



# **TEST REPORT**

Applicant Name(for FCC) : Applicant Name(for IC) Address(for FCC) : Address(for IC) : Report Number : FCC ID: IC: abode systems, inc Abode Systems, Inc. 2625 Middlefield Rd. #900 Palo Alto, California, United States, 94306 2625 Middlefield Rd ., #900 Palo Alto, CA 94306, United States BJ220322-10024E-RF 2ARGFWVDC 26939-WVDC

# 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:	Chime
Model No.:	104064/A/C
Trade Name:	abode
Date Received:	2022-03-22
Date of Test:	2022-09-13 to 2022-09-21
Report Date:	2022-09-26

Test Result:

Pass\*

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

# **Prepared and Checked By:**

Andy. YUL

Audy.Yu EMC Engineer

Approved By:

Candry . Li

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

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Version 22: 2021-11-09

Page 1 of 59

FCC&RSS- 2.4G Wi-Fi

Report No.: BJ220322-10024E-RF

Shenzhen Accurate Technology Co., Ltd.

# **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 EQUIPMENT MODIFICATIONS	
EUT Exercise Software	
DUTY CYCLE	6
SUPPORT EQUIPMENT LIST AND DETAILS	
EXTERNAL I/O CABLE Block Diagram of Test Setup	6
SUMMARY OF TEST RESULTS	
TEST EQUIPMENT LIST	9
FCC §1.1310 & §2.1091 -RF EXPOSURE	10
TEST RESULT:	
RSS-102 § 2.5.2 – EXEMPTION LIMITS FOR ROUTINE EVALUATION-RF EXPOSURE EVALUATION	TION 11
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	
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	
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 EM	ISSION
BANDWIDTH	
APPLICABLE STANDARD	
TEST PROCEDURE TEST DATA	
ΤΕΘΙ ΦΑΙΑ	29

Shenzhen Accurate Technology Co., Ltd.	Report No.: BJ220322-10024E-RF	
FCC §15.247(B)(3) & RSS-247 § 5.4(D) MAXIMUM CON	DUCTED OUTPUT POWER3	<b>90</b>
APPLICABLE STANDARD		60
Test Procedure		60
TEST DATA		51
FCC §15.247(D) & RSS-247 § 5.5 100 KHZ BANDWIDTH	I OF FREQUENCY BAND EDGE3	\$2
APPLICABLE STANDARD		32
TEST PROCEDURE		52
TEST DATA		52
FCC §15.247(E) & RSS-247 § 5.2 (B) POWER SPECTRA	L DENSITY	\$3
APPLICABLE STANDARD		\$3
Test Procedure		
TEST DATA		\$4
APPENDIX WI-FI		
APPENDIX A: 6DB EMISSION BANDWIDTH		35
APPENDIX B: OCCUPIED CHANNEL BANDWIDTH	4	0
APPENDIX C: MAXIMUM CONDUCTED PEAK OUTPUT POWER		
APPENDIX D: POWER SPECTRAL DENSITY		
APPENDIX E: BAND EDGE MEASUREMENTS	5	1
APPENDIX F: DUTY CYCLE		54

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# **GENERAL INFORMATION**

Product	Chime
Tested Model	104064/A/C
HVIN	104064/A/C
FVIN	V1.0
Frequency Range	2.4G Wi-Fi: 2412-2462MHz
Maximum Conducted Peak Output Power	802.11b: 23.58dBm, 802.11g: 22.80dBm, 802.11n20: 22.76dBm
Modulation Technique	DSSS/OFDM
Antenna Specification*	Internal PIFA Antenna: 3.96dBi (It is provided by the applicant)
Voltage Range	DC 12V From Adapter
Sample serial number	BJ220322-10024E-RF-S1 (RF Radiated Test) BJ220322-10024E-RF-S2 (RF Conducted Test) (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	AC/DC ADAPTER MODEL: KA1201A-1201000US INPUT: 100-240V~50/60Hz 0.4A Max OUTPUT: 12V1000mA

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

# 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**

Parameter		Uncertainty
Occupied Char	nnel Bandwidth	5%
RF output pov	wer, conducted	0.73dB
Unwanted Emi	ssion, conducted	1.6dB
AC Power Lines Conducted Emissions		2.72dB
	30MHz - 1GHz	4.28dB
Emissions, Radiated	1GHz - 18GHz	4.98dB
Rudiated	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.

Shenzhen Accurate Technology Co., Ltd.

# SYSTEM TEST CONFIGURATION

# **Description of Test Configuration**

For 802.11b, 802.11g, 802.11n-HT20, total 11 channels are provided to testing:

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 modes were tested with Channel 1, 6 and 11.

# **Equipment Modifications**

No modification was made to the EUT tested.

# **EUT Exercise Software**

Software "xshell7"\* was used during testing and the power level setting was Default \*.

# **Duty cycle**

Test Result: Compliant. Please refer to the Appendix F

# **Support Equipment List and Details**

Manufacturer	Description	Description Model	
ABODE	Video Doorbell	104064/A/D	/
DELL	NoteBook	Latitude E4710	PC201911252059

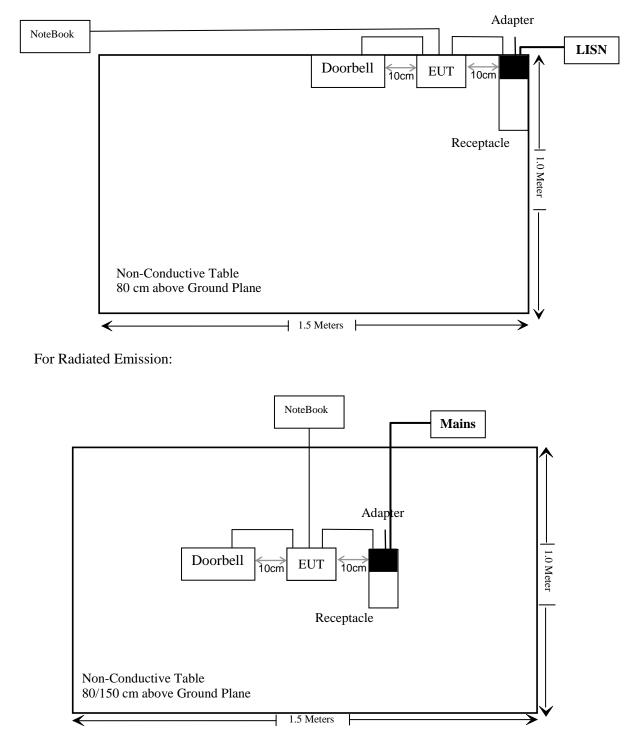
# External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielding Un-Detachable AC Cable	1.0	LISN	Receptacle
Un-shielding Un-Detachable DC Cable	1.2	Adapter	EUT
Un-shielding Detachable USB Cable	1.0	EUT	Doorbell
Un-shielding Detachable network Cable	6.0	EUT	NoteBook

Version 22: 2021-11-09

#### **Block Diagram of Test Setup**

For Conducted Emission:



# SUMMARY OF TEST RESULTS

FCC Rules	ISEDC Rules	Description of Test	Result
<b>§</b> 1.1310 & §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

# **TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date			
Conducted Emissions 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	ions 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.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 Softw	ware: e3 19821b (V	/9)				
		<b>RF</b> Conducte	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.33	RF-03	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).

# FCC §1.1310 & §2.1091 -RF EXPOSURE

#### **Applicable Standard**

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.4 – 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  $\lambda$  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).

Table 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 <sup>2</sup> .
1.34-30	3,450 R <sup>2</sup> /f <sup>2</sup> .
30-300	3.83 R <sup>2</sup> .
300-1,500	0.0128 R <sup>2</sup> f.
1,500-100,000	19.2R <sup>2</sup> .

f = frequency in MHz;

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

#### **Test Result:**

For worst case:

Mode	Frequency Range	Tune-up Output Power		-	enna ain	ERP		ERP		Evaluation Distance	ERP Limit
	(MHz)	(dBm)	(W)	(dBi)	(dBd)	(dBm)	( <b>W</b> )	(cm)	(W)		
2.4G Wi-Fi	2412-2462	24	0.25	3.96	1.81	25.81	0.38	20	0.768		

Note 1: The tune-up power was declared by the applicant. Note 2: 0dBd=2.15dBi.

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

**Result:** Compliant.

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

# **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 24 dBm, antenna gain is 3.96dBi. So the maximum e.i.r.p. of the device is 24dBm + 3.96dBi = 27.96dBm = 0.625W < 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:

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 3.96dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Туре	Antenna Gain	Impedance
PIFA	3.96dBi	50 Ω

### **Result: Compliant.**

# FCC § 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  $\mu$ H / 50  $\Omega$  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 limit (dBµV)						
(MHz)	Quasi-Peak Average					
0.15 - 0.5	66 to 56 <sup>1</sup>	56 to 46 <sup>1</sup>				
0.5 – 5	56	46				
5 - 30	60	50				

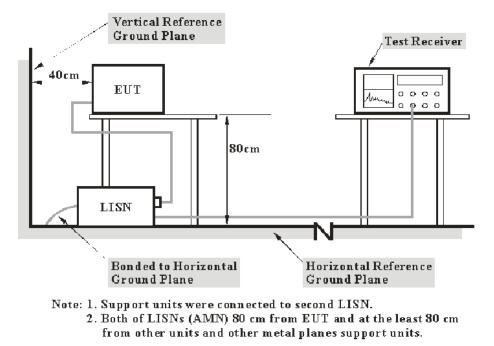
Note 1: The level decreases linearly with the logarithm of the frequency.

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**



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:

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**

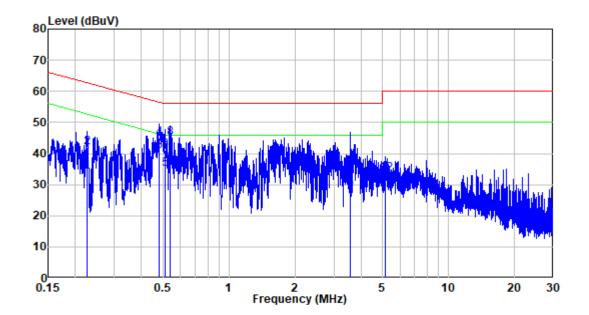
#### **Environmental Conditions**

Temperature:	23 °C
<b>Relative Humidity:</b>	50 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason Liu on 2022-09-21.

EUT operation mode: Transmitting (802.11b High Channel worst case)

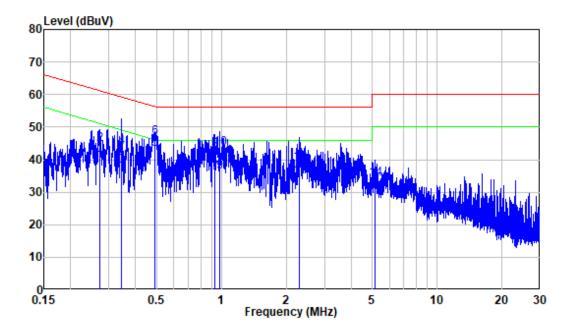
# AC 120V/60 Hz, Line



Site :	Shielding Room
Condition:	Line
Job No. :	BJ220322-10024E-RF
Mode :	Transmitting
Power :	AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.225	9.80	24.43	34.23	52.63	-18.40	Average
2	0.225	9.80	32.16	41.96	62.63	-20.67	QP
3	0.479	9.80	30.91	40.71	46.36	-5.65	Average
4	0.479	9.80	35.13	44.93	56.36	-11.43	QP
5	0.511	9.81	25.18	34.99	46.00	-11.01	Average
6	0.511	9.81	31.31	41.12	56.00	-14.88	QP
7	0.539	9.81	26.64	36.45	46.00	-9.55	Average
8	0.539	9.81	35.27	45.08	56.00	-10.92	QP
9	3.558	9.84	18.28	28.12	46.00	-17.88	Average
10	3.558	9.84	25.71	35.55	56.00	-20.45	QP
11	5.170	9.85	17.87	27.72	50.00	-22.28	Average
12	5.170	9.85	23.62	33.47	60.00	-26.53	QP

# AC 120V/60 Hz, Neutral



Site :	Shielding Room
Condition:	Neutral
Job No. :	BJ220322-10024E-RF
Mode :	Transmitting
Power :	AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.272	9.80	29.69	39.49	51.06	-11.57	Average
2	0.272	9.80	34.96	44.76	61.06	-16.30	QP
3	0.343	9.80	28.20	38.00	49.12	-11.12	Average
4	0.343	9.80	34.05	43.85	59.12	-15.27	QP
5	0.490	9.80	33.34	43.14	46.18	-3.04	Average
6	0.490	9.80	37.11	46.91	56.18	-9.27	QP -
7	0.929	9.81	26.25	36.06	46.00	-9.94	Average
8	0.929	9.81	31.99	41.80	56.00	-14.20	QP
9	0.981	9.81	26.50	36.31	46.00	-9.69	Average
10	0.981	9.81	33.59	43.40	56.00	-12.60	QP
11	2.297	9.82	24.78	34.60	46.00	-11.40	Average
12	2.297	9.82	29.02	38.84	56.00	-17.16	QP
13	5.159	9.90	18.76	28.66	50.00	-21.34	Average
14	5.159	9.90	24.16	34.06	60.00	-25.94	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;

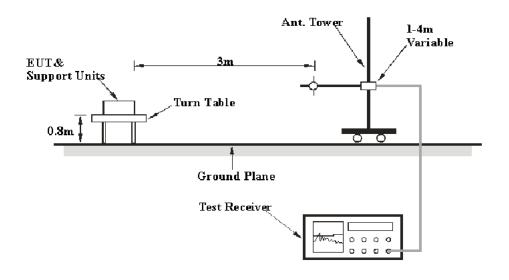
RSS-GEN § 8.10 & RSS-247 § 5.5;

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 the applicable RSS or with those specified in table 5 and table 6.

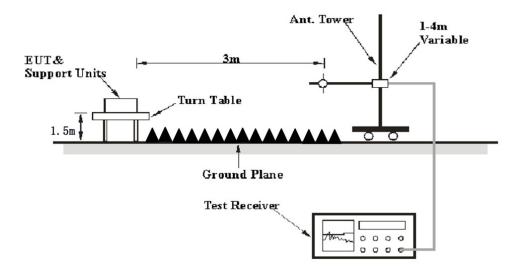
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either 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	/	РК
Above 1 GHz	1MHz	10 Hz Note 1	/	Average
	1MHz	> 1/T <sup>Note 2</sup>	/	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.

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**

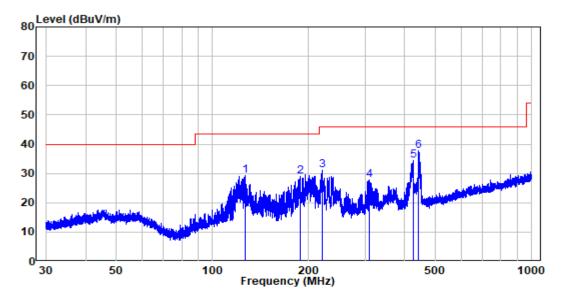
Temperature:	25~28 ℃
<b>Relative Humidity:</b>	58~60 %
ATM Pressure:	101.0~101.3 kPa

The testing was performed by Level Li from 2022-09-15 to 2022-09-20.

EUT operation mode: Transmitting

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

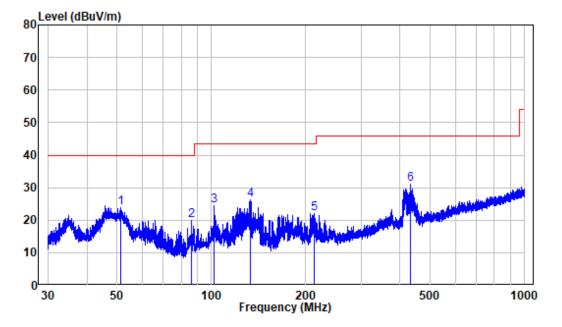
#### 30 MHz~1 GHz (Wi-Fi 802.11b , High Channel worst case):



# Horizontal

Site : chamber Condition: 3m HORIZONTAL Job No. : BJ220322-10024E-RF Test Mode: Transmitting

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	126.218	-14.43	43.84	29.41	43.50	-14.09	Peak
2	188.083	-11.81	40.87	29.06	43.50	-14.44	Peak
3	219.941	-11.41	42.38	30.97	46.00	-15.03	Peak
4	308.777	-8.92	36.63	27.71	46.00	-18.29	Peak
5	425.401	-5.85	40.38	34.53	46.00	-11.47	Peak
6	441.549	-5.64	43.44	37.80	46.00	-8.20	Peak



#### Vertical

Site : chaTransmitting Condition: 3m VERTICAL Job No. : BJ220322-10024E-RF Test Mode: Transmitting

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	51.368	-9.96	33.86	23.90	40.00	-16.10	Peak
2	86.314	-15.11	35.17	20.06	40.00	-19.94	Peak
3	101.912	-11.58	35.99	24.41	43.50	-19.09	Peak
4	132.801	-14.98	41.15	26.17	43.50	-17.33	Peak
5	213.295	-11.73	33.77	22.04	43.50	-21.46	Peak
6	432.735	-5.74	36.83	31.09	46.00	-14.91	Peak

Report No.: BJ220322-10024E-RF

# 1 GHz-25 GHz:

Frequency	Receiver		Turntable Angle	Rx Antenna		Factor	Absolute Level	Limit	Margin	
(MHz)		Degree	Height (m)	Polar (H/V)	( <b>dB</b> / <b>m</b> )	(dBuV/m)	(dBuV/m)	( <b>dB</b> )		
				802.11B, Lov	w Channel					
2310	45.3	РК	81	1.6	Н	-7.23	38.07	74	-35.93	
2310	45.68	PK	66	2.0	V	-7.23	38.45	74	-35.55	
2390	49.67	PK	192	1.6	Н	-7.21	42.46	74	-31.54	
2390	48.85	PK	334	1.1	V	-7.21	41.64	74	-32.36	
4824	47.97	PK	270	1.7	Н	-3.53	44.44	74	-29.56	
4824	47.8	РК	130	1.4	V	-3.53	44.27	74	-29.73	
	802.11B, Middle Channel									
4874	49.72	РК	264	2.2	Н	-3.42	46.30	74	-27.70	
4874	48.79	РК	41	1.3	V	-3.42	45.37	74	-28.63	
				802.11B, Hig	h Channel					
2483.5	57	PK	107	1.5	Н	-7.2	49.80	74	-24.20	
2483.5	58.24	PK	179	1.8	V	-7.2	51.04	74	-22.96	
2500	51.71	РК	290	1.1	Н	-7.18	44.53	74	-29.47	
2500	51.12	РК	77	2.0	V	-7.18	43.94	74	-30.06	
4924	50.17	РК	323	1.4	Н	-3.16	47.01	74	-26.99	
4924	52.68	РК	248	1.8	V	-3.16	49.52	74	-24.48	
				802.11 G, Lo	w Channel					
2310	49.78	PK	19	1.3	Н	-7.23	42.55	74	-31.45	
2310	48.49	РК	35	1	V	-7.23	41.26	74	-32.74	
2390	66.12	РК	332	1	Н	-7.21	58.91	74	-15.09	
2390	52.24	AV	332	1	Н	-7.21	45.03	54	-8.97	
2390	63.03	РК	127	1.4	V	-7.21	55.82	74	-18.18	
2390	49.49	AV	127	1.4	V	-7.21	42.28	54	-11.72	
4824	45	РК	277	1	Н	-3.53	41.47	74	-32.53	
4824	44.17	РК	274	1	V	-3.53	40.64	74	-33.36	
802.11 G, Middle Channel										
4874	47.18	РК	57	1.1	Н	-3.42	43.76	74	-30.24	
4874	46.25	РК	131	1.9	V	-3.42	42.83	74	-31.17	
				302.11 G, Hig	gh Channel					
2483.5	65.27	РК	344	2.1	Н	-7.2	58.07	74	-15.93	
2483.5	51.29	AV	344	2.1	Н	-7.2	44.09	54	-9.91	
2483.5	65.4	РК	284	1.1	V	-7.2	58.20	74	-15.80	
2483.5	49.24	AV	284	1.1	V	-7.2	42.04	54	-11.96	
2500	51.81	РК	59	1.9	Н	-7.18	44.63	74	-29.37	
2500	51.92	РК	166	1.2	V	-7.18	44.74	74	-29.26	
4924	48.49	РК	331	1.5	Н	-3.16	45.33	74	-28.67	
4924	47.01	РК	254	1.0	V	-3.16	43.85	74	-30.15	

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Report No.: BJ220322-10024E-RF

Frequency (MHz)	Receiver		Turntable	Rx Antenna		Factor	Absolute Level	Limit	Margin
	Reading (dBuV)	PK/AV	Angle Degree	Height (m)	Polar (H/V)	(dB/m)	(dBuV/m)	(dBuV/m)	( <b>dB</b> )
	802.11 N20, Low Channel								
2310	49.93	РК	223	1.3	Н	-7.23	42.70	74	-31.30
2310	49.45	РК	267	1.9	V	-7.23	42.22	74	-31.78
2390	69.22	РК	337	1.5	Н	-7.21	62.01	74	-11.99
2390	53.4	AV	337	1.5	Н	-7.21	46.19	54	-7.81
2390	67.67	РК	261	1.1	V	-7.21	60.46	74	-13.54
2390	51.63	AV	261	1.1	V	-7.21	44.42	54	-9.58
4824	45.58	РК	78	2.1	Н	-3.53	42.05	74	-31.95
4824	45.29	РК	116	1.4	V	-3.53	41.76	74	-32.24
			802	2.11 N20, Mi	ddle Channel				
4874	47.75	РК	49	1.7	Н	-3.42	44.33	74	-29.67
4874	47.14	РК	215	1.6	V	-3.42	43.72	74	-30.28
			88	02.11 N20, H	ligh Channel				
2483.5	69.13	РК	278	1.8	Н	-7.2	61.93	74	-12.07
2483.5	52.45	AV	278	1.8	Н	-7.2	45.25	54	-8.75
2483.5	68.15	РК	154	1.1	V	-7.2	60.95	74	-13.05
2483.5	51.98	AV	154	1.1	V	-7.2	44.78	54	-9.22
2500	52.94	РК	225	1.6	Н	-7.18	45.76	74	-28.24
2500	51.15	РК	34	1.0	V	-7.18	43.97	74	-30.03
4924	47.24	РК	234	1.9	Н	-3.16	44.08	74	-29.92
4924	47.11	РК	331	1.2	V	-3.16	43.95	74	-30.05

#### Note:

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

Absolute Level (Corrected Amplitude) = Factor + Reading

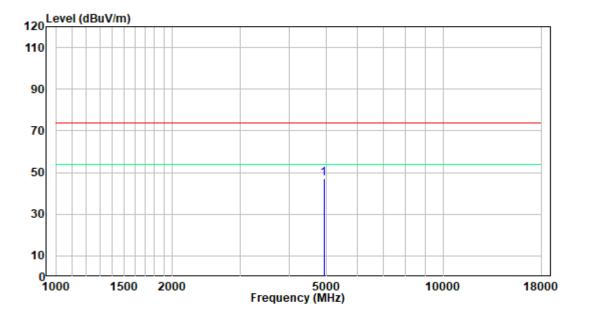
Margin = Absolute Level (Corrected Amplitude) – Limit

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

For above 1GHz, when 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.

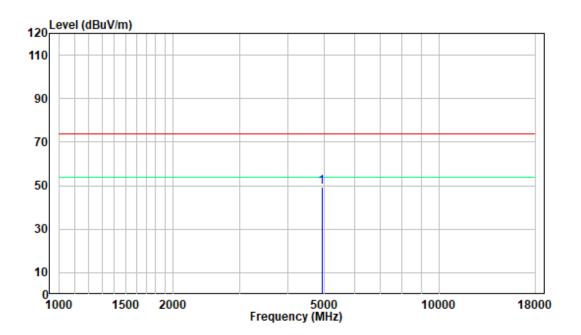
#### 1-18 GHz(worst case):

# Pre-scan with High Channel in 802.11b Mode



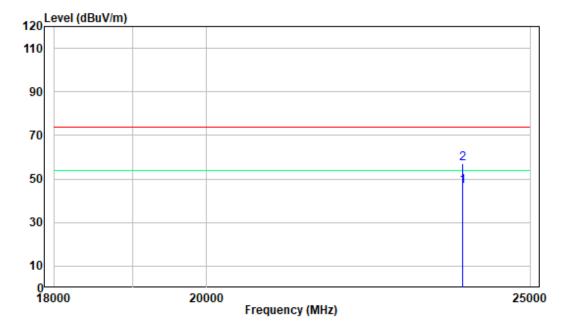
#### Horizontal





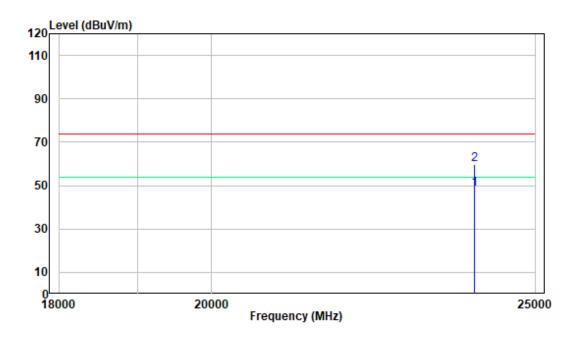
#### 18-25 GHz(worst case):

# 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.

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.

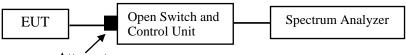
• The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / 6 dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

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

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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).



Attenuator

# **Test Data**

#### **Environmental Conditions**

Temperature:	24 °C	
Relative Humidity:	48 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Glenn. Jiang on 2022-09-13.

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 POWER

# Applicable Standard

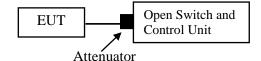
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted 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:	24 °C		
<b>Relative Humidity:</b>	48 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Glenn. Jiang on 2022-09-13.

EUT operation mode: Transmitting

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

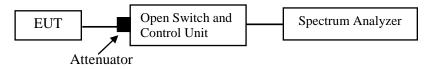
# FCC § 15.247(d) & RSS-247 § 5.5 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

# **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:	24 °C		
<b>Relative Humidity:</b>	48 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Glenn.Jiang on 2022-09-13.

EUT operation mode: Transmitting

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

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

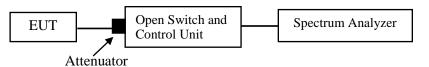
# **Applicable Standard**

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.

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:  $3kHz \le RBW \le 100 kHz$ .
- 3. Set the VBW  $\geq 3 \times RBW$ .
- 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:	24 °C		
<b>Relative Humidity:</b>	48 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Glenn. Jiang on 2022-09-13.

EUT operation mode: Transmitting

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

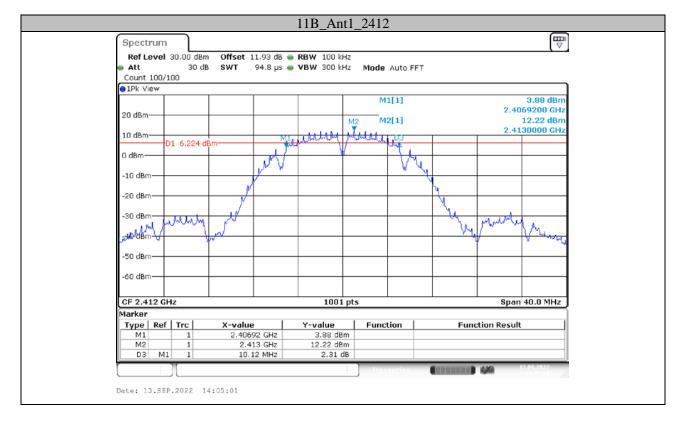
# **APPENDIX Wi-Fi**

# Appendix A: 6dB Emission Bandwidth

#### **Test Result**

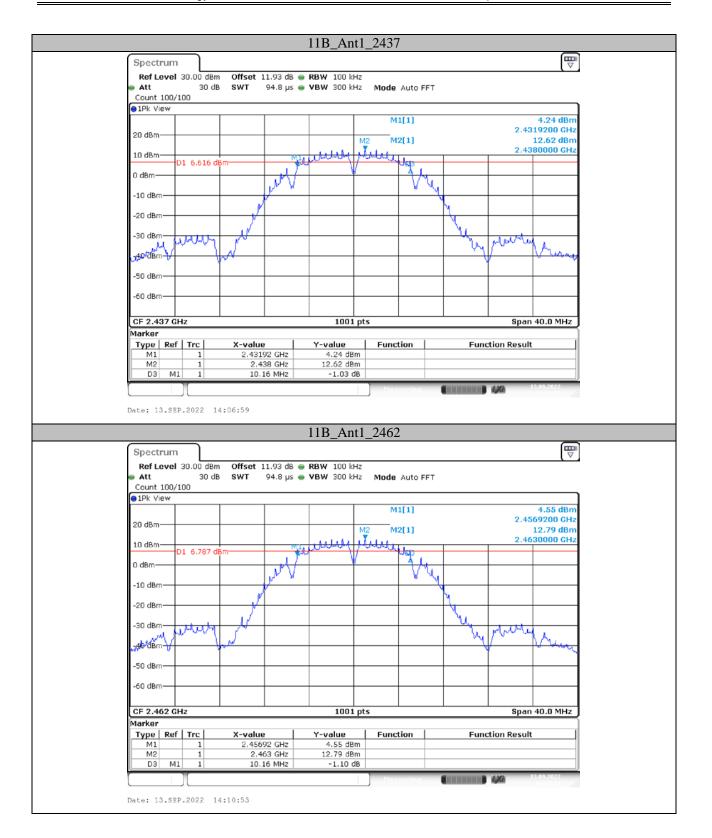
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11 <b>B</b>	Ant1	2412	10.120	2406.920	2417.040	0.5	PASS
		2437	10.160	2431.920	2442.080	0.5	PASS
		2462	10.160	2456.920	2467.080	0.5	PASS
11G	Ant1	2412	16.440	2403.760	2420.200	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.160	2403.400	2420.560	0.5	PASS
		2437	17.160	2428.400	2445.560	0.5	PASS
		2462	17.160	2453.400	2470.560	0.5	PASS

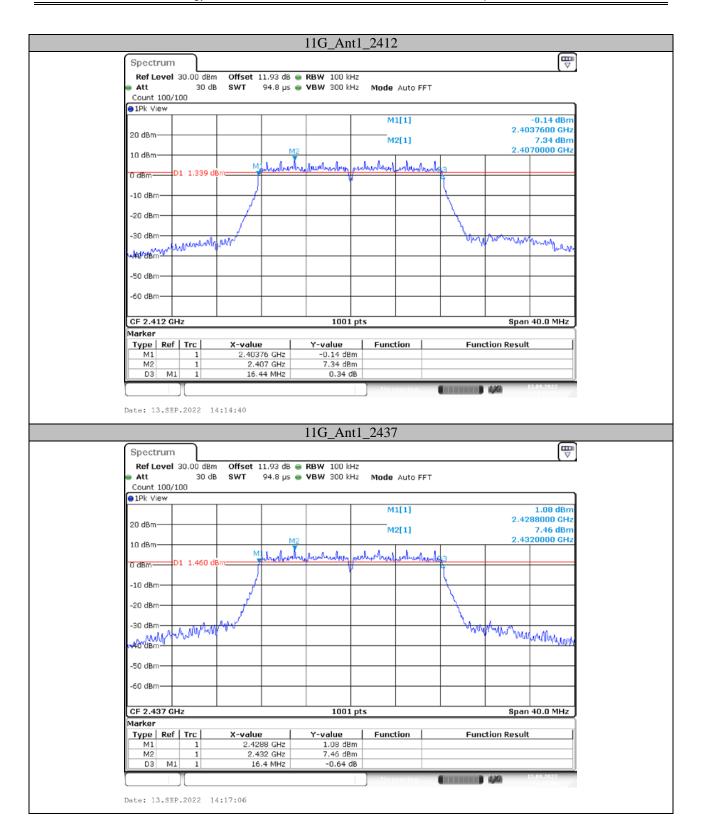
# **Test Graphs**

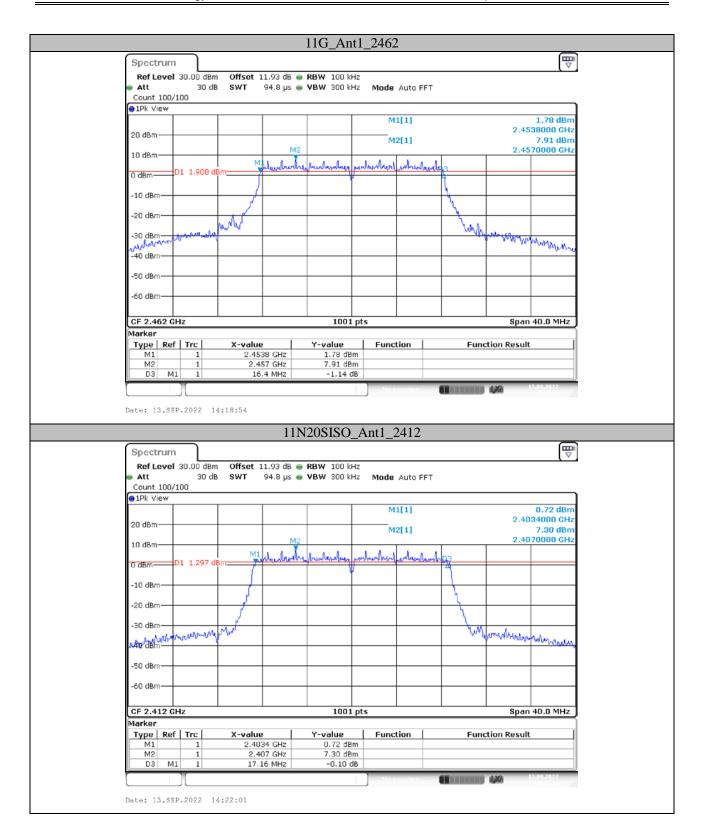


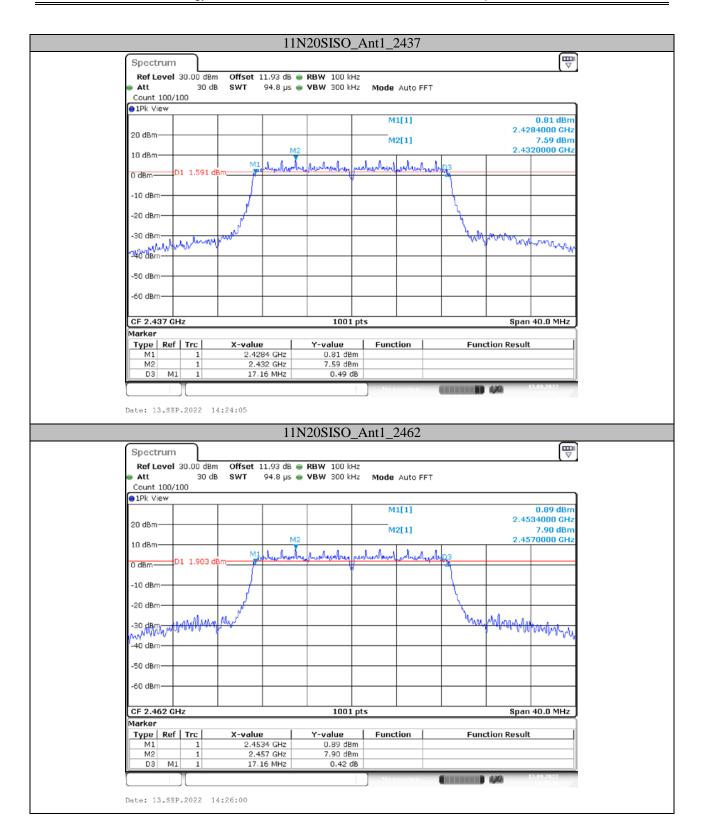
#### Shenzhen Accurate Technology Co., Ltd.

Report No.: BJ220322-10024E-RF







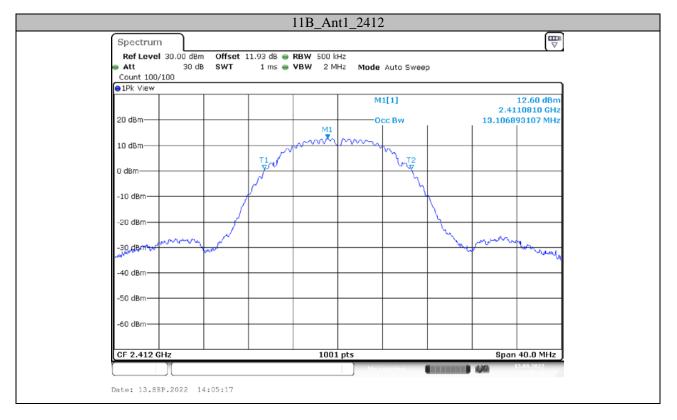


### **Appendix B: Occupied Channel Bandwidth**

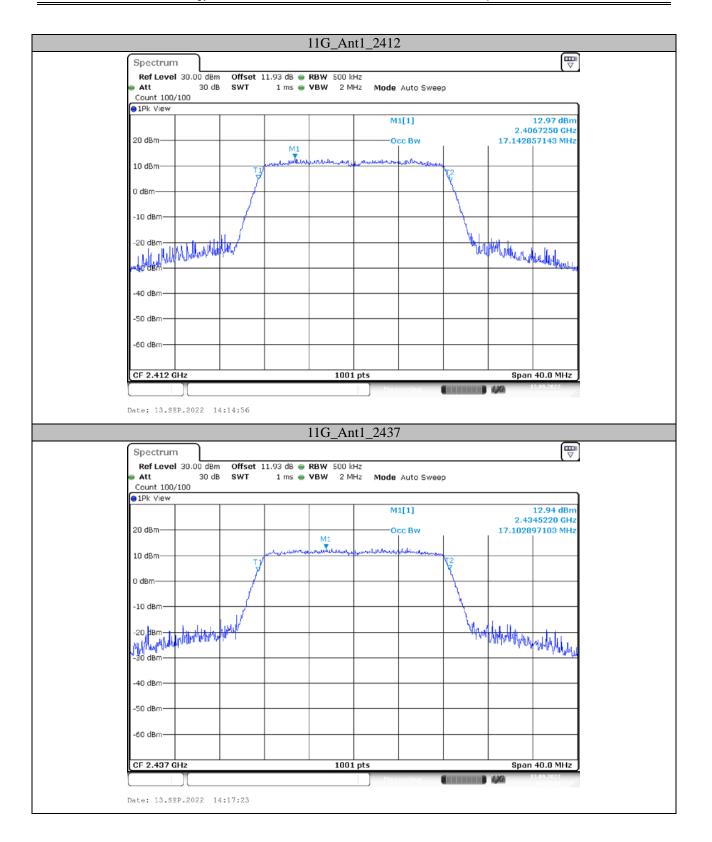
### **Test Result**

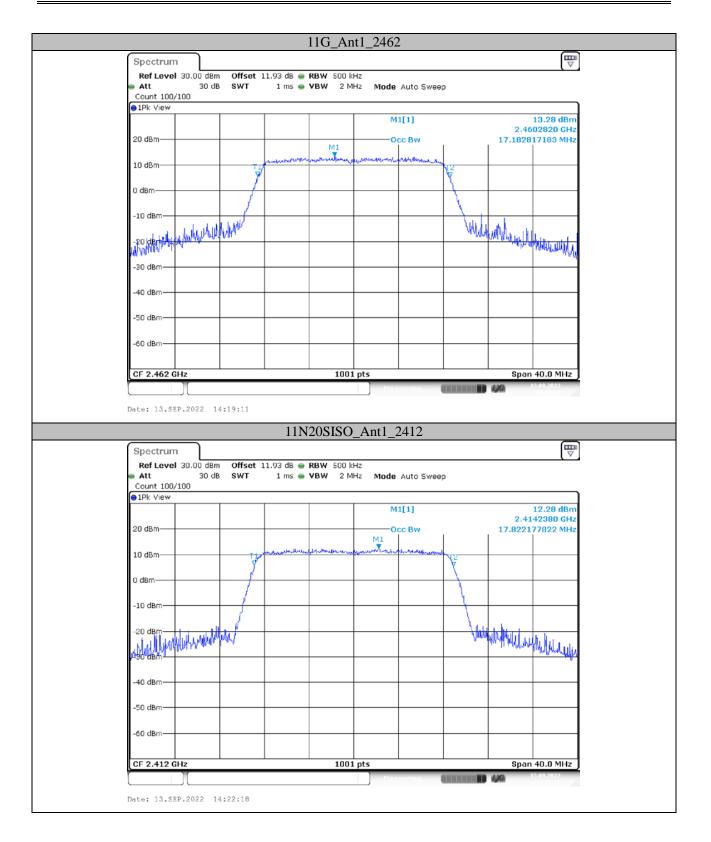
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	13.107	2405.447	2418.553		PASS
11B	Ant1	2437	13.147	2430.407	2443.553		PASS
		2462	13.187	2455.407	2468.593		PASS
		2412	17.143	2403.449	2420.591		PASS
11G	Ant1	2437	17.103	2428.449	2445.551		PASS
		2462	17.183	2453.409	2470.591		PASS
		2412	17.822	2403.089	2420.911		PASS
11N20SISO	Ant1	2437	17.822	2428.089	2445.911		PASS
		2462	17.862	2453.089	2470.951		PASS

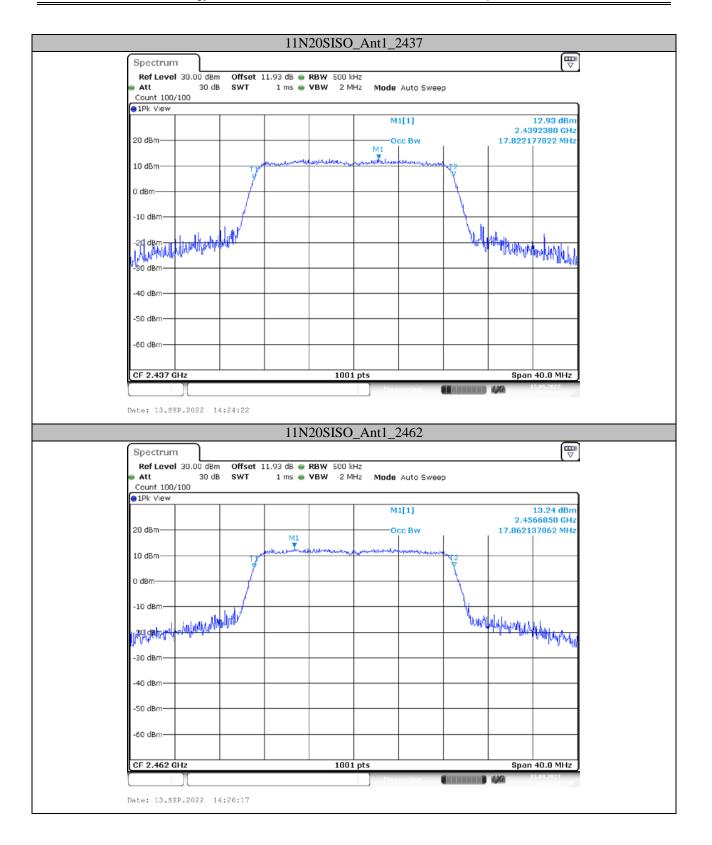
# **Test Graphs**











# Appendix C: Maximum conducted peak output power

# **Test Result**

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2412	23.06	<=30	PASS
11B	Ant1	2437	23.58	<=30	PASS
		2462	23.45	<=30	PASS
		2412	22.14	<=30	PASS
11G	Ant1	2437	22.12	<=30	PASS
		2462	22.80	<=30	PASS
		2412	22.24	<=30	PASS
11N20SISO	Ant1	2437	22.06	<=30	PASS
		2462	22.76	<=30	PASS

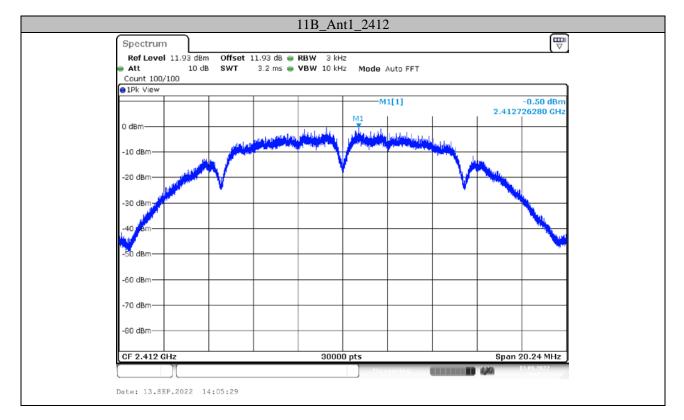
Note: The maximum EIRP is 23.58dBm+3.96 dBi=27.54dBm<36dBm, so it's compliance with ISEDC EIRP limit.

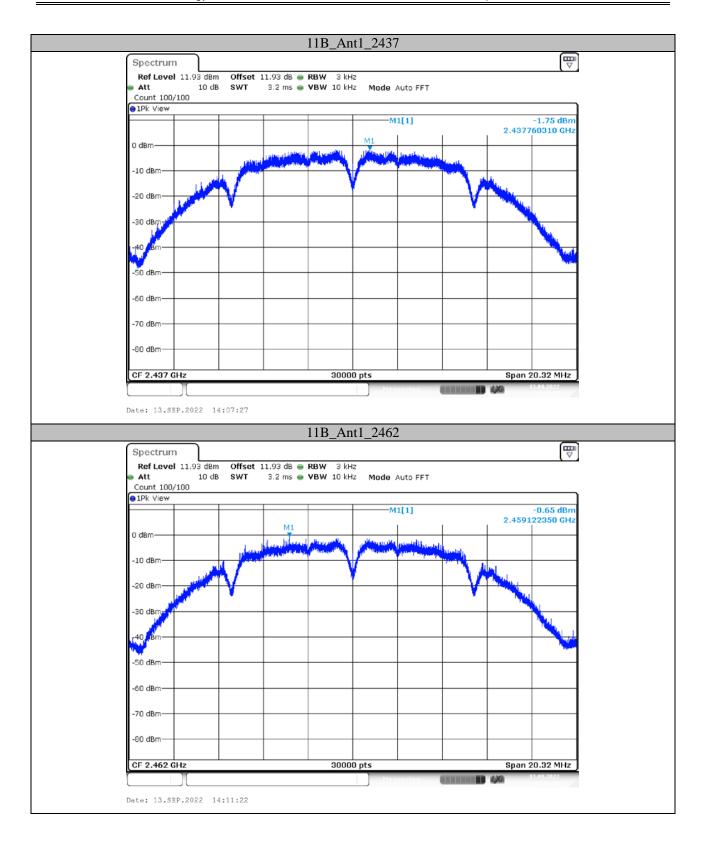
## **Appendix D: Power spectral density**

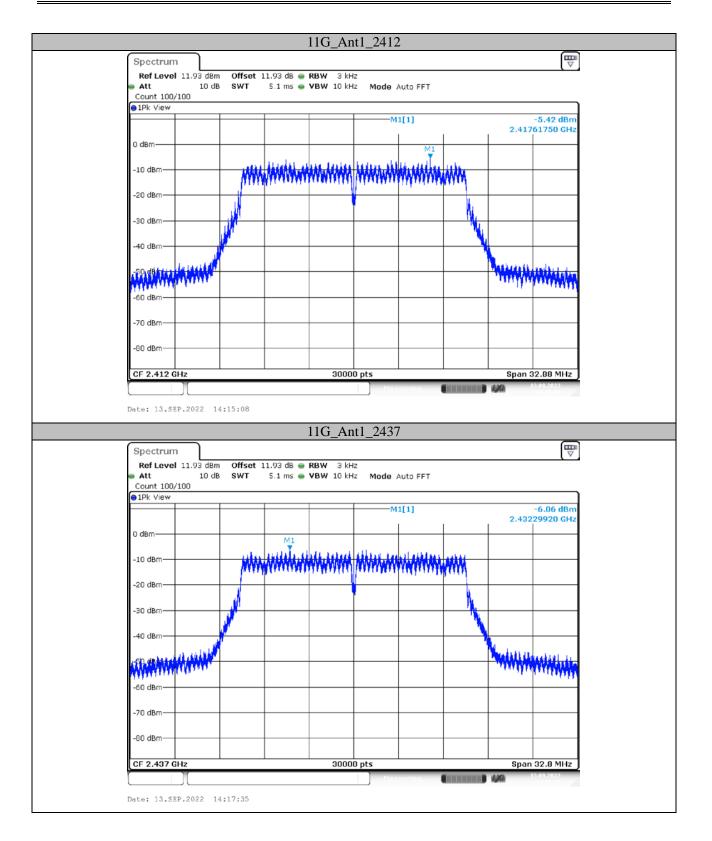
### **Test Result**

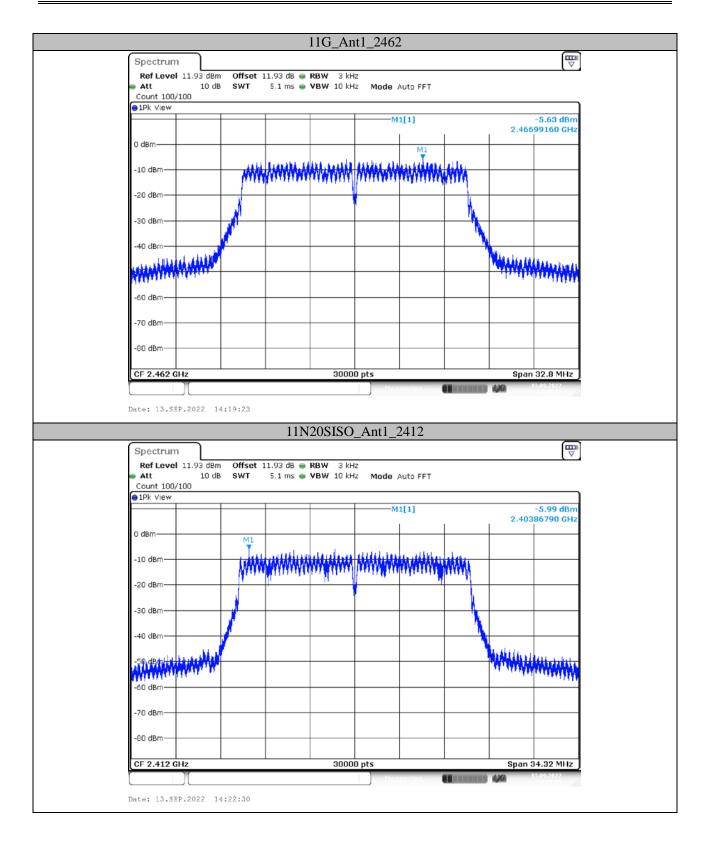
Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2412	-0.50	<=8	PASS
11B	Ant1	2437	-1.75	<=8	PASS
		2462	-0.65	<=8	PASS
		2412	-5.42	<=8	PASS
11G	Ant1	2437	-6.06	<=8	PASS
		2462	-5.63	<=8	PASS
		2412	-5.99	<=8	PASS
11N20SISO	Ant1	2437	-5.42	<=8	PASS
		2462	-4.91	<=8	PASS

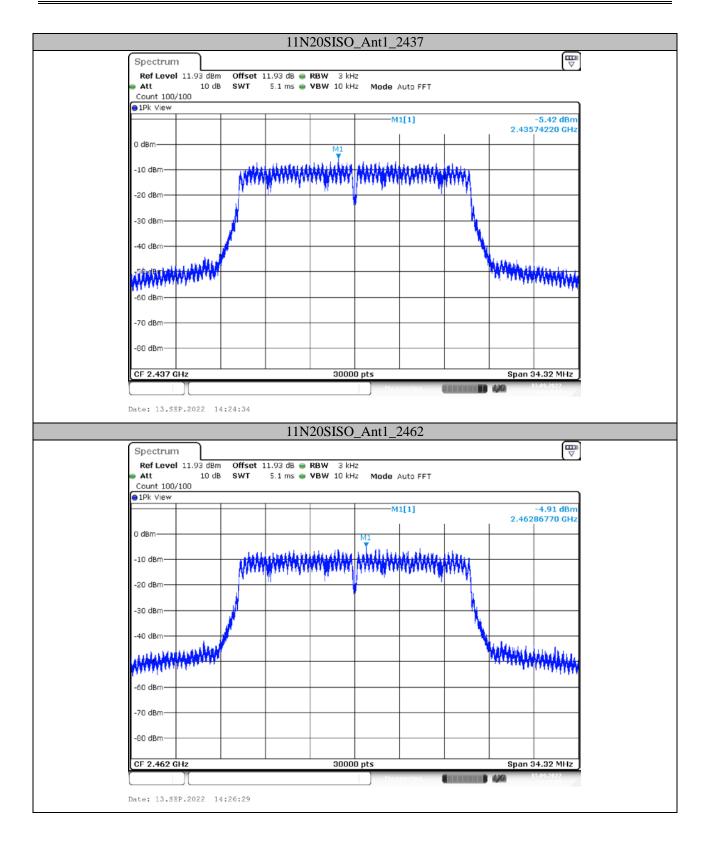
# **Test Graphs:**





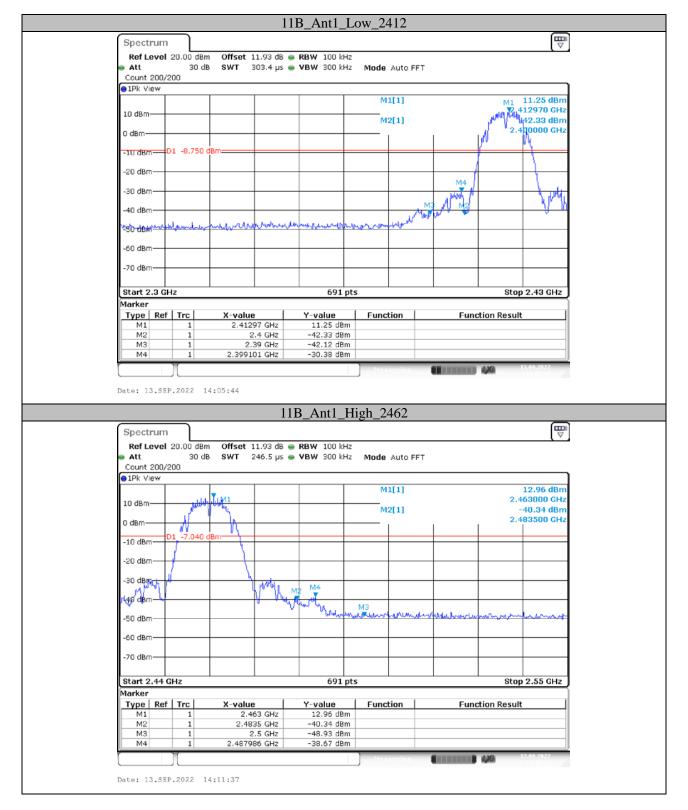






### Appendix E: Band edge measurements

### **Test Graphs**



Version 22: 2021-11-09

Ref Level         20.00 dBm         Offset         11.93 dB         RBW         100 kHz           Att         30 dB         SWT         246.5 µs         VBW         300 kHz         Mode         Auto FFT           Count 200/200         PIR         MI         7.57 dBm         2.464440 GHz         -38.18 dBm           10 dBm         M1         M1         0.2.464440 GHz         -38.18 dBm         -38.18 dBm           0 dBm         Juletth         M1         0.4664440 GHz         -38.18 dBm         -38.18 dBm           -10 dBm         D1 -12.430 dBm         M2[1]         -38.18 dBm         -38.18 dBm           -20 dBm         M1         M2         M3         -46.4440 GHz         -48.3500 GHz           -50 dBm         M3         M3         -40.444 GHz         -57 dBm         -40.444 GHz         -48.444 GHz         -48.444 GHz         -48.444 GHz         -48.66 dBm				11		_			_
Ref Level 20:00 dem         Offset 11:03 de PBW 100 Hz           Att         30:34 µs         VBW 300 Hz         Mode Auto FFT           Count 200/200         PFV Vew         M1[1]         2.46926 deh           10 dem         M2[1]         M1[1]         2.46926 deh           10 dem         M2[1]         M1[1]         2.46926 deh           20 dem         M2[1]         M1[1]         2.46926 deh           30 dem         M2[1]         M2[1]         M1[1]         2.46926 deh           40 dem         M2[1]         M2[1]         M2[1]         M1[1]         2.46926 deh           40 dem         M3         2.4592 deh         7.95 dem         M3         1         2.39 deh         M4         1         2.4592 deh         7.95 dem         M3         1         2.39 deh         M3         1         2.49 deh         M3         1         2.49 deh         M3         1         2.49 deh         M3         1         2.49 deh         M3         1         2.	Spectrur	n							
Count 200/200         Pik View         7.05 dBm           10 dBm         0 dBm         N2[1]         11 dBm           10 dBm         0 1 -12.950 dBm         0 dBm         0 dBm           -30 dBm         -0         -0         -0         -0           -30 dBm         -0         -0         -0         -0         -0           -30 dBm         -0         -0         -0         -0         -0           -40 dBm         -0         -0         -0         -0         -0           -40 dBm         -0         -0         -0         -0         -0         -0           -40 dBm         -0         -0         -0         -0         -0         -0         -0           -70 dBm         -0         -0         -0         -0         -0         -0         -0           Marker         -0									
BJP: View         MI[1]         2.05 Gm           10 d8m         MI[1]         2.416920 GHz           0 d8m         M2[1]         M2[1]           0 d8m         M2[1]         M2[1]           0 d8m         M2[1]         M2[1]           20 d8m         M2[1]         Stop 2.43 GHz           Marker         Trc         X-value         Function           M4         1         2.4092 GHz         -34.19 d8m           M3         1         2.30 GHz         -34.19 d8m           M4         1         2.30 GHz         -34.19 d8m           M4         1         2.404 GM         M2[1]           2.40 GHZ         Stop 2.45 GHZ         -39.19 d8m           M3			B SWT	303.4 µs (	VBW 300 kHz	Mode Auto F	FT		
10 d8m       2.2.10.920 CHz         0 d8m       M2(1)         0 d8m       M2(1)         10 d8m       M2(1)         10 d8m       M2(1)         20 d8m       M2		7200							
10 0 8m       M2[1]						M1[1]			
0 dBm	10 dBm					M9[1]			
-10 dBm       01 -12.950 dBm       0	0 dBm					M2[1]		Mulu 2.4	00000 GHz
O         Dit - 12.950 dBm         Dit         Dit <thdit< th="">         Dit</thdit<>								· · ·	
20 dBm       30 dBm	-10 dBm-	D1 -12.950	) dBm						
+0 dbm       minipage	-20 dBm—								
+0 dbm	00 db						Mal		
Bod dam         Marker         Stop 2.43 GHz           70 dBm         60 dBm         60 dBm         60 dBm           70 dBm         60 dBm         60 dBm         60 dBm         60 dBm           Start 2.3 GHz         691 pts         Stop 2.43 GHz           Marker         Type Ref Trc         X-value         Y-value         Function           Marker         1         2.41692 GHz         7.05 dBm         Function Result           Ma         1         2.36 GHz         -34.83 dBm         Marker           Ma         1         2.36 GHz         -34.93 dBm         Marker           Date:         13.3587.2022         14:15:23         100 Bm         100 Bm         100 Bm           Date:         13.3587.2022         14:15:23         Mode Auto FFT         20.00 dBm         0ffset 11:09 dB ● RBW 100 kHz         Marker         2.464440 GHz         -38.10 dBm         2.464440 GHz         -38.10 dBm         2.464440 GHz         -38.10 dBm         2.464440 GHz         -38.10 dBm         2.463200 GHz         -38.10 dBm         2.463200 GHz         -38.10 dBm         2.463200 GHz         -38.10 dBm         -38.10 dBm </td <td>-30 aBm-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>hreen</td>	-30 aBm-								hreen
c0 dBm	-40 dBm—						M M		1000
c0 dBm	-so dbm	menting	mann	men	water agreen sair	manna	~ ~		
-70 d8m       Stop 2.43 GHz         Start 2.3 GHz       691 pts       Stop 2.43 GHz         Marker       Type Ref Trc       X-value       Y-value       Function         M1       1       2.4 GHz       -34.93 dEm									
Start 2.3 GHz         691 pts         Stop 2.43 GHz           Marker         Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.4 GHz         -38.43 GHm         1         1         2.4 GHz         -34.93 GHm           M3         1         2.39 GHz         -42.24 dHm         1         1         2.399778 GHz         -34.93 GHm         1 <t< td=""><td>-60 dBm—</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	-60 dBm—								
Marker         Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.4 GHz         -38.93 dBm	-70 dBm—				_				
Marker         Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.4 GHz         7.05 dBm         Function Result         Function Result           M3         1         2.49 GHz         7.05 dBm         Function Result         Function Result           M4         1         2.49 GHz         -34.93 dBm         Function         Function Result           M4         1         2.399478 GHz         -34.19 dBm         Function         Function           Date:         13.55F.2022         14:15:23         Function         Function         Function           Ref Level         20.00 dBm         Offset         11.93 dB         RBW 100 kHz         Mode         Autor FFT           Count 200/200         OBm         M1         M1[1]         2.464440 GHz         -38.18 dBm           0 dBm         M1         M1[1]         2.464440 GHz         -38.18 dBm         2.463500 GHz           -00 dBm         M1         M1         M1         2.464440 GHz         -38.18 dBm           -00 dBm         M1         M1         M1         2.464440 GHz         -38.18 dBm           -00 dBm         M1         M1         M1									
Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.4.1692 GHz         7.05 dBm         1         1         2.4.644         1		GHz			691 pt	s		Stop	2.43 GHz
M1       1       2.41692 GHz       7.05 dBm         M3       1       2.44 GHz       -34.83 dBm         M4       1       2.399478 GHz       -34.19 dBm         M4       1       2.399478 GHz       -34.19 dBm         M4       1       2.399478 GHz       -34.19 dBm         Date:       13.582.2022       14:15:23         IIG_Ant1_High_2462         Spectrum         Ref Level 20.00 dBm       Offset 11.93 dB       RBW 100 kHz         Att       30 dB       SWT       246.5 µs       VBW 300 kHz       Mode Auto FFT         Count 200/200         ●1k view       M1       2.4644440 GHz       -38.18 dBm         10 dBm       01       -12.430 dBm       M1       2.4644440 GHz         -10 dBm       01       -12.430 dBm       M3       2.483500 GHz         -30 dBm       M3       M3       M3       M4       M4         -70 dBm       M3       M3       2.463444 GHz       7.57 dBm         -70 dBm       M3       1       2.46444 GHz       7.57 dBm         -70 dBm       M3       1       2.46444 GHz       7.57 dBm         -70 dBm		fTrc	X-valu	a (	Y-value	Eunction	Fund	ction Result	
M3         1         2.39 GHz         -42.24 dBm           M4         1         2.399478 GHz         -34.19 dBm           Date:         13.55P.2022         14:15:23           IIG_Ant1_High_2462           Spectrum           Ref Level 20.00 dBm         Offset 11.93 dB         RBW 100 kHz           Att         30 dB         SWT         246.5 µs         VBW 300 kHz         Mode Auto FFT           Count 200/200         IPk View         M1[1]         2.483500 GHz           10 dBm         D1 -12.430 dBm         M1[1]         2.483500 GHz           -30 dBm         -10 dBm         -12.430 dBm         -20 dBm         -2.483500 GHz           -30 dBm         -12.430 dBm         -2.483500 GHz         -2.483500 GHz         -2.483500 GHz         -2.55 GHz         -2.483500 GHz         -2.483500 GHz         -2.55 GHz         -2.483500 GHz         -2.55 GHz         -2.55 GHz         -2.55 GHz         -2.4835 GHz         -2.48350 GHz         -2.4835 GHz	M1	1	2.416	92 GHz	7.05 dBm				
M4       1       2.399478 GHz       -34.19 dBm         Date:       13.55P.2022       14:15:23         IIG_Ant1_High_2462         Image: Spectrum									
Date: 13.55P.2022 14:15:23         IIG_Ant1_High_2462         Spectrum         Ref Level 20.00 dbm Offset 11.93 db @ RBW 100 kHz         Att       30 db SWT 246.5 µs @ VBW 300 kHz         Mode Auto FFT         Count 200/200         @IPK View       M1[1]       7.57 dBm         10 dBm       M1       M2[1]       -38.18 dBm         0 dBm       M1       M2[1]       2.483500 GHz         -10 dBm       D1 -12.430 dBm       M2[1]       2.483500 GHz         -20 dBm       Main       M3       Main       M3         -30 bB dbm       Main       M3       Stop 2.55 GHz	1413								
Date: 13.55P.2022 14:15:23         IIG_Ant1_High_2462         Spectrum         Ref Level 20.00 dbm       Offset 11.93 db< RBW 100 kHz         Att       30 db       SWT 246.5 µs       VBW 300 kHz       Mode Auto FFT         Count 200/200         ID dbm       M1       7.57 dbm       2.464440 GHz         0 dBm       M2[1]       2.483500 GHz       -38.18 dbm         -10 dBm       D1 -12.430 dbm       M2[1]       2.483500 GHz         -20 dBm       Main       Main         -30 dBm       Main <td< td=""><td>M4</td><td>1</td><td>2.3994</td><td>70 GH2</td><td></td><td></td><td></td><td></td><td></td></td<>	M4	1	2.3994	70 GH2					
Att         30 dB         SWT         246.5 μs         VBW         300 kHz         Mode Auto FFT           Count 200/200         M1         7.57 dBm         2.464440 GHz         30.8 dBm         M1[1]         7.57 dBm           10 dBm         M1         M1         M1[1]         7.57 dBm         2.464440 GHz         -38.18 dBm           0 dBm         M2[1]         -38.19 dBm         2.483500 GHz         -38.18 dBm         -30.19 dBm           -10 dBm         D1 -12.430 dBm         M3         -40.4440 GHz         -70.48m         -40.444 GHz         -40.445 GHz         -40.445 GHz         -40.445 GHz         -40.445 GHz         -40.445 GHz         -40.456 GHz         -30.18 BBm         -40.45						Measuring.	•	6,49	3.09.2022
Count 200/200           IPk View         M1         M11         7.57 dBm           10 dBm         M1         M11         2.464440 GHz           0 dBm         Juntuh Hulu         M2[1]         -38.18 dBm           0 dBm         Juntuh Hulu         M2[1]         -38.18 dBm           -10 dBm         D1 -12.430 dBm         2.483500 GHz         -30 dBm           -20 dBm         -30 dBm         -464440 GHz         -483500 GHz           -30 dBm         -46444 GHz         -4835 GHz         -4835 GHz           -50 dBm         -46444 GHz         -50 dBm         -4644 GHz           -70 dBm         -4644 GHz         -757 dBm         -4644 GHz           -70 dBm         -1         2.4835 GHz         -38.18 dBm           M1         1         2.4835 GHz         -38.18 dBm         -38.18 dBm           M3         1         2.5 GHz         -38.18 dBm         -38.18 dBm     <	Date: 13.5 Spectrur	n	4:15:23	11	lG_Ant1_H	J. McMullin		4,961	3.09.2022
M1         M11         7.57 dBm           0 dBm         J.464440 GHz         -38.18 dBm         -30 dBm         2.483500 GHz           -10 dBm         D1 -12.430 dBm         -12.430 dBm         -10 dBm         -12.430 dBm           -20 dBm         -30 dBm         -40 dBm         -40 dBm         -40 dBm         -40 dBm           -30 dBm         -50 dBm         -40 dBm         -40 dBm         -40 dBm         -40 dBm           -50 dBm         -50 dBm         -50 dBm         -50 dBm         -50 dBm         -50 dBm           -70 dBm         -70 dBm         -50 dBm         -50 dBm         -50 dBm         -50 dBm           -70 dBm         -70 dBm         -70 dBm         -70 dBm         -70 dBm         -70 dBm           -70 dBm         -70 dBm         -73 dFm         -73 dFm         -73 dFm           M1         1         2.46344 GHz         7.57 dFm         -73 dFm           M2         1         2.4835 GHz         -38.19 dFm         -38.19 dFm           M3         1         2.5 GHz         -38.19 dFm         -38.19 dFm           M4         1         2.48352 GHz         -38.19 dFm         -38.19 dFm	Spectrur Ref Leve	EP.2022 1	4:15:23	11 11.93 dB	G_Ant1_F	ligh_2462		4,401	3.09.2022
10 dBm       M1       2.464440 GHz         0 dBm       .38.18 dBm         -10 dBm       D1 -12.430 dBm         -20 dBm	Spectrur Ref Leve	EP.2022 1 m 1 20.00 dBr 30 d	4:15:23	11 11.93 dB	G_Ant1_F	ligh_2462		40	3.09.2022 //
10 dBm     .38.18 dBm       0 dBm     2.483500 GHz       -10 dBm     D1 -12.430 dBm       -20 dBm	Spectrur Ref Leve Att Count 200	EP.2022 1 m 1 20.00 dBr 30 d	4:15:23	11 11.93 dB	G_Ant1_F	ligh_2462		420	0.09.2022 //
0 dBm     2.483500 GH2       -10 dBm     D1 -12.430 dBm       -20 dBm     -20 dBm       -30 dBm     -30 dBm       -50 dBm     -30 dBm       -70 dBm     -33 dBm       -70 dBm     -33 dBm       -70 dBm     -33 dBm	Spectrur Ref Leve Att Count 200	EP.2022 1 m 1 20.00 dBr 30 d	4:15:23 n Offset 8 SWT	11 11.93 dB	G_Ant1_F	ligh_2462			7.57 dBm
-10 dBm         D1         -12.430 dBm           -20 dBm         -30 dBm         -30 dBm         -30 dBm           -30 dBm         -30 dBm         -30 dBm         -30 dBm           -40 dBm         -30 dBm         -30 dBm         -30 dBm           -50 dBm         -30 dBm         -30 dBm         -30 dBm           -60 dBm         -30 dBm         -30 dBm         -30 dBm           -70 dBm         -30 dBm         -30 dBm         -30 dBm           M1         1         2.4835 GHz         -38.19 dBm         -30 dBm           M3         1         2.5 GHz         -38.19 dBm         -30 dBm           M4         1         2.483522 GHz         -38.19 dBm         -30 dBm	Spectrur Ref Leve Att Count 200 Pk View	m 1 20.00 dBr 30 d	4:15:23 n Offset 3 SWT	11 11.93 dB	G_Ant1_F	Iigh_2462 Mode Auto F		2.44	7.57 dBm 64440 GHz
D1         -12.430 dBm           -20 dBm         -30 dBm,	Spectrur Ref Leve Att Count 200 1Pk View 10 dBm-	m 1 20.00 dBr 30 d	4:15:23 n Offset 3 SWT	11 11.93 dB	G_Ant1_F	Iigh_2462 Mode Auto F		2.44	7.57 dBm 64440 GHz 38.18 dBm
-30 dBm 40 dBm -50 dBm -50 dBm -50 dBm -70	Spectrur RefLeve Att Count 200 IPk View 10 dBm- 0 dBm-	m 1 20.00 dBr 30 d	4:15:23 n Offset 3 SWT	11 11.93 dB	G_Ant1_F	Iigh_2462 Mode Auto F		2.44	7.57 dBm 64440 GHz 38.18 dBm
Marker         Marker         Marker         Marker         Marker         Marker         Stop 2.55 GHz         Stop 2.55 GHz           Marker         -70 dBm         -70 dBm <td< td=""><td>Spectrur RefLeve Att Count 200 IPk View 10 dBm- 0 dBm-</td><td>n 1 20.00 dBr 30 d 1/200</td><td>4:15:23 n Offset 3 SWT</td><td>11 11.93 dB</td><td>G_Ant1_F</td><td>Iigh_2462 Mode Auto F</td><td></td><td>2.44</td><td>7.57 dBm 64440 GHz 38.18 dBm</td></td<>	Spectrur RefLeve Att Count 200 IPk View 10 dBm- 0 dBm-	n 1 20.00 dBr 30 d 1/200	4:15:23 n Offset 3 SWT	11 11.93 dB	G_Ant1_F	Iigh_2462 Mode Auto F		2.44	7.57 dBm 64440 GHz 38.18 dBm
Mile         Mile <th< td=""><td>Spectrur Ref Leve Att Count 200 1Pk View 10 dBm- -10 dBm-</td><td>n 120.00 dBr 30 d</td><td>4:15:23 n Offset 3 SWT</td><td>11 11.93 dB</td><td>G_Ant1_F</td><td>Iigh_2462 Mode Auto F</td><td></td><td>2.44</td><td>7.57 dBm 64440 GHz 38.18 dBm</td></th<>	Spectrur Ref Leve Att Count 200 1Pk View 10 dBm- -10 dBm-	n 120.00 dBr 30 d	4:15:23 n Offset 3 SWT	11 11.93 dB	G_Ant1_F	Iigh_2462 Mode Auto F		2.44	7.57 dBm 64440 GHz 38.18 dBm
Main         Main         Main           -50 dBm         -50 dBm         -50 dBm           -60 dBm         -70 dBm         -70 dBm           -70 dBm         -70 dBm         -70 dBm           -70 dBm         -70 dBm         -70 dBm           Marker         -70 dBm         -70 dBm           M1         1         2.46444 GHz         7.57 dBm           M2         1         2.4835 GHz         -38.18 dBm           M3         1         2.5 GHz         -38.18 dBm           M4         1         2.483522 GHz         -38.19 dBm	Spectrur Ref Leve Att Count 200 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm-	n 120.00 dBr 30 d	4:15:23 n Offset 3 SWT	11.93 dB ( 246.5 µs (	C_Ant1_H	Iigh_2462 Mode Auto F		2.44	7.57 dBm 64440 GHz 38.18 dBm
-60 dBm         -70 dBm         -70 dBm         Stop 2.55 GHz           Start 2.44 GHz         691 pts         Stop 2.55 GHz           Marker	Spectrur Rof Leve Att Count 200 1Pk View 10 dBm- 0 dBm- -10 dBm- -20 dBm-	n 120.00 dBr 30 d	4:15:23 n Offset 3 SWT	11.93 dB ( 246.5 µs (	G_Ant1_F RBW 100 kHz VBW 300 kHz	Iigh_2462 Mode Auto F		2.44	7.57 dBm 64440 GHz 38.18 dBm
Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.46444 GHz         7.57 dBm         Function         Function Result           M2         1         2.4835 GHz         -38.18 dBm         Function         Function Result           M3         1         2.5 GHz         -38.18 dBm         Function         Function Result           M4         1         2.483522 GHz         -38.18 dBm         Function         Function Result	Spectrur Rof Leve Att Count 200 1Pk View 10 dBm- 0 dBm- -10 dBm- -20 dBm-	n 120.00 dBr 30 d	4:15:23 n Offset 3 SWT	11.93 dB ( 246.5 µs (	RBW 100 kHz VBW 300 kHz	Mode Auto F           M1[1]           M2[1]	FT	2.4	7.57 dBm 64440 GHz 38.18 dBm 83500 GHz
Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.46444 GHz         7.57 dBm         Function         Function Result           M2         1         2.4835 GHz         -38.18 dBm         Function         Function Result           M3         1         2.5 GHz         -38.18 dBm         Function         Function Result           M4         1         2.483522 GHz         -38.18 dBm         Function         Function Result	Spectrur Ref Leve Att Count 200 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm-	n 120.00 dBr 30 d	4:15:23 n Offset 3 SWT	11.93 dB ( 246.5 µs (	RBW 100 kHz VBW 300 kHz	Mode Auto F           M1[1]           M2[1]	FT	2.4	7.57 dBm 64440 GHz 38.18 dBm 83500 GHz
Start 2.44 GHz         691 pts         Stop 2.55 GHz           Marker         Y-value         Function         Function Result           M1         1         2.46444 GHz         7.57 dBm            M2         1         2.4835 GHz         -38.18 dBm            M3         1         2.5 GHz         -38.18 dBm            M4         1         2.483522 GHz         -38.18 dBm	Spectrur Ref Leve Att Count 200 1Pk View 10 dBm— -10 dBm— -20 dBm— -30 dBm— -30 dBm— -50 dBm—	n 120.00 dBr 30 d	4:15:23 n Offset 3 SWT	11.93 dB ( 246.5 µs (	RBW 100 kHz VBW 300 kHz	Mode Auto F           M1[1]           M2[1]	FT	2.4	7.57 dBm 64440 GHz 38.18 dBm 83500 GHz
Marker         Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.46444 GHz         7.57 dBm <td>Spectrur Ref Leve Att Count 200 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- -50 dBm-</td> <td>n 120.00 dBr 30 d</td> <td>4:15:23 n Offset 3 SWT</td> <td>11.93 dB ( 246.5 µs (</td> <td>RBW 100 kHz VBW 300 kHz</td> <td>Mode Auto F           M1[1]           M2[1]</td> <td>FT</td> <td>2.4</td> <td>7.57 dBm 64440 GHz 38.18 dBm 83500 GHz</td>	Spectrur Ref Leve Att Count 200 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- -50 dBm-	n 120.00 dBr 30 d	4:15:23 n Offset 3 SWT	11.93 dB ( 246.5 µs (	RBW 100 kHz VBW 300 kHz	Mode Auto F           M1[1]           M2[1]	FT	2.4	7.57 dBm 64440 GHz 38.18 dBm 83500 GHz
Marker         Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.46444 GHz         7.57 dBm <td>Spectrur Ref Leve Att Count 200 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- -50 dBm-</td> <td>n 120.00 dBr 30 d</td> <td>4:15:23 n Offset 3 SWT</td> <td>11.93 dB ( 246.5 µs (</td> <td>RBW 100 kHz VBW 300 kHz</td> <td>Mode Auto F           M1[1]           M2[1]</td> <td>FT</td> <td>2.4</td> <td>7.57 dBm 64440 GHz 38.18 dBm 83500 GHz</td>	Spectrur Ref Leve Att Count 200 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- -50 dBm-	n 120.00 dBr 30 d	4:15:23 n Offset 3 SWT	11.93 dB ( 246.5 µs (	RBW 100 kHz VBW 300 kHz	Mode Auto F           M1[1]           M2[1]	FT	2.4	7.57 dBm 64440 GHz 38.18 dBm 83500 GHz
Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.46444 GHz         7.57 dBm	Spectrur Rof Leve Att Count 200 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm- -50 dBm- -50 dBm- -70 dBm-	EP.2022 1 n 30 dBr 30 d //200	4:15:23 n Offset 3 SWT	11.93 dB ( 246.5 µs (	G_Ant1_F	Mode Auto F           M1[1]           M2[1]	FT	2.44 -: 2.44	7.57 dBm 64440 GHz 38.18 dBm 83500 GHz
M2         1         2.4835 GHz         -38.18 dBm           M3         1         2.5 GHz         -48.66 dBm           M4         1         2.483522 GHz         -38.18 dBm	Spectrur Rof Leve Att Count 200 O IPk View 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm	EP.2022 1 n 30 dBr 30 d //200	4:15:23 n Offset 3 SWT	11.93 dB ( 246.5 µs (	G_Ant1_F	Mode Auto F           M1[1]           M2[1]	FT	2.44 -: 2.44	7.57 dBm 64440 GHz 38.18 dBm 83500 GHz
M3         1         2.5 GHz         -48.66 dBm           M4         1         2.483522 GHz         -38.18 dBm	Spectrur           Ref Leve           Att           Count 200           1Pk View           10 dBm           -0 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm           -50 dBm           -50 dBm           -50 dBm           -50 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm           Start 2.44           Marker           Type	BP.2022 1 BP.2022 1 BP.2000 dBr 30 d D/200 D1 -12.430 D1 -12.430 C GHz ef Trc	4:15:23	11.93 dB ( 246.5 μs (	G_Ant1_H     RBW 100 kHz     VBW 300 kHz     VBW 300 kHz	Mode Auto F           M1[1]           M2[1]           M2[1]           M2[1]           S           Function	FT	2.4 2.4	7.57 dBm 64440 GHz 38.18 dBm 83500 GHz
	Spectrur           Rof Leve           Att           Count 200           IPk View           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm           -50 dBm           -50 dBm           Start 2.44           Marker           Type Re           M1	BP.2022 1 BP.2022 1 BP.2020 1	4:15:23	11.93 dB (246.5 µs (	G_Ant1_F      RBW 100 kHz      VBW 300 kHz      VBW 300 kHz      O	Mode Auto F Mode Auto F M1[1] M2[1] M2[1]	FT	2.4 2.4	7.57 dBm 64440 GHz 38.18 dBm 83500 GHz
Neasuring 13.09.2022	Spectrur           Ref Leva           Att           Count 200           Other           OdBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -60 dBm           -70 dBm           Start 2.44           Marker           Type Re           M1	BP.2022 1 BP.2022 1 Pl 20.00 dBr 30 d 1/200 	4:15:23	11.93 dB 246.5 μs 246.5 μs 44 GHz 25 GHz 2.5 GHz	RBW 100 kHz           RBW 300 kHz           VBW 300 kHz           VBW 300 kHz           0	Microsofter           Iigh_2462           Mode Auto F           M1[1]           M2[1]           M2[1]           S           Function	FT	2.4 2.4	7.57 dBm 64440 GHz 38.18 dBm 83500 GHz

			11112	OSISO_Ant				
Spectrun								□
-	I 20.00 dBr	n Offset 1	11.93 dB	RBW 100 kHz				( v
🖶 Att	30 d			VBW 300 kHz	Mode Auto F	FT		
Count 200 1Pk View	/200							
THK AIGM					M1[1]			7.22 dBm
10 dBm								6950 GHz
20 0011					M2[1]		Ulubelan.	0.83 dBm ២៦០០ GHz
0 dBm					I	1	Z.40	
-10 dBm	D.4 . 40 . 700	a da er						
-20 dBm	D1 -12.780	Jasm						
-20 ubm-						Mt		
-30 dBm								him
-40 dBm					date for the second	Maulinum		- MAL
ton of some live in	and when the	المراجع المراجع	. ruchalau	mandenne	may man report	w		
-60 dBm								
-70 dBm								
-/o ubiii								
Start 2.3 (	Hz			691 pt	s		Stop 2	2.43 GHz
Marker								
Type Re M1	f Trc 1	X-value	95 GHz	Y-value 7.22 dBm	Function	Fund	tion Result	
M2	1		2.4 GHz	-30.83 dBm				
M3 M4	1		39 GHz	-42.32 dBm				
	1	2.3998	SS GHZ	-29.94 dBm				
	1				, ,	and the second s	4.965	09.2022
Date: 13.5	EP.2022 1			0SISO_Ant			4,441	.09.2022
							4 <b>20</b> <sup>10</sup>	.09.2022 //
Date: 13.5		4:22:45	11N20		] Meaning		440 <sup>10</sup>	.09.2022 //
Spectrum Ref Leve	n   20.00 dBr 30 d	4:22:45 m Offset 1	11N20	0SISO_Ant		.62	440 <sup>10</sup>	.09.2022 //
Spectrum Ref Leve Att Count 200	n   20.00 dBr 30 d	4:22:45 m Offset 1	11N20	OSISO_Ant		.62	<b>4/4</b> <sup>10</sup>	.09.2022 //
Spectrum Ref Leve	n   20.00 dBr 30 d	4:22:45 m Offset 1	11N20	OSISO_Ant		.62		092022 ₩ ▼ 7.64 dBm
Spectrum Ref Leve Att Count 200	n I 20.00 dBr 30 d /200	4:22:45 n Offset 1 B SWT 2	11N20	OSISO_Ant	Mode Auto F	.62	2.46	7.64 dBm 4440 GHz
Spectrum Ref Leve Att Count 200 1Pk View 10 dBm-	n I 20.00 dBr 30 d /200	4:22:45	11N20	OSISO_Ant	Mode Auto F	.62	2.46	7.64 dBm 4440 GHz 8.65 dBm
Spectrun Ref Leve Att Count 200 1Pk View	n I 20.00 dBr 30 d /200	4:22:45 n Offset 1 B SWT 2	11N20	OSISO_Ant	Mode Auto F	.62	2.46	7.64 dBm 4440 GHz
Spectrum Ref Leve Att Count 200 1Pk View 10 dBm-	n   20.00 dBr 30 d /200	4:22:45 n Offset 1 B SWT 2	11N20	OSISO_Ant	Mode Auto F	.62	2.46	7.64 dBm 4440 GHz 8.65 dBm
Spectrum Ref Leve Att Count 200 1Pk View 10 dBm	n I 20.00 dBr 30 d /200	4:22:45 n Offset 1 B SWT 2	11N20	OSISO_Ant	Mode Auto F	.62	2.46	7.64 dBm 4440 GHz 8.65 dBm
Spectrum Ref Leve Att Count 200 1Pk View 10 dBm -10 dBm -20 dBm	n   20.00 dBr 30 d /200	4:22:45 n Offset 1 B SWT 2	11N2( 11.93 dB 246.5 µs	OSISO_Ant RBW 100 kHz VBW 300 kHz	Mode Auto F	.62	2.46	7.64 dBm 4440 GHz 8.65 dBm
Spectrum Ref Leve Att Count 200 1Pk View 10 dBm	n   20.00 dBr 30 d /200	4:22:45 n Offset 1 B SWT 2	11N20	OSISO_Ant RBW 100 kHz VBW 300 kHz	Mode Auto F	.62	2.46	7.64 dBm 4440 GHz 8.65 dBm
Spectrum Ref Leve Att Count 200 1Pk View 10 dBm -10 dBm -20 dBm	n   20.00 dBr 30 d /200	4:22:45 n Offset 1 B SWT 2	11N2( 11.93 dB 246.5 µs	0SISO_Ant  RBW 100 kHz VBW 300 kHz	Mode Auto F 	.62	2.46 -3 2.48	7.64 dBm 4440 GHz 8.65 dBm
Spectrum Ref Leve Att Count 200 1Pk View 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm	n   20.00 dBr 30 d /200	4:22:45 n Offset 1 B SWT 2	11N2( 11.93 dB 246.5 µs	0SISO_Ant  RBW 100 kHz VBW 300 kHz	Mode Auto F 	.62	2.46 -3 2.48	7.64 dBm 4440 GHz 8.65 dBm 3500 GHz
Spectrum Ref Leve Att Count 200 1Pk View 10 dBm -10 dBm -20 dBm -30 dBm	n   20.00 dBr 30 d /200	4:22:45 n Offset 1 B SWT 2	11N2( 11.93 dB 246.5 µs	0SISO_Ant  RBW 100 kHz VBW 300 kHz	Mode Auto F 	.62	2.46 -3 2.48	7.64 dBm 4440 GHz 8.65 dBm 3500 GHz
Spectrum Ref Leve Att Count 200 1Pk View 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm	n   20.00 dBr 30 d /200	4:22:45 n Offset 1 B SWT 2	11N2( 11.93 dB 246.5 µs	0SISO_Ant  RBW 100 kHz VBW 300 kHz	Mode Auto F 	.62	2.46 -3 2.48	7.64 dBm 4440 GHz 8.65 dBm 3500 GHz
Spectrum Ref Leve Att Count 200 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm -60 dBm	n   20.00 dBr 30 d /200	4:22:45 n Offset 1 B SWT 2	11N2( 11.93 dB 246.5 µs	0SISO_Ant  RBW 100 kHz VBW 300 kHz	Mode Auto F 	.62	2.46 -3 2.48	7.64 dBm 4440 GHz 8.65 dBm 3500 GHz
Spectrum Ref Leve Att Count 200 P1Pk View 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	n   20.00 dBr 30 d /200	4:22:45 n Offset 1 B SWT 2	11N2( 11.93 dB 246.5 µs	0SISO_Ant  RBW 100 kHz VBW 300 kHz	Mode Auto F 	.62	2.46 -3 2.48	7.64 dBm 4440 GHz 8.65 dBm 3500 GHz
Spectrum Ref Leve Att Count 200 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm -60 dBm	D1 -12.360	4:22:45 n Offset 1 B SWT 2	11N2( 11.93 dB 246.5 µs	0SISO_Ant  RBW 100 kHz VBW 300 kHz	Mode Auto F	.62	2.46 -3 2.48	7.64 dBm 4440 GHz 8.65 dBm 3500 GHz
Spectrum Ref Leve Att Count 200 1Pk View 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm	D1 -12.360	4:22:45	11N2( 11.93 dB 246.5 µs 446.5 µs	0SISO_Ant  RBW 100 kHz VBW 300 kHz	Mode Auto F M1[1] M2[1] M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 	62	2.46 -3 2.48	7.64 dBm 4440 GHz 8.65 dBm 3500 GHz
Spectrum Ref Leve Att Count 200 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	n 1 20.00 dBr 30 d /200 D1 -12.36( ) GHz f Trc	4:22:45	11N2( 11.93 dB ( 246.5 µs (	0SISO_Ant      RBW 100 kHz      VBW 300 kHz      VBW 300 kHz      O	Mode Auto F	62	2.46 -3 2.48	7.64 dBm 4440 GHz 8.65 dBm 3500 GHz
Spectrum           Ref Leve           Att           Count 200           1Pk View           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm           -50 dBm           -70 dBm           Start 2.44           Marker           Type         Re           M1	1 20.00 dBr 30 d /200 D1 -12.36( GHz f Trc 1	4:22:45	11N2( 11.93 dB 246.5 µs 44.5 µs 44.6Hz	OSISO_Ant  RBW 100 kHz VBW 300 kHz VBW 300 kHz	Mode Auto F M1[1] M2[1] M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 	62	2.46 -3 2.48	7.64 dBm 4440 GHz 8.65 dBm 3500 GHz
Spectrum           Ref Leve           Att           Count 200           1D dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm           -70 dBm           Start 2.44           Marker           Type         Re           M1           M2           M3	1 20.00 dBr 30 d /200 D1 -12.36( GHz f Trc 1 1 1	4:22:45	11.93 dB ( 246.5 µs (	0SISO_Ant  RBW 100 kHz VBW 300 kHz VBW 300 kHz  KBW 100 kHz  VBW 300 k	Mode Auto F M1[1] M2[1] M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 	62	2.46 -3 2.48	7.64 dBm 4440 GHz 8.65 dBm 3500 GHz
Spectrum Ref Leve Att Count 200 P1Pk View 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm -7	D1 -12.360 GHz	4:22:45	11.93 dB ( 246.5 µs (	OSISO_Ant  RBW 100 kHz VBW 300 kHz VBW 300 kHz  KHZ KHZ KHZ KHZ KHZ KHZ KHZ KHZ KHZ KH	Mode Auto F M1[1] M2[1] M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 	62	2.46 -3 2.48	7.64 dBm 4440 GHz 8.65 dBm 3500 GHz

### **Appendix F: Duty Cycle**

# Test Data

### **Environmental Conditions**

Temperature:	24 °C
<b>Relative Humidity:</b>	48 %
ATM Pressure:	101.0 kPa

The testing was performed by Glenn. Jiang on 2022-09-13.

EUT operation mode: Transmitting

Test Result Compliant.

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
		2412	4.28	4.42	96.83
11B	Ant1	2437	4.28	4.42	96.83
		2462	4.26	4.42	96.38
		2412	0.68	0.74	91.89
11G	Ant1	2437	0.69	0.75	92.00
		2462	0.69	0.75	92.00
		2412	0.64	0.70	91.43
11N20SISO	Ant1	2437	0.65	0.71	91.55
		2462	0.65	0.71	91.55

# **Test Graphs**

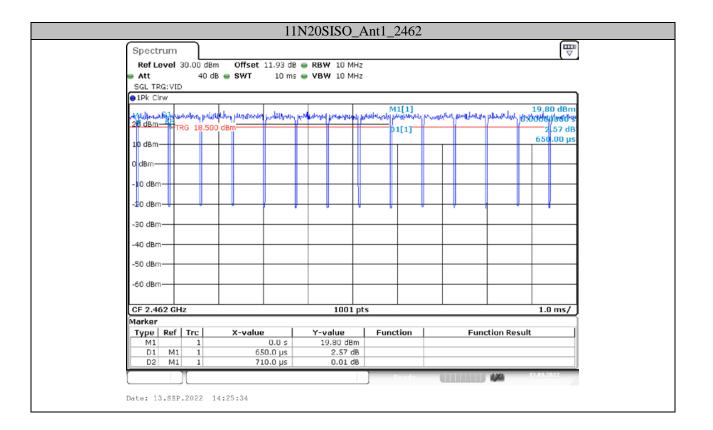
		11B_Ant1	_2412		
Spectrum			_		
Ref Level 30.00 d	Bm Offset 11.92 de	🔵 RBW 10 MHz			$\forall$
		VBW 10 MHz			
SGL TRG: VID					
●1Pk Cirw					
	<u> </u>		M1[1]		3.53 dBm .3200 ms
20 dBm			D1[1]		-0.25 dB
10 dBm	ou asm			4	.2800 ms
0 dBm					
-10 dBm					
-20 dBm		l l		,	
-30 dBm					
10 10 -					
-40 dBm					
-50 dBm					
-60 d8m-					
-60 dBm					
CF 2.412 GHz		1001 pt			2.0 ms/
Marker		1001 pt	3		2.0 (15)
Type   Ref   Trc	X-value	Y-value	Function	Function Result	
M1 1	1.32 ms	23.53 dBm			
D1 M1 1 D2 M1 1	4.28 ms 4.42 ms	-0.25 dB 0.02 dB			
			Peady	430 13.	09.2022
			)		
Date: 13.SEP.2022	14:04:35				
		11B Antl	2/37		
		11B_Ant1	_2437		
Spectrum		11B_Ant1	_2437		
Ref Level 30.00 d		RBW 10 MHz	_2437		
Ref Level 30.00 d Att 40			_2437		
Ref Level 30.00 di Att 40 SGL TRG: VID		RBW 10 MHz	_2437		
Ref Level 30.00 d Att 40	dB <b>= SWT</b> 20 ms	RBW 10 MHz		2	
Ref Level 30.00 di Att 40 SGL TRG: VID 1Pk Cirw		RBW 10 MHz	M1[1]		3.73 dBm .14มูบ ms
Ref Level 30.00 di Att 40 SGL TRG:VID 91Pk Cirw	dB <b>• SWT</b> 20 ms	RBW 10 MHz			3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 di           Att         40           SGL TRG: VID           1Pk Cirw           20 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .14มูบ ms
Ref Level 30.00 di           Att         40           SGL TRG: VID           1Pk Clrw           20 dBm           TRG 14.9           10 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 dl           Att         40           SGL TRG: VID           1Pk Cirw           20 dBm         Mt           20 dBm         TRG 14.9           10 dBm         0 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 di           Att         40           SGL TRG: VID           1Pk Clrw           20 dBm           TRG 14.9           10 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 di           Att         40           SGL TRG: VID           1Pk Cirw           20 dBm           Mr           20 dBm           TRG 14.9           10 dBm           -10 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 di           Att         40           SGL TRG: VID           IPk Cirw           20 dBm           TRG 14.9           10 dBm           -20 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 di           Att         40           SGL TRG: VID           1Pk Cirw           20 dBm           Mr           20 dBm           TRG 14.9           10 dBm           -10 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 di           Att         40           SGL TRG: VID           1Pk Cirw           20 dBm           M           20 dBm           TRG 14.9           10 dBm           -10 dBm           -20 dBm           -30 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 di           Att         40           SGL TRG: VID           IPk Cirw           20 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 di           Att         40           SGL TRG: VID           1Pk Cirw           20 dBm           M           20 dBm           TRG 14.9           10 dBm           -10 dBm           -20 dBm           -30 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 di           Att         40           SGL TRG: VID           1Pk Cirw           20 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 di           Att         40           SGL TRG: VID           IPk Cirw           20 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 di           Att         40           SGL TRG: VID           1Pk Cirw           20 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm	dB <b>• SWT</b> 20 ms	RBW 10 MHz	M1[1]		3.73 dBm .1400 ms -0.18 dB
Ref Level 30.00 di           Att         40           SGL TRG: VID           1Pk Cirw           20 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -60 dBm           CF 2.437 GHz           Marker	dB <b>• SWT</b> 20 ms	RBW 10 MHz     VBW 10 MHz	M1[1] D1[1]		3.73 dBm .1400 ms -0.18 dB .2800 ms
Ref Level 30.00 di           Att         40           SGL TRG: VID           1Pk Cirw           20 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -60 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm           -60 dBm           -60 dBm           -70 dBm	dB • SWT 20 ms	RBW 10 MHz     VBW 10 MHz      VBW      VBW 10 MHz      VBW      V	M1[1]		3.73 dBm .1400 ms -0.18 dB .2800 ms
Ref Level 30.00 di           Att         40           SGL TRG: VID           ● 1Pk Cirw           20 dBm         TRG 14.9           10 dBm         0 dBm           -10 dBm         -20 dBm           -20 dBm         -30 dBm           -30 dBm         -50 dBm           -50 dBm         -50 dBm           -60 dBm         -60 dBm           Type         Ref         Trc           Matker         1         1	dB • SWT 20 ms	RBW 10 MHz     VBW 10 MHz     VBW 10 MHz	M1[1] D1[1]		3.73 dBm .1400 ms -0.18 dB .2800 ms
Ref Level 30.00 di           Att         40           SGL TRG: VID           1Pk Cirw           20 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -60 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm           -60 dBm           -60 dBm           -70 dBm	dB • SWT 20 ms	RBW 10 MHz     VBW 10 MHz      VBW      VBW 10 MHz      VBW      VBW 10 MHz      VBW      VBW	M1[1] D1[1]		3.73 dBm .1400 ms -0.18 dB .2800 ms
Ref Level 30.00 di           Att         40           SGL TRG: VID           ● 1Pk Cirw           20 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -60 dBm           -60 dBm           -10 dBm           -10 dBm	dB • SWT 20 ms	RBW 10 MHz     VBW 10 MHz      VBW 10 MHz      10     10     10     10     10     10     10     10     10     10     10     10     10     10     10     10     1	M1[1] D1[1]		3.73 dBm .1400 ms -0.18 dB .2800 ms
Ref Level 30.00 di           Att         40           SGL TRG: VID           ● 1Pk Cirw           20 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -60 dBm           -20 dBm           -30 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm	dB • SWT 20 ms	RBW 10 MHz     VBW 10 MHz      VBW 10 MHz      10     10     10     10     10     10     10     10     10     10     10     10     10     10     10     10     1	M1[1] D1[1]	Function Result	3.73 dBm .1400 ms -0.18 dB .2800 ms
Ref Level 30.00 di           Att         40           SGL TRG: VID           ● 1Pk Cirw           20 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -60 dBm           -60 dBm           -10 dBm           -10 dBm	dB • SWT 20 ms	RBW 10 MHz     VBW 10 MHz      VBW 10 MHz      10     10     10     10     10     10     10     10     10     10     10     10     10     10     10     10     1	M1[1] D1[1]	Function Result	3.73 dBm .1400 ms -0.18 dB .2800 ms

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CF 2.412 GHz		1001 pts			1.0 ms/												
Marker   Type   Ref   Trc	X-value	Y-value	Function	Function Resu													
M1 1	-40.0 µs	19.47 dBm	Function	Function Resul													
D1 M1 1 D2 M1 1	640.0 µs 700.0 µs	4.85 dB -0.61 dB															
			Ready	4/4	13.09.2022												
Data: 12 655 2022	14:21:35																
Date: 13.35F.2022																	
Date: 13.55F.2022	11	N20SISO_A	.nt1_2437														
Spectrum	11	N20SISO_A	.nt1_2437		₩												
Spectrum Ref Level 30.00	dBm Offset 11.93 dB	● RB₩ 10 MHz	.nt1_2437		₩ ▽												
Spectrum Ref Level 30.00 Att 40 SGL TRG:VID	dBm Offset 11.93 dB		.nt1_2437		₩ V												
Spectrum Ref Level 30.00 d Att 40 SGL TRG: VID	dBm <b>Offset</b> 11.93 dB dB <b>⊕ SWT</b> 10 ms	<ul> <li>RBW 10 MHz</li> <li>VBW 10 MHz</li> </ul>															
Spectrum Ref Level 30.00 d Att 40 SGL TRG: VID	dBm <b>Offset</b> 11.93 dB dB <b>⊕ SWT</b> 10 ms	<ul> <li>RBW 10 MHz</li> <li>VBW 10 MHz</li> </ul>		want bereford houses for													
Spectrum Ref Level 30.00 d Att 40 SGL TRG:VID	dBm <b>Offset</b> 11.93 dB dB <b>⊕ SWT</b> 10 ms	<ul> <li>RBW 10 MHz</li> <li>VBW 10 MHz</li> </ul>		where provessing and													
Spectrum Ref Level 30.00 d Att 40 SGL TRG:VID IPk Clrw 20 dBm TRG 18.	dBm <b>Offset</b> 11.93 dB dB <b>⊕ SWT</b> 10 ms	<ul> <li>RBW 10 MHz</li> <li>VBW 10 MHz</li> </ul>		levered branch branch bag	19.08 dBm សាសារ នាក់ស្រ 4.50 dB												
Spectrum Ref Level 30.00 d Att 40 SGL TRG:VID IPk Cirw 20 dBm TRG 18. 0 dBm 0 dBm	dBm <b>Offset</b> 11.93 dB dB <b>⊕ SWT</b> 10 ms	<ul> <li>RBW 10 MHz</li> <li>VBW 10 MHz</li> </ul>		loging perfectively house of the	19.08 dBm សាសារ នាក់ស្រ 4.50 dB												
Spectrum           Ref Level 30.00 d           Att         40           SGL TRG: VID           IPk Cirw           O dBm         TRG 18:           0 dBm         10 dBm	dBm <b>Offset</b> 11.93 dB dB <b>⊕ SWT</b> 10 ms	<ul> <li>RBW 10 MHz</li> <li>VBW 10 MHz</li> </ul>			19.08 dBm សាសារ នាក់ស្រ 4.50 dB												
Spectrum           Ref Level 30.00 d           Att         40           SGL TRG: VID           1Pk Clrw           20 dBm         TRG 18.           0 dBm         10 dBm           10 dBm           20 dBm	dBm <b>Offset</b> 11.93 dB dB <b>⊕ SWT</b> 10 ms	<ul> <li>RBW 10 MHz</li> <li>VBW 10 MHz</li> </ul>		inter platertynel prosesserty god	19.08 dBm សាសារ នាក់ស្រ 4.50 dB												
Spectrum           Ref Level 30.00 d           Att         40           SGL TRG: VID           IPk Cirw           O dBm         TRG 18:           0 dBm         10 dBm           20 dBm         -30 dBm	dBm <b>Offset</b> 11.93 dB dB <b>⊕ SWT</b> 10 ms	<ul> <li>RBW 10 MHz</li> <li>VBW 10 MHz</li> </ul>			19.08 dBm សាសារ នាក់ស្រ 4.50 dB												
Spectrum           Ref Level 30.00           Att         40           SGL TRG: VID         178           IPk Cirw         178         18.           O dBm         TRG 18.         10           O dBm         10         10         10           -30 dBm         -40 dBm         -40 dBm         -40	dBm <b>Offset</b> 11.93 dB dB <b>⊕ SWT</b> 10 ms	<ul> <li>RBW 10 MHz</li> <li>VBW 10 MHz</li> </ul>			19.08 dBm សាសារ នាក់ស្រ 4.50 dB												
Spectrum           Ref Level 30.00 d           Att         40           SGL TRG: VID           IPk Cirw           O dBm         TRG 18:           0 dBm         10 dBm           20 dBm         -30 dBm	dBm <b>Offset</b> 11.93 dB dB <b>⊕ SWT</b> 10 ms	<ul> <li>RBW 10 MHz</li> <li>VBW 10 MHz</li> </ul>			19.08 dBm សាសារ នាក់ស្រ 4.50 dB												
Spectrum           Ref Level 30.00           Att         40           SGL TRG: VID           IPR Cirw           Add Bm         TRG 18.           0 dBm         TRG 18.           10 dBm         TRG 18.           10 dBm         TRG 18.           10 dBm         TRG 18.	dBm <b>Offset</b> 11.93 dB dB <b>⊕ SWT</b> 10 ms	<ul> <li>RBW 10 MHz</li> <li>VBW 10 MHz</li> </ul>			19.08 dBm សាសារ នាក់ស្រ 4.50 dB												
Spectrum           Ref Level 30.00 d           Att         40           SGL TRG: VID           IPk Cirw           O dBm         TRG 18:           0 dBm         TRG 18:           0 dBm         10 dBm           -30 dBm         -30 dBm           -50 dBm         -50 dBm	dBm <b>Offset</b> 11.93 dB dB <b>⊕ SWT</b> 10 ms	<ul> <li>RBW 10 MHz</li> <li>VBW 10 MHz</li> </ul>	M1[1] 		19.08 dBm សាសារ នាក់ស្រ 4.50 dB												
Spectrum           Ref Level 30.00           Att         40           SGL TRG: VID           IPR Cirw           Add Bm         TRG 18.           0 dBm         TRG 18.           -30 dBm         -40 dBm           -50 dBm         -60 dBm           CF 2.437 GHz         Marker	ilem Offset 11.93 dB odB SWT 10 ms southatting particular, arthology 300 dBm	RBW 10 MHz     VBW 10 MHz     VBW 10 MHz	M1[1] J-whi Jayahana Ma D1[1] 0 0 0 0 0 0 0 0 0 0 0 0 0		19.08 dBm w/weit/200 μs 4.50 dB 65).00 μs 1.0 ms/												
Spectrum           Ref Level 30.00 c           Att         40           SGL TRG: VID           IPk Cirw           Mitwole J. 10 P           0 dBm           0 dBm           10 dBm           -30 dBm           -60 dBm           -50 dBm           -60 dBm           -60 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm           -60 dBm           -60 dBm           -70 dBm <tr td=""> <t< td=""><td>iBm         Offset         11.93 dB           idB         SWT         10 ms           idB         SWT         10 ms             idB         SWT         10 ms             idB         SWT         10 ms             idB         SWT         10 ms             idB         SWT         10 ms             idB         SWT         10 ms             idB         IdB         idB             idB         IdB         IdB</td><td>RBW 10 MHz     VBW 10 MHz     VBW 10 MHz</td><td>M1[1] </td><td>Function Resul</td><td>19.08 dBm w/weit/200 μs 4.50 dB 65).00 μs 1.0 ms/</td></t<></tr> <tr><td>Spectrum           Ref Level 30.00 c           Att         40           SGL TRG: VID           • IPk Cirw           • Mitude of the fill of the</td><td>iBm       Offset       11.93 dB         idB       SWT       10 ms         idB       IdB       idB         idB</td><td>RBW 10 MHz     VBW 10 MHz     VBW 10 MHz</td><td>M1[1] J-whi Jayahana Ma D1[1] 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>Function Resul</td><td>19.08 dBm w/weit/200 μs 4.50 dB 65).00 μs 1.0 ms/</td></tr> <tr><td>Spectrum           Ref Level 30.00 c           Att         40           SGL TRG: VID           IPk Clrw           IPk Clrw           IO dBm         TRG 18.           0 dBm         -10 dBm           -30 dBm         -30 dBm           -50 dBm         -50 dBm           -60 dBm         -60 dBm           Marker         Type           M1         1           01 M1         1</td><td>JBm         Offset 11.93 dB           i dB         SWT         10 ms           swith         10 ms         10 ms           swith</td><td>RBW 10 MHz     VBW 10 MHz     VBW 10 MHz</td><td>M1[1] J-whi Jayahana Ma D1[1] 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td></td><td>19.08 dBm w/weit/200 μs 4.50 dB 65).00 μs 1.0 ms/</td></tr>	iBm         Offset         11.93 dB           idB         SWT         10 ms           idB         SWT         10 ms             idB         SWT         10 ms             idB         SWT         10 ms             idB         SWT         10 ms             idB         SWT         10 ms             idB         SWT         10 ms             idB         IdB         idB	RBW 10 MHz     VBW 10 MHz     VBW 10 MHz	M1[1] 	Function Resul	19.08 dBm w/weit/200 μs 4.50 dB 65).00 μs 1.0 ms/	Spectrum           Ref Level 30.00 c           Att         40           SGL TRG: VID           • IPk Cirw           • Mitude of the fill of the	iBm       Offset       11.93 dB         idB       SWT       10 ms         idB       IdB       idB         idB	RBW 10 MHz     VBW 10 MHz     VBW 10 MHz	M1[1] J-whi Jayahana Ma D1[1] 0 0 0 0 0 0 0 0 0 0 0 0 0	Function Resul	19.08 dBm w/weit/200 μs 4.50 dB 65).00 μs 1.0 ms/	Spectrum           Ref Level 30.00 c           Att         40           SGL TRG: VID           IPk Clrw           IPk Clrw           IO dBm         TRG 18.           0 dBm         -10 dBm           -30 dBm         -30 dBm           -50 dBm         -50 dBm           -60 dBm         -60 dBm           Marker         Type           M1         1           01 M1         1	JBm         Offset 11.93 dB           i dB         SWT         10 ms           swith         10 ms         10 ms           swith	RBW 10 MHz     VBW 10 MHz     VBW 10 MHz	M1[1] J-whi Jayahana Ma D1[1] 0 0 0 0 0 0 0 0 0 0 0 0 0		19.08 dBm w/weit/200 μs 4.50 dB 65).00 μs 1.0 ms/
iBm         Offset         11.93 dB           idB         SWT         10 ms           idB         SWT         10 ms             idB         SWT         10 ms             idB         SWT         10 ms             idB         SWT         10 ms             idB         SWT         10 ms             idB         SWT         10 ms             idB         IdB         idB	RBW 10 MHz     VBW 10 MHz     VBW 10 MHz	M1[1] 	Function Resul	19.08 dBm w/weit/200 μs 4.50 dB 65).00 μs 1.0 ms/													
Spectrum           Ref Level 30.00 c           Att         40           SGL TRG: VID           • IPk Cirw           • Mitude of the fill of the	iBm       Offset       11.93 dB         idB       SWT       10 ms         idB       IdB       idB         idB	RBW 10 MHz     VBW 10 MHz     VBW 10 MHz	M1[1] J-whi Jayahana Ma D1[1] 0 0 0 0 0 0 0 0 0 0 0 0 0	Function Resul	19.08 dBm w/weit/200 μs 4.50 dB 65).00 μs 1.0 ms/												
Spectrum           Ref Level 30.00 c           Att         40           SGL TRG: VID           IPk Clrw           IPk Clrw           IO dBm         TRG 18.           0 dBm         -10 dBm           -30 dBm         -30 dBm           -50 dBm         -50 dBm           -60 dBm         -60 dBm           Marker         Type           M1         1           01 M1         1	JBm         Offset 11.93 dB           i dB         SWT         10 ms           swith         10 ms         10 ms           swith	RBW 10 MHz     VBW 10 MHz     VBW 10 MHz	M1[1] J-whi Jayahana Ma D1[1] 0 0 0 0 0 0 0 0 0 0 0 0 0		19.08 dBm w/weit/200 μs 4.50 dB 65).00 μs 1.0 ms/												

Report No.: BJ220322-10024E-RF



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