



TEST REPORT

Applicant Name: Reolink Innovation Limited

Address: FCC: FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING

75-77 FA YUEN STREET MONG KOK KL Hong Kong

IC: FLAT/RM 705 7/F, FA YUEN COMMERCIAL BUILDING 75-77, FA YUEN STREET, MONG KOK, KL Kowloon Hongkong

Report Number: SZNS221014-47078E-RF

FCC ID: 2AYHE-2208D IC: 26839-2208D

Test Standard (s)

FCC PART 15.247; RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2; RSS-247, ISSUE 2, FEBRUARY 2017

Sample Description

Product Type: WiFi IP Camera
Model No.: Reolink TrackMix

Multiple Model(s) No.: N/A
Trade Mark: Reolink
Date Received: 2022/10/14
Report Date: 2023/01/03

Test Result: Pass*

* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Approved By:

Andy Yu

Candy Li

EMC Engineer

Andy. Yu

EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "* "

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Shenzhen Accurate Technology Co., Ltd.

1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China
Tel: +86 755-26503290 Fax: +86 755-26503396 Web: www.atc-lab.com

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

HVIN	Reolink TrackMix
FVIN	V1
Frequency Range	Wi-Fi: 2412-2462MHz
Maximum Conducted Peak Output Power	Wi-Fi: 18.52dBm(802.11b), 17.57dBm(802.11g) 17.89dBm(802.11n-HT20)
Modulation Technique	Wi-Fi: DSSS, OFDM
Antenna Specification*	3.12dBi (It is provided by the applicant)
Voltage Range	DC 7.2V from battery or DC 5.0V from USB
Sample serial number	1MAA-1 for Conducted and Radiated Emissions 1N1S-4 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition

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Objective

This report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules and RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247, Issue 2, February 2017 of the Innovation, Science and Economic Development Canada rules.

The tests were performed in order to determine Compliant with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209, 15.247 rules and RSS-GEN, RSS-247.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliant Testing of Unlicensed Wireless Devices and RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-247, Issue 2, February 2017.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Char	nnel Bandwidth	5%
RF Fre	equency	$0.082*10^{-7}$
RF output pov	wer, conducted	0.73dB
Unwanted Emi	ssion, conducted	1.6dB
AC Power Lines C	onducted Emissions	2.72dB
	9kHz - 30MHz	2.66dB
.	30MHz - 1GHz	4.28dB
Emissions, Radiated	1GHz - 18GHz	4.98dB
Radiated	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
Temperature		1℃
Hun	nidity	6%
Supply voltages		0.4%

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

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 2.4GHz Wi-Fi mode, total 11 channels are provided to testing:

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

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For 802.11b, 802.11g, 802.11n-HT20, EUT was tested with Channel 1, 6 and 11.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

"CC3xxxRadioTool-1.0.3.16*" exercise software was used

The device was tested with the worst case was performed as below:

Mode	Data rate		Power Level*	
Mode	Data Tate	Low Channel	Middle Channel	High Channel
802.11b	1Mbps	0	0	0
802.11g	6Mbps	0	3	0
802.11n-HT20	MCS0	0	3	0

The software and power level was provided by the applicant.

Duty cycle

Test Result: Pass. Please refer to the Appendix.

Support Equipment List and Details

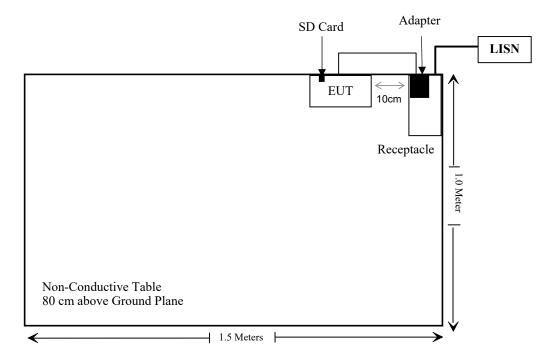
Manufacturer	Description	Model	Serial Number
Unknown	SD Card	Unknown	Unknown
Infinix	Adapter	U100XSA	Unknown
HuaJin	Adapter	HJ-0502000W2-US	Unknown

External I/O Cable

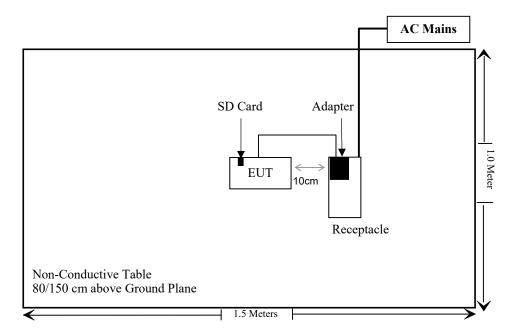
Cable Description	Length (m)	From Port	То
Un-shielding Detachable USB Cable	1.0	EUT	Adapter

Block Diagram of Test Setup

For conducted emission:



For radiated emission:



SUMMARY OF TEST RESULTS

FCC Rules	RSS-247 & RSS-Gen Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (3) & §2.1091	RSS-102 § 2.5.2	RF Exposure& EXEMPTION LIMITS FOR ROUTINE EVALUATION-RF EXPOSURE EVALUATION	Compliant
§15.203	RSS-Gen §6.8	Antenna Requirement	Compliant
§15.207 (a)	RSS-Gen §8.8	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	RSS-GEN § 8.10 & RSS-247 § 5.5	Spurious Emissions	Compliant
§15.247 (a)(2)	RSS- Gen§6.7 RSS-247 § 5.2 (a)	99% Occupied Bandwidth & 6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	RSS-247 § 5.4(d)	Maximum Conducted Output Power	Compliant
§15.247(d)	RSS-247 § 5.5	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	RSS-247 § 5.2 (b)	Power Spectral Density	Compliant

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
		Conducted Emiss	sions Test		
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2022/11/25	2023/11/24
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2022/11/25	2023/11/24
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2022/12/07	2023/12/06
Unknown	RF Coaxial Cable	No.17	N0350	2022/11/25	2023/11/24
	Conducted E	mission Test Sof	tware: e3 19821b ((V9)	
		Radiated Emissi	ions Test		
Rohde& Schwarz	Test Receiver	ESR	102725	2022/11/25	2023/11/24
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2022/11/25	2023/11/24
SONOMA INSTRUMENT	Amplifier	310 N	186131	2022/11/08	2023/11/07
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07
Quinstar	Amplifier	QLW- 18405536-J0	15964001002	2022/11/08	2023/11/07
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.11	N1000	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.12	N040	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.13	N300	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.14	N800	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.15	N600	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.16	N650	2022/11/25	2023/11/24
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2022/11/25	2023/11/24

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Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF conducted test					
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101590	2021/12/13	2022/12/12
Tonscend	RF Control Unit	JS0806-2	19G8060182	2022/10/24	2023/10/23
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.31	RF-01	Each	time

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^{*} Statement of Traceability: Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.247 (i) & §1.1307 (b) (3) & §2.1091- RF Exposure

Applicable Standard

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power. For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

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Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R ² .
1.34-30	3,450 R ² /f ² .
30-300	3.83 R ² .
300-1,500	0.0128 R ² f.
1,500-100,000	19.2R ² .

f = frequency in MHz;

R = minimum separation distance from the body of a nearby person (appropriate units, e.g., m);

Result

For worst case:

Frequency (MHz)	Tune up conducted power	Anten	na Gain	ERP		Evaluation Distance	ERP Limit (W)	
	(dBm)	(dBi)	(dBd)	(dBm)	(W)	(m)	(,	
2412-2462	19.0	3.12	0.97	19.97	0.093	0.2	0.768	
5150-5250	14.0	3.75	1.60	15.60	0.036	0.2	0.768	
5725-5850	14.0	4.29	2.14	16.24	0.042	0.2	0.768	

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.

- 2. The 2.4GHz wifi and 5GHz wifi cannot transmit at same time.
- 3. 0dBd=2.15dBi.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

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RSS-102 § 2.5.2 –EXEMPTION LIMITS FOR ROUTINE EVALUATION-RF EXPOSURE EVALUATION

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Applicable Standard

According to RSS-102 § (2.5.2):

2.5.2 Exemption Limits for Routine Evaluation — RF Exposure Evaluation

RF 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, except when the device operates as follows:

- below 20 MHz⁶ 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 22.48/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:

Frequency	Antenna Gain	Turn up Conducted	Turn up	EIRP	EIRP Limit
(MHz)	(dBi)	Power (dBm)	(dBm)	(W)	(W/m^2)
2412-2462	3.12	19.0	22.12	0.163	2.68

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.

So the RF Exposure evaluation can be compliance.

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^{2.} the 2.4G Wi-Fi cannot transmit at the same time with the 5G Wi-Fi.

§15.203 & RSS-Gen §6.8 ANTENNA REQUIREMENT

Applicable Standard

According to § 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine Compliant with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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 Compliant 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.

Antenna Connector Construction

The EUT has an integral antenna arrangement which was permanently attached and the antenna gain is 3.12dBi, fulfill the requirement of this section. Please refer to the EUT photos.

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Туре	Antenna Gain	Impedance
integral	3.12dBi	50 Ω

Result: Pass

§ 15.207 (a) & RSS-GEN §8.8 AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC § 15.207 (a) & RSS-GEN §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.

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For an EUT that connects to the AC power lines indirectly, through another device, the requirement for Compliant 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 Lines Conducted Emission Limits						
Frequency range Conducted limit (dBµV)						
(MHz)	Quasi-Peak	Average				
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹				
0.5 - 5	56	46				
5 – 30	60	50				

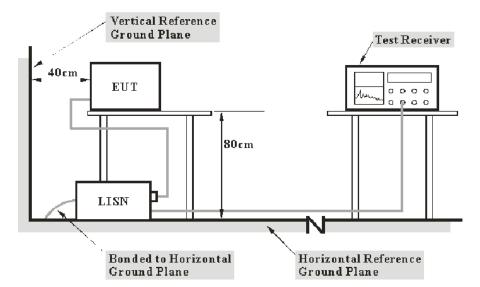
Note 1: The level decreases linearly with the logarithm of the frequency.

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 Compliant 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 Compliant 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.

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EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 & RSS-247/RSS-Gen limits.

The spacing between the peripherals was 10 cm.

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

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

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

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Transd Factor = LISN VDF + Cable Loss

The "Over limit" column of the following data tables indicates the degree of Compliant with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit Level = Read Level + Factor

Test Data

Environmental Conditions

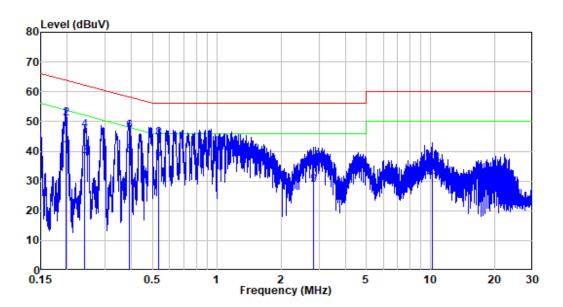
Temperature:	20 °C
Relative Humidity:	74 %
ATM Pressure:	101.0 kPa

The testing was performed by Jie Chen on 2022-12-16.

EUT operation mode: Transmitting (worst case is 802.11b mode, high channel)

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AC 120V/60 Hz, Line



Site : Shielding Room

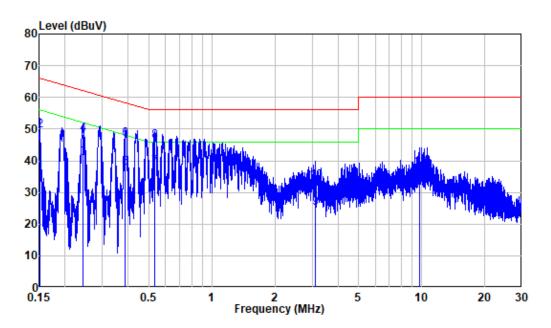
Condition: Line

Job No. : SZNS221014-47078E-RF

Mode : 2.4G WIFI Power : AC 120V 60Hz

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.196	9.80	30.38	40.18	53.77	-13.59	Average
2	0.196	9.80	41.23	51.03	63.77	-12.74	QP
3	0.241	9.80	28.43	38.23	52.05	-13.82	Average
4	0.241	9.80	37.16	46.96	62.05	-15.09	QP
5	0.389	9.80	28.89	38.69	48.10	-9.41	Average
6	0.389	9.80	37.03	46.83	58.10	-11.27	QP
7	0.533	9.81	26.05	35.86	46.00	-10.14	Average
8	0.533	9.81	34.68	44.49	56.00	-11.51	QP
9	2.830	9.83	18.90	28.73	46.00	-17.27	Average
10	2.830	9.83	26.69	36.52	56.00	-19.48	QP
11	10.159	9.90	19.79	29.69	50.00	-20.31	Average
12	10.159	9.90	26.13	36.03	60.00	-23.97	QP

AC 120V/60 Hz, Neutral



Site : Shielding Room

Condition: Neutral

Job No. : SZNS221014-47078E-RF

Mode : 2.4G WIFI Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.151	9.80	26.64	36.44	55.93	-19.49	Average
2	0.151	9.80	39.60	49.40	65.93	-16.53	QP
3	0.243	9.80	30.86	40.66	51.99	-11.33	Average
4	0.243	9.80	38.42	48.22	61.99	-13.77	QP
5	0.386	9.80	28.08	37.88	48.14	-10.26	Average
6	0.386	9.80	37.05	46.85	58.14	-11.29	QP
7	0.535	9.81	28.23	38.04	46.00	-7.96	Average
8	0.535	9.81	36.52	46.33	56.00	-9.67	QP
9	3.123	9.83	15.31	25.14	46.00	-20.86	Average
10	3.123	9.83	23.64	33.47	56.00	-22.53	QP
11	9.724	10.00	20.39	30.39	50.00	-19.61	Average
12	9.724	10.00	27.77	37.77	60.00	-22.23	QP

§15.205, §15.209, §15.247(d) & RSS-GEN § 8.10 & RSS-247 § 5.5 SPURIOUS EMISSIONS

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Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

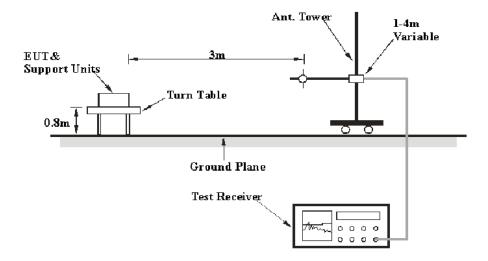
According to RSS-GEN § 8.10 & RSS-247 § 5.5

Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:(a) The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD).(b) Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.(c) Unwanted emissions that do not fall within the restricted frequency bands listed in table 5 and table 6.

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 Compliant 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.

EUT Setup

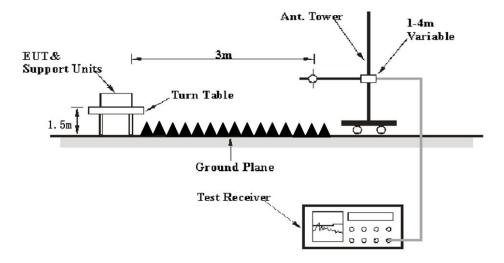
Below 1 GHz:



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Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013 & RSS-Gen. The specification used was the FCC 15.209, and FCC 15.247 & 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.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz Note 1	/	Average
	1MHz	>1/T Note 2	/	Average

Note 1: when duty cycle is no less than 98% Note 2: when duty cycle is less than 98%

Test Procedure

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

Report No.: SZNS221014-47078E-RF

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "Over Limit/Margin" column of the following data tables indicates the degree of Compliant with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	24~28.8℃
Relative Humidity:	52~56 %
ATM Pressure:	101.0 kPa

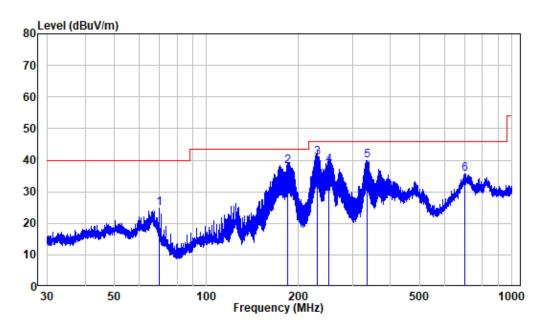
The testing was performed by Jason Liu on 2022-12-19 for below 1GHz and Jimi Zheng on 2022-12-27 for above 1GHz.

EUT operation mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case of X-axes orientation was recorded)

30 MHz~1 GHz: (worst case is 802.11b mode, low channel)

Note: When the test result of Peak was more than 6dB below the limit of QP, just the Peak value was recorded.

Horizontal



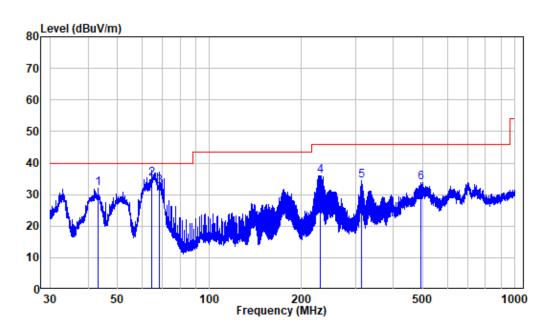
Site : chamber

Condition: 3m HORIZONTAL

Job No. : SZNS221014-47078E-RF Test Mode: 2.4G WIFI transmitting

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	69.876	-14.72	39.40	24.68	40.00	-15.32	Peak
2	184.086	-12.28	50.19	37.91	43.50	-5.59	QP
3	229.897	-11.11	51.90	40.79	46.00	-5.21	QP
4	251.401	-10.71	49.10	38.39	46.00	-7.61	QP
5	335.153	-7.60	47.47	39.87	46.00	-6.13	Peak
6	701.761	-1.57	37.19	35.62	46.00	-10.38	Peak

Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : SZNS221014-47078E-RF Test Mode: 2.4G WIFI transmitting

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	43.183	-9.94	41.93	31.99	40.00	-8.01	Peak
2	64.773	-12.43	47.40	34.97	40.00	-5.03	QP
3	68.571	-14.10	46.70	32.60	40.00	-7.40	QP
4	231.109	-11.08	47.11	36.03	46.00	-9.97	Peak
5	315.066	-8.72	43.13	34.41	46.00	-11.59	Peak
6	490.745	-4.64	38.59	33.95	46.00	-12.05	Peak

Report No.: SZNS221014-47078E-RF

1 GHz-25 GHz:

Wi-Fi:

	Receiver		Turntable Rx Antenna			F .	Absolute		3.5
Frequency (MHz)	Reading (dBµV)	PK/Ave	Angle Degree	Height (m)		Factor (dB/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11b									
Low Channel(2412MHz)									
2310	60.76	PK	328	1.1	Н	-7.24	53.52	74	-20.48
2310	49.03	AV	328	1.1	Н	-7.24	41.79	54	-12.21
2310	61.16	PK	311	1.4	V	-7.24	53.92	74	-20.08
2310	48.51	AV	311	1.4	V	-7.24	41.27	54	-12.73
2390	63.82	PK	125	2.3	Н	-7.22	56.60	74	-17.40
2390	51.97	AV	125	2.3	Н	-7.22	44.75	54	-9.25
2390	63.02	PK	244	2.5	V	-7.22	55.80	74	-18.20
2390	52.54	AV	244	2.5	V	-7.22	45.32	54	-8.68
4824	59.13	PK	207	2.2	Н	-3.52	55.61	74	-18.39
4824	43.79	AV	207	2.2	Н	-3.52	40.27	54	-13.73
4824	57.98	PK	149	1.5	V	-3.52	54.46	74	-19.54
4824	42.83	AV	149	1.5	V (2.427) (-3.52	39.31	54	-14.69
			Middle (ì		T		10.16
4874	58.96	PK	66	1.9	Н	-3.42	55.54	74	-18.46
4874	43.97	AV	66	1.9	Н	-3.42	40.55	54	-13.45
4874	58.10	PK	246	2.1	V	-3.42	54.68	74	-19.32
4874	43.10	AV	246	2.1	V	-3.42	39.68	54	-14.32
			High Cl	hannel(2	2462 MF	Hz)			
2483.5	65.50	PK	326	1.5	Н	-7.20	58.3	74	-15.70
2483.5	52.06	AV	326	1.5	Н	-7.20	44.86	54	-9.14
2483.5	65.56	PK	188	1.5	V	-7.20	58.36	74	-15.64
2483.5	52.31	AV	188	1.5	V	-7.20	45.11	54	-8.89
2500	62.13	PK	102	2.1	Н	-7.18	54.95	74	-19.05
2500	50.00	AV	102	2.1	Н	-7.18	42.82	54	-11.18
2500	62.37	PK	267	1.9	V	-7.18	55.19	74	-18.81
2500	49.13	AV	267	1.9	V	-7.18	41.95	54	-12.05
4924	59.10	PK	135	2	Н	-3.16	55.94	74	-18.06
4924	43.98	AV	135	2	Н	-3.16	40.82	54	-13.18
4924	58.06	PK	72	1.6	V	-3.16	54.90	74	-19.10
4924	43.08	AV	72	1.6	V	-3.16	39.92	54	-14.08

Frequency				Rx Antenna		Factor	Absolute	Limit	Margin
(MHz)	Reading (dBµV)	PK/Ave	Angle Degree	Height (m)	Polar (H/V)	(dB/m)	Level (dBµV/m)	(dBµV/m)	(dB)
	802.11g								
Low Channel(2412MHz)									
2310	60.34	PK	303	1.9	Н	-7.24	53.10	74	-20.90
2310	48.88	AV	303	1.9	Н	-7.24	41.64	54	-12.36
2310	60.54	PK	121	1.9	V	-7.24	53.30	74	-20.70
2310	49.09	AV	121	1.9	V	-7.24	41.85	54	-12.15
2390	63.45	PK	260	2.4	Н	-7.22	56.23	74	-17.77
2390	51.94	AV	260	2.4	Н	-7.22	44.72	54	-9.28
2390	64.65	PK	259	1.3	V	-7.22	57.43	74	-16.57
2390	53.53	AV	259	1.3	V	-7.22	46.31	54	-7.69
4824	57.80	PK	319	2.3	Н	-3.52	54.28	74	-19.72
4824	43.82	AV	319	2.3	Н	-3.52	40.30	54	-13.70
4824	57.20	PK	307	1.8	V	-3.52	53.68	74	-20.32
4824	43.07	AV	307	1.8	V	-3.52	39.55	54	-14.45
	T		Middle (· ·	T	T T	
4874	58.37	PK	316	1.8	Н	-3.42	54.95	74	-19.05
4874	44.38	AV	316	1.8	Н	-3.42	40.96	54	-13.04
4874	57.14	PK	126	2.3	V	-3.42	53.72	74	-20.28
4874	43.17	AV	126	2.3	V	-3.42	39.75	54	-14.25
	High Channel(2462 MHz)								
2483.5	65.60	PK	219	2.2	Н	-7.20	58.4	74	-15.60
2483.5	52.06	AV	219	2.2	Н	-7.20	44.86	54	-9.14
2483.5	68.98	PK	160	1.4	V	-7.20	61.78	74	-12.22
2483.5	54.75	AV	160	1.4	V	-7.20	47.55	54	-6.45
2500	62.40	PK	347	2.1	Н	-7.18	55.22	74	-18.78
2500	49.27	AV	347	2.1	Н	-7.18	42.09	54	-11.91
2500	62.75	PK	80	1.7	V	-7.18	55.57	74	-18.43
2500	49.82	AV	80	1.7	V	-7.18	42.64	54	-11.36
4924	57.79	PK	11	2.3	Н	-3.16	54.63	74	-19.37
4924	43.67	AV	11	2.3	Н	-3.16	40.51	54	-13.49
4924	57.02	PK	356	1.1	V	-3.16	53.86	74	-20.14
4924	42.91	AV	356	1.1	V	-3.16	39.75	54	-14.25

Frequency	Receiver		Turntable Rx Antenn		itenna	Factor	Absolute	Limit	Margin
(MHz)	Reading (dBµV)	PK/Ave	Angle Degree	Height (m)	Polar (H/V)	(dB/m)	Level (dBµV/m)	(dBµV/m)	(dB)
	802.11n20								
Low Channel(2412MHz)									
2310	60.79	PK	213	1.6	Н	-7.24	53.55	74	-20.45
2310	48.87	AV	213	1.6	Н	-7.24	41.63	54	-12.37
2310	60.98	PK	339	1.2	V	-7.24	53.74	74	-20.26
2310	49.06	AV	339	1.2	V	-7.24	41.82	54	-12.18
2390	63.82	PK	137	2.1	Н	-7.22	56.60	74	-17.40
2390	52.31	AV	137	2.1	Н	-7.22	45.09	54	-8.91
2390	64.92	PK	305	2.1	V	-7.22	57.70	74	-16.30
2390	53.44	AV	305	2.1	V	-7.22	46.22	54	-7.78
4824	58.06	PK	7	1	Н	-3.52	54.54	74	-19.46
4824	44.14	AV	7	1	Н	-3.52	40.62	54	-13.38
4824	57.26	PK	105	1.1	V	-3.52	53.74	74	-20.26
4824	43.03	AV	105	1.1	V	-3.52	39.51	54	-14.49
	1		Middle (Channel	ì	Hz)		T	
4874	58.19	PK	40	1.1	Н	-3.42	54.77	74	-19.23
4874	43.98	AV	40	1.1	Н	-3.42	40.56	54	-13.44
4874	57.07	PK	43	1.8	V	-3.42	53.65	74	-20.35
4874	42.91	AV	43	1.8	V	-3.42	39.49	54	-14.51
	High Channel(2462 MHz)								
2483.5	65.08	PK	355	1.5	Н	-7.20	57.88	74	-16.12
2483.5	52.72	AV	355	1.5	Н	-7.20	45.52	54	-8.48
2483.5	68.25	PK	140	2	V	-7.20	61.05	74	-12.95
2483.5	54.97	AV	140	2	V	-7.20	47.77	54	-6.23
2500	62.10	PK	94	2.3	Н	-7.18	54.92	74	-19.08
2500	49.91	AV	94	2.3	Н	-7.18	42.73	54	-11.27
2500	62.75	PK	122	1.1	V	-7.18	55.57	74	-18.43
2500	49.95	AV	122	1.1	V	-7.18	42.77	54	-11.23
4924	57.73	PK	304	2.1	Н	-3.16	54.57	74	-19.43
4924	43.66	AV	304	2.1	Н	-3.16	40.50	54	-13.50
4924	57.10	PK	214	1.6	V	-3.16	53.94	74	-20.06
4924	42.93	AV	214	1.6	V	-3.16	39.77	54	-14.23

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor Corrected Amplitude = Corrected Factor + Reading Margin = Corrected. Amplitude - Limit

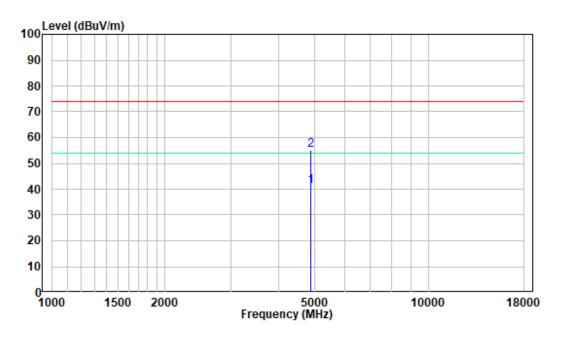
The other spurious emission which is in the noise floor level was not recorded.

Report No.: SZNS221014-47078E-RF

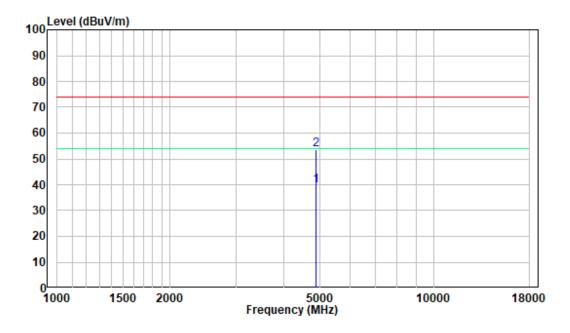
1-18 GHz:

Pre-scan for 802.11g, MiddleChannel

Horizontal



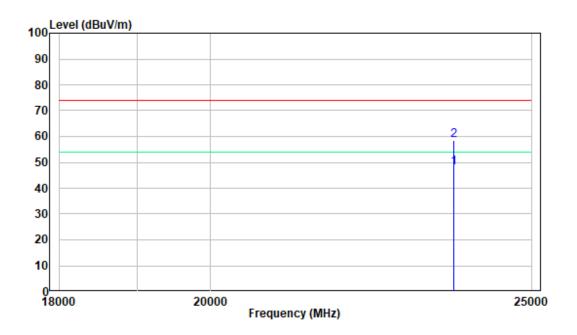
Vertical



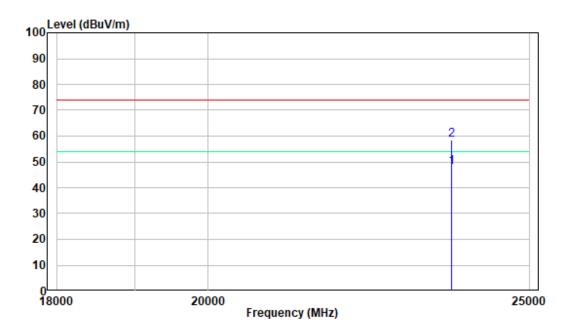
18 -25GHz:

Pre-scan for 802.11g, Middle Channel

Horizontal



Vertical



§15.247 (a)(2) & RSS-Gen§6.7 RSS-247 § 5.2 (a) 99% OCCUPIED BANDWIDTH & 6 dB EMISSION BANDWIDTH

Applicable Standard

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.

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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 "6 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 6 dB below the maximum inband power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

The following conditions shall be observed for measuring the occupied bandwidth and 6 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 / 6 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 / 6 dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

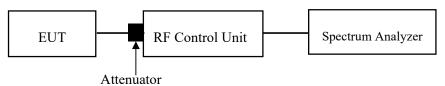
Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in Compliant with the above requirement.

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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).



Test Data

Environmental Conditions

Temperature:	25.5 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Gleen Jiang on 2022-11-01.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix.

§15.247(b)(3) & RSS-247 § 5.4(d) MAXIMUM CONDUCTED OUTPUT POWER

Report No.: SZNS221014-47078E-RF

Applicable Standard

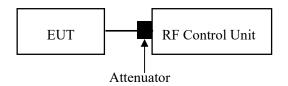
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, Compliant with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted 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.

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 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

As an alternative to a peak power measurement, Compliant can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling 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 transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Note: the RF control unit has a built-in power sensor.

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Test Data

Environmental Conditions

Temperature:	25.5 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

Report No.: SZNS221014-47078E-RF

The testing was performed by Gleen Jiang on 2022-11-01.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix.

§ 15.247(d) & RSS-247 § 5.5 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

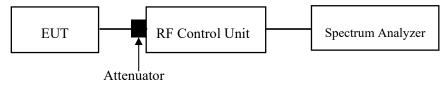
Report No.: SZNS221014-47078E-RF

Applicable Standard

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 Compliant 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)).

Test Procedure

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	25.5 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Gleen Jiang on 2022-11-01.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix.

§15.247(e) & RSS-247 § 5.2 (b) POWER SPECTRAL DENSITY

Applicable Standard

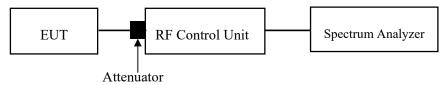
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

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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).

Test Procedure

- a. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate Compliant.
- b. Set the RBW to: 3kHz \le RBW \le 100 kHz.
- c. Set the VBW $\geq 3 \times RBW$.
- d. Set the span to 1.5 times the DTS bandwidth.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.
- j. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	25.5 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Gleen Jiang on 2022-11-01.

EUT operation mode: Transmitting

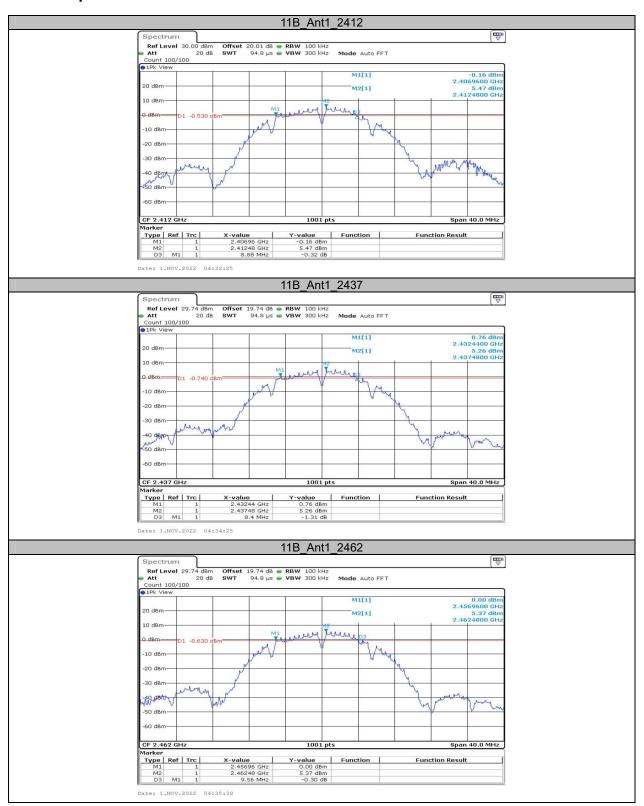
Test Result Compliant. Please refer to the Appendix.

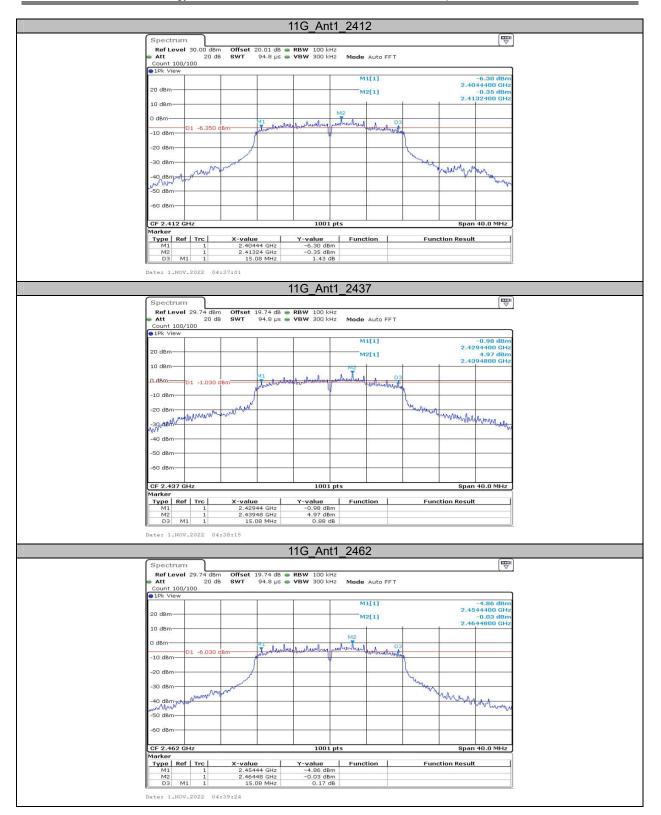
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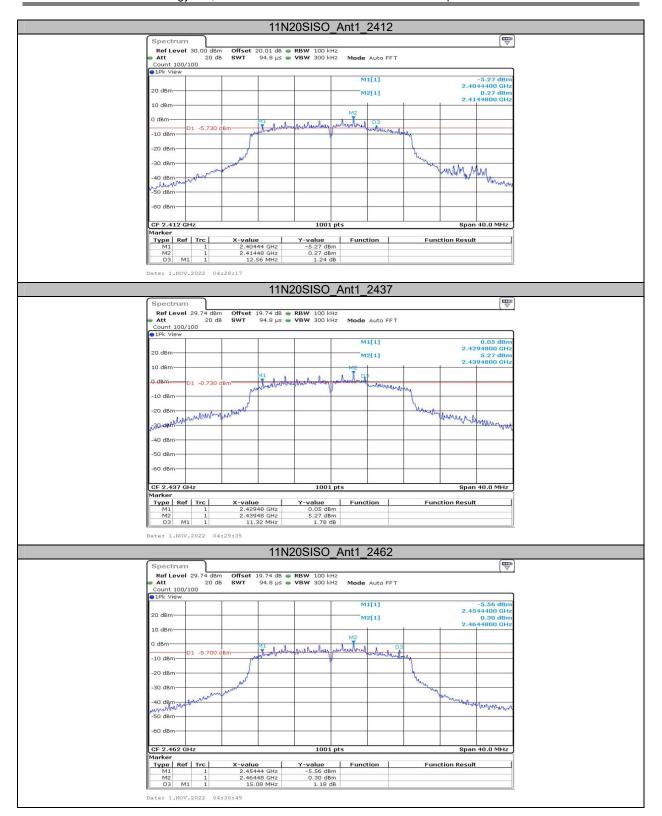
APPENDIX

Appendix A: DTS Bandwidth Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.88	2406.96	2415.84	0.5	PASS
		2437	8.40	2432.44	2440.84	0.5	PASS
		2462	9.56	2456.96	2466.52	0.5	PASS
	Ant1	2412	15.08	2404.44	2419.52	0.5	PASS
11G		2437	15.08	2429.44	2444.52	0.5	PASS
		2462	15.08	2454.44	2469.52	0.5	PASS
	Ant1	2412	12.56	2404.44	2417.00	0.5	PASS
11N20SISO		2437	11.32	2429.48	2440.80	0.5	PASS
		2462	15.08	2454.44	2469.52	0.5	PASS

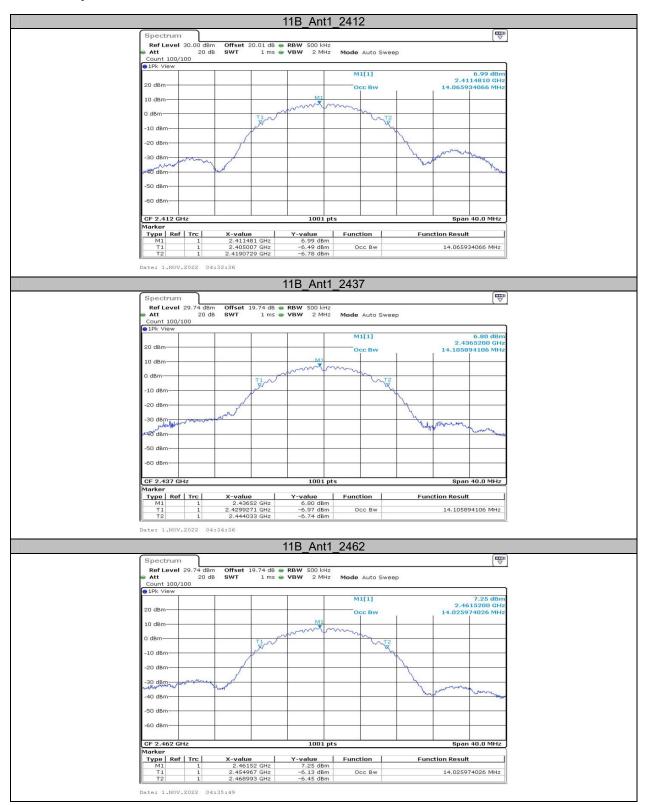




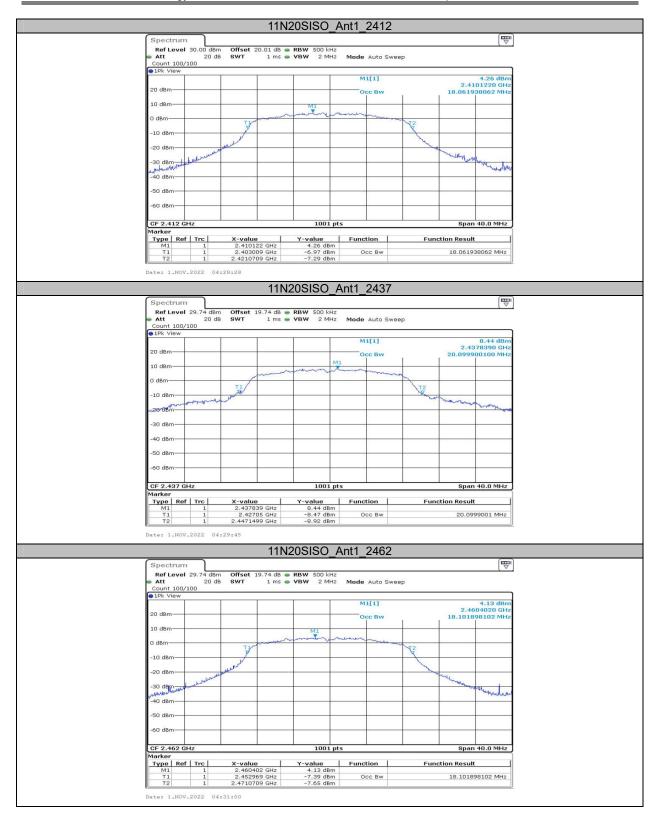


Appendix B: Occupied Channel Bandwidth Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant1	2412	14.066	2405.007	2419.073		
11B		2437	14.106	2429.927	2444.033		
		2462	14.026	2454.967	2468.993		
	Ant1	2412	17.343	2403.129	2420.472		
11G		2437	19.421	2427.290	2446.710		-
		2462	17.383	2453.129	2470.511		-
11N20SISO	Ant1	2412	18.062	2403.009	2421.071		
		2437	20.10	2427.050	2447.150		
		2462	18.102	2452.969	2471.071		

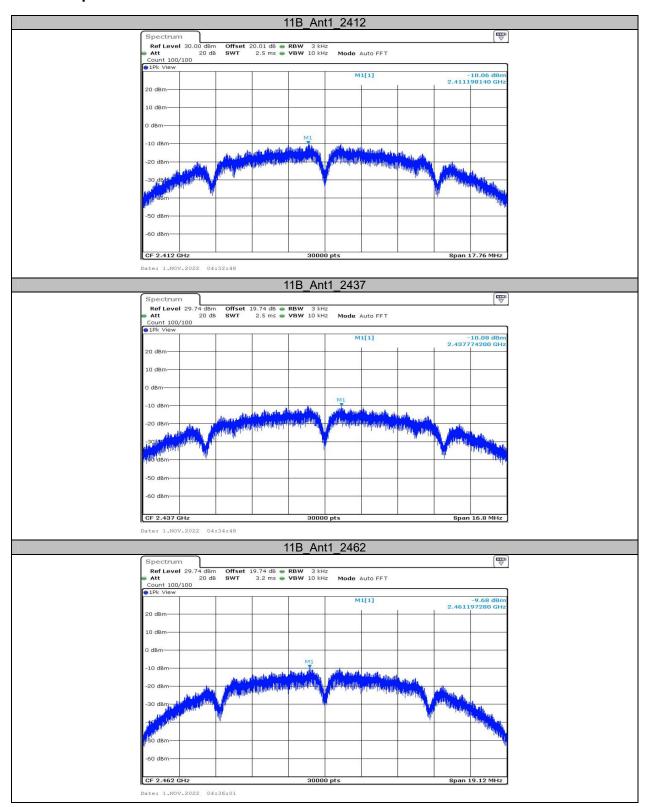


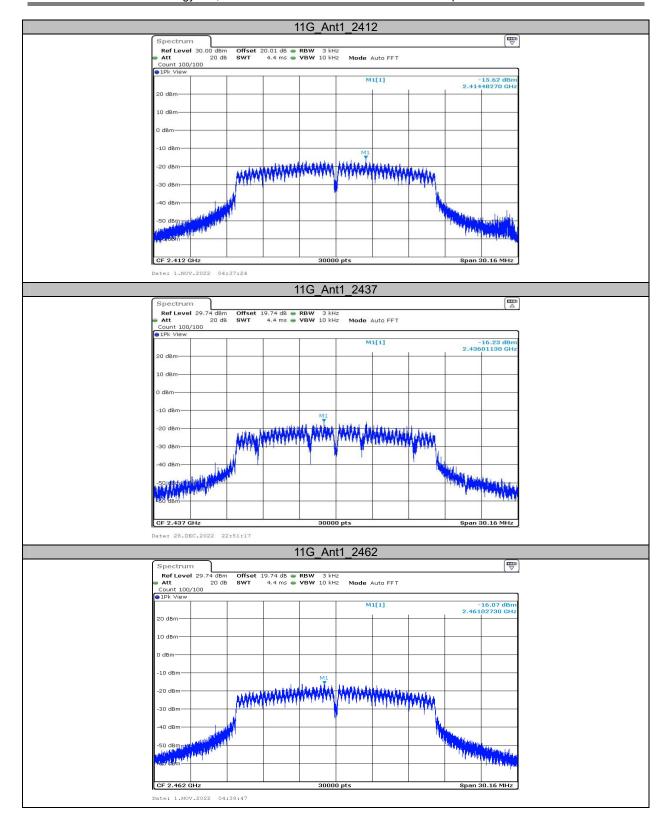


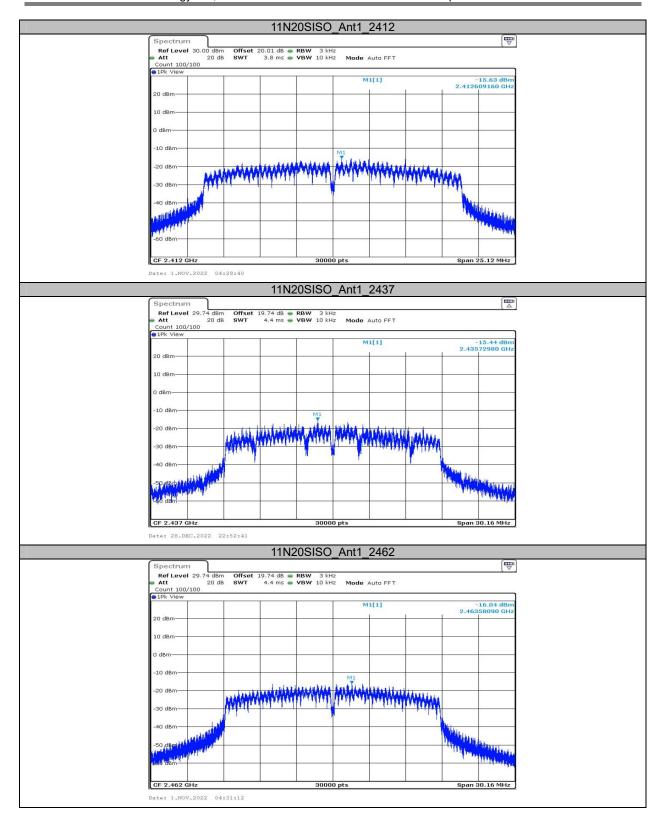


Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict	
	Ant1	2412	18.24	≤30.00	PASS	
11B		2437	18.13	≤30.00	PASS	
		2462	18.52	≤30.00	PASS	
11G	Ant1	2412	17.57	≤30.00	PASS	
		2437	17.43	≤30.00	PASS	
		2462	17.50	≤30.00	PASS	
11N20SISO	Ant1	2412	17.73	≤30.00	PASS	
		2437	17.89	≤30.00	PASS	
		2462	17.71	≤30.00	PASS	
Note: antenna gain=3.12dBi, the maximum EIRP=21.64dBm<36dBm						

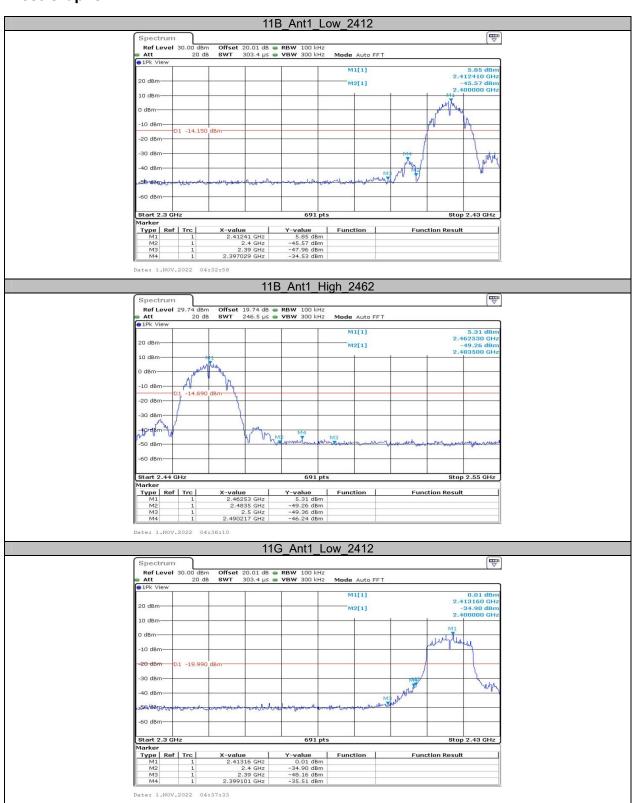
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.06	≤8.00	PASS
		2437	-10.08	≤8.00	PASS
		2462	-9.68	≤8.00	PASS
11G	Ant1	2412	-15.62	≤8.00	PASS
		2437	-16.23	≤8.00	PASS
		2462	-16.07	≤8.00	PASS
11N20SISO	Ant1	2412	-15.63	≤8.00	PASS
		2437	-15.44	≤8.00	PASS
		2462	-16.04	≤8.00	PASS

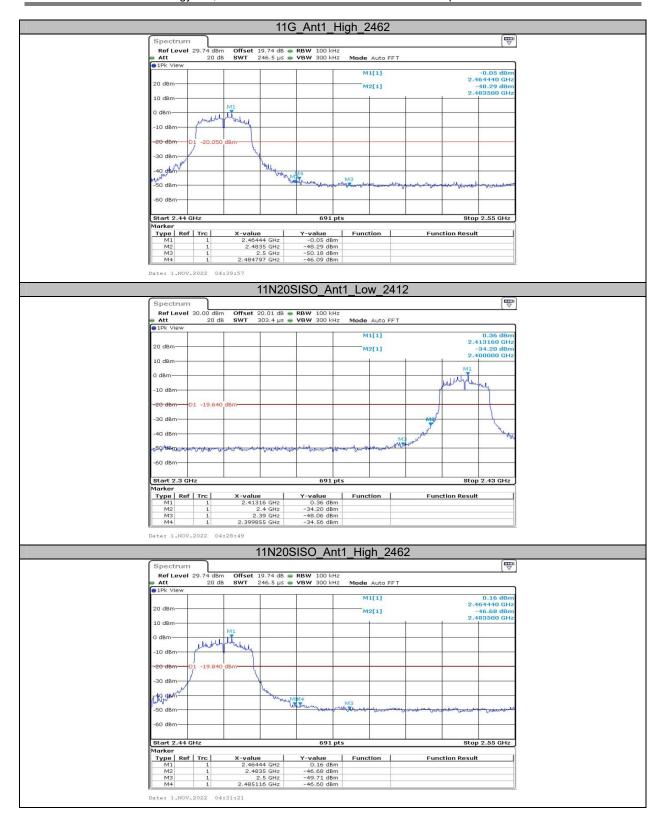




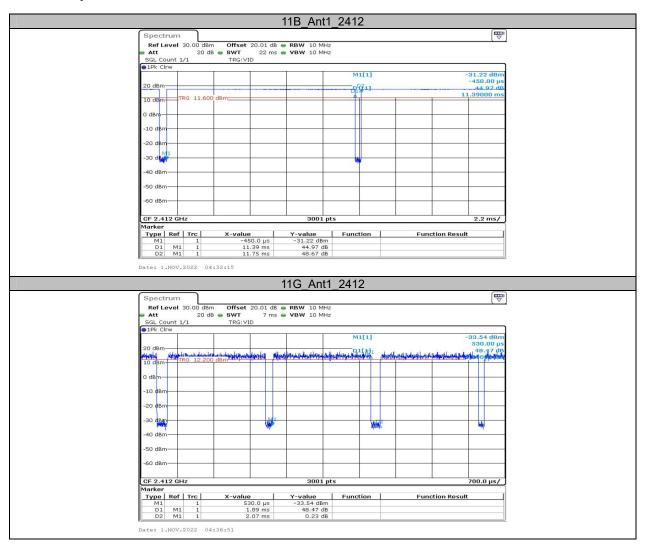


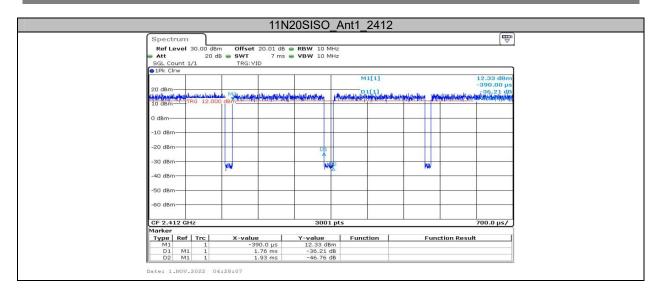
Appendix E: Band edge measurements Test Graphs





Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	11.39	11.75	96.94
11G	Ant1	2412	1.89	2.07	91.30
11N20SISO	Ant1	2412	1.76	1.93	91.19





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