

Appendix RF test data for 2.4G SRD

1. Frequency Error

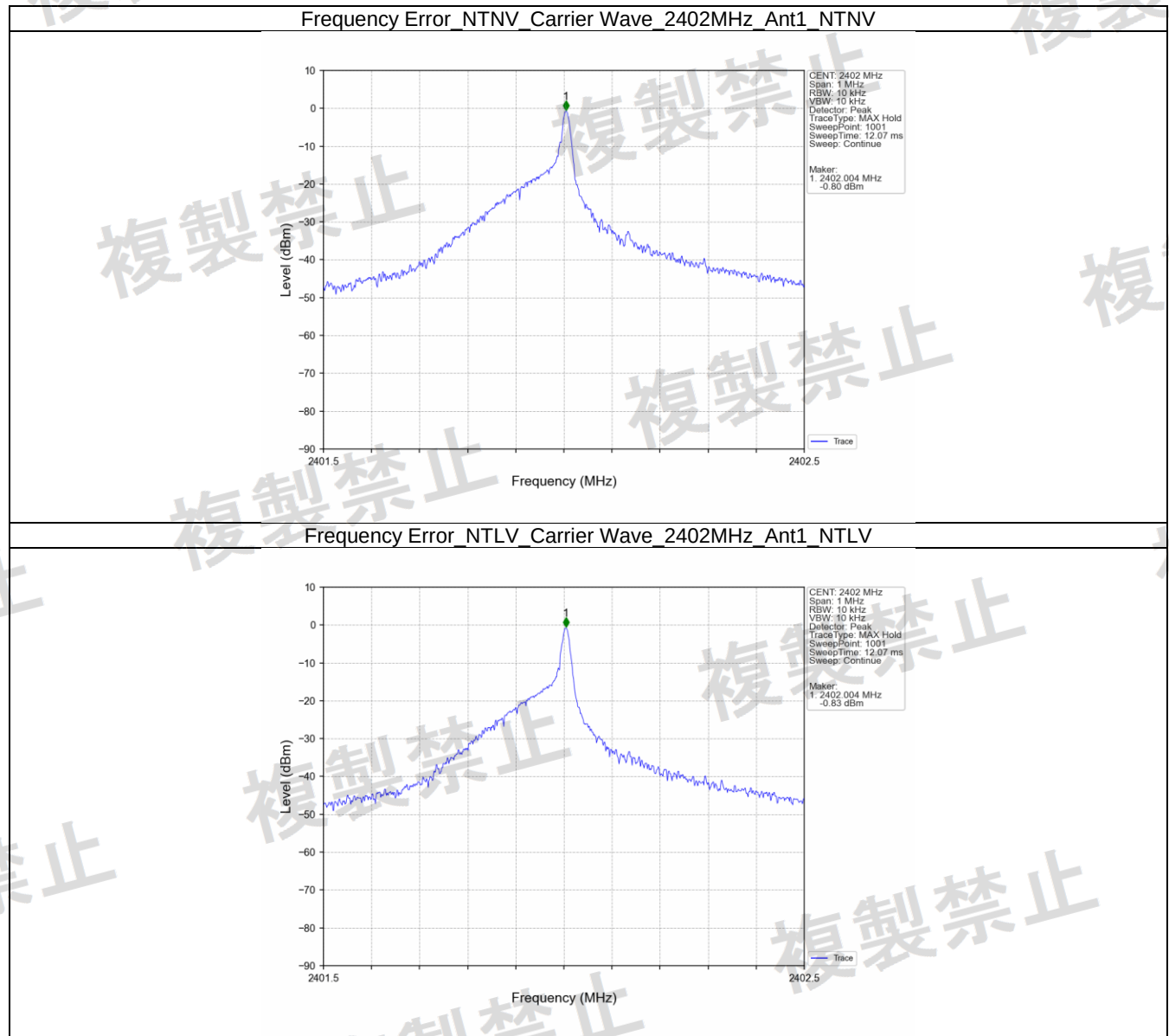
1.1 Test Result

1.1.1 Ant1

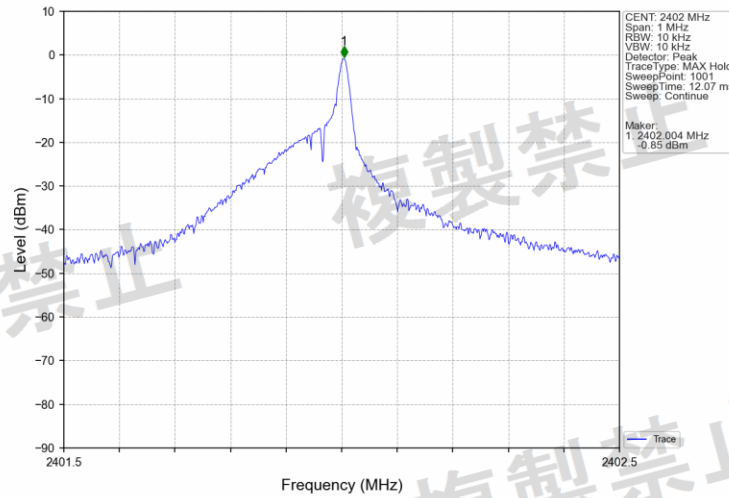
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	2402	2402.004	1.67	-50 to 50	Pass
NTLV	Carrier Wave	SISO	2402	2402.004	1.67	-50 to 50	Pass
NTHV	Carrier Wave	SISO	2402	2402.004	1.67	-50 to 50	Pass

1.2 Test Graph

1.2.1 Ant1



Frequency Error NTHV Carrier Wave 2402MHz Ant1 NTHV



2. Occupied Bandwidth

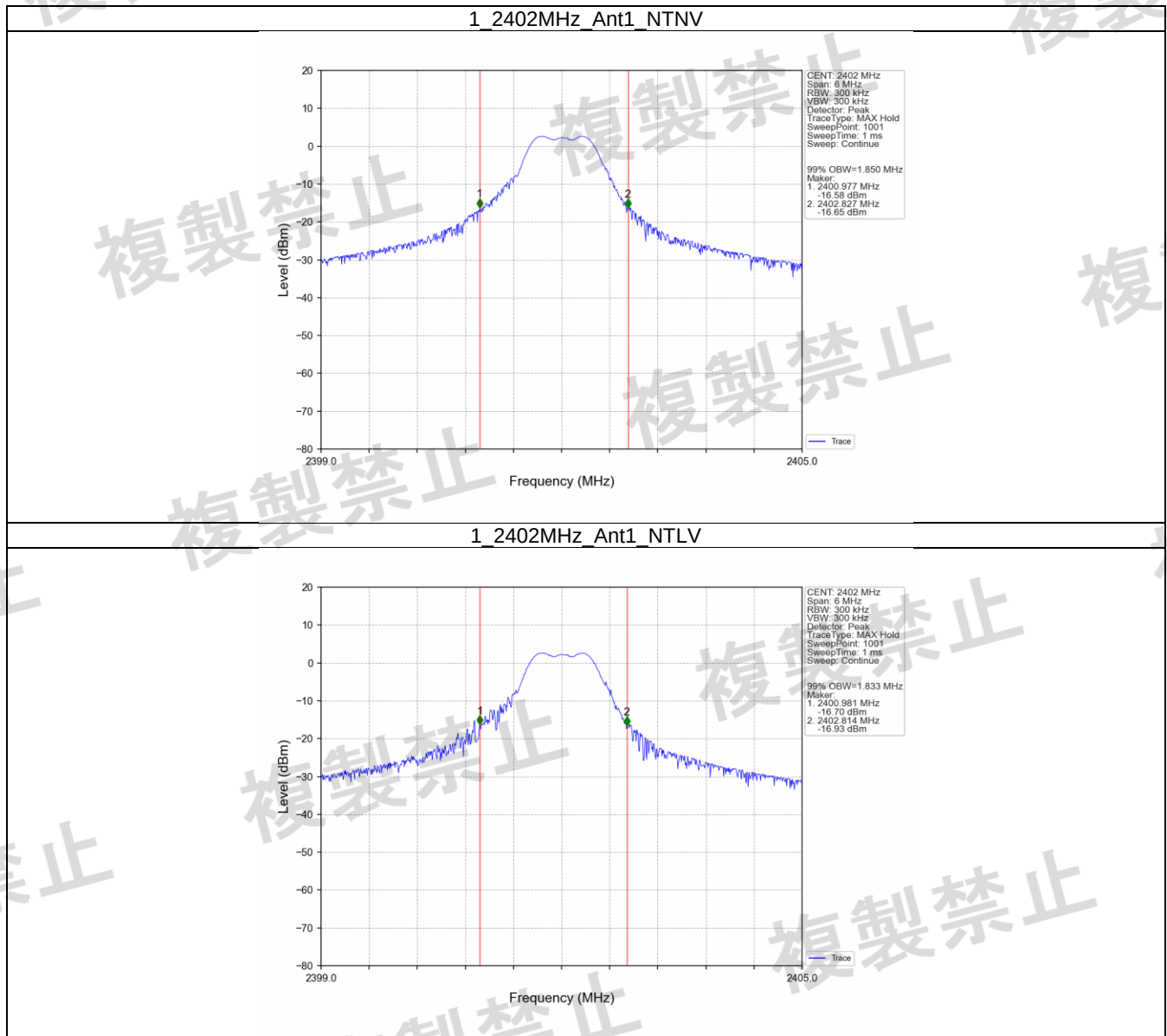
2.1 Test Result

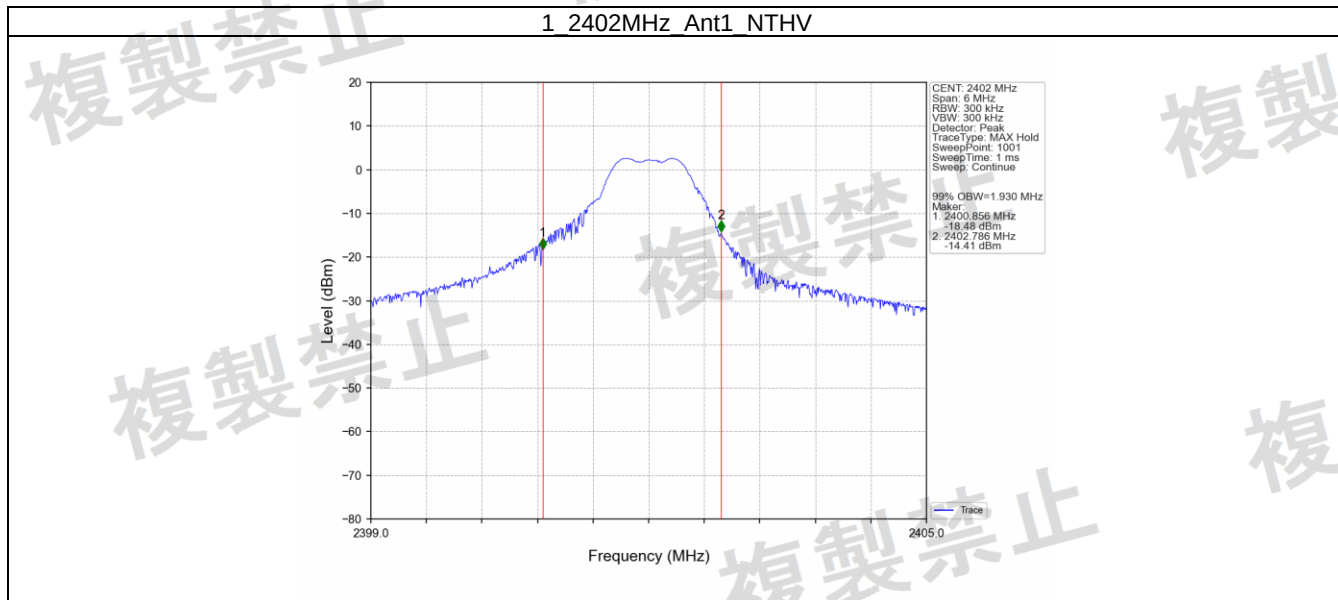
2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	1	SISO	2402	1.850	≤ 26	Pass
NTLV	1	SISO	2402	1.833	≤ 26	Pass
NTHV	1	SISO	2402	1.930	≤ 26	Pass

2.2 Test Graph

2.2.1 OBW





3. Spread Bandwidth

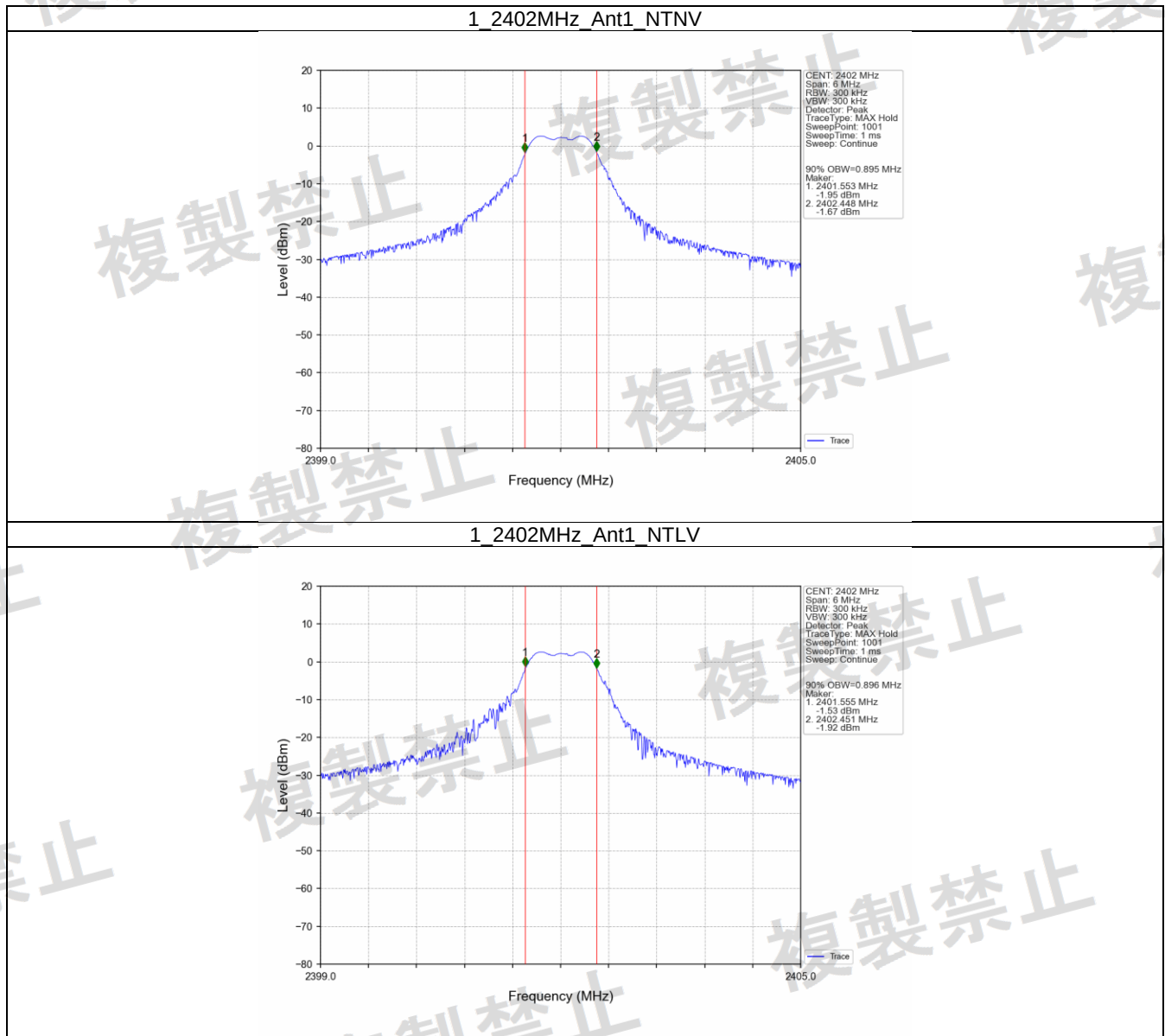
3.1 Test Result

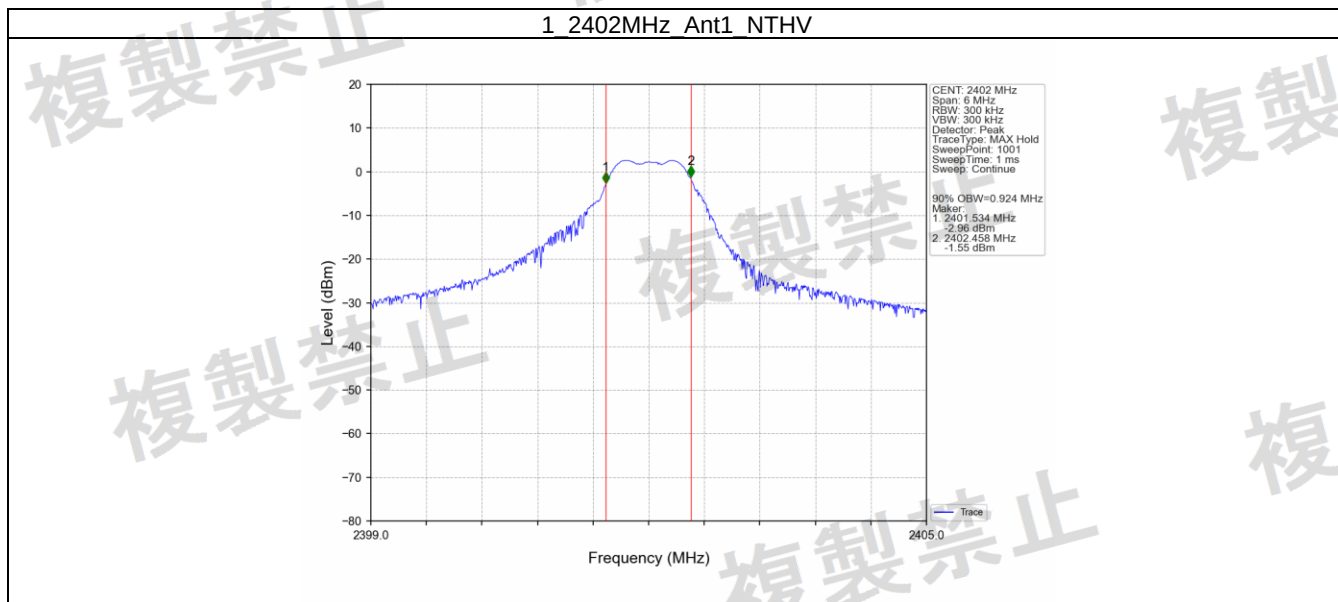
3.1.1 SPBW

ENV	Mode	TX Type	Frequency (MHz)	Spread Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	1	SISO	2402	0.895	≥ 0.5	Pass
NTLV	1	SISO	2402	0.896	≥ 0.5	Pass
NTHV	1	SISO	2402	0.924	≥ 0.5	Pass

3.2 Test Graph

3.2.1 SPBW





4. Antenna Power

4.1 Test Result

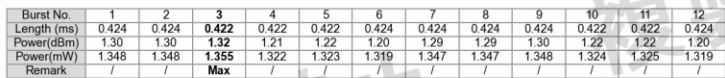
4.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW)		Nominal Power (mW)	Tolerance (%)		Verdict
					Measured	Limit		Measured	Limit	
NTNV	1	SISO	2402	1	1.355	≤ 10.00	1.500	-9.67	≤ 20	Pass
NTLV	1	SISO	2402	1	1.601	≤ 10.00	1.500	6.73	≤ 20	Pass
NTHV	1	SISO	2402	1	1.477	≤ 10.00	1.500	-1.53	≤ 20	Pass

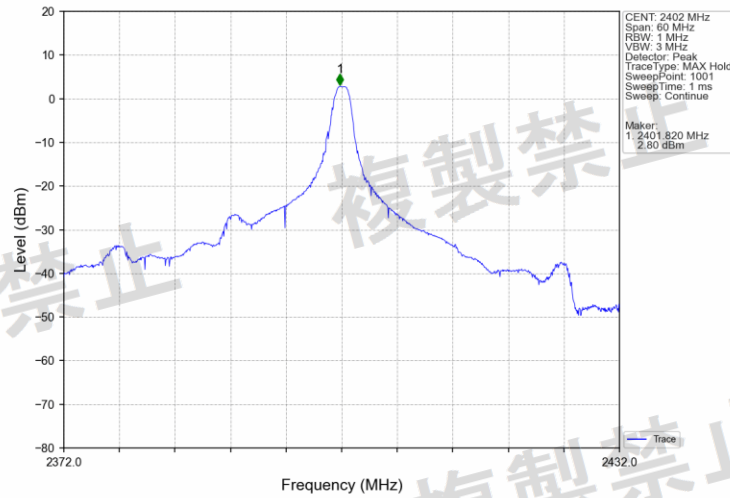
4.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	EIRP (dBm)		Verdict
						Result	Limit	
NTNV	1	SISO	2402	1	-7.18	-5.86	≤ 12.14	Pass
NTLV	1	SISO	2402	1	-7.18	-5.14	≤ 12.14	Pass
NTHV	1	SISO	2402	1	-7.18	-5.49	≤ 12.14	Pass

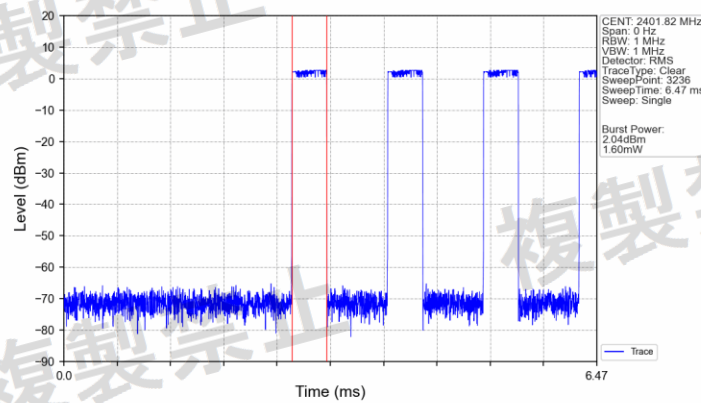
4.2.1 Power



1 2402MHz Ant1 NTLV

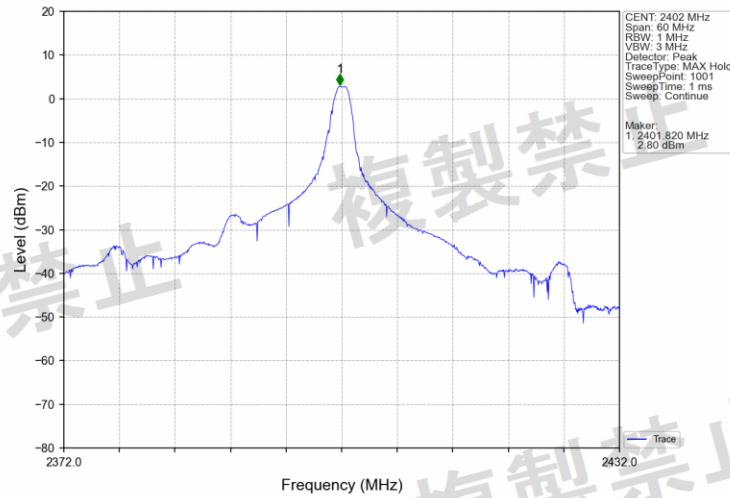


1 2402MHz Ant1 NTLV

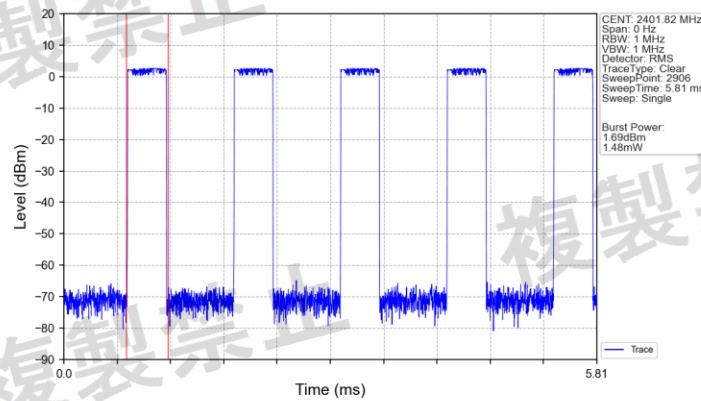


Burst No	1	2	3
Length (ms)	0.422	0.424	0.422
Power(dBm)	2.04	2.02	2.04
Power(mW)	1.601	1.593	1.600
Remark	Max	/	/

1 2402MHz Ant1 NTHV



1 2402MHz Ant1 NTHV



Burst No.	1	2	3	4	5
Length (ms)	0.000	0.450	0.450	0.450	0.452
Power (dBm)	0.00	1.69	1.64	1.64	1.62
Power (mW)	0.000	1.477	1.459	1.460	1.454
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)		
1	SISO	2402	1	30	2387	2379	-33.84	0.413	/	/	2.5	Pass
				2387	2400	2399.948	-14.78	33.266	-39.56	0.111	25	Pass
				2483.5	2496.5	2489.181	-51.80	0.007	/	/	25	Pass
				2496.5	12500	7206.5	-33.81	0.416	/	/	2.5	Pass

5.1.2 TxSe_NTLV

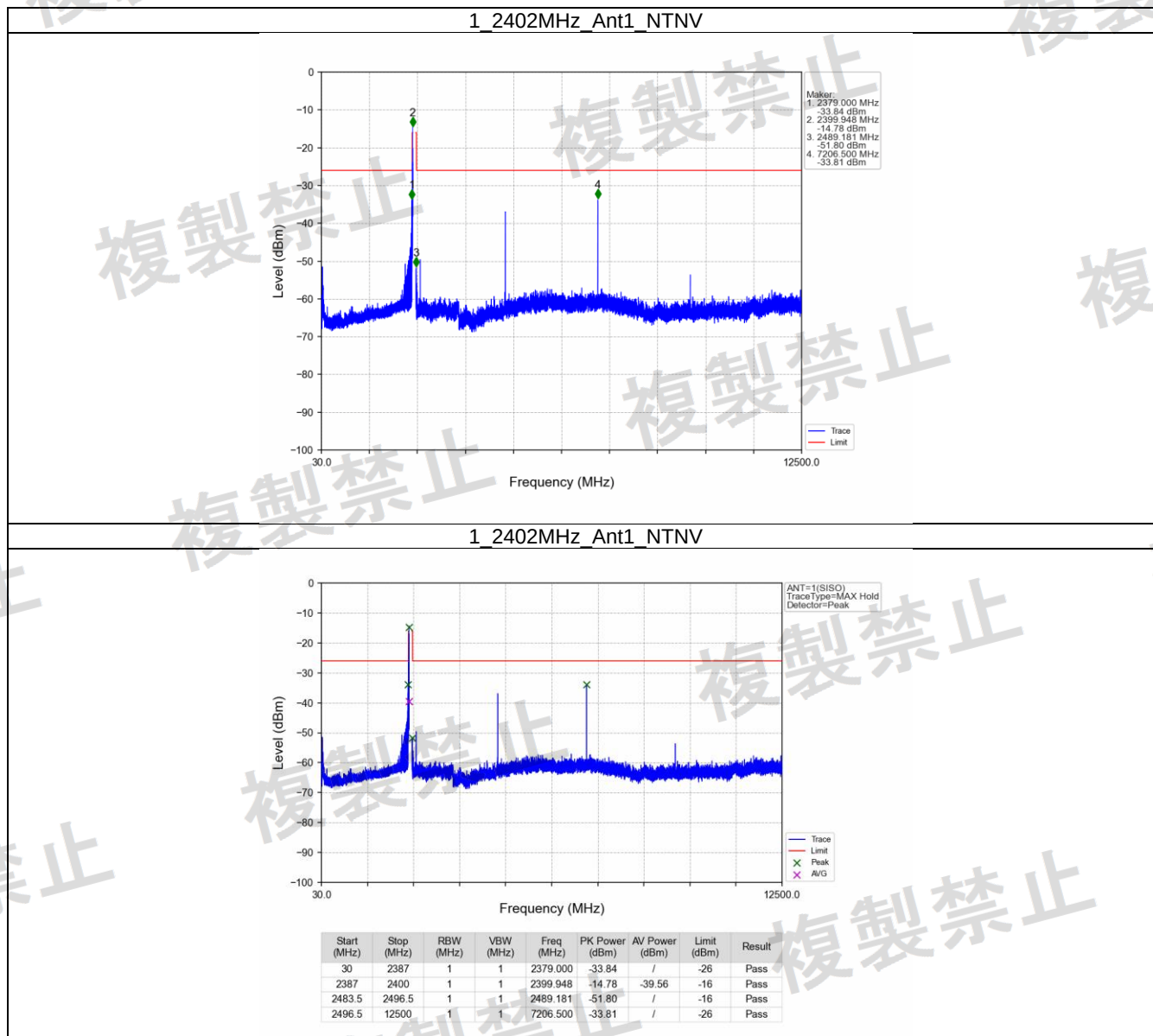
NTLV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
1	SISO	2402	1	30	2387	2386	-35.75	0.266	/	/	2.5	Pass
				2387	2400	2399.909	-14.95	31.989	-38.91	0.129	25	Pass
				2483.5	2496.5	2488.154	-52.52	0.006	/	/	25	Pass
				2496.5	12500	7207.5	-33.72	0.425	/	/	2.5	Pass

5.1.3 TxSe_NTHV

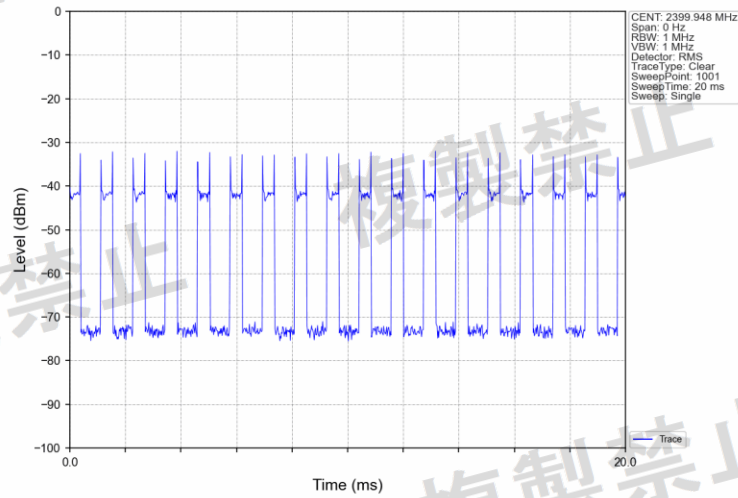
NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
1	SISO	2402	1	30	2387	2385.5	-38.46	0.143	/	/	2.5	Pass
				2387	2400	2399.987	-14.45	35.892	-38.47	0.142	25	Pass
				2483.5	2496.5	2485.099	-53.15	0.005	/	/	25	Pass
				2496.5	12500	4804	-46.10	0.025	/	/	2.5	Pass

5.2 Test Graph

5.2.1 TxSe_NTNV

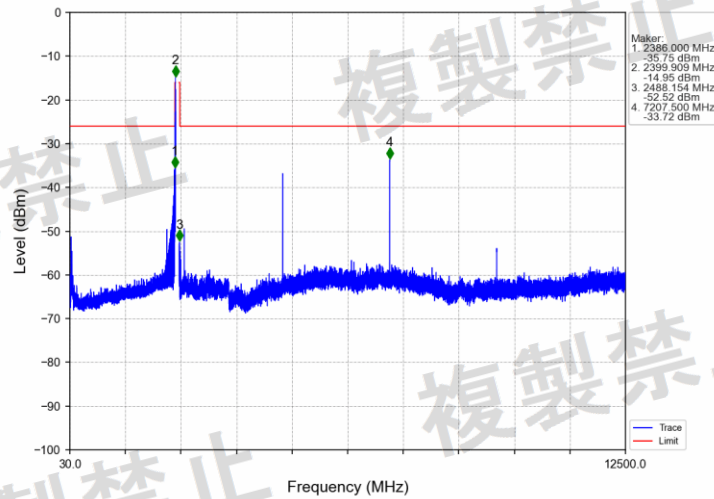


1 2402MHz_Ant1_NTNV

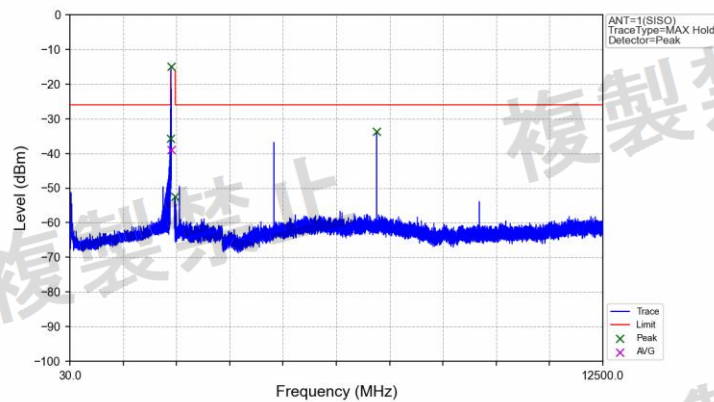


5.2.2 TxSe_NTLV

1_2402MHz_Ant1_NTLV

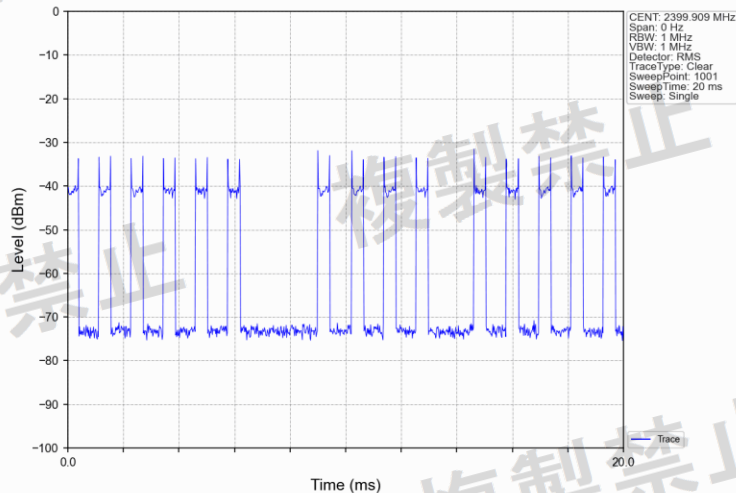


1_2402MHz_Ant1_NTLV

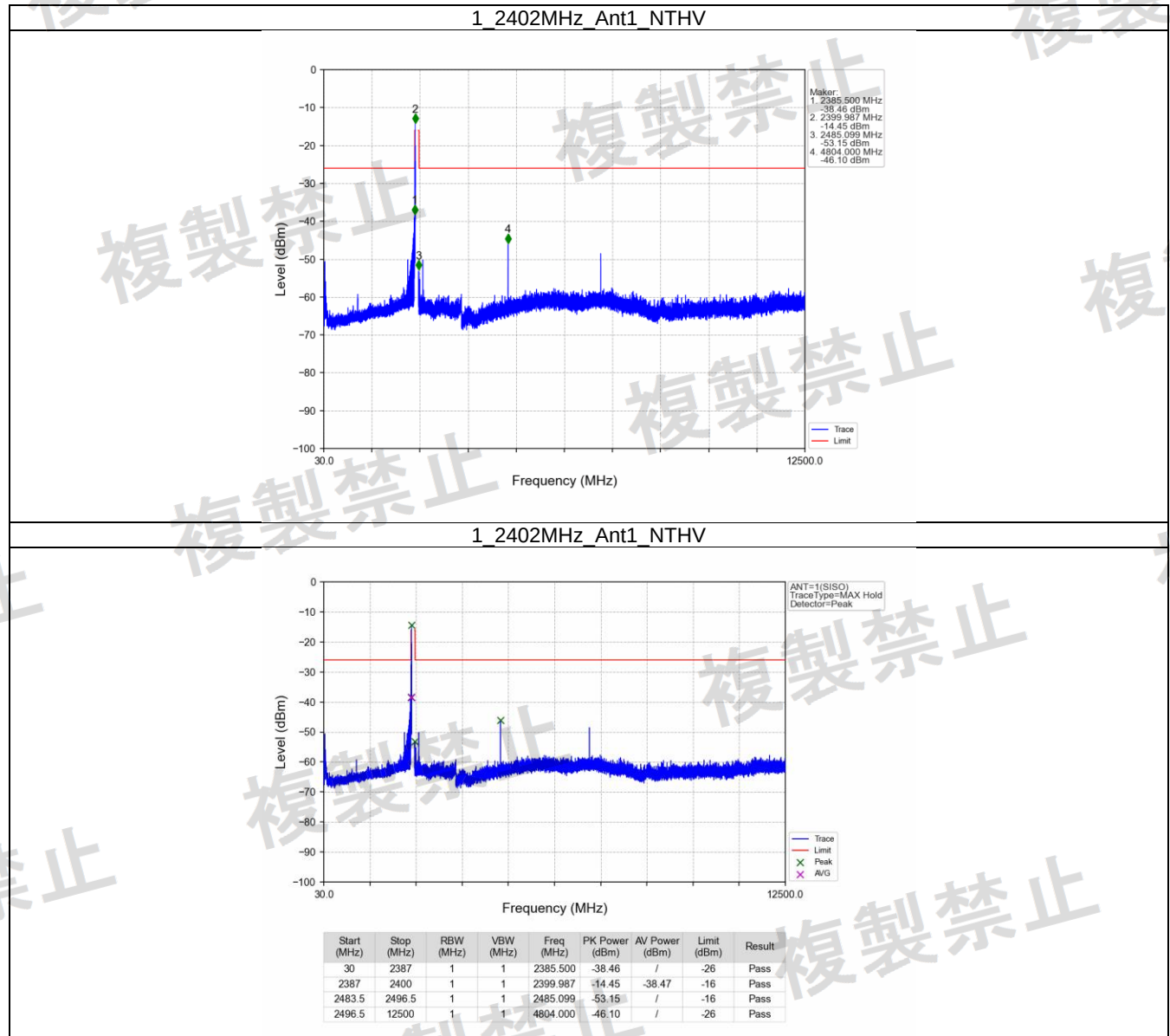


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.000	-35.75	/	-26	Pass
2387	2400	1	1	2399.909	-14.95	-38.91	-16	Pass
2483.5	2496.5	1	1	2488.154	-52.52	/	-16	Pass
2496.5	12500	1	1	7207.500	-33.72	/	-26	Pass

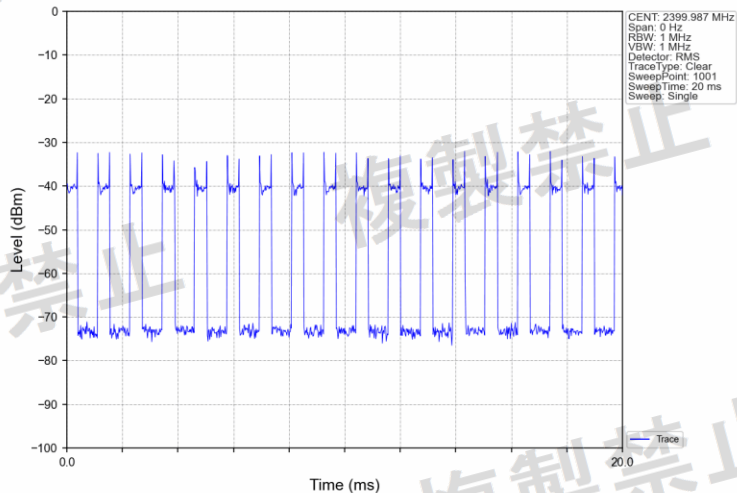
1 2402MHz Ant1 NTLV



5.2.3 TxSe_NTHV



1 2402MHz_Ant1_NTHV



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)		
1	SISO	2402	1	30	1000	824.45	-78.49	0.014	/	/	4	Pass
				1000	12500	5541.5	-62.60	0.550	/	/	20	Pass

6.1.2 RxSe_NTLV

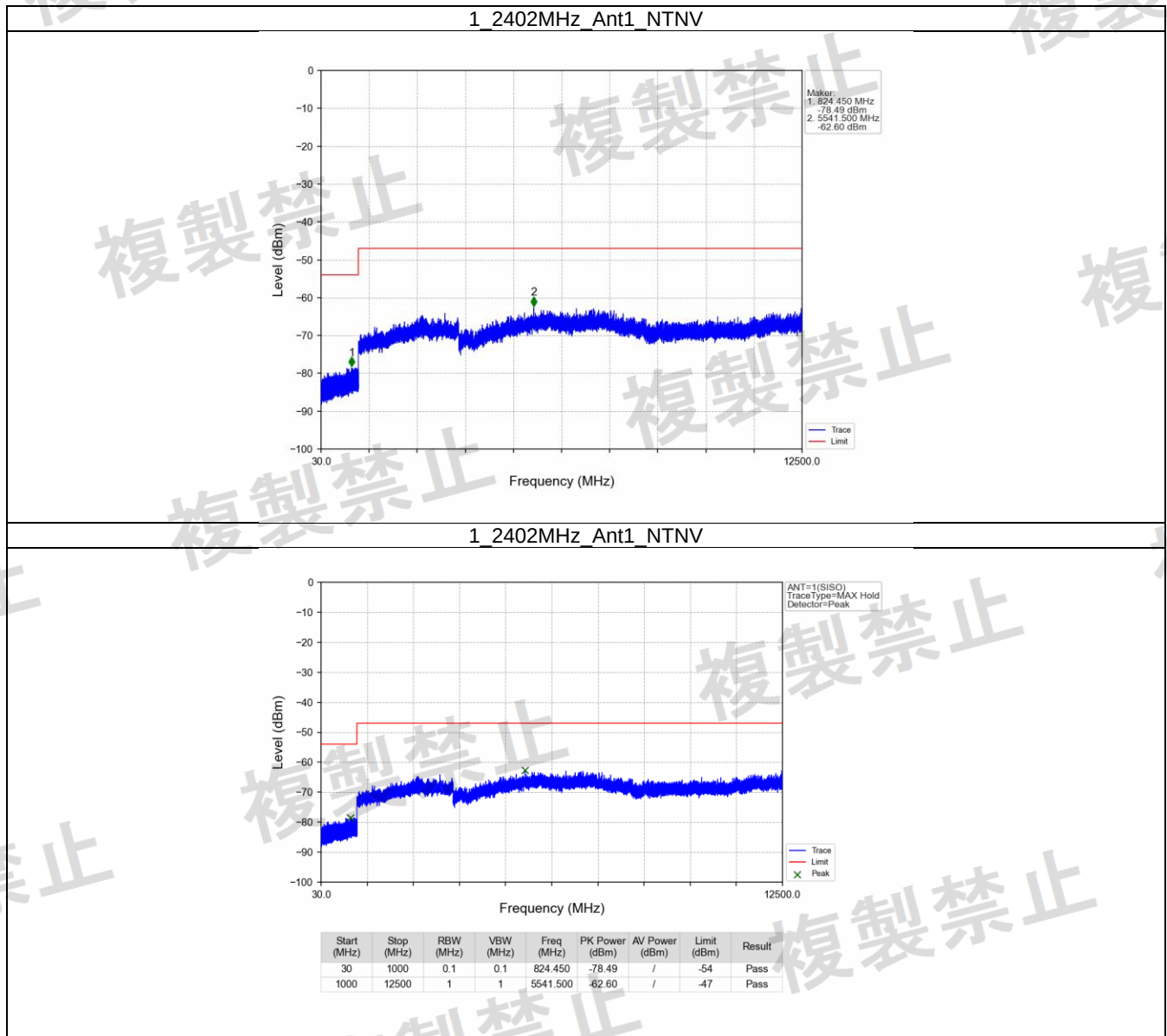
NTLV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
1	SISO	2402	1	30	1000	971.3	-78.05	0.016	/	/	4	Pass
				1000	12500	6784	-62.60	0.550	/	/	20	Pass

6.1.3 RxSe_NTHV

NTHV												
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)		
1	SISO	2402	1	30	1000	890.35	-78.05	0.016	/	/	4	Pass
				1000	12500	6899	-62.87	0.516	/	/	20	Pass

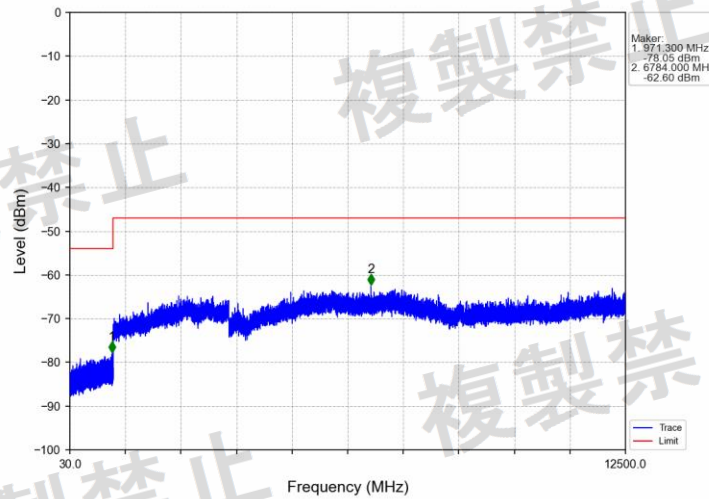
6.2 Test Graph

6.2.1 RxSe_NTNV

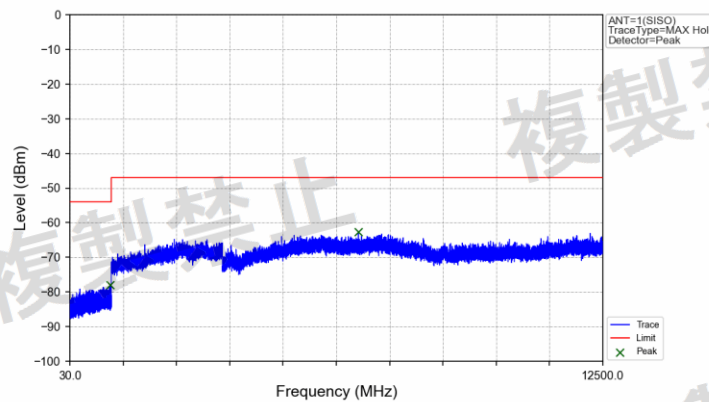


6.2.2 RxSe_NTLV

1_2402MHz_Ant1_NTLV

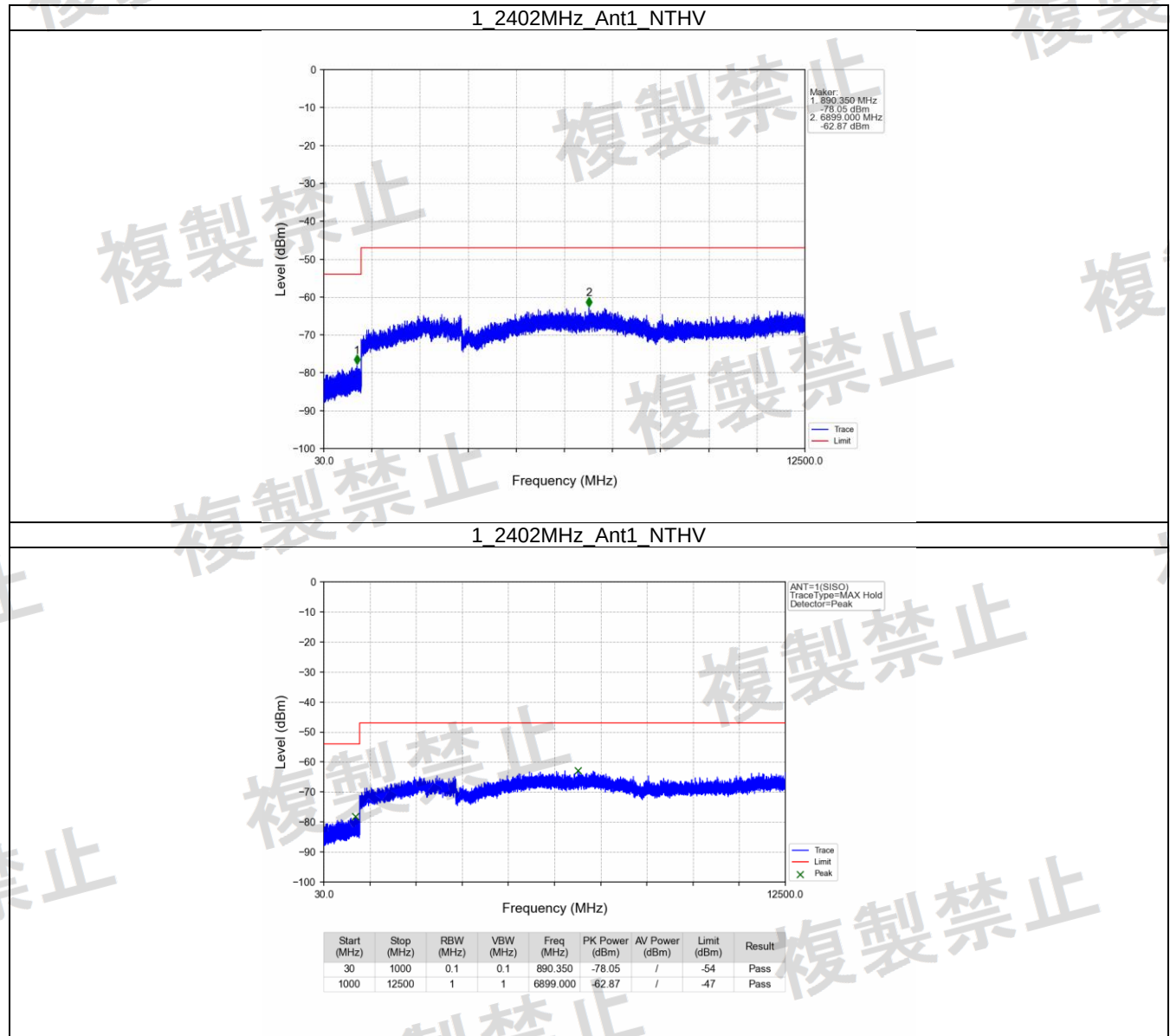


1_2402MHz_Ant1_NTLV



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	971.300	-78.05	/	-54	Pass
1000	12500	1	1	6784.000	-62.60	/	-47	Pass

6.2.3 RxSe_NTHV



***** End of Report *****