Pass
		52	1.46	0.72	2.18	11.00	Pass
		106	1.33	0.72	2.05	11.00	Pass
		242	-1.36	0.72	-0.64	11.00	Pass
	CH46	26	2.03	0.72	2.76	11.00	Pass
		52	1.75	0.72	2.47	11.00	Pass
		106	1.26	0.72	1.99	11.00	Pass
		242	-1.99	0.72	-1.27	11.00	Pass
11ax(HE80)	CH42	26	1.70	1.30	3.00	11.00	Pass
		52	1.75	1.30	3.05	11.00	Pass
		106	1.27	1.30	2.57	11.00	Pass
		242	-1.46	1.30	-0.16	11.00	Pass
		484	-4.26	1.30	-2.96	11.00	Pass

U-NII-2A (5250 - 5350 MHz)						
Mode	Channel	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH52	-0.47	0.28	-0.19	11.00	Pass
11a	CH60	0.11	0.28	0.39	11.00	Pass
11a	CH64	0.35	0.28	0.64	11.00	Pass
11n(HT20)	CH52	0.16	0.04	0.19	11.00	Pass
11n(HT20)	CH60	-0.08	0.04	-0.04	11.00	Pass
11n(HT20)	CH64	-0.11	0.04	-0.08	11.00	Pass
11n(HT40)	CH54	-3.64	0.10	-3.54	11.00	Pass
11n(HT40)	CH62	-2.57	0.10	-2.47	11.00	Pass
11ac(VHT20)	CH52	0.16	0.28	0.45	11.00	Pass
11ac(VHT20)	CH60	0.04	0.28	0.32	11.00	Pass
11ac(VHT20)	CH64	-0.02	0.28	0.26	11.00	Pass
11ac(VHT40)	CH54	-3.75	0.04	-3.71	11.00	Pass
11ac(VHT40)	CH62	-2.64	0.04	-2.60	11.00	Pass
11ac(VHT80)	CH58	-8.41	0.10	-8.31	11.00	Pass
11ax(HE20)(SU)	CH52	0.31	0.39	0.71	11.00	Pass
11ax(HE20)(SU)	CH60	0.04	0.39	0.44	11.00	Pass
11ax(HE20)(SU)	CH64	-0.02	0.39	0.37	11.00	Pass
11ax(HE40)(SU)	CH54	-4.98	0.72	-4.26	11.00	Pass
11ax(HE40)(SU)	CH62	-4.93	0.72	-4.21	11.00	Pass
11ax(HE80)(SU)	CH58	-9.01	1.30	-7.71	11.00	Pass

U-NII-2A (5250 - 5350 MHz)							
Mode	Channel	RU Config	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11ax(HE20)	CH52	26	6.92	0.39	7.31	11.00	Pass
		52	4.20	0.39	4.59	11.00	Pass
		106	1.27	0.39	1.66	11.00	Pass
	CH60	26	6.49	0.39	6.88	11.00	Pass
		52	3.97	0.39	4.37	11.00	Pass
		106	1.02	0.39	1.41	11.00	Pass
	CH64	26	7.18	0.39	7.58	11.00	Pass
		52	4.27	0.39	4.67	11.00	Pass
		106	1.08	0.39	1.47	11.00	Pass
11ax(HE40)	CH54	26	6.66	0.72	7.38	11.00	Pass
		52	3.96	0.72	4.68	11.00	Pass
		106	1.13	0.72	1.85	11.00	Pass
		242	-2.05	0.72	-1.32	11.00	Pass
	CH62	26	6.85	0.72	7.58	11.00	Pass
		52	4.17	0.72	4.89	11.00	Pass
		106	1.33	0.72	2.05	11.00	Pass
		242	-1.40	0.72	-0.67	11.00	Pass
11ax(HE80)	CH58	26	4.66	1.30	5.96	11.00	Pass
		52	4.28	1.30	5.58	11.00	Pass
		106	1.16	1.30	2.46	11.00	Pass
		242	-1.95	1.30	-0.64	11.00	Pass
		484	-4.59	1.30	-3.28	11.00	Pass

U-NII-2C (5470 - 5725 MHz)						
Mode	Channel	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH100	0.88	0.28	1.16	11.00	Pass
11a	CH116	0.64	0.28	0.92	11.00	Pass
11a	CH140	0.22	0.28	0.50	11.00	Pass
11n(HT20)	CH100	0.78	0.04	0.82	11.00	Pass
11n(HT20)	CH116	1.39	0.04	1.42	11.00	Pass
11n(HT20)	CH140	-0.08	0.04	-0.04	11.00	Pass
11n(HT40)	CH102	-1.98	0.10	-1.87	11.00	Pass
11n(HT40)	CH118	-2.80	0.10	-2.70	11.00	Pass
11n(HT40)	CH134	-2.42	0.10	-2.32	11.00	Pass
11ac(VHT20)	CH100	0.72	0.04	0.76	11.00	Pass
11ac(VHT20)	CH116	1.39	0.04	1.42	11.00	Pass
11ac(VHT20)	CH140	1.07	0.04	1.10	11.00	Pass
11ac(VHT40)	CH102	-1.72	0.10	-1.62	11.00	Pass
11ac(VHT40)	CH118	-2.65	0.10	-2.55	11.00	Pass
11ac(VHT40)	CH134	-2.26	0.10	-2.16	11.00	Pass
11ac(VHT80)	CH106	-6.24	0.70	-5.54	11.00	Pass
11ac(VHT80)	CH122	-5.21	0.70	-4.51	11.00	Pass
11ax(HE20)(SU)	CH100	0.90	0.39	1.30	11.00	Pass
11ax(HE20)(SU)	CH116	0.40	0.39	0.79	11.00	Pass
11ax(HE20)(SU)	CH140	0.22	0.39	0.61	11.00	Pass
11ax(HE40)(SU)	CH102	-4.16	0.72	-3.44	11.00	Pass
11ax(HE40)(SU)	CH118	-4.05	0.72	-3.33	11.00	Pass
11ax(HE40)(SU)	CH134	-3.47	0.72	-2.75	11.00	Pass
11ax(HE80)(SU)	CH106	-8.52	1.30	-7.22	11.00	Pass
11ax(HE80)(SU)	CH122	-6.15	1.30	-4.85	11.00	Pass

U-NII-2C (5470 - 5725 MHz)							
Mode	Channel	RU Config	Measured PSD (dBm/MHz)	Duty Factor	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11ax(HE20)	CH100	26	6.23	0.39	6.63	11.00	Pass
		52	5.81	0.39	6.20	11.00	Pass
		106	2.73	0.39	3.13	11.00	Pass
	CH116	26	7.28	0.39	7.67	11.00	Pass
		52	5.31	0.39	5.70	11.00	Pass
		106	2.23	0.39	2.63	11.00	Pass
	CH140	26	4.46	0.39	4.86	11.00	Pass
		52	5.39	0.39	5.78	11.00	Pass
		106	2.18	0.39	2.57	11.00	Pass
11ax(HE40)	CH102	26	6.10	0.72	6.82	11.00	Pass
		52	5.53	0.72	6.25	11.00	Pass
		106	2.68	0.72	3.40	11.00	Pass
		242	-0.60	0.72	0.12	11.00	Pass
	CH118	26	7.16	0.72	7.89	11.00	Pass
		52	6.53	0.72	7.25	11.00	Pass
		106	3.31	0.72	4.03	11.00	Pass
		242	0.02	0.72	0.75	11.00	Pass
	CH134	26	5.94	0.72	6.67	11.00	Pass
		52	5.51	0.72	6.23	11.00	Pass
		106	2.45	0.72	3.18	11.00	Pass
		242	-1.13	0.72	-0.41	11.00	Pass
11ax(HE80)	CH106	26	5.96	1.30	7.26	11.00	Pass
		52	5.93	1.30	7.23	11.00	Pass
		106	2.48	1.30	3.78	11.00	Pass
		242	-0.62	1.30	0.69	11.00	Pass
		484	-3.16	1.30	-1.85	11.00	Pass
	CH122	26	6.29	1.30	7.59	11.00	Pass
		52	5.63	1.30	6.93	11.00	Pass
		106	2.28	1.30	3.58	11.00	Pass
		242	-0.89	1.30	0.41	11.00	Pass
		484	-3.13	1.30	-1.83	11.00	Pass

U-NII-3 (5725 - 5850 MHz)						
Mode	Channel	Measured PSD (dBm/500kHz)	Duty Factor	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	-3.71	0.28	-3.43	30.00	Pass
11a	CH157	-4.38	0.28	-4.09	30.00	Pass
11a	CH165	-4.71	0.28	-4.43	30.00	Pass
11n(HT20)	CH149	-4.04	0.04	-4.01	30.00	Pass
11n(HT20)	CH157	-4.66	0.04	-4.62	30.00	Pass
11n(HT20)	CH165	-4.61	0.04	-4.58	30.00	Pass
11n(HT40)	CH151	-7.65	0.10	-7.54	30.00	Pass
11n(HT40)	CH159	-7.68	0.10	-7.58	30.00	Pass
11ac(VHT20)	CH149	-4.19	0.04	-4.16	30.00	Pass
11ac(VHT20)	CH157	-4.73	0.04	-4.70	30.00	Pass
11ac(VHT20)	CH165	-4.64	0.04	-4.61	30.00	Pass
11ac(VHT40)	CH151	-7.76	0.10	-7.66	30.00	Pass
11ac(VHT40)	CH159	-7.84	0.10	-7.74	30.00	Pass
11ac(VHT80)	CH155	-10.17	0.70	-9.47	30.00	Pass
11ax(HE20)(SU)	CH149	-3.83	0.39	-3.43	30.00	Pass
11ax(HE20)(SU)	CH157	-4.48	0.39	-4.09	30.00	Pass
11ax(HE20)(SU)	CH165	-4.85	0.39	-4.46	30.00	Pass
11ax(HE40)(SU)	CH151	-8.80	0.72	-8.08	30.00	Pass
11ax(HE40)(SU)	CH159	-9.18	0.72	-8.46	30.00	Pass
11ax(HE80)(SU)	CH155	-11.06	1.30	-9.76	30.00	Pass

U-NII-3 (5725 - 5850 MHz)							
Mode	Channel	RU Config	Measured PSD (dBm/500k Hz)	Duty Factor	PSD (dBm/500k Hz)	FCC Limit (dBm/500k Hz)	Verdict
11ax(HE20)	CH52	26	2.74	0.39	3.13	30.00	Pass
		52	-0.22	0.39	0.18	30.00	Pass
		106	-3.22	0.39	-2.83	30.00	Pass
	CH60	26	3.06	0.39	3.45	30.00	Pass
		52	0.40	0.39	0.79	30.00	Pass
		106	-2.70	0.39	-2.30	30.00	Pass
	CH64	26	3.27	0.39	3.66	30.00	Pass
		52	0.48	0.39	0.87	30.00	Pass
		106	-2.66	0.39	-2.26	30.00	Pass
11ax(HE40)	CH54	26	3.76	0.72	4.48	30.00	Pass
		52	0.83	0.72	1.55	30.00	Pass
		106	-3.32	0.72	-2.60	30.00	Pass
		242	-6.28	0.72	-5.55	30.00	Pass
	CH62	26	3.22	0.72	3.94	30.00	Pass
		52	0.14	0.72	0.86	30.00	Pass
		106	-2.80	0.72	-2.08	30.00	Pass
		242	-5.71	0.72	-4.99	30.00	Pass
11ax(HE80)	CH58	26	2.83	1.30	4.13	30.00	Pass
		52	-0.36	1.30	0.94	30.00	Pass
		106	-3.39	1.30	-2.09	30.00	Pass
		242	-6.56	1.30	-5.26	30.00	Pass
		484	-8.57	1.30	-7.27	30.00	Pass

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U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	3.14	10.72	Pass
11a	CH44	3.01	10.72	Pass
11a	CH48	2.83	10.72	Pass
11n(HT20)	CH36	2.57	11.00	Pass
11n(HT20)	CH44	2.97	11.00	Pass
11n(HT20)	CH48	3.27	11.00	Pass
11n(HT40)	CH38	-0.16	11.00	Pass
11n(HT40)	CH46	0.00	11.00	Pass
11ac(VHT20)	CH36	2.61	11.00	Pass
11ac(VHT20)	CH44	2.45	11.00	Pass
11ac(VHT20)	CH48	3.30	11.00	Pass
11ac(VHT40)	CH38	-0.12	11.00	Pass
11ac(VHT40)	CH46	-0.05	11.00	Pass
11ac(VHT80)	CH42	-2.81	11.00	Pass
11ax(HE20)(SU)	CH36	3.03	11.00	Pass
11ax(HE20)(SU)	CH44	3.42	11.00	Pass
11ax(HE20)(SU)	CH48	3.19	11.00	Pass
11ax(HE40)(SU)	CH38	-0.48	11.00	Pass
11ax(HE40)(SU)	CH46	-0.70	11.00	Pass
11ax(HE80)(SU)	CH42	-3.14	11.00	Pass

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	RU Config	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11ax(HE20)	CH36	26	5.52	11.00	Pass
		52	5.46	11.00	Pass
		106	5.09	11.00	Pass
	CH44	26	5.54	11.00	Pass
		52	5.13	11.00	Pass
		106	4.97	11.00	Pass
	CH48	26	5.47	11.00	Pass
		52	5.32	11.00	Pass
		106	4.94	11.00	Pass
11ax(HE40)	CH38	26	5.51	11.00	Pass
		52	5.38	11.00	Pass
		106	5.23	11.00	Pass
		242	2.21	11.00	Pass
	CH46	26	5.75	11.00	Pass
		52	5.82	11.00	Pass
		106	5.26	11.00	Pass
		242	1.90	11.00	Pass
11ax(HE80)	CH42	26	6.15	11.00	Pass
		52	5.98	11.00	Pass
		106	5.71	11.00	Pass
		242	2.71	11.00	Pass
		484	-0.08	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH52	3.30	10.23	Pass
11a	CH60	3.56	10.23	Pass
11a	CH64	3.76	10.23	Pass
11n(HT20)	CH52	3.28	11.00	Pass
11n(HT20)	CH60	3.19	11.00	Pass
11n(HT20)	CH64	3.14	11.00	Pass
11n(HT40)	CH54	-0.49	11.00	Pass
11n(HT40)	CH62	0.71	11.00	Pass
11ac(VHT20)	CH52	3.50	11.00	Pass
11ac(VHT20)	CH60	3.49	11.00	Pass
11ac(VHT20)	CH64	3.33	11.00	Pass
11ac(VHT40)	CH54	-0.65	11.00	Pass
11ac(VHT40)	CH62	0.49	11.00	Pass
11ac(VHT80)	CH58	-5.32	11.00	Pass
11ax(HE20)(SU)	CH52	3.72	11.00	Pass
11ax(HE20)(SU)	CH60	3.59	11.00	Pass
11ax(HE20)(SU)	CH64	3.48	11.00	Pass
11ax(HE40)(SU)	CH54	-1.13	11.00	Pass
11ax(HE40)(SU)	CH62	-1.06	11.00	Pass
11ax(HE80)(SU)	CH58	-4.94	11.00	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	RU Config	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11ax(HE20)	CH52	26	10.42	11.00	Pass
		52	7.67	11.00	Pass
		106	4.67	11.00	Pass
	CH60	26	10.14	11.00	Pass
		52	7.49	11.00	Pass
		106	4.51	11.00	Pass
	CH64	26	10.64	11.00	Pass
		52	7.78	11.00	Pass
		106	4.63	11.00	Pass
11ax(HE40)	CH54	26	10.51	11.00	Pass
		52	7.79	11.00	Pass
		106	4.90	11.00	Pass
		242	1.72	11.00	Pass
	CH62	26	10.69	11.00	Pass
		52	8.02	11.00	Pass
		106	5.09	11.00	Pass
		242	1.96	11.00	Pass
11ax(HE80)	CH58	26	8.90	11.00	Pass
		52	8.55	11.00	Pass
		106	5.41	11.00	Pass
		242	2.31	11.00	Pass
		484	-0.35	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH100	4.00	8.63	Pass
11a	CH116	4.03	8.63	Pass
11a	CH140	3.86	8.63	Pass
11n(HT20)	CH100	3.59	11.00	Pass
11n(HT20)	CH116	4.00	11.00	Pass
11n(HT20)	CH140	3.40	11.00	Pass
11n(HT40)	CH102	0.83	11.00	Pass
11n(HT40)	CH118	0.49	11.00	Pass
11n(HT40)	CH134	0.88	11.00	Pass
11ac(VHT20)	CH100	4.04	11.00	Pass
11ac(VHT20)	CH116	3.96	11.00	Pass
11ac(VHT20)	CH140	3.94	11.00	Pass
11ac(VHT40)	CH102	0.95	11.00	Pass
11ac(VHT40)	CH118	0.48	11.00	Pass
11ac(VHT40)	CH134	0.94	11.00	Pass
11ac(VHT80)	CH106	-2.81	11.00	Pass
11ac(VHT80)	CH122	-1.21	11.00	Pass
11ax(HE20)(SU)	CH100	4.15	11.00	Pass
11ax(HE20)(SU)	CH116	3.90	11.00	Pass
11ax(HE20)(SU)	CH140	3.91	11.00	Pass
11ax(HE40)(SU)	CH102	-0.78	11.00	Pass
11ax(HE40)(SU)	CH118	-0.16	11.00	Pass
11ax(HE40)(SU)	CH134	0.24	11.00	Pass
11ax(HE80)(SU)	CH106	-4.64	11.00	Pass
11ax(HE80)(SU)	CH122	-1.75	11.00	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	RU Config	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11ax(HE20)	CH100	26	10.05	11.00	Pass
		52	9.08	11.00	Pass
		106	5.89	11.00	Pass
	CH116	26	10.82	11.00	Pass
		52	8.92	11.00	Pass
		106	5.84	11.00	Pass
	CH140	26	8.25	11.00	Pass
		52	8.51	11.00	Pass
		106	5.96	11.00	Pass
11ax(HE40)	CH102	26	10.27	11.00	Pass
		52	9.66	11.00	Pass
		106	6.72	11.00	Pass
		242	3.41	11.00	Pass
	CH118	26	10.88	11.00	Pass
		52	10.14	11.00	Pass
		106	6.61	11.00	Pass
		242	3.77	11.00	Pass
	CH134	26	9.80	11.00	Pass
		52	9.50	11.00	Pass
		106	6.35	11.00	Pass
		242	2.85	11.00	Pass
11ax(HE80)	CH106	26	10.00	11.00	Pass
		52	10.27	11.00	Pass
		106	7.16	11.00	Pass
		242	4.05	11.00	Pass
		484	1.29	11.00	Pass
	CH122	26	10.44	11.00	Pass
		52	9.87	11.00	Pass
		106	6.66	11.00	Pass
		242	3.38	11.00	Pass
		484	0.88	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	-0.96	27.63	Pass
11a	CH157	-1.48	27.63	Pass
11a	CH165	-1.06	27.63	Pass
11n(HT20)	CH149	-1.36	30.00	Pass
11n(HT20)	CH157	-1.91	30.00	Pass
11n(HT20)	CH165	-1.55	30.00	Pass
11n(HT40)	CH151	-4.22	30.00	Pass
11n(HT40)	CH159	-4.28	30.00	Pass
11ac(VHT20)	CH149	-1.53	30.00	Pass
11ac(VHT20)	CH157	-1.94	30.00	Pass
11ac(VHT20)	CH165	-1.41	30.00	Pass
11ac(VHT40)	CH151	-4.22	30.00	Pass
11ac(VHT40)	CH159	-4.29	30.00	Pass
11ac(VHT80)	CH155	-6.66	30.00	Pass
11ax(HE20)(SU)	CH149	-0.90	30.00	Pass
11ax(HE20)(SU)	CH157	-0.83	30.00	Pass
11ax(HE20)(SU)	CH165	-1.25	30.00	Pass
11ax(HE40)(SU)	CH151	-5.39	30.00	Pass
11ax(HE40)(SU)	CH159	-5.04	30.00	Pass
11ax(HE80)(SU)	CH155	-6.91	30.00	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	RU Config	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11ax(HE20)	CH52	26	6.13	30.00	Pass
		52	3.45	30.00	Pass
		106	0.44	30.00	Pass
	CH60	26	6.15	30.00	Pass
		52	3.51	30.00	Pass
		106	0.47	30.00	Pass
	CH64	26	6.23	30.00	Pass
		52	3.45	30.00	Pass
		106	0.23	30.00	Pass
11ax(HE40)	CH54	26	7.20	30.00	Pass
		52	4.03	30.00	Pass
		106	0.48	30.00	Pass
		242	-2.63	30.00	Pass
	CH62	26	7.00	30.00	Pass
		52	4.09	30.00	Pass
		106	1.11	30.00	Pass
		242	-1.92	30.00	Pass
11ax(HE80)	CH58	26	7.30	30.00	Pass
		52	4.31	30.00	Pass
		106	1.13	30.00	Pass
		242	-2.08	30.00	Pass
		484	-4.61	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.

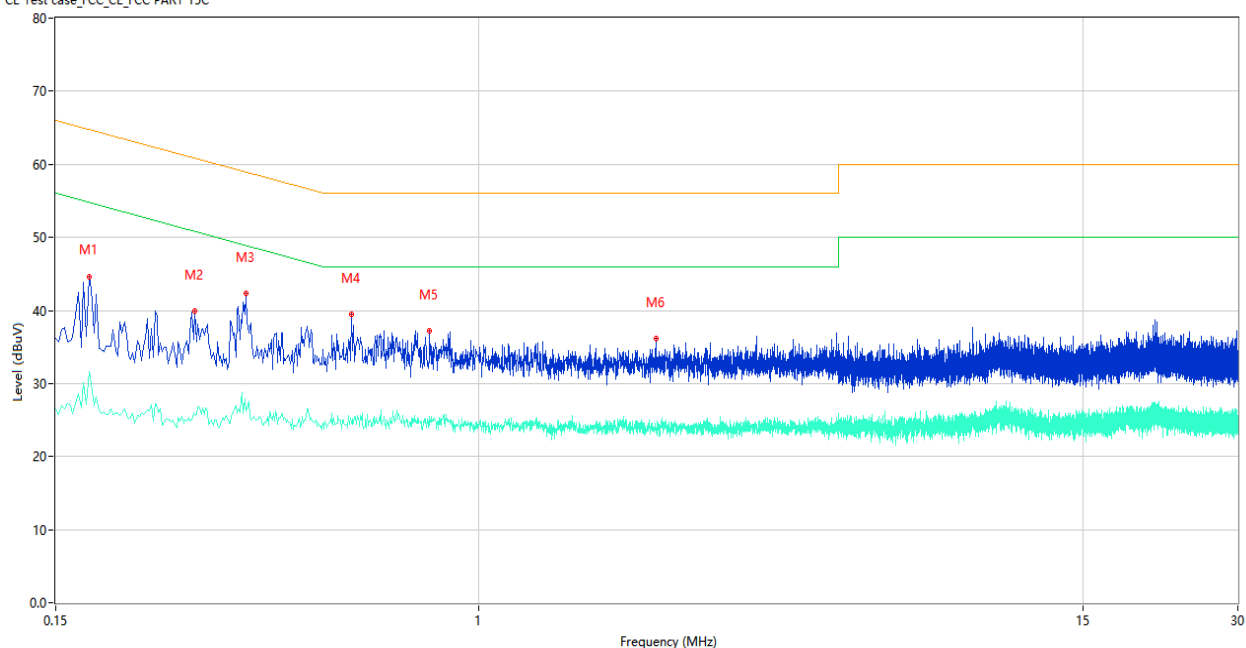
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

Note³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

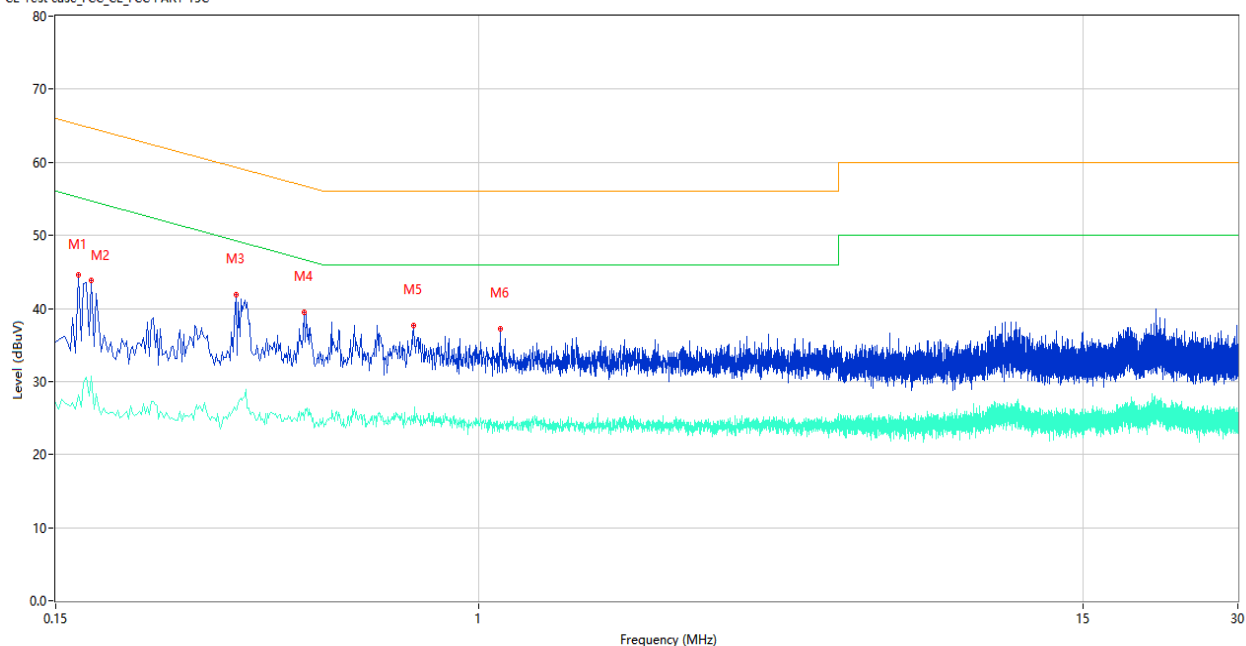
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.174	44.53	9.76	64.77	20.24	Peak	L	Pass
1**	0.174	31.69	9.76	54.77	23.08	AV	L	Pass
2	0.280	39.95	9.74	60.82	20.87	Peak	L	Pass
2**	0.280	25.63	9.74	50.82	25.19	AV	L	Pass
3	0.352	42.38	10.73	58.92	16.54	Peak	L	Pass
3**	0.352	26.16	10.73	48.92	22.76	AV	L	Pass
4	0.564	39.48	10.05	56.00	16.52	Peak	L	Pass
4**	0.564	24.60	10.05	46.00	21.40	AV	L	Pass
5	0.802	37.14	10.52	56.00	18.86	Peak	L	Pass
5**	0.802	25.39	10.52	46.00	20.61	AV	L	Pass
6	2.208	36.17	10.01	56.00	19.83	Peak	L	Pass
6**	2.208	23.43	10.01	46.00	22.57	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.166	44.53	9.76	65.16	20.63	Peak	N	Pass
1**	0.166	28.11	9.76	55.16	27.05	AV	N	Pass
2	0.176	43.81	9.76	64.67	20.86	Peak	N	Pass
2**	0.176	30.74	9.76	54.67	23.93	AV	N	Pass
3	0.336	41.82	10.46	59.30	17.48	Peak	N	Pass
3**	0.336	26.06	10.46	49.30	23.24	AV	N	Pass
4	0.456	39.47	10.00	56.77	17.30	Peak	N	Pass
4**	0.456	24.75	10.00	46.77	22.02	AV	N	Pass
5	0.746	37.63	10.18	56.00	18.37	Peak	N	Pass
5**	0.746	24.26	10.18	46.00	21.74	AV	N	Pass
6	1.100	37.25	9.98	56.00	18.75	Peak	N	Pass
6**	1.100	24.40	9.98	46.00	21.60	AV	N	Pass

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

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

Note ²: For the test data above 1 GHz, According the ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

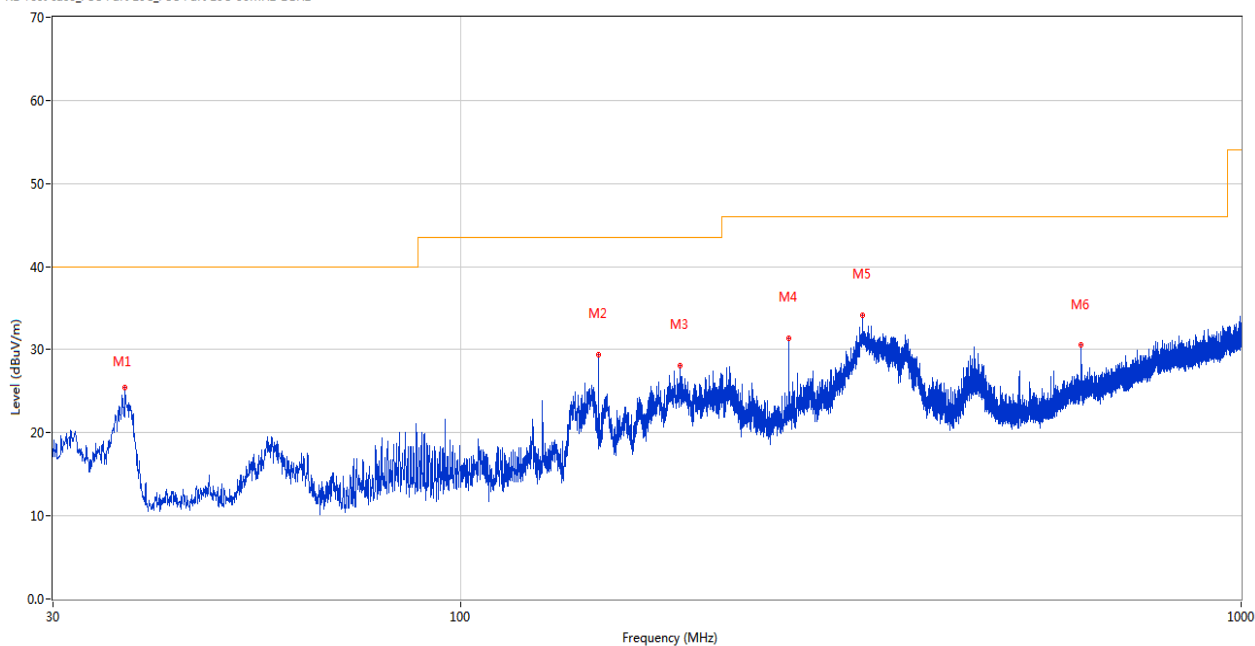
Note ⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

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

Test Data and Plots

30 MHz to 1 GHz, ANT H

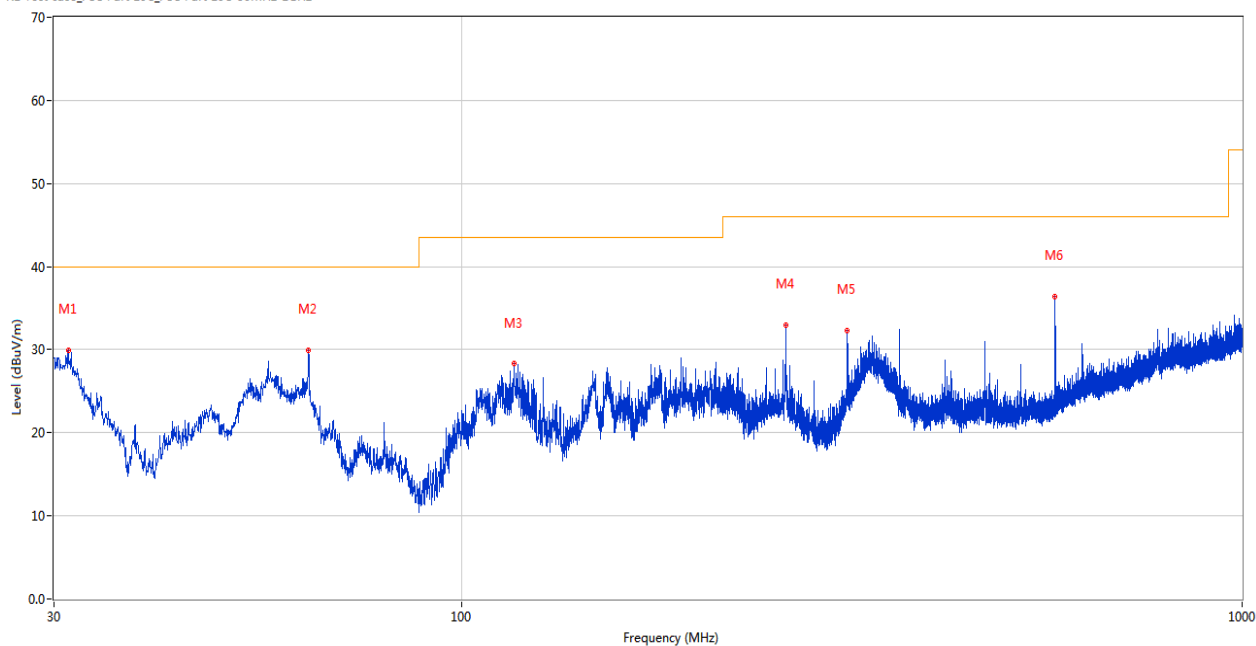
RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	37.081	25.48	-25.97	40.0	14.52	Peak	174.00	100	Horizontal	Pass
2	149.989	29.45	-23.61	43.5	14.05	Peak	186.00	200	Horizontal	Pass
3	190.729	28.05	-26.44	43.5	15.45	Peak	71.00	200	Horizontal	Pass
4	263.091	31.43	-23.79	46.0	14.57	Peak	14.00	100	Horizontal	Pass
5	327.257	34.11	-21.24	46.0	11.89	Peak	138.00	100	Horizontal	Pass
6	623.980	30.53	-12.65	46.0	15.47	Peak	174.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	31.309	29.95	-26.80	40.0	10.05	Peak	109.00	100	Vertical	Pass
2	63.611	29.94	-26.11	40.0	10.06	Peak	273.00	100	Vertical	Pass
3	116.573	28.28	-26.98	43.5	15.22	Peak	273.00	100	Vertical	Pass
4	259.939	32.92	-23.99	46.0	13.08	Peak	165.00	200	Vertical	Pass
5	312.027	32.28	-21.76	46.0	13.72	Peak	174.00	100	Vertical	Pass
6	576.013	36.34	-14.28	46.0	9.66	Peak	92.00	100	Vertical	Pass