



TEST REPORT

Applicant: MAXWEST COMMUNICATION LIMITED

Address: FLAT/RM 707 7/F, FORTRESS TOWER 250 KING'S ROAD, NORTH

POINT, HONG KONG

FCC ID: 2ASP8NITRO55A

Product Name: Phone

Model Number: NITRO 55A

Standard(s): 47 CFR Part 15, Subpart C(15.247)

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR22060051-00A

Date Of Issue: 2022-07-23

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Title: Manager

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

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The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Phone
EUT Model:	NITRO 55A
Operation Frequency:	2412-2462 MHz(802.11b/g/n ht20) 2402-2480MHz(BLE)
Maximum Peak Output Power	21.27dBm(802.11b/g/n)
(Conducted):	-0.15 dBm(BLE)
Modulation Type:	DSSS, OFDM(802.11b/g/n) GFSK(BLE)
Rated Input Voltage:	DC 3.8V from battery or DC 5V from adapter
Serial Number:	CR22060051-RF-S1
EUT Received Date:	2022.7.4
EUT Received Status:	Good

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Operation Frequency Detail: For 802.11b/g/n ht20:

1 01 002:110/8/111020:	For 602.11b/g/n ht20.					
Channel	Frequency (MHz)	Channel	Frequency (MHz)			
1	2412	7	2442			
2	2417	8	2447			
3	2422	9	2452			
4			2457			
5	2432	11	2462			
6	6 2437		/			
Per section 15.31(m), the	below frequencies were perform	ned the test as below:				
Test	Channel	· ·	luency IHz)			
Lowest		2412				
Middle		2437				
H	ighest	2462				

For BLE:

Channel	Channel Frequency (MHz)		Frequency (MHz)
0	2402	20	2442
1	2404	***	•••
		38	2478
19	19 2440		2480
Per section 15.31(m), the	below frequencies were perform	ned the test as below:	
Test Channel			quency MHz)
Lowest		2402	
Middle		2440	

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2480

Antenna Information Detail ▲:

Highest

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range	§15.203 Requirement	
MAXWEST COMMUNICATION LIMITED	FPC	50	-0.98 dBi/ 2.4~2.5GHz	Compliance	
The Method of §15.203 Co	The Method of §15.203 Compliance:				
☑Antenna must be permanently attached to the unit.					
☐Antenna must use a unique type of connector to attach to the EUT.					
Unit must be professionally installed, and installer shall be responsible for verifying that the					
correct antenna is employed with the unit.					

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters			
Adapter 1#	Maxwest	NITRO 55A	Input: 100-240V~50/60Hz 0.15A Output: 5.0V 1000mA			
Adapter 2#	Maxwest	SC/5WM500100-US	Input: 100-240V~50/60Hz 0.4A Output: 5.0V 1000mA			
Note: Per test for DSS report, the worst adapter is Adapter 1#, therefore, only adapter 1# was tested for this report.						

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

For 802.11b/g/n:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
Equipment Modifications:	No
EUT Exercise Software:	Engineering

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The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer \blacktriangle :

Test Modes	Data Rate	Power Level Setting		
Test Modes		Lowest Channel	Middle Channel	Highest Channel
802.11b	1Mbps	11	11	12
802.11g	6Mbps	4	4	4
802.11n ht20	MCS0	4	4	4

The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.

For BLE:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.				
Equipment Modifications:	No	No			
EUT Exercise Software:	Engineering	Engineering			
The software "Engineering "wa below, that was provided by the	The software " Engineering "was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲:				
Test Modes	Power Level Setting				
Test Wodes	Lowest Channel Middle Channel Highest Channel				
BLE	default default default				

1.2.2 Support Equipment List and Details

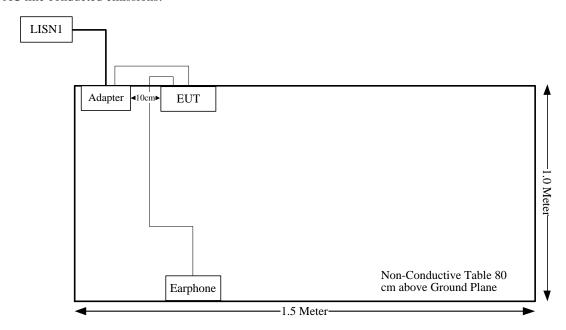
Manufacturer	Manufacturer Description		Serial Number	
/	/ /		/	

1.2.3 Support Cable List and Details

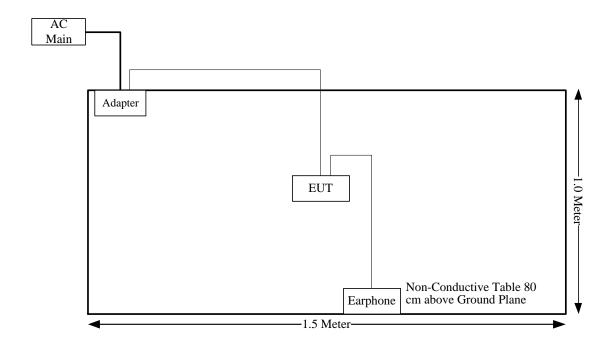
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
USB Cable	No	No	0.8	Adapter	EUT

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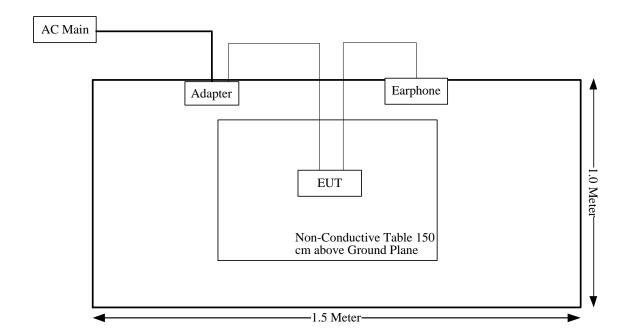
1.2.4 Block Diagram of Test Setup AC line conducted emissions:



Spurious Emissions: Below 1GHz:



Above 1GHz:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty		
Occupied Channel Bandwidth	±5 %		
RF output power, conducted	±0.61dB		
Power Spectral Density, conducted	±0.61 dB		
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB,		
Offwanted Emissions, fadiated	6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB		
Unwanted Emissions, conducted	±1.26 dB		
Temperature	±1 °C		
Humidity	±5%		
DC and low frequency voltages	±0.4%		
Duty Cycle	1%		
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)		

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC line conducted emissions	Compliant
\$15.205, \$15.209, \$15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant
FCC §15.247 (i) & §1.1307 & §2.1093	RF Exposure Evaluation	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC §15.207(a).

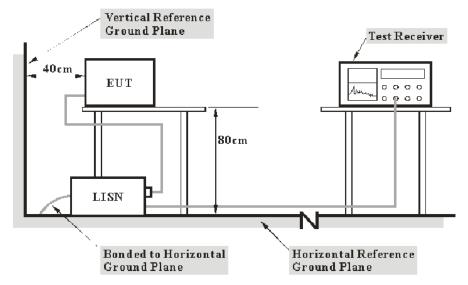
(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a $50 \,\mu\text{H}/50$ ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

	Conducted limit (dBµV)	
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

- (b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:
- (1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 $\mu H/50$ ohms LISN.
- (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.
- (c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



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Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

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3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.2 Radiation Spurious Emissions

3.2.1 Applicable Standard

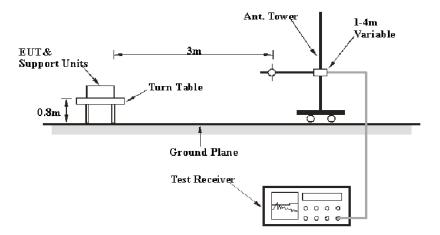
FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

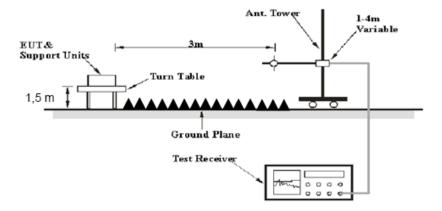
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3.2.2 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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The spacing between the peripherals was 10 cm.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

30-1000MHz:

Measurement	RBW	Video B/W	IF B/W	
QP	120 kHz	300 kHz	120kHz	

1GHz-25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
Avia	>98%	1MHz	10 Hz
Ave.	<98%	1MHz	1/T

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.3 6 dB Emission Bandwidth:

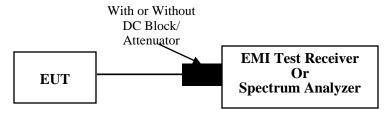
3.3.1 Applicable Standard

FCC §15.247 (a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

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3.3.2 EUT Setup



3.3.3Test Procedure

According to ANSI C63.10-2013 Section 11.8

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times RBW$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.4 Maximum conducted output power:

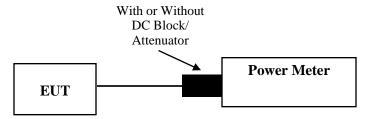
3.4.1 Applicable Standard

FCC §15.247 (b)(3)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

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3.4.2 EUT Setup



3.4.3Test Procedure

According to ANSI C63.10-2013 Section 11.9.1.3

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

- a) Set the EUT in transmitting mode.
- b) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to test equipment.
- c) Add a correction factor to the display.
- d) Set the power meter to test output power, record the result.

3.5 Maximum power spectral density:

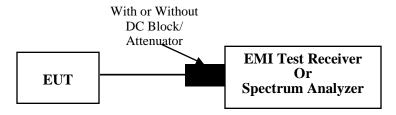
3.5.1 Applicable Standard

FCC §15.247 (e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

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3.5.2 EUT Setup



3.5.3Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \cdot RBW]$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

3.6 100 kHz Bandwidth of Frequency Band Edge:

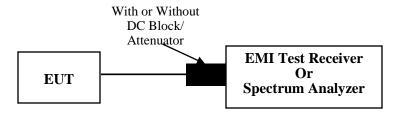
3.6.1 Applicable Standard

FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

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3.6.2 EUT Setup



3.6.3 Test Procedure

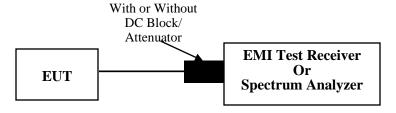
According to ANSI C63.10-2013 Section 11.11

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

3.7 Duty Cycle:

3.7.1 EUT Setup



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3.7.2Test Procedure

According to ANSI C63.10-2013 Section 11.6

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

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value.
- 3) Set VBW \geq RBW. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \le 16.7 \,\mu s$.)

3.8 Antenna Requirement

3.8.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.8.2 Judgment

Please refer to the Antenna Information detail in Section 1.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	CR22060051-RF-S1	Test Date:	2022-07-06
Test Site:	CE	Test Mode:	Transmitting (802.11b Middle channel was the worst)
Tester:	Vic Du	Test Result:	Pass

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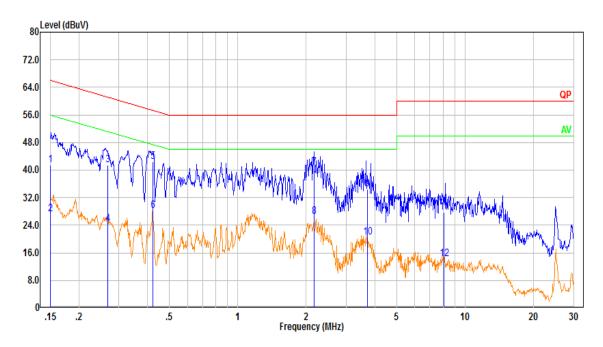
E	Environmental Conditions:							
	Temperature: $(^{\circ}\mathbb{C})$	28.5	Relative Humidity: (%)	73	ATM Pressure: (kPa)	100.0		

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2022-04-01	2023-03-31
R&S	EMI Test Receiver	ESR3	102726	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2021-08-08	2022-08-07
Audix	Test Software	E3	190306 (V9)	N/A	N/A

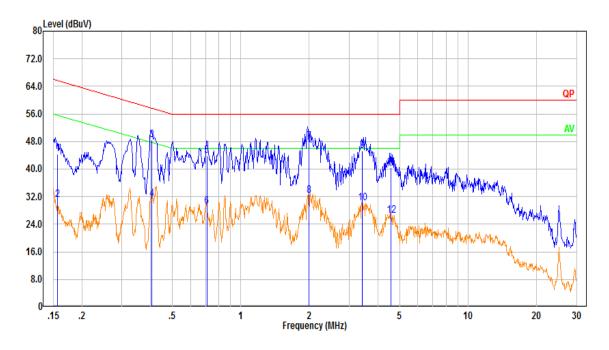
^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Line:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.150	31.90	9.61	41.51	66.00	24.49	QP
2	0.150	17.71	9.61	27.32	56.00	28.68	Average
3	0.267	31.95	9.61	41.56	61.20	19.64	QP
4	0.267	14.84	9.61	24.45	51.20	26.75	Average
5	0.423	32.81	9.61	42.42	57.40	14.98	QP
6	0.423	18.61	9.61	28.22	47.40	19.18	Average
7	2.168	31.17	9.63	40.80	56.00	15.20	QP
8	2.168	16.84	9.63	26.48	46.00	19.52	Average
9	3.722	24.91	9.65	34.56	56.00	21.44	QP
10	3.722	10.86	9.65	20.51	46.00	25.49	Average
11	8.066	18.05	9.67	27.72	60.00	32.28	QP
12	8.066	4.67	9.67	14.34	50.00	35.66	Average

Neutral:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.156	34.68	9.61	44.29	65.67	21.38	QP
2	0.156	21.53	9.61	31.14	55.67	24.53	Average
3	0.405	38.78	9.61	48.39	57.76	9.37	QP
4	0.405	21.83	9.61	31.44	47.76	16.32	Average
5	0.708	34.16	9.62	43.78	56.00	12.22	QP
6	0.708	19.56	9.62	29.18	46.00	16.82	Average
7	1.997	38.44	9.63	48.07	56.00	7.93	QP
8	1.997	22.73	9.63	32.36	46.00	13.64	Average
9	3.415	35.58	9.65	45.23	56.00	10.77	QP
10	3.415	20.57	9.65	30.22	46.00	15.78	Average
11	4.574	30.75	9.66	40.41	56.00	15.59	QP
12	4.574	16.88	9.66	26.54	46.00	19.46	Average

4.2 Radiation Spurious Emissions

Serial Number:	CR22060051-RF-S1	Test Date:	2022-07-07~2022-07-08
Test Site:	966-1,966-2	Test Mode:	Transmitting
Tester:	Gary Ling, Nick Tang	Test Result:	Pass

Report No.: CR22060051-00A

Environmental Conditions:							
Temperature: $(^{\circ}\mathbb{C})$	24.8~27.3	Relative Humidity: (%)	53~62	ATM Pressure: (kPa)	100.2		

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
Audix	Test Software	E3	201021 (V9)	N/A	N/A
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UFA210A-1- 1200-70U300	217423-008	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFA210A-1- 2362-300300	235780-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-11-10	2022-11-09
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2024-02-04
AH	Preamplifier	PAM-1840VH	190	2021-11-19	2022-11-18
MICRO-COAX	Coaxial Cable	UFB142A-1- 2362-200200	235772-001	2021-08-08	2022-08-07
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2021-08-08	2022-08-07
Mini Circuits	High Pass Filter	VHF-6010+	31119	2021-08-08	2022-08-07

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

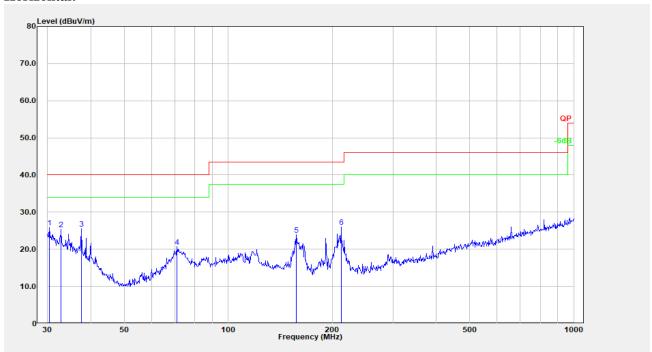
Test Data:

Please refer to the below table and plots.

Note: The device can be mounted in multiple orientations, test was performed with X,Y, Z Axis according to C63.10 Figure 8, the worst orientation was photographed and it's data was recorded.

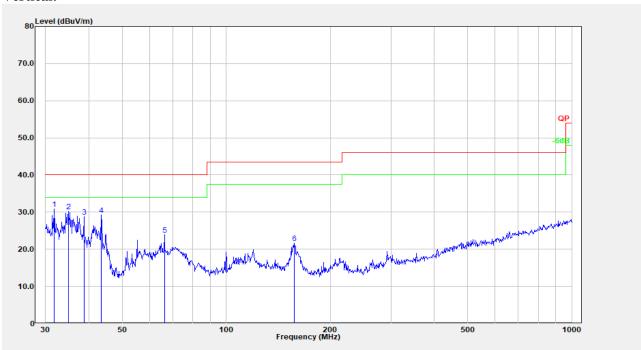
1) 30MHz-1GHz(802.11b Low channel was the worst)

Horizontal:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	30.317	29.90	-4.03	25.87	40.00	14.13	Peak
2	32.864	31.46	-6.01	25.45	40.00	14.55	Peak
3	37.548	35.13	-9.58	25.55	40.00	14.45	Peak
4	71.080	37.58	-16.84	20.74	40.00	19.26	Peak
5	157.559	36.20	-12.31	23.89	43.50	19.61	Peak
6	212.270	38.73	-12.69	26.04	43.50	17.46	Peak

Vertical:



No.	Frequency	Reading	Factor	Result	Limit	Margin	Detector
	(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	
1	31.731	35.96	-5.12	30.84	40.00	9.16	Peak
2	34.882	37.82	-7.57	30.25	40.00	9.75	Peak
3	38.752	39.35	-10.52	28.84	40.00	11.16	Peak
4	43.506	42.84	-13.61	29.23	40.00	10.77	Peak
5	66.266	41.01	-17.07	23.94	40.00	16.06	Peak
6	157.559	33.95	-12.31	21.64	43.50	21.86	Peak

2) 1-25GHz: 802.11b Mode:

.	Rece	eiver	D.I	T. 4	D 14	T,	34 .
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
			Low Char	nnel: 2412 MH	Z		
2412.00	63.37	PK	Н	31.53	94.90	N/A	N/A
2412.00	60.56	AV	Н	31.53	92.09	N/A	N/A
2412.00	62.89	PK	V	31.53	94.42	N/A	N/A
2412.00	59.17	AV	V	31.53	90.70	N/A	N/A
2390.00	28.39	PK	Н	31.46	59.85	74.00	14.15
2390.00	13.83	AV	Н	31.46	45.29	54.00	8.71
4824.00	42.32	PK	Н	10.94	53.26	74.00	20.74
4824.00	38.19	AV	Н	10.94	49.13	54.00	4.87
7236.00	40.20	PK	Н	14.44	54.64	74.00	19.36
7236.00	32.24	AV	Н	14.44	46.68	54.00	7.32
]	Middle Cha	annel: 2437 MI	Hz		
2437.00	65.14	PK	Н	31.60	96.74	N/A	N/A
2437.00	62.44	AV	Н	31.60	94.04	N/A	N/A
2437.00	64.93	PK	V	31.60	96.53	N/A	N/A
2437.00	62.09	AV	V	31.60	93.69	N/A	N/A
4874.00	41.75	PK	Н	11.05	52.80	74.00	21.20
4874.00	37.85	AV	Н	11.05	48.90	54.00	5.10
7311.00	41.49	PK	Н	14.80	56.29	74.00	17.71
7311.00	35.65	AV	Н	14.80	50.45	54.00	3.55
			High Cha	nnel: 2462MH	Z		
2462.00	67.32	PK	Н	31.63	98.95	N/A	N/A
2462.00	64.67	AV	Н	31.63	96.30	N/A	N/A
2462.00	66.79	PK	V	31.63	98.42	N/A	N/A
2462.00	64.08	AV	V	31.63	95.71	N/A	N/A
2483.50	27.71	PK	Н	31.64	59.35	74.00	14.65
2483.50	14.25	AV	Н	31.64	45.89	54.00	8.11
4924.00	42.56	PK	Н	11.18	53.74	74.00	20.26
4924.00	37.27	AV	Н	11.18	48.45	54.00	5.55
7386.00	40.18	PK	Н	14.89	55.07	74.00	18.93
7386.00	31.50	AV	Н	14.89	46.39	54.00	7.61

802.11g Mode:

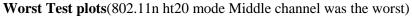
02.11g Wlode.	Reco	eiver	D 1	T .	D 1/	T,	3.6
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
			Low Char	nnel: 2412 MH	Z		
2412.00	70.44	PK	Н	31.53	101.97	N/A	N/A
2412.00	59.96	AV	Н	31.53	91.49	N/A	N/A
2412.00	69.96	PK	V	31.53	101.49	N/A	N/A
2412.00	59.25	AV	V	31.53	90.78	N/A	N/A
2390.00	38.35	PK	Н	31.46	69.81	74.00	4.19
2390.00	19.07	AV	Н	31.46	50.53	54.00	3.47
4824.00	49.66	PK	Н	10.94	60.60	74.00	13.40
4824.00	35.97	AV	Н	10.94	46.91	54.00	7.09
7236.00	49.76	PK	Н	14.44	64.20	74.00	9.80
7236.00	35.38	AV	Н	14.44	49.82	54.00	4.18
		I	Middle Cha	annel: 2437 MI	Hz	•	
2437.00	68.32	PK	Н	31.60	99.92	N/A	N/A
2437.00	57.63	AV	Н	31.60	89.23	N/A	N/A
2437.00	67.57	PK	V	31.60	99.17	N/A	N/A
2437.00	57.72	AV	V	31.60	89.32	N/A	N/A
4874.00	47.68	PK	Н	11.05	58.73	74.00	15.27
4874.00	31.12	AV	Н	11.05	42.17	54.00	11.83
7311.00	48.46	PK	Н	14.80	63.26	74.00	10.74
7311.00	34.14	AV	Н	14.80	48.94	54.00	5.06
			High Cha	nnel: 2462MH	Z		
2462.00	68.94	PK	Н	31.63	100.57	N/A	N/A
2462.00	58.42	AV	Н	31.63	90.05	N/A	N/A
2462.00	67.98	PK	V	31.63	99.61	N/A	N/A
2462.00	57.86	AV	V	31.63	89.49	N/A	N/A
2483.50	39.02	PK	Н	31.64	70.66	74.00	3.34
2483.50	20.02	AV	Н	31.64	51.66	54.00	2.34
4924.00	43.16	PK	Н	11.18	54.34	74.00	19.66
4924.00	27.68	AV	Н	11.18	38.86	54.00	15.14
7386.00	46.94	PK	Н	14.89	61.83	74.00	12.17
7386.00	31.22	AV	Н	14.89	46.11	54.00	7.89

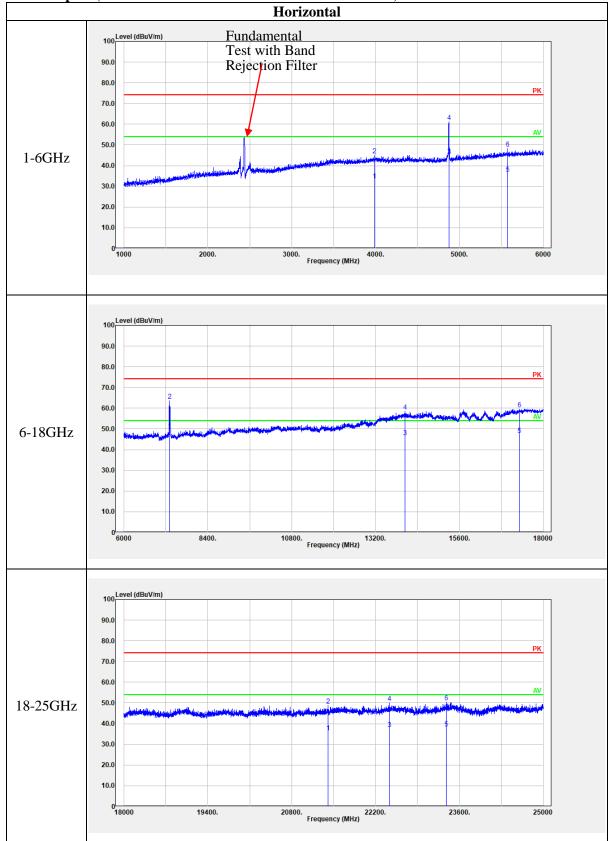
802.11n ht20 Mode:

	Rece	eiver	D 1	5 7 4	D 1/	T,	3.5
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
			Low Char	nnel: 2412 MH	Z		
2412.00	70.45	PK	Н	31.53	101.98	N/A	N/A
2412.00	59.27	AV	Н	31.53	90.80	N/A	N/A
2412.00	68.10	PK	V	31.53	99.63	N/A	N/A
2412.00	57.40	AV	V	31.53	88.93	N/A	N/A
2390.00	39.02	PK	Н	31.46	70.48	74.00	3.52
2390.00	19.16	AV	Н	31.46	50.62	54.00	3.38
4824.00	50.09	PK	Н	10.94	61.03	74.00	12.97
4824.00	33.38	AV	Н	10.94	44.32	54.00	9.68
7236.00	48.01	PK	Н	14.44	62.45	74.00	11.55
7236.00	31.23	AV	Н	14.44	45.67	54.00	8.33
		I	Middle Cha	annel: 2437 MI	Iz		
2437.00	71.69	PK	Н	31.60	103.29	N/A	N/A
2437.00	61.78	AV	Н	31.60	93.38	N/A	N/A
2437.00	67.95	PK	V	31.60	99.55	N/A	N/A
2437.00	57.98	AV	V	31.60	89.58	N/A	N/A
4874.00	50.93	PK	Н	11.05	61.98	74.00	12.02
4874.00	34.78	AV	Н	11.05	45.83	54.00	8.17
7311.00	50.45	PK	Н	14.80	65.25	74.00	8.75
7311.00	35.99	AV	Н	14.80	50.79	54.00	3.21
			High Cha	nnel: 2462MH	Z		
2462.00	70.39	PK	Н	31.63	102.02	N/A	N/A
2462.00	59.93	AV	Н	31.63	91.56	N/A	N/A
2462.00	66.82	PK	V	31.63	98.45	N/A	N/A
2462.00	56.90	AV	V	31.63	88.53	N/A	N/A
2483.50	38.00	PK	Н	31.64	69.64	74.00	4.36
2483.50	18.81	AV	Н	31.64	50.45	54.00	3.55
4924.00	48.56	PK	Н	11.18	59.74	74.00	14.26
4924.00	32.39	AV	Н	11.18	43.57	54.00	10.43
7386.00	47.89	PK	Н	14.89	62.78	74.00	11.22
7386.00	33.26	AV	Н	14.89	48.15	54.00	5.85

BLE:

E.	Rece	eiver	ъ.	5 7 4	D 1/	T,	3.6
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
			Low Char	nnel: 2402 MH	Z		
2402.00	63.67	PK	V	31.51	95.18	N/A	N/A
2402.00	60.15	AV	V	31.51	91.66	N/A	N/A
2402.00	63.73	PK	Н	31.51	95.24	N/A	N/A
2402.00	60.31	AV	Н	31.51	91.82	N/A	N/A
2390.00	26.88	PK	Н	31.46	58.34	74.00	15.66
2390.00	13.86	AV	Н	31.46	45.32	54.00	8.68
4804.00	37.31	PK	Н	10.91	48.22	74.00	25.78
4804.00	26.11	AV	Н	10.91	37.02	54.00	16.98
7206.00	34.87	PK	Н	14.22	49.09	74.00	24.91
7206.00	22.59	AV	Н	14.22	36.81	54.00	17.19
		1	Middle Cha	annel: 2440 MI	Hz		
2440.00	61.44	PK	V	31.60	93.04	N/A	N/A
2440.00	57.82	AV	V	31.60	89.42	N/A	N/A
2440.00	61.60	PK	Н	31.60	93.20	N/A	N/A
2440.00	57.90	AV	Н	31.60	89.50	N/A	N/A
4880.00	36.87	PK	Н	11.07	47.94	74.00	26.06
4880.00	24.15	AV	Н	11.07	35.22	54.00	18.78
7320.00	34.05	PK	Н	14.80	48.85	74.00	25.15
7320.00	21.90	AV	Н	14.80	36.70	54.00	17.30
			High Char	nnel: 2480 MH	Z		
2480.00	59.13	PK	V	31.64	90.77	N/A	N/A
2480.00	55.28	AV	V	31.64	86.92	N/A	N/A
2480.00	59.22	PK	Н	31.64	90.86	N/A	N/A
2480.00	55.37	AV	Н	31.64	87.01	N/A	N/A
2483.50	28.05	PK	Н	31.64	59.69	74.00	14.31
2483.50	14.24	AV	Н	31.64	45.88	54.00	8.12
4960.00	35.88	PK	Н	11.23	47.11	74.00	26.89
4960.00	23.26	AV	Н	11.23	34.49	54.00	19.51
7440.00	33.81	PK	Н	15.26	49.07	74.00	24.93
7440.00	21.04	AV	Н	15.26	36.30	54.00	17.70





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4.3 6 dB Emission Bandwidth:

Serial Number:	CR22060051-RF-S1	Test Date:	2022/7/15-2022/7/16
Test Site:	RF	Test Mode:	Transmitting
Tester:	Julie Tan	Test Result:	Pass

Report No.: CR22060051-00A

Environmental Conditions:							
Temperature: $(^{\circ}\mathbb{C})$	25.8-27.9	Relative Humidity: (%)	40-66	ATM Pressure: (kPa)	100.1-100.2		

Test Equipment List and Details:

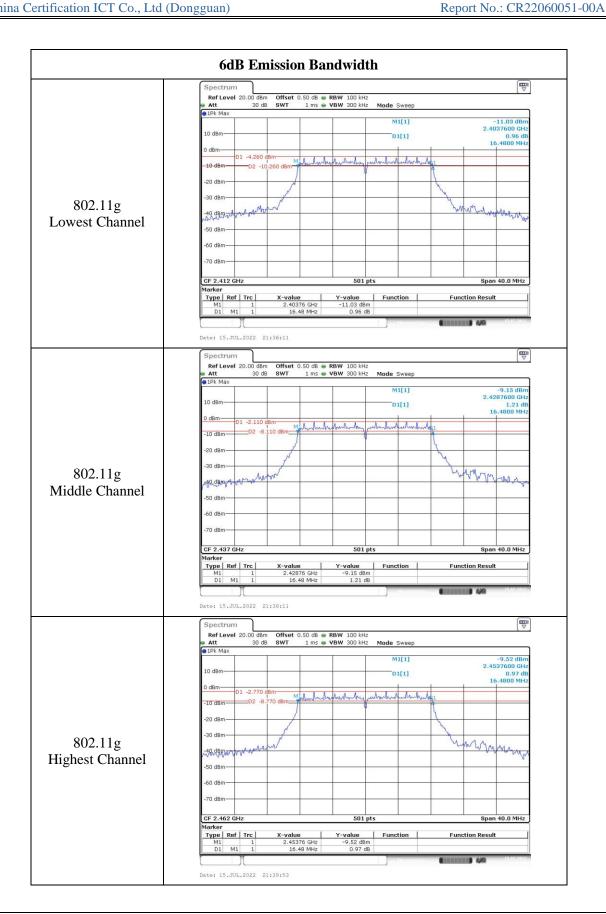
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

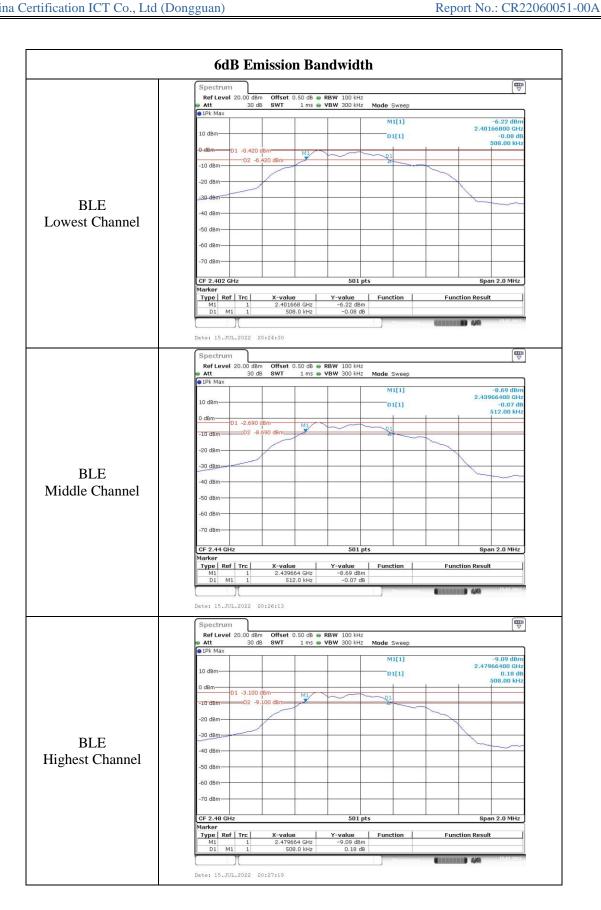
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
	2412	9.069	0.5
802.11b	2437	8.640	0.5
	2462	9.040	0.5
	2412	16.480	0.5
802.11g	2437	16.480	0.5
	2462	16.480	0.5
	2412	17.440	0.5
802.11n ht20	2437	17.520	0.5
	2462	16.480	0.5
	2402	0.508	0.5
BLE	2440	0.512	0.5
	2480	0.508	0.5

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4.4 Maximum conducted output power:

Serial Number:	CR22060051-RF-S1	Test Date:	2022/7/15-2022/7/16
Test Site:	RF	Test Mode:	Transmitting
Tester:	Julie Tan	Test Result:	Pass

Report No.: CR22060051-00A

Environmental Conditions:					
Temperature: $(^{\circ}\mathbb{C})$	25.8-27.9	Relative Humidity: (%)	40-66	ATM Pressure: (kPa)	100.1-100.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2021XA	MY54080015	2021-07-22	2022-07-21
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes	Test Channel	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Maximum Conducted Average Output Power (dBm)	Limit (dBm)
	Lowest	2412	11.05	7.69	30
802.11b	Middle	2437	12.82	9.42	30
	Highest	2462	12.87	9.51	30
	Lowest	2412	20.24	7.68	30
802.11g	Middle	2437	20.21	7.67	30
	Highest	2462	21.01	9.08	30
	Lowest	2412	21.27	9.58	30
802.11n ht20	Middle	2437	20.47	8.81	30
	Highest	2462	19.55	7.43	30
	Lowest	2402	-0.15	/	30
BLE	Middle	2440	-2.32	/	30
	Highest	2480	-2.70	/	30

4.5 Maximum power spectral density:

Serial Number:	CR22060051-RF-S1	Test Date:	2022/7/15-2022/7/16
Test Site:	RF	Test Mode:	Transmitting
Tester:	Julie Tan	Test Result:	Pass

Report No.: CR22060051-00A

Environmental Conditions:					
Temperature: $(^{\circ}\mathbb{C})$	25.8-27.9	Relative Humidity: (%)	40-66	ATM Pressure: (kPa)	100.1-100.2

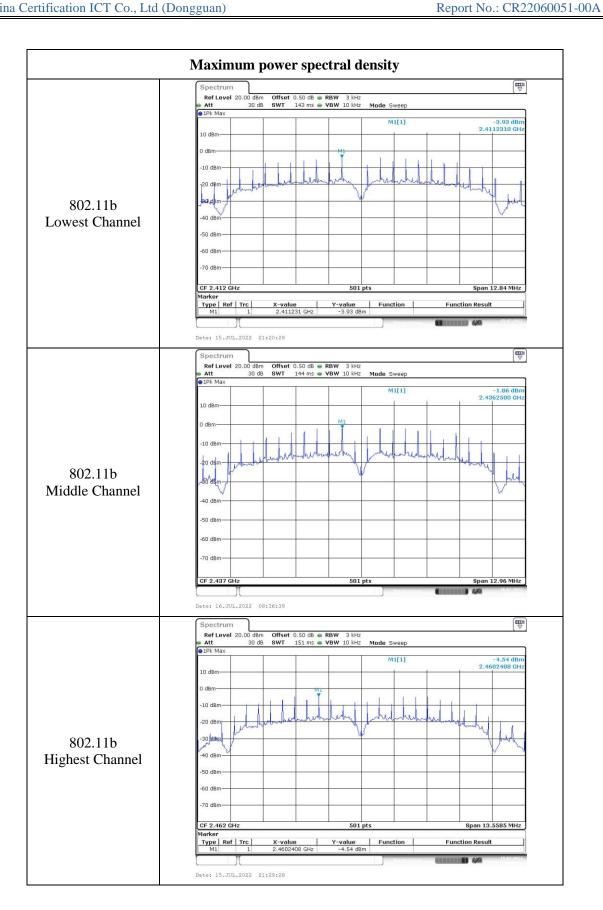
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

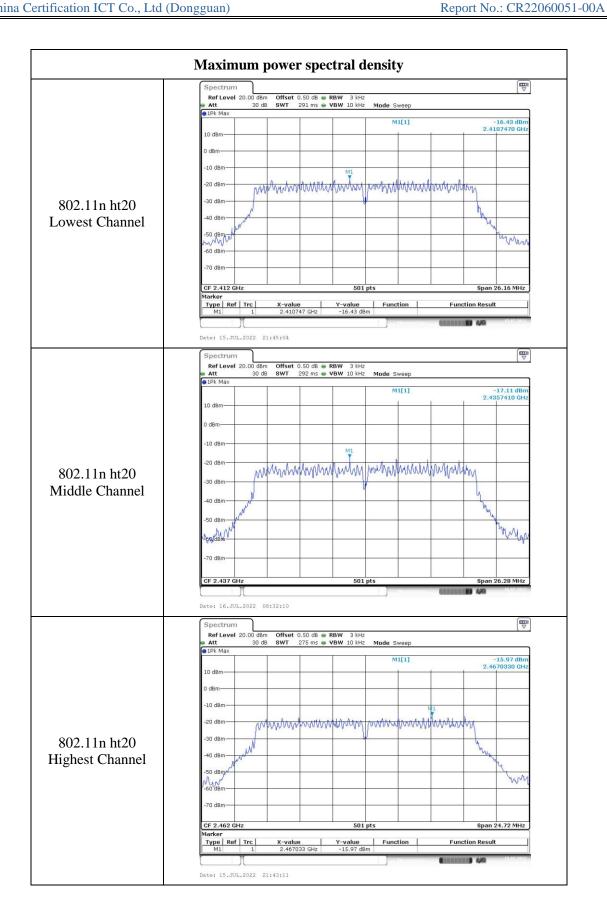
Test Data:

Test Channel	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
	2412	-3.93	8.00
802.11b	2437	-1.86	8.00
	2462	-4.54	8.00
	2412	-18.16	8.00
802.11g	2437	-15.84	8.00
	2462	-16.97	8.00
	2412	-16.43	8.00
802.11n ht20	2437	-17.11	8.00
	2462	-15.97	8.00
	2402	-17.07	8.00
BLE	2440	-19.28	8.00
	2480	-19.65	8.00

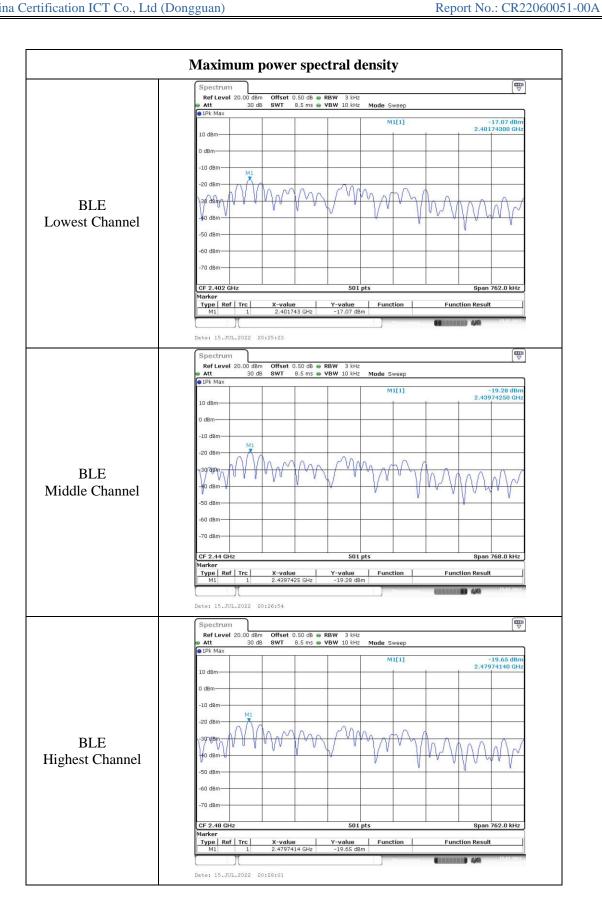


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4.6 100 kHz Bandwidth of Frequency Band Edge:

Serial Number:	CR22060051-RF-S1	Test Date:	2022/7/15-2022/7/16
Test Site:	RF	Test Mode:	Transmitting
Tester:	Julie Tan	Test Result:	Pass

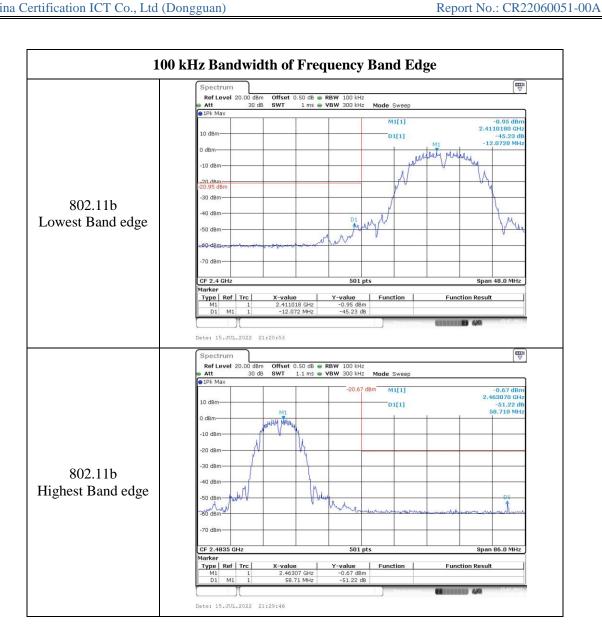
Report No.: CR22060051-00A

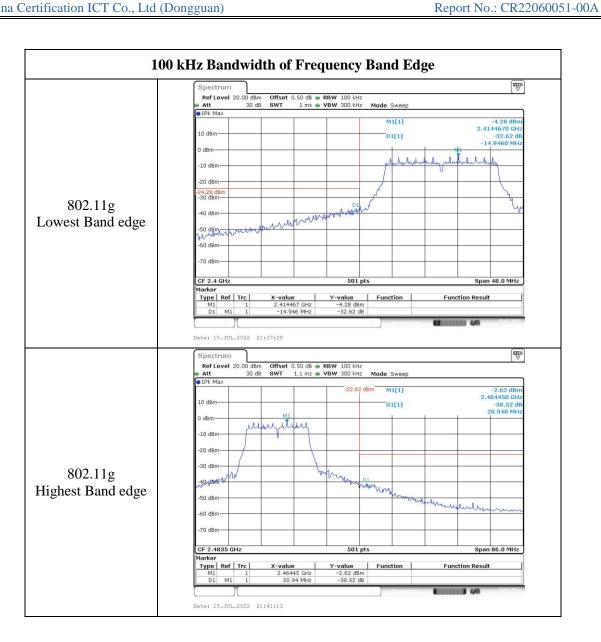
Environmental Conditions:					
Temperature: $(^{\circ}\mathbb{C})$	25.8-27.9	Relative Humidity: (%)	40-66	ATM Pressure: (kPa)	100.1-100.2

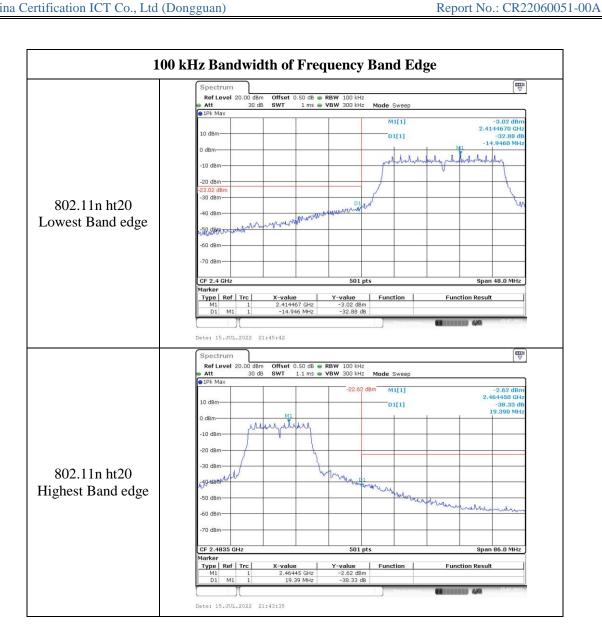
Test Equipment List and Details:

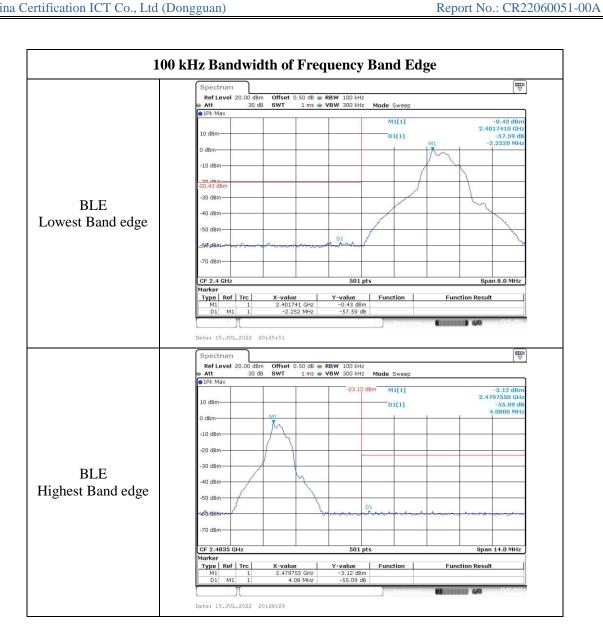
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).









4.7 Duty Cycle:

Serial Number:	CR22060051-RF-S1	Test Date:	2022/7/15-2022/7/16
Test Site:	RF	Test Mode:	Transmitting
Tester:	Julie Tan	Test Result:	N/A

Report No.: CR22060051-00A

Environmental Conditions:					
Temperature: $(^{\circ}C)$	25.8-27.9	Relative Humidity: (%)	40-66	ATM Pressure: (kPa)	100.1-100.2

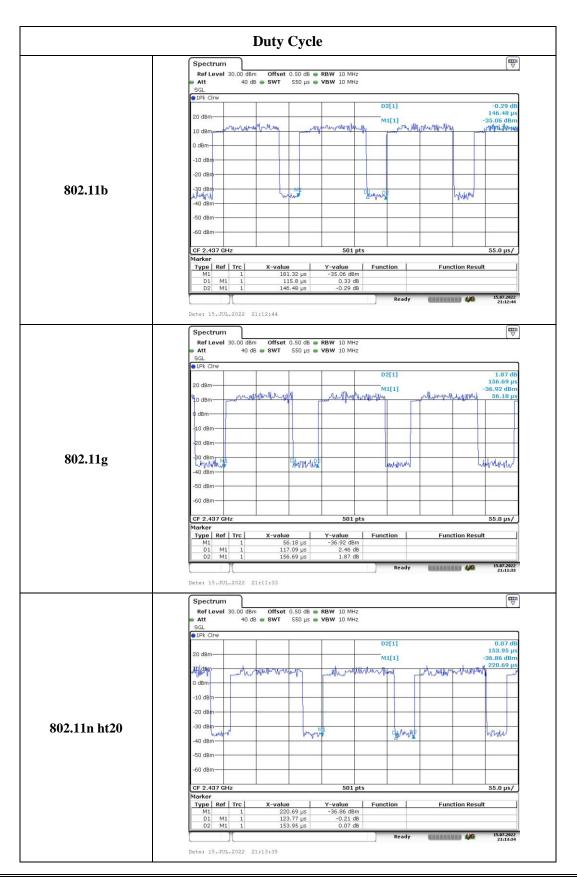
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
Mini-Circuits	DC Block	BLK-18-S+	1554404	2021-08-08	2022-08-07
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A

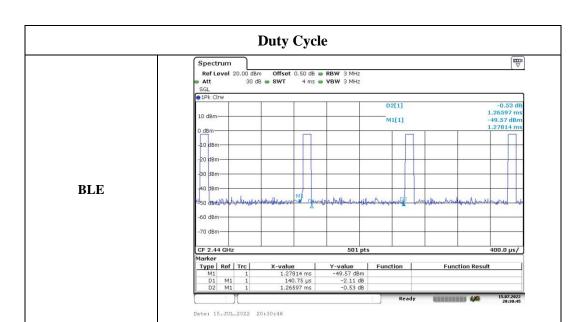
^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)
802.11b	0.116	0.146	79.45
802.11g	0.117	0.157	74.52
802.11n ht20	0.124	0.154	80.52
BLE	0.141	1.266	11.14



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5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

FCC §15.247 (i)

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See \$1.1307(b)(1) of this chapter.

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5.2 Procedure

According to 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.2- 1-mW Test Exemption:

Per §1.1307(b)(3)(i)(A), a single RF source is *exempt RF device* (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

5.3 Measurement Result

For BLE:

Frequency	Conducted output up 7	1-mW Test	
(MHz)	(dBm)	(mW)	Exemption
2402-2480	0	1	Compliant

Note: Antenna gain is -0.98dBi.

Result: Compliant. RF Exposure is exemption.

Wi-Fi:

Result: Compliance. Please refer to the SAR report: CR22060051-20A.

===== END OF REPORT =====