NVLAP TESTING
NVLAP LAB CODE 600341-0

BACL Bay Area Compliance Labs Corp.

TEST REPORT

Applicant:	**Anker Innovations Limited**
Address:	**Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong**
Product Name:	**eufy FamiLock C30**
FCC ID:	**2AOKB-T85D0C**
IC:	**23451-T85D0C**
HVIN:	**T85D0C, T85D0S**
Standard(s):	**47 CFR Part 15, Subpart C(15.247)** **RSS-247 Issue 3, August 2023** **RSS-Gen, Issue 5, February 2021 Amendment 2** **ANSI C63.10-2020** **KDB 558074 D01 15.247 Meas Guidance v05r02**
Report Number:	**2502P42997E-RF-00B**
Report Date:	**2025/5/28**

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	2502P42997E-RF-00B	Original Report	2025/5/28

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	eufy FamiLock C30
EUT Model:	T85D0
Operation Frequency:	2412-2462MHz (802.11b/g/n ht20/ax he20)
Maximum Peak Output Power (Conducted):	24.01dBm
Modulation Type:	802.11b:DSSS-DBPSK, DQPSK, CCK 802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM 802.11ax: OFDMA-BPSK, QPSK, 16QAM, 64QAM,256QAM,1024QAM
Rated Input Voltage:	DC 6V from 1.5V*4 battery
Serial Number:	For RF Conducted test: 2XWO-7(HVIN: T85D0C) For Radiated Spurious Emissions Above 1G test: 2XWO-9(HVIN: T85D0C) For Radiated Spurious Emissions Below 1G test: 2XWO-1(HVIN: T85D0C)
EUT Received Date:	2025/1/22
EUT Received Status:	Good
Note: The model have two Configuration, Configuration 1# and Configuration 2#,they differ slightly in shape. Test was only performed with Configuration 2# since differ slightly in shape don't effect RF parameters.	

EUT Information:

EUT Configuration	HVIN
Configuration 1#	T85D0C
Configuration 2#	T85D0S

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	3.25dBi
The design of compliance with §15.203:				
☒ Unit uses a permanently attached antenna. ☐ Unit uses a unique coupling to the intentional radiator. ☐ 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) RSS-Gen Clause 8.8	AC Line Conducted Emissions	Not Applicable
§15.205, §15.209, §15.247(d) RSS-Gen Clause 8.10	Radiated Spurious Emissions	Compliant
§15.247 (a)(2) RSS-247 Clause 5.2 a)	Minimum 6 dB Bandwidth	Compliant
RSS-Gen Clause 6.7	99% Occupied Bandwidth	Compliant
§15.247(b)(3) RSS-247 Clause 5.4 d)	Maximum Conducted Output Power	Compliant
§15.247(d) RSS-247 Clause5.5	100 kHz Bandwidth Of Frequency Band Edge	Compliant
§15.247(e) RSS-247 Clause5.2 b)	Power Spectral Density	Compliant
FCC §15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant
FCC §1.1310&§2.1091&§15.247 (i)	Maximum Permissible Exposure (MPE)	Compliant
RSS-102 Clause 6.6	Exemption Limits For Routine Evaluation-RF Exposure Evaluation	Compliant
Note 1: Not Applicable, the device was powered by battery when operating. 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/ax he20:

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**	/	/

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:

EUT Exercise Software:	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	23	23	22
802.11g	6Mbps	16	16	16
802.11n ht20	MCS0	16	16	16
802.11n ax20	MCS0	16	16	16
Note: 1. 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. 2. For 802.11ax mode, the device not support partial RU mode.				

3.3 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

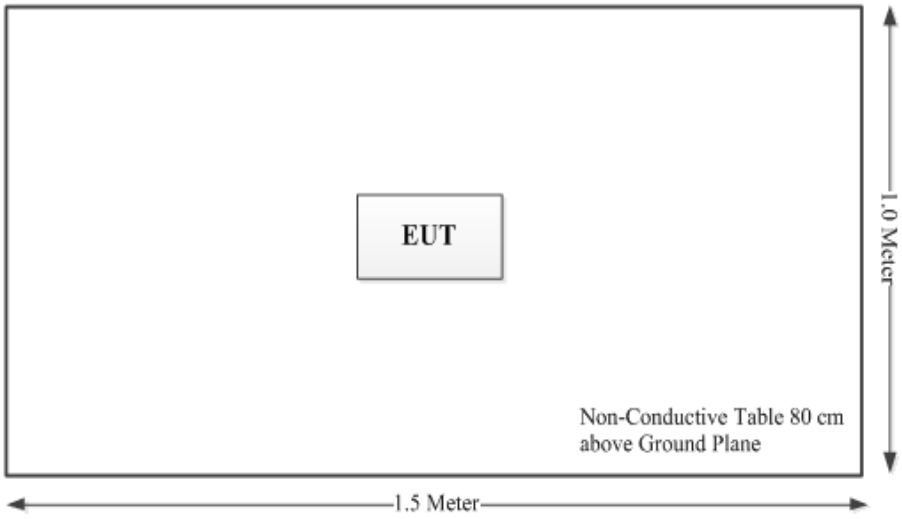
3.4 Support Cable List and Details

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

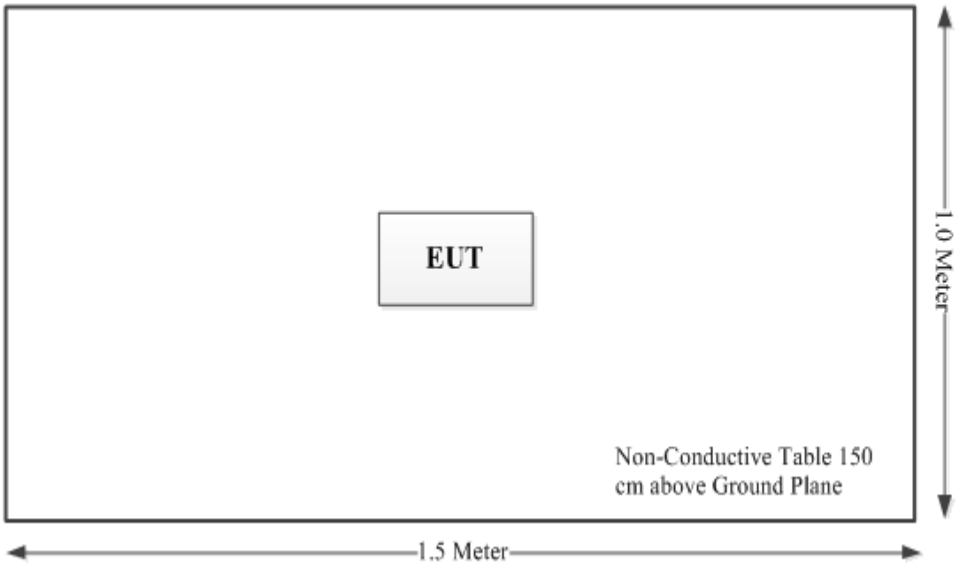
3.5 Block Diagram of Test Setup

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℃
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 µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

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

*Decreases with the logarithm of the frequency.

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

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

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

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

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

RSS-Gen Clause 8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 µH / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.
For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 4 – AC power-line conducted emissions limits

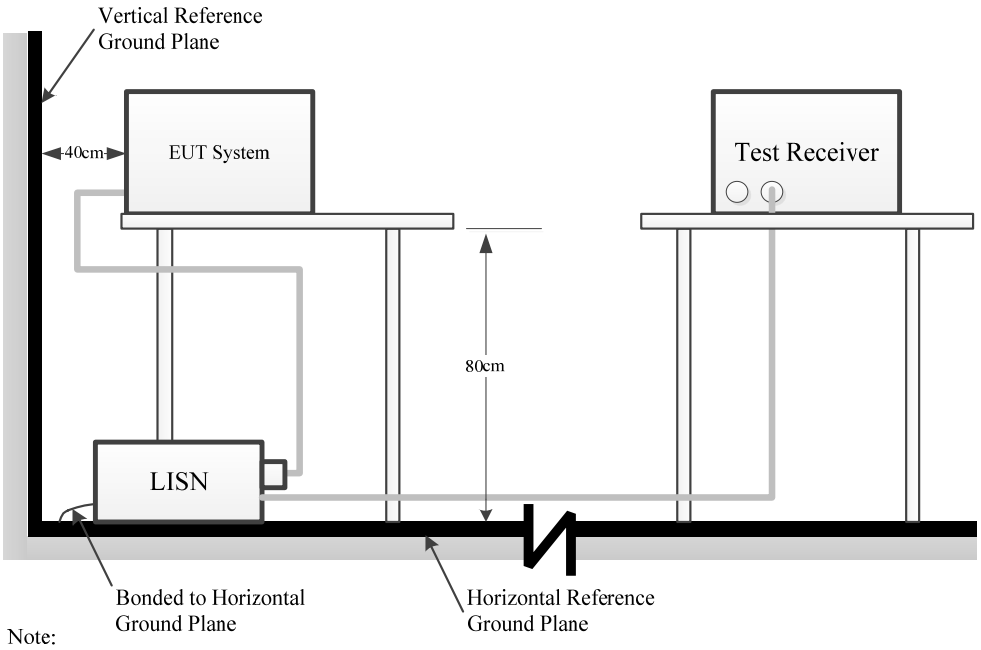
Frequency (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56[1]	56 to 46[1]
0.5 – 5	56	46
5 – 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:
(a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.

(b) Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

4.1.2 EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207, RSS-Gen 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.

4.1.3 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

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);

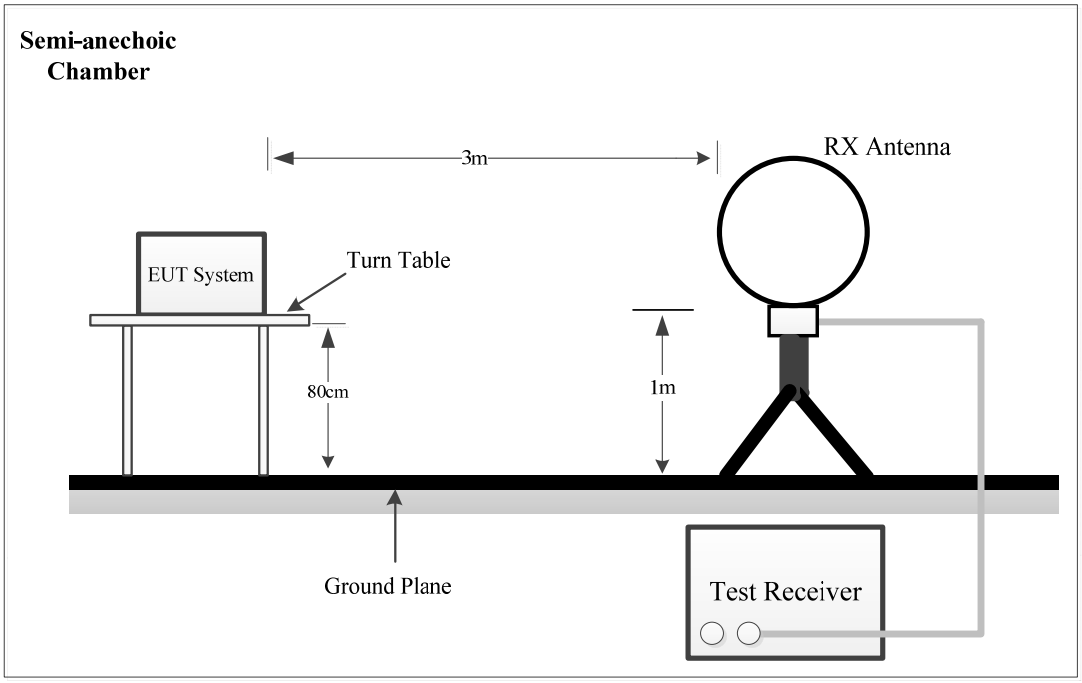
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

RSS-247 Clause 5.5

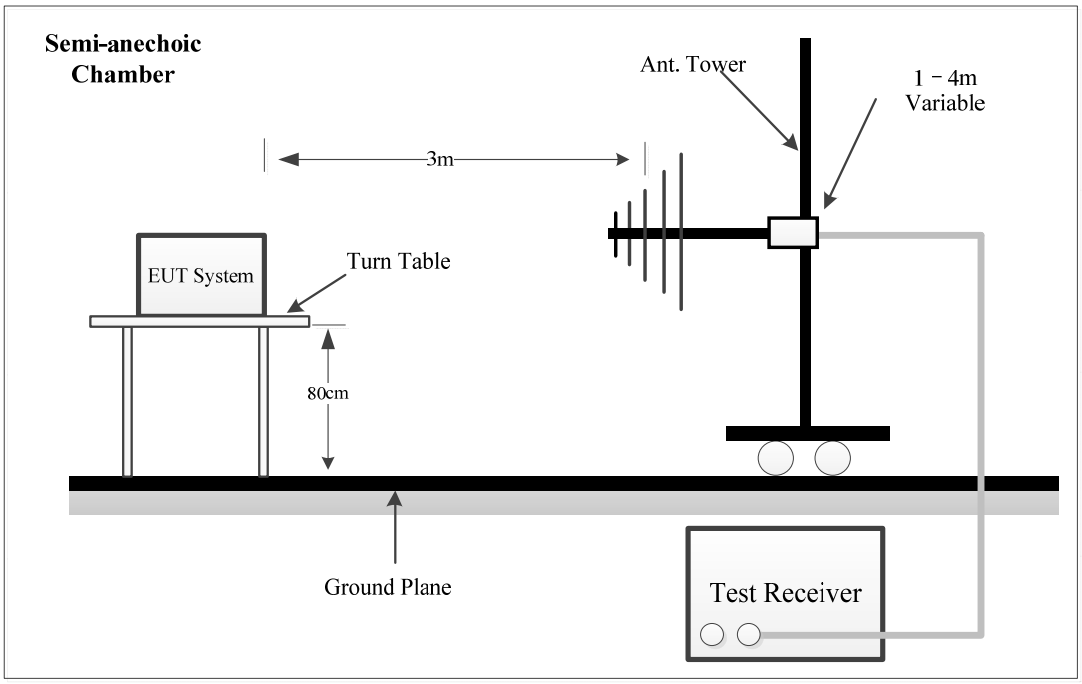
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required

4.2.2 EUT Setup

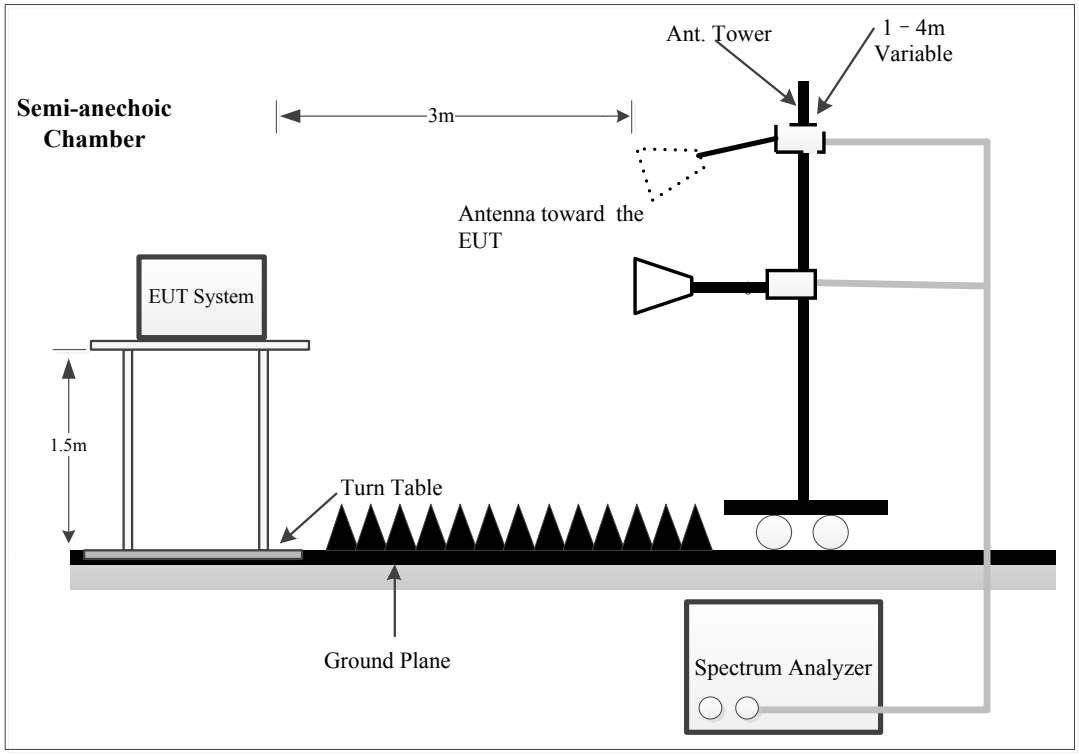
9kHz~30MHz:



30MHz~1GHz:



Above 1GHz:



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247,RSS-247,RSS-Gen limits.

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

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:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	5kHz	PK

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	≥1/T

Note: T is minimum transmission duration

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.

4.2.4 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.

All emissions under the average limit and under the noise floor have not recorded in the report.

4.2.5 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

For the spurious emission below 30MHz, the limit was convert from dBμA/m to dBμV/m by adding 51.5 dB.

4.2.6 Test Result

Please refer to section 5.2.

4.3 Minimum 6 dB Emission Bandwidth

4.3.1 Applicable Standard

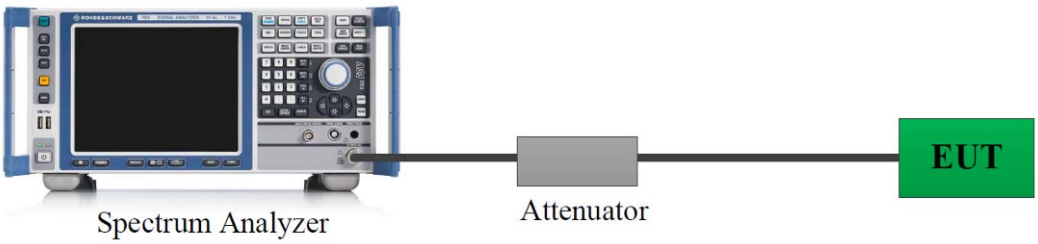
FCC §15.247 (a)(2)

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.

RSS-247 Clause 5.2 a

The minimum 6 dB bandwidth shall be 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 C63.10-2020 Section 11.8

a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
b) Set the VBW ≥ [3 × RBW].
c) Detector = peak.
d) Trace mode = max-hold.
e) Sweep = No faster than coupled (auto) time.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "−6 dB down amplitude". If a marker is below this "−6 dB down amplitude" value, then it shall be as close as possible to this value.

4.3.4 Test Result

Please refer to section 5.3.

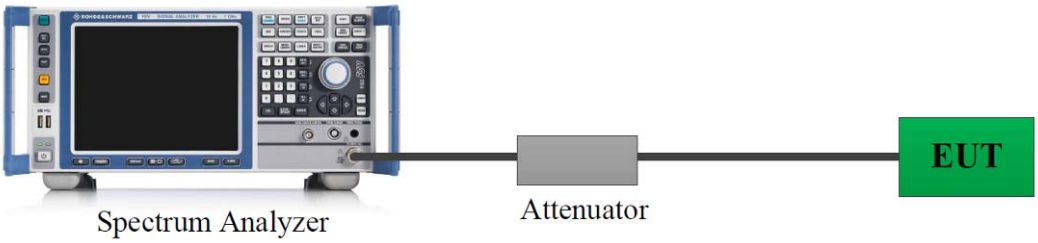
4.4 99% Occupied Bandwidth

4.4.1 Applicable Standard

RSS-Gen Clause 6.7

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.
In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.
The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:
The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value.
Video averaging is not permitted.
Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.
For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level 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, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

4.4.2 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.

4.4.3 Test Procedure

According to ANSI C63.10-2020 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 4.1.6.2.
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).

4.4.4 Test Result

Please refer to section 5.4.

4.5 Maximum Conducted Output Power

4.5.1 Applicable Standard

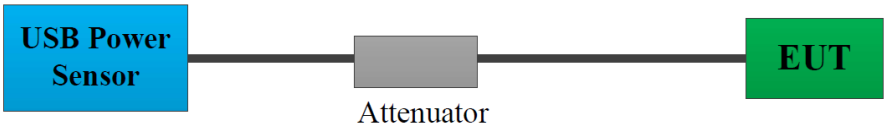
FCC §15.247 (b)(3)

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.

RSS-247 Clause 5.4 d

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

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 C63.10-2020 Section 11.9.1.2

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

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

According to ANSI C63.10-2020 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

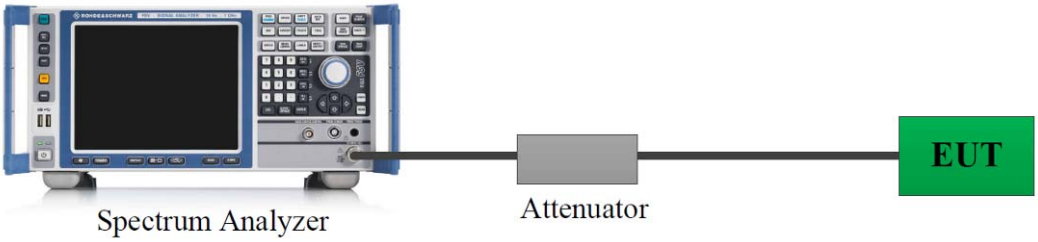
FCC §15.247 (e)

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.

RSS-247 Clause5.2 b

The transmitter power spectral density conducted from the transmitter 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 section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

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 C63.10-2020 Section 11.10.2

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

a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span >1.5 times the DTS bandwidth.
c) Set RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
d) Set VBW ≥ [3× RBW].
e) Detector = peak.
f) Sweep time = No faster than coupled (auto) time.
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.

4.6.4 Test Result

Please refer to section 5.6.

4.7 100 kHz Bandwidth of Frequency Band Edge

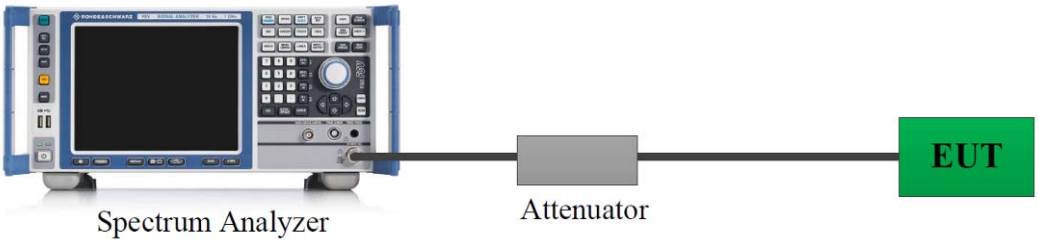
4.7.1 Applicable Standard

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)).

RSS-247 Clause 5.5
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required

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

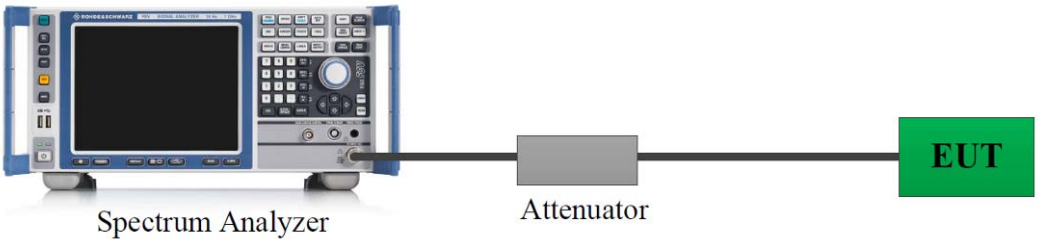
According to ANSI C63.10-2020 Section 11.11.3
a) Set the center frequency and span to encompass frequency range to be measured.
b) Set the RBW = 100 kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Sweep time = No faster than coupled (auto) time.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use the peak marker function to determine the maximum amplitude level.
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

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 C63.10-2020 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
1) Set the center frequency of the instrument to the center frequency of the transmission.
2) Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ RBW. Set detector = peak or average.
4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if T ≤ 16.7 µs.)

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.

RSS-Gen Clause 6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).
When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.
The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.
For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:
This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

4.9.2 Judgment

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

5. Test DATA AND RESULTS

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:	2XWO-1	Test Date:	2025/2/12
Test Site:	Chamber10m	Test Mode:	Transmitting
Tester:	Leesin Xiang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	21.1	Relative Humidity: (%)	43	ATM Pressure: (kPa)	101.1

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.

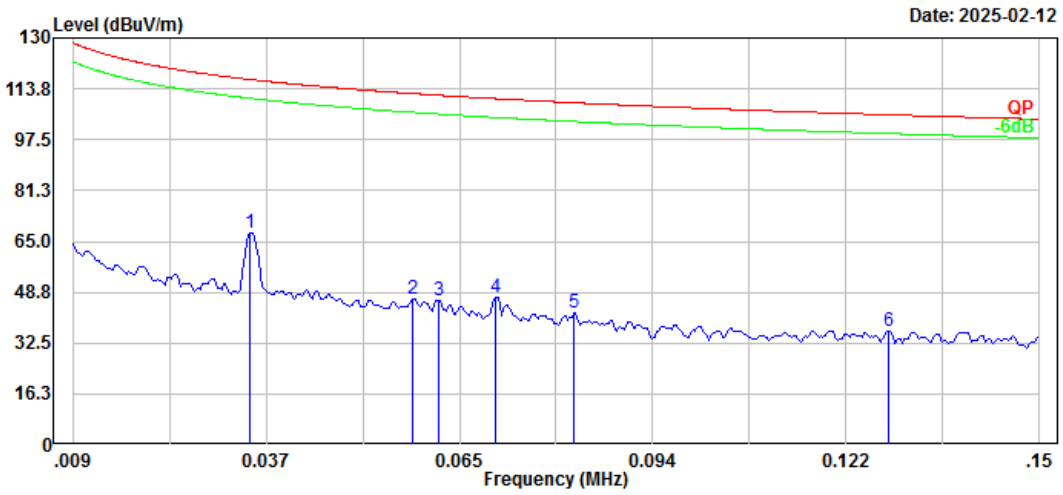
Note: 802.11b mode Low Channel was tested.

9kHz~30MHz

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

Project No.: 2502P42997E-RF
Polarization: Parallel
Test Mode: Transmitting
RBW:300Hz VBW:1kHz

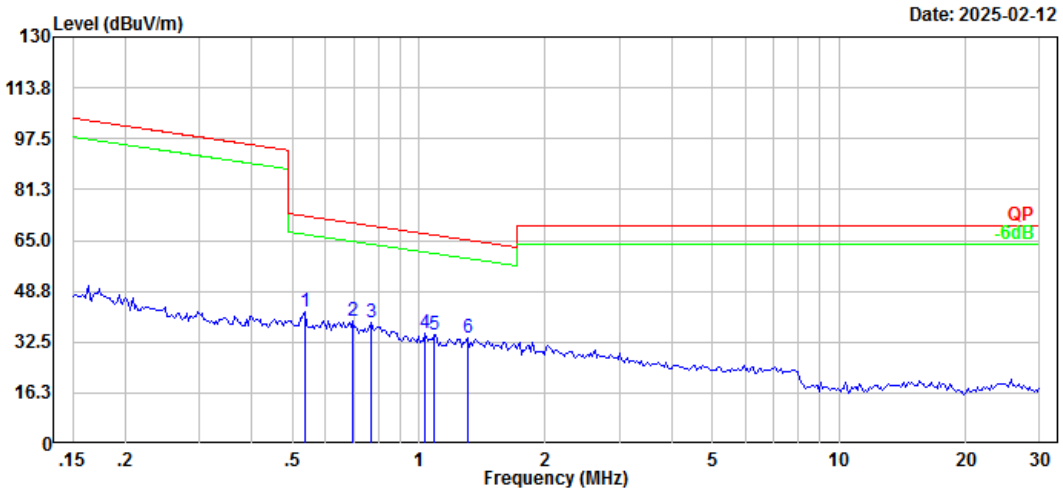
Serial No.: 2XWO-1
Tester: Leesin Xiang



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.035	21.18	46.67	67.85	116.74	48.89	Peak
2	0.059	4.28	42.57	46.85	112.24	65.39	Peak
3	0.062	4.40	41.94	46.34	111.71	65.37	Peak
4	0.071	6.75	40.46	47.21	110.61	63.40	Peak
5	0.082	3.64	38.56	42.20	109.32	67.12	Peak
6	0.128	2.43	33.85	36.28	105.46	69.18	Peak

Project No.: 2502P42997E-RF
Polarization: Parallel
Test Mode: Transmitting
RBW:10kHz VBW:30kHz

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

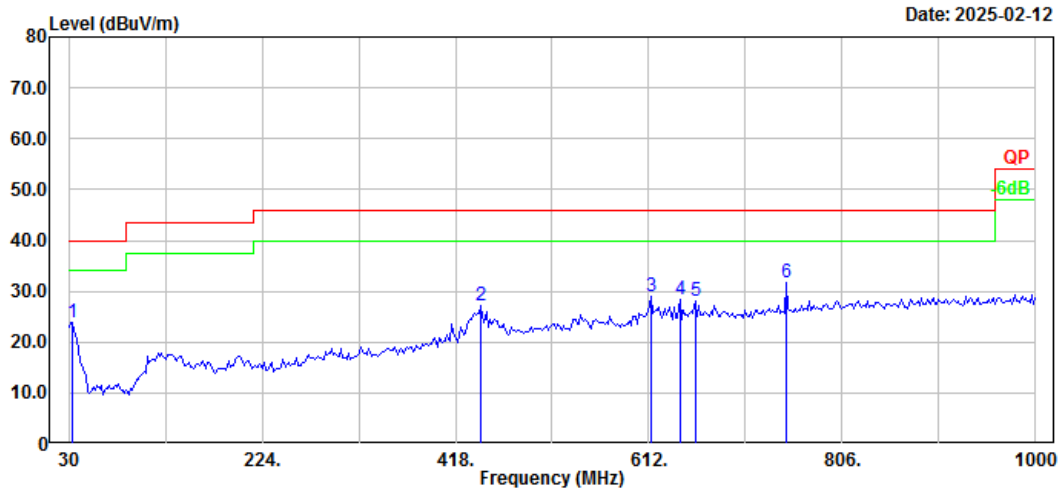


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.535	19.13	23.16	42.29	73.02	30.73	Peak
2	0.697	17.52	21.49	39.01	70.67	31.66	Peak
3	0.767	18.12	20.86	38.98	69.83	30.85	Peak
4	1.032	18.86	16.42	35.28	67.19	31.91	Peak
5	1.088	18.81	16.17	34.98	66.72	31.74	Peak
6	1.303	18.43	15.22	33.65	65.13	31.48	Peak

30MHz-1GHz

Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
RBW:100kHz VBW:300kHz

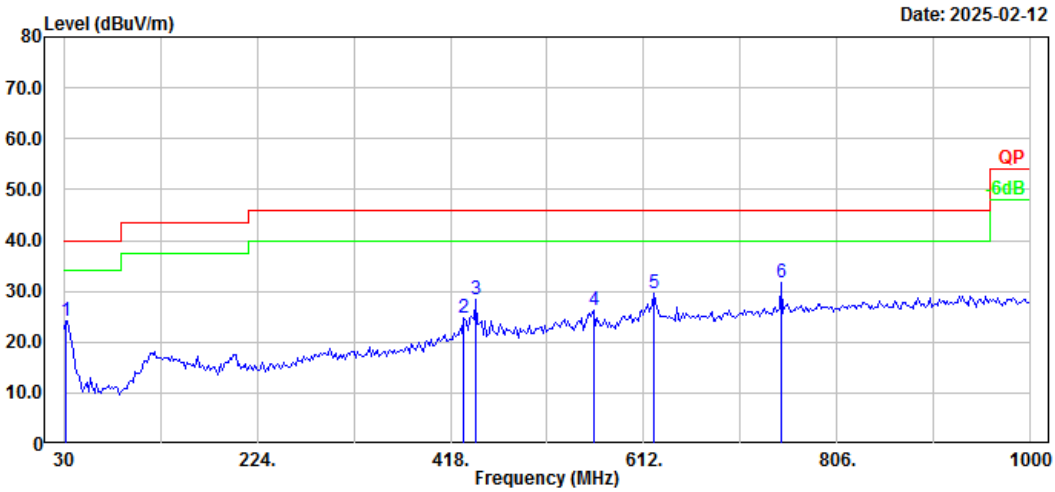
Serial No.: 2XWO-1
Tester: Leesin Xiang



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	33.880	30.53	-6.62	23.91	40.00	16.09	Peak
2	443.220	32.94	-5.70	27.24	46.00	18.76	Peak
3	613.940	31.60	-2.63	28.97	46.00	17.03	Peak
4	643.040	30.26	-2.01	28.25	46.00	17.75	Peak
5	658.560	29.85	-1.78	28.07	46.00	17.93	Peak
6	749.740	31.96	-0.31	31.65	46.00	14.35	Peak

Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
RBW:100kHz VBW:300kHz

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



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.940	29.43	-5.21	24.22	40.00	15.78	Peak
2	431.580	30.97	-6.10	24.87	46.00	21.13	Peak
3	443.220	34.07	-5.70	28.37	46.00	17.63	Peak
4	561.560	29.56	-3.32	26.24	46.00	19.76	Peak
5	621.700	32.10	-2.47	29.63	46.00	16.37	Peak
6	749.740	32.05	-0.31	31.74	46.00	14.26	Peak

2) 1-25GHz:

Serial Number:	2XWO-9	Test Date:	2025/2/17
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Leo Xiao	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	22.5	Relative Humidity: (%)	55	ATM Pressure: (kPa)	101.5

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
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8
AH	Preamplifier	PAM-0118P	469	2024/4/15	2025/4/14
AH	Preamplifier	PAM-1840VH	191	2024/9/5	2025/9/4
R&S	Spectrum Analyzer	FSV40	101589	2024/9/5	2025/9/4
Audix	Test Software	E3	191218 V9	N/A	N/A
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).*

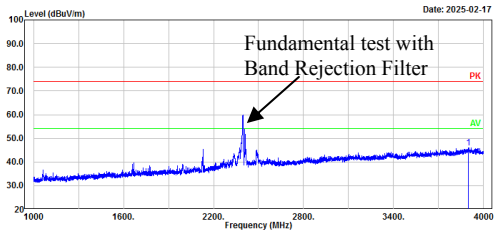
Test Data:

Please refer to the below table and plots.

1-18GHz:

802.11b mode, Low Channel, Horizontal

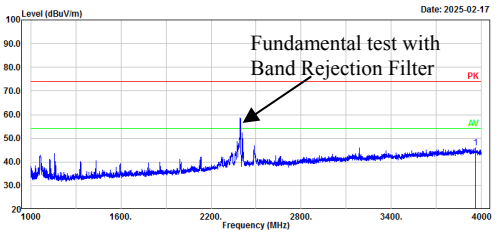
Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11b low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3899.80	49.67	-3.61	46.06	74.00	27.94	Peak

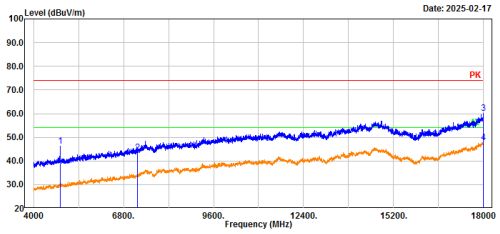
802.11b mode, Low Channel, Vertical

Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11b low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz
Serial No.: 2XWO-9
Tester: Leo Xiao



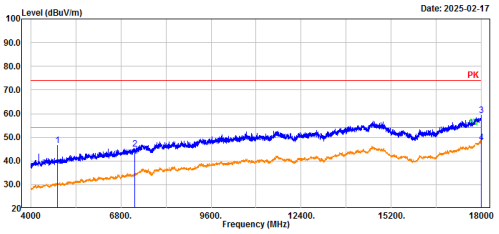
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3959.20	49.79	-3.69	46.10	74.00	27.90	Peak

Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11b low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4824.00	54.97	-8.58	46.39	74.00	27.61	Peak
2	7236.00	47.25	-3.67	43.58	74.00	30.42	Peak
3	17991.60	48.74	11.35	60.09	74.00	13.91	Peak
4	17991.60	36.28	11.35	47.63	54.00	6.37	Average

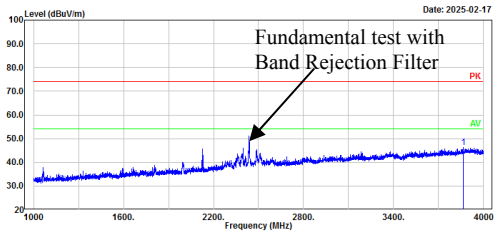
Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11b low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4824.00	55.25	-8.58	46.67	74.00	27.33	Peak
2	7236.00	48.64	-3.67	44.97	74.00	29.03	Peak
3	17986.00	48.05	11.32	59.37	74.00	14.63	Peak
4	17986.00	36.43	11.32	47.75	54.00	6.25	Average

802.11b mode, Middle Channel, Horizontal

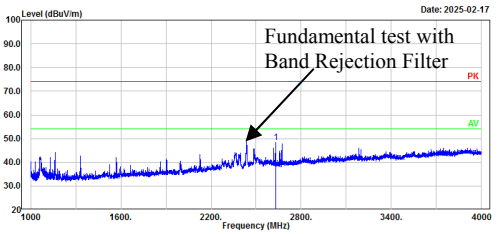
Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11b middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3864.40	50.10	-3.97	46.13	74.00	27.87	Peak

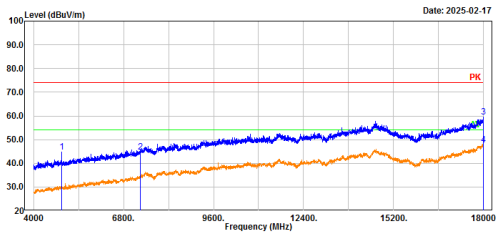
802.11b mode, Middle Channel, Vertical

Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11b middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz
Serial No.: 2XWO-9
Tester: Leo Xiao



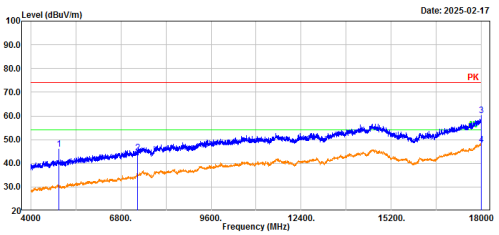
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2629.60	56.18	-7.73	48.45	74.00	25.55	Peak

Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11b middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4874.00	53.13	-8.50	44.63	74.00	29.37	Peak
2	7311.00	48.06	-3.27	44.79	74.00	29.21	Peak
3	17997.20	48.30	11.38	59.68	74.00	14.32	Peak
4	17997.20	36.28	11.38	47.66	54.00	6.34	Average

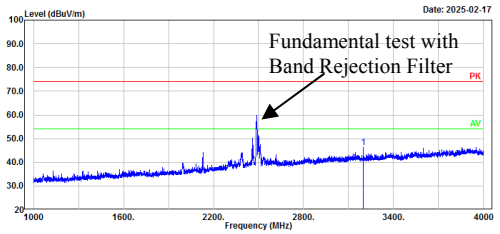
Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11b middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4874.00	54.57	-8.50	46.07	74.00	27.93	Peak
2	7311.00	47.76	-3.27	44.49	74.00	29.51	Peak
3	17997.20	48.63	11.38	60.01	74.00	13.99	Peak
4	17997.20	36.25	11.38	47.63	54.00	6.37	Average

802.11b mode, High Channel, Horizontal

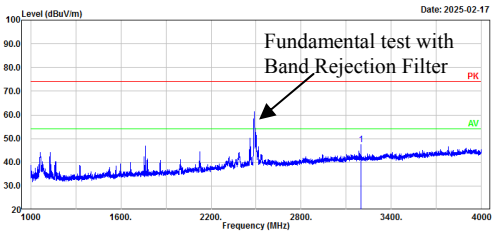
Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11b high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3197.20	52.06	-5.81	46.25	74.00	27.75	Peak

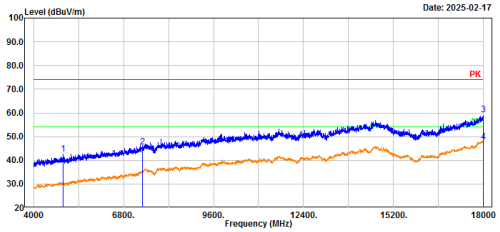
802.11b mode, High Channel, Vertical

Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11b high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz
Serial No.: 2XWO-9
Tester: Leo Xiao



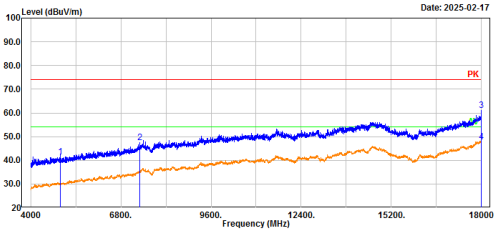
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3198.40	53.14	-5.80	47.34	74.00	26.66	Peak

Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11b high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4924.00	51.03	-8.47	42.56	74.00	31.44	Peak
2	7386.00	48.49	-2.71	45.78	74.00	28.22	Peak
3	17999.00	47.93	11.38	59.31	74.00	14.69	Peak
4	17999.00	36.43	11.38	47.81	54.00	6.19	Average

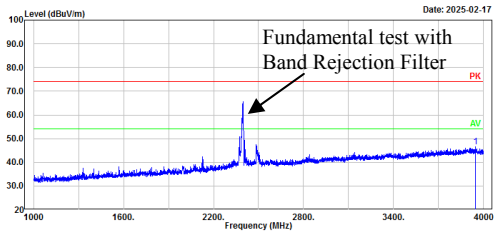
Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11b high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4924.00	49.86	-8.47	41.39	74.00	32.61	Peak
2	7386.00	50.15	-2.71	47.44	74.00	26.56	Peak
3	17997.20	49.54	11.38	60.92	74.00	13.08	Peak
4	17997.20	36.30	11.38	47.68	54.00	6.32	Average

802.11g mode, Low Channel, Horizontal

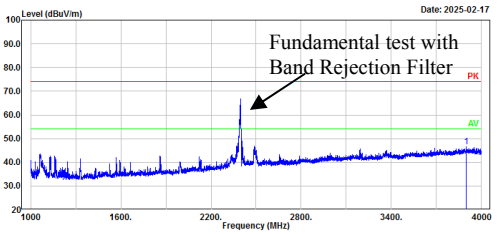
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3946.00	50.19	-3.61	46.58	74.00	27.42	Peak

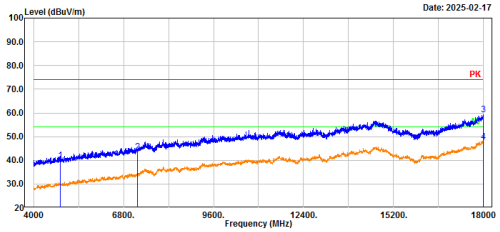
802.11g mode, Low Channel, Vertical

Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz



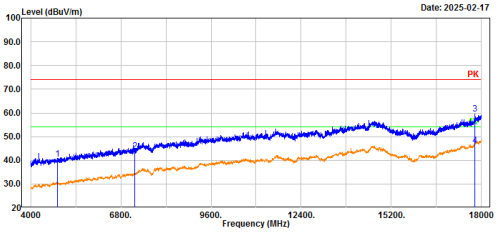
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3899.20	50.07	-3.60	46.47	74.00	27.53	Peak

Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4824.00	48.58	-8.58	40.00	74.00	34.00	Peak
2	7236.00	47.12	-3.67	43.45	74.00	30.55	Peak
3	17988.80	48.01	11.33	59.34	74.00	14.66	Peak
4	17988.80	36.48	11.33	47.81	54.00	6.19	Average

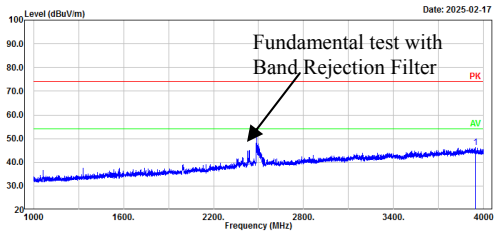
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4824.00	49.11	-8.58	40.53	74.00	33.47	Peak
2	7236.00	47.40	-3.67	43.73	74.00	30.27	Peak
3	17795.60	49.47	9.98	59.45	74.00	14.55	Peak
4	17795.60	36.28	9.98	46.26	54.00	7.74	Average

802.11g mode, Middle Channel, Horizontal

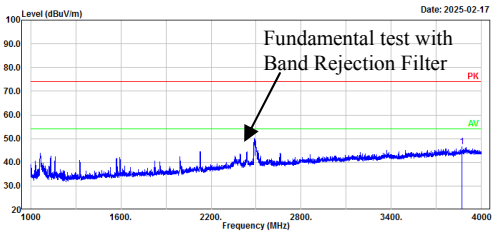
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3944.80	49.84	-3.63	46.21	74.00	27.79	Peak

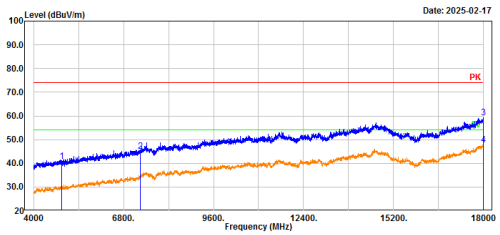
802.11g mode, Middle Channel, Vertical

Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz



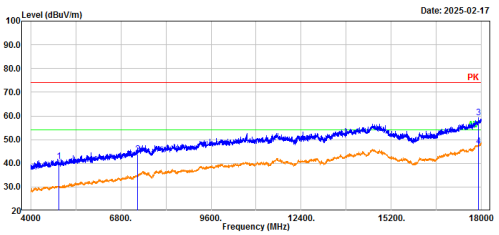
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3869.20	50.58	-3.97	46.61	74.00	27.39	Peak

Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4874.00	49.20	-8.50	40.70	74.00	33.30	Peak
2	7311.00	48.36	-3.27	45.09	74.00	28.91	Peak
3	17997.20	47.88	11.38	59.26	74.00	14.74	Peak
4	17997.20	36.46	11.38	47.84	54.00	6.16	Average

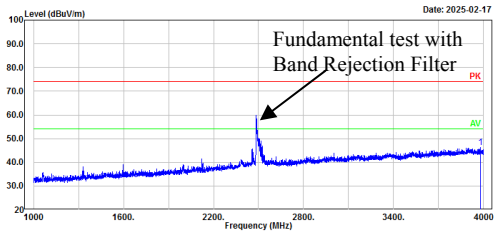
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4874.00	49.34	-8.50	40.84	74.00	33.16	Peak
2	7311.00	47.18	-3.27	43.91	74.00	30.09	Peak
3	17902.00	48.36	10.74	59.10	74.00	14.90	Peak
4	17902.00	36.47	10.74	47.21	54.00	6.79	Average

802.11g mode, High Channel, Horizontal

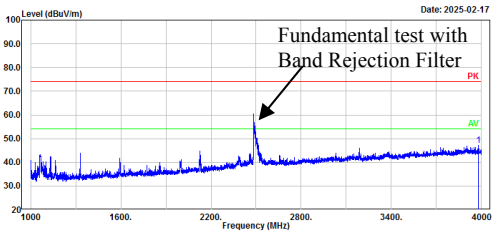
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3979.60	49.97	-3.76	46.21	74.00	27.79	Peak

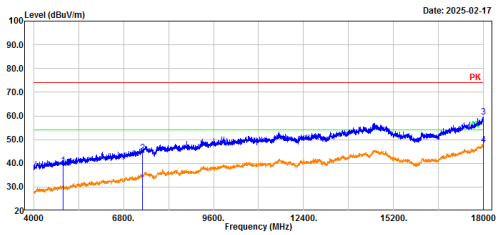
802.11g mode, High Channel, Vertical

Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz



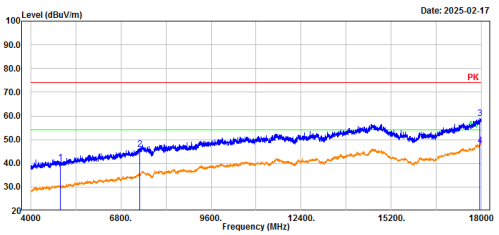
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3977.80	51.03	-3.76	47.27	74.00	26.73	Peak

Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4924.00	47.45	-8.47	38.98	74.00	35.02	Peak
2	7386.00	47.27	-2.71	44.56	74.00	29.44	Peak
3	17988.80	48.10	11.33	59.43	74.00	14.57	Peak
4	17988.80	36.39	11.33	47.72	54.00	6.28	Average

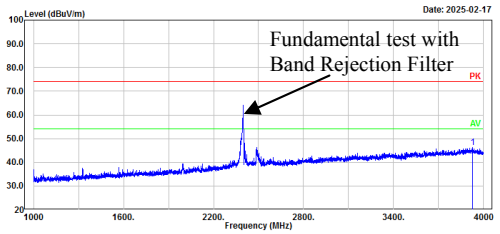
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4924.00	48.73	-8.47	40.26	74.00	33.74	Peak
2	7386.00	48.73	-2.71	46.02	74.00	27.98	Peak
3	17952.40	47.79	11.10	58.89	74.00	15.11	Peak
4	17952.40	36.40	11.10	47.50	54.00	6.50	Average

802.11n20 mode, Low Channel, Horizontal

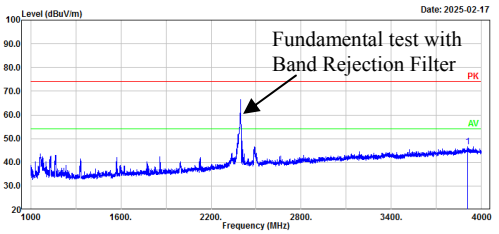
Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n20 low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3926.20	49.93	-3.76	46.17	74.00	27.83	Peak

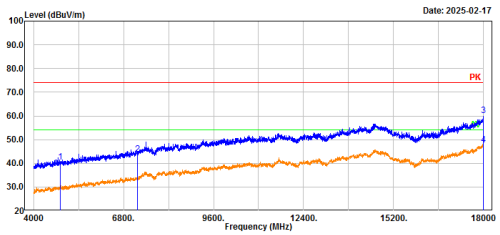
802.11n20 mode, Low Channel, Vertical

Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n20 low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz
Serial No.: 2XWO-9
Tester: Leo Xiao



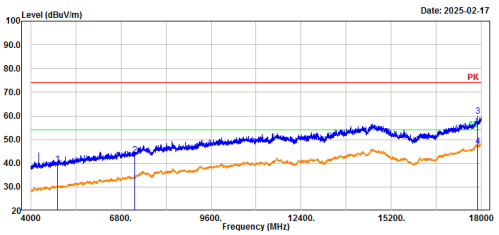
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3909.40	50.35	-3.69	46.66	74.00	27.34	Peak

Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n20 low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4824.00	49.06	-8.58	40.48	74.00	33.52	Peak
2	7236.00	47.45	-3.67	43.78	74.00	30.22	Peak
3	17999.00	48.71	11.38	60.09	74.00	13.91	Peak
4	17999.00	36.48	11.38	47.86	54.00	6.14	Average

Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n20 low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz
Serial No.: 2XWO-9
Tester: Leo Xiao

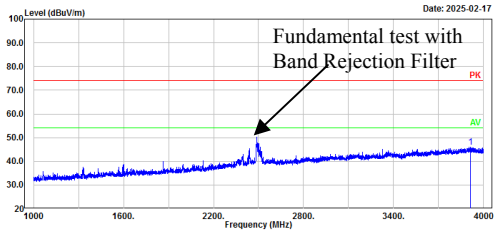


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4824.00	48.32	-8.58	39.74	74.00	34.26	Peak
2	7236.00	47.07	-3.67	43.40	74.00	30.60	Peak
3	17885.20	49.09	10.66	59.75	74.00	14.25	Peak
4	17885.20	36.49	10.66	47.15	54.00	6.85	Average

802.11n20 mode, Middle Channel, Horizontal

Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n20 middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2XWO-9
Tester: Leo Xiao

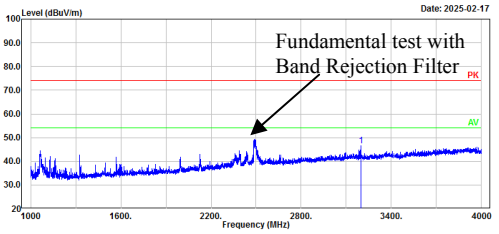


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3910.60	49.80	-3.70	46.10	74.00	27.90	Peak

802.11n20 mode, Middle Channel, Vertical

Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n20 middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz

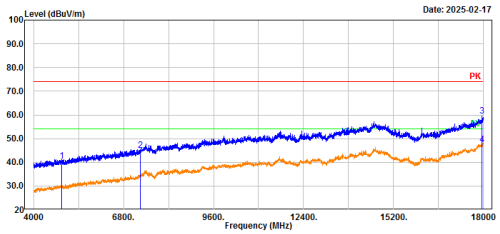
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3197.20	52.26	-5.81	46.45	74.00	27.55	Peak

Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11n20 middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

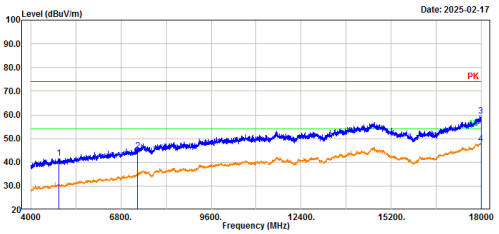
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4874.00	49.10	-8.50	40.60	74.00	33.40	Peak
2	7311.00	48.36	-3.27	45.09	74.00	28.91	Peak
3	17955.20	48.28	11.12	59.40	74.00	14.60	Peak
4	17955.20	36.33	11.12	47.45	54.00	6.55	Average

Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11n20 middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

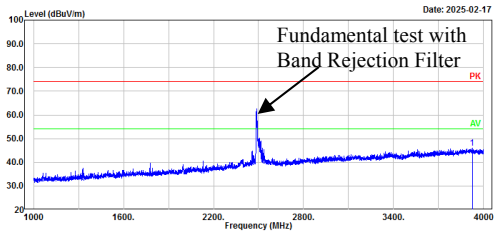
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4874.00	50.32	-8.50	41.82	74.00	32.18	Peak
2	7311.00	48.01	-3.27	44.74	74.00	29.26	Peak
3	17980.40	48.21	11.30	59.51	74.00	14.49	Peak
4	17980.40	36.35	11.30	47.65	54.00	6.35	Average

802.11n20 mode, High Channel, Horizontal

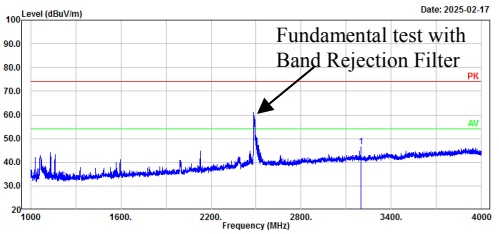
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11n20 high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3924.40	49.74	-3.76	45.98	74.00	28.02	Peak

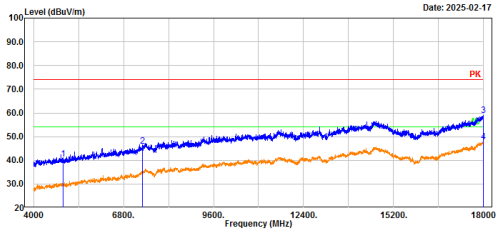
802.11n20 mode, High Channel, Vertical

Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11n20 high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz



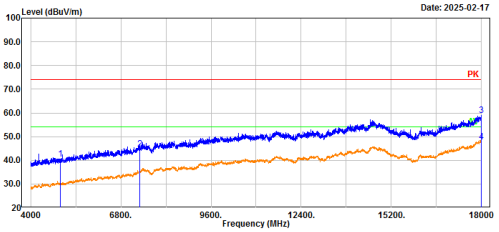
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3196.60	52.33	-5.83	46.50	74.00	27.50	Peak

Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11n20 high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4924.00	48.99	-8.47	40.52	74.00	33.48	Peak
2	7386.00	48.71	-2.71	46.00	74.00	28.00	Peak
3	17997.20	47.67	11.38	59.05	74.00	14.95	Peak
4	17997.20	36.45	11.38	47.83	54.00	6.17	Average

Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11n20 high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

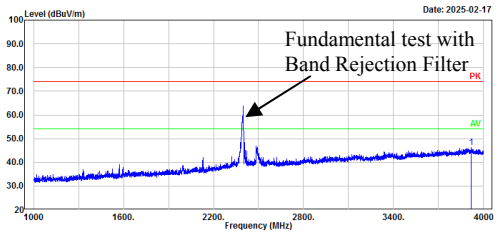


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4924.00	49.06	-8.47	40.59	74.00	33.41	Peak
2	7386.00	47.37	-2.71	44.66	74.00	29.34	Peak
3	17999.00	47.56	11.38	58.94	74.00	15.06	Peak
4	17999.00	36.45	11.38	47.83	54.00	6.17	Average

802.11ax20 mode, Low Channel, Horizontal

Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ax20 low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 2XWO-9
Tester: Leo Xiao

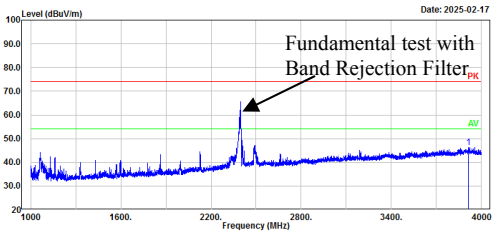


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3919.00	50.15	-3.74	46.41	74.00	27.59	Peak

802.11ax20 mode, Low Channel, Vertical

Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ax20 low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz

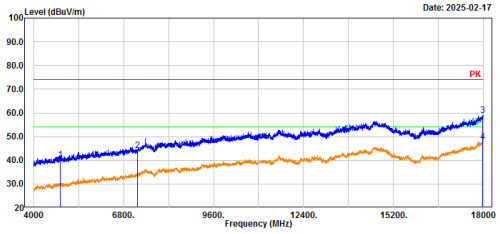
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3911.80	50.11	-3.70	46.41	74.00	27.59	Peak

Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ax20 low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

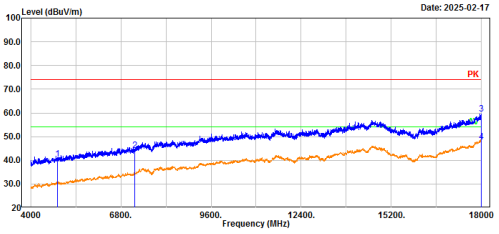
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4824.00	48.75	-8.58	40.17	74.00	33.83	Peak
2	7236.00	47.82	-3.67	44.15	74.00	29.85	Peak
3	17963.60	47.72	11.18	58.90	74.00	15.10	Peak
4	17963.60	36.46	11.18	47.64	54.00	6.36	Average

Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ax20 low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

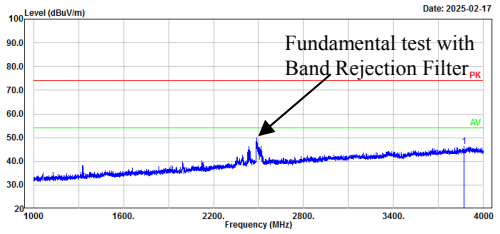
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4824.00	49.21	-8.58	40.63	74.00	33.37	Peak
2	7236.00	47.95	-3.67	44.28	74.00	29.72	Peak
3	17994.40	48.26	11.37	59.63	74.00	14.37	Peak
4	17994.40	36.26	11.37	47.63	54.00	6.37	Average

802.11ax20 mode, Middle Channel, Horizontal

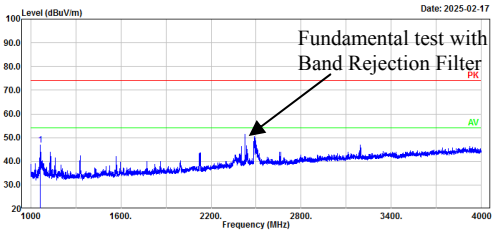
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11ax20 middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3869.80	50.17	-3.97	46.20	74.00	27.80	Peak

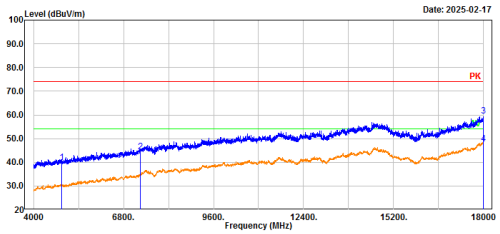
802.11ax20 mode, Middle Channel, Vertical

Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11ax20 middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz



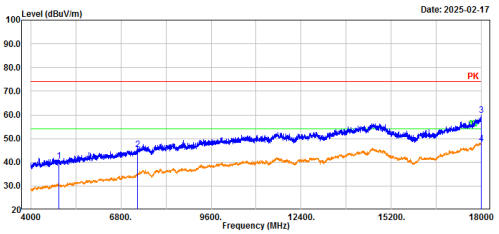
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1066.00	61.17	-14.26	46.91	74.00	27.09	Peak

Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11ax20 middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4874.00	48.52	-8.50	40.02	74.00	33.98	Peak
2	7311.00	47.72	-3.27	44.45	74.00	29.55	Peak
3	17999.00	48.05	11.38	59.43	74.00	14.57	Peak
4	17999.00	36.48	11.38	47.86	54.00	6.14	Average

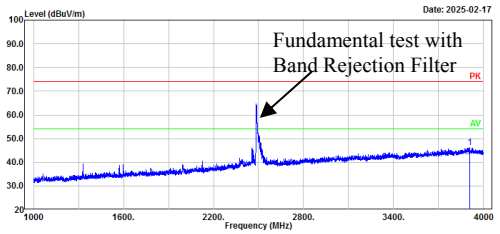
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11ax20 middle channel 2437MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4874.00	49.11	-8.50	40.61	74.00	33.39	Peak
2	7311.00	48.66	-3.27	45.39	74.00	28.61	Peak
3	17988.80	48.65	11.33	59.98	74.00	14.02	Peak
4	17988.80	36.40	11.33	47.73	54.00	6.27	Average

802.11ax20 mode, High Channel, Horizontal

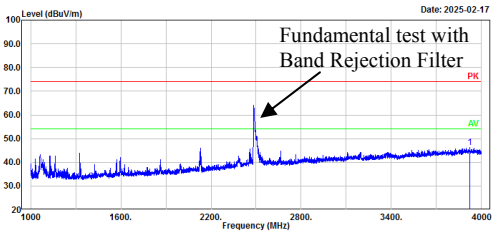
Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ax20 high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3906.40	49.83	-3.65	46.18	74.00	27.82	Peak

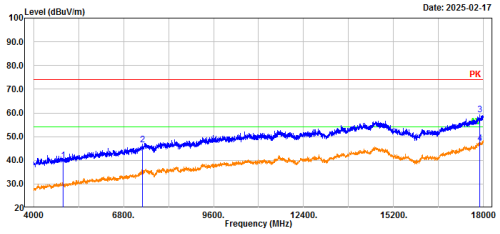
802.11ax20 mode, High Channel, Vertical

Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ax20 high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz
Serial No.: 2XWO-9
Tester: Leo Xiao



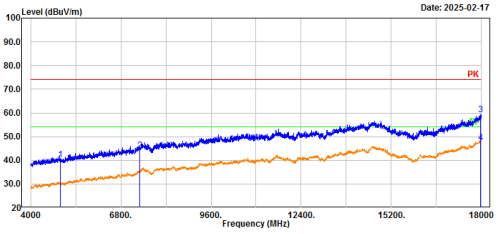
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	3920.20	50.13	-3.74	46.39	74.00	27.61	Peak

Project No.: 2502P42997E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 802.11ax20 high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz
Serial No.: 2XWO-9
Tester: Leo Xiao



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4924.00	48.54	-8.47	40.07	74.00	33.93	Peak
2	7386.00	49.14	-2.71	46.43	74.00	27.57	Peak
3	17879.60	48.55	10.62	59.17	74.00	14.83	Peak
4	17879.60	36.40	10.62	47.02	54.00	6.98	Average

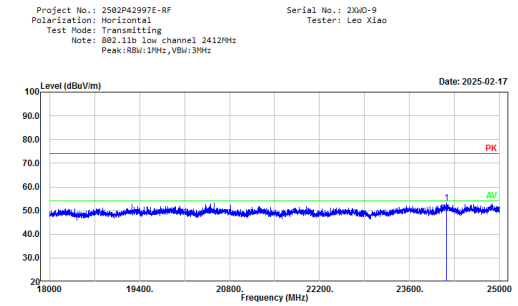
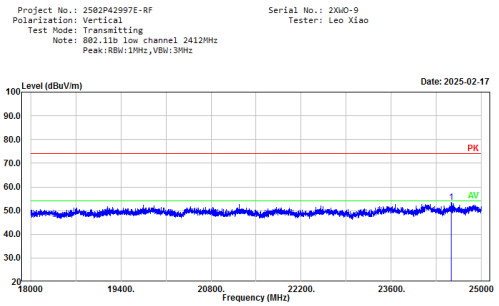
Project No.: 2502P42997E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 802.11ax20 high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz
Serial No.: 2XWO-9
Tester: Leo Xiao



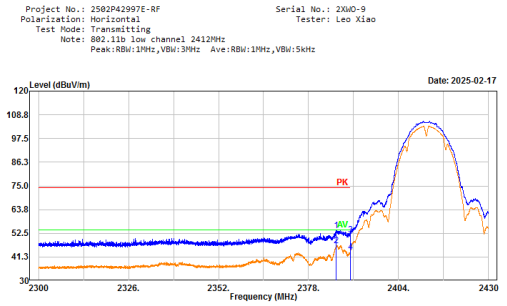
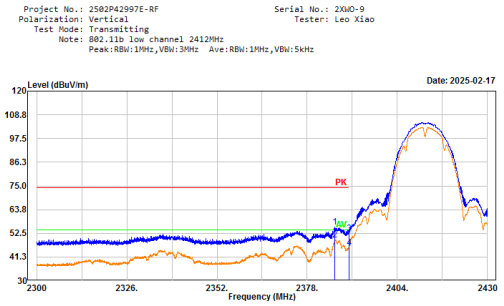
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4924.00	48.71	-8.47	40.24	74.00	33.76	Peak
2	7386.00	46.77	-2.71	44.06	74.00	29.94	Peak
3	17977.60	48.11	11.28	59.39	74.00	14.61	Peak
4	17977.60	36.30	11.28	47.58	54.00	6.42	Average

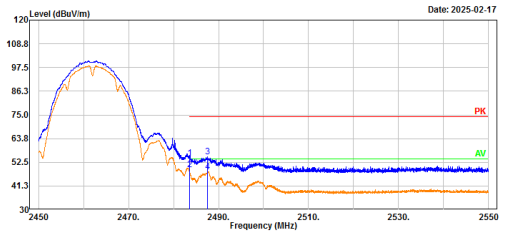
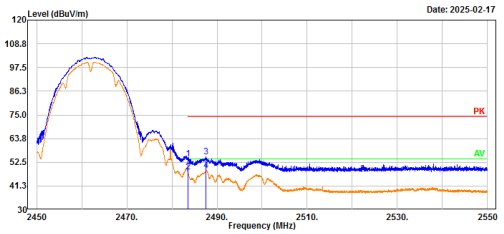
18-25GHz:

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

802.11b mode, Low Channel, Horizontal	802.11b mode, Low Channel, Vertical
 No. Frequency (MHz) Reading (dBμV) Factor (dB/m) Result (dBμV/m) Limit (dBμV/m) Margin (dB) Detector 1 24172.60 44.01 9.26 53.27 74.00 20.73 Peak	 No. Frequency (MHz) Reading (dBμV) Factor (dB/m) Result (dBμV/m) Limit (dBμV/m) Margin (dB) Detector 1 24529.60 44.48 9.06 53.54 74.00 20.46 Peak

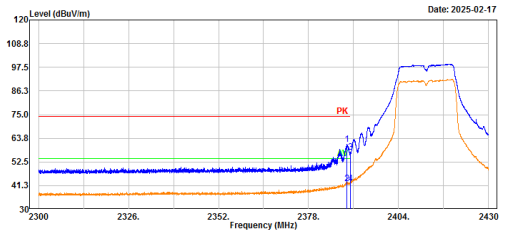
Bandedge:

802.11b mode, Low Channel, Bandedge, Horizontal	802.11b mode, Low Channel, Bandedge, Vertical
	
No. Frequency (MHz) Reading (dBμV) Factor (dB/m) Result (dBμV/m) Limit (dBμV/m) Margin (dB) Detector 1 2385.98 54.28 -0.52 53.76 74.00 20.24 Peak 2 2385.98 47.23 -0.52 46.71 54.00 7.29 Average 3 2390.00 52.39 -0.49 51.90 74.00 22.10 Peak 4 2390.00 43.98 -0.49 43.49 54.00 10.51 Average	No. Frequency (MHz) Reading (dBμV) Factor (dB/m) Result (dBμV/m) Limit (dBμV/m) Margin (dB) Detector 1 2385.96 55.82 -0.52 55.30 74.00 18.70 Peak 2 2385.96 49.87 -0.52 49.35 54.00 4.65 Average 3 2390.00 53.00 -0.49 52.51 74.00 21.49 Peak 4 2390.00 46.12 -0.49 45.63 54.00 8.37 Average

802.11b mode, High Channel, Bandedge, Horizontal	802.11b mode, High Channel, Bandedge, Vertical
	
No. Frequency (MHz) Reading (dBμV) Factor (dB/m) Result (dBμV/m) Limit (dBμV/m) Margin (dB) Detector 1 2483.50 54.43 -0.05 54.38 74.00 19.62 Peak 2 2483.50 48.95 -0.05 48.90 54.00 5.10 Average 3 2487.56 55.26 -0.03 55.23 74.00 18.77 Peak 4 2487.56 48.16 -0.03 48.13 54.00 5.87 Average	No. Frequency (MHz) Reading (dBμV) Factor (dB/m) Result (dBμV/m) Limit (dBμV/m) Margin (dB) Detector 1 2483.50 54.24 -0.05 54.19 74.00 19.81 Peak 2 2483.50 48.20 -0.05 48.15 54.00 5.85 Average 3 2487.50 55.09 -0.03 55.06 74.00 18.94 Peak 4 2487.50 48.66 -0.03 48.63 54.00 5.37 Average

802.11g mode, Low Channel, Bandedge, Horizontal

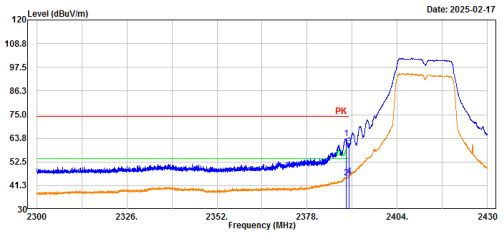
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2388.97	61.34	-0.50	60.84	74.00	13.16	Peak
2	2388.97	42.82	-0.50	42.32	54.00	11.68	Average
3	2390.00	57.54	-0.49	57.05	74.00	16.95	Peak
4	2390.00	42.85	-0.49	42.36	54.00	11.64	Average

802.11g mode, Low Channel, Bandedge, Vertical

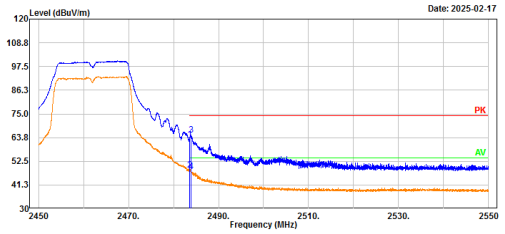
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2389.23	64.27	-0.50	63.77	74.00	10.23	Peak
2	2389.23	45.48	-0.50	44.98	54.00	9.02	Average
3	2390.00	60.48	-0.49	59.99	74.00	14.01	Peak
4	2390.00	45.98	-0.49	45.49	54.00	8.51	Average

802.11g mode, High Channel, Bandedge, Horizontal

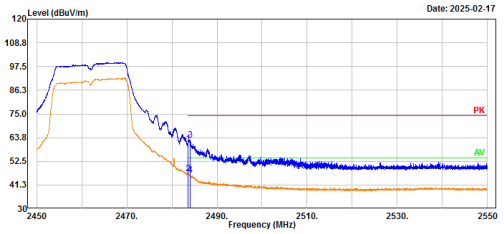
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2483.50	63.05	-0.05	63.00	74.00	11.00	Peak
2	2483.50	48.46	-0.05	48.41	54.00	5.59	Average
3	2483.84	64.98	-0.05	64.93	74.00	9.07	Peak
4	2483.84	47.65	-0.05	47.60	54.00	6.40	Average

802.11g mode, High Channel, Bandedge, Vertical

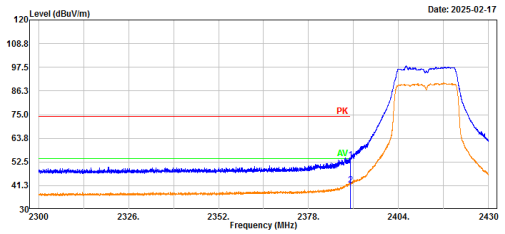
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11g high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2483.50	61.05	-0.05	61.00	74.00	13.00	Peak
2	2483.50	46.69	-0.05	46.64	54.00	7.36	Average
3	2483.98	62.73	-0.05	62.68	74.00	11.32	Peak
4	2483.98	45.92	-0.05	45.87	54.00	8.13	Average

802.11n20 mode, Low Channel, Bandedge, Horizontal

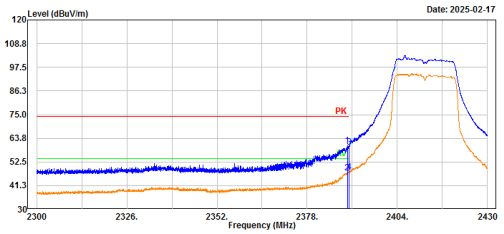
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11n20 low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.00	53.82	-0.49	53.33	74.00	20.67	Peak
2	2390.00	42.15	-0.49	41.66	54.00	12.34	Average

802.11n20 mode, Low Channel, Bandedge, Vertical

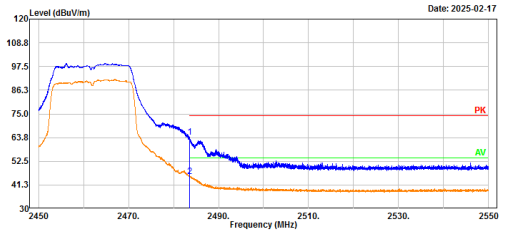
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11n20 low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2389.57	60.73	-0.49	60.24	74.00	13.76	Peak
2	2389.57	47.71	-0.49	47.22	54.00	6.78	Average
3	2390.00	60.20	-0.49	59.71	74.00	14.29	Peak
4	2390.00	48.12	-0.49	47.63	54.00	6.37	Average

802.11n20 mode, High Channel, Bandedge, Horizontal

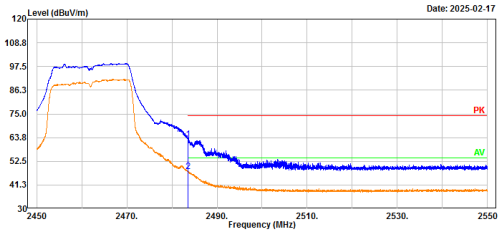
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11n20 high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2483.50	63.96	-0.05	63.91	74.00	10.09	Peak
2	2483.50	45.20	-0.05	45.15	54.00	8.85	Average

802.11n20 mode, High Channel, Bandedge, Vertical

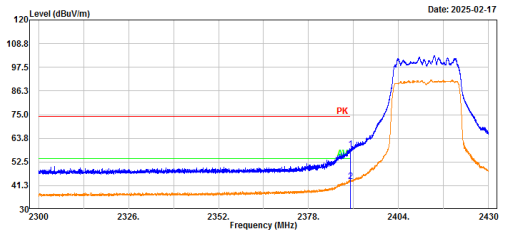
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11n20 high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2483.50	63.10	-0.05	63.05	74.00	10.95	Peak
2	2483.50	47.57	-0.05	47.52	54.00	6.48	Average

802.11ax20 mode, Low Channel, Bandedge, Horizontal

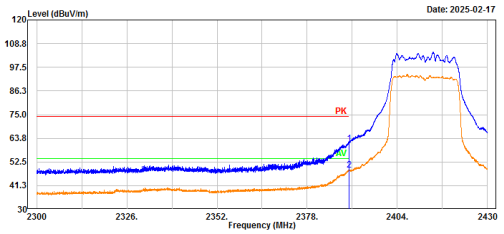
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11ax20 low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.00	58.89	-0.49	58.40	74.00	15.60	Peak
2	2390.00	43.65	-0.49	43.16	54.00	10.84	Average

802.11ax20 mode, Low Channel, Bandedge, Vertical

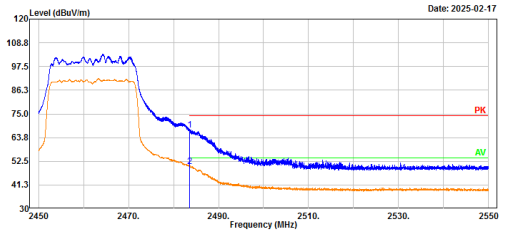
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11ax20 low channel 2412MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.00	61.81	-0.49	61.32	74.00	12.68	Peak
2	2390.00	49.07	-0.49	48.58	54.00	5.42	Average

802.11ax20 mode, High Channel, Bandedge, Horizontal

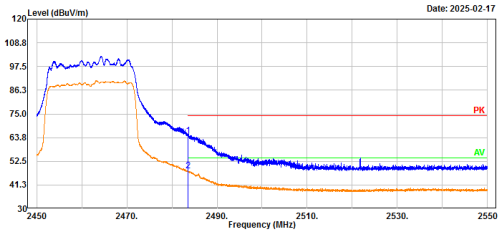
Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Horizontal Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11ax20 high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2483.50	67.55	-0.05	67.50	74.00	6.50	Peak
2	2483.50	50.22	-0.05	50.17	54.00	3.83	Average

802.11ax20 mode, High Channel, Bandedge, Vertical

Project No.: 2502P42997E-RF Serial No.: 2XWO-9
Polarization: Vertical Tester: Leo Xiao
Test Mode: Transmitting
Note: 802.11ax20 high channel 2462MHz
Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2483.50	64.76	-0.05	64.71	74.00	9.29	Peak
2	2483.50	47.89	-0.05	47.84	54.00	6.16	Average

5.3 6dB Emission Bandwidth

Test Information:

Serial No.:	2XWO-7	**Test Date:**	2025/05/28
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Tower Qing	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	25.7	**Relative Humidity: (%)**	62	**ATM Pressure: (kPa)**	101.3

Test Equipment List and Details:

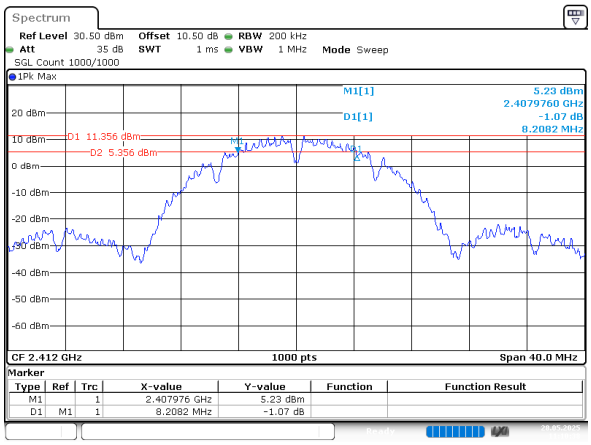
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

** 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:

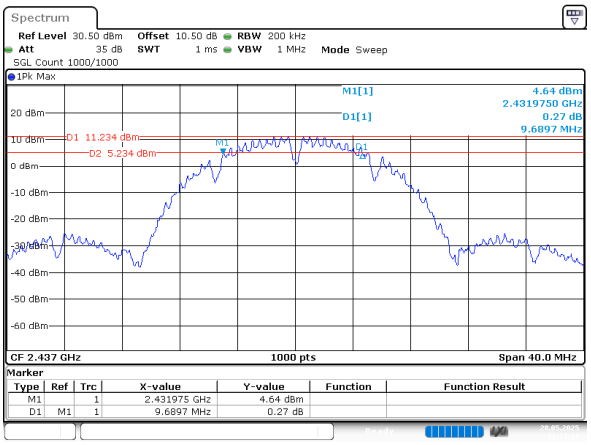
Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	2412	8.208	≥0.5	Pass
	2437	9.690	≥0.5	Pass
	2462	8.809	≥0.5	Pass
802.11g	2412	16.376	≥0.5	Pass
	2437	16.497	≥0.5	Pass
	2462	16.497	≥0.5	Pass
802.11n20	2412	17.698	≥0.5	Pass
	2437	17.738	≥0.5	Pass
	2462	17.738	≥0.5	Pass
802.11ax20_RU_Full	2412	19.099	≥0.5	Pass
	2437	19.099	≥0.5	Pass
	2462	19.099	≥0.5	Pass

802.11b_2412MHz



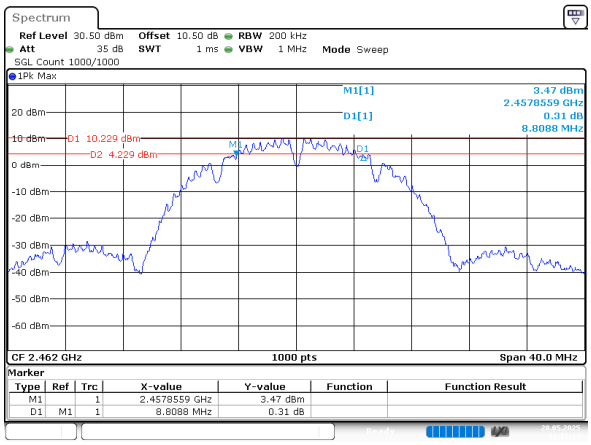
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 28.MAY.2025 11:10:38

802.11b_2437MHz



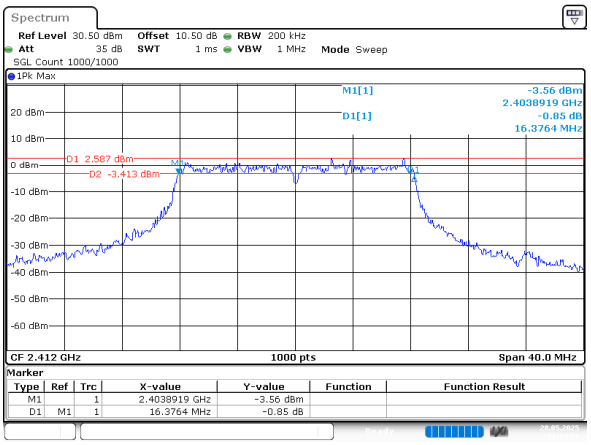
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 28.MAY.2025 11:11:19

802.11b_2462MHz



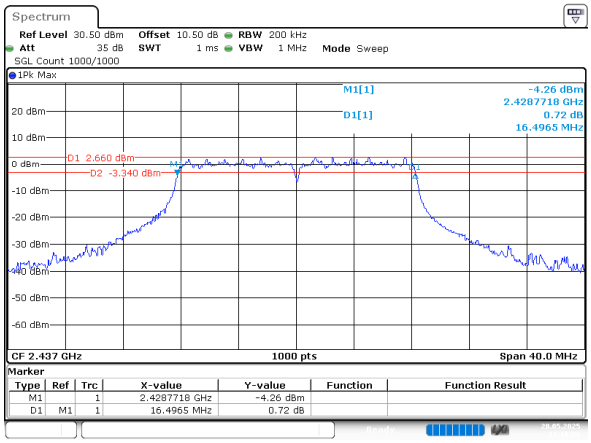
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 28.MAY.2025 11:12:12

802.11g_2412MHz



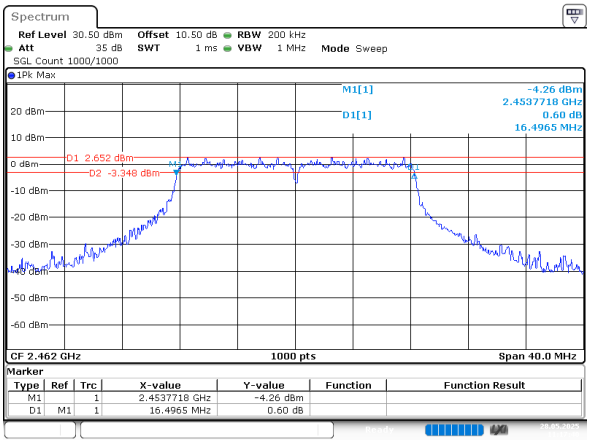
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 28.MAY.2025 11:14:52

802.11g_2437MHz



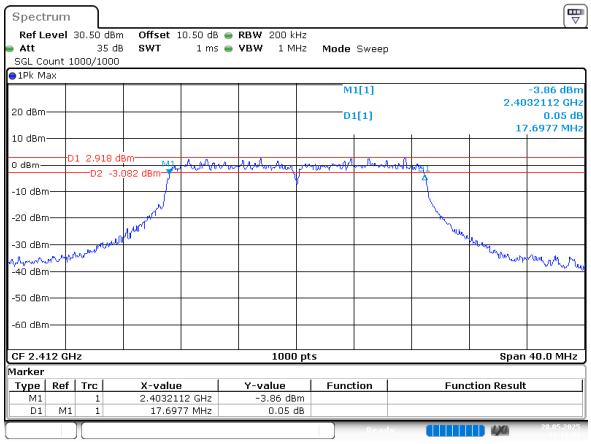
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 28.MAY.2025 11:16:59

802.11g_2462MHz



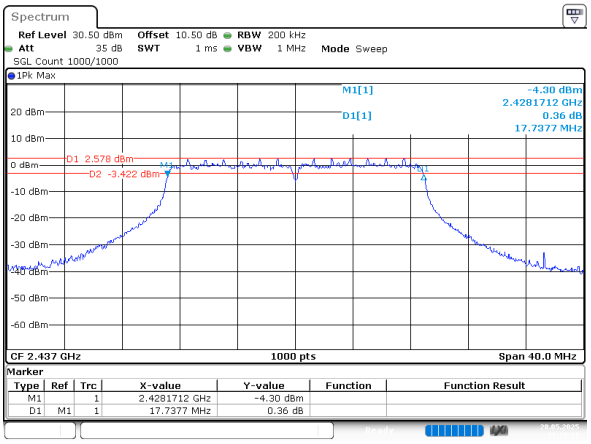
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 28.MAY.2025 11:17:41

802.11n20_2412MHz



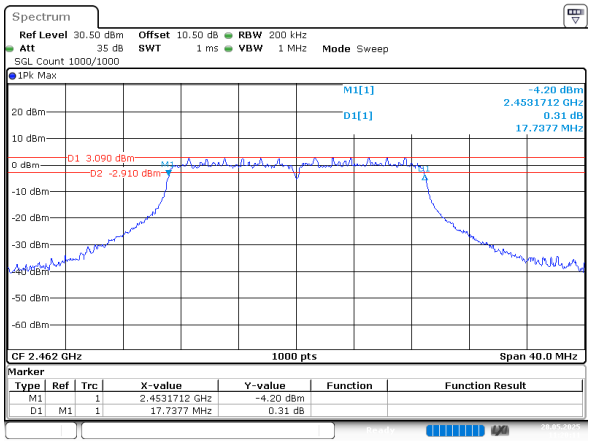
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 28.MAY.2025 11:18:54

802.11n20_2437MHz



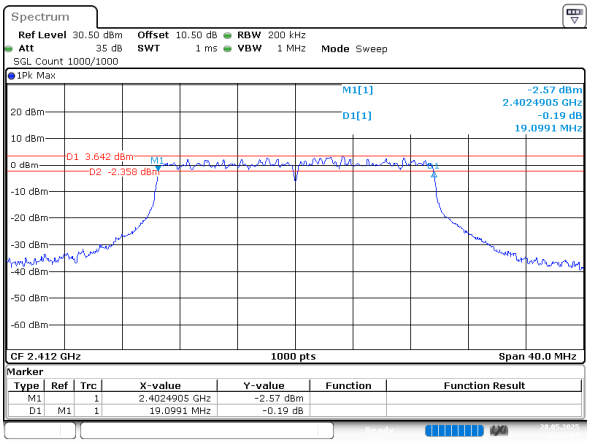
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 28.MAY.2025 11:19:32

802.11n20_2462MHz



ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 28.MAY.2025 11:20:11

802.11ax20_2412MHz_RU_Full



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Date: 28.MAY.2025 11:23:08

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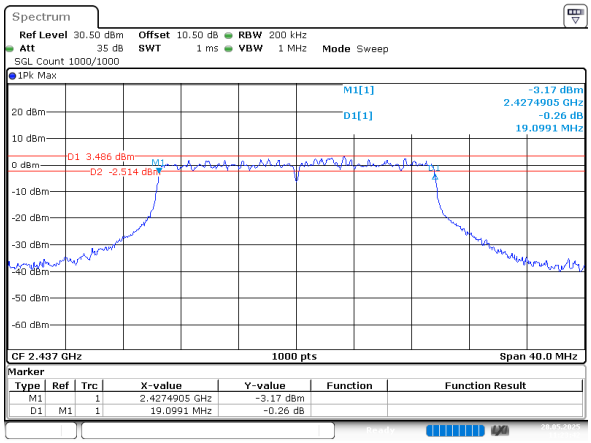

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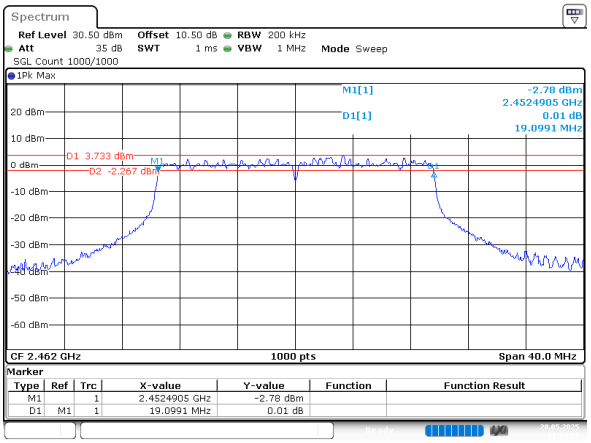
802.11ax20_2462MHz_RU_Full



ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 28.MAY.2025 11:24:22

5.4 99% Occupied Bandwidth

Test Information:

Serial No.:	2XWO-7	**Test Date:**	2025/02/21
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Tower Qing	**Test Result:**	N/A

Environmental Conditions:

Temperature: (°C)	24.4	**Relative Humidity: (%)**	40	**ATM Pressure: (kPa)**	101.6

Test Equipment List and Details:

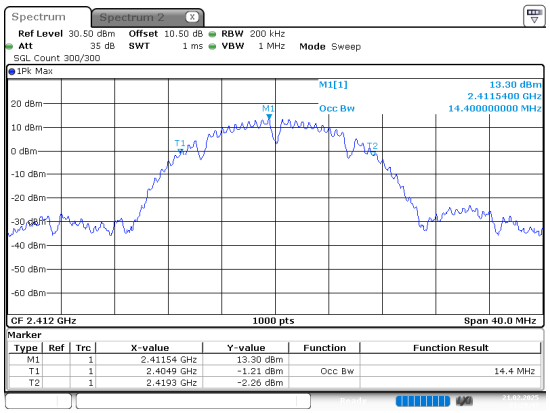
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

** 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:

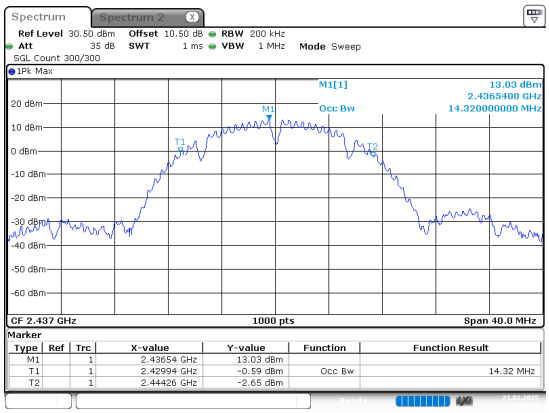
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11b	2412	14.400
	2437	14.320
	2462	14.280
802.11g	2412	16.560
	2437	16.600
	2462	16.600
802.11n20	2412	17.800
	2437	17.760
	2462	17.760
802.11ax20_RU_Full	2412	19
	2437	19
	2462	19

802.11b_2412MHz



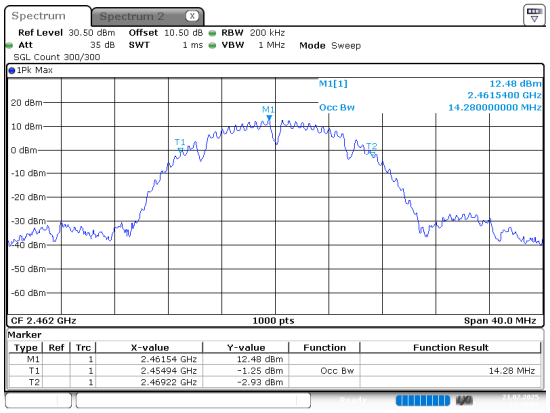
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 21:29:47

802.11b_2437MHz



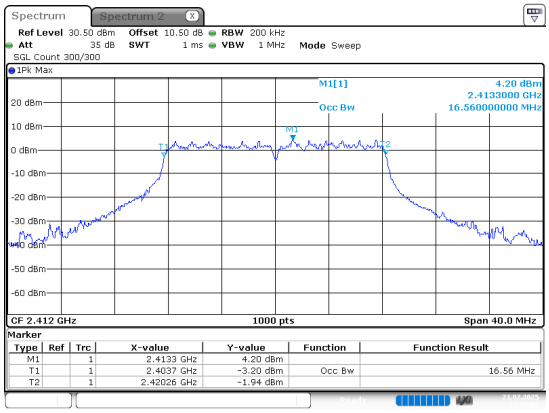
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 21:46:18

802.11b_2462MHz



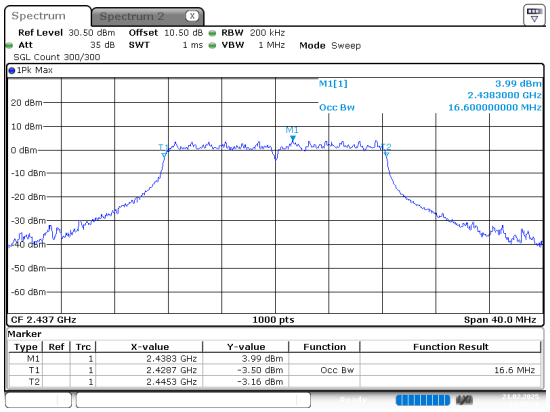
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 21:49:03

802.11g_2412MHz



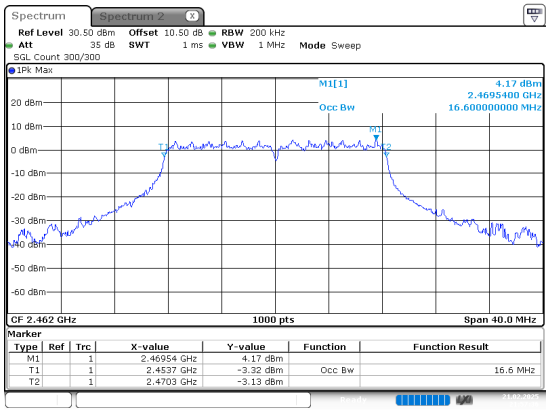
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 21:51:04

802.11g_2437MHz



ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 21:55:28

802.11g_2462MHz



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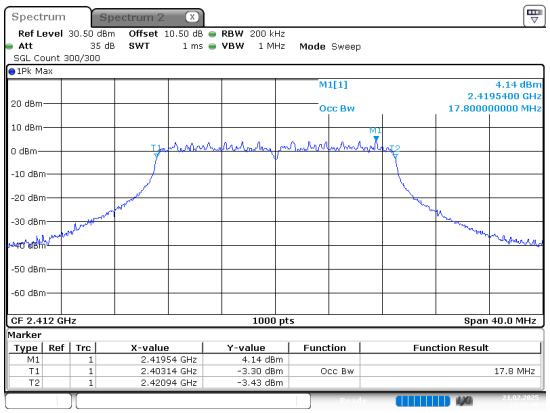
802.11n20_2412MHz



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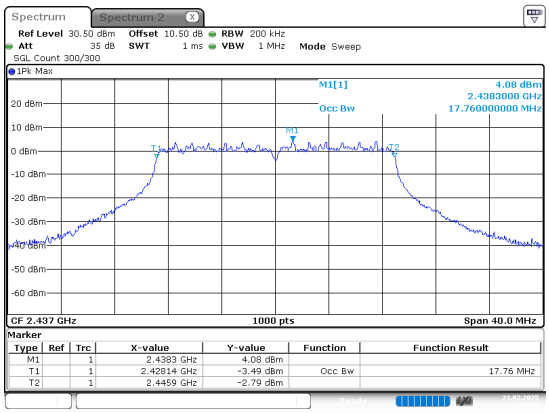
Date: 21.FEB.2025 21:59:48

802.11n20_2437MHz



ProjectNo.:2502P42997E-RF Tester:Tower Qing
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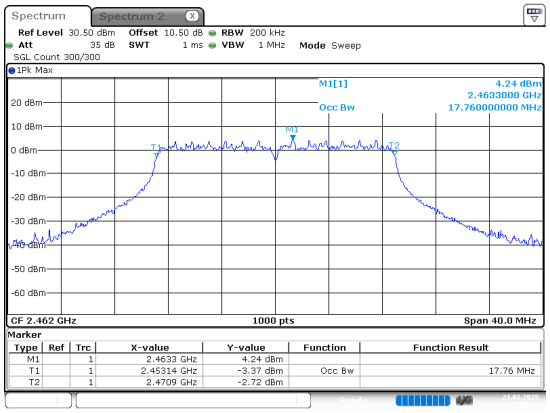
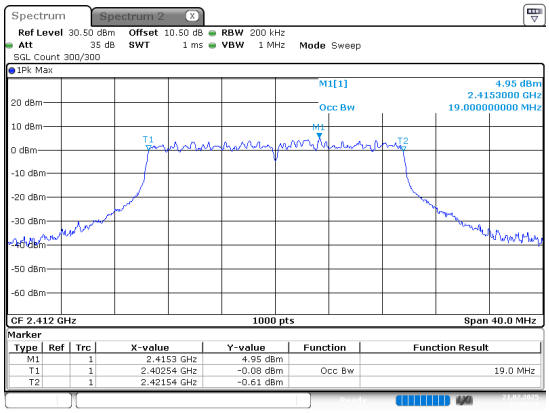
802.11n20_2462MHz



ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 22:05:02

802.11ax20_2412MHz_RU_Full



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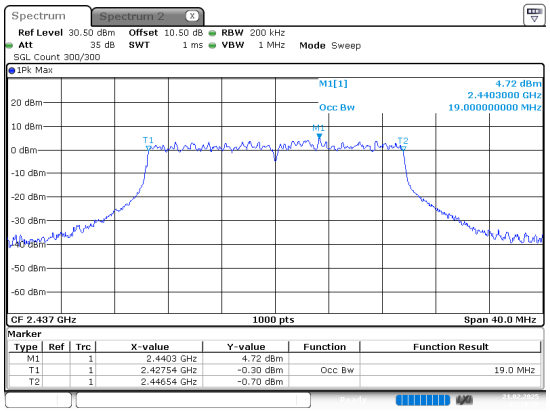
802.11ax20_2437MHz_RU_Full



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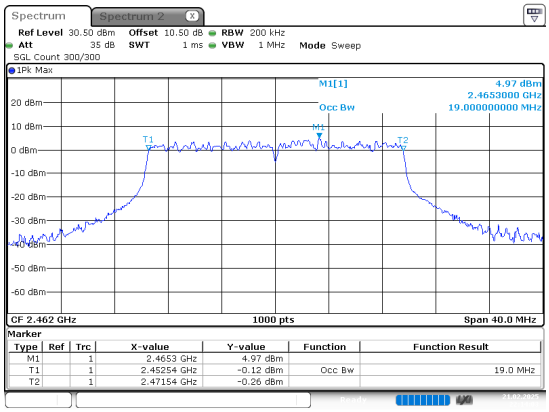
Date: 21.FEB.2025 22:10:35

802.11ax20_2462MHz_RU_Full



ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 22:14:04

5.5 Maximum Conducted Output Power

Test Information:

Serial No.:	2XWO-7	**Test Date:**	2025/02/21
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Tower Qing	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	24.4	**Relative Humidity: (%)**	40	**ATM Pressure: (kPa)**	101.6

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	**24.01**	21.66	30	Pass
		2437	23.86	21.34	30	Pass
		2462	23.29	20.74	30	Pass
802.11g	Chain 0	2412	22.36	14.30	30	Pass
		2437	22.13	14.09	30	Pass
		2462	22.29	14.27	30	Pass
802.11n20	Chain 0	2412	22.45	14.34	30	Pass
		2437	22.31	14.08	30	Pass
		2462	22.38	14.26	30	Pass
802.11ax20_RU_Full	Chain 0	2412	23.63	14.23	30	Pass
		2437	23.47	14.04	30	Pass
		2462	23.55	14.19	30	Pass
Max EIRP			27.26		36	Pass

5.6 Power Spectral Density

Test Information:

Serial No.:	2XWO-7	**Test Date:**	2025/02/21
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Tower Qing	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	24.4	**Relative Humidity: (%)**	40	**ATM Pressure: (kPa)**	101.6

Test Equipment List and Details:

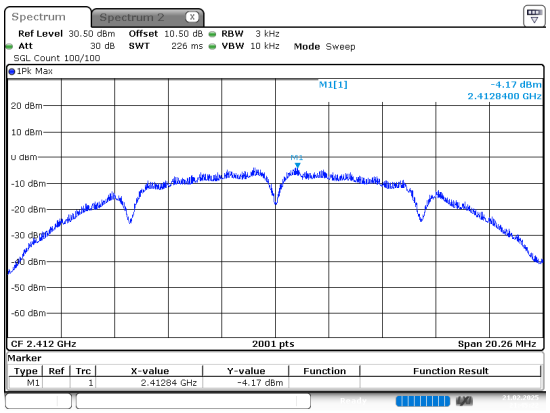
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

** 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).*

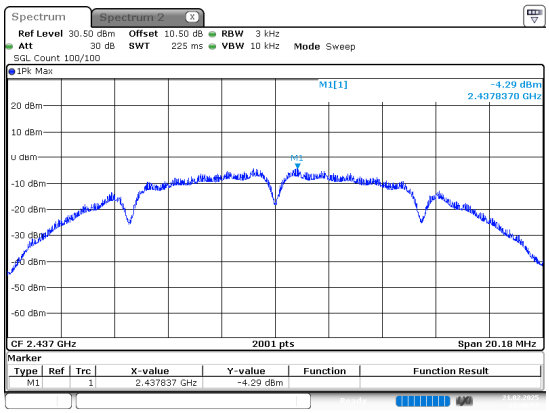
Test Data:

Mode	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	2412	-4.17	8	Pass
	2437	-4.29	8	Pass
	2462	-4.91	8	Pass
802.11g	2412	-12.25	8	Pass
	2437	-12.48	8	Pass
	2462	-12.21	8	Pass
802.11n20	2412	-11.15	8	Pass
	2437	-11.68	8	Pass
	2462	-11.24	8	Pass
802.11ax20_RU_Full	2412	-12.34	8	Pass
	2437	-12.58	8	Pass
	2462	-12.53	8	Pass

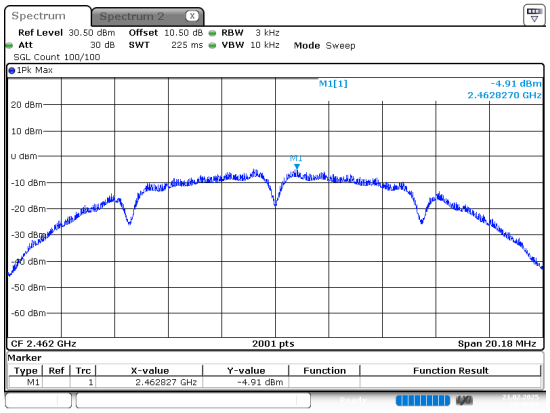
802.11b_2412MHz



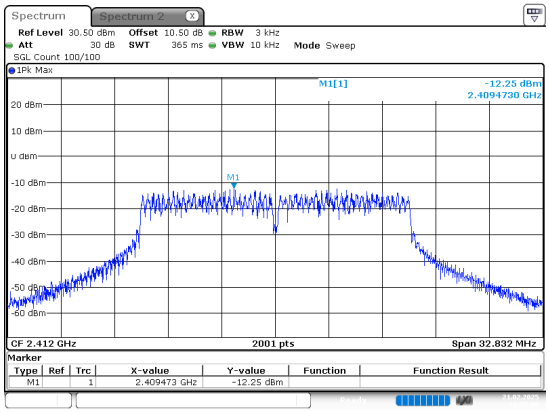
802.11b_2437MHz



802.11b_2462MHz



802.11g_2412MHz



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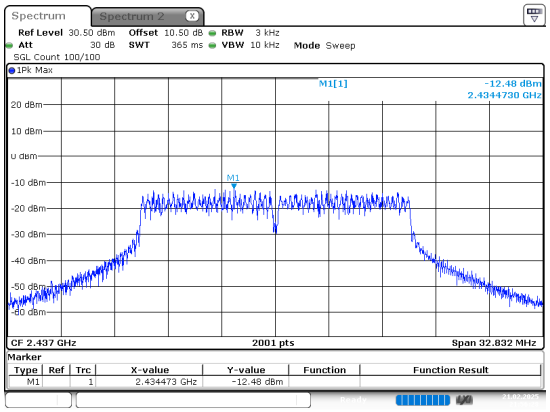
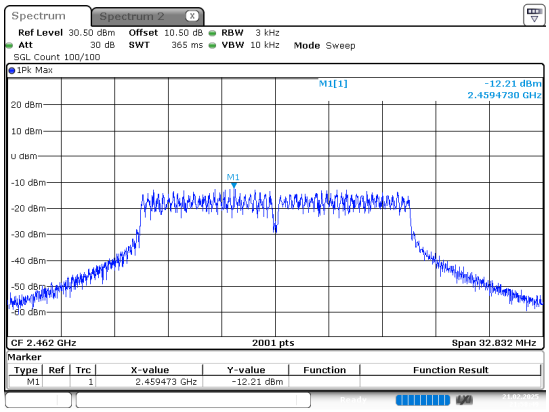
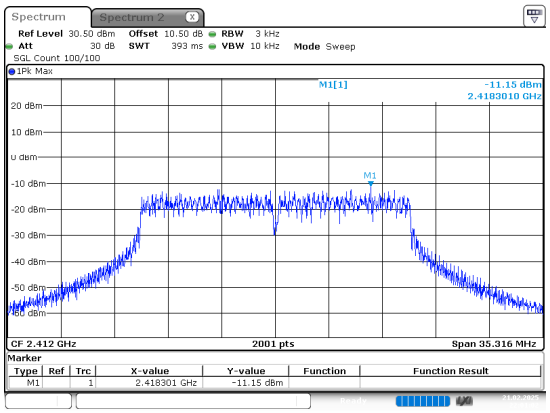


802.11g_2462MHz

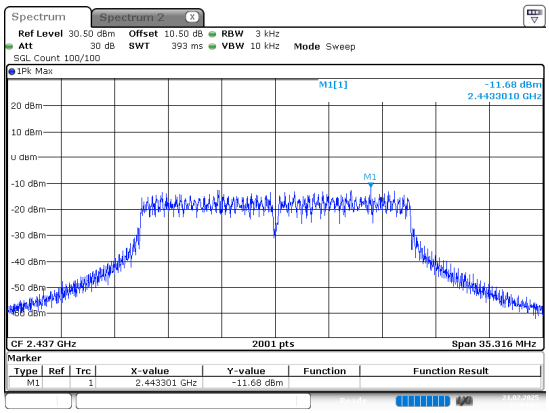


802.11n20_2412MHz



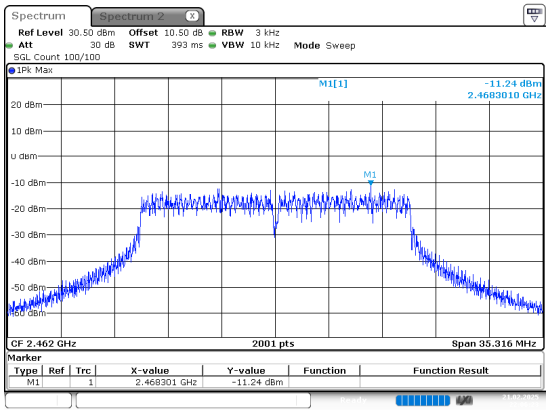
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 22:01:02

802.11n20_2437MHz



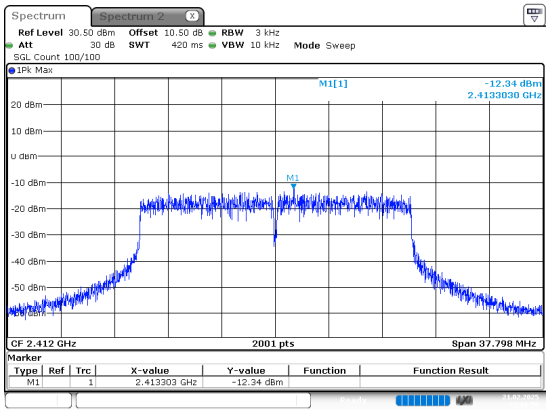
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 22:04:04

802.11n20_2462MHz



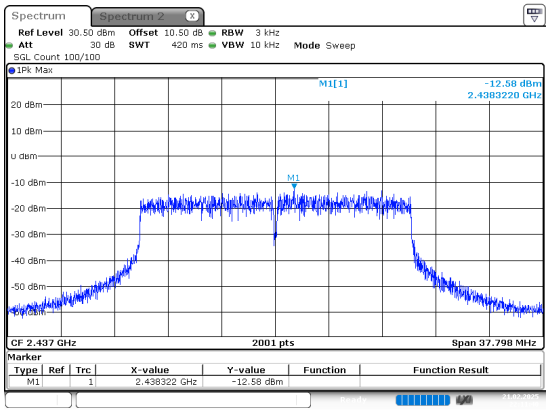
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 22:06:24

802.11ax20_2412MHz_RU_Full



ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 22:08:50

802.11ax20_2437MHz_RU_Full



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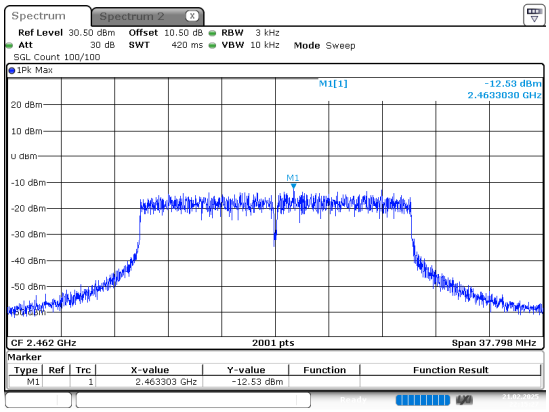
802.11ax20_2462MHz_RU_Full



ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 22:15:27

5.7 100 kHz Bandwidth of Frequency Band Edge

Test Information:

Serial No.:	2XWO-7	**Test Date:**	2025/02/21
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Tower Qing	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	24.4	**Relative Humidity: (%)**	40	**ATM Pressure: (kPa)**	101.6

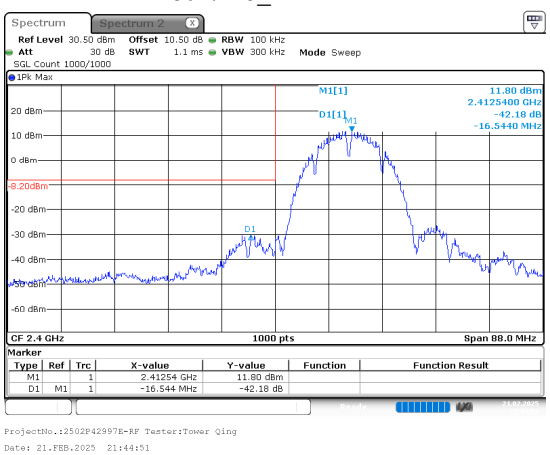
Test Equipment List and Details:

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	101589	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



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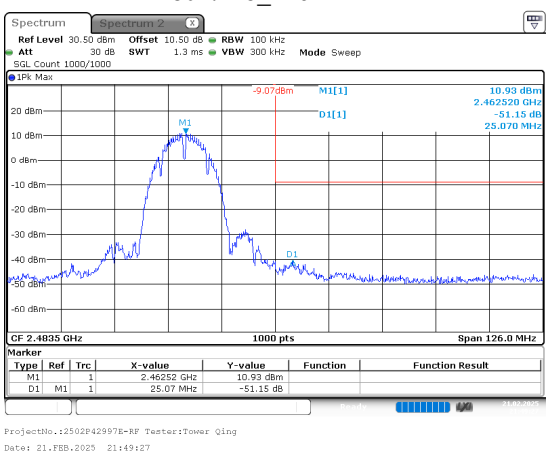
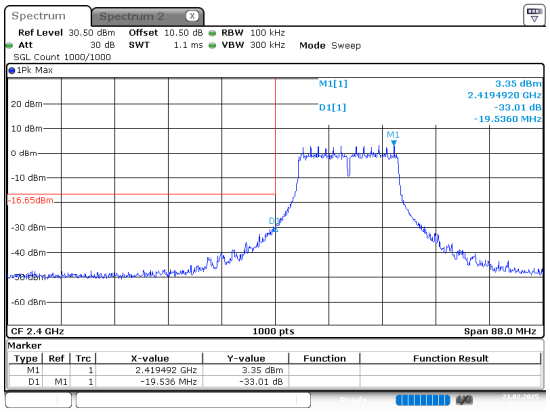
Date: 21.FEB.2025 21:44:51

802.11b_2462MHz



ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 21:49:27

802.11g_2412MHz



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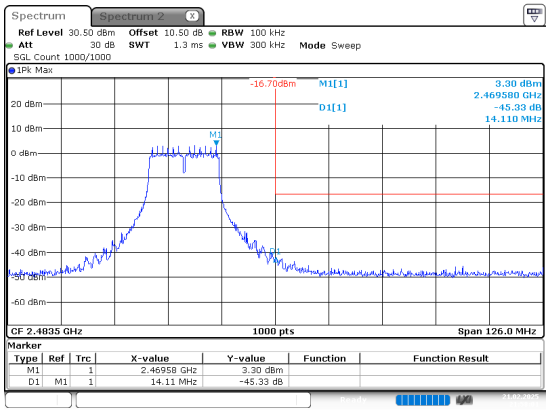
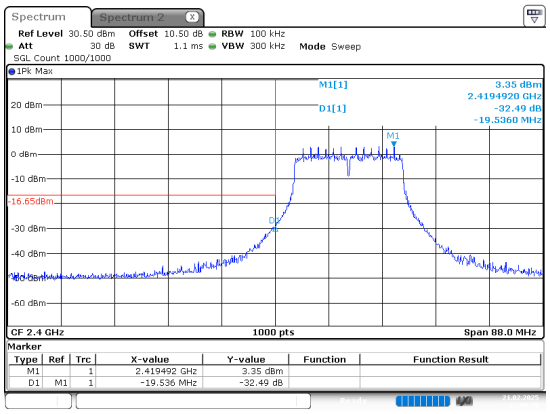
Date: 21.FEB.2025 21:51:32

802.11g_2462MHz



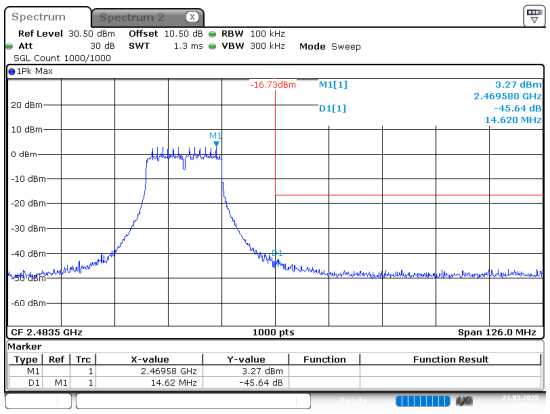
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 21:58:01

802.11n20_2412MHz



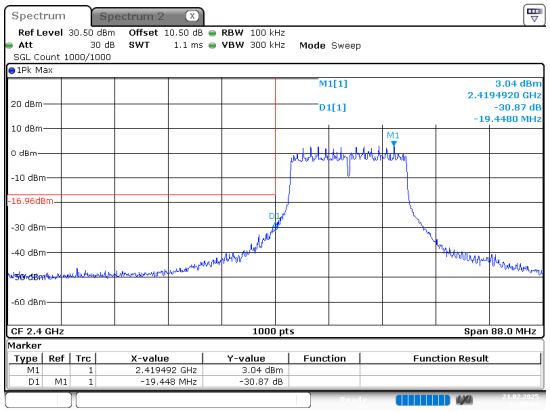
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 22:00:10

802.11n20_2462MHz



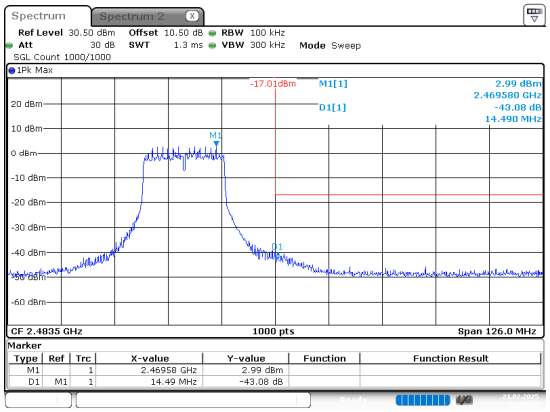
ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 22:05:31

802.11ax20_2412MHz_RU_Full



ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 22:07:55

802.11ax20_2462MHz_RU_Full



ProjectNo.:2502P42997E-RF Tester:Tower Qing
Date: 21.FEB.2025 22:14:31

5.8 Duty Cycle

Test Information:

Serial No.:	2XWO-7	**Test Date:**	2025/02/21
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Tower Qing	**Test Result:**	N/A

Environmental Conditions:

Temperature: (°C)	24.4	**Relative Humidity: (%)**	40	**ATM Pressure: (kPa)**	101.6

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	101589	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).*

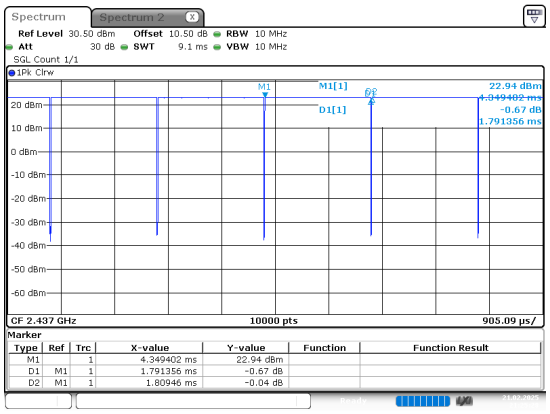
Test Data:

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
802.11b	2437	1.791	1.809	99.00	/	0.010
802.11g	2437	0.285	0.310	91.94	3509	5
802.11n20	2437	0.284	0.305	93.11	3521	5
802.11ax20_RU_Full	2437	0.230	0.251	91.63	4348	5

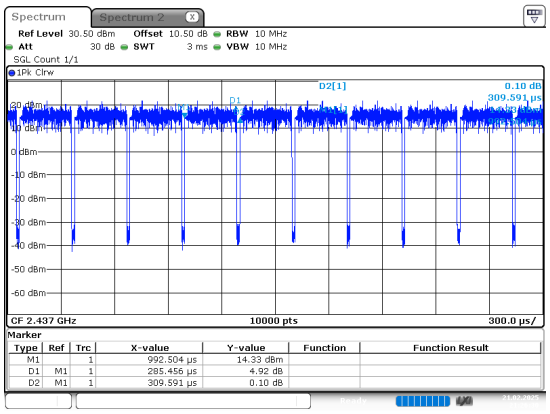
Duty Cycle = Ton/(Ton+Toff)*100%

2.4G

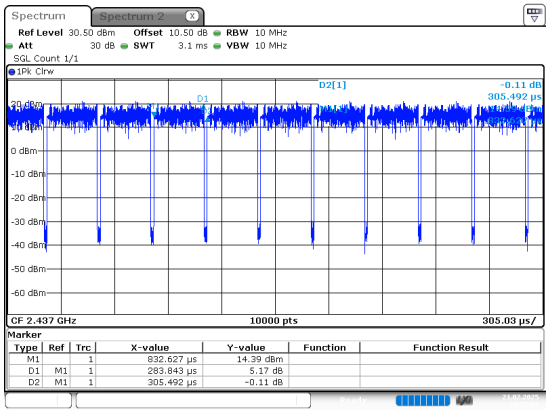
802.11b_2437MHz



802.11g_2437MHz



802.11n20_2437MHz



802.11ax20_2437MHz_RU_Full

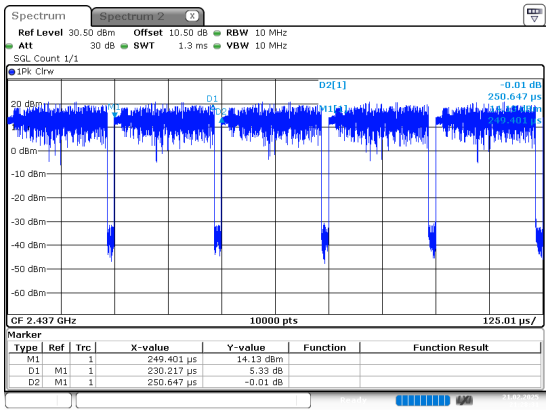


EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2502P42997E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502P42997E-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2502P42997E-RF-00B-TSP TEST SETUP PHOTOGRAPHS.

EXHIBIT C - RF EXPOSURE EVALUATION

Maximum Permissible Exposure (MPE)

Applicable Standard

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

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

Mode	Frequency (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance▲		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
		(dBi)	(numeric)	(dBm)	(mW)			
BLE	2402-2480	3.25	2.11	5.0	3.16	20.00	0.001	1.0
WiFi	2412-2462	3.25	2.11	24.5	281.84	20.00	0.119	1.0

Note:
The Conducted output power including Tune-up Tolerance provided by manufacturer
BLE and Wifi can't transmit simultaneously.

Result: The device meet FCC MPE at 20 cm distance

Exemption Limits For Routine Evaluation-RF Exposure Evaluation

Applicable Standard

RSS-102, Issue 6, Clause 6.6:

Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:

• below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

• at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;

• at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);

• at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;

• at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

Calculated Data:

Mode	Frequency (MHz)	Antenna Gain	Conducted output power including Tune-up Tolerance	EIRP		Exemption limits (mW)
		(dBi)	(dBm)	(dBm)	(mW)	
BLE	2402-2480	3.25	5.0	8.25	6.68	2676
WiFi	2412-2462	3.25	24.5	27.75	595.66	2684

Note:
The Conducted output power including Tune-up Tolerance was provided by manufacturer.
BLE and Wifi can't transmit simultaneously.

Result: So the device is compliance with the exemption from Routine Evaluation Limits –RF exposure Evaluation.

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