



TEST REPORT

Applicant: Sun Cupid Technology (HK) Ltd.

Address: 16/F,CEO Tower,77 Wing Hong Street,Cheung Sha Wan,Kowloon,Hong Kong.

FCC ID: 2ADINN5005L

Product Name: LTE PDA

Model Number: N5005L, Tab 5, NUU Tab 5

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 compliance with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR21090086-00B

Date Of Issue: 2021-10-21

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Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

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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.

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.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	LTE PDA
EUT Model:	N5005L
Multiple Model:	Tab 5, NUU Tab 5
Operation Frequency:	2412-2462 MHz(802.11b/g/n ht20), 2422-2452 MHz(802.11n ht40) 2402-2480MHz(BLE)
Maximum Peak Output Power (Conducted):	16.98 dBm(802.11b/g/n) -3.15 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:	CR21090086-RF-S1
EUT Received Date:	2021.09.28
EUT Received Status:	Good

Note: The Multiple models are identical with Test model, please refer to the declaration letter for more detail, which was provided by manufacturer.

Operation Frequency Detail:

For 802.11b/g/n ht20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

Per section 15.31(m), the lowest frequency, middle frequency, and highest frequency were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2412
Middle	2437
Highest	2462

For 802.11n ht40:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	7	2442
4	2427	8	2447
5	2432	9	2452
6	2437	/	/

Per section 15.31(m), the lowest frequency, middle frequency, and highest frequency were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2422
Middle	2437
Highest	2452

For BLE:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404
...
...
..	...	38	2478
19	2440	39	2480

Per section 15.31(m), the lowest frequency, middle frequency, and highest frequency were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2402
Middle	2440
Highest	2480

Antenna Information Detail▲:

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range	§15.203 Requirement
Sun Cupid Technology (HK) Ltd.	FPC	50	0 dBi/2.4~2.5GHz	Compliance

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
USB Cable	Unknown	Unknown	Un-shield, 0.8 m
Adapter	Dongguan Aohai Power Technology Co.,Ltd	A8A-050200U-US1	Input: 100-240V~50/60Hz 0.35A Output: 5V 2A

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		
The software "Engineering" was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲:				
Test Modes	Data Rate	Power Level Setting		
		Lowest Channel	Middle Channel	Highest Channel
802.11b	1Mbps	19.5	19.5	19.5
802.11g	6Mbps	11	11	11
802.11n ht20	MCS0	11	11	11
802.11n ht40	MCS0	13	13	13
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		
EUT Exercise Software:		Engineering		
The software "Engineering" was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲:				
Test Modes	Data Rate	Power Level Setting		
		Lowest Channel	Middle Channel	Highest Channel
	1Mbps	Default	Default	Default

1.2.2 Support Equipment List and Details

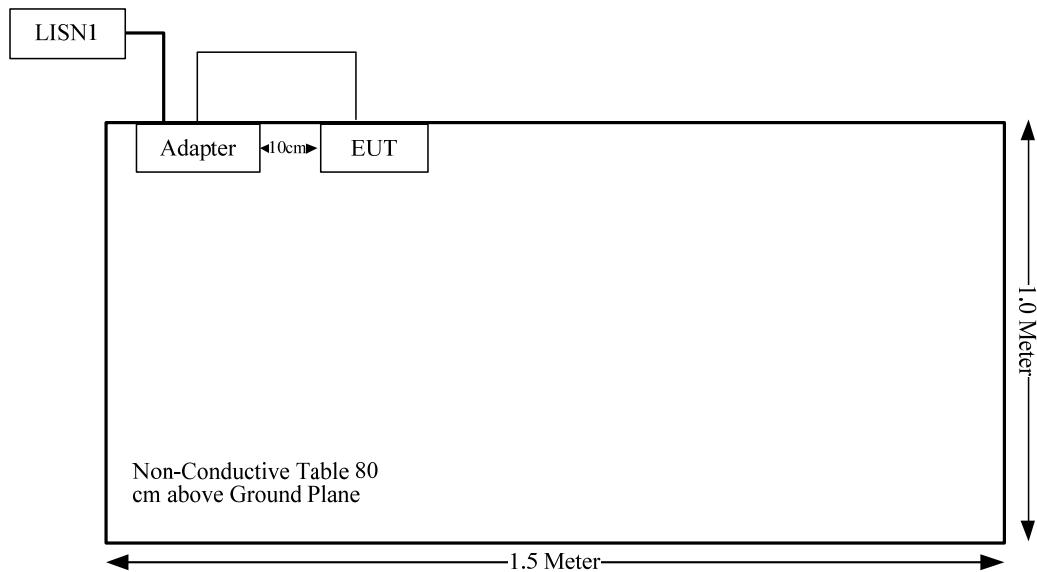
Manufacturer	Description	Model	Serial Number
/	/	/	/

1.2.3 Support Cable List and Details

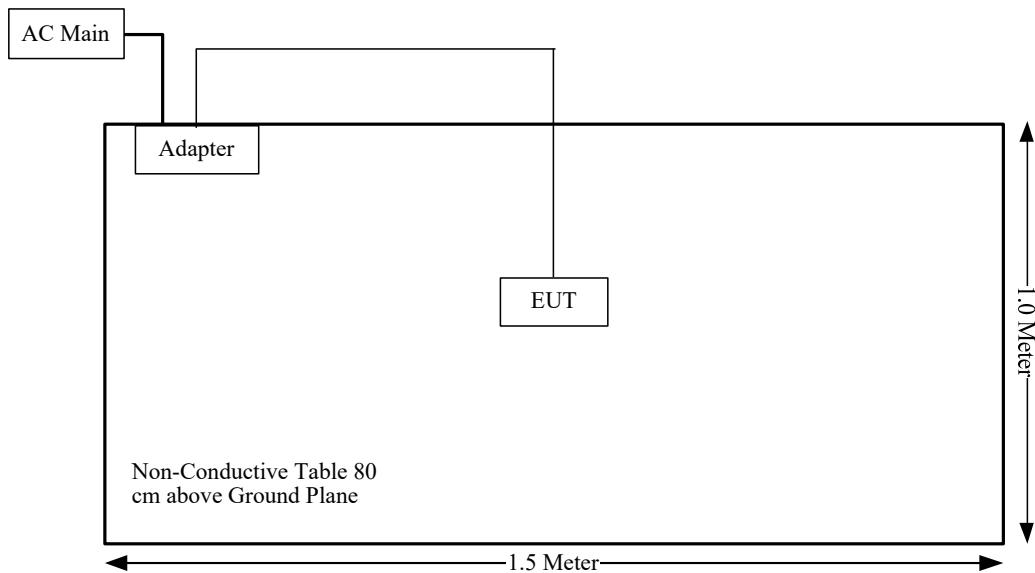
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	0.8	Adapter	EUT

1.2.4 Block Diagram of Test Setup

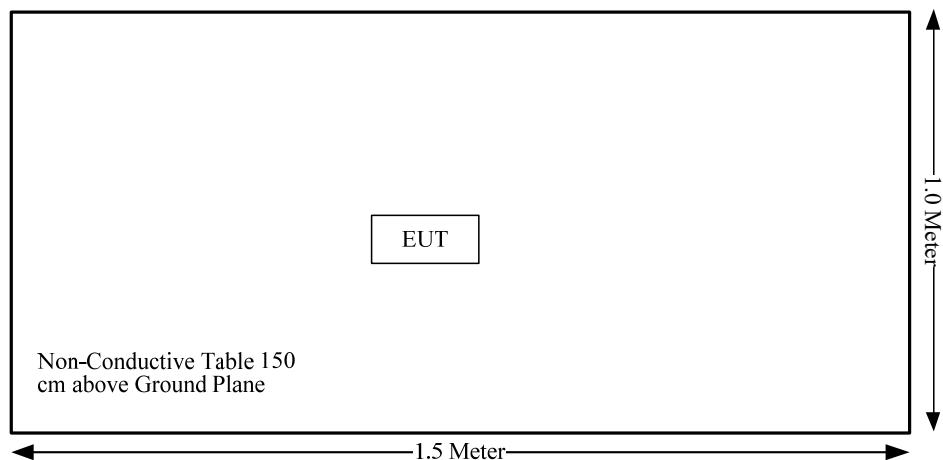
AC line conducted emissions:



Spurious emissions Below 1GHz:



Spurious emissions 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, 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	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.203	Antenna Requirement	Compliance
§15.247 (i) & §1.1310 & §2.1093	RF Exposure	Compliance

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 μ 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.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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:

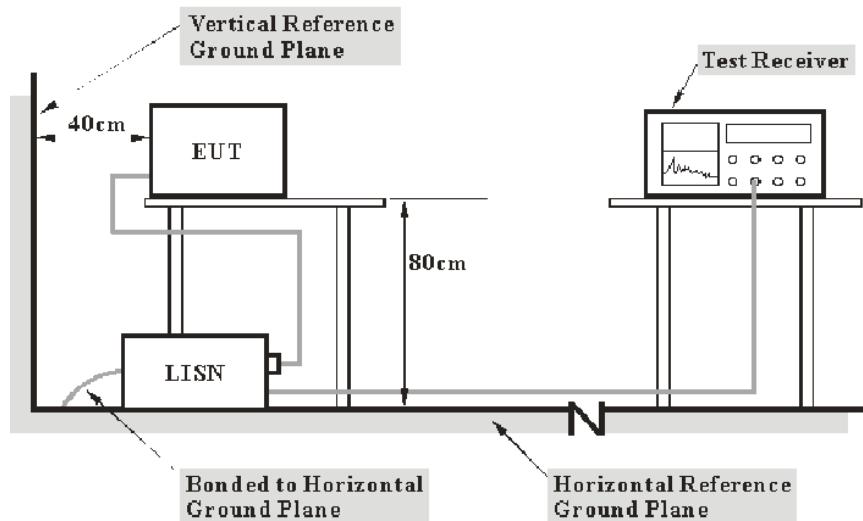
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ 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



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.

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

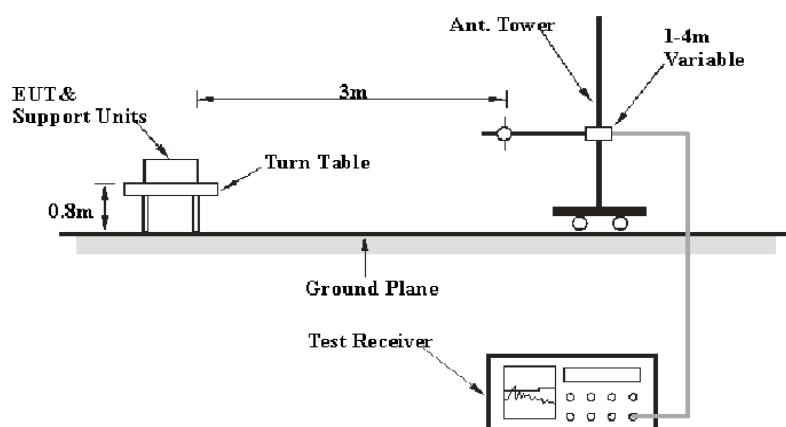
3.2.1 Applicable Standard

FCC §15.247 (d);

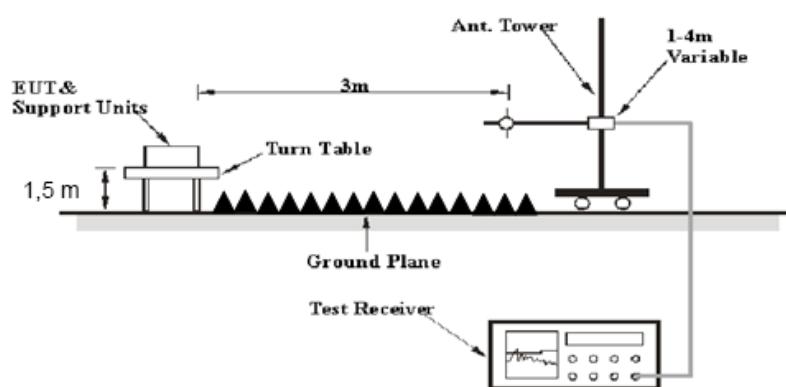
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

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.

The spacing between the peripherals was 10 cm.

For portable device, test should be performed at X.Y.Z Axis:

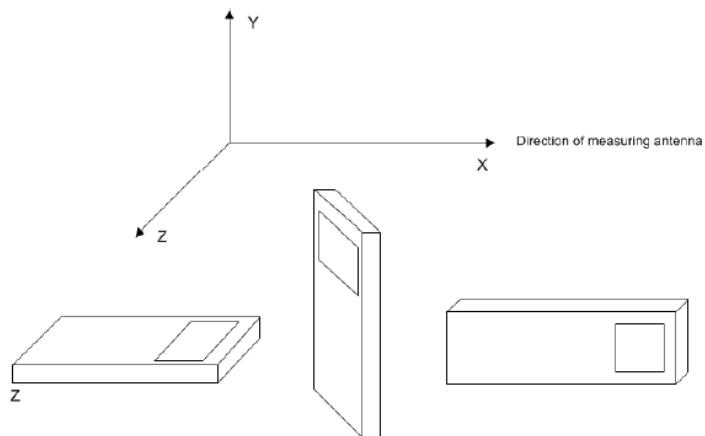


Figure 8—EUT configuration positions (see 6.3.1)

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:

30MHz-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
AV	>98%	1MHz	10 Hz
	<98%	1MHz	1/T

Note: T is minimum transmission duration

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

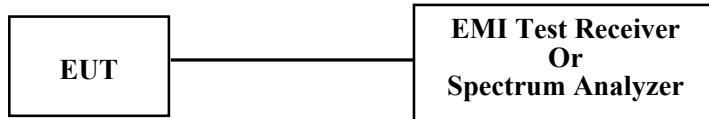
3.3 6 dB Emission Bandwidth:

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.

3.3.2 EUT Setup



3.3.3 Test Procedure

According to ANSI C63.10-2013 Section 11.8

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- 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.

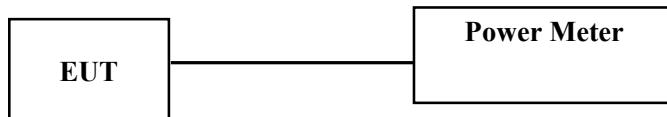
3.4 Maximum peak conducted output power:

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.

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak 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 peak 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.

3.5.2 EUT Setup



3.5.3 Test 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 $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \cdot \text{RBW}]$.
- 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)).

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



3.7.2 Test 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 $T \leq 16.7 \mu\text{s}$.)

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:	CR21090086-RF-S1	Test Date:	2021-10-07
Test Site:	CE	Test Mode:	Transmitting (802.11b Middle channel was the worst)
Tester:	Alex Hu	Test Result:	Pass

Environmental Conditions:

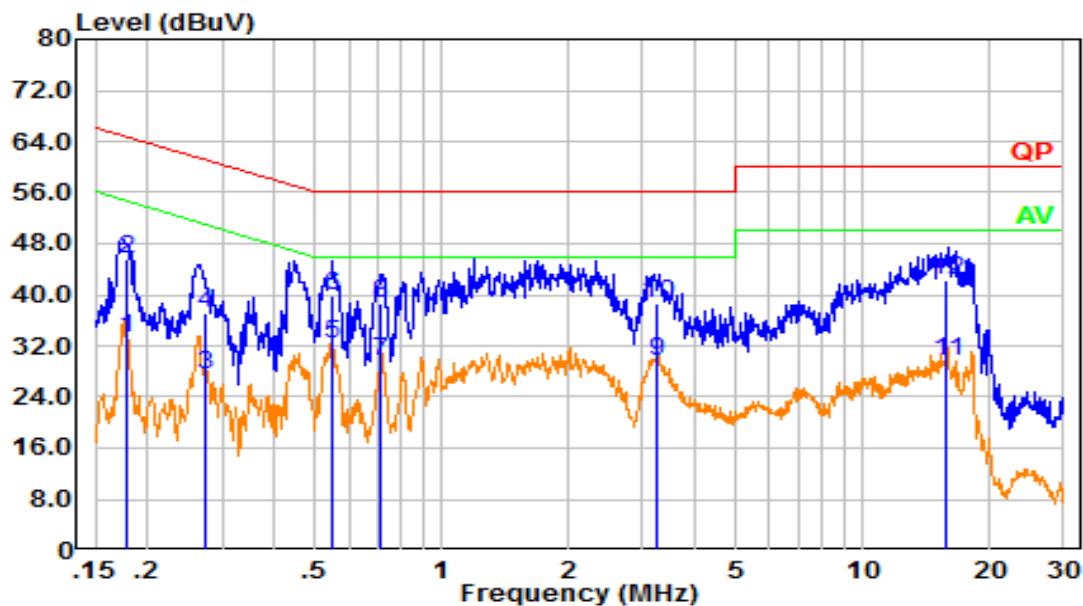
Temperature: (°C)	25	Relative Humidity: (%)	72	ATM Pressure: (kPa)	100.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2021-04-25	2022-04-24
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

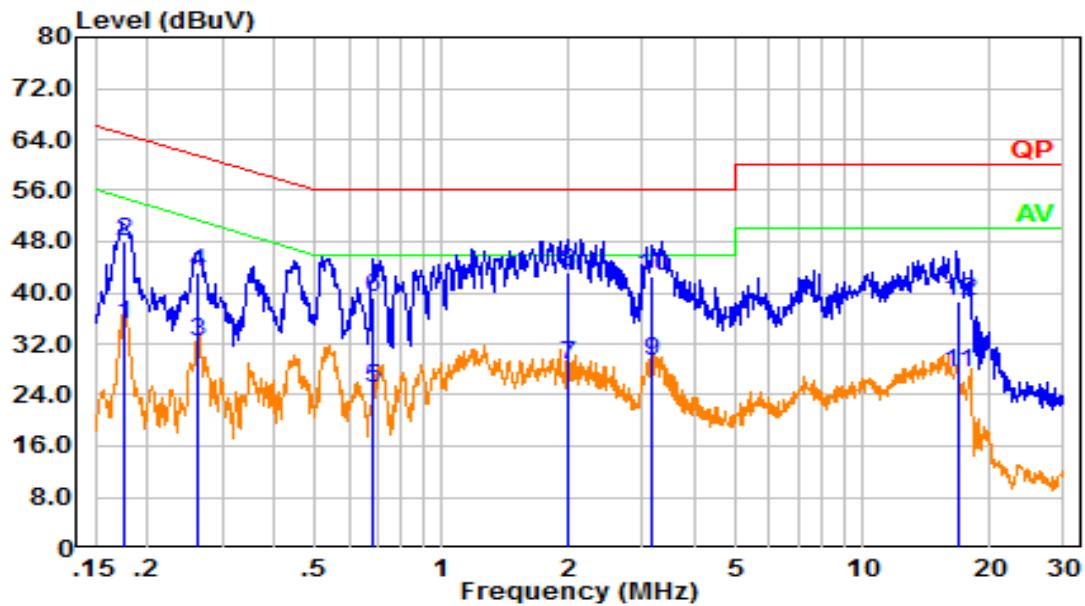
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Line:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.178	23.65	9.61	33.26	54.58	21.32	Average
2	0.178	35.90	9.61	45.51	64.58	19.07	QP
3	0.274	17.79	9.61	27.40	51.01	23.61	Average
4	0.274	27.41	9.61	37.02	61.01	23.98	QP
5	0.545	22.71	9.61	32.33	46.00	13.67	Average
6	0.545	30.36	9.61	39.97	56.00	16.03	QP
7	0.718	19.86	9.62	29.48	46.00	16.52	Average
8	0.718	28.91	9.62	38.53	56.00	17.47	QP
9	3.255	20.04	9.65	29.69	46.00	16.31	Average
10	3.255	28.87	9.65	38.52	56.00	17.48	QP
11	15.809	19.93	9.71	29.64	50.00	20.36	Average
12	15.809	32.59	9.71	42.30	60.00	17.70	QP

Neutral:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.176	25.46	9.61	35.07	54.66	19.59	Average
2	0.176	38.30	9.61	47.91	64.66	16.75	QP
3	0.264	22.74	9.61	32.35	51.31	18.97	Average
4	0.264	33.53	9.61	43.14	61.31	18.18	QP
5	0.689	15.36	9.62	24.98	46.00	21.02	Average
6	0.689	29.71	9.62	39.33	56.00	16.67	QP
7	1.989	19.02	9.63	28.65	46.00	17.35	Average
8	1.989	33.62	9.63	43.25	56.00	12.75	QP
9	3.163	19.66	9.65	29.31	46.00	16.69	Average
10	3.163	33.06	9.65	42.71	56.00	13.29	QP
11	16.890	17.73	9.69	27.42	50.00	22.58	Average
12	16.890	28.93	9.69	38.62	60.00	21.38	QP

4.2 Radiation Spurious Emissions

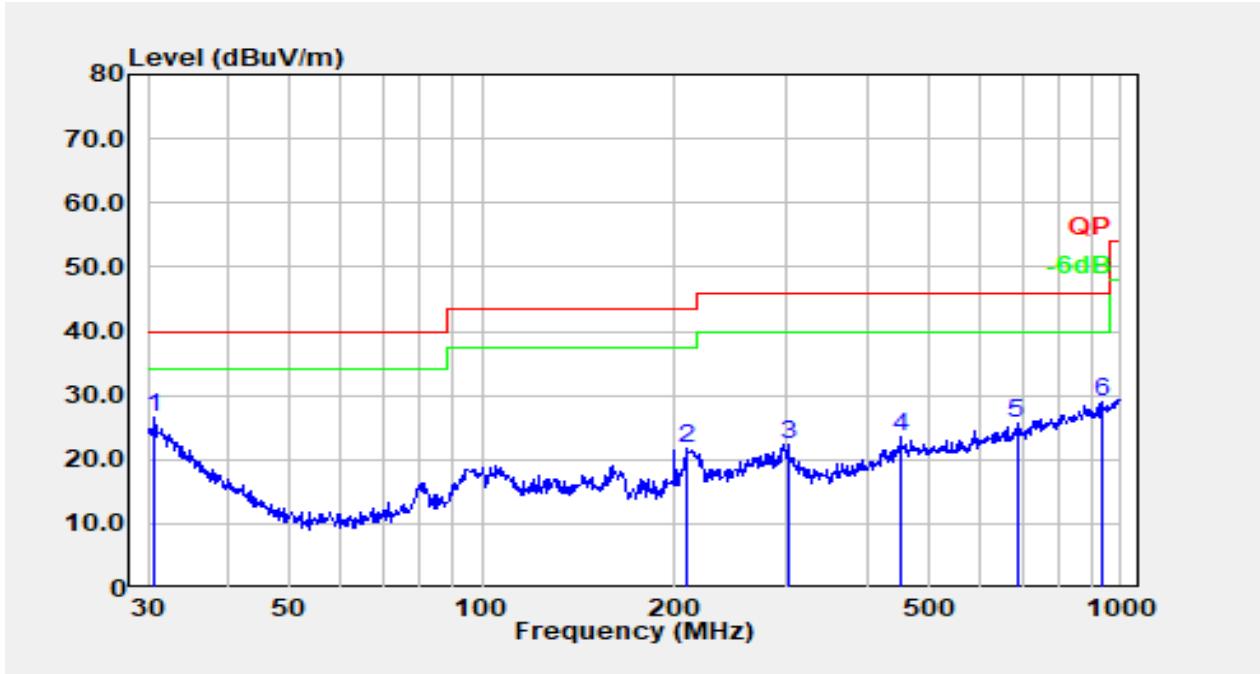
Serial Number:	CR21090086-RF-S1	Test Date:	2021-10-07~2021-10-13
Test Site:	966-1,966-2	Test Mode:	Transmitting
Tester:	Alex Hu, Elan Lv	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	26.2~28.7	Relative Humidity: (%)	65~66	ATM Pressure: (kPa)	100.7~101.1

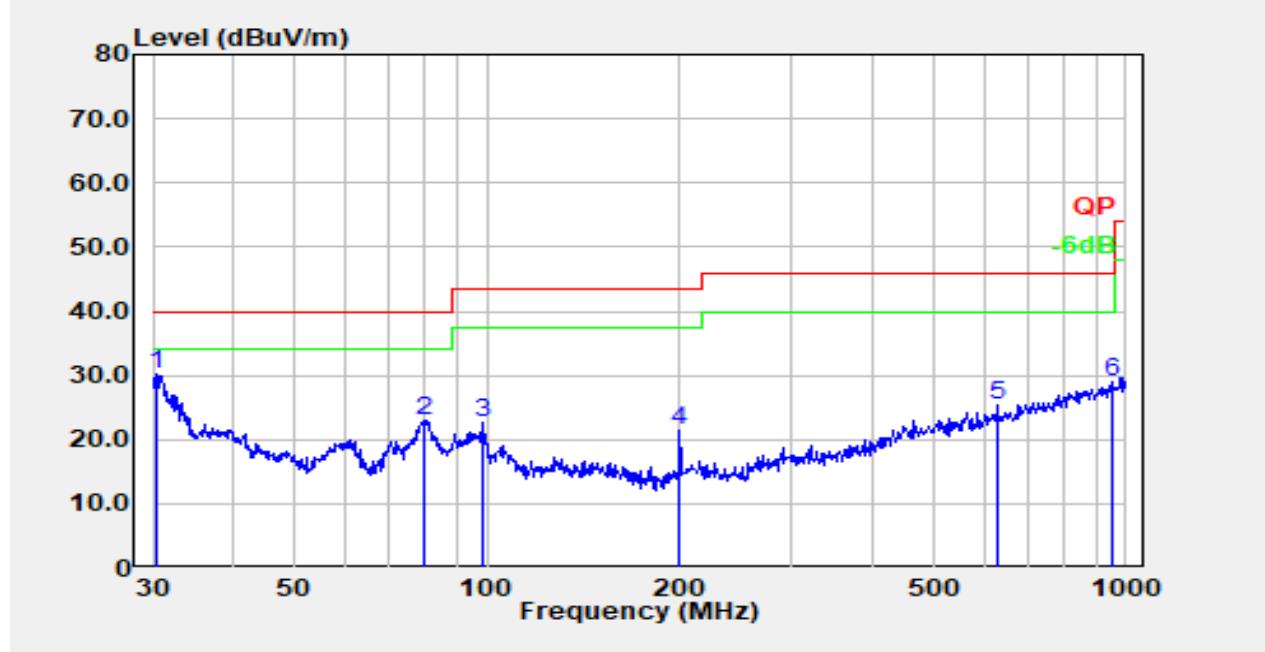
Test Equipment List and Details:

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	2021-08-08	2022-08-07
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2023-02-04
AH	Preamplifier	PAM-1840VH	190	2020-11-20	2021-11-19
Mini Circuits	High Pass Filter	VHF-6010+	31119	2021-08-08	2022-08-07
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	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).

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

No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	30.745	30.92	-4.36	26.55	40.00	13.45	Peak
2	210.048	34.33	-12.60	21.72	43.50	21.78	Peak
3	301.422	33.26	-10.80	22.46	46.00	23.54	Peak
4	452.720	30.65	-7.08	23.58	46.00	22.42	Peak
5	687.151	29.49	-3.78	25.71	46.00	20.29	Peak
6	935.546	29.75	-0.71	29.04	46.00	16.96	Peak

Vertical:

No.	Frequency (MHz)	Reading (dB _u V)	Factor (dB/m)	Result (dB _u V/m)	Limit (dB _u V/m)	Margin (dB)	Detector
1	30.424	34.30	-4.12	30.18	40.00	9.82	Peak
2	79.800	40.78	-17.69	23.09	40.00	16.91	Peak
3	98.487	37.54	-14.93	22.61	43.50	20.89	Peak
4	199.986	33.79	-12.37	21.42	43.50	22.08	Peak
5	629.477	30.27	-4.92	25.35	46.00	20.65	Peak
6	948.761	29.37	-0.42	28.95	46.00	17.05	Peak

2) 1-25GHz:
802.11b Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 2412 MHz							
2412.00	74.92	PK	H	31.53	106.45	N/A	N/A
2412.00	69.14	AV	H	31.53	100.67	N/A	N/A
2412.00	65.23	PK	V	31.53	96.76	N/A	N/A
2412.00	60.84	AV	V	31.53	92.37	N/A	N/A
2390.00	27.2	PK	H	31.46	58.66	74	15.34
2390.00	16.68	AV	H	31.46	48.14	54	5.86
4824.00	38.42	PK	H	10.59	49.01	74	24.99
4824.00	33.96	AV	H	10.59	44.55	54	9.45
7236.00	34.46	PK	H	14.11	48.57	74	25.43
7236.00	29.58	AV	H	14.11	43.69	54	10.31
Middle Channel: 2437 MHz							
2437.00	73.92	PK	H	31.59	105.51	N/A	N/A
2437.00	67.7	AV	H	31.59	99.29	N/A	N/A
2437.00	65.04	PK	V	31.59	96.63	N/A	N/A
2437.00	60.69	AV	V	31.59	92.28	N/A	N/A
4874.00	36.69	PK	H	10.51	47.2	74	26.80
4874.00	31.57	AV	H	10.51	42.08	54	11.92
7311.00	33.52	PK	H	14.29	47.81	74	26.19
7311.00	28.47	AV	H	14.29	42.76	54	11.24
High Channel: 2462MHz							
2462.00	73.93	PK	H	31.63	105.56	N/A	N/A
2462.00	68.74	AV	H	31.63	100.37	N/A	N/A
2462.00	63.73	PK	V	31.63	95.36	N/A	N/A
2462.00	59.47	AV	V	31.63	91.1	N/A	N/A
2483.50	28.69	PK	H	31.65	60.34	74	13.66
2483.50	17.33	AV	H	31.65	48.98	54	5.02
4924.00	37.03	PK	H	10.68	47.71	74	26.29
4924.00	31.84	AV	H	10.68	42.52	54	11.48
7386.00	33.63	PK	H	14.49	48.12	74	25.88
7386.00	28.25	AV	H	14.49	42.74	54	11.26

802.11g Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 2412 MHz							
2412.00	70.51	PK	H	31.53	102.04	N/A	N/A
2412.00	61.82	AV	H	31.53	93.35	N/A	N/A
2412.00	64.57	PK	V	31.53	96.1	N/A	N/A
2412.00	55.97	AV	V	31.53	87.5	N/A	N/A
2390.00	28.7	PK	H	31.46	60.16	74	13.84
2390.00	17.13	AV	H	31.46	48.59	54	5.41
4824.00	34.31	PK	H	10.59	44.9	74	29.10
4824.00	24.85	AV	H	10.59	35.44	54	18.56
7236.00	33.09	PK	H	14.11	47.2	74	26.80
7236.00	23.29	AV	H	14.11	37.4	54	16.60
Middle Channel: 2437 MHz							
2437.00	73.27	PK	H	31.59	104.86	N/A	N/A
2437.00	65.21	AV	H	31.59	96.8	N/A	N/A
2437.00	65.36	PK	V	31.59	96.95	N/A	N/A
2437.00	57.09	AV	V	31.59	88.68	N/A	N/A
4874.00	35.69	PK	H	10.51	46.2	74	27.80
4874.00	25.31	AV	H	10.51	35.82	54	18.18
7311.00	33.75	PK	H	14.29	48.04	74	25.96
7311.00	23.84	AV	H	14.29	38.13	54	15.87
High Channel: 2462MHz							
2462.00	71.98	PK	H	31.63	103.61	N/A	N/A
2462.00	63.46	AV	H	31.63	95.09	N/A	N/A
2462.00	63.31	PK	V	31.63	94.94	N/A	N/A
2462.00	55.68	AV	V	31.63	87.31	N/A	N/A
2483.50	35.76	PK	H	31.65	67.41	74	6.59
2483.50	22.27	AV	H	31.65	53.92	54	0.08
4924.00	34.11	PK	H	10.68	44.79	74	29.21
4924.00	24.38	AV	H	10.68	35.06	54	18.94
7386.00	34.26	PK	H	14.49	48.75	74	25.25
7386.00	24.1	AV	H	14.49	38.59	54	15.41

802.11n ht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 2412 MHz							
2412.00	69.61	PK	H	31.53	101.14	N/A	N/A
2412.00	62.35	AV	H	31.53	93.88	N/A	N/A
2412.00	66.69	PK	V	31.53	98.22	N/A	N/A
2412.00	59.87	AV	V	31.53	91.4	N/A	N/A
2390.00	27.8	PK	H	31.46	59.26	74	14.74
2390.00	17.07	AV	H	31.46	48.53	54	5.47
4824.00	35.98	PK	H	10.59	46.57	74	27.43
4824.00	26.57	AV	H	10.59	37.16	54	16.84
7236.00	33.32	PK	H	14.11	47.43	74	26.57
7236.00	22.74	AV	H	14.11	36.85	54	17.15
Middle Channel: 2437 MHz							
2437.00	72.77	PK	H	31.59	104.36	N/A	N/A
2437.00	64.51	AV	H	31.59	96.1	N/A	N/A
2437.00	65.4	PK	V	31.59	96.99	N/A	N/A
2437.00	57.85	AV	V	31.59	89.44	N/A	N/A
4874.00	34.21	PK	H	10.51	44.72	74	29.28
4874.00	23.58	AV	H	10.51	34.09	54	19.91
7311.00	34.01	PK	H	14.29	48.3	74	25.70
7311.00	23.47	AV	H	14.29	37.76	54	16.24
High Channel: 2462MHz							
2462.00	70.13	PK	H	31.63	101.76	N/A	N/A
2462.00	60.83	AV	H	31.63	92.46	N/A	N/A
2462.00	64.35	PK	V	31.63	95.98	N/A	N/A
2462.00	55.94	AV	V	31.63	87.57	N/A	N/A
2483.50	33.85	PK	H	31.65	65.5	74	8.50
2483.50	20.3	AV	H	31.65	51.95	54	2.05
4924.00	34.81	PK	H	10.68	45.49	74	28.51
4924.00	23.58	AV	H	10.68	34.26	54	19.74
7386.00	33.29	PK	H	14.49	47.78	74	26.22
7386.00	22.58	AV	H	14.49	37.07	54	16.93

802.11n ht40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 2422 MHz							
2422.00	66.85	PK	H	31.55	98.4	N/A	N/A
2422.00	57.25	AV	H	31.55	88.8	N/A	N/A
2422.00	56.85	PK	V	31.55	88.4	N/A	N/A
2422.00	46.95	AV	V	31.55	78.5	N/A	N/A
2390.00	37.54	PK	H	31.46	69	74	5.00
2390.00	19.47	AV	H	31.46	50.93	54	3.07
4844.00	35.1	PK	H	10.54	45.64	74	28.36
4844.00	24.62	AV	H	10.54	35.16	54	18.84
7266.00	34.22	PK	H	14.22	48.44	74	25.56
7266.00	23.58	AV	H	14.22	37.8	54	16.20
Middle Channel: 2437 MHz							
2437.00	72.57	PK	H	31.59	104.16	N/A	N/A
2437.00	64.44	AV	H	31.59	96.03	N/A	N/A
2437.00	64.08	PK	V	31.59	95.67	N/A	N/A
2437.00	56.58	AV	V	31.59	88.17	N/A	N/A
4874.00	34.77	PK	H	10.51	45.28	74	28.72
4874.00	23.71	AV	H	10.51	34.22	54	19.78
7311.00	33.52	PK	H	14.29	47.81	74	26.19
7311.00	23.84	AV	H	14.29	38.13	54	15.87
High Channel: 2452MHz							
2452.00	69.85	PK	H	31.63	101.48	N/A	N/A
2452.00	62.15	AV	H	31.63	93.78	N/A	N/A
2452.00	62.85	PK	V	31.63	94.48	N/A	N/A
2452.00	55.74	AV	V	31.63	87.37	N/A	N/A
2483.50	39.79	PK	H	31.65	71.44	74	2.56
2483.50	21.84	AV	H	31.65	53.49	54	0.51
4904.00	34.3	PK	H	10.54	44.84	74	29.16
4904.00	23.95	AV	H	10.54	34.49	54	19.51
7356.00	33.36	PK	H	14.35	47.71	74	26.29
7356.00	22.18	AV	H	14.35	36.53	54	17.47

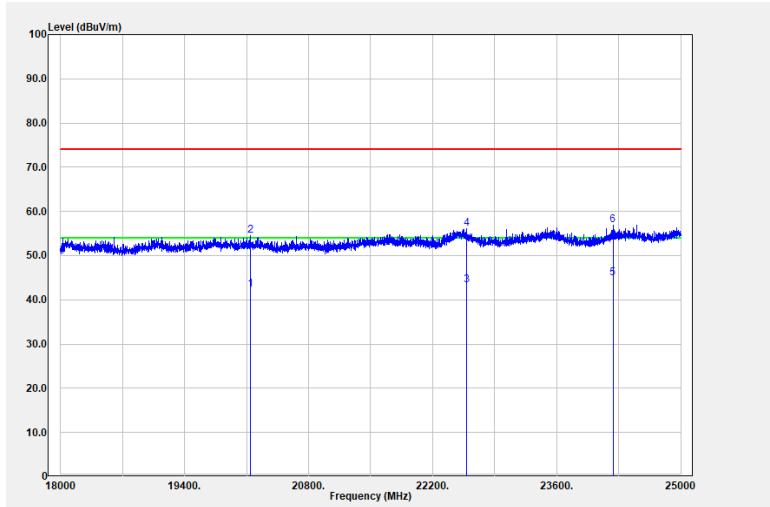
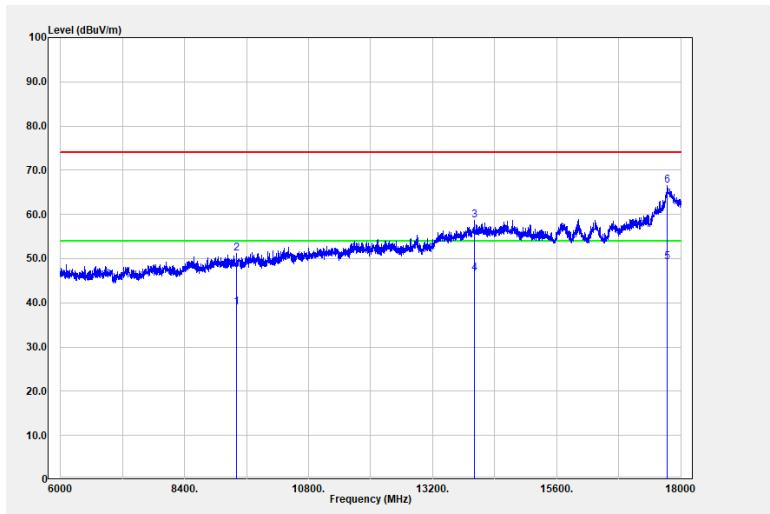
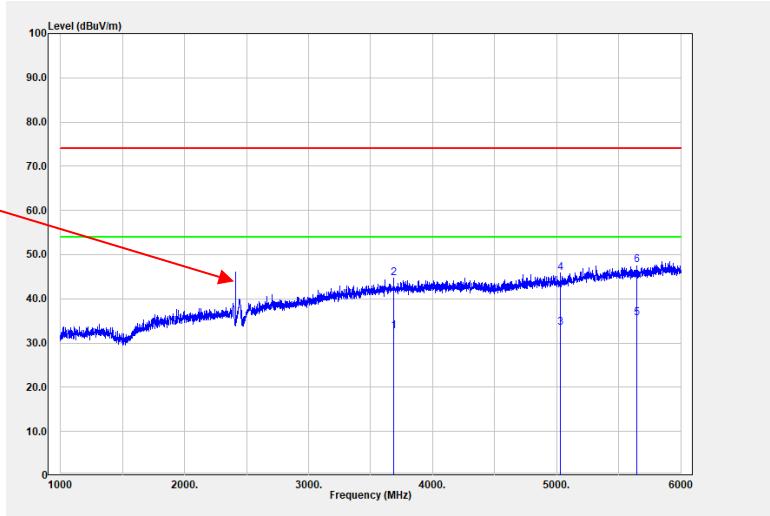
BLE Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector					
Low Channel: 2402 MHz							
2402.00	59.61	PK	H	31.50	91.11	N/A	N/A
2402.00	58.75	AV	H	31.50	90.25	N/A	N/A
2402.00	55.92	PK	V	31.50	87.42	N/A	N/A
2402.00	54.99	AV	V	31.50	86.49	N/A	N/A
2390.00	26.87	PK	H	31.46	58.33	74	15.67
2390.00	16.98	AV	H	31.46	48.44	54	5.56
4804.00	35.91	PK	H	10.64	46.55	74	27.45
4804.00	24.69	AV	H	10.64	35.33	54	18.67
7206.00	35.32	PK	H	13.96	49.28	74	24.72
7206.00	24.15	AV	H	13.96	38.11	54	15.89
Middle Channel: 2440 MHz							
2440.00	59.01	PK	H	31.60	90.61	N/A	N/A
2440.00	58.15	AV	H	31.60	89.75	N/A	N/A
2440.00	55.3	PK	V	31.60	86.9	N/A	N/A
2440.00	54.46	AV	V	31.60	86.06	N/A	N/A
4880.00	35.67	PK	H	10.51	46.18	74	27.82
4880.00	24.49	AV	H	10.51	35	54	19.00
7320.00	35.45	PK	H	14.31	49.76	74	24.24
7320.00	24.27	AV	H	14.31	38.58	54	15.42
High Channel: 2480 MHz							
2480.00	57.21	PK	H	31.64	88.85	N/A	N/A
2480.00	56.49	AV	H	31.64	88.13	N/A	N/A
2480.00	53.47	PK	V	31.64	85.11	N/A	N/A
2480.00	52.59	AV	V	31.64	84.23	N/A	N/A
2483.50	28.22	PK	H	31.65	59.87	74	14.13
2483.50	17.24	AV	H	31.65	48.89	54	5.11
4960.00	35.92	PK	H	10.92	46.84	74	27.16
4960.00	24.54	AV	H	10.92	35.46	54	18.54
7440.00	35.32	PK	H	14.80	50.12	74	23.88
7440.00	24.06	AV	H	14.80	38.86	54	15.14

Note: per pretest, the worst Axis is Y Axis and recorded.

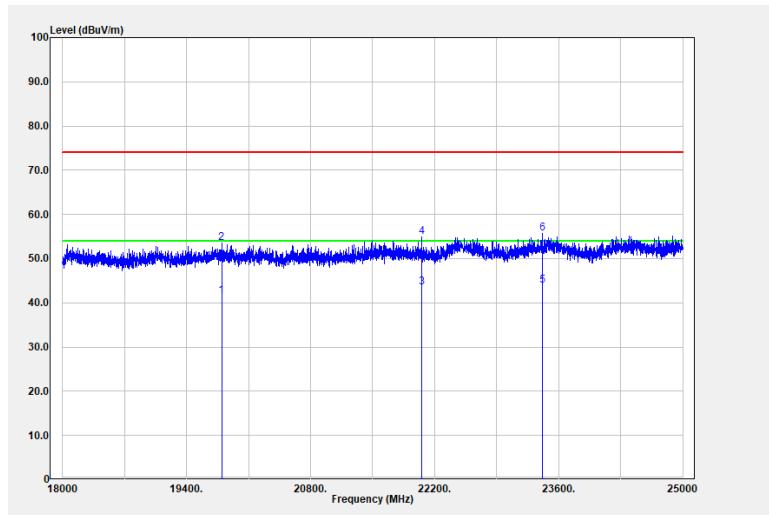
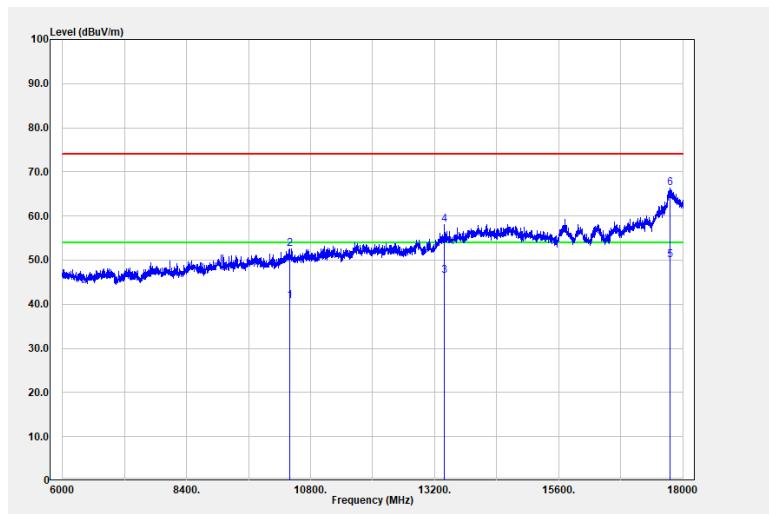
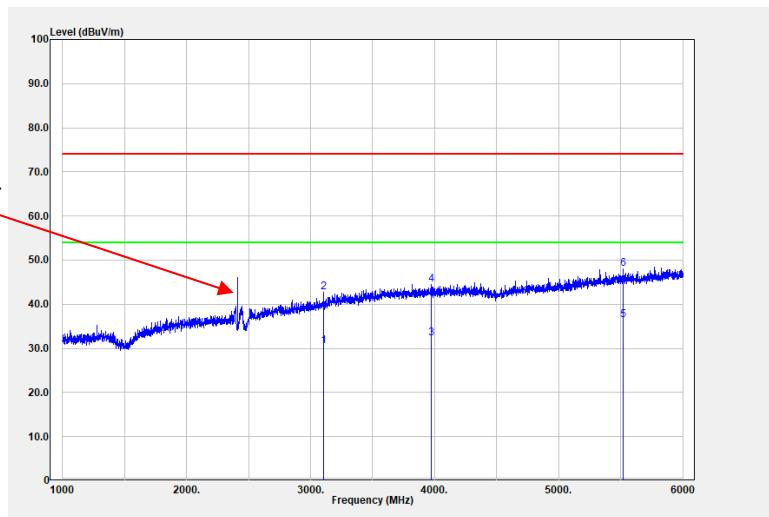
Worst Test plots(802.11b Low channel was the worst)
Horizontal:

Fundamental
Test with Band
Rejection Filter



Vertical:

Fundamental Test with Band Rejection Filter



4.3 6 dB Emission Bandwidth:

Serial Number:	CR21090086-RF-S1	Test Date:	2021-10-01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Le Qiao	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2

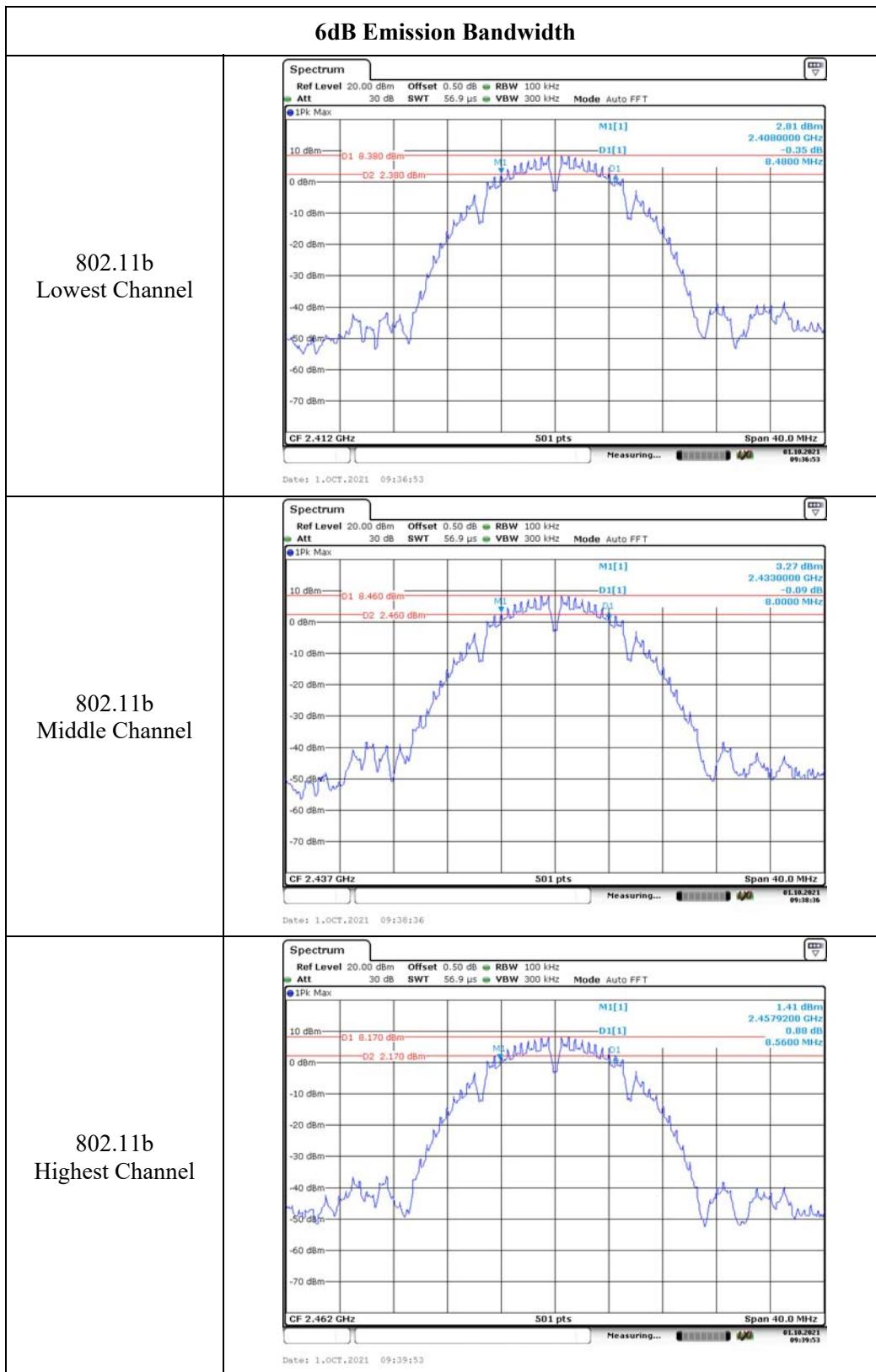
Test Equipment List and Details:

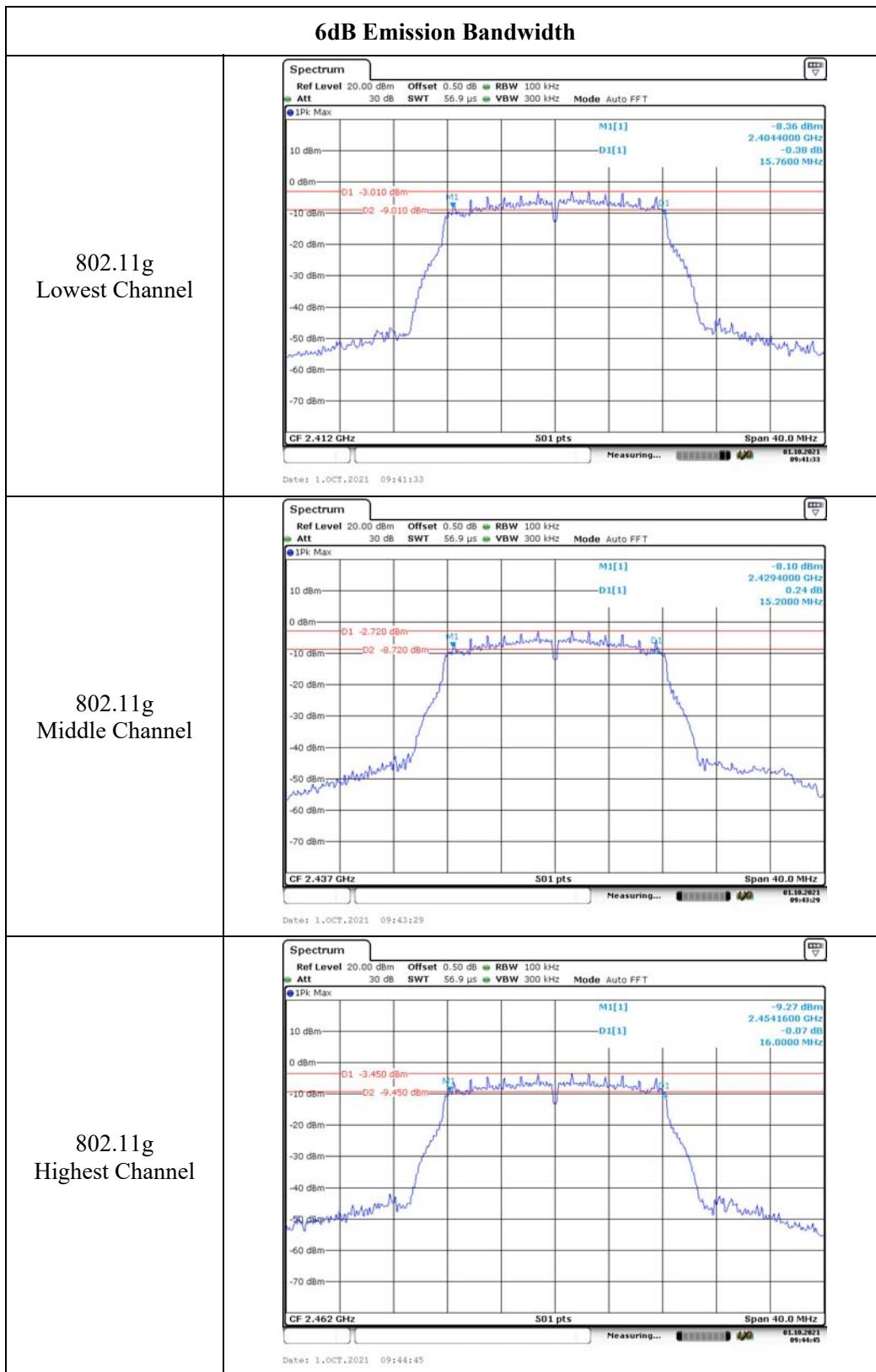
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0012/01	Each time	N/A

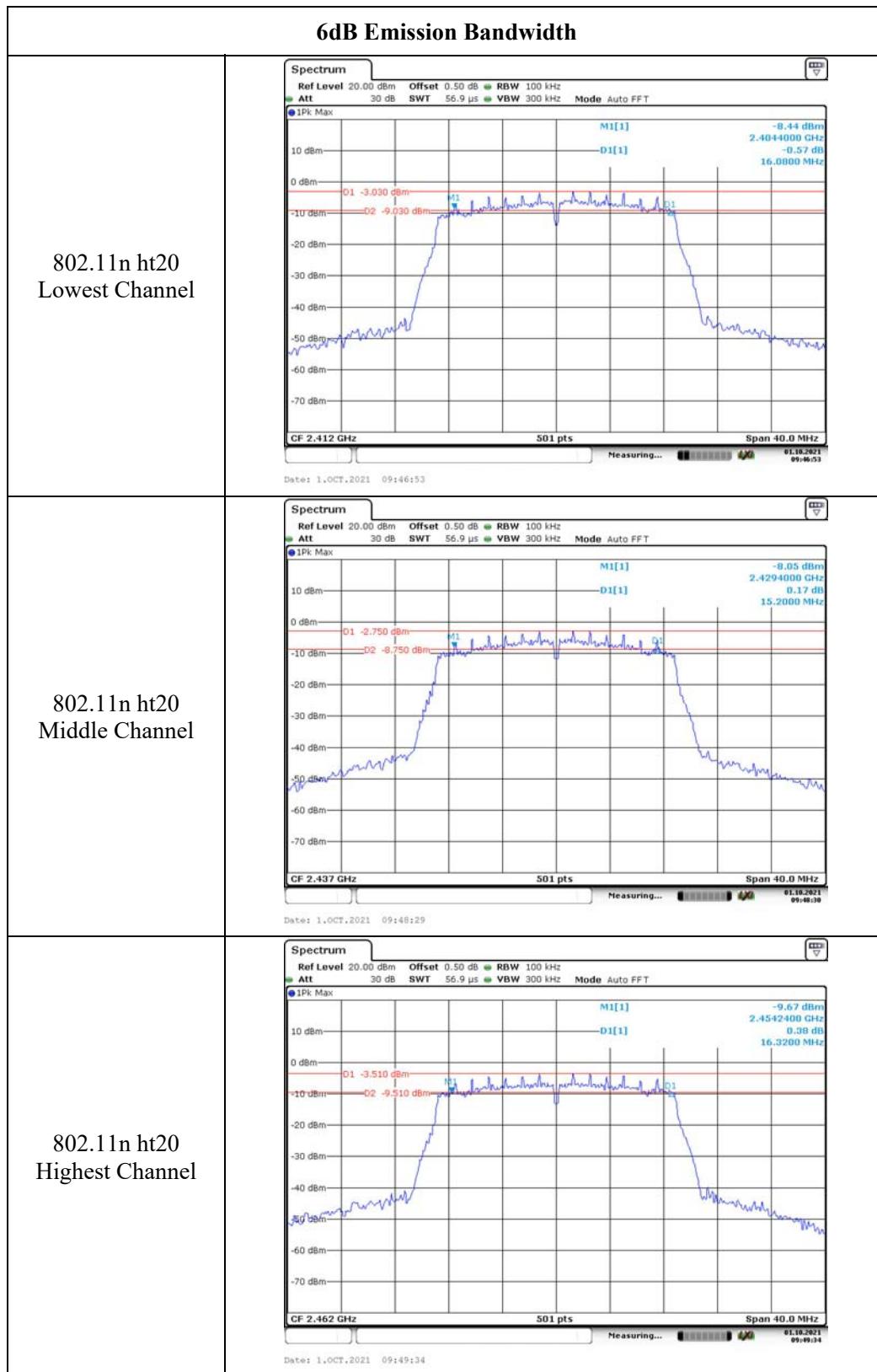
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

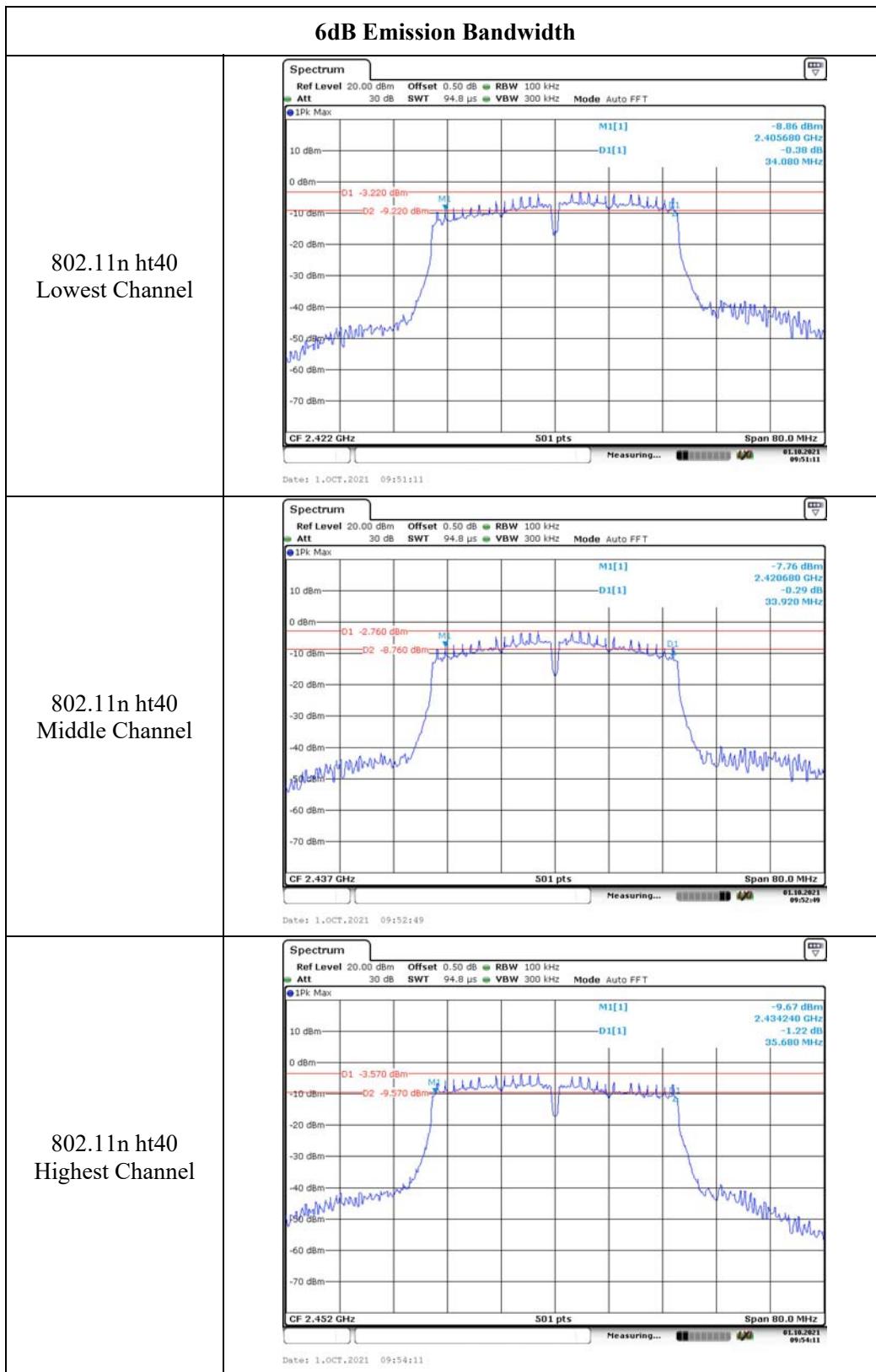
Test Data:

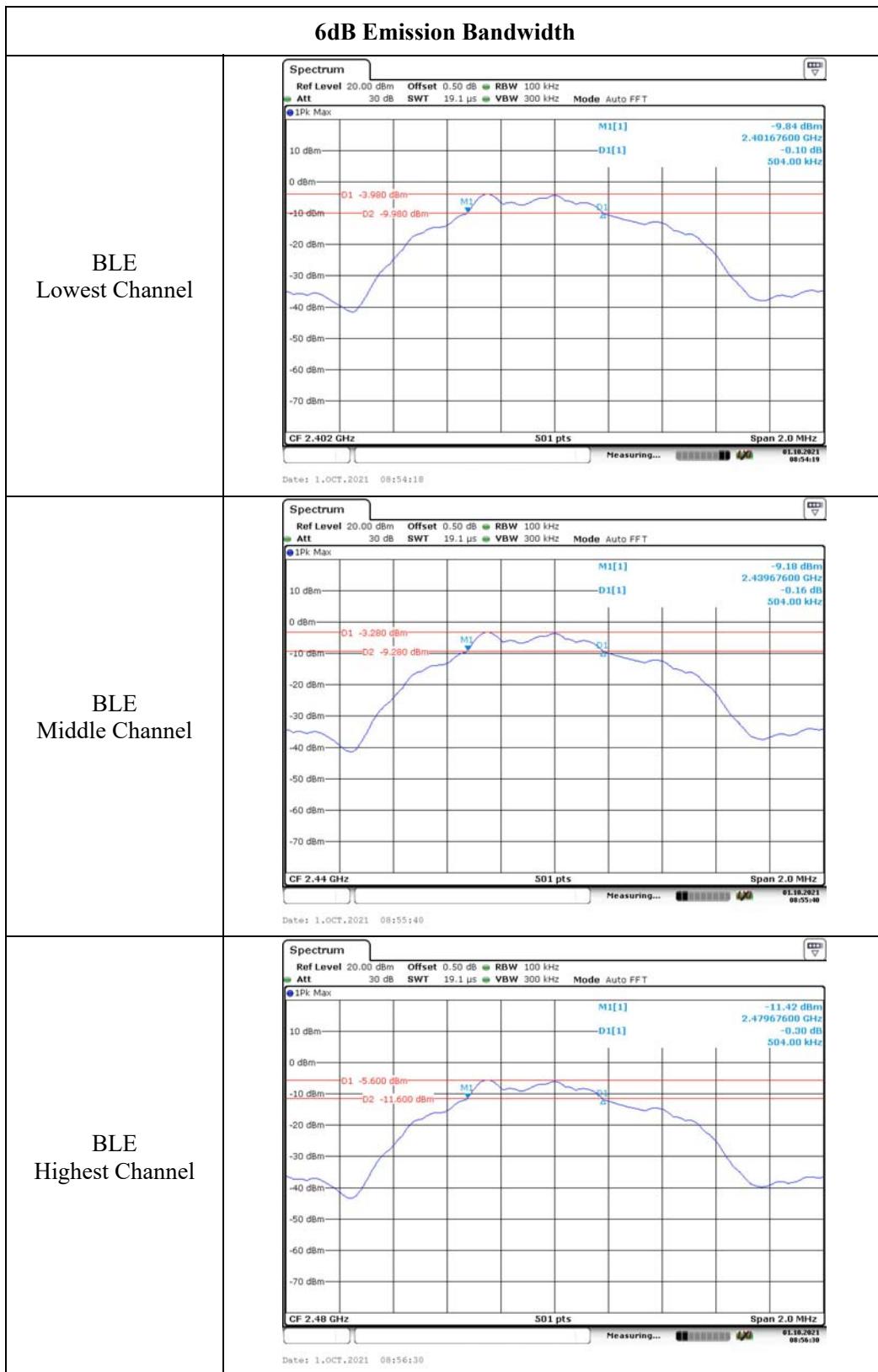
Test mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	8.480	≥0.5
	Middle	2437	8.000	≥0.5
	High	2462	8.560	≥0.5
802.11g	Low	2412	15.760	≥0.5
	Middle	2437	15.200	≥0.5
	High	2462	16.000	≥0.5
802.11n ht20	Low	2412	16.080	≥0.5
	Middle	2437	15.200	≥0.5
	High	2462	16.320	≥0.5
802.11n ht40	Low	2422	34.080	≥0.5
	Middle	2437	33.920	≥0.5
	High	2452	35.680	≥0.5
BLE	Low	2402	0.504	≥0.5
	Middle	2440	0.504	≥0.5
	High	2480	0.504	≥0.5











4.4 Maximum peak conducted output power:

Serial Number:	CR21090086-RF-S1	Test Date:	2021-10-01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Le Qiao	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2022XA	MY5315004	2021-09-12	2022-09-12
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0012/01	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 mode	Frequency (MHz)	Conducted Peak Output Power (dBm)	Conducted Average Output Power (dBm)	Limit (dBm)
802.11b	2412	14.36	9.38	30
	2437	14.69	9.32	30
	2462	14.95	9.30	30
802.11g	2412	16.58	9.36	30
	2437	16.98	9.33	30
	2462	16.48	9.15	30
802.11n ht20	2412	16.52	9.31	30
	2437	16.84	9.21	30
	2462	16.54	9.36	30
802.11n ht40	2422	16.77	9.15	30
	2437	16.58	9.28	30
	2452	16.85	8.88	30
BLE	2402	-3.89	/	30
	2440	-3.15	/	30
	2480	-5.47	/	30

4.5 Maximum power spectral density:

Serial Number:	CR21090086-RF-S1	Test Date:	2021-10-01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Le Qiao	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2

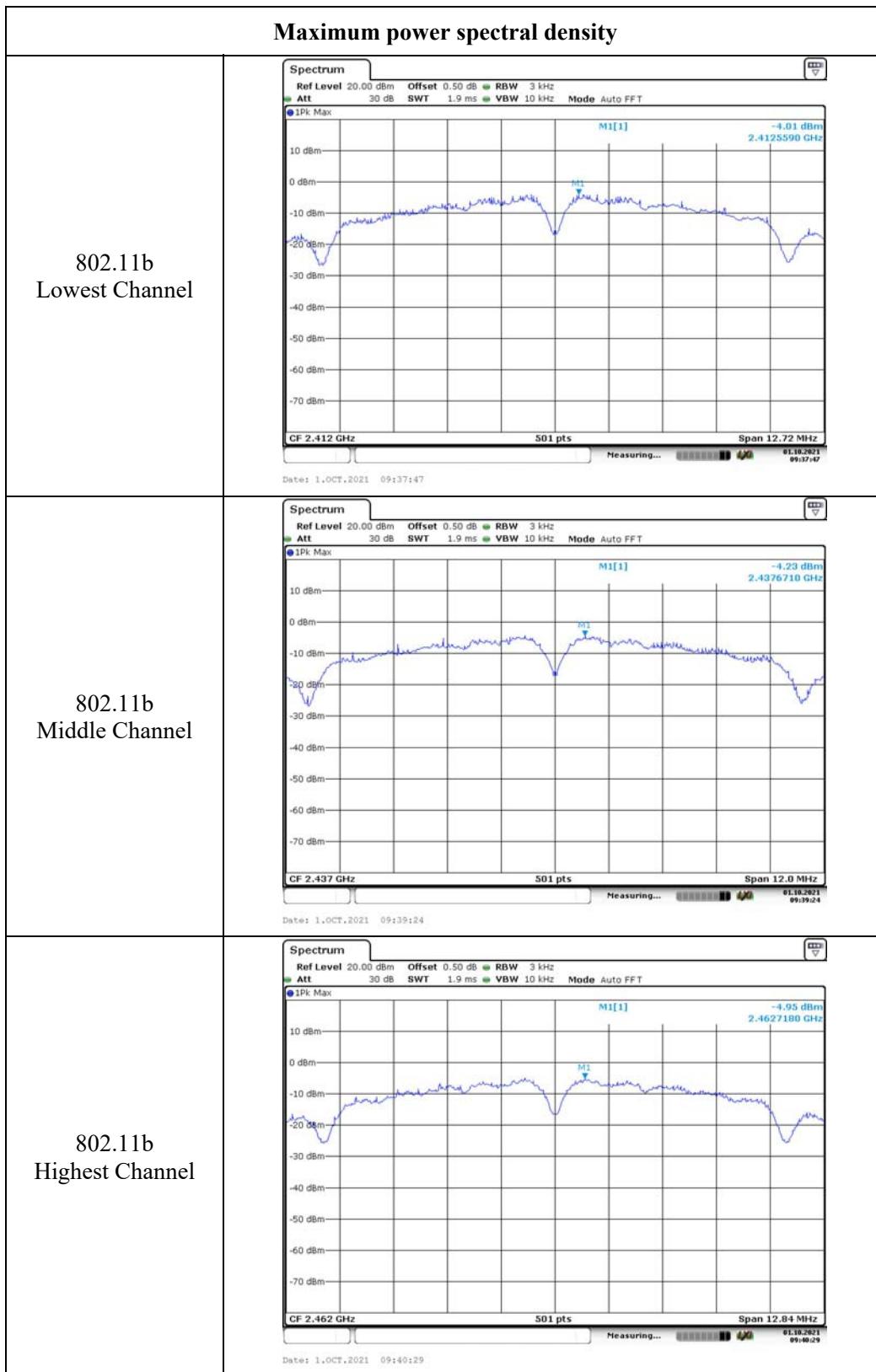
Test Equipment List and Details:

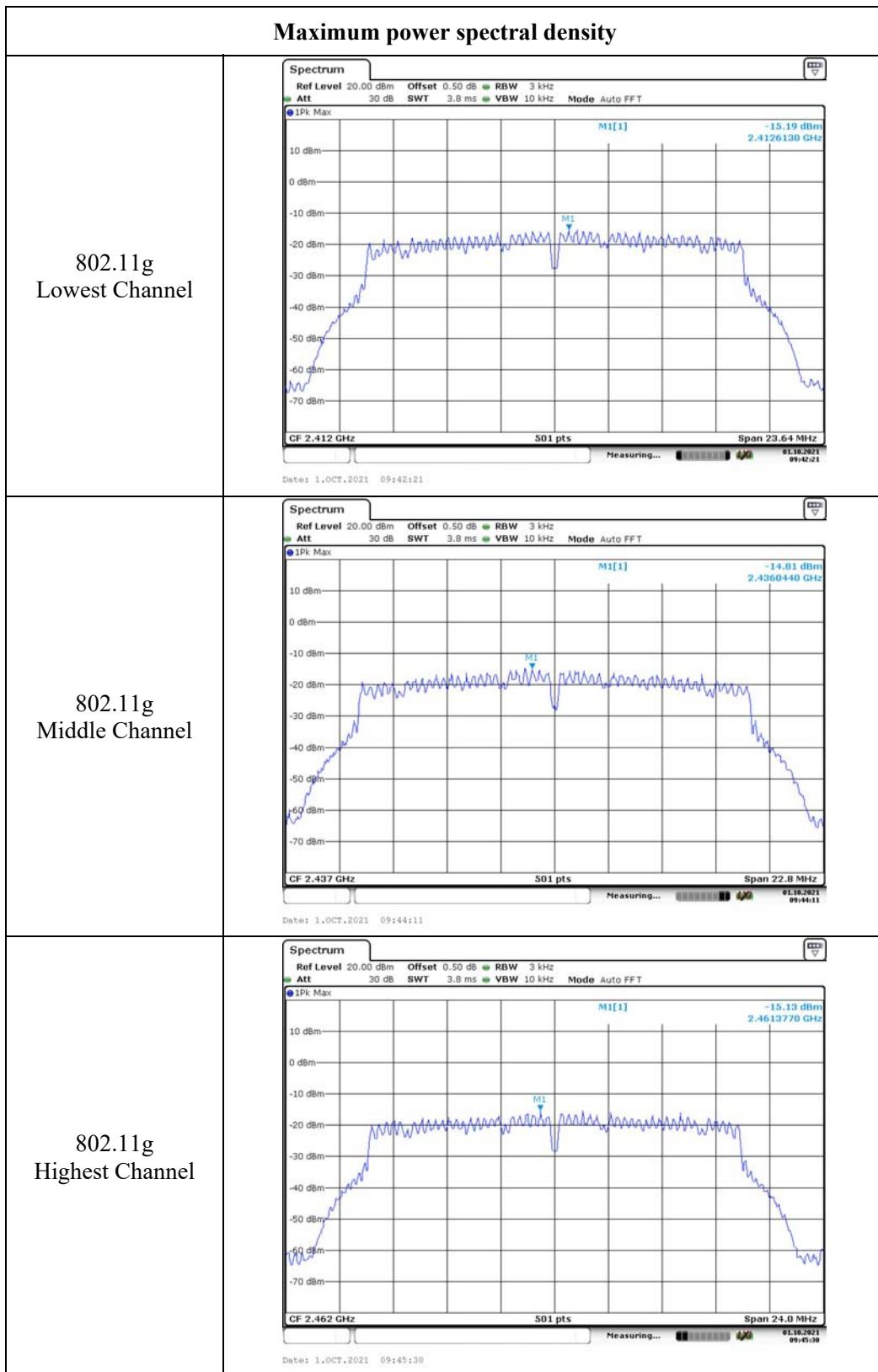
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0012/01	Each time	N/A

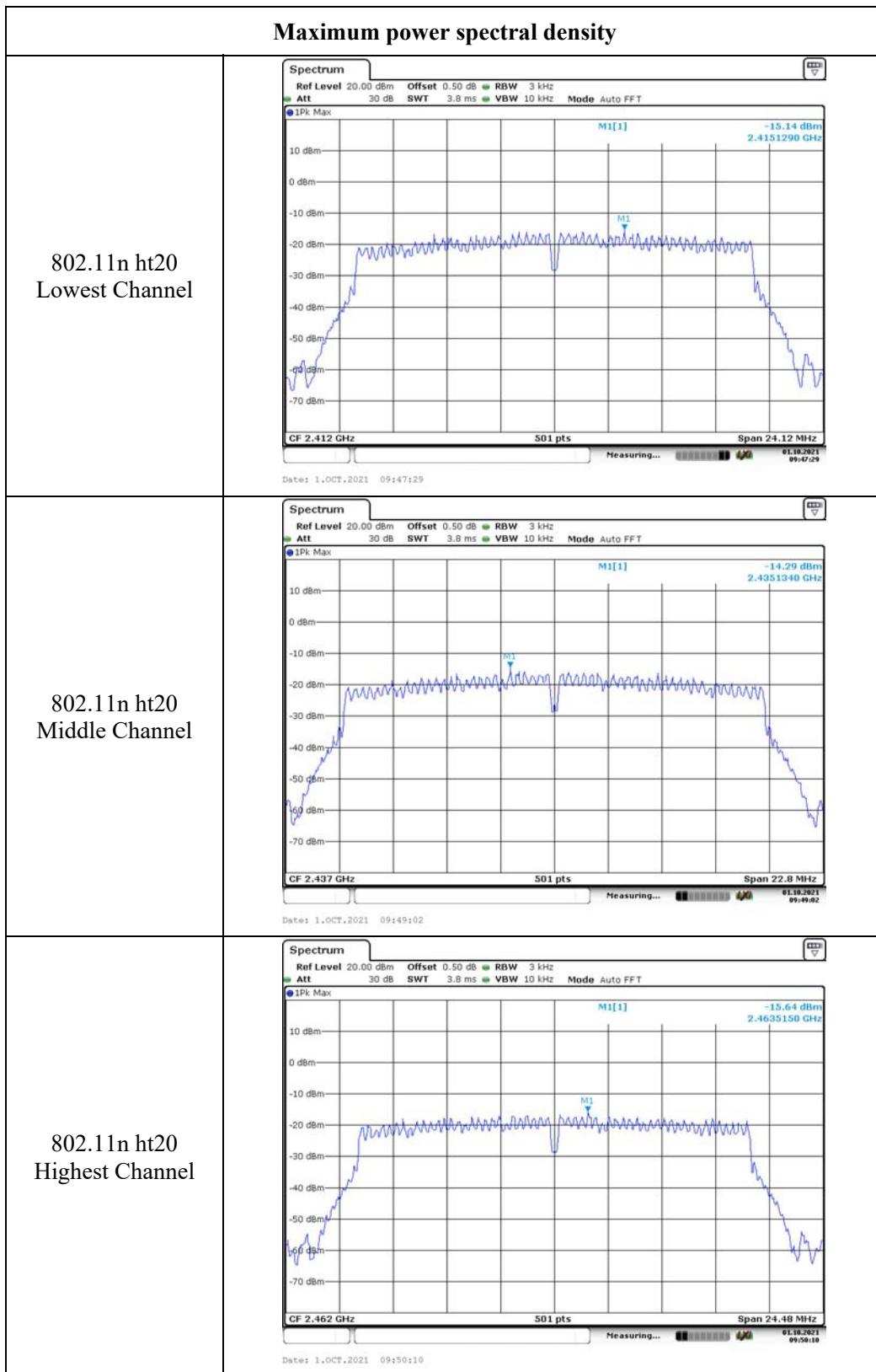
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

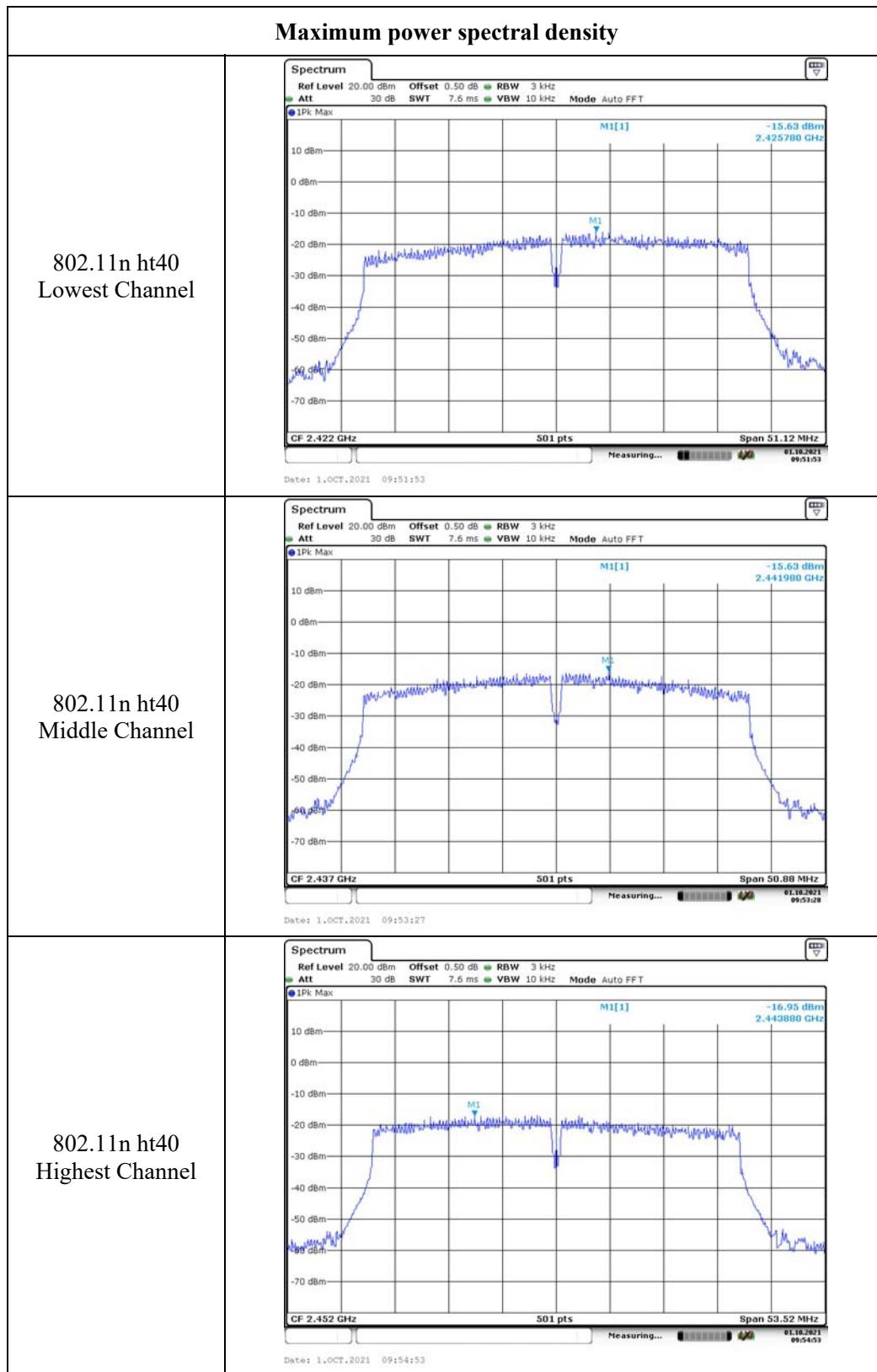
Test Data:

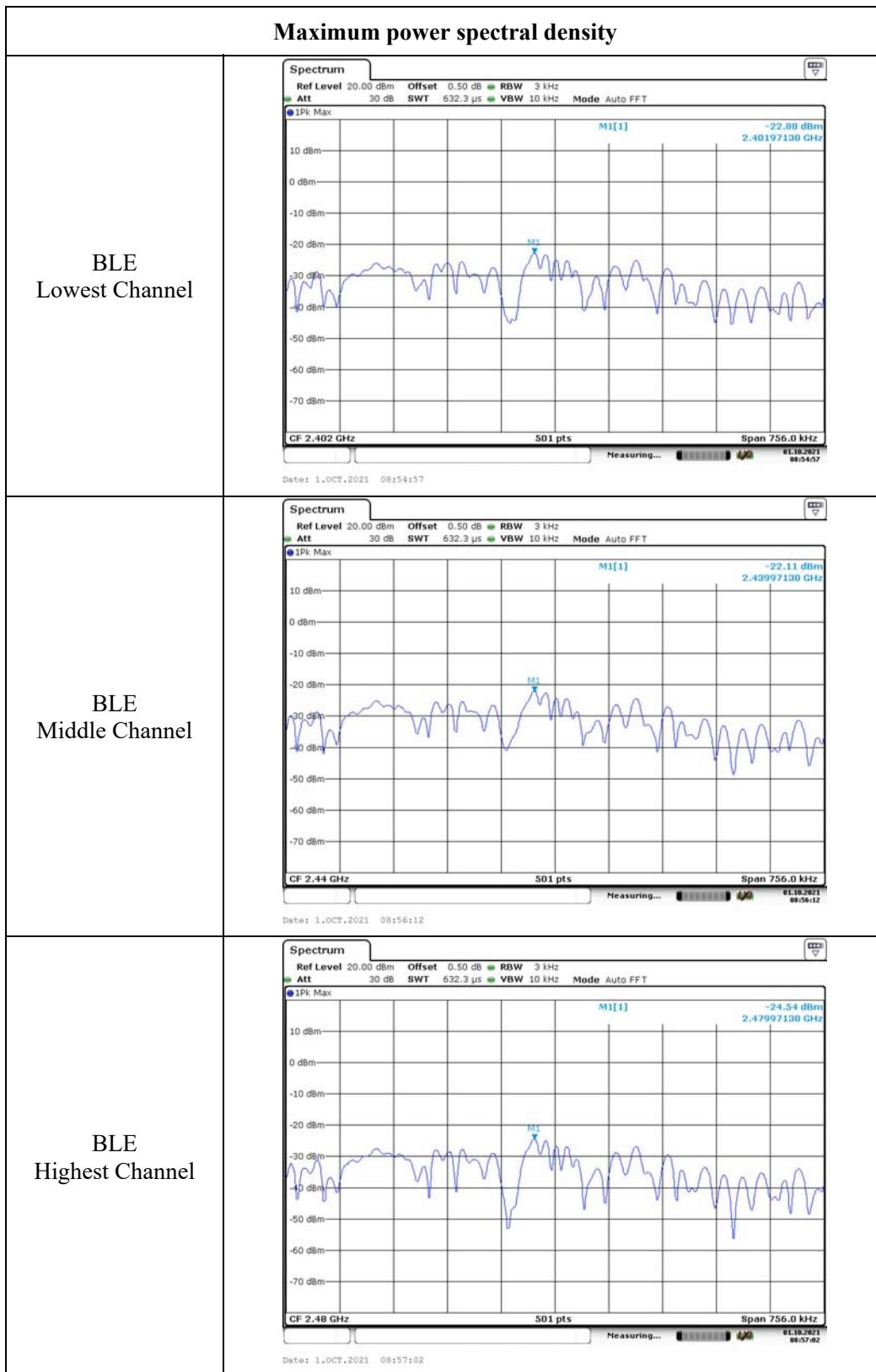
Test mode	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-4.01	≤8
	2437	-4.23	≤8
	2462	-4.95	≤8
802.11g	2412	-15.19	≤8
	2437	-14.81	≤8
	2462	-15.13	≤8
802.11n ht20	2412	-15.14	≤8
	2437	-14.29	≤8
	2462	-15.64	≤8
802.11n ht40	2422	-15.63	≤8
	2437	-15.63	≤8
	2452	-16.95	≤8
BLE	2402	-22.88	≤8
	2440	-22.11	≤8
	2480	-24.54	≤8











4.6 100 kHz Bandwidth of Frequency Band Edge:

Serial Number:	CR21090086-RF-S1	Test Date:	2021-10-01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Le Qiao	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2

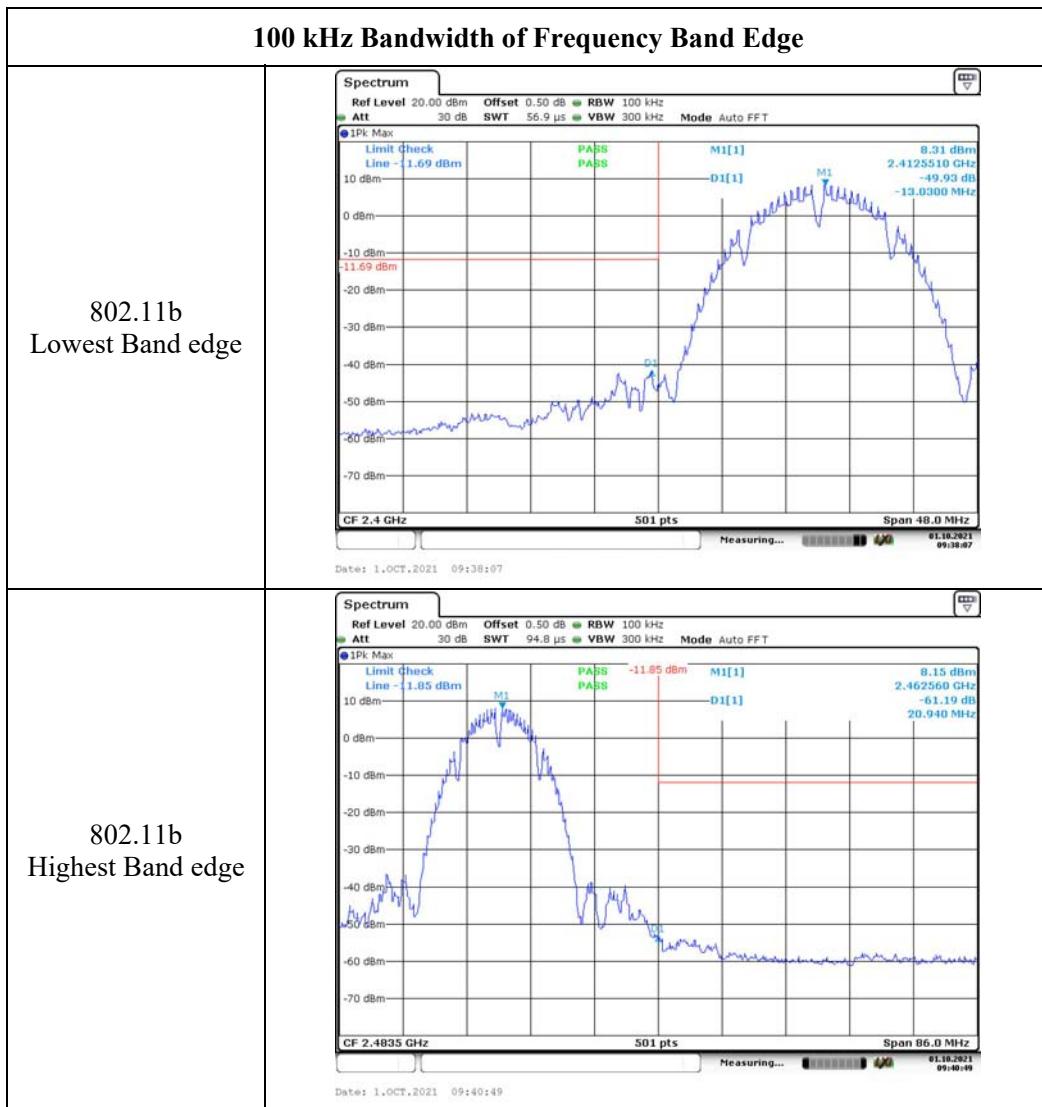
Test Equipment List and Details:

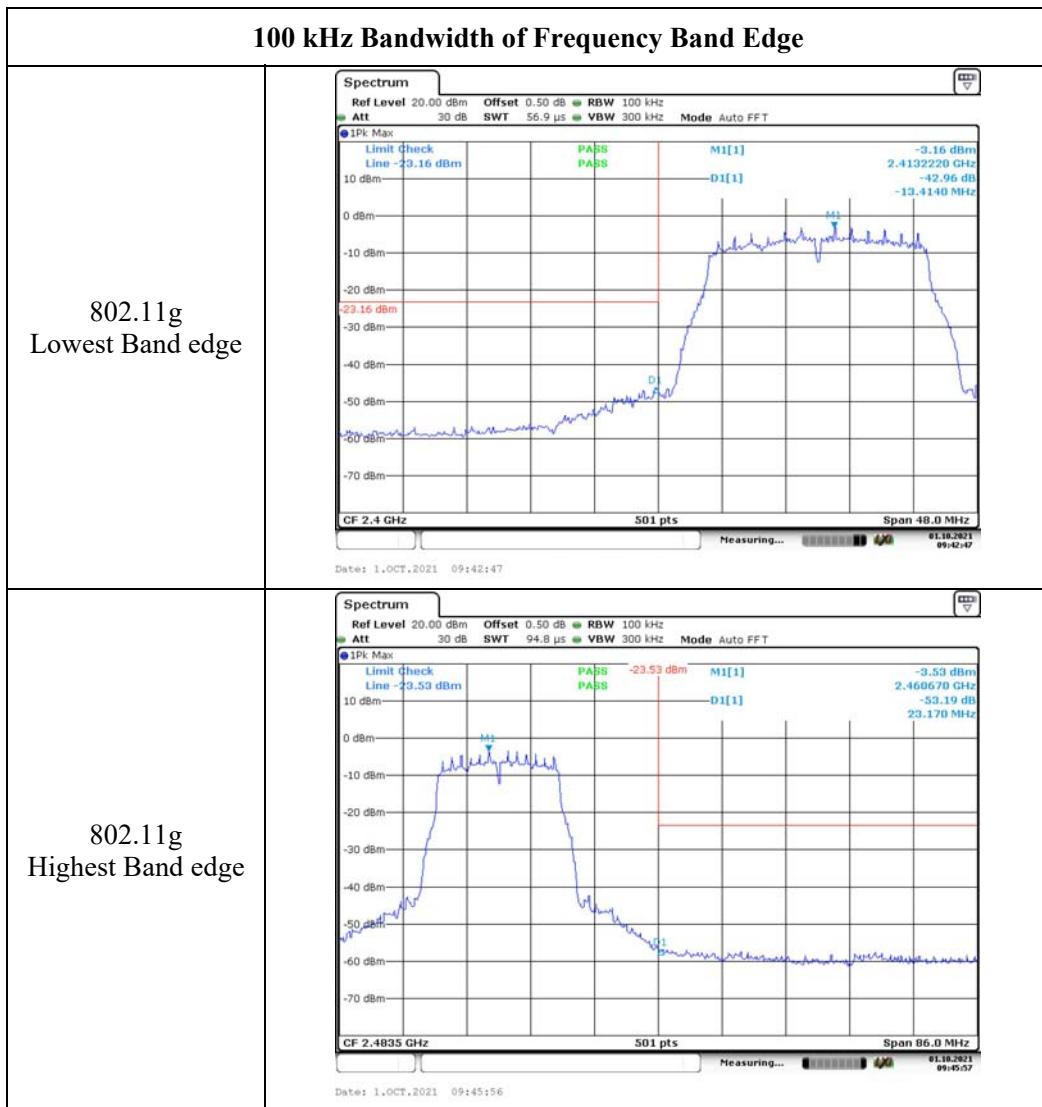
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0012/01	Each time	N/A

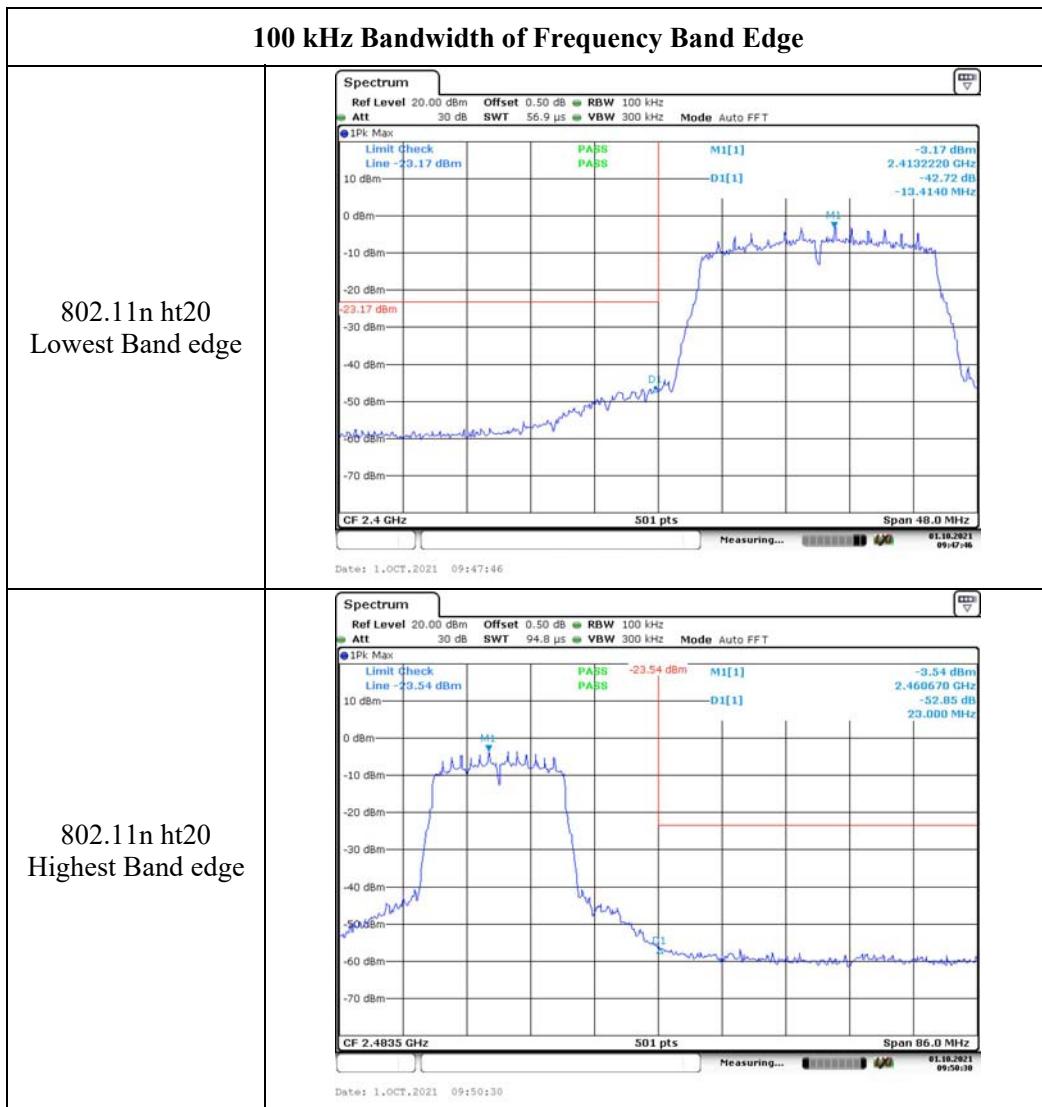
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

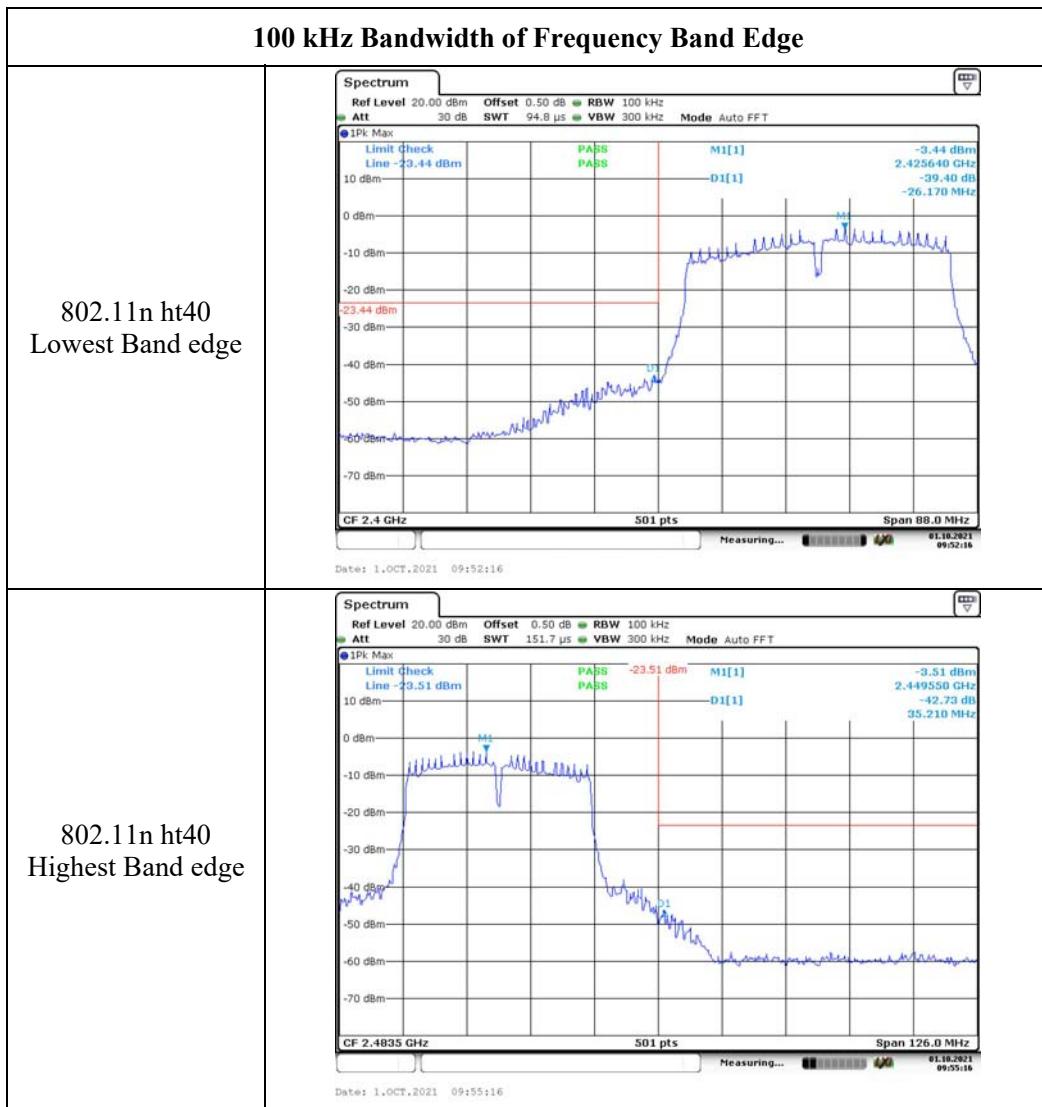
Test Data:

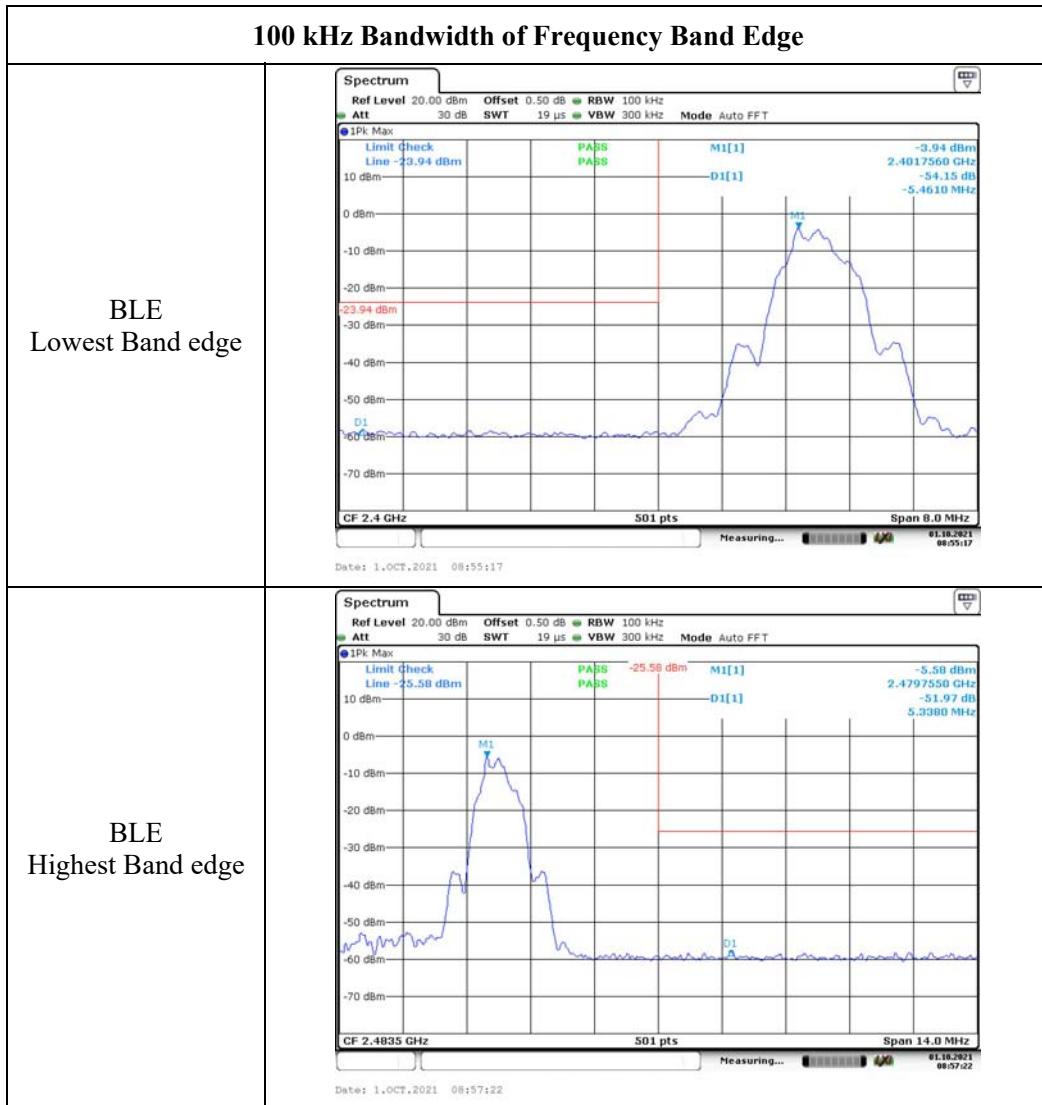
Test Modes	Test Frequency (MHz)	Result (dB)	Limit (dB)
802.11b	2412	49.93	20
	2462	61.19	20
802.11g	2412	42.96	20
	2462	53.19	20
802.11n ht20	2412	42.72	20
	2462	52.85	20
802.11n ht40	2422	39.40	20
	2452	42.73	20
BLE	2402	54.15	20
	2480	51.97	20











4.7 Duty Cycle:

Serial Number:	CR21090086-RF-S1	Test Date:	2021-10-01
Test Site:	RF	Test Mode:	Transmitting
Tester:	Le Qiao	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	25.9	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100.2
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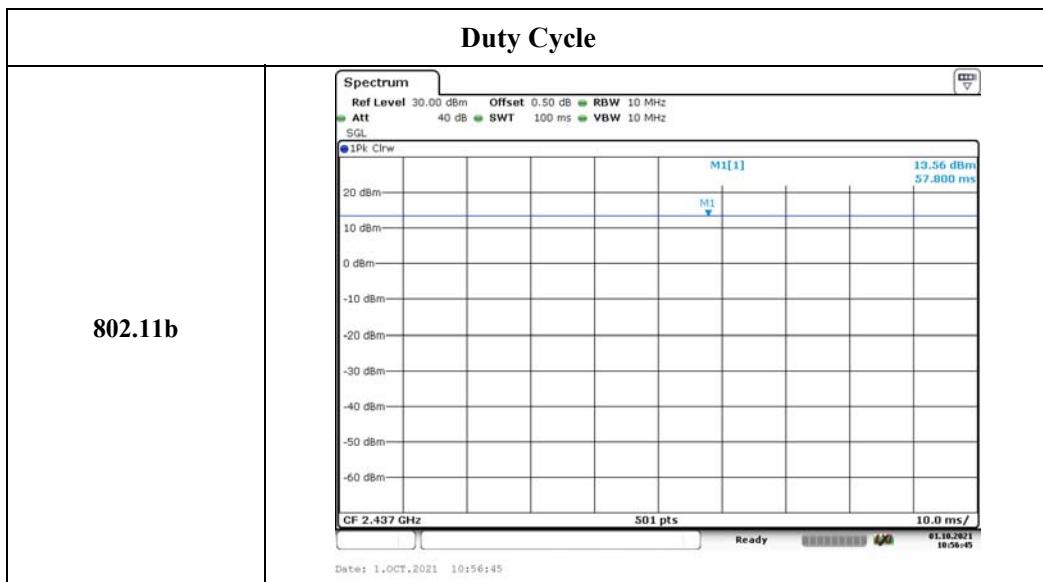
Test Equipment List and Details:

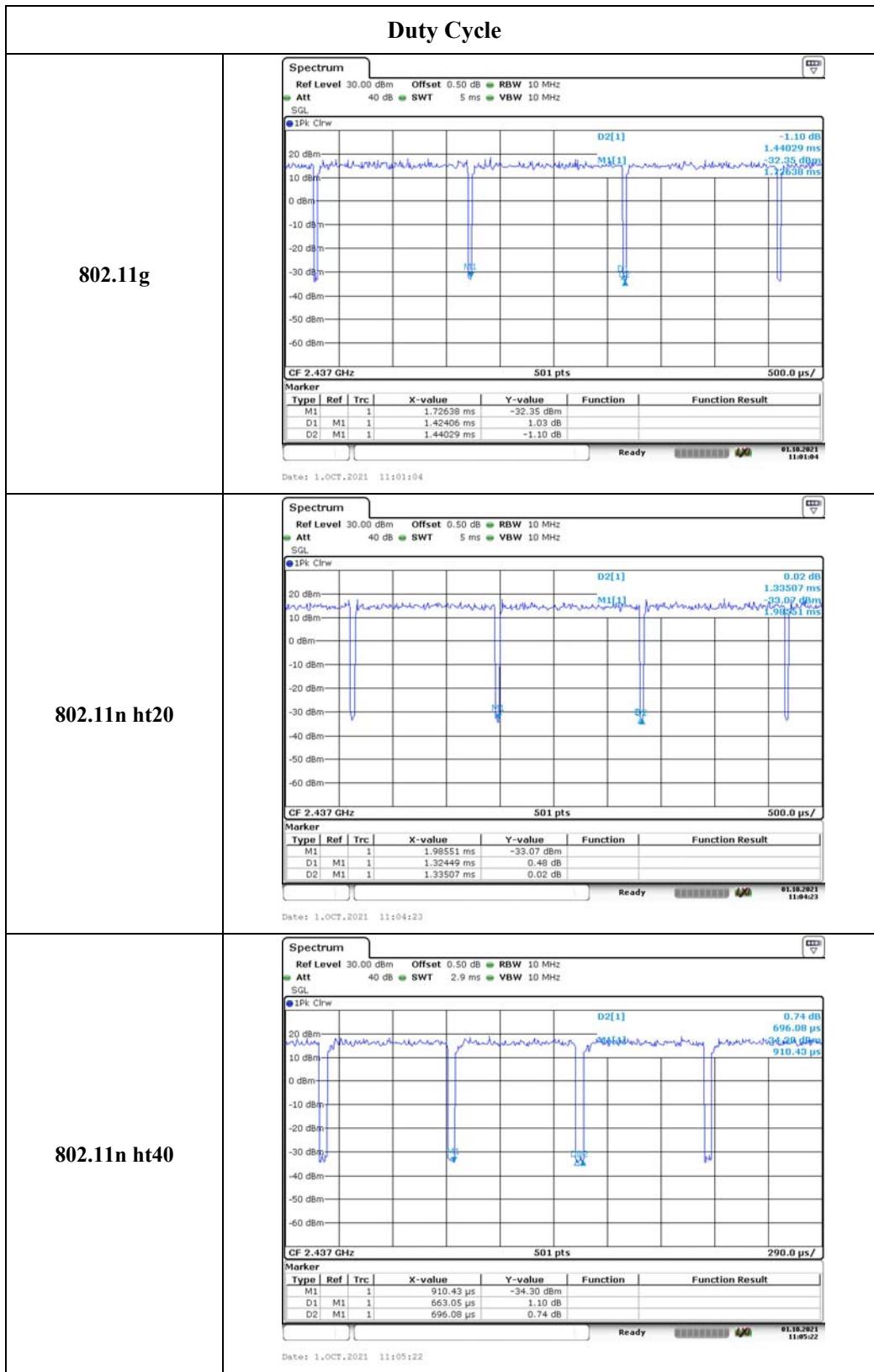
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0012/01	Each time	N/A

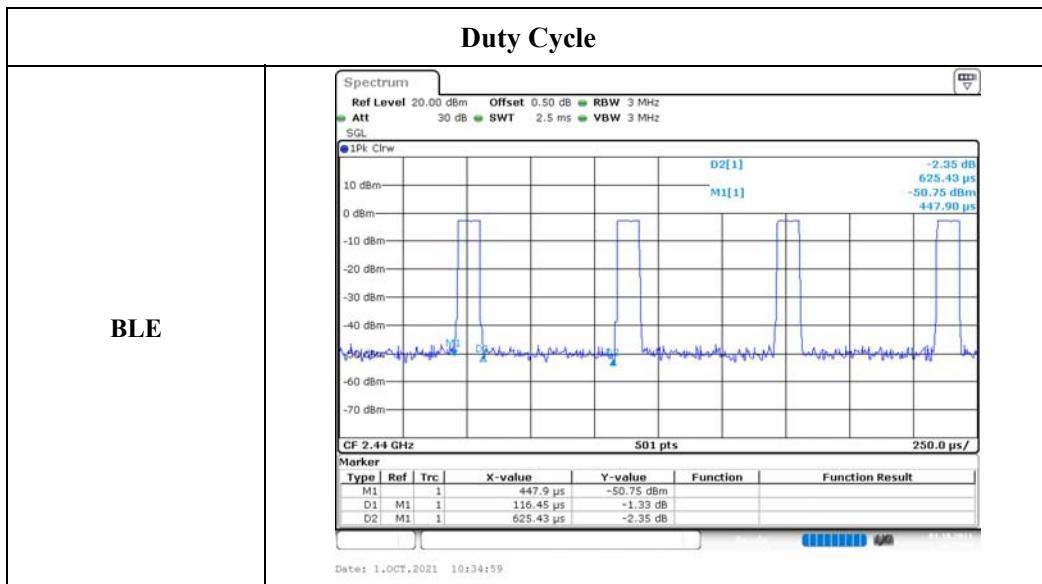
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test mode	T _{on} (ms)	T _{on+off} (ms)	Duty Cycle (%)
802.11b	100	100	100.00
802.11g	1.424	1.44	98.89
802.11n ht20	1.324	1.335	99.18
802.11n ht40	0.663	0.696	95.26
BLE	0.116	0.625	18.56







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.

5.2 Procedure

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

5.3 Measurement Result

For BLE:

The max conducted power including tune-up tolerance is -3.0 dBm (0.5 mW).
 $[(\text{max. power of channel, mW}) / (\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}] = 0.5 / 5 * (\sqrt{2.480}) = 0.2 < 3.0$

Result: Compliance. The stand-alone SAR evaluation is not necessary.

For Wi-Fi:

Result: Compliance. Please refer to the SAR report: RXZ210830006SA01.

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