



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK251111002AE0201

RF Test Report

For BTEK251111002AE02

Project No.:	BTEK251111002AE0201
Product Description:	20.4℃, 46%, 103.4kPa
Test Engineer:	Zora
Test Date:	2025-11-20



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Test Summary

Item	Result
Frequency Error	Pass
Occupied Bandwidth	Pass
Antenna Power	Pass
Spurious Emission Intensity	Pass
Secondary Radiated Emission	Pass



1. Frequency Error

1.1 Test Result

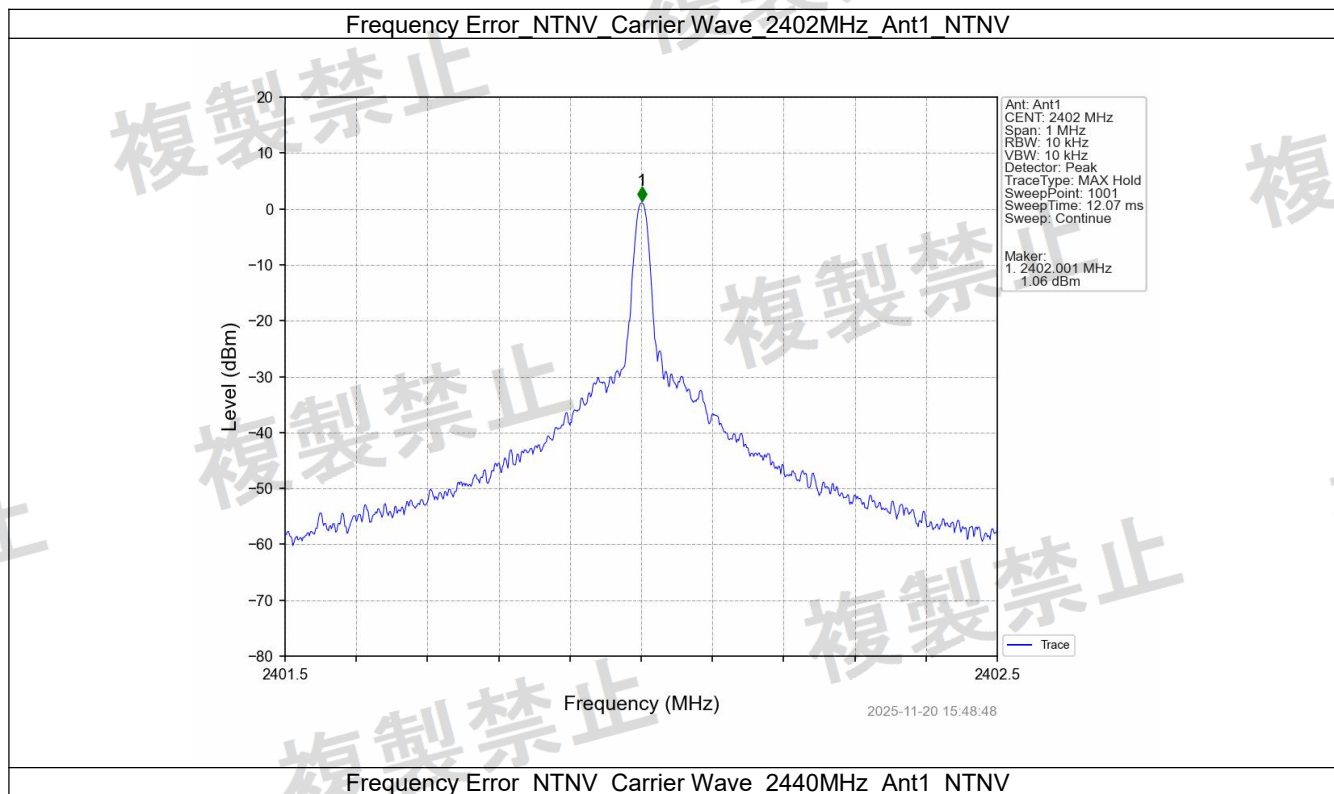
1.1.1 Ant1

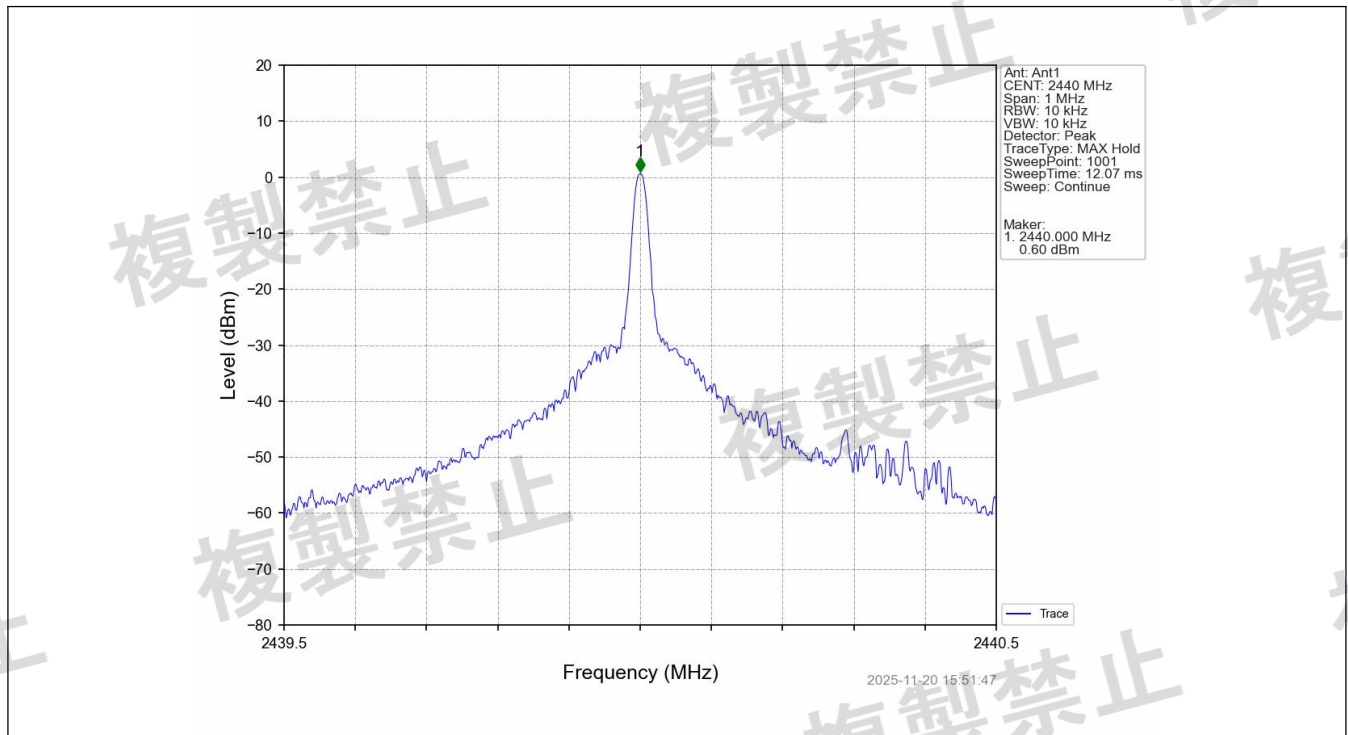
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	2402	2402.001	0.42	-50 to 50	Pass
			2440	2440.000	0.00	-50 to 50	Pass
			2480	2480.000	0.00	-50 to 50	Pass

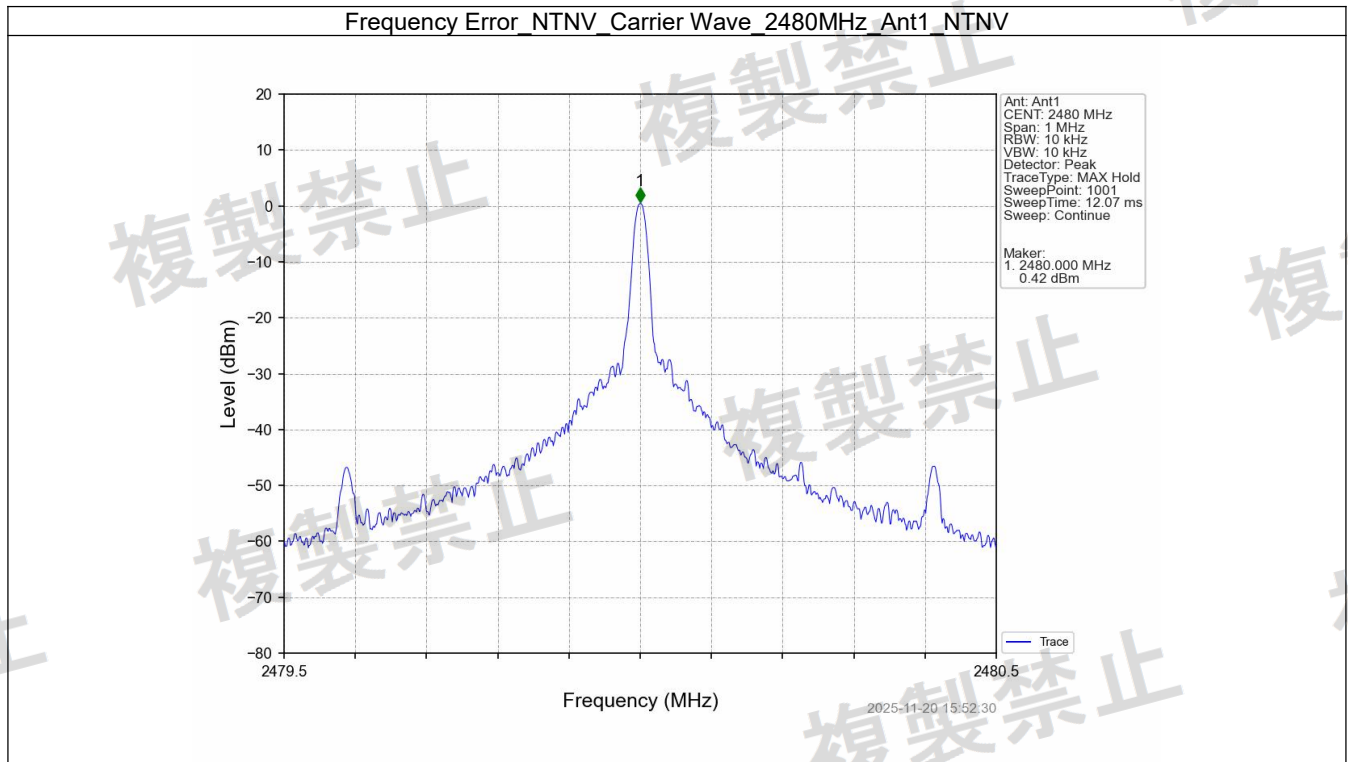


1.2 Test Graph

1.2.1 Ant1









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2. Occupied Bandwidth

2.1 Test Result

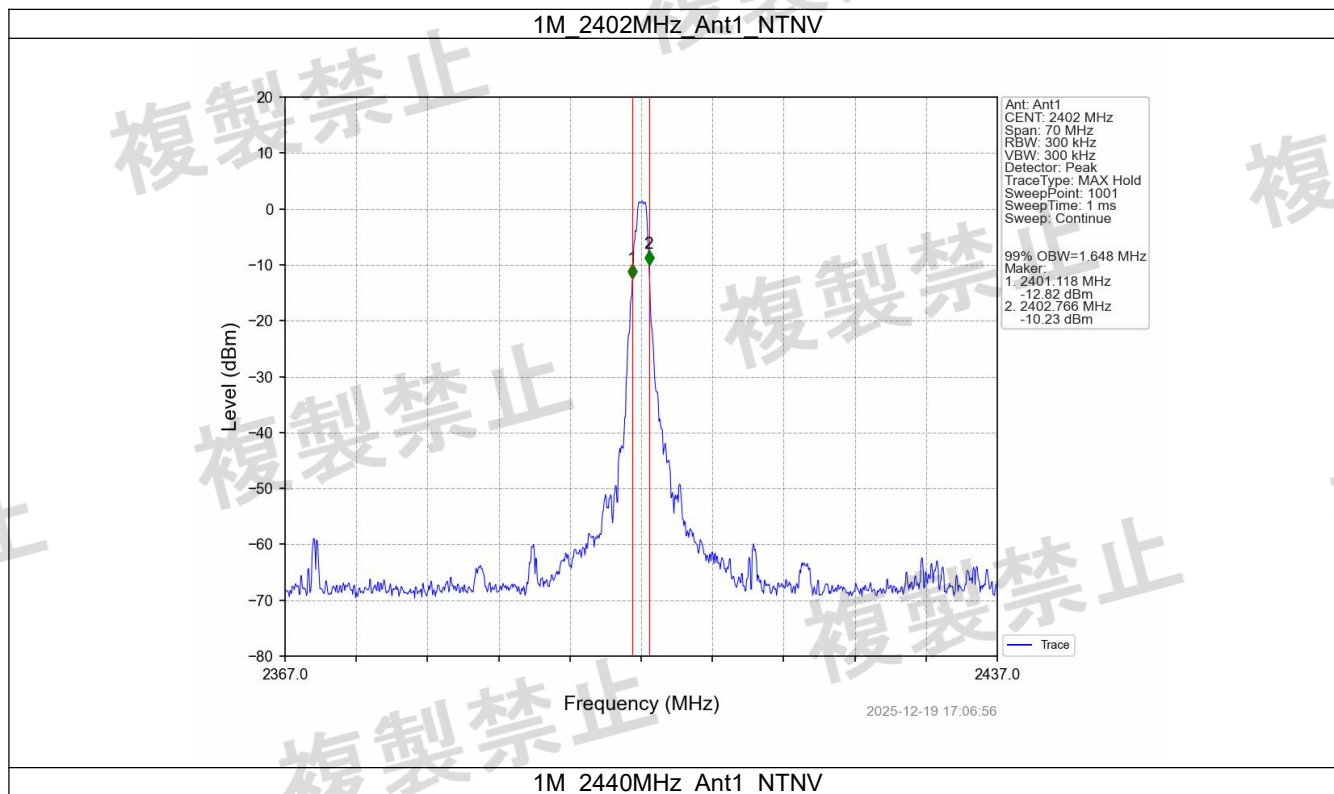
2.1.1 OBW

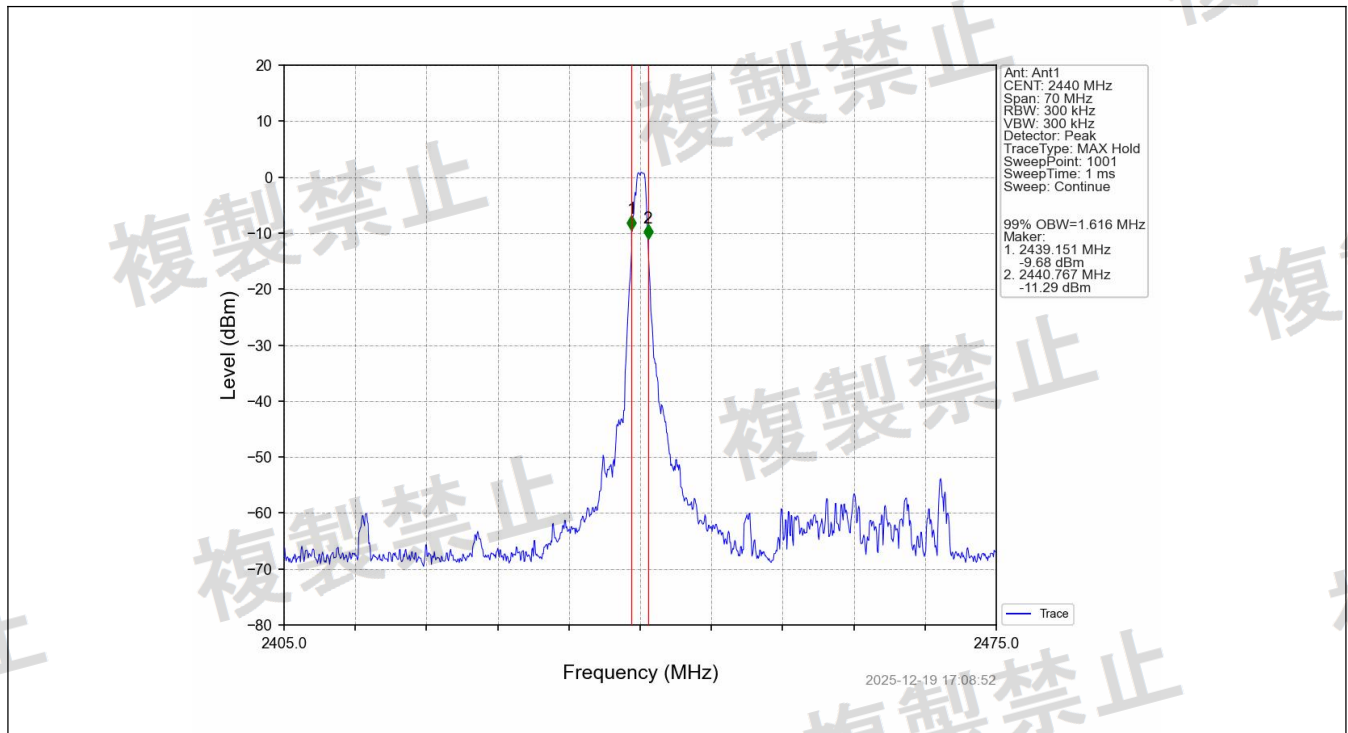
ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	1M	SISO	2402	1.648	<=26	Pass
			2440	1.616	<=26	Pass
			2480	1.566	<=26	Pass

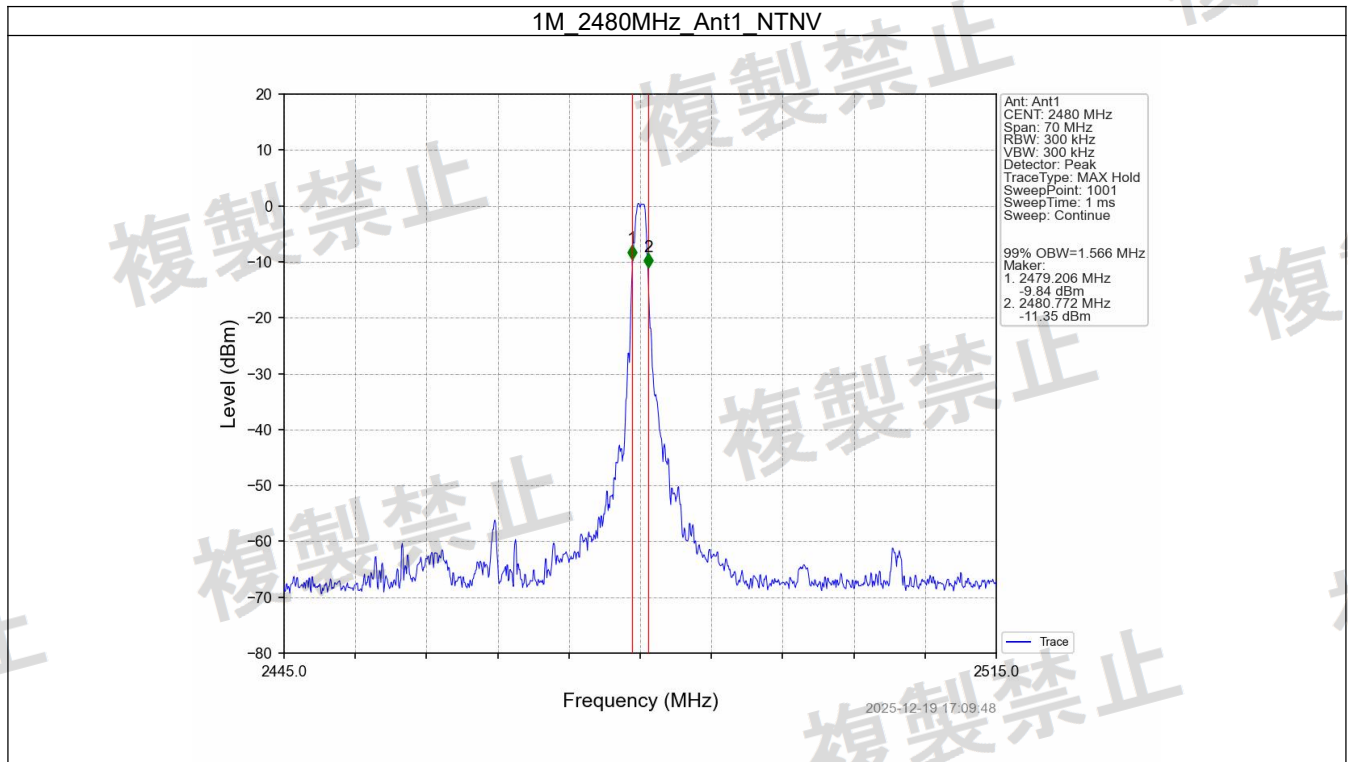


2.2 Test Graph

2.2.1 OBW









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3. Antenna Power

3.1 Test Result

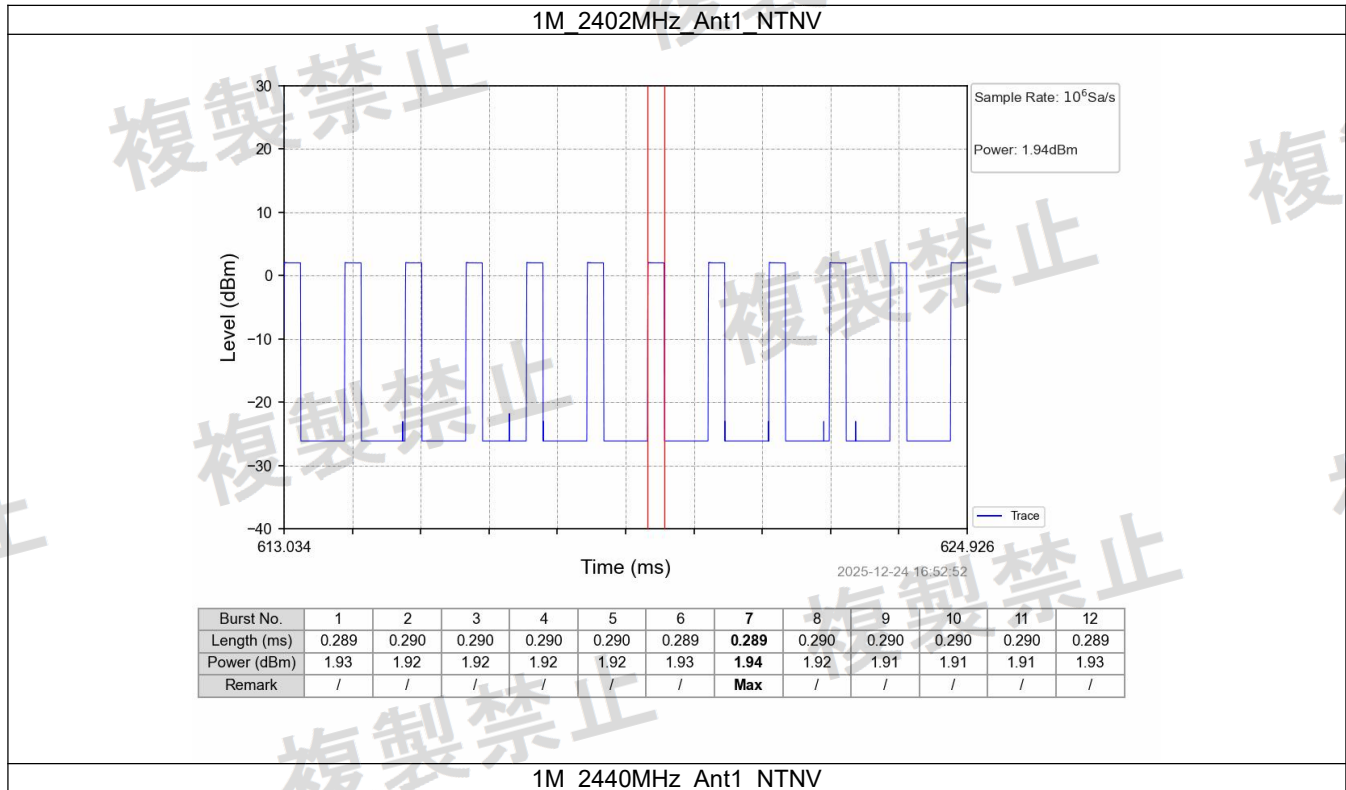
3.1.1 Power

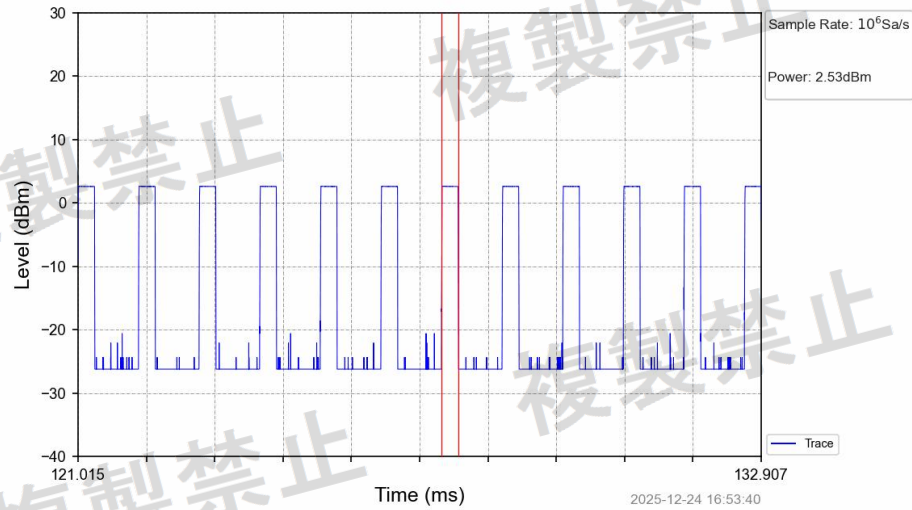
ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (dBm)	Antenna Power (mW)		Nominal Power (mW)	Tolerance (%)		Verdict
						Measured	Limit		Measured	Limit	
NTNV	1M	SISO	2402	1	1.94	1.563	≤ 10.00	1.800	-13.17	-80 to 20	Pass
			2440	1	2.53	1.791	≤ 10.00	1.800	-0.50	-80 to 20	Pass
			2480	1	1.67	1.469	≤ 10.00	1.800	-18.39	-80 to 20	Pass



3.2 Test Graph

3.2.1 Power





Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.289	0.289	0.289	0.289	0.290	0.289	0.289	0.289	0.289	0.289	0.290	0.289
Power (dBm)	2.52	2.52	2.52	2.52	2.51	2.52	2.53	2.52	2.52	2.52	2.51	2.52
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



4. Spurious Emission Intensity

4.1 Test Result

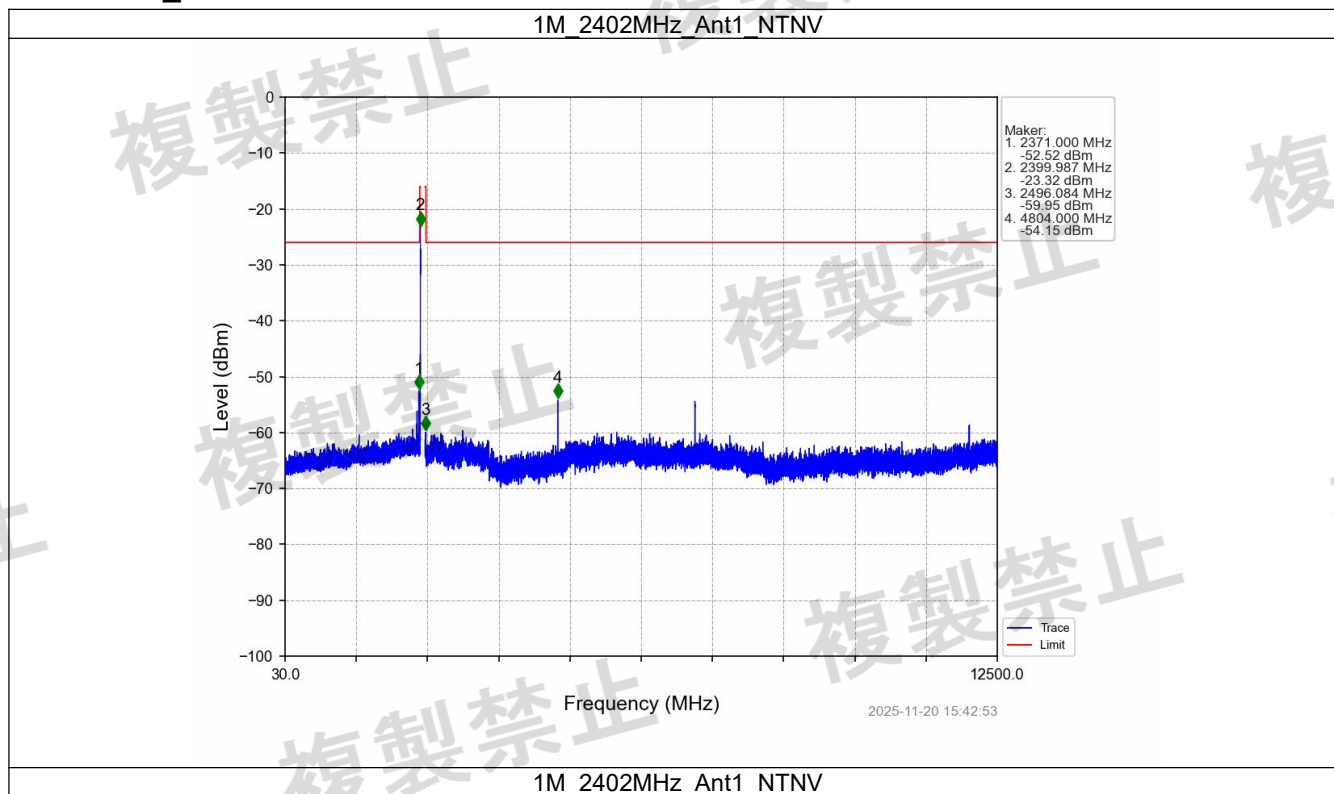
4.1.1 TxSe_NTNV

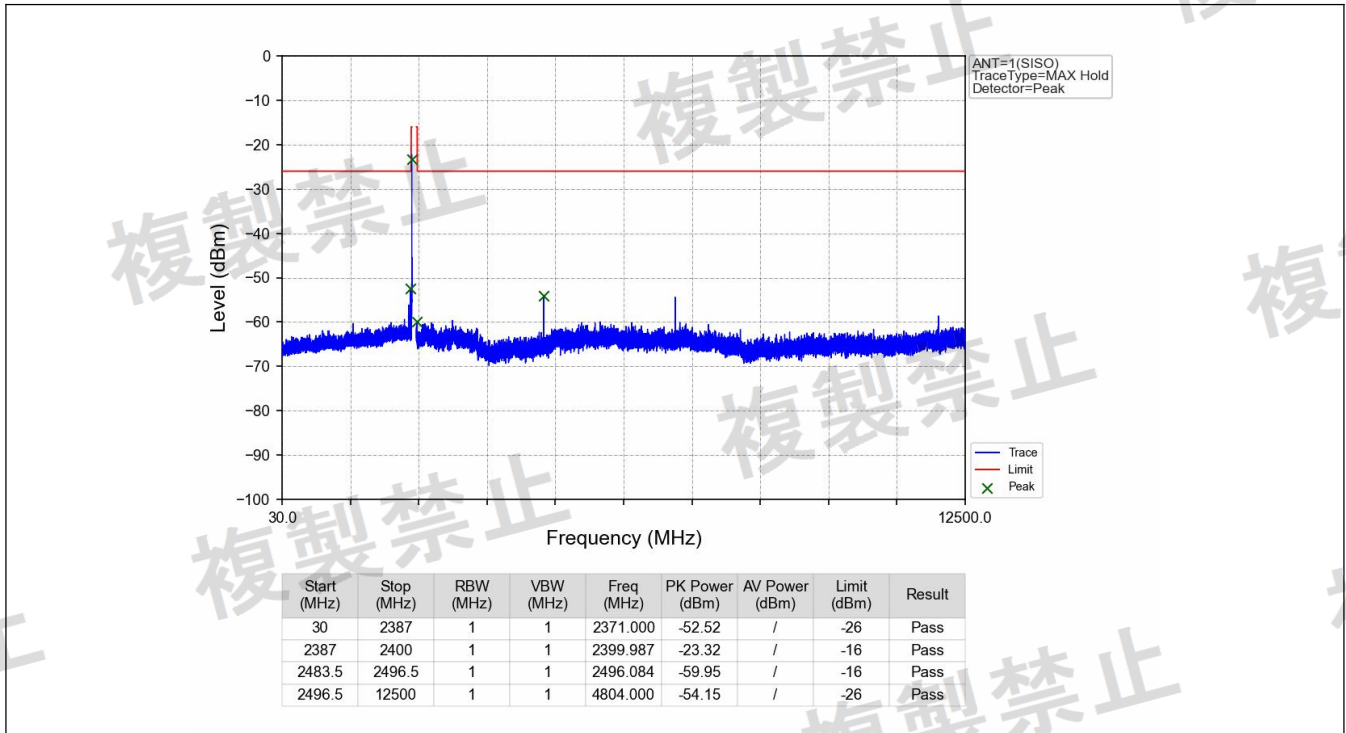
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
1M	SISO	2402	1	30	2387	2371	-52.52	0.006	/	/	2.5	Pass
				2387	2400	2399.987	-23.32	4.656	/	/	25	Pass
				2483.5	2496.5	2496.084	-59.95	0.001	/	/	25	Pass
				2496.5	12500	4804	-54.15	0.004	/	/	2.5	Pass
		2440	1	30	2387	2372	-59.82	0.001	/	/	2.5	Pass
				2387	2400	2392.512	-60.63	0.001	/	/	25	Pass
				2483.5	2496.5	2485.229	-59.99	0.001	/	/	25	Pass
				2496.5	12500	5243.5	-41.42	0.072	/	/	2.5	Pass
		2480	1	30	2387	2006.5	-51.11	0.008	/	/	2.5	Pass
				2387	2400	2387.936	-59.52	0.001	/	/	25	Pass
				2483.5	2496.5	2483.578	-43.89	0.041	/	/	25	Pass
				2496.5	12500	7440	-53.83	0.004	/	/	2.5	Pass

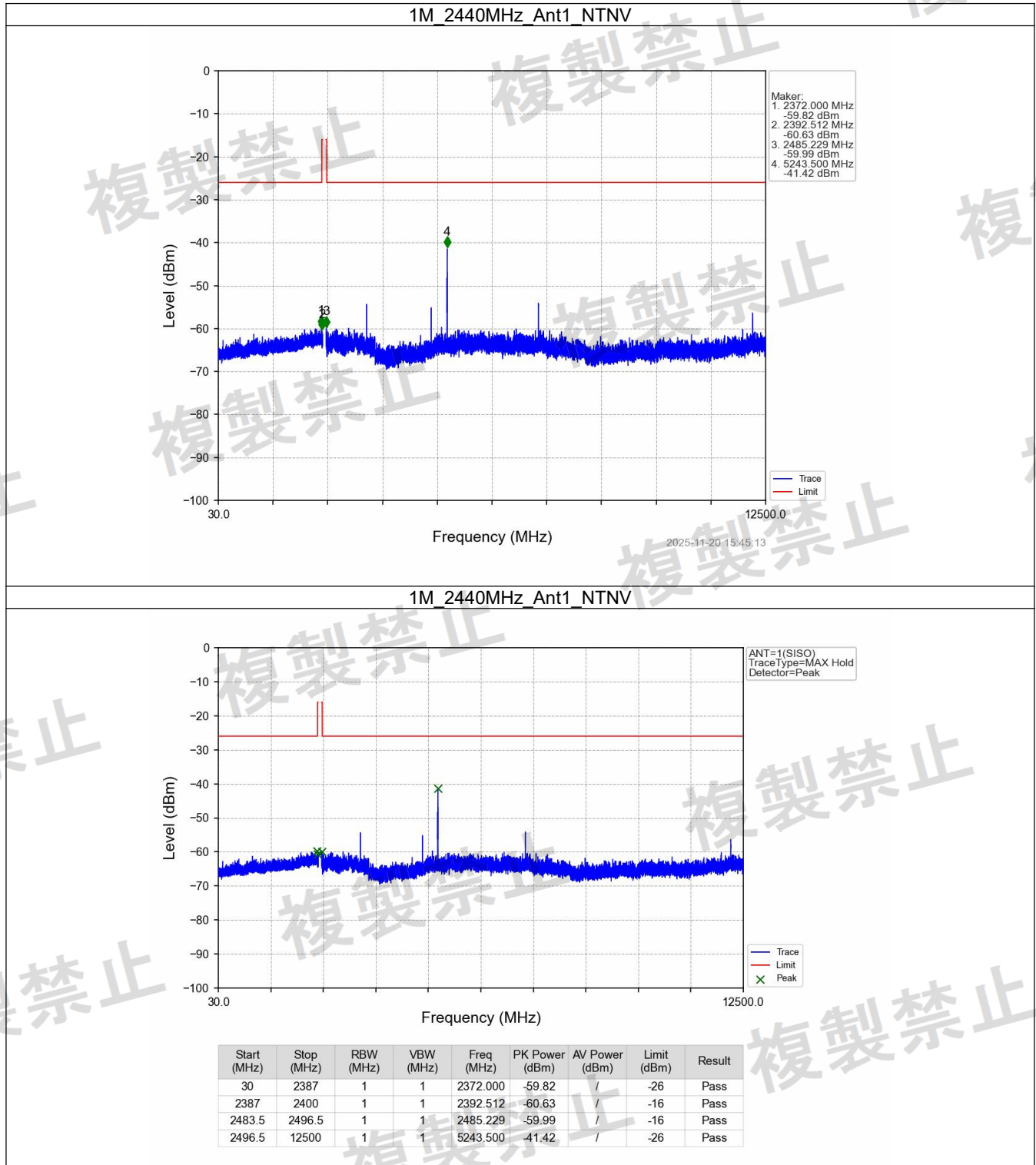


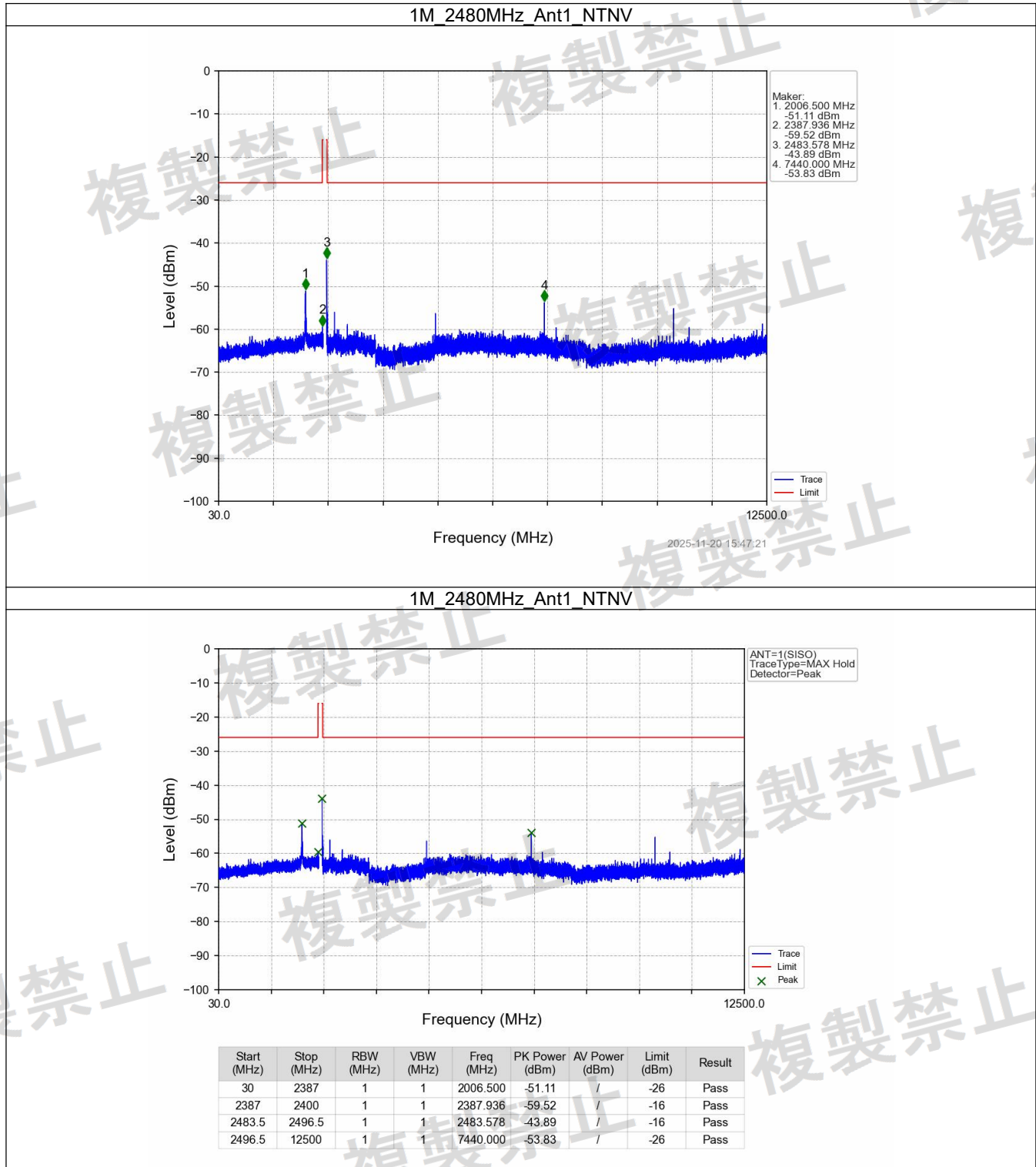
4.2 Test Graph

4.2.1 TxSe_NTNV











5. Secondary Radiated Emission

5.1 Test Result

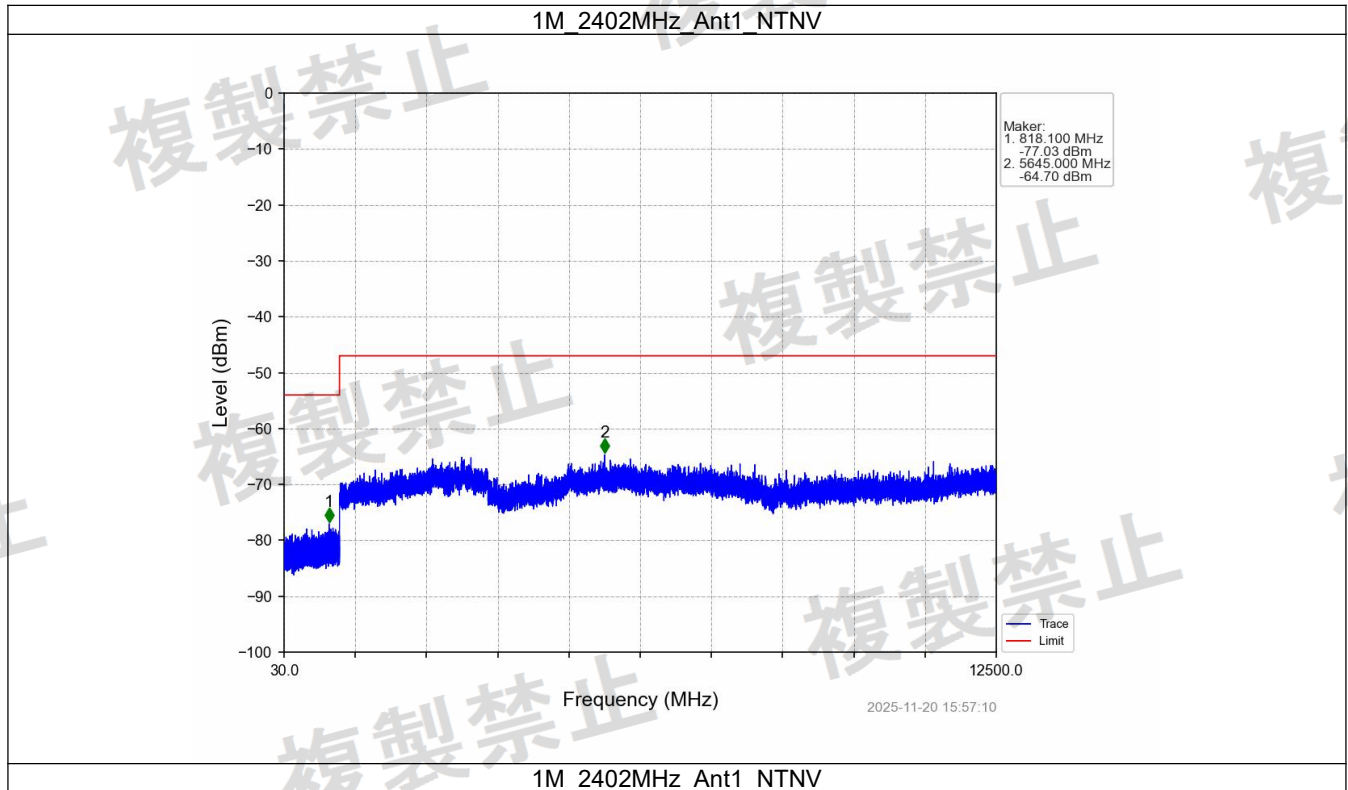
5.1.1 RxSe_NTNV

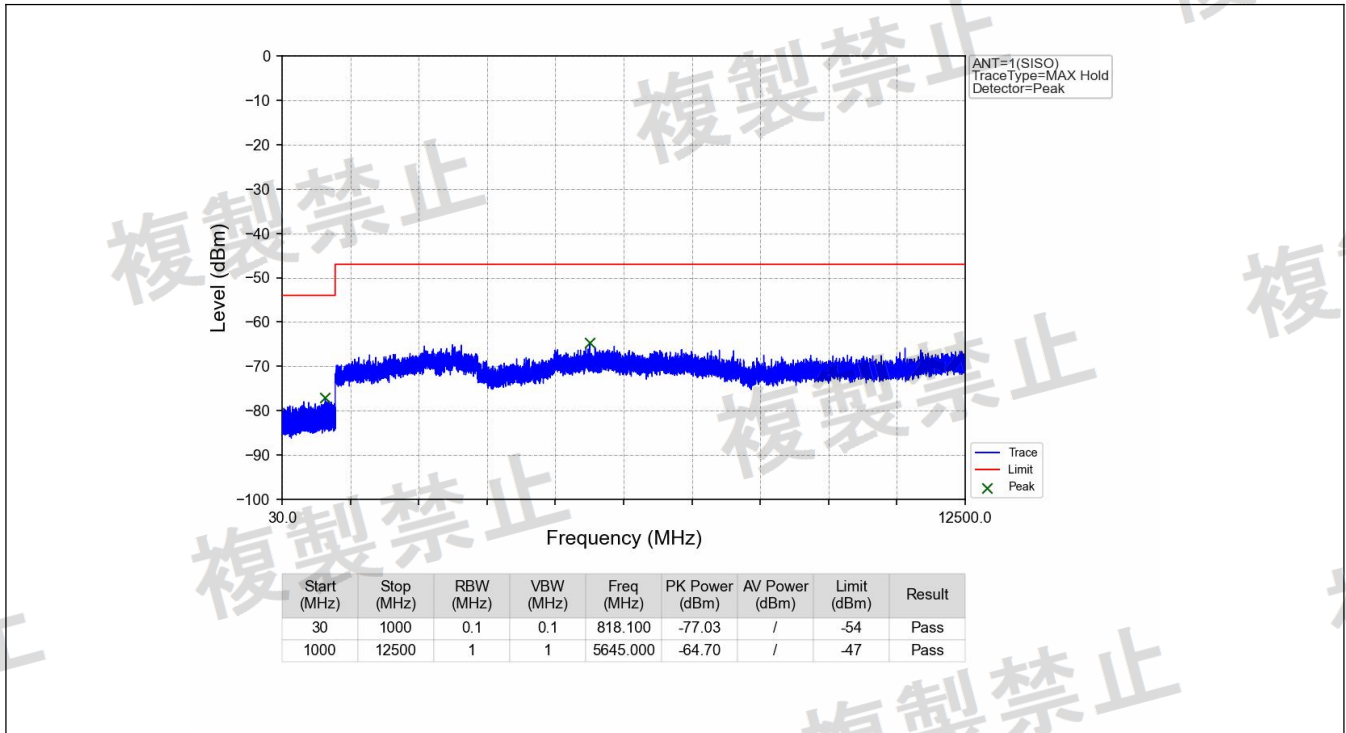
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
1M	SISO	2402	1	30	1000	818.1	-77.03	0.020	/	/	4	Pass
				1000	12500	5645	-64.70	0.339	/	/	20	Pass
		2440	1	30	1000	840.55	-77.91	0.016	/	/	4	Pass
				1000	12500	5272	-65.42	0.287	/	/	20	Pass
		2480	1	30	1000	830.6	-77.61	0.017	/	/	4	Pass
				1000	12500	5041	-64.30	0.372	/	/	20	Pass



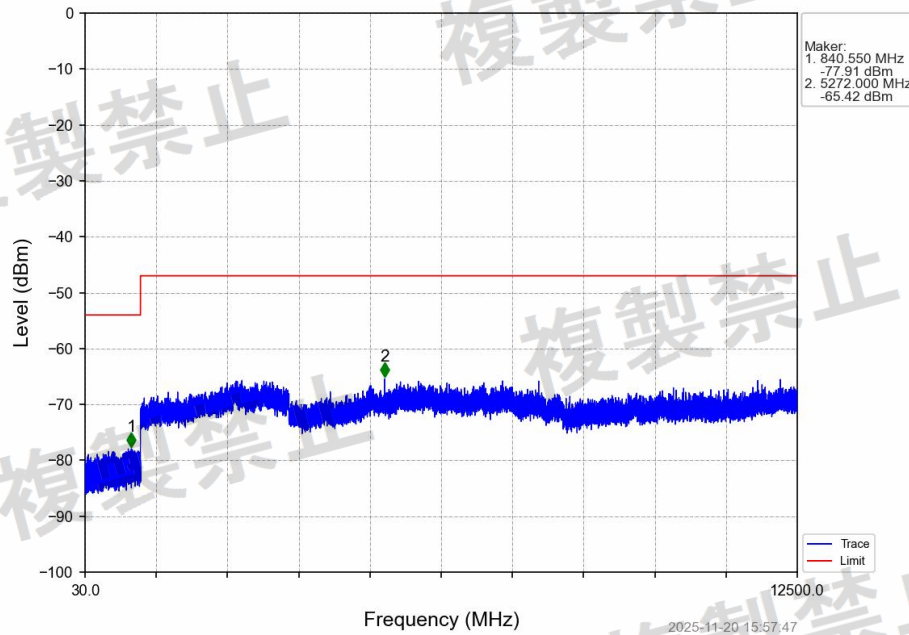
5.2 Test Graph

5.2.1 RxSe_NTNV

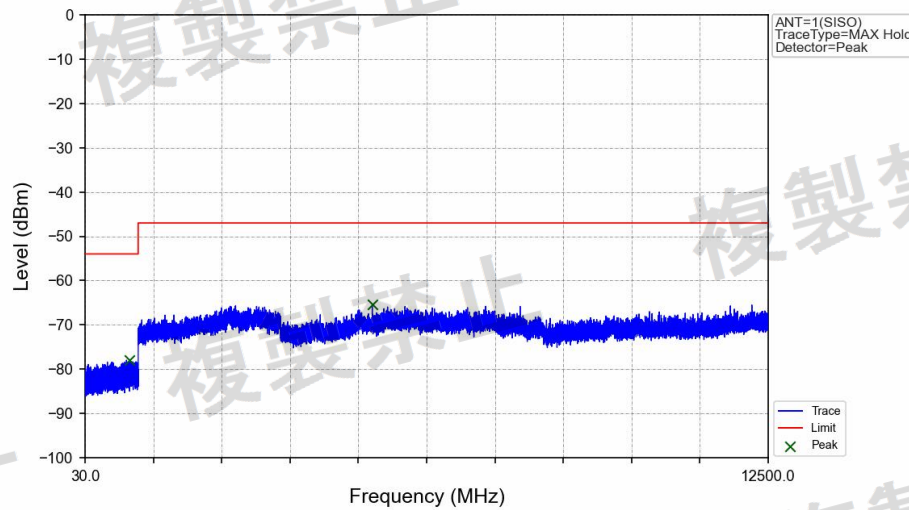




1M_2440MHz_Ant1_NTNV



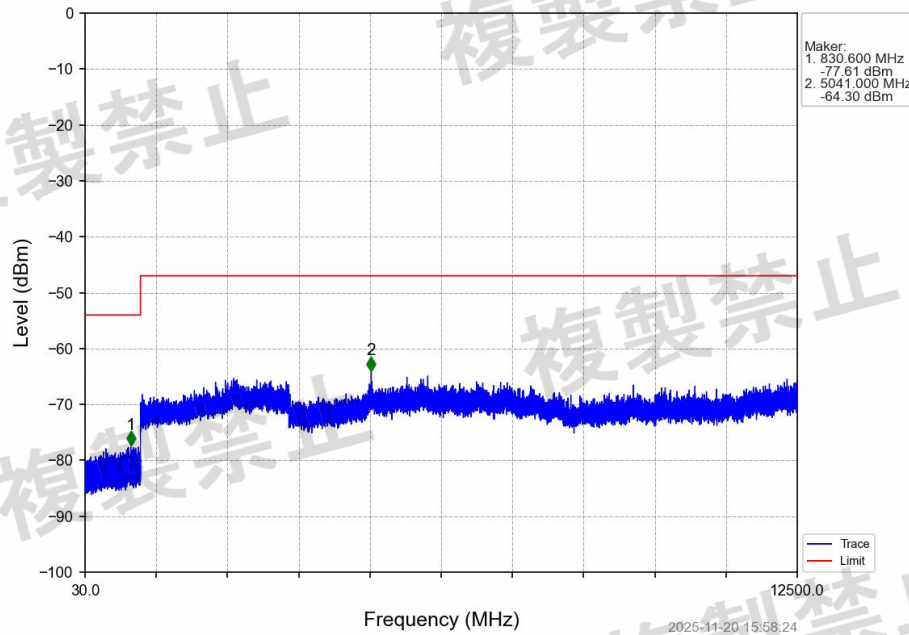
1M_2440MHz_Ant1_NTNV



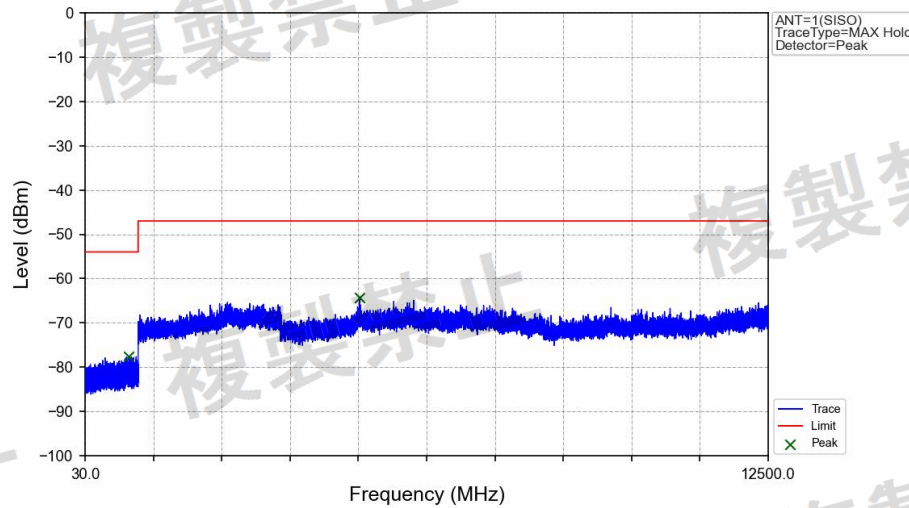
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	840.550	-77.91	/	-54	Pass
1000	12500	1	1	5272.000	-65.42	/	-47	Pass



1M_2480MHz_Ant1_NTNV



1M_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	830.600	-77.61	/	-54	Pass
1000	12500	1	1	5041.000	-64.30	/	-47	Pass