



RF Test Report

For BTEK260714004A01E01

Project No.:	BTEK260714004A01E0101
Product Description:	LiFePO4 Battery
Test Conditions:	20.8°C, 62%, 100.7kPa
Test Engineer:	Milo
Test Date:	2026-08-12



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 Test Result

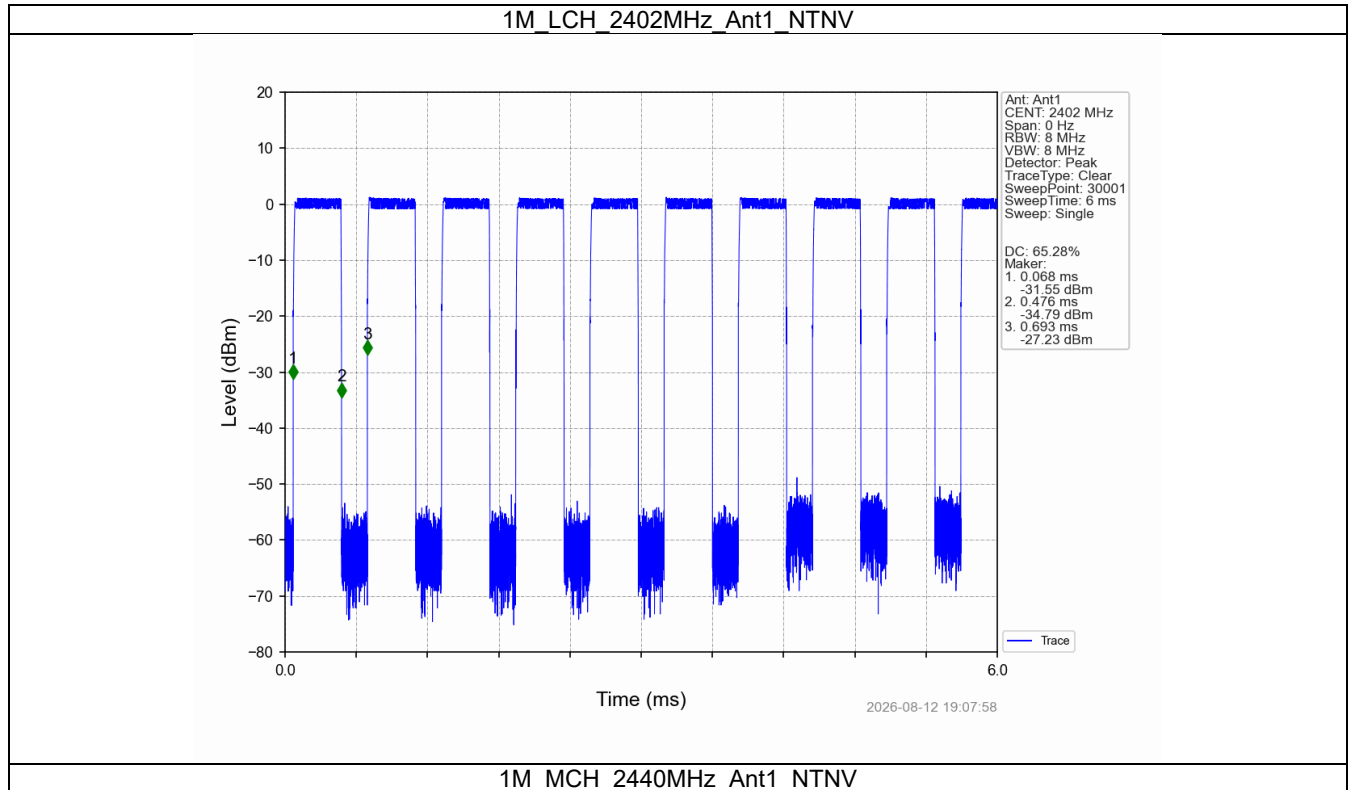
1.1.1 Ant1

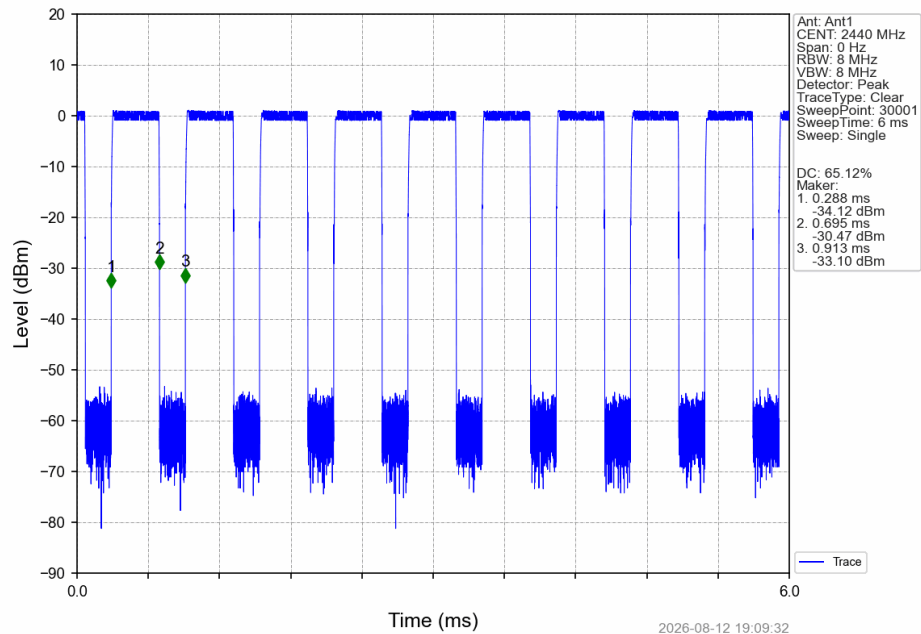
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.408	0.625	65.28	1.85	0.00
		2440	0.407	0.625	65.12	1.86	0.00
		2480	0.407	0.625	65.12	1.86	0.02



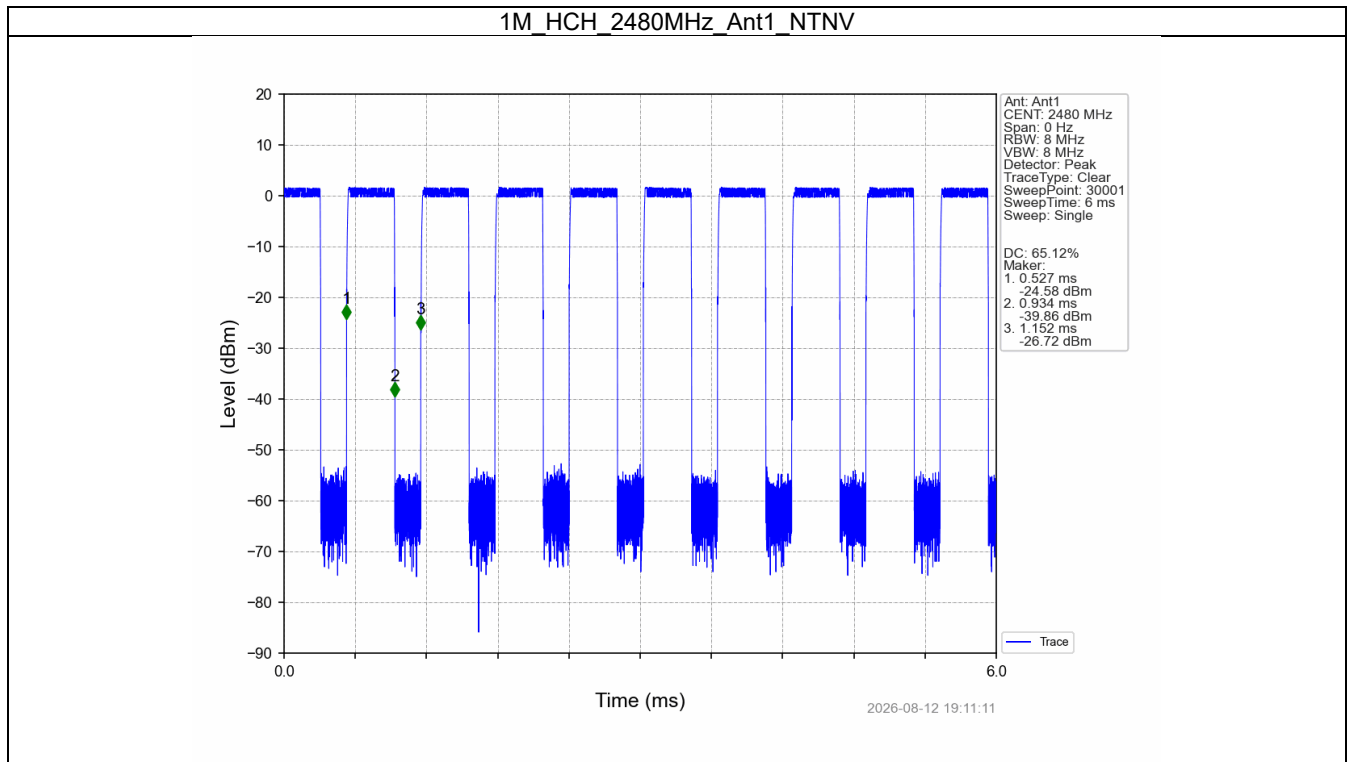
1.2 Test Graph

1.2.1 Ant1





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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.027	/	Pass
		2440	1	1.027	/	Pass
		2480	1	1.026	/	Pass

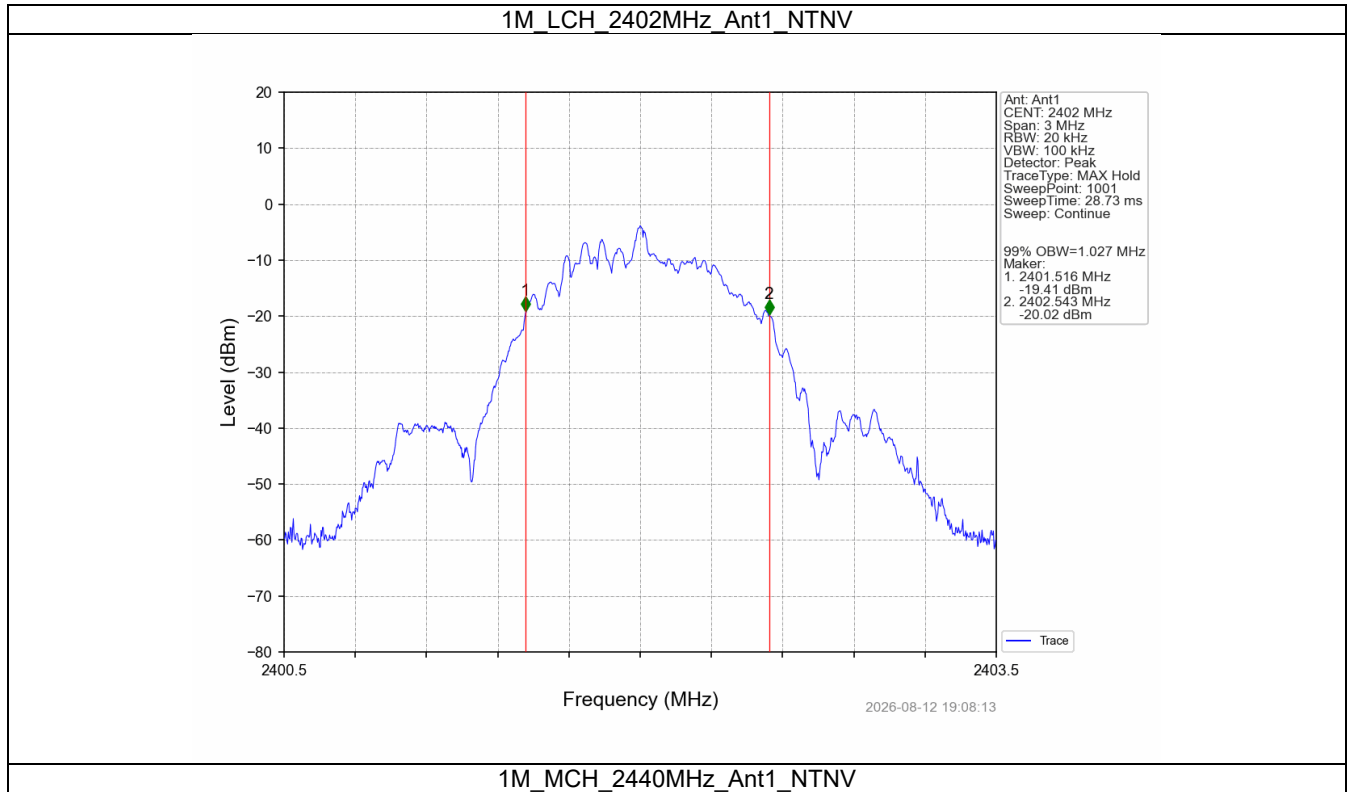
2.1.2 6dB BW

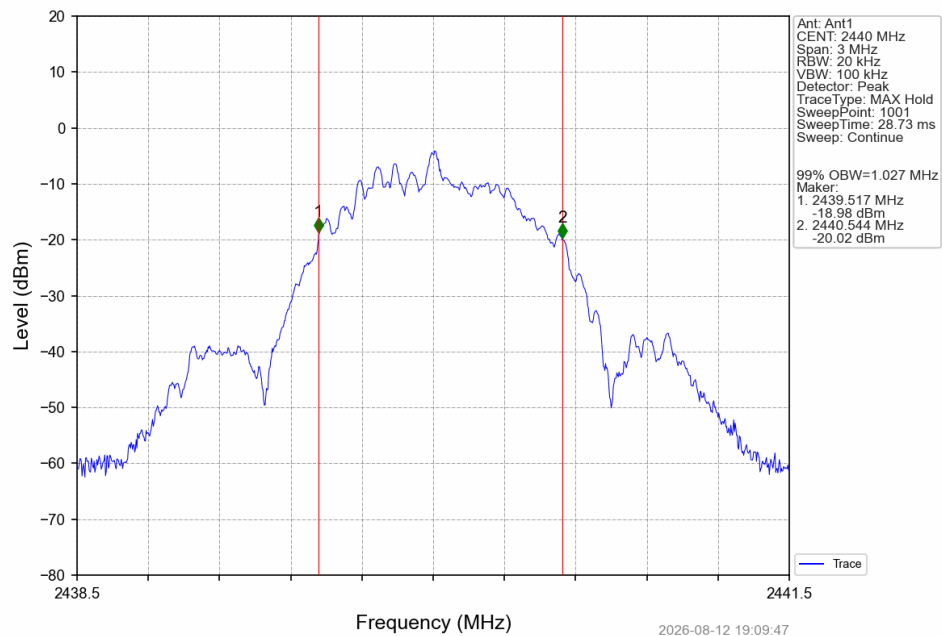
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.669	≥ 0.5	Pass
		2440	1	0.672	≥ 0.5	Pass
		2480	1	0.673	≥ 0.5	Pass

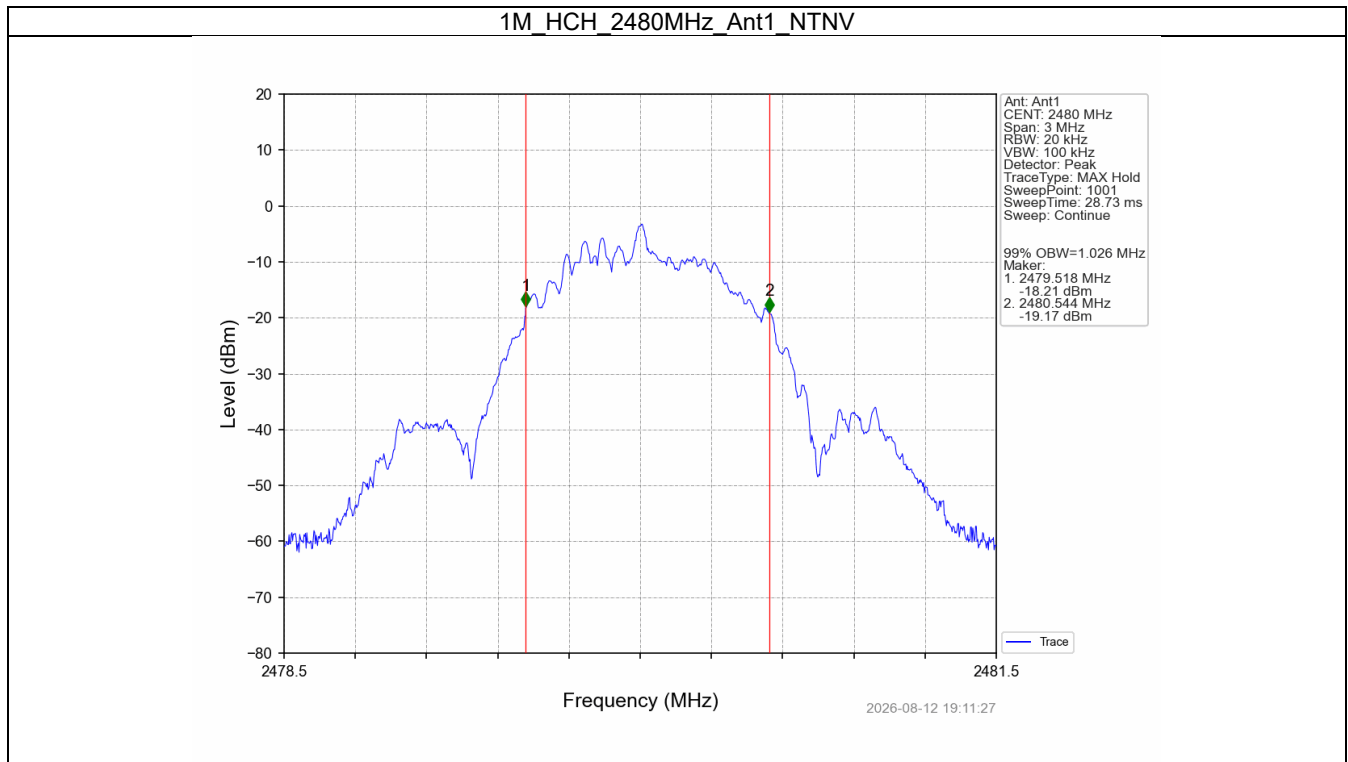


2.2 Test Graph

2.2.1 OBW

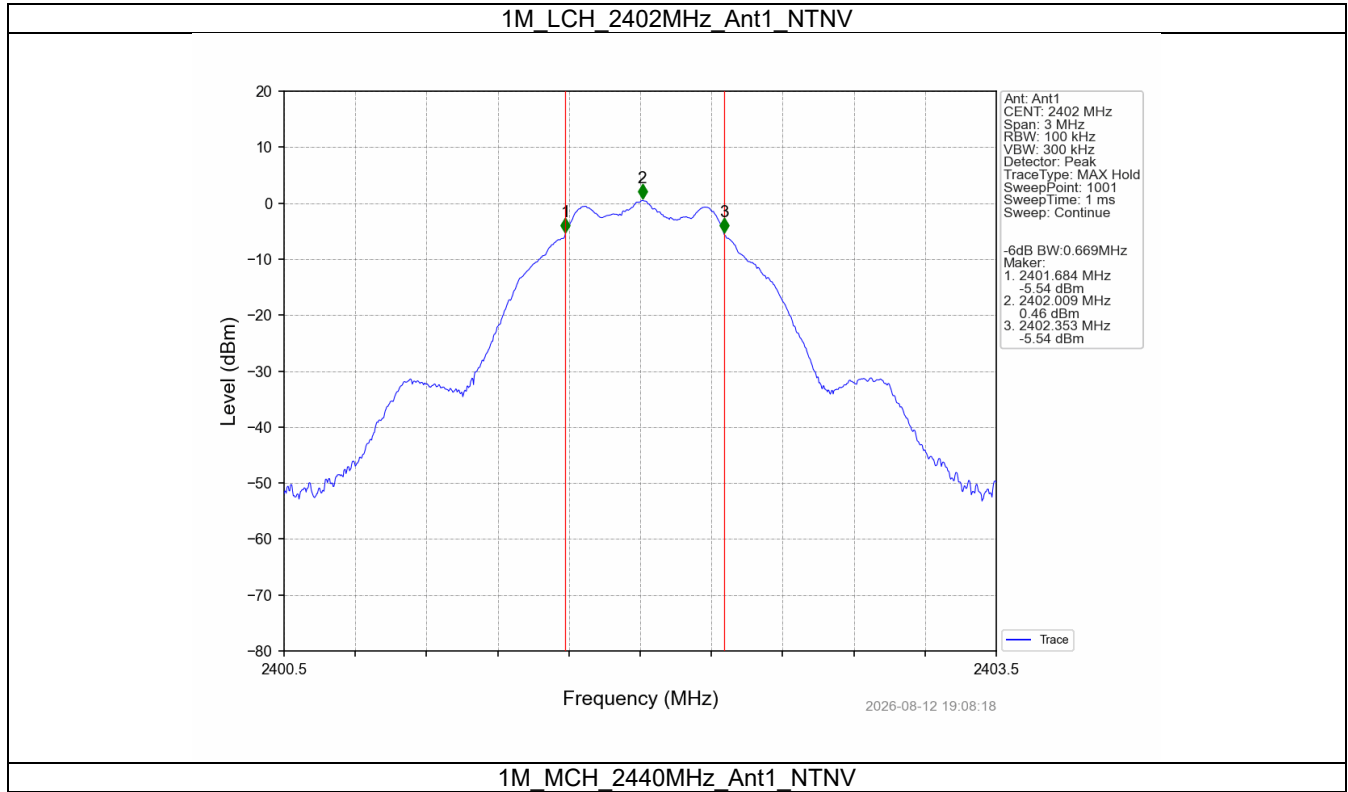


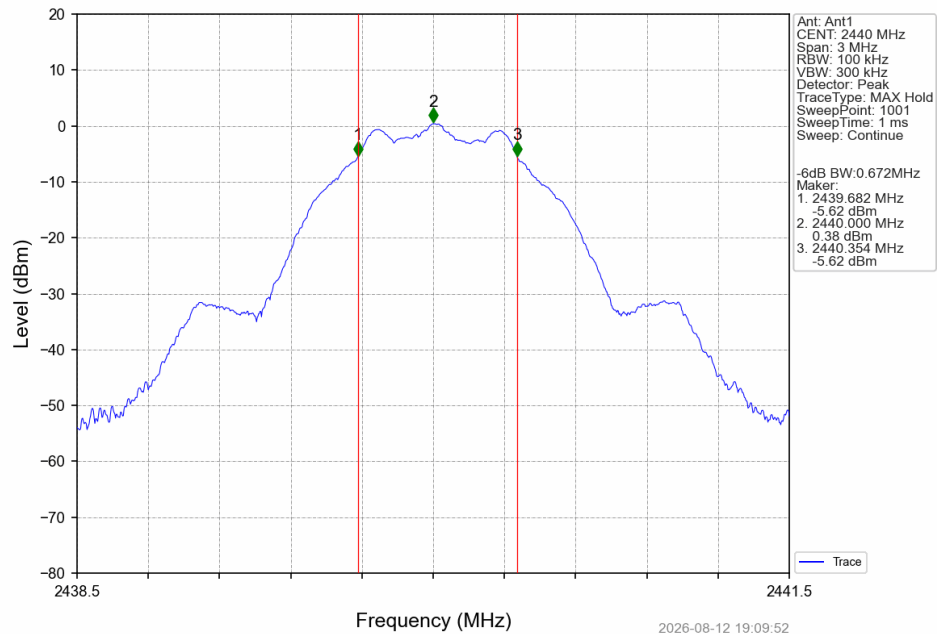


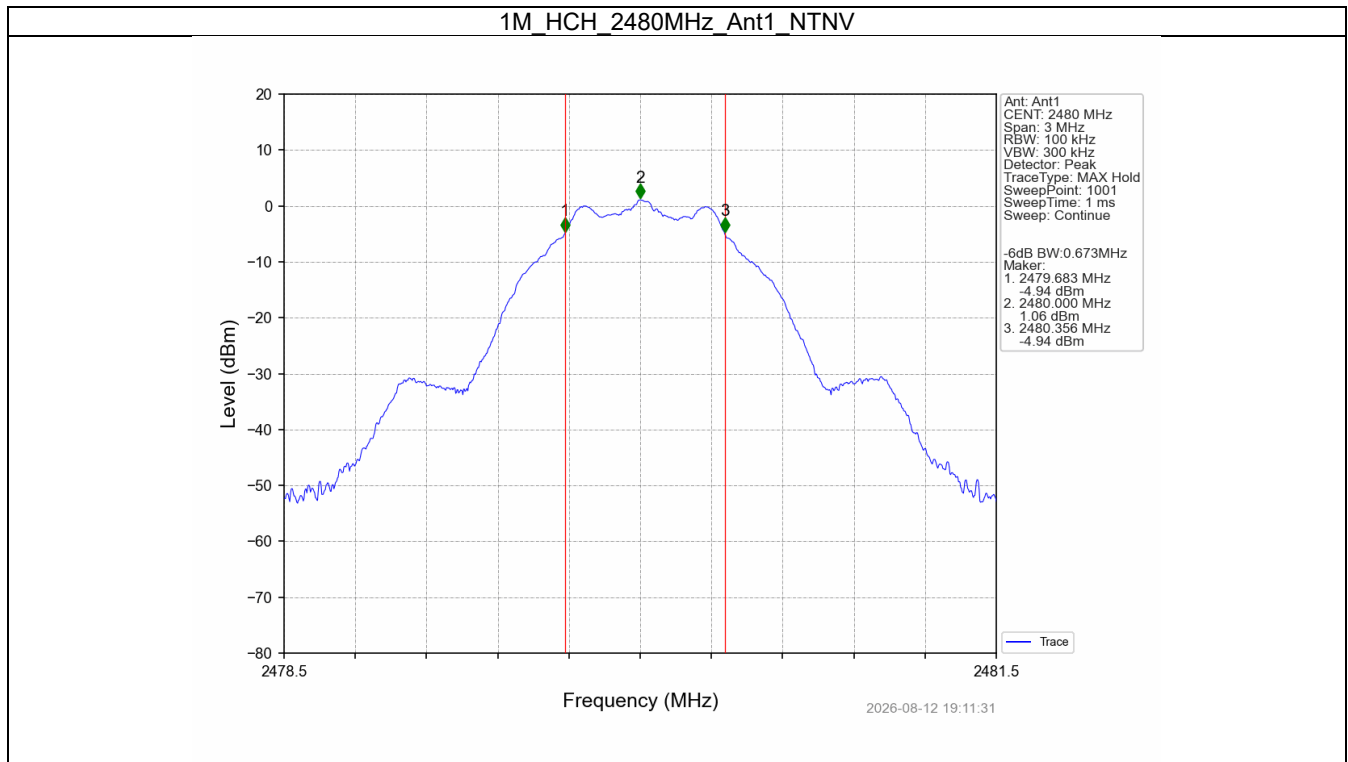




2.2.2 6dB BW









3. Maximum Conducted Output Power

3.1 Test Result

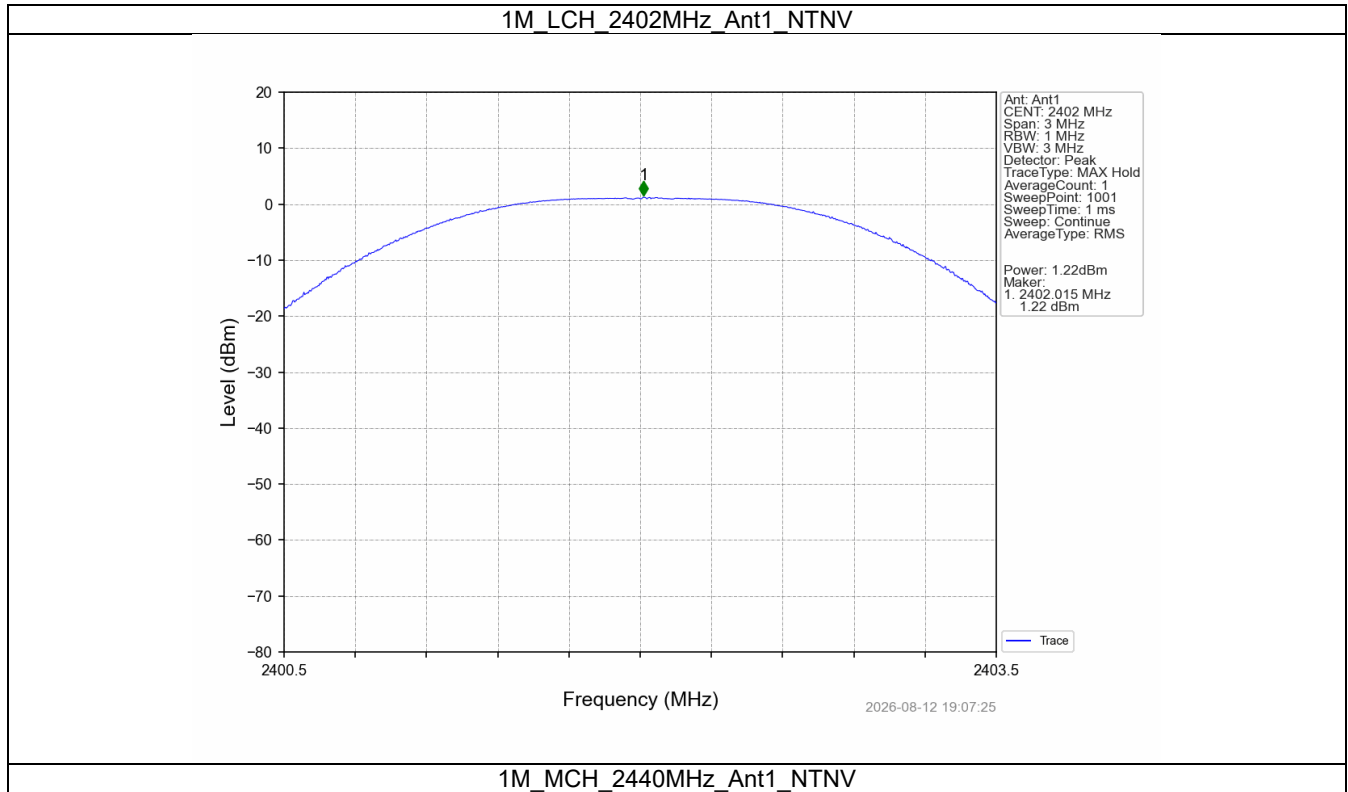
3.1.1 Power

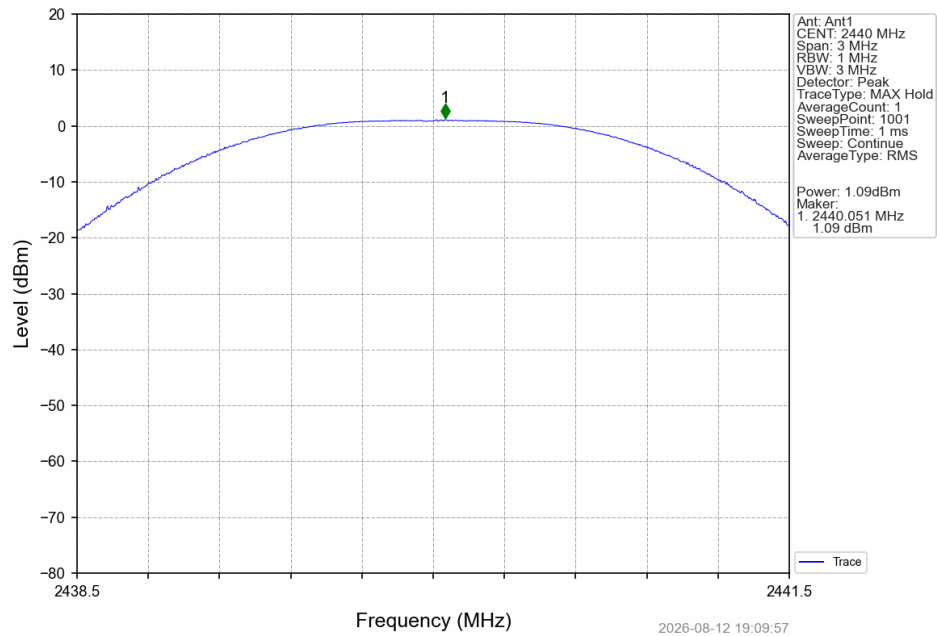
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.22	<=30	Pass
		2440	1.09	<=30	Pass
		2480	1.72	<=30	Pass
Note1: Antenna Gain: Ant1: 2.01dBi;					

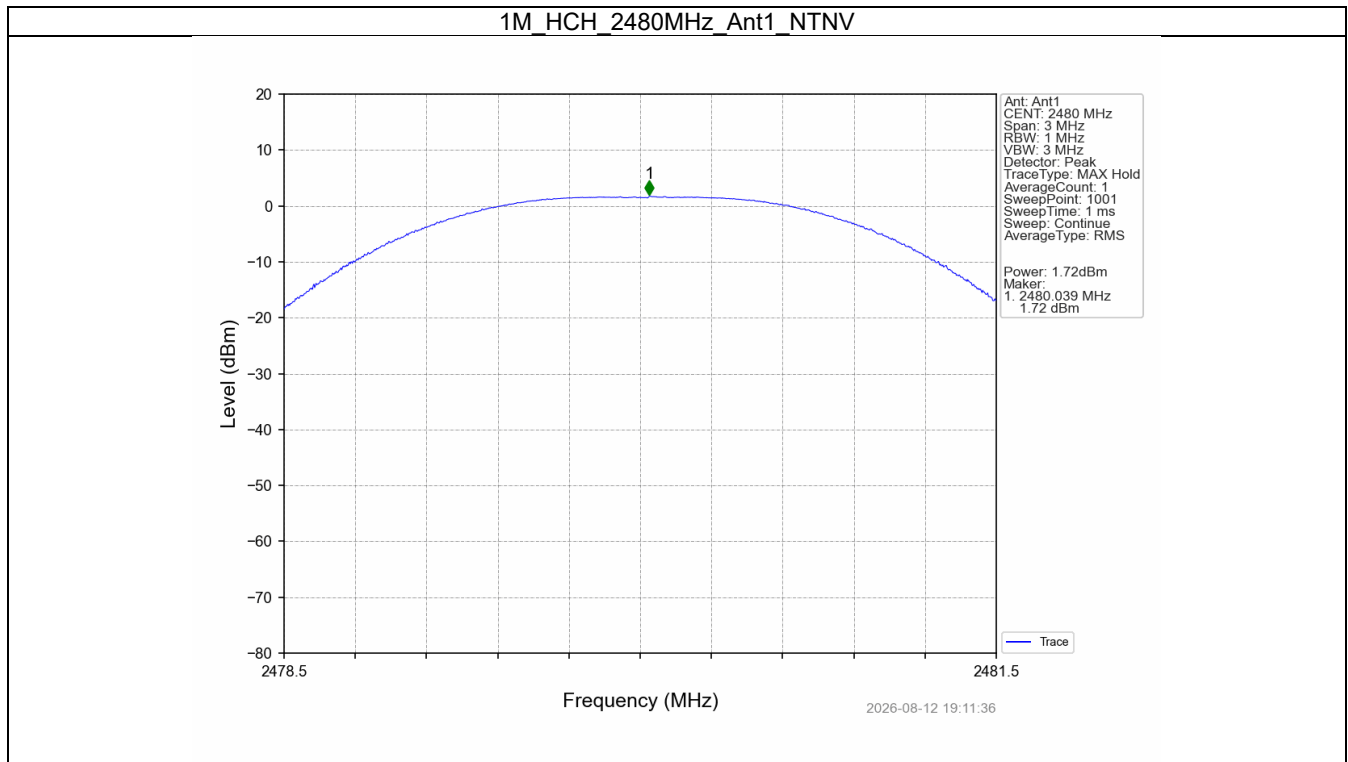


3.2 Test Graph

3.2.1 Power









4. Maximum Power Spectral Density

4.1 Test Result

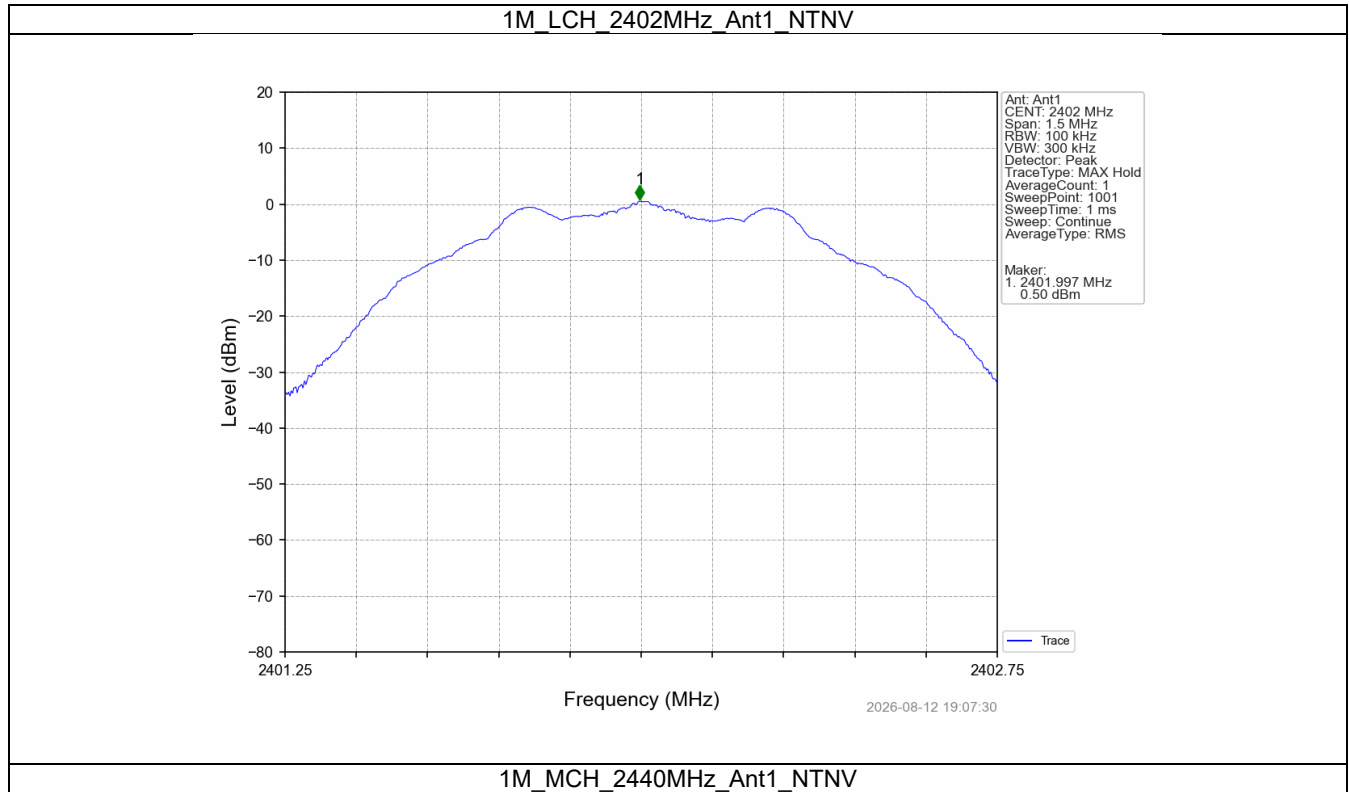
4.1.1 PSD

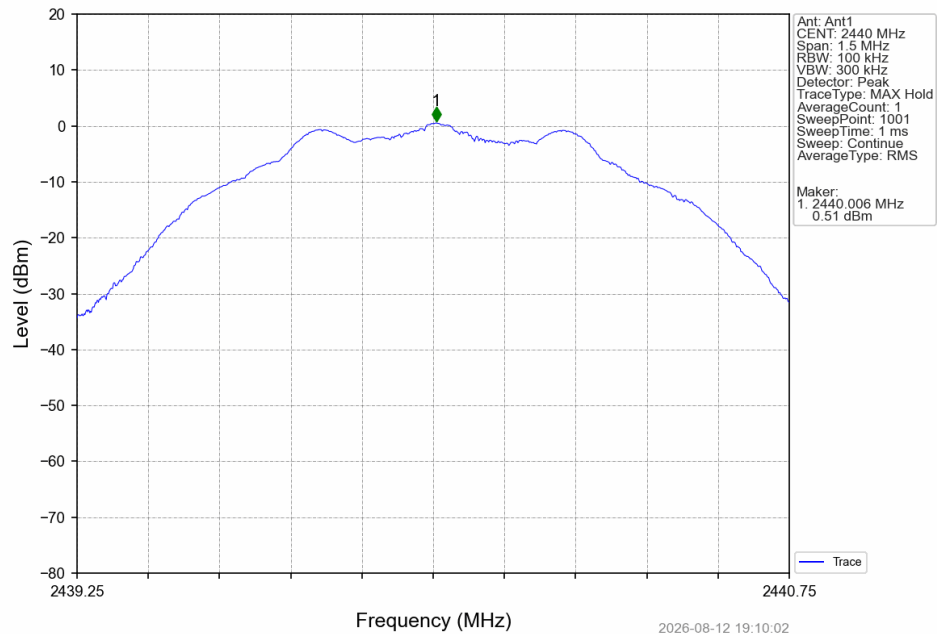
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	0.50dBm/100kHz	<=8	Pass
		2440	0.51dBm/100kHz	<=8	Pass
		2480	1.13dBm/100kHz	<=8	Pass
Note1: Antenna Gain: Ant1: 2.01dBi;					

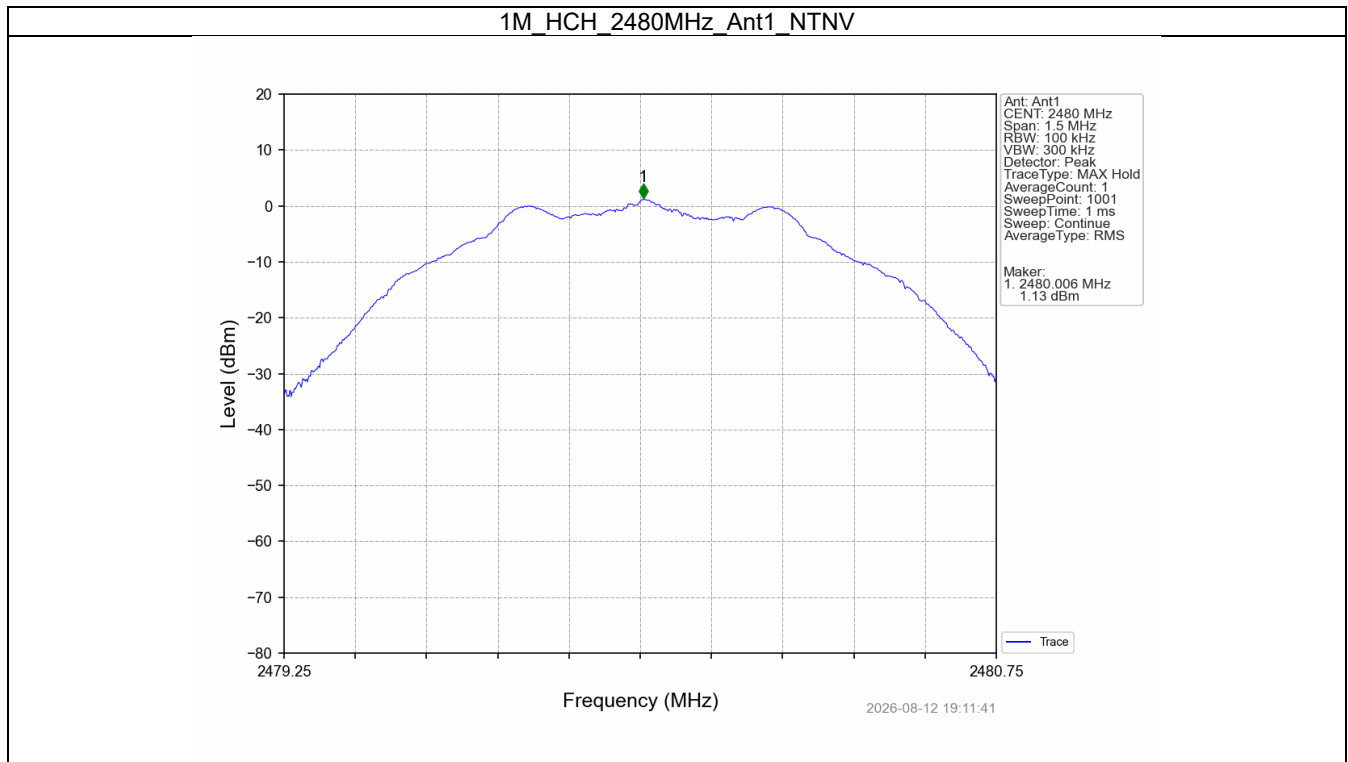


4.2 Test Graph

4.2.1 PSD









5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	0.51
		2440	1	0.29
		2480	1	1.08

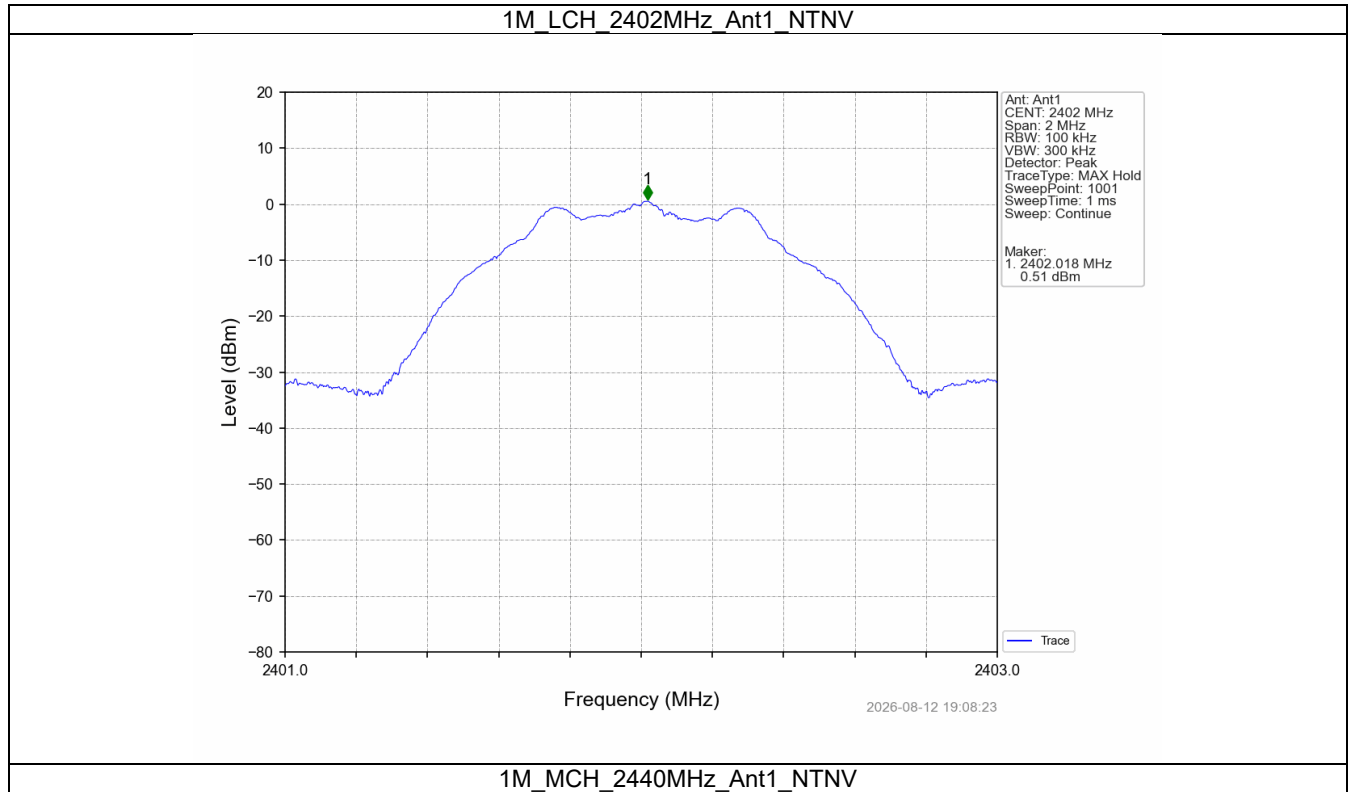
5.1.2 CSE

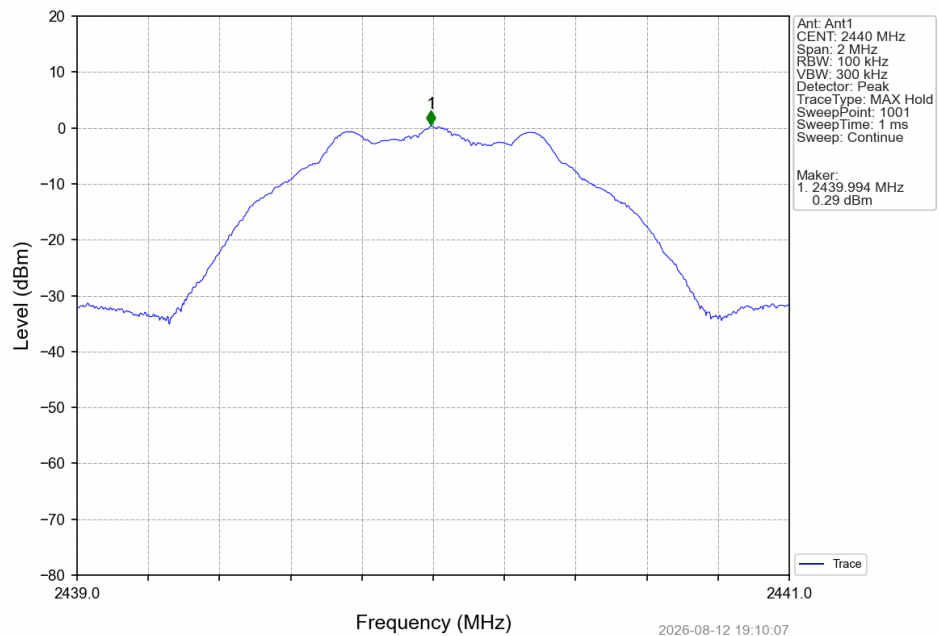
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.51	-19.49	Pass
		2440	1	0.29	-19.71	Pass
		2480	1	1.08	-18.92	Pass

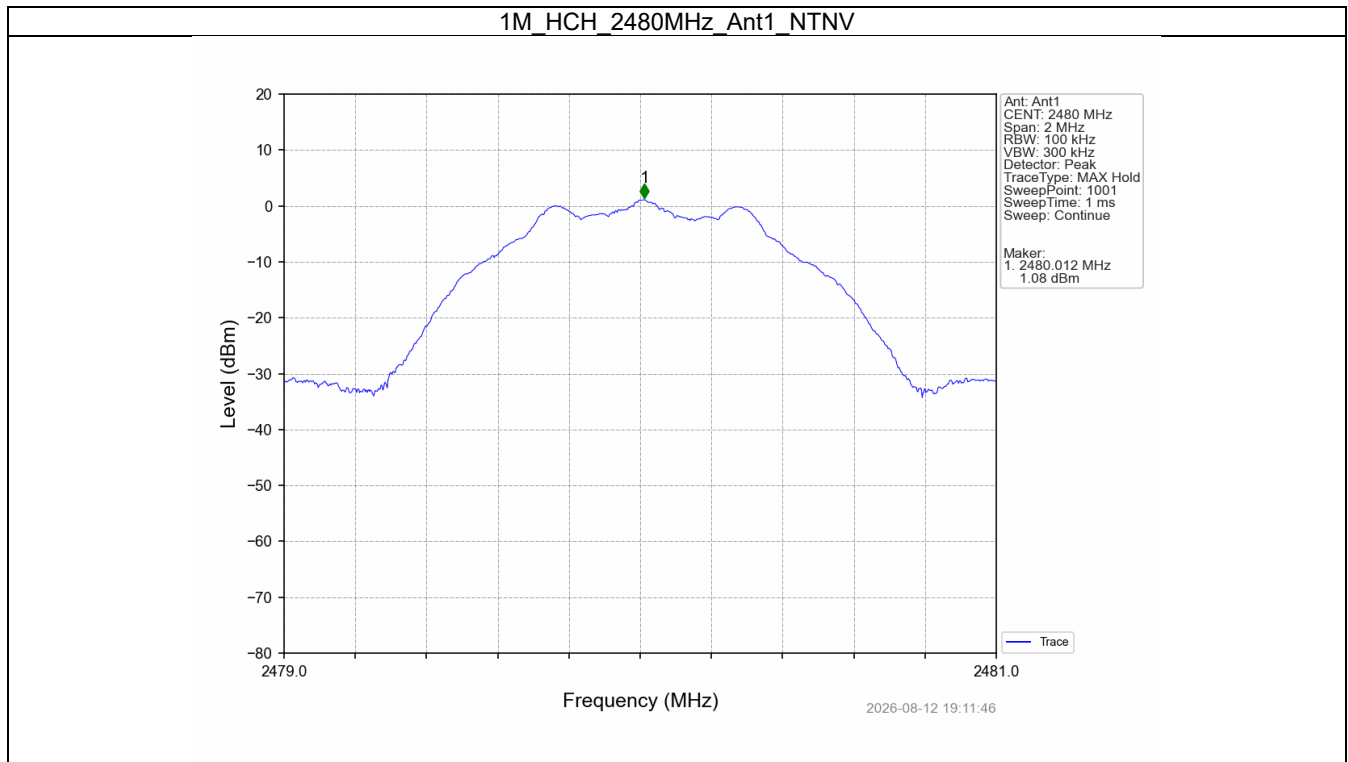


5.2 Test Graph

5.2.1 Ref

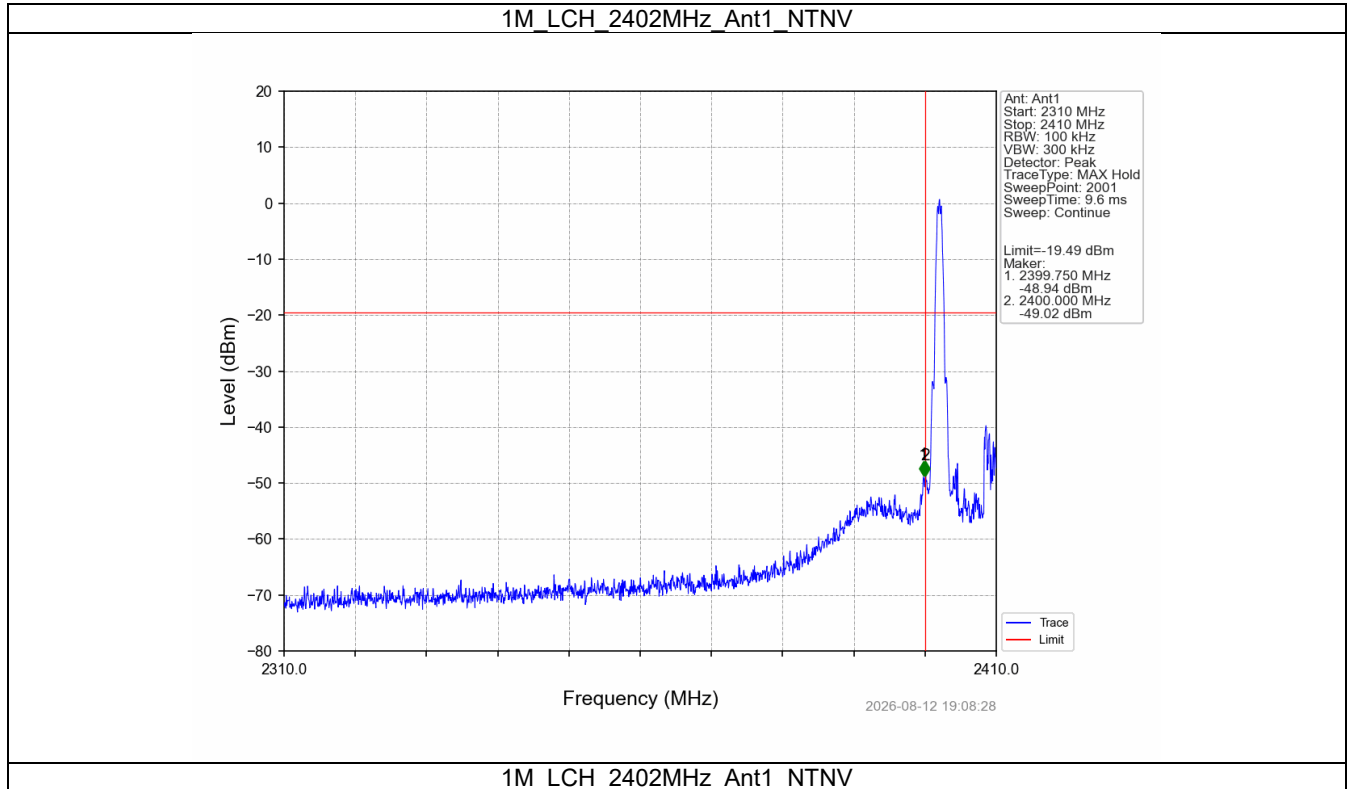


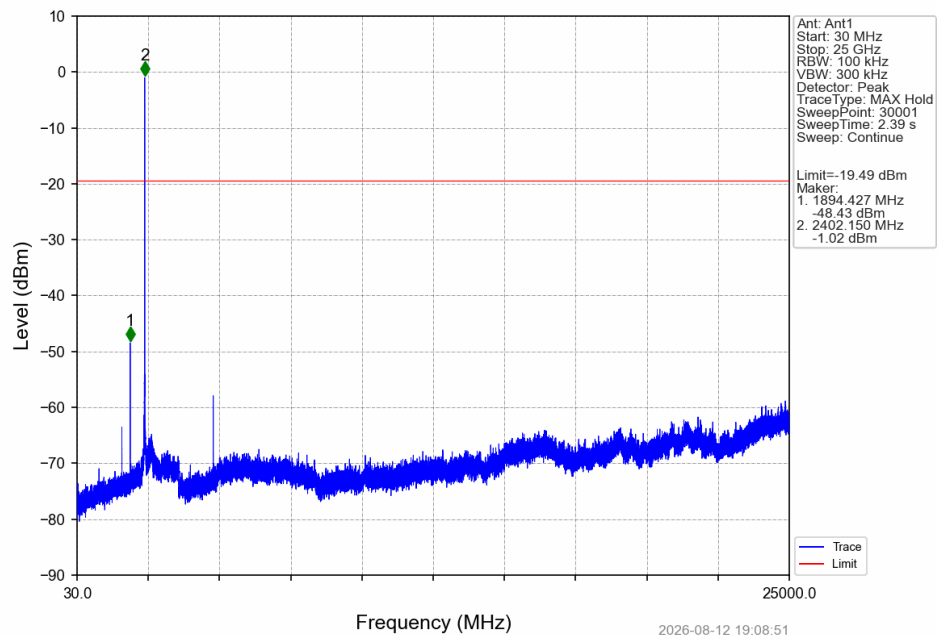






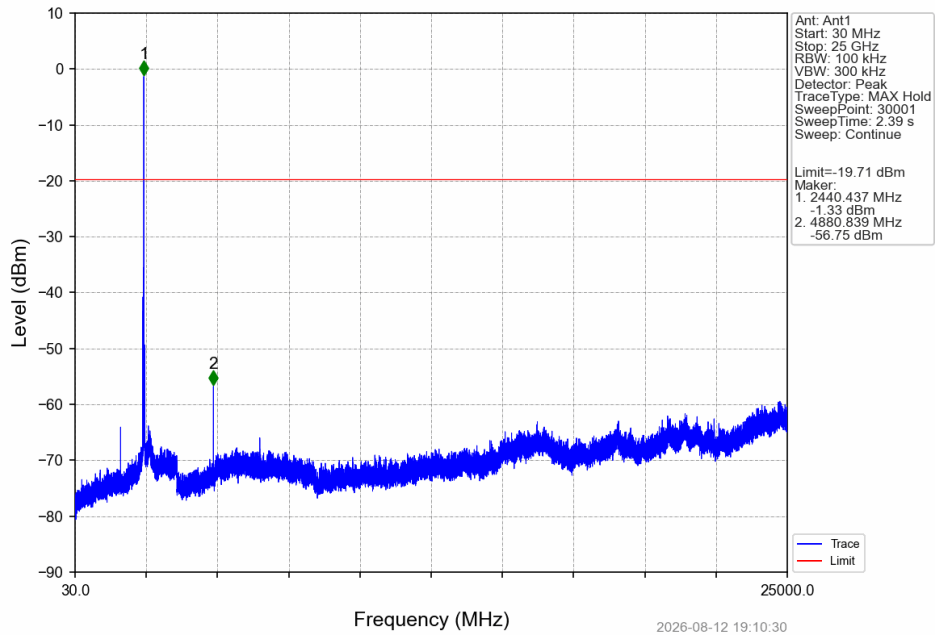
5.2.2 CSE







1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

