

ANNEX D TEST DATA

For

Project No.:	8227EU010613W
Client:	Shenzhen Divoom Technology Co., Ltd.
Product Description:	Microphone
Model No.:	SongBird-SE-Mic
FCC ID:	A8I-SE-MIC
Technology:	2.4G ISM Band (GFSK modulation)
Test Engineer:	<i>Mikey zhu</i>
Test Date:	2024-03-26

Test Summary

Item	Result
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Carrier Frequency Separation	Pass
Number of Hopping Frequencies	Pass
Time of Occupancy (Dwell Time)	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass

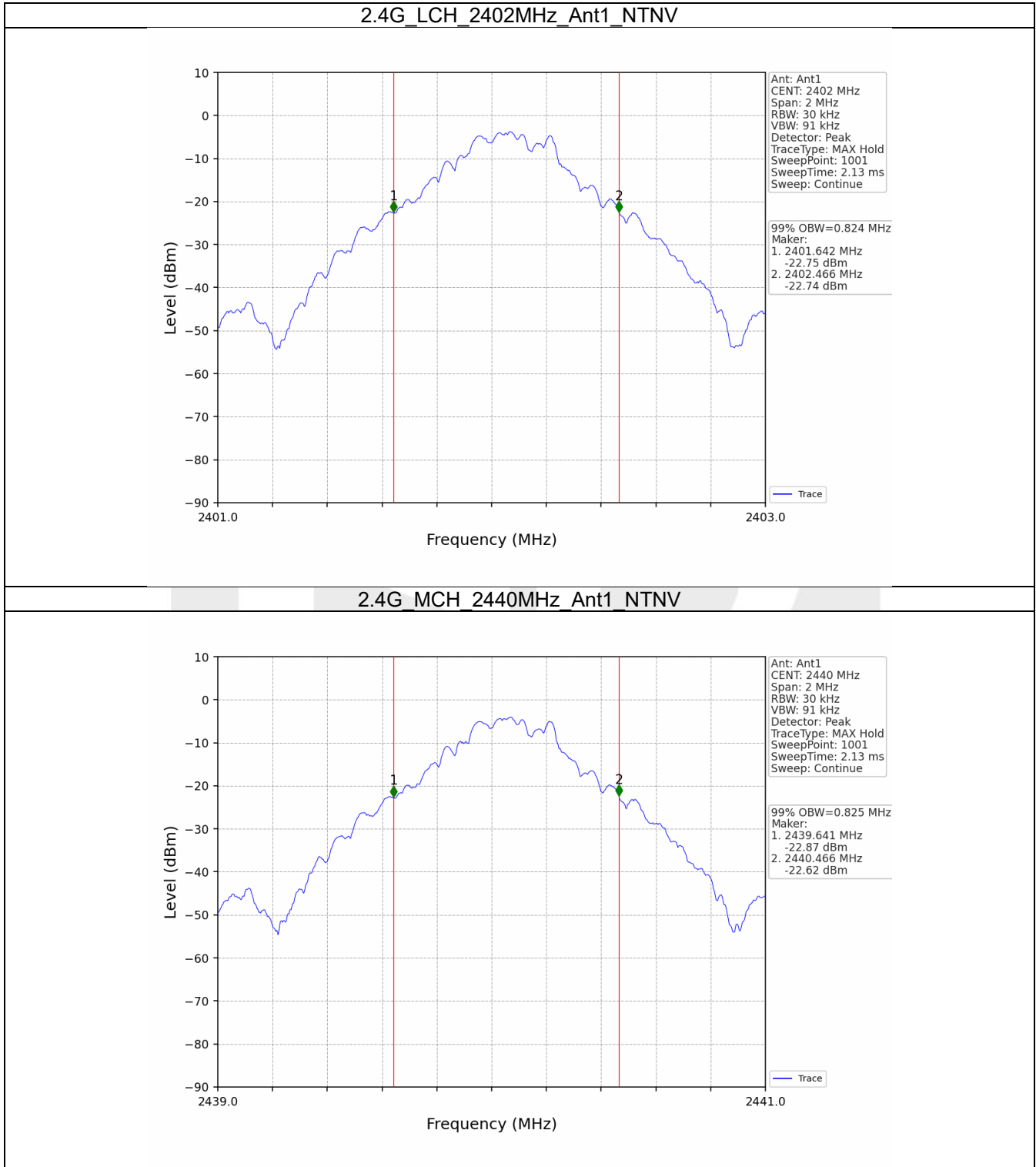
1. Bandwidth

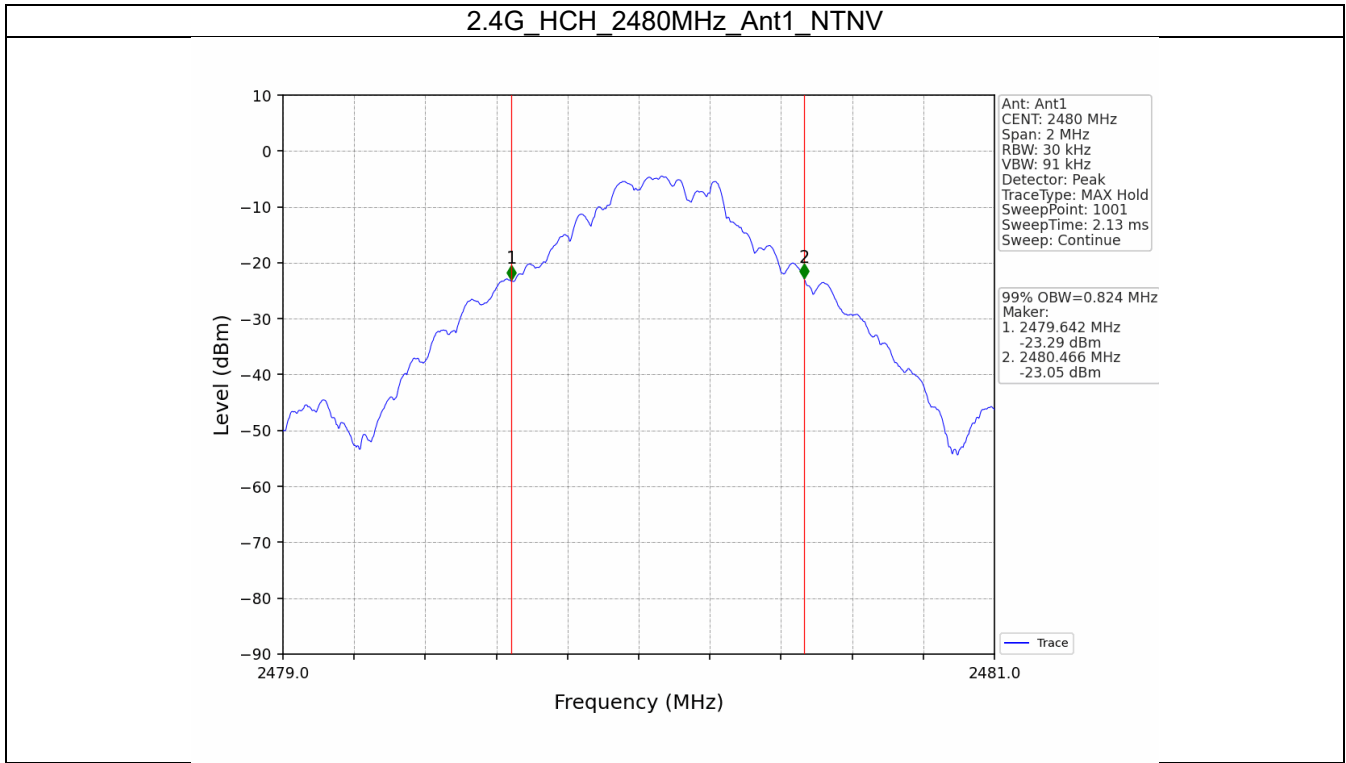
1.1 OBW

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
2.4G	SISO	2402	1	0.824	/	Pass
		2440	1	0.825	/	Pass
		2480	1	0.824	/	Pass

1.1.2 Test Graph





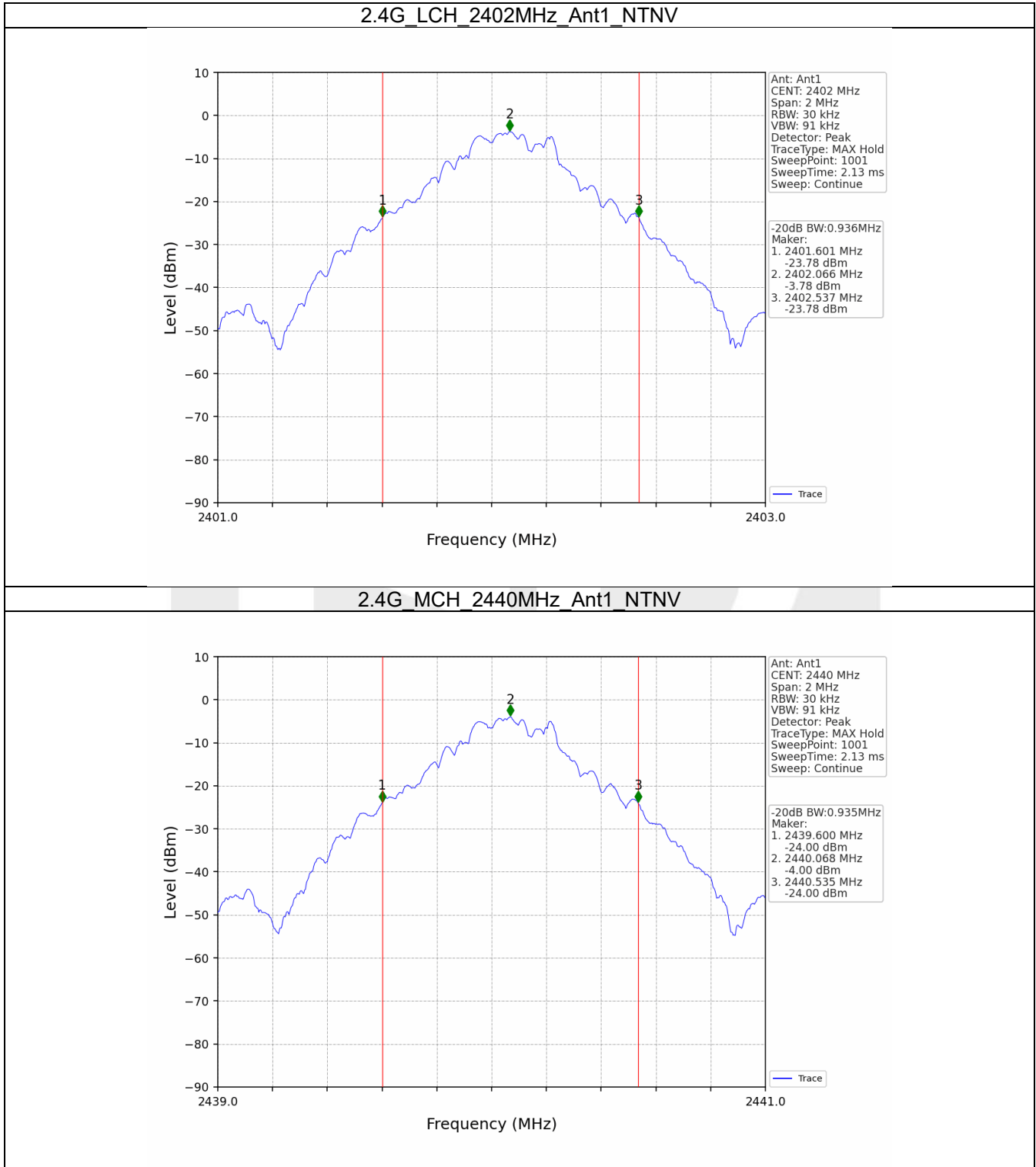
1.2 20dB BW

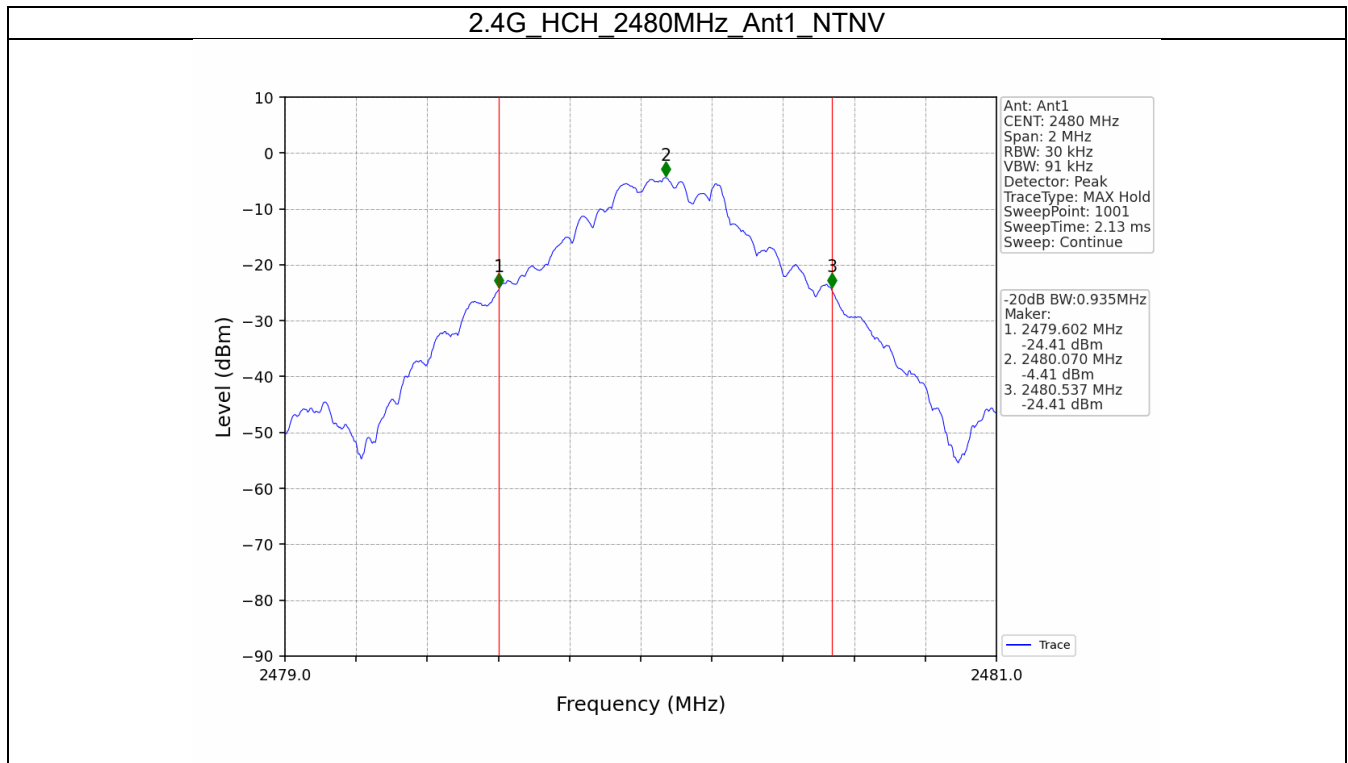
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
2.4G	SISO	2402	1	0.936	/	Pass
		2440	1	0.935	/	Pass
		2480	1	0.935	/	Pass



1.2.2 Test Graph





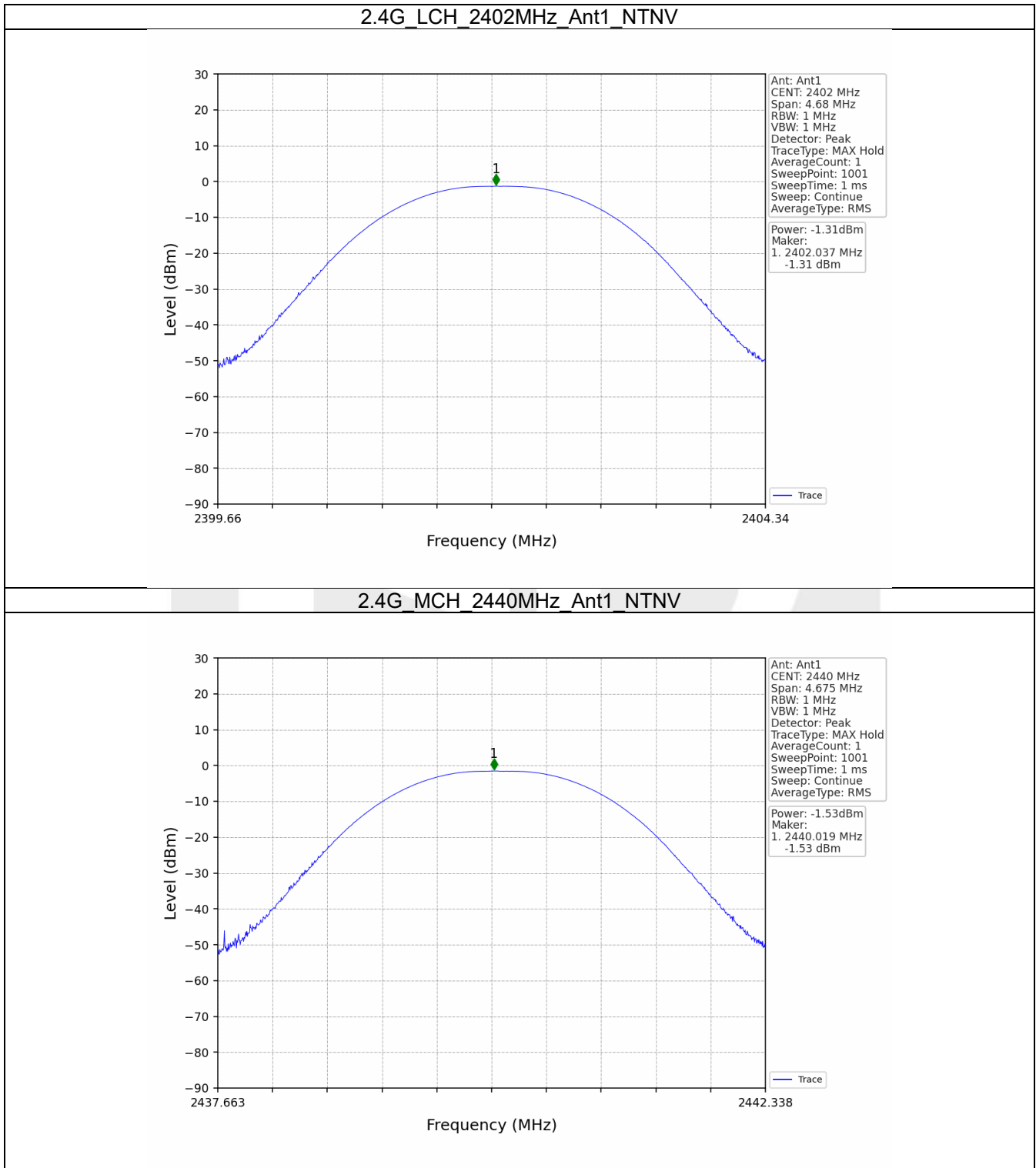
2. Maximum Conducted Output Power

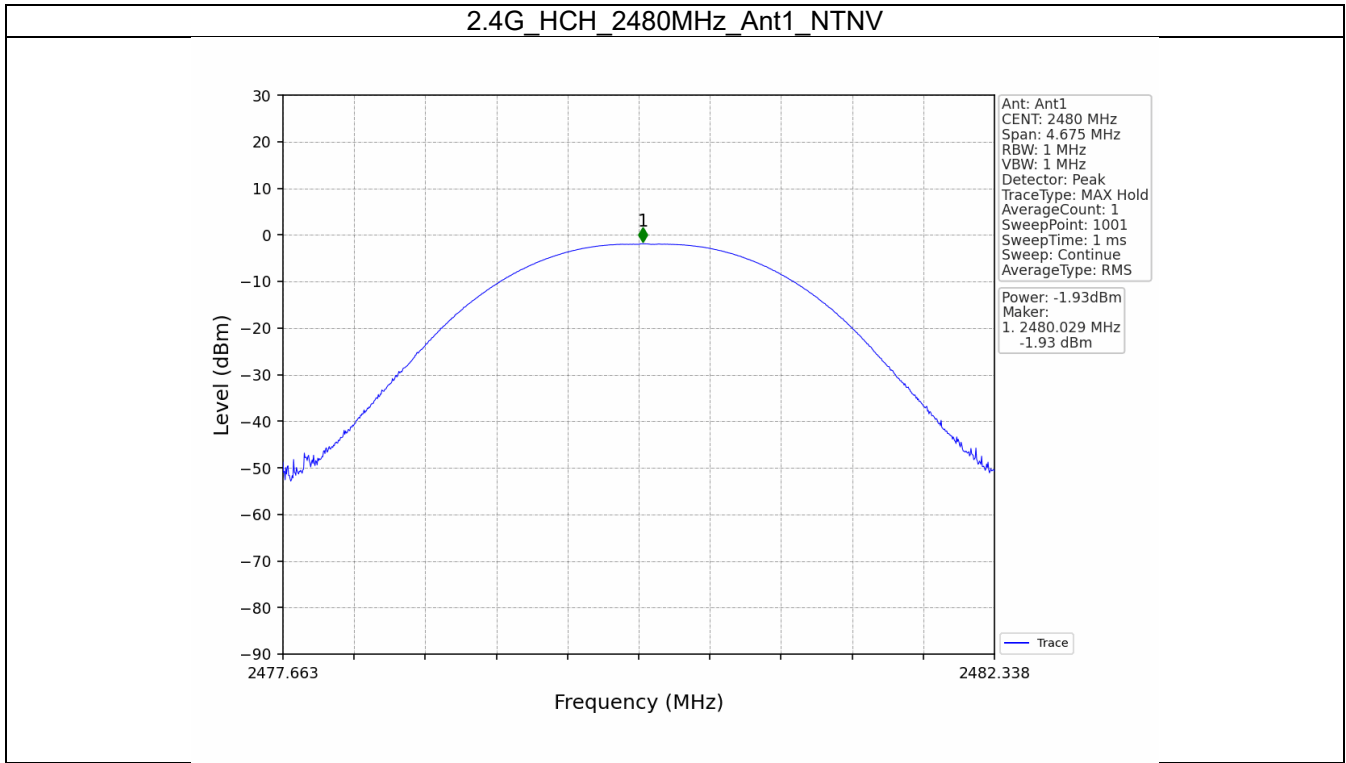
2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
2.4G	SISO	2402	-1.31	<=30	Pass
		2440	-1.53	<=30	Pass
		2480	-1.93	<=30	Pass

2.1.2 Test Graph





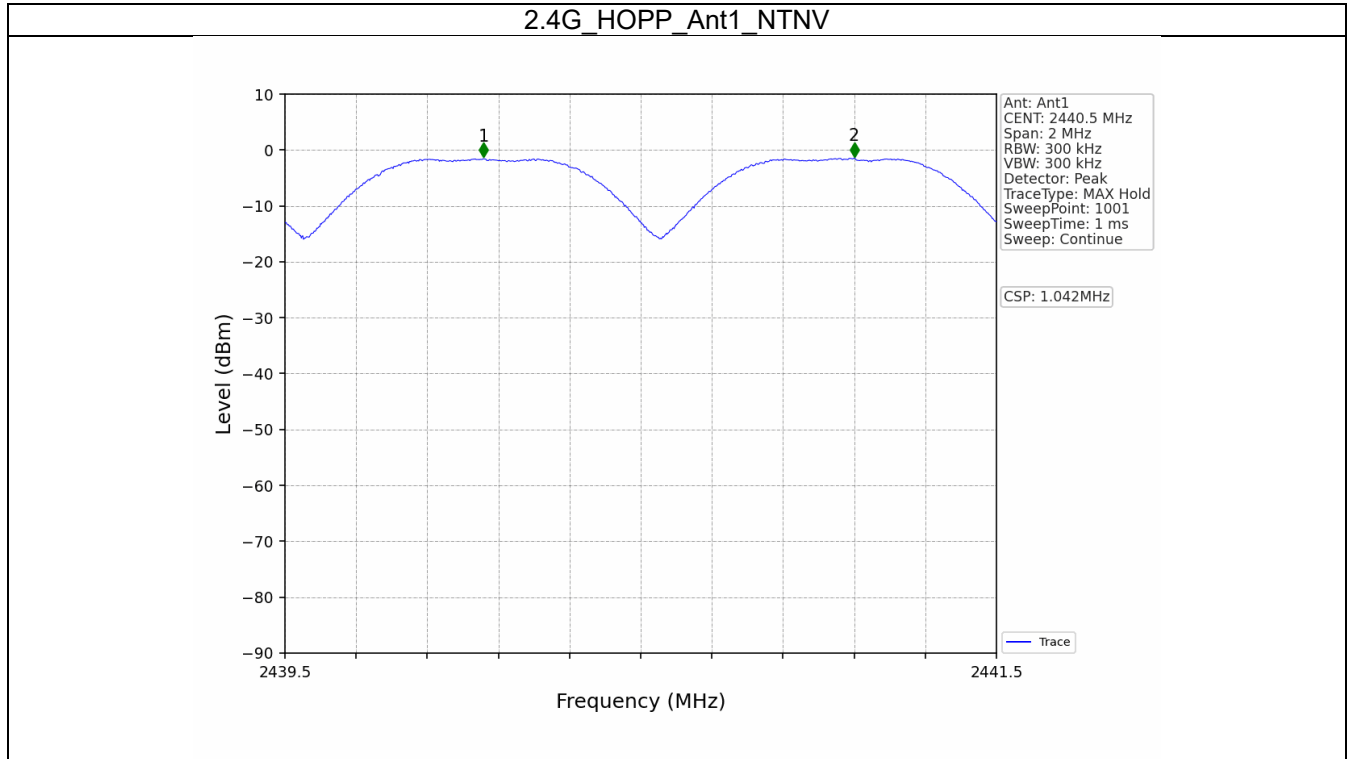
3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

Ant1						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
2.4G	SISO	HOPP	1.042	0.936	≥ 0.936	Pass

3.1.2 Test Graph



4. Number of Hopping Frequencies

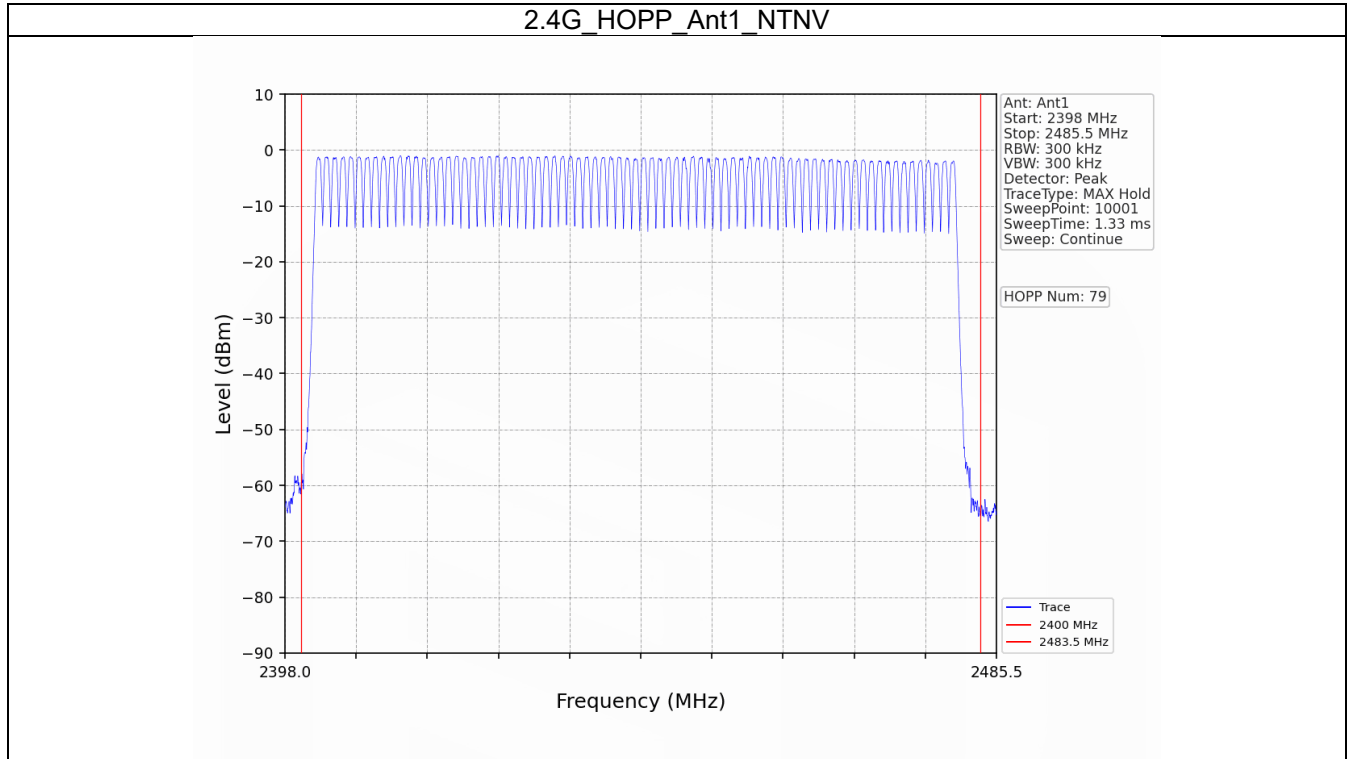
4.1 HoppNum

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			ANT1	Limit	
2.4G	SISO	HOPP	79	>=15	Pass



4.1.2 Test Graph



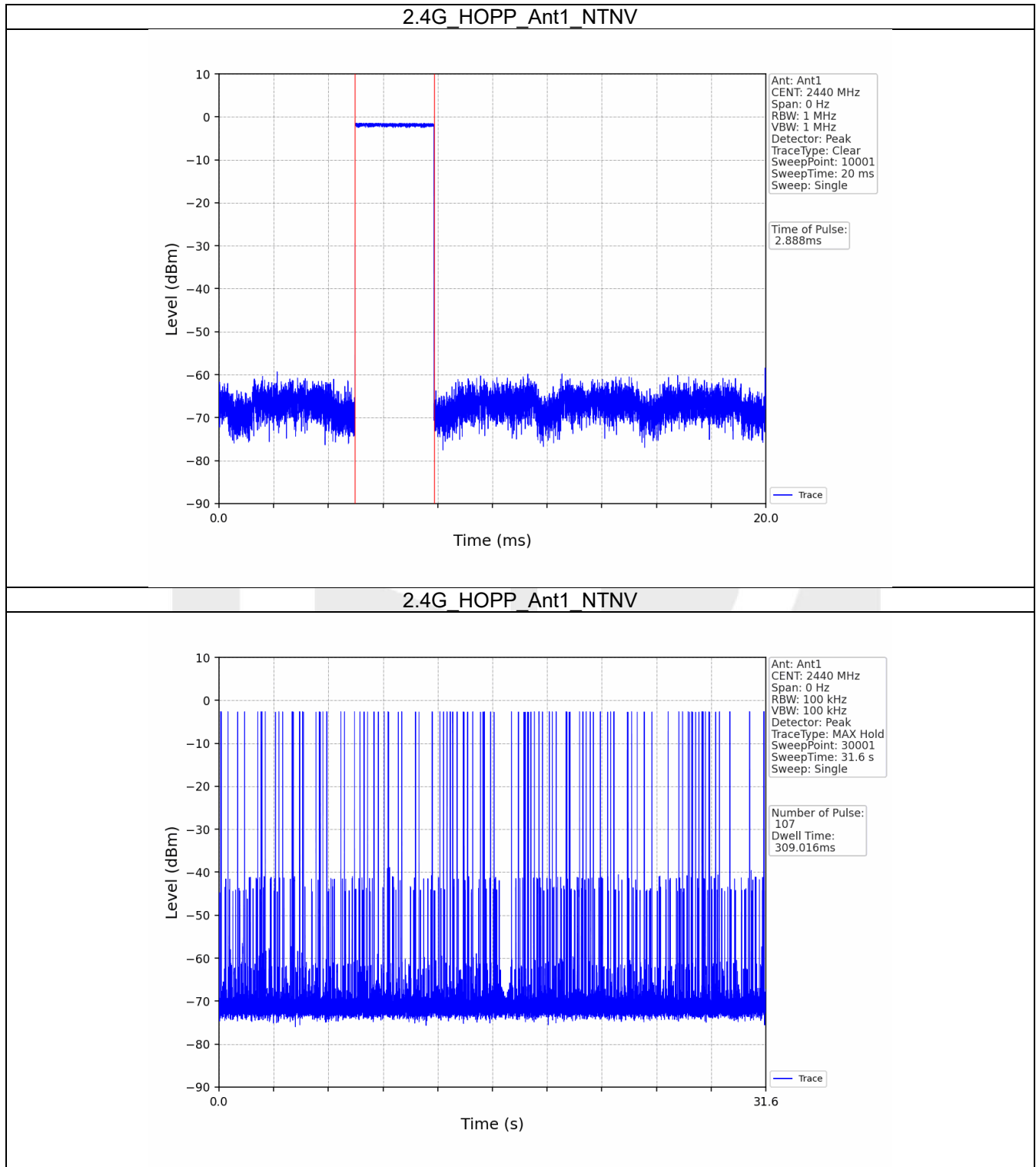
5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

Ant1								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
2.4G	SISO	HOPP	2.888	31.600	107	309.016	<=400	Pass

5.1.2 Test Graph



6. Unwanted Emissions In Non-restricted Frequency Bands

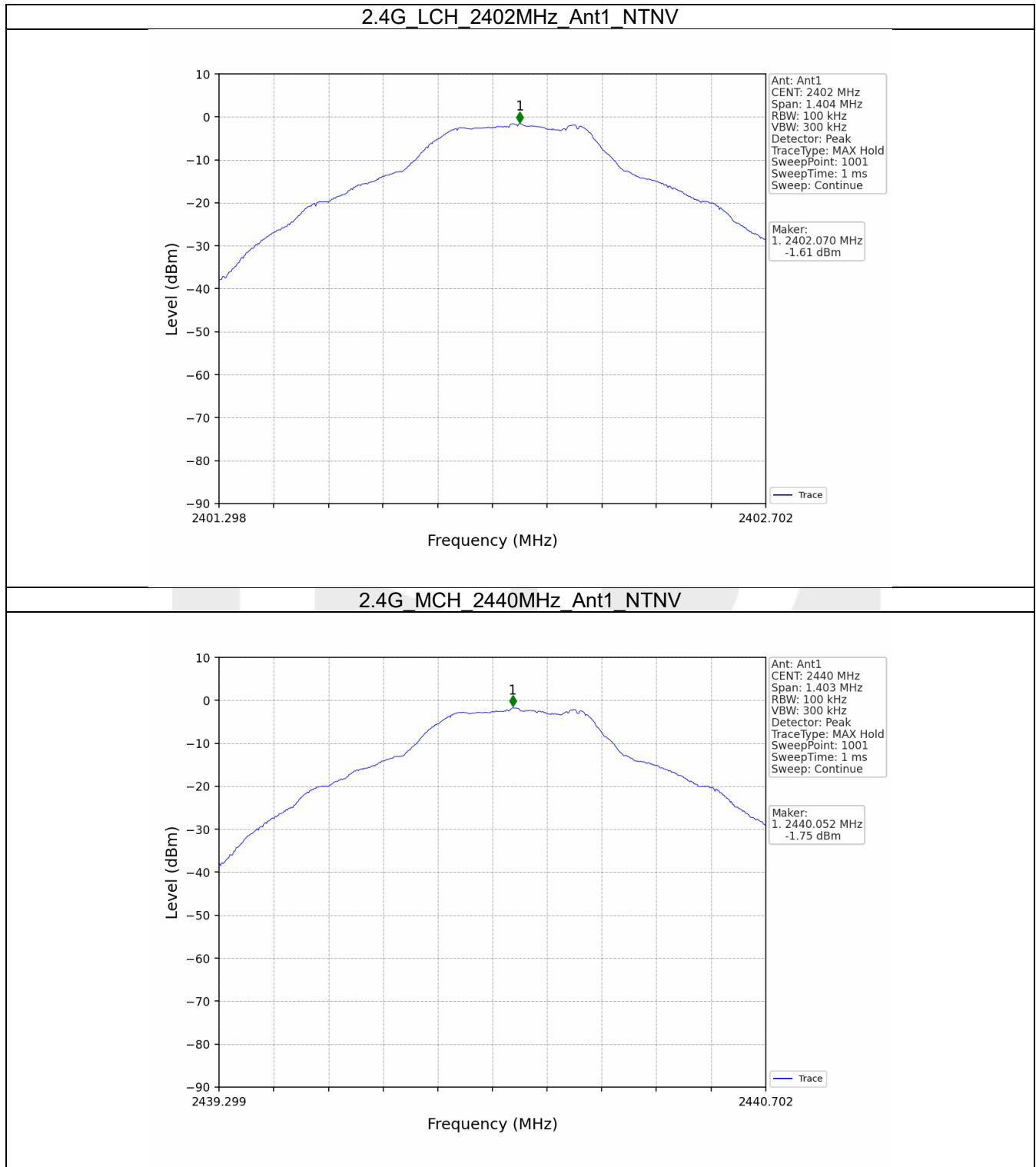
6.1 Ref

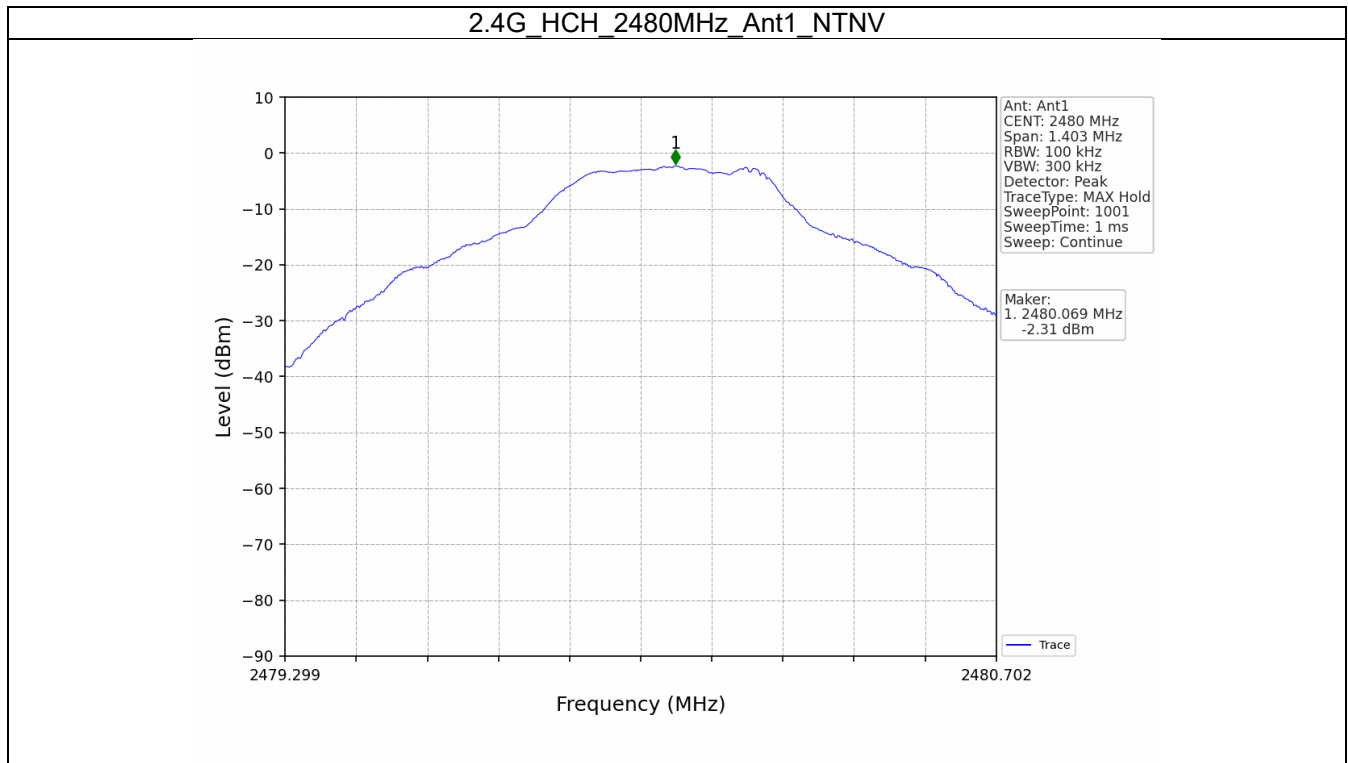
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
2.4G	SISO	2402	1	-1.61
		2440	1	-1.75
		2480	1	-2.31

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

6.1.2 Test Graph



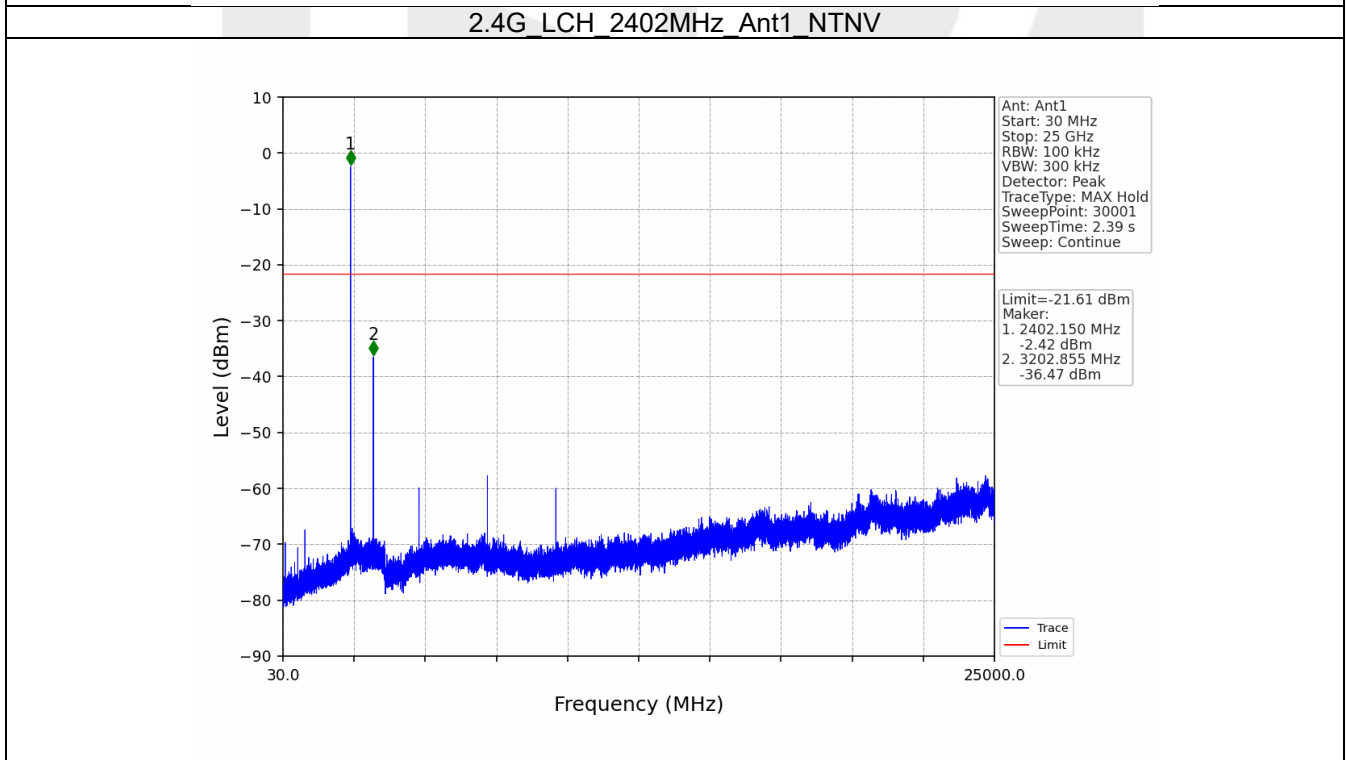
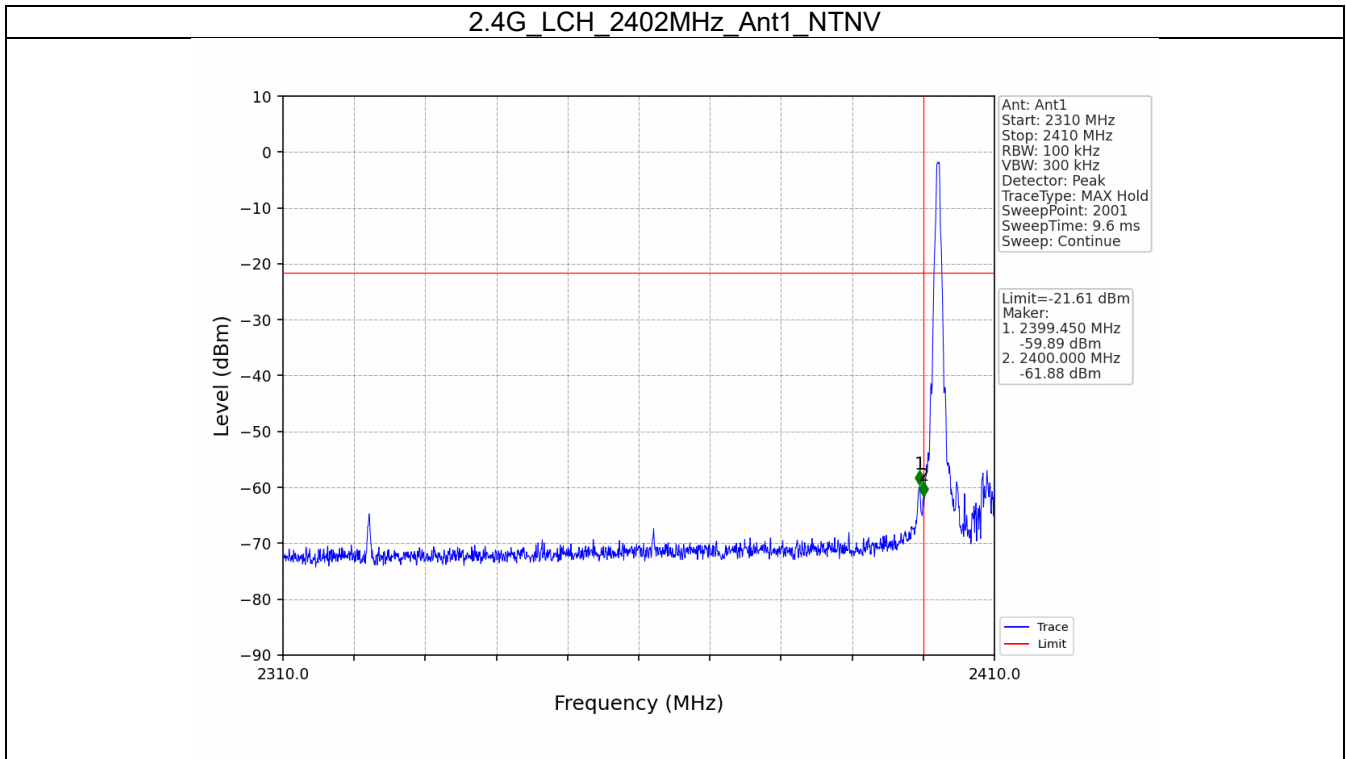


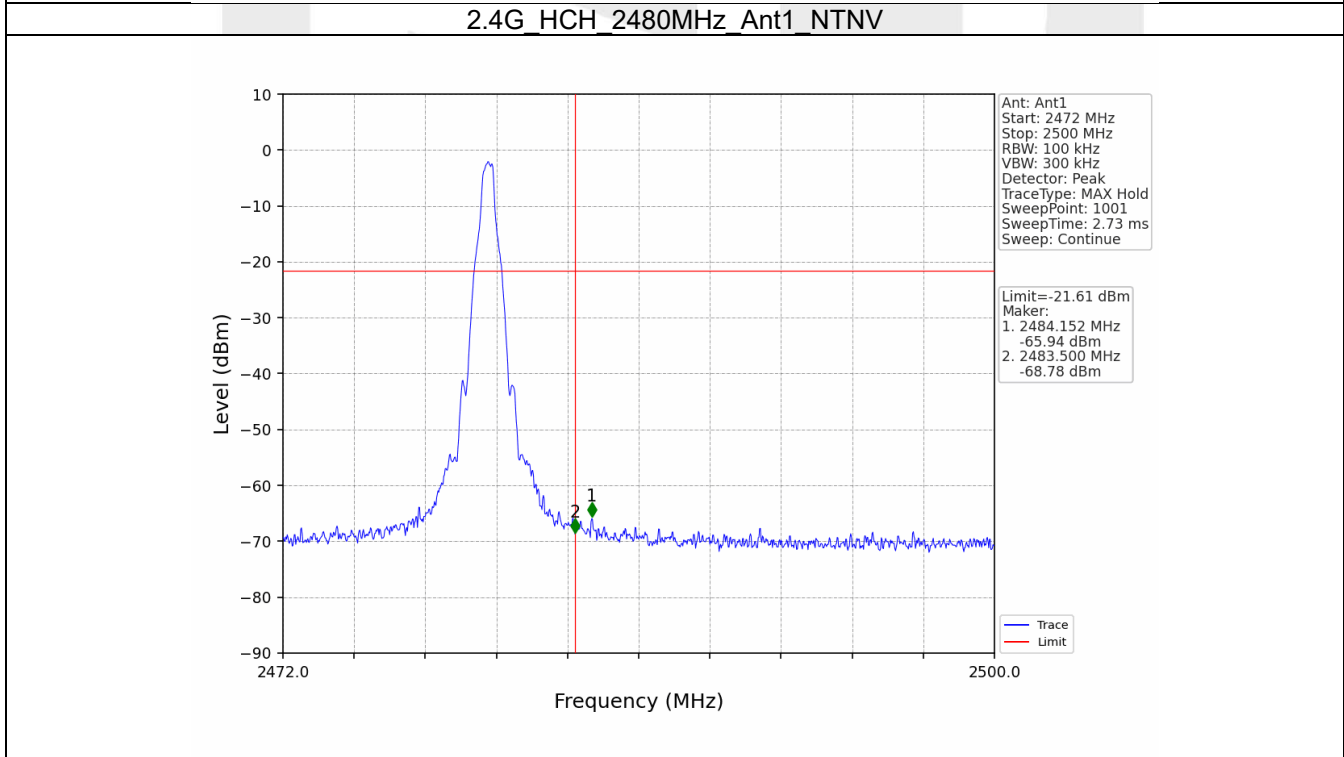
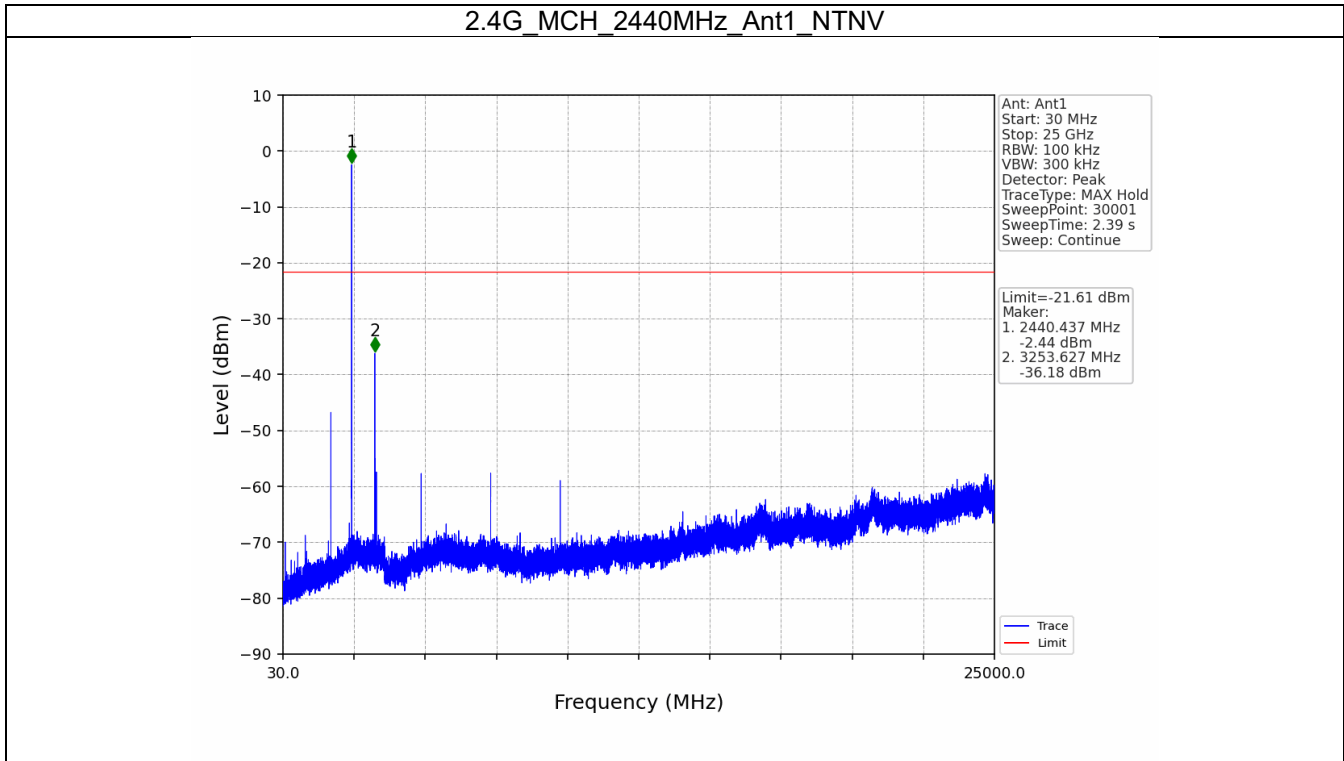
6.2 CSE
6.2.1 Test Result

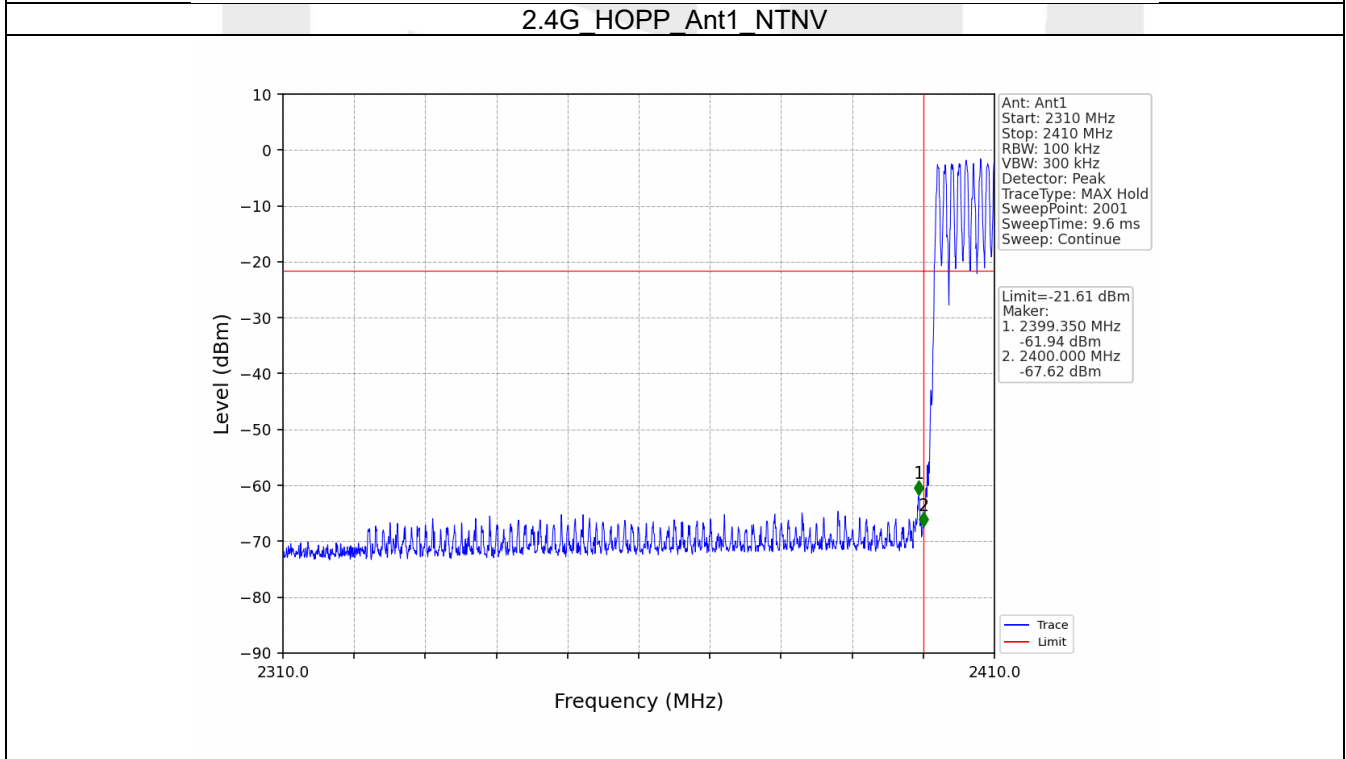
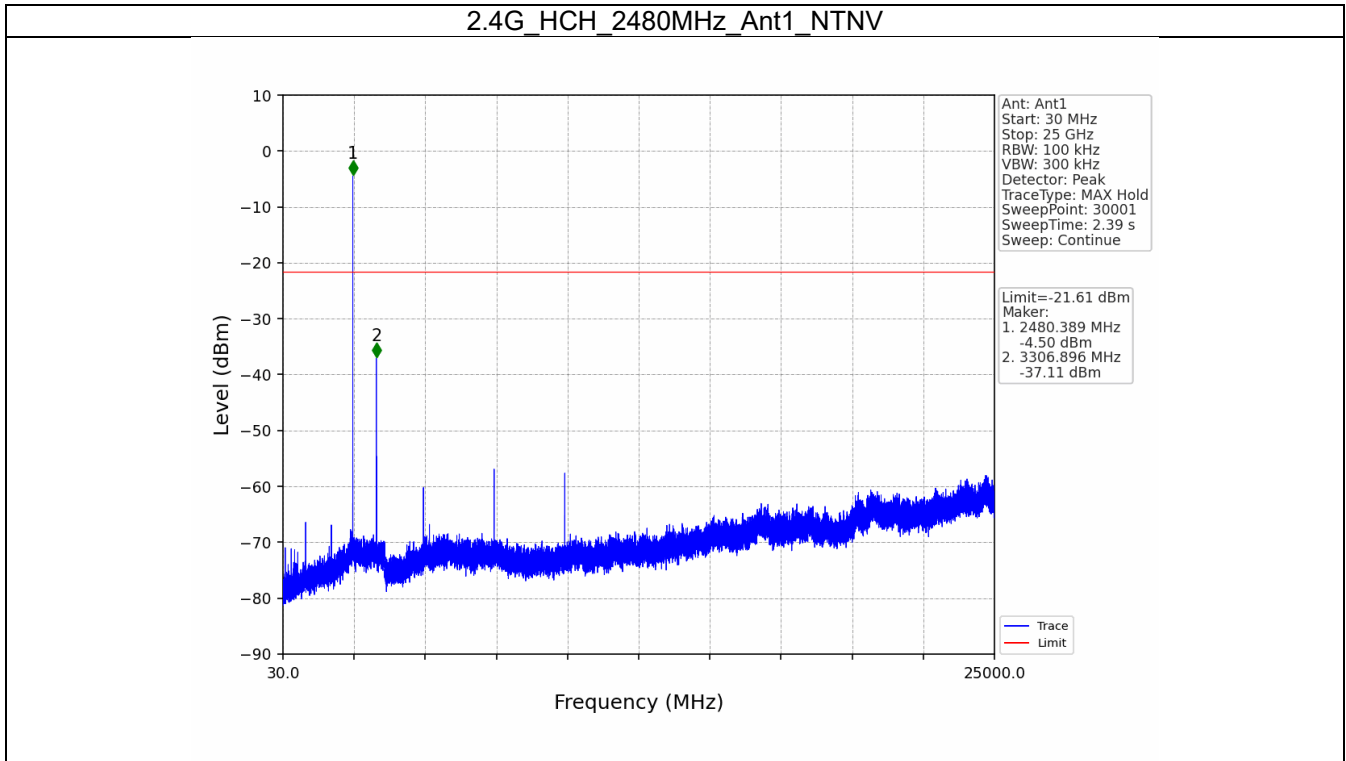
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
2.4G	SISO	2402	1	-1.61	-21.61	Pass
		2440	1	-1.61	-21.61	Pass
		2480	1	-1.61	-21.61	Pass
		HOPP	1	-1.61	-21.61	Pass
				-1.61	-21.61	Pass

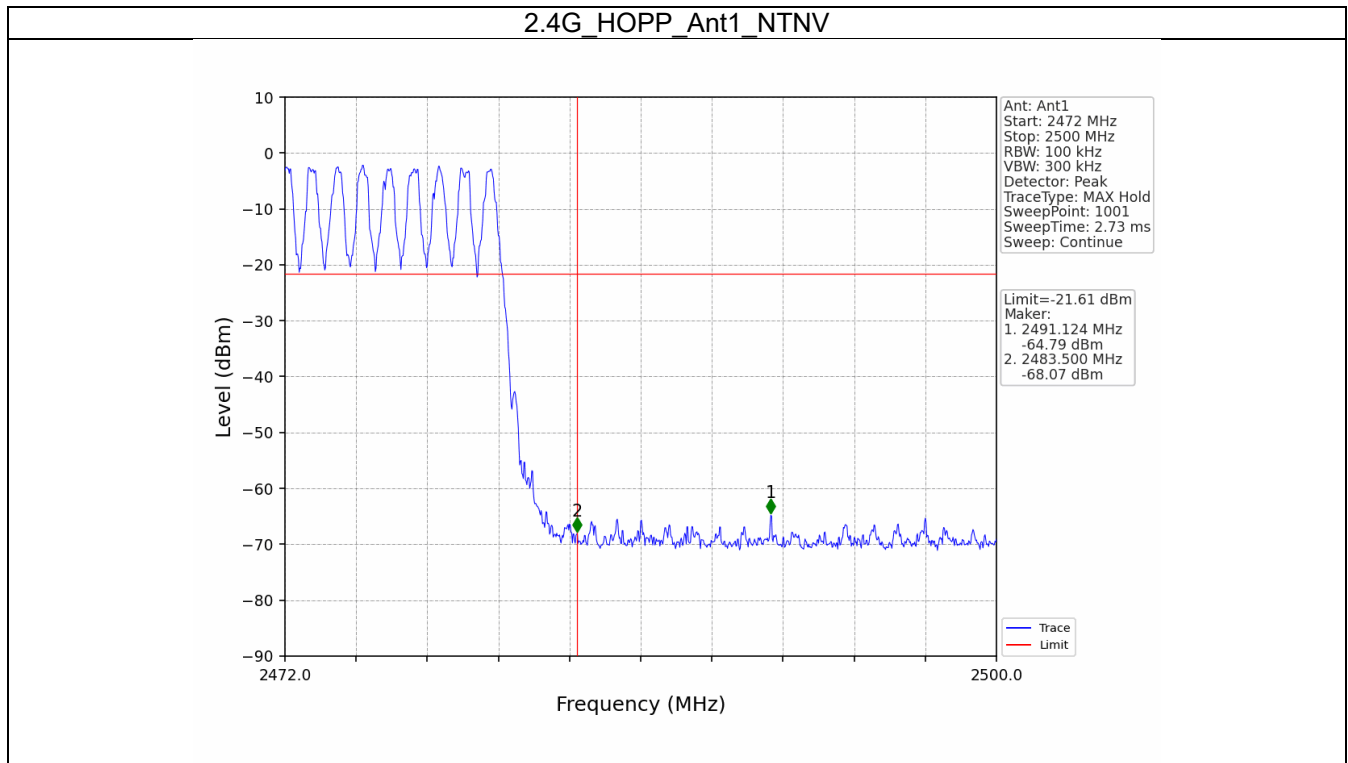
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

6.2.2 Test Graph









----- End of Report -----