

## TEST REPORT

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Sanwei Community Hangcheng Street, Baoan District ShenZhen  
GuangDong China

**Product Name:** Otoscope

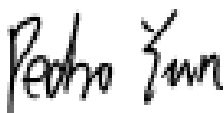
**FCC ID:** 2BLYH-OT-501

**Standard(s):** 47 CFR Part 15, Subpart C(15.247)  
ANSI C63.10-2013  
KDB 558074 D01 15.247 Meas Guidance v05r02

**Report Number:** 2402Z102689E-RF-00

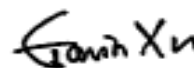
**Report Date:** 2024/12/28

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).



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DOCUMENT REVISION HISTORY

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 1.0             | 2402Z102689E-RF-00 | Original Report         | 2024/12/28       |

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test (EUT)

|                                                                                                                                                                       |                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT Name:</b>                                                                                                                                                      | Otoscope                                                                                                                                        |
| <b>EUT Model:</b>                                                                                                                                                     | OT-501                                                                                                                                          |
| <b>Multiple Model:</b>                                                                                                                                                | OT-503                                                                                                                                          |
| <b>Operation Frequency:</b>                                                                                                                                           | 2412-2462MHz (802.11b/g/n ht20)                                                                                                                 |
| <b>Maximum Peak Output Power (Conducted):</b>                                                                                                                         | 20.33dBm                                                                                                                                        |
| <b>Maximum Average Output Power (Conducted):</b>                                                                                                                      | 9.38dBm                                                                                                                                         |
| <b>Modulation Type:</b>                                                                                                                                               | 802.11b:DSSS-DBPSK, DQPSK, CCK<br>802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM                                                                      |
| <b>Rated Input Voltage:</b>                                                                                                                                           | DC 3.7V from Battery                                                                                                                            |
| <b>Serial Number:</b>                                                                                                                                                 | 2TWE-1(For Radiated Spurious Emissions Below 1G test)<br>2TWE-4(For Radiated Spurious Emissions Above 1G test)<br>2TWE-3(For RF Conducted Test) |
| <b>EUT Received Date:</b>                                                                                                                                             | 2024/11/2                                                                                                                                       |
| <b>EUT Received Status:</b>                                                                                                                                           | Good                                                                                                                                            |
| Note: The multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer. |                                                                                                                                                 |

### 1.2 Accessory Information

| Accessory Description | Manufacturer | Model | Parameters |
|-----------------------|--------------|-------|------------|
| /                     | /            | /     | /          |

### 1.3 Antenna Information Detail ▲

| Antenna Manufacturer                                                                                                                                             | Antenna Type | input impedance (Ohm) | Frequency Range | Antenna Gain |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------|-----------------|--------------|
| Dongguan Youbi Electronics Co., Ltd                                                                                                                              | FPC          | 50                    | 2.4~2.5GHz      | 3.42dBi      |
| <b>The design of compliance with §15.203:</b>                                                                                                                    |              |                       |                 |              |
| <input checked="" type="checkbox"/> Unit uses a permanently attached antenna.                                                                                    |              |                       |                 |              |
| <input type="checkbox"/> Unit uses a unique coupling to the intentional radiator.                                                                                |              |                       |                 |              |
| <input type="checkbox"/> Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit. |              |                       |                 |              |

### 1.4 Equipment Modifications

No modifications are made to the EUT during all test items.

## 2. SUMMARY OF TEST RESULTS

| Standard(s) Section                                                                                                                                                                                     | Test Items                               | Result         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------|
| §15.207(a)                                                                                                                                                                                              | AC Line Conducted Emissions              | Not Applicable |
| §15.205, §15.209,<br>§15.247(d)                                                                                                                                                                         | Radiated Spurious Emissions              | Compliant      |
| §15.247 (a)(2)                                                                                                                                                                                          | Minimum 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      |
| Note 1: Not Applicable, the device was powered by battery when operating.<br>Note 2: For Radiated Spurious Emissions 9kHz~1GHz and 18~25GHz, the maximum peak output power mode and channel was tested. |                                          |                |

### 3. DESCRIPTION OF TEST CONFIGURATION

#### 3.1 Operation Frequency Detail

For 802.11b/g/n ht20:

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

Note: The above frequencies in bold were performed the test.

#### 3.2 EUT Operation Condition

The EUT was configured for testing in Engineering Mode, which was provided by the manufacturer. The EUT configuration as below:

|                                                                                                                                                                                                  |           |                     |                |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|----------------|-----------------|
| <b>EUT Exercise Software:</b>                                                                                                                                                                    |           | SSCOM V5.13.1       |                |                 |
| 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     | 25                  | 25             | 25              |
| 802.11g                                                                                                                                                                                          | 6Mbps     | 60                  | 60             | 60              |
| 802.11n ht20                                                                                                                                                                                     | MCS0      | 60                  | 60             | 60              |
| 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. |           |                     |                |                 |

#### 3.3 Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| /            | /           | /     | /             |

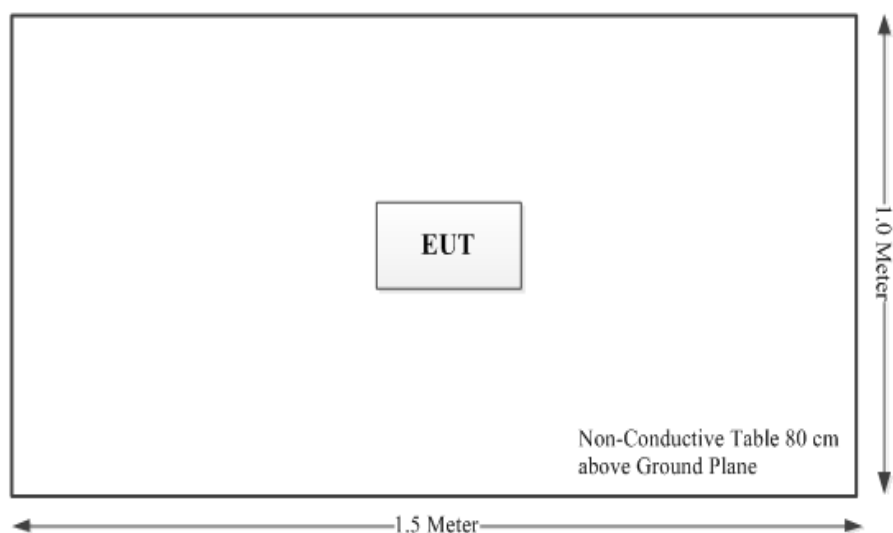
#### 3.4 Support Cable List and Details

| Cable Description | Shielding Type | Ferrite Core | Length (m) | From Port | To |
|-------------------|----------------|--------------|------------|-----------|----|
| /                 | /              | /            | /          | /         | /  |

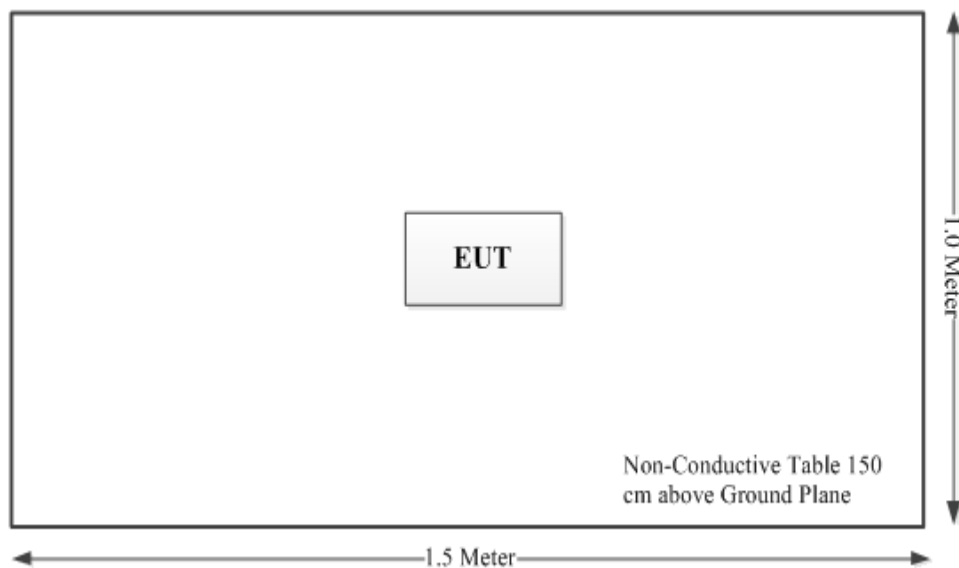
### 3.5 Block Diagram of Test Setup

Spurious Emissions:

Below 1GHz:



Above 1GHz:





### 3.6 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia 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. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

### 3.7 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      | 9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz: 5.47 dB, 26.5GHz~40GHz: 5.63 dB |
| Unwanted Emissions, conducted     | ±2.47 dB                                                                                                                                                |
| Temperature                       | ±1 °C                                                                                                                                                   |
| Humidity                          | ±5%                                                                                                                                                     |
| DC and low frequency voltages     | ±0.4%                                                                                                                                                   |
| Duty Cycle                        | 1%                                                                                                                                                      |
| AC Power Lines Conducted Emission | 3.11 dB (150 kHz to 30 MHz)                                                                                                                             |

## 4. REQUIREMENTS AND TEST PROCEDURES

### 4.1 AC Line Conducted Emissions

#### 4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ 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 $\mu$ 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:

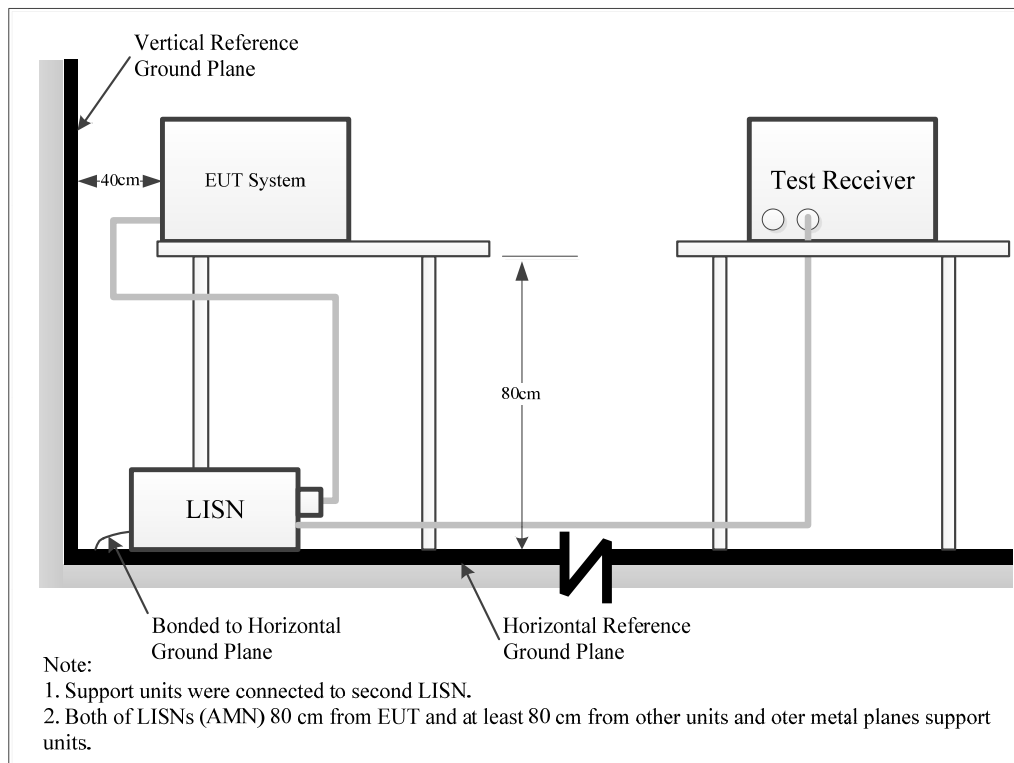
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000  $\mu$ V within the frequency band 535-1705 kHz, as measured using a 50  $\mu$ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

#### 4.1.2 EUT Setup



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 10cm.

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

#### 4.1.3 EMI Test Receiver Setup

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

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  |

#### 4.1.4 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.

#### 4.1.5 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

#### 4.1.6 Test Result

Please refer to section 5.1.

## 4.2 Radiation Spurious Emissions

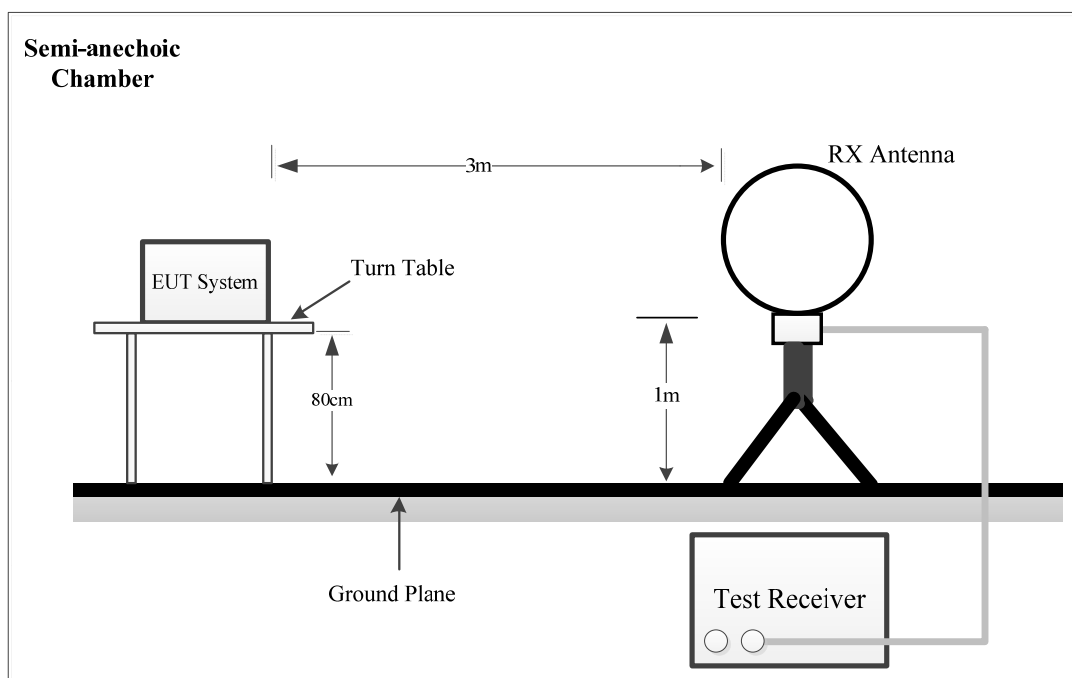
### 4.2.1 Applicable Standard

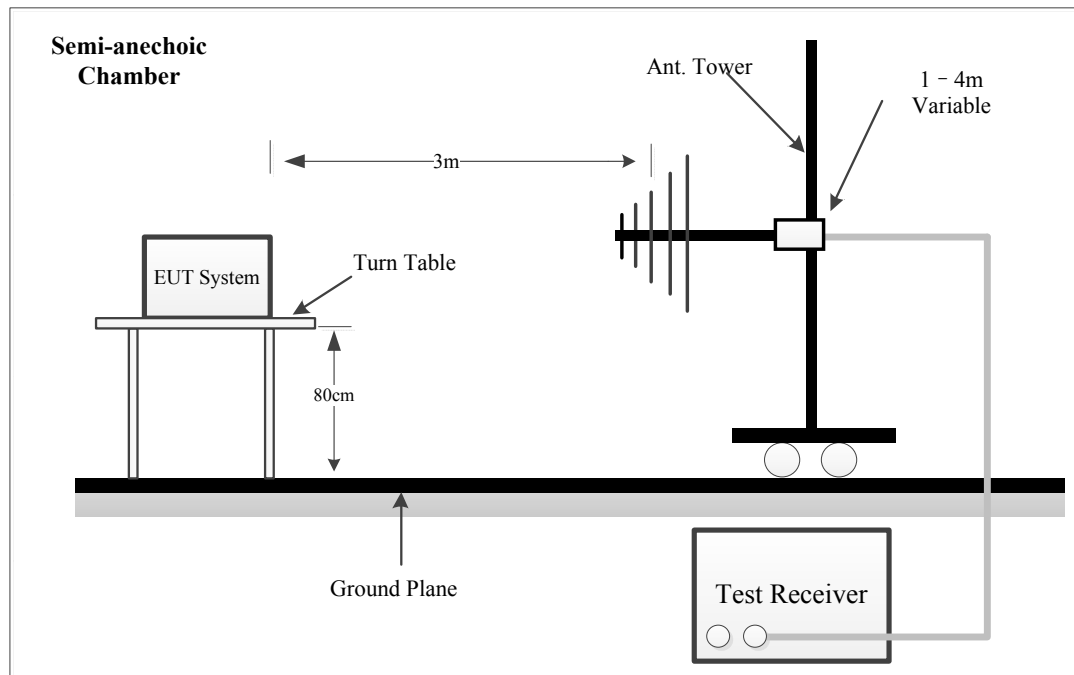
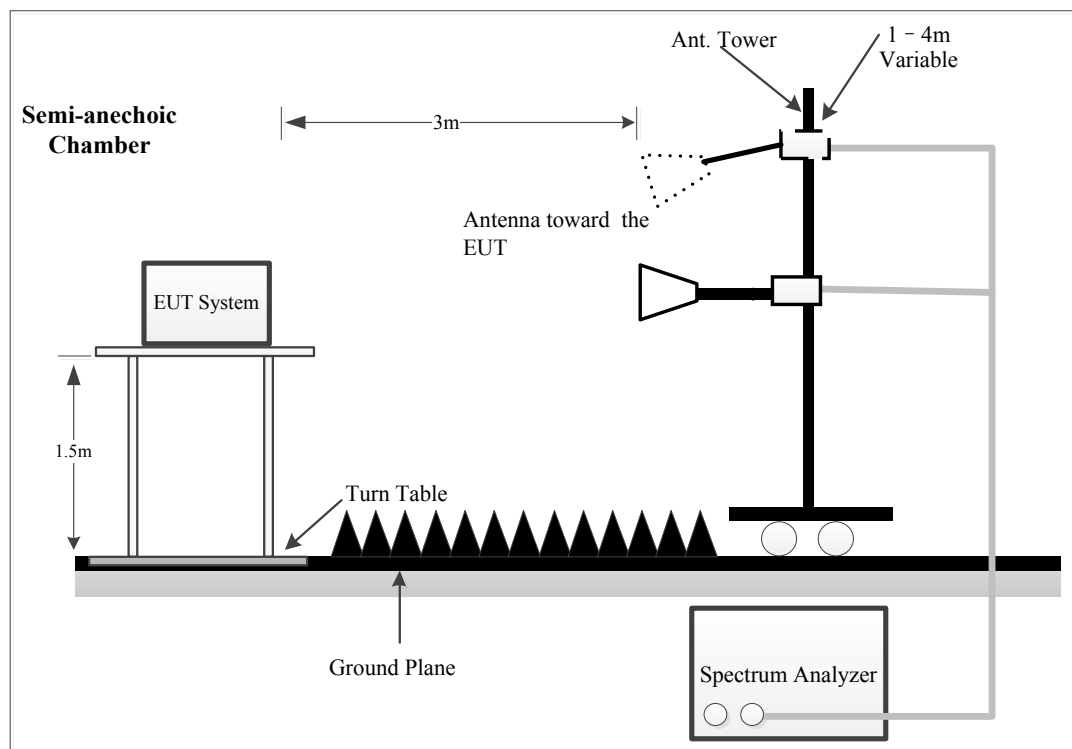
FCC §15.247 (d);

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)).

### 4.2.2 EUT Setup

9kHz~30MHz:



**30MHz~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 40cm long in the middle.

The spacing between the peripherals was 10cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

#### 4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

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

9kHz-1000MHz:

| Frequency Range  | Measurement | RBW     | Video B/W | IF B/W | Detector |
|------------------|-------------|---------|-----------|--------|----------|
| 9 kHz – 150 kHz  | QP/AV       | 300Hz   | 1 kHz     | 200 Hz | QP/AV    |
| 150 kHz – 30 MHz | QP/AV       | 10 kHz  | 30 kHz    | 9 kHz  | QP/AV    |
| 30MHz – 1000 MHz | PK          | 100 kHz | 300 kHz   | /      | PK       |
|                  | QP          | /       | /         | 120kHz | QP       |

1GHz- 25GHz:

Pre-scan:

| Measurement | Detector | Duty cycle | RBW  | Video B/W                       |
|-------------|----------|------------|------|---------------------------------|
| PK          | PK       | Any        | 1MHz | 3 MHz                           |
| Ave.        | PK       | >98%       | 1MHz | 5kHz                            |
|             |          | <98%       | 1MHz | $\geq 1/T$ , not less than 5kHz |

Final measurement for emission identified during the pre-scan:

| Measurement | Detector | Duty cycle | RBW  | Video B/W  |
|-------------|----------|------------|------|------------|
| PK          | PK       | Any        | 1MHz | 3 MHz      |
| Ave.        | PK       | >98%       | 1MHz | 10 Hz      |
|             |          | <98%       | 1MHz | $\geq 1/T$ |

Note: T is minimum transmission duration

#### 4.2.4 Test Procedure

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

Data was required in Quasi-peak detection mode for frequency range of 9 kHz -1 GHz, except 9-90 kHz, 110-490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

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

#### 4.2.5 Corrected Result& 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

#### 4.2.6 Test Result

Please refer to section 5.2.



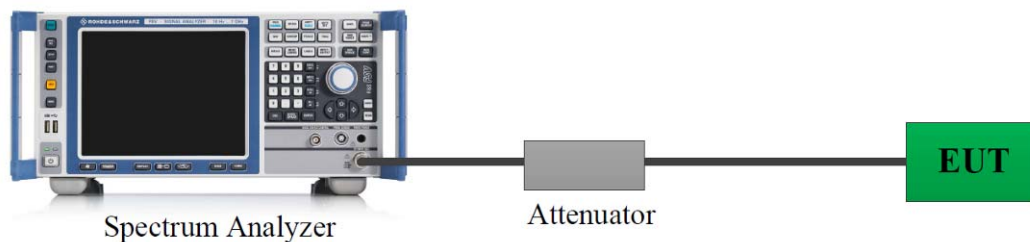
### 4.3 Minimum 6 dB Emission Bandwidth

#### 4.3.1 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.

#### 4.3.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

#### 4.3.3 Test Procedure

According to ANSI C63.10-2013 Section 11.8

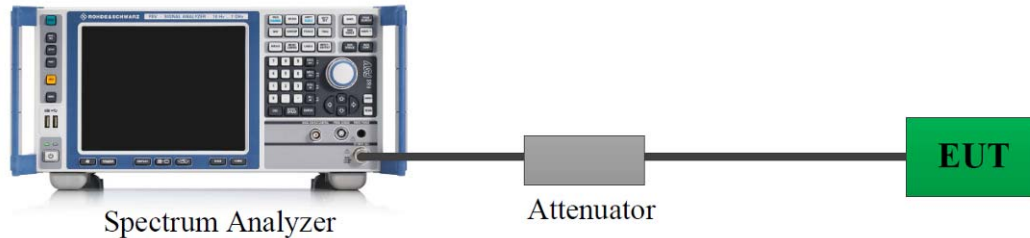
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq 3 \times \text{RBW}$ .
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with 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.

#### 4.3.4 Test Result

Please refer to section 5.3.

## 4.4 99% Occupied Bandwidth

### 4.4.1 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

### 4.4.2 Test Procedure

According to ANSI C63.10-2013 Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (\text{OBW}/\text{RBW})]$  below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data maybe reported in addition to the plot(s).

### 4.4.3 Test Result

Please refer to section 5.4.

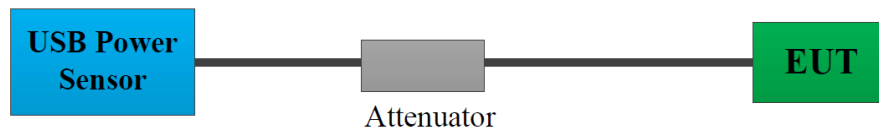
## 4.5 Maximum Conducted Output Power

### 4.5.1 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.

### 4.5.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

### 4.5.3 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.

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

According to ANSI C63.10-2013 Section 11.9.2.3.2

Method AVGPM-G is a measurement using a gated RF average power meter.

Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

### 4.5.4 Test Result

Please refer to section 5.5.

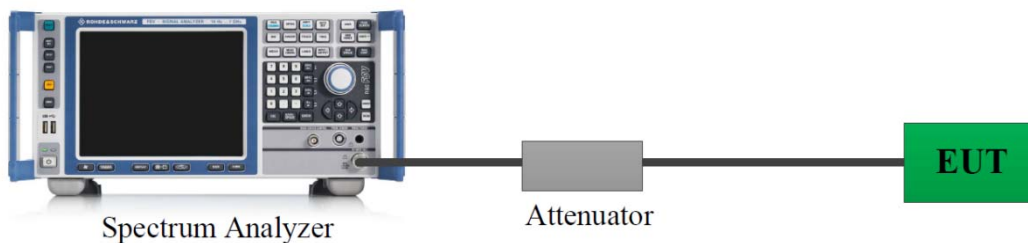
## 4.6 Maximum Power Spectral Density

### 4.6.1 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.

### 4.6.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

### 4.6.3 Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance:

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

### 4.6.4 Test Result

Please refer to section 5.6.

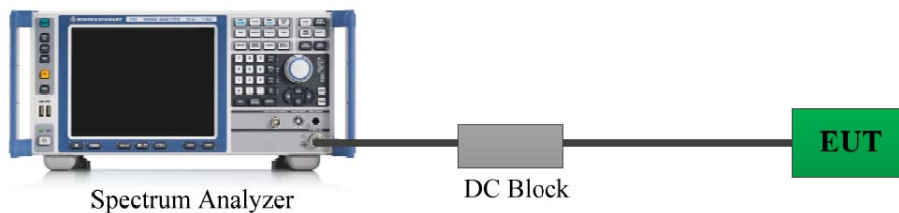
## 4.7 100 kHz Bandwidth of Frequency Band Edge

### 4.7.1 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)).

### 4.7.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

### 4.7.3 Test Procedure

According to ANSI C63.10-2013 Section 11.11

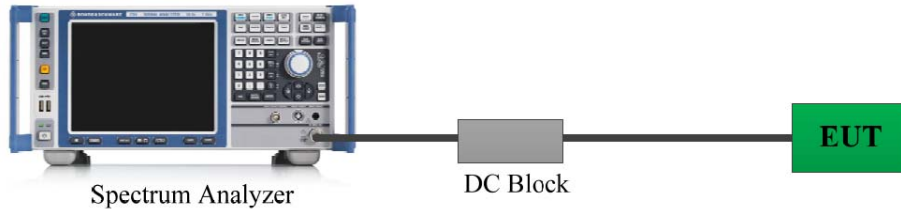
- Set the center frequency and span to encompass frequency range to be measured.
  - Set the RBW = 100 kHz.
  - Set the VBW  $\geq [3 \times \text{RBW}]$ .
  - Detector = peak.
  - Sweep time = auto couple.
  - Trace mode = max hold.
  - Allow trace to fully stabilize.
  - Use the peak marker function 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.

### 4.7.4 Test Result

Please refer to section 5.7.

## 4.8 Duty Cycle

### 4.8.1 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The insert loss of this RF cable/attenuator was offset into the setting of test equipment.

### 4.8.2 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 OFFtimes 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  $T \leq 16.7 \mu s$ .)

### 4.8.3 Judgment

Report Only. Please refer to section 5.8.

## **4.9 Antenna Requirement**

### **4.9.1 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.

### **4.9.2 Judgment**

**Compliant.** Please refer to the Antenna Information detail in Section 1.3.

## **5. Test DATA AND RESULTS**

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### **5.1 AC Line Conducted Emissions**

Not Applicable, the device was powered by battery when operating.



## 5.2 Radiation Spurious Emissions

### 1)9kHz - 1GHz

|                |              |              |              |
|----------------|--------------|--------------|--------------|
| Serial Number: | 2TWE-1       | Test Date:   | 2024/12/16   |
| Test Site:     | Chamber10m   | Test Mode:   | Transmitting |
| Tester:        | Leesin Xiang | Test Result: | Pass         |

| Environmental Conditions: |      |                           |    |                           |       |
|---------------------------|------|---------------------------|----|---------------------------|-------|
| Temperature:<br>(°C)      | 20.2 | Relative Humidity:<br>(%) | 46 | ATM<br>Pressure:<br>(kPa) | 102.5 |

#### Test Equipment List and Details:

| Manufacturer   | Description          | Model     | Serial Number | Calibration Date | Calibration Due Date |
|----------------|----------------------|-----------|---------------|------------------|----------------------|
| EMCO           | Passive Loop Antenna | 6512      | 9706-1206     | 2023/10/25       | 2026/10/24           |
| Sunol Sciences | Hybrid Antenna       | JB3       | A060611-1     | 2023/9/6         | 2026/9/5             |
| Narda          | Coaxial Attenuator   | 779-6dB   | 04269         | 2023/9/6         | 2026/9/5             |
| Unknown        | Coaxial Cable        | C-NJNJ-50 | C-1000-01     | 2024/7/1         | 2025/6/30            |
| Unknown        | Coaxial Cable        | C-NJNJ-50 | C-0400-04     | 2024/7/1         | 2025/6/30            |
| Unknown        | Coaxial Cable        | C-NJNJ-50 | C-0530-01     | 2024/7/1         | 2025/6/30            |
| Sonoma         | Amplifier            | 310N      | 185914        | 2024/8/26        | 2025/8/25            |
| R&S            | EMI Test Receiver    | ESCI      | 100224        | 2024/8/26        | 2025/8/25            |
| Audix          | Test Software        | E3        | 191218 V9     | N/A              | N/A                  |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (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.

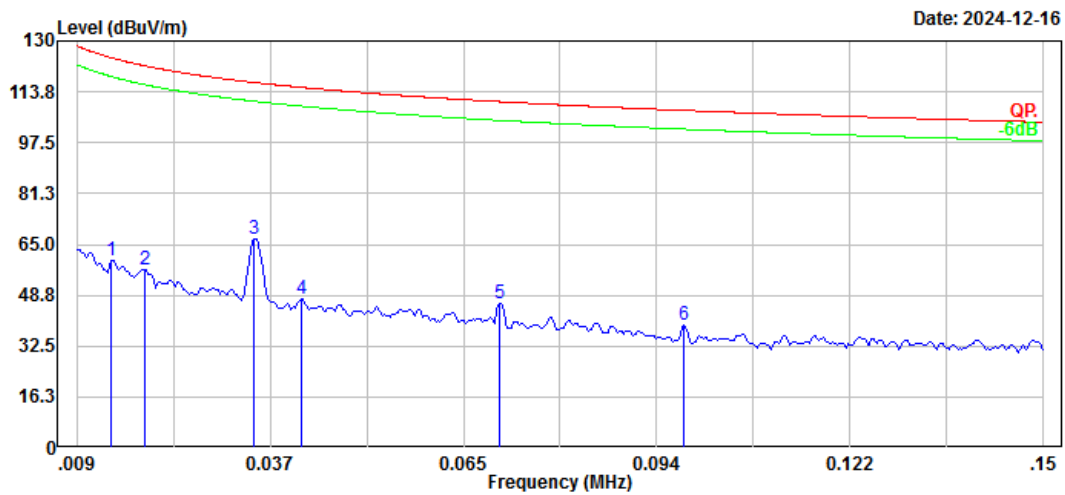
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to table and plots.

**9kHz~30MHz(802.11g High channel was tested)**

Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured,  
the worst orientations was below:

Project No.: 2402Z102689E-RF  
Polarization: Parallel  
Test Mode: Transmitting  
RBW:300Hz VBW:1kHz

Serial No.: 2TWE-1  
Tester: Leesin Xiang

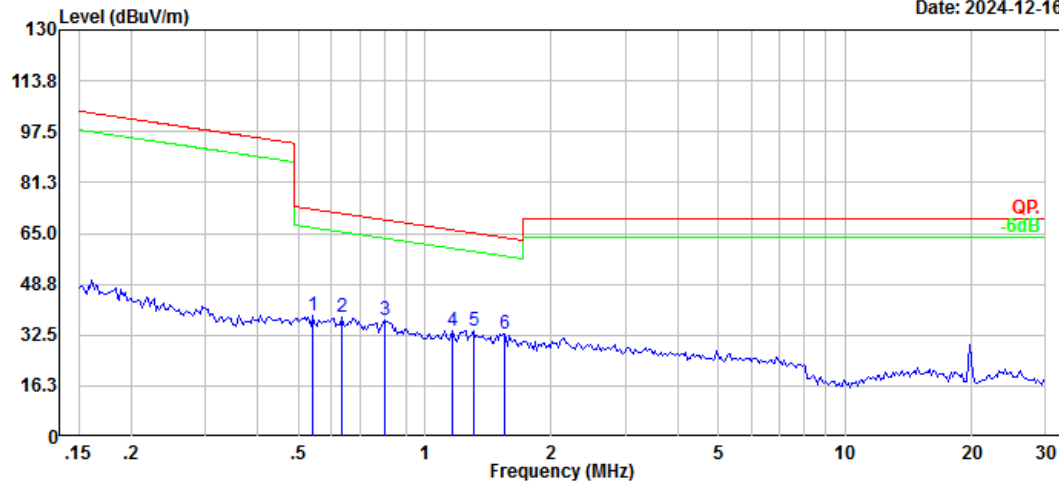


| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|----------|
| 1   | 0.014              | 8.00              | 51.71            | 59.71              | 124.64            | 64.93          | Peak     |
| 2   | 0.019              | 6.68              | 50.36            | 57.04              | 122.09            | 65.05          | Peak     |
| 3   | 0.035              | 20.24             | 46.67            | 66.91              | 116.74            | 49.83          | Peak     |
| 4   | 0.042              | 2.18              | 45.47            | 47.65              | 115.20            | 67.55          | Peak     |
| 5   | 0.071              | 5.70              | 40.46            | 46.16              | 110.61            | 64.45          | Peak     |
| 6   | 0.098              | 3.26              | 35.83            | 39.09              | 107.82            | 68.73          | Peak     |

Project No.: 2402Z102689E-RF  
Polarization: Parallel  
Test Mode: Transmitting  
RBW:10kHz VBW:30kHz

Serial No.: 2TWE-1  
Tester: Leesin Xiang

Date: 2024-12-16



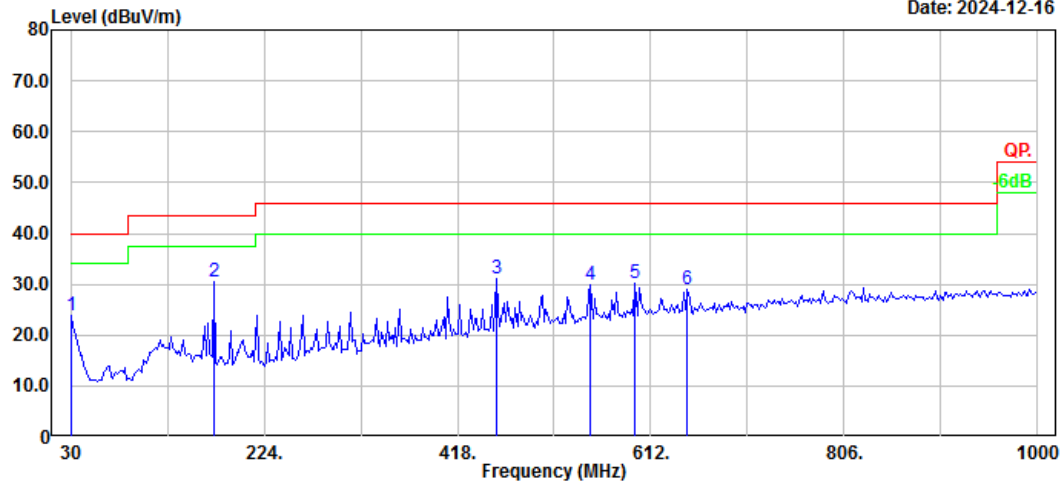
| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|----------|
| 1   | 0.541              | 15.74             | 23.10            | 38.84              | 72.93             | 34.09          | Peak     |
| 2   | 0.634              | 16.22             | 22.13            | 38.35              | 71.52             | 33.17          | Peak     |
| 3   | 0.800              | 16.48             | 20.56            | 37.04              | 69.45             | 32.41          | Peak     |
| 4   | 1.160              | 18.23             | 15.85            | 34.08              | 66.16             | 32.08          | Peak     |
| 5   | 1.303              | 18.61             | 15.22            | 33.83              | 65.13             | 31.30          | Peak     |
| 6   | 1.544              | 18.80             | 14.14            | 32.94              | 63.62             | 30.68          | Peak     |

**30MHz-1GHz(802.11g High channel was tested)**

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
RBW:100kHz VBW:300kHz

Serial No.: 2TWE-1  
Tester: Leesin Xiang

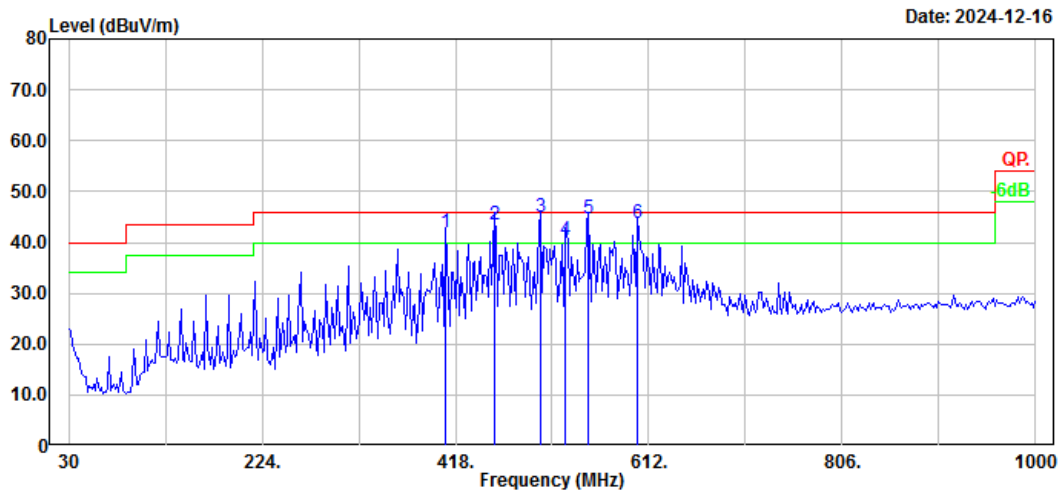
Date: 2024-12-16



| No. | Frequency<br>(MHz) | Reading<br>(dBμV) | Factor<br>(dB/m) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Detector |
|-----|--------------------|-------------------|------------------|--------------------|-------------------|----------------|----------|
| 1   | 30.00              | 27.57             | -3.80            | 23.77              | 40.00             | 16.23          | Peak     |
| 2   | 173.56             | 42.51             | -11.98           | 30.53              | 43.50             | 12.97          | Peak     |
| 3   | 456.80             | 36.38             | -5.25            | 31.13              | 46.00             | 14.87          | Peak     |
| 4   | 551.86             | 33.23             | -3.41            | 29.82              | 46.00             | 16.18          | Peak     |
| 5   | 596.48             | 33.09             | -2.96            | 30.13              | 46.00             | 15.87          | Peak     |
| 6   | 648.86             | 30.75             | -1.90            | 28.85              | 46.00             | 17.15          | Peak     |

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
RBW:100kHz VBW:300kHz

Serial No.: 2TWE-1  
Tester: Leesin Xiang



| No. | Frequency (MHz) | Reading (dBμV) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 408.30          | 48.59          | -6.76         | 41.83           | 46.00          | 4.17        | QP       |
| 2   | 456.80          | 48.80          | -5.25         | 43.55           | 46.00          | 2.45        | QP       |
| 3   | 503.36          | 49.10          | -4.22         | 44.88           | 46.00          | 1.12        | QP       |
| 4   | 528.58          | 44.10          | -3.79         | 40.31           | 46.00          | 5.69        | QP       |
| 5   | 551.86          | 48.00          | -3.41         | 44.59           | 46.00          | 1.41        | QP       |
| 6   | 600.36          | 46.70          | -2.91         | 43.79           | 46.00          | 2.21        | QP       |

**2) 1-25GHz:**

|                |            |              |              |
|----------------|------------|--------------|--------------|
| Serial Number: | 2TWE-4     | Test Date:   | 2024/12/25   |
| Test Site:     | Chamber B  | Test Mode:   | Transmitting |
| Tester:        | Colin Yang | Test Result: | Pass         |

**Environmental Conditions:**

|                      |      |                           |    |                           |       |
|----------------------|------|---------------------------|----|---------------------------|-------|
| Temperature:<br>(°C) | 20.8 | Relative Humidity:<br>(%) | 33 | ATM<br>Pressure:<br>(kPa) | 102.2 |
|----------------------|------|---------------------------|----|---------------------------|-------|

**Test Equipment List and Details:**

| Manufacturer          | Description                                            | Model                     | Serial Number     | Calibration Date | Calibration Due Date |
|-----------------------|--------------------------------------------------------|---------------------------|-------------------|------------------|----------------------|
| ETS-Lindgren          | Horn Antenna                                           | 3115                      | 000 527 35        | 2023/9/7         | 2026/9/6             |
| Xinhang Macrowave     | Coaxial Cable                                          | XH750A-N/J-SMA/J-10M      | 20231117004 #0001 | 2024/11/17       | 2025/11/16           |
| AH                    | Preamplifier                                           | PAM-0118P                 | 469               | 2024/4/15        | 2025/4/14            |
| Audix                 | Test Software                                          | E3                        | 191218 V9         | N/A              | N/A                  |
| R&S                   | Spectrum Analyzer                                      | FSV40                     | 101944            | 2024/9/6         | 2025/9/5             |
| Ducommun Technologies | Horn Antenna                                           | ARH-4223-02               | 1007726-02 1304   | 2023/2/22        | 2026/2/21            |
| Xinhang Macrowave     | Coaxial Cable                                          | XH360A-2.92/J-2.92/J-6M-A | 20231208001 #0001 | 2024/12/9        | 2025/12/8            |
| AH                    | Preamplifier                                           | PAM-1840VH                | 191               | 2024/9/5         | 2025/9/4             |
| Decentest             | Multiplex Switch Test Control Set & Filter Switch Unit | DT7220SCU & DT7220FCU     | DC79902 & DC79905 | 2024/8/27        | 2025/8/26            |

*\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

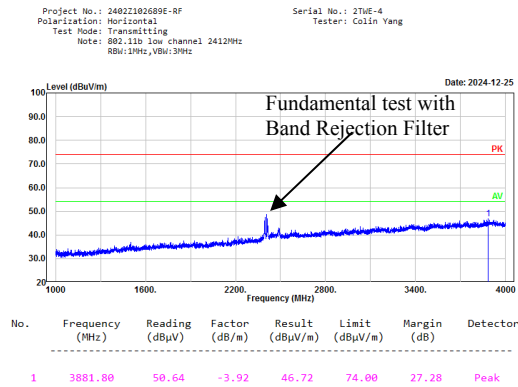
**Test Data:**

Please refer to the below table and plots.

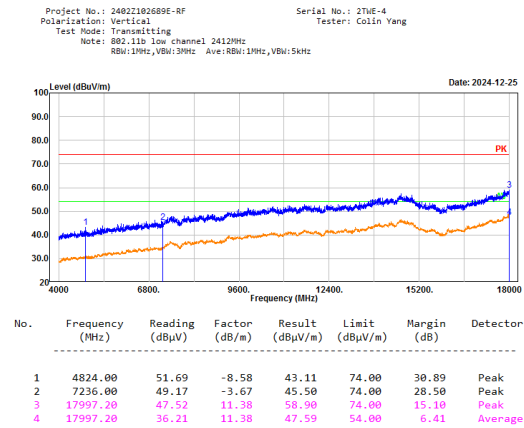
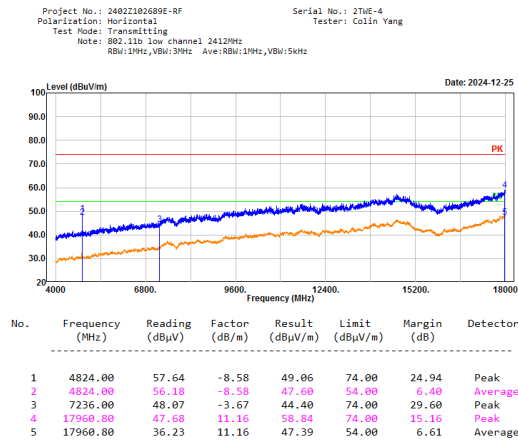
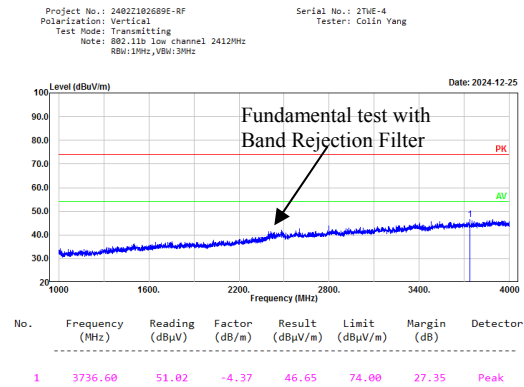
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to table and plots.

## 1-18GHz:

## 802.11b, Low Channel, Horizontal



## 802.11b, Low Channel, Vertical

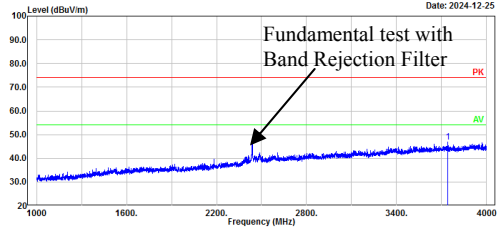


## 802.11b, Middle Channel, Horizontal

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11b middle channel 2437MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25



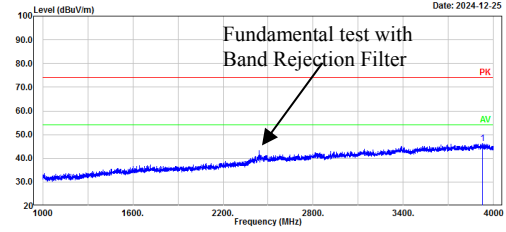
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3748.80         | 51.17          | -4.39         | 46.78           | 74.00          | 27.22       | Peak     |

## 802.11b, Middle Channel, Vertical

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11b middle channel 2437MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

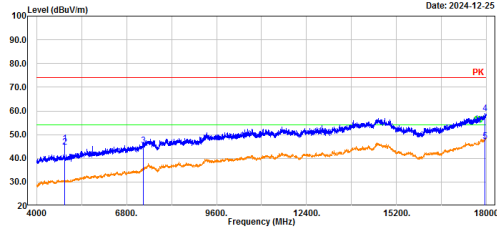


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3926.20         | 49.90          | -3.76         | 46.14           | 74.00          | 27.86       | Peak     |

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11b middle channel 2437MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

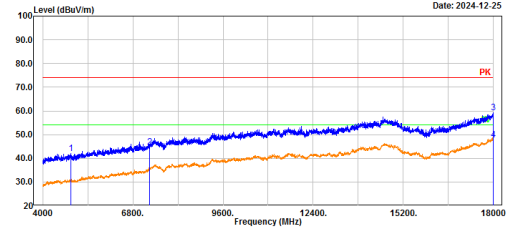


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4874.00         | 54.65          | -8.50         | 46.15           | 74.00          | 27.85       | Peak     |
| 2   | 4874.00         | 53.40          | -8.50         | 44.90           | 54.00          | 9.10        | Average  |
| 3   | 7311.00         | 48.58          | -3.27         | 45.31           | 74.00          | 28.69       | Peak     |
| 4   | 17952.40        | 47.75          | 11.10         | 58.85           | 74.00          | 15.15       | Peak     |
| 5   | 17952.40        | 36.06          | 11.10         | 47.16           | 54.00          | 6.84        | Average  |

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11b middle channel 2437MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4874.00         | 50.57          | -8.50         | 42.07           | 74.00          | 31.93       | Peak     |
| 2   | 7311.00         | 48.12          | -3.27         | 44.85           | 74.00          | 29.15       | Peak     |
| 3   | 17994.40        | 47.97          | 11.37         | 59.34           | 74.00          | 14.66       | Peak     |
| 4   | 17994.40        | 36.34          | 11.37         | 47.71           | 54.00          | 6.29        | Average  |

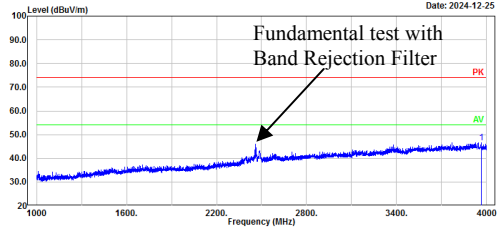


## 802.11b, High Channel, Horizontal

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11b high channel 2462MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25



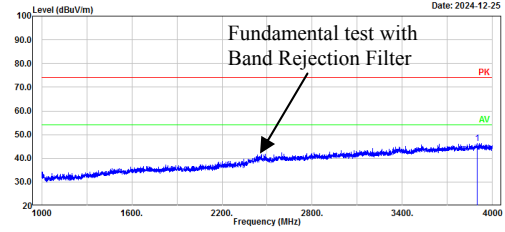
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3962.80         | 50.32          | -3.71         | 46.61           | 74.00          | 27.39       | Peak     |

## 802.11b, High Channel, Vertical

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11b high channel 2462MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

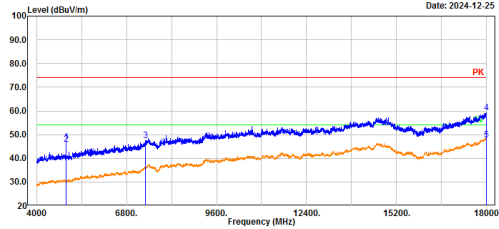


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3898.00         | 49.87          | -3.60         | 46.27           | 74.00          | 27.73       | Peak     |

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11b high channel 2462MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

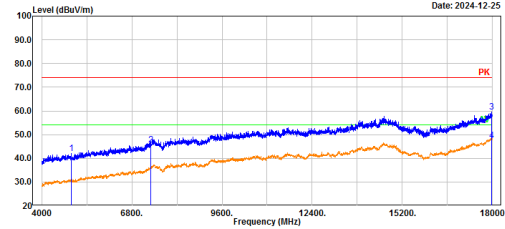


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4924.00         | 55.26          | -8.47         | 46.79           | 74.00          | 27.21       | Peak     |
| 2   | 4924.00         | 54.37          | -8.47         | 45.90           | 54.00          | 8.10        | Average  |
| 3   | 7386.00         | 50.08          | -2.71         | 47.37           | 74.00          | 26.63       | Peak     |
| 4   | 17997.20        | 47.84          | 11.38         | 59.22           | 74.00          | 14.78       | Peak     |
| 5   | 17997.20        | 36.36          | 11.38         | 47.74           | 54.00          | 6.26        | Average  |

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11b high channel 2462MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25



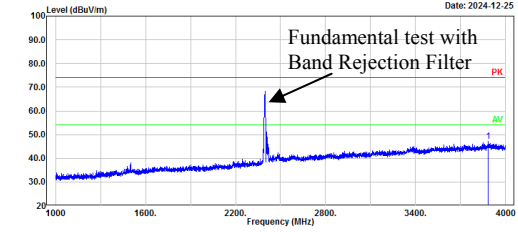
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4924.00         | 50.50          | -8.47         | 42.03           | 74.00          | 31.97       | Peak     |
| 2   | 7386.00         | 48.42          | -2.71         | 45.71           | 74.00          | 28.29       | Peak     |
| 3   | 17963.60        | 48.25          | 11.18         | 59.43           | 74.00          | 14.57       | Peak     |
| 4   | 17963.60        | 36.34          | 11.18         | 47.52           | 54.00          | 6.48        | Average  |

## 802.11g, Low Channel, Horizontal

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11g low channel 2412MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25



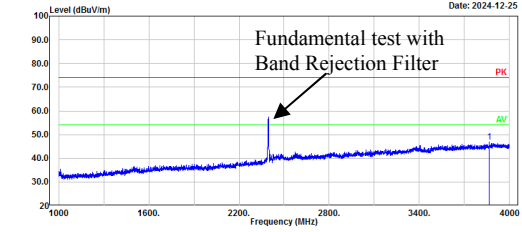
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3885.40         | 51.02          | -3.84         | 47.18           | 74.00          | 26.82       | Peak     |

## 802.11g, Low Channel, Vertical

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11g low channel 2412MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

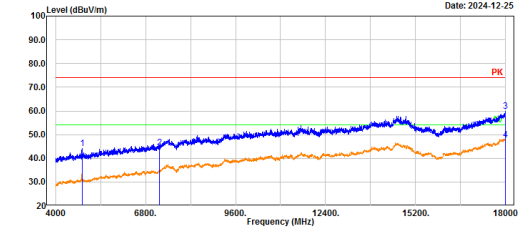


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3863.80         | 50.93          | -3.96         | 46.97           | 74.00          | 27.03       | Peak     |

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11g low channel 2412MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

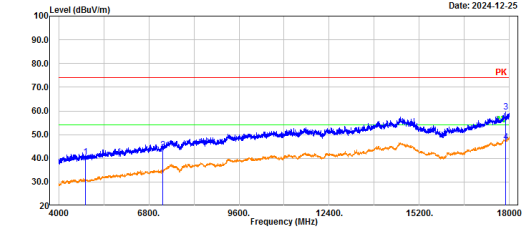


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4824.00         | 52.65          | -8.58         | 44.07           | 74.00          | 29.93       | Peak     |
| 2   | 7236.00         | 48.04          | -3.67         | 44.37           | 74.00          | 29.63       | Peak     |
| 3   | 17997.20        | 48.42          | 11.38         | 59.80           | 74.00          | 14.20       | Peak     |
| 4   | 17997.20        | 36.34          | 11.38         | 47.72           | 54.00          | 6.28        | Average  |

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11g low channel 2412MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

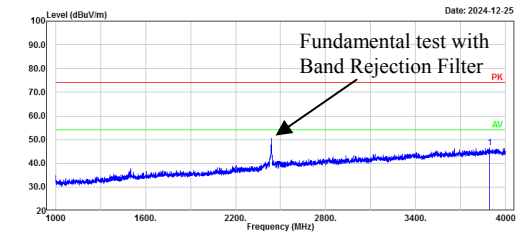


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4824.00         | 49.25          | -8.58         | 40.67           | 74.00          | 33.33       | Peak     |
| 2   | 7236.00         | 47.31          | -3.67         | 43.64           | 74.00          | 30.36       | Peak     |
| 3   | 17885.20        | 48.94          | 10.66         | 59.60           | 74.00          | 14.40       | Peak     |
| 4   | 17885.20        | 36.34          | 10.66         | 47.00           | 54.00          | 7.00        | Average  |

## 802.11g, Middle Channel, Horizontal

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11g middle channel 2437MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

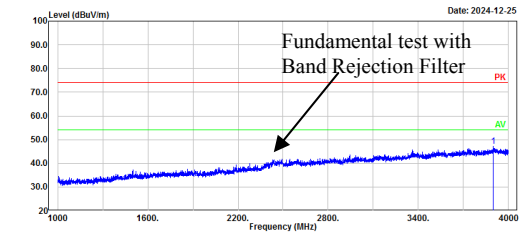


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3894.40         | 50.21          | -3.65         | 46.56           | 74.00          | 27.44       | Peak     |

## 802.11g, Middle Channel, Vertical

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11g middle channel 2437MHz  
RBW:1MHz,VBW:3MHz

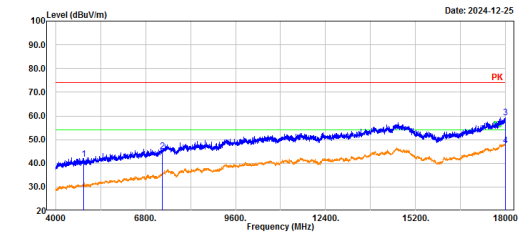
Serial No.: 2TUE-4  
Tester: Colin Yang



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3896.20         | 50.73          | -3.63         | 47.10           | 74.00          | 26.90       | Peak     |

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11g middle channel 2437MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

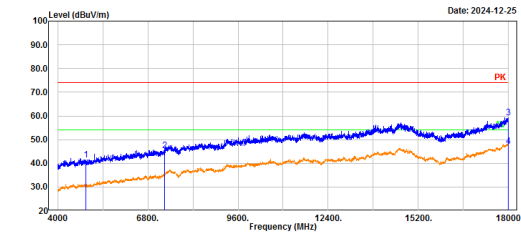
Serial No.: 2TUE-4  
Tester: Colin Yang



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4874.00         | 50.25          | -8.50         | 41.75           | 74.00          | 32.25       | Peak     |
| 2   | 7311.00         | 48.29          | -3.27         | 45.02           | 74.00          | 28.98       | Peak     |
| 3   | 17997.20        | 47.79          | 11.38         | 59.17           | 74.00          | 14.83       | Peak     |
| 4   | 17997.20        | 36.12          | 11.38         | 47.50           | 54.00          | 6.50        | Average  |

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11g middle channel 2437MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang



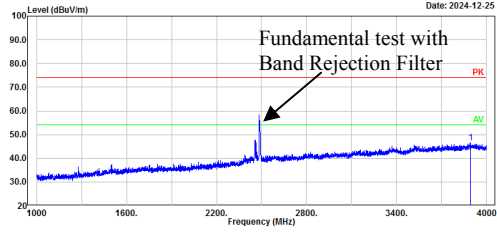
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4874.00         | 49.81          | -8.50         | 41.31           | 74.00          | 32.69       | Peak     |
| 2   | 7311.00         | 48.49          | -3.27         | 45.22           | 74.00          | 28.78       | Peak     |
| 3   | 17983.20        | 47.84          | 11.32         | 59.16           | 74.00          | 14.84       | Peak     |
| 4   | 17983.20        | 35.76          | 11.32         | 47.08           | 54.00          | 6.92        | Average  |

## 802.11g, High Channel, Horizontal

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11g high channel 2462MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25



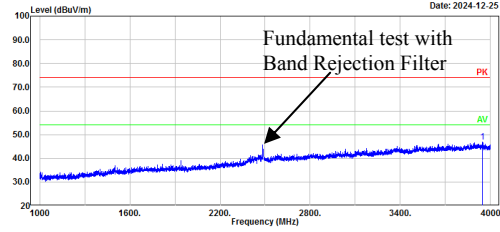
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3894.40         | 50.09          | -3.65         | 46.44           | 74.00          | 27.56       | Peak     |

## 802.11g, High Channel, Vertical

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11g high channel 2462MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

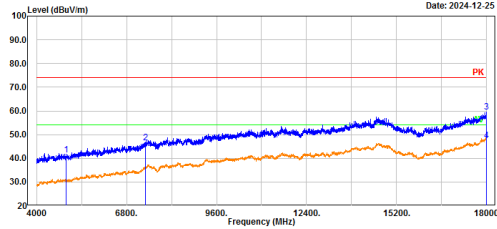


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3944.80         | 50.47          | -3.63         | 46.84           | 74.00          | 27.16       | Peak     |

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11g high channel 2462MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

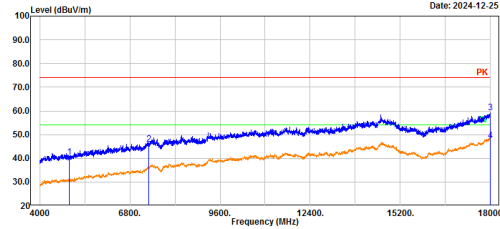


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4924.00         | 49.81          | -8.47         | 41.34           | 74.00          | 32.66       | Peak     |
| 2   | 7386.00         | 49.29          | -2.71         | 46.58           | 74.00          | 27.42       | Peak     |
| 3   | 17991.60        | 48.12          | 11.35         | 59.47           | 74.00          | 14.53       | Peak     |
| 4   | 17991.60        | 36.08          | 11.35         | 47.43           | 54.00          | 6.57        | Average  |

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11g high channel 2462MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25



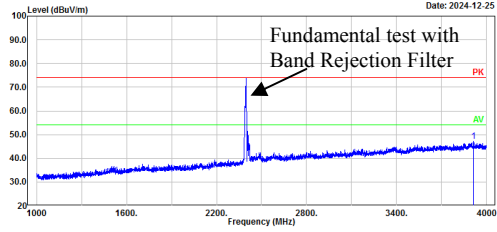
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4924.00         | 48.97          | -8.47         | 40.50           | 74.00          | 33.50       | Peak     |
| 2   | 7386.00         | 48.74          | -2.71         | 46.03           | 74.00          | 27.97       | Peak     |
| 3   | 17997.20        | 47.94          | 11.38         | 59.32           | 74.00          | 14.68       | Peak     |
| 4   | 17997.20        | 36.03          | 11.38         | 47.41           | 54.00          | 6.59        | Average  |

## 802.11n20, Low Channel, Horizontal

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11n20 low channel 2412MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25



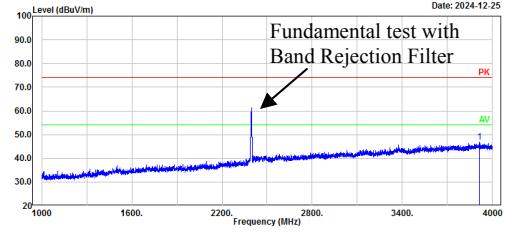
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3911.20         | 50.80          | -3.70         | 47.10           | 74.00          | 26.90       | Peak     |

## 802.11n20, Low Channel, Vertical

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11n20 low channel 2412MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

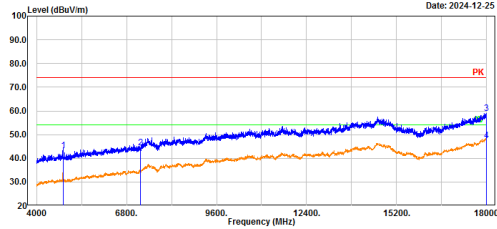


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3913.60         | 50.50          | -3.72         | 46.78           | 74.00          | 27.22       | Peak     |

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11n20 low channel 2412MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

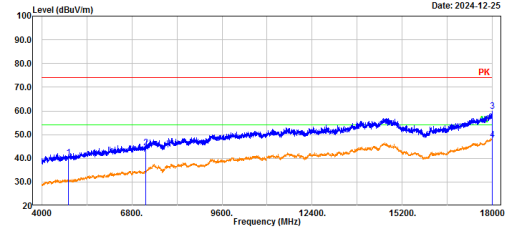


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4824.00         | 51.96          | -8.58         | 43.38           | 74.00          | 30.62       | Peak     |
| 2   | 7236.00         | 48.11          | -3.67         | 44.44           | 74.00          | 29.56       | Peak     |
| 3   | 17997.20        | 47.47          | 11.38         | 58.85           | 74.00          | 15.15       | Peak     |
| 4   | 17997.20        | 36.15          | 11.38         | 47.53           | 54.00          | 6.47        | Average  |

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11n20 low channel 2412MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25



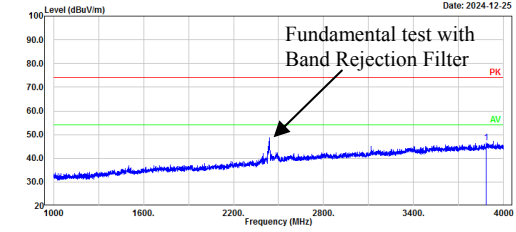
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4824.00         | 48.71          | -8.58         | 40.13           | 74.00          | 33.87       | Peak     |
| 2   | 7236.00         | 48.00          | -3.67         | 44.33           | 74.00          | 29.67       | Peak     |
| 3   | 17991.60        | 48.56          | 11.35         | 59.91           | 74.00          | 14.09       | Peak     |
| 4   | 17991.60        | 36.43          | 11.35         | 47.78           | 54.00          | 6.22        | Average  |

## 802.11n20, Middle Channel, Horizontal

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11n20 middle channel 2437MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25



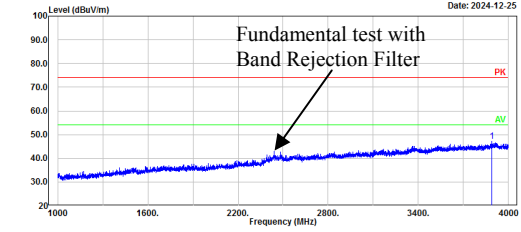
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3886.00         | 50.43          | -3.83         | 46.60           | 74.00          | 27.40       | Peak     |

## 802.11n20, Middle Channel, Vertical

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11n20 middle channel 2437MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

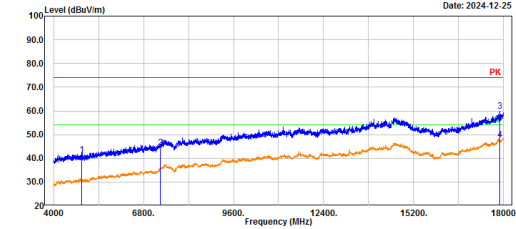


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3889.60         | 50.88          | -3.76         | 47.12           | 74.00          | 26.88       | Peak     |

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11n20 middle channel 2437MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

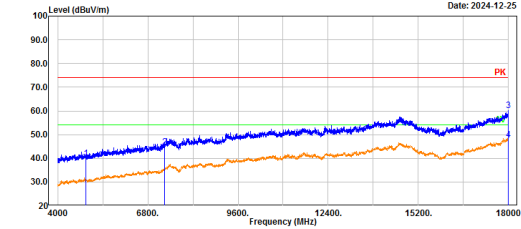


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4874.00         | 50.06          | -8.50         | 41.56           | 74.00          | 32.44       | Peak     |
| 2   | 7311.00         | 47.60          | -3.27         | 44.33           | 74.00          | 29.67       | Peak     |
| 3   | 17874.00        | 49.37          | 10.58         | 59.95           | 74.00          | 14.05       | Peak     |
| 4   | 17874.00        | 37.26          | 10.58         | 47.84           | 54.00          | 6.16        | Average  |

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11n20 middle channel 2437MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

Date: 2024-12-25

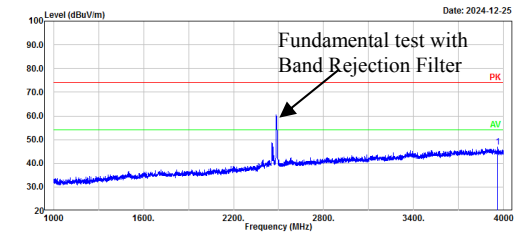


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4874.00         | 48.56          | -8.50         | 40.06           | 74.00          | 33.94       | Peak     |
| 2   | 7311.00         | 48.14          | -3.27         | 44.87           | 74.00          | 29.13       | Peak     |
| 3   | 17994.40        | 48.65          | 11.37         | 60.02           | 74.00          | 13.98       | Peak     |
| 4   | 17994.40        | 36.34          | 11.37         | 47.71           | 54.00          | 6.29        | Average  |

## 802.11n20, High Channel, Horizontal

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11n20 high channel 2462MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TUE-4  
Tester: Colin Yang

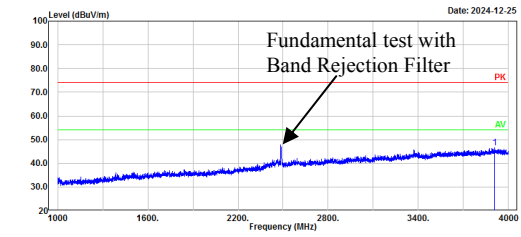


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3962.20         | 50.62          | -3.71         | 46.91           | 74.00          | 27.09       | Peak     |

## 802.11n20, High Channel, Vertical

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11n20 high channel 2462MHz  
RBW:1MHz,VBW:3MHz

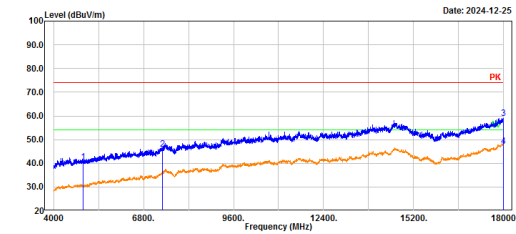
Serial No.: 2TUE-4  
Tester: Colin Yang



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 3908.80         | 50.30          | -3.68         | 46.62           | 74.00          | 27.38       | Peak     |

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11n20 high channel 2462MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

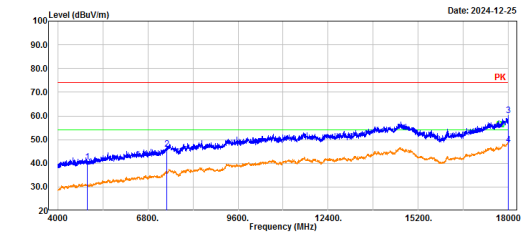
Serial No.: 2TUE-4  
Tester: Colin Yang



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4924.00         | 49.09          | -8.47         | 40.62           | 74.00          | 33.38       | Peak     |
| 2   | 7386.00         | 48.81          | -2.71         | 46.10           | 74.00          | 27.90       | Peak     |
| 3   | 17991.60        | 47.64          | 11.35         | 58.99           | 74.00          | 15.01       | Peak     |
| 4   | 17991.60        | 35.97          | 11.35         | 47.32           | 54.00          | 6.68        | Average  |

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11n20 high channel 2462MHz  
RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 4924.00         | 49.05          | -8.47         | 40.58           | 74.00          | 33.42       | Peak     |
| 2   | 7386.00         | 48.70          | -2.71         | 45.99           | 74.00          | 28.01       | Peak     |
| 3   | 17994.40        | 48.73          | 11.37         | 60.10           | 74.00          | 13.90       | Peak     |
| 4   | 17994.40        | 36.25          | 11.37         | 47.62           | 54.00          | 6.38        | Average  |

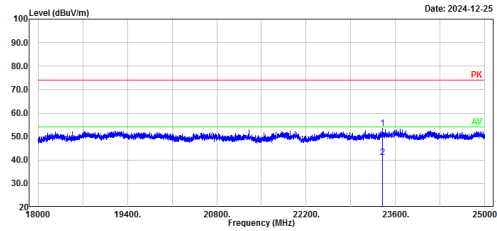
**18-25GHz:**

No Emission was detected in the range 18-25GHz, test was performed on the mode and channel which with the maximum power.

**802.11g, High Channel, Horizontal**

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11g high channel 2462MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TWE-4  
Tester: Colin Yang

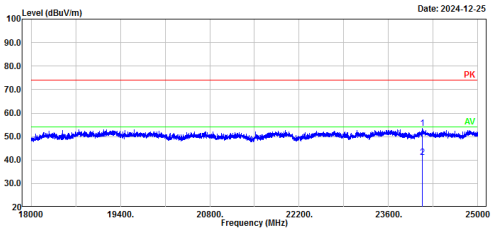


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 23399.80        | 44.81          | 8.70          | 53.51           | 74.00          | 20.49       | Peak     |
| 2   | 23399.80        | 32.36          | 8.70          | 41.06           | 54.00          | 12.94       | Average  |

**802.11g, High Channel, Vertical**

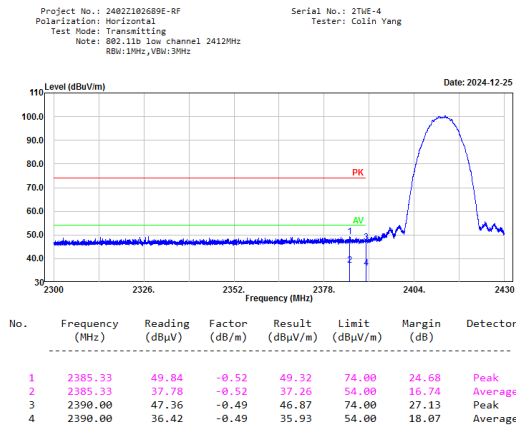
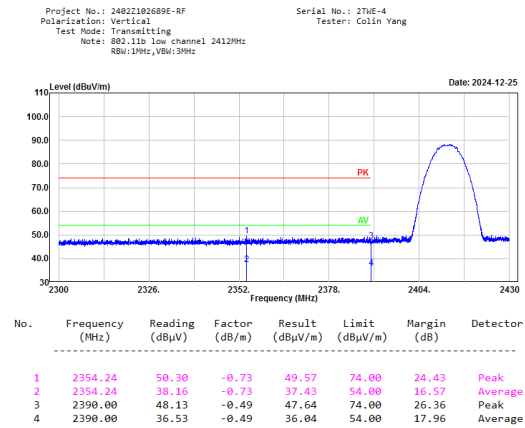
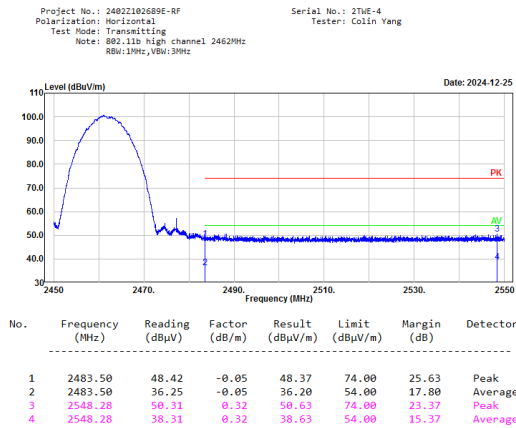
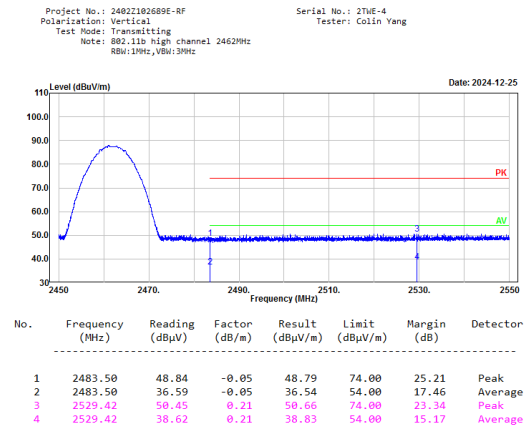
Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11g high channel 2462MHz  
RBW:1MHz,VBW:3MHz

Serial No.: 2TWE-4  
Tester: Colin Yang



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 24129.20        | 44.67          | 8.84          | 53.51           | 74.00          | 20.49       | Peak     |
| 2   | 24129.20        | 32.34          | 8.84          | 41.18           | 54.00          | 12.82       | Average  |

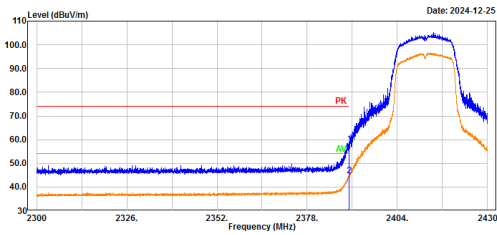


**Bandedge:****802.11b, Low Channel, Bandedge, Horizontal****802.11b, Low Channel, Bandedge, Vertical****802.11b, High Channel, Bandedge, Horizontal****802.11b, High Channel, Bandedge, Vertical**

## 802.11g, Low Channel, Bandedge, Horizontal

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11g low channel 2412MHz  
RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

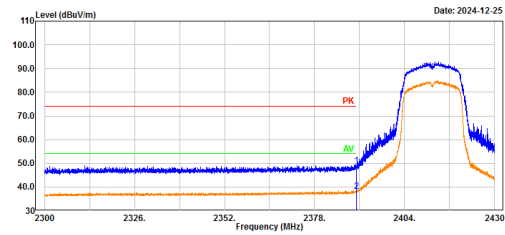


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 2390.00         | 58.65          | -0.49         | 58.16           | 74.00          | 15.84       | Peak     |
| 2   | 2390.00         | 45.34          | -0.49         | 44.85           | 54.00          | 9.15        | Average  |

## 802.11g, Low Channel, Bandedge, Vertical

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11g low channel 2412MHz  
RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

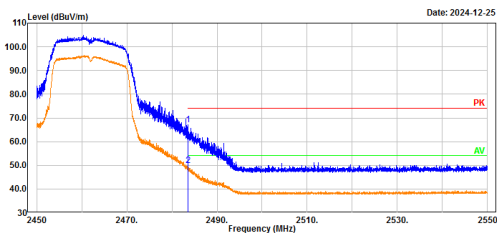


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 2390.00         | 49.65          | -0.49         | 49.16           | 74.00          | 24.84       | Peak     |
| 2   | 2390.00         | 38.75          | -0.49         | 38.26           | 54.00          | 15.74       | Average  |

## 802.11g, High Channel, Bandedge, Horizontal

Project No.: 2402Z102689E-RF  
Polarization: Horizontal  
Test Mode: Transmitting  
Note: 802.11g high channel 2462MHz  
RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang

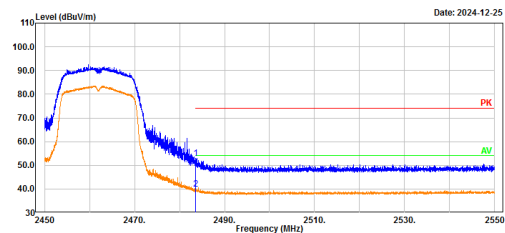


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 2483.50         | 67.25          | -0.05         | 67.20           | 74.00          | 6.80        | Peak     |
| 2   | 2483.50         | 49.86          | -0.05         | 49.81           | 54.00          | 4.19        | Average  |

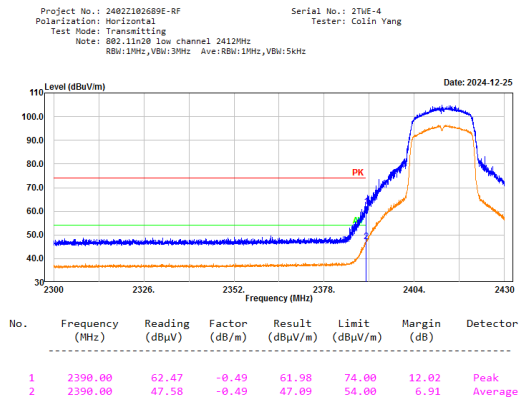
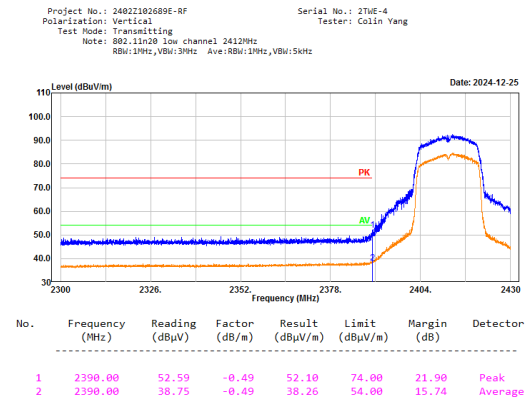
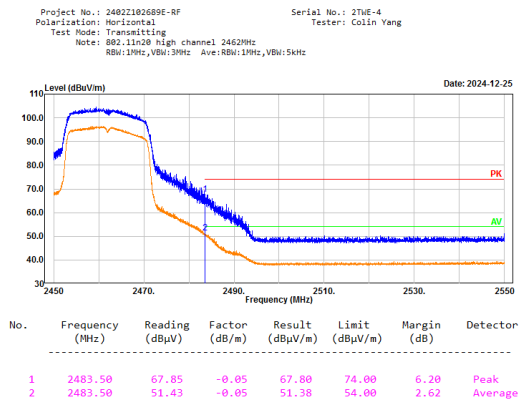
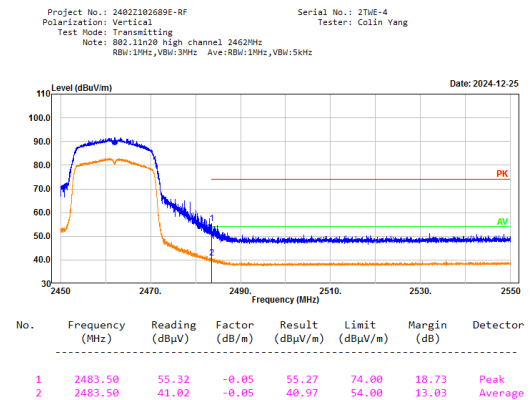
## 802.11g, High Channel, Bandedge, Vertical

Project No.: 2402Z102689E-RF  
Polarization: Vertical  
Test Mode: Transmitting  
Note: 802.11g high channel 2462MHz  
RBW:1MHz, VBW:3MHz Ave:RBW:1MHz, VBW:5kHz

Serial No.: 2TUE-4  
Tester: Colin Yang



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|-----------------|----------------|-------------|----------|
| 1   | 2483.50         | 53.04          | -0.05         | 52.99           | 74.00          | 21.01       | Peak     |
| 2   | 2483.50         | 40.06          | -0.05         | 40.01           | 54.00          | 13.99       | Average  |

**802.11n20, Low Channel, Bandedge, Horizontal****802.11n20, Low Channel, Bandedge, Vertical****802.11n20, High Channel, Bandedge, Horizontal****802.11n20, High Channel, Bandedge, Vertical**

5.3 6dB Emission Bandwidth

Test Information:

|             |            |              |              |
|-------------|------------|--------------|--------------|
| Serial No.: | 2TWE-3     | Test Date:   | 2024/12/25   |
| Test Site:  | RF         | Test Mode:   | Transmitting |
| Tester:     | Tower Qing | Test Result: | Pass         |

Environmental Conditions:

|                       |      |                              |    |                        |       |
|-----------------------|------|------------------------------|----|------------------------|-------|
| Temperature:<br>(°C): | 22.9 | Relative<br>Humidity:<br>(%) | 45 | ATM Pressure:<br>(kPa) | 102.2 |
|-----------------------|------|------------------------------|----|------------------------|-------|

Test Equipment List and Details:

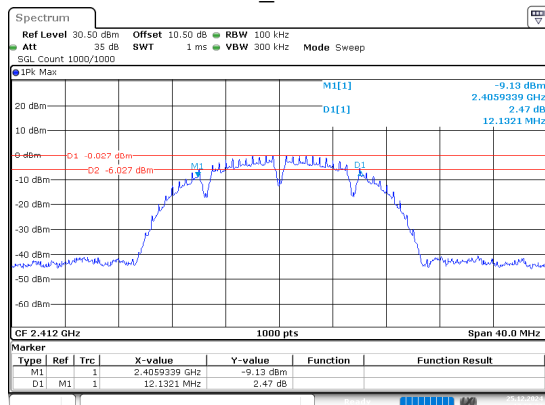
| Manufacturer | Description           | Model | Serial<br>Number | Calibration<br>Date | Calibration<br>Due Date |
|--------------|-----------------------|-------|------------------|---------------------|-------------------------|
| R&S          | Coaxial<br>Attenuator | 10dB  | F-08-EM512       | 2024/06/13          | 2025/06/12              |
| R&S          | Spectrum<br>Analyzer  | FSV40 | 101461           | 2024/09/05          | 2025/09/04              |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

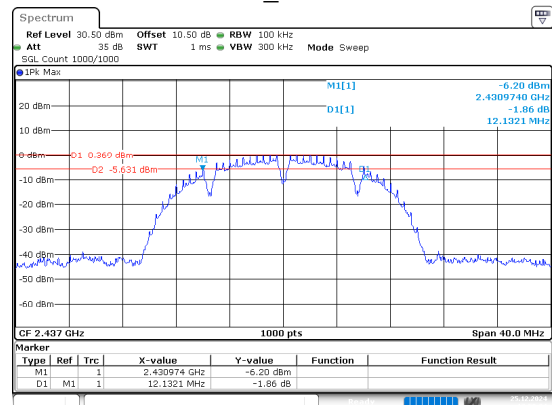
| Mode      | Antenna | Test<br>Frequency<br>(MHz) | Result<br>(MHz) | Limit<br>(MHz) | Verdict |
|-----------|---------|----------------------------|-----------------|----------------|---------|
| 802.11b   | Chain 0 | 2412                       | 12.132          | ≥0.5           | Pass    |
|           |         | 2437                       | 12.132          | ≥0.5           | Pass    |
|           |         | 2462                       | 11.131          | ≥0.5           | Pass    |
| 802.11g   | Chain 0 | 2412                       | 16.416          | ≥0.5           | Pass    |
|           |         | 2437                       | 16.416          | ≥0.5           | Pass    |
|           |         | 2462                       | 16.416          | ≥0.5           | Pass    |
| 802.11n20 | Chain 0 | 2412                       | 17.658          | ≥0.5           | Pass    |
|           |         | 2437                       | 17.658          | ≥0.5           | Pass    |
|           |         | 2462                       | 17.698          | ≥0.5           | Pass    |

## 802.11b\_2412MHz



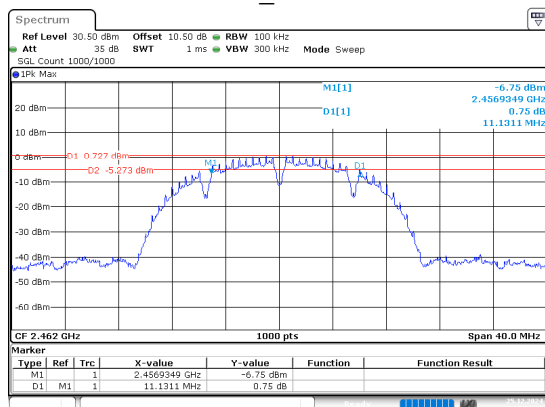
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 17:50:32

## 802.11b\_2437MHz



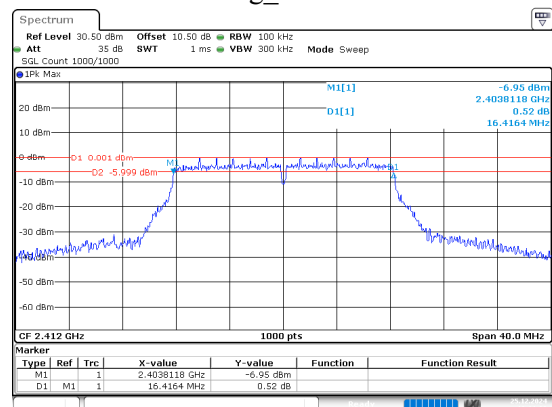
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 17:59:04

## 802.11b\_2462MHz



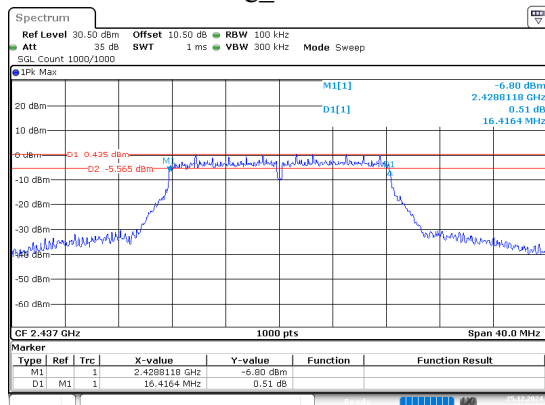
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 18:01:17

## 802.11g\_2412MHz



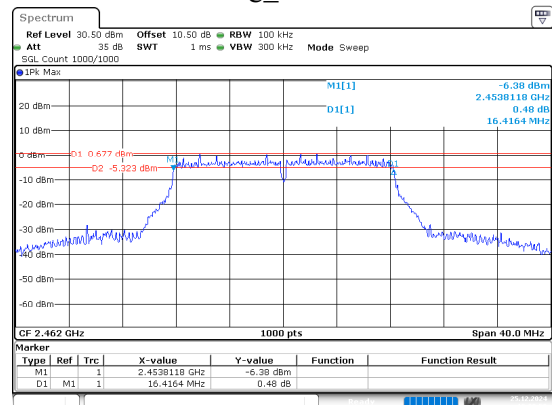
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 19:11:20

## 802.11g\_2437MHz



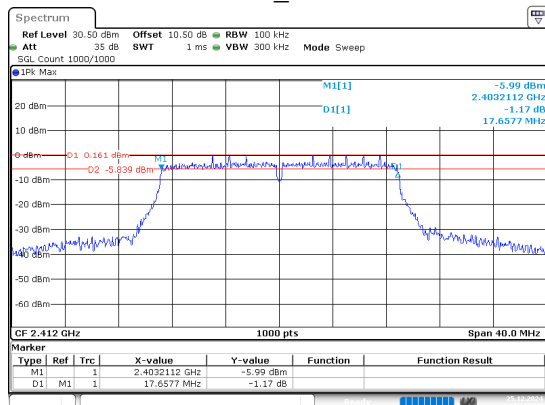
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 19:17:39

## 802.11g\_2462MHz



ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 18:09:59

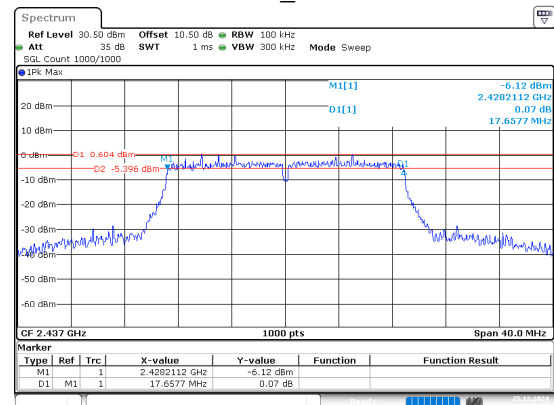
## 802.11n20\_2412MHz



ProjectNo.:2402Z102689E-RF Tester: Tower Qing

Date: 25.DEC.2024 18:19:32

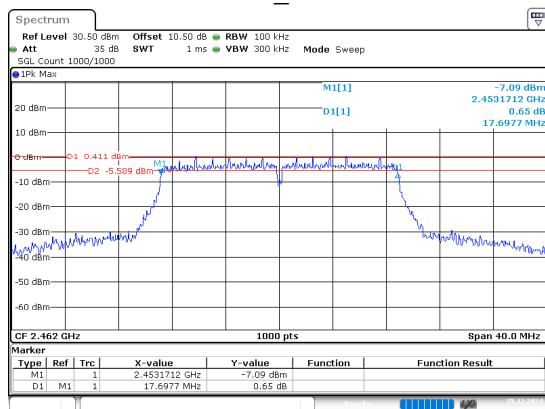
## 802.11n20\_2437MHz



ProjectNo.:2402Z102689E-RF Tester: Tower Qing

Date: 25.DEC.2024 19:00:35

## 802.11n20\_2462MHz



ProjectNo.:2402Z102689E-RF Tester: Tower Qing

Date: 25.DEC.2024 19:19:50

5.4 99% Occupied Bandwidth

Test Information:

|             |            |              |              |
|-------------|------------|--------------|--------------|
| Serial No.: | 2TWE-3     | Test Date:   | 2024/12/25   |
| Test Site:  | RF         | Test Mode:   | Transmitting |
| Tester:     | Tower Qing | Test Result: | N/A          |

Environmental Conditions:

|                       |      |                              |    |                        |       |
|-----------------------|------|------------------------------|----|------------------------|-------|
| Temperature:<br>(°C): | 22.9 | Relative<br>Humidity:<br>(%) | 45 | ATM Pressure:<br>(kPa) | 102.2 |
|-----------------------|------|------------------------------|----|------------------------|-------|

Test Equipment List and Details:

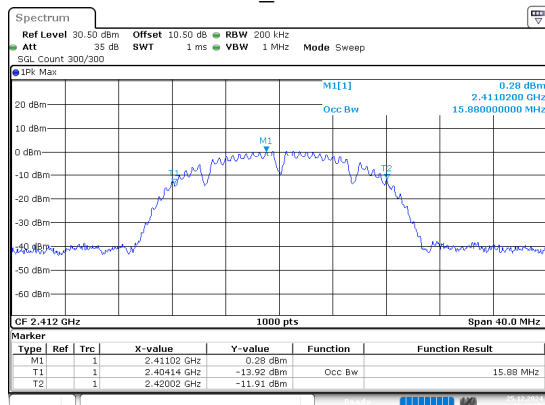
| Manufacturer | Description        | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|-------|---------------|------------------|----------------------|
| R&S          | Coaxial Attenuator | 10dB  | F-08-EM512    | 2024/06/13       | 2025/06/12           |
| R&S          | Spectrum Analyzer  | FSV40 | 101461        | 2024/09/05       | 2025/09/04           |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

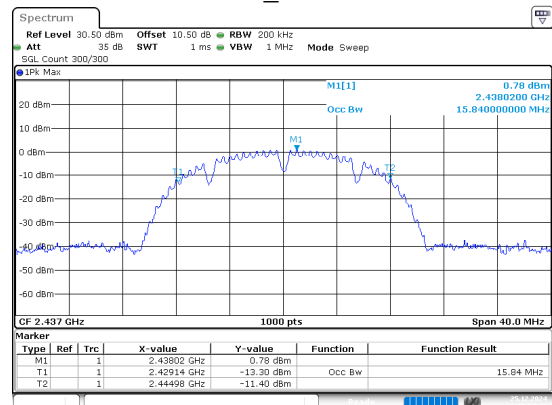
| Mode      | Antenna | Test Frequency (MHz) | 99% OBW (MHz) |
|-----------|---------|----------------------|---------------|
| 802.11b   | Chain 0 | 2412                 | 15.880        |
|           |         | 2437                 | 15.840        |
|           |         | 2462                 | 15.920        |
| 802.11g   | Chain 0 | 2412                 | 16.680        |
|           |         | 2437                 | 16.680        |
|           |         | 2462                 | 16.720        |
| 802.11n20 | Chain 0 | 2412                 | 17.760        |
|           |         | 2437                 | 17.760        |
|           |         | 2462                 | 17.800        |

## 802.11b\_2412MHz



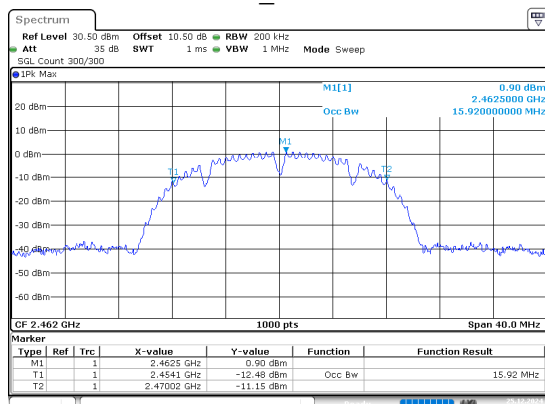
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 17:50:50

## 802.11b\_2437MHz



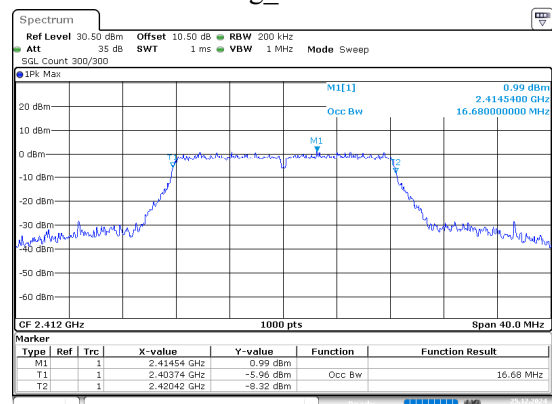
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 17:59:19

## 802.11b\_2462MHz



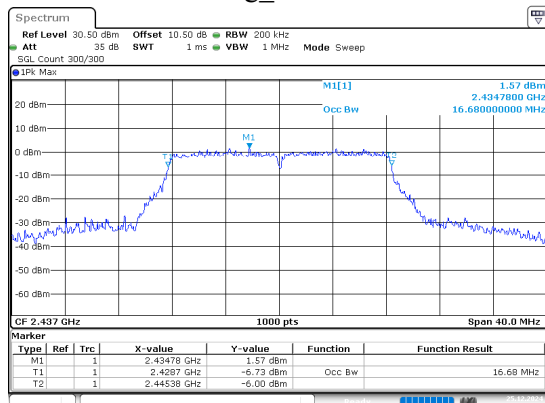
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 18:01:32

## 802.11g\_2412MHz



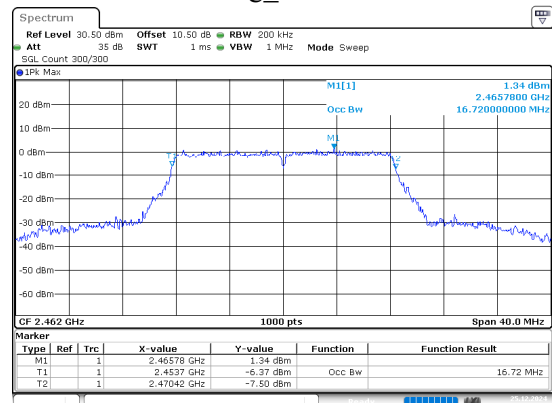
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 19:11:40

## 802.11g\_2437MHz



ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 19:17:56

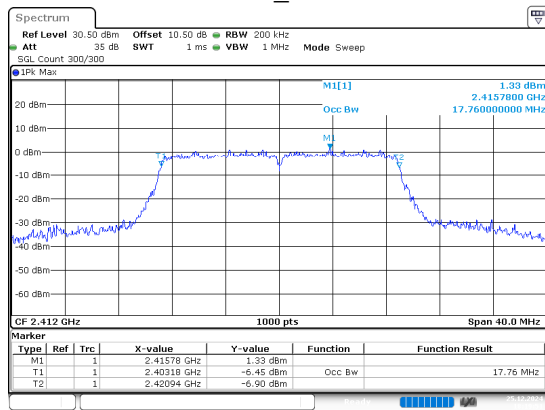
## 802.11g\_2462MHz



ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 19:10:14



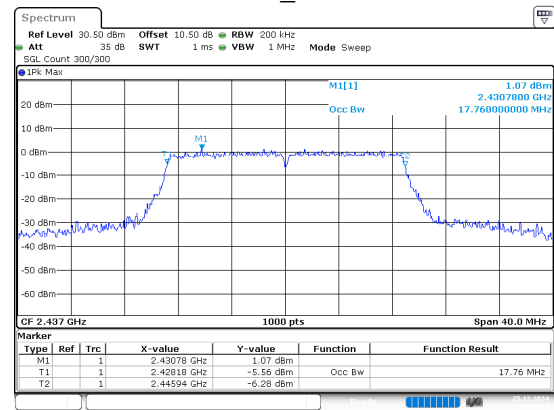
## 802.11n20\_2412MHz



ProjectNo.:2402Z102689E-RF Tester: Tower Qing

Date: 25.DEC.2024 18:19:51

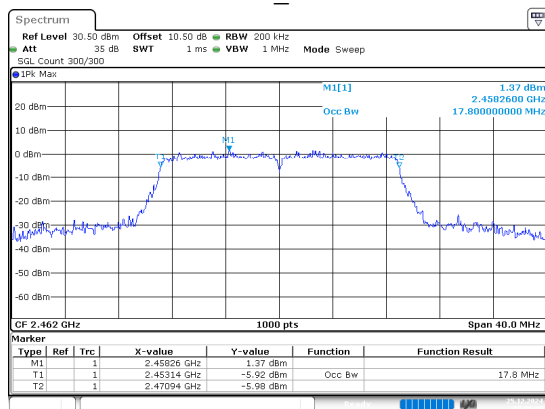
## 802.11n20\_2437MHz



ProjectNo.:2402Z102689E-RF Tester: Tower Qing

Date: 25.DEC.2024 19:00:50

## 802.11n20\_2462MHz



ProjectNo.:2402Z102689E-RF Tester: Tower Qing

Date: 25.DEC.2024 19:20:06

5.5 Maximum Conducted Output Power

Test Information:

|             |            |              |              |
|-------------|------------|--------------|--------------|
| Serial No.: | 2TWE-3     | Test Date:   | 2024/12/25   |
| Test Site:  | RF         | Test Mode:   | Transmitting |
| Tester:     | Tower Qing | Test Result: | Pass         |

Environmental Conditions:

|                       |      |                           |    |                        |       |
|-----------------------|------|---------------------------|----|------------------------|-------|
| Temperature:<br>(°C): | 22.9 | Relative Humidity:<br>(%) | 45 | ATM Pressure:<br>(kPa) | 102.2 |
|-----------------------|------|---------------------------|----|------------------------|-------|

Test Equipment List and Details:

| Manufacturer | Description                 | Model    | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-----------------------------|----------|---------------|------------------|----------------------|
| R&S          | Coaxial Attenuator          | 10dB     | F-08-EM512    | 2024/06/13       | 2025/06/12           |
| Anritsu      | Microwave Peak Power Sensor | MA24418A | 12618         | 2024/08/27       | 2025/08/26           |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

| Mode      | Antenna | Test Frequency (MHz) | Peak Output Power(dBm) | Average Output Power(dBm) | Limit (dBm) | Verdict |
|-----------|---------|----------------------|------------------------|---------------------------|-------------|---------|
| 802.11b   | Chain 0 | 2412                 | 11.52                  | 8.86                      | 30          | Pass    |
|           |         | 2437                 | 11.87                  | 9.36                      | 30          | Pass    |
|           |         | 2462                 | 11.86                  | 9.38                      | 30          | Pass    |
| 802.11g   | Chain 0 | 2412                 | 20.07                  | 8.77                      | 30          | Pass    |
|           |         | 2437                 | 20.22                  | 8.95                      | 30          | Pass    |
|           |         | 2462                 | 20.33                  | 9.17                      | 30          | Pass    |
| 802.11n20 | Chain 0 | 2412                 | 19.94                  | 9.09                      | 30          | Pass    |
|           |         | 2437                 | 20.19                  | 9.12                      | 30          | Pass    |
|           |         | 2462                 | 20.08                  | 9.00                      | 30          | Pass    |

5.6 Power Spectral Density

Test Information:

|             |            |              |              |
|-------------|------------|--------------|--------------|
| Serial No.: | 2TWE-3     | Test Date:   | 2024/12/25   |
| Test Site:  | RF         | Test Mode:   | Transmitting |
| Tester:     | Tower Qing | Test Result: | Pass         |

Environmental Conditions:

|                       |      |                              |    |                        |       |
|-----------------------|------|------------------------------|----|------------------------|-------|
| Temperature:<br>(°C): | 22.9 | Relative<br>Humidity:<br>(%) | 45 | ATM Pressure:<br>(kPa) | 102.2 |
|-----------------------|------|------------------------------|----|------------------------|-------|

Test Equipment List and Details:

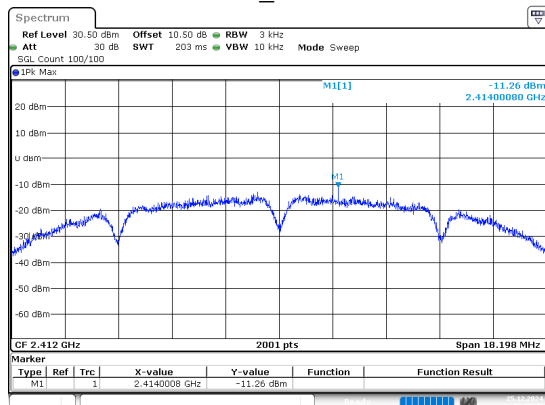
| Manufacturer | Description        | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|-------|---------------|------------------|----------------------|
| R&S          | Coaxial Attenuator | 10dB  | F-08-EM512    | 2024/06/13       | 2025/06/12           |
| R&S          | Spectrum Analyzer  | FSV40 | 101461        | 2024/09/05       | 2025/09/04           |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

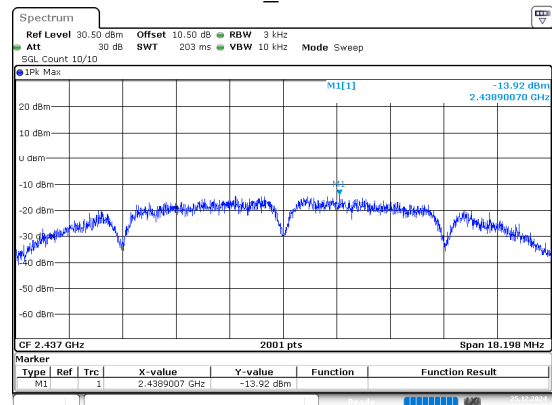
| Mode      | Antenna | Test Frequency<br>(MHz) | Result<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|-----------|---------|-------------------------|----------------------|---------------------|---------|
| 802.11b   | Chain 0 | 2412                    | -11.26               | 8                   | Pass    |
|           |         | 2437                    | -13.92               | 8                   | Pass    |
|           |         | 2462                    | -12.41               | 8                   | Pass    |
| 802.11g   | Chain 0 | 2412                    | -13.48               | 8                   | Pass    |
|           |         | 2437                    | -13.09               | 8                   | Pass    |
|           |         | 2462                    | -12.93               | 8                   | Pass    |
| 802.11n20 | Chain 0 | 2412                    | -12.80               | 8                   | Pass    |
|           |         | 2437                    | -12.57               | 8                   | Pass    |
|           |         | 2462                    | -13.46               | 8                   | Pass    |

## 802.11b\_2412MHz



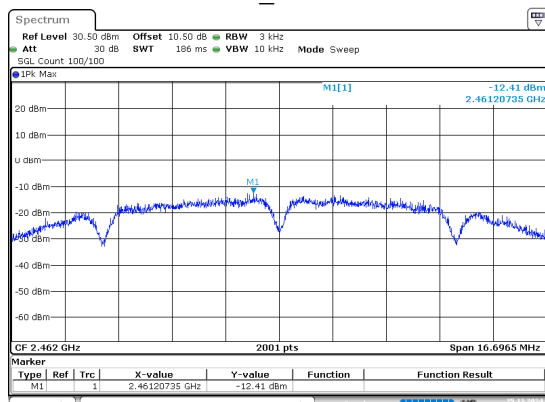
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 17:58:33

## 802.11b\_2437MHz



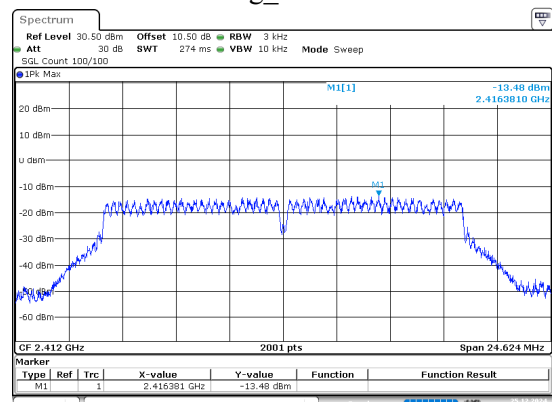
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 19:40:14

## 802.11b\_2462MHz



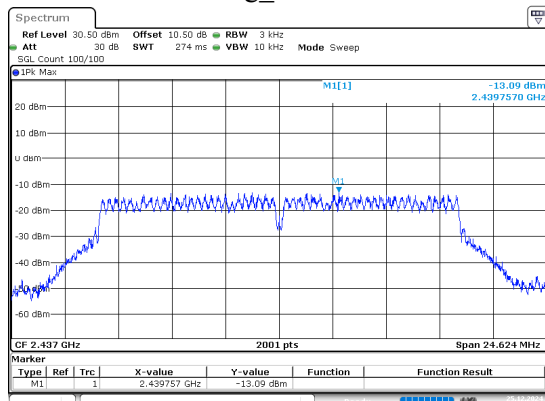
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 18:02:28

## 802.11g\_2412MHz



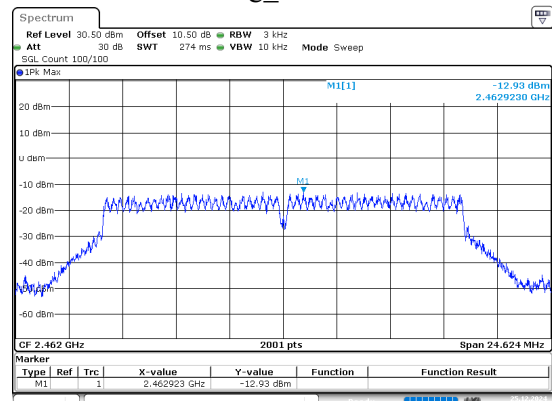
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 19:12:47

## 802.11g\_2437MHz



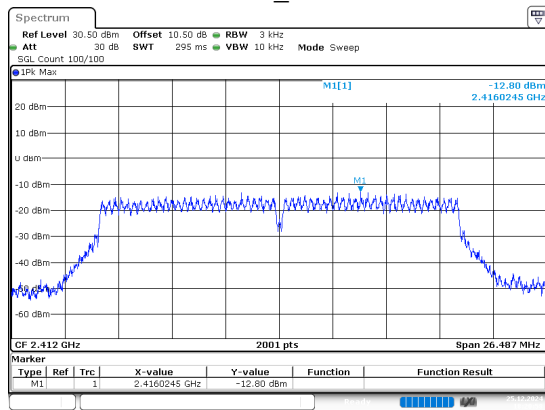
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 19:18:44

## 802.11g\_2462MHz



ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 18:11:17

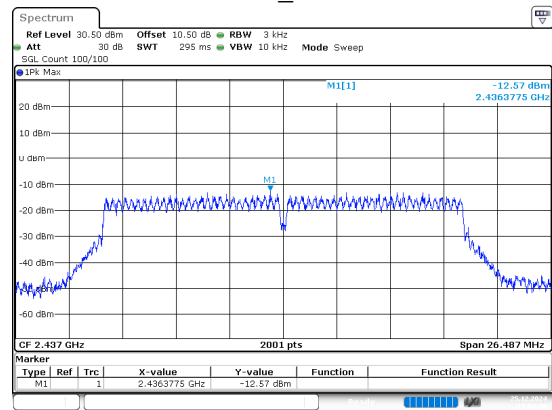
## 802.11n20\_2412MHz



ProjectNo.:2402Z102689E-RF Tester:Tower QIng

Date: 25.DEC.2024 18:20:58

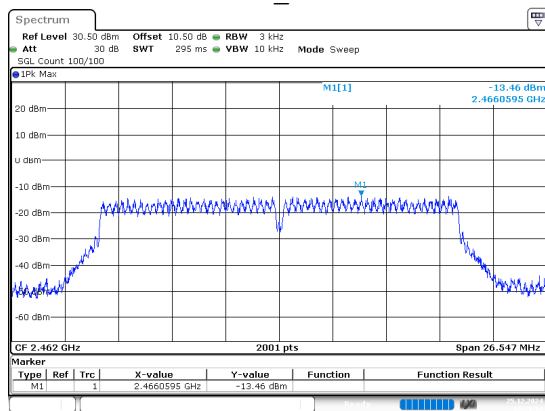
## 802.11n20\_2437MHz



ProjectNo.:2402Z102689E-RF Tester:Tower QIng

Date: 25.DEC.2024 19:01:39

## 802.11n20\_2462MHz



ProjectNo.:2402Z102689E-RF Tester:Tower QIng

Date: 25.DEC.2024 19:21:11

5.7 100 kHz Bandwidth of Frequency Band Edge

Test Information:

|             |            |              |              |
|-------------|------------|--------------|--------------|
| Serial No.: | 2TWE-3     | Test Date:   | 2024/12/25   |
| Test Site:  | RF         | Test Mode:   | Transmitting |
| Tester:     | Tower Qing | Test Result: | Pass         |

Environmental Conditions:

|                       |      |                              |    |                        |       |
|-----------------------|------|------------------------------|----|------------------------|-------|
| Temperature:<br>(°C): | 22.9 | Relative<br>Humidity:<br>(%) | 45 | ATM Pressure:<br>(kPa) | 102.2 |
|-----------------------|------|------------------------------|----|------------------------|-------|

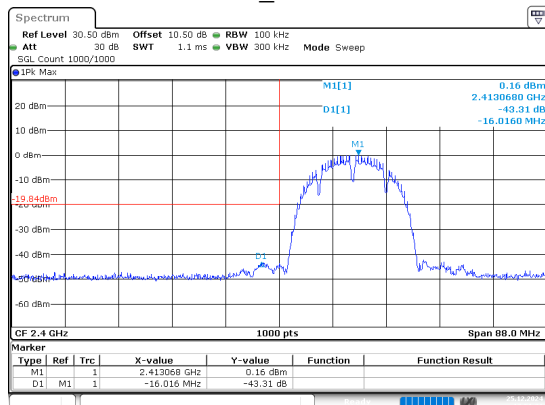
Test Equipment List and Details:

| Manufacturer | Description           | Model | Serial<br>Number | Calibration<br>Date | Calibration<br>Due Date |
|--------------|-----------------------|-------|------------------|---------------------|-------------------------|
| R&S          | Coaxial<br>Attenuator | 10dB  | F-08-EM512       | 2024/06/13          | 2025/06/12              |
| R&S          | Spectrum<br>Analyzer  | FSV40 | 101461           | 2024/09/05          | 2025/09/04              |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

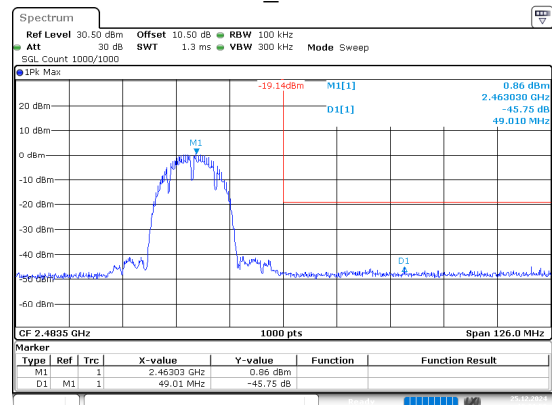
Test Data:

## 802.11b\_2412MHz



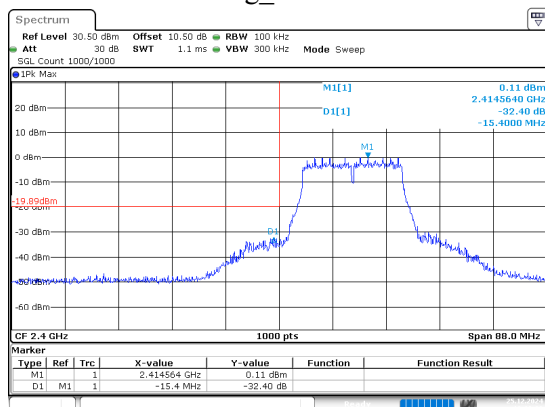
ProjectNo.:2402Z102689E-RF Tester:Tower Qing  
Date: 25.DEC.2024 17:51:31

## 802.11b\_2462MHz



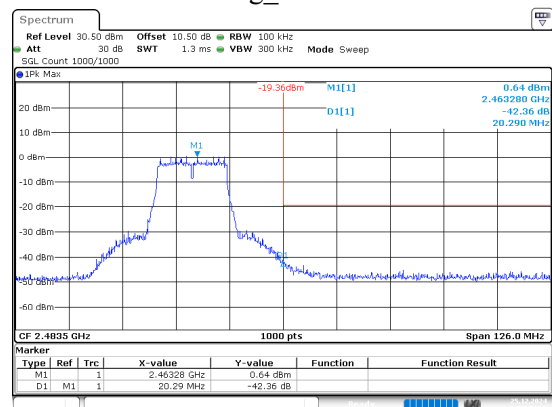
ProjectNo.:2402Z102689E-RF Tester:Tower Qing  
Date: 25.DEC.2024 18:01:59

## 802.11g\_2412MHz



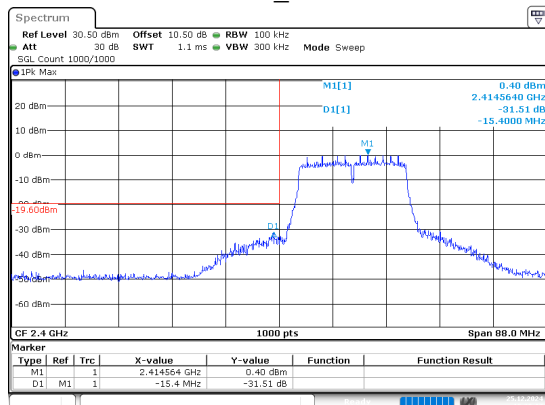
ProjectNo.:2402Z102689E-RF Tester:Tower Qing  
Date: 25.DEC.2024 19:12:09

## 802.11g\_2462MHz



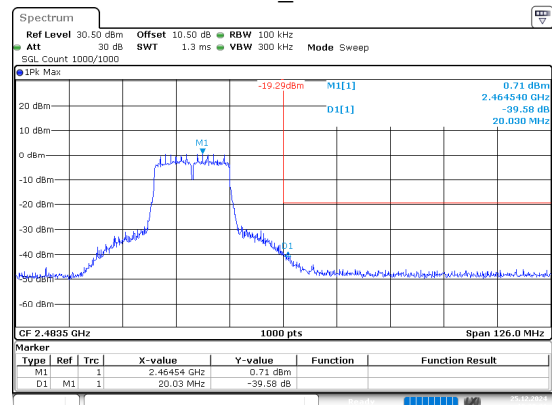
ProjectNo.:2402Z102689E-RF Tester:Tower Qing  
Date: 25.DEC.2024 18:10:39

## 802.11n20\_2412MHz



ProjectNo.:2402Z102689E-RF Tester:Tower Qing  
Date: 25.DEC.2024 18:20:17

## 802.11n20\_2462MHz



ProjectNo.:2402Z102689E-RF Tester:Tower Qing  
Date: 25.DEC.2024 19:20:31

5.8 Duty Cycle

Test Information:

|             |            |              |              |
|-------------|------------|--------------|--------------|
| Serial No.: | 2TWE-3     | Test Date:   | 2024/12/25   |
| Test Site:  | RF         | Test Mode:   | Transmitting |
| Tester:     | Tower Qing | Test Result: | N/A          |

Environmental Conditions:

|                       |      |                           |    |                        |       |
|-----------------------|------|---------------------------|----|------------------------|-------|
| Temperature:<br>(°C): | 22.9 | Relative Humidity:<br>(%) | 45 | ATM Pressure:<br>(kPa) | 102.2 |
|-----------------------|------|---------------------------|----|------------------------|-------|

Test Equipment List and Details:

| Manufacturer | Description        | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|-------|---------------|------------------|----------------------|
| R&S          | Coaxial Attenuator | 10dB  | F-08-EM512    | 2024/06/13       | 2025/06/12           |
| R&S          | Spectrum Analyzer  | FSV40 | 101461        | 2024/09/05       | 2025/09/04           |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

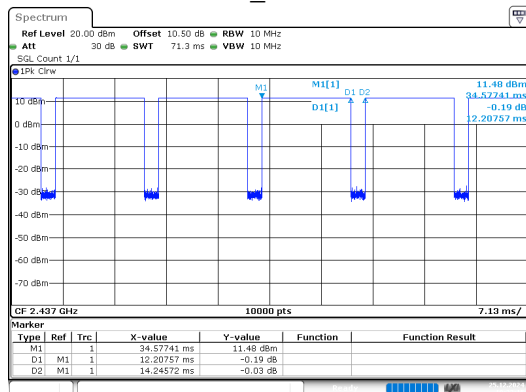
Test Data:

| Mode      | Antenna | Test Frequency (MHz) | Ton (ms) | Ton+Toff (ms) | Duty Cycle (%) | 1/Ton (Hz) | VBW Setting (kHz) |
|-----------|---------|----------------------|----------|---------------|----------------|------------|-------------------|
| 802.11b   | Chain 0 | 2437                 | 12.208   | 14.246        | 85.69          | 82         | 0.100             |
| 802.11g   | Chain 0 | 2437                 | 1.975    | 4.024         | 49.08          | 506        | 1                 |
| 802.11n20 | Chain 0 | 2437                 | 1.809    | 3.856         | 46.91          | 553        | 1                 |

Duty Cycle = Ton/(Ton+Toff)\*100%

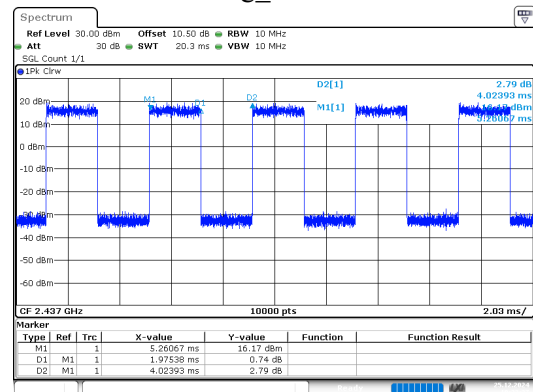


## 802.11b\_2437MHz



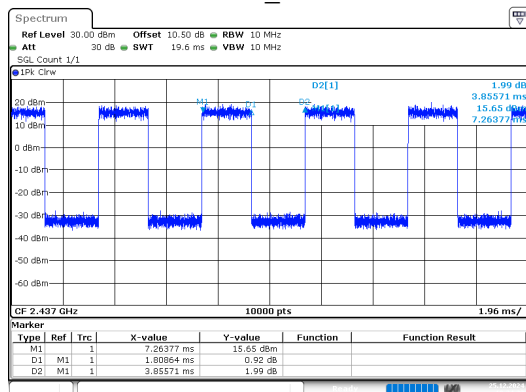
ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 19:22:14

## 802.11g\_2437MHz



ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 19:23:27

## 802.11n20\_2437MHz



ProjectNo.:2402Z102689E-RF Tester: Tower Qing  
Date: 25.DEC.2024 19:24:33

## **EXHIBIT A - EUT PHOTOGRAPHS**

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Please refer to the attachment 2402Z102689E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402Z102689E-RF-INP EUT INTERNAL PHOTOGRAPHS.

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## **EXHIBIT B - TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment 2402Z102689E-RF-00-TSP TEST SETUP PHOTOGRAPHS.

## EXHIBIT C - RF EXPOSURE EVALUATION

### Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

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  $\leq 50$  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  $\leq 7.5$  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  $\leq 50$  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.

### Measurement Result

The max conducted power including tune-up tolerance is 9.5 dBm (8.91 mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$   
 $= 8.91/5 \cdot (\sqrt{2.462}) = 2.8 < 3.0$

Note: the max conducted power including tune-up tolerance was declared by manufacturer.

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

\*\*\*\*\* END OF REPORT \*\*\*\*\*