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检测
TESTING
CNAS L6791

TEST REPORT

Applicant: Ugreen Group Limited
Address: Ugreen Building, Longcheng Industrial Park,
Longguanxi Road, Longhua, ShenZhen, China
Equipment Type: AC1300 USB Dual Band Wi-Fi Adapter
Model Name: CM492 (refer to section 2.4)
Brand Name: **UGREEN**
Test Standard: MIC Notice No.88 Appendix No.45
Ordinance of MPT No.37, 1981:
Article 2 paragraph 1 item (19)-3
Sample Arrival Date: Mar. 03, 2025
Test Date: Mar. 08, 2025 - Mar. 19, 2025
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.



Tested by: Julie Zhu

Checked by: Ye Hongji

Approved by: Sunny Zou
(Technical Director)

Julie Zhu

Ye Hongji

Sunny Zou

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 16, 2025</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1. GENERAL INFORMATION.....	4
1.1 Test Laboratory	4
1.2 Test Location	4
2. PRODUCT INFORMATION	5
2.1 Applicant Information	5
2.2 Manufacturer Information.....	5
2.3 Factory Information.....	5
2.4 General Description for Equipment under Test (EUT).....	5
2.5 Technical Information	6
2.6 Channel List	7
3. SUMMARY OF TEST RESULTS	8
3.1 MEASUREMENT UNCERTAINTY.....	9
4. GENERAL TEST CONFIGURATIONS	10
4.1 Test Environment Conditions.....	10
4.2 Test Equipment List.....	11
4.3 Description of Test Setup	12
5. TEST ITEMS	15
5.1 Frequency Error Measurement	15
5.2 Occupied Bandwidth.....	17
5.3 Unwanted Emission Intensity Measurement	20
5.4 Antenna Power Error and E.I.R.P Measurement.....	25
5.5 Adjacent channel leakage power and out-band leakage power	58
5.6 Limit of secondary radiated emissions	62
5.7 Interference prevention function	65
5.8 Transmission burst length.....	67

5.9	Carrier sensing function.....	69
5.10	Dynamic frequency selection (DFS).....	72
5.11	Construction Protection Confirmation Method.....	75
ANNEX A	TEST SETUP PHOTOS	76
1	Conducted Test Photo	76
ANNEX B	EUT EXTERNAL PHOTOS.....	77
ANNEX C	EUT INTERNAL PHOTOS.....	81

1. GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China

2. PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Ugreen Group Limited
Address	Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

2.2 Manufacturer Information

Manufacturer	Ugreen Group Limited
Address	Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

2.3 Factory Information

Factory	Dingnan county Fulong Technology Co., Ltd.
Address	Yingtang industry park, Qinghua Blvd Liangfu industry district, Lishi town, Dingnan, GanZhou, JiangXi province

2.4 General Description for Equipment under Test (EUT)

EUT Name	AC1300 USB Dual Band Wi-Fi Adapter
Model Name Under Test	CM492
Series Model Name	50340
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

Remark:

- Product Number (P/N) code in the below table, for marketing purpose, will be marked on the marking plate.

50340	50340EU	50340UK	50340US	50340JP	50340CN	50340KC
50340A	50340B	50340C	50340P	50340X	50340U	KC-50340

2.5 Technical Information

Network and Wireless connectivity	WIFI 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	Band I: 5150 MHz to 5250 MHz Band II: 5250 MHz to 5350 MHz		
Modulation technology	OFDM		
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK		
Product Type	Portable		
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36 / 24 / 18 / 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9		
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz		
Declare Max rated power density	Mode	Band I (5150 - 5250 MHz) (mW/MHz)	Band II (5250 - 5350 MHz) (mW/MHz)
	802.11a	2.50	2.00
	802.11n 20	2.00	2.00
	802.11n 40	1.00	1.00
	802.11ac 20	2.00	2.00
	802.11ac 40	1.00	1.00
	802.11ac 80	0.50	0.50
Antenna Type	SISO-Antenna 0 SISO-Antenna 1	Shrapnel Antenna	
Antenna Gain	SISO-Antenna 0 SISO-Antenna 1	2.6 dBi (In test items related to antenna gain, the final results reflect this figure. This value is provided by the applicant.)	

Mode	Antenna		
	SISO-Antenna 0	SISO-Antenna 1	MIMO
802.11a	√	√	√
802.11n20	√	√	√
802.11n40	√	√	√
802.11ac20	√	√	√
802.11ac40	√	√	√
802.11ac80	√	√	√

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

2.6 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	58	5290
44	5220	54	5270		
48	5240	62	5310		
52	5260				
56	5280				
60	5300				
64	5320				

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)

Band I (5150 - 5250 MHz)			Band II (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

For 802.11n(HT40)/ac(VHT40)

Band I (5150 - 5250 MHz)			Band II (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

For 802.11ac(VHT80)

Band I (5150 - 5250 MHz)			Band II (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Low	5210	58	Low	5290

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.

3. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Part	Test Items	Mode	Data Rate	Modulation Technology	Band I Channel	Band II Channel	Verdict
5.1	Frequency Error	11a	6	OFDM	48/44/36	64/60/52	Pass
		11n(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11n(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11ac(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(80 MHz)	29.3	OFDM	42	58	
5.2	Occupied Bandwidth	11a	6	OFDM	48/44/36	64/60/52	Pass
		11n(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11n(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11ac(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(80 MHz)	29.3	OFDM	42	58	
5.3	Unwanted Emission Intensity	11a	6	OFDM	48/44/36	64/60/52	Pass
		11n(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11n(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11ac(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(80 MHz)	29.3	OFDM	42	58	
5.4	Antenna Power Error and E.I.R.P	11a	6	OFDM	48/44/36	64/60/52	Pass
		11n(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11n(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11ac(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(80 MHz)	29.3	OFDM	42	58	
5.5	Adjacent channel leakage power and out-band leakage power	11a	6	OFDM	48/44/36	64/60/52	Pass
		11n(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11n(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11ac(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(80 MHz)	29.3	OFDM	42	58	
5.6	Limit of secondary radiated emissions	11a	6	OFDM	48/44/36	64/60/52	Pass
		11n(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11n(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11ac(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(80 MHz)	29.3	OFDM	42	58	
5.7	Interference prevention	11a	6	OFDM	48/44/36	64/60/52	Pass

	function	11n(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11n(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11ac(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(80 MHz)	29.3	OFDM	42	58	
5.8	Transmission burst length	11a	6	OFDM	48/44/36	64/60/52	Pass
		11n(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11n(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11ac(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(80 MHz)	29.3	OFDM	42	58	
5.9	Carrier sensing function	11a	6	OFDM	48/44/36	64/60/52	Pass
		11n(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11n(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(20 MHz)	6.5	OFDM	48/44/36	64/60/52	
		11ac(40 MHz)	13.5	OFDM	46/38	62/54	
		11ac(80 MHz)	29.3	OFDM	42	58	
5.10	Dynamic frequency selection (DFS)	--	--	--	--	--	N/A ^{Note 2}
5.11	Construction Protection Confirmation Method	--	--	--	--	--	Pass
Note 1: The tests were performed according to the method of measurements prescribed in MIC Ordinance Regulating Radio Equipment Section 4.17 of Article 49.20.							
Note 2: The EUT is a slave device, the DFS test is not applicable.							

3.1 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
Frequency Error / 99% & 26dB Bandwidth	$(3.2 \times f \times 10^{-6})$ Hz
Antenna Power	1.82 dB
TX-RX Spurious Emissions	1.84 dB
Transmission Antenna Gain	5.36 dB
Temperature	0.8°C
Humidity	4%
DC / AC Power Source	0.04%
Note: “ f ” is the nominal signal frequency in Hz.	

4. GENERAL TEST CONFIGURATIONS

4.1 Test Environment Conditions

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

Relative Humidity (%)	50% to 62%	
Atmospheric Pressure (kPa)	100 kPa to 102 kPa	
Temperature	+20.8°C to +24.3°C	
Working Voltage of the EUT	NV (Normal Voltage)	5.0 V
	LV (Low Voltage)	4.5 V
	HV (High Voltage)	5.5 V

Note: When the input voltage deviation from the external power supply is $\pm 10\%$, and the voltage deviation provided to the radio part of the EUT (excluding the power circuit) is kept within $\pm 1\%$, only the normal voltage is used for testing.

Voltage fluctuation results:

External power supply	Rated operating voltage of EUT	Actual measured voltage of EUT	$\pm 1\%$ voltage operating range
4.500 V	3.300 V	3.290 V	3.267 V~3.333 V
5.000 V	3.300 V	3.294 V	3.267 V~3.333 V
5.500 V	3.300 V	3.293 V	3.267 V~3.333 V

4.2 Test Equipment List

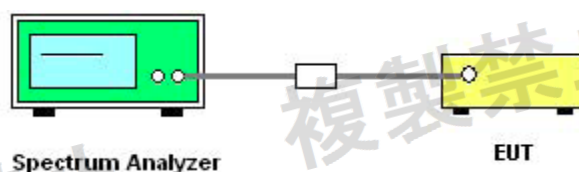
Description	Manufacturer	Model	Serial No.	Calibration Company	Calibration Address	Calibration By	Cal. Date	Cal. Due	Calibration Method
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	Ti Testing & Certification Group Co., Ltd. Shenzhen Branch	103, Building B, Ganghongji High tech Intelligent Industrial Park, No. 1008 Songbai Road, Nanshan District, Shenzhen	He Weidong	2024.05.08	2025.05.07	c)
Power Sensor	KEYSIGHT	U2063XA	MY58000247	Ti Testing & Certification Group Co., Ltd. Shenzhen Branch	103, Building B, Ganghongji High tech Intelligent Industrial Park, No. 1008 Songbai Road, Nanshan District, Shenzhen	Zhang Suting	2024.07.04	2025.07.03	c)
Multimeter	Fluke	289	44860089	Ti Testing & Certification Group Co., Ltd. Shenzhen Branch	103, Building B, Ganghongji High tech Intelligent Industrial Park, No. 1008 Songbai Road, Nanshan District, Shenzhen	Huang Guoliang	2024.08.07	2025.08.06	c)
DC Power Supply	ITECH	IT6720	600103010687610007	Ti Testing & Certification Group Co., Ltd. Shenzhen Branch	103, Building B, Ganghongji High tech Intelligent Industrial Park, No. 1008 Songbai Road, Nanshan District, Shenzhen	Zhang Suting	2024.07.04	2025.07.03	c)

Note:

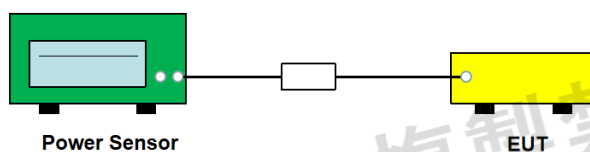
- a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
- b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- c) Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
- d) Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

4.3 Description of Test Setup

4.3.1 For Antenna Port Test

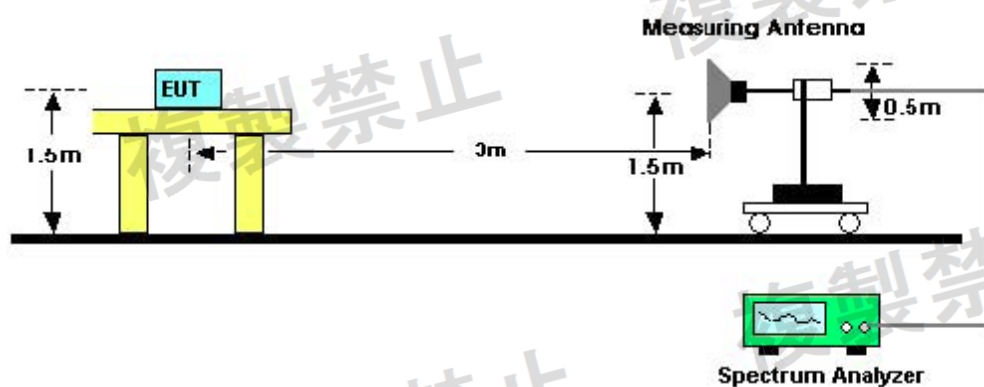


(Diagram 1)

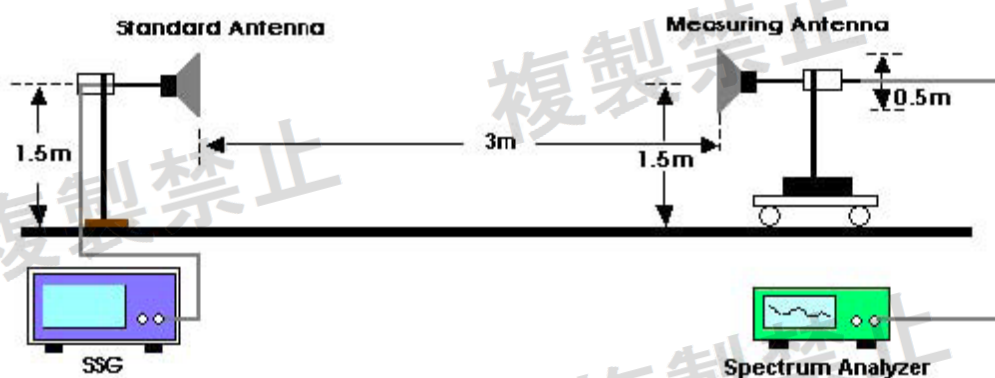


(Diagram 2)

4.3.2 For EIRP Antenna Power Test

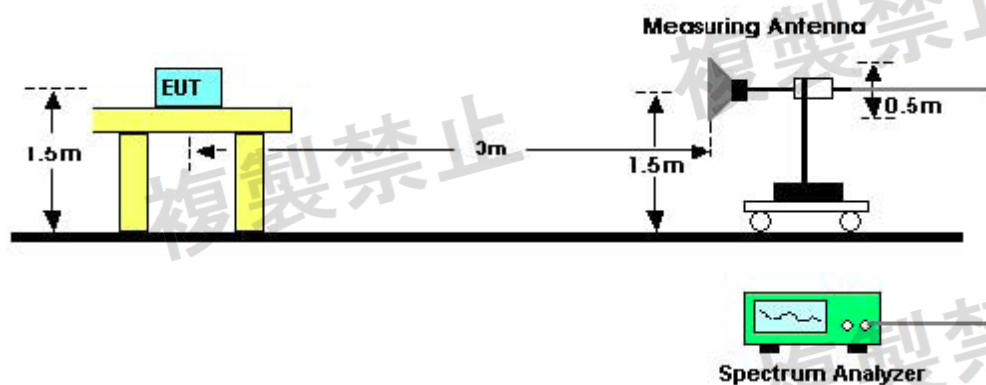


(Diagram 3)



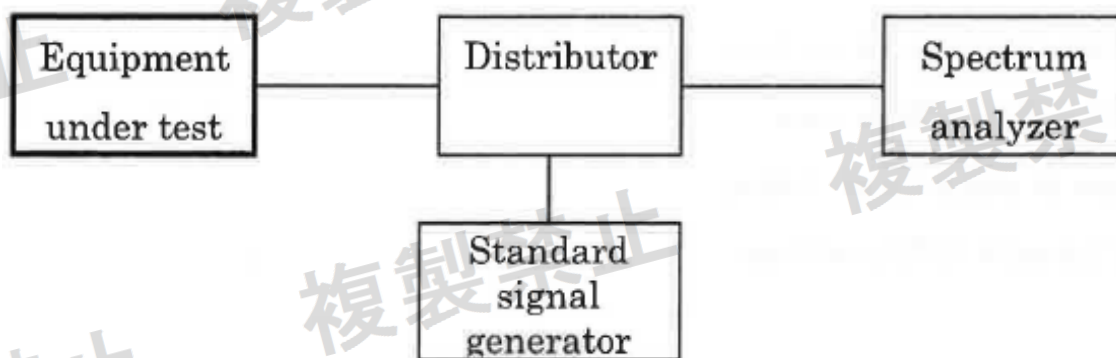
(Diagram 4)

4.3.3 For 3dB Beamwidth Test



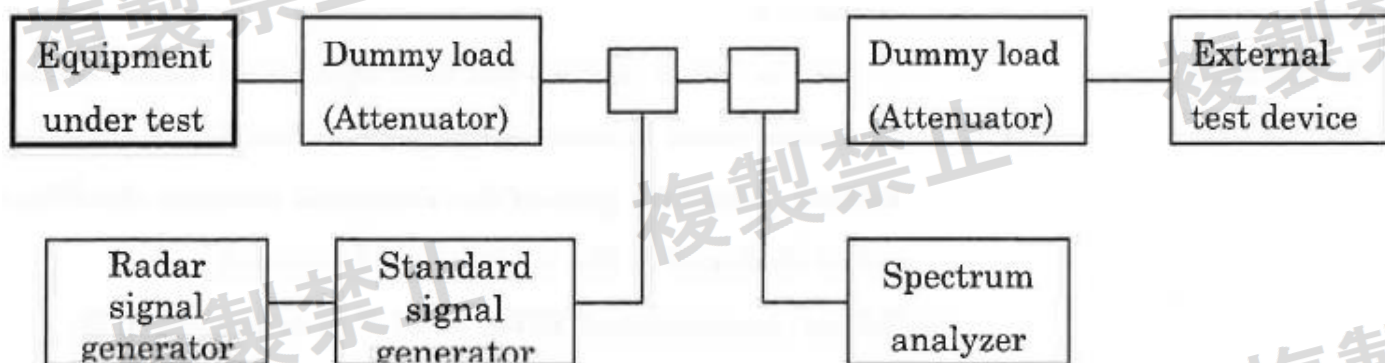
(Diagram 5)

4.3.4 For Carrier sensing Test



(Diagram 6)

4.3.5 For Dynamic frequency selection (DFS) Test



(Diagram 7)

5. TEST ITEMS

5.1 Frequency Error Measurement

5.1.1 Limit

Item	Limits
Frequency Tolerance	$\leq \pm 20$ ppm

5.1.2 Test Setup

See section 4.3.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.1.3 Test Procedure

- (1) The frequency meter shall be a frequency counter or a spectrum analyzer that has a synthesized local oscillator.
- (2) Measuring accuracy of the frequency meter shall be ten times higher than the specified tolerance or better.
- (3) To avoid influence caused by amplitude fluctuation of signals under measurement, the attenuator shall be adjusted to give the optimum input level to the frequency meter.
- (4) When measuring burst waves, use a pulse measuring function of the counter and set the gate open time to enable measurement through entire period of the burst.

Measuring procedures:

- (1) For unmodulated wave (continuous wave or continuing burst wave), measure the frequency using a frequency meter.
- (2) For burst wave, continue the measurement through enough long period (20 or more of burst waves for example) to secure the accurate value and obtain the mean value to be used as the measured value.
- (3) For the test mode to generate peculiar spectrum, measure frequency of the spectrum using a spectrum analyzer.
- (4) If above measuring method does not measure the frequency corresponding to the test frequency in principle, obtain the frequency by reasonable calculation.
- (5) When EUT has plural antenna terminals, measure the frequency at each terminal.

5.1.4 Test Deviation

There is no deviation with the original standard.

5.1.5 EUT Operation during Test

The EUT was placed on the test table and programmed in un-modulation function.

5.1.6 Test Result

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2530093-603 Data Part 1.pdf”.

Note 2: All antenna were pre tested, but only the worst case has been reported in this report.

SISO-Antenna 0Test Data

Bandwidth	Band	Test Voltage	Channel	Frequency f_c (MHz)	Test Frequency f (MHz)	Frequency Error ppm	Limit (ppm)	Verdict
20 MHz	5.2 GHz Band	NV	Low	5180	5179.961000	-7.53	± 20	Pass
			Middle	5220	5219.962750	-7.14	± 20	Pass
			High	5240	5239.961775	-7.29	± 20	Pass
	5.3 GHz Band	NV	Low	5260	5259.965338	-6.59	± 20	Pass
			Middle	5300	5299.964038	-6.79	± 20	Pass
			High	5320	5319.963100	-6.94	± 20	Pass
40 MHz	5.2 GHz Band	NV	Low	5190	5189.963300	-7.07	± 20	Pass
			High	5230	5229.964500	-6.79	± 20	Pass
	5.3 GHz Band	NV	Low	5270	5269.963037	-7.01	± 20	Pass
			High	5310	5309.962600	-7.04	± 20	Pass
80 MHz	5.2 GHz Band	NV	Middle	5210	5209.964225	-6.87	± 20	Pass
	5.3 GHz Band	NV	Middle	5290	5289.962338	-7.12	± 20	Pass

5.2 Occupied Bandwidth

5.2.1 Limit

Test Mode	Limits						
	DSSS		OFDM				
	20 MHz	40 MHz	20 MHz	40 MHz	80 MHz	80MHz+80MHz (Not adjacent band)	160MHz
5.2 GHz Band	18.0 MHz	--	20.0 MHz	40.0 MHz	80.0 MHz	80.0 MHz	160.0 MHz
5.3 GHz Band	18.0 MHz	--	20.0 MHz	40.0 MHz	80.0 MHz	80.0 MHz	160.0 MHz
5.6 GHz Band	18.0 MHz	--	20.0 MHz	40.0 MHz	80.0 MHz	80.0 MHz	160.0 MHz

5.2.2 Test Setup

See section 4.3.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.2.3 Test Procedure

Set the spectrum analyzer as follows:

Center frequency: Test frequency (e.g. 5180 MHz);

Frequency sweep width: 2 to 3.5 times wider than the tolerance (e.g. 40 MHz);

Resolution bandwidth: 3% or less of the tolerance (e.g. 300 kHz);

Video bandwidth: Approximately same as the resolution bandwidth;

Y-axis scale: 10 dB / div;

Input level: Carrier level shall be enough higher than noise level of the spectrum analyzer;

Sweep time: Minimum time to ensure the measuring accuracy (In case of burst wave, one burst shall be included in one sample at least.);

Number of data points: 400 points or more (e.g. 1001 points);

Sweep mode: Continuous sweep;

Number of times for averaging: 10 times or more;

Detection mode: Sample (Positive peak for burst wave).

Values measured with a spectrum analyzer shall be processed using an external or a built-in computer.

5.2.4 Test Deviation

There is no deviation with the original standard.

5.2.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-hopping mode.

5.2.6 Test Result

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2530093-603 Data Part 2.pdf”.

Note 2: All antenna were pre tested, but only the worst case has been reported in this report.

SISO-Antenna 0

Test Data

Band	Mode	Test Voltage	Channel	Frequency (MHz)	99% Bandwidth (MHz)	99% Bandwidth Limit (MHz)	Verdict
5.2 GHz Band	a	NV	Low	5180	16.43	20	Pass
			Middle	5220	16.42	20	Pass
			High	5240	16.45	20	Pass
	n 20	NV	Low	5180	17.55	20	Pass
			Middle	5220	17.54	20	Pass
			High	5240	17.54	20	Pass
	n 40	NV	Low	5190	36.17	40	Pass
			High	5230	36.15	40	Pass
	ac 20	NV	Low	5180	17.55	20	Pass
			Middle	5220	17.55	20	Pass
			High	5240	17.55	20	Pass
	ac 40	NV	Low	5190	36.16	40	Pass
			High	5230	36.15	40	Pass
	ac 80	NV	Middle	5210	75.21	80	Pass

Band	Mode	Test Voltage	Channel	Frequency (MHz)	99% Bandwidth (MHz)	99% Bandwidth Limit (MHz)	Verdict
5.3 GHz Band	a	NV	Low	5260	16.44	20	Pass
			Middle	5300	16.43	20	Pass
			High	5320	16.43	20	Pass
	n 20	NV	Low	5260	17.54	20	Pass
			Middle	5300	17.54	20	Pass
			High	5320	17.54	20	Pass
	n 40	NV	Low	5270	36.17	40	Pass
			High	5310	36.17	40	Pass
	ac 20	NV	Low	5260	17.55	20	Pass
			Middle	5300	17.56	20	Pass
			High	5320	17.55	20	Pass
	ac 40	NV	Low	5270	36.15	40	Pass
			High	5310	36.15	40	Pass
	ac 80	NV	Middle	5290	75.23	80	Pass

5.3 Unwanted Emission Intensity Measurement

5.3.1 Limit

5.2 GHz Band			
20 MHz		40 MHz	80 MHz
OBW: 18 MHz or less	OBW: 18-20 MHz		
5142 MHz or less: 2.5 $\mu\text{W}/\text{MHz}$	5142 MHz or less: 2.5 $\mu\text{W}/\text{MHz}$	5141.6 MHz or less: 2.5 $\mu\text{W}/\text{MHz}$	5123.2 MHz or less: 2.5 $\mu\text{W}/\text{MHz}$
5142-5150 MHz: 15 $\mu\text{W}/\text{MHz}$	5142-5150 MHz: 15 $\mu\text{W}/\text{MHz}$	5141.6-5150 MHz: 15 $\mu\text{W}/\text{MHz}$	5123.2-5150 MHz: 15 $\mu\text{W}/\text{MHz}$
--	5250-5250.2 MHz: $10^{1-(8/3)(f-9.75)}$ mW/MHz	--	--
5250-5251 MHz: $10^{1-(f-9)}$ mW/MHz	5250.2-5251 MHz: $10^{1-(f-9)}$ mW/MHz	5250-5251 MHz: $10^{-(f-20)+\log(1/2)}$ mW/MHz	5150-5251 MHz: $10^{-(f-40)+\log(1/4)}$ mW/MHz
5251-5260 MHz: $10^{1-(8/90)(f-11)}$ mW/MHz	5251-5260 MHz: $10^{1-(8/90)(f-11)}$ mW/MHz	5251-5270 MHz: $10^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz	5251-5290 MHz: $10^{-(8/390)(f-41)-1+\log(1/4)}$ mW/MHz
5260-5266.7 MHz: $10^{1.8-(6/50)(f-20)}$ mW/MHz	5260-5266.7 MHz: $10^{1.8-(6/50)(f-20)}$ mW/MHz	5270-5278.4 MHz: $10^{-(3/50)(f-40)-1.8+\log(1/2)}$ mW/MHz	5290-5296.7 MHz: $10^{(3/100)(f-80)-1.8+\log(1/4)}$ mW/MHz
5266.7 MHz or more: 2.5 $\mu\text{W}/\text{MHz}$	5266.7 MHz or more: 2.5 $\mu\text{W}/\text{MHz}$	5278.4 MHz or more: 2.5 mW/MHz	5296.7 MHz or more: 2.5 mW/MHz
F=MHz, difference from 5240(MHz)	F=MHz, difference from 5240(MHz)	F=MHz, difference from 5230(MHz)	F=MHz, difference from 5210(MHz)

5.3 GHz Band			
20 MHz		40 MHz	80 MHz
OBW: 18 MHz or less	OBW: 18-20 MHz		
5233.3 MHz or less: 2.5 μ W/MHz	5233.3 MHz or less: 2.5 μ W/MHz	5221.6 MHz or less: 2.5 μ W/MHz	5203.3 MHz or less: 2.5 μ W/MHz
5233.3-5240 MHz: $10^{-1.8-(6/50)(f-20)}$ mW/MHz	5233.3-5240 MHz: $10^{-1.8-(6/50)(f-20)}$ mW/MHz	5221.6-5230 MHz: $10^{-(3/50)(f-40)-1.8+\log(1/2)}$ mW/MHz	5203.3-5210 MHz: $10^{-(3/100)(f-80)-1.8+\log(1/4)}$ mW/MHz
5240-5249 MHz: $10^{-1-(8/90)(f-11)}$ mW/MHz	5240-5249MHz: $10^{-1-(8/90)(f-11)}$ mW/MHz	5230-5249 MHz: $10^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz	5210-5249 MHz: $10^{-(8/390)(f-41)-1+\log(1/4)}$ mW/MHz
5249-5250 MHz: $10^{-1-(f-9)}$ mW/MHz	5249-5249.8MHz: $10^{-1-(f-9)}$ mW/MHz	5249-5250 MHz: $10^{-(f-20)+\log(1/2)}$ mW/MHz	5249-5250 MHz: $10^{-(f-40)+\log(1/4)}$ mW/MHz
5350 MHz or more: 2.5 μ W/MHz	5249.8-5250 MHz: $10^{-1-(8/3)(f-9.75)}$ mW/MHz	5350-5358.4 MHz: 15 μ W/MHz	5350-5376.8 MHz: 15 μ W/MHz
	5350 MHz or more: 2.5 μ W/MHz	5358.4 MHz or more: 2.5 μ W/MHz	5376.8 MHz or more: 2.5 μ W/MHz
F=MHz, difference from 5260(MHz)	F=MHz, difference from 5260(MHz)	F=MHz, difference from 5270(MHz)	F=MHz, difference from 5290(MHz)

5.6 GHz Band			
20 MHz		40 MHz	80 MHz
DSSS	OFDM		
5470 MHz or less: 12.5 μ W/MHz	5460 MHz or less: 2.5 μ W/MHz	5460 MHz or less: 12.5 μ W/MHz	5460 MHz or less: 12.5 μ W/MHz
	5460-5470 MHz: 12.5 μ W/MHz	5460-5470 MHz: 50 μ W/MHz	5460-5469.5 MHz: 50 μ W/MHz
5730 MHz or more: 12.5 μ W/MHz	5745-5765 MHz: 12.5 μ W/MHz	5770 MHz or more: 12.5 μ W/MHz	5469.5-5470 MHz: 51.2 μ W/MHz
	Over 5765 MHz: 2.5 μ W/MHz		5770 MHz or more: 12.5 μ W/MHz

5.3.2 Test Setup

See section 4.3.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.3.3 Test Procedure

1. Set the spectrum analyzer as follows to search for unwanted emissions:

Frequency sweep width: (See Note 1);

Resolution bandwidth: 1 MHz;

Video bandwidth: Approximately same as the resolution bandwidth;

Y-axis scale: 10 dB / div;

Input level: A level to obtain the maximum dynamic range;

Sweep time: Minimum time to ensure the measuring accuracy (See Note 2);

Number of data points: 400 points or more (e.g. 1001 points);

Sweep mode: Single sweep;

Detection mode: Positive peak.

2. Set the spectrum analyzer as follows to measure unwanted emission level:

Center frequency: Unwanted emission frequency (searched frequency);

Frequency sweep width: 0 Hz;

Resolution bandwidth: 1 MHz;

Video bandwidth: Approximately same as the resolution bandwidth;

Y-axis scale: 10 dB / div;

Input level: A level to obtain the maximum dynamic range;

Sweep time: Minimum time to ensure the measuring accuracy. However, for burst wave, the time shall be longer than duration of one burst.

Number of data points: 400 points or more (e.g. 1001 points);

Sweep mode: Single sweep;

Detection mode: Sample.

Note 1: Search for unwanted emissions from 30 MHz to 26 GHz excluding the following frequency range:

Band	Bandwidth ≥ 18 MHz	$18 \leq \text{bandwidth} \leq 19$ MHz	Bandwidth ≥ 19 MHz
5.2 GHz Band	5140 MHz to 5360 MHz	5135 MHz to 5365 MHz	5100 MHz to 5400 MHz
5.3 GHz Band	5140 MHz to 5360 MHz	5135 MHz to 5365 MHz	5100 MHz to 5400 MHz
5.6 GHz Band	5460 MHz to 5740 MHz	5455 MHz to 5745 MHz	5420 MHz to 5760 MHz

Note 2: In case of burst wave, sweep time can be set in accordance with the following formula to shorten the sweep time:

Sweep time (s) $\geq$ (frequency sweep width (MHz) / resolution bandwidth (MHz)) x burst repetition period (sec).

However detected signal level may be observed as lower than the actual level by 3 dB at the maximum and therefore careful measurement is required.

Measuring procedures

(1) Set the spectrum analyzer according to spectrum analyzer settings and search for unwanted emissions by sweeping. When amplitude level of the searched emission is within the tolerance ("tolerance - 3 dB" in case of Note 3 in analyzer settings), the amplitude level is used as the measured value and the measurement in spectrum analyzer settings is not necessary.

(2) When amplitude level of the searched emission exceeds the tolerance ("tolerance - 3 dB" in case of Note 3 in analyzer settings), narrow down the frequency sweep width sequentially from 100 MHz in order to raise frequency accuracy of the spectrum analyzer and measure frequency of the unwanted emission precisely.

Set the spectrum analyzer according to spectrum analyzer settings and obtain the mean value of amplitude levels of the unwanted emission. In case of burst wave, obtain the mean value within each burst.

(3) When EUT has plural antenna terminals, perform above measurement for each antenna terminal.

5.3.4 Test Deviation

There is no deviation with the original standard.

5.3.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.3.6 Test Result

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2530093-603 Data Part 3.pdf”.

Note 2: All antenna were pre tested, but only the worst case has been reported in this report.

Note3: The test results all include antenna gain.

SISO-Antenna 0

Test Data

Band	Mode	Test Voltage	Channel	Frequency (MHz)	Verdict
5.2 GHz Band	a	NV	Low	5180	Pass
			Middle	5220	Pass
			High	5240	Pass
	n 20	NV	Low	5180	Pass
			Middle	5220	Pass
			High	5240	Pass
	n 40	NV	Low	5190	Pass
			High	5230	Pass
	ac 20	NV	Low	5180	Pass
			Middle	5220	Pass
			High	5240	Pass
	ac 40	NV	Low	5190	Pass
			High	5230	Pass
	ac 80	NV	Middle	5210	Pass

Band	Mode	Test Voltage	Channel	Frequency (MHz)	Verdict
5.3 GHz Band	a	NV	Low	5260	Pass
			Middle	5300	Pass
			High	5320	Pass
	n 20	NV	Low	5260	Pass
			Middle	5300	Pass
			High	5320	Pass
	n 40	NV	Low	5270	Pass
			High	5310	Pass
	ac 20	NV	Low	5260	Pass
			Middle	5300	Pass
			High	5320	Pass
	ac 40	NV	Low	5270	Pass
			High	5310	Pass
	ac 80	NV	Middle	5290	Pass

5.4 Antenna Power Error and E.I.R.P Measurement

5.4.1 Limit

Test Mode	Limits (Antenna Power)						Antenna Power Tolerance
	DSSS	OFDM					
	20 MHz	20 MHz	40 MHz	80 MHz	80MHz+80MHz(Not adjacent band)	160MHz	
5.2 GHz Band	10 mW/MHz	10 mW/MHz	5 mW/MHz	2.5 mW/MHz	1.25 mW/MHz	1.25 mW/MHz	+20%~-80%
5.3 GHz Band	10 mW/MHz	10 mW/MHz	5 mW/MHz	2.5 mW/MHz	1.25 mW/MHz	1.25 mW/MHz	
5.6 GHz Band	10 mW/MHz	10 mW/MHz	5 mW/MHz	2.5 mW/MHz	1.25 mW/MHz	1.25 mW/MHz	+50%~-50%

Test Mode	Limits (E.I.R.P)					
	DSSS	OFDM				
	20 MHz	20 MHz	40 MHz	80 MHz	80MHz+80MHz(Not adjacent band)	160MHz
5.2 GHz Band	10 mW/MHz	10 mW/MHz	5 mW/MHz	2.5 mW/MHz	1.25 mW/MHz	1.25 mW/MHz
5.3 GHz Band	10 mW/MHz: with TPC 5 mW/MHz: without TPC	10 mW/MHz: with TPC 5 mW/MHz: without TPC	5 mW/MHz: with TPC 2.5 mW/MHz: without TPC	2.5 mW/MHz: with TPC 1.25 mW/MHz: without TPC	1.25 mW/MHz: with TPC 0.625 mW/MHz: without TPC	1.25 mW/MHz: with TPC 0.625 mW/MHz: without TPC
5.6 GHz Band	50 mW/MHz: with TPC 25 mW/MHz: without TPC	50 mW/MHz: with TPC 25 mW/MHz: without TPC	25 mW/MHz: with TPC 12.5 mW/MHz: without TPC	12.5 mW/MHz: with TPC 6.25 mW/MHz: without TPC	1.25 mW/MHz: with TPC 0.625 mW/MHz: without TPC	6.25 mW/MHz: with TPC 3.125 mW/MHz: without TPC

5.4.2 Test Setup

See section 4.3.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.4.3 Test Procedure

1. Measure equivalent noise bandwidth at 1 MHz resolution bandwidth of the spectrum analyzer and obtain a correction value used for correcting the resolution bandwidth into 1 MHz equivalent bandwidth. However, in case that the spreading bandwidth is 1 MHz or less, correction using the measured equivalent noise bandwidth is not required.

2. The attenuator shall be adjusted to supply an optimum input level to the spectrum analyzer.

3. Set the spectrum analyzer as follows to search for frequency giving the maximum antenna power:

Center frequency: Test frequency (e.g. 5180 MHz);

Frequency sweep width: Approximately twice the occupied bandwidth (e.g. 40 MHz);

Resolution bandwidth: 1MHz;

Video bandwidth: Approximately 3 times the resolution bandwidth (e.g. 3 MHz);

Y-axis scale: 10 dB / div;

Sweep time: Minimum time to ensure the measuring accuracy (In case of burst wave, one burst shall be included in one sample at least.);

Trigger condition: Free-run;

Number of data points: 400 points or more (e.g. 1001 points);

Sweep mode: Continuous sweep;

Detection mode: Positive peak;

Indication mode: Maximum hold.

4. Set the spectrum analyzer as follows to measure antenna power. Prior to the measurement, calibrate indication of the power meter for the indication at EUT output in the condition that the power meter is connected to IF output of the spectrum analyzer.

Center frequency: A frequency giving the maximum power (searched frequency);

Frequency sweep width: 0 Hz;

Resolution bandwidth: 1 MHz;

Sweep mode: Continuous sweep.

Measuring procedures (Antenna power)

a) For orthogonal frequency division multiplexing system or spread spectrum system using direct sequence spreading:

(1) Set the spectrum analyzer according to 3.

(2) After repeating sweeps until spectrum fluctuation is not observed, measure the frequency giving the maximum power per 1 MHz.

(3) Set the spectrum analyzer according to 4.

(4) Connect the power meter to IF output of the spectrum analyzer.

(5) Antenna power shall be obtained as follows.

(a) For continuous wave; Value obtained by correcting the indication value of the power meter according to above measurement.

(b) For burst wave; Mean power in burst that is calculated from the transmission time ratio and the value corrected in the same way as that for continuous wave:

Mean power in burst = corrected antenna power / transmission time ratio

where

Transmission time ratio = burst transmission time / burst repetition period

(6) When the EUT has plural modulation methods for sub-carriers in orthogonal frequency division multiplexing system, measure antenna power for each modulation method and use the maximum value as the measured value.

(7) When EUT has plural antenna terminals, conduct above measurement at each terminal.

b. For other systems

(1) Connect the power meter to the attenuator output and measure the total power (mW).

(2) Antenna power shall be obtained as follows.

(a) For continuous wave; Value obtained in (1)

(b) For burst wave; Mean power in burst that is calculated from the transmission time ratio and the value obtained in (1)

Mean power in burst = indicated value of power meter / transmission time ratio

(3) Measure antenna power per 1 MHz bandwidth (m W / MHz) in the same way as that in Measuring procedures a above.

(4) When EUT has plural antenna terminals, conduct above measurement at each terminal.

Measuring procedures (E.I.R.P)

E.I.R.P = Antenna power + G_{ANT}

5.4.4 Test Deviation

There is no deviation with the original standard.

5.4.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.4.6 Test Result

SISO-Antenna 05.2 GHz Band Mode a

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) + 10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.10	2.32	1.71	-14.70%	20	-80	Pass
Middle		1.89	2.11	1.63	-18.72%	20	-80	Pass
High		1.85	2.07	1.61	-19.47%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	2.32	2.60	4.92	3.11	10.00	Pass
Middle		2.11	2.60	4.71	2.96		Pass
High		2.07	2.60	4.67	2.93		Pass

5.2 GHz Band Mode n 20

Duty cycle = 0.947

Antenna Power Density PD = power value dBm (contains cable loss dB) + 10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	1.68	1.91	1.55	-22.38%	20	-80	Pass
Middle		1.64	1.87	1.54	-23.09%	20	-80	Pass
High		1.70	1.93	1.56	-22.02%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	1.91	2.60	4.51	2.83	10.00	Pass
Middle		1.87	2.60	4.47	2.80		Pass
High		1.93	2.60	4.53	2.84		Pass

5.2 GHz Band Mode n 40

Duty cycle = 0.920

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-1.76	-1.40	0.72	-27.56%	20	-80	Pass
High		-1.92	-1.56	0.70	-30.18%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-1.40	2.60	1.20	1.32	5.00	Pass
High		-1.56	2.60	1.04	1.27		Pass

5.2 GHz Band Mode ac 20

Duty cycle = 0.959

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	1.65	1.83	1.52	-23.80%	20	-80	Pass
Middle		1.67	1.85	1.53	-23.45%	20	-80	Pass
High		1.82	2.00	1.58	-20.76%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	1.83	2.60	4.43	2.77	10.00	Pass
Middle		1.85	2.60	4.45	2.79		Pass
High		2.00	2.60	4.60	2.88		Pass

5.2 GHz Band Mode ac 40

Duty cycle = 0.913

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-1.99	-1.59	0.69	-30.66%	20	-80	Pass
High		-2.04	-1.64	0.69	-31.45%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-1.59	2.60	1.01	1.26	5.00	Pass
High		-1.64	2.60	0.96	1.25		Pass

5.2 GHz Band Mode ac 80

Duty cycle = 0.848

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Middle	NV	-4.67	-3.96	0.40	-19.64%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Middle	NV	-3.96	2.60	-1.36	0.73	2.50	Pass

5.3 GHz Band Mode a

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.13	2.35	1.72	-14.10%	20	-80	Pass
Middle		2.31	2.53	1.79	-10.47%	20	-80	Pass
High		2.23	2.45	1.76	-12.10%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	2.35	2.60	4.95	3.13	10.00	Pass
Middle		2.53	2.60	5.13	3.26		Pass
High		2.45	2.60	5.05	3.20		Pass

5.3 GHz Band Mode n 20

Duty cycle = 0.947

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	1.84	2.07	1.61	-19.47%	20	-80	Pass
Middle		2.07	2.30	1.70	-15.09%	20	-80	Pass
High		2.44	2.67	1.85	-7.54%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	2.07	2.60	4.67	2.93	10.00	Pass
Middle		2.30	2.60	4.90	3.09		Pass
High		2.67	2.60	5.27	3.37		Pass

5.3 GHz Band Mode n 40

Duty cycle = 0.920

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-1.79	-1.43	0.72	-28.06%	20	-80	Pass
High		-1.80	-1.44	0.72	-28.22%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-1.43	2.60	1.17	1.31	5.00	Pass
High		-1.44	2.60	1.16	1.31		Pass

5.3 GHz Band Mode ac 20

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.08	2.30	1.70	-15.09%	20	-80	Pass
Middle		2.17	2.39	1.73	-13.31%	20	-80	Pass
High		1.81	2.03	1.60	-20.21%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	2.30	2.60	4.90	3.09	10.00	Pass
Middle		2.39	2.60	4.99	3.16		Pass
High		2.03	2.60	4.63	2.91		Pass

5.3 GHz Band Mode ac 40

Duty cycle = 0.913

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-2.15	-1.75	0.67	-33.17%	20	-80	Pass
High		-1.93	-1.53	0.70	-29.69%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-1.75	2.60	0.85	1.22	5.00	Pass
High		-1.53	2.60	1.07	1.28		Pass

5.3 GHz Band Mode ac 80

Duty cycle = 0.848

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Middle	NV	-4.62	-3.91	0.41	-18.71%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Middle	NV	-3.91	2.60	-1.31	0.74	2.50	Pass

SISO-Antenna 15.2 GHz Band Mode a

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.31	2.53	1.79	-10.47%	20	-80	Pass
Middle		2.10	2.32	1.71	-14.70%	20	-80	Pass
High		2.27	2.49	1.77	-11.29%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	2.53	2.60	5.13	3.26	10.00	Pass
Middle		2.32	2.60	4.92	3.11		Pass
High		2.49	2.60	5.09	3.23		Pass

5.2 GHz Band Mode n 20

Duty cycle = 0.947

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.17	2.40	1.74	-13.11%	20	-80	Pass
Middle		1.90	2.13	1.63	-18.35%	20	-80	Pass
High		2.01	2.24	1.67	-16.25%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	2.40	2.60	5.00	3.17	10.00	Pass
Middle		2.13	2.60	4.73	2.97		Pass
High		2.24	2.60	4.84	3.05		Pass

5.2 GHz Band Mode n 40

Duty cycle = 0.920

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-1.90	-1.54	0.70	-29.85%	20	-80	Pass
High		-1.63	-1.27	0.75	-25.36%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-1.54	2.60	1.06	1.28	5.00	Pass
High		-1.27	2.60	1.33	1.36		Pass

5.2 GHz Band Mode ac 20

Duty cycle = 0.959

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.20	2.38	1.73	-13.51%	20	-80	Pass
Middle		1.90	2.08	1.61	-19.28%	20	-80	Pass
High		2.06	2.24	1.67	-16.25%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	2.38	2.60	4.98	3.15	10.00	Pass
Middle		2.08	2.60	4.68	2.94		Pass
High		2.24	2.60	4.84	3.05		Pass

5.2 GHz Band Mode ac 40

Duty cycle = 0.913

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-1.89	-1.49	0.71	-29.04%	20	-80	Pass
High		-1.66	-1.26	0.75	-25.18%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-1.49	2.60	1.11	1.29	5.00	Pass
High		-1.26	2.60	1.34	1.36		Pass

5.2 GHz Band Mode ac 80

Duty cycle = 0.848

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Middle	NV	-4.80	-4.09	0.39	-22.01%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Middle	NV	-4.09	2.60	-1.49	0.71	2.50	Pass

5.3 GHz Band Mode a

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.41	2.63	1.83	-8.38%	20	-80	Pass
Middle		2.18	2.40	1.74	-13.11%	20	-80	Pass
High		2.52	2.74	1.88	-6.03%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	2.63	2.60	5.23	3.34	10.00	Pass
Middle		2.40	2.60	5.00	3.16		Pass
High		2.74	2.60	5.34	3.42		Pass

5.3 GHz Band Mode n 20

Duty cycle = 0.947

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.16	2.39	1.73	-13.31%	20	-80	Pass
Middle		1.93	2.16	1.64	-17.78%	20	-80	Pass
High		2.27	2.50	1.78	-11.09%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	2.39	2.60	4.99	3.16	10.00	Pass
Middle		2.16	2.60	4.76	3.00		Pass
High		2.50	2.60	5.10	3.24		Pass

5.3 GHz Band Mode n 40

Duty cycle = 0.920

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-1.94	-1.58	0.70	-30.50%	20	-80	Pass
High		-1.58	-1.22	0.76	-24.49%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-1.58	2.60	1.02	1.27	5.00	Pass
High		-1.22	2.60	1.38	1.38		Pass

5.3 GHz Band Mode ac 20

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.19	2.41	1.74	-12.91%	20	-80	Pass
Middle		1.96	2.18	1.65	-17.40%	20	-80	Pass
High		2.25	2.47	1.77	-11.70%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	2.41	2.60	5.01	3.17	10.00	Pass
Middle		2.18	2.60	4.78	3.01		Pass
High		2.47	2.60	5.07	3.22		Pass

5.3 GHz Band Mode ac 40

Duty cycle = 0.913

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-1.94	-1.54	0.70	-29.85%	20	-80	Pass
High		-1.57	-1.17	0.76	-23.62%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-1.54	2.60	1.06	1.28	5.00	Pass
High		-1.17	2.60	1.43	1.39		Pass

5.3 GHz Band Mode ac 80

Duty cycle = 0.848

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Middle	NV	-4.39	-3.68	0.43	-14.29%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Middle	NV	-3.68	2.60	-1.08	0.78	2.50	Pass

MIMO-Antenna 05.2 GHz Band Mode a

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.25 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	0.14	0.36	1.09	-13.09%	20	-80	Pass
Middle		-0.26	-0.04	0.99	-20.73%	20	-80	Pass
High		0.01	0.23	1.05	-15.65%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	0.36	2.60	2.96	1.98	10.00	Pass
Middle		-0.04	2.60	2.56	1.80		Pass
High		0.23	2.60	2.83	1.92		Pass

5.2 GHz Band Mode n 20

Duty cycle = 0.947

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-0.73	-0.50	0.89	-10.87%	20	-80	Pass
Middle		-0.89	-0.66	0.86	-14.10%	20	-80	Pass
High		-0.73	-0.50	0.89	-10.87%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-0.50	2.60	2.10	1.62	10.00	Pass
Middle		-0.66	2.60	1.94	1.56		Pass
High		-0.50	2.60	2.10	1.62		Pass

5.2 GHz Band Mode n 40

Duty cycle = 0.920

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-5.43	-5.07	0.31	-37.77%	20	-80	Pass
High		-5.31	-4.95	0.32	-36.02%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-5.07	2.60	-2.47	0.57	5.00	Pass
High		-4.95	2.60	-2.35	0.58		Pass

5.2 GHz Band Mode ac 20

Duty cycle = 0.959

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-1.38	-1.20	0.76	-24.14%	20	-80	Pass
Middle		-0.50	-0.32	0.93	-7.10%	20	-80	Pass
High		-0.42	-0.24	0.95	-5.38%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-1.20	2.60	1.40	1.38	10.00	Pass
Middle		-0.32	2.60	2.28	1.69		Pass
High		-0.24	2.60	2.36	1.72		Pass

5.2 GHz Band Mode ac 40

Duty cycle = 0.913

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-5.34	-4.94	0.32	-35.87%	20	-80	Pass
High		-5.10	-4.70	0.34	-32.23%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-4.94	2.60	-2.34	0.58	5.00	Pass
High		-4.70	2.60	-2.10	0.62		Pass

5.2 GHz Band Mode ac 80

Duty cycle = 0.848

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.25 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Middle	NV	-8.03	-7.32	0.19	-25.86%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Middle	NV	-7.32	2.60	-4.72	0.34	2.50	Pass

5.3 GHz Band Mode a

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-0.61	-0.39	0.91	-8.59%	20	-80	Pass
Middle		-0.80	-0.58	0.87	-12.50%	20	-80	Pass
High		-0.94	-0.72	0.85	-15.28%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-0.39	2.60	2.21	1.66	10.00	Pass
Middle		-0.58	2.60	2.02	1.59		Pass
High		-0.72	2.60	1.88	1.54		Pass

5.3 GHz Band Mode n 20

Duty cycle = 0.947

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-1.78	-1.55	0.70	-30.02%	20	-80	Pass
Middle		-1.78	-1.55	0.70	-30.02%	20	-80	Pass
High		-1.29	-1.06	0.78	-21.66%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-1.55	2.60	1.05	1.27	10.00	Pass
Middle		-1.55	2.60	1.05	1.27		Pass
High		-1.06	2.60	1.54	1.43		Pass

5.3 GHz Band Mode n 40

Duty cycle = 0.920

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-4.53	-4.17	0.38	-23.44%	20	-80	Pass
High		-5.70	-5.34	0.29	-41.52%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-4.17	2.60	-1.57	0.70	5.00	Pass
High		-5.34	2.60	-2.74	0.53		Pass

5.3 GHz Band Mode ac 20

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-0.79	-0.57	0.88	-12.30%	20	-80	Pass
Middle		-1.10	-0.88	0.82	-18.34%	20	-80	Pass
High		-1.03	-0.81	0.83	-17.01%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-0.57	2.60	2.03	1.60	10.00	Pass
Middle		-0.88	2.60	1.72	1.49		Pass
High		-0.81	2.60	1.79	1.51		Pass

5.3 GHz Band Mode ac 40

Duty cycle = 0.913

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-4.83	-4.43	0.36	-27.88%	20	-80	Pass
High		-5.59	-5.19	0.30	-39.46%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-4.43	2.60	-1.83	0.66	5.00	Pass
High		-5.19	2.60	-2.59	0.55		Pass

5.3 GHz Band Mode ac 80

Duty cycle = 0.848

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.25 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Middle	NV	-8.47	-7.76	0.17	-33.00%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Middle	NV	-7.76	2.60	-5.16	0.30	2.50	Pass

MIMO-Antenna 15.2 GHz Band Mode a

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.25 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-0.53	-0.31	0.93	-25.51%	20	-80	Pass
Middle		-0.70	-0.48	0.90	-28.37%	20	-80	Pass
High		-0.79	-0.57	0.88	-29.84%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-0.31	2.60	2.29	1.69	10.00	Pass
Middle		-0.48	2.60	2.12	1.63		Pass
High		-0.57	2.60	2.03	1.60		Pass

5.2 GHz Band Mode n 20

Duty cycle = 0.947

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-0.80	-0.57	0.88	-12.30%	20	-80	Pass
Middle		-1.28	-1.05	0.79	-21.48%	20	-80	Pass
High		0.22	0.45	1.11	10.92%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-0.57	2.60	2.03	1.60	10.00	Pass
Middle		-1.05	2.60	1.55	1.43		Pass
High		0.45	2.60	3.05	2.02		Pass

5.2 GHz Band Mode n 40

Duty cycle = 0.920

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-4.98	-4.62	0.35	-30.97%	20	-80	Pass
High		-5.03	-4.67	0.34	-31.76%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-4.62	2.60	-2.02	0.63	5.00	Pass
High		-4.67	2.60	-2.07	0.62		Pass

5.2 GHz Band Mode ac 20

Duty cycle = 0.959

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-1.69	-1.51	0.71	-29.37%	20	-80	Pass
Middle		-1.29	-1.11	0.77	-22.55%	20	-80	Pass
High		-0.30	-0.12	0.97	-2.73%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-1.51	2.60	1.09	1.29	10.00	Pass
Middle		-1.11	2.60	1.49	1.41		Pass
High		-0.12	2.60	2.48	1.77		Pass

5.2 GHz Band Mode ac 40

Duty cycle = 0.913

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-5.47	-5.07	0.31	-37.77%	20	-80	Pass
High		-3.78	-3.38	0.46	-8.16%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-5.07	2.60	-2.47	0.57	5.00	Pass
High		-3.38	2.60	-0.78	0.83		Pass

5.2 GHz Band Mode ac 80

Duty cycle = 0.848

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.25 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Middle	NV	-8.44	-7.73	0.17	-32.54%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Middle	NV	-7.73	2.60	-5.13	0.31	2.50	Pass

5.3 GHz Band Mode a

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-0.24	-0.02	1.00	-0.46%	20	-80	Pass
Middle		0.03	0.25	1.06	5.93%	20	-80	Pass
High		-0.06	0.16	1.04	3.75%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-0.02	2.60	2.58	1.81	10.00	Pass
Middle		0.25	2.60	2.85	1.93		Pass
High		0.16	2.60	2.76	1.89		Pass

5.3 GHz Band Mode n 20

Duty cycle = 0.947

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-0.08	0.15	1.04	3.51%	20	-80	Pass
Middle		-1.02	-0.79	0.83	-16.63%	20	-80	Pass
High		-1.19	-0.96	0.80	-19.83%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	0.15	2.60	2.75	1.89	10.00	Pass
Middle		-0.79	2.60	1.81	1.52		Pass
High		-0.96	2.60	1.64	1.46		Pass

5.3 GHz Band Mode n 40

Duty cycle = 0.920

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-4.27	-3.91	0.41	-18.71%	20	-80	Pass
High		-5.34	-4.98	0.32	-36.46%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-3.91	2.60	-1.31	0.74	5.00	Pass
High		-4.98	2.60	-2.38	0.58		Pass

5.3 GHz Band Mode ac 20

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	0.19	0.41	1.10	9.90%	20	-80	Pass
Middle		-1.46	-1.24	0.75	-24.84%	20	-80	Pass
High		-1.59	-1.37	0.73	-27.05%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	0.41	2.60	3.01	2.00	10.00	Pass
Middle		-1.24	2.60	1.36	1.37		Pass
High		-1.37	2.60	1.23	1.33		Pass

5.3 GHz Band Mode ac 40

Duty cycle = 0.913

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-5.40	-5.00	0.32	-36.75%	20	-80	Pass
High		-5.30	-4.90	0.32	-35.28%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	-5.00	2.60	-2.40	0.58	5.00	Pass
High		-4.90	2.60	-2.30	0.59		Pass

5.3 GHz Band Mode ac 80

Duty cycle = 0.848

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.25 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Middle	NV	-7.64	-6.93	0.20	-18.89%	20	-80	Pass

Test Channel	Test Voltage	Antenna Power Density PD (dBm/MHz)	Antenna Gain (dBi)	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Middle	NV	-6.93	2.60	-4.33	0.37	2.50	Pass

MIMO5.2 GHz Band Mode a

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.83	3.05	2.02	-19.27%	20	-80	Pass
Middle		2.54	2.76	1.89	-24.48%	20	-80	Pass
High		2.64	2.86	1.93	-22.72%	20	-80	Pass

Test Channel	Test Voltage	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	5.65	3.67	10.00	Pass
Middle		5.36	3.43		Pass
High		5.46	3.52		Pass

5.2 GHz Band Mode n 20

Duty cycle = 0.947

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.25	2.48	1.77	-11.49%	20	-80	Pass
Middle		1.93	2.16	1.64	-17.78%	20	-80	Pass
High		2.78	3.02	2.00	0.22%	20	-80	Pass

Test Channel	Test Voltage	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	5.08	3.22	10.00	Pass
Middle		4.76	3.00		Pass
High		5.62	3.64		Pass

5.2 GHz Band Mode n 40

Duty cycle = 0.920

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-2.19	-1.83	0.66	-34.39%	20	-80	Pass
High		-2.16	-1.79	0.66	-33.78%	20	-80	Pass

Test Channel	Test Voltage	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	0.77	1.20	5.00	Pass
High		0.81	1.20		Pass

5.2 GHz Band Mode ac 20

Duty cycle = 0.959

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	1.48	1.66	1.47	-26.72%	20	-80	Pass
Middle		2.13	2.31	1.70	-14.89%	20	-80	Pass
High		2.65	2.83	1.92	-4.07%	20	-80	Pass

Test Channel	Test Voltage	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	4.26	2.67	10.00	Pass
Middle		4.91	3.10		Pass
High		5.43	3.49		Pass

5.2 GHz Band Mode ac 40

Duty cycle = 0.913

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-2.39	-2.00	0.63	-36.90%	20	-80	Pass
High		-1.38	-0.98	0.80	-20.20%	20	-80	Pass

Test Channel	Test Voltage	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	0.60	1.15	5.00	Pass
High		1.62	1.45		Pass

5.2 GHz Band Mode ac 80

Duty cycle = 0.848

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Middle	NV	-5.22	-4.51	0.35	-29.20%	20	-80	Pass

Test Channel	Test Voltage	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Middle	NV	-1.91	0.64	2.50	Pass

5.3 GHz Band Mode a

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.59	2.81	1.91	-4.51%	20	-80	Pass
Middle		2.65	2.87	1.94	-3.18%	20	-80	Pass
High		2.53	2.75	1.88	-5.82%	20	-80	Pass

Test Channel	Test Voltage	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	5.41	3.48	10.00	Pass
Middle		5.47	3.52		Pass
High		5.35	3.43		Pass

5.3 GHz Band Mode n 20

Duty cycle = 0.947

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.16	2.40	1.74	-13.11%	20	-80	Pass
Middle		1.63	1.86	1.53	-23.27%	20	-80	Pass
High		1.77	2.01	1.59	-20.57%	20	-80	Pass

Test Channel	Test Voltage	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	5.00	3.16	10.00	Pass
Middle		4.46	2.79		Pass
High		4.61	2.89		Pass

5.3 GHz Band Mode n 40

Duty cycle = 0.920

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-1.39	-1.02	0.79	-20.93%	20	-80	Pass
High		-2.51	-2.14	0.61	-38.91%	20	-80	Pass

Test Channel	Test Voltage	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	1.58	1.44	5.00	Pass
High		0.46	1.11		Pass

5.3 GHz Band Mode ac 20

Duty cycle = 0.950

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 2.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	2.74	2.96	1.98	-1.15%	20	-80	Pass
Middle		1.73	1.96	1.57	-21.48%	20	-80	Pass
High		1.71	1.93	1.56	-22.02%	20	-80	Pass

Test Channel	Test Voltage	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	5.56	3.60	10.00	Pass
Middle		4.56	2.86		Pass
High		4.53	2.84		Pass

5.3 GHz Band Mode ac 40

Duty cycle = 0.913

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 1.00 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Low	NV	-2.10	-1.70	0.68	-32.39%	20	-80	Pass
High		-2.43	-2.04	0.63	-37.48%	20	-80	Pass

Test Channel	Test Voltage	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Low	NV	0.90	1.23	5.00	Pass
High		0.56	1.14		Pass

5.3 GHz Band Mode ac 80

Duty cycle = 0.848

Antenna Power Density PD = power value dBm (contains cable loss dB) +10 log₁₀(1/ Duty cycle) dB

Manufacturer declares the rated power density= 0.50 mW/MHz

Test Channel	Test Voltage	Power Value (dBm)	Antenna Power Density PD (dBm/ MHz)	Antenna Power Density PD (mW / MHz)	Antenna Power Error	Upper Limit (%)	Lower Limit (%)	Verdict
Middle	NV	-5.02	-4.31	0.37	-25.86%	20	-80	Pass

Test Channel	Test Voltage	E.I.R.P (dBm/MHz)	E.I.R.P (mW/MHz)	E.I.R.P Limit (mW/MHz)	Verdict
Middle	NV	-1.71	0.67	2.50	Pass

5.5 Adjacent channel leakage power and out-band leakage power

5.5.1 Limit

Adjacent channel leakage power limit

Test Mode	Limits						
	DSSS		OFDM				
	20 MHz	40 MHz	20 MHz	40 MHz	80 MHz	80MHz+80MHz (Not adjacent band)	160MHz
5GHz Band	Fc $\pm$ 20 MHz $\pm$ 10 MHz BW:-25 dBc	--	Fc $\pm$ 20 MHz $\pm$ 10 MHz BW:-25dBc	Fc $\pm$ 40 MHz $\pm$ 20 MHz BW:-25dBc	Fc $\pm$ 80 MHz $\pm$ 40 MHz BW:-25 dBc	Fc $\pm$ 80 MHz $\pm$ 40 MHz BW:-25 dBc	--
	Fc $\pm$ 40 MHz $\pm$ 10 MHz BW:-40 dBc	--	Fc $\pm$ 40 MHz $\pm$ 10 MHz BW:-40 dBc	Fc $\pm$ 80 MHz $\pm$ 20 MHz BW:-40 dBc			

5.5.2 Test Setup

See section 4.3.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.5.3 Test Procedure

- Set the spectrum analyzer as follows to measure adjacent channel leakage power:

Center frequency: Frequency shown in "Measuring procedures"

Frequency sweep width: Width shown in "Note 1";

Resolution bandwidth: 300 kHz

Video bandwidth: 300 kHz

T-axis scale: 10 dB / div.

Input level: A level to obtain the maximum dynamic range;

Number of data points: 400 points or more;

Sweep mode: Single sweep;

Detection mode: Sample. However, positive peak for burst wave;

Number of times for averaging amplitude levels: Until spectrum fluctuation is not observed

Note 1: Frequency sweep width shall be as follows:

Band	Modulation other than OFDM	bandwidth≤20 MHz	20<bandwidth≤40 MHz	40<bandwidth≤80 MHz
5.2 GHz Band	18 MHz	20 MHz	40 MHz	80 MHz
5.3 GHz Band	18 MHz	20 MHz	40 MHz	80 MHz
5.6 GHz Band	18 MHz	20 MHz	40 MHz	80 MHz

Measurement procedures

1) Measurement of adjacent channel leakage power:

1. Set the spectrum analyzer according to spectrum analyzer settings.

2. Measurement of carrier power (P_c)

(a). Sweep by setting the center frequency to the carrier frequency.

(b). Store the values at all data points into the computer array variables.

(c). Convert dB values at all data points into antilogarithm on the power dimension.

(d). Calculate sum total of the power at all data points and store it as " P_c ".

3. Measurement of upper adjacent channel leakage power (P_U)

(a). Sweep by setting the center frequency to "carrier frequency + 20 MHz or 40 MHz (Note 3)".

(b). Store the values at all data points into the computer array variables.

(c). Convert dB values at all data points into antilogarithm on the power dimension.

(d). Calculate sum total of the power at all data points and store it as " P_U ".

(e). Sweep by setting the center frequency to "carrier frequency + 40 MHz or 80 MHz (Note 3)" and then repeat the procedures of (b) to (d).

4. Measurement of lower adjacent channel leakage power (P_L)

(a). Sweep by setting the center sequence to "carrier frequency - 20 MHz or 40 MHz (Note 3)".

(b). Store the values at all data points into the computer array variables.

(c). Convert dB values at all data points into antilogarithm on the power dimension.

(d). Calculate sum total of the power at all data points and store it as " P_L ".

(e). Sweep by setting the center frequency to "carrier frequency - 40 MHz or 80 MHz (Note 3)" and then repeat the procedures of (b) to (d).

5. When EUT has plural antenna terminals, above measurement shall be conducted in the state that the terminals are connected through a combiner besides the measurement at each antenna terminal.

5.5.4 Test Deviation

There is no deviation with the original standard.

5.5.5 EUT Operation during Test

The EUT was programmed to be in continuously receiving mode.

5.5.6 Test Result

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2530093-603 Data Part 4.pdf”.

Note 2: All antenna were pre tested, but only the worst case has been reported in this report.

Note3: The test results all include antenna gain.

SISO-Antenna 0

Test Data (Adjacent channel leakage power)

Band	Mode	Test Voltage	Channel	Frequency (MHz)	Verdict
5.2 GHz Band	a	NV	Low	5180	Pass
			Middle	5220	Pass
			High	5240	Pass
	n 20	NV	Low	5180	Pass
			Middle	5220	Pass
			High	5240	Pass
	n 40	NV	Low	5190	Pass
			High	5230	Pass
	ac 20	NV	Low	5180	Pass
			Middle	5220	Pass
			High	5240	Pass
	ac 40	NV	Low	5190	Pass
			High	5230	Pass
	ac 80	NV	Middle	5210	Pass

Band	Mode	Test Voltage	Channel	Frequency (MHz)	Verdict
5.3 GHz Band	a	NV	Low	5260	Pass
			Middle	5300	Pass
			High	5320	Pass
	n 20	NV	Low	5260	Pass
			Middle	5300	Pass
			High	5320	Pass
	n 40	NV	Low	5270	Pass
			High	5310	Pass
	ac 20	NV	Low	5260	Pass
			Middle	5300	Pass
			High	5320	Pass
	ac 40	NV	Low	5270	Pass
			High	5310	Pass
	ac 80	NV	Middle	5290	Pass

Test Data (Out-band leakage power)

Band	Mode	Test Voltage	Channel	Frequency (MHz)	Verdict
5.2 GHz Band	a	NV	Low	5180	Pass
			Middle	5220	Pass
			High	5240	Pass
	n 20	NV	Low	5180	Pass
			Middle	5220	Pass
			High	5240	Pass
	n 40	NV	Low	5190	Pass
			High	5230	Pass
	ac 20	NV	Low	5180	Pass
			Middle	5220	Pass
			High	5240	Pass
	ac 40	NV	Low	5190	Pass
			High	5230	Pass
	ac 80	NV	Middle	5210	Pass

Band	Mode	Test Voltage	Channel	Frequency (MHz)	Verdict
5.3 GHz Band	a	NV	Low	5260	Pass
			Middle	5300	Pass
			High	5320	Pass
	n 20	NV	Low	5260	Pass
			Middle	5300	Pass
			High	5320	Pass
	n 40	NV	Low	5270	Pass
			High	5310	Pass
	ac 20	NV	Low	5260	Pass
			Middle	5300	Pass
			High	5320	Pass
	ac 40	NV	Low	5270	Pass
			High	5310	Pass
	ac 80	NV	Middle	5290	Pass

5.6 Limit of secondary radiated emissions

5.6.1 Limit

Item	Limits
Below 1 GHz	4 nW or less
1 GHz or more	20 nW or less

5.6.2 Test Setup

See section 4.3.3 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.6.3 Test Procedure

(1) Set the dummy load attenuation to a range as low as possible (20 dB or less) because of low level measurement.

(2) Set the spectrum analyzer as follows to search for secondary radiated emissions;

Frequency sweep width: (See Note 2.)

Resolution bandwidth: 100 kHz for frequency of below 1 GHz; 1 MHz for frequency of 1 GHz or higher.

Video bandwidth: Approximately same as the resolution bandwidth

Sweep time: Minimum time to ensure the measuring accuracy

Y-axis scale: 10 dB / div

Number of data points: 400 points or more (e.g. 1001 points)

Sweep mode: Single sweep

Detection mode: Positive peak

Note 2: Search for secondary radiated emissions from 30 MHz to 26 GHz.

(3) Set the spectrum analyzer as follows to measure secondary radiated emission levels;

Center frequency: Frequency of secondary radiated emission to be measured (searched frequency)

Frequency sweep width: 0 Hz

Resolution bandwidth: 100 kHz for frequency of below 1 G Hz; 1 MHz for frequency of 1 GHz or higher

Video bandwidth: Approximately same as the resolution bandwidth

Sweep time: Minimum time to ensure the measuring accuracy

Y-axis scale: 10 dB / div;

Number of data points: 400 points or more (e.g. 1001 points)

Sweep mode: Single sweep

Detection mode: Positive peak

Measuring procedures

- (1) Set the spectrum analyzer according to spectrum analyzer settings and search for the maximum amplitude level of secondary radiated emissions.
- (2) When the maximum amplitude level of the searched emissions is one tenth ($1 / 10$) or less of the tolerance, put the level as the measured value.
- (3) When the maximum amplitude level of the searched emissions is over one tenth ($1 / 10$) of the tolerance, narrow down the frequency sweep width sequentially from 100 MHz up to approximately 10 times the resolution bandwidth in order to raise the center frequency accuracy of the spectrum analyzer and read the frequency. Then set the spectrum analyzer according to spectrum analyzer settings and measure the mean power by averaging the levels.
- (4) When EUT has plural antenna terminals, above measurement shall be conducted for each terminal.

5.6.4 Test Deviation

There is no deviation with the original standard.

5.6.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.6.6 Test Result

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2530093-603 Data Part 5.pdf”.

Note 2: All antenna were pre tested, but only the worst case has been reported in this report.

Note3: The test results all include antenna gain.

SISO-Antenna 0Test Data

Band	Mode	Test Voltage	Channel	Frequency (MHz)	Verdict
5.2 GHz Band	a	NV	Low	5180	Pass
			Middle	5220	Pass
			High	5240	Pass
	n 20	NV	Low	5180	Pass
			Middle	5220	Pass
			High	5240	Pass
	n 40	NV	Low	5190	Pass
			High	5230	Pass
	ac 20	NV	Low	5180	Pass
			Middle	5220	Pass
			High	5240	Pass
	ac 40	NV	Low	5190	Pass
			High	5230	Pass
	ac 80	NV	Middle	5210	Pass

Band	Mode	Test Voltage	Channel	Frequency (MHz)	Verdict
5.3 GHz Band	a	NV	Low	5260	Pass
			Middle	5300	Pass
			High	5320	Pass
	n 20	NV	Low	5260	Pass
			Middle	5300	Pass
			High	5320	Pass
	n 40	NV	Low	5270	Pass
			High	5310	Pass
	ac 20	NV	Low	5260	Pass
			Middle	5300	Pass
			High	5320	Pass
	ac 40	NV	Low	5270	Pass
			High	5310	Pass
	ac 80	NV	Middle	5290	Pass

5.7 Interference prevention function

5.7.1 Limit

EUT shall have a function of automatic transmission or reception of identification code.

5.7.2 Test Setup

See section 4.3.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.7.3 Test Procedure

(1) The demodulator shall be able to demodulate signals transmitted from the EUT and display description on a received identification code.

(2) The "equipment to communicate with EUT" shall be able to transmit identification code equivalent to the code transmitted from the EUT.

Measuring procedures

(1) In case that the EUT has a function to transmit identification code automatically;

a. Transmit a specified identification code from the EUT.

b. Verify the transmitted identification code using the demodulator.

(2) In case that the EUT has a function to receive identification code automatically;

a. Transmit a specified identification code from the "equipment to communicate with EUT".

b. Verify that communication is normally conducted.

c. Transmit a code other than the specified identification code from the "equipment to communicate with EUT".

d. Verify that the EUT stops the transmission or the display indicates message showing wrong identification code.

(3) If above conditions cannot be achieved, confirm them from the submitted documents.

5.7.4 Test Deviation

There is no deviation with the original standard.

5.7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.7.6 Test Result

Test Data

MAC ID: 6CFF73345C7

Test Voltage	Test Result (ID Code)	Verdict
NV	GOOD	Pass

5.8 Transmission burst length

5.8.1 Limit

Item	Limits
All of mode	8 ms or less

5.8.2 Test Setup

See section 4.3.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.8.3 Test Procedure

Set the spectrum analyzer as follows:

Center frequency: Test frequency;

Frequency sweep width: 0 Hz;

Resolution bandwidth: 10 MHz;

Video bandwidth: Approximately same as the resolution bandwidth;

Sweep time: Minimum time to ensure the measuring accuracy;

Y-axis scale: 10 dB / div;

Detection mode: Positive peak;

Trigger condition: Leading edge of level.

Measuring procedures

(1) Set the spectrum analyzer according to "2" above. Then set the trigger condition to a leading edge trigger and the EUT to transmission state.

(2) When EUT has plural antenna terminals, combine the output of the antenna terminals referring to "6. Supplementary explanation" and measure the time from start of radio wave transmission by an antenna to termination of radio wave transmission by all antennas.

5.8.4 Test Deviation

There is no deviation with the original standard.

5.8.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.8.6 Test Result

Note: All antenna were pre tested, but only the worst case has been reported in this report.

SISO-Antenna 0

Test Data

Band	Mode	Test Voltage	Channel	Burst length (ms)	Limit(ms)	Verdict
5.2 GHz Band	a	NV	Low	1.352	8.00	Pass
			Middle	1.350		Pass
			High	1.340		Pass
	n 20	NV	Low	1.266		Pass
			Middle	1.260		Pass
			High	1.257		Pass
	n 40	NV	Low	0.630		Pass
			High	0.625		Pass
	ac 20	NV	Low	1.266		Pass
			Middle	1.266		Pass
			High	1.266		Pass
	ac 40	NV	Low	0.630		Pass
			High	0.630		Pass
	ac 80	NV	Middle	0.312		Pass

Band	Mode	Test Voltage	Channel	Burst length (ms)	Limit(ms)	Verdict
5.3 GHz Band	a	NV	Low	1.350	8.00	Pass
			Middle	1.348		Pass
			High	1.348		Pass
	n 20	NV	Low	1.266		Pass
			Middle	1.260		Pass
			High	1.260		Pass
	n 40	NV	Low	0.625		Pass
			High	0.625		Pass
	ac 20	NV	Low	1.260		Pass
			Middle	1.260		Pass
			High	1.260		Pass
	ac 40	NV	Low	0.627		Pass
			High	0.630		Pass
	ac 80	NV	Middle	0.314		Pass

5.9 Carrier sensing function

5.9.1 Limit

Field intensity in the direction of the maximum gain of a receiving antenna: 100mV/m

Start transmission after performing a carrier sense. However, when transmission and reception are controlled from the radio equipment and when the radio equipment which performed transmission resumes transmission within 8millisecond after a career sense, it can omit performing a career sense.

Record the result as “Good” or “No Good (or NG)”.

5.9.2 Test Setup

See section 4.3.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.9.3 Test Procedure

Set the standard signal generator as follows;

Carrier frequency: Center of reception frequency band of the EUT

Modulation: No modulation (See the Note below.)

Output level: A level giving the field strength of 100 m V / m at antenna input terminal of the EUT

Note: When the carrier sense of EUT does not function by unmodulated carrier signal at the center frequency, detune the frequency or modulate the carrier as appropriate.

Set the spectrum analyzer as follows;

Center frequency: Center of frequency band to be used

Frequency sweep width: 50MHz

Resolution bandwidth: Approximately 1 MHz

Video bandwidth: Approximately same as the resolution bandwidth

Y-axis scale: 10 dB / div.

Trigger condition: Free run

Detection mode: Positive peak

(3) The external test device shall be able to make a communication link with the EUT. Radio equipment that can communicate with the EUT may be used instead of the external test device.

Measuring procedures

I) For the test without external test device

(1) Turn off the output of the standard signal generator, set the EUT to transmission state and confirm using the spectrum analyzer that the EUT is transmitting radio wave.

(2) Set the EUT reception state.

(3) Turn on the output of the standard signal generator, set the EUT to transmission state and confirm using the spectrum analyzer that the EUT does not transmit radio wave.

II) For the test using: external test device

(1) Turn off the output of the standard signal generator.

(2) Make a communication link between the EUT and the external test device and confirm using the spectrum analyzer that the EUT is transmitting a test frequency signal.

(3) Set the EUT to reception state.

(4) Turn on the output of the standard signal generator, switch the EUT to transmission state and confirm using the spectrum analyzer that the EUT does not transmit radio wave.

5.9.4 Test Deviation

There is no deviation with the original standard.

5.9.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.9.6 Test Result

Test Data

Band	Mode	Test Voltage	Channel	Test Result	Verdict
5.2 GHz Band	a	NV	Low	GOOD	Pass
			Middle	GOOD	Pass
			High	GOOD	Pass
	n 20	NV	Low	GOOD	Pass
			Middle	GOOD	Pass
			High	GOOD	Pass
	n 40	NV	Low	GOOD	Pass
			High	GOOD	Pass
	ac 20	NV	Low	GOOD	Pass
			Middle	GOOD	Pass
			High	GOOD	Pass
	ac 40	NV	Low	GOOD	Pass
			High	GOOD	Pass
	ac 80	NV	Middle	GOOD	Pass

Band	Mode	Test Voltage	Channel	Test Result	Verdict
5.3 GHz Band	a	NV	Low	GOOD	Pass
			Middle	GOOD	Pass
			High	GOOD	Pass
	n 20	NV	Low	GOOD	Pass
			Middle	GOOD	Pass
			High	GOOD	Pass
	n 40	NV	Low	GOOD	Pass
			High	GOOD	Pass
	ac 20	NV	Low	GOOD	Pass
			Middle	GOOD	Pass
			High	GOOD	Pass
	ac 40	NV	Low	GOOD	Pass
			High	GOOD	Pass
	ac 80	NV	Middle	GOOD	Pass

5.10 Dynamic frequency selection (DFS)

5.10.1 Limit

DFS requirement values	
Parameter	values
Channel Availability Check Time	60 sec
Channel Move Time	10 sec
Channel C losing Transmission Time	260 ms
Non-occupancy period	Minimum 30 minutes

Band 2: Parameters DFS radar test signal				
Test Signal (#)	Pulse width(us)	Pulse repetition frequency PRF (Hz)	Pulses per burst (PPB)	Detection probability (%)
1	0.5-5	200-1000	10	≥ 60
2	0.5-15	200-1600	15	≥ 60
3	0.5-5	200-1000	Note	≥ 60
4	0.5-15	200-1600	Note	≥ 60
5	0.5-1.5	1114-1118	30	≥ 60
6	0.5-1.5	928-932	25	≥ 60
7	0.5-1.5	886-890	24	≥ 60
8	0.5-1.5	738-742	20	≥ 60
Note: Multiply the pulse repetition frequency by 0.026 (if the result is a fraction, round up), when the result is less than 22, the larger value between the result and 22 is taken. When the result is greater than 30, take the smaller value between the result and 30.				

Band 3: Un-modulation Parameters DFS radar test signal				
Test Signal (#)	Pulse width(us)	Pulse repetition frequency PRF (Hz)	Pulses per burst (PPB)	Detection probability (%)
1	0.5	720	18	≥ 60
2	1.0	700	18	≥ 60
3	2.0	250	18	≥ 60
4	1~5 (step 1)	4347-6667 (step 1)	23~29	≥ 60
5	6~10 (step 1)	2000-5000 (step 1)	16~18	≥ 60
6	11~20 (step 1)	2000-5000 (step 1)	12~16	≥ 60
Aggregate (Radar Types 1-6)				≥ 80

Band 3: Chirp Modulation (5-20 MHz) Parameters DFS radar test signal					
Test Signal (#)	Pulse width(us)	Pulse repetition frequency PRF (Hz)	Number of Pulses per Burst	Number of Bursts	Detection probability (%)
7	50-100 (step 1)	500-1000 (step 1)	1-3	8-10	≥ 80

Band 3: 5470-5725 MHz Frequency Hopping Modulation Parameters DFS radar test signal					
Test Signal (#)	Pulse width(us)	Pulse repetition frequency PRF (Hz)	Number of Pulses per Burst	Number of Bursts	Detection probability (%)
8	1	3000	9 (3ms)	300	≥ 70

DFS Threshold Level	
DFS Threshold level: -55.43	☒ At the antenna connector (conducted -55.43 dBm)
	☐ In front of the antenna (-64 dBm e.i.r.p)
Note 1: DFS Detection Threshold (dBm) = -55.43 dBm The DFS Detection Threshold Level is (-62 dBm) + 6.57 dBi = -55.43 dBm Note 2: Maximum + DFS Detection Threshold Level is (-62 dBm) + G_{ANT} Maximum EIRP ≥ 200mW (23dBm), DFS Detection Threshold Level is (-64 dBm) + G_{ANT}	
User Access Restrictions	
☒ DFS controls (hardware or software) related to radar detection are Not accessible to the user	

☒ Test transmission sequence is from the Master to the Slave
☒ For Band 2 (5250-5350 MHz) Monitoring of operating channel channel with about 50% loading over maximum signal transmission speed.
☒ For Band 3 (5470-5725 MHz) Monitoring of operating channel channel with about 17% loading over maximum signal transmission speed.
☒ No transmissions on channels being checked during a Channel Availability Check and Confirming Available Channels

5.10.2 Test Setup

See section 4.3.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.10.3 Test Procedure

Verify the operation of dynamic frequency selection function using each test signal (fixed pulse radar wave test signal (fixed pulse 1, 2)) described in "2" as a quasi-radar pulse in accordance with the following procedures.

Verification of available channel

- Turn off the output of the standard signal generator.
- Initialize the EUT and set it to "verification state of available channel". Then verify using the spectrum analyzer or the external test device that radio wave is not transmitted.
- Turn on the output of the standard signal generator at a time selected randomly in 60 seconds that is the time for verifying available channel, and supply the specified input level of quasi radar pulse to the EUT.
- Repeat the procedures of (a) to (c) four times and record the result of quasi radar pulse detection as "Detected" or "Not detected".

Monitoring of operating channel

- a. Turn off the output of the standard signal generator.
- b. Initialize the EUT, set it to "monitoring state of operating channel" and transmit radio wave at the test frequency.
- c. Establish communications with the external test device under the specified loading condition.
- d. Turn on the output of the standard signal generator and supply the specified input level of quasi radar pulse to the EUT.
- e. When a quasi-radar pulse is supplied to the EUT first, verify using the spectrum analyzer whether the quasi radar pulse is detected. (EUT shall suspend the transmission when quasi radar pulse is detected.)
- f. Repeat the procedures of (a) to (e) twenty (20) times and record the result of quasi radar pulse detections. When the number of times of the quasi radar pulse detections becomes 15 times or more, terminate the measurement.
- g. When the number of times of quasi radar pulse detections is 11 to 14 times in (f), proceed to (h).
- h. Repeat the procedures of (a) to (e) additionally 20 times, record the number of times of the quasi radar pulse detections and obtain the total number of times by adding the number of times in (f)..

5.10.4 Test Deviation

There is no deviation with the original standard.

5.10.5 EUT Operation during Test

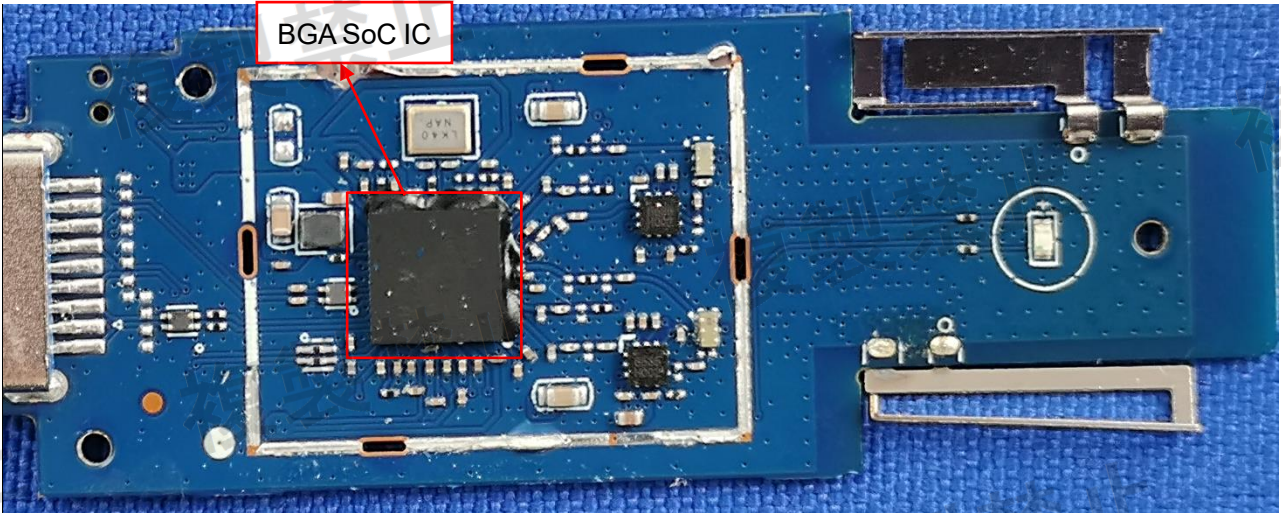
The EUT was programmed to be in continuously transmitting mode.

5.10.6 Test Result

Note: Not applicable.

5.11 Construction Protection Confirmation Method

The RF and modulation portions are protected against illegal modification as following method:

Protected Method	Description
Structure protection	The RF Module is BGA SoC IC, and RF part is mounted on PCB with surface mount technology, can't be easily modified
Reference Photo	
	

ANNEX A TEST SETUP PHOTOS

1 Conducted Test Photo

Conducted Test



ANNEX B EUT EXTERNAL PHOTOS

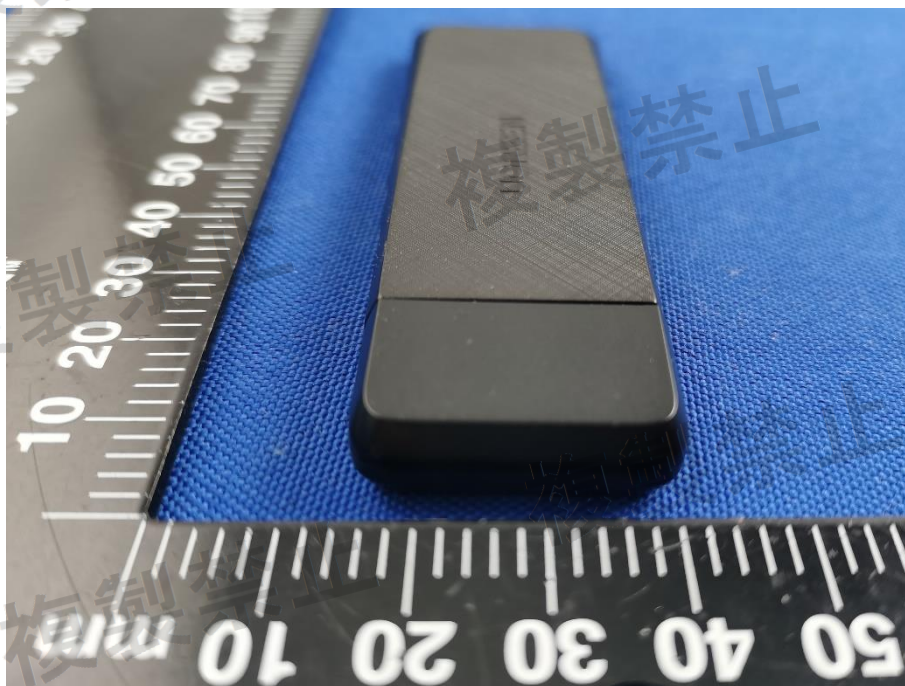
FRONT VIEW OF EUT



REAR VIEW OF EUT



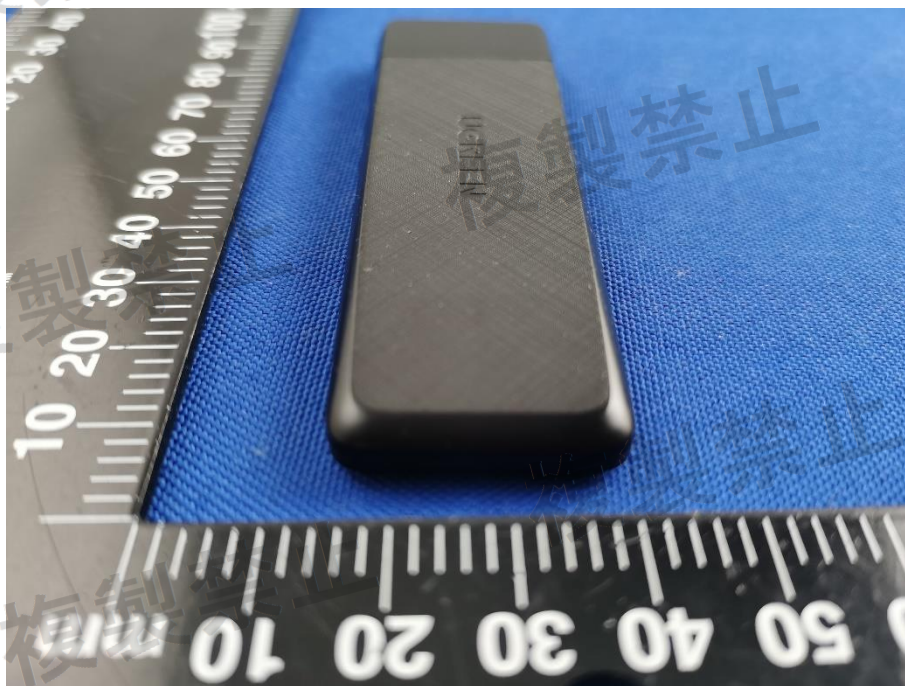
LEFT VIEW OF EUT



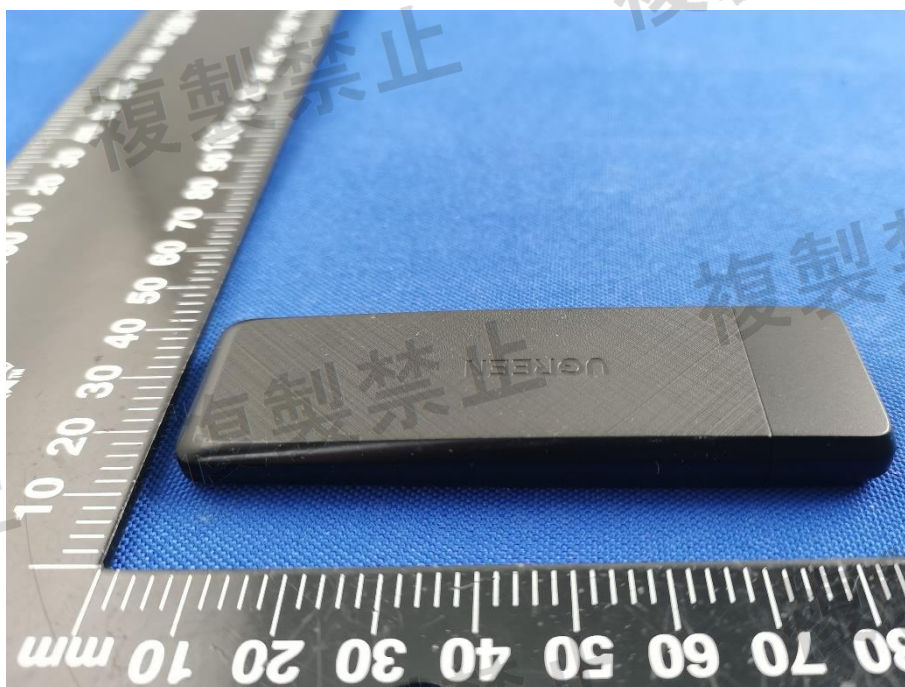
LEFT VIEW OF EUT



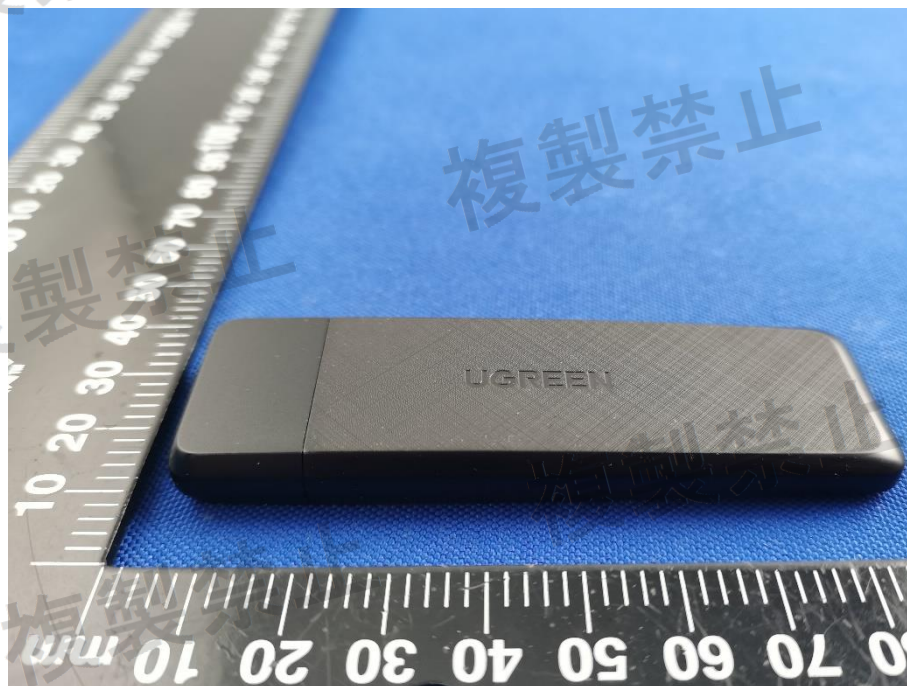
RIGHT VIEW OF EUT



TOP VIEW OF EUT

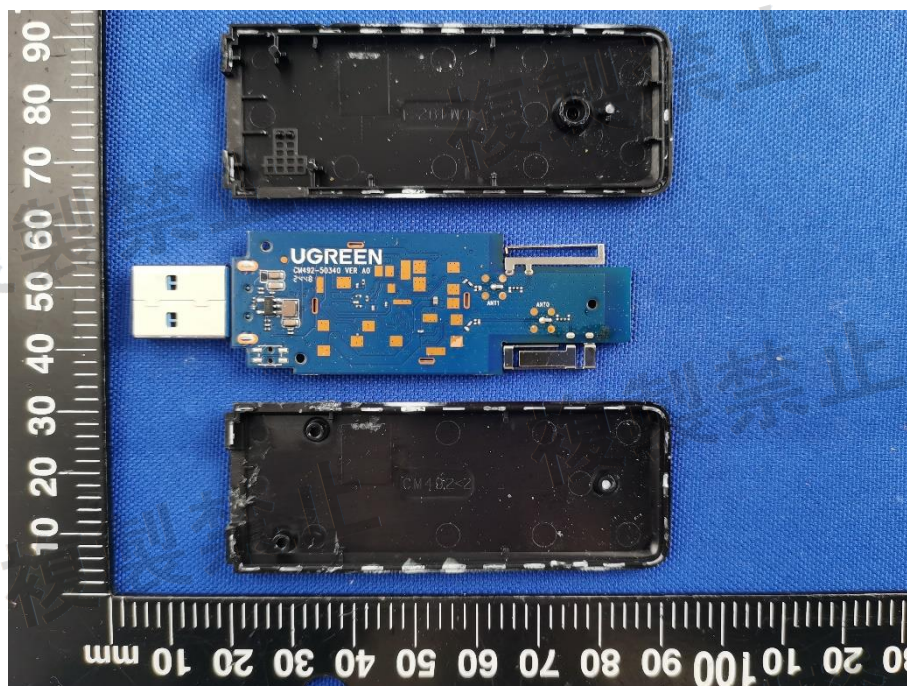


BOTTOM VIEW OF EUT

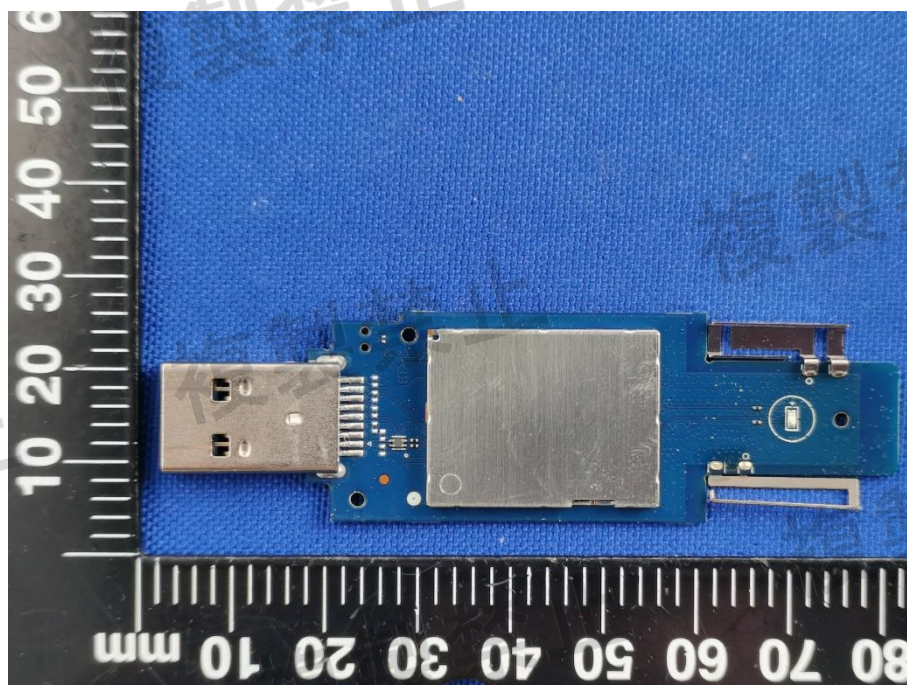


ANNEX C EUT INTERNAL PHOTOS

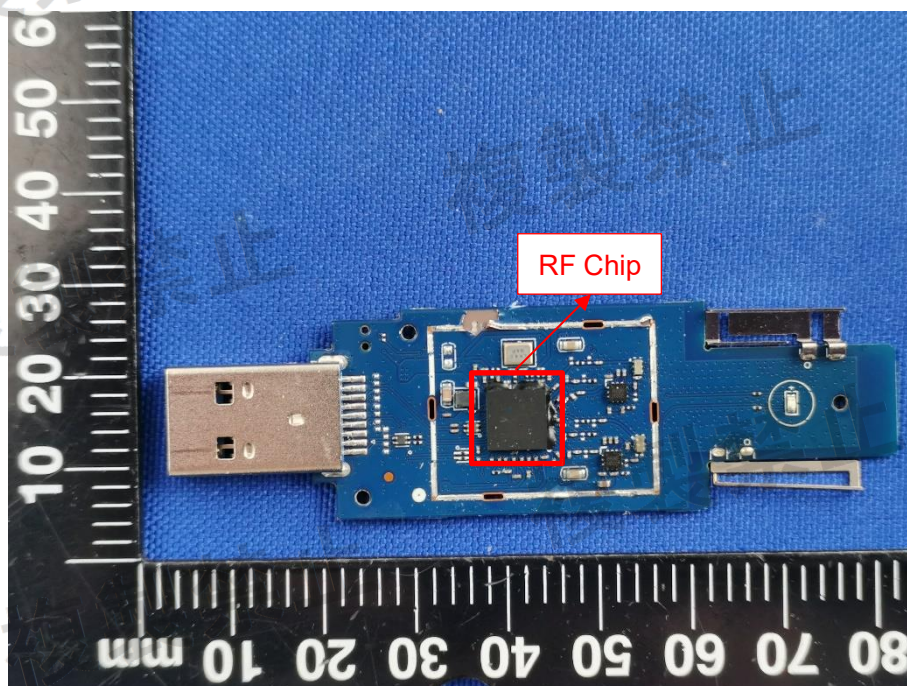
EUT UNCOVER VIEW 1



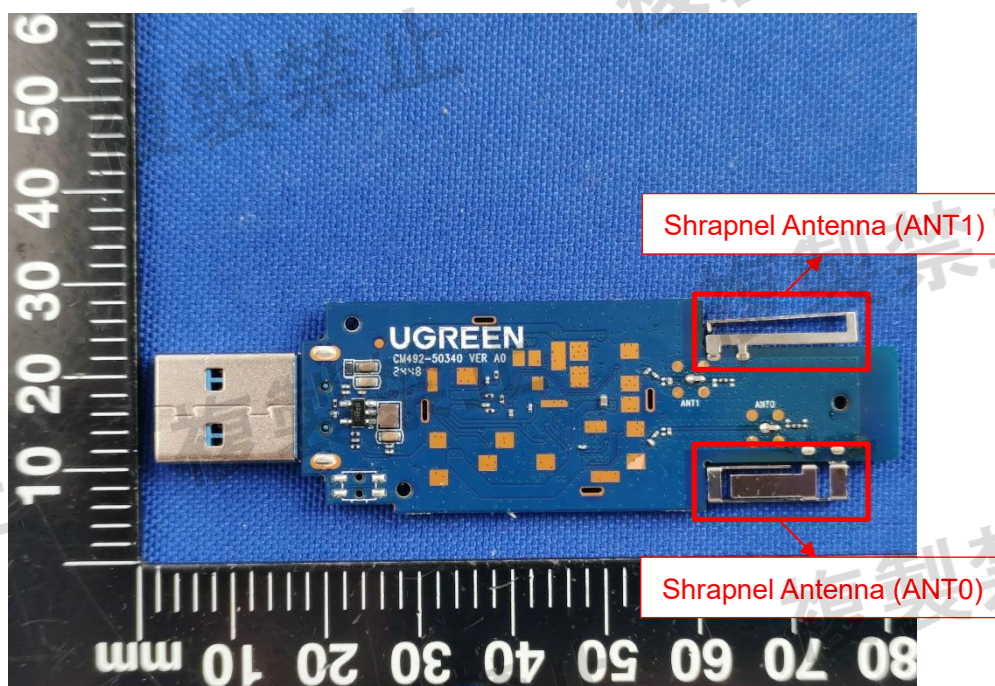
MAIN BOARD TOP VIEW (WITH SHIELDING)



MAIN BOARD TOP VIEW (WITHOUT SHIELDING)



MAIN BOARD REAR VIEW



Statement

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--END OF REPORT--