



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Telepower Communication Co., Ltd.

Address: 5 Bld, Zone A, Hantian Technology Town No.17 ShenHai RD, Nanhai District Foshan China

FCC ID: 2AJ2B-K8

Product Name: Self-Service Kiosk

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

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

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

Report Number: CR231062479-00C

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Test Facility

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

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

Declarations

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231062479-00C	Original Report	2024/3/14

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Self-Service Kiosk
Trade Name:	Telpo
EUT Model:	K8
Operation Frequency:	2412-2462 MHz(802.11b/g/n ht20) 2422-2452 MHz(802.11n ht40)
Maximum Peak Output Power (Conducted):	22.32 dBm
Modulation Type:	802.11b:DSSS-DBPSK, DQPSK, CCK 802.11g/n:OFDM-BPSK, QPSK, 16QAM, 64QAM
Rated Input Voltage:	DC 24V from adapter
Serial Number:	2CPG-1 for RF test 2CPG-2 for CE&RE test
EUT Received Date:	2023/10/27
EUT Received Status:	Good

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

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/
Per section 15.31(m), the below frequencies were performed the test as below:			
Test Channel		Frequency (MHz)	
Lowest		2412	
Middle		2437	
Highest		2462	

For 802.11n ht40:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	7	2442
4	2427	8	2447
5	2432	9	2452
6	2437	/	/
Per section 15.31(m), the below frequencies were performed the test as below:			
Test Channel		Frequency (MHz)	
Lowest		2422	
Middle		2437	
Highest		2452	

Antenna Information Detail▲:

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain (dBi)
FPC	50	2.4~2.5GHz	3.95

The Method of §15.203 Compliance:

- ☒ Antenna was permanently attached to the unit.
☐ Antenna use a unique type of connector to attach to the EUT.
☐ Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter	GVE	GM130-2400500-F	Input: AC 100-240V, 50/60Hz, 2.5A Output: DC 24.0V, 5.0A, 120.0W

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

For 802.11b/g/n/ax:

EUT Operation Mode:		The system was configured for testing in Engineering Mode, which was provided by the manufacturer.		
Equipment Modifications:		No		
EUT Exercise Software:		cmd		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲ :				
Test Modes	Test Channels	Test Frequency	Data rate	Power Level Setting
802.11b	Lowest	2412	1Mbps	46
	Middle	2442	1Mbps	46
	Highest	2472	1Mbps	46
802.11g	Lowest	2412	6Mbps	47
	Middle	2442	6Mbps	47
	Highest	2472	6Mbps	47
802.11n ht20	Lowest	2412	MCS0	46
	Middle	2442	MCS0	46
	Highest	2472	MCS0	46
802.11n ht40	Lowest	2422	MCS0	44
	Middle	2442	MCS0	44
	Highest	2462	MCS0	44
Note: 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.				

1.2.2 Support Equipment List and Details

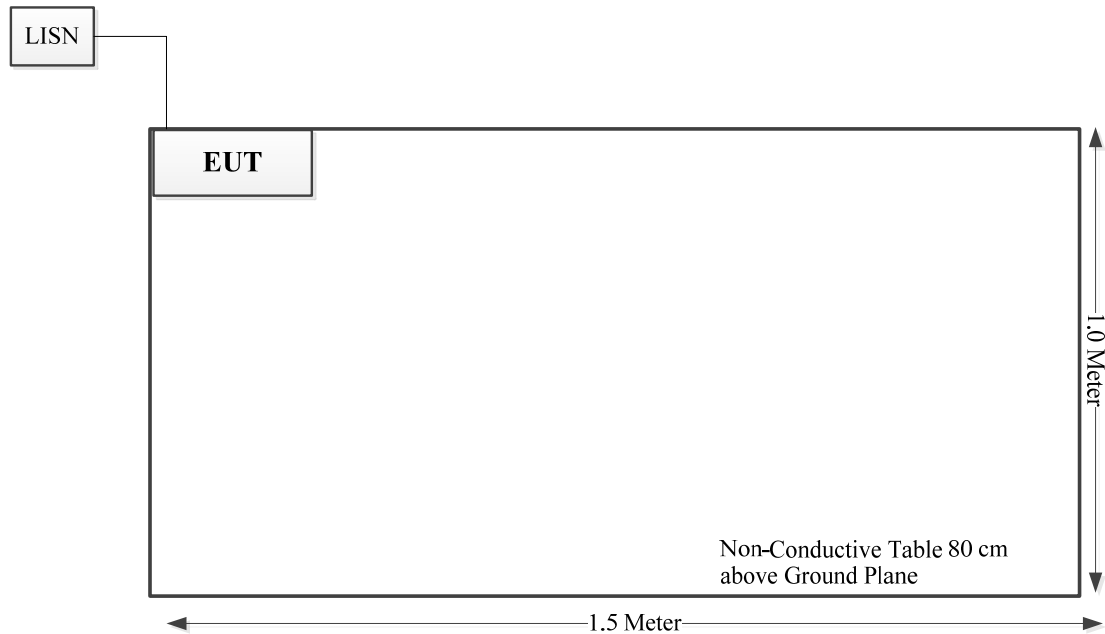
Manufacturer	Description	Model	Serial Number
Unknown	Receptacle	Unknown	Unknown

1.2.3 Support Cable List and Details

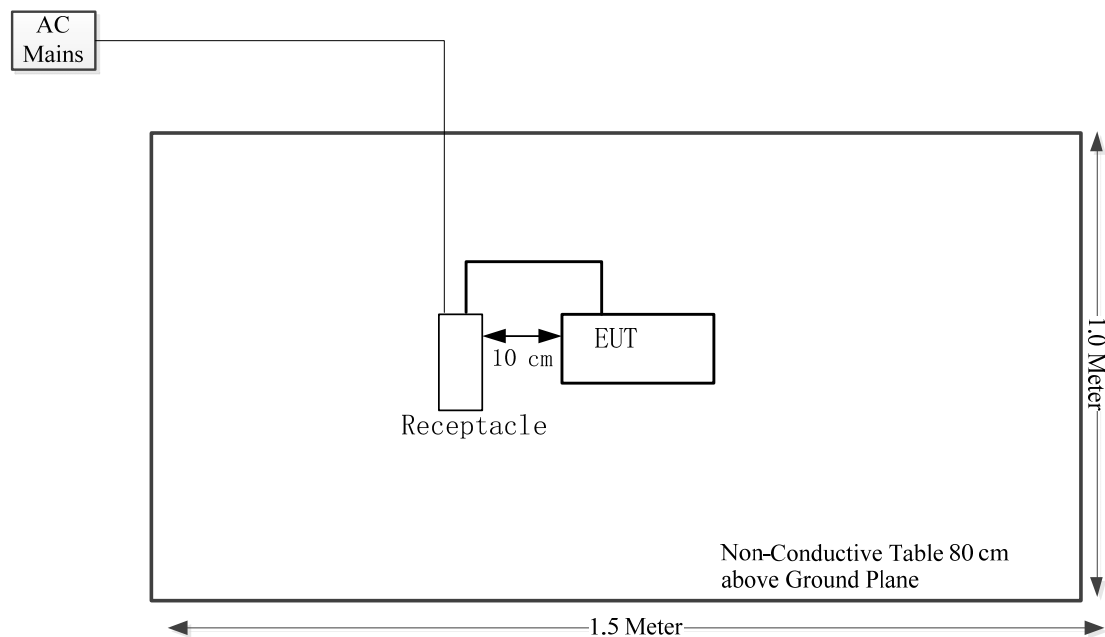
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Cable	No	No	1	EUT	Receptacle

1.2.4 Block Diagram of Test Setup

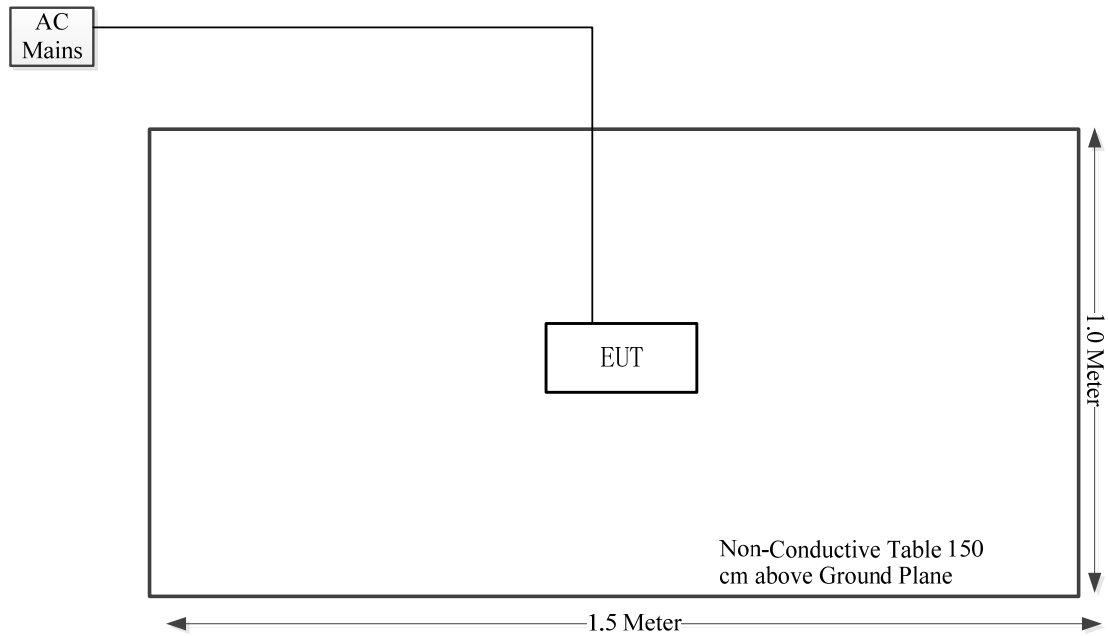
AC Line Conducted Emissions:



Radiated Spurious Emissions (below 1GHz):



Radiated Spurious Emissions (above 1GHz):



1.3 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 4.12dB, 30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	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

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

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

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

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

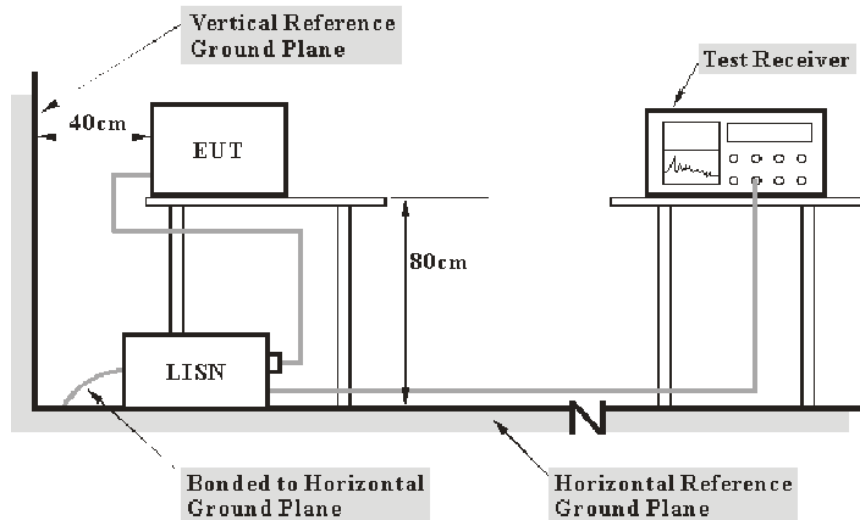
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

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

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

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

3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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

The spacing between the peripherals was 10 cm.

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

3.1.3 EMI Test Receiver Setup

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

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

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

3.1.4 Test Procedure

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

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

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

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

Margin = Limit – Result

3.2 Radiation Spurious Emissions

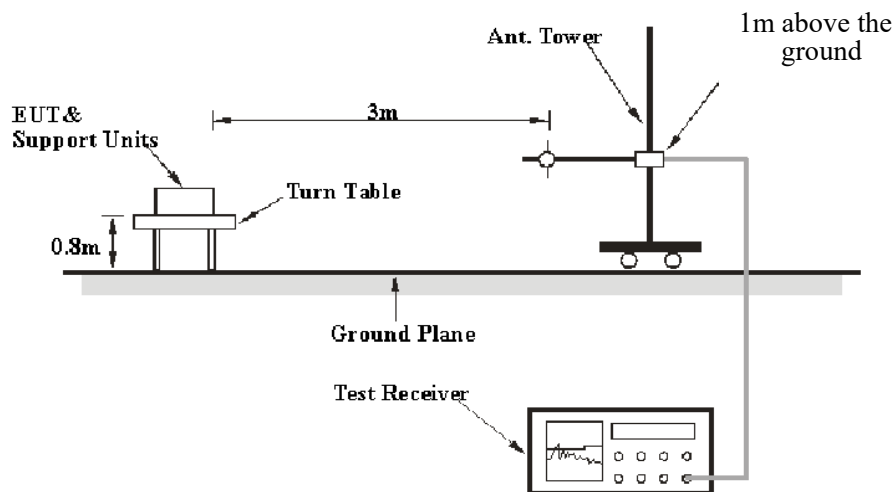
3.2.1 Applicable Standard

FCC §15.247 (d);

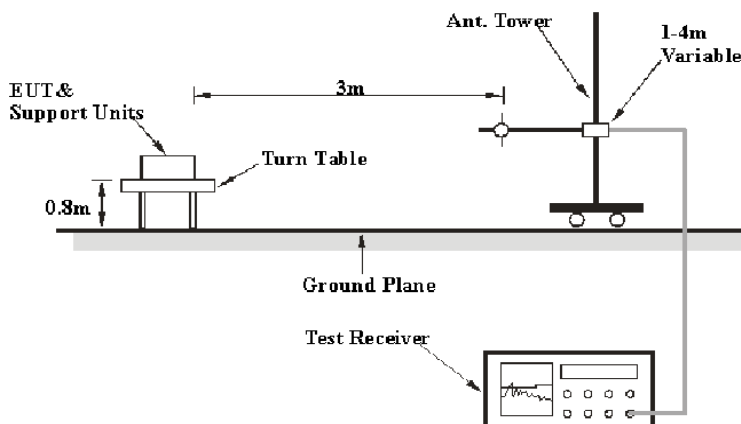
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

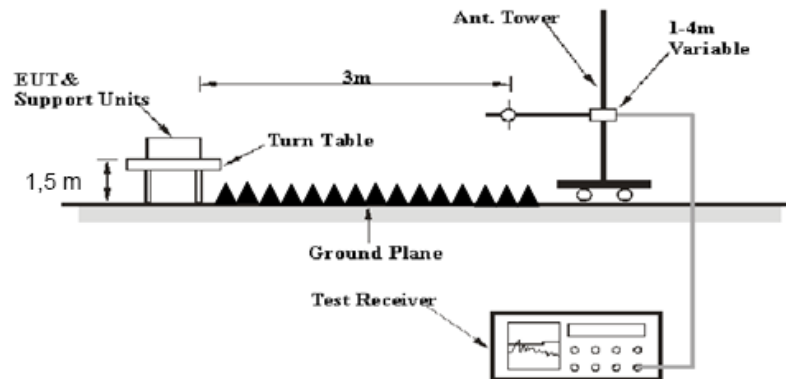
3.2.2 EUT Setup

9 kHz-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 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

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.

3.2.3 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:

9 kHz -1000 MHz:

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

1GHz- 25GHz:

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

Note: T is minimum transmission duration

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

3.2.4 Test Procedure

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

Data was recorded in Quasi-peak detection mode for frequency range of 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.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

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

Margin = Limit – Result

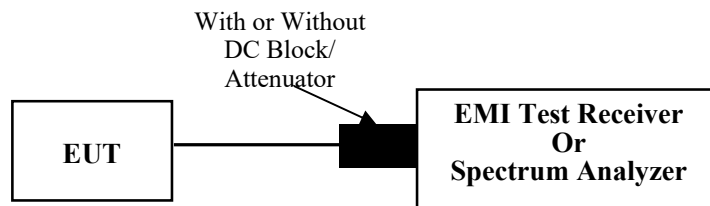
3.3 Minimum 6 dB Emission Bandwidth

3.3.1 Applicable Standard

FCC §15.247 (a)(2)

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

3.3.2 EUT Setup



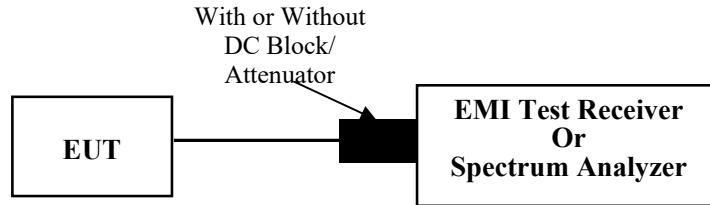
3.3.3 Test Procedure

According to ANSI C63.10-2013 Section 11.8

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

3.4 99% Occupied Bandwidth

3.4.1 EUT Setup



3.4.2 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 $[10 \log (OBW/RBW)]$ 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 may be reported in addition to the plot(s).

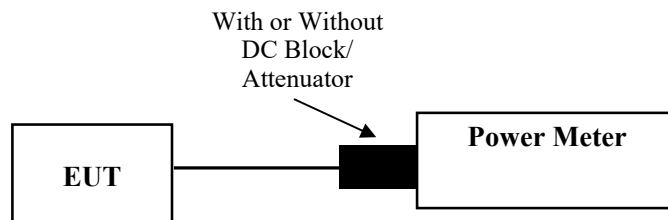
3.5 Maximum Conducted Output Power

3.5.1 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.

3.5.2 EUT Setup



3.5.3 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.

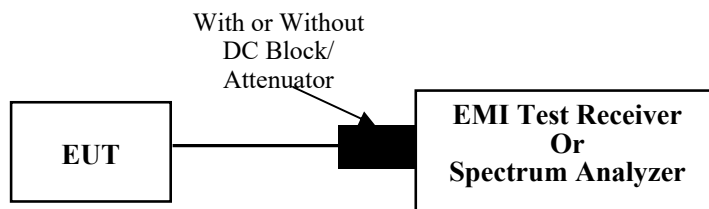
3.6 Maximum Power Spectral Density

3.6.1 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.

3.6.2 EUT Setup



3.6.3 Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

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

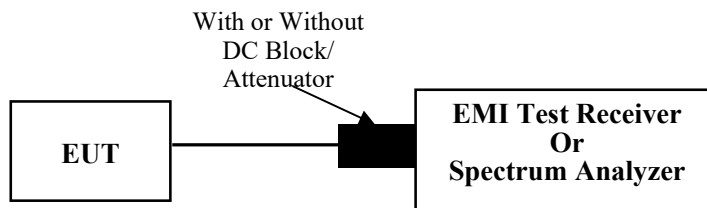
3.7 100 kHz Bandwidth of Frequency Band Edge

3.7.1 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)).

3.7.2 EUT Setup



3.7.3 Test Procedure

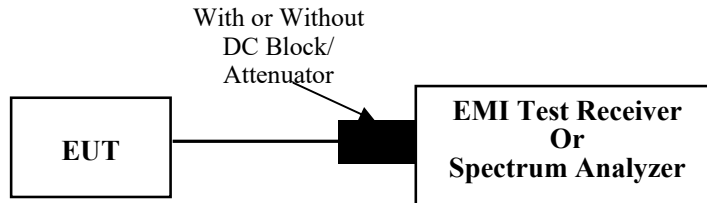
According to ANSI C63.10-2013 Section 11.11

- 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.

3.8 Duty Cycle

3.8.1 EUT Setup



3.8.2 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 OFF times of the transmitted signal:

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

3.9 Antenna Requirement

3.9.1 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.

3.9.2 Judgment

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

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	2CPG-2	Test Date:	2023/12/18
Test Site:	CE	Test Mode:	Transmitting(maximum output power mode 802.11b,Lowest channel)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.1	Relative Humidity: (%)	35	ATM Pressure: (kPa)	101.8
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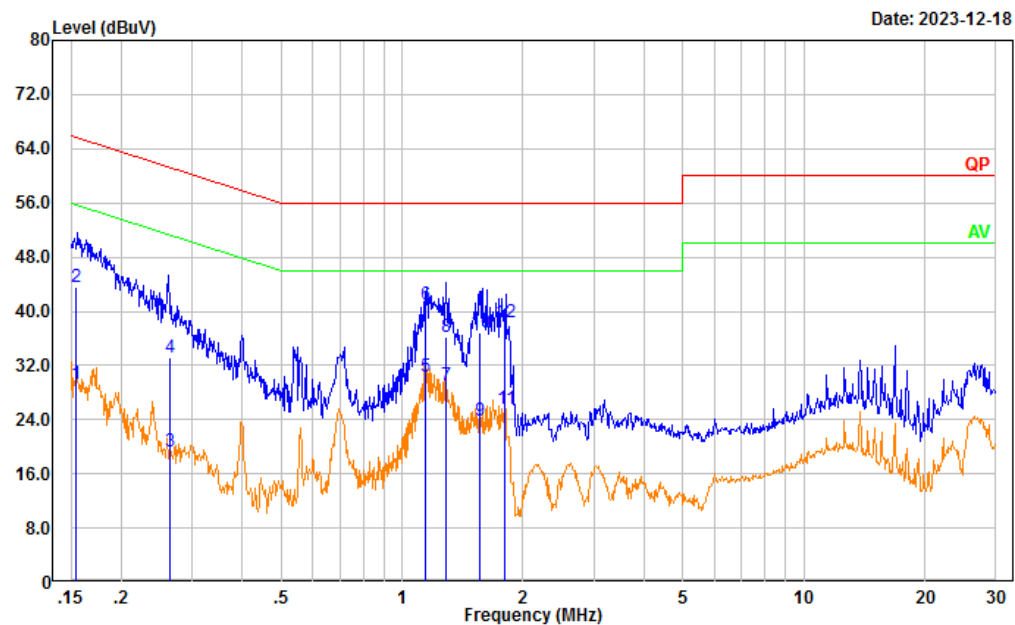
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/3/31	2024/3/30
R&S	EMI Test Receiver	ESR3	102726	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/8/6	2024/8/5
Audix	Test Software	E3	190306 (V9)	N/A	N/A

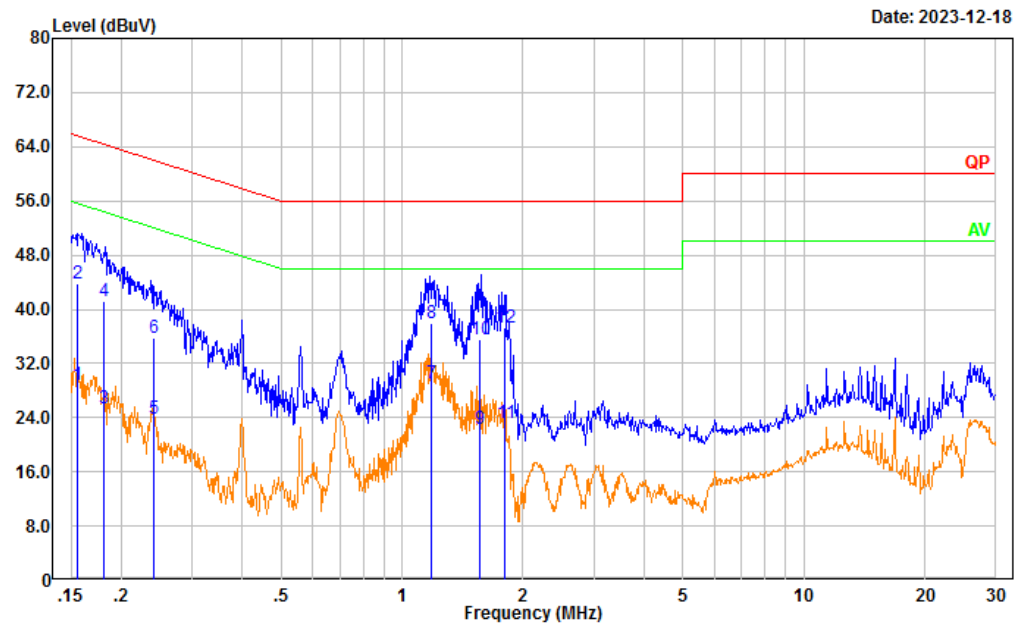
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Project No.: CR231062479-RF
 Tester: David Huang
 Port: Line
 Note: Transmitting(2.4G WIFI)



Project No.: CR231062479-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(2.4G WIFI)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.155	19.24	9.61	28.85	55.72	26.87	Average
2	0.155	34.25	9.61	43.86	65.72	21.86	QP
3	0.181	15.84	9.61	25.45	54.42	28.97	Average
4	0.181	31.50	9.61	41.11	64.42	23.31	QP
5	0.242	14.30	9.61	23.91	52.03	28.12	Average
6	0.242	26.17	9.61	35.78	62.03	26.25	QP
7	1.181	19.34	9.62	28.96	46.00	17.04	Average
8	1.181	28.37	9.62	37.99	56.00	18.01	QP
9	1.566	12.71	9.63	22.34	46.00	23.66	Average
10	1.566	25.84	9.63	35.47	56.00	20.53	QP
11	1.805	13.64	9.63	23.27	46.00	22.73	Average
12	1.805	27.60	9.63	37.23	56.00	18.77	QP

4.2 Radiation Spurious Emissions

Serial Number:	2CPG-2	Test Date:	Below 1G :2024/1/12 Above 1G :2023/12/05
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Vic Du, Tao Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1~25.4	Relative Humidity: (%)	42~53	ATM Pressure: (kPa)	101.3~101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Below 1G					
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
BACL	Loop Antenna	1313-1A	3110611	2023/12/4	2026/12/3
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2024/1/11	2025/1/10
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2024/1/11	2025/1/10
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
Above 1G					
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1- 1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1- 2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
Audix	Test Software	E3	201021 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536- JO	15964001005	2023/9/15	2024/9/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362- 200200	235772-001	2023/8/6	2024/8/5
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2023/8/6	2024/8/5
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/8/6	2024/8/5

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

Test Data:

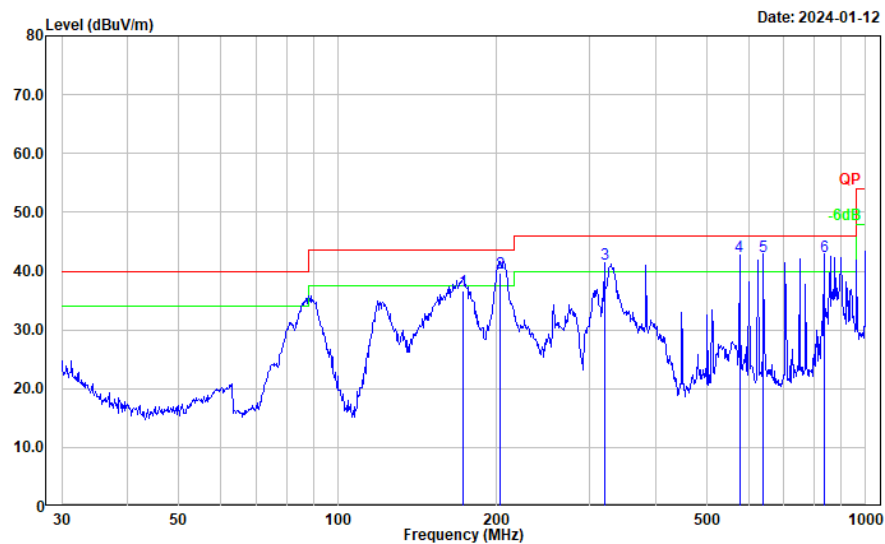
Please refer to the below table and plots.

1) 9k-30MHz

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

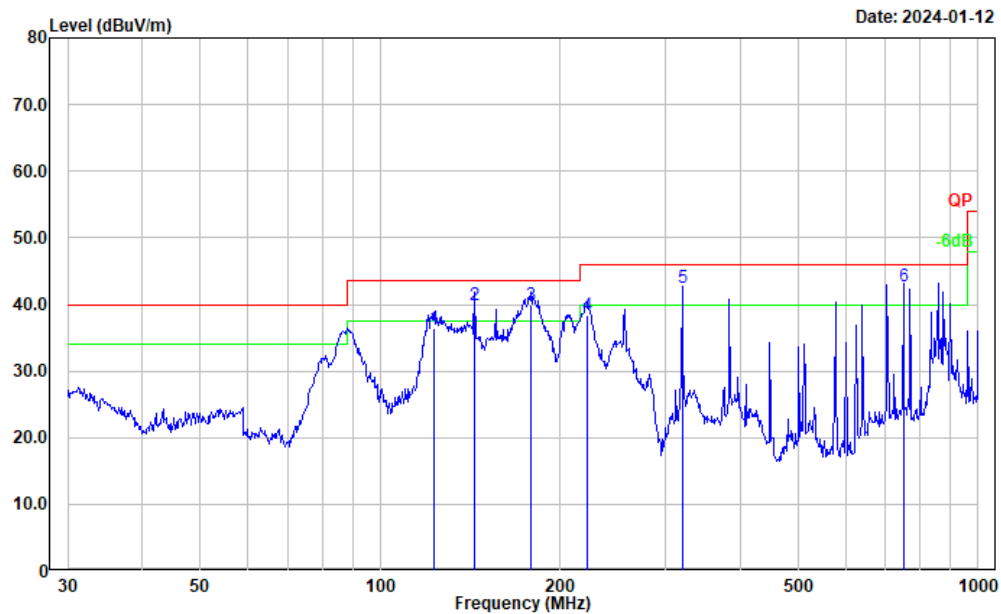
2) 30MHz-1GHz (Maximum Conducted Output Power mode 802.11 b low channel)

Project No.: CR231062479-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting(2.4G WIFI)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	173.205	49.57	-12.84	36.73	43.50	6.77	QP
2	202.810	52.56	-12.87	39.69	43.50	3.81	QP
3	319.937	51.16	-10.07	41.09	46.00	4.91	QP
4	576.644	47.05	-4.58	42.47	46.00	3.53	QP
5	640.611	46.19	-3.74	42.45	46.00	3.55	QP
6	833.317	43.43	-0.90	42.53	46.00	3.47	QP

Project No.: CR231062479-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting(2.4G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	122.834	47.42	-10.90	36.52	43.50	6.98	QP
2	143.830	51.99	-12.07	39.92	43.50	3.58	QP
3	178.758	53.22	-13.37	39.85	43.50	3.65	QP
4	221.392	51.90	-13.60	38.30	46.00	7.70	QP
5	319.937	52.59	-10.07	42.52	46.00	3.48	QP
6	750.108	45.07	-2.44	42.63	46.00	3.37	QP

3) 1-25GHz:**802.11b Mode**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
2390.000	35.83	PK	H	31.71	67.54	74.00	6.46
2390.000	15.73	AV	H	31.71	47.44	54.00	6.56
2390.000	33.84	PK	V	31.71	65.55	74.00	8.45
2390.000	14.74	AV	V	31.71	46.45	54.00	7.55
4824.000	39.25	PK	H	11.26	50.51	74.00	23.49
4824.000	32.21	AV	H	11.26	43.47	54.00	10.53
4824.000	38.06	PK	V	11.26	49.32	74.00	24.68
4824.000	31.27	AV	V	11.26	42.53	54.00	11.47
Middle Channel: 2437 MHz							
4874.000	38.59	PK	H	11.45	50.04	74.00	23.96
4874.000	31.69	AV	H	11.45	43.14	54.00	10.86
4874.000	37.68	PK	V	11.45	49.13	74.00	24.87
4874.000	30.59	AV	V	11.45	42.04	54.00	11.96
High Channel: 2462 MHz							
2483.500	26.16	PK	H	32.19	58.35	74.00	15.65
2483.500	16.52	AV	H	32.19	48.71	54.00	5.29
2483.500	25.09	PK	V	32.19	57.28	74.00	16.72
2483.500	15.36	AV	V	32.19	47.55	54.00	6.45
4924.000	40.27	PK	H	11.67	51.94	74.00	22.06
4924.000	33.30	AV	H	11.67	44.97	54.00	9.03
4924.000	39.47	PK	V	11.67	51.14	74.00	22.86
4924.000	32.74	AV	V	11.67	44.41	54.00	9.59

802.11g Mode

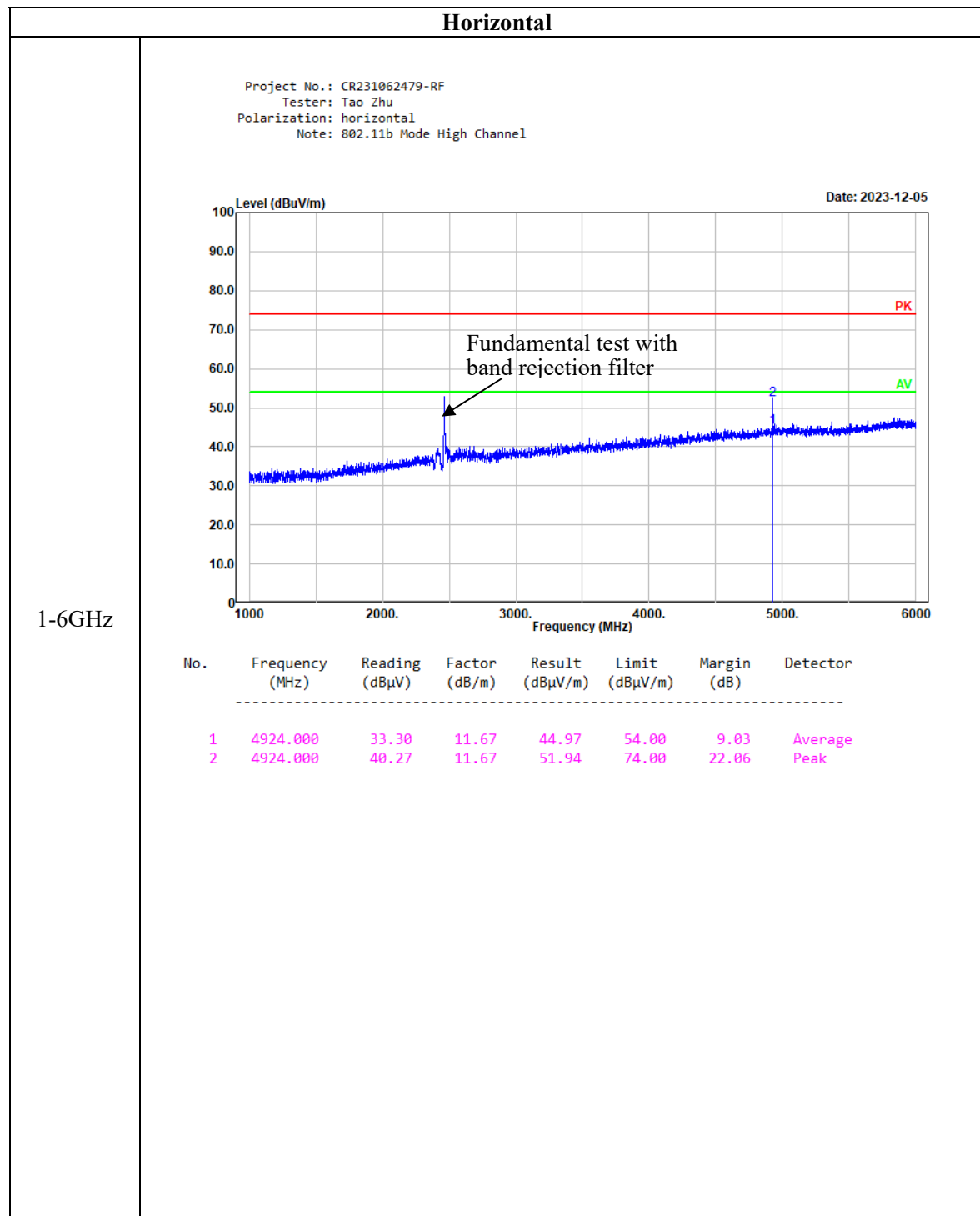
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
2390.000	37.75	PK	H	31.71	69.46	74.00	4.54
2390.000	16.93	AV	H	31.71	48.64	54.00	5.36
2390.000	36.61	PK	V	31.71	68.32	74.00	5.68
2390.000	14.70	AV	V	31.71	46.41	54.00	7.59
4824.000	37.05	PK	H	11.26	48.31	74.00	25.69
4824.000	24.25	AV	H	11.26	35.51	54.00	18.49
4824.000	36.31	PK	V	11.26	47.57	74.00	26.43
4824.000	22.92	AV	V	11.26	34.18	54.00	19.82
Middle Channel: 2437 MHz							
4874.000	37.16	PK	H	11.45	48.61	74.00	25.39
4874.000	24.38	AV	H	11.45	35.83	54.00	18.17
4874.000	35.96	PK	V	11.45	47.41	74.00	26.59
4874.000	23.01	AV	V	11.45	34.46	54.00	19.54
High Channel: 2462 MHz							
2483.500	39.78	PK	H	32.19	71.97	74.00	2.03
2483.500	17.49	AV	H	32.19	49.68	54.00	4.32
2483.500	39.06	PK	V	32.19	71.25	74.00	2.75
2483.500	14.95	AV	V	32.19	47.14	54.00	6.86
4924.000	36.41	PK	H	11.67	48.08	74.00	25.92
4924.000	23.30	AV	H	11.67	34.97	54.00	19.03
4924.000	36.00	PK	V	11.67	47.67	74.00	26.33
4924.000	22.91	AV	V	11.67	34.58	54.00	19.42

802.11n ht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
2390.000	36.64	PK	H	31.71	68.35	74.00	5.65
2390.000	15.38	AV	H	31.71	47.09	54.00	6.91
2390.000	35.60	PK	V	31.71	67.31	74.00	6.69
2390.000	14.91	AV	V	31.71	46.62	54.00	7.38
4824.000	36.86	PK	H	11.26	48.12	74.00	25.88
4824.000	24.51	AV	H	11.26	35.77	54.00	18.23
4824.000	36.81	PK	V	11.26	48.07	74.00	25.93
4824.000	24.22	AV	V	11.26	35.48	54.00	18.52
Middle Channel: 2437 MHz							
4874.000	36.99	PK	H	11.45	48.44	74.00	25.56
4874.000	24.62	AV	H	11.45	36.07	54.00	17.93
4874.000	36.83	PK	V	11.45	48.28	74.00	25.72
4874.000	23.86	AV	V	11.45	35.31	54.00	18.69
High Channel: 2462 MHz							
2483.500	38.02	PK	H	32.19	70.21	74.00	3.79
2483.500	15.70	AV	H	32.19	47.89	54.00	6.11
2483.500	36.79	PK	V	32.19	68.98	74.00	5.02
2483.500	14.53	AV	V	32.19	46.72	54.00	7.28
4924.000	36.76	PK	H	11.67	48.43	74.00	25.57
4924.000	23.05	AV	H	11.67	34.72	54.00	19.28
4924.000	35.91	PK	V	11.67	47.58	74.00	26.42
4924.000	22.60	AV	V	11.67	34.27	54.00	19.73

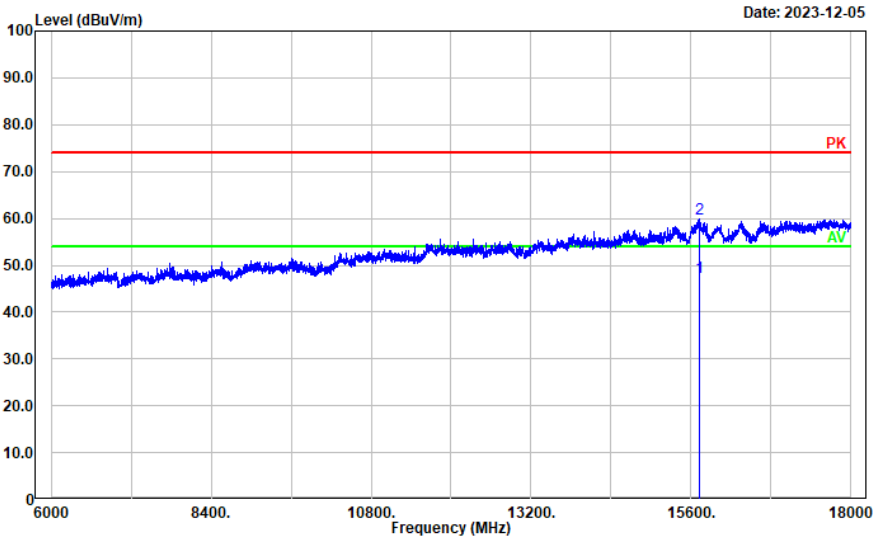
802.11n ht40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2422				MHz			
2390.000	36.02	PK	H	31.71	67.73	74.00	6.27
2390.000	15.81	AV	H	31.71	47.52	54.00	6.48
2390.000	35.20	PK	V	31.71	66.91	74.00	7.09
2390.000	14.84	AV	V	31.71	46.55	54.00	7.45
4844.000	36.99	PK	H	11.31	48.30	74.00	25.70
4844.000	23.84	AV	H	11.31	35.15	54.00	18.85
4844.000	36.26	PK	V	11.31	47.57	74.00	26.43
4844.000	22.83	AV	V	11.31	34.14	54.00	19.86
Middle Channel: 2437				MHz			
4874.000	36.68	PK	H	11.45	48.13	74.00	25.87
4874.000	23.75	AV	H	11.45	35.20	54.00	18.80
4874.000	35.51	PK	V	11.45	46.96	74.00	27.04
4874.000	22.63	AV	V	11.45	34.08	54.00	19.92
High Channel: 2452				MHz			
2483.500	36.44	PK	H	32.19	68.63	74.00	5.37
2483.500	15.67	AV	H	32.19	47.86	54.00	6.14
2483.500	35.14	PK	V	32.19	67.33	74.00	6.67
2483.500	14.69	AV	V	32.19	46.88	54.00	7.12
4904.000	36.54	PK	H	11.58	48.12	74.00	25.88
4904.000	23.09	AV	H	11.58	34.67	54.00	19.33
4904.000	35.99	PK	V	11.58	47.57	74.00	26.43
4904.000	22.65	AV	V	11.58	34.23	54.00	19.77

Listed with the worst harmonic margin test plot (802.11b High channel)

Horizontal

Project No.: CR231062479-RF
Tester: Tao Zhu
Polarization: horizontal
Note: 802.11b Mode High Channel

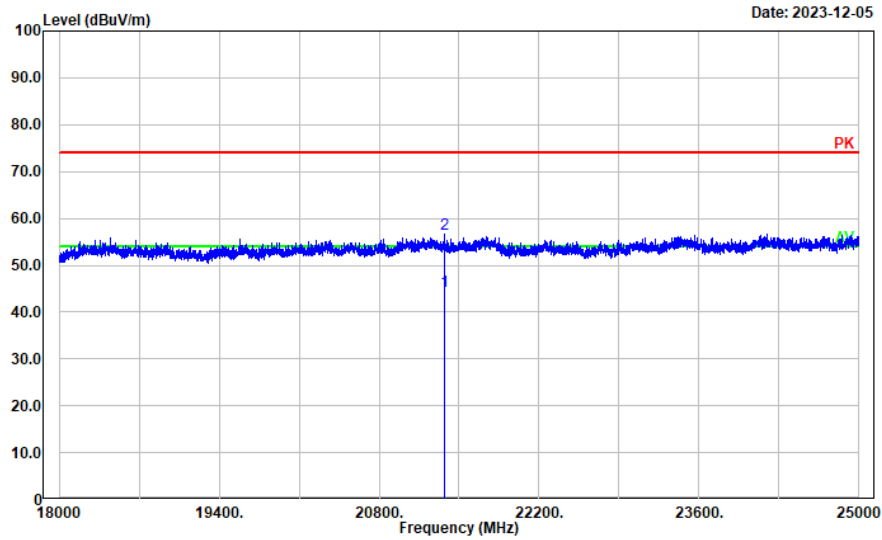


6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	15724.340	22.56	24.82	47.38	54.00	6.62	Average
2	15724.340	35.05	24.82	59.87	74.00	14.13	Peak

Horizontal

Project No.: CR231062479-RF
Tester: Tao Zhu
Polarization: Horizontal
Note: 802.11b Mode High Channel



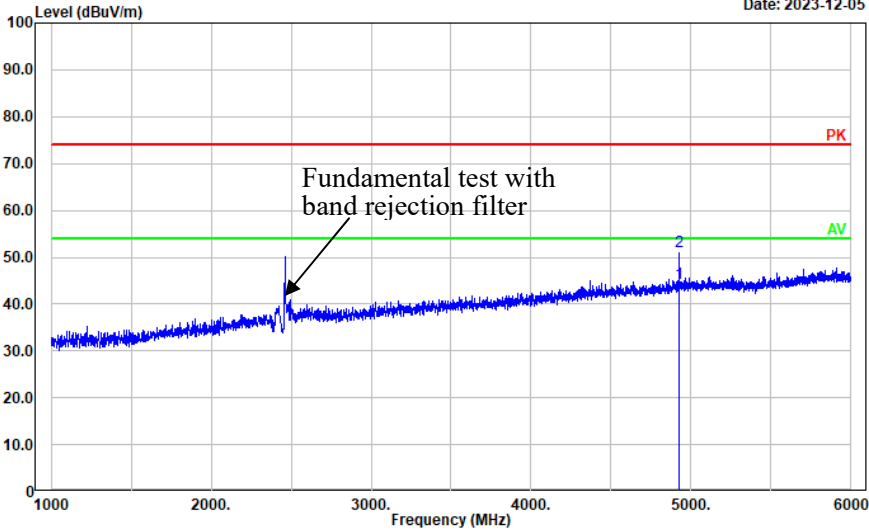
18-25GHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	21370.470	39.74	4.64	44.38	54.00	9.62	Average
2	21370.470	52.04	4.64	56.68	74.00	17.32	Peak

Vertical

Project No.: CR231062479-RF
Tester: Tao Zhu
Polarization: vertical
Note: 802.11b Mode High Channel

Date: 2023-12-05

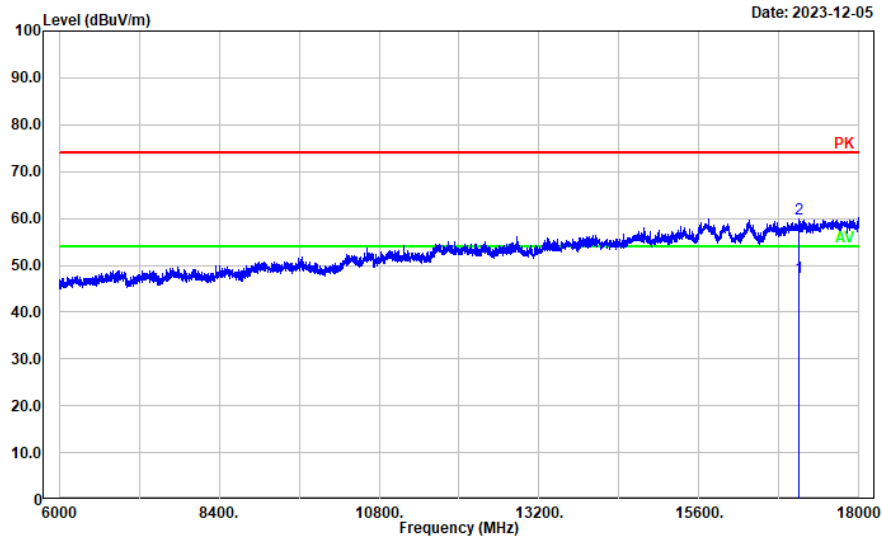


1-6GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4924.000	32.74	11.67	44.41	54.00	9.59	Average
2	4924.000	39.47	11.67	51.14	74.00	22.86	Peak

Vertical

Project No.: CR231062479-RF
Tester: Tao Zhu
Polarization: vertical
Note: 802.11b Mode High Channel

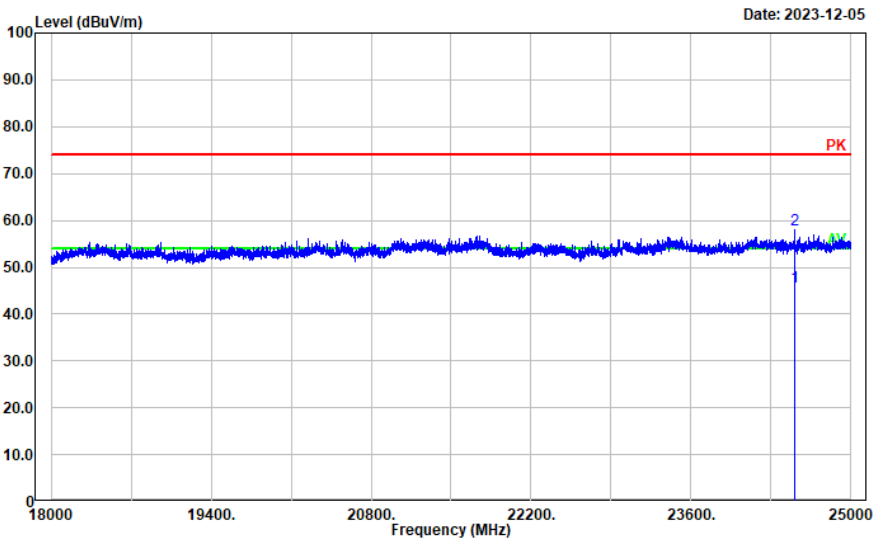


6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	17099.820	19.03	28.51	47.54	54.00	6.46	Average
2	17099.820	31.44	28.51	59.95	74.00	14.05	Peak

Vertical

Project No.: CR231062479-RF
Tester: Tao Zhu
Polarization: Vertical
Note: 802.11b Mode High Channel



18-25GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	24504.300	40.42	5.36	45.78	54.00	8.22	Average
2	24504.300	52.53	5.36	57.89	74.00	16.11	Peak

4.3 Minimum 6 dB Emission Bandwidth

Serial Number:	2CPG-1	Test Date:	2023/11/29~2023/11/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~26	Relative Humidity: (%)	50~52	ATM Pressure: (kPa)	101~101.2
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Test Equipment List and Details:

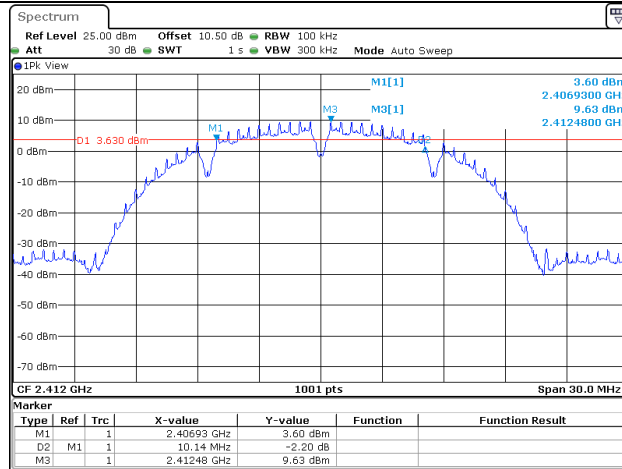
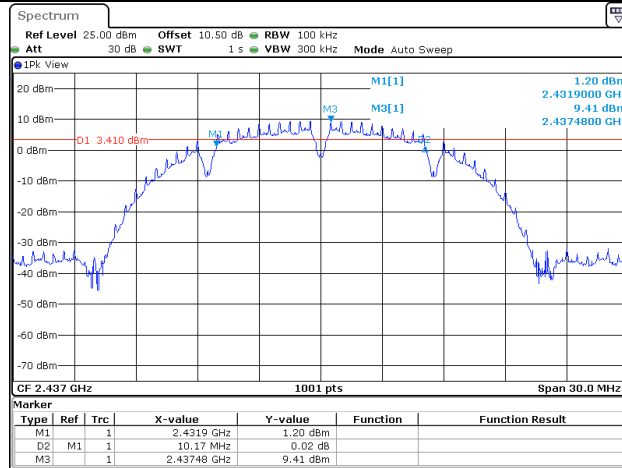
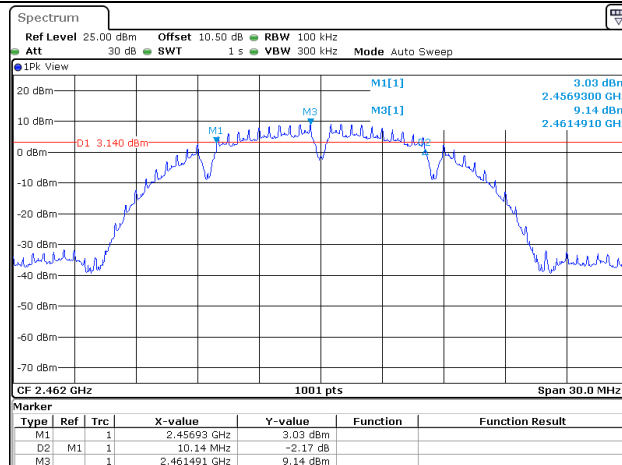
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

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

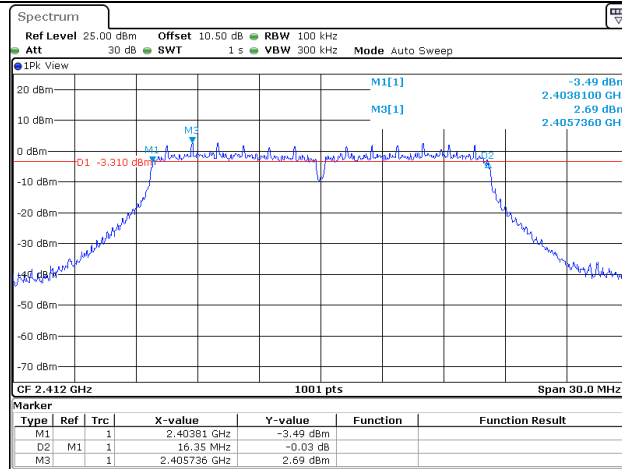
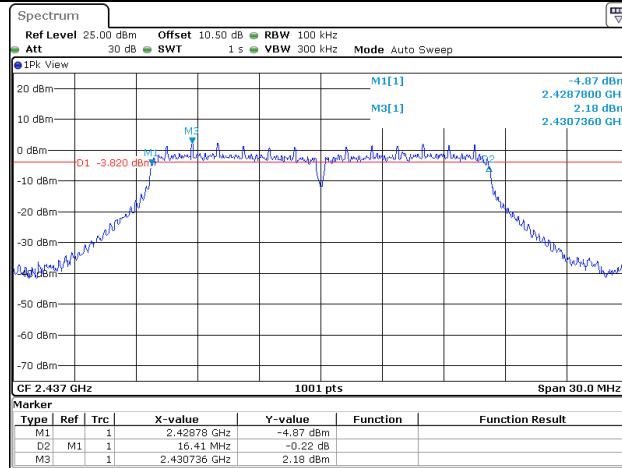
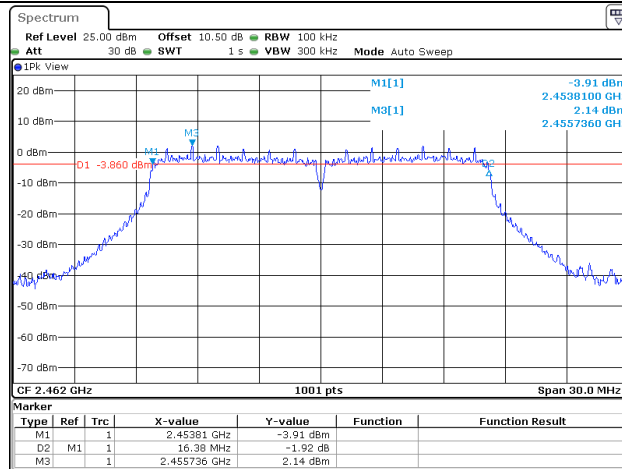
Test Data:

Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	2412	10.14	0.5
	2437	10.17	0.5
	2462	10.14	0.5
802.11g	2412	16.35	0.5
	2437	16.41	0.5
	2462	16.38	0.5
802.11n ht20	2412	17.1	0.5
	2437	17.1	0.5
	2462	16.98	0.5
802.11n ht40	2422	35.28	0.5
	2437	35.82	0.5
	2452	35.64	0.5

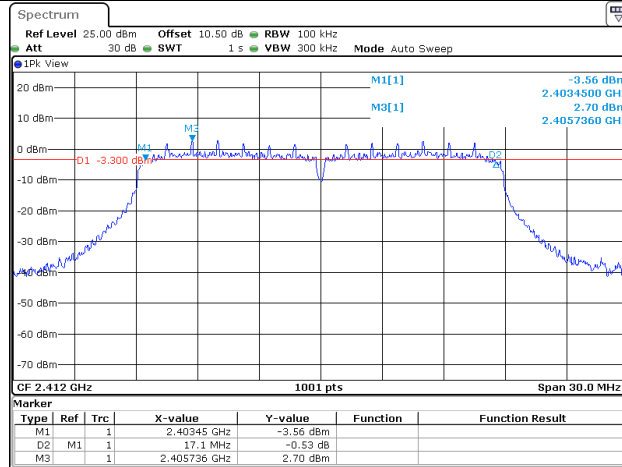
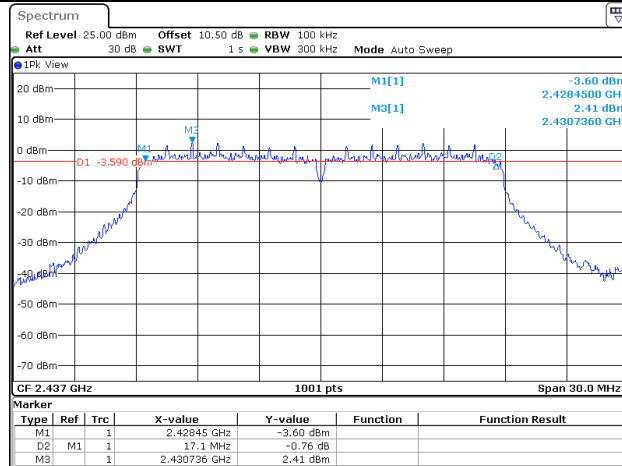
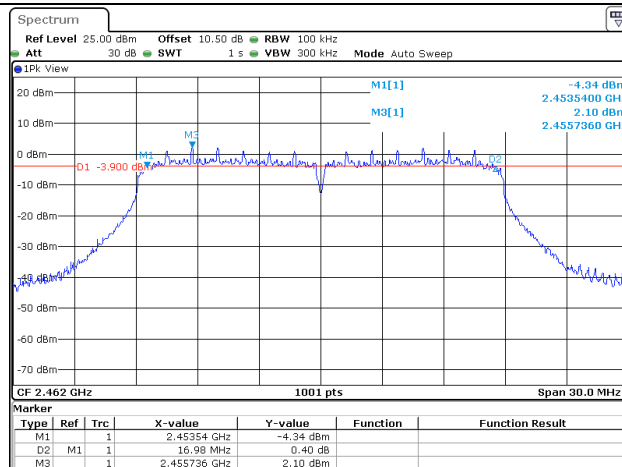
6dB Emission Bandwidth

802.11b
Lowest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 22:06:32802.11b
Middle ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 22:12:47802.11b
Highest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 22:17:44

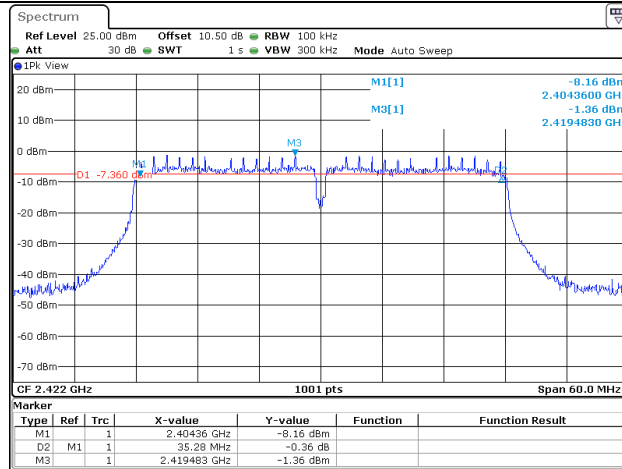
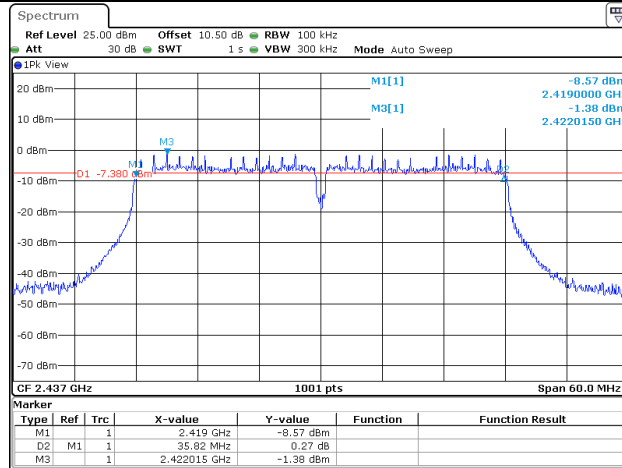
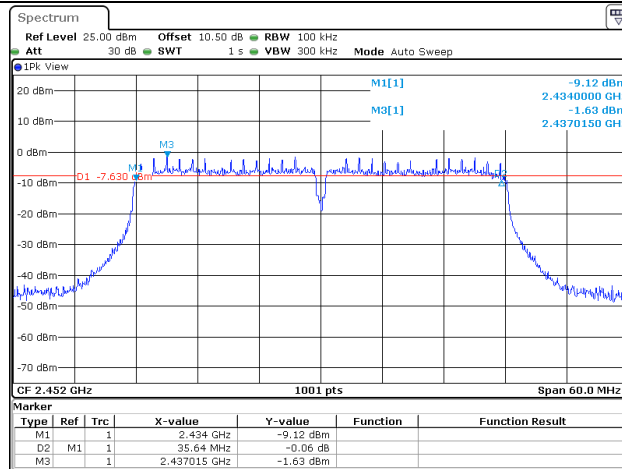
6dB Emission Bandwidth

802.11g
Lowest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 22:37:51802.11g
Middle ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:19:04802.11g
Highest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:35:43

6dB Emission Bandwidth

802.11n ht20
Lowest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:48:35802.11n ht20
Middle ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:52:44802.11n ht20
Highest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:57:08

6dB Emission Bandwidth

802.11n ht40
Lowest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:03:03802.11n ht40
Middle ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:07:21802.11n ht40
Highest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:10:55

4.4 99% Occupied Bandwidth

Serial Number:	2CPG-1	Test Date:	2023/11/29~2023/11/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	25.2~26	Relative Humidity: (%)	50~52	ATM Pressure: (kPa)	101~101.2
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Test Equipment List and Details:

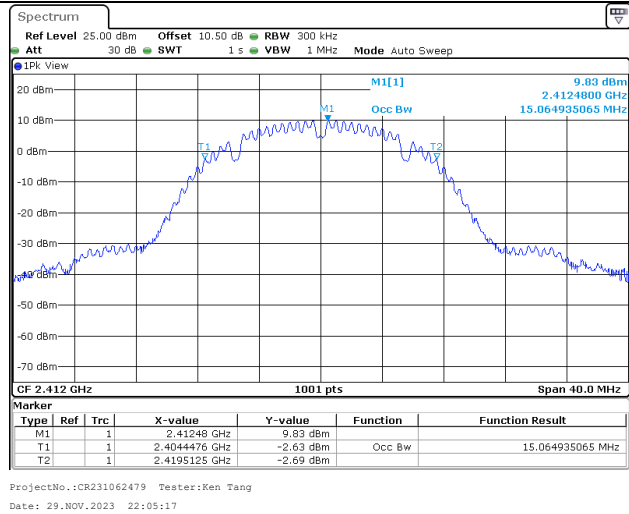
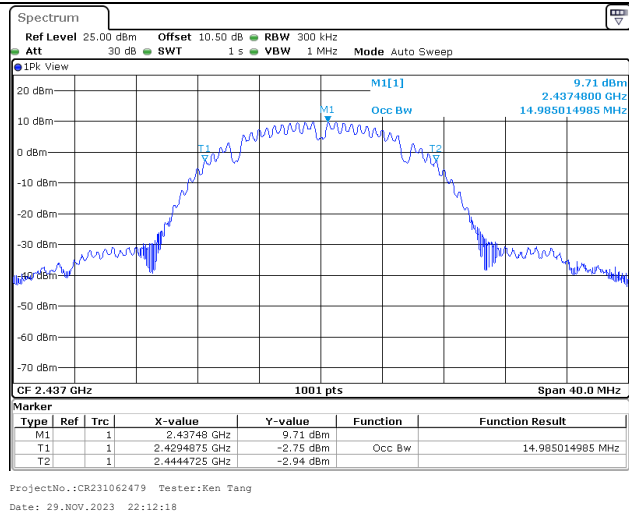
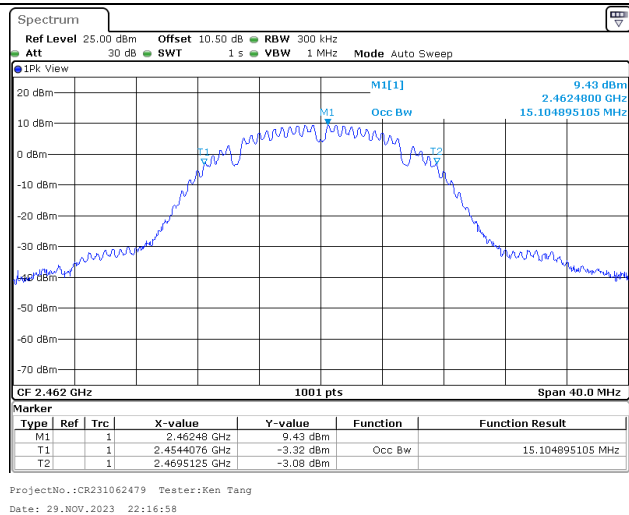
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

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

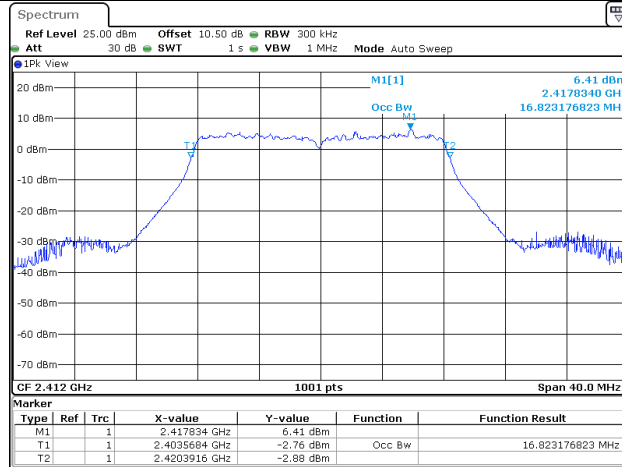
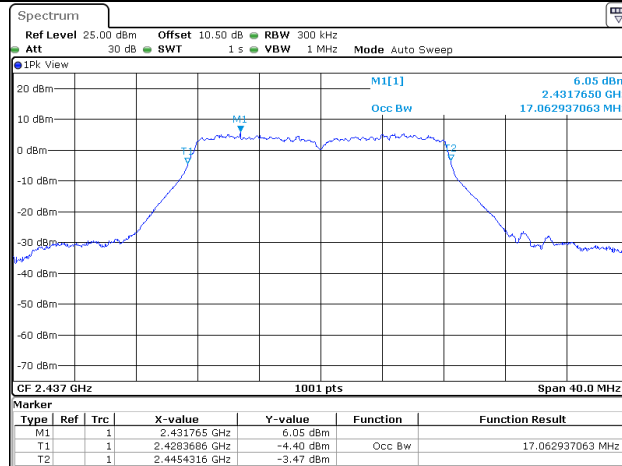
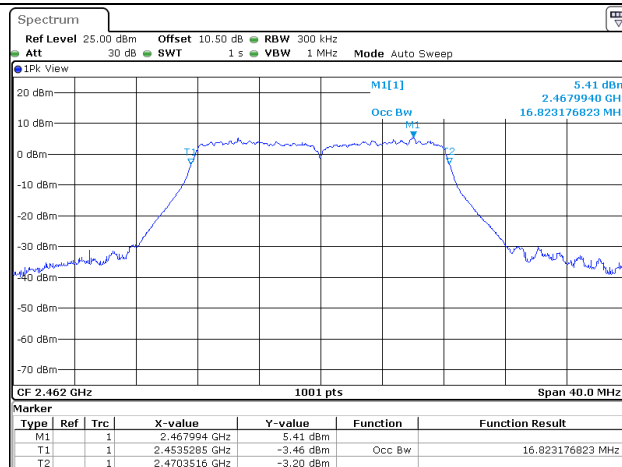
Test Data:

Test Modes	Test Channel	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)
802.11b	Lowest	2412	15.065
	Middle	2442	14.985
	Highest	2472	15.105
802.11g	Lowest	2412	16.823
	Middle	2442	17.063
	Highest	2472	16.823
802.11n ht20	Lowest	2412	17.862
	Middle	2442	17.942
	Highest	2472	17.822
802.11n ht40	Lowest	2422	36.204
	Middle	2442	36.284
	Highest	2462	36.204

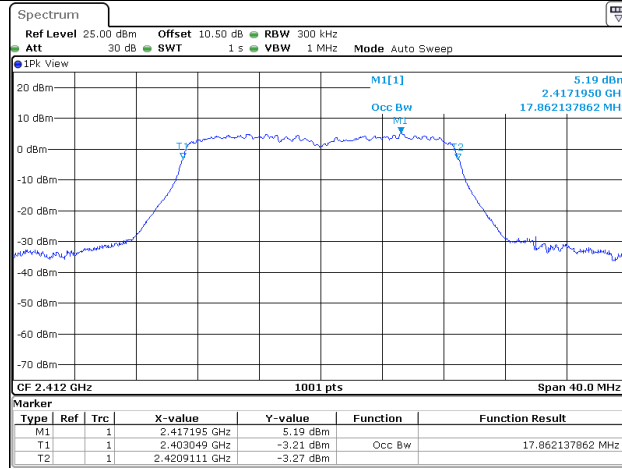
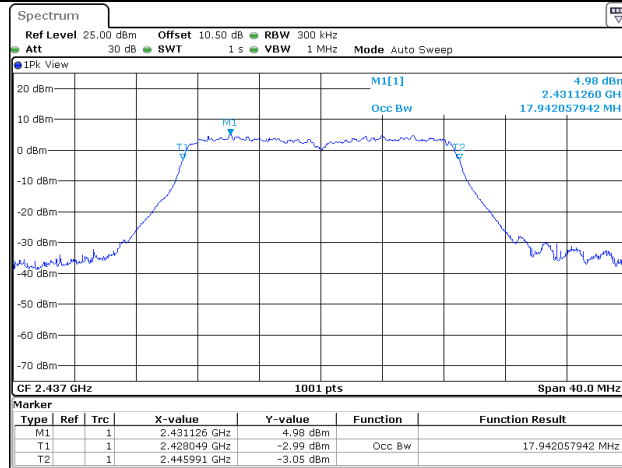
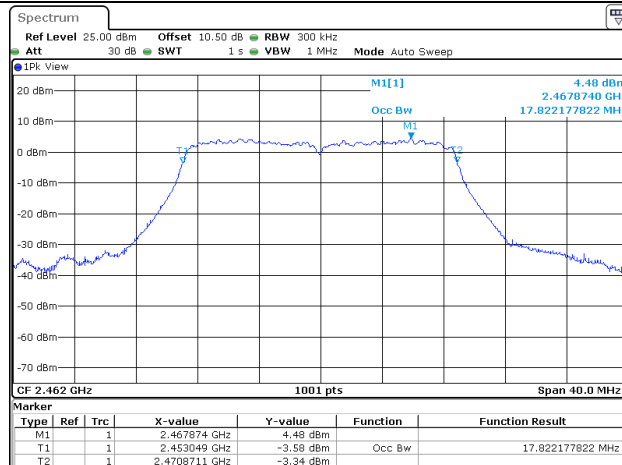
99% Occupied Bandwidth

802.11b
Lowest Channel802.11b
Middle Channel802.11b
Highest Channel

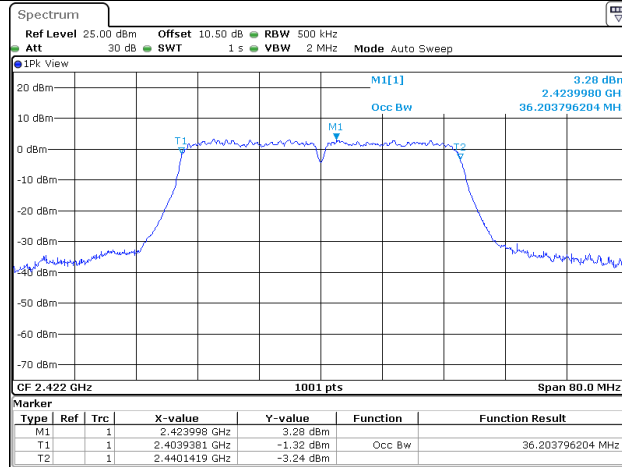
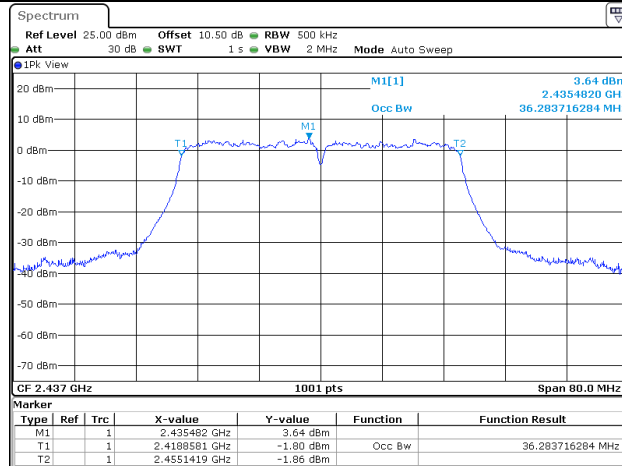
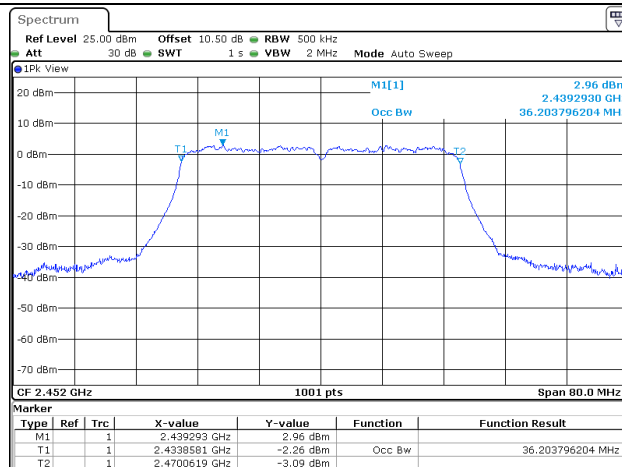
99% Occupied Bandwidth

802.11g
Lowest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 22:37:25802.11g
Middle ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:18:39802.11g
Highest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:35:16

99% Occupied Bandwidth

802.11n ht20
Lowest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:48:08802.11n ht20
Middle ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:52:17802.11n ht20
Highest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:56:39

99% Occupied Bandwidth

802.11n ht40
Lowest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:02:36802.11n ht40
Middle ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:06:42802.11n ht40
Highest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:10:27

4.5 Maximum Conducted Output Power

Serial Number:	2CPG-1	Test Date:	2023/11/29~2023/11/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~26	Relative Humidity: (%)	50~52	ATM Pressure: (kPa)	101~101.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A
Anritsu	Power Meter	ML2495A	1106009	2023/8/4	2024/8/3
Anritsu	Pulse Power Sensor	MA2411A	10780	2023/8/4	2024/8/3

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

Test Data:

Test Modes	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)
802.11b	2412	22.32	30
	2437	22.23	30
	2462	21.78	30
802.11g	2412	21.93	30
	2437	21.97	30
	2462	21.54	30
802.11n ht20	2412	21.91	30
	2437	21.62	30
	2462	21.31	30
802.11n ht40	2422	21.09	30
	2437	20.95	30
	2452	20.74	30

4.6 Maximum Power Spectral Density

Serial Number:	2CPG-1	Test Date:	2023/11/29~2023/11/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~26	Relative Humidity: (%)	50~52	ATM Pressure: (kPa)	101~101.2
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Test Equipment List and Details:

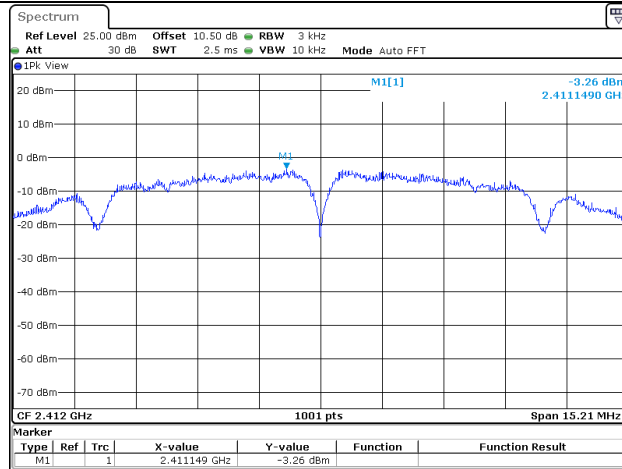
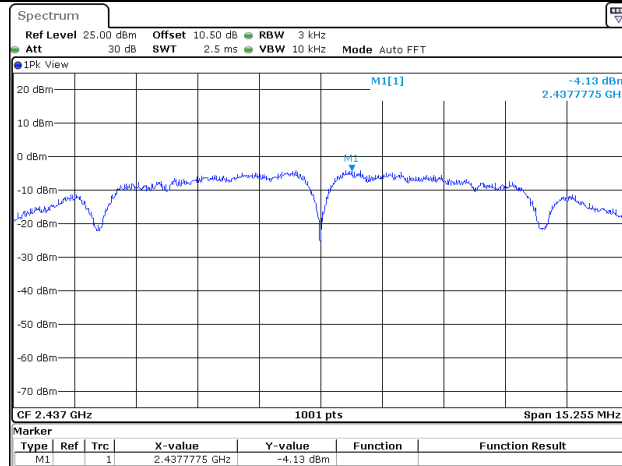
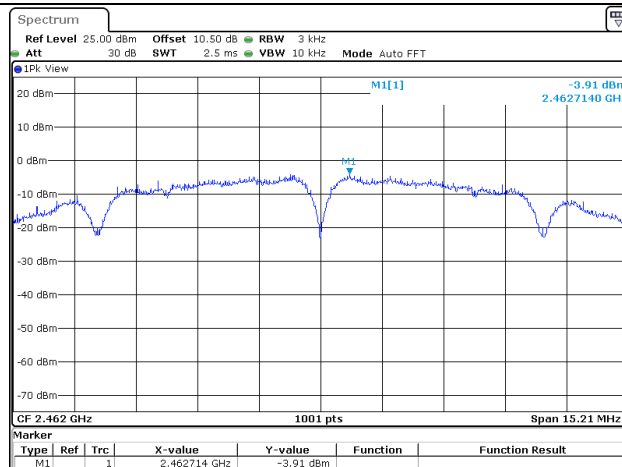
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

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

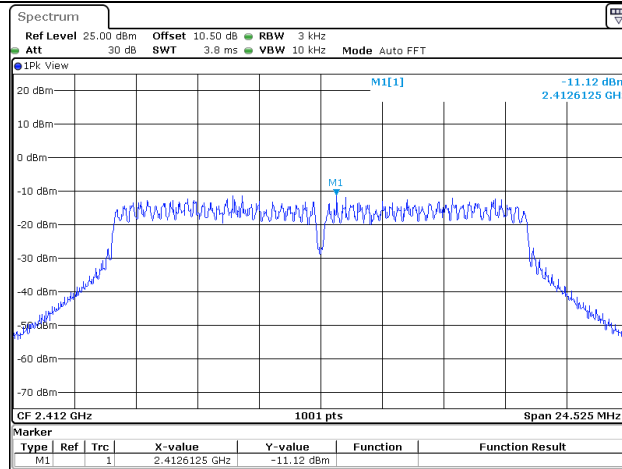
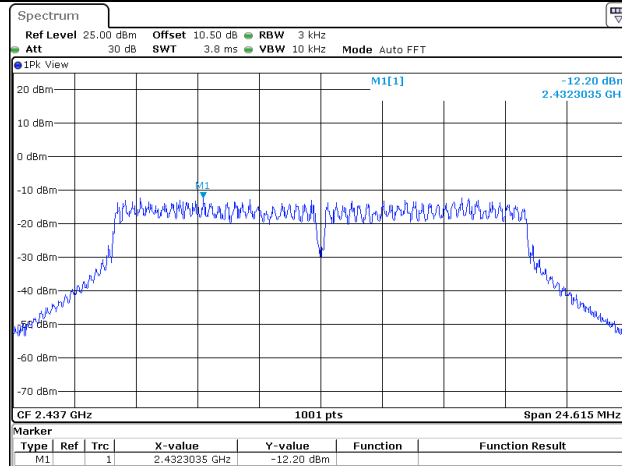
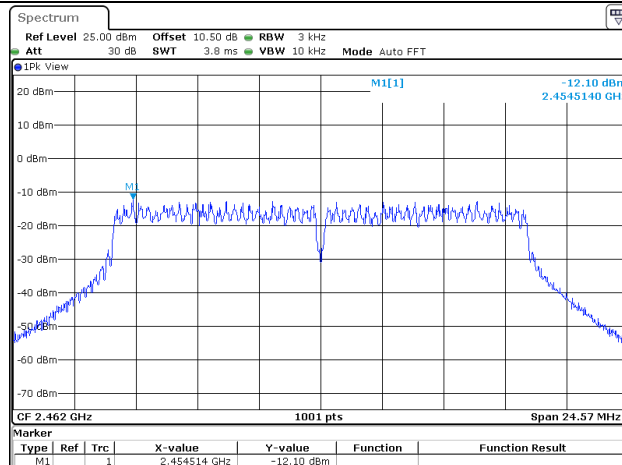
Test Data:

Test Channel	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-3.26	8.00
	2437	-4.13	8.00
	2462	-3.91	8.00
802.11g	2412	-11.12	8.00
	2437	-12.20	8.00
	2462	-12.10	8.00
802.11n ht20	2412	-10.77	8.00
	2437	-11.46	8.00
	2462	-11.99	8.00
802.11n ht40	2422	-15.08	8.00
	2437	-16.38	8.00
	2452	-16.64	8.00

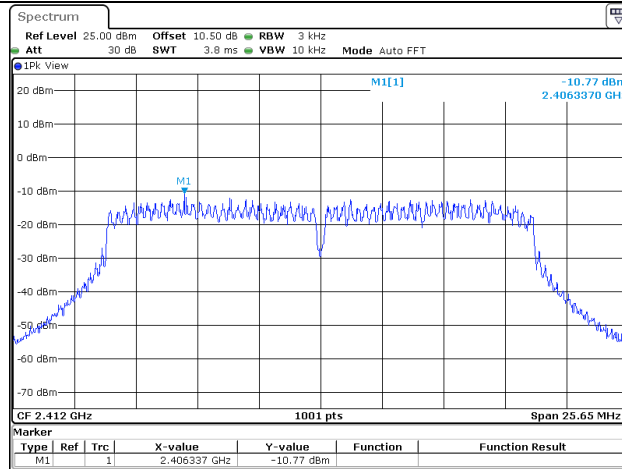
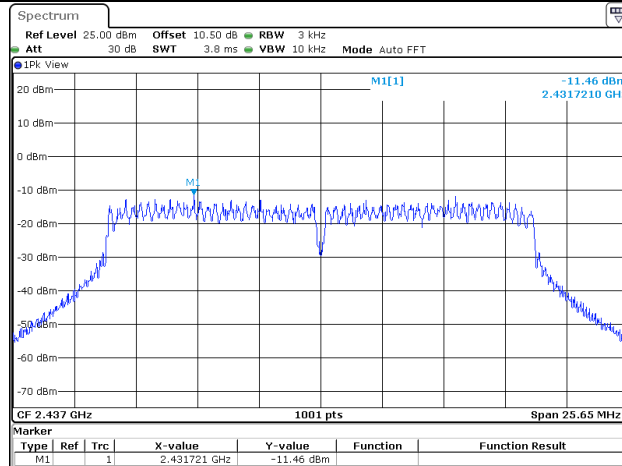
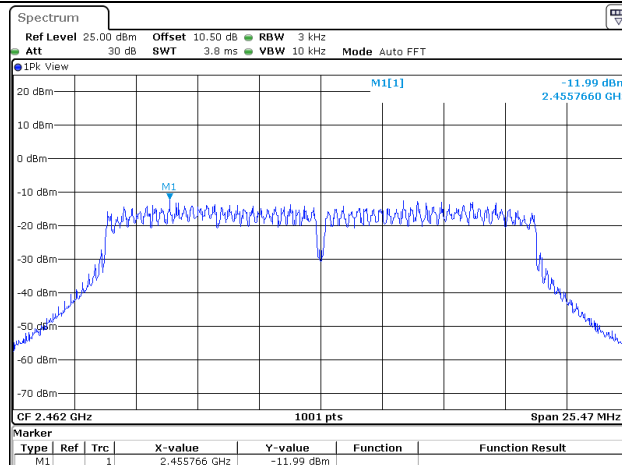
Maximum power spectral density

802.11b
Lowest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 22:06:56802.11b
Middle ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 22:13:11802.11b
Highest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 22:18:18

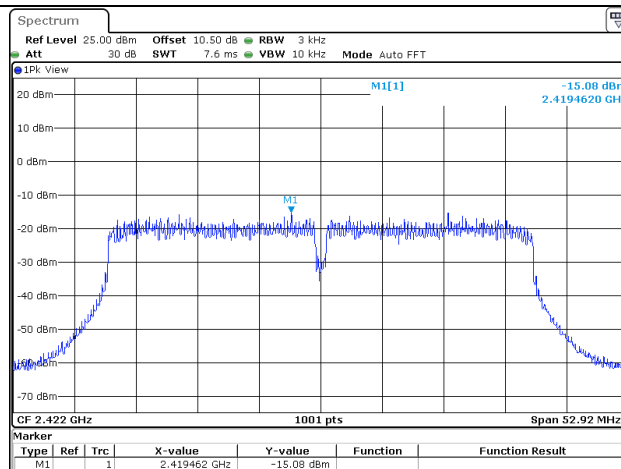
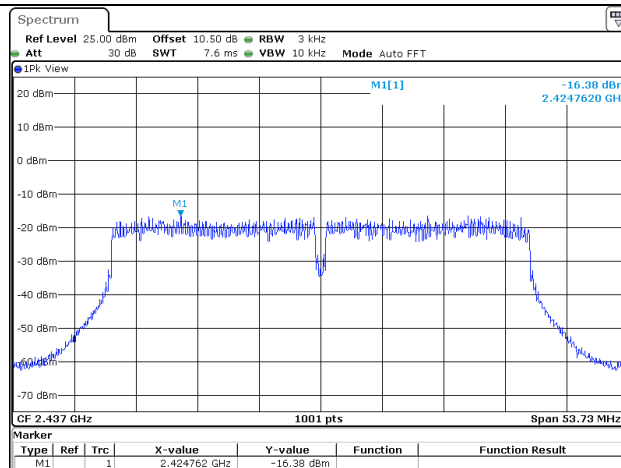
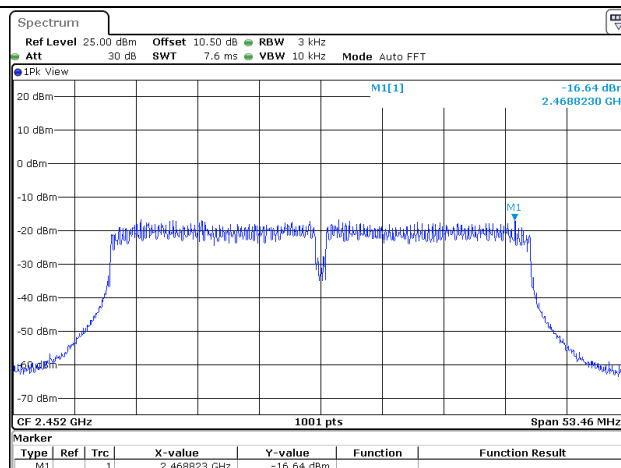
Maximum power spectral density

802.11g
Lowest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 22:38:16802.11g
Middle ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:19:28802.11g
Highest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:36:07

Maximum power spectral density

802.11n ht20
Lowest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:49:00802.11n ht20
Middle ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:53:09802.11n ht20
Highest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 23:57:31

Maximum power spectral density

802.11n ht40
Lowest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:03:27802.11n ht40
Middle ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:07:45802.11n ht40
Highest ChannelProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:11:21

4.7 100 kHz Bandwidth of Frequency Band Edge:

Serial Number:	2CPG-1	Test Date:	2023/11/29~2023/11/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~26	Relative Humidity: (%)	50~52	ATM Pressure: (kPa)	101~101.2
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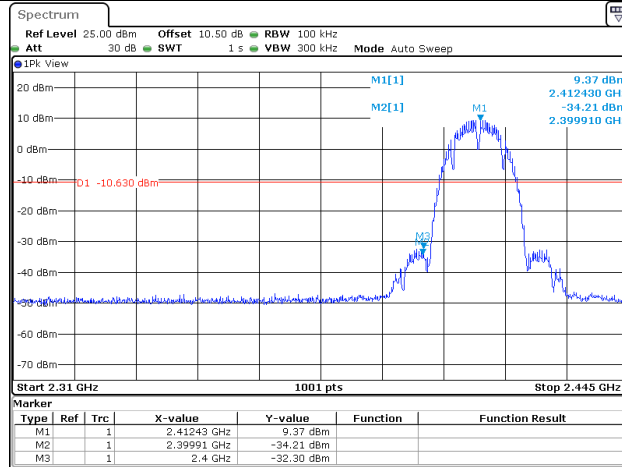
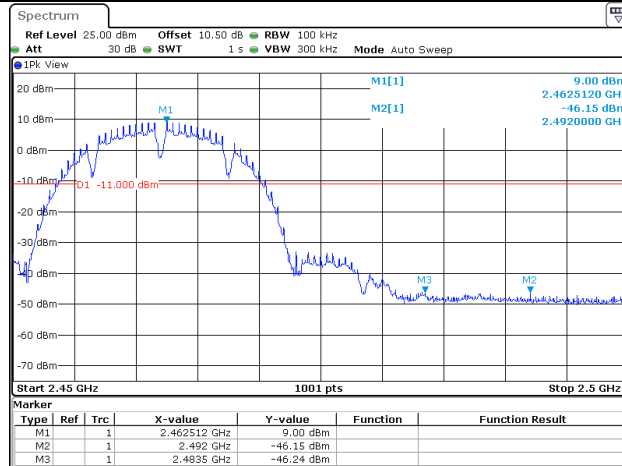
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

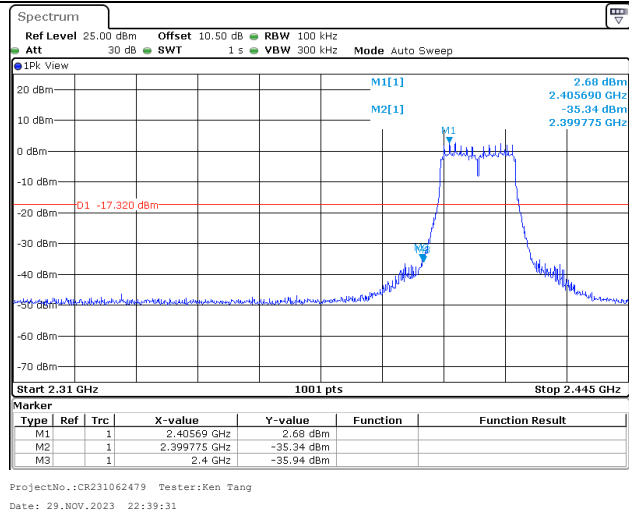
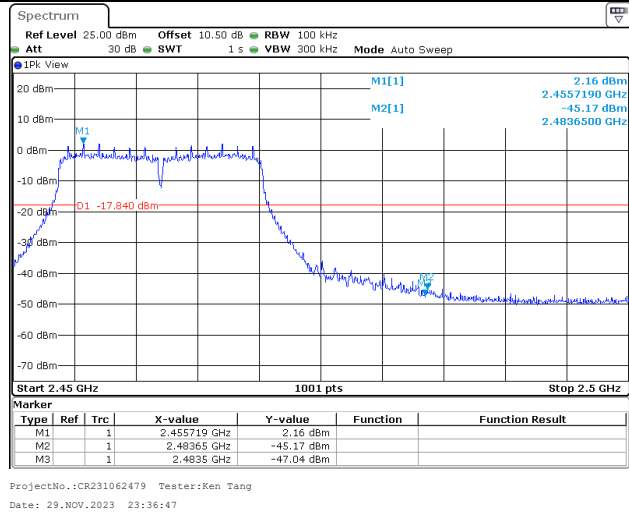
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

100 kHz Bandwidth of Frequency Band Edge

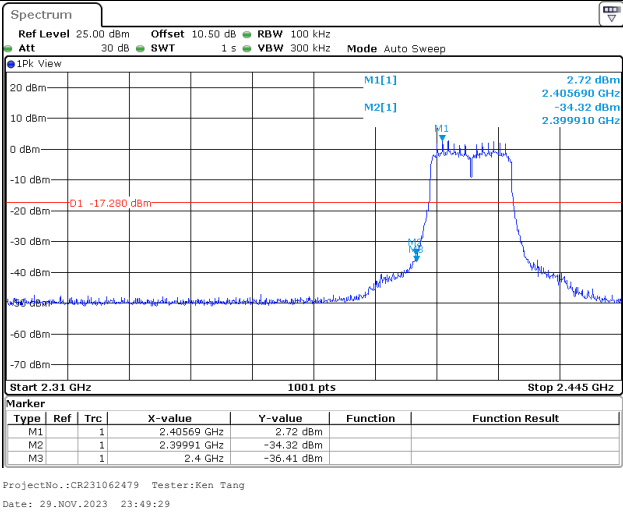
802.11b
Lowest Band edgeProjectNo.:CR231062479 Tester:Ken Tang
Date: 29.NOV.2023 22:07:36802.11b
Highest Band edgeProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:44:21

100 kHz Bandwidth of Frequency Band Edge

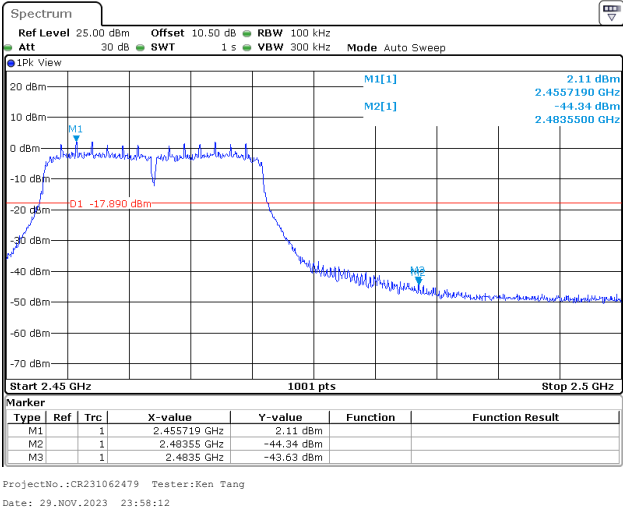
802.11g
Lowest Band edge802.11g
Highest Band edge

100 kHz Bandwidth of Frequency Band Edge

802.11n ht20
Lowest Band edge

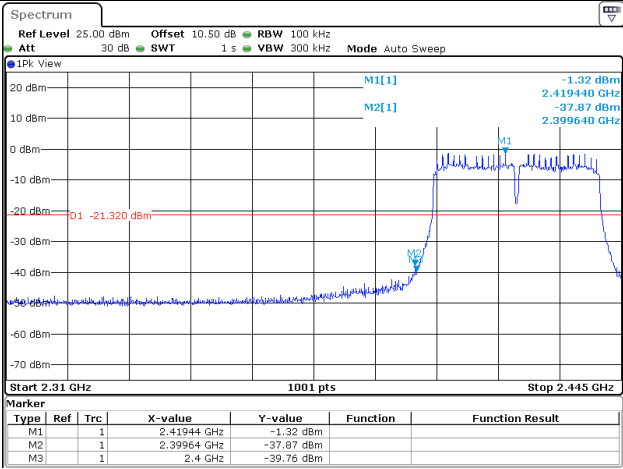


802.11n ht20
Highest Band edge



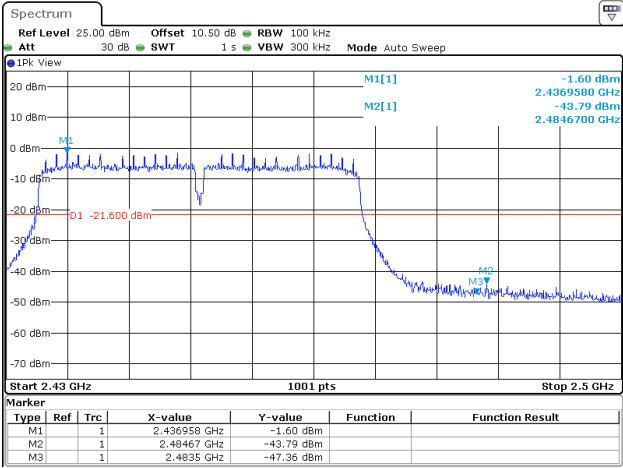
100 kHz Bandwidth of Frequency Band Edge

802.11n ht40
Lowest Band edge



ProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:03:54

802.11n ht40
Highest Band edge



ProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:11:48

4.8 Duty Cycle:

Serial Number:	2CPG-1	Test Date:	2023/11/29~2023/11/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	25.2~26	Relative Humidity: (%)	50~52	ATM Pressure: (kPa)	101~101.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

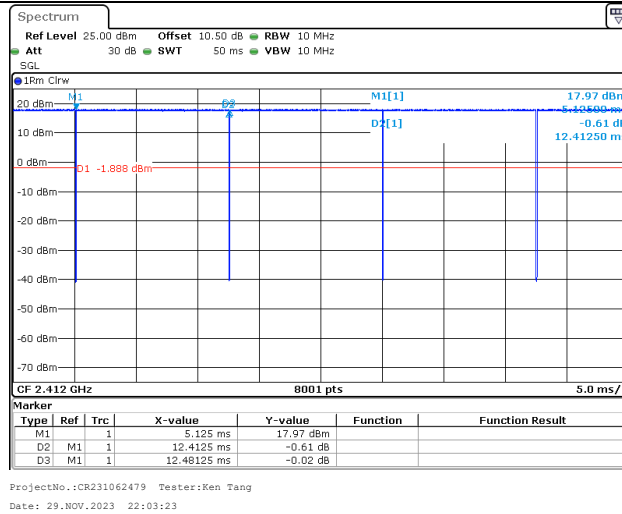
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

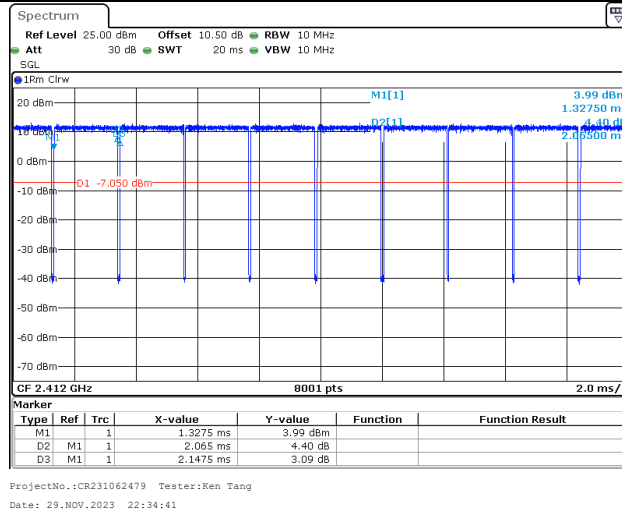
Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (Hz)
802.11b	12.413	12.481	99.46	/	10
802.11g	2.065	2.148	96.14	484	500
802.11n ht20	1.92125	2.00875	95.64	520	1000
802.11n ht40	0.944	0.989	95.45	1059	3000

Duty Cycle

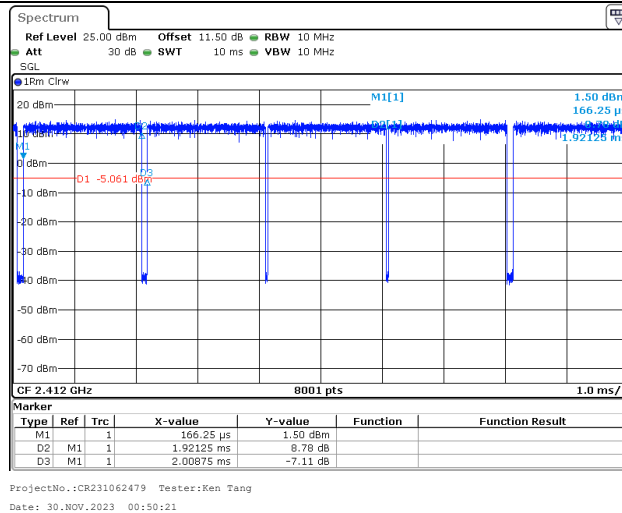
802.11b



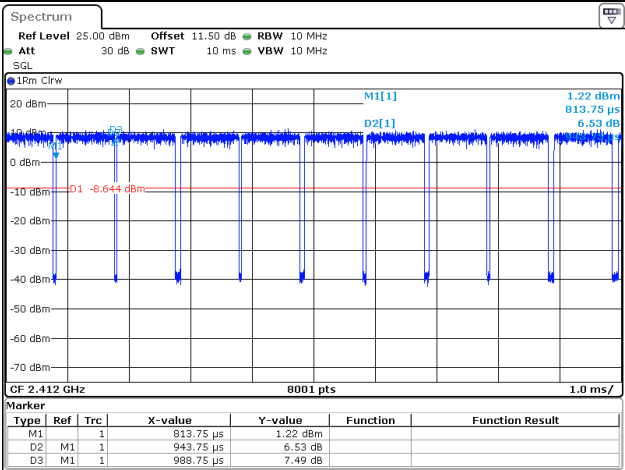
802.11g



802.11n ht20



802.11n ht40



ProjectNo.:CR231062479 Tester:Ken Tang
Date: 30.NOV.2023 00:51:03

5. EUT PHOTOGRAPHS

Please refer to the attachment CR231062479-EXP EUT EXTERNAL PHOTOGRAPHS and CR231062479-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231062479-00C-TSP TEST SETUP PHOTOGRAPHS.

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