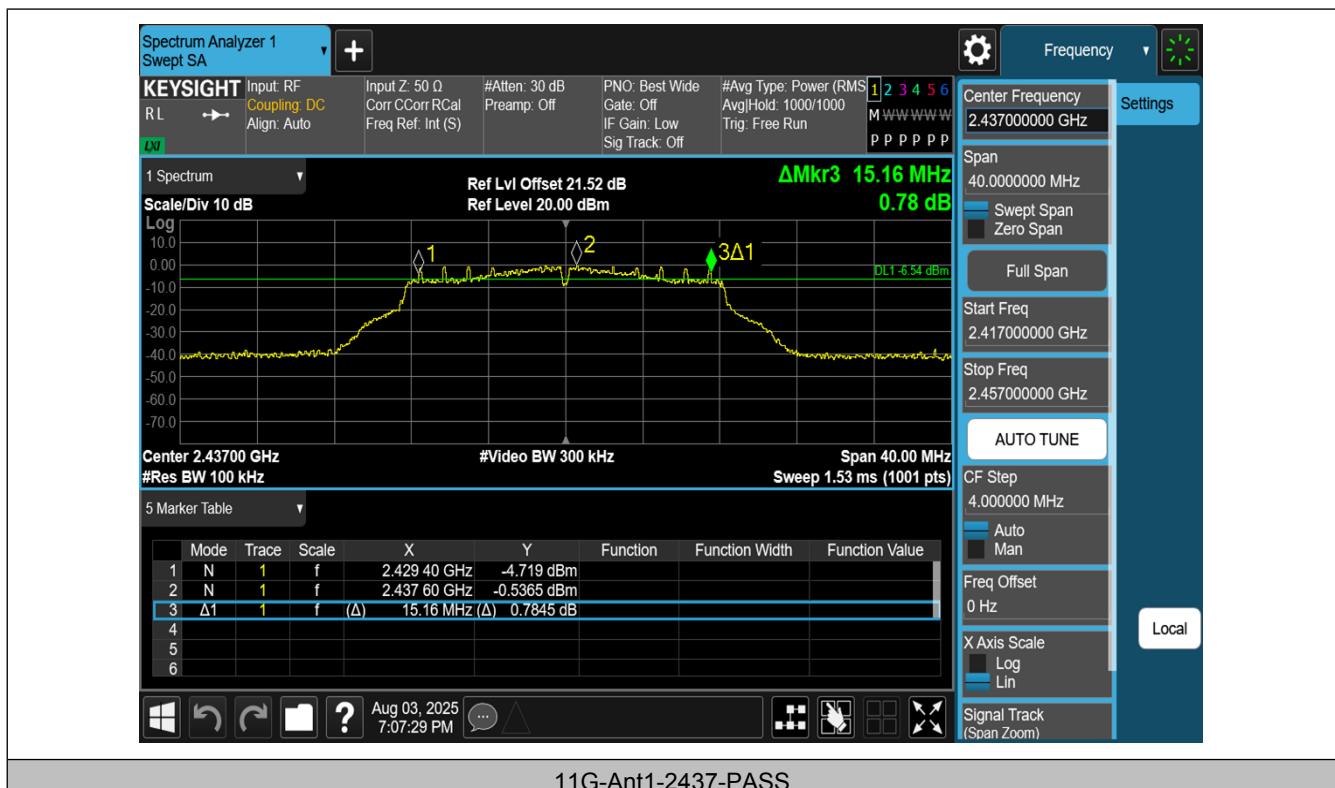




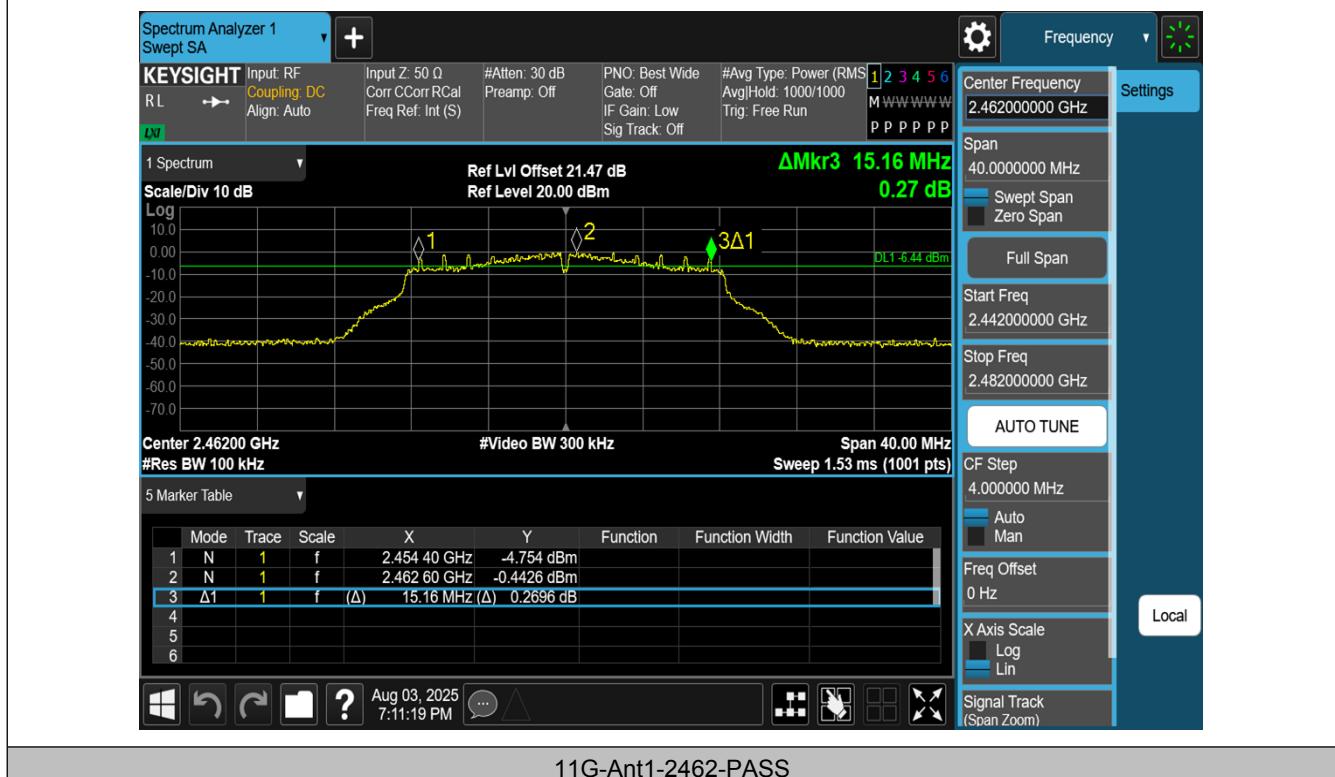
11B-Ant1-2462-PASS



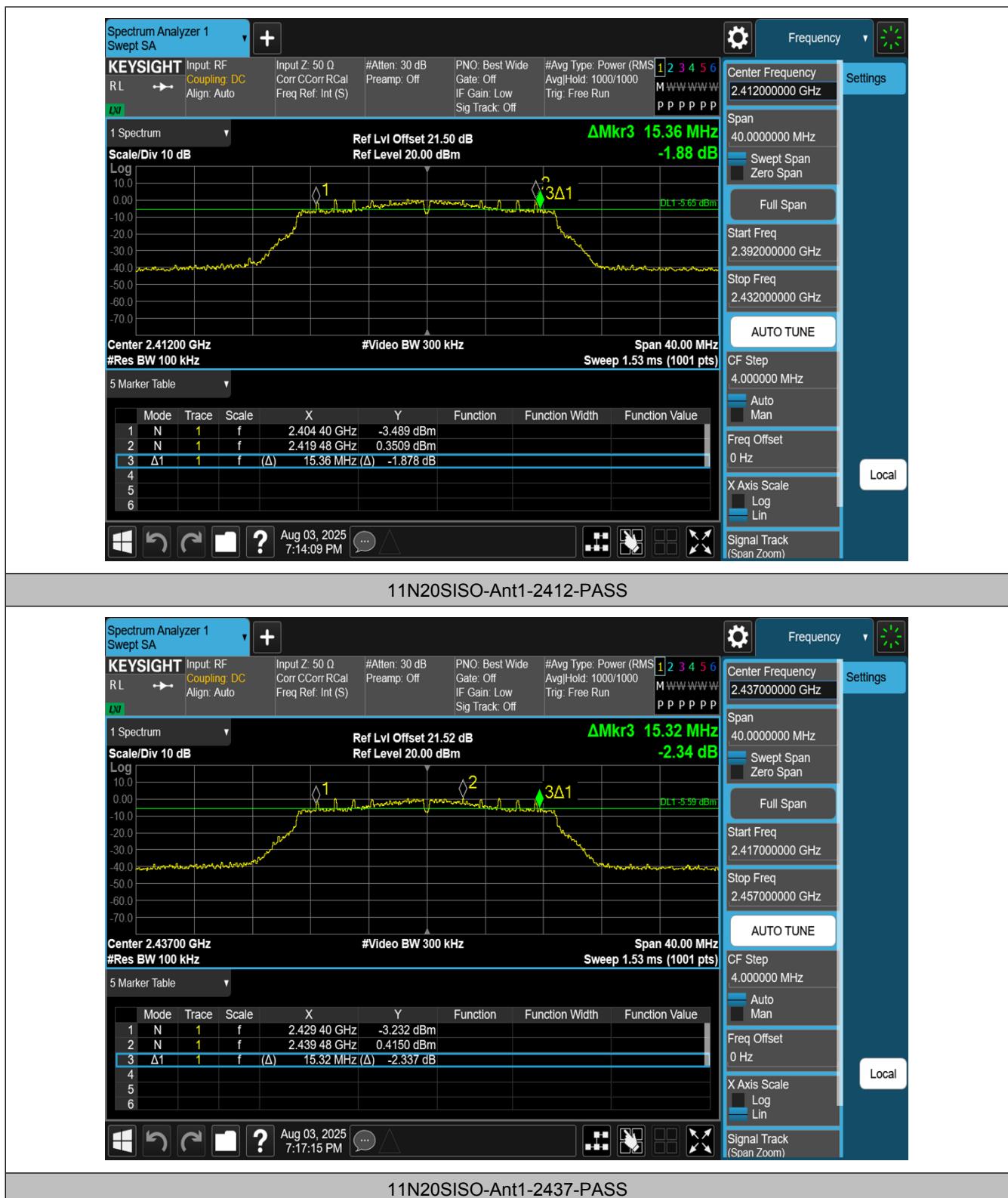
11G-Ant1-2412-PASS

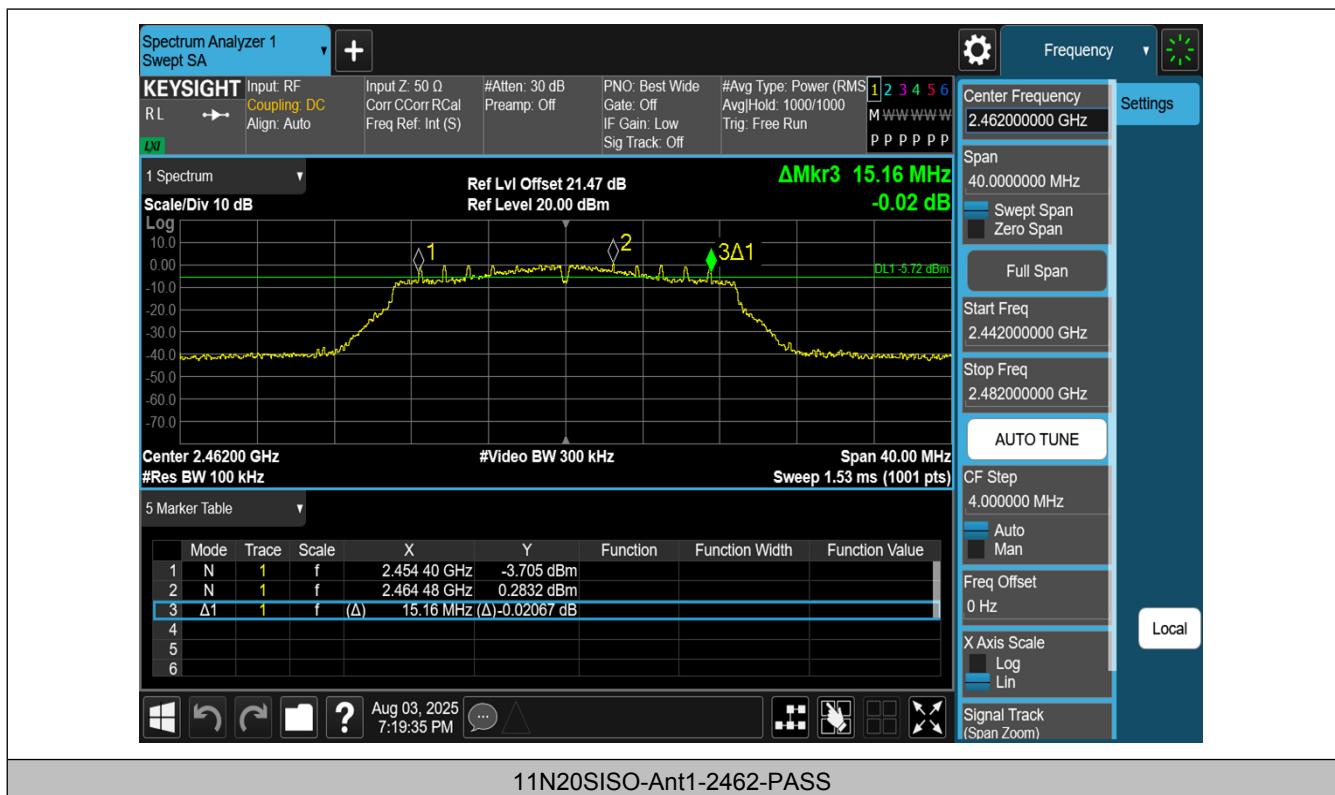


11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



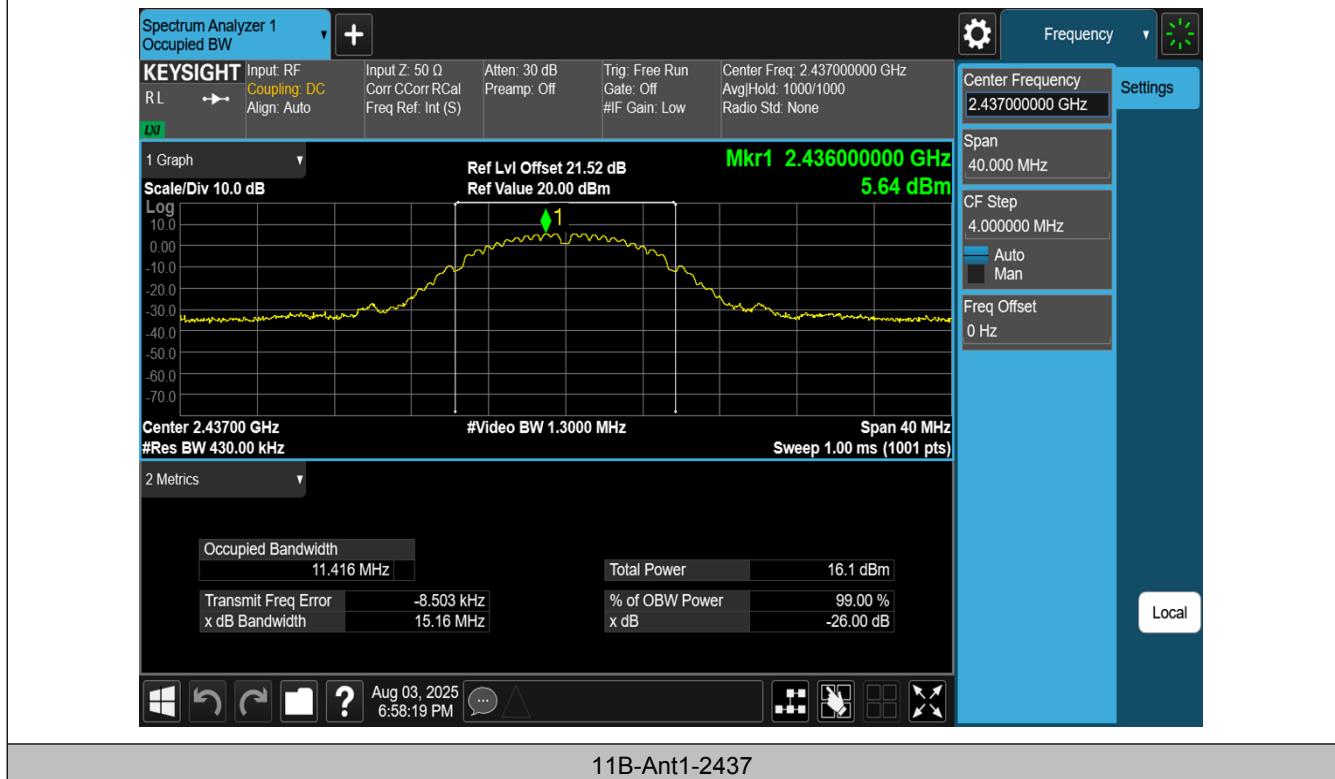


Occupied Channel Bandwidth

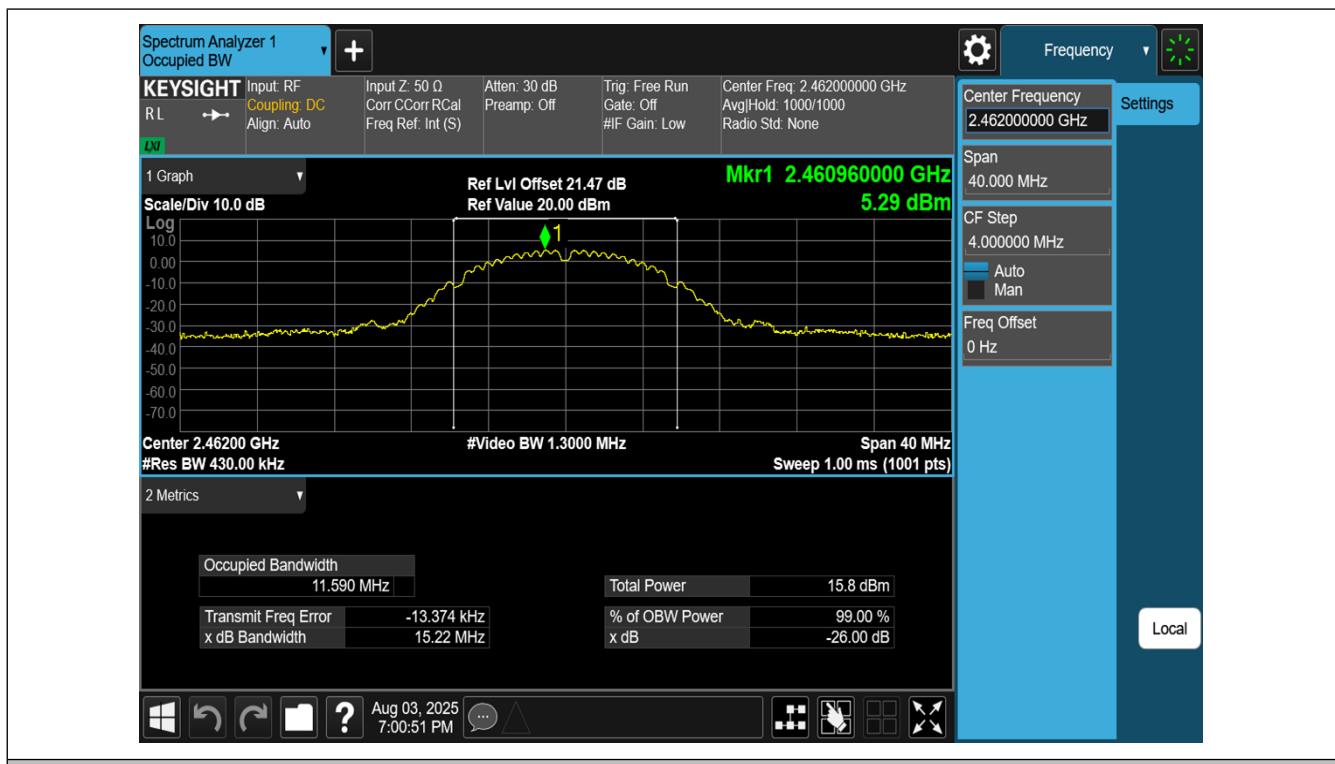
Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.388	2406.3545	2417.7425	---	---
		2437	11.416	2431.2835	2442.6995	---	---
		2462	11.590	2456.1916	2467.7816	---	---
11G	Ant1	2412	17.098	2403.4516	2420.5496	---	---
		2437	17.120	2428.3838	2445.5038	---	---
		2462	16.902	2453.4881	2470.3901	---	---
11N20SISO	Ant1	2412	17.986	2402.9926	2420.9786	---	---
		2437	18.008	2427.9687	2445.9767	---	---
		2462	17.942	2452.9671	2470.9091	---	---



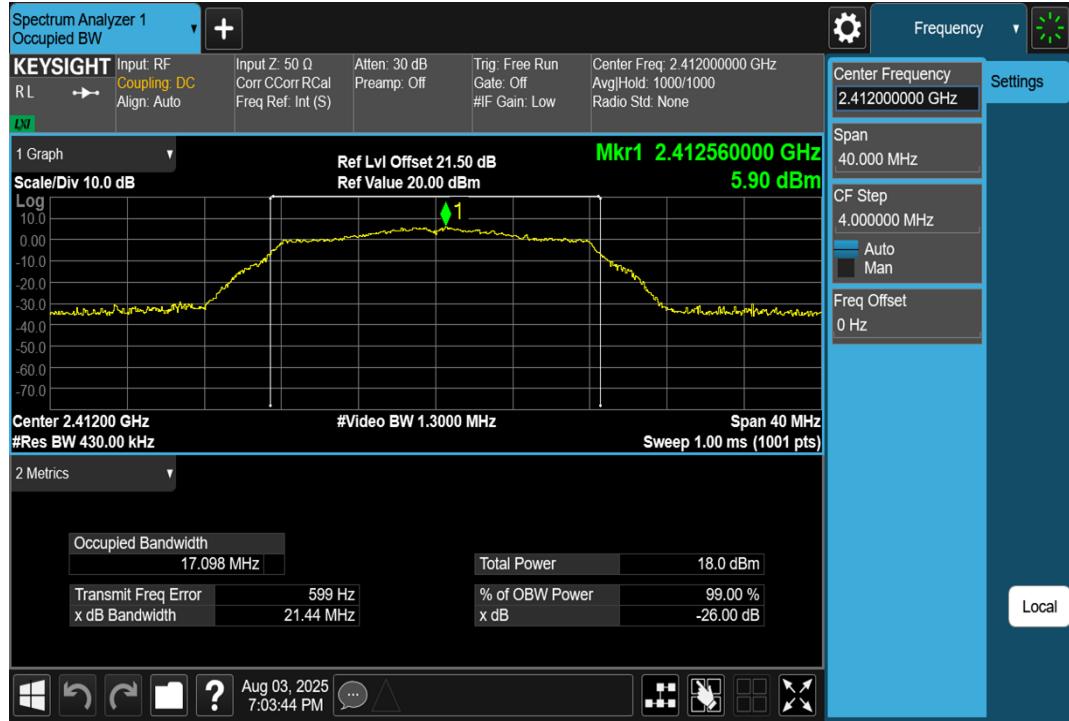
11B-Ant1-2412



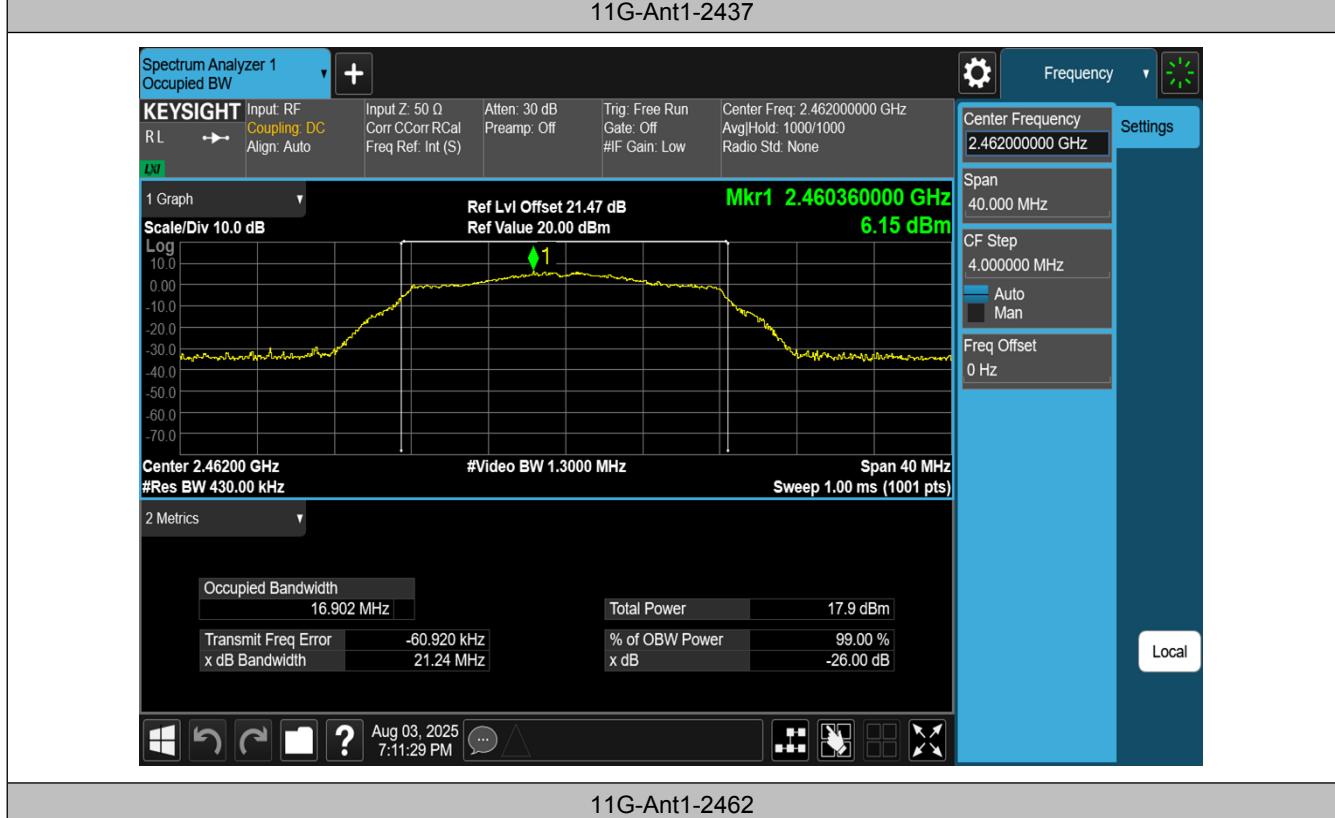
11B-Ant1-2437



11B-Ant1-2462

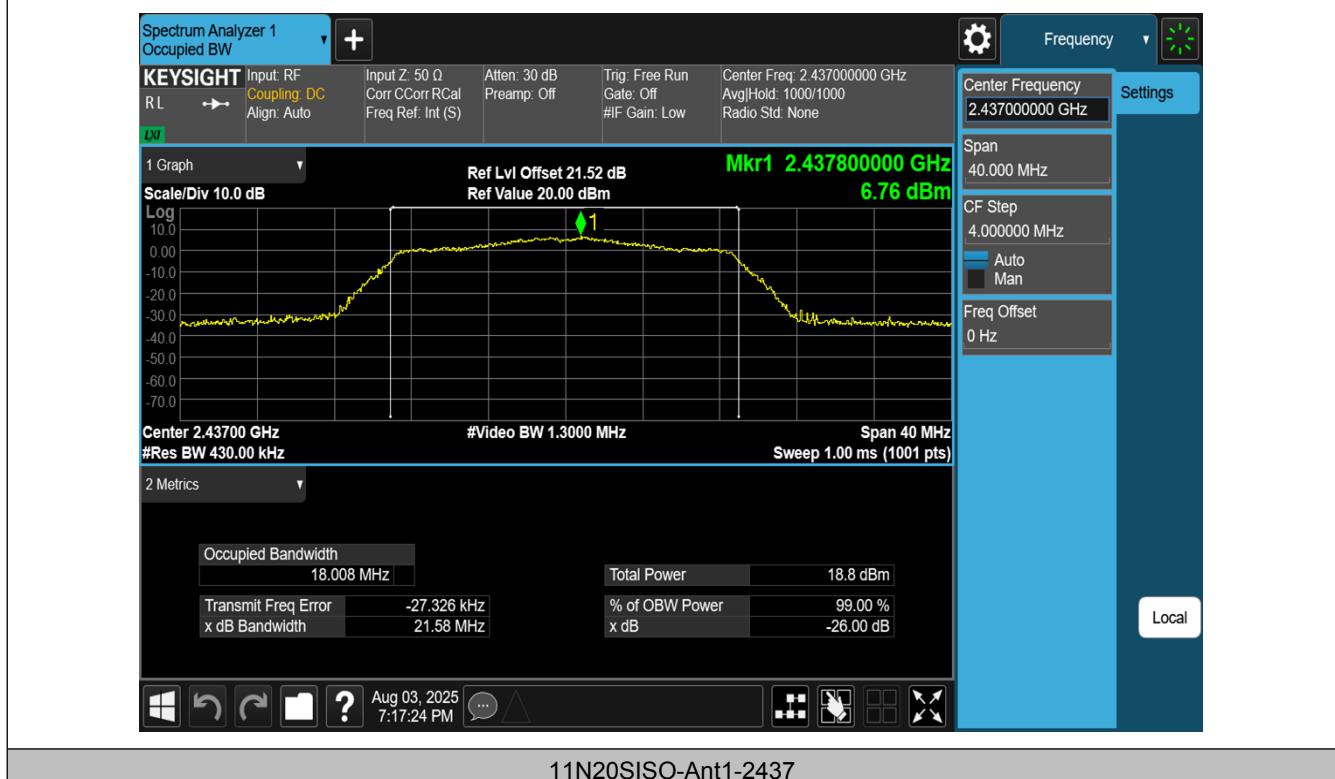


11G-Ant1-2412

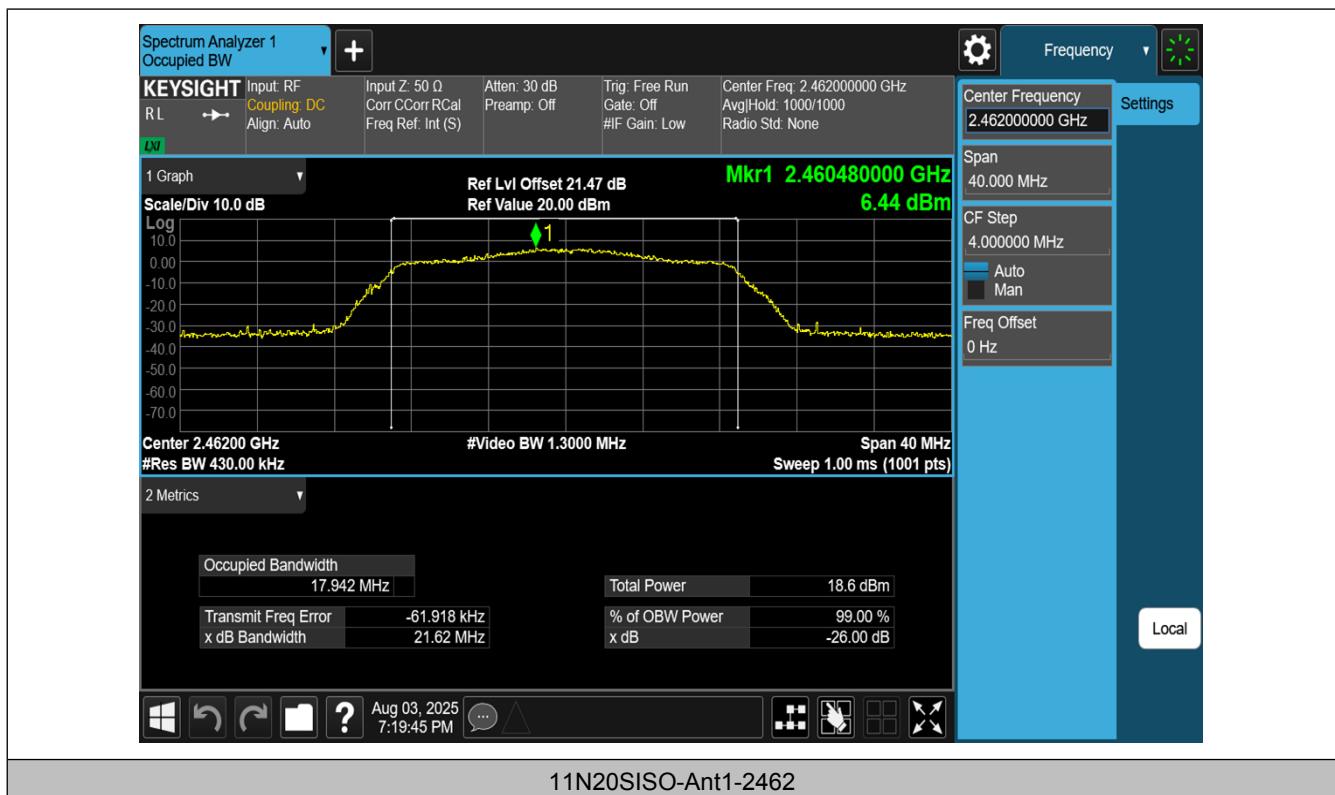




11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



### 3.5 Maximum conducted output power

#### 3.5.1 Limit

For systems using digital modulation in the 2400~2483.5MHz, The Maximum output Power shall not exceed 1W(30dBm)

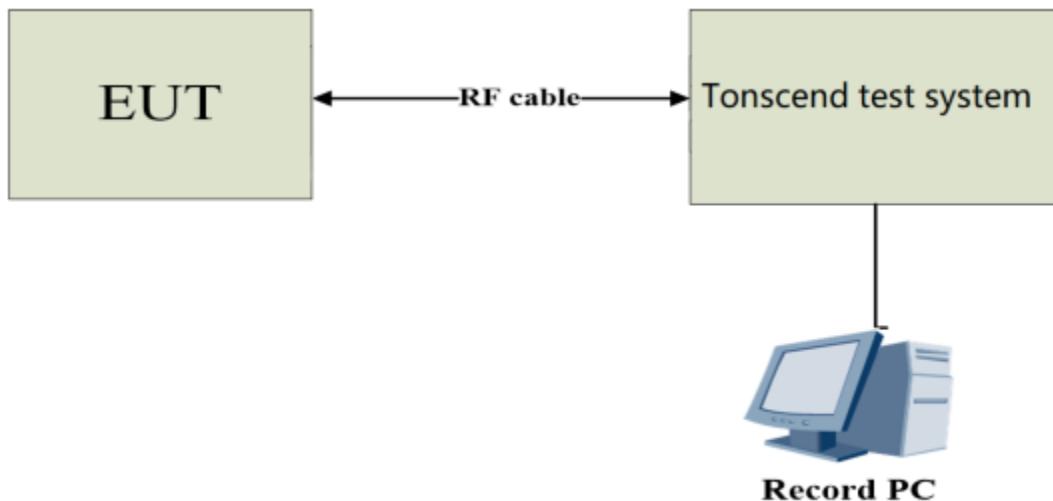
#### 3.5.2 Test Procedure

Test Method	
● Conducted Measurement	<input type="radio"/> Radiated Measurement
Test Channels	
● Lowest, Middle and Highest Channel	<input type="radio"/> Lowest and Highest Channel
Environmental conditions	
● Normal	<input type="radio"/> Normal and Extreme

Note: ● : Test    ○ : No Test

- The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3 (for average power) of ANSI C63.10-2013.

#### 3.5.3 Test Setup



### 3.5.4 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

For Power setting value

Test Mode	Power Level Setting defined by Manufacturer		
Test Software Version	adb.exe		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	14	14	14
IEEE 802.11g	13	13	13
IEEE 802.11n(20)	13	13	13

### 3.5.5 The Result

Test Mode	Antenna	Frequency[MHz]	Maximum conducted output Power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	15.52	≤30.00	PASS
		2437	15.56	≤30.00	PASS
		2462	15.24	≤30.00	PASS
11G	Ant1	2412	14.50	≤30.00	PASS
		2437	14.52	≤30.00	PASS
		2462	14.46	≤30.00	PASS
11N20SISO	Ant1	2412	14.08	≤30.00	PASS
		2437	14.14	≤30.00	PASS
		2462	14.37	≤30.00	PASS

Note: The duty cycle factor and line loss are compensated in the average conducted output power.

## 3.6 Power Spectral Density

### 3.6.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmitting.

### 3.6.2 Test Procedure

Test Method	
● Conducted Measurement	<input type="radio"/> Radiated Measurement
Test Channels	
● Lowest, Middle and Highest Channel	<input type="radio"/> Lowest and Highest Channel
Environmental conditions	
● Normal	<input type="radio"/> Normal and Extreme

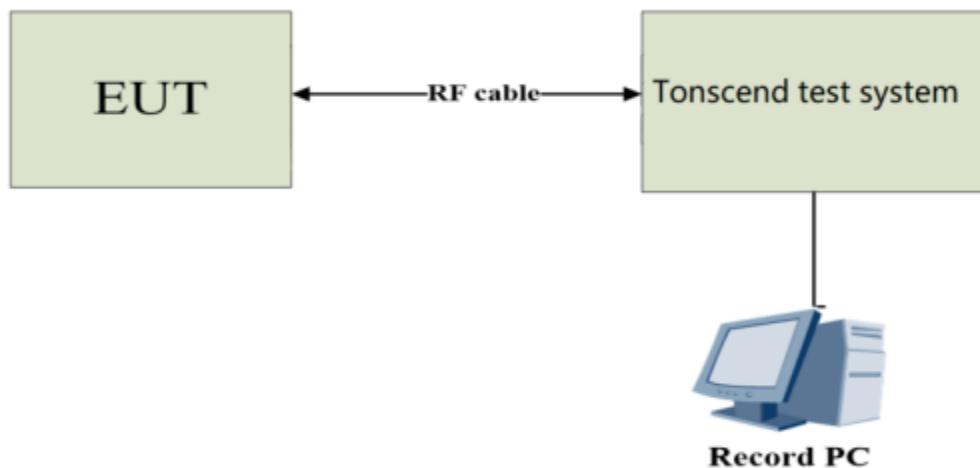
Note: ● : Test    ○ : No Test

a) The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.

b) Spectrum analyser settings as following:

Spectrum Parameters	Setting
Span Frequency	1.5 times the DTS bandwidth
RBW	3 kHz
VBW	10 kHz
Detector	Average
Trace	Max Hold
Sweep Time	Auto

### 3.6.3 Test Setup



### 3.6.4 The Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.89	≤8.00	PASS
		2437	-16.45	≤8.00	PASS
		2462	-16.57	≤8.00	PASS
11G	Ant1	2412	-16.59	≤8.00	PASS
		2437	-17.02	≤8.00	PASS
		2462	-16.46	≤8.00	PASS
11N20SISO	Ant1	2412	-19.18	≤8.00	PASS
		2437	-18.42	≤8.00	PASS
		2462	-18.97	≤8.00	PASS

Note: The duty cycle factor and line loss are compensated in the test graph.



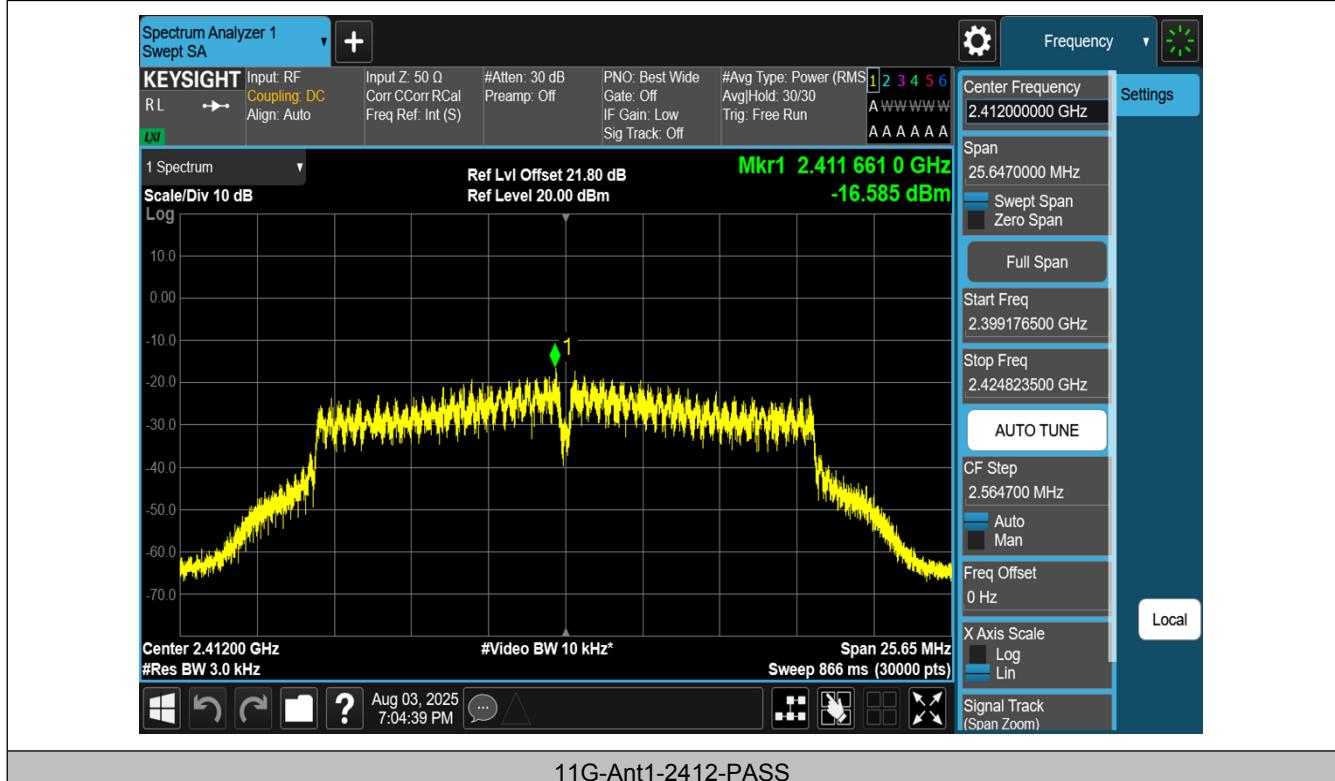
11B-Ant1-2412-PASS



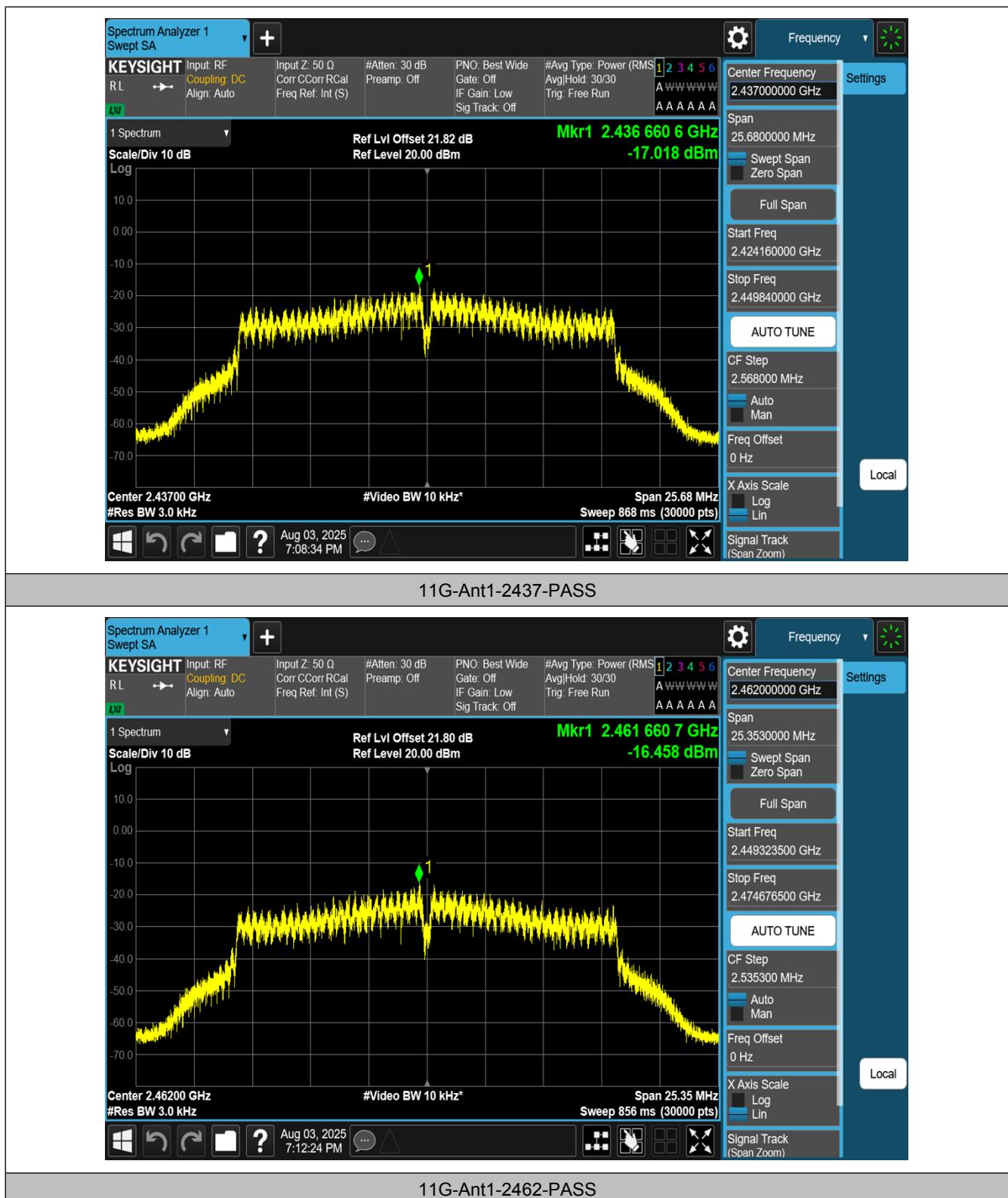
11B-Ant1-2437-PASS

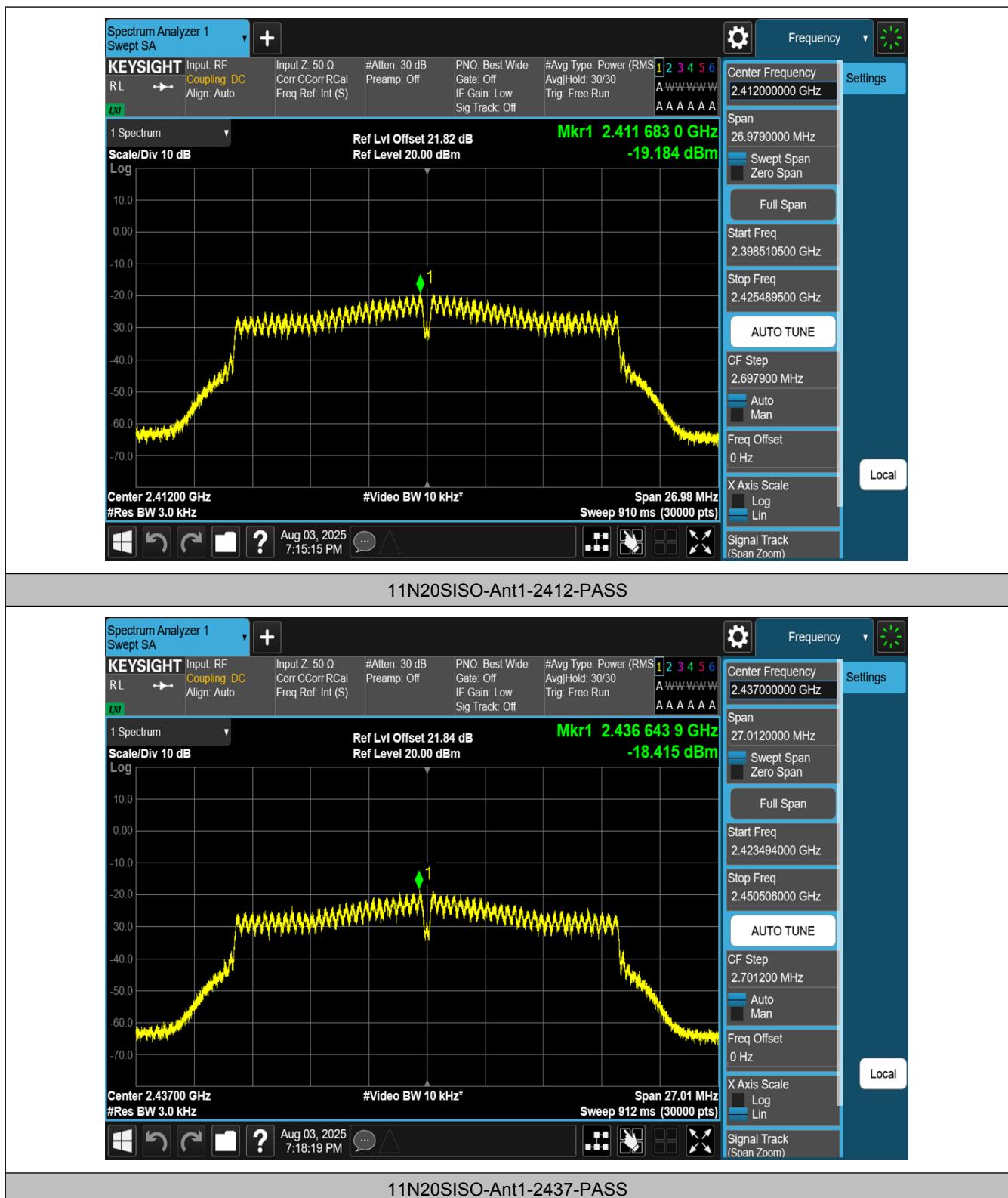


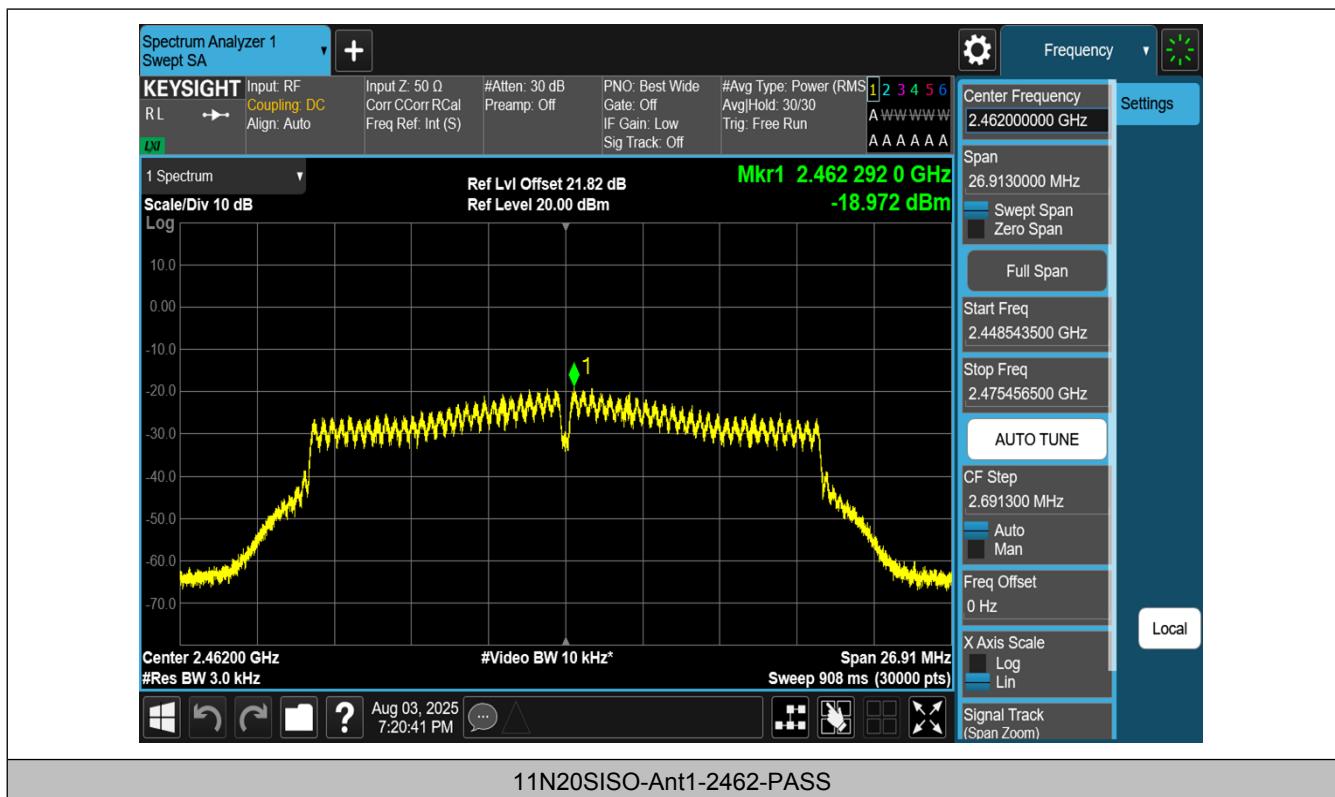
11B-Ant1-2462-PASS



11G-Ant1-2412-PASS







## Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

## Shenzhen Haiyun Standard Technical Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

Tel: 0755-26024411

Email: [service@hy-lab.cn](mailto:service@hy-lab.cn)

## End of Test Report