



TEST REPORT

Applicant Name: Vont Innovations, Inc.

Address: 30 N Gould St Ste 2819, Sheridan, WY 82801, United States

Report Number: BJ220303-07075E-RF FCC ID: 2A3GA-VNTSSC01 IC: 27837-VNTSSC01

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: **VONT Cam** Model No.: VNT-SSC01 Date Received: 2022/03/03

Date of Test: 2022/03/08~2022/03/10

Report Date: 2022/03/21

Test Result: Pass*

Prepared and Checked By:

Approved By:

Candy, Ci

Black Ding

Bluck Mr

Candy Li

EMC Engineer EMC Engineer

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

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

Shenzhen Accurate Technology Co., Ltd.

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

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

TABLE OF CONTENTS

GENERAL INFORMATION	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
Objective	
TEST METHODOLOGY	
Measurement Uncertainty	
SYSTEM TEST CONFIGURATION	
DESCRIPTION OF TEST CONFIGURATION	6
EQUIPMENT MODIFICATIONS	
EUT Exercise Software	6
EXTERNAL I/O CABLE	
BLOCK DIAGRAM OF TEST SETUP	
SUMMARY OF TEST RESULTS	8
TEST EQUIPMENT LIST	
FCC §15.247 (I) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)	
APPLICABLE STANDARD	
RESULT	
RSS-102 § 2.5.2 –EXEMPTION LIMITS FOR ROUTINE EVALUATION-RF EXPOSURE EVALUATION	
APPLICABLE STANDARD	
RESULT	
FCC §15.203 & RSS-GEN §6.8 ANTENNA REQUIREMENT	12
APPLICABLE STANDARD	
ANTENNA CONNECTOR CONSTRUCTION	13
FCC §15.207 (A) & RSS-GEN §8.8 AC LINE CONDUCTED EMISSIONS	14
APPLICABLE STANDARD	14
EUT SETUP	
EMI TEST RECEIVER SETUP TEST PROCEDURE	
CORRECTED FACTOR & MARGIN CALCULATION	
TEST DATA	
FCC \$15.205, \$15.209, \$15.247(D) & RSS-GEN \$ 8.10 & RSS-247 \$ 5.5 SPURIOUS EMISSIONS	19
APPLICABLE STANDARD	
EUT SETUP	
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	20
TEST PROCEDURE	
CORRECTED AMPLITUDE & MARGIN CALCULATION	
TEST DATA	
FCC §15.247 (A)(2) & RSS-GEN§6.7 RSS-247 § 5.2 (A) 99% OCCUPIED BANDWIDTH & 6 DB E BANDWIDTH	
Applicable Standard	
TEST PROCEDURE	
TEST DATA	
FCC §15.247(B)(3) & RSS-247 § 5.4(D) MAXIMUM CONDUCTED OUTPUT POWER	30
APPLICABLE STANDARD	
TEST PROCEDURE	

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
TEST DATA	
FCC §15.247(D) & RSS-247 § 5.5 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE	32
APPLICABLE STANDARD	
Test Procedure	32
TEST DATA	32
FCC §15.247(E) & RSS-247 § 5.2 (B) POWER SPECTRAL DENSITY	33
APPLICABLE STANDARD	
TEST PROCEDURE	33
TEST DATA	34
APPENDIX WI-FI	35
APPENDIX A: 6DB EMISSION BANDWIDTH	35
APPENDIX B: OCCUPIED CHANNEL BANDWIDTH	40
APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER	45
APPENDIX D: POWER SPECTRAL DENSITY	46
APPENDIX E: BAND EDGE MEASUREMENTS	51
APPENDIX F: DUTY CYCLE	54

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	VONT Cam
Tested Model	VNT-SSC01
HVIN	VNT-SSC01
FVIN	VNT-SSC01
Frequency Range	2.4G Wi-Fi :2412-2462MHz
Maximum Conducted Peak Output Power	Wi-Fi:16.65dBm(802.11b), 15.71dBm(802.11g), 14.77dBm(802.11n-HT20)
Modulation Technique	Wi-Fi: DSSS, OFDM
Antenna Specification*	Internal Antenna: 2.7dBi (It is provided by the applicant)
Voltage Range	DC 5V from adapter
Sample serial number	BJ220303-07075E-RF-S1 (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter 1 Information	Model: KA06E-0501000US Input: 100-240V~, 50/60Hz 0.25A Output: DC 5V, 1A

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 compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

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

Para	meter	Uncertainty
Occupied Char	nnel Bandwidth	5%
RF output pov	wer, conducted	0.73dB
Unwanted Emis	ssion, conducted	1.6dB
AC Power Lines Conducted Emissions		2.72dB
F	30MHz - 1GHz	4.28dB
Emissions, Radiated	1GHz - 18GHz	4.98dB
Radiated	18GHz - 26.5GHz	5.06dB
Temperature		1°C
Humidity		6%
Supply	voltages	0.4%

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.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel List

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	/	/

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

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	1 Mbps	Default	Default	Default	
802.11g	6 Mbps	Default	Default	Default	
802.11n-HT20	MCS0	Default	Default	Default	

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

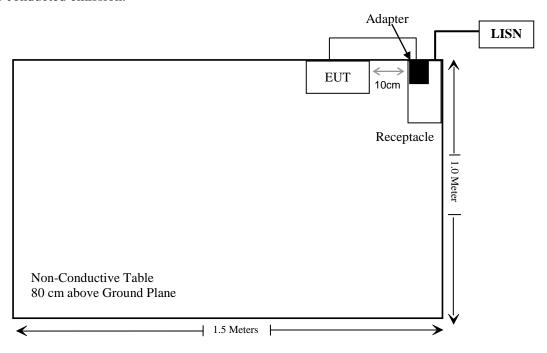
External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielding Detachable USB Cable	1.7	EUT	Adapter

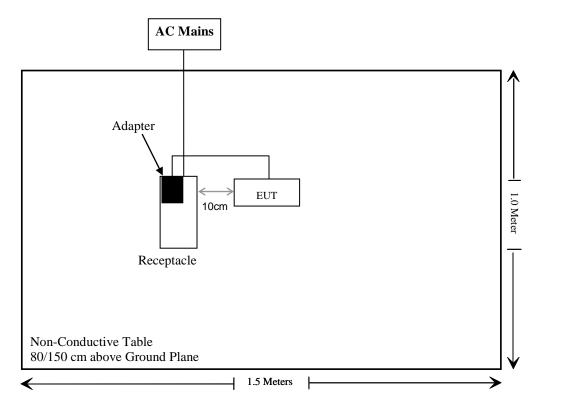
[&]quot;MobaXterm" * was used to the Wi-Fi test.

Block Diagram of Test Setup

For conducted emission:



For Radiated emission:



SUMMARY OF TEST RESULTS

FCC Rules	ISEDC Rules	Description of Test	Result
§15.247 (i), §2.1091	RSS-102 § 2.5.2	Maximum Permissible Exposure (MPE)& 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

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
		Conducted Emiss	ions Test		
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13
	Conducted E	mission Test Soft	ware: e3 19821b (V9)	
		Radiated Emissi	ons Test		
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
Quinstar	Amplifier	QLW- 18405536-J0	15964001002	2021/11/11	2022/11/10
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
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
	Radiated En	nission Test Softv	ware: e3 19821b (V	V9)	
		RF Conducted	d Test		
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/13	2022/12/12
Rohde & Schwarz	Open Switch and Control Unit	OSP120 + OSP-B157	101244 + 100866	2021/12/13	2022/12/12
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.32	RF-02	Each	time

^{*} 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).

Report No.: BJ220303-07075E-RF

FCC §15.247 (i) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

	Limits for General Population/Uncontrolled Exposure						
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (Minutes)			
0.3-1.34	614	1.63	*(100)	30			
1.34-30	824/f	2.19/f	$*(180/f^2)$	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

Result

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

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)

Mode	Frequency	Antenna Gain		Tune up conducted power		Evaluation Power Distance Density		MPE Limit
	(MHz)	(dBi)	(numeric)	(dBm)	(mW)	(cm)		(mW/cm ²)
Wi-Fi	2412-2462	2.7	1.86	17.0	50.12	20	0.019	1

Note: 1. the tune up conducted power was declared by the applicant.

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

Result: Compliant

^{* =} Plane-wave equivalent power density

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

Report No.: BJ220303-07075E-RF

Applicable Standard

According to RSS-102 § (2.5.2):

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 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.

Result

Calculated Data:

Worst case for Wi-Fi @ 2412-2462MHz:

The maximum tune-up conducted output power is 17.0 dBm, antenna gain is 2.7dBi. So the maximum e.i.r.p. of the device is 17.0dBm + 2.7dBi = 19.7dBm = 0.093W<2.68 W

The worst case is f = 2412 MHz: The limit is $1.31 \times 10^{-2} f^{0.6834}$ W=2.68W

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

Result: Compliant.

FCC § 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 compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

Report No.: BJ220303-07075E-RF

- 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 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.

Antenna Connector Construction

The EUT has an internal antenna arrangement which was permanently attached and the antenna gain is 2.7 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Туре	Antenna Gain	Impedance	Frequency Range	
PIFA	2.7dBi	50 Ω	2.4-2.5GHz	

Result: Compliant.

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

Report No.: BJ220303-07075E-RF

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.

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.

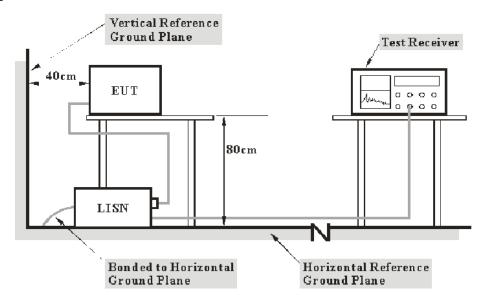
Table 4 - AC Power Lines Conducted Emission Limits							
Frequency range	Conducted I	imit (dBμV)					
(MHz)	Quasi-Peak	Average					
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹					
0.5 - 5	56	46					
5 – 30	60	50					

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 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.

EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 & 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 factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Report No.: BJ220303-07075E-RF

Factor = LISN VDF + Cable Loss

The "Over limit" column of the following data tables indicates the degree of compliance 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

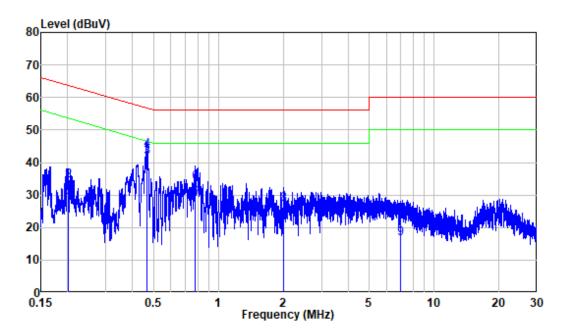
Environmental Conditions

Temperature:	23 °C
Relative Humidity:	53 %
ATM Pressure:	101.2 kPa

The testing was performed by Caro Hu on 2022-03-10.

EUT operation mode: Transmitting (Wi-Fi 802.11b mode, High channel worst case)

AC 120V/60 Hz, Line



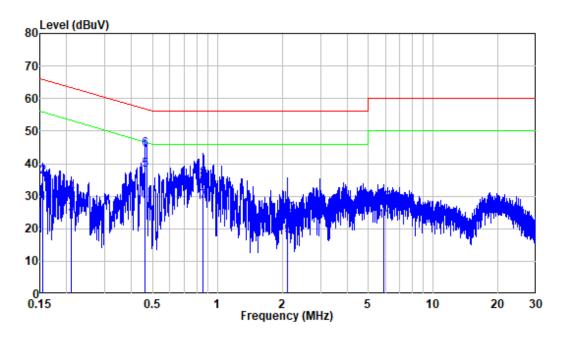
Site : Shielding Room

Condition: Line

Power : AC 120V 60Hz Mode : Transmitting Model : VNT-SSC01

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.200	9.80	17.74	27.54	53.60	-26.06	Average
2	0.200	9.80	24.66	34.46	63.60	-29.14	QP
3	0.464	9.80	31.90	41.70	46.62	-4.92	Average
4	0.464	9.80	33.91	43.71	56.62	-12.91	QP
5	0.778	9.81	19.23	29.04	46.00	-16.96	Average
6	0.778	9.81	23.97	33.78	56.00	-22.22	QP
7	2.000	9.82	10.59	20.41	46.00	-25.59	Average
8	2.000	9.82	17.49	27.31	56.00	-28.69	QP
9	7.002	9.87	6.81	16.68	50.00	-33.32	Average
10	7.002	9.87	12.96	22.83	60.00	-37.17	QP

AC 120V/60 Hz, Neutral



Site : Shielding Room

Condition: Neutral

Power : AC 120V 60Hz Mode : Transmitting Model : VNT-SSC01

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.155	9.80	17.88	27.68	55.73	-28.05	Average
2	0.155	9.80	26.13	35.93	65.73	-29.80	QP
3	0.209	9.80	14.80	24.60	53.24	-28.64	Average
4	0.209	9.80	21.14	30.94	63.24	-32.30	QP
5	0.462	9.80	28.33	38.13	46.65	-8.52	Average
6	0.462	9.80	34.63	44.43	56.65	-12.22	QP
7	0.860	9.81	18.60	28.41	46.00	-17.59	Average
8	0.860	9.81	25.59	35.40	56.00	-20.60	QP
9	2.106	9.82	7.90	17.72	46.00	-28.28	Average
10	2.106	9.82	14.77	24.59	56.00	-31.41	QP
11	5.879	9.93	12.37	22.30	50.00	-27.70	Average
12	5.879	9.93	17.99	27.92	60.00	-32.08	QP

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

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

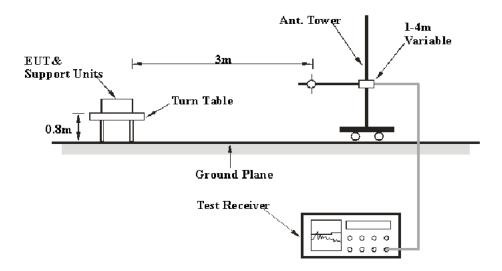
According to RSS-GEN § 8.10 & RSS-247 § 5.5

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.

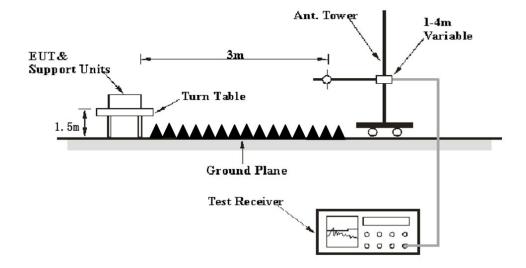
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates 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.

EUT Setup

Below 1 GHz:



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
	1MHz	3 MHz	/	PK
Above 1 GHz	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%

If the maximized peak measured value complies with the limit, then it is unnecessary to perform QP/Avera ge measurement.

Test Procedure

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

Report No.: BJ220303-07075E-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.

Corrected Amplitude & 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 compliance 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

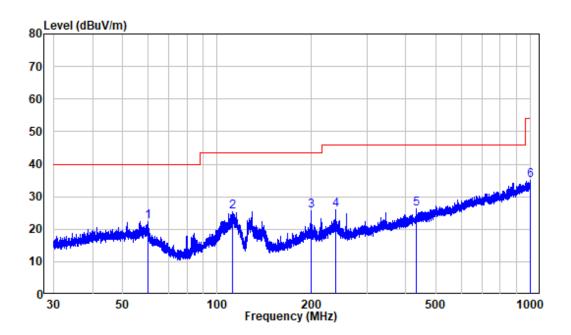
Temperature:	20 ℃
Relative Humidity:	55 %
ATM Pressure:	101.1 kPa

The testing was performed by Chao Mo on 2022-03-08.

EUT operation mode: Transmitting

(Pre-scan in the X,Y and Z axes of orientation, the worst case Y-axis of orientation was recorded)

30 MHz~1 GHz (Wi-Fi 802.11b mode, High channel worst case): Horizontal



Site : chamber

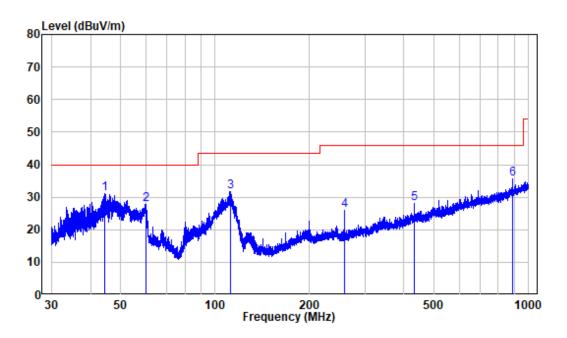
Condition: 3m Horizontal

Job No. : BJ220303-07075E-RF

Mode : 2.4G WIFI Transmitting

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	——dB	
1	59.990	-10.62	32.85	22.23	40.00	-17.77	Peak
2	111.836	-12.22	37.54	25.32	43.50	-18.18	Peak
3	199.986	-11.40	37.08	25.68	43.50	-17.82	Peak
4	238.938	-10.92	36.78	25.86	46.00	-20.14	Peak
5	432.546	-5.74	32.00	26.26	46.00	-19.74	Peak
6	996.500	2.95	31.93	34.88	54.00	-19.12	Peak

Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : BJ220303-07075E-RF Mode : 2.4G WIFI Transmitting

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	44.295	-9.91	41.10	31.19	40.00	-8.81	Peak
2	59.938	-10.60	38.38	27.78	40.00	-12.22	Peak
3	111.591	-12.18	43.89	31.71	43.50	-11.79	Peak
4	259.234	-10.59	36.52	25.93	46.00	-20.07	Peak
5	432.167	-5.75	33.92	28.17	46.00	-17.83	Peak
6	888.388	0.98	34.54	35.52	46.00	-10.48	Peak

1 GHz-25 GHz:

Гизананан		eceiver	Tuumtahla	Rx Ar	itenna	Corrected	Corrected	T ::4	Manain
Frequency (MHz)	Reading	PK/QP/AV	Turntable Degree	Height		Factor	Amplitude	Limit (dBµV/m)	Margin (dB)
(IVIIIE)	(dBµV)	TR/QT/AV	Ü	(m)	(H/V)	(dB/m)	(dBµV/m)	(αΔμ ν / ΙΙΙ)	(uD)
				02.11b I					
2210	54.02	DIZ		hannel (46.70	7.4	27.21
2310 2310	54.02	PK PK	225	2.3	H V	-7.23	46.79	74	-27.21 -27.69
2310	53.54 60.02	PK PK	207 15	1.4	H	-7.23 -7.21	46.31 52.81	74 74	-21.19
2390	58.32	PK	46	2.3	V	-7.21	51.11	74	-22.89
4824	52.21	PK	172	2.4	H	-3.53	48.68	74	-25.32
4824	50.68	PK	283	1.9	V	-3.53	47.15	74	-26.85
			Middle (Channel	(2437]	MHz)			
4874	52.65	PK	222	1.4	Н	-3.42	49.23	74	-24.77
4874	51.67	PK	130	2.2	V	-3.42	48.25	74	-25.75
			High C	hannel ((2462 M	(Hz)			
2483.5	59.96	PK	76	1.2	Н	-7.2	52.76	74	-21.24
2483.5	58.19	PK	256	1.6	V	-7.2	50.99	74	-23.01
2500	53.29	PK	41	1.7	Н	-7.18	46.11	74	-27.89
2500	52.86	PK	134	2	V	-7.18	45.68	74	-28.32
4924	56.26	PK	248	1.2	Н	-3.16	53.10	74	-20.90
4924	54.81	PK	124	2.2	V	-3.16	51.65	74	-22.35
			8	02.11g	Mode			,	
			Low C	hannel (2412 M	Hz)			
2310	54.79	PK	152	1.3	Н	-7.23	47.56	74	-26.44
2310	54.82	PK	326	1.4	V	-7.23	47.59	74	-26.41
2390	68.36	PK	234	1.5	Н	-7.21	61.15	74	-12.85
2390	48.24	AV	234	1.5	Н	-7.21	41.03	54	-12.97
2390	66.77	PK	126	1.6	V	-7.21	59.56	74	-14.44
2390	46.68	AV	126	1.6	V	-7.21	39.47	54	-14.53
4824	50.65	PK	150	1.6	Н	-3.53	47.12	74	-26.88
4824	49.73	PK	139	1.7	V	-3.53	46.20	74	-27.80
			Middle (Channel	(2437]	MHz)			
4874	50.83	PK	214	1.8	Н	-3.42	47.41	74	-26.59
4874	49.99	PK	93	2.4	V	-3.42	46.57	74	-27.43
	- L		High C	hannel ((2462 M	(Hz)		L	
2483.5	73.56	PK	23	1.5	Н	-7.2	66.36	74	-7.64
2483.5	53.64	AV	23	1.5	Н	-7.2	46.44	54	-7.56
2483.5	72.75	PK	156	1.7	V	-7.2	65.55	74	-8.45
2483.5	51.34	AV	156	1.7	V	-7.2	44.14	54	-9.86
2500									
	59.41	PK	158	1.2	Н	-7.18	52.23	74	-21.77
2500	58.69	PK	44	2.3	V	-7.18	51.51	74	-22.49
4924	50.74	PK	354	1.4	Н	-3.16	47.58	74	-26.42
4924	49.87	PK	294	2.4	V	-3.16	46.71	74	-27.29

802.11n20 Mode												
	Low Channel (2412 MHz)											
2310	54.65	PK	39	2.1	Н	-7.23	47.42	74	-26.58			
2310	54.05	PK	18	2	V	-7.23	46.82	74	-27.18			
2390	69.88	PK	146	1.8	Н	-7.21	62.67	74	-11.33			
2390	48.26	AV	146	1.8	Н	-7.21	41.05	54	-12.95			
2390	65.47	PK	238	1.5	V	-7.21	58.26	74	-15.74			
2390	44.34	AV	238	1.5	V	-7.21	37.13	54	-16.87			
4824	50.00	PK	135	1.4	Н	-3.53	46.47	74	-27.53			
4824	49.14	PK	231	1.5	V	-3.53	45.61	74	-28.39			
	Middle Channel (2437 MHz)											
4874	49.67	PK	61	1.8	Н	-3.42	46.25	74	-27.75			
4874	48.93	PK	77	1.5	V	-3.42	45.51	74	-28.49			
			High C	Channel	(2462 N	IHz)						
2483.5	76.23	PK	19	1.6	Н	-7.2	69.03	74	-4.97			
2483.5	55.46	AV	19	1.6	Н	-7.2	48.26	54	-5.74			
2483.5	75.31	PK	173	1.8	V	-7.2	68.11	74	-5.89			
2483.5	54.97	AV	173	1.8	V	-7.2	47.77	54	-6.23			
2500	61.79	PK	126	1.5	Н	-7.18	54.61	74	-19.39			
2500	40.08	AV	126	1.5	Н	-7.18	32.90	54	-21.10			
2500	60.27	PK	85	1.6	V	-7.18	53.09	74	-20.91			
4924	49.91	PK	188	1.2	Н	-3.16	46.75	74	-27.25			
4924	49.28	PK	295	1	V	-3.16	46.12	74	-27.88			

Note:

Factor = Antenna factor (RX) + Cable Loss - Amplifier Factor

Absolute Level (Corrected Amplitude) = Factor + Reading

Margin = Absolute Level (Corrected Amplitude) – Limit

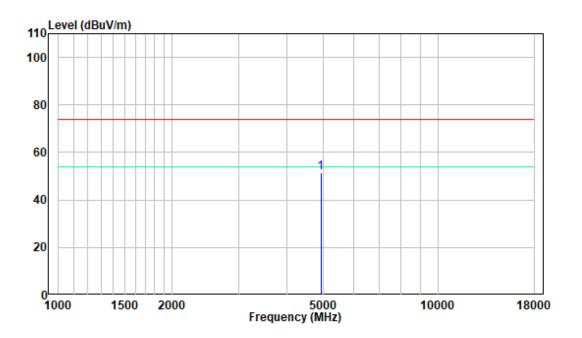
The other spurious emission which is in the noise floor level was not recorded.

For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

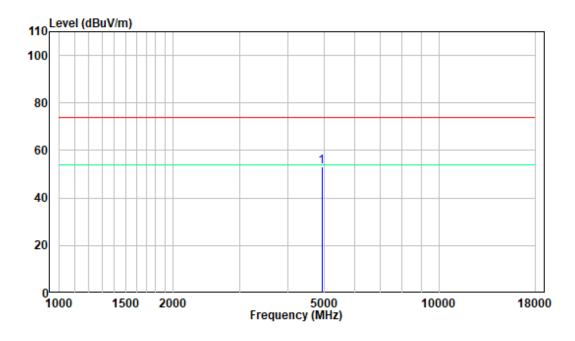
1-18 GHz:

Pre-scan with High channel in 802.11b Mode

Horizontal



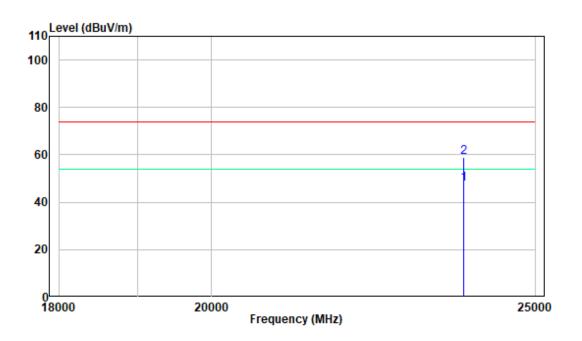
Vertical



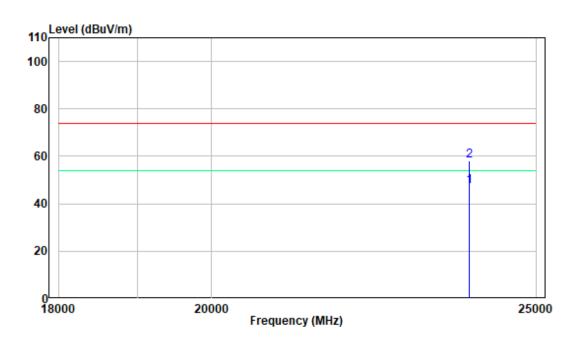
18-25 GHz:

Pre-scan with High channel in 802.11b Mode

Horizontal



Vertical



FCC §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.

Report No.: BJ220303-07075E-RF

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.

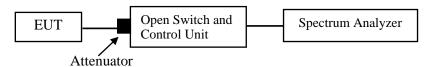
The following conditions shall be observed for measuring the occupied bandwidth and 6 dB bandwidth:

- 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 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).



Test Data

Environmental Conditions

Temperature:	23 ℃	
Relative Humidity:	45 %	
ATM Pressure:	101.1 kPa	

The testing was performed by Key Pei on 2022-03-08.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix Wi-Fi.

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

Report No.: BJ220303-07075E-RF

Applicable Standard

POWER

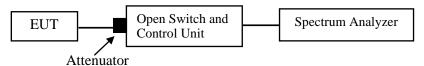
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted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

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, compliance 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.



Test Data

Environmental Conditions

Temperature:	23 °C	
Relative Humidity:	45 %	
ATM Pressure:	101.1 kPa	

The testing was performed by Key Pei on 2022-03-08.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix Wi-Fi.

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

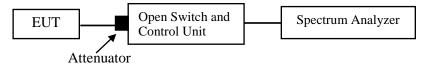
Report No.: BJ220303-07075E-RF

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 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)).

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 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.
- 3. 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.
- 4. 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.
- 5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	23 ℃	
Relative Humidity:	45 %	
ATM Pressure:	101.1 kPa	

The testing was performed by Key Pei on 2022-03-08.

EUT operation mode: Transmitting

Test Result Compliant. Please refer to the Appendix Wi-Fi.

Report No.: BJ220303-07075E-RF

Applicable Standard

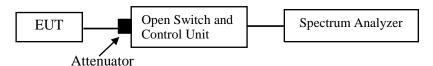
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of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

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

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

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW to: 3kHz < RBW < 100 kHz.
- 3. Set the VBW \geq 3×RBW.
- 4. Set the span to 1.5 times the DTS bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	23 ℃	
Relative Humidity:	45 %	
ATM Pressure:	101.1 kPa	

The testing was performed by Key Pei on 2022-03-08.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix Wi-Fi.

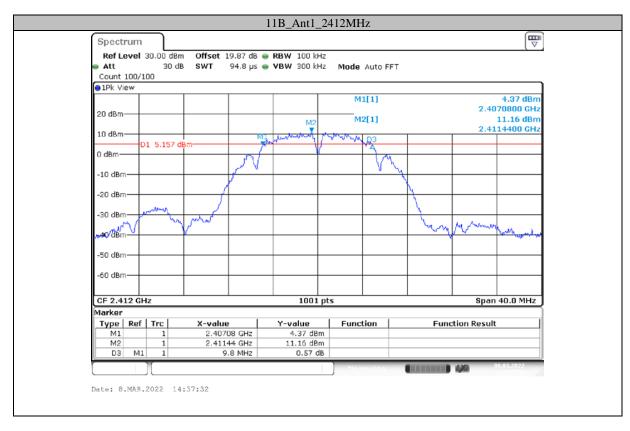
APPENDIX Wi-Fi

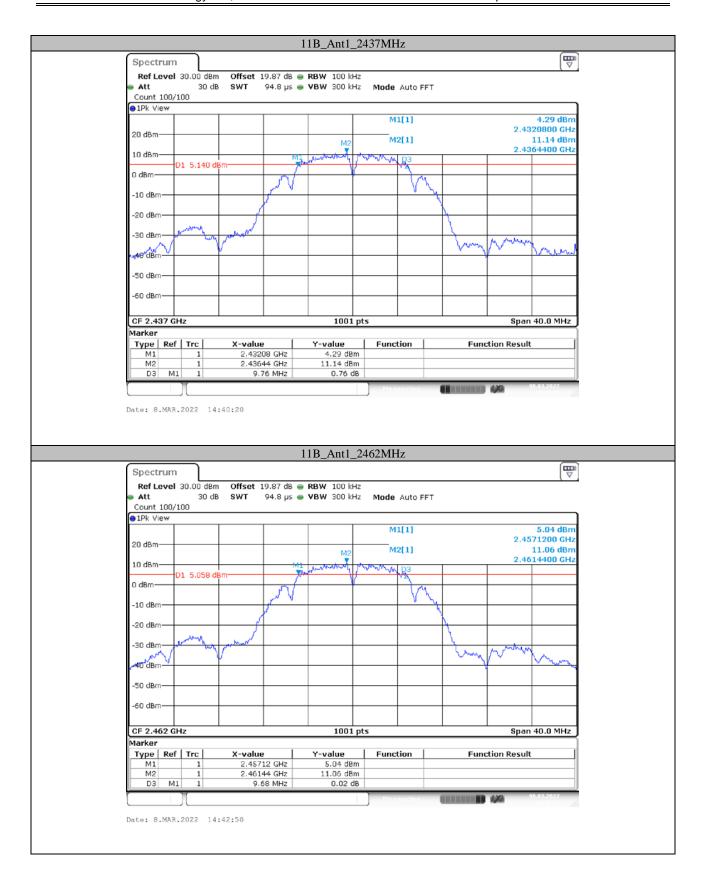
Appendix A: 6dB Emission Bandwidth

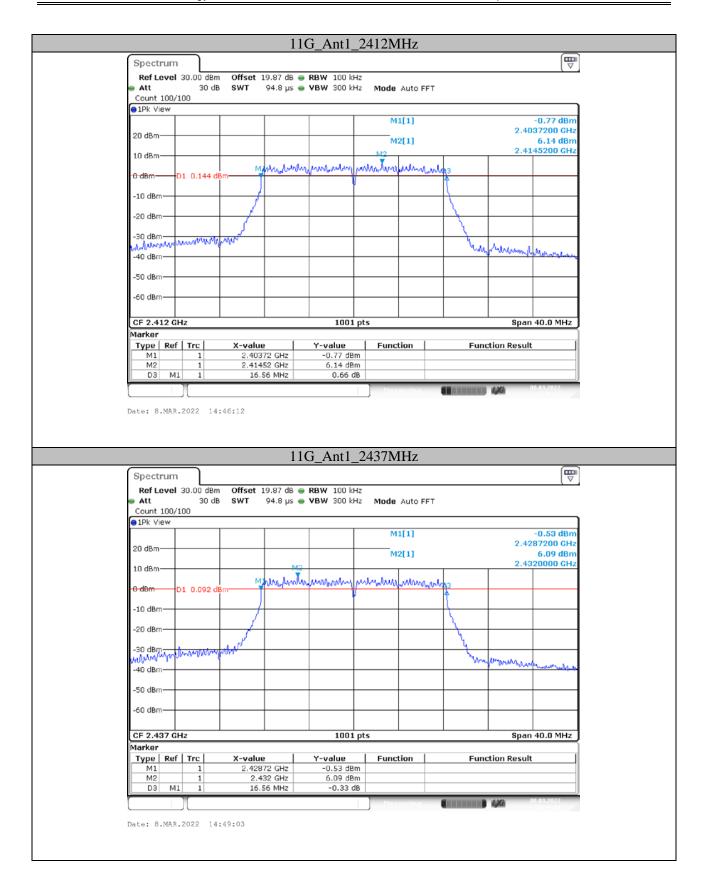
Test Result

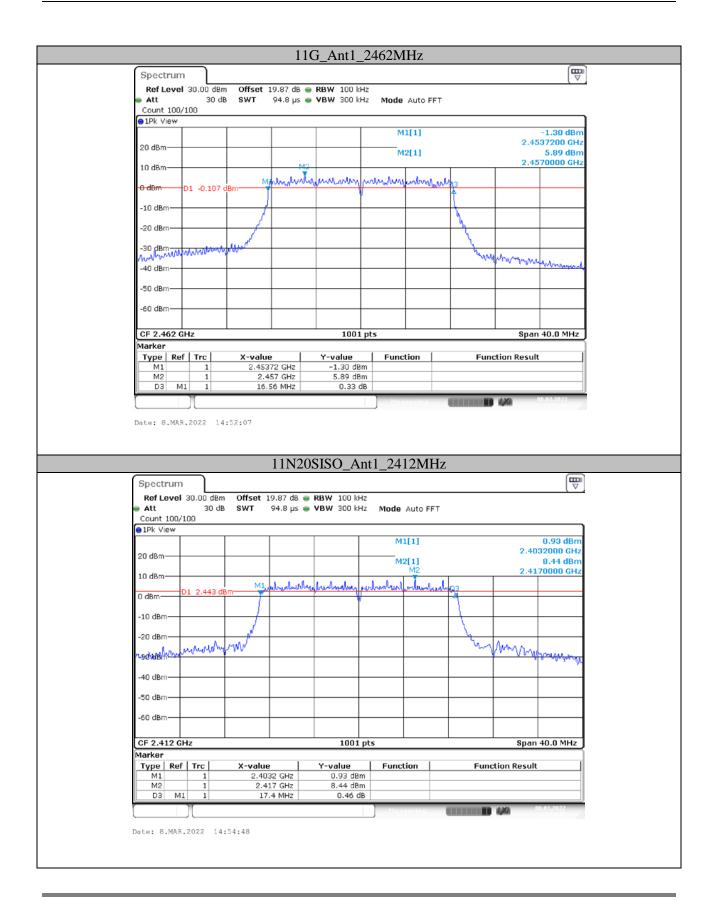
TestMode	Antenna	Channel [MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
11B		2412	9.800	0.5	PASS
	Ant1	2437	9.760	0.5	PASS
		2462	9.680	0.5	PASS
11G	Ant1	2412	16.560	0.5	PASS
		2437	16.560	0.5	PASS
		2462	16.560	0.5	PASS
11N20SISO	Ant1	2412	17.400	0.5	PASS
		2437	17.360	0.5	PASS
		2462	17.160	0.5	PASS

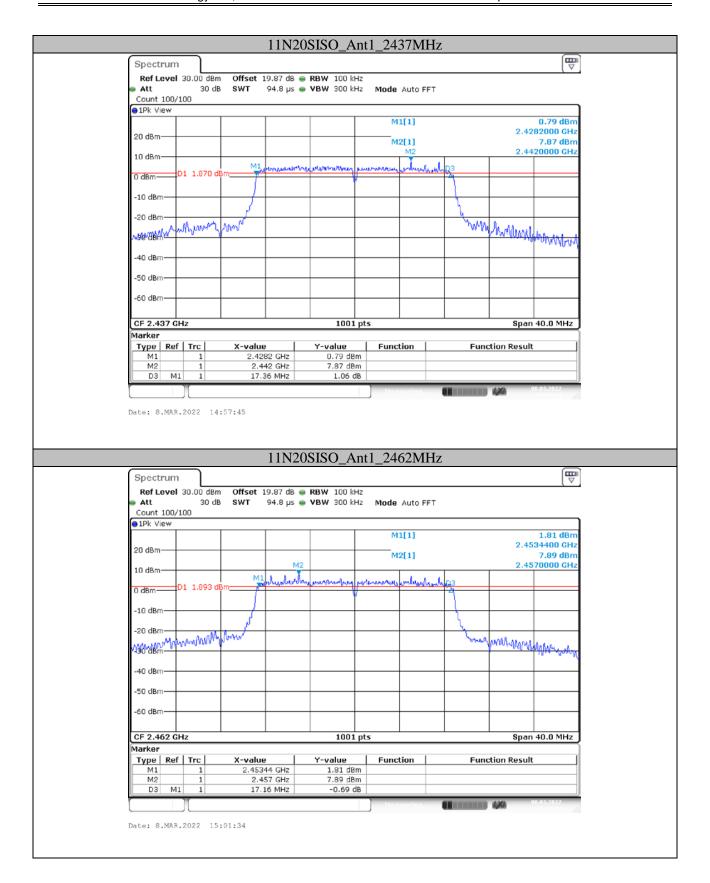
Test Graphs







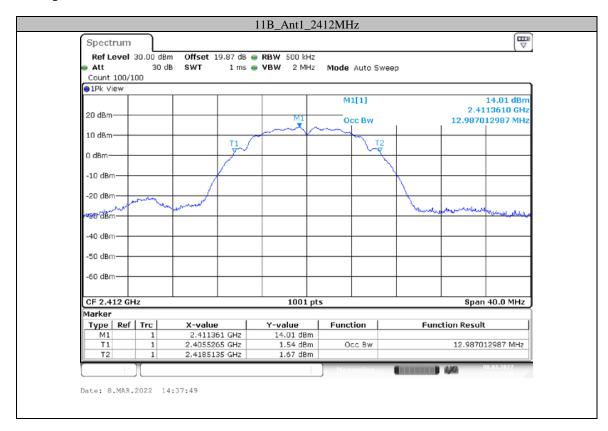


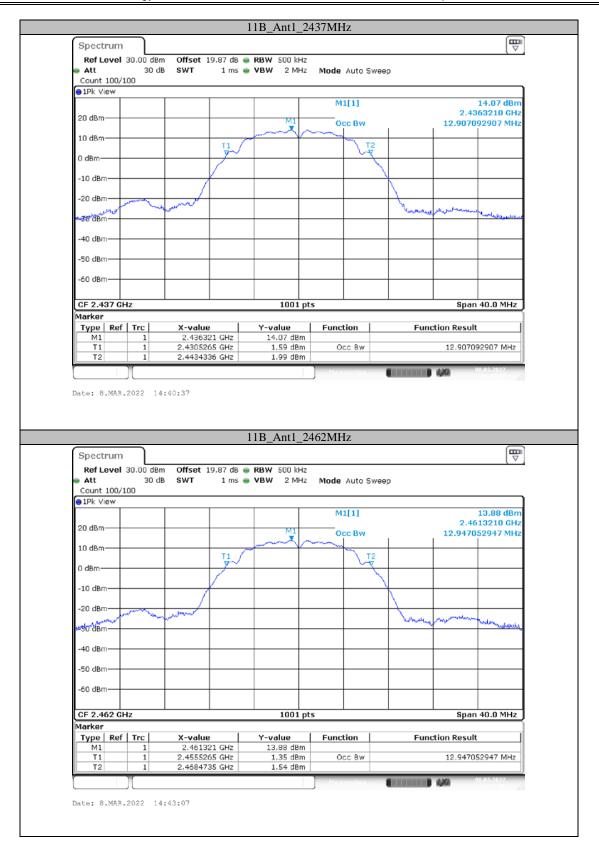


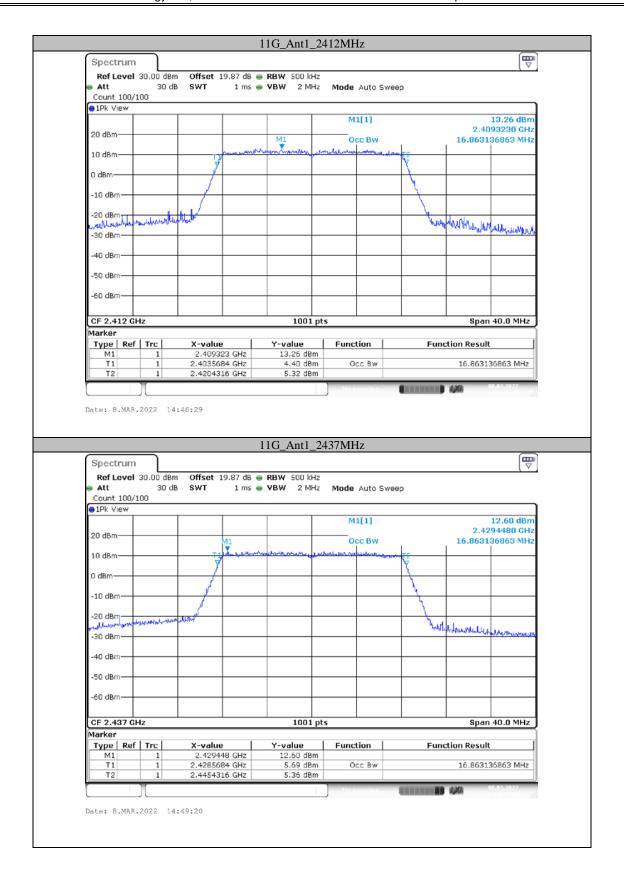
Appendix B: Occupied Channel Bandwidth

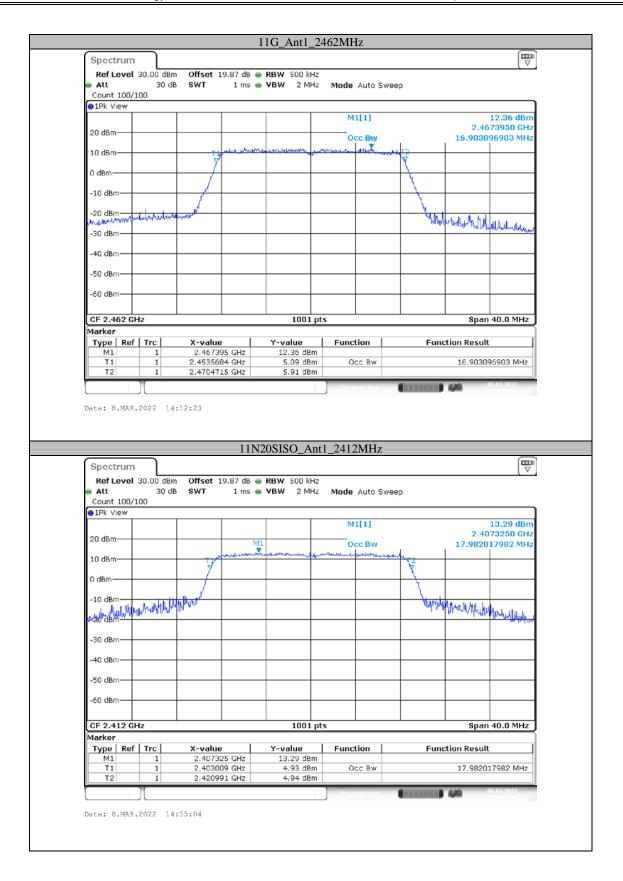
Test Result

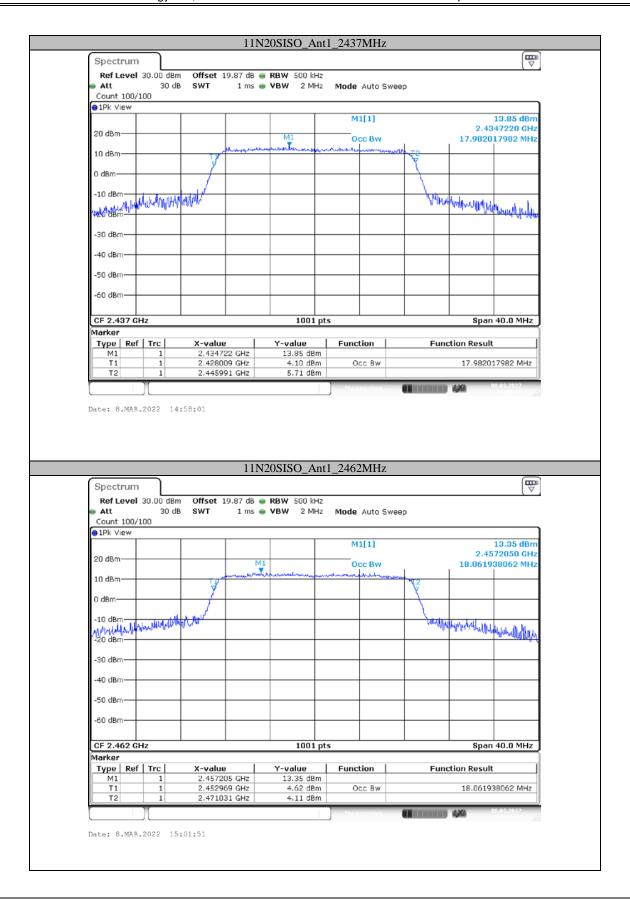
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.987	2405.526	2418.513		PASS
		2437	12.907	2430.526	2443.434		PASS
		2462	12.947	2455.526	2468.474		PASS
11G	Ant1	2412	16.863	2403.568	2420.432		PASS
		2437	16.863	2428.568	2445.432		PASS
		2462	16.903	2453.568	2470.472		PASS
11N20SISO	Ant1	2412	17.982	2403.009	2420.991		PASS
		2437	17.982	2428.009	2445.991		PASS
		2462	18.062	2452.969	2471.031		PASS











Appendix C: Maximum conducted output power

Test Result

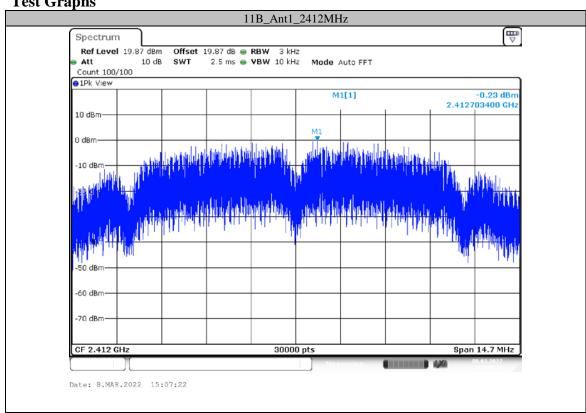
resuit						
Test Mode	Antenna	Channel [MHz]	Peak Power Result [dBm]	Limit [dBm]	Verdict	
11B	Ant1	2412	16.20	<=30	PASS	
		2437	16.59	<=30	PASS	
		2462	16.65	<=30	PASS	
11G	Ant1	2412	15.71	<=30	PASS	
		2437	15.67	<=30	PASS	
		2462	15.65	<=30	PASS	
11N20SISO	Ant1	2412	14.77	<=30	PASS	
		2437	14.56	<=30	PASS	
		2462	14.61	<=30	PASS	

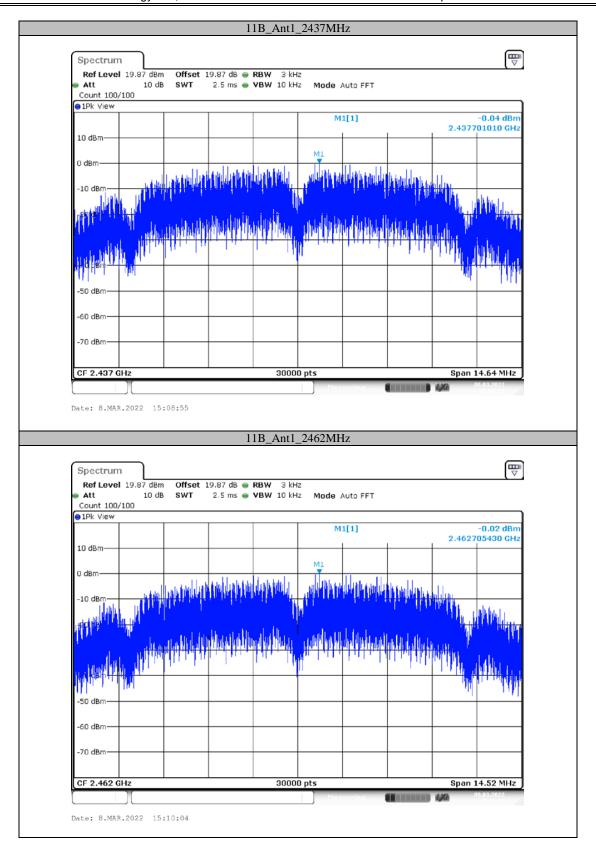
Note: The maximum EIRP is 16.65dBm+2.7dBi=19.35dBm<36dBm, so it's compliance with ISEDC EIRP limit.

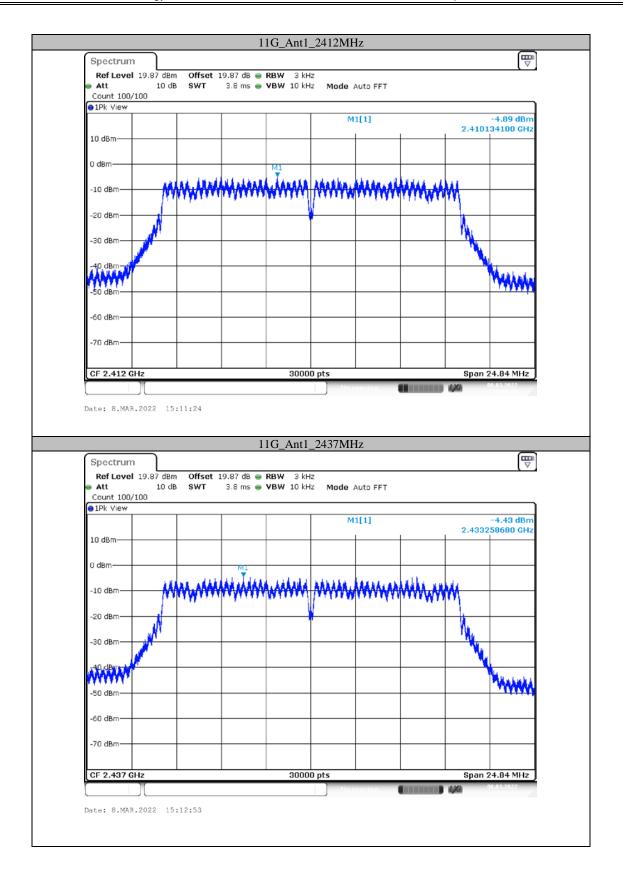
Appendix D: Power spectral density

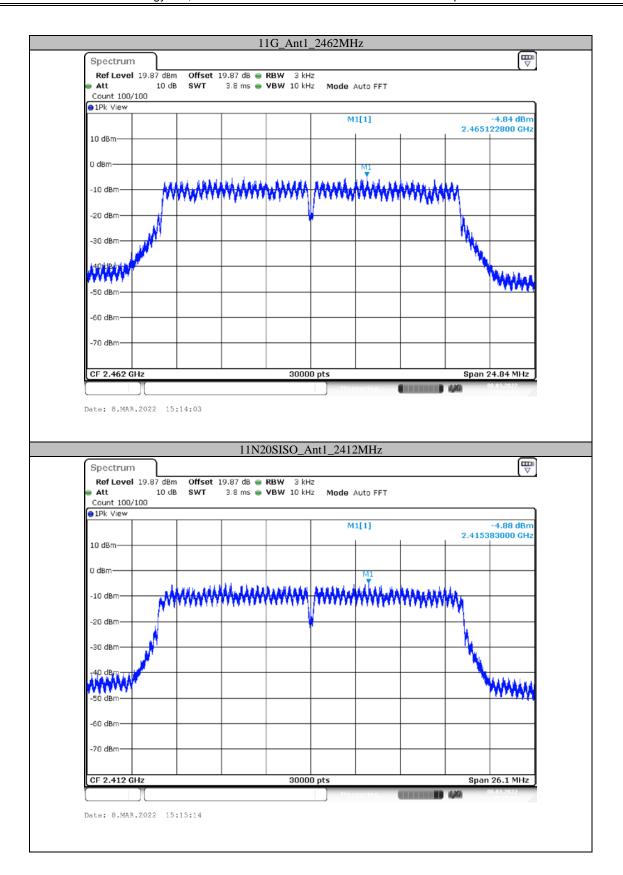
Test Result

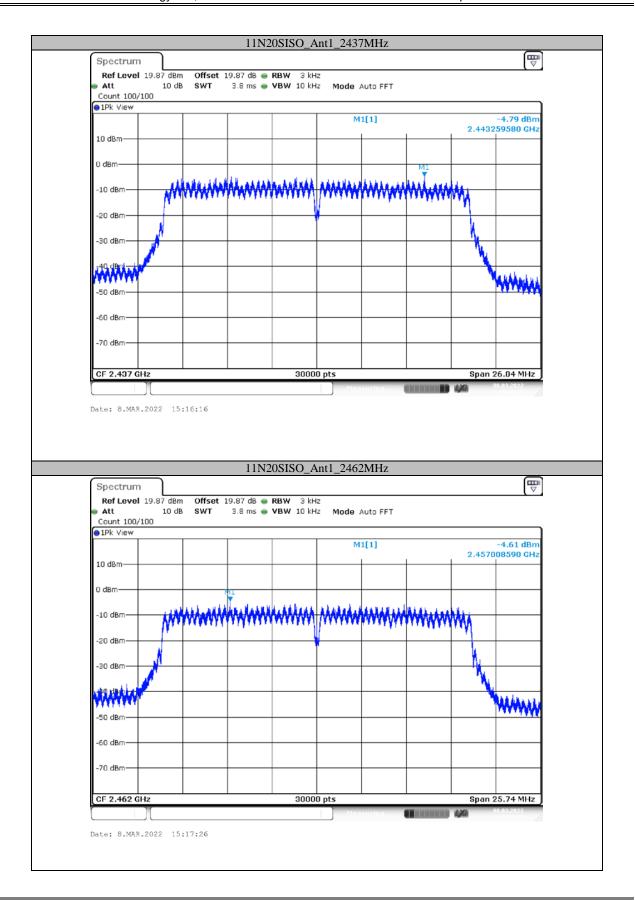
TestMode	Antenna	Channel[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-0.23	<=8	PASS
		2437	-0.04	<=8	PASS
		2462	-0.02	<=8	PASS
11G	Ant1	2412	-4.89	<=8	PASS
		2437	-4.43	<=8	PASS
		2462	-4.84	<=8	PASS
11N20SISO	Ant1	2412	-4.88	<=8	PASS
		2437	-4.79	<=8	PASS
		2462	-4.61	<=8	PASS



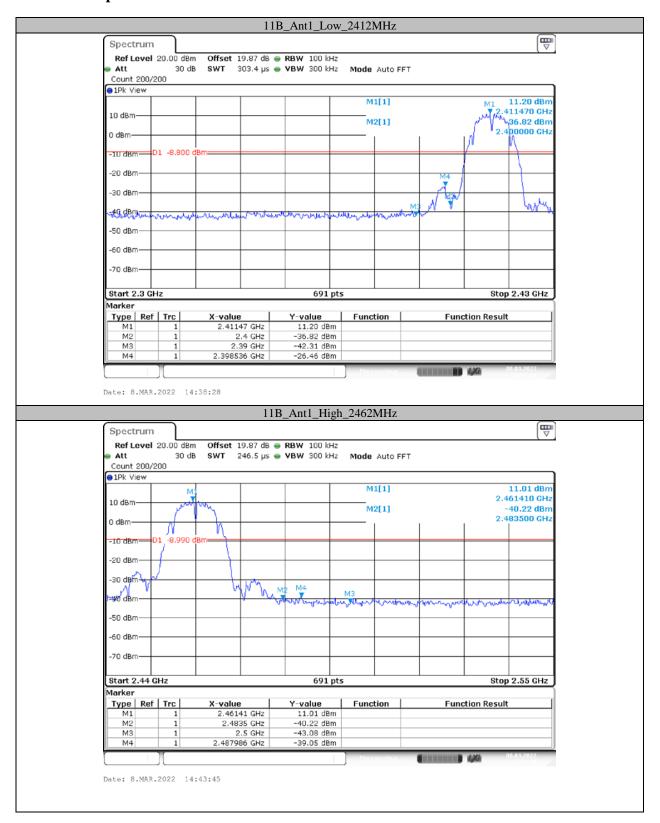


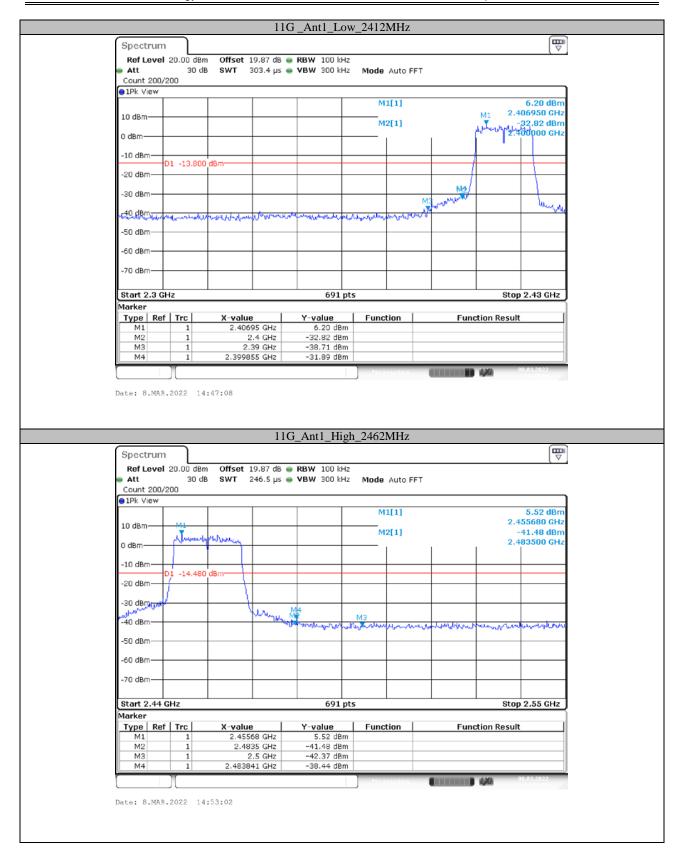


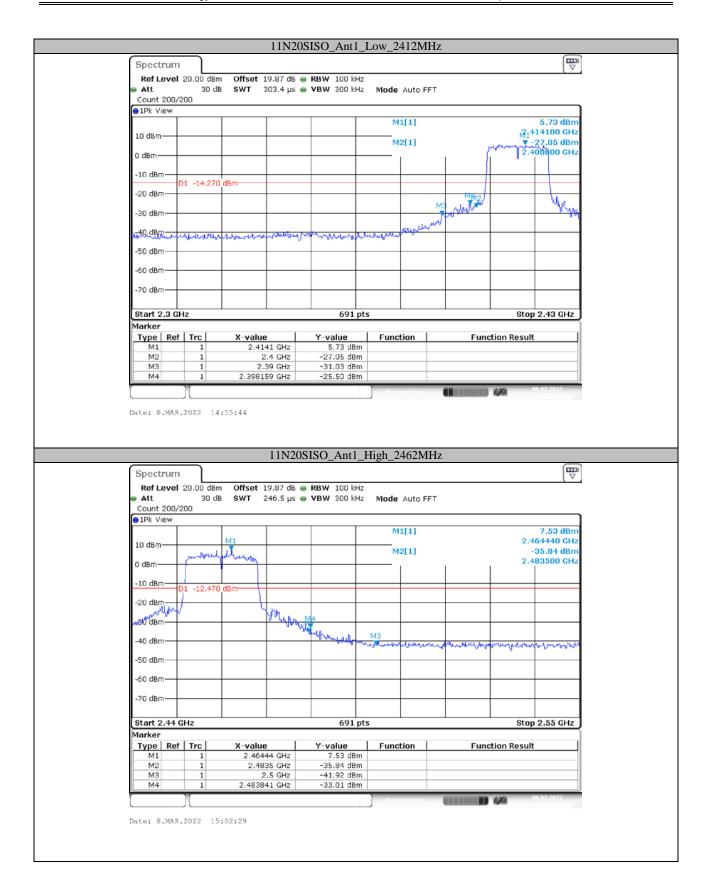




Appendix E: Band edge measurements



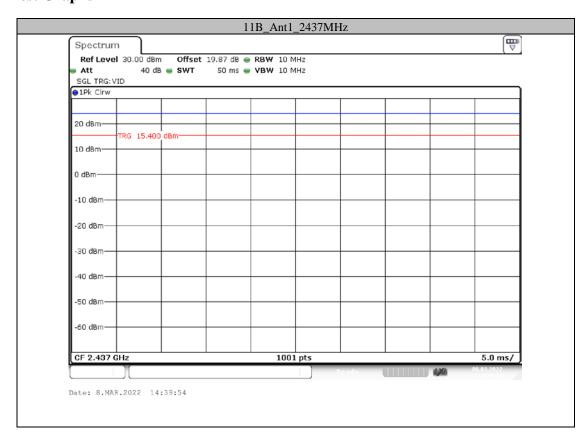


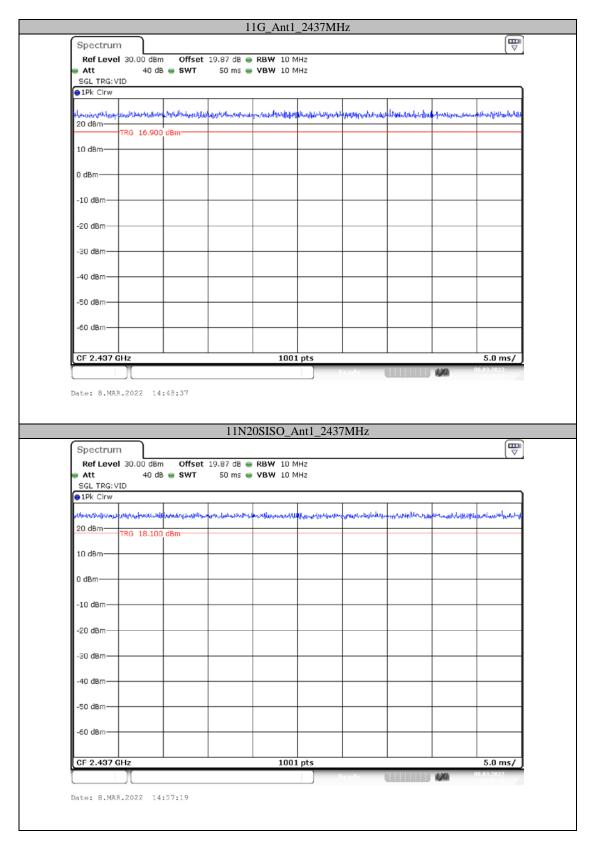


Appendix F: Duty Cycle

Test Result

TestMode	Antenna	Channel [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2437	50.00	50.00	100.00
11G	Ant1	2437	50.00	50.00	100.00
11N20SISO	Ant1	2437	50.00	50.00	100.00





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