



RF Test Report

For

Project No.:	ZKT-240715I8200E-2
Client:	SHENZHEN FCAR TECHNOLOGY CO., LTD
Address:	8th floor, Chuangyi Building, No. 3025 Nanhai Ave., Nanshan, Shenzhen, Guangdong, China 518060
Product Description:	Auto Diagnostic Tool
Model	CW700
Test Engineer:	Franco
Test Date:	2024-07-16

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
Frequency Error	Pass
Form731	Pass



1. Duty Cycle

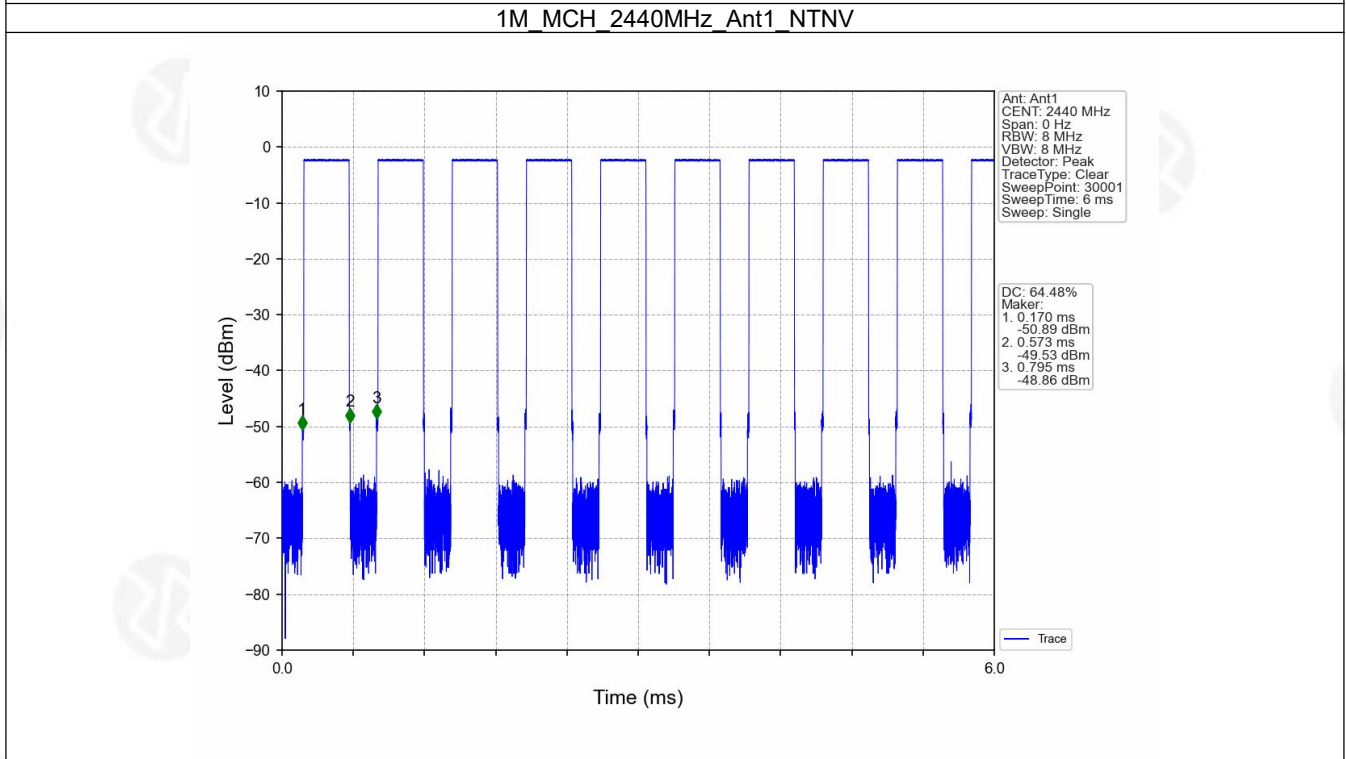
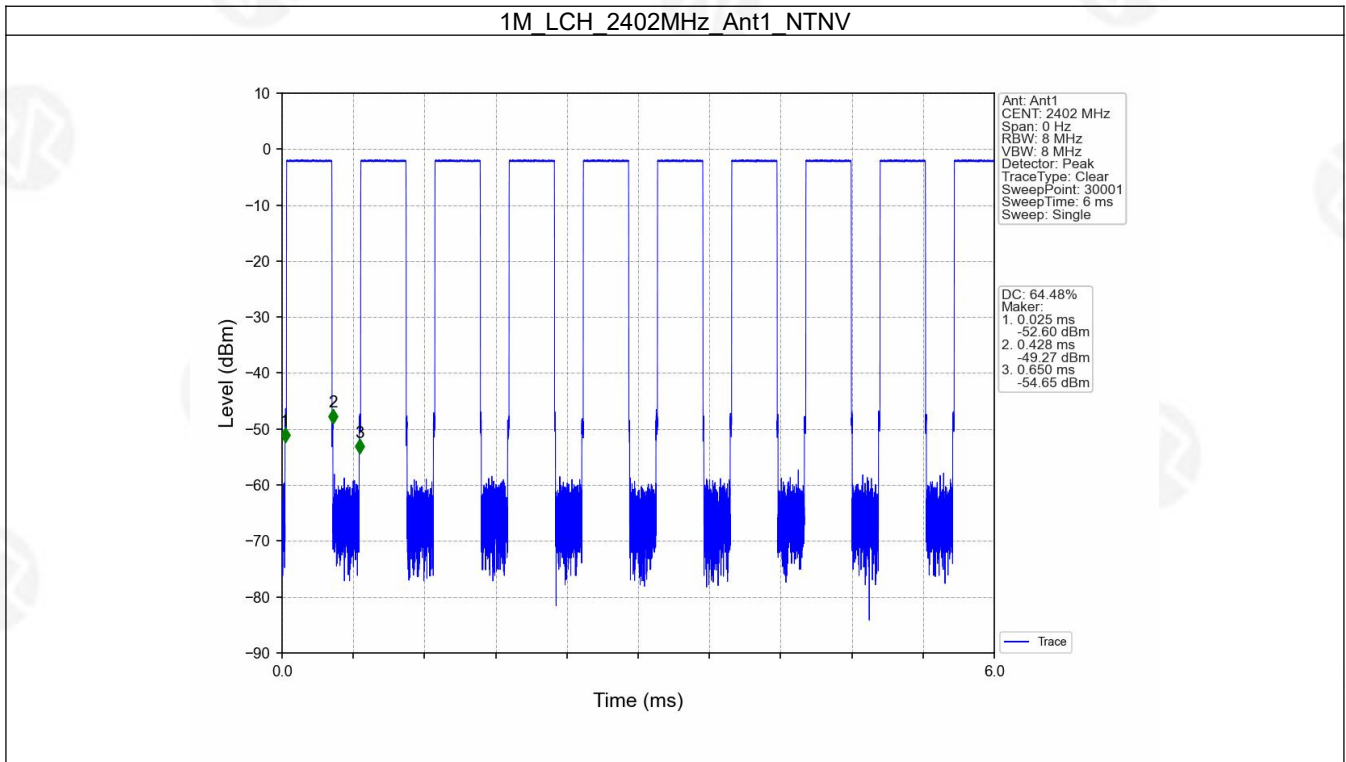
1.1 Ant1

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	0.403	0.625	64.48	1.91	0.00
		2440	0.403	0.625	64.48	1.91	0.03
		2480	0.403	0.625	64.48	1.91	0.00

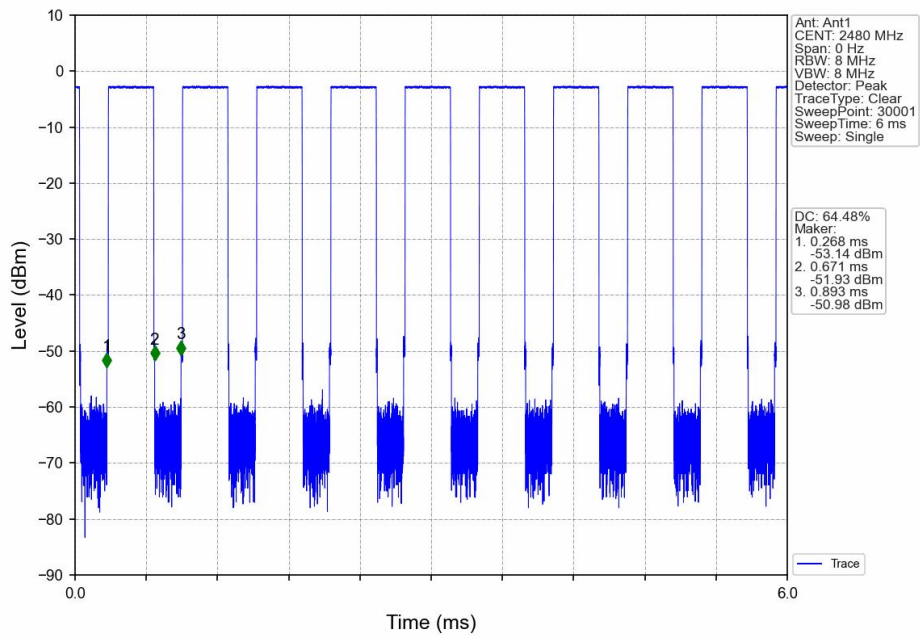


1.1.2 Test Graph





1M_HCH_2480MHz_Ant1_NTNV





2. Bandwidth

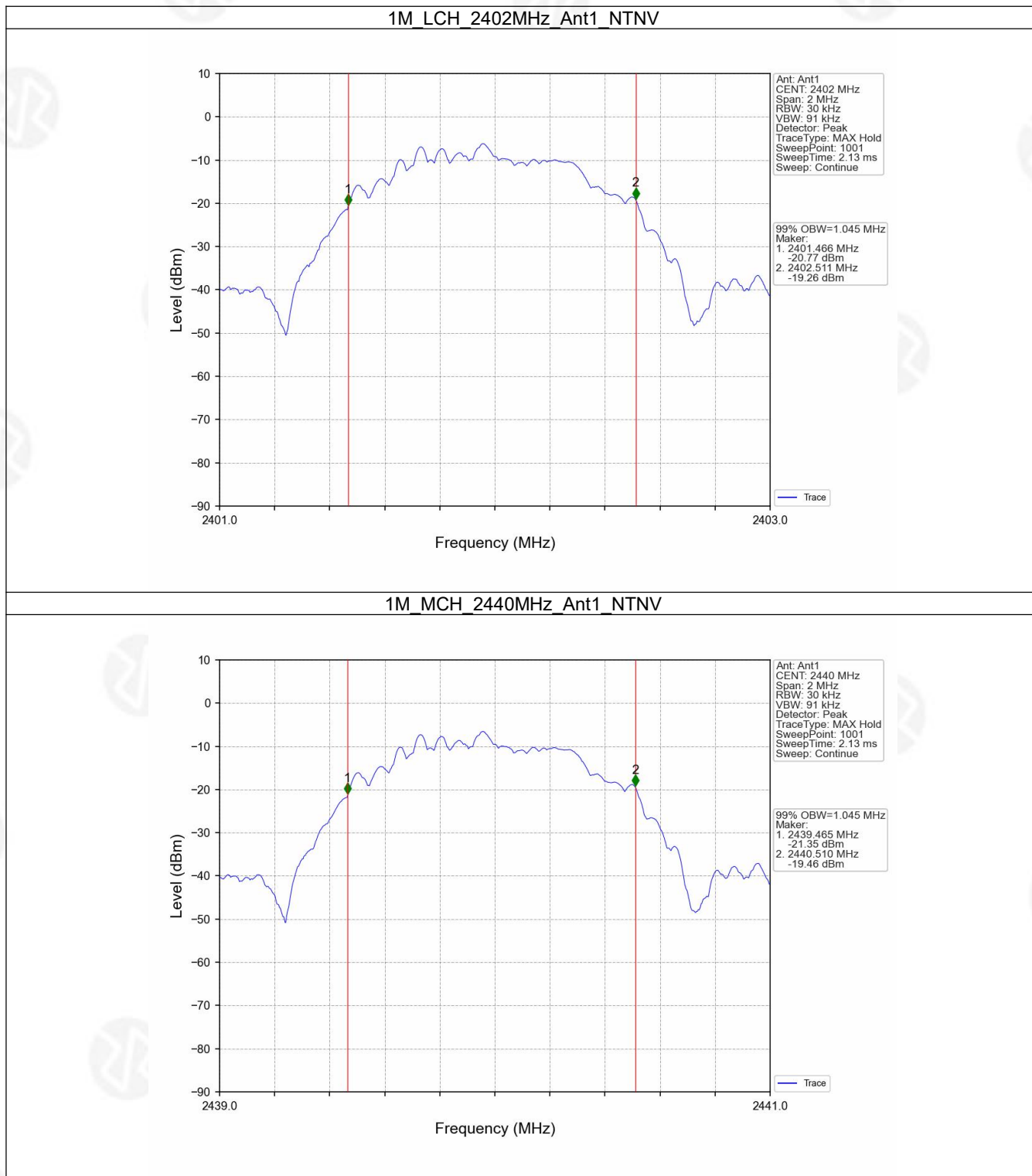
2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.045	/	Pass
		2440	1	1.045	/	Pass
		2480	1	1.046	/	Pass

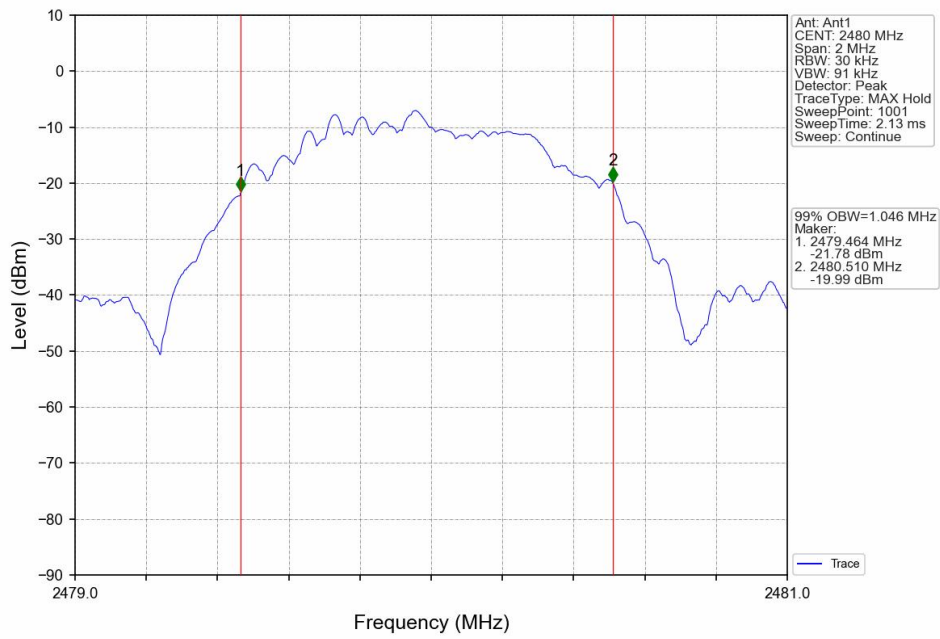


2.1.2 Test Graph





1M_HCH_2480MHz_Ant1_NTNV





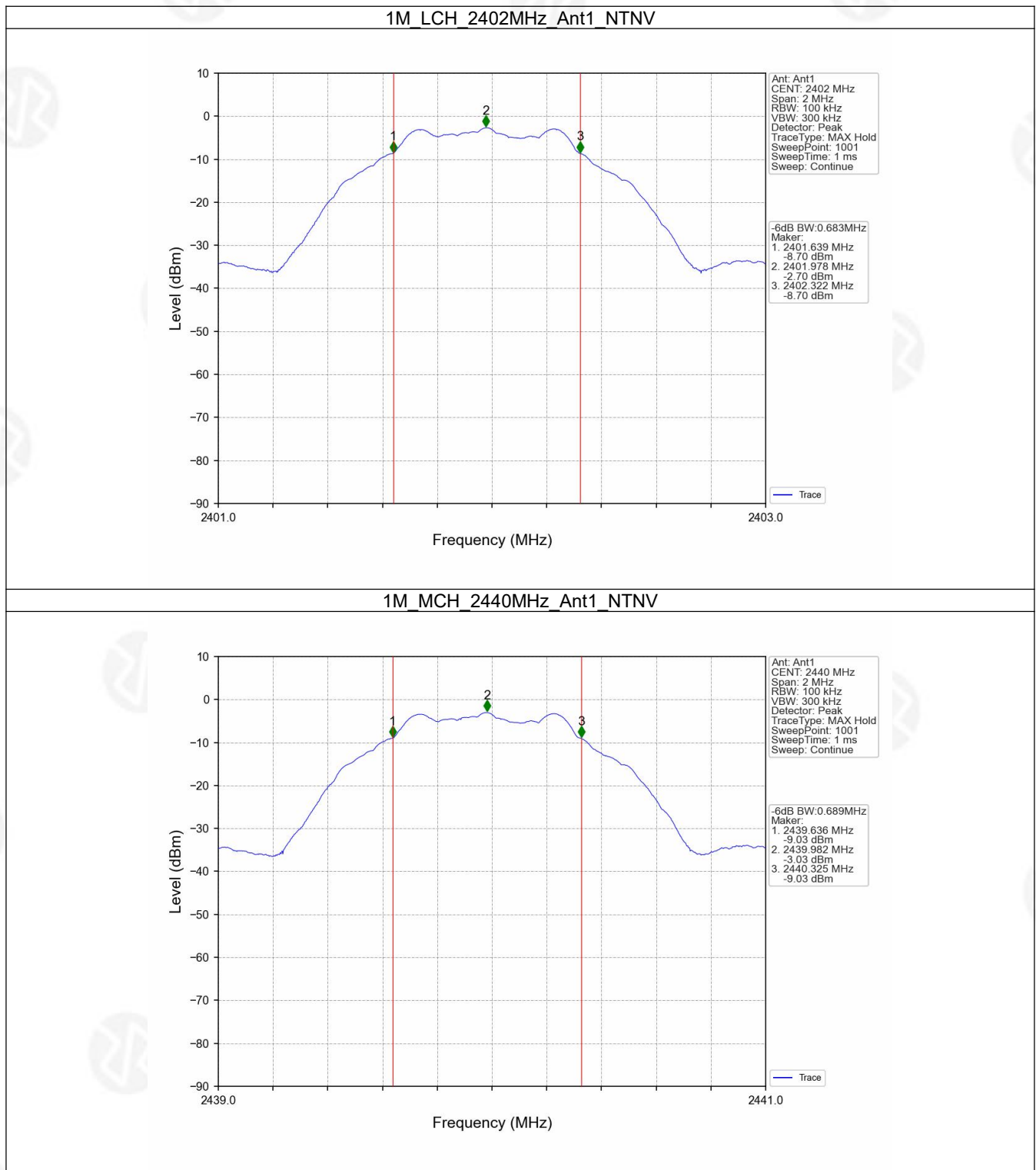
2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.683	≥ 0.5	Pass
		2440	1	0.689	≥ 0.5	Pass
		2480	1	0.700	≥ 0.5	Pass

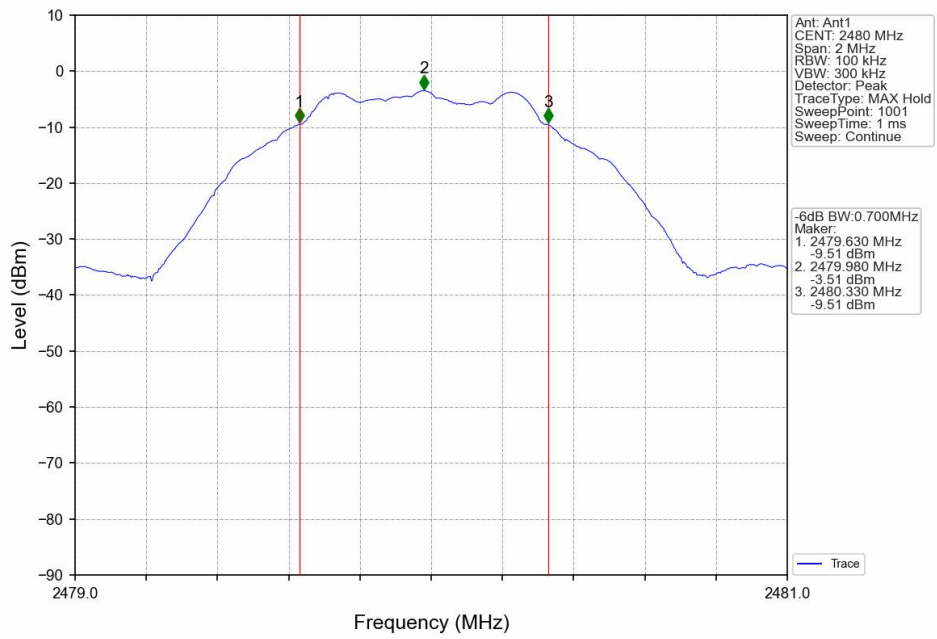


2.2.2 Test Graph





1M_HCH_2480MHz_Ant1_NTNV





3. Maximum Conducted Output Power

3.1 Power

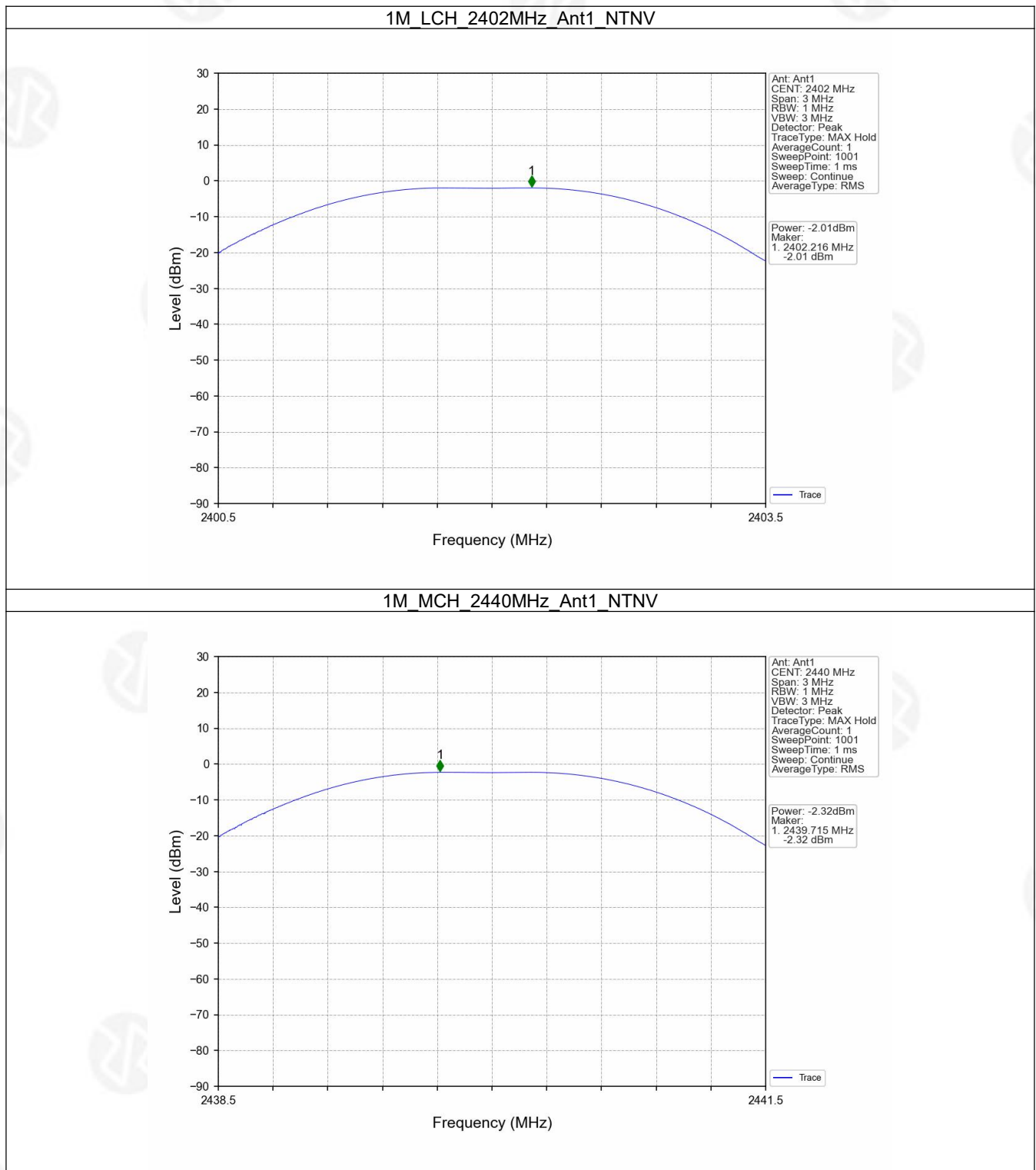
3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-2.01	<=30	Pass
		2440	-2.32	<=30	Pass
		2480	-2.81	<=30	Pass

Note1: Antenna Gain: Ant1: 1.17dBi;

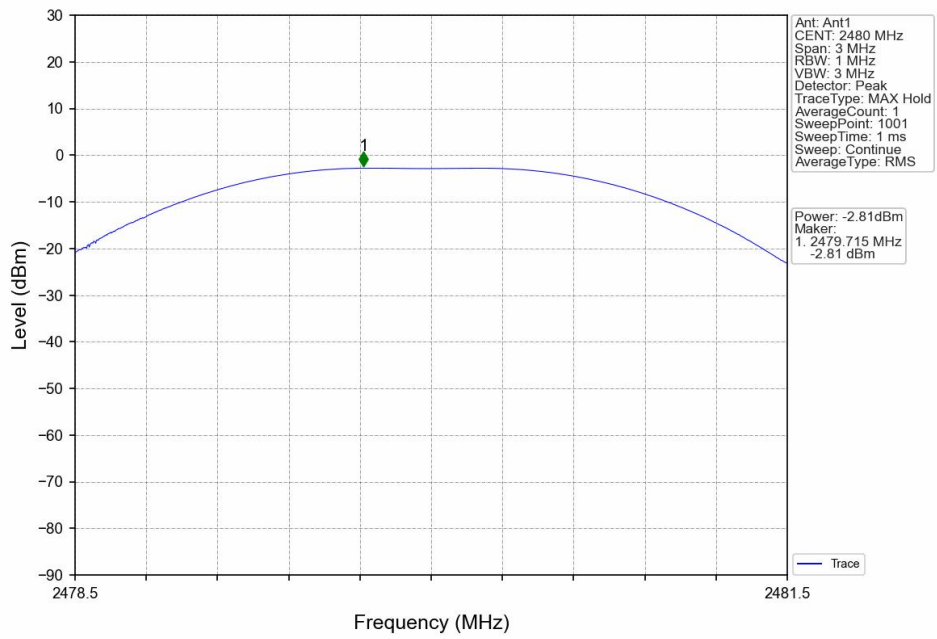


3.1.2 Test Graph





1M_HCH_2480MHz_Ant1_NTNV





4. Maximum Power Spectral Density

4.1 PSD

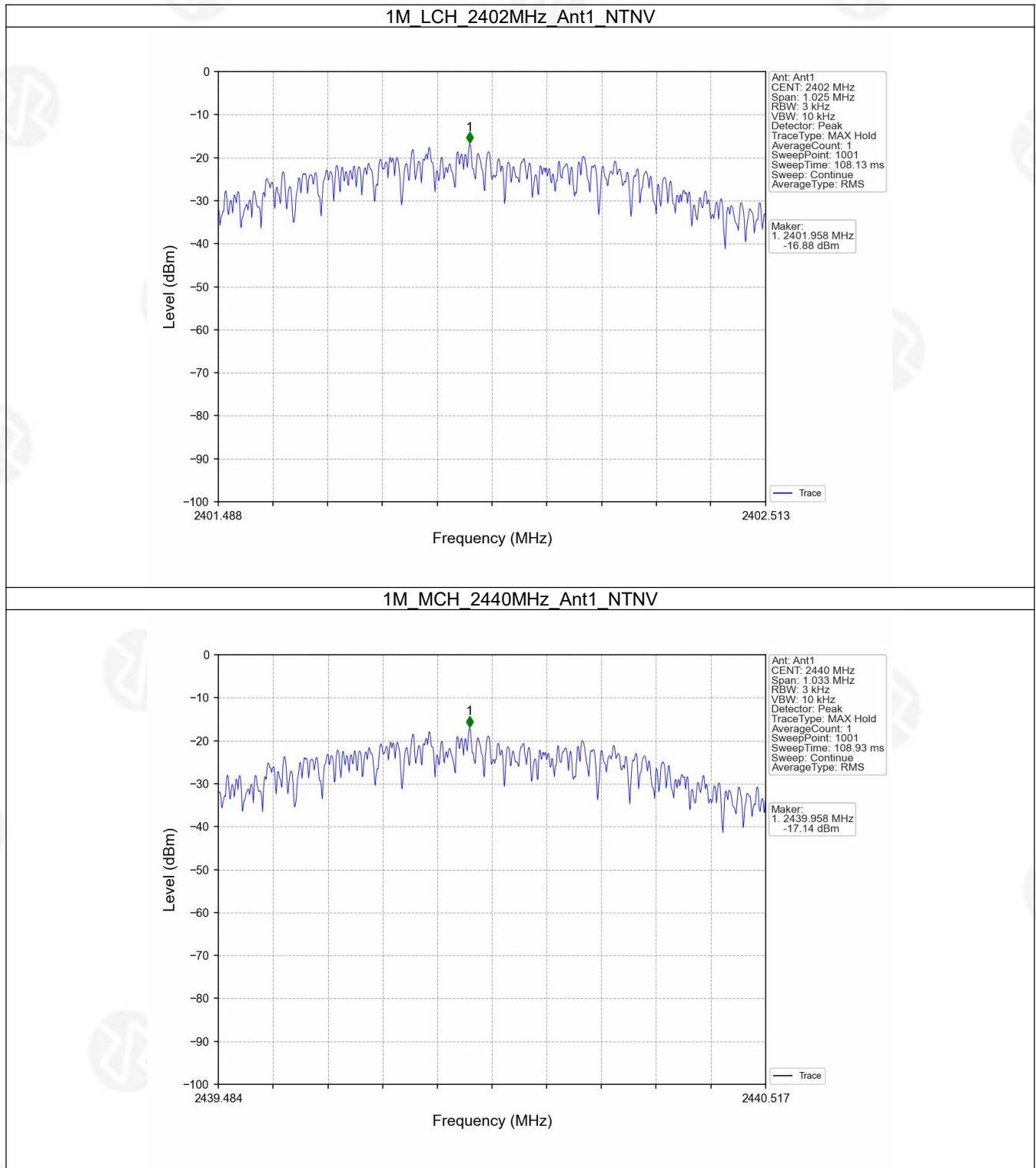
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-16.88	<=8	Pass
		2440	-17.14	<=8	Pass
		2480	-17.68	<=8	Pass

Note1: Antenna Gain: Ant1: 1.17dBi;

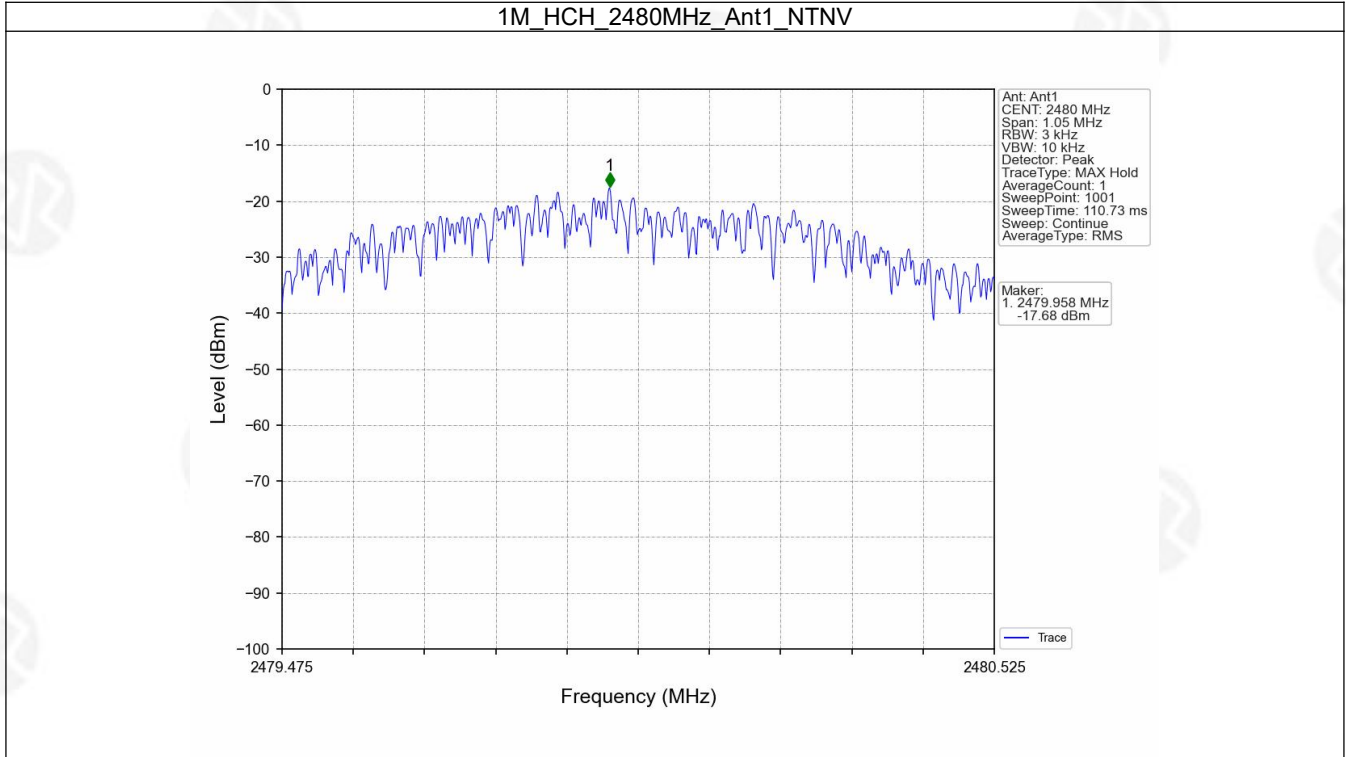


4.1.2 Test Graph





1M_HCH_2480MHz_Ant1_NTNV





5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

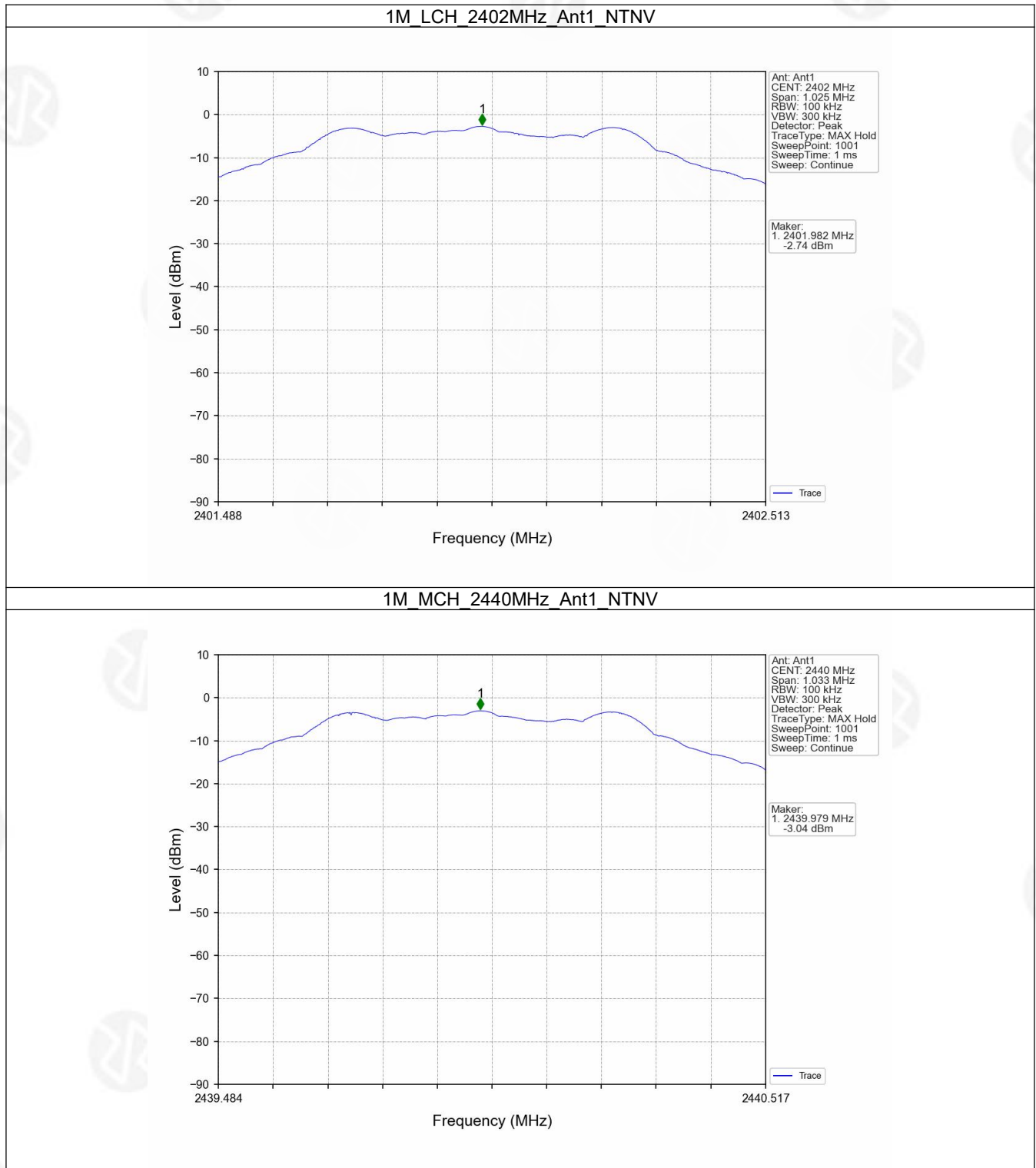
5.1.1 Test Result

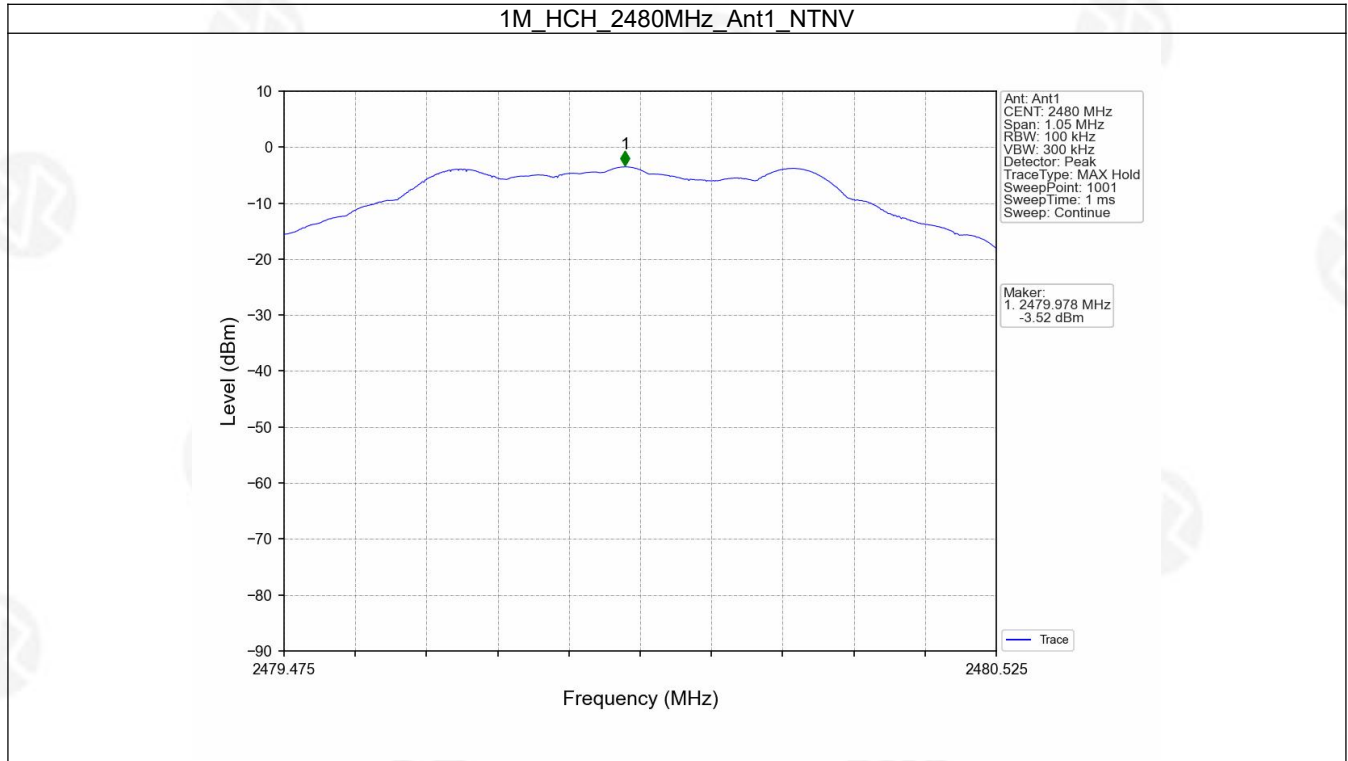
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-2.74
		2440	1	-3.04
		2480	1	-3.52

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



5.1.2 Test Graph







5.2 CSE

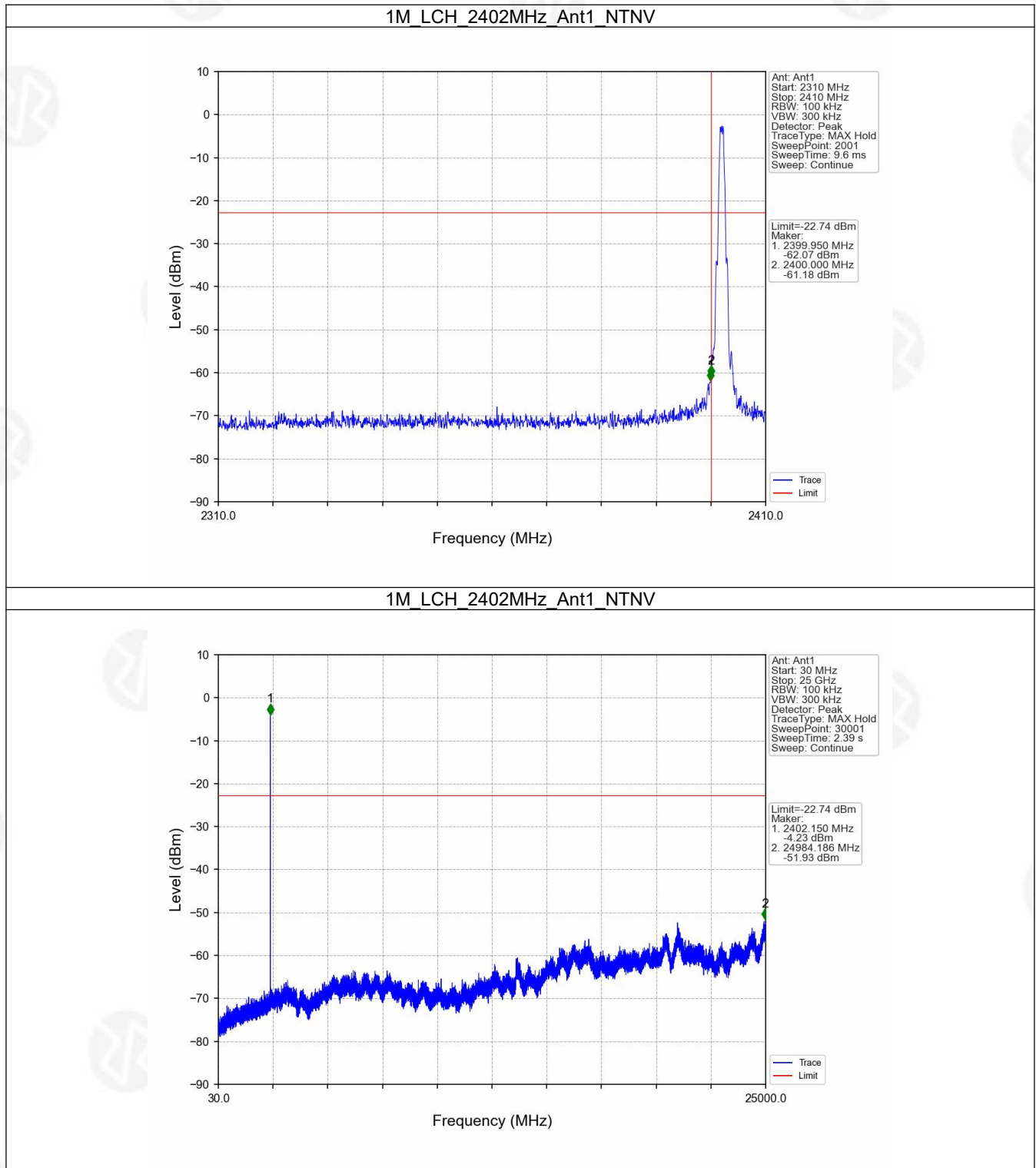
5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-2.74	-22.74	Pass
		2440	1	-2.74	-22.74	Pass
		2480	1	-2.74	-22.74	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

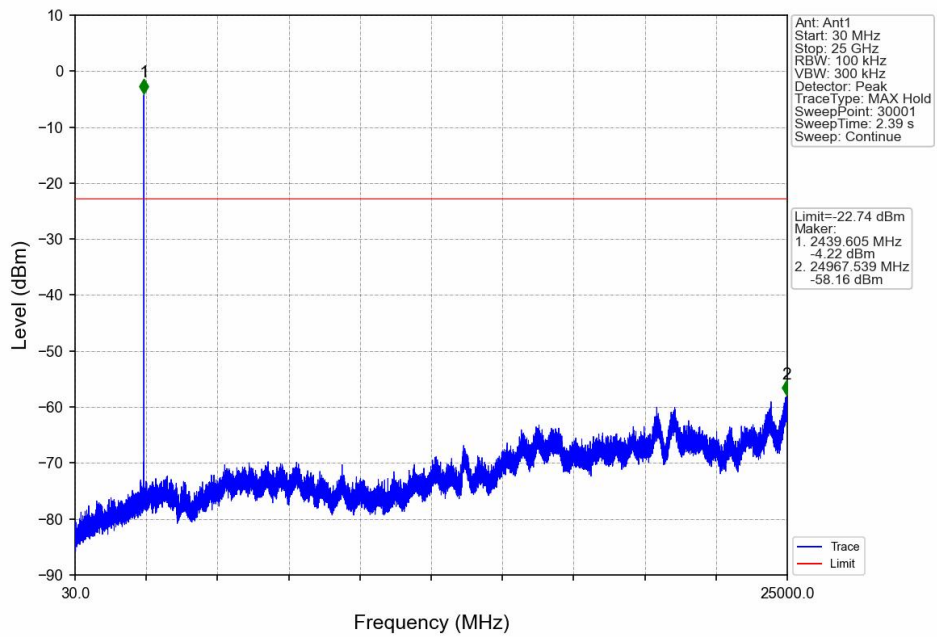


5.2.2 Test Graph

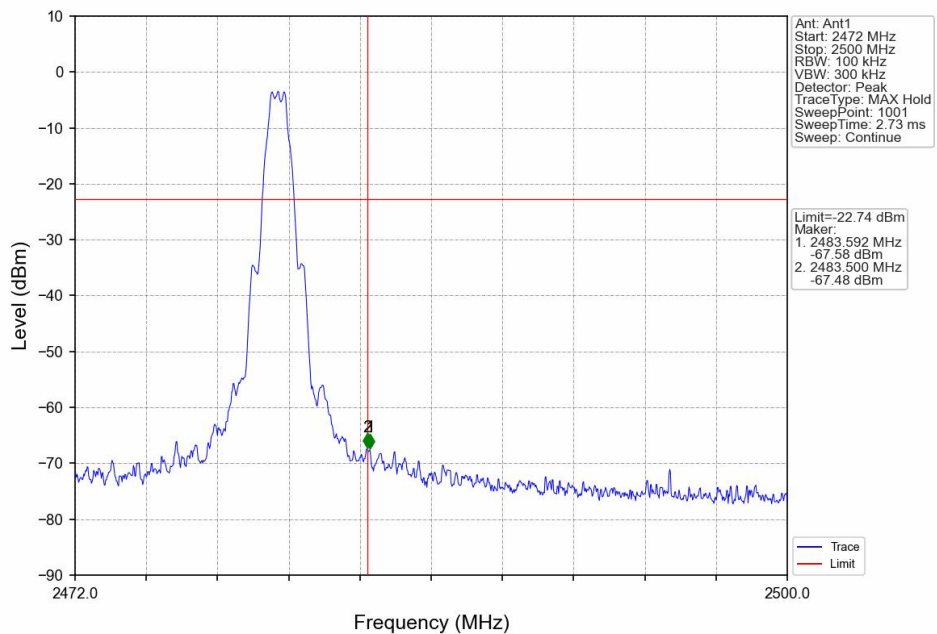




1M_MCH_2440MHz_Ant1_NTNV

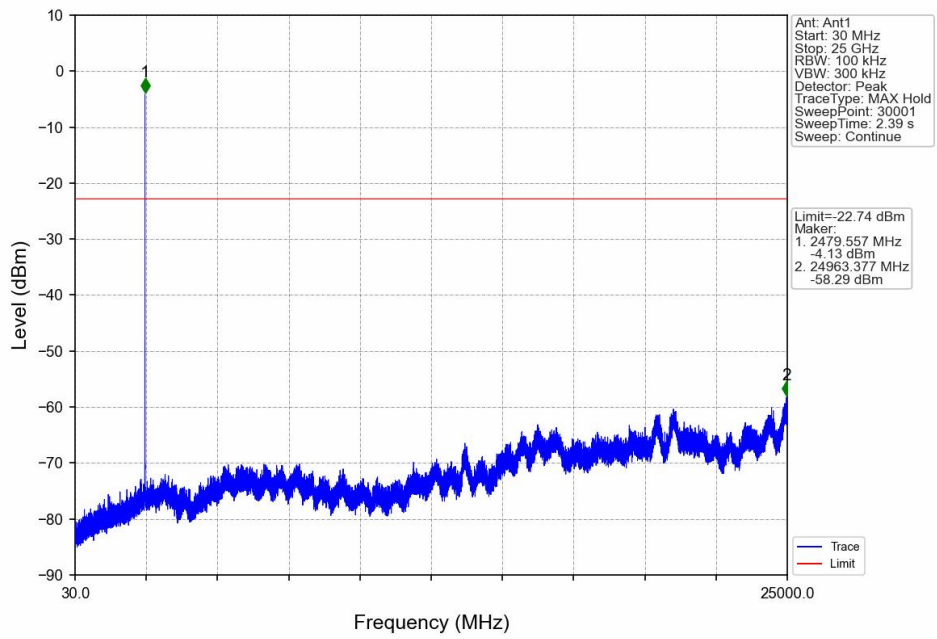


1M_HCH_2480MHz_Ant1_NTNV





1M_HCH_2480MHz_Ant1_NTNV





6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0006	-2.01