

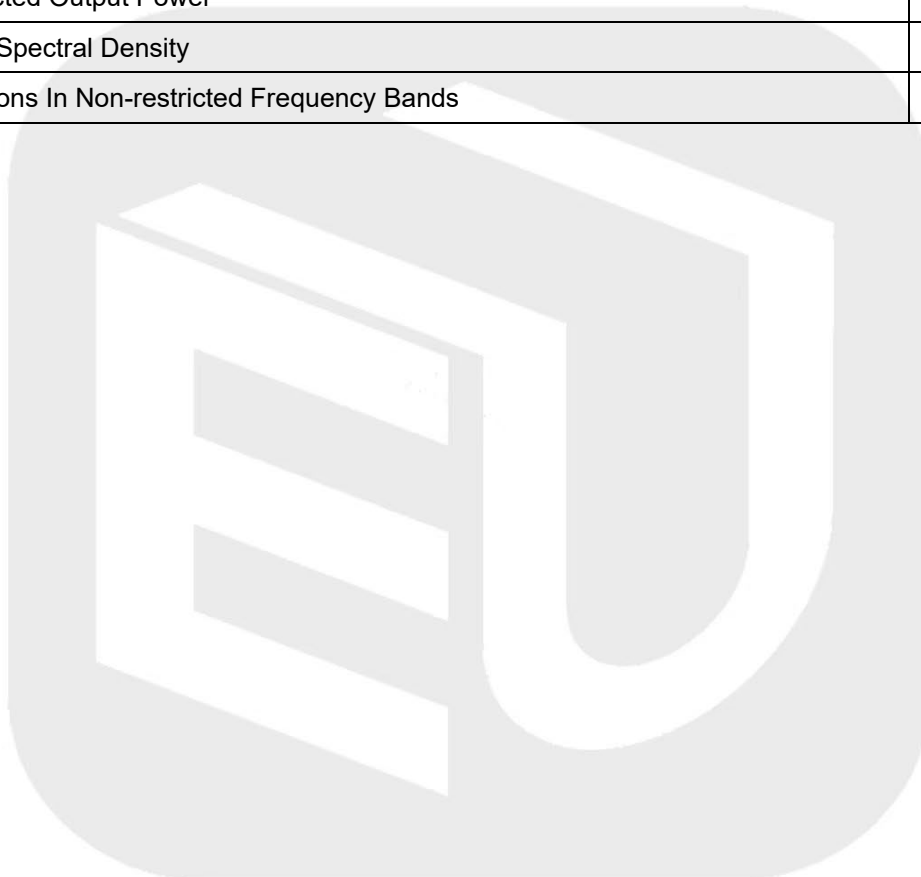
ANNEX D TEST DATA

For

Project No.:	8135EU011104W
Client:	Guangzhou Boju Information Technology Co.,Ltd
Product Description:	Negative MPPT Solar Charge Controller
Model No.:	BJ48100F
FCC ID:	2BBH5-BJ4880F
Technology:	Bluetooth BLE
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-03-11

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass



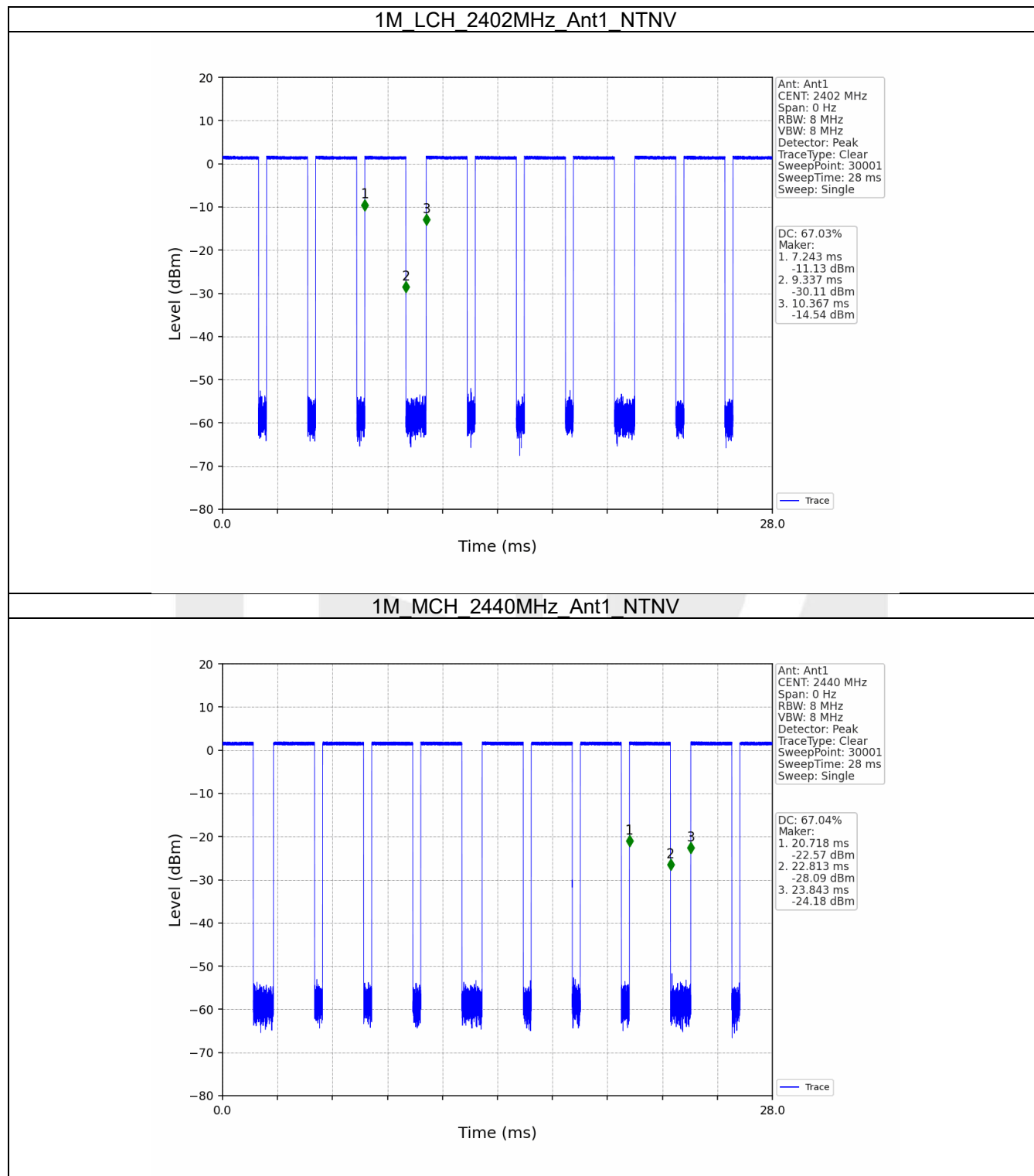
1. Duty Cycle

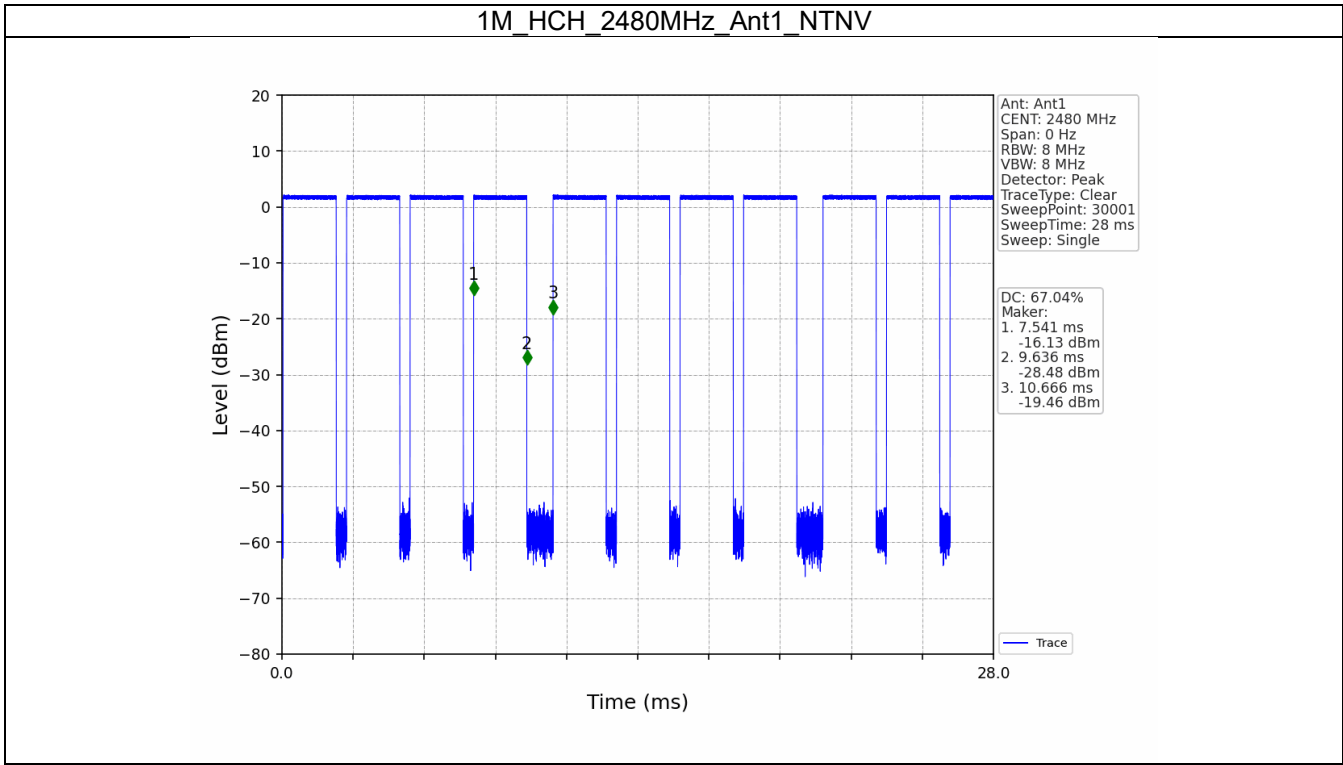
1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	2.094	3.124	67.03	1.74	16.78
		2440	2.095	3.125	67.04	1.74	16.78
		2480	2.095	3.125	67.04	1.74	16.78

1.1.2 Test Graph





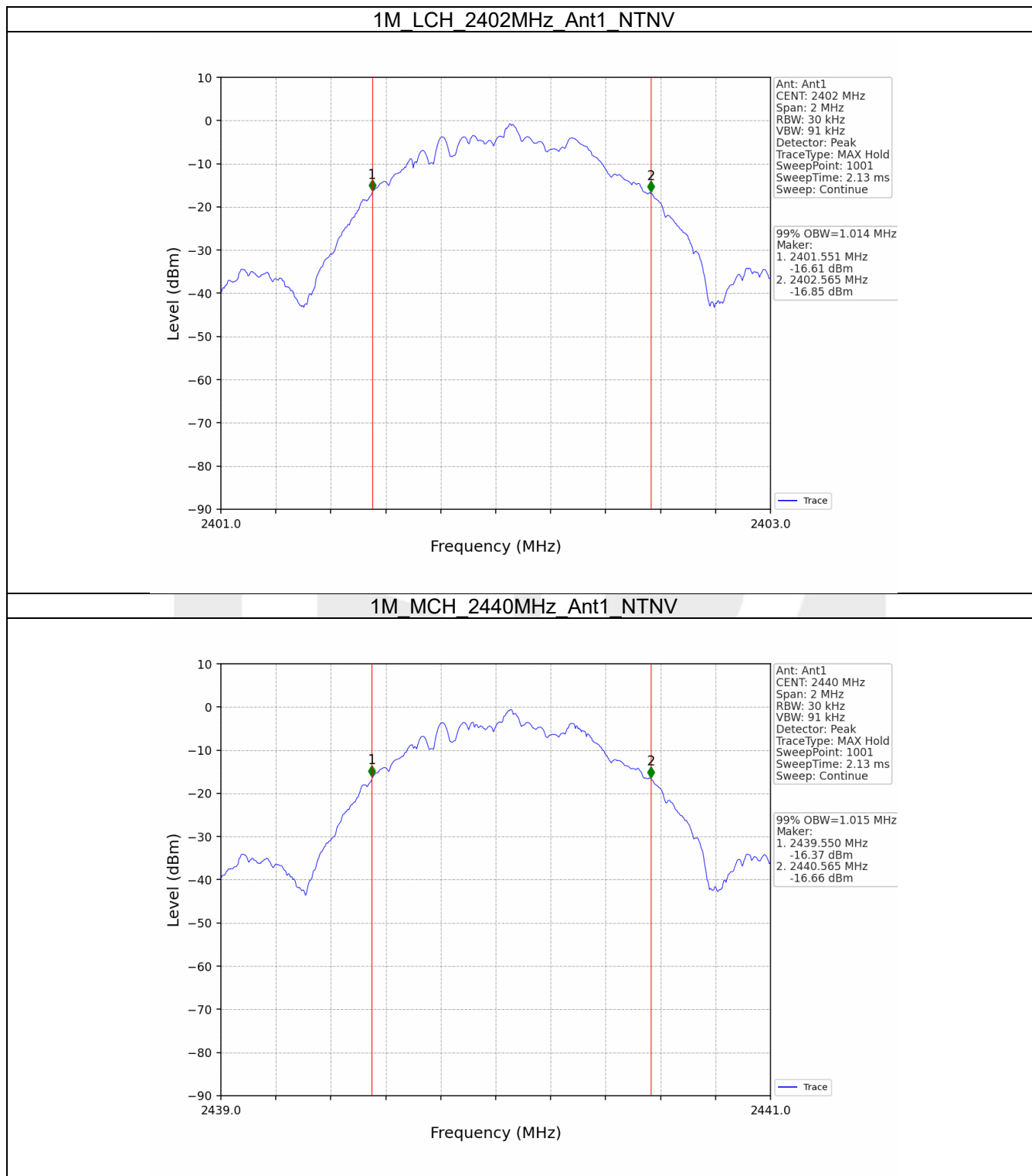
2. Bandwidth

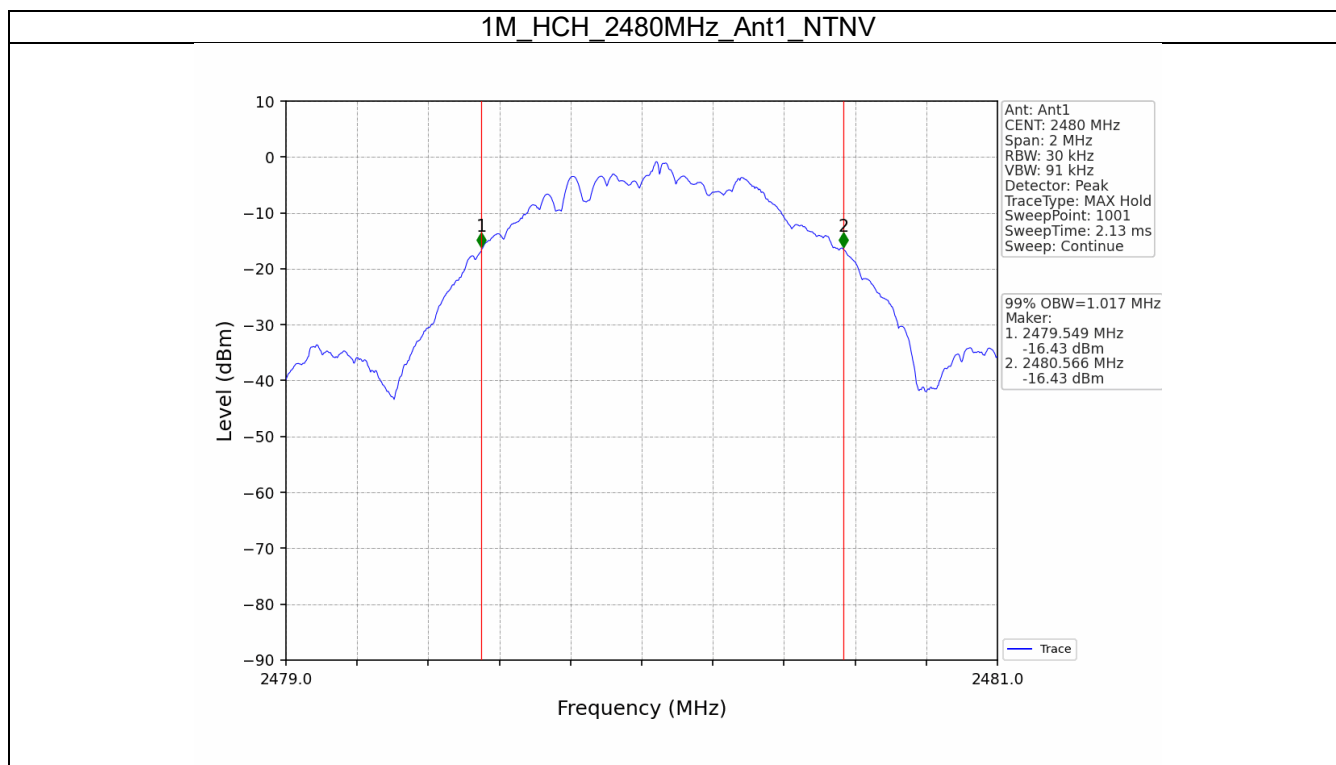
2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.014	Pass
		2440	1	1.015	Pass
		2480	1	1.017	Pass

2.1.2 Test Graph





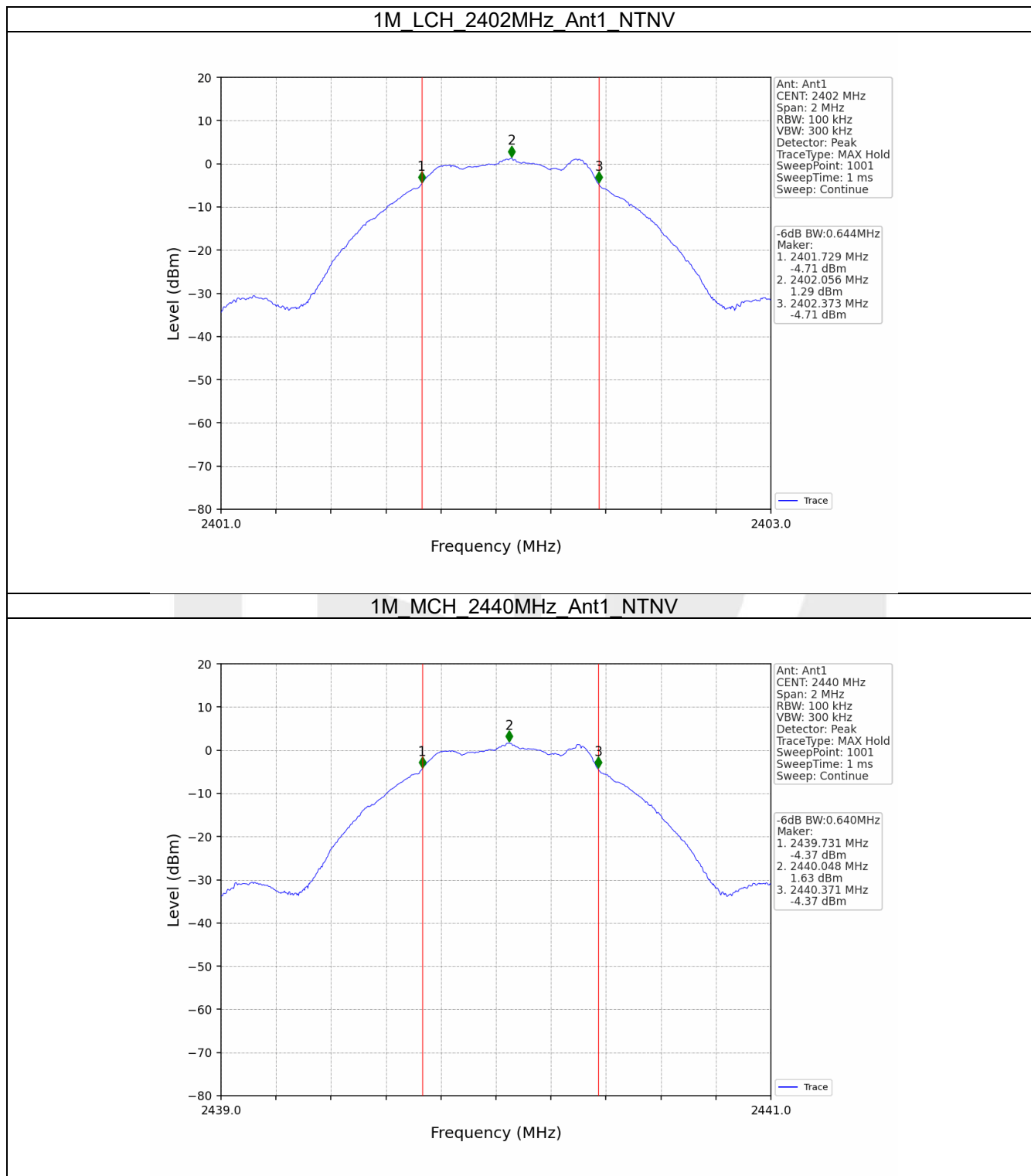
2.2 6dB BW

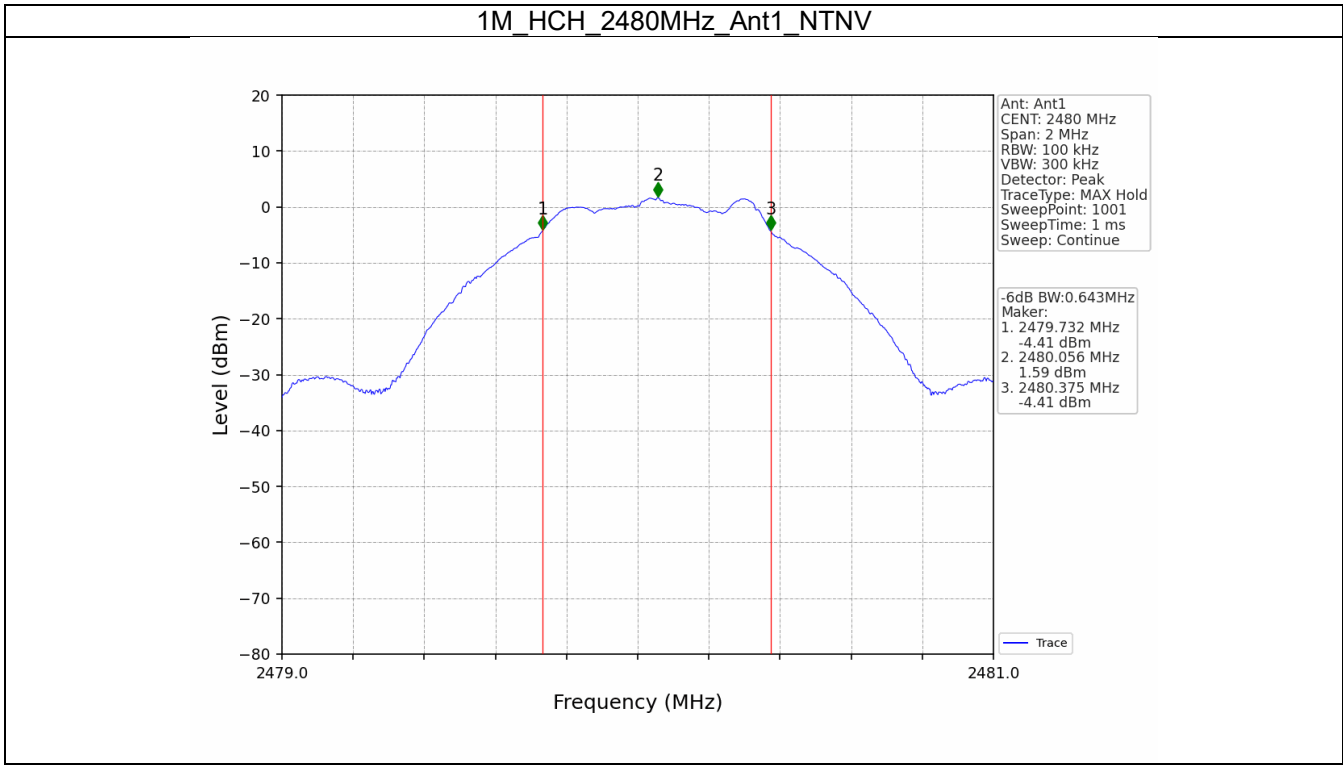
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.644	≥ 0.5	Pass
		2440	1	0.640	≥ 0.5	Pass
		2480	1	0.643	≥ 0.5	Pass



2.2.2 Test Graph





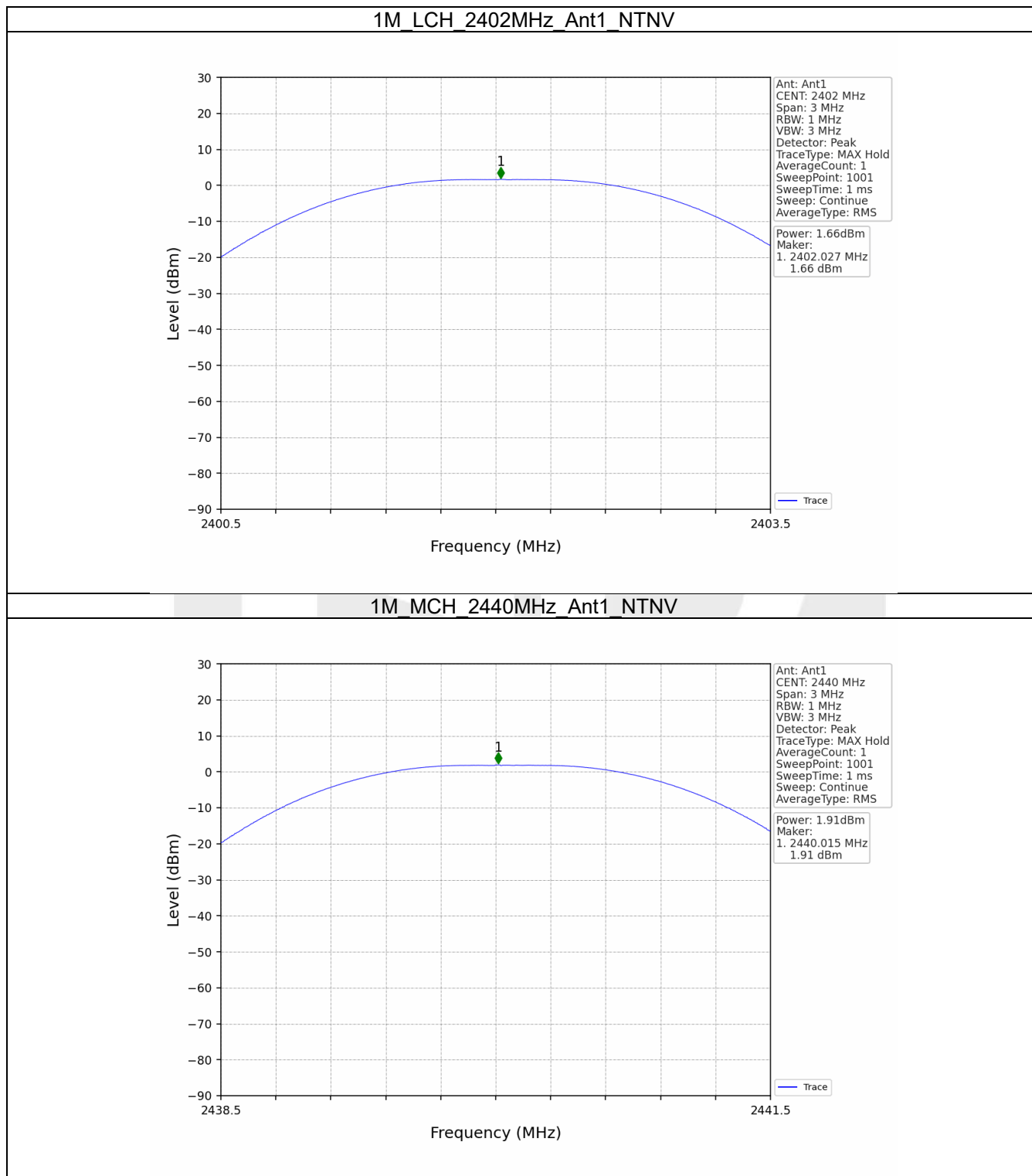
3. Maximum Conducted Output Power

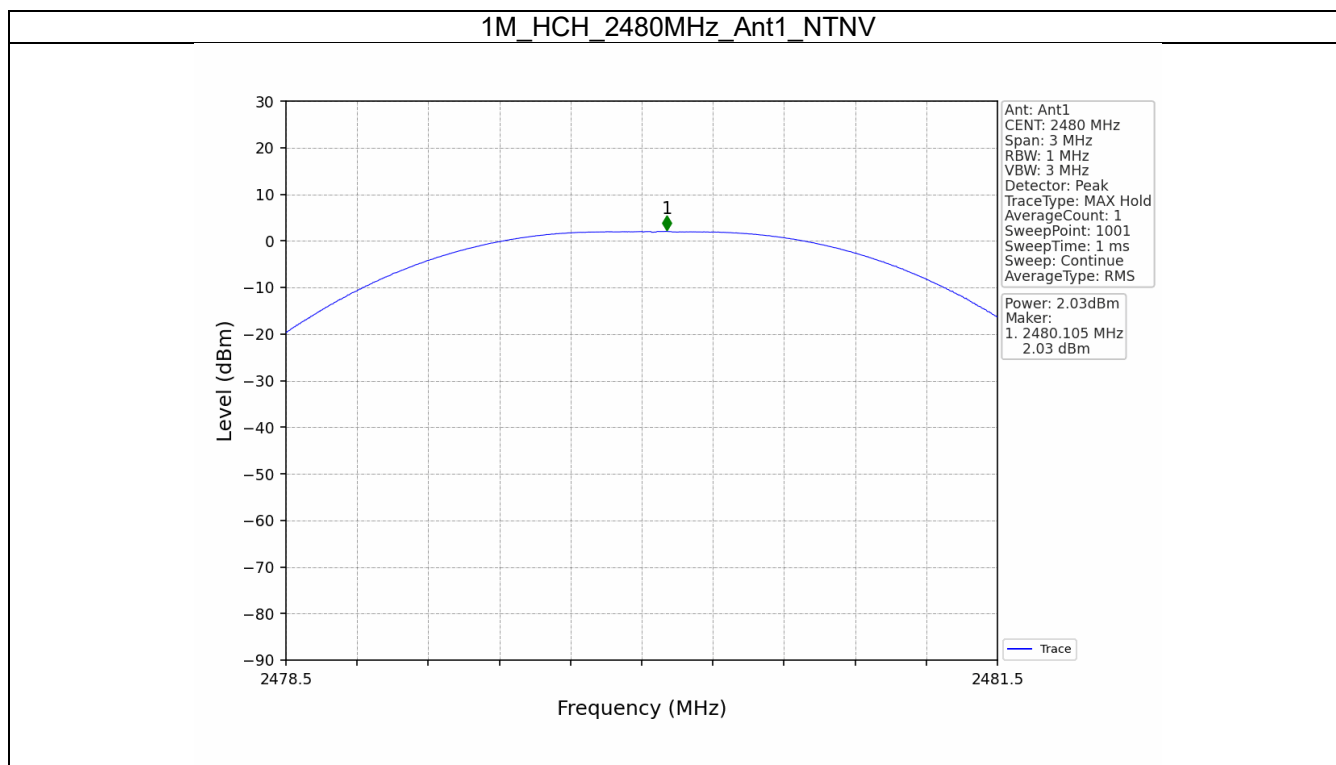
3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.66	<=30	Pass
		2440	1.91	<=30	Pass
		2480	2.03	<=30	Pass

3.1.2 Test Graph





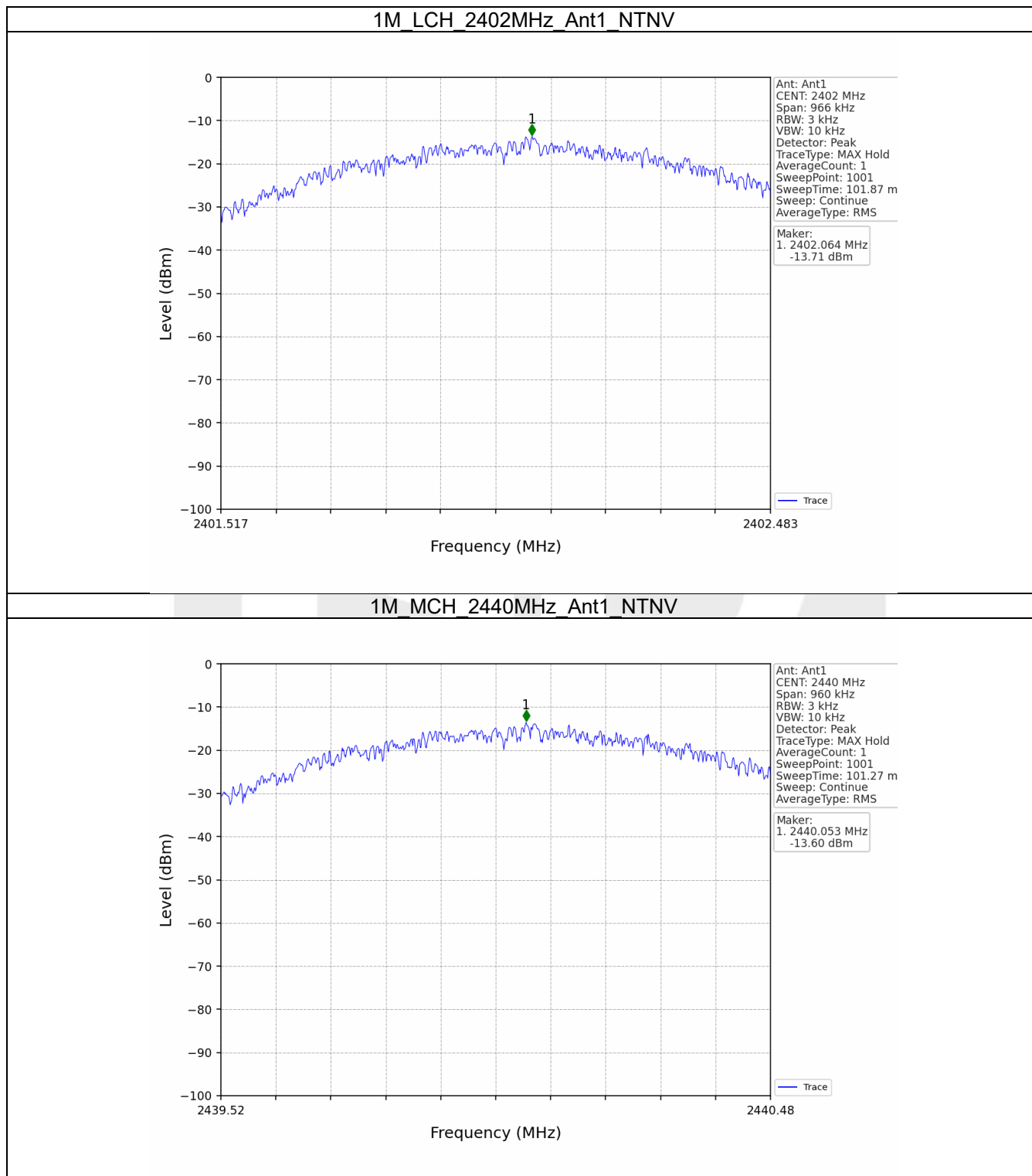
4. Maximum Power Spectral Density

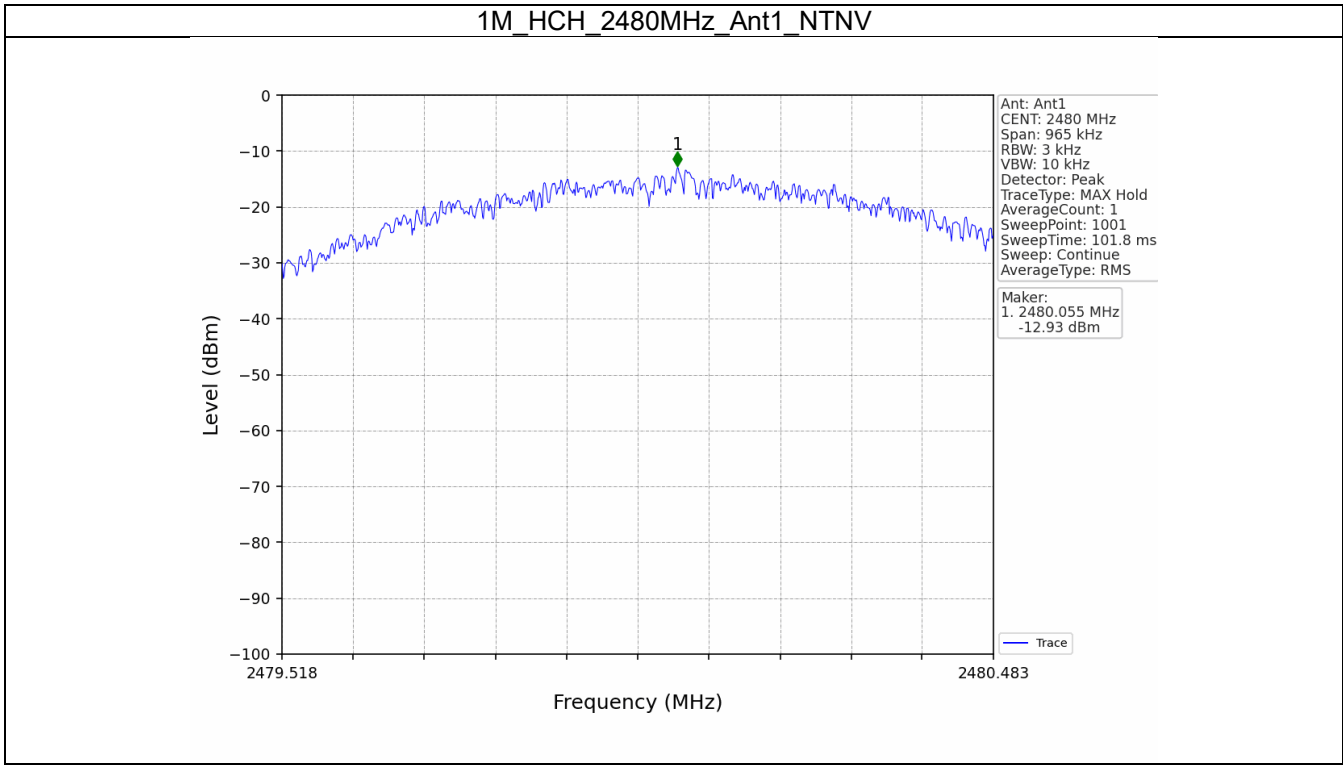
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-13.71	<=8	Pass
		2440	-13.60	<=8	Pass
		2480	-12.93	<=8	Pass

4.1.2 Test Graph





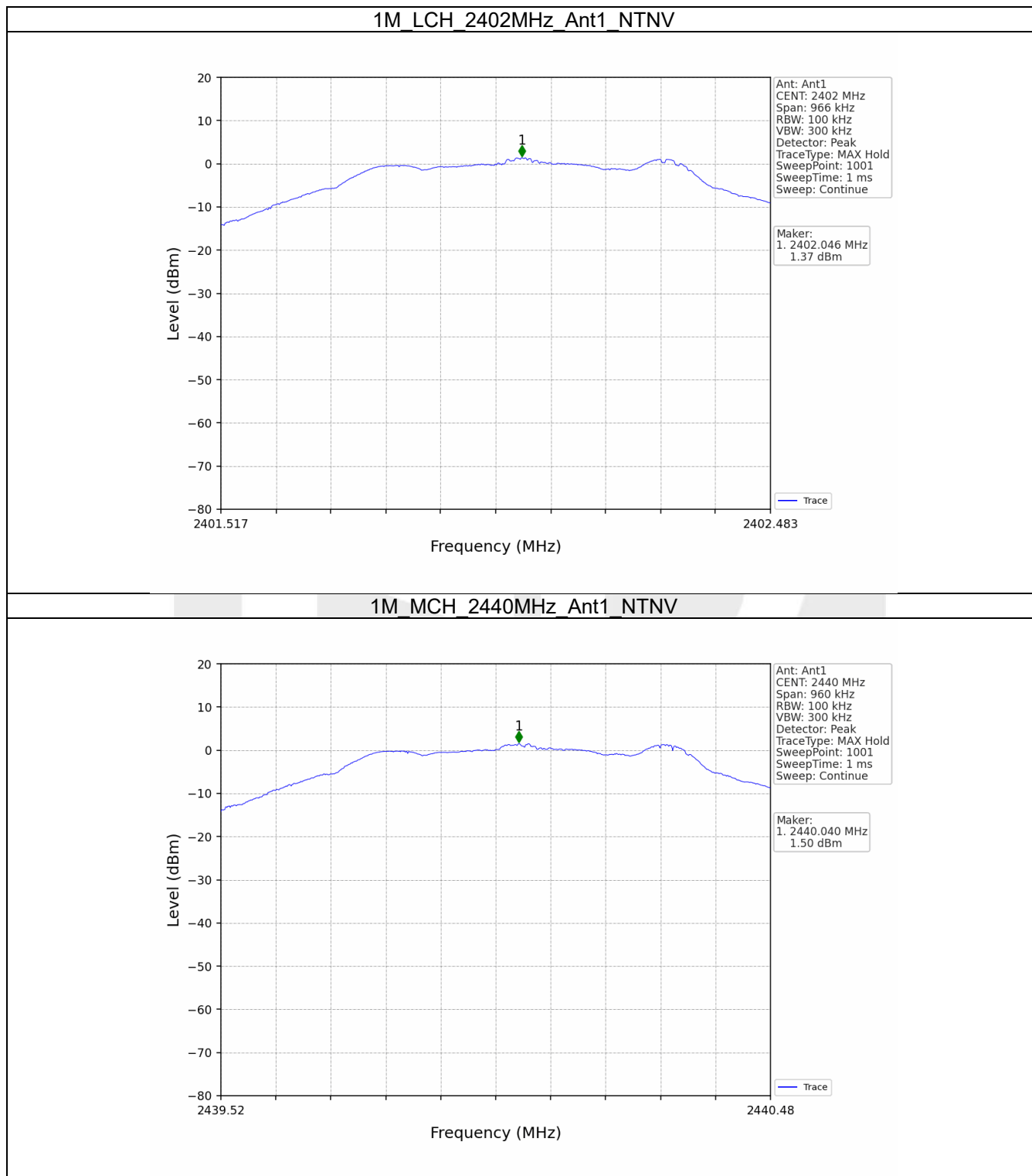
5. Unwanted Emissions In Non-restricted Frequency Bands

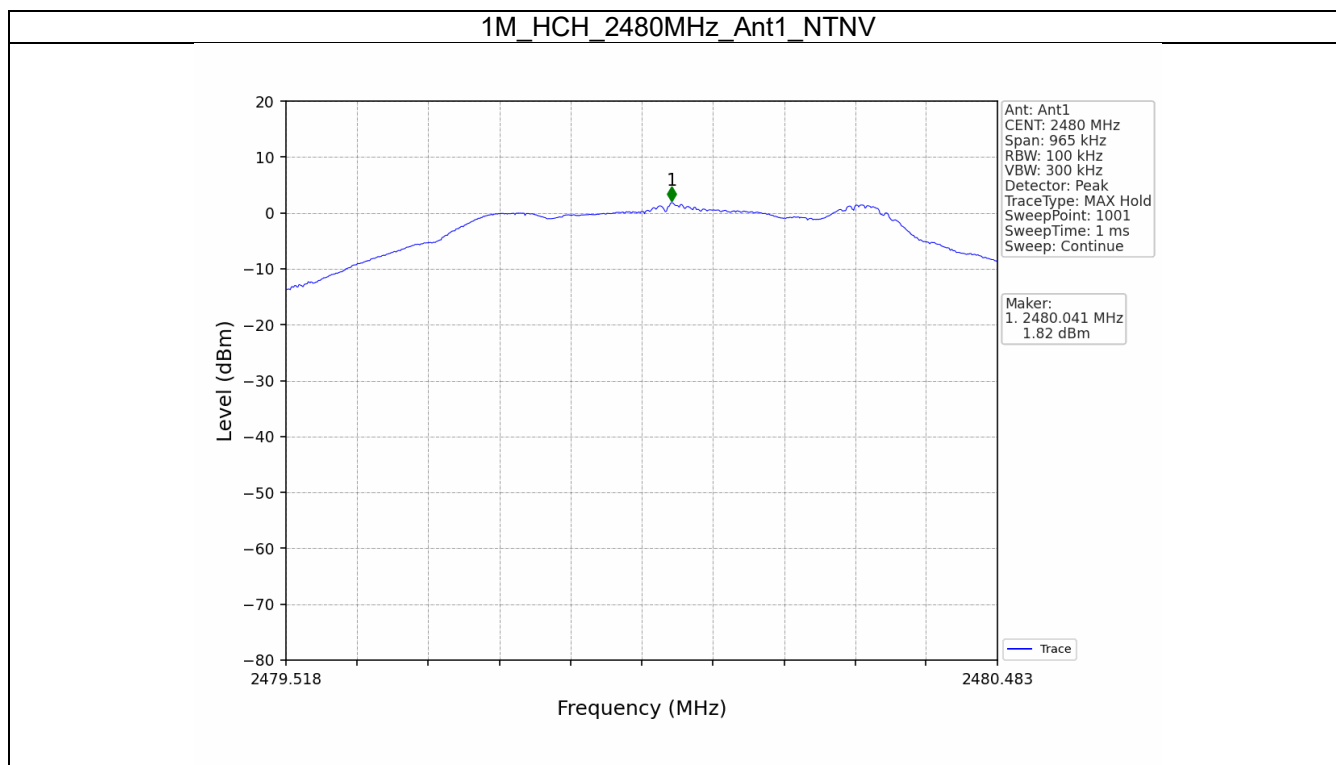
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	1.37
		2440	1	1.50
		2480	1	1.82
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.				

5.1.2 Test Graph



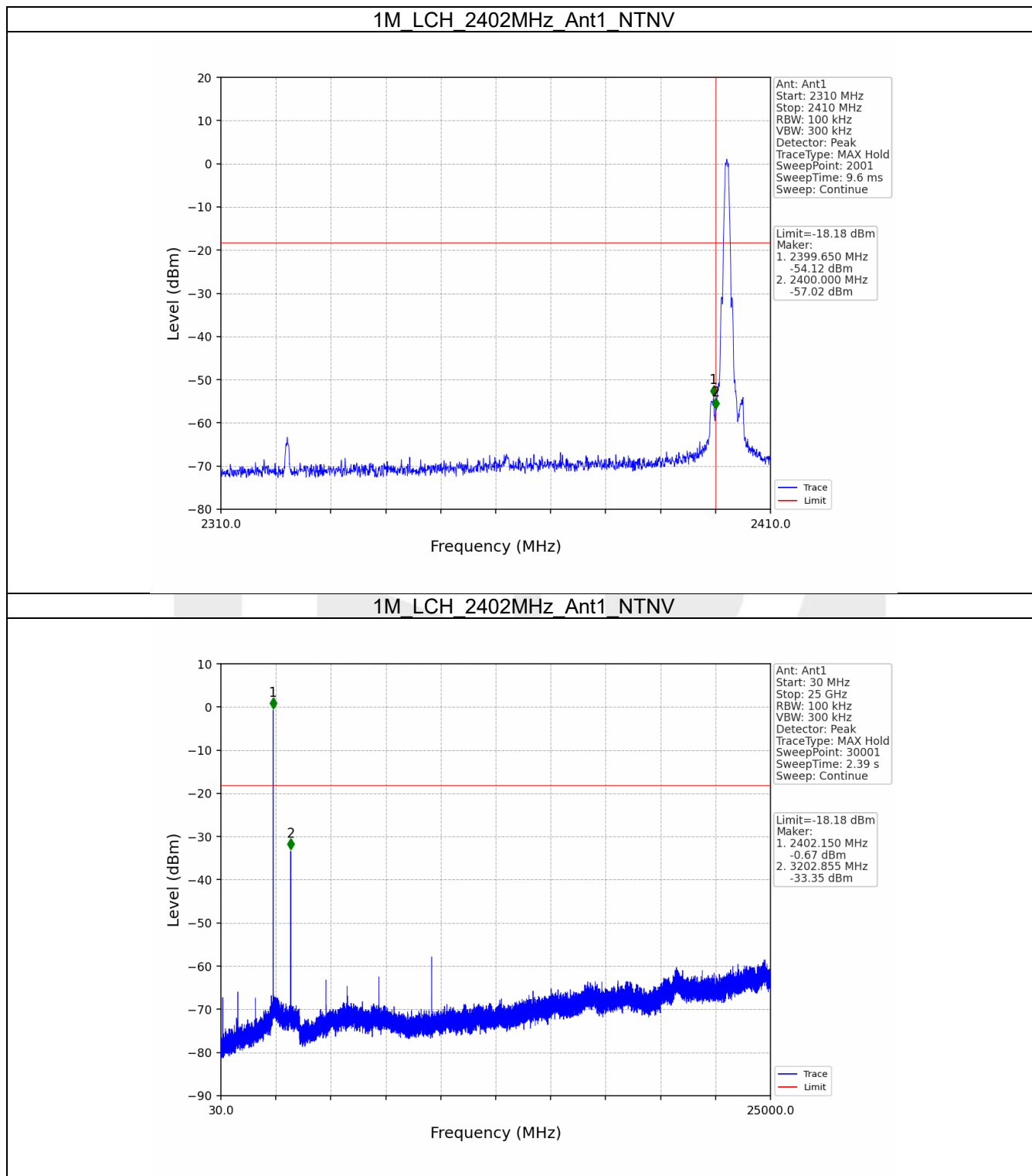


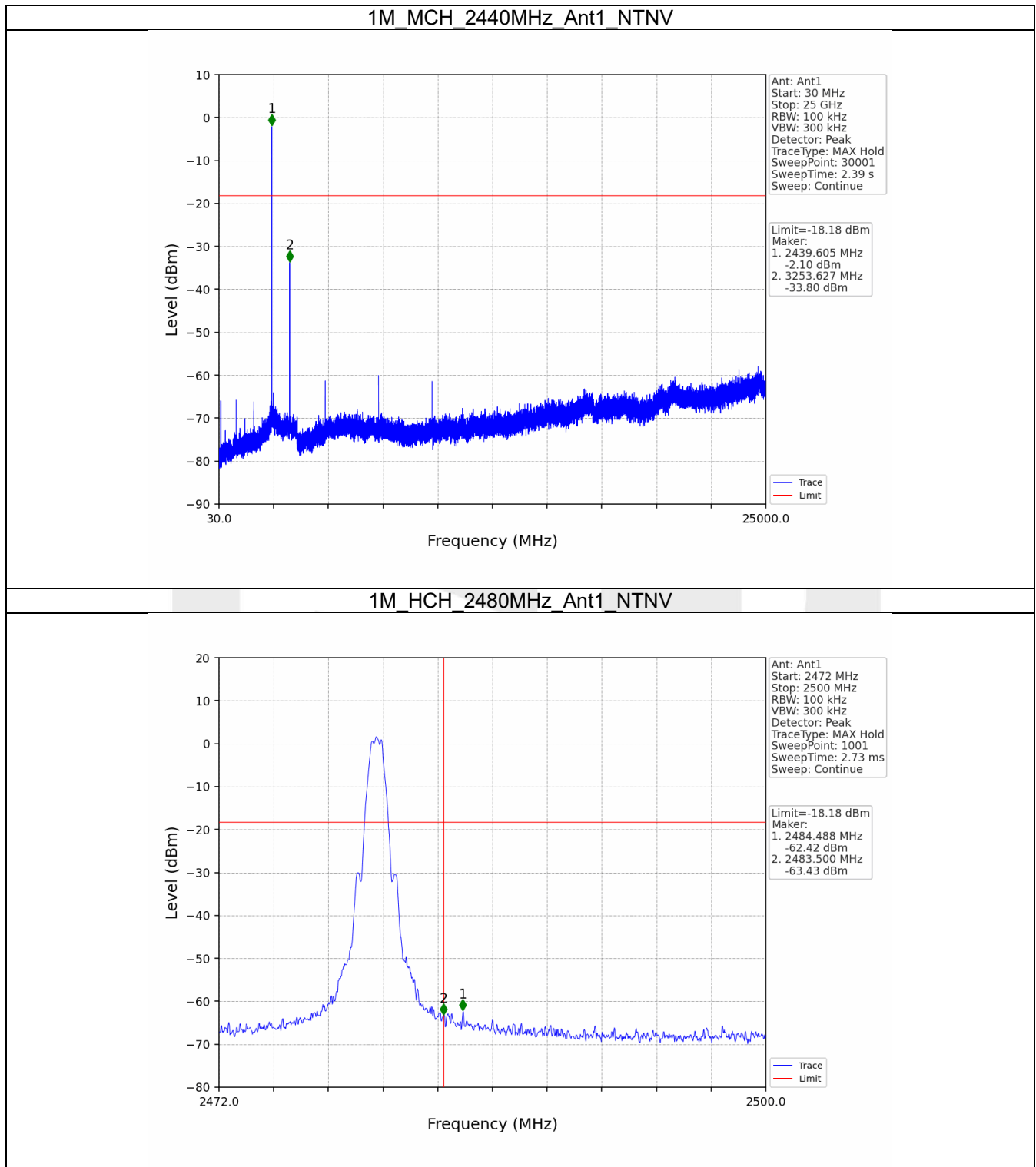
5.2 CSE

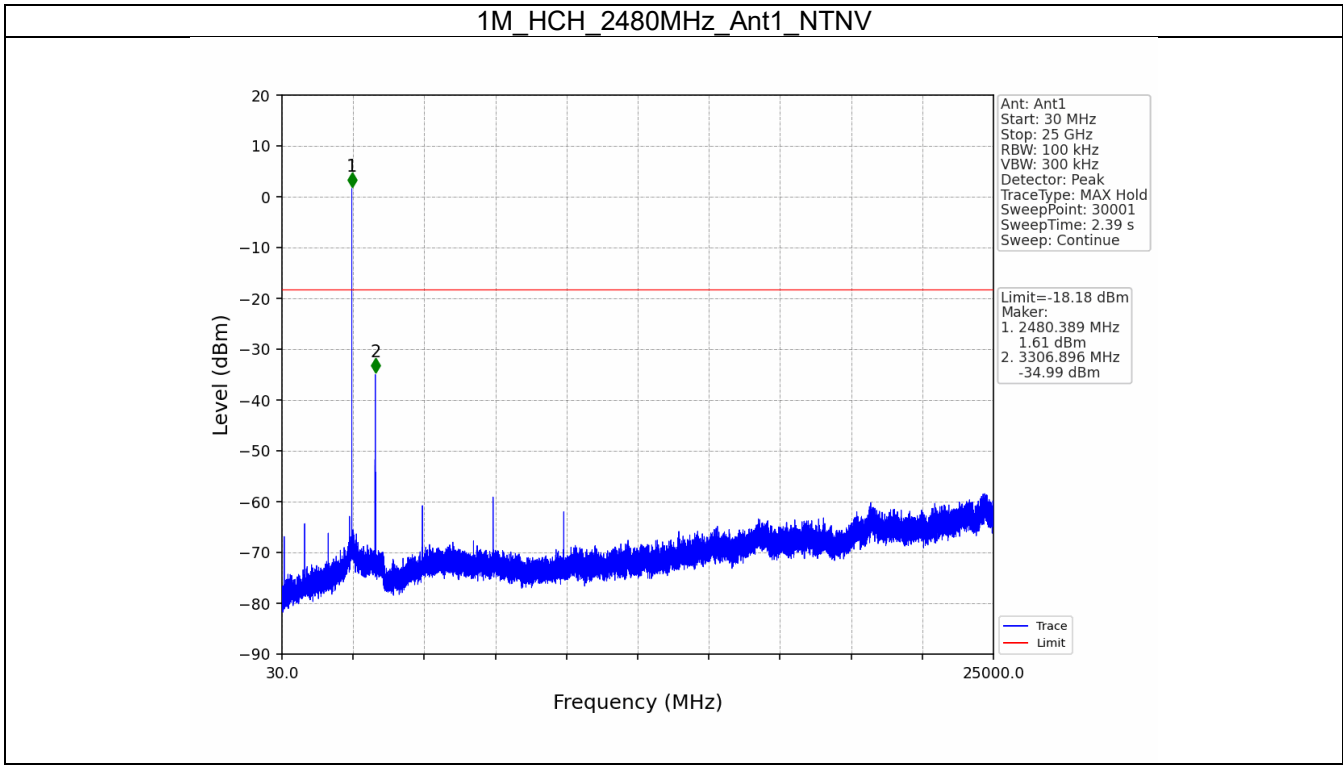
5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	1.82	-18.18	Pass
		2440	1	1.82	-18.18	Pass
		2480	1	1.82	-18.18	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.						

5.2.2 Test Graph







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