



RF Test Report

For

Project No.:	ZKT-241209L17899E-2
Client:	SHENZHEN FCAR TECHNOLOGY CO.,LTD
Manufacturer:	SHENZHEN FCAR TECHNOLOGY CO.,LTD
Product Description:	VCI
Model No.	FV500
Test Engineer:	Jim Liu
Test Date:	2024-12-07

Test Summary

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



1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.059	/	Pass
		2440	1	1.060	/	Pass
		2480	1	1.060	/	Pass

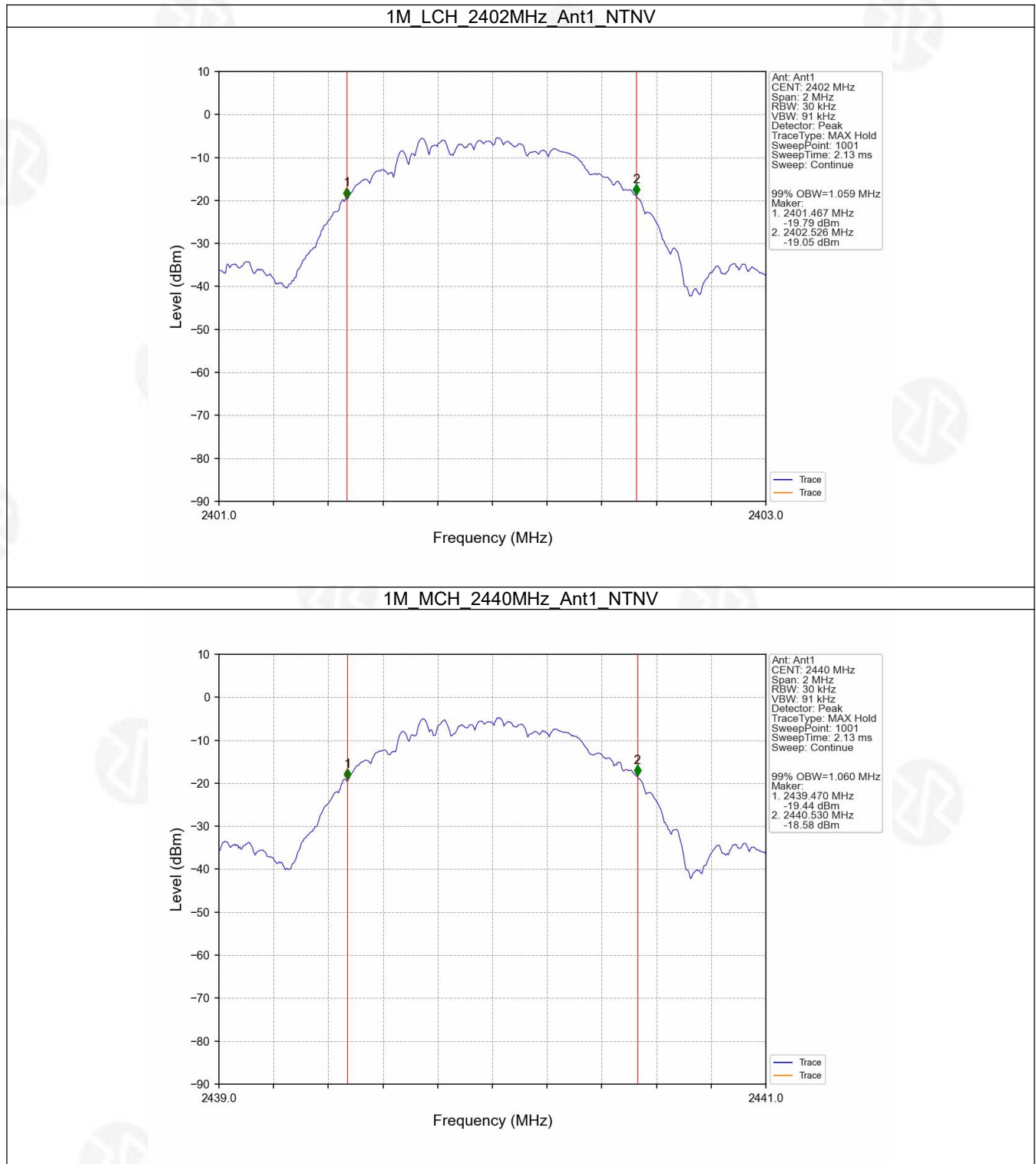
1.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.720	≥ 0.5	Pass
		2440	1	0.716	≥ 0.5	Pass
		2480	1	0.719	≥ 0.5	Pass



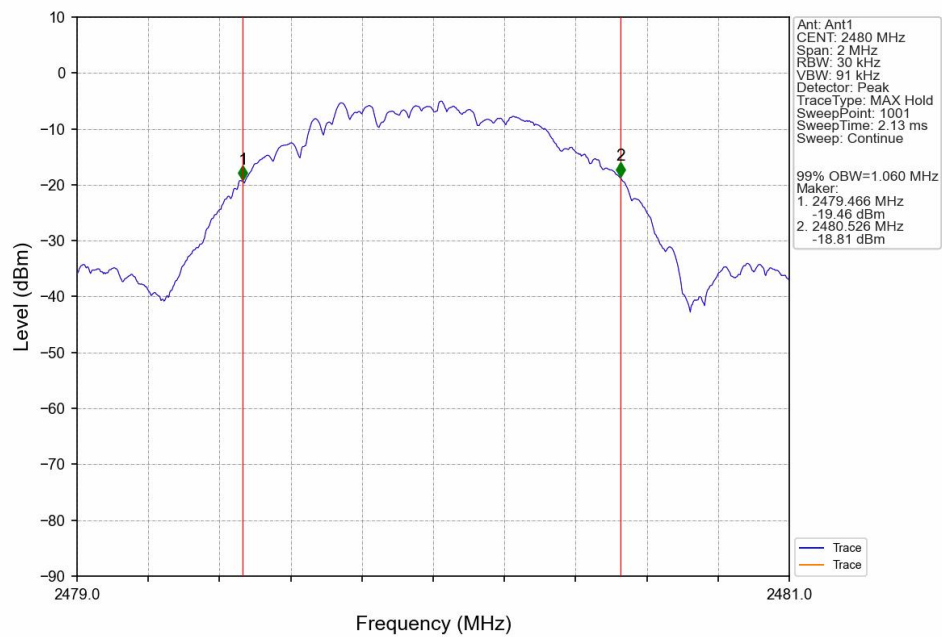
1.2 Test Graph

1.2.1 OBW



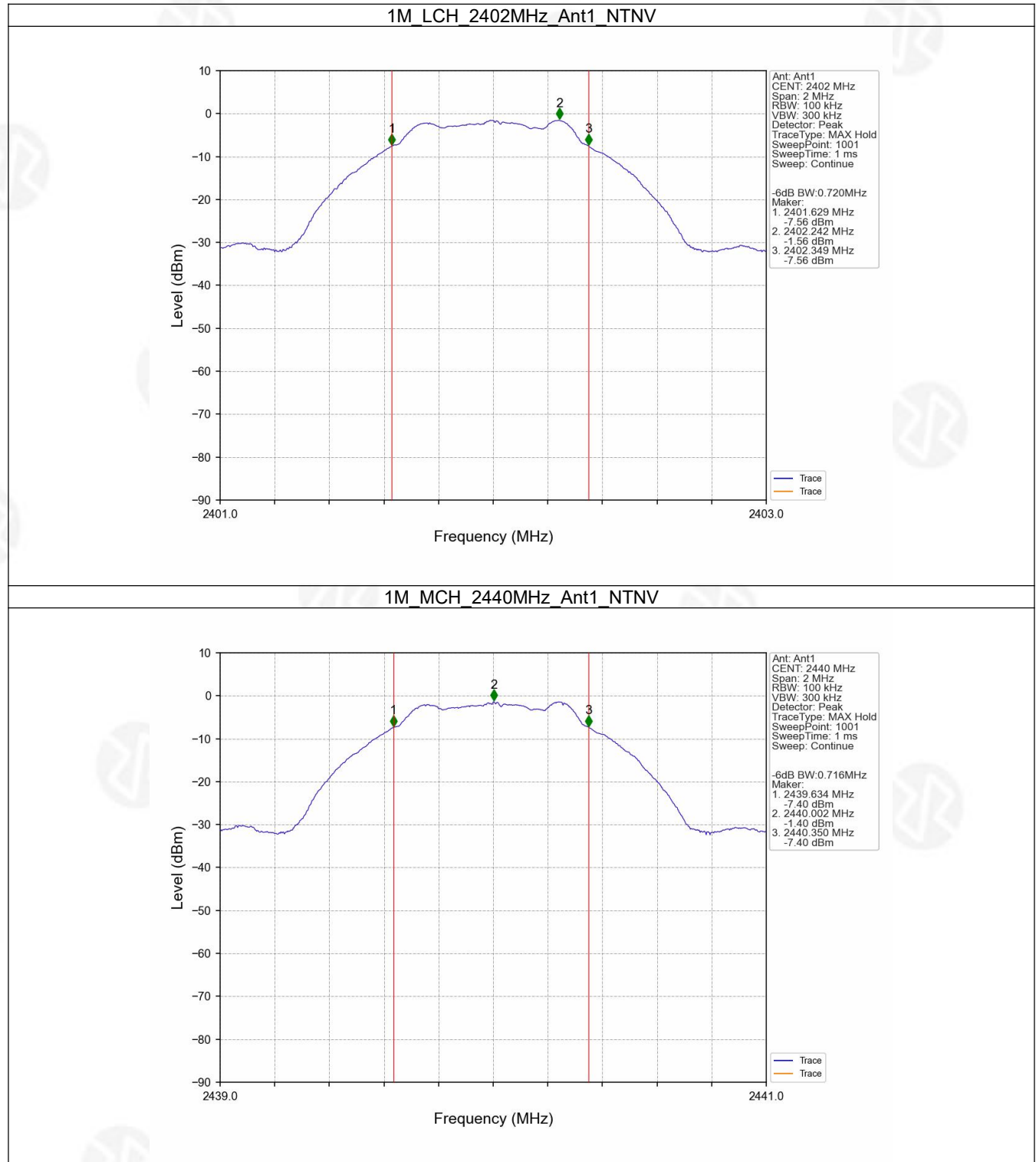


1M_HCH_2480MHz_Ant1_NTNV



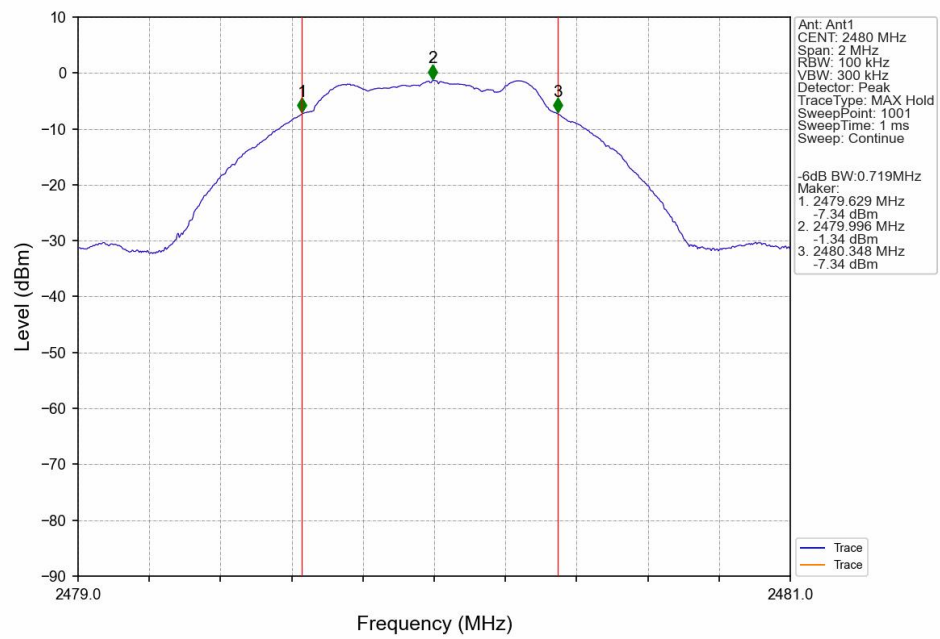


1.2.2 6dB BW





1M_HCH_2480MHz_Ant1_NTNV





2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

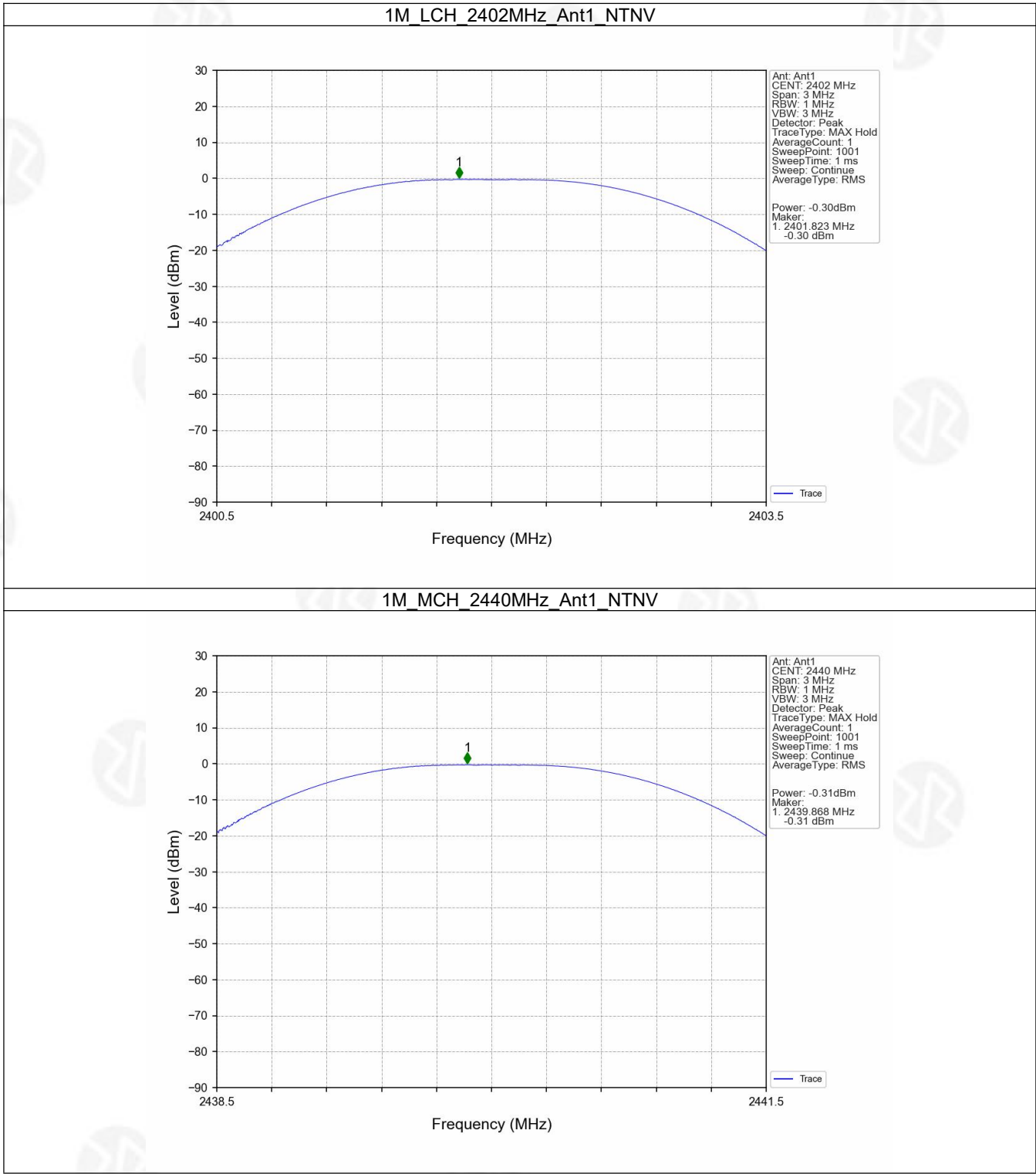
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-0.30	<=30	Pass
		2440	-0.31	<=30	Pass
		2480	-0.32	<=30	Pass

Note1: Antenna Gain: Ant1: 2.26dBi;



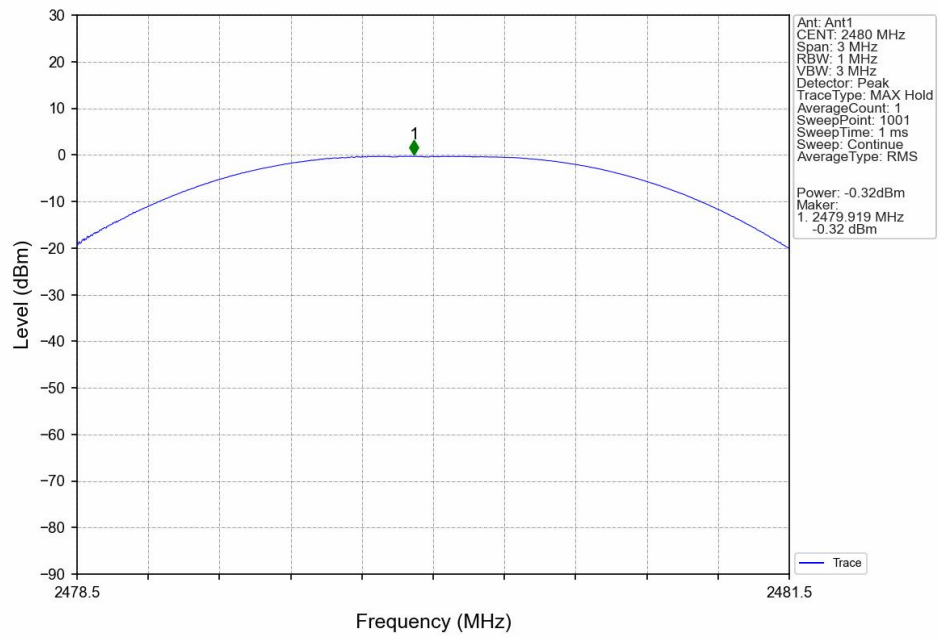
2.2 Test Graph

2.2.1 Power





1M_HCH_2480MHz_Ant1_NTNV





3. Maximum Power Spectral Density

3.1 Test Result

3.1.1 PSD

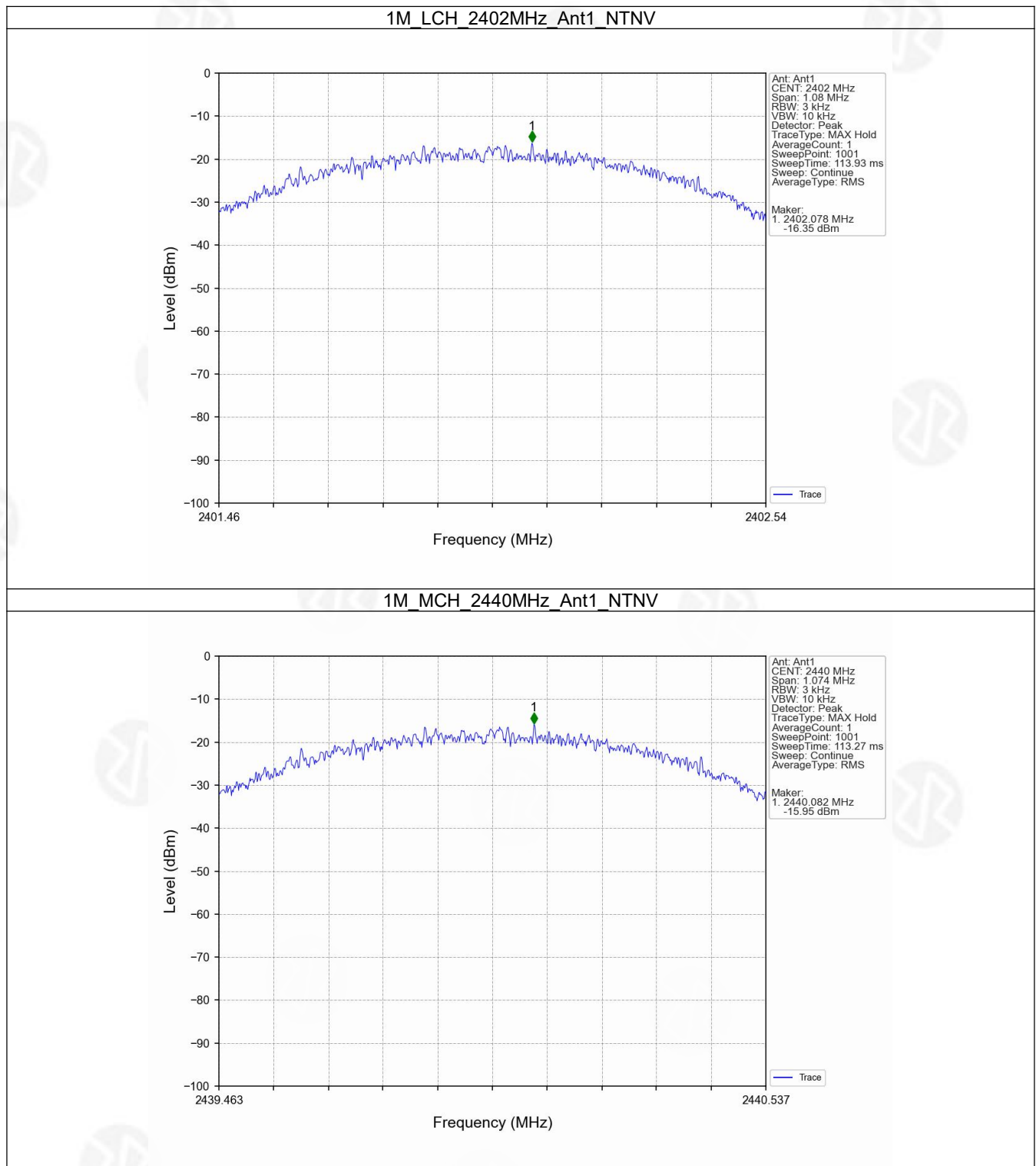
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-16.35	<=8	Pass
		2440	-15.95	<=8	Pass
		2480	-16.05	<=8	Pass

Note1: Antenna Gain: Ant1: 2.26dBi;



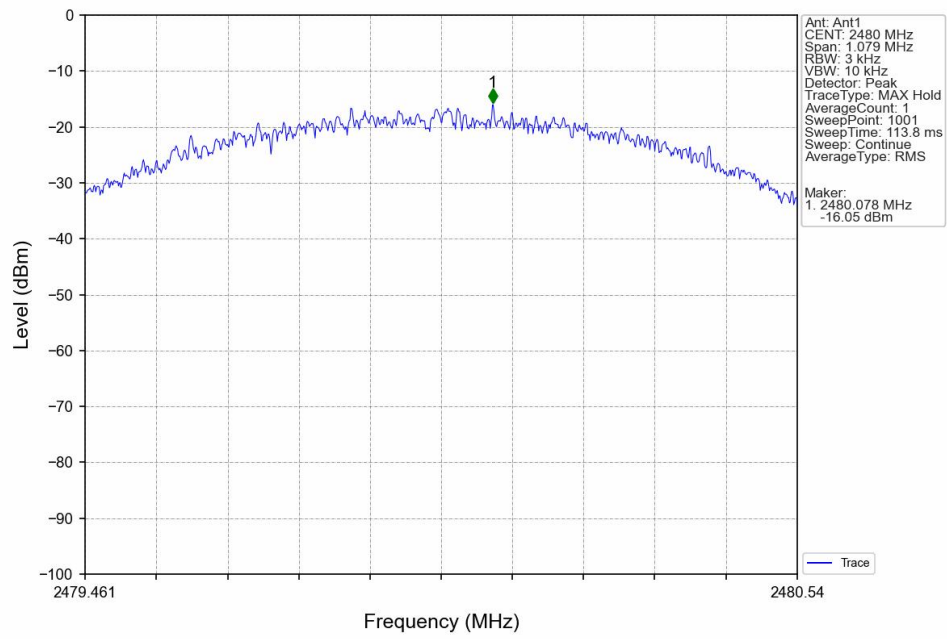
3.2 Test Graph

3.2.1 PSD





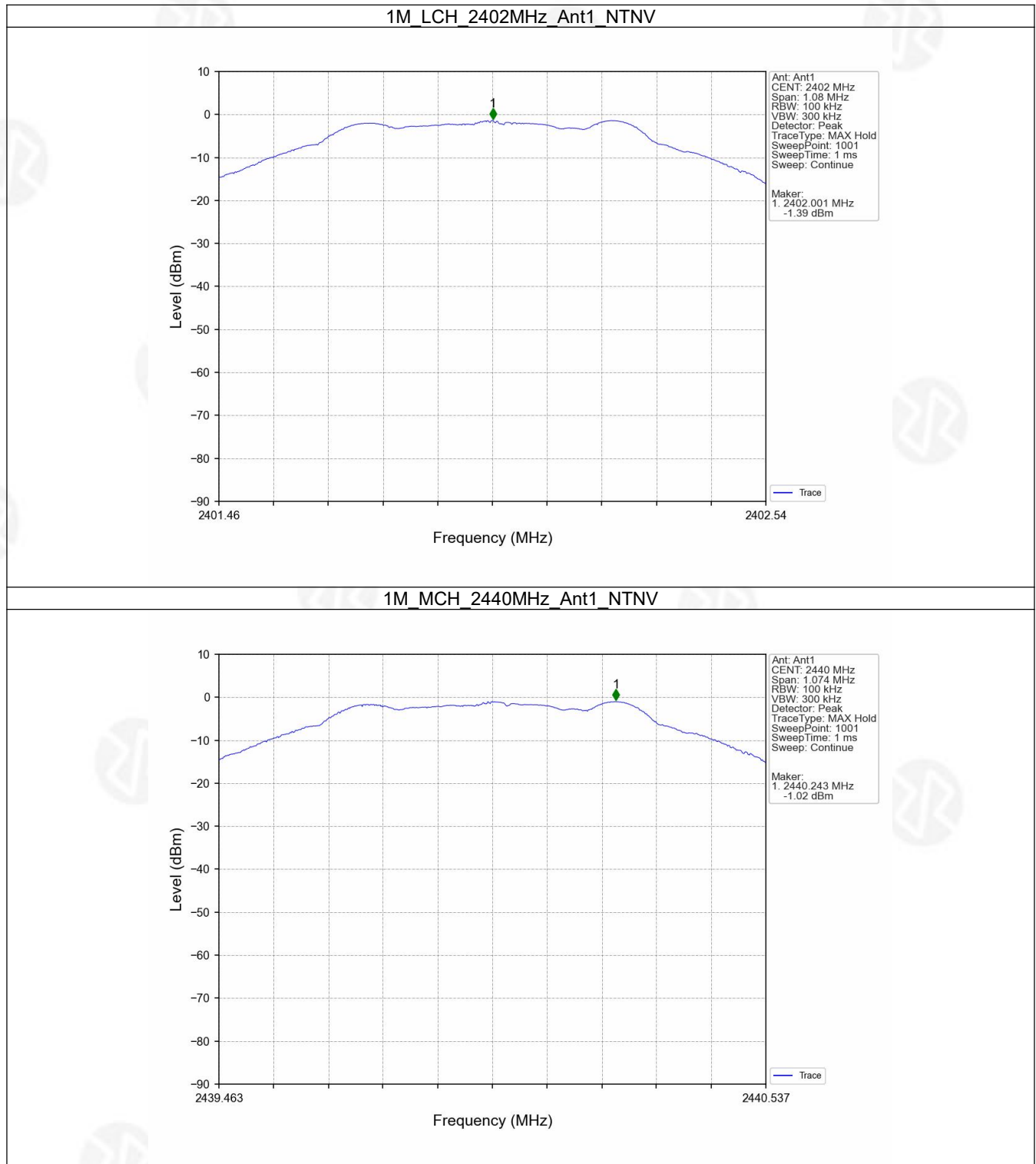
1M_HCH_2480MHz_Ant1_NTNV





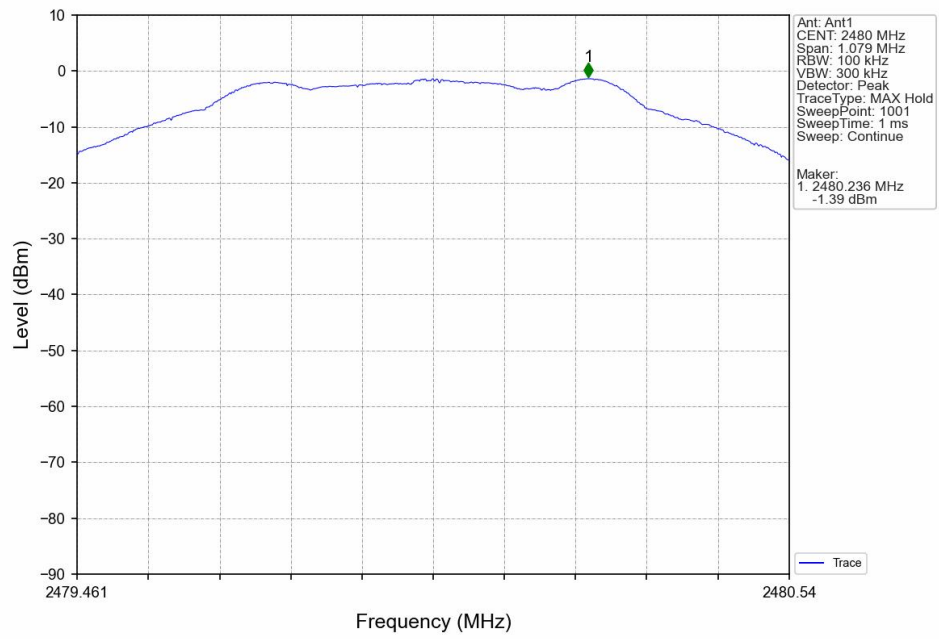
4.2 Test Graph

4.2.1 Ref



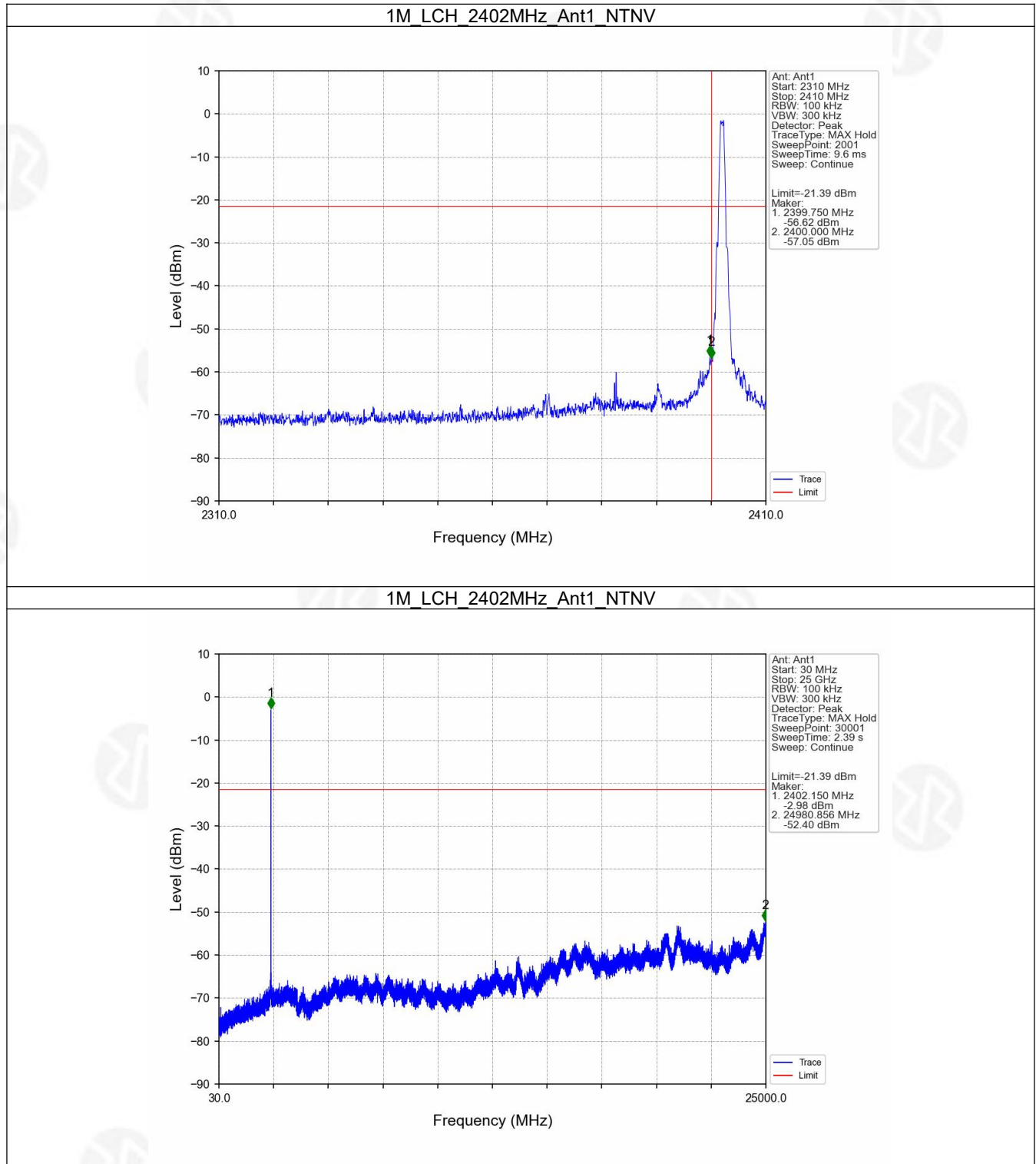


1M_HCH_2480MHz_Ant1_NTNV



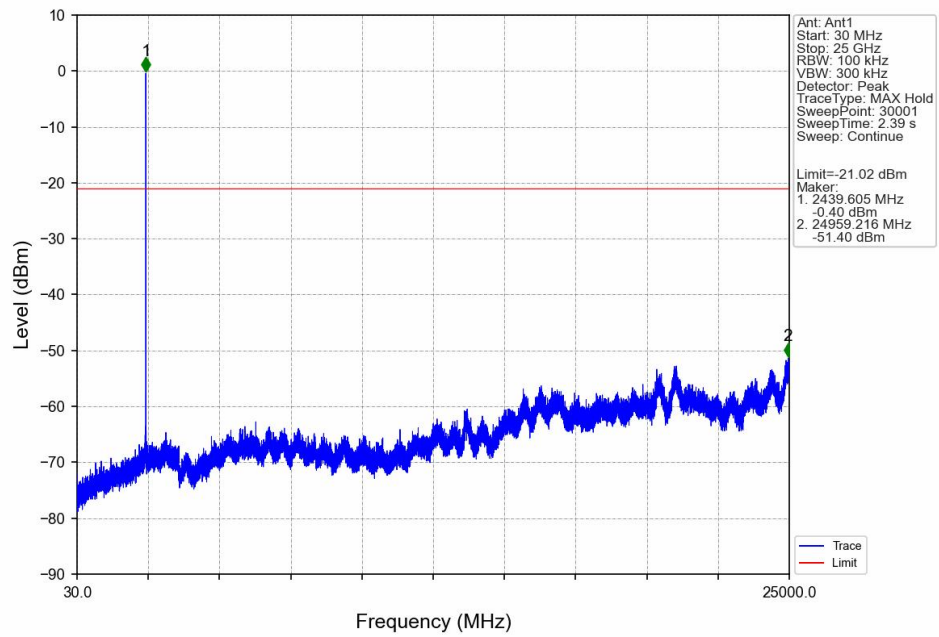


4.2.2 CSE

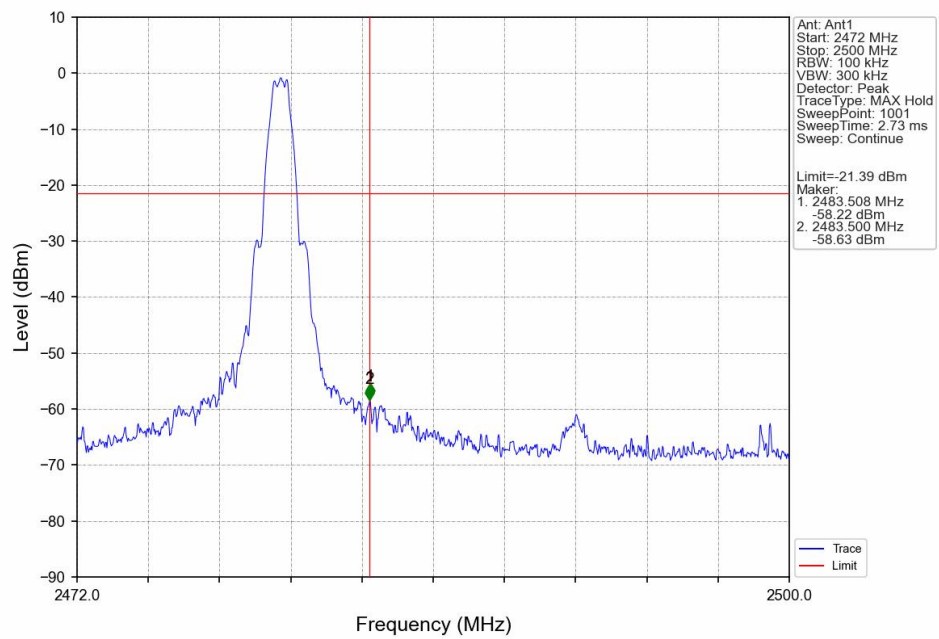




1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV





1M_HCH_2480MHz_Ant1_NTNV

