



# TEST REPORT

Applicant Name : Inrico Technologies Co.,Ltd  
Address : A1703, Shenzhen National Engineering Laboratory Building,  
No. 20 Gaoxin South 7th Road, Shenzhen, China  
Report Number : SZNS220908-40790E-RF-00B  
FCC ID: 2AIV6-2-T522A

## Test Standard (s)

FCC PART 15.247

## Sample Description

Product Type: PoC RADIO  
Model No.: T522A  
Multiple Model(s) No.: N/A  
Trade Mark: Inrico  
Date Received: 2022/09/08  
Report Date: 2023/03/28

Test Result:	Pass*
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\* In the configuration tested, the EUT complied with the standards above.

## Prepared and Checked By:

*Roger Ling*

Roger Ling  
EMC Engineer

## Approved By:

*Candy Li*

Candy Li  
EMC Engineer

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

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## Shenzhen Accurate Technology Co., Ltd.

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## REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	SZNS220908-40790E-RF-00B	Original Report	2023/03/28

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## GENERAL INFORMATION

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

Frequency Range	BLE: 2402-2480MHz Wi-Fi: 2412-2472MHz
Maximum Conducted Peak Output Power	BLE 1M: 7.13dBm Wi-Fi: 19.08dBm(802.11b), 18.57dBm(802.11g), 18.37dBm(802.11n20)
Modulation Technique	BLE: GFSK Wi-Fi: DSSS, OFDM
Antenna Specification*	1.8dBi (provided by the applicant)
Voltage Range	HS: DC 3.7V from battery or DC 4.2V from charger Charger: DC5V from adapter
Sample serial number	SZNS220908-40790E-RF-S1 for Conducted and Radiated Emissions SZNS220908-40790E-RF-S2for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter information	Model: HJ-0502000W2-US Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2000mA

### Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's 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 Compliance Testing of Unlicensed Wireless Devices.

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 Channel Bandwidth		5%
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Line Conducted emission		2.72dB
Emissions, Radiated	30MHz - 1GHz	4.28dB
	1GHz- 18GHz	4.98dB
	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 (ISED), the Registration Number is 5077A.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

For 802.11b, 802.11g, 802.11n-HT20 mode, total 13 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442	/	/

802.11b, 802.11g and 802.11n-HT20 mode was tested with Channel 1, 7 and 13.

For BLE mode, 40 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

EUT was tested with Channel 0, 19 and 39.

## Equipment Modifications

No modification was made to the EUT tested.

## EUT Exercise Software

Test in the engineering mode.

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

Mode	Data rate	Power Level*		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	19	19	19
802.11g	6Mbps	17	17	17
802.11n-HT20	MCS0	17	17	17
BLE	1Mbps	default	default	default

Note: the power level were provided by applicant.

## Duty cycle

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

## Support Equipment List and Details

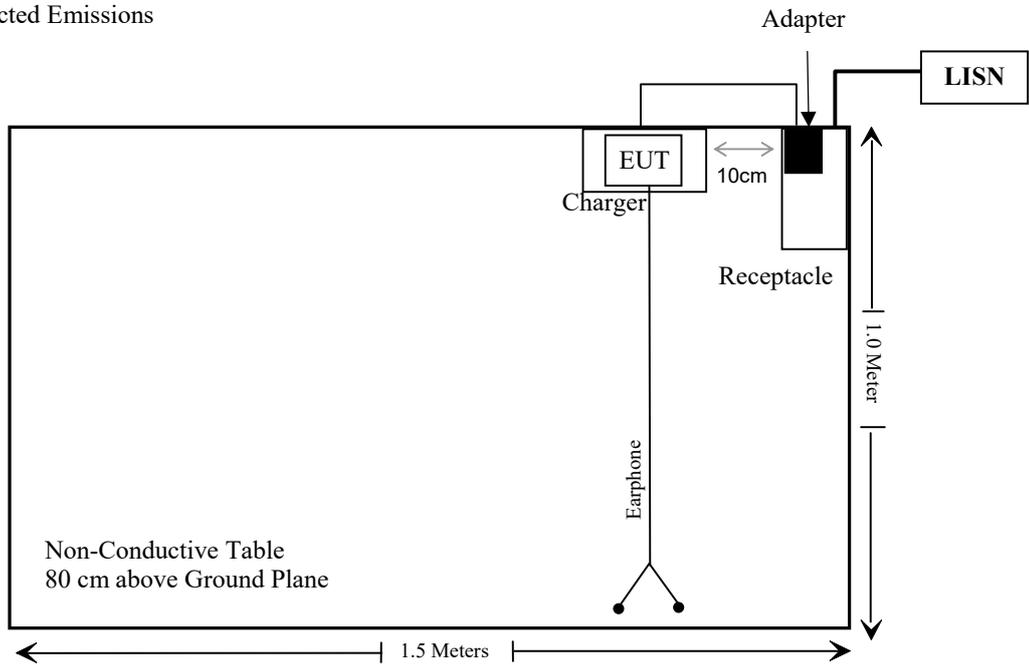
Manufacturer	Description	Model	Serial Number
Unknown	Earphone	Unknown	Unknown

## External I/O Cable

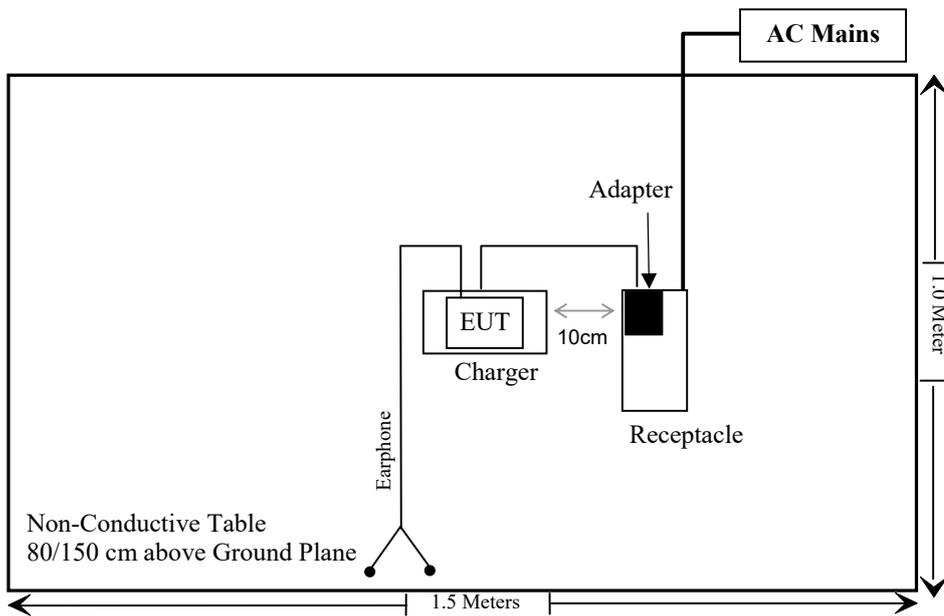
Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	1.0	Charger	Adapter

### Block Diagram of Test Setup

For Conducted Emissions



For Radiated Emissions:



**SUMMARY OF TEST RESULTS**

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Result</b>
FCC§15.247 (i), §1.1307 (b) (3) &§2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

**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 Emission Test Software: e3 19821b (V9)					
Radiated Emissions 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
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/13	2022/12/12
Tonscend	RF Control Unit	JS0806-2	19G8060182	2022/07/06	2023/07/05
WEINSCHHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.31	RF-01	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).

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## **FCC§15.247 (i), §1.1307 (b) (3) &§2.1093 – RF EXPOSURE**

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### **Applicable Standard**

According to FCC §2.1093 and §1.1307(b) (3), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance

### **Test Result**

Compliance, please refer to the SAR report: CR22090016-20.

## **FCC §15.203 - ANTENNA REQUIREMENT**

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### **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.

### **Antenna Connector Construction**

The EUT has one internal antenna which was permanently attached, and the maximum antenna gain is 1.8dBi, fulfill the requirement of this section. Please refer to the EUT photos.

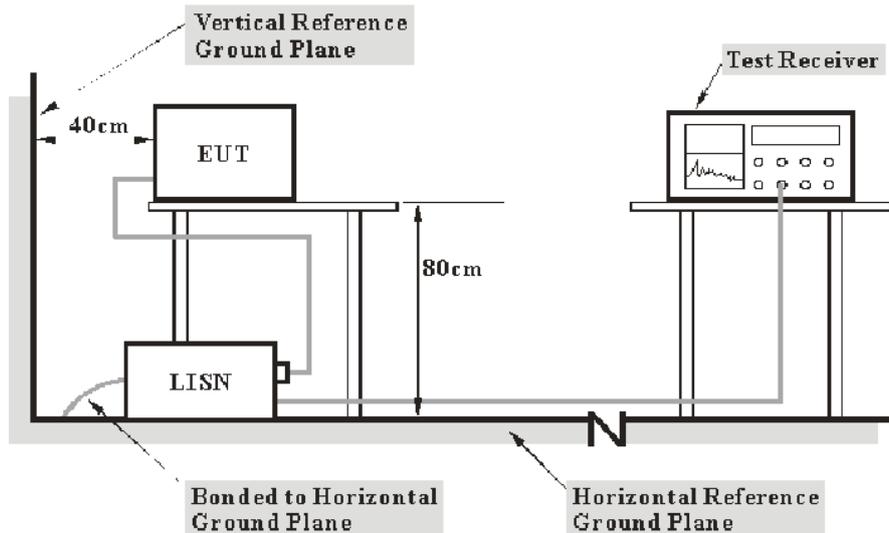
**Result:** Compliant.

## FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC§15.207

### EUT Setup



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

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

The spacing between the peripherals was 10 cm.

### 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

During the conducted emission test, the adapter was connected to the outlet of the LISN.

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.

## Transd Factor & Margin Calculation

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

$$\text{Transd Factor} = \text{LISN VDF} + \text{Cable Loss}$$

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:

$$\begin{aligned} \text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor} \end{aligned}$$

## Test Data

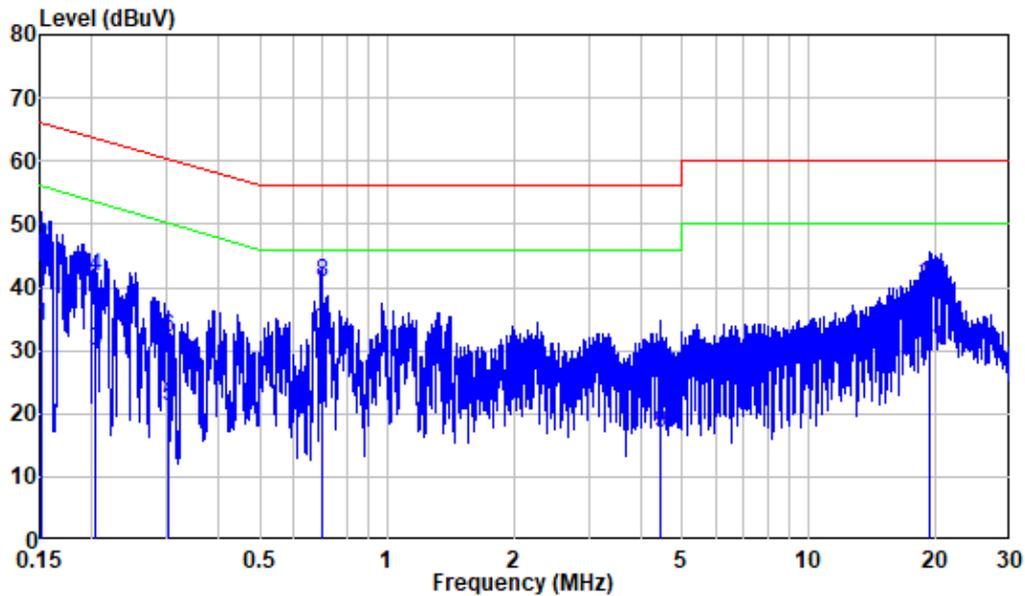
### Environmental Conditions

<b>Temperature:</b>	24°C
<b>Relative Humidity:</b>	53%
<b>ATM Pressure:</b>	101.2 kPa

*The testing was performed by Jason Liu on 2022-11-04.*

*EUT operation mode: Transmitting (Worst case is 802.11n20, middle channel)*

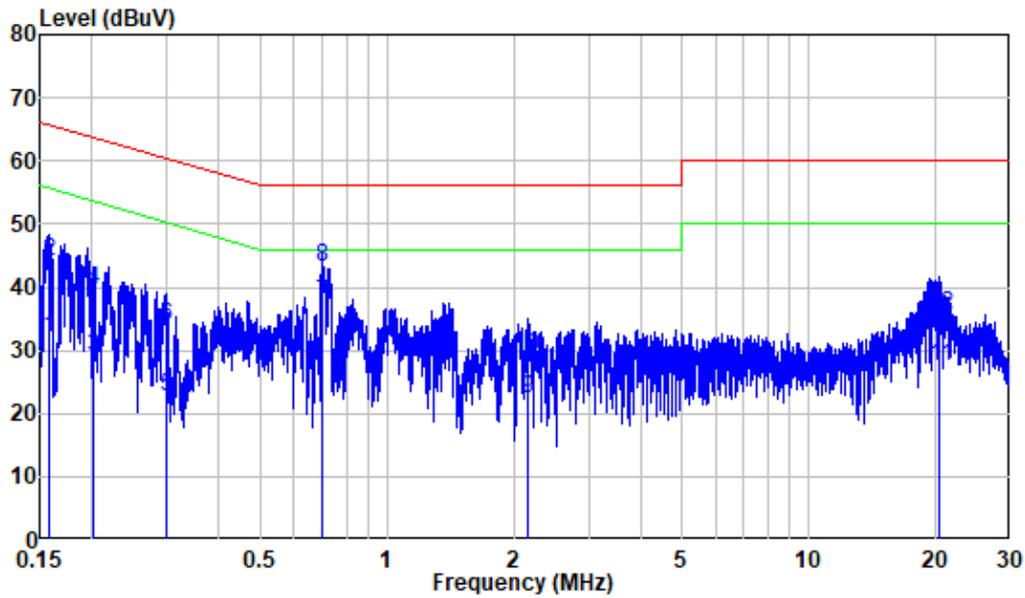
AC 120V/60 Hz, Line



Site : Shielding Room  
 Condition: Line  
 Job No. : SZNS220908-40790E-RF  
 Mode : 2.4G WIFI  
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.152	9.80	23.86	33.66	55.90	-22.24	Average
2	0.152	9.80	36.60	46.40	65.90	-19.50	QP
3	0.204	9.80	19.96	29.76	53.46	-23.70	Average
4	0.204	9.80	31.89	41.69	63.46	-21.77	QP
5	0.302	9.80	11.30	21.10	50.18	-29.08	Average
6	0.302	9.80	22.23	32.03	60.18	-28.15	QP
7	0.700	9.81	23.22	33.03	46.00	-12.97	Average
8	0.700	9.81	30.91	40.72	56.00	-15.28	QP
9	4.460	9.84	7.04	16.88	46.00	-29.12	Average
10	4.460	9.84	16.49	26.33	56.00	-29.67	QP
11	19.364	9.99	20.13	30.12	50.00	-19.88	Average
12	19.364	9.99	30.40	40.39	60.00	-19.61	QP

AC 120V/60 Hz, Neutral



Site : Shielding Room  
 Condition: Neutral  
 Job No. : SZNS220908-40790E-RF  
 Mode : 2.4G WIFI  
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.159	9.80	22.23	32.03	55.54	-23.51	Average
2	0.159	9.80	34.29	44.09	65.54	-21.45	QP
3	0.202	9.80	19.26	29.06	53.52	-24.46	Average
4	0.202	9.80	29.66	39.46	63.52	-24.06	QP
5	0.300	9.80	12.82	22.62	50.24	-27.62	Average
6	0.300	9.80	24.04	33.84	60.24	-26.40	QP
7	0.701	9.81	27.61	37.42	46.00	-8.58	Average
8	0.701	9.81	33.36	43.17	56.00	-12.83	QP
9	2.145	9.82	12.47	22.29	46.00	-23.71	Average
10	2.145	9.82	19.10	28.92	56.00	-27.08	QP
11	20.445	10.10	17.36	27.46	50.00	-22.54	Average
12	20.445	10.10	25.58	35.68	60.00	-24.32	QP

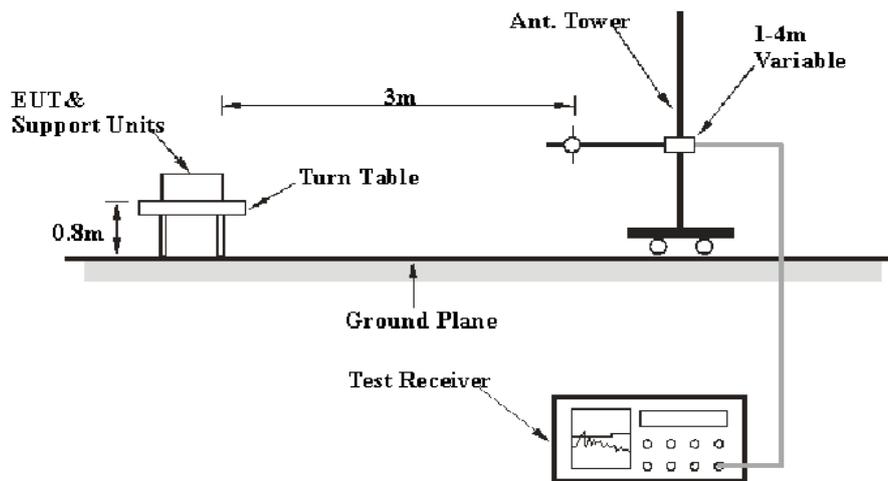
## FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

### Applicable Standard

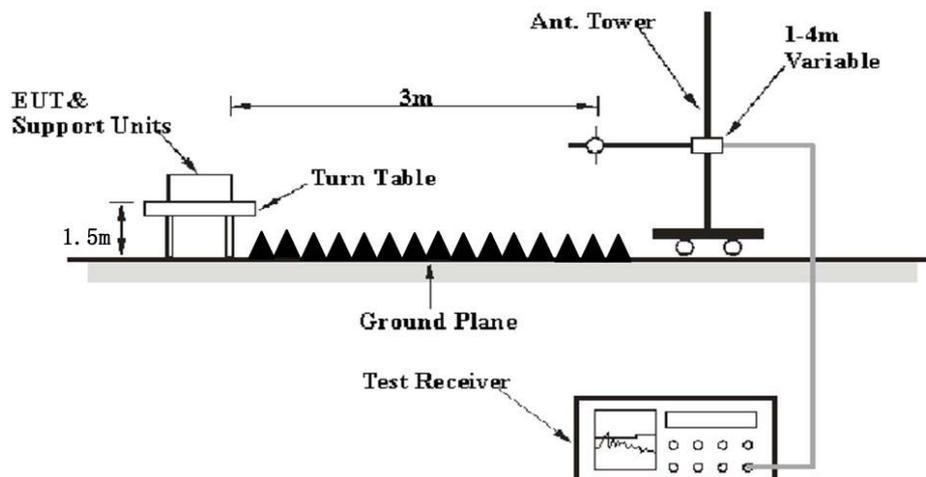
FCC §15.247 (d); §15.209; §15.205;

### 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. The specification used was the FCC 15.209, and FCC 15.247 limits.

## EMI Test Receiver & Spectrum Analyzer Setup

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

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

## 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.

## Factor & Margin Calculation

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

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level} / \text{Corrected Amplitude} - \text{Limit} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

## Test Data

### Environmental Conditions

<b>Temperature:</b>	25~25.5 °C
<b>Relative Humidity:</b>	52~60%
<b>ATM Pressure:</b>	101~101.5 kPa

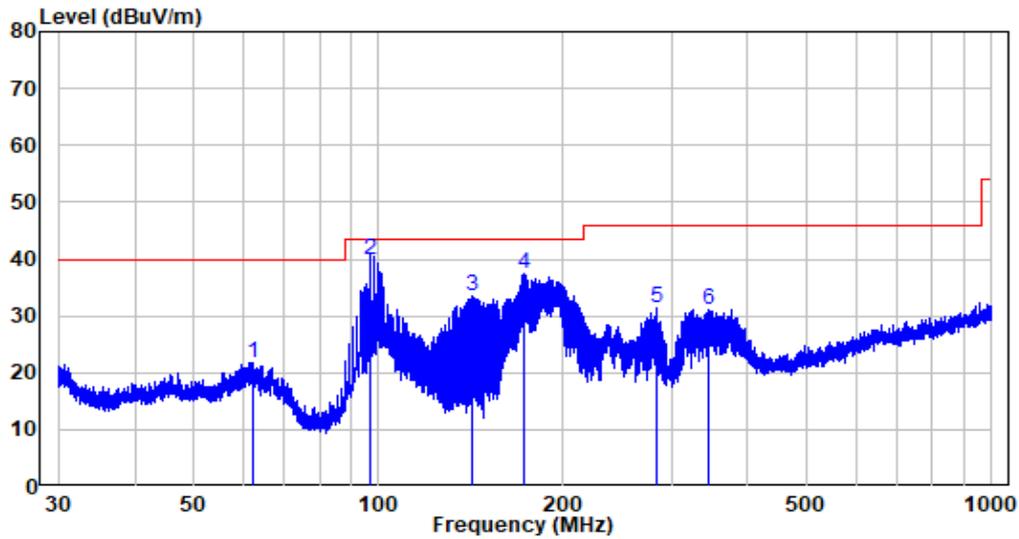
The testing was performed by Level Li on 2022-11-04 for below 1GHz and on 2022-09-21 for above 1GHz.

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

**30MHz-1GHz:** (Worst case is 802.11n20, middle channel)

Note: When the test result of Peak was less than the limit of QP, just the peak value was recorded.

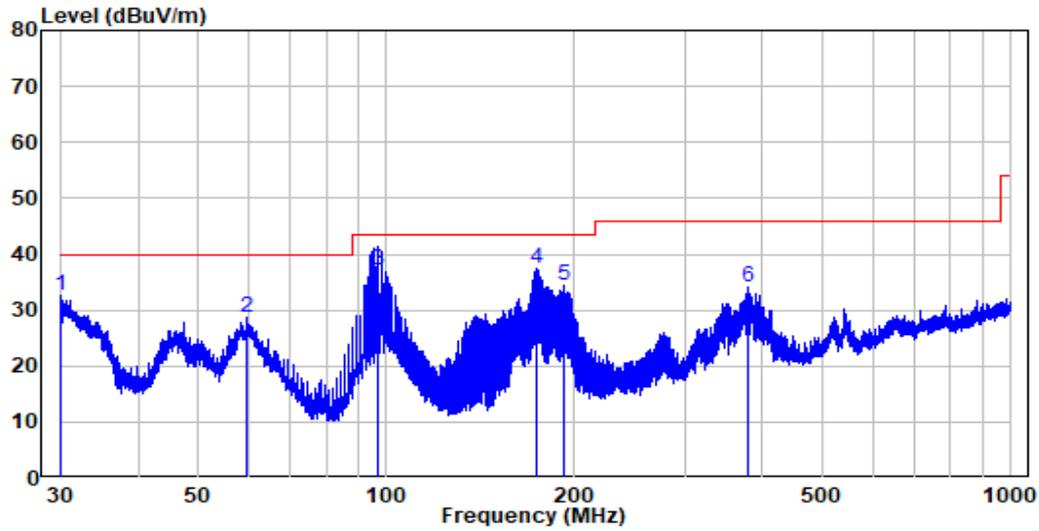
**Horizontal:**



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : SZNS220908-40790E-RF  
 Test Mode: 2.4G WIFI Transmitting

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	62.267	-11.53	33.40	21.87	40.00	-18.13	Peak
2	96.945	-12.28	52.16	39.88	43.50	-3.62	QP
3	141.702	-15.53	49.03	33.50	43.50	-10.00	Peak
4	172.675	-13.30	50.75	37.45	43.50	-6.05	Peak
5	284.602	-9.45	40.74	31.29	46.00	-14.71	Peak
6	344.688	-7.23	38.47	31.24	46.00	-14.76	Peak

Vertical



Site : chamber  
 Condition: 3m VERTICAL  
 Job No. : SZNS220908-40790E-RF  
 Test Mode: 2.4G WIFI Transmitting

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.066	-12.39	45.13	32.74	40.00	-7.26	Peak
2	59.754	-10.53	39.29	28.76	40.00	-11.24	Peak
3	96.987	-12.28	49.55	37.27	43.50	-6.23	QP
4	174.195	-13.17	50.63	37.46	43.50	-6.04	Peak
5	192.756	-11.28	45.67	34.39	43.50	-9.11	Peak
6	380.414	-7.13	41.32	34.19	46.00	-11.81	Peak

**1-25 GHz:****BLE 1M:**

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	PK/Ave		Height (m)	Polar (H/V)				
Low Channel 2402MHz									
2310	67.90	PK	185	1.9	H	-7.24	60.66	74	-13.34
2310	54.01	AV	185	1.9	H	-7.24	46.77	54	-7.23
2310	68.37	PK	137	1.7	V	-7.24	61.13	74	-12.87
2310	53.94	AV	137	1.7	V	-7.24	46.70	54	-7.30
2390	69.35	PK	71	1.8	H	-7.22	62.13	74	-11.87
2390	54.79	AV	71	1.8	H	-7.22	47.57	54	-6.43
2390	69.33	PK	156	2.2	V	-7.22	62.11	74	-11.89
2390	54.93	AV	156	2.2	V	-7.22	47.71	54	-6.29
4804	53.90	PK	268	1.7	H	-3.51	50.39	74	-23.61
4804	53.99	PK	322	1.7	V	-3.51	50.48	74	-23.52
Middle Channel 2440MHz									
4880	54.57	PK	115	1.4	H	-3.38	51.19	74	-22.81
4880	54.34	PK	150	1.4	V	-3.38	50.96	74	-23.04
High Channel 2480MHz									
2483.5	70.08	PK	149	1.8	H	-7.20	62.88	74	-11.12
2483.5	56.07	AV	149	1.8	H	-7.20	48.87	54	-5.13
2483.5	69.42	PK	100	1.1	V	-7.20	62.22	74	-11.78
2483.5	55.87	AV	100	1.1	V	-7.20	48.67	54	-5.33
2500	68.35	PK	144	1	H	-7.18	61.17	74	-12.83
2500	55.48	AV	144	1	H	-7.18	48.3	54	-5.70
2500	69.07	PK	47	2.2	V	-7.18	61.89	74	-12.11
2500	55.47	AV	47	2.2	V	-7.18	48.29	54	-5.71
4960	53.91	PK	145	1.5	H	-3.01	50.90	74	-23.10
4960	53.89	PK	5	1.5	V	-3.01	50.88	74	-23.12

**Note:**

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

Corrected Amplitude = Corrected Factor + Reading

Margin = Corrected Amplitude - Limit

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

The test result of peak was less than the limit of average, so just peak value were recorded.

**Wi-Fi:**

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	PK/Ave		Height (m)	Polar (H/V)				
<b>802.11b</b>									
Low Channel 2412MHz									
2310	68.12	PK	284	1.1	H	-7.24	60.88	74	-13.12
2310	53.32	AV	284	1.1	H	-7.24	46.08	54	-7.92
2310	68.01	PK	20	1.4	V	-7.24	60.77	74	-13.23
2310	53.22	AV	20	1.4	V	-7.24	45.98	54	-8.02
2390	69.78	PK	265	2.2	H	-7.22	62.56	74	-11.44
2390	54.37	AV	265	2.2	H	-7.22	47.15	54	-6.85
2390	69.63	PK	141	2.3	V	-7.22	62.41	74	-11.59
2390	54.30	AV	141	2.3	V	-7.22	47.08	54	-6.92
4824	57.12	PK	45	1.8	H	-3.52	53.60	74	-20.40
4824	57.14	PK	198	1.6	V	-3.52	53.62	74	-20.38
Middle Channel 2442MHz									
4884	57.53	PK	313	1.2	H	-3.36	54.17	74	-19.83
4884	48.63	AV	313	1.2	H	-3.36	45.27	54	-8.73
4884	57.50	PK	197	2.4	V	-3.36	54.14	74	-19.86
4884	48.83	AV	197	2.4	V	-3.36	45.47	54	-8.53
High Channel 2472MHz									
2483.5	71.53	PK	3	1.1	H	-7.20	64.33	74	-9.67
2483.5	58.54	AV	3	1.1	H	-7.20	51.34	54	-2.66
2483.5	72.08	PK	5	1.3	V	-7.20	64.88	74	-9.12
2483.5	58.72	AV	5	1.3	V	-7.20	51.52	54	-2.48
2500	68.79	PK	83	1.8	H	-7.18	61.61	74	-12.39
2500	55.57	AV	83	1.8	H	-7.18	48.39	54	-5.61
2500	69.04	PK	140	1.6	V	-7.18	61.86	74	-12.14
2500	55.43	AV	140	1.6	V	-7.18	48.25	54	-5.75
4944	57.01	PK	130	1.6	H	-3.07	53.94	74	-20.06
4944	57.04	PK	195	1.5	V	-3.07	53.97	74	-20.03

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	PK/Ave		Height (m)	Polar (H/V)				
<b>802.11g</b>									
Low Channel 2412MHz									
2310	68.13	PK	24	2	H	-7.24	60.89	74	-13.11
2310	54.14	AV	24	2	H	-7.24	46.90	54	-7.10
2310	67.83	PK	20	1	V	-7.24	60.59	74	-13.41
2310	54.02	AV	20	1	V	-7.24	46.78	54	-7.22
2390	69.19	PK	209	1.6	H	-7.22	61.97	74	-12.03
2390	54.86	AV	209	1.6	H	-7.22	47.64	54	-6.36
2390	69.44	PK	109	1.3	V	-7.22	62.22	74	-11.78
2390	55.00	AV	109	1.3	V	-7.22	47.78	54	-6.22
4824	54.13	PK	180	1.5	H	-3.52	50.61	74	-23.39
4824	54.28	PK	234	1.5	V	-3.52	50.76	74	-23.24
Middle Channel 2442MHz									
4884	54.48	PK	152	1.5	H	-3.36	51.12	74	-22.88
4884	54.44	PK	60	1.5	V	-3.36	51.08	74	-22.92
High Channel 2472MHz									
2483.5	74.70	PK	204	2.5	H	-7.20	67.5	74	-6.50
2483.5	58.17	AV	204	2.5	H	-7.20	50.97	54	-3.03
2483.5	74.86	PK	335	1.7	V	-7.20	67.66	74	-6.34
2483.5	58.22	AV	335	1.7	V	-7.20	51.02	54	-2.98
2500	69.11	PK	232	2	H	-7.18	61.93	74	-12.07
2500	55.39	AV	232	2	H	-7.18	48.21	54	-5.79
2500	68.66	PK	145	2.1	V	-7.18	61.48	74	-12.52
2500	55.46	AV	145	2.1	V	-7.18	48.28	54	-5.72
4944	54.19	PK	66	1.5	H	-3.07	51.12	74	-22.88
4944	54.30	PK	330	1.5	V	-3.07	51.23	74	-22.77

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
<b>802.11n20</b>									
Low Channel 2412MHz									
2310	68.48	PK	79	2.3	H	-7.24	61.24	74	-12.76
2310	53.97	AV	79	2.3	H	-7.24	46.73	54	-7.27
2310	67.88	PK	194	1.9	V	-7.24	60.64	74	-13.36
2310	54.02	AV	194	1.9	V	-7.24	46.78	54	-7.22
2390	69.93	PK	27	2.3	H	-7.22	62.71	74	-11.29
2390	55.08	AV	27	2.3	H	-7.22	47.86	54	-6.14
2390	69.19	PK	115	1.5	V	-7.22	61.97	74	-12.03
2390	55.08	AV	115	1.5	V	-7.22	47.86	54	-6.14
4824	54.02	PK	262	1.7	H	-3.52	50.50	74	-23.50
4824	53.87	PK	268	1.7	V	-3.52	50.35	74	-23.65
Middle Channel 2442MHz									
4884	54.62	PK	22	1.6	H	-3.36	51.26	74	-22.74
4884	54.22	PK	155	1.6	V	-3.36	50.86	74	-23.14
High Channel 2472MHz									
2483.5	76.83	PK	237	1.3	H	-7.20	69.63	74	-4.37
2483.5	58.18	AV	237	1.3	H	-7.20	50.98	54	-3.02
2483.5	77.18	PK	177	2.2	V	-7.20	69.98	74	-4.02
2483.5	58.20	AV	177	2.2	V	-7.20	51	54	-3.00
2500	68.73	PK	299	2.4	H	-7.18	61.55	74	-12.45
2500	55.53	AV	299	2.4	H	-7.18	48.35	54	-5.65
2500	68.51	PK	276	1.7	V	-7.18	61.33	74	-12.67
2500	55.55	AV	276	1.7	V	-7.18	48.37	54	-5.63
4944	54.01	PK	77	1.1	H	-3.07	50.94	74	-23.06
4944	54.23	PK	346	1.1	V	-3.07	51.16	74	-22.84

**Note:**

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

Corrected Amplitude = Corrected Factor + Reading

Margin = Corrected Amplitude - Limit

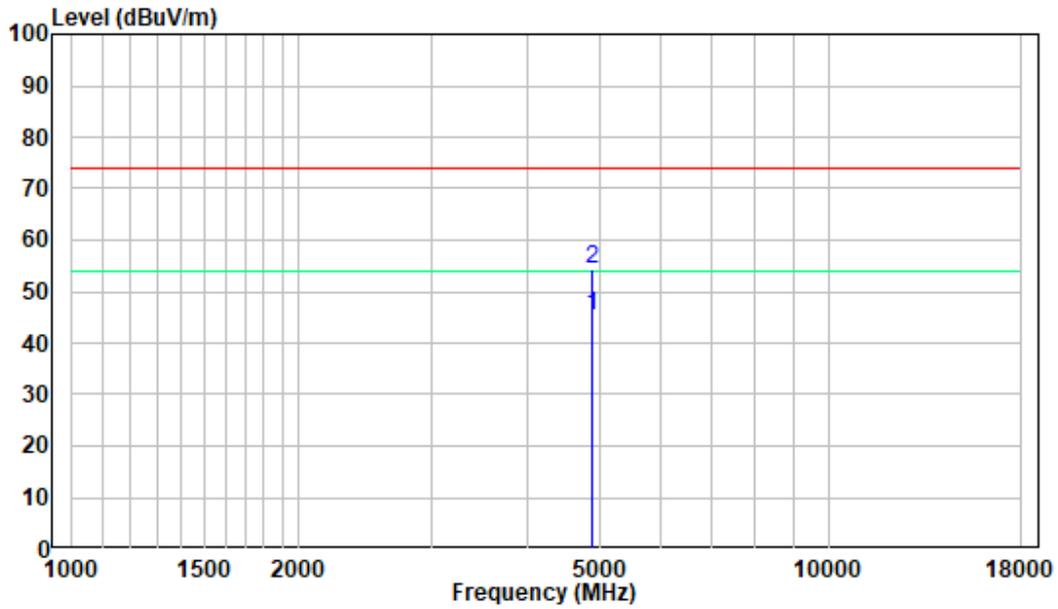
The other spurious emission which is in the noise floor level was not recorded.

The test result of peak was less than the limit of average, so just peak value were recorded.

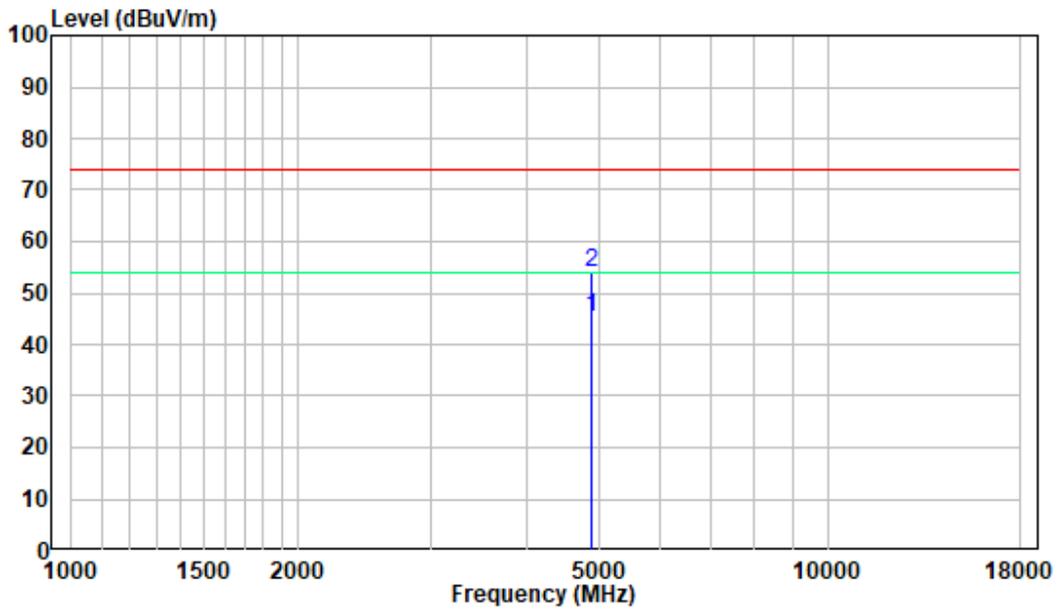
1-18 GHz:

Pre-scan for 802.11 b, Middle Channel

Horizontal



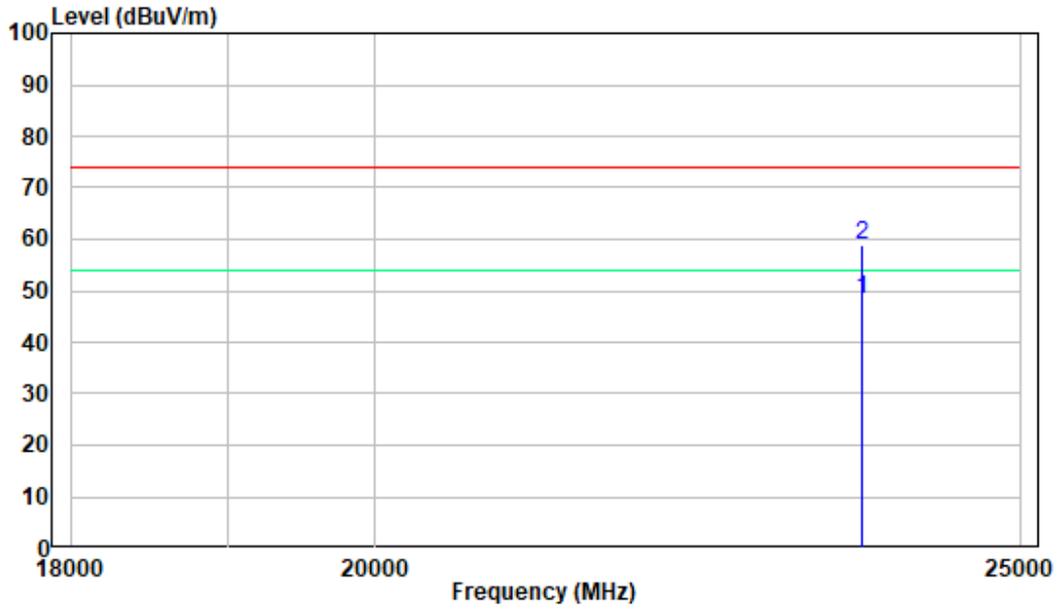
Vertical



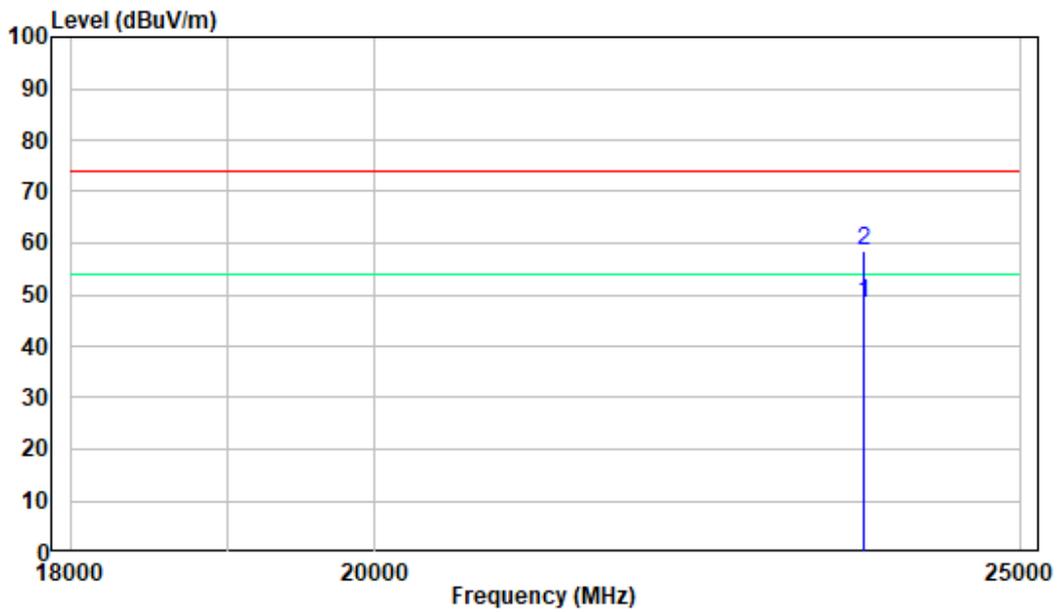
18 -25GHz:

Pre-scan for 802.11 b, Middle Channel

Horizontal



Vertical



## FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

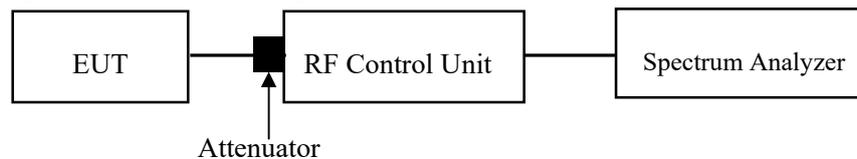
### Applicable Standard

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.

### Test Procedure

Test Method: ANSI C63.10-2013 Clause 11.8.1 & Clause 6.9.3

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.



### Test Data

#### Environmental Conditions

<b>Temperature:</b>	25~25.4 °C
<b>Relative Humidity:</b>	57~65 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Cat Kang from 2022-09-21 to 2022-11-14.*

*EUT operation mode: Transmitting*

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

## FCC §15.247(b) (3) - 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.

### Test Procedure

Wi-Fi:

Test Method: ANSI C63.10-2013 Clause 11.9.1.3 for peak conducted output power:

The maximum peak conducted output power may be measured using a broadband peak RF power meter.

The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

Test Method: ANSI C63.10-2013 Clause 11.9.2.3.1 for average conducted output power:

Method AVGPM is a measurement using an RF average power meter, as follows:

a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied:

1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.

2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.

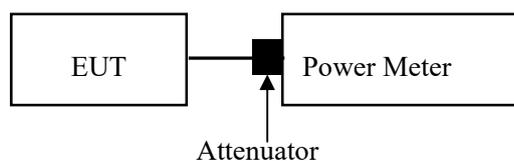
3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle,  $D$ , of the transmitter output signal as described in 11.6.

c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.

d) Adjust the measurement in dBm by adding  $[10 \log (1 / D)]$ , where  $D$  is the duty cycle.

For Wi-Fi mode:



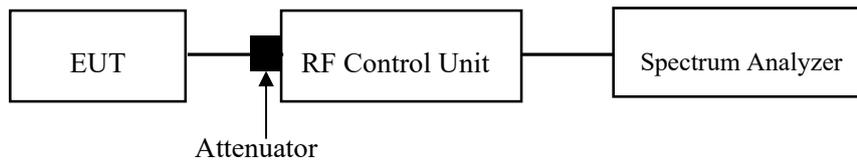
BLE:

Test Method: ANSI C63.10-2013 Clause 11.9.1.1

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW  $\geq$  DTS bandwidth.
- b) Set VBW  $\geq$   $[3 \times \text{RBW}]$ .
- c) Set span  $\geq$   $[3 \times \text{RBW}]$ .
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

For BLE mode:



## Test Data

### Environmental Conditions

<b>Temperature:</b>	25~25.4 °C
<b>Relative Humidity:</b>	57~65 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Cat Kang from 2022-09-21 to 2022-11-14.*

*EUT operation mode: Transmitting*

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

## FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

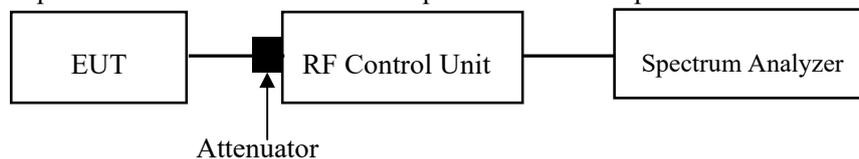
### Applicable Standard

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

Test Method: ANSI C63.10-2013 Clause 11.11

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

<b>Temperature:</b>	25~25.4 °C
<b>Relative Humidity:</b>	57~65 %
<b>ATM Pressure:</b>	101.0 kPa

The testing was performed by Cat Kang from 2022-09-21 to 2022-11-14.

EUT operation mode: Transmitting

Test Result: Compliant.

#### Conducted Band Edge Result:

Please refer to the Appendix Wi-Fi and Appendix BLE.

## FCC §15.247(e) - POWER SPECTRAL DENSITY

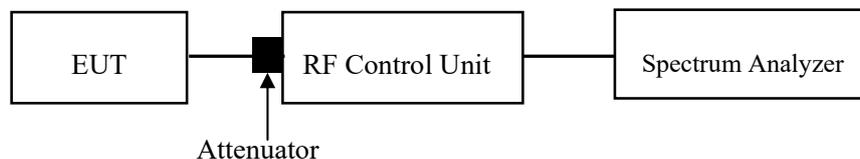
### Applicable Standard

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.

### Test Procedure

Test Method: ANSI C63.10-2013 Clause 11.10.2

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:  $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$ .
3. Set the VBW  $\geq 3 \times \text{RBW}$ .
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:	25~25.4 °C
Relative Humidity:	57~65 %
ATM Pressure:	101.0 kPa

*The testing was performed by Cat Kang from 2022-09-21 to 2023-02-13.*

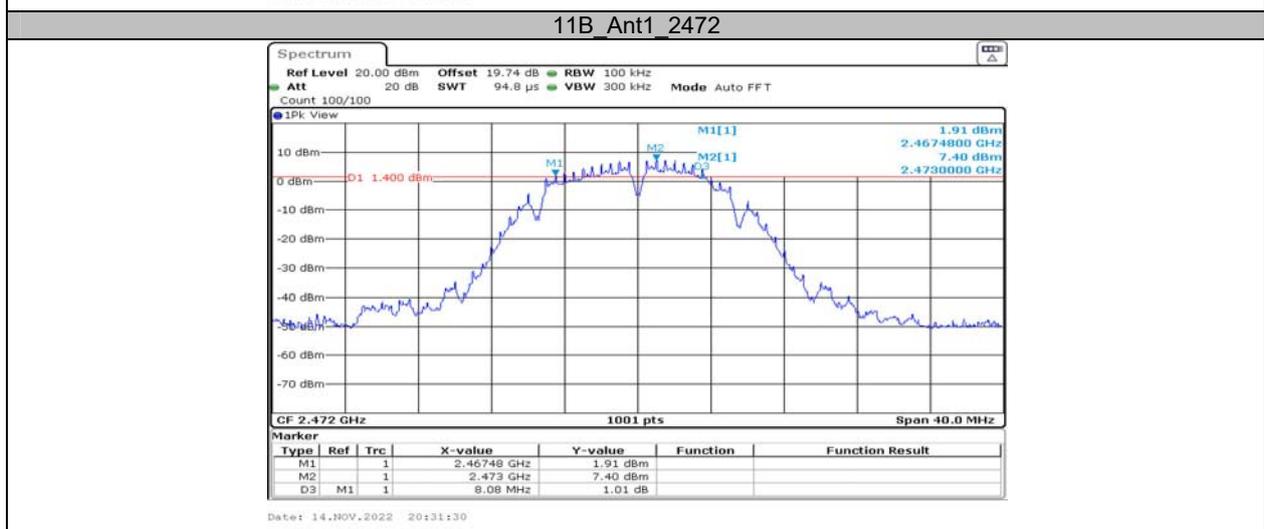
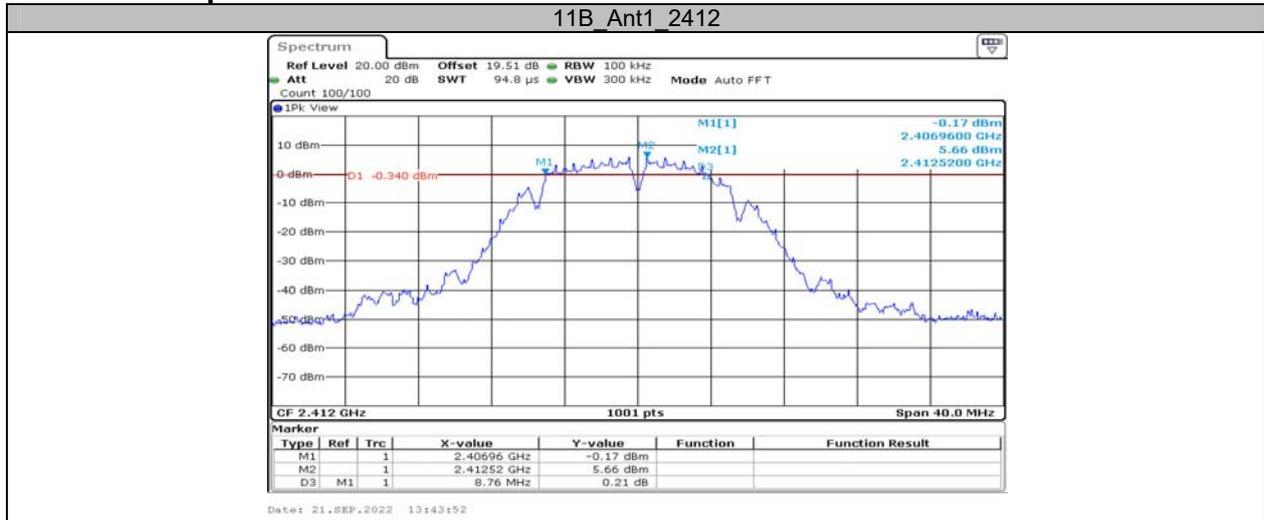
*EUT operation mode: Transmitting*

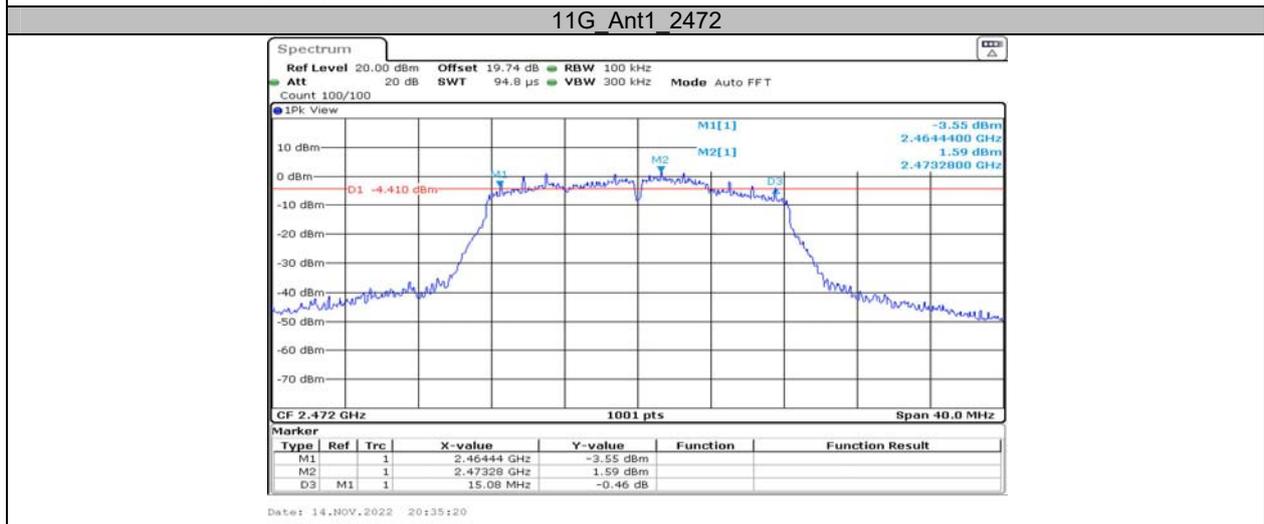
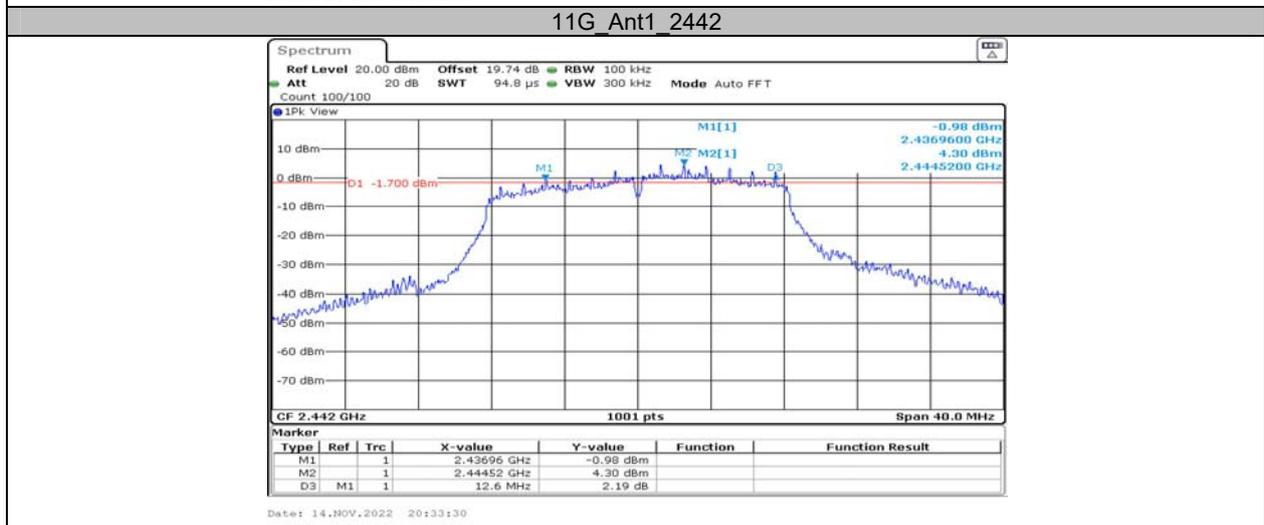
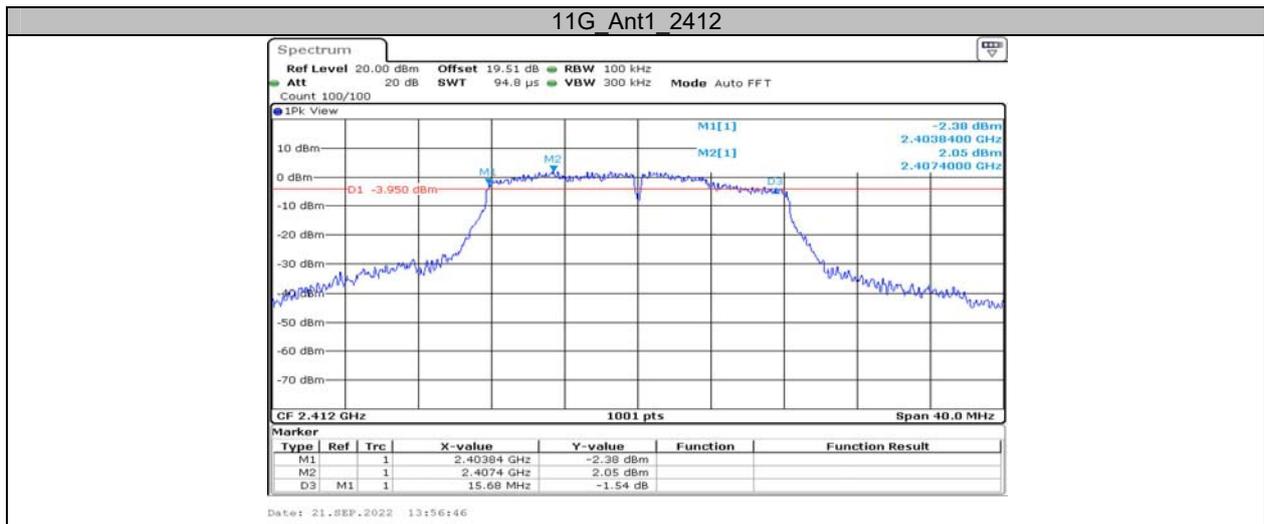
Test Result: Compliant. Please refer to the Appendix Wi-Fi and Appendix BLE.

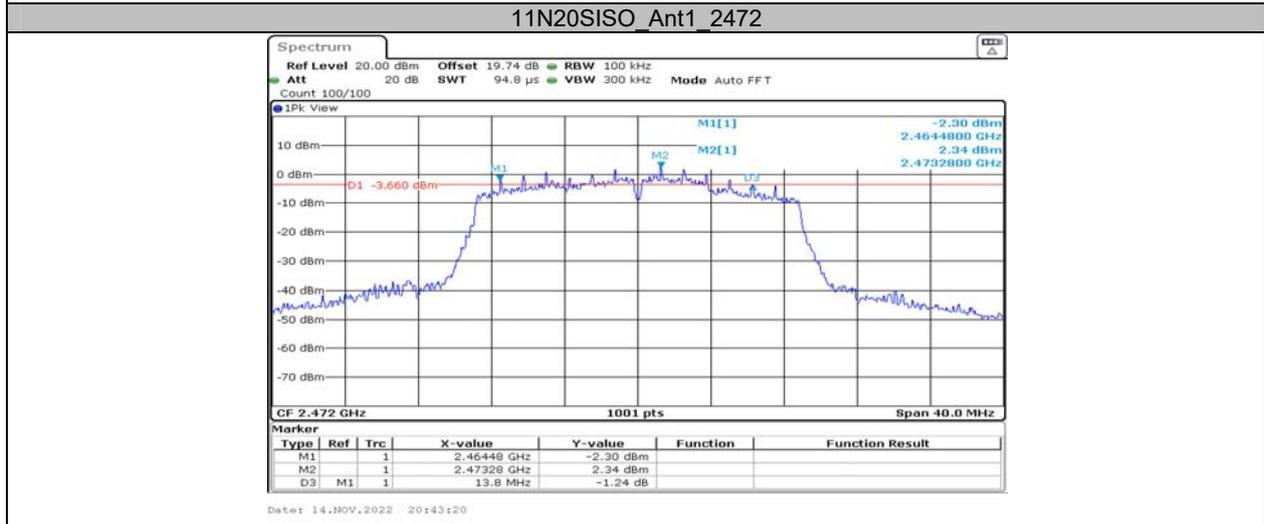
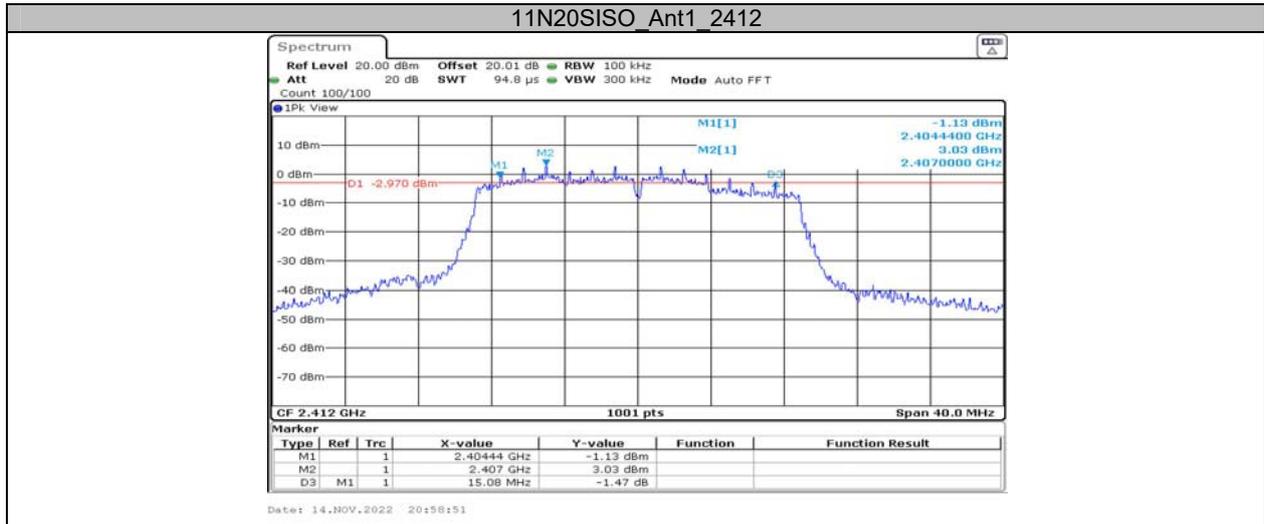
**APPENDIX Wi-Fi****Appendix A: DTS Bandwidth  
Test Result**

Test Mode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.76	0.5	PASS
		2442	8.04	0.5	PASS
		2472	8.08	0.5	PASS
11G	Ant1	2412	15.68	0.5	PASS
		2442	12.60	0.5	PASS
		2472	15.08	0.5	PASS
11N20SISO	Ant1	2412	15.08	0.5	PASS
		2442	13.84	0.5	PASS
		2472	13.80	0.5	PASS

### Test Graphs



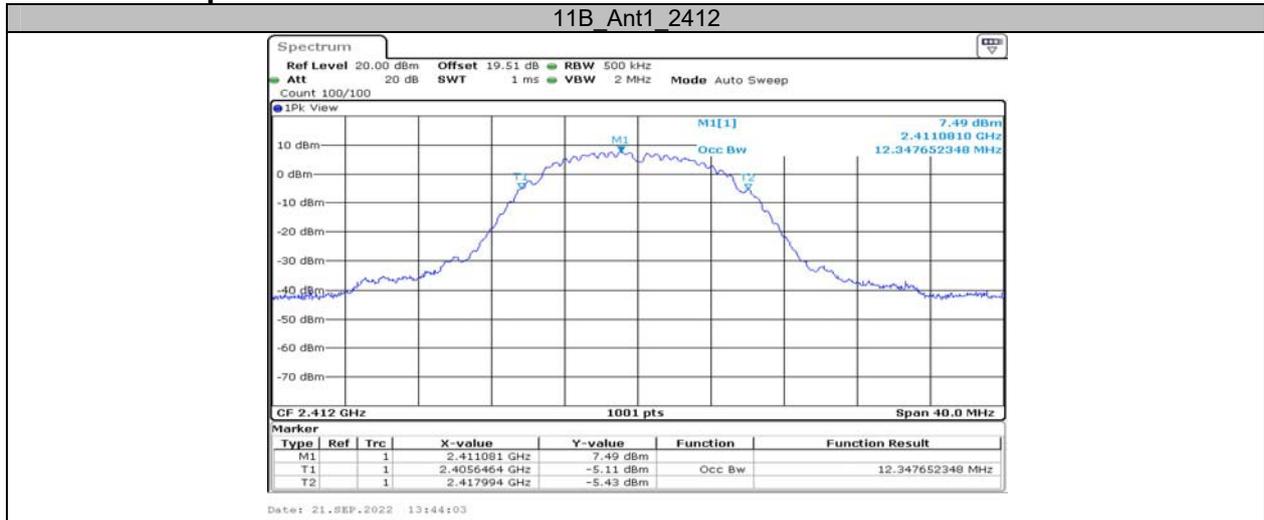




**Appendix B: Occupied Channel Bandwidth  
Test Result**

Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.348	---	---
		2442	12.268	---	---
		2472	12.108	---	---
11G	Ant1	2412	17.183	---	---
		2442	16.983	---	---
		2472	16.903	---	---
11N20SISO	Ant1	2412	17.782	---	---
		2442	17.862	---	---
		2472	17.702	---	---

### Test Graphs



11G\_Ant1\_2412



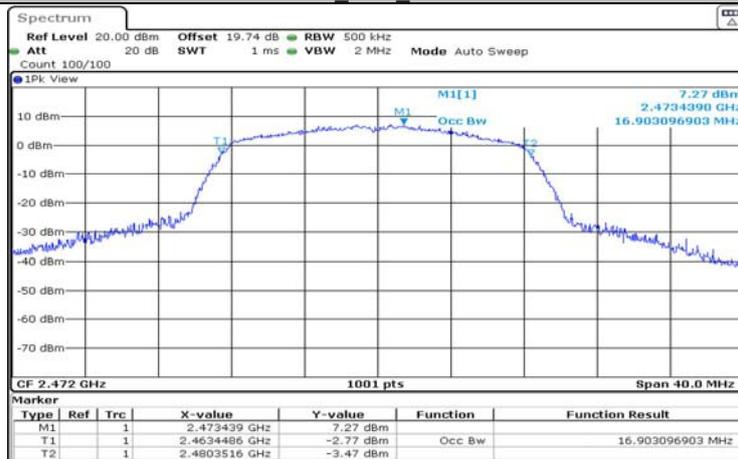
Date: 21.SEP.2022 13:56:57

11G\_Ant1\_2442



Date: 14.NOV.2022 20:33:42

11G\_Ant1\_2472



Date: 14.NOV.2022 20:35:32



### Appendix C: Maximum conducted output power Test Result

Peak:

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	18.78	≤30.00	PASS
		2442	19.08	≤30.00	PASS
		2472	18.63	≤30.00	PASS
11G	Ant1	2412	18.57	≤30.00	PASS
		2442	17.60	≤30.00	PASS
		2472	17.78	≤30.00	PASS
11N20SISO	Ant1	2412	18.37	≤30.00	PASS
		2442	17.53	≤30.00	PASS
		2472	17.46	≤30.00	PASS

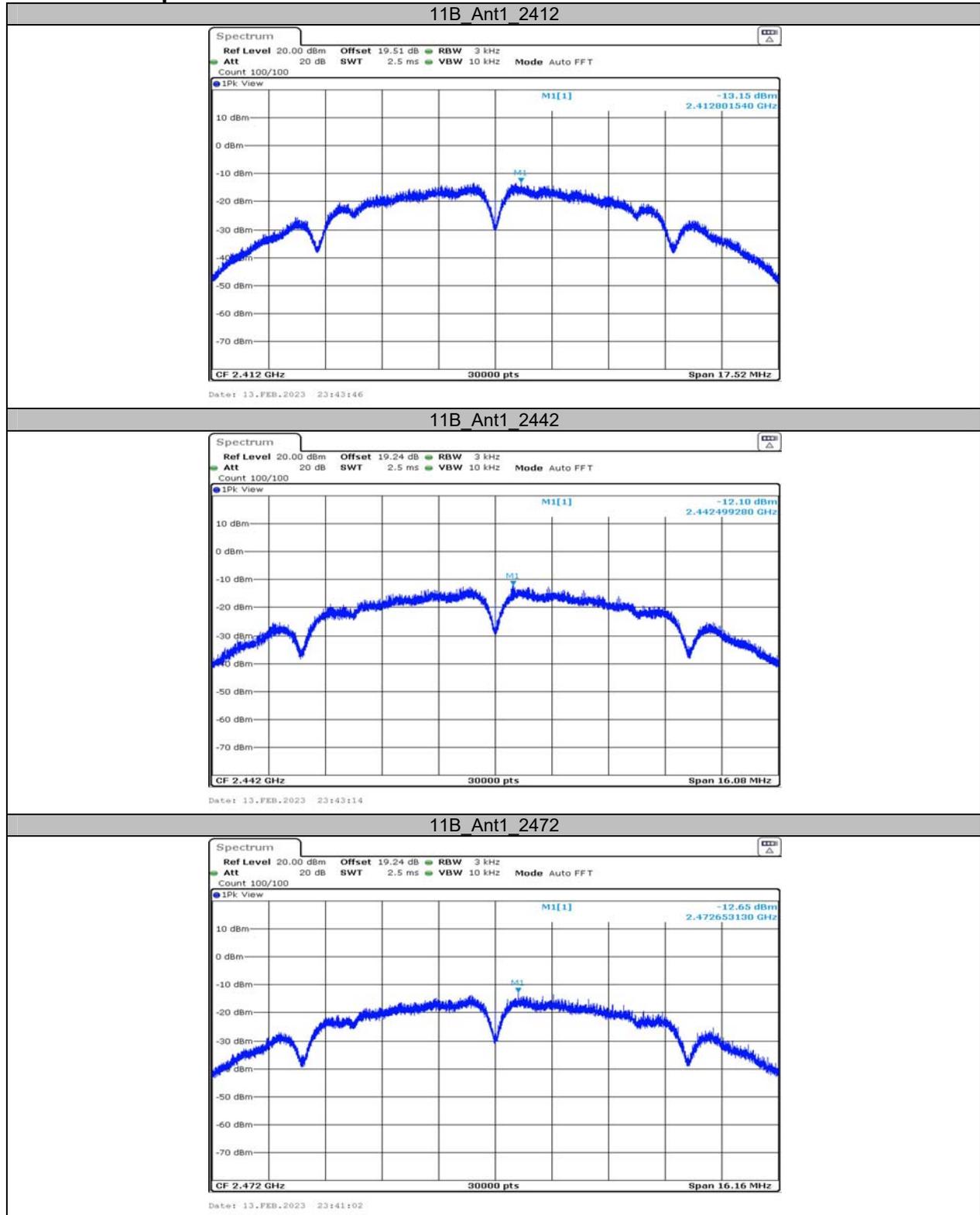
Average:

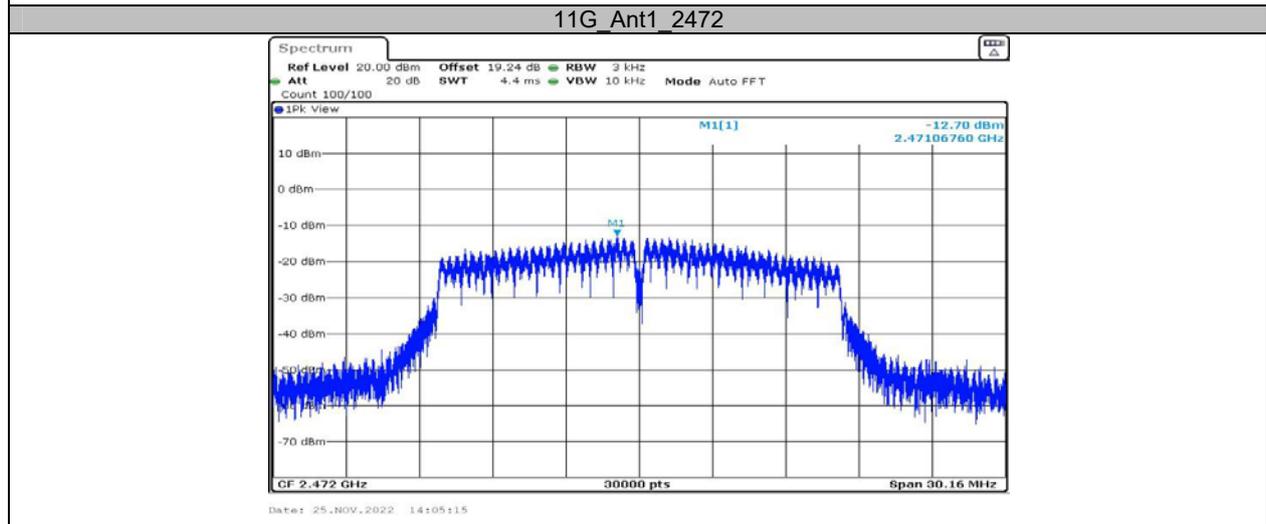
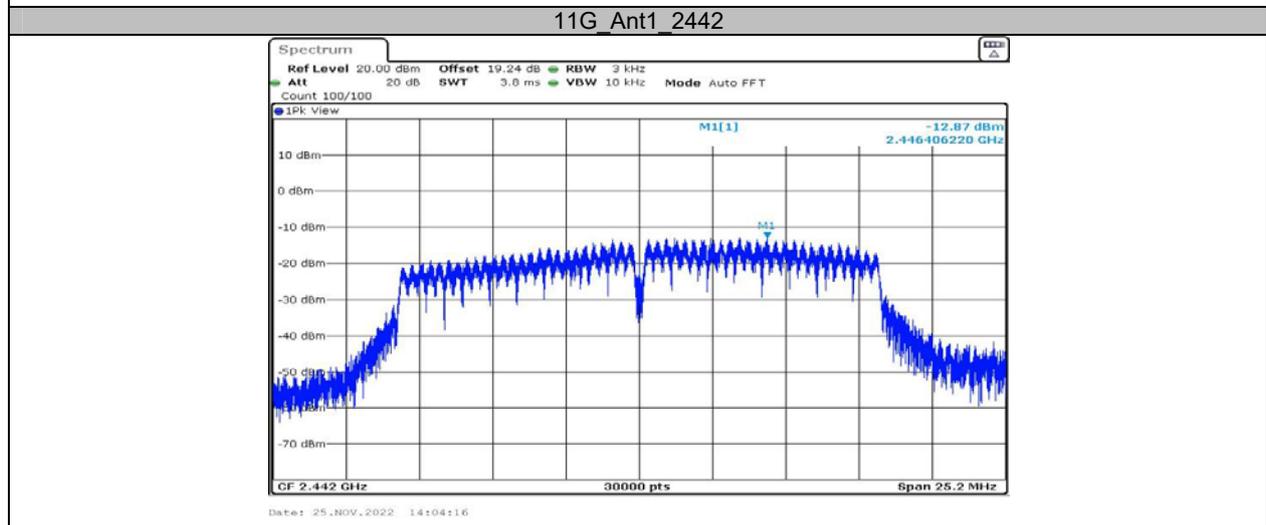
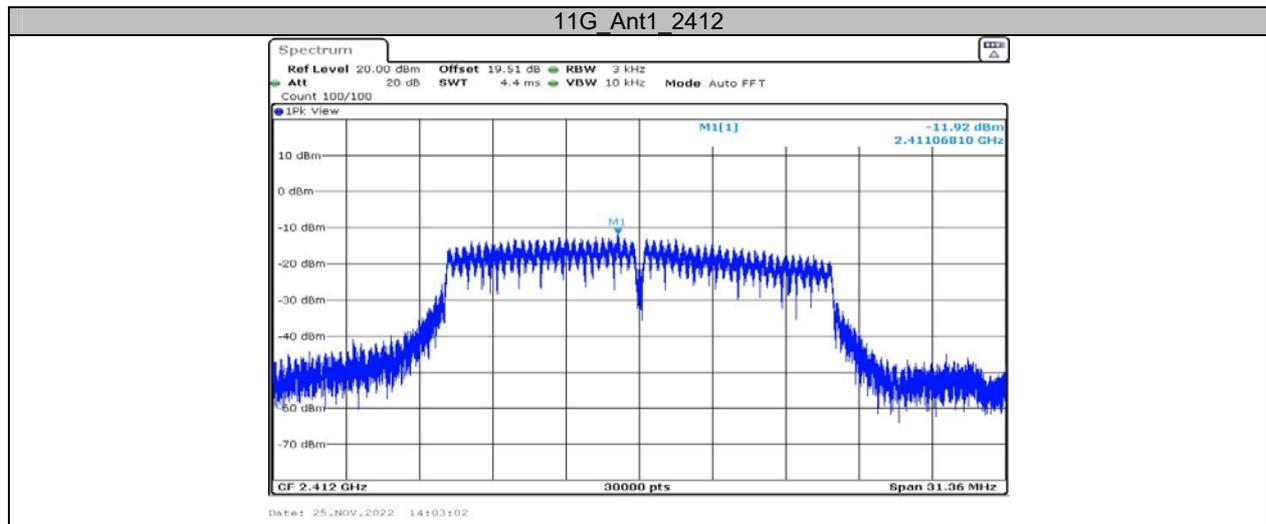
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	14.41	≤30.00	PASS
		2442	14.44	≤30.00	PASS
		2472	14.33	≤30.00	PASS
11G	Ant1	2412	14.57	≤30.00	PASS
		2442	13.79	≤30.00	PASS
		2472	13.60	≤30.00	PASS
11N20SISO	Ant1	2412	14.36	≤30.00	PASS
		2442	13.54	≤30.00	PASS
		2472	13.49	≤30.00	PASS

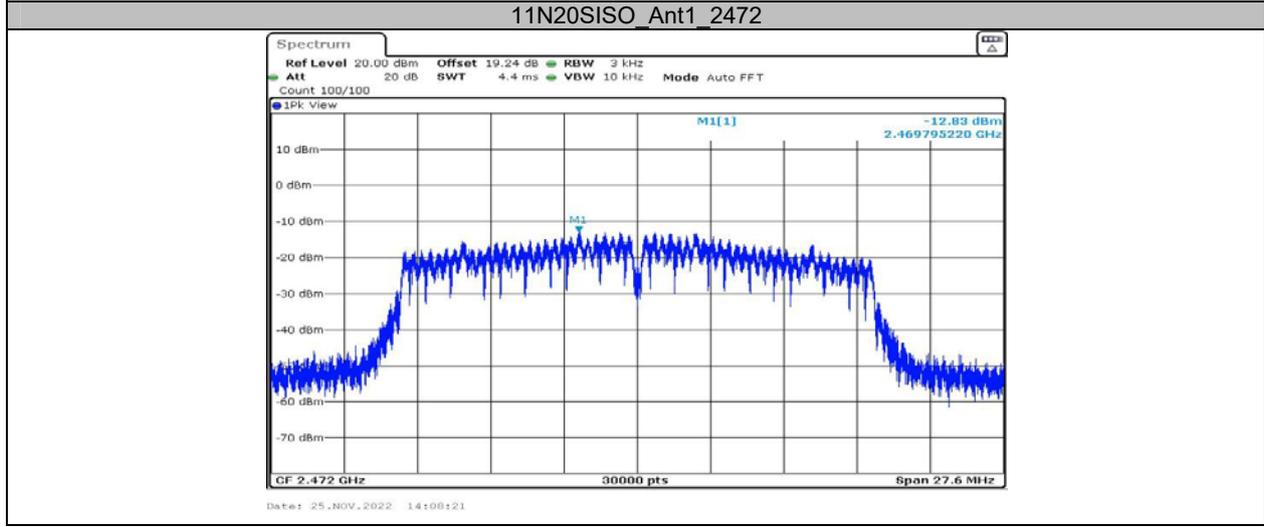
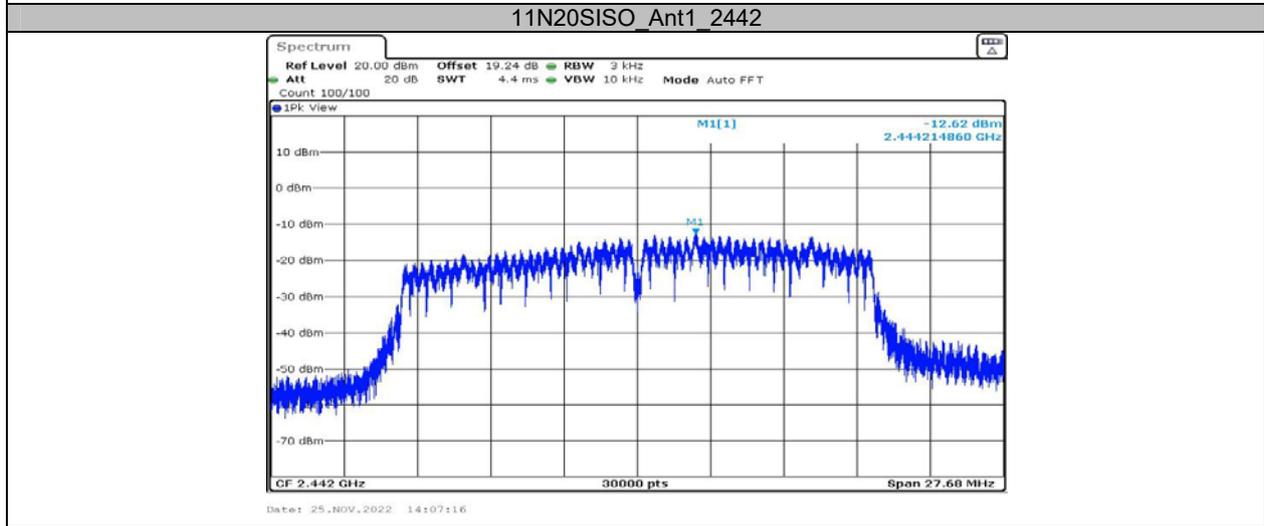
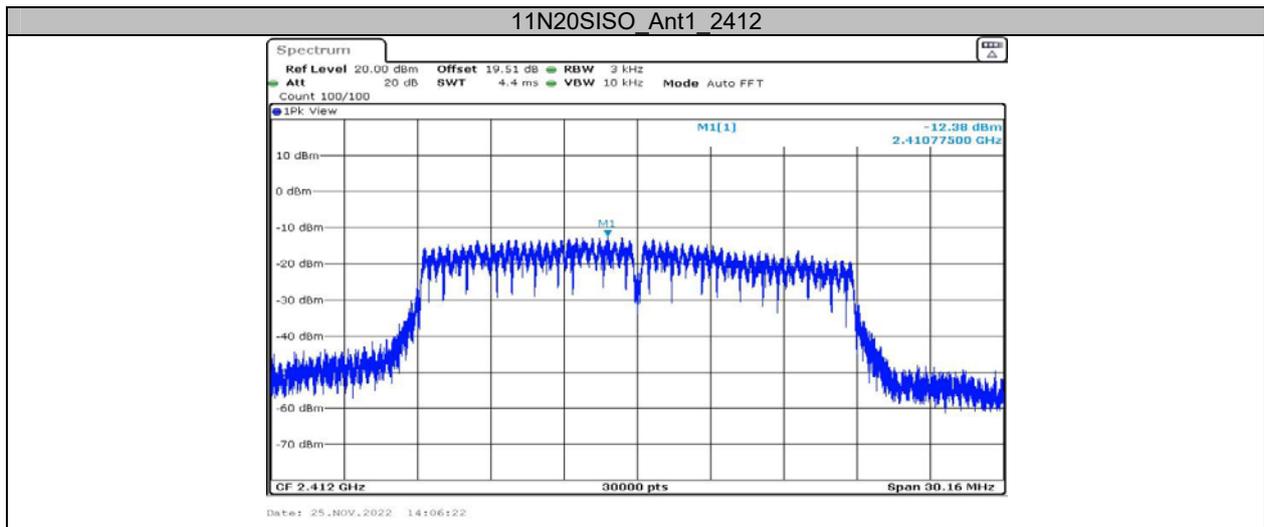
**Appendix D: Maximum power spectral density  
Test Result**

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.15	≤8.00	PASS
		2442	-12.10	≤8.00	PASS
		2472	-12.65	≤8.00	PASS
11G	Ant1	2412	-11.92	≤8.00	PASS
		2442	-12.87	≤8.00	PASS
		2472	-12.70	≤8.00	PASS
11N20SISO	Ant1	2412	-12.38	≤8.00	PASS
		2442	-12.62	≤8.00	PASS
		2472	-12.83	≤8.00	PASS

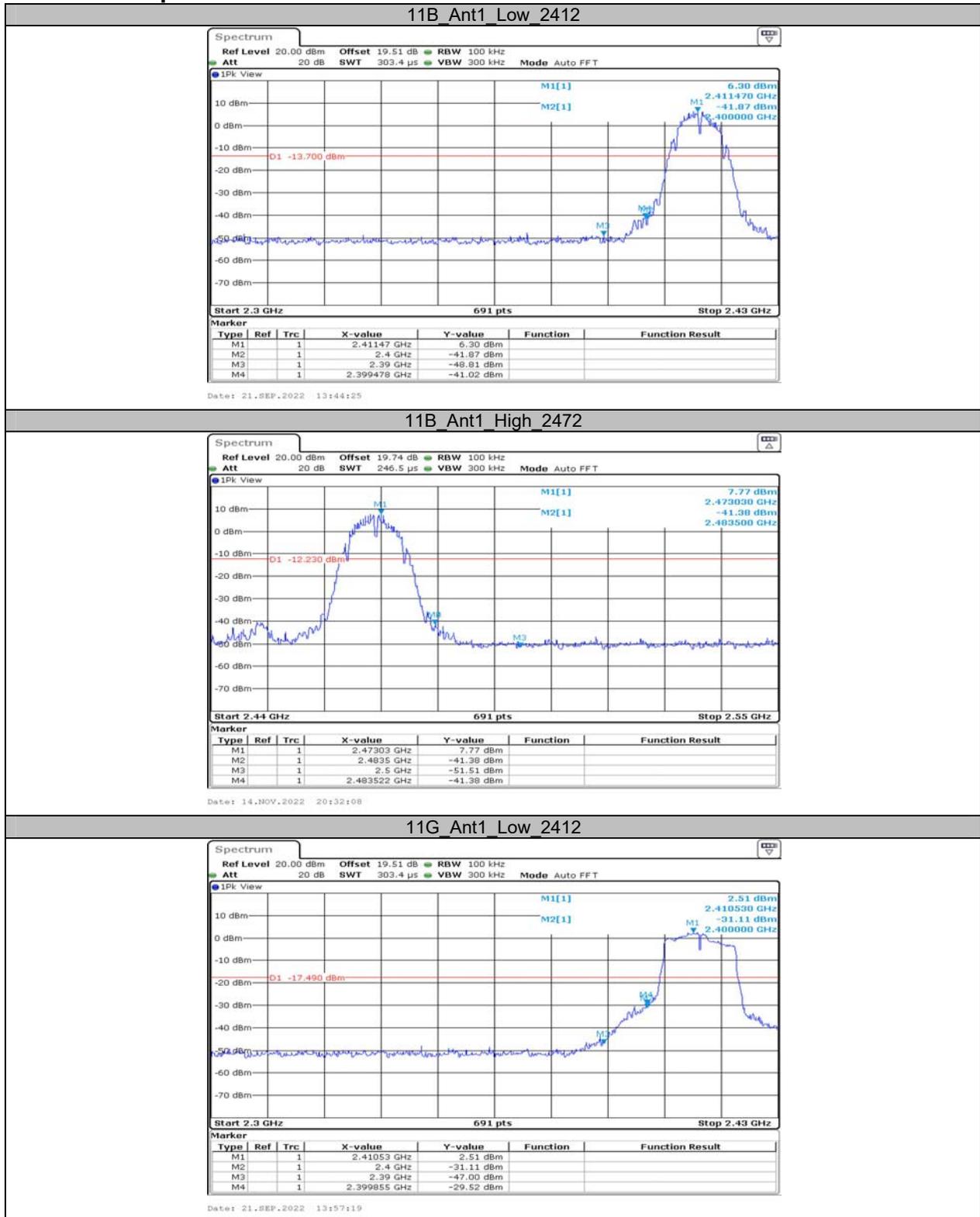
### Test Graphs

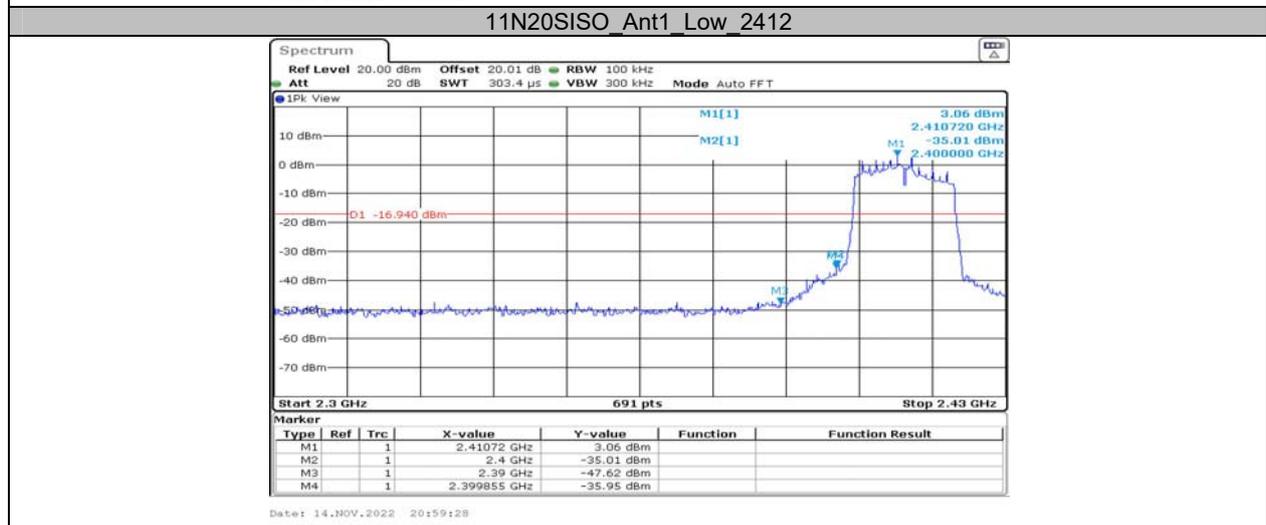
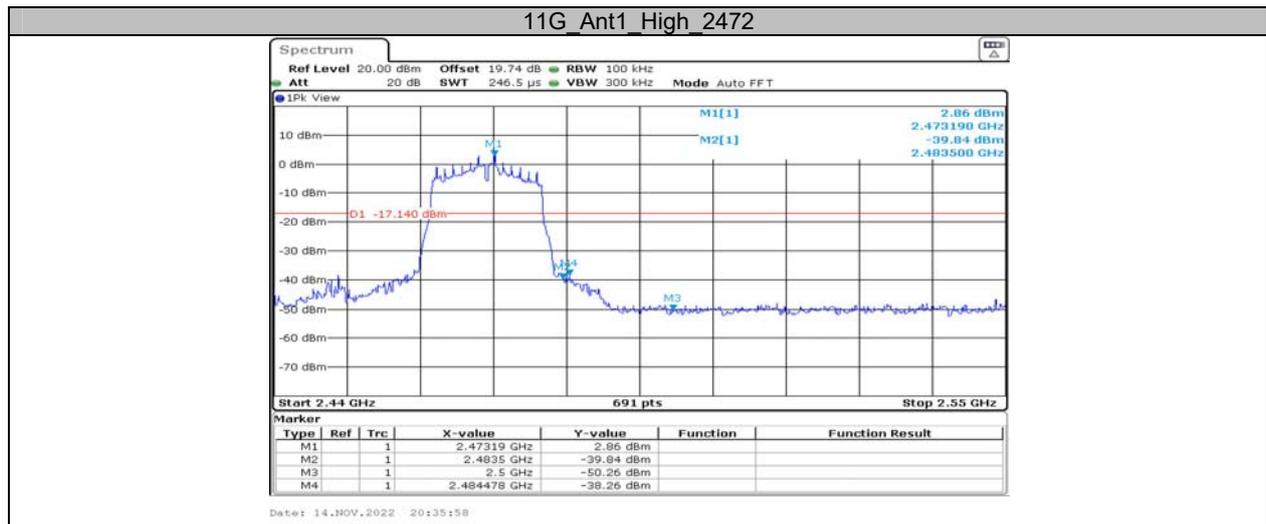






### Appendix E: Band edge measurements Test Graphs





**Appendix F: Duty Cycle  
Test Result**

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	27	27	100.00
11G	Ant1	2412	27	27	100.00
11N20SISO	Ant1	2412	27	27	100.00

### Test Graphs

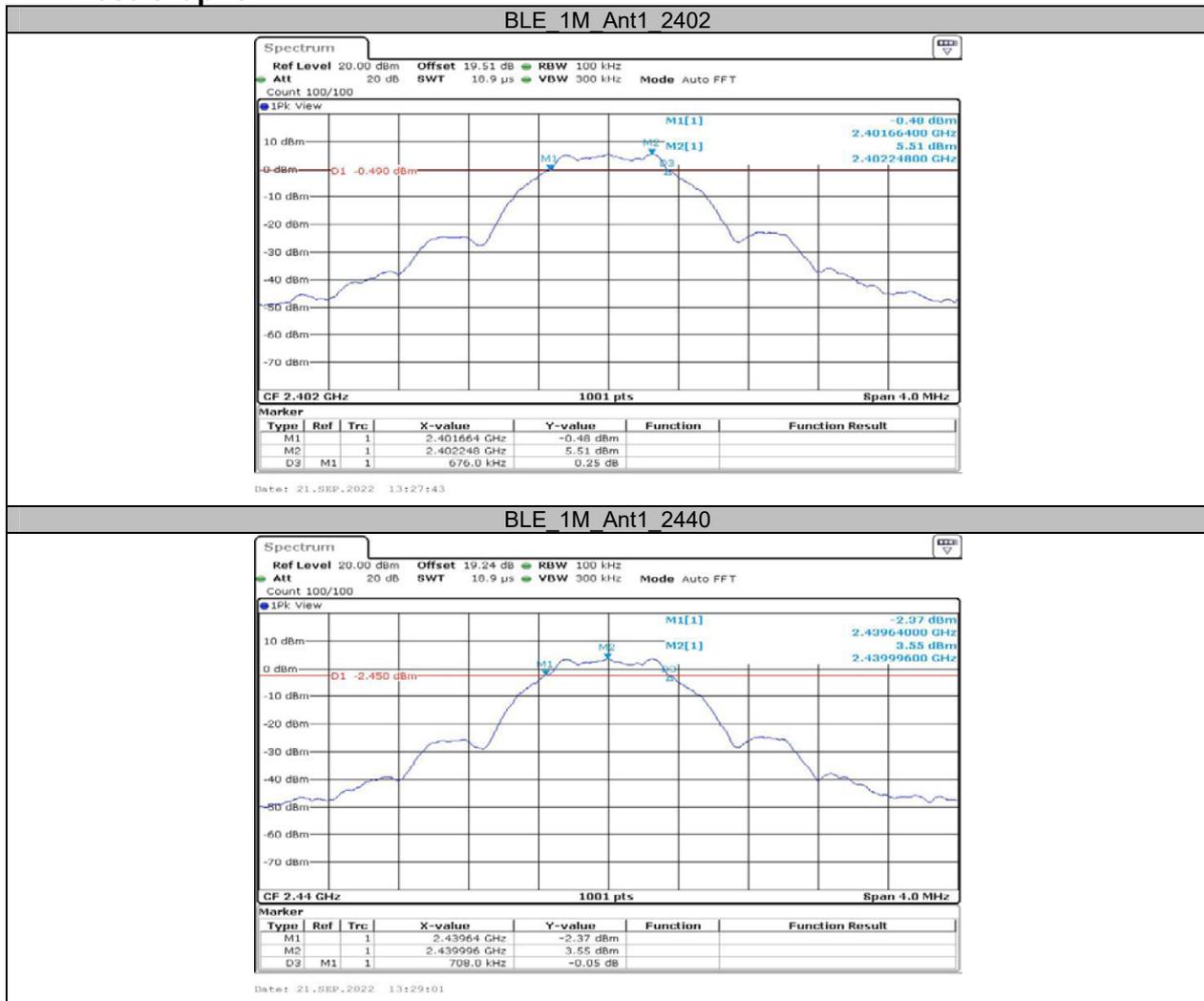


## APPENDIX BLE

### Appendix A: DTS Bandwidth Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	2401.66	2402.34	0.5	PASS
		2440	0.71	2439.64	2440.35	0.5	PASS
		2480	0.72	2479.64	2480.35	0.5	PASS

### Test Graphs

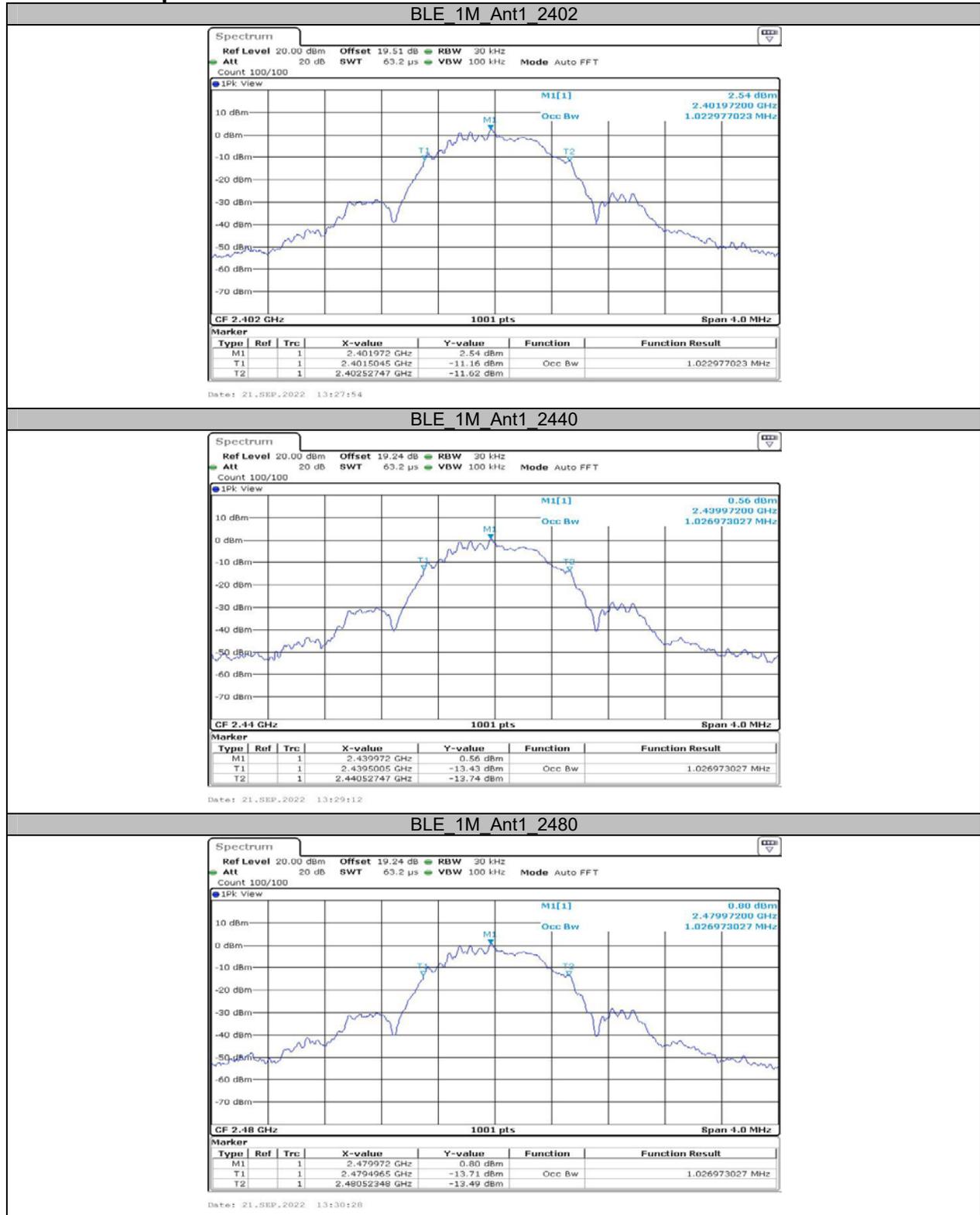




**Appendix B: Occupied Channel Bandwidth  
Test Result**

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.023	2401.504	2402.527	---	---
		2440	1.027	2439.500	2440.527	---	---
		2480	1.027	2479.497	2480.523	---	---

### Test Graphs

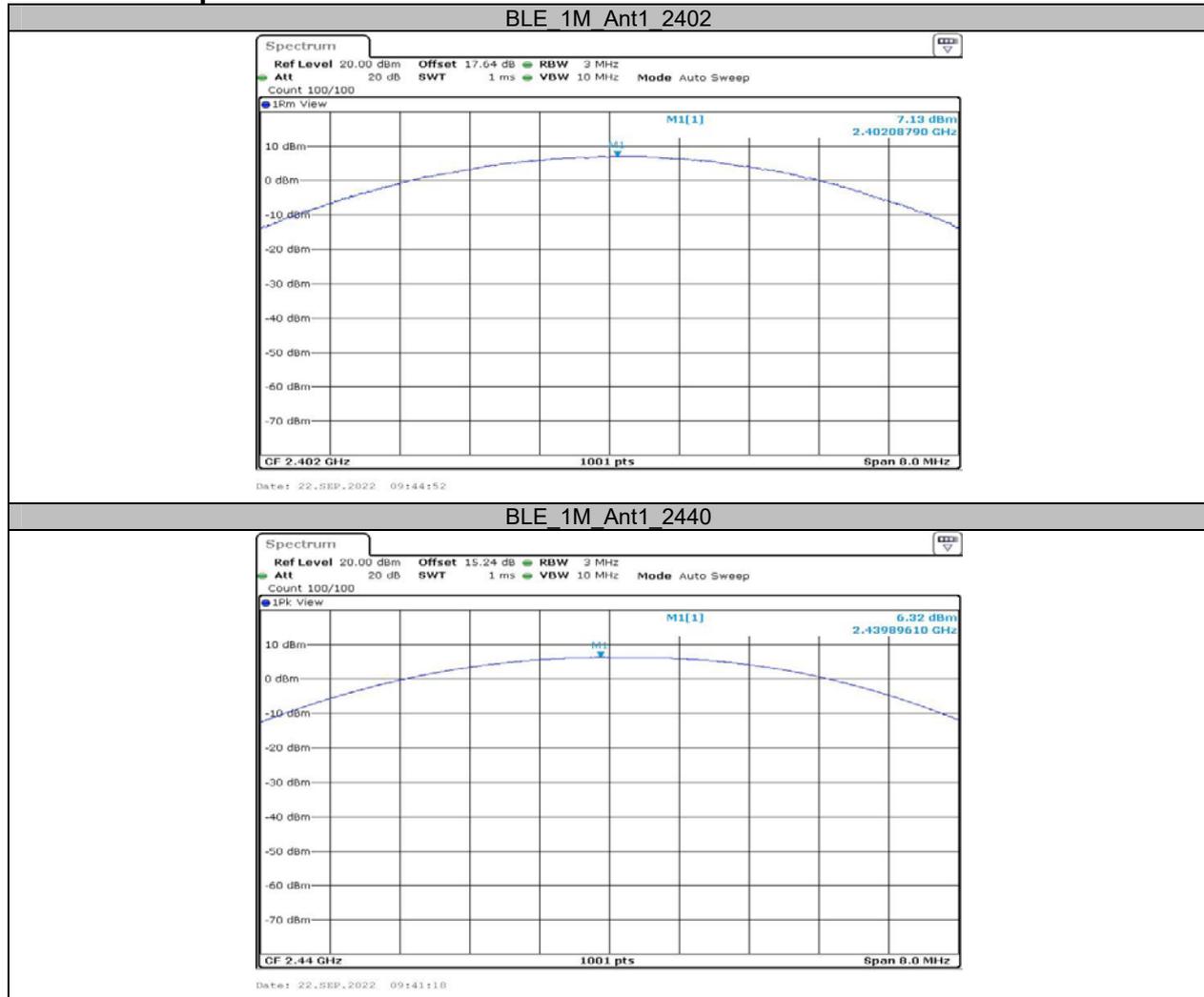


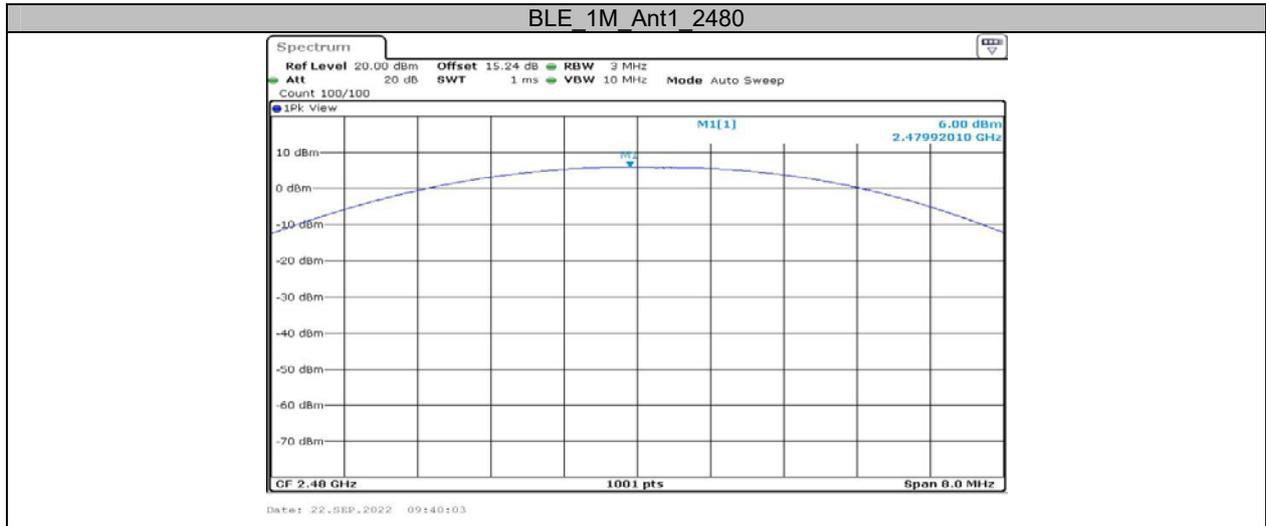
### Appendix C: Maximum conducted output power

#### Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	7.13	≤30	PASS
		2440	6.32	≤30	PASS
		2480	6.00	≤30	PASS

#### Test Graphs

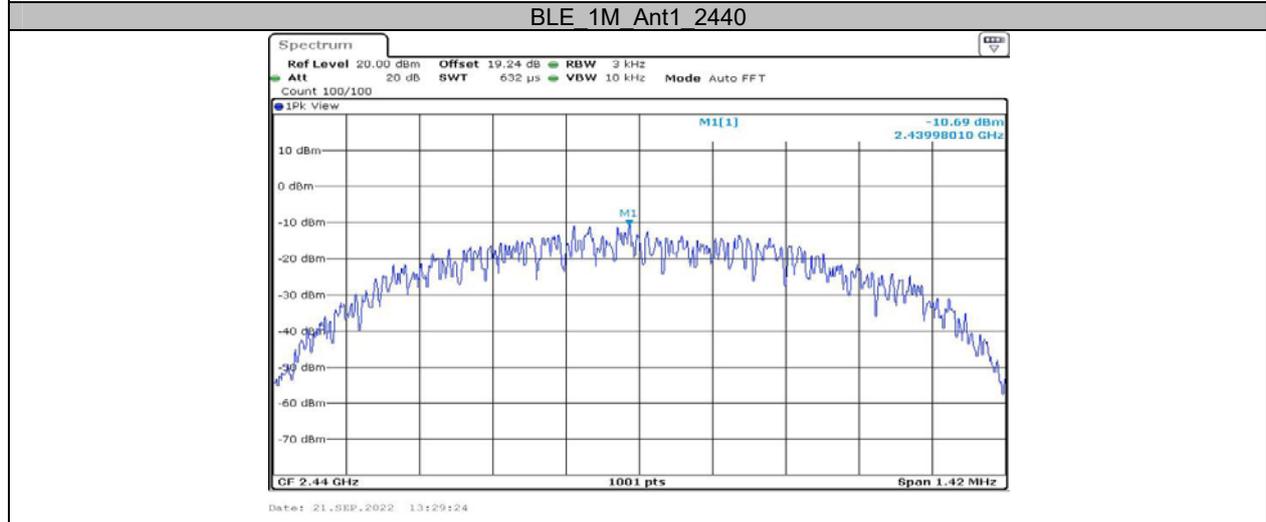
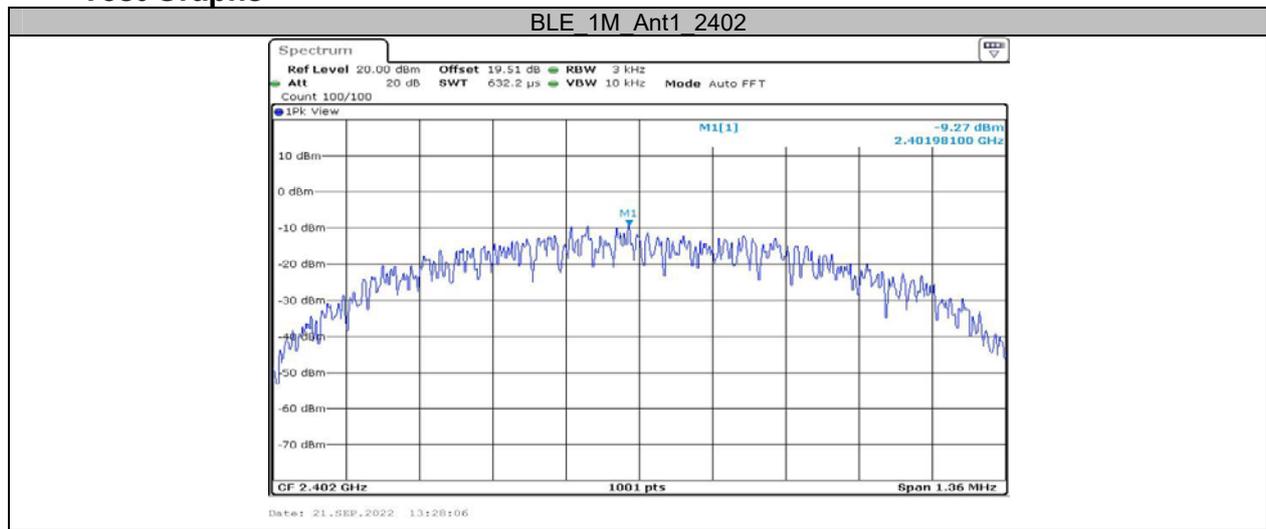


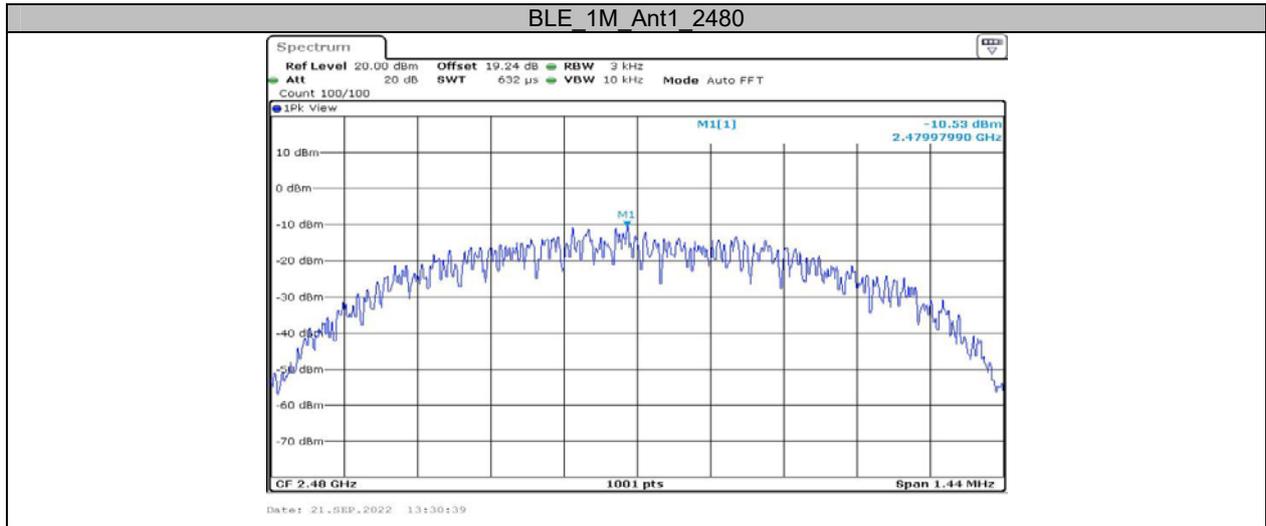


### Appendix D: Maximum power spectral density Test Result

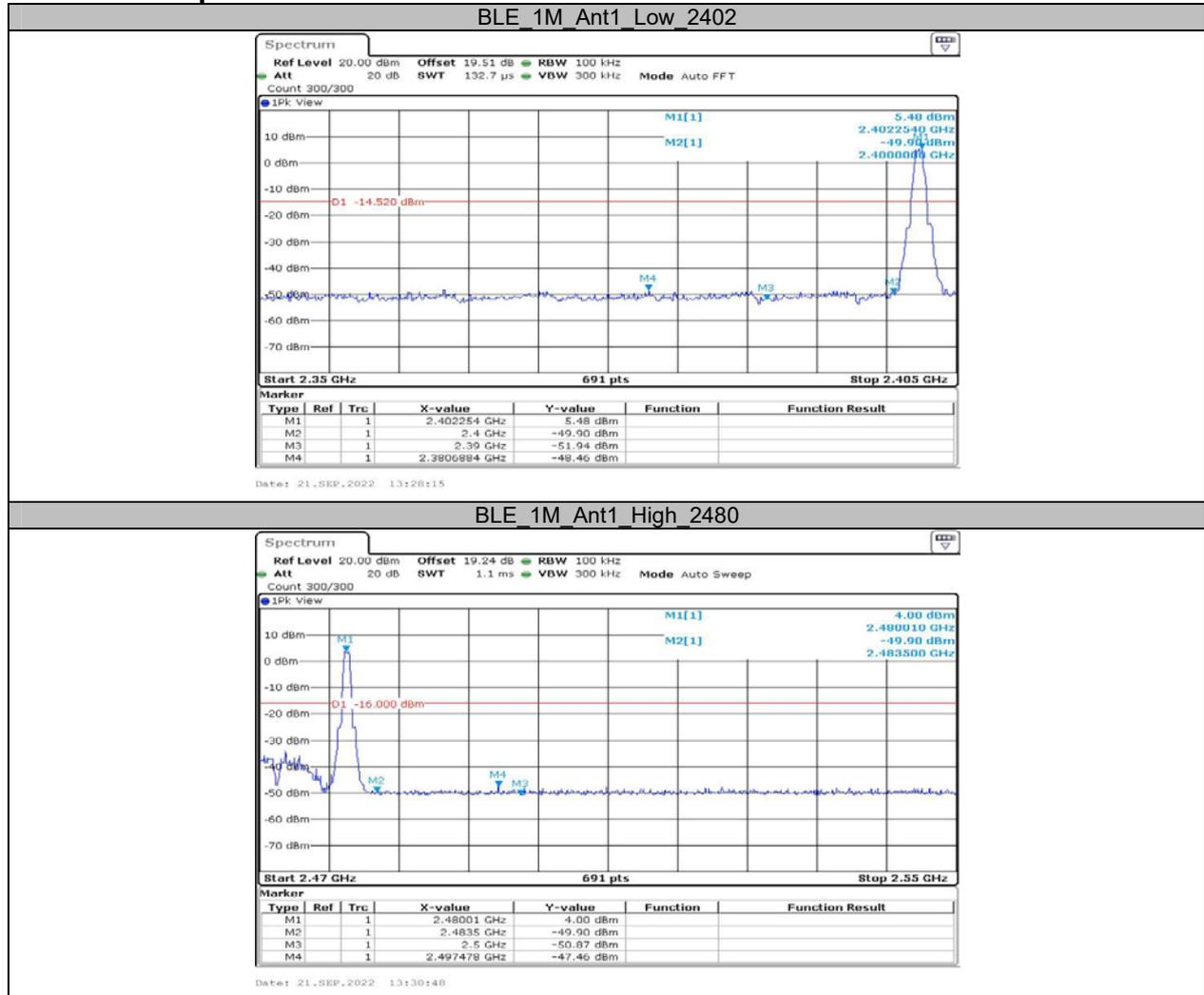
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.27	≤8.00	PASS
		2440	-10.69	≤8.00	PASS
		2480	-10.53	≤8.00	PASS

### Test Graphs





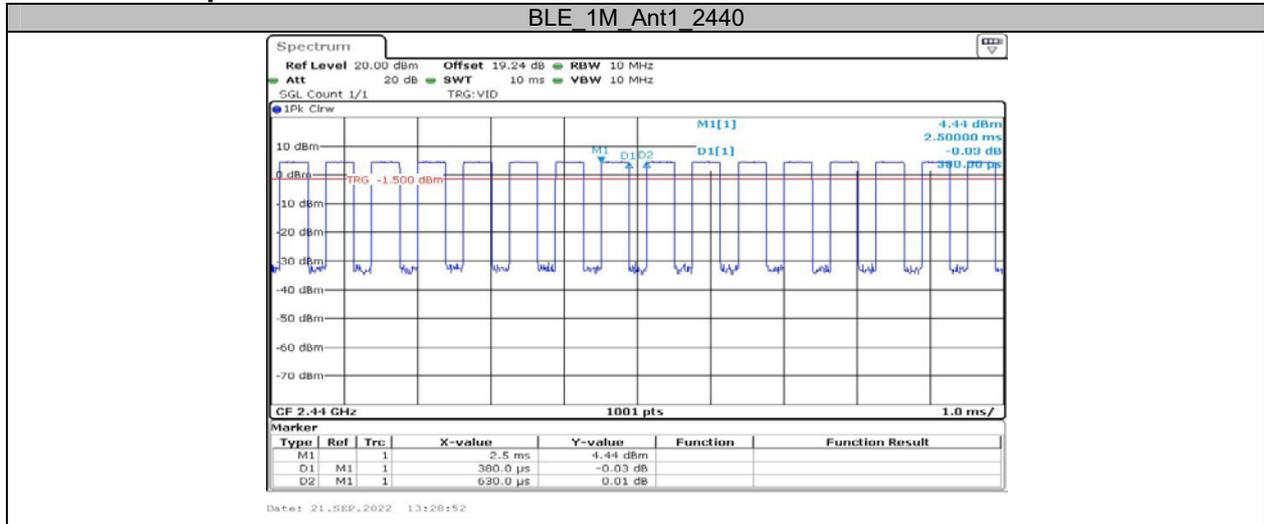
### Appendix E: Band edge measurements Test Graphs



**Appendix F: Duty Cycle  
Test Result**

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	1/T (kHz)
BLE_1M	Ant1	2440	0.38	0.63	60.32	2.63

**Test Graphs**



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