中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

# TEST REPORT

**Applicant:** **FJ Dynamics Co.,Ltd.**

Address: 1709, WeiXing Building 61 GaoXin South 9th Rd Nanshan District, Shenzhen, China

**FCC ID:** **2A2LL-V1-V1T**

**Product Name:** **GNSS Receiver**

**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:** **CR221045858-00A**

**Date Of Issue:** **2022/11/9**

**Reviewed By:** **Sun Zhong** Sun Zhong

Title: Manager

**Test Laboratory:** **China Certification ICT Co., Ltd (Dongguan)**
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Guangdong, China
Tel: +86-769-82016888

## 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.

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:** | GNSS Receiver |
| **EUT Model:** | V1t |
| **Multiple Model:** | V1 |
| **Operation Frequency:** | 2412-2462 MHz(802.11b/g/n ht20)<br>2402-2480MHz(BLE) |
| **Maximum Peak Output Power (Conducted):** | 16.95 dBm(802.11b/g/n)<br>3.71 dBm(BLE) |
| **Modulation Type:** | 802.11b:DSSS-DBPSK, DQPSK, CCK<br>802.11g/n:OFDM-BPSK, QPSK, 16QAM, 64QAM<br>BLE: GFSK |
| **Rated Input Voltage:** | DC 9-32V |
| **Serial Number:** | CR221045858-RF-S1 |
| **EUT Received Date:** | 2022/10/10 |
| **EUT Received Status:** | Good |
| Note: The Multiple model is electrically 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 below frequencies were performed the test as below:

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

**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 below frequencies were performed the test as below:

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

**Antenna Information Detail▲:**

| Antenna Type | input impedance (Ohm) | Frequency Range | Antenna Gain |
|---|---|---|---|
| PCB | 50 | 2.4~2.5GHz | 2.0 dBi |

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 | Unknown | RH-PD30W | Input: AC 100-240V~50/60Hz 0.8A<br>Output: USB-A:4.5V=5A 5V=4.5A 9V=2A 12V=1.5A<br>USB-C:5V=3A 9V=3A 12V=2.5A 15V=2A 20V=1.5A<br>USB-A+C:5V=3A |
| USB-C Cable | Unknown | Unknown | Shieled, 1m |
| USB Cable | Unknown | Unknown | Shieled, 1m |
| Configuration Cable | Unknown | Unknown | Unshieled, 1m |

## 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:** | EspRFTestTool_v2.8_Manual_ESP |

The software 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 | 14 | 10 | 14 |
| 802.11g | 6Mbps | 10 | 7 | 10 |
| 802.11n ht20 | MCS0 | 10 | 7 | 9 |

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:** | EspRFTestTool_v2.8_Manual_ESP |

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

| Test Modes | Power Level Setting | | |
|---|---|---|---|
| | Lowest Channel | Middle Channel | Highest Channel |
| 1Mbps | Default | Default | Default |

### 1.2.2 Support Equipment List and Details

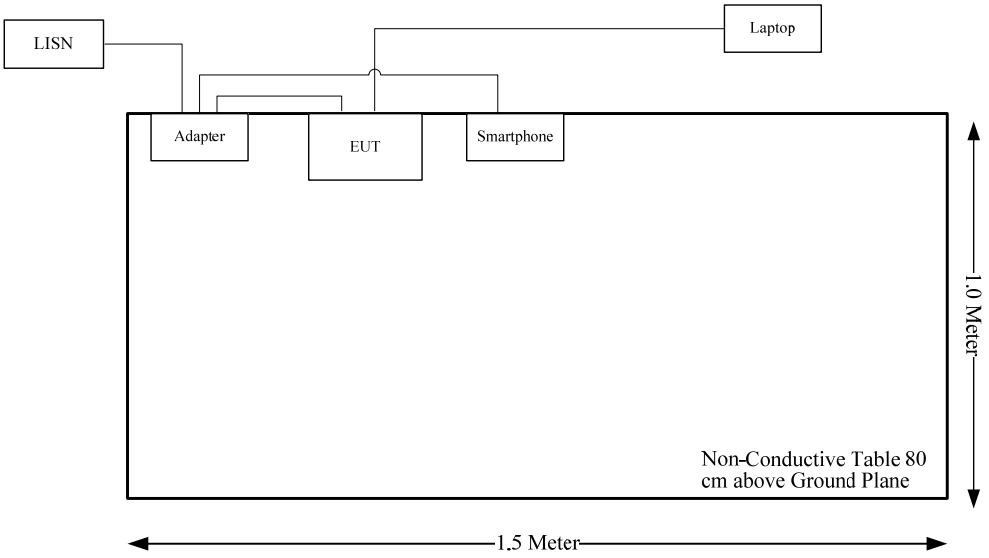
| Manufacturer | Description | Model | Serial Number |
|---|---|---|---|
| Huawei | Smartphone | EVR-AL00 | A000009E3F501E |
| Lenovo | Laptop | G510 | CB30920865 |
| CAMEL | Battery | 55D23L | BAT01 |

### 1.2.3 Support Cable List and Details

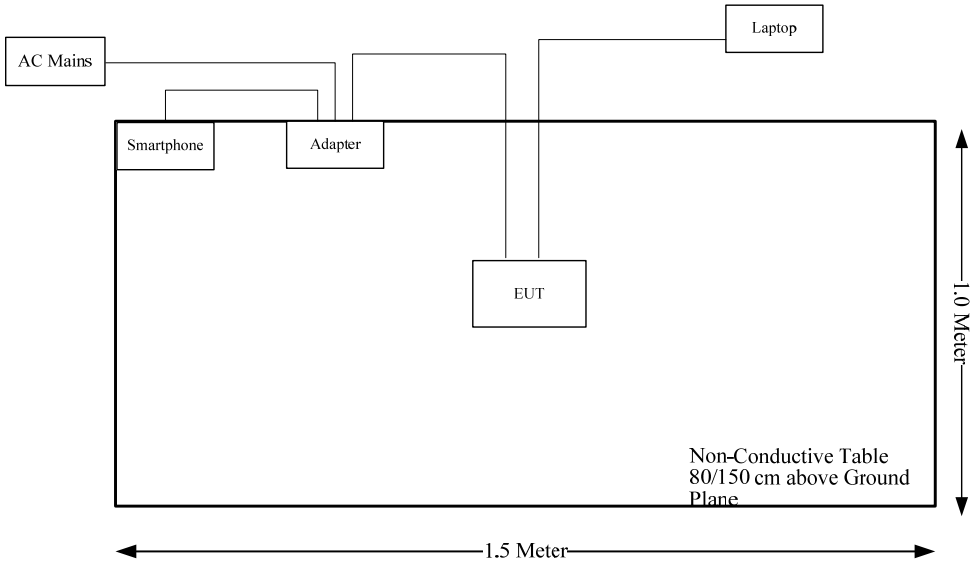
| Cable Description | Shielding Type | Ferrite Core | Length (m) | From Port | To |
|---|---|---|---|---|---|
| DB9 Cable | No | No | 2 | EUT | Laptop |
| Power Cable | No | No | 1.5 | EUT | Battery |

### 1.2.4 Block Diagram of Test Setup

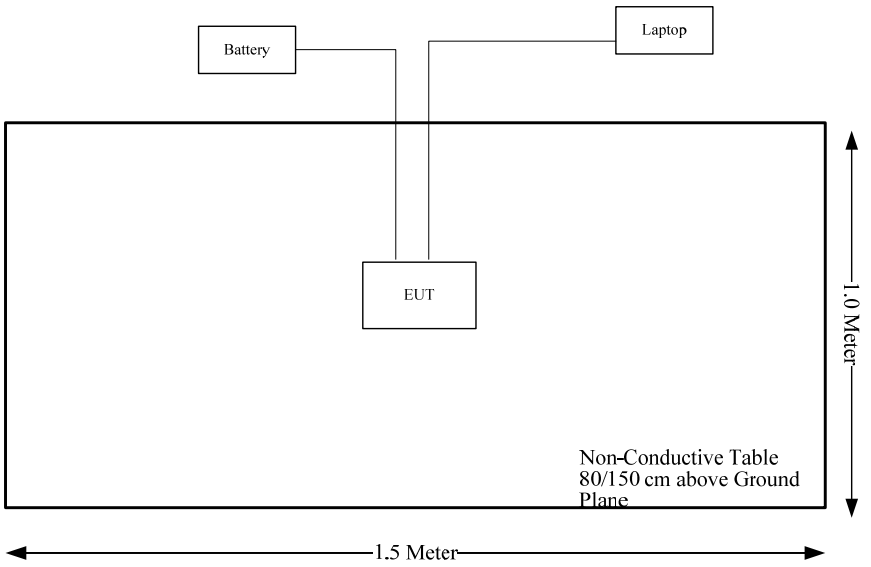
AC line conducted emissions:
USB Power Supply:




Spurious Emissions:
USB Power Supply:



Battery Power Supply:



## 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℃ |
| 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 | 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 μH/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:

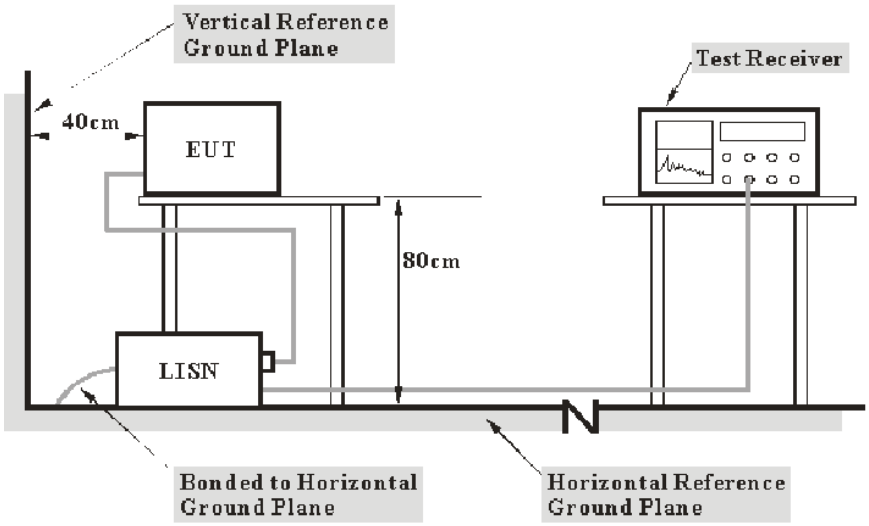
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

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

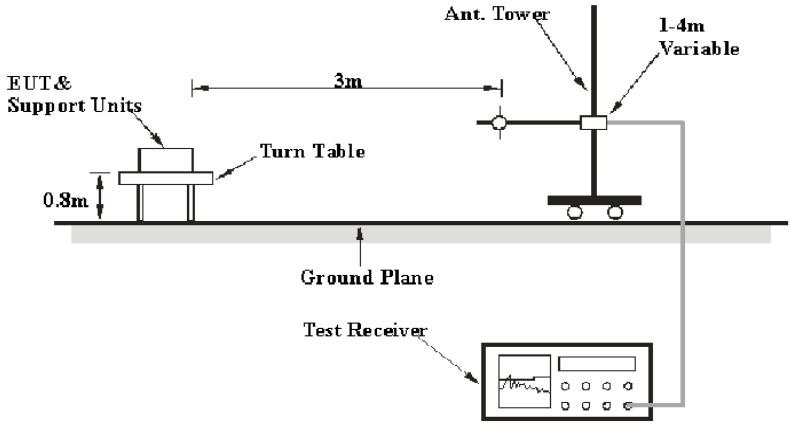
### 3.2.1 Applicable Standard

FCC §15.247 (d);

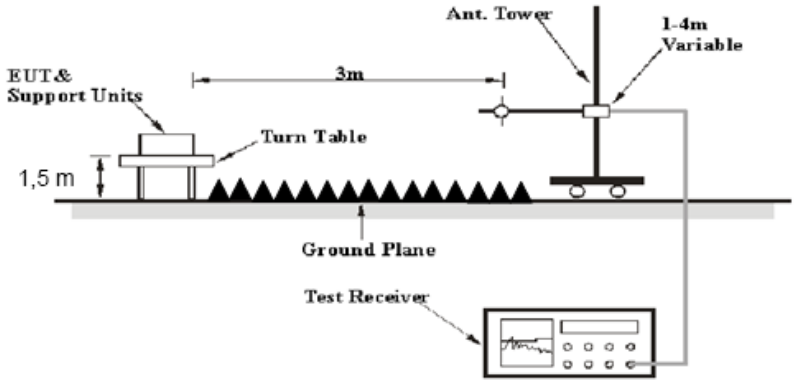
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

### 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 |
| Ave. | >98% | 1MHz | 10 Hz |
| | <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

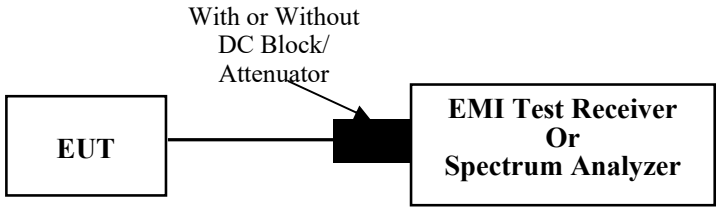
## 3.3 6 dB Emission Bandwidth:

### 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.

### 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) ≥ 3×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.

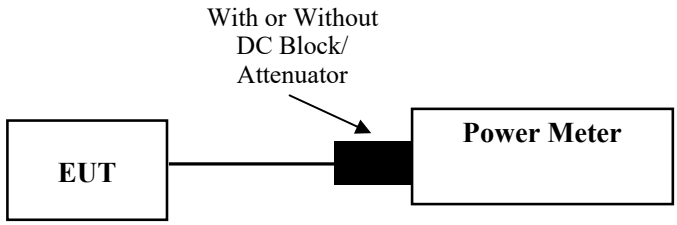
## 3.4 Maximum conducted output power:

### 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.

### 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.

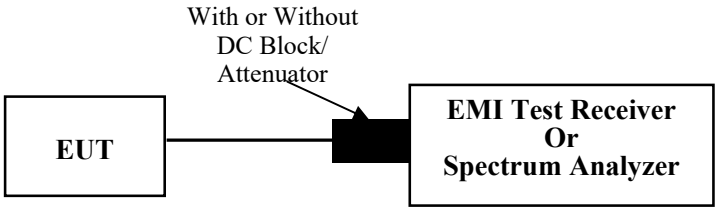
## 3.5 Maximum power spectral density:

### 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.

### 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 kHz ≤ RBW ≤ 100 kHz.
d) Set the VBW ≥ [3 · 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.

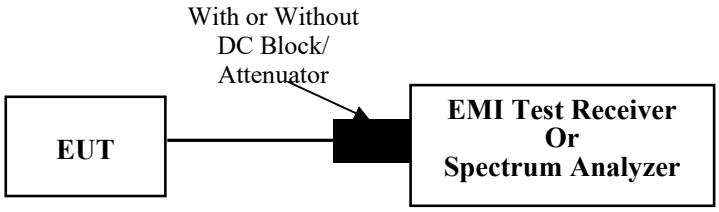
## 3.6 100 kHz Bandwidth of Frequency Band Edge:

### 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



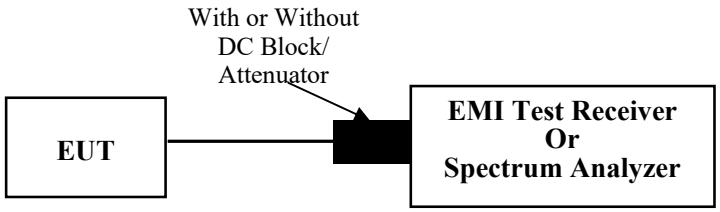

### 3.6.3 Test Procedure

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 ≥ [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




### 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 ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ 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 ≤ 16.7 μs.)

## 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

**Compliant.** Please refer to the Antenna Information detail in Section 1.

# 4. Test DATA AND RESULTS

## 4.1 AC Line Conducted Emissions

| | | | |
|---|---|---|---|
| Serial Number: | CR221045858-RF-S1 | Test Date: | 2022/10/28 |
| Test Site: | CE | Test Mode: | Transmitting(802.11n ht20 middle channel was the worst) |
| Tester: | Vic Du | Test Result: | Pass |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 25.3 | Relative Humidity: (%) | 64 | ATM Pressure: (kPa) | 100.9 |

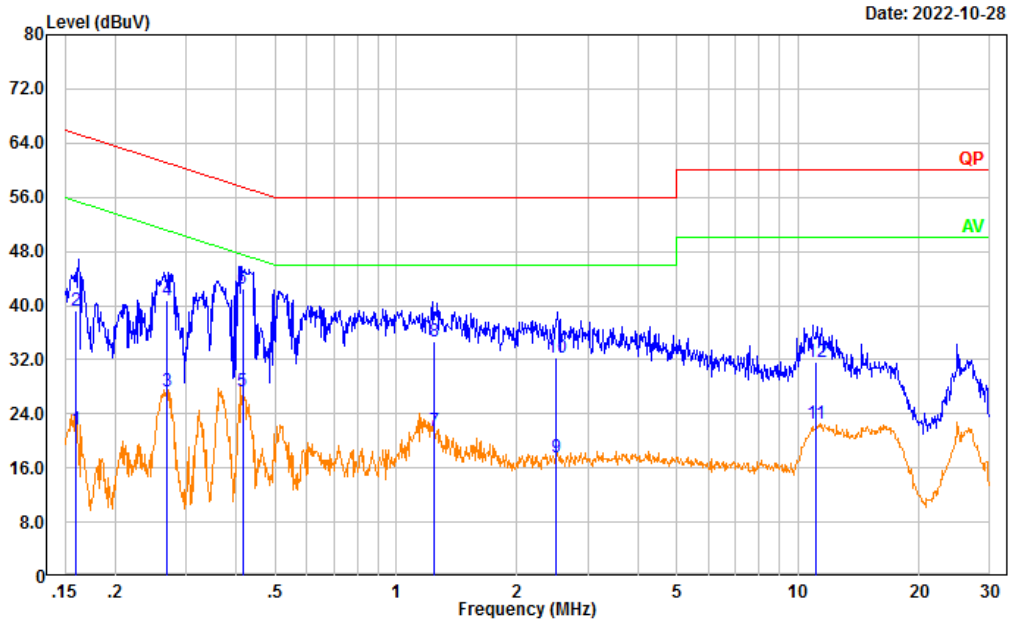
**Test Equipment List and Details:**

| 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 | 2022/07/15 | 2023/07/14 |
| MICRO-COAX | Coaxial Cable | UTIFLEX | C-0200-01 | 2022/08/07 | 2023/08/06 |
| 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).*

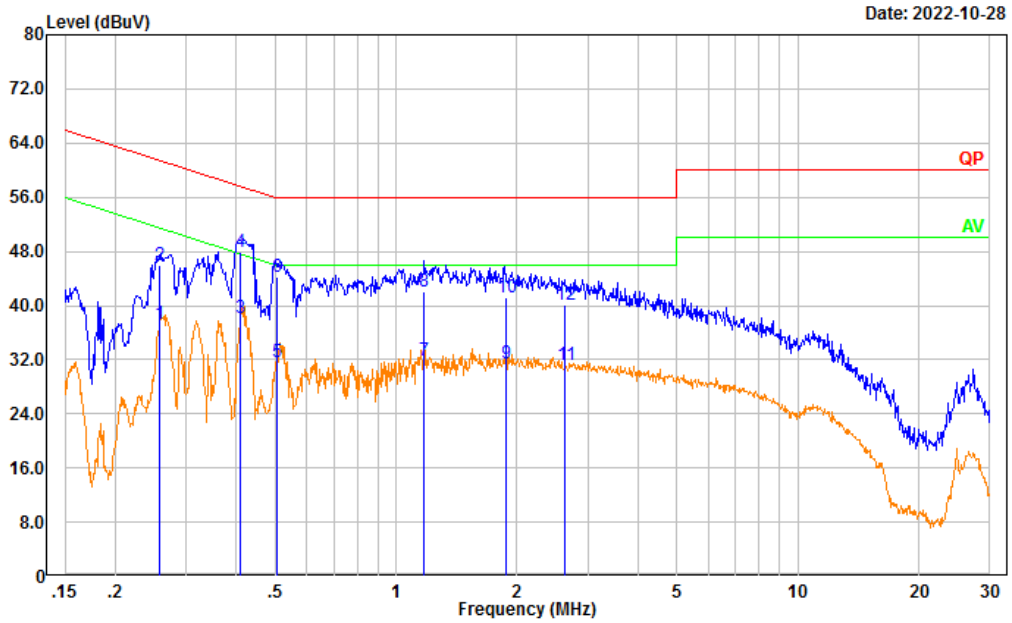
USB-C Power Supply:

Test Mode: Transmitting
Port: Line
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 0.159 | 12.14 | 9.61 | 21.75 | 55.50 | 33.75 | Average |
| 2 | 0.159 | 29.56 | 9.61 | 39.17 | 65.50 | 26.33 | QP |
| 3 | 0.269 | 17.69 | 9.61 | 27.30 | 51.15 | 23.85 | Average |
| 4 | 0.269 | 31.06 | 9.61 | 40.67 | 61.15 | 20.48 | QP |
| 5 | 0.415 | 17.77 | 9.61 | 27.38 | 47.55 | 20.17 | Average |
| 6 | 0.415 | 32.97 | 9.61 | 42.58 | 57.55 | 14.97 | QP |
| 7 | 1.241 | 11.86 | 9.62 | 21.48 | 46.00 | 24.52 | Average |
| 8 | 1.241 | 25.01 | 9.62 | 34.63 | 56.00 | 21.37 | QP |
| 9 | 2.493 | 7.88 | 9.64 | 17.52 | 46.00 | 28.48 | Average |
| 10 | 2.493 | 22.70 | 9.64 | 32.34 | 56.00 | 23.66 | QP |
| 11 | 11.065 | 12.96 | 9.67 | 22.63 | 50.00 | 27.37 | Average |
| 12 | 11.065 | 22.08 | 9.67 | 31.75 | 60.00 | 28.25 | QP |

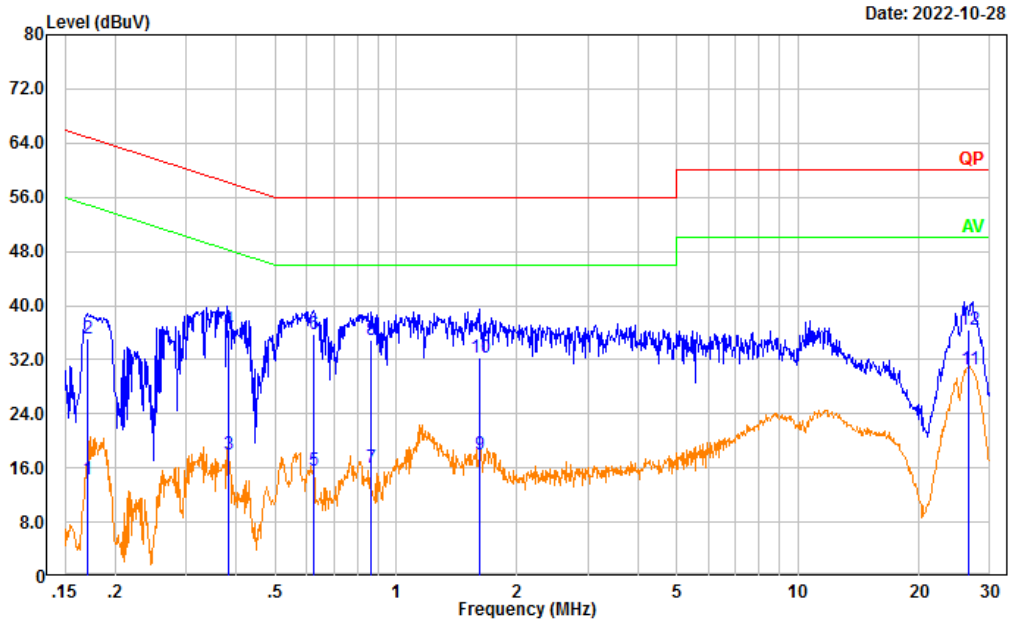
Test Mode: Transmitting
Port: neutral
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 0.258 | 27.75 | 9.61 | 37.36 | 51.49 | 14.13 | Average |
| 2 | 0.258 | 36.39 | 9.61 | 46.00 | 61.49 | 15.49 | QP |
| 3 | 0.409 | 28.45 | 9.61 | 38.06 | 47.66 | 9.60 | Average |
| 4 | 0.409 | 38.23 | 9.61 | 47.84 | 57.66 | 9.82 | QP |
| 5 | 0.506 | 22.02 | 9.61 | 31.63 | 46.00 | 14.37 | Average |
| 6 | 0.506 | 34.51 | 9.61 | 44.12 | 56.00 | 11.88 | QP |
| 7 | 1.169 | 22.36 | 9.62 | 31.98 | 46.00 | 14.02 | Average |
| 8 | 1.169 | 32.52 | 9.62 | 42.14 | 56.00 | 13.86 | QP |
| 9 | 1.878 | 21.82 | 9.63 | 31.45 | 46.00 | 14.55 | Average |
| 10 | 1.878 | 31.61 | 9.63 | 41.24 | 56.00 | 14.76 | QP |
| 11 | 2.633 | 21.54 | 9.64 | 31.18 | 46.00 | 14.82 | Average |
| 12 | 2.633 | 30.40 | 9.64 | 40.04 | 56.00 | 15.96 | QP |

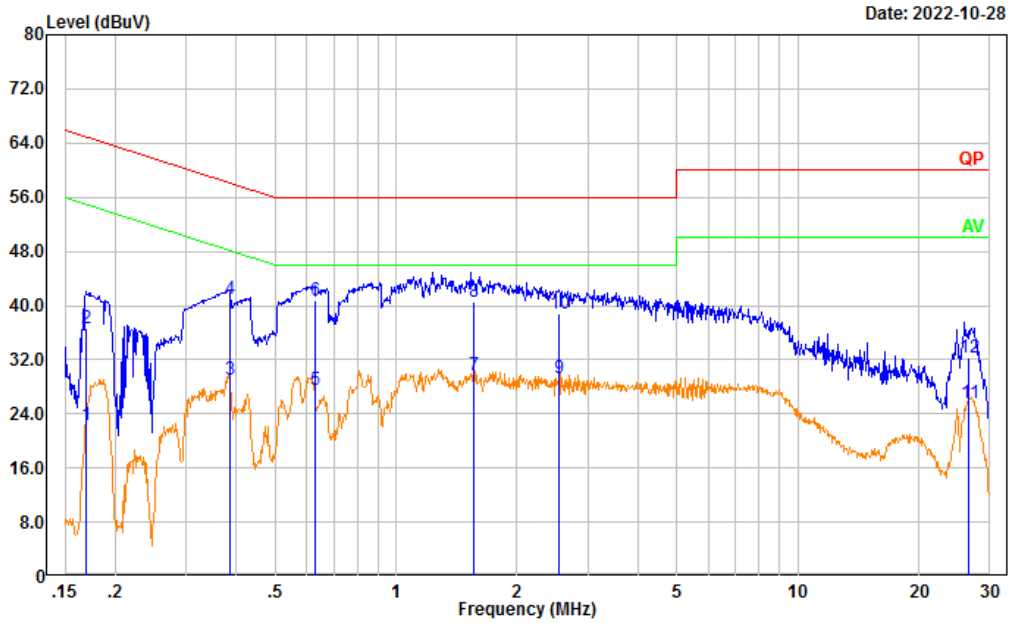
USB-A Power Supply:

Test Mode: Transmitting
Port: Line
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 0.170 | 4.74 | 9.61 | 14.35 | 54.94 | 40.59 | Average |
| 2 | 0.170 | 25.53 | 9.61 | 35.14 | 64.94 | 29.80 | QP |
| 3 | 0.384 | 8.31 | 9.61 | 17.92 | 48.19 | 30.27 | Average |
| 4 | 0.384 | 26.87 | 9.61 | 36.48 | 58.19 | 21.71 | QP |
| 5 | 0.626 | 5.91 | 9.62 | 15.53 | 46.00 | 30.47 | Average |
| 6 | 0.626 | 26.25 | 9.62 | 35.87 | 56.00 | 20.13 | QP |
| 7 | 0.865 | 6.37 | 9.62 | 15.99 | 46.00 | 30.01 | Average |
| 8 | 0.865 | 25.37 | 9.62 | 34.99 | 56.00 | 21.01 | QP |
| 9 | 1.613 | 8.42 | 9.63 | 18.05 | 46.00 | 27.95 | Average |
| 10 | 1.613 | 22.64 | 9.63 | 32.27 | 56.00 | 23.73 | QP |
| 11 | 26.633 | 20.83 | 9.83 | 30.66 | 50.00 | 19.34 | Average |
| 12 | 26.633 | 26.57 | 9.83 | 36.40 | 60.00 | 23.60 | QP |

Test Mode: Transmitting
Port: neutral
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 0.169 | 12.71 | 9.61 | 22.32 | 54.99 | 32.67 | Average |
| 2 | 0.169 | 27.01 | 9.61 | 36.62 | 64.99 | 28.37 | QP |
| 3 | 0.386 | 19.39 | 9.61 | 29.00 | 48.16 | 19.16 | Average |
| 4 | 0.386 | 31.28 | 9.61 | 40.89 | 58.16 | 17.27 | QP |
| 5 | 0.627 | 17.95 | 9.62 | 27.57 | 46.00 | 18.43 | Average |
| 6 | 0.627 | 31.19 | 9.62 | 40.81 | 56.00 | 15.19 | QP |
| 7 | 1.567 | 20.09 | 9.63 | 29.72 | 46.00 | 16.28 | Average |
| 8 | 1.567 | 30.85 | 9.63 | 40.48 | 56.00 | 15.52 | QP |
| 9 | 2.539 | 19.57 | 9.64 | 29.21 | 46.00 | 16.79 | Average |
| 10 | 2.539 | 29.09 | 9.64 | 38.73 | 56.00 | 17.27 | QP |
| 11 | 26.666 | 15.77 | 9.80 | 25.57 | 50.00 | 24.43 | Average |
| 12 | 26.666 | 22.55 | 9.80 | 32.35 | 60.00 | 27.65 | QP |

## 4.2 Radiation Spurious Emissions

| | | | |
|---|---|---|---|
| Serial Number: | CR221045858-RF-S1 | Test Date: | 2022/10/28-2022/11/3 |
| Test Site: | 966-2, 966-1 | Test Mode: | Transmitting |
| Tester: | Carl Xue, Mack Huang | Test Result: | Pass |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 26.4-25.9 | Relative Humidity: (%) | 52-57 | ATM Pressure: (kPa) | 100.5-101.0 |

**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 | 2022/07/15 | 2023/07/14 |
| TIMES MICROWAVE | Coaxial Cable | LMR-600-UltraFlex | C-0470-02 | 2022/07/17 | 2023/07/16 |
| TIMES MICROWAVE | Coaxial Cable | LMR-600-UltraFlex | C-0780-01 | 2022/07/17 | 2023/07/16 |
| Sonoma | Amplifier | 310N | 186165 | 2022/07/17 | 2023/07/16 |
| ETS-Lindgren | Horn Antenna | 3115 | 9912-5985 | 2020/10/13 | 2023/10/12 |
| R&S | Spectrum Analyzer | FSV40 | 101591 | 2022/07/15 | 2023/07/14 |
| MICRO-COAX | Coaxial Cable | UFA210A-1-1200-70U300 | 217423-008 | 2022/08/07 | 2023/08/06 |
| MICRO-COAX | Coaxial Cable | UFA210A-1-2362-300300 | 235780-001 | 2022/08/07 | 2023/08/06 |
| Mini | Pre-amplifier | ZVA-183-S+ | 5969001149 | 2021/11/10 | 2022/11/09 |
| Audix | Test Software | E3 | 201021 (V9) | N/A | N/A |
| 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 | 2022/08/07 | 2023/08/06 |
| E-Microwave | Band Rejection Filter | 2400-2483.5MHz | OE01902424 | 2022/08/07 | 2023/08/06 |
| Mini Circuits | High Pass Filter | VHF-6010+ | 31119 | 2022/08/07 | 2023/08/06 |

** 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).*

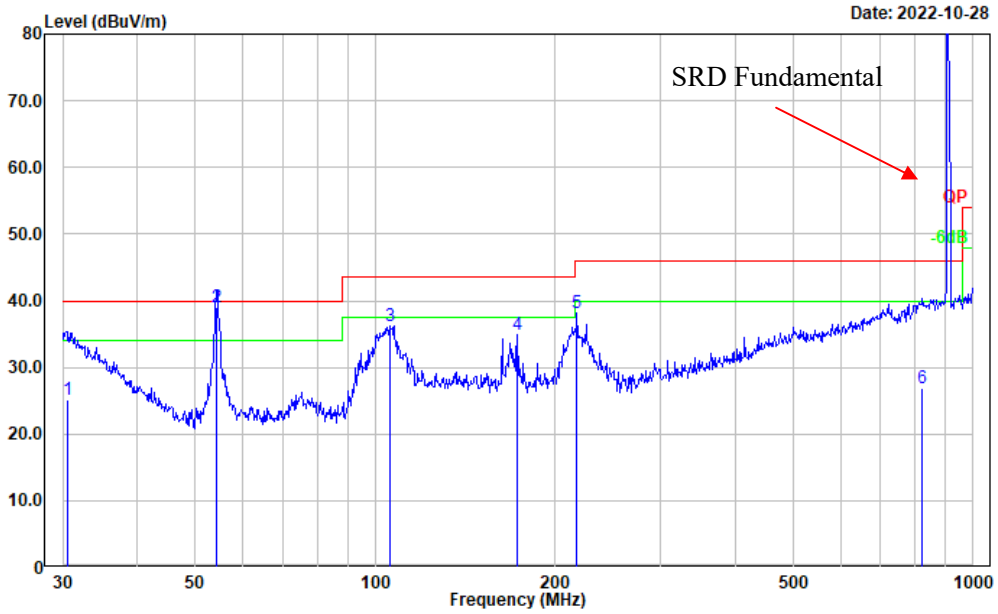
**Test Data:**

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.

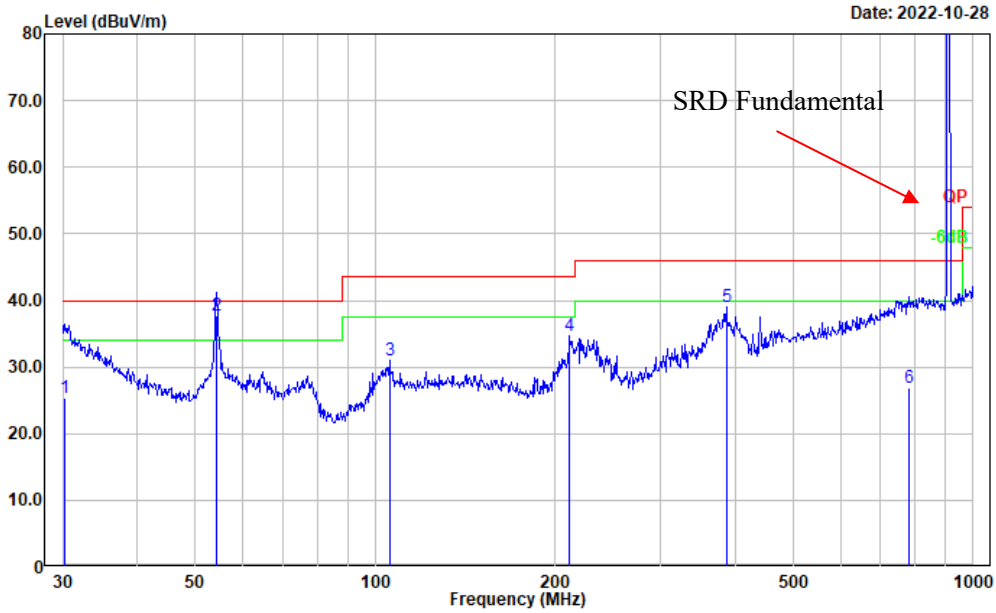
**1) 30MHz-1GHz**(802.11b Low channel + SRD Low Channel was the worst)
USB-C Power Supply:

Test Mode: Transmitting
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 30.531 | -2.37 | 27.47 | 25.10 | 40.00 | 14.90 | QP |
| 2 | 54.258 | 24.87 | 14.23 | 39.10 | 40.00 | 0.90 | QP |
| 3 | 105.642 | 17.98 | 18.25 | 36.23 | 43.50 | 7.27 | Peak |
| 4 | 172.599 | 16.51 | 18.36 | 34.87 | 43.50 | 8.63 | Peak |
| 5 | 217.544 | 19.57 | 18.69 | 38.26 | 46.00 | 7.74 | Peak |
| 6 | 821.710 | -2.26 | 29.25 | 26.99 | 46.00 | 19.01 | QP |

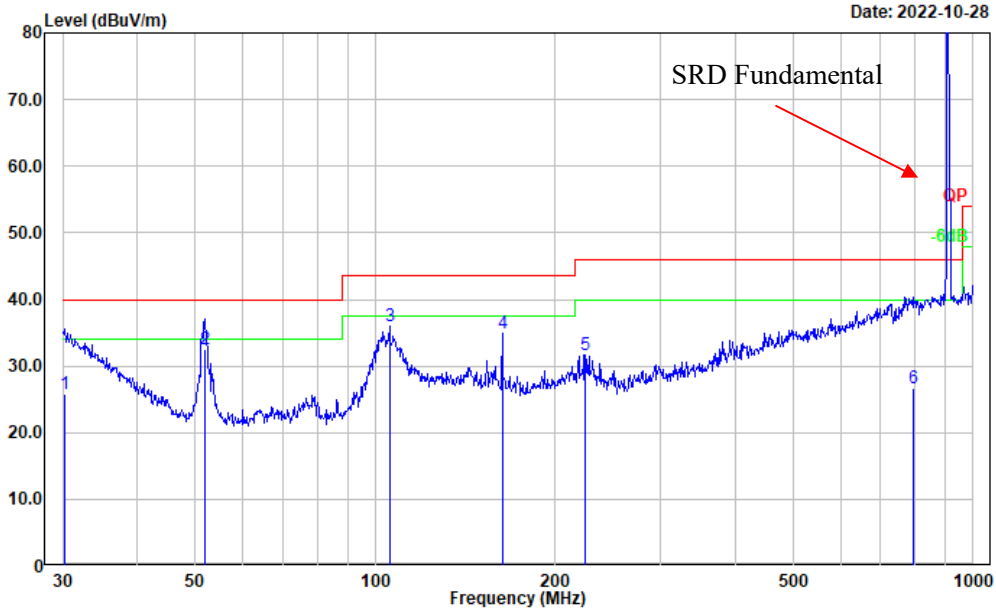
Test Mode: Transmitting
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 30.317 | -2.17 | 27.63 | 25.46 | 40.00 | 14.54 | QP |
| 2 | 54.276 | 23.43 | 14.23 | 37.66 | 40.00 | 2.34 | QP |
| 3 | 105.642 | 12.69 | 18.25 | 30.94 | 43.50 | 12.56 | Peak |
| 4 | 211.527 | 15.76 | 18.85 | 34.61 | 43.50 | 8.89 | Peak |
| 5 | 386.634 | 16.69 | 22.23 | 38.92 | 46.00 | 7.08 | Peak |
| 6 | 782.345 | -1.98 | 28.78 | 26.80 | 46.00 | 19.20 | QP |

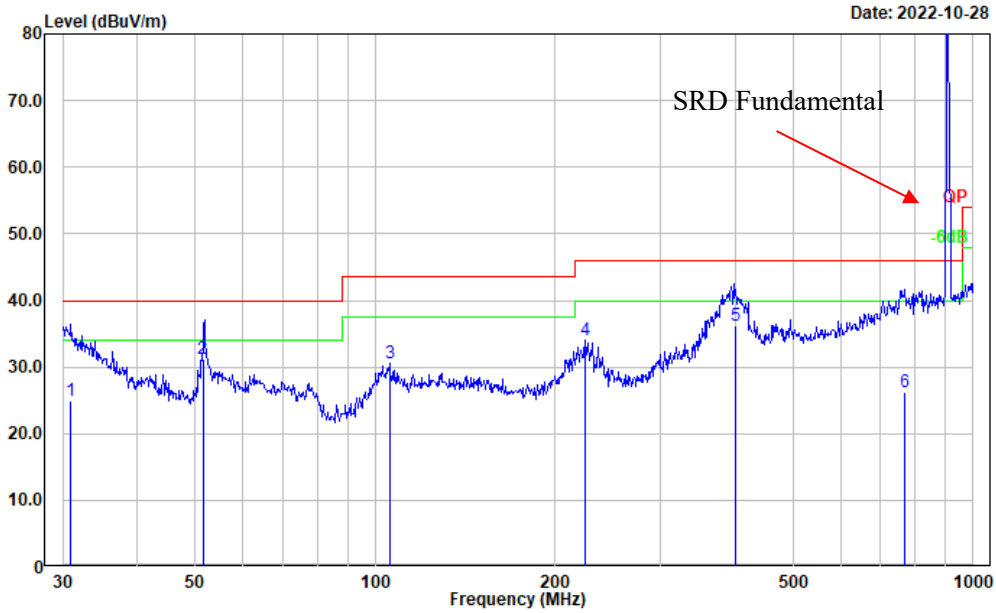
USB-A Power Supply:

Test Mode: Transmitting
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 30.211 | -1.97 | 27.72 | 25.75 | 40.00 | 14.25 | QP |
| 2 | 52.003 | 18.25 | 14.29 | 32.54 | 40.00 | 7.46 | QP |
| 3 | 105.642 | 17.77 | 18.25 | 36.02 | 43.50 | 7.48 | Peak |
| 4 | 163.182 | 15.85 | 19.03 | 34.88 | 43.50 | 8.62 | Peak |
| 5 | 224.519 | 13.04 | 18.63 | 31.67 | 46.00 | 14.33 | Peak |
| 6 | 796.183 | -2.22 | 28.93 | 26.71 | 46.00 | 19.29 | QP |

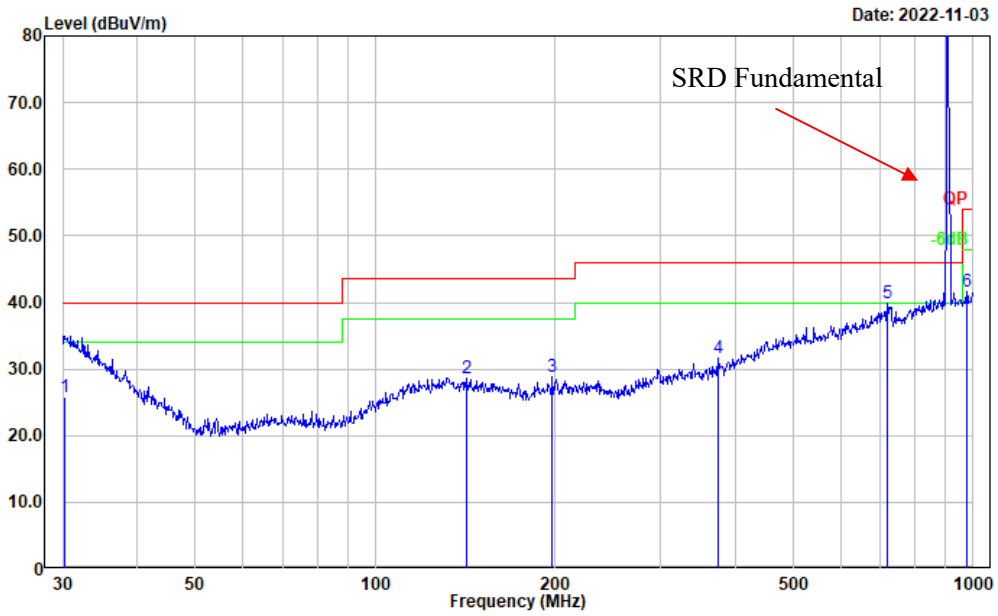
Test Mode: Transmitting
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 30.962 | -2.15 | 27.13 | 24.98 | 40.00 | 15.02 | QP |
| 2 | 51.458 | 16.94 | 14.29 | 31.23 | 40.00 | 8.77 | QP |
| 3 | 105.642 | 12.26 | 18.25 | 30.51 | 43.50 | 12.99 | Peak |
| 4 | 224.519 | 15.35 | 18.63 | 33.98 | 46.00 | 12.02 | Peak |
| 5 | 400.019 | 13.72 | 22.55 | 36.27 | 46.00 | 9.73 | QP |
| 6 | 768.748 | -2.34 | 28.53 | 26.19 | 46.00 | 19.81 | QP |

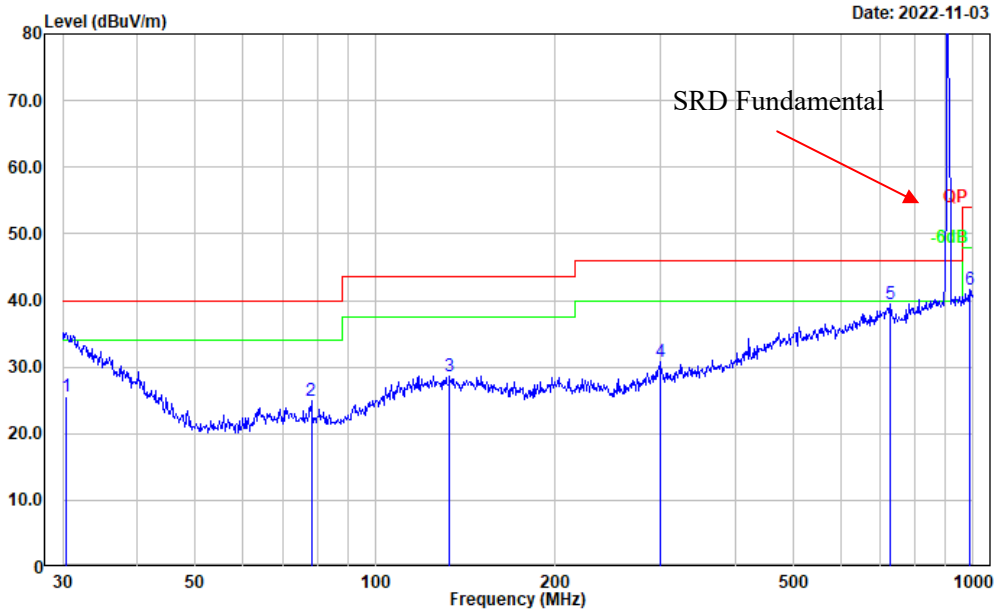
Battery Power Supply:

Test Mode: Transmitting
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 30.211 | -1.93 | 27.72 | 25.79 | 40.00 | 14.21 | QP |
| 2 | 141.826 | 9.13 | 19.58 | 28.71 | 43.50 | 14.79 | Peak |
| 3 | 197.893 | 9.92 | 18.95 | 28.87 | 43.50 | 14.63 | Peak |
| 4 | 374.623 | 9.80 | 21.95 | 31.75 | 46.00 | 14.25 | Peak |
| 5 | 716.682 | 11.92 | 28.00 | 39.92 | 46.00 | 6.08 | Peak |
| 6 | 975.753 | 11.17 | 30.50 | 41.67 | 54.00 | 12.33 | Peak |

Test Mode: Transmitting
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 30.424 | -1.96 | 27.55 | 25.59 | 40.00 | 14.41 | QP |
| 2 | 78.139 | 10.76 | 14.20 | 24.96 | 40.00 | 15.04 | Peak |
| 3 | 133.151 | 8.75 | 19.97 | 28.72 | 43.50 | 14.78 | Peak |
| 4 | 299.316 | 10.06 | 20.65 | 30.71 | 46.00 | 15.29 | Peak |
| 5 | 726.805 | 11.30 | 28.13 | 39.43 | 46.00 | 6.57 | Peak |
| 6 | 986.072 | 11.04 | 30.64 | 41.68 | 54.00 | 12.32 | Peak |

**2) 1-25GHz(USB-C Power Supply was the worst):**
**802.11b Mode:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 2412 MHz | | | | | | | |
| 2412.000 | 68.74 | PK | H | 31.53 | 100.27 | N/A | N/A |
| 2412.000 | 65.20 | AV | H | 31.53 | 96.73 | N/A | N/A |
| 2412.000 | 71.56 | PK | V | 31.53 | 103.09 | N/A | N/A |
| 2412.000 | 68.25 | AV | V | 31.53 | 99.78 | N/A | N/A |
| 2390.000 | 29.36 | PK | V | 31.46 | 60.82 | 74.00 | 13.18 |
| 2390.000 | 17.12 | AV | V | 31.46 | 48.58 | 54.00 | 5.42 |
| 4824.000 | 44.47 | PK | V | 10.94 | 55.41 | 74.00 | 18.59 |
| 4824.000 | 32.24 | AV | V | 10.94 | 43.18 | 54.00 | 10.82 |
| 7236.000 | 34.15 | PK | V | 14.44 | 48.59 | 74.00 | 25.41 |
| 7236.000 | 22.08 | AV | V | 14.44 | 36.52 | 54.00 | 17.48 |
| Middle Channel: 2437 MHz | | | | | | | |
| 2437.000 | 69.02 | PK | H | 31.60 | 100.62 | N/A | N/A |
| 2437.000 | 66.42 | AV | H | 31.60 | 98.02 | N/A | N/A |
| 2437.000 | 71.44 | PK | V | 31.60 | 103.04 | N/A | N/A |
| 2437.000 | 68.24 | AV | V | 31.60 | 99.84 | N/A | N/A |
| 4874.000 | 40.34 | PK | V | 11.05 | 51.39 | 74.00 | 22.61 |
| 4874.000 | 28.17 | AV | V | 11.05 | 39.22 | 54.00 | 14.78 |
| 7311.000 | 33.78 | PK | V | 14.80 | 48.58 | 74.00 | 25.42 |
| 7311.000 | 21.39 | AV | V | 14.80 | 36.19 | 54.00 | 17.81 |
| High Channel: 2462MHz | | | | | | | |
| 2462.000 | 67.45 | PK | H | 31.63 | 99.08 | N/A | N/A |
| 2462.000 | 63.89 | AV | H | 31.63 | 95.52 | N/A | N/A |
| 2462.000 | 72.06 | PK | V | 31.63 | 103.69 | N/A | N/A |
| 2462.000 | 68.78 | AV | V | 31.63 | 100.41 | N/A | N/A |
| 2483.500 | 30.74 | PK | V | 31.64 | 62.38 | 74.00 | 11.62 |
| 2483.500 | 16.33 | AV | V | 31.64 | 47.97 | 54.00 | 6.03 |
| 4924.000 | 41.28 | PK | V | 11.18 | 52.46 | 74.00 | 21.54 |
| 4924.000 | 29.14 | AV | V | 11.18 | 40.32 | 54.00 | 13.68 |
| 7386.000 | 34.25 | PK | V | 14.89 | 49.14 | 74.00 | 24.86 |
| 7386.000 | 22.13 | AV | V | 14.89 | 37.02 | 54.00 | 16.98 |

**802.11g Mode:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 2412 MHz | | | | | | | |
| 2412.000 | 67.74 | PK | H | 31.53 | 99.27 | N/A | N/A |
| 2412.000 | 57.17 | AV | H | 31.53 | 88.70 | N/A | N/A |
| 2412.000 | 69.18 | PK | V | 31.53 | 100.71 | N/A | N/A |
| 2412.000 | 59.74 | AV | V | 31.53 | 91.27 | N/A | N/A |
| 2390.000 | 27.48 | PK | V | 31.46 | 58.94 | 74.00 | 15.06 |
| 2390.000 | 14.35 | AV | V | 31.46 | 45.81 | 54.00 | 8.19 |
| 4824.000 | 36.47 | PK | V | 10.94 | 47.41 | 74.00 | 26.59 |
| 4824.000 | 24.24 | AV | V | 10.94 | 35.18 | 54.00 | 18.82 |
| 7236.000 | 34.08 | PK | V | 14.44 | 48.52 | 74.00 | 25.48 |
| 7236.000 | 22.04 | AV | V | 14.44 | 36.48 | 54.00 | 17.52 |
| Middle Channel: 2437 MHz | | | | | | | |
| 2437.000 | 66.52 | PK | H | 31.60 | 98.12 | N/A | N/A |
| 2437.000 | 56.41 | AV | H | 31.60 | 88.01 | N/A | N/A |
| 2437.000 | 68.47 | PK | V | 31.60 | 100.07 | N/A | N/A |
| 2437.000 | 58.39 | AV | V | 31.60 | 89.99 | N/A | N/A |
| 4874.000 | 35.45 | PK | V | 11.05 | 46.50 | 74.00 | 27.50 |
| 4874.000 | 23.23 | AV | V | 11.05 | 34.28 | 54.00 | 19.72 |
| 7311.000 | 34.13 | PK | V | 14.80 | 48.93 | 74.00 | 25.07 |
| 7311.000 | 22.07 | AV | V | 14.80 | 36.87 | 54.00 | 17.13 |
| High Channel: 2462MHz | | | | | | | |
| 2462.000 | 65.12 | PK | H | 31.63 | 96.75 | N/A | N/A |
| 2462.000 | 55.28 | AV | H | 31.63 | 86.91 | N/A | N/A |
| 2462.000 | 68.56 | PK | V | 31.63 | 100.19 | N/A | N/A |
| 2462.000 | 58.24 | AV | V | 31.63 | 89.87 | N/A | N/A |
| 2483.500 | 29.43 | PK | V | 31.64 | 61.07 | 74.00 | 12.93 |
| 2483.500 | 16.44 | AV | V | 31.64 | 48.08 | 54.00 | 5.92 |
| 4924.000 | 37.42 | PK | V | 11.18 | 48.60 | 74.00 | 25.40 |
| 4924.000 | 25.21 | AV | V | 11.18 | 36.39 | 54.00 | 17.61 |
| 7386.000 | 33.78 | PK | V | 14.89 | 48.67 | 74.00 | 25.33 |
| 7386.000 | 21.39 | AV | V | 14.89 | 36.28 | 54.00 | 17.72 |

**802.11n ht20 Mode:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 2412 MHz | | | | | | | |
| 2412.000 | 65.23 | PK | H | 31.53 | 96.76 | N/A | N/A |
| 2412.000 | 55.52 | AV | H | 31.53 | 87.05 | N/A | N/A |
| 2412.000 | 68.22 | PK | V | 31.53 | 99.75 | N/A | N/A |
| 2412.000 | 58.74 | AV | V | 31.53 | 90.27 | N/A | N/A |
| 2390.000 | 27.28 | PK | V | 31.46 | 58.74 | 74.00 | 15.26 |
| 2390.000 | 15.34 | AV | V | 31.46 | 46.80 | 54.00 | 7.20 |
| 4824.000 | 35.74 | PK | V | 10.94 | 46.68 | 74.00 | 27.32 |
| 4824.000 | 23.37 | AV | V | 10.94 | 34.31 | 54.00 | 19.69 |
| 7236.000 | 34.12 | PK | V | 14.44 | 48.56 | 74.00 | 25.44 |
| 7236.000 | 22.06 | AV | V | 14.44 | 36.50 | 54.00 | 17.50 |
| Middle Channel: 2437 MHz | | | | | | | |
| 2437.000 | 66.73 | PK | H | 31.60 | 98.33 | N/A | N/A |
| 2437.000 | 56.07 | AV | H | 31.60 | 87.67 | N/A | N/A |
| 2437.000 | 69.14 | PK | V | 31.60 | 100.74 | N/A | N/A |
| 2437.000 | 59.34 | AV | V | 31.60 | 90.94 | N/A | N/A |
| 4874.000 | 37.55 | PK | V | 11.05 | 48.60 | 74.00 | 25.40 |
| 4874.000 | 25.28 | AV | V | 11.05 | 36.33 | 54.00 | 17.67 |
| 7311.000 | 34.44 | PK | V | 14.80 | 49.24 | 74.00 | 24.76 |
| 7311.000 | 22.22 | AV | V | 14.80 | 37.02 | 54.00 | 16.98 |
| High Channel: 2462MHz | | | | | | | |
| 2462.000 | 64.68 | PK | H | 31.63 | 96.31 | N/A | N/A |
| 2462.000 | 54.39 | AV | H | 31.63 | 86.02 | N/A | N/A |
| 2462.000 | 68.79 | PK | V | 31.63 | 100.42 | N/A | N/A |
| 2462.000 | 58.61 | AV | V | 31.63 | 90.24 | N/A | N/A |
| 2483.500 | 26.45 | PK | V | 31.64 | 58.09 | 74.00 | 15.91 |
| 2483.500 | 14.23 | AV | V | 31.64 | 45.87 | 54.00 | 8.13 |
| 4924.000 | 36.35 | PK | V | 11.18 | 47.53 | 74.00 | 26.47 |
| 4924.000 | 24.18 | AV | V | 11.18 | 35.36 | 54.00 | 18.64 |
| 7386.000 | 34.31 | PK | V | 14.89 | 49.20 | 74.00 | 24.80 |
| 7386.000 | 22.16 | AV | V | 14.89 | 37.05 | 54.00 | 16.95 |

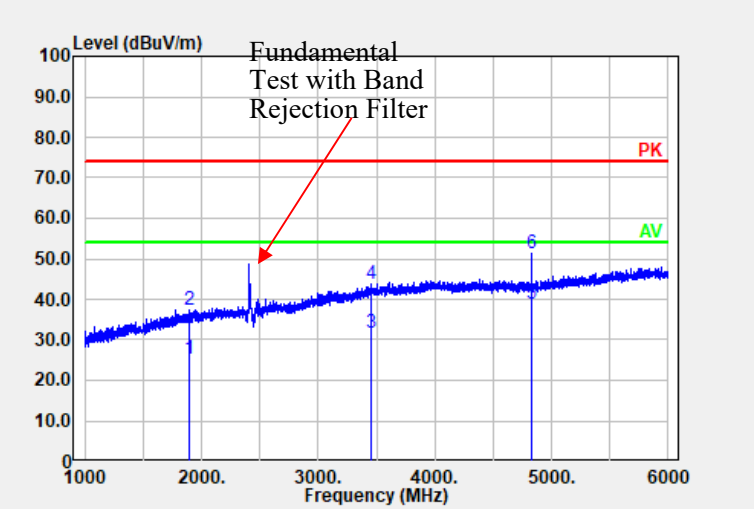
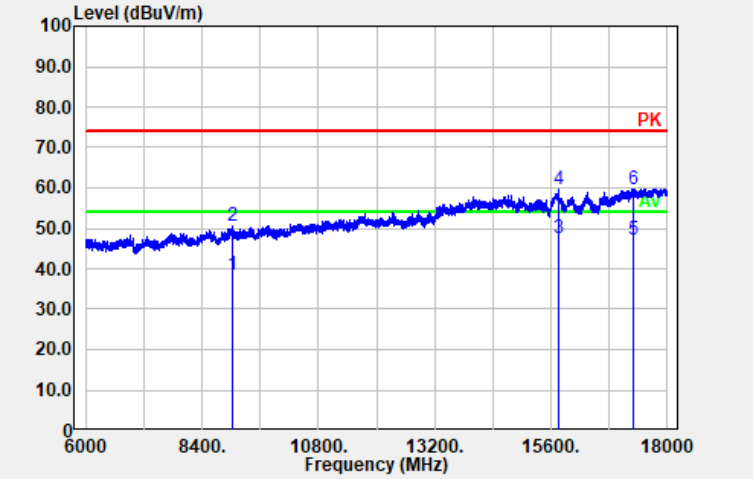
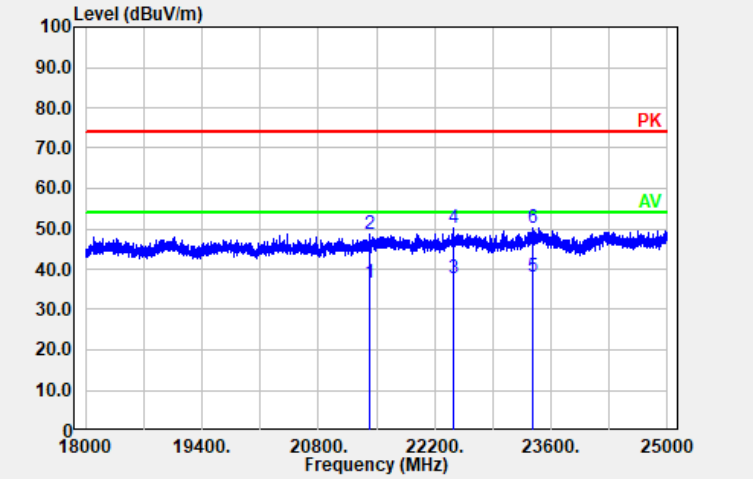
**BLE 1Mbps:**

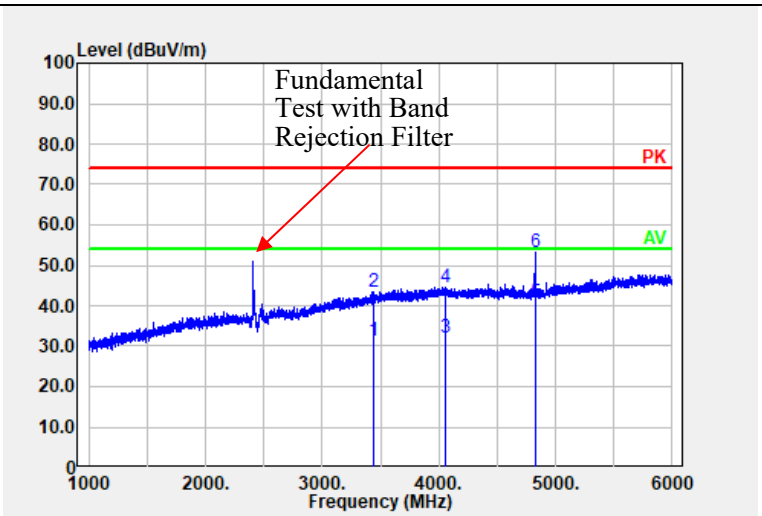
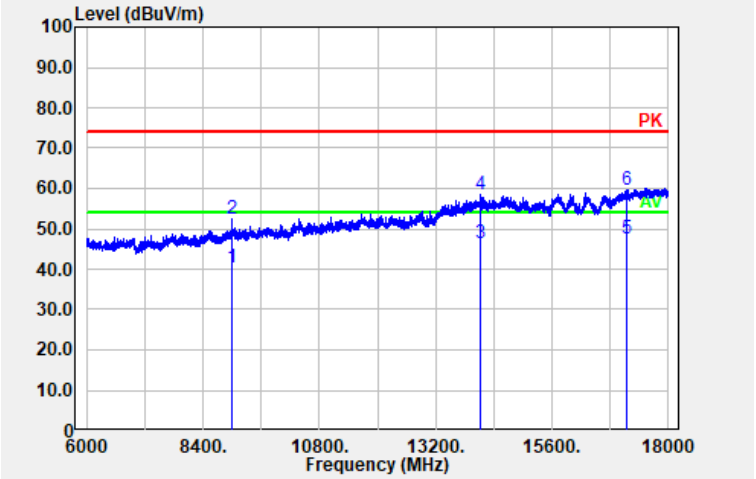
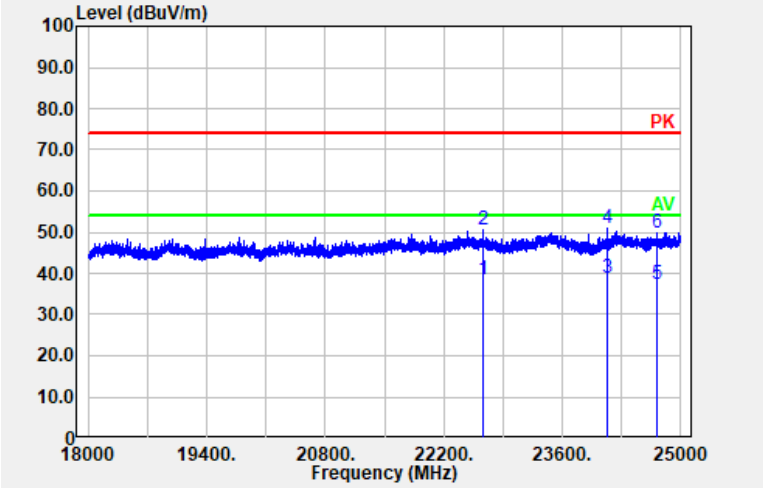
| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 2402 MHz | | | | | | | |
| 2402.000 | 65.24 | PK | H | 31.51 | 96.75 | N/A | N/A |
| 2402.000 | 62.06 | AV | H | 31.51 | 93.57 | N/A | N/A |
| 2402.000 | 67.45 | PK | V | 31.51 | 98.96 | N/A | N/A |
| 2402.000 | 64.78 | AV | V | 31.51 | 96.29 | N/A | N/A |
| 2390.000 | 25.36 | PK | V | 31.46 | 56.82 | 74.00 | 17.18 |
| 2390.000 | 14.12 | AV | V | 31.46 | 45.58 | 54.00 | 8.42 |
| 4804.000 | 40.65 | PK | V | 10.91 | 51.56 | 74.00 | 22.44 |
| 4804.000 | 28.33 | AV | V | 10.91 | 39.24 | 54.00 | 14.76 |
| 7206.000 | 34.17 | PK | V | 14.22 | 48.39 | 74.00 | 25.61 |
| 7206.000 | 22.09 | AV | V | 14.22 | 36.31 | 54.00 | 17.69 |
| Middle Channel: 2440 MHz | | | | | | | |
| 2440.000 | 67.02 | PK | H | 31.60 | 98.62 | N/A | N/A |
| 2440.000 | 64.23 | AV | H | 31.60 | 95.83 | N/A | N/A |
| 2440.000 | 68.78 | PK | V | 31.60 | 100.38 | N/A | N/A |
| 2440.000 | 65.45 | AV | V | 31.60 | 97.05 | N/A | N/A |
| 4880.000 | 37.52 | PK | V | 11.07 | 48.59 | 74.00 | 25.41 |
| 4880.000 | 25.26 | AV | V | 11.07 | 36.33 | 54.00 | 17.67 |
| 7320.000 | 24.26 | PK | V | 14.80 | 39.06 | 74.00 | 34.94 |
| 7320.000 | 22.13 | AV | V | 14.80 | 36.93 | 54.00 | 17.07 |
| High Channel: 2480 MHz | | | | | | | |
| 2480.000 | 64.49 | PK | H | 31.64 | 96.13 | N/A | N/A |
| 2480.000 | 62.30 | AV | H | 31.64 | 93.94 | N/A | N/A |
| 2480.000 | 66.49 | PK | V | 31.64 | 98.13 | N/A | N/A |
| 2480.000 | 64.75 | AV | V | 31.64 | 96.39 | N/A | N/A |
| 2483.500 | 27.33 | PK | V | 31.64 | 58.97 | 74.00 | 15.03 |
| 2483.500 | 14.56 | AV | V | 31.64 | 46.20 | 54.00 | 7.80 |
| 4960.000 | 39.46 | PK | V | 11.23 | 50.69 | 74.00 | 23.31 |
| 4960.000 | 27.23 | AV | V | 11.23 | 38.46 | 54.00 | 15.54 |
| 7440.000 | 34.01 | PK | V | 15.26 | 49.27 | 74.00 | 24.73 |
| 7440.000 | 22.02 | AV | V | 15.26 | 37.28 | 54.00 | 16.72 |

Simultaneous Transmission:

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Worst 802.11b Low Channel+ SRD Low Channel | | | | | | | |
| 1805.200 | 56.98 | PK | H | 1.31 | 58.29 | 74.00 | 15.71 |
| 1805.200 | 48.92 | AV | H | 1.31 | 50.23 | 54.00 | 3.77 |
| 1805.200 | 50.36 | PK | V | 1.31 | 51.67 | 74.00 | 22.33 |
| 1805.200 | 43.14 | AV | V | 1.31 | 44.45 | 54.00 | 9.55 |
| 4824.000 | 44.39 | PK | V | 10.94 | 55.33 | 74.00 | 18.67 |
| 4824.000 | 32.10 | AV | V | 10.94 | 43.04 | 54.00 | 10.96 |
| 7236.000 | 34.36 | PK | V | 14.44 | 48.80 | 74.00 | 25.20 |
| 7236.000 | 22.15 | AV | V | 14.44 | 36.59 | 54.00 | 17.41 |

**Worst Test plots**(802.11b mode Low channel was the worst)

| Horizontal | |
|---|---|
| 1-6GHz |  |
| 6-18GHz |  |
| 18-25GHz |  |

| Vertical | |
|---|---|
| 1-6GHz |  |
| 6-18GHz |  |
| 18-25GHz |  |

## 4.3 6 dB Emission Bandwidth:

| | | | |
|---|---|---|---|
| Serial Number: | CR221045858-RF-S1 | Test Date: | 2022/11/1 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Claire Liu | Test Result: | Pass |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 24.3~25.3 | Relative Humidity: (%) | 39~41 | ATM Pressure: (kPa) | 100.4 |

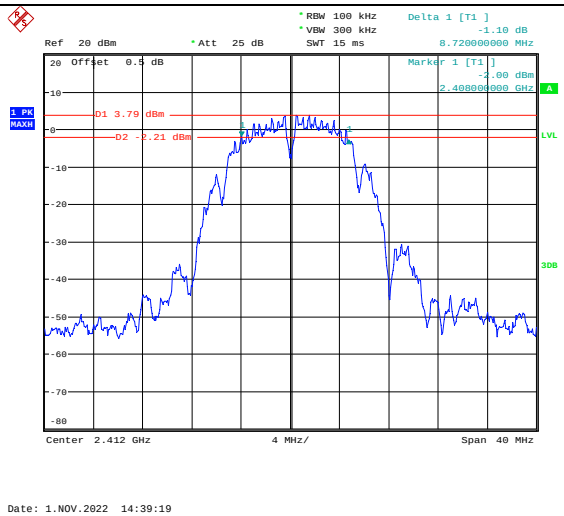
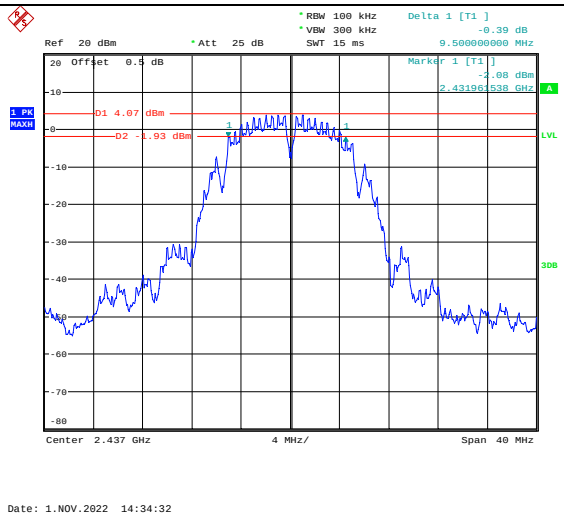
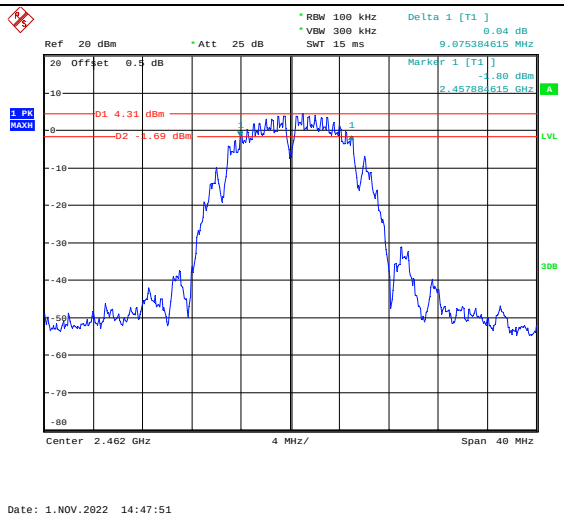
**Test Equipment List and Details:**

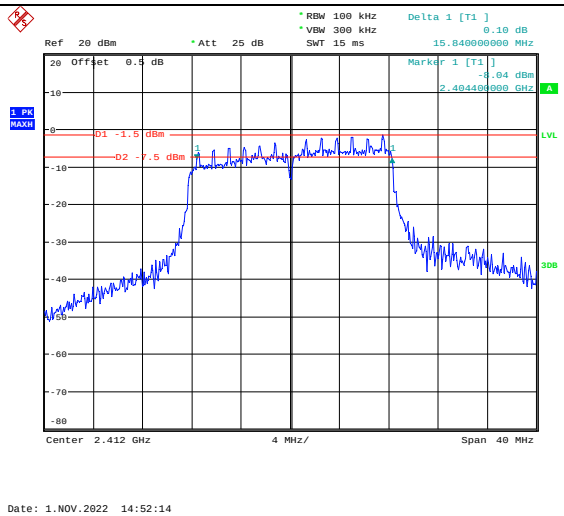
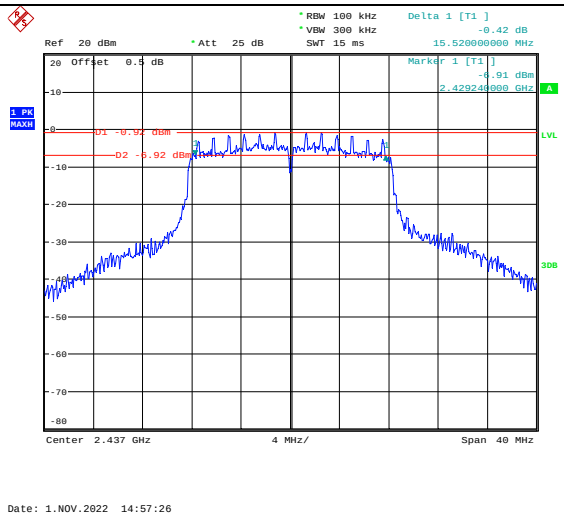
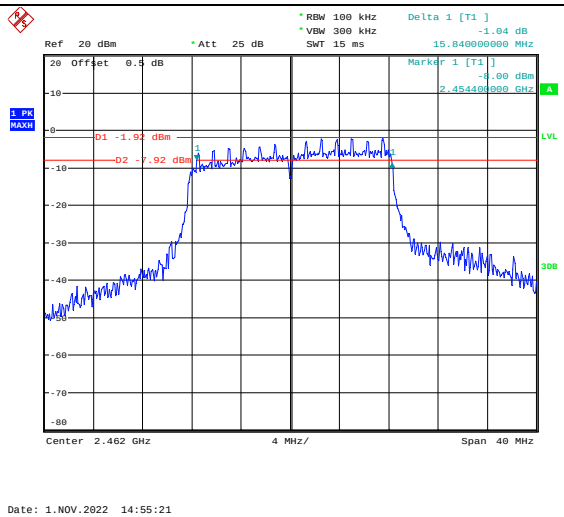
| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| R&S | Spectrum Analyzer | FSU26 | 200256 | 2022/07/15 | 2023/07/14 |
| zhuoxiang | Coaxial Cable | SMA-178 | 211001 | Each time | N/A |

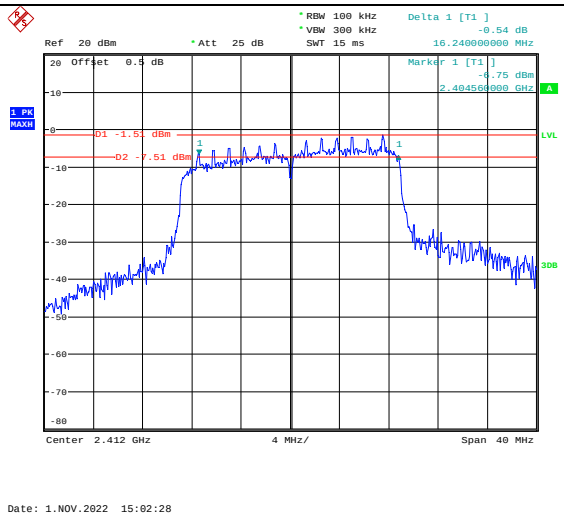
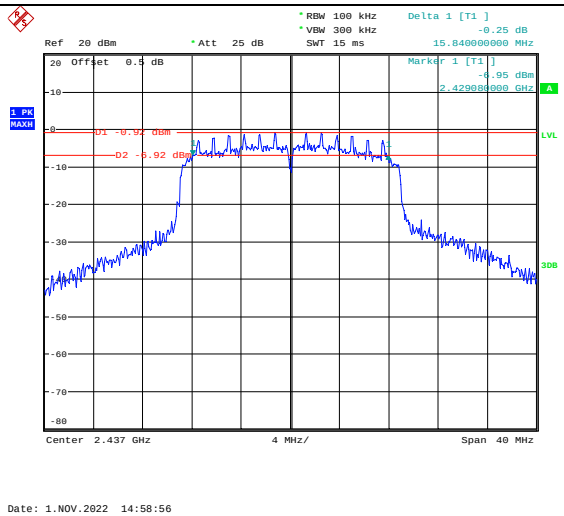
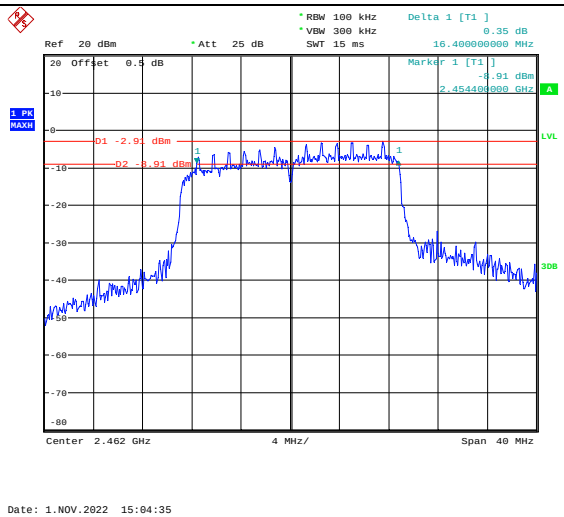
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

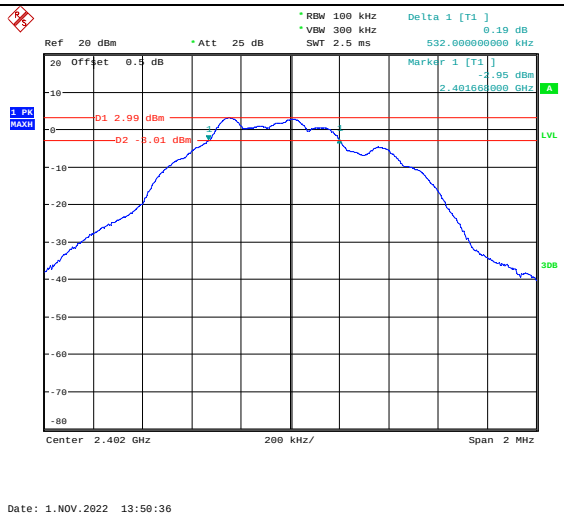
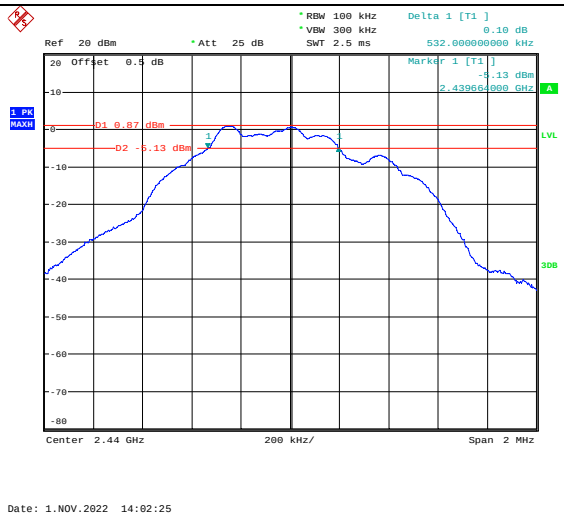
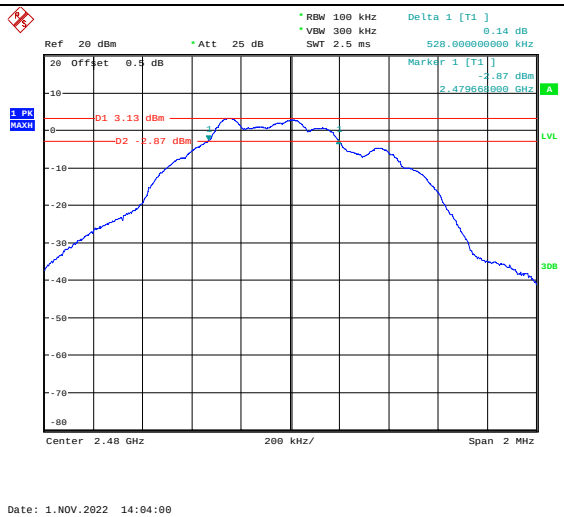
**Test Data:**

| Test Modes | Test Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) |
|---|---|---|---|
| 802.11b | 2412 | 8.720 | 0.5 |
| | 2437 | 9.500 | 0.5 |
| | 2462 | 9.075 | 0.5 |
| 802.11g | 2412 | 15.840 | 0.5 |
| | 2437 | 15.520 | 0.5 |
| | 2462 | 15.840 | 0.5 |
| 802.11n ht20 | 2412 | 16.240 | 0.5 |
| | 2437 | 15.840 | 0.5 |
| | 2462 | 16.400 | 0.5 |
| BLE 1Mbps | 2402 | 0.532 | 0.5 |
| | 2440 | 0.532 | 0.5 |
| | 2480 | 0.528 | 0.5 |

| 6dB Emission Bandwidth | |
|---|---|
| 802.11b<br>Lowest Channel |  |
| 802.11b<br>Middle Channel |  |
| 802.11b<br>Highest Channel |  |

| 6dB Emission Bandwidth | |
|---|---|
| 802.11g<br>Lowest Channel |  |
| 802.11g<br>Middle Channel |  |
| 802.11g<br>Highest Channel |  |

| 6dB Emission Bandwidth | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  |
| 802.11n ht20<br>Middle Channel |  |
| 802.11n ht20<br>Highest Channel |  |

| 6dB Emission Bandwidth | |
|---|---|
| BLE 1Mbps<br>Lowest Channel |  |
| BLE 1Mbps<br>Middle Channel |  |
| BLE 1Mbps<br>Highest Channel |  |

## 4.4 99% Occupied Bandwidth:

| | | | |
|---|---|---|---|
| Serial Number: | CR221045858-RF-S1 | Test Date: | 2022/11/1 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Claire Liu | Test Result: | N/A |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 24.3~25.3 | Relative Humidity: (%) | 39~41 | ATM Pressure: (kPa) | 100.4 |

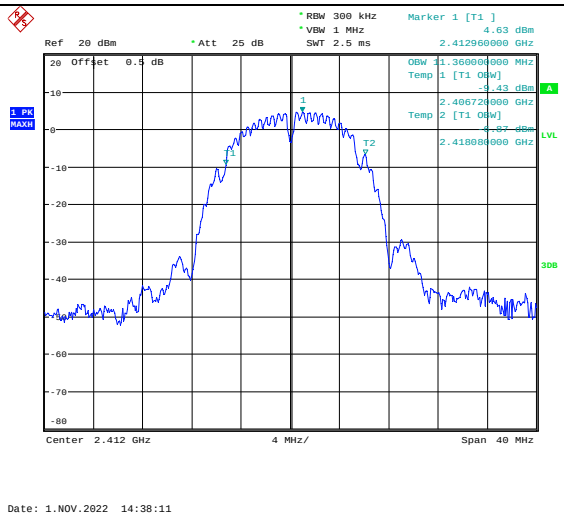
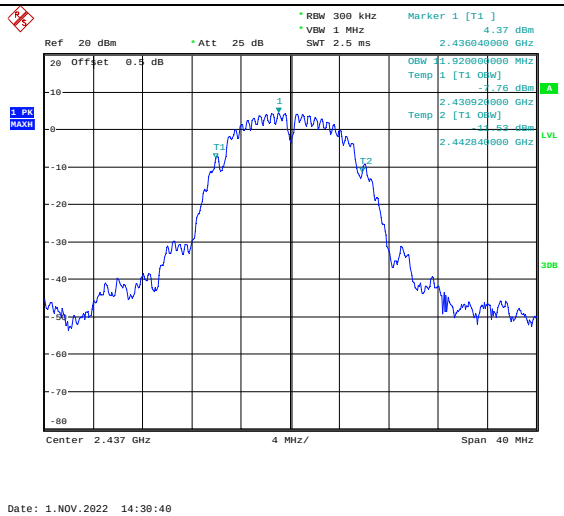
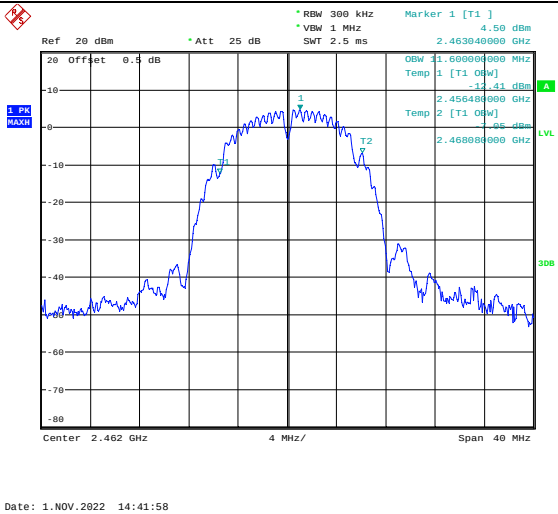
**Test Equipment List and Details:**

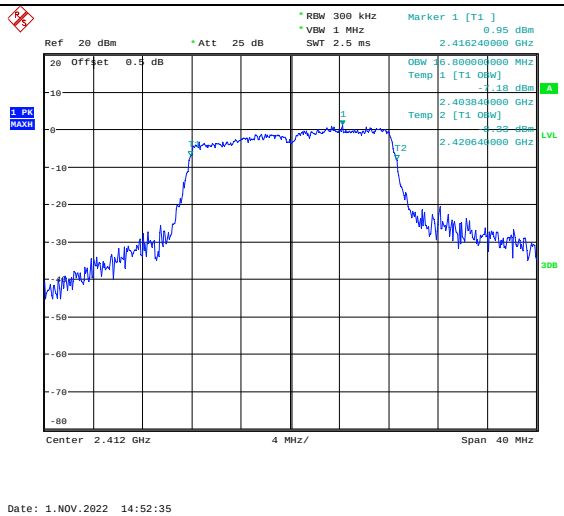
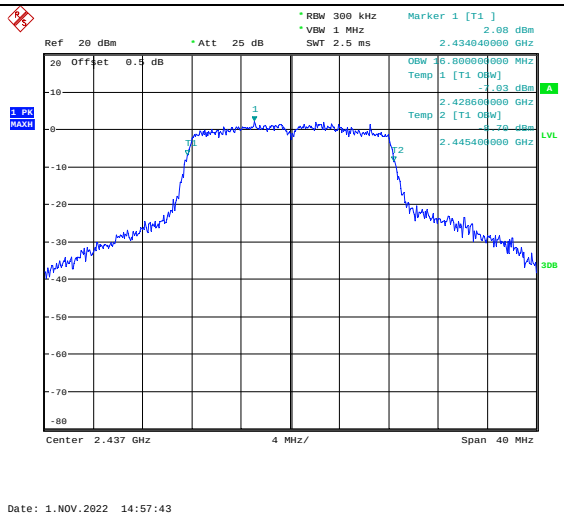
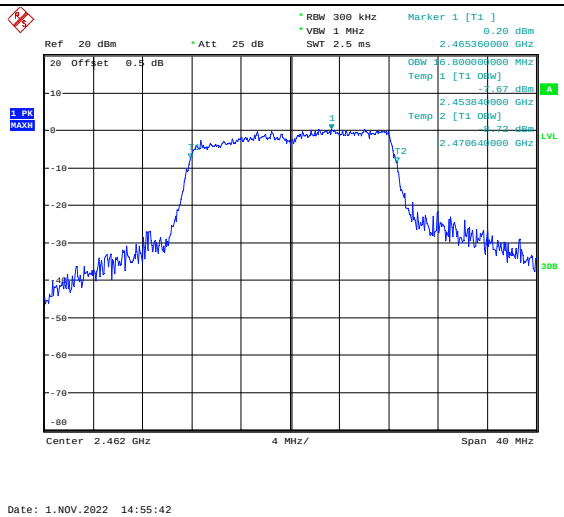
| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| R&S | Spectrum Analyzer | FSU26 | 200256 | 2022/07/15 | 2023/07/14 |
| zhuoxiang | Coaxial Cable | SMA-178 | 211001 | Each time | N/A |

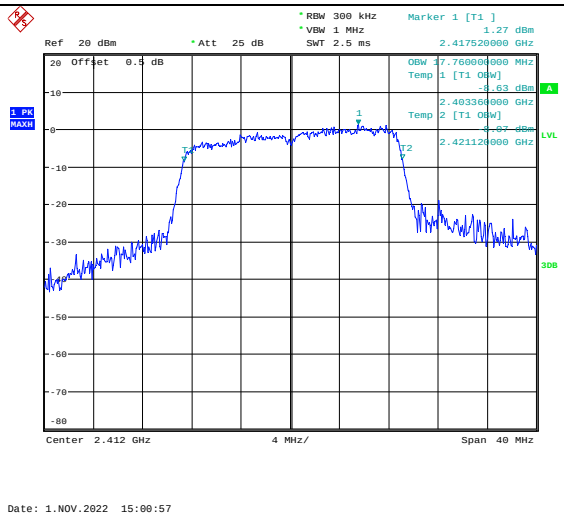
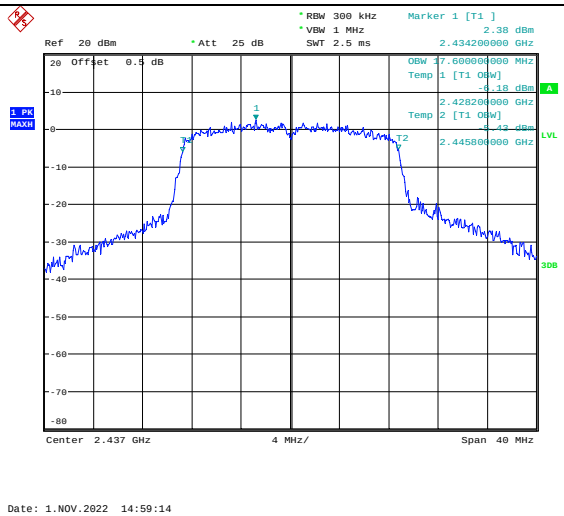
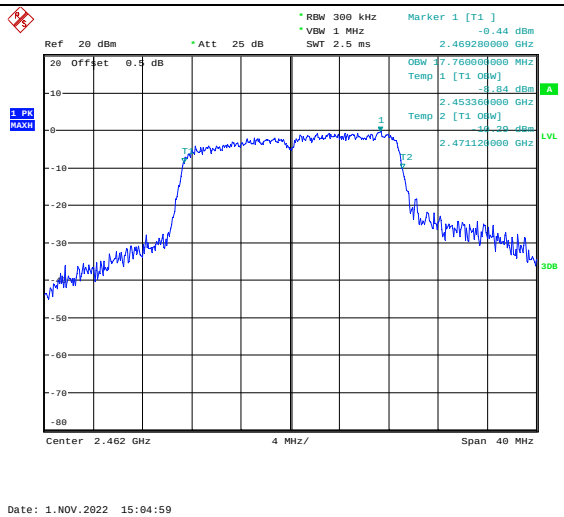
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

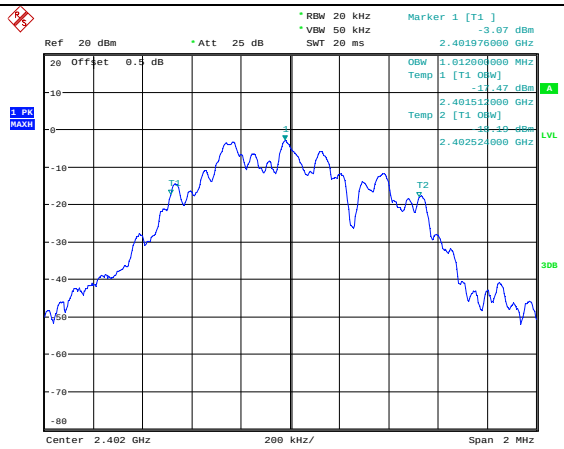
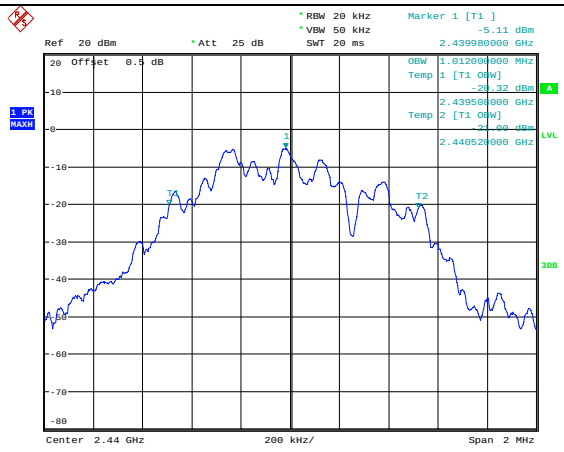
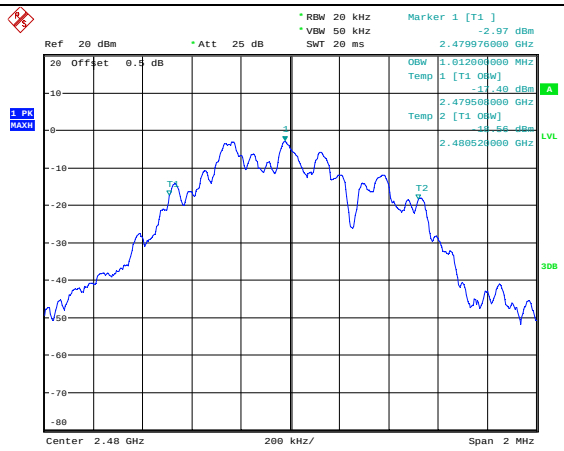
**Test Data:**

| Test Modes | Test Frequency (MHz) | 99% Occupied Bandwidth (MHz) |
|---|---|---|
| 802.11b | 2412 | 11.360 |
| | 2437 | 11.920 |
| | 2462 | 11.600 |
| 802.11g | 2412 | 16.800 |
| | 2437 | 16.800 |
| | 2462 | 16.800 |
| 802.11n ht20 | 2412 | 17.760 |
| | 2437 | 17.600 |
| | 2462 | 17.760 |
| BLE 1Mbps | 2402 | 1.012 |
| | 2440 | 1.012 |
| | 2480 | 1.012 |

| 99% Occupied Bandwidth | |
|---|---|
| 802.11b<br>Lowest Channel |  |
| 802.11b<br>Middle Channel |  |
| 802.11b<br>Highest Channel |  |

| 99% Occupied Bandwidth | |
|---|---|
| 802.11g<br>Lowest Channel |  |
| 802.11g<br>Middle Channel |  |
| 802.11g<br>Highest Channel |  |

| 99% Occupied Bandwidth | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  |
| 802.11n ht20<br>Middle Channel |  |
| 802.11n ht20<br>Highest Channel |  |

| 99% Occupied Bandwidth | |
|---|---|
| BLE 1Mbps<br>Lowest Channel |  |
| BLE 1Mbps<br>Middle Channel |  |
| BLE 1Mbps<br>Highest Channel |  |

## 4.5 Maximum conducted output power:

| | | | |
|---|---|---|---|
| Serial Number: | CR221045858-RF-S1 | Test Date: | 2022/11/1 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Claire Liu | Test Result: | Pass |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 24.3~25.3 | Relative Humidity: (%) | 39~41 | ATM Pressure: (kPa) | 100.4 |

**Test Equipment List and Details:**

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| zhuoxiang | Coaxial Cable | SMA-178 | 211001 | Each time | N/A |
| eastsheep | Coaxial Attenuator | 2W-SMA-JK-18G | 21060301 | Each time | N/A |
| Agilent | USB Wideband Power Sensor | U2021XA | MY54080015 | 2022/07/15 | 2023/07/14 |

** 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) | Maximum Conducted Peak Output Power (dBm) | Limit (dBm) |
|---|---|---|---|
| 802.11b | 2412 | 16.51 | 30 |
| | 2437 | 16.55 | 30 |
| | 2462 | 16.67 | 30 |
| 802.11g | 2412 | 16.61 | 30 |
| | 2437 | 16.82 | 30 |
| | 2462 | 16.48 | 30 |
| 802.11n ht20 | 2412 | 16.88 | 30 |
| | 2437 | 16.95 | 30 |
| | 2462 | 16.13 | 30 |
| BLE | 2402 | 3.68 | 30 |
| | 2440 | 1.51 | 30 |
| | 2480 | 3.71 | 30 |

## 4.5 Maximum power spectral density:

| | | | |
|---|---|---|---|
| Serial Number: | CR221045858-RF-S1 | Test Date: | 2022/11/1 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Claire Liu | Test Result: | Pass |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 24.3~25.3 | Relative Humidity: (%) | 39~41 | ATM Pressure: (kPa) | 100.4 |

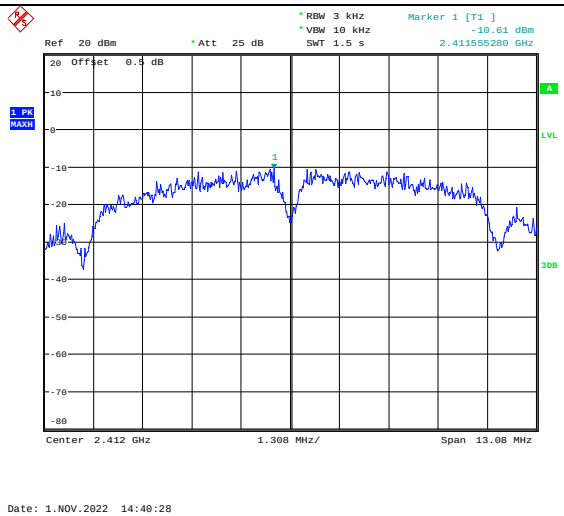
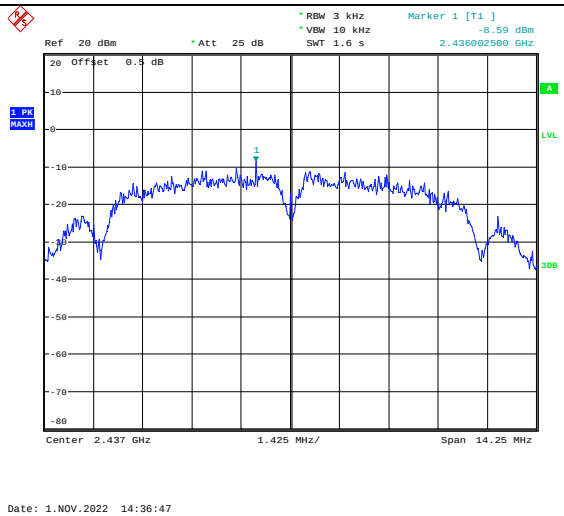
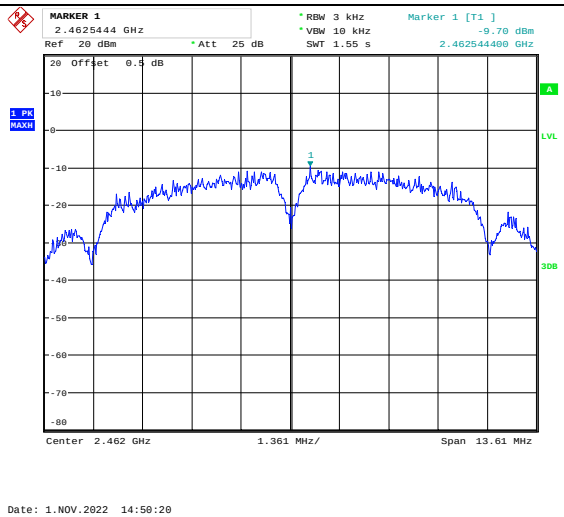
**Test Equipment List and Details:**

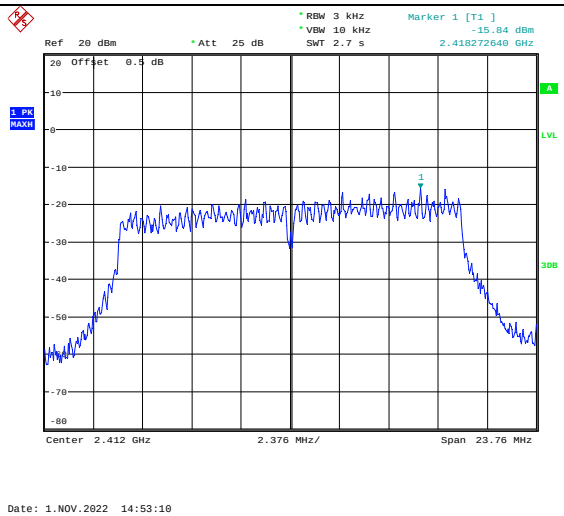
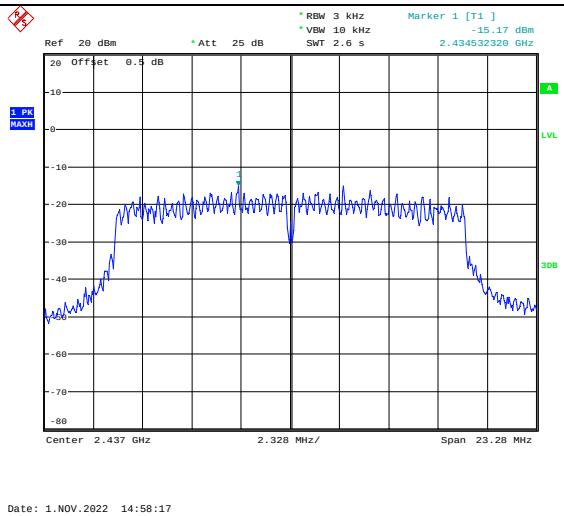
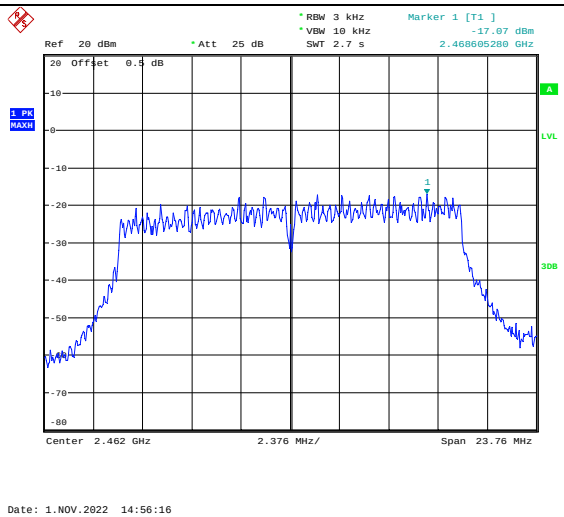
| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| R&S | Spectrum Analyzer | FSU26 | 200256 | 2022/07/15 | 2023/07/14 |
| zhuoxiang | Coaxial Cable | SMA-178 | 211001 | Each time | N/A |

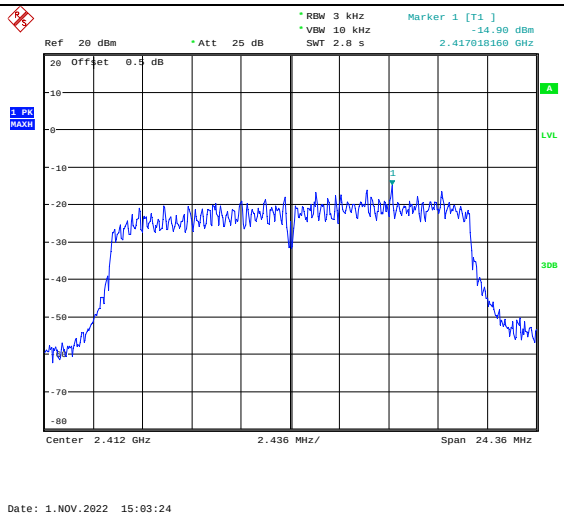
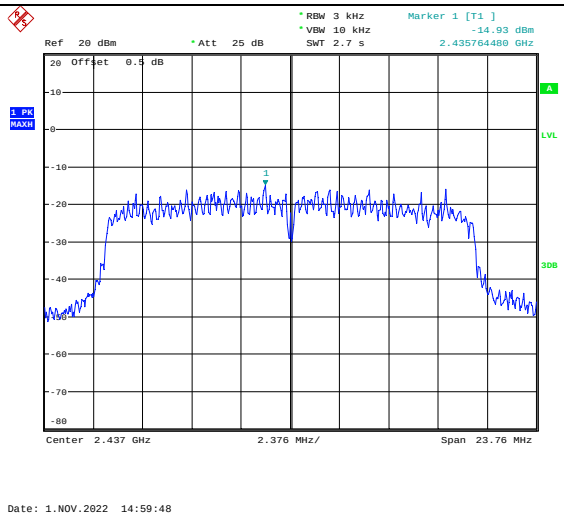
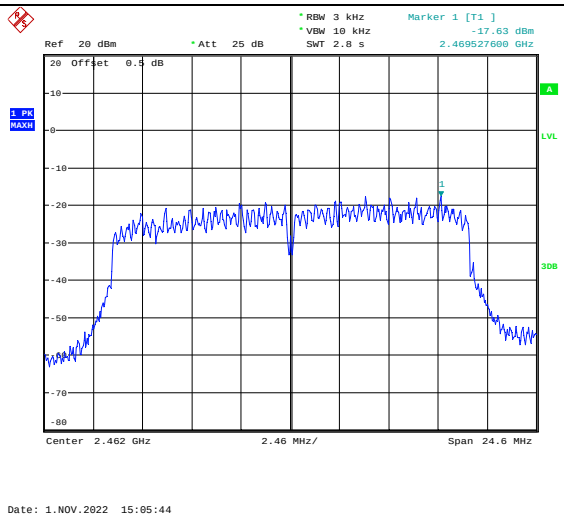
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

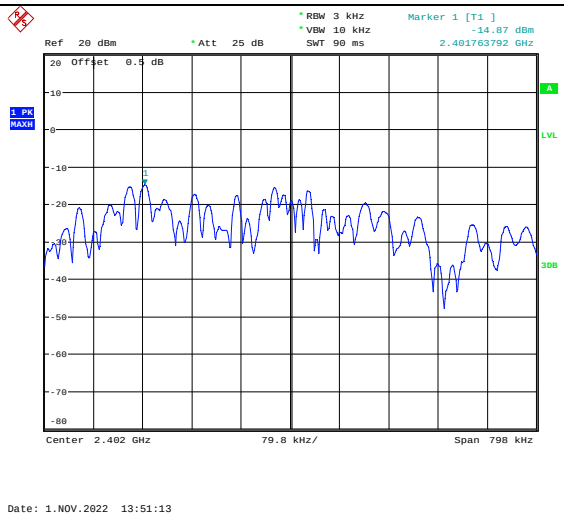
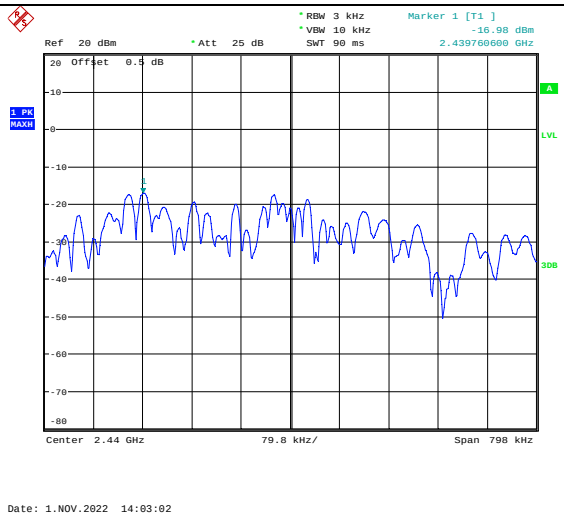
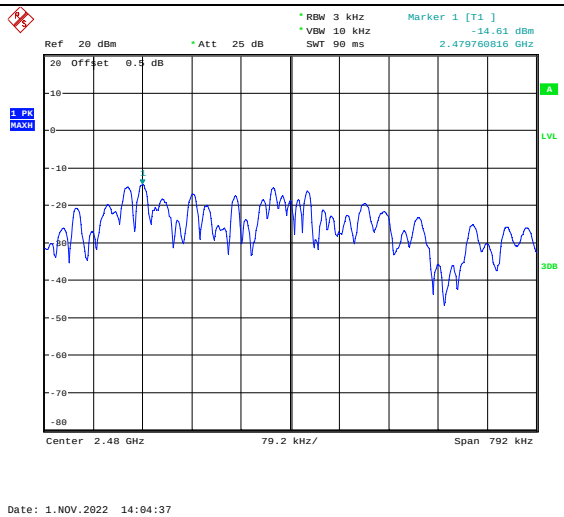
**Test Data:**

| Test Modes | Test Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) |
|---|---|---|---|
| 802.11b | 2412 | -10.61 | 8.00 |
| | 2437 | -8.59 | 8.00 |
| | 2462 | -9.70 | 8.00 |
| 802.11g | 2412 | -15.84 | 8.00 |
| | 2437 | -15.17 | 8.00 |
| | 2462 | -17.07 | 8.00 |
| 802.11n ht20 | 2412 | -14.90 | 8.00 |
| | 2437 | -14.93 | 8.00 |
| | 2462 | -17.63 | 8.00 |
| BLE 1Mbps | 2402 | -14.87 | 8.00 |
| | 2440 | -16.98 | 8.00 |
| | 2480 | -14.61 | 8.00 |

| Maximum power spectral density | |
|---|---|
| 802.11b<br>Lowest Channel |  |
| 802.11b<br>Middle Channel |  |
| 802.11b<br>Highest Channel |  |

| Maximum power spectral density | |
|---|---|
| 802.11g<br>Lowest Channel |  |
| 802.11g<br>Middle Channel |  |
| 802.11g<br>Highest Channel |  |

| Maximum power spectral density | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  |
| 802.11n ht20<br>Middle Channel |  |
| 802.11n ht20<br>Highest Channel |  |

| Maximum power spectral density | |
|---|---|
| BLE 1Mbps<br>Lowest Channel |  |
| BLE 1Mbps<br>Middle Channel |  |
| BLE 1Mbps<br>Highest Channel |  |

## 4.6 100 kHz Bandwidth of Frequency Band Edge:

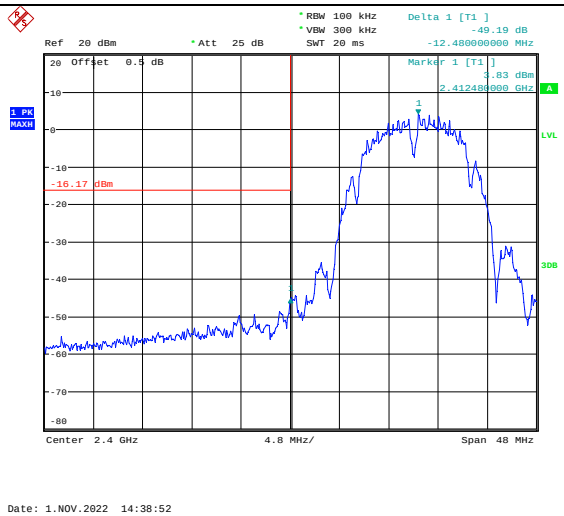
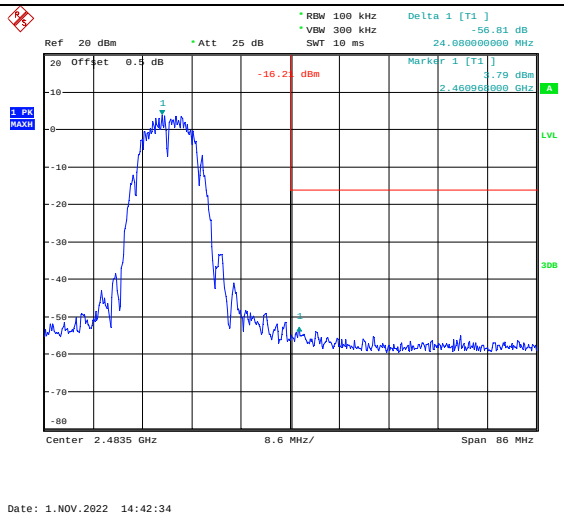
| | | | |
|---|---|---|---|
| Serial Number: | CR221045858-RF-S1 | Test Date: | 2022/11/1 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Claire Liu | Test Result: | Pass |

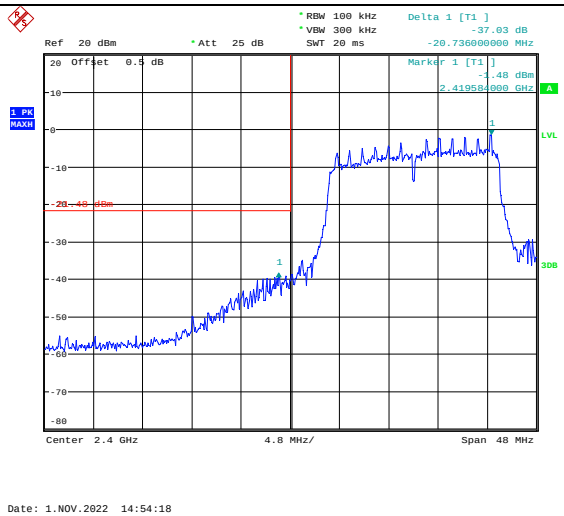
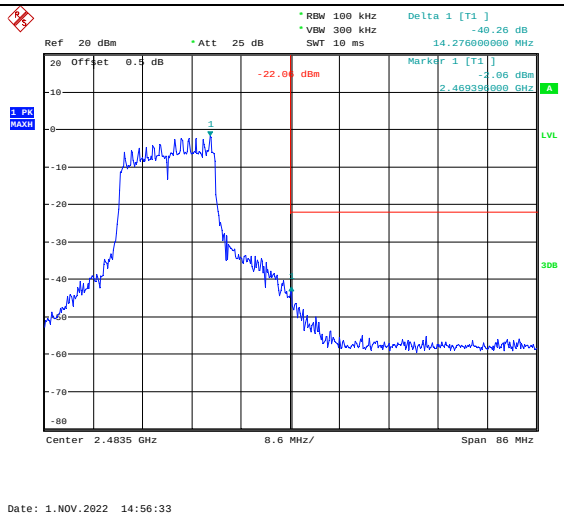
| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 24.3~25.3 | Relative Humidity: (%) | 39~41 | ATM Pressure: (kPa) | 100.4 |

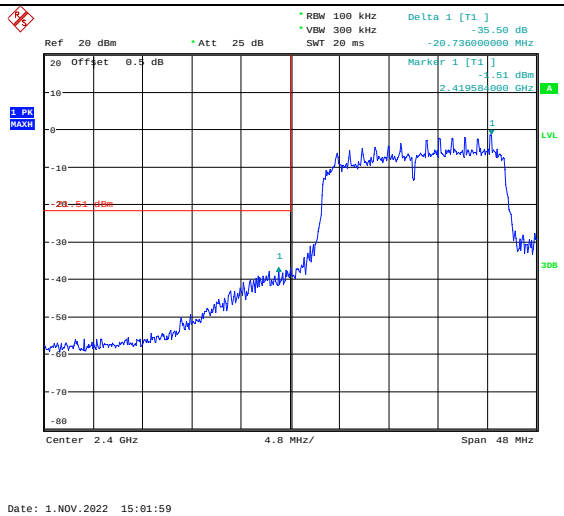
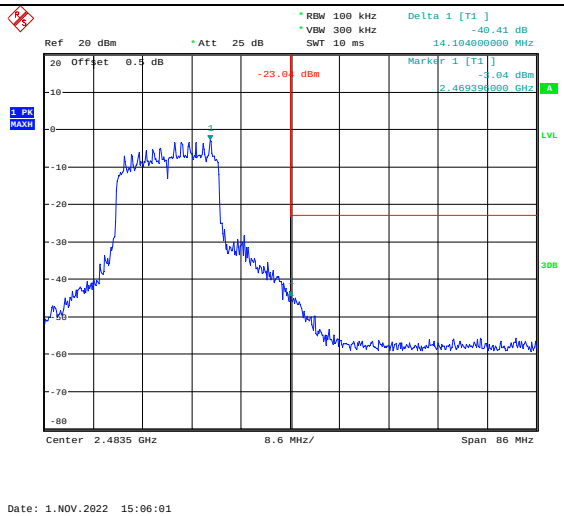
**Test Equipment List and Details:**

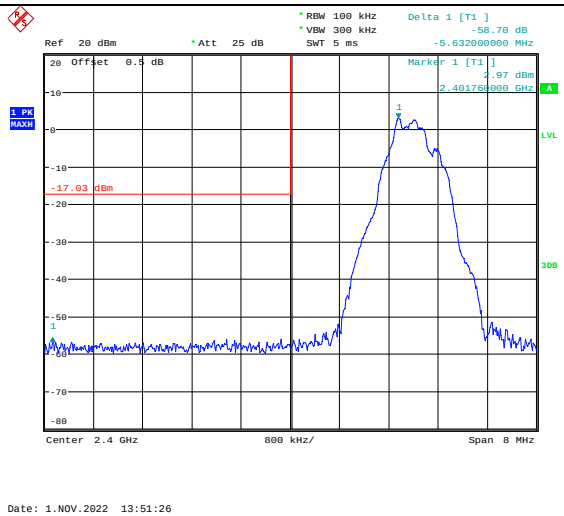
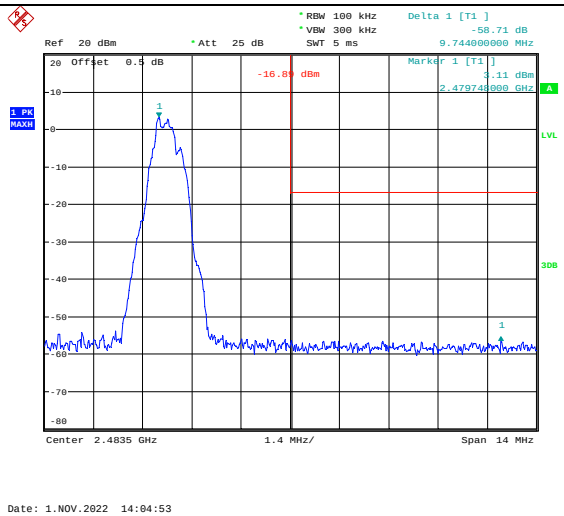
| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| R&S | Spectrum Analyzer | FSU26 | 200256 | 2022/07/15 | 2023/07/14 |
| zhuoxiang | Coaxial Cable | SMA-178 | 211001 | Each time | N/A |

** 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).*

| 100 kHz Bandwidth of Frequency Band Edge | |
|---|---|
| 802.11b<br>Lowest Band edge |  |
| 802.11b<br>Highest Band edge |  |

| 100 kHz Bandwidth of Frequency Band Edge | |
|---|---|
| 802.11g<br>Lowest Band edge |  |
| 802.11g<br>Highest Band edge |  |

| 100 kHz Bandwidth of Frequency Band Edge | |
|---|---|
| 802.11n ht20<br>Lowest Band edge |  |
| 802.11n ht20<br>Highest Band edge |  |

| 100 kHz Bandwidth of Frequency Band Edge | |
|---|---|
| BLE 1Mbps<br>Lowest Band edge |  |
| BLE 1Mbps<br>Highest Band edge |  |

## 4.7 Duty Cycle:

| | | | |
|---|---|---|---|
| Serial Number: | CR221045858-RF-S1 | Test Date: | 2022/11/1 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Claire Liu | Test Result: | N/A |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 24.3~25.3 | Relative Humidity: (%) | 39~41 | ATM Pressure: (kPa) | 100.4 |

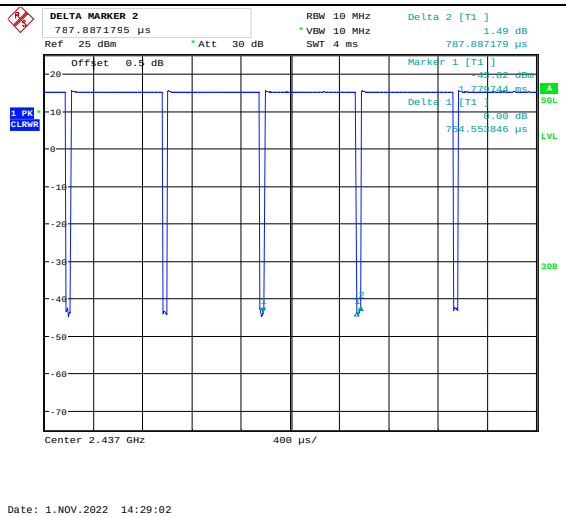
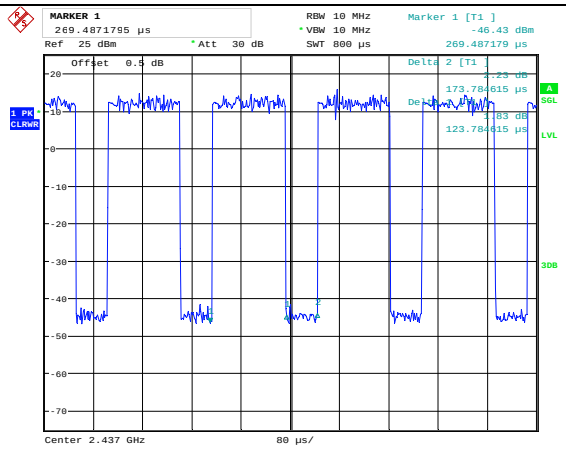
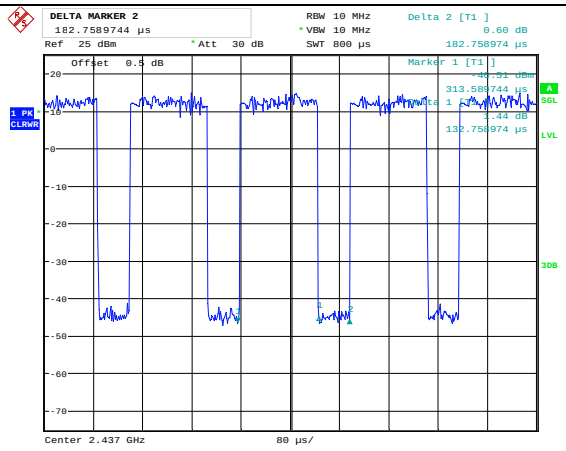
**Test Equipment List and Details:**

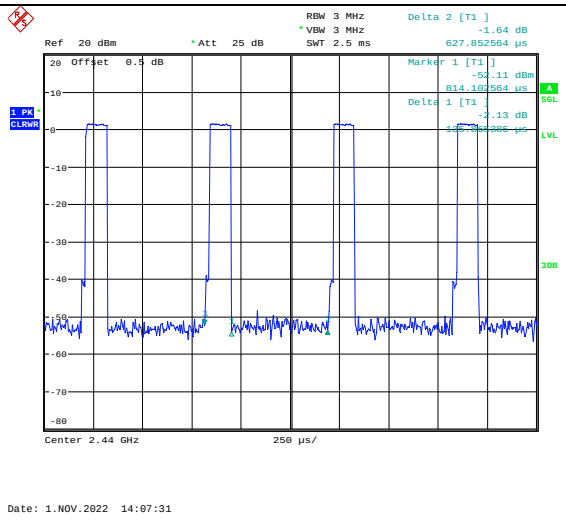
| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| R&S | Spectrum Analyzer | FSU26 | 200256 | 2022/07/15 | 2023/07/14 |
| zhuoxiang | Coaxial Cable | SMA-178 | 211001 | Each time | N/A |

** 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 | 0.755 | 0.788 | 95.81 |
| 802.11g | 0.124 | 0.174 | 71.26 |
| 802.11n ht20 | 0.133 | 0.183 | 72.68 |
| BLE 1Mbps | 0.136 | 0.628 | 21.66 |

| Duty Cycle | |
|---|---|
| **802.11b** |  |
| **802.11g** |  |
| **802.11n ht20** |  |

| Duty Cycle | |
|---|---|
| BLE 1Mbps |  |

# 5. RF EXPOSURE EVALUATION

## 5.1 Applicable Standard

FCC §15.247 (i) &§15.407 (f) & §1.1307

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 §1.1307(b)(3)(ii)(B)

Simultaneous Transmission with both SAR-based and MPE-Based Test Exemptions

This case is described in detail in § 1.1307(b)(3)(ii)(B) and covers the situations where both SAR-based and MPE-based exemption may be considered for test exemption in fixed, mobile, or portable device exposure conditions. For these cases, a device with multiple RF sources transmitting simultaneously will be considered an RF exempt device if the condition of Formula (1) is satisfied.

$$P_{th}\ (\text{mW}) = \begin{cases} ERP_{20\,cm}(d/20\ \text{cm})^{x} & d \le 20\ \text{cm} \\ ERP_{20\,cm} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases}$$

**Where**

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz;}$$

**and**

$$ERP_{20\,cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

$d$ = the separation distance (cm);

$$\sum_{i=1}^{a}\frac{P_i}{P_{th,i}}+\sum_{j=1}^{b}\frac{ERP_j}{ERP_{th,j}}+\sum_{k=1}^{c}\frac{Evaluated_k}{Exposure\ Limit_k}\leq 1 \qquad (1)$$

Where:

*a* = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for $P_{th}$, including existing exempt transmitters and those being added.

*b* = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

*c* = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

$P_i$ = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source *i* at a distance between 0.5 cm and 40 cm (inclusive).

$P_{th,i}$ = the exemption threshold power ($P_{th}$) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source *i*.

$ERP_j$ = the ERP of fixed, mobile, or portable RF source *j*.

$ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source *j*, at a distance of at least λ/2π according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

$Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source *k* either in the device or at the transmitter site from an existing evaluation at the location of exposure.

$Exposure\ Limit_k$ = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source *k*, as applicable from § 1.1310 of this chapter.

## 5.3 Measurement Result

| Radio | Frequency (MHz) | Distance (mm) | $P_{th}$ (mW) | Maximum Conducted Power including Tune-up Tolerance (dBm) | Antenna Gain (dBi) | The Greater of Conducted Power or ERP | |
|---|---|---|---|---|---|---|---|
| | | | | | | dBm | mW |
| WiFi | 2412-2462 | 200 | 3060 | 17 | 2.00 | 17 | 50.12 |
| BLE | 2402-2480 | 200 | 3060 | 4 | 2.00 | 4 | 2.51 |
| SRD | 902.6-927.8 | 200 | 1841 | 29 | 2.98 | 29.83 | 961.61 |

*Note:*
*The WiFi or BLE and SRD can transmit simultaneously.*

$$\sum_{i=1}^{a}\frac{P_i}{P_{\text{th},i}}+\sum_{j=1}^{b}\frac{ERP_j}{ERP_{\text{th},j}}+\sum_{k=1}^{c}\frac{Evaluated_k}{Exposure\ Limit_k}$$

$=P_{WiFi} / P_{th} + P_{SRD} / P_{th}$

$=50.12/3060 + 961.61/1841$

$=0.539$

$< 1.0$

**Result: The device compliant the SAR-Based Exemption at 20cm distances.**

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