

RF Test Data For

Project No.:	26CST070018M02
Client:	Shenzhen Mloong Digital Co.,Ltd.
Manufacturer:	Shenzhen Mloong Digital Co.,Ltd.
Product Description:	Wireless Mouse
Model No.:	MX301
Test Engineer:	Jun Li
Test Date:	2026-07-23

Test Summary

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

1. Frequency Error

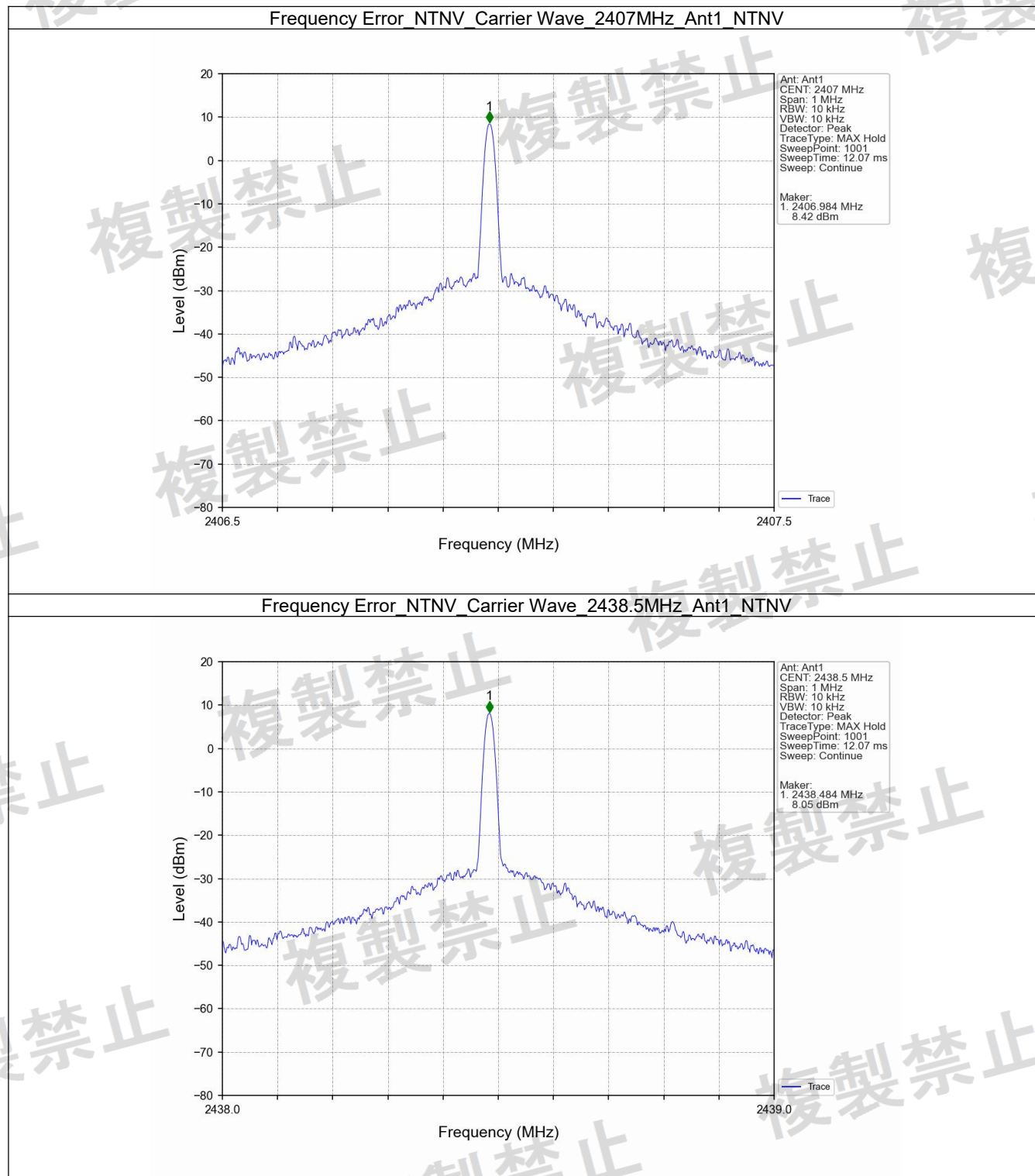
1.1 Test Result

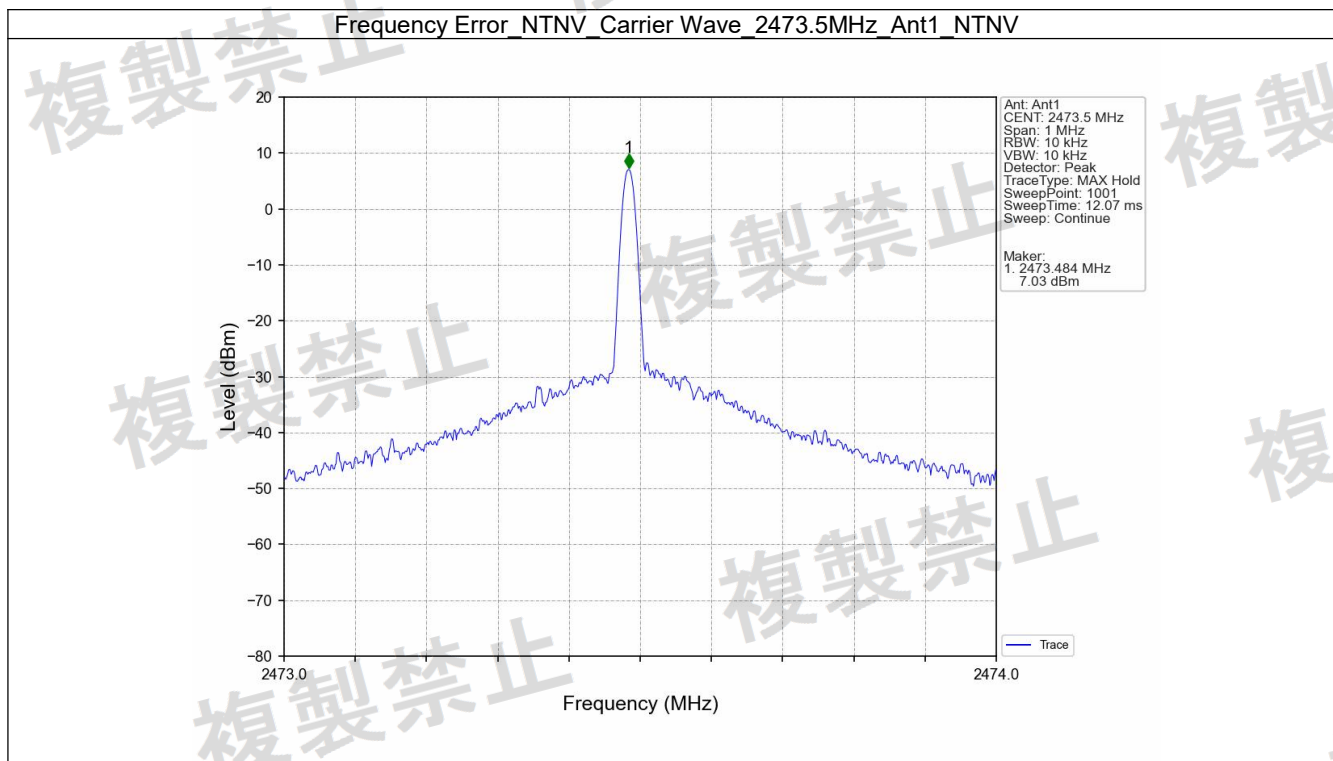
1.1.1 Ant1

Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	2407	2406.984	-6.65	-50 to 50	Pass
			2438.5	2438.484	-6.56	-50 to 50	Pass
			2473.5	2473.484	-6.47	-50 to 50	Pass

1.2 Test Graph

1.2.1 Ant1





2. Occupied Bandwidth

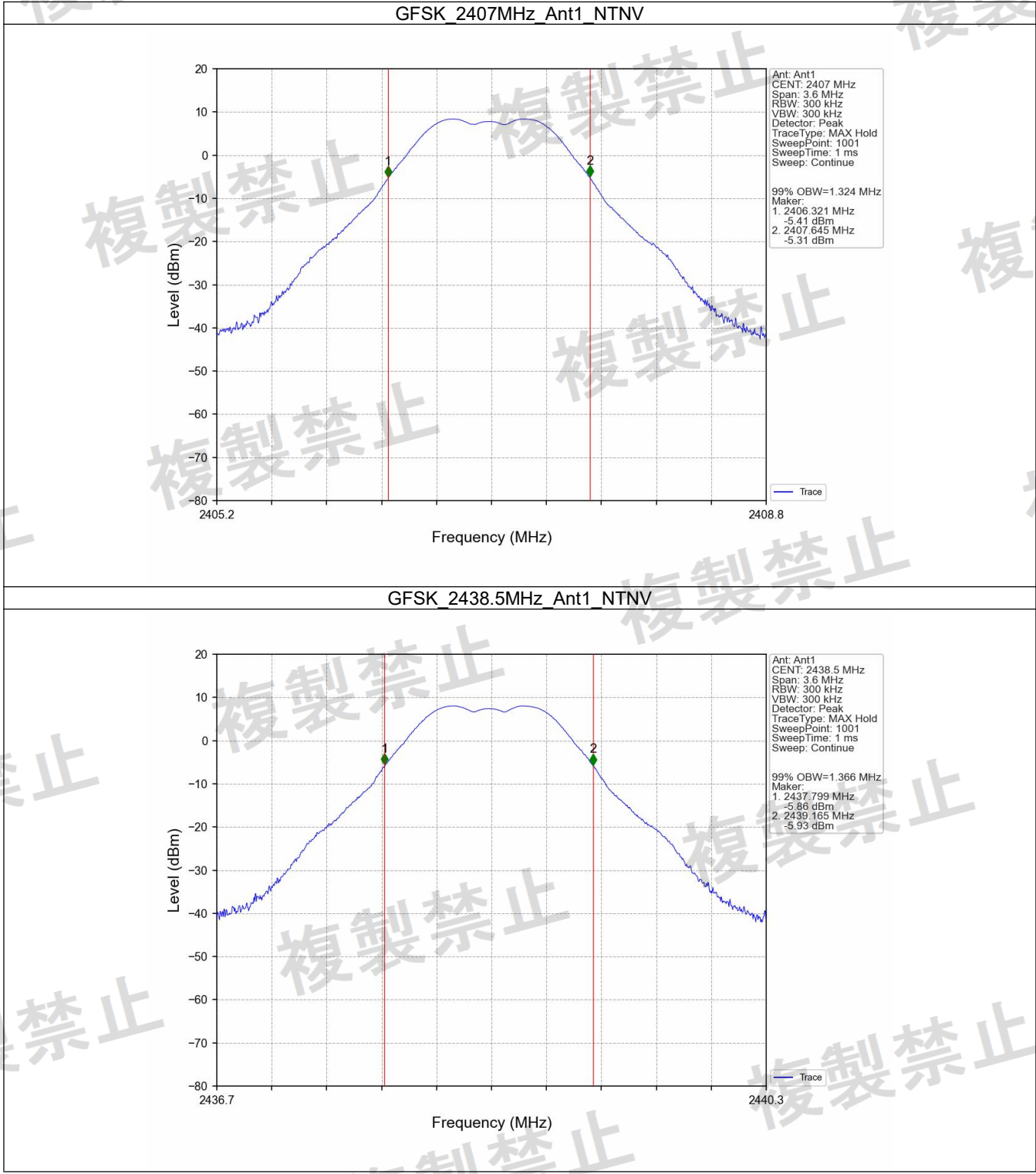
2.1 Test Result

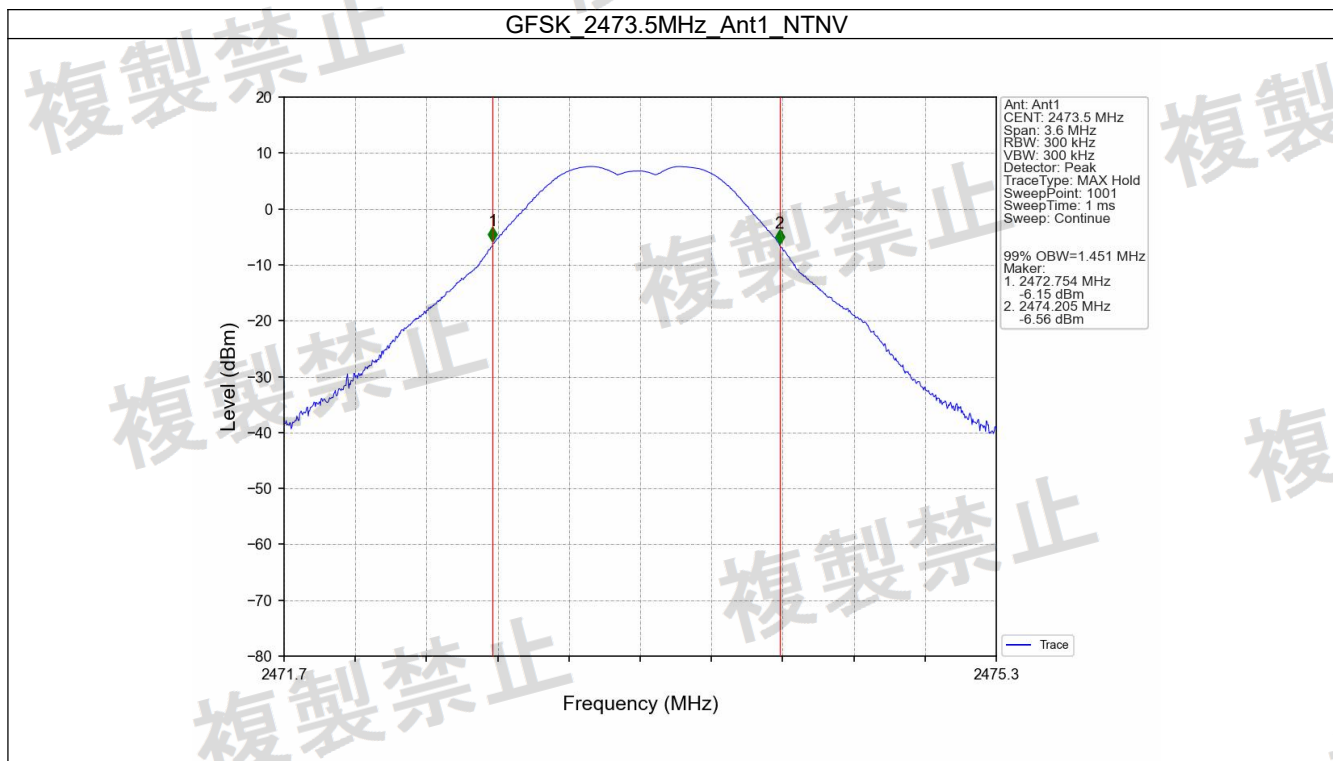
2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	GFSK	SISO	2407	1.324	≤ 26	Pass
			2438.5	1.366	≤ 26	Pass
			2473.5	1.451	≤ 26	Pass

2.2 Test Graph

2.2.1 OBW





3. Spread Bandwidth

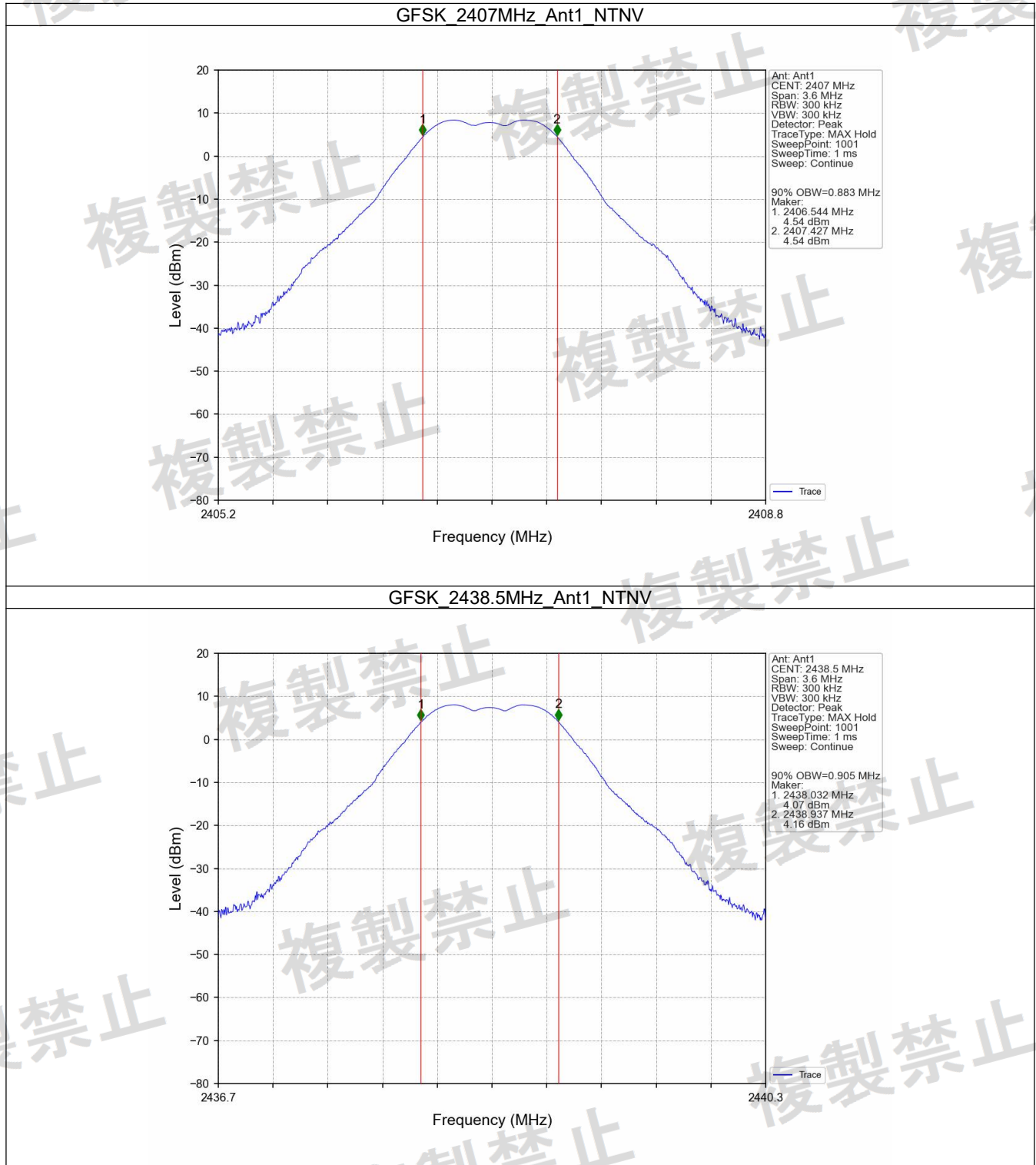
3.1 Test Result

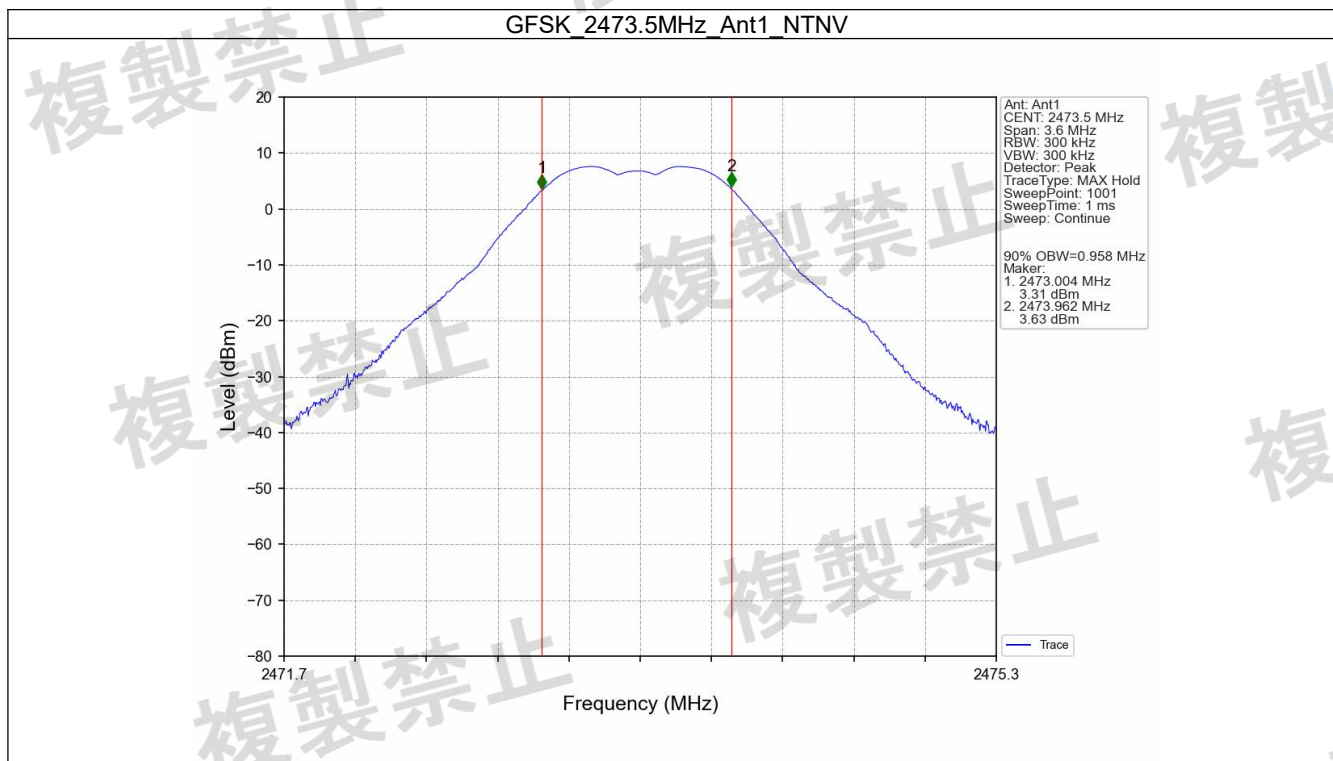
3.1.1 SPBW

ENV	Mode	TX Type	Frequency (MHz)	Spread Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	GFSK	SISO	2407	0.883	≥ 0.5	Pass
			2438.5	0.905	≥ 0.5	Pass
			2473.5	0.958	≥ 0.5	Pass

3.2 Test Graph

3.2.1 SPBW





4. Antenna Power

4.1 Test Result

4.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW)		Nominal Power (mW)	Tolerance (%)		Verdict
					Measured	Limit		Measured	Limit	
NTNV	GFSK	SISO	2407	1	6.054	≤ 10.00	6.100	-0.75	20	Pass
			2438.5	1	5.359	≤ 10.00	6.100	-12.15	20	Pass
			2473.5	1	4.566	≤ 10.00	6.100	-25.15	20	Pass

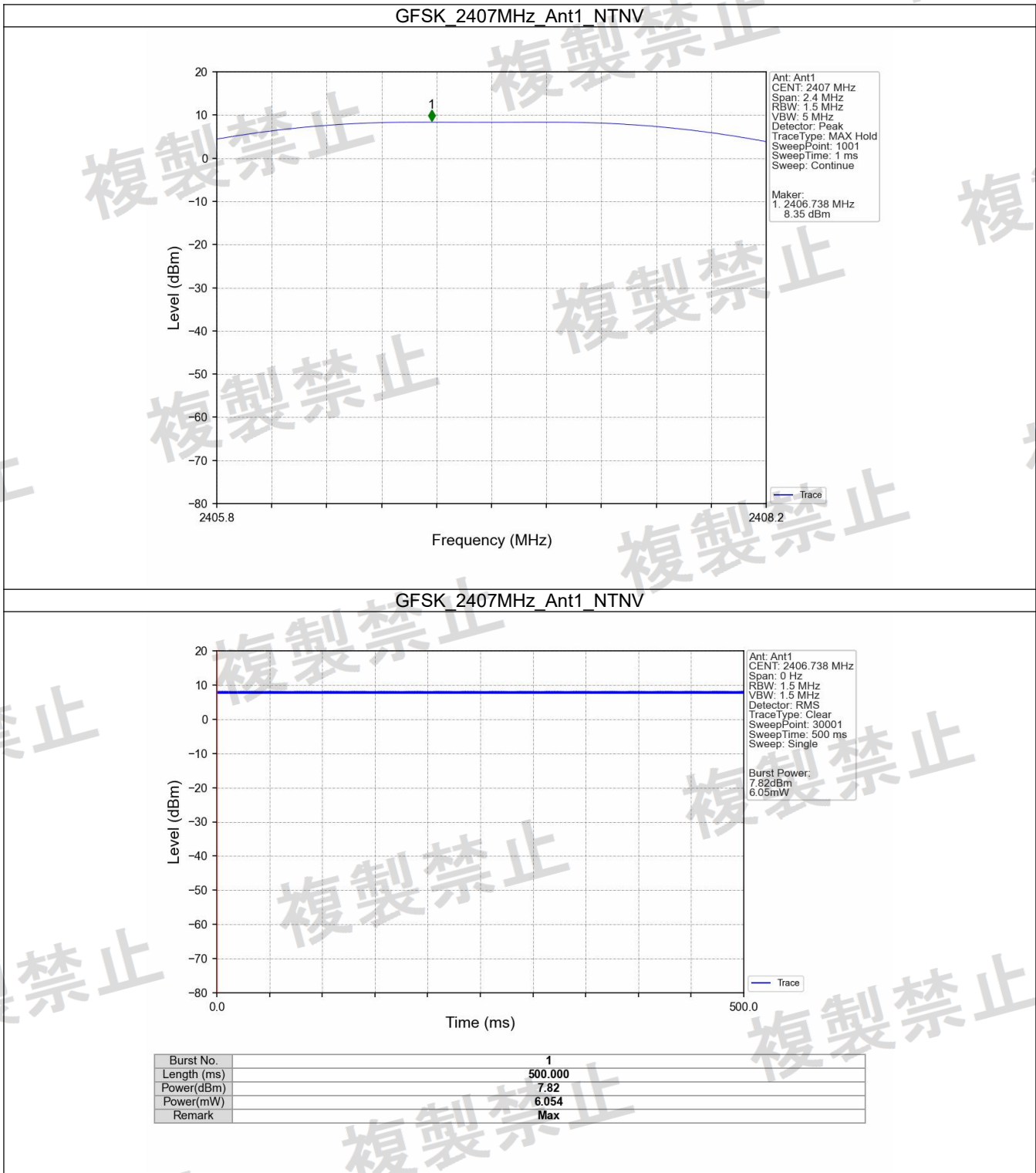
4.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	EIRP (dBm)		Verdict
						Result	Limit	
NTNV	GFSK	SISO	2407	1	2.34	10.16	≤ 12.14	Pass
			2438.5	1	2.34	9.63	≤ 12.14	Pass
			2473.5	1	2.34	8.94	≤ 12.14	Pass

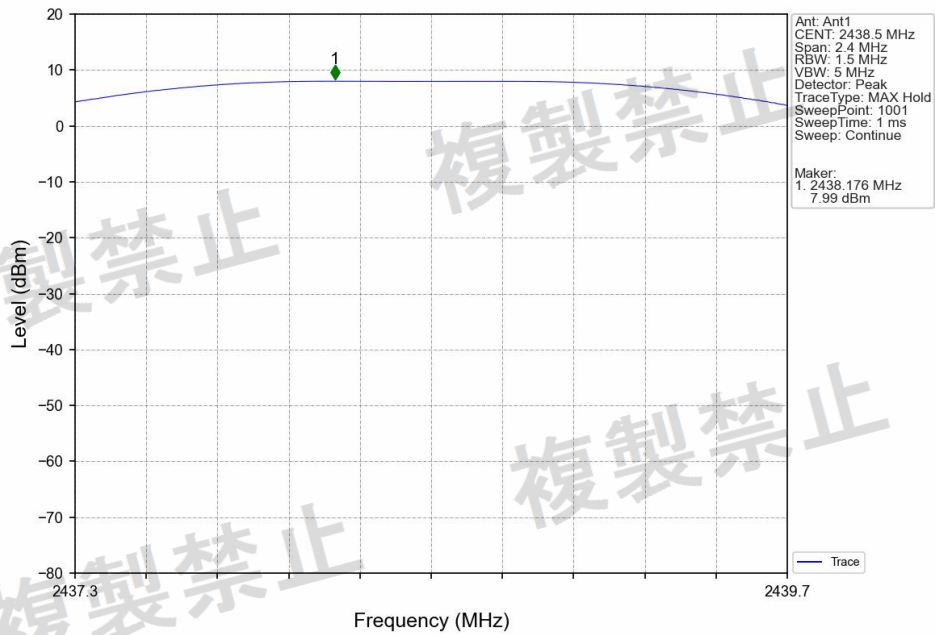
Note: EIRP (dBm) = Antenna Power (dBm) + Gain (dBi)

4.2 Test Graph

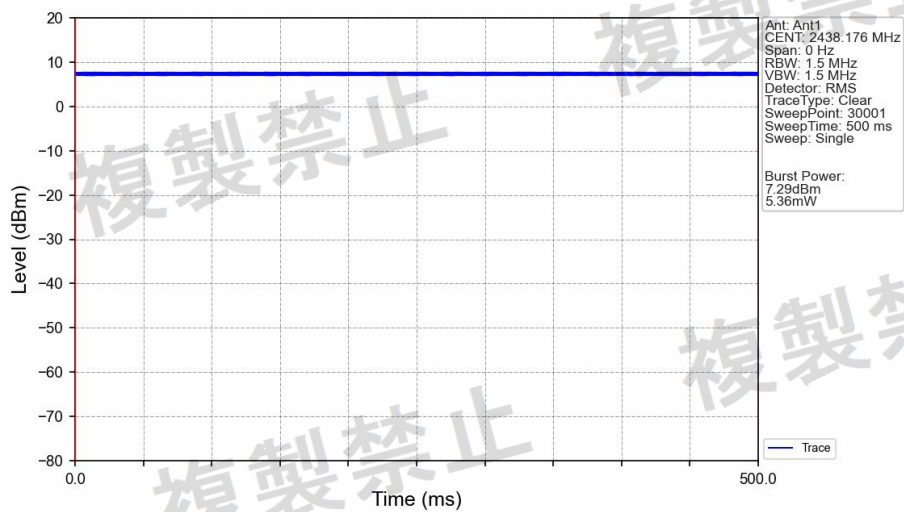
4.2.1 Power



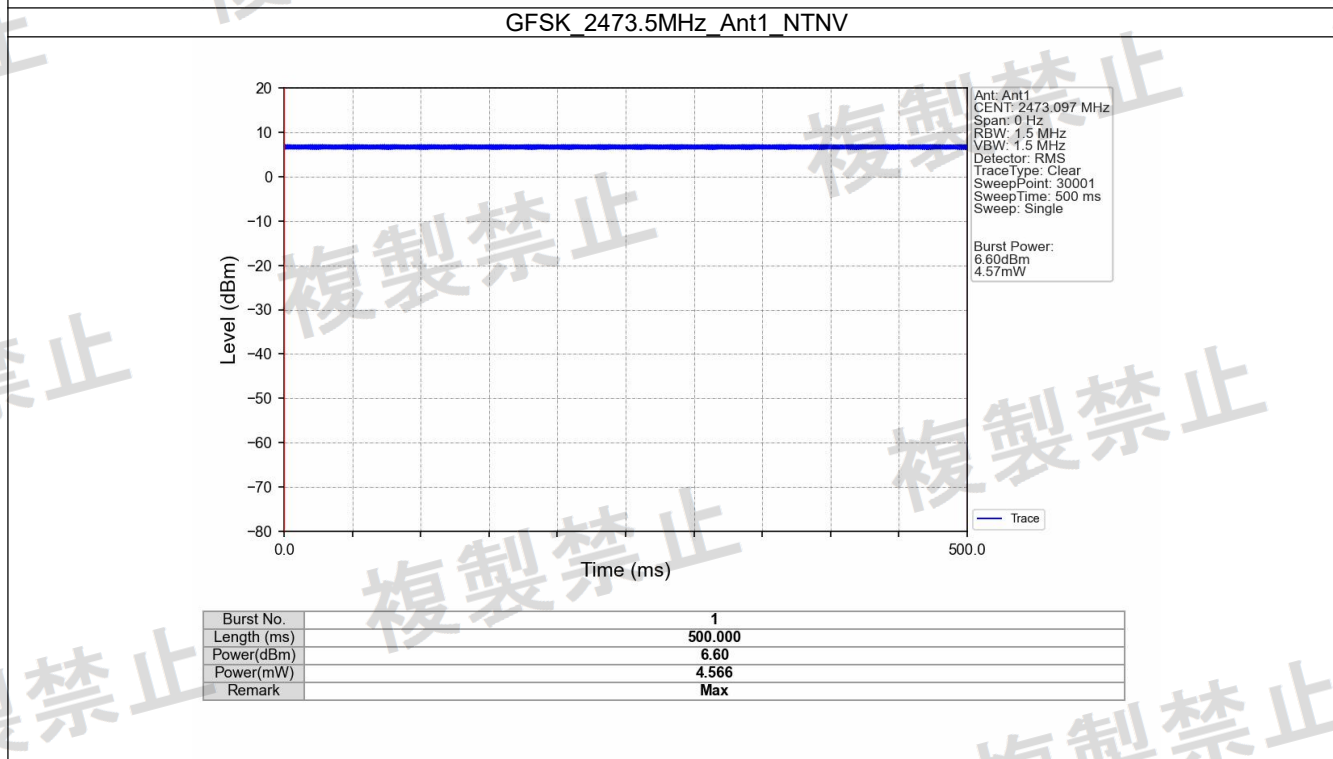
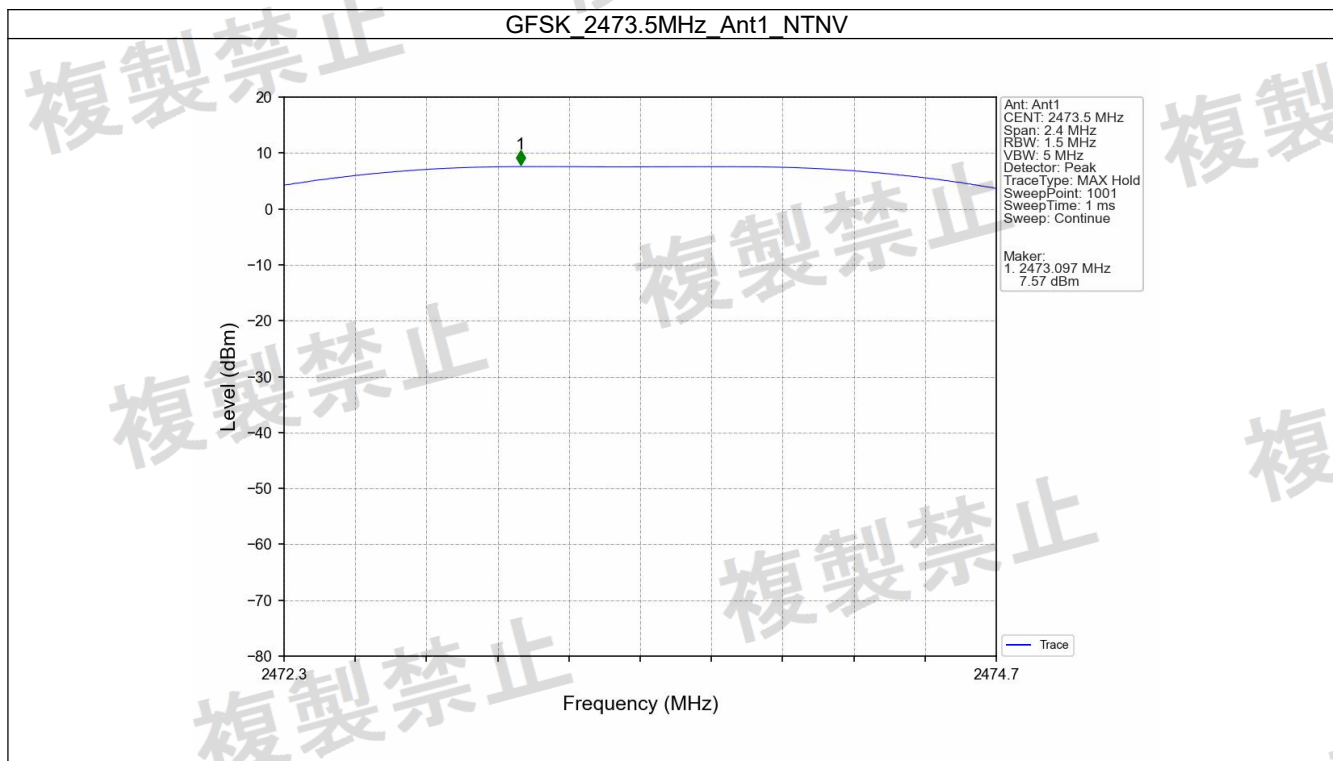
GFSK_2438.5MHz_Ant1_NTNV



GFSK_2438.5MHz_Ant1_NTNV



Burst No.	1
Length (ms)	500.000
Power(dBm)	7.29
Power(mW)	5.359
Remark	Max



5. Spurious Emission Intensity

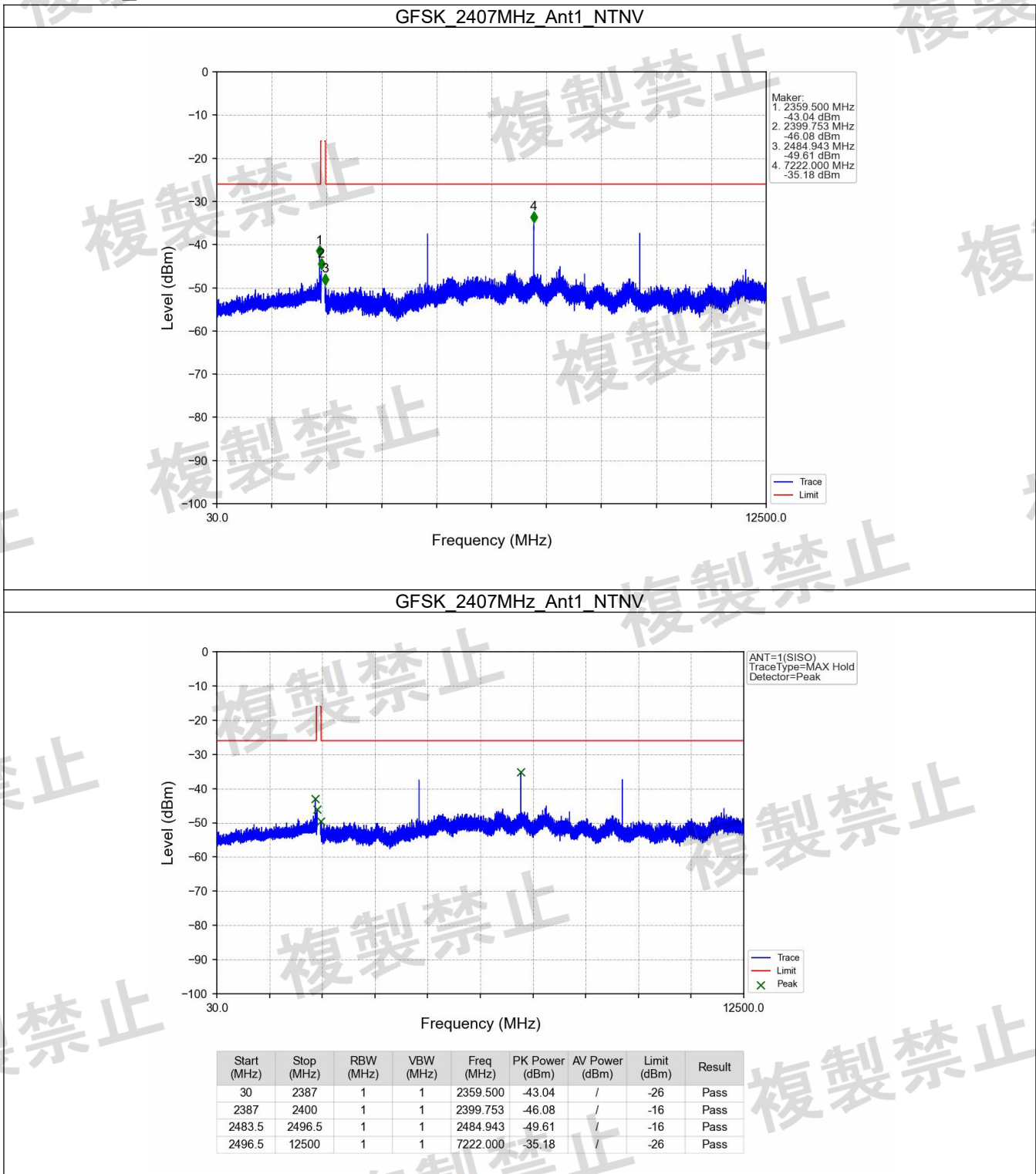
5.1 Test Result

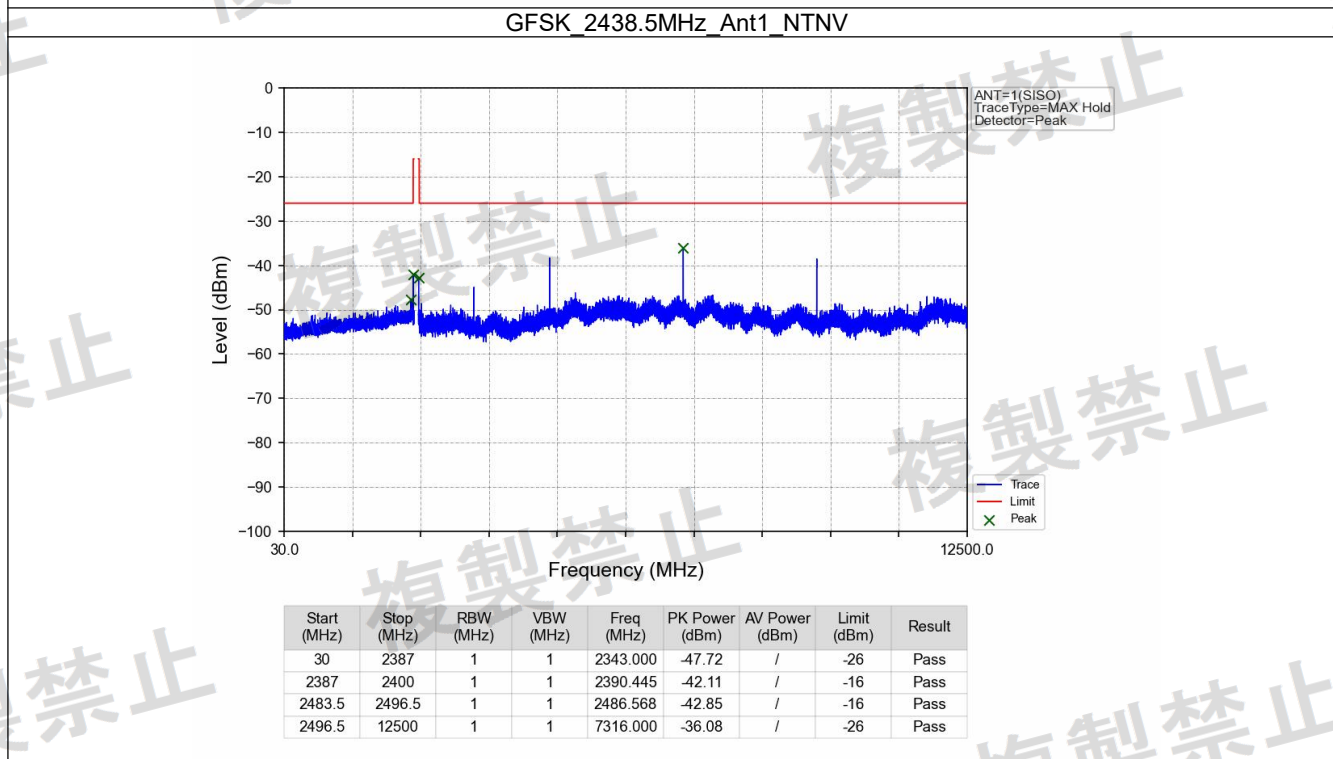
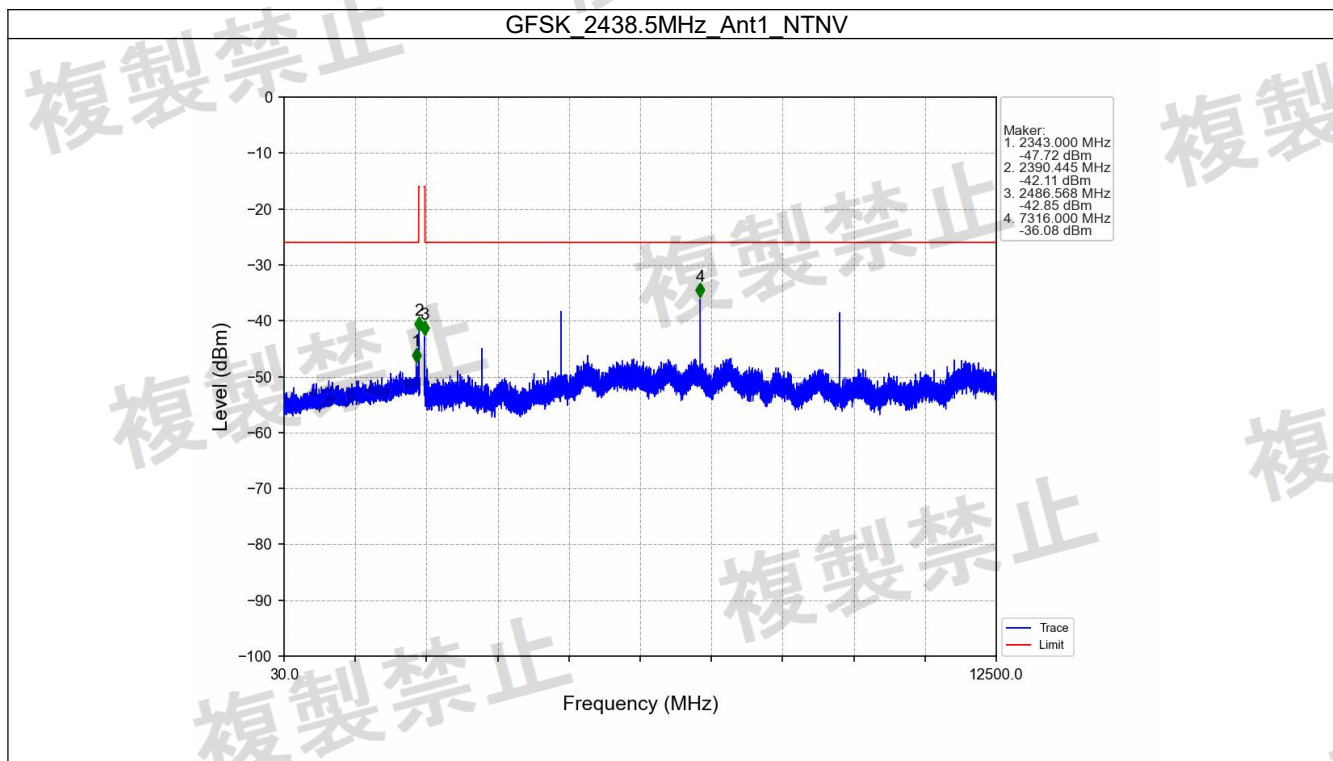
5.1.1 TxSe_NTNV

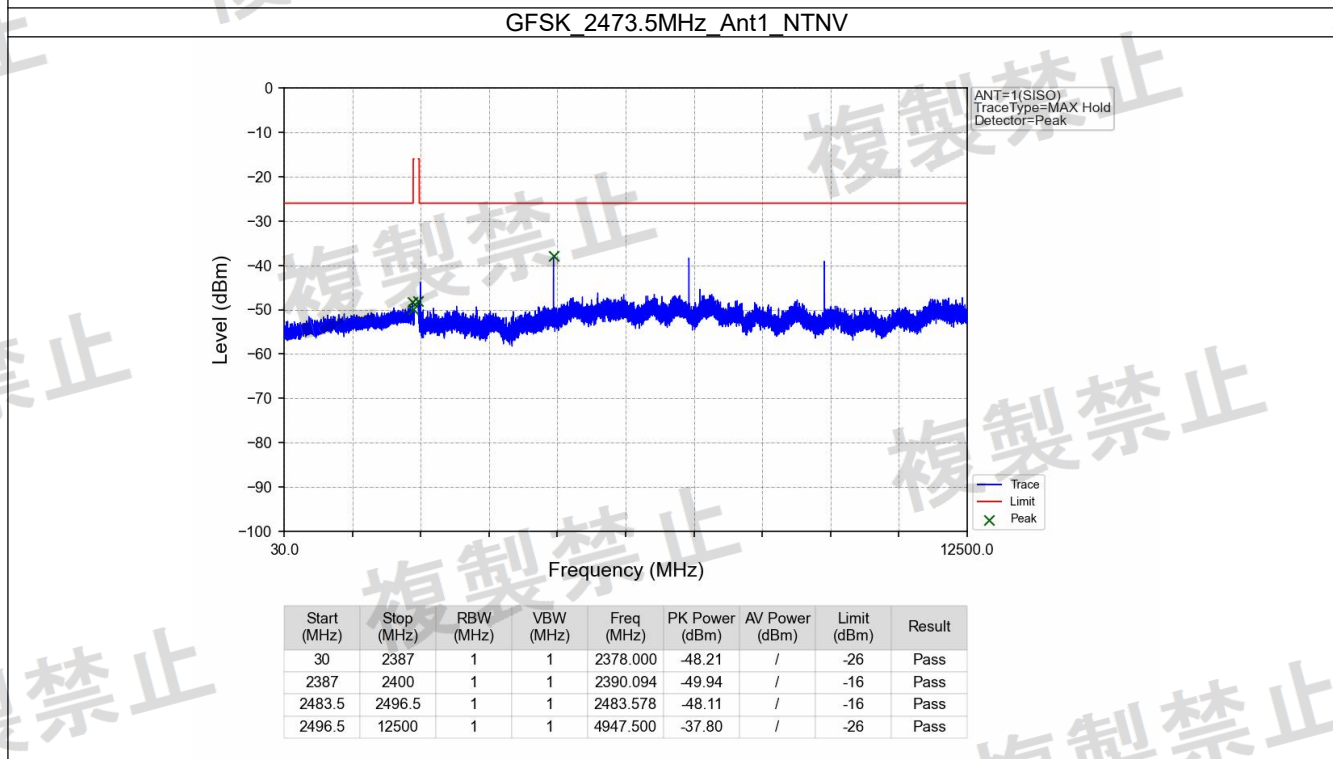
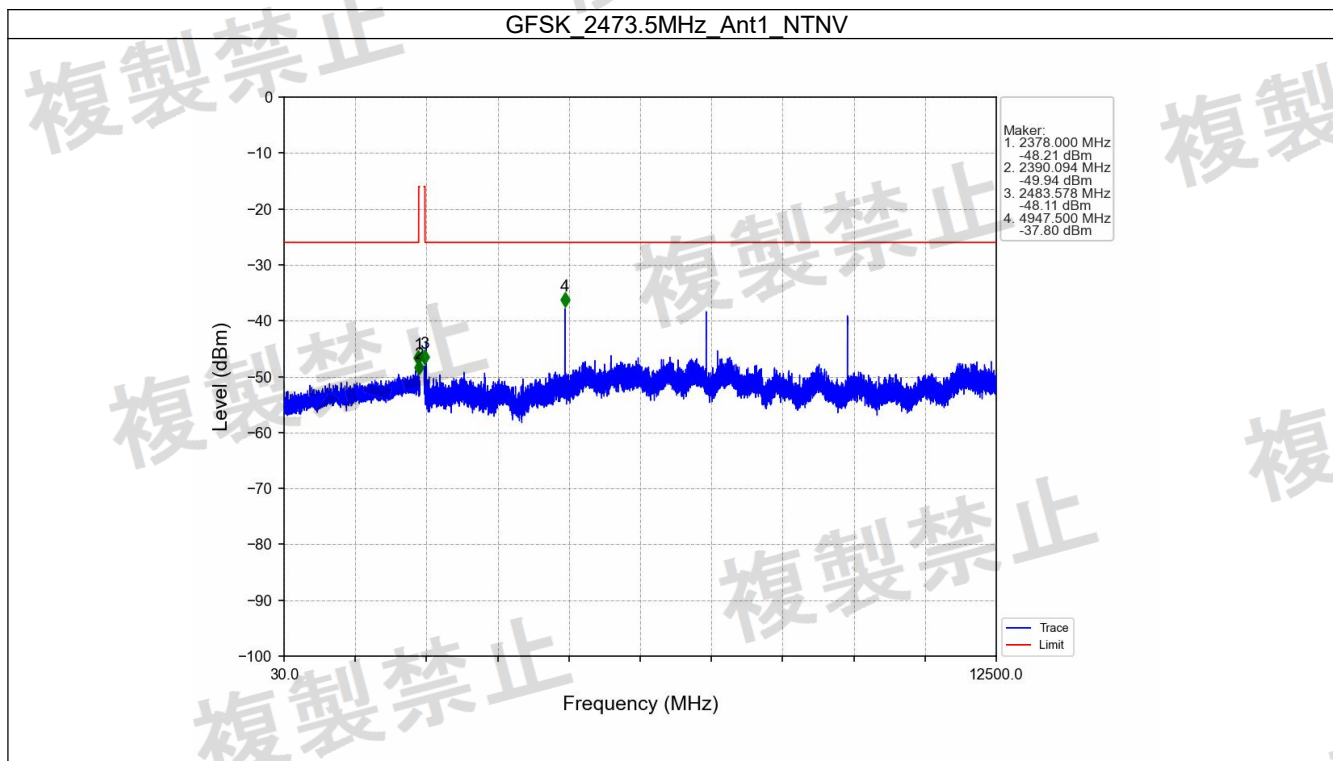
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
GFSK	SISO	2407	1	30	2387	2359.5	-43.04	0.050	/	/	2.5	Pass
				2387	2400	2399.753	-46.08	0.025	/	/	25	Pass
				2483.5	2496.5	2484.943	-49.61	0.011	/	/	25	Pass
				2496.5	12500	7222	-35.18	0.303	/	/	2.5	Pass
		2438.5	1	30	2387	2343	-47.72	0.017	/	/	2.5	Pass
				2387	2400	2390.445	-42.11	0.062	/	/	25	Pass
				2483.5	2496.5	2486.568	-42.85	0.052	/	/	25	Pass
				2496.5	12500	7316	-36.08	0.247	/	/	2.5	Pass
		2473.5	1	30	2387	2378	-48.21	0.015	/	/	2.5	Pass
				2387	2400	2390.094	-49.94	0.010	/	/	25	Pass
				2483.5	2496.5	2483.578	-48.11	0.015	/	/	25	Pass
				2496.5	12500	4947.5	-37.80	0.166	/	/	2.5	Pass

5.2 Test Graph

5.2.1 TxSe_NTNV







6. Secondary Radiated Emission

6.1 Test Result

6.1.1 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)		
GFSK	SISO	2407	1	30	1000	72	-64.49	0.356	/	/	4	Pass
				1000	12500	3498	-41.44	71.779	-78.04	0.016	20	Pass
		2438.5	1	30	1000	72	-64.47	0.357	/	/	4	Pass
				1000	12500	3442.5	-44.27	37.411	-77.79	0.017	20	Pass
		2473.5	1	30	1000	72	-64.47	0.357	/	/	4	Pass
				1000	12500	7312	-61.59	0.693	/	/	20	Pass

6.2 Test Graph

6.2.1 RxSe_NTNV

