



Appendix A for 2.4G Test Data

Circulight HELIX
Test Model: DCC-SR01

Environmental Conditions

Temperature:	21.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



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Scan code to check authenticity

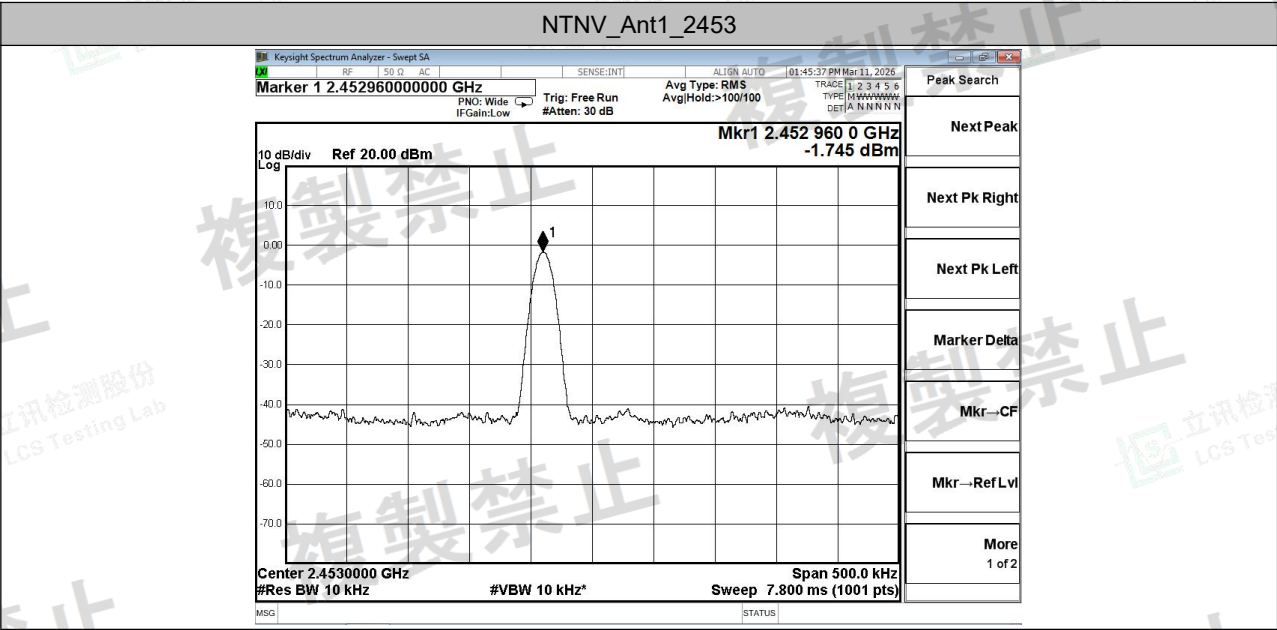


A.1 Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency Error	Ant1	2453	-16.3066	±50	PASS

Test Graphs





A.2 Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Frequency[MHz]	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	2.4G	Ant1	2453	-5.63	0.2735	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	2.4G	Ant1	2453	0.2735	0.3	-8.83	+20	PASS



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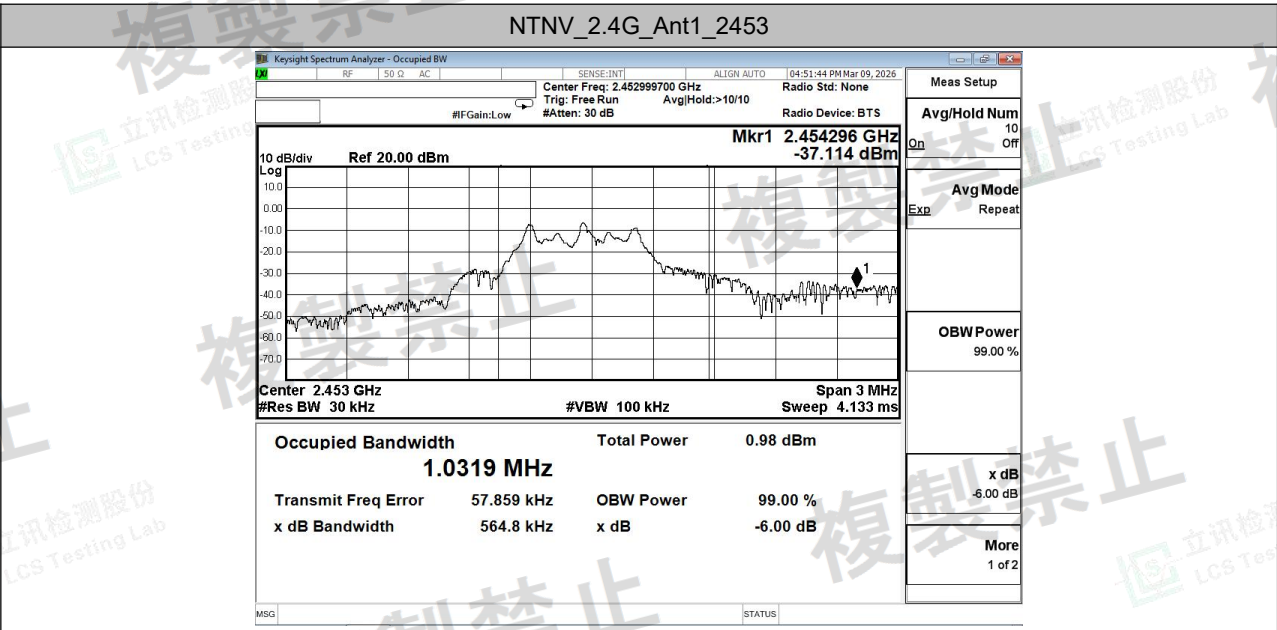


A.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2453	1.0319	≤26	PASS

Test Graphs



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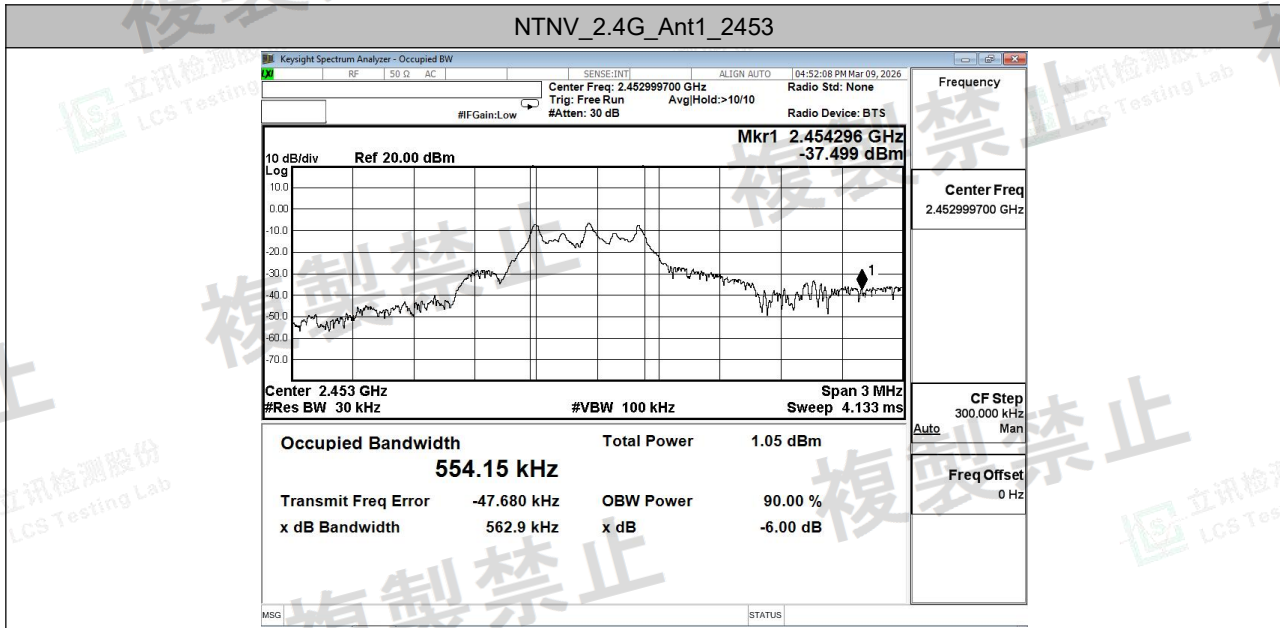


A.4 Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2453	0.554	----	PASS

Test Graphs





A.5 Spurious Emission of TX

Test Result

TestCondition n	TestMode	Antenna	Frequency[MH z]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdi ct
NTNV	2.4G	Ant1	2453	30~1000	-68.44	≤-36	0.00014	≤0.25	PASS
				1000~2387	-52.07	≤-26	0.00621	≤2.5	PASS
				2387~2400	-47.63	≤-16	0.01726	≤25	PASS
				2483.5~2496.5	-46.37	≤-16	0.02307	≤25	PASS
				2496.5~13000	-54.50	≤-26	0.00355	≤2.5	PASS

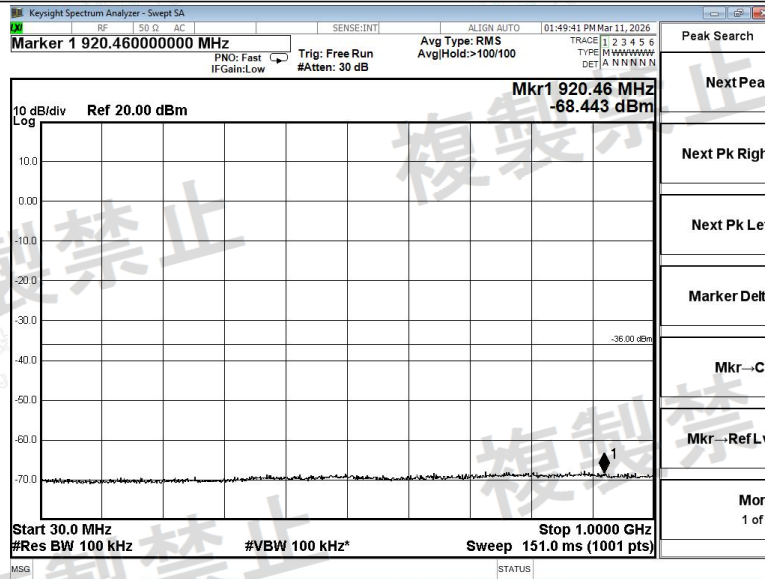


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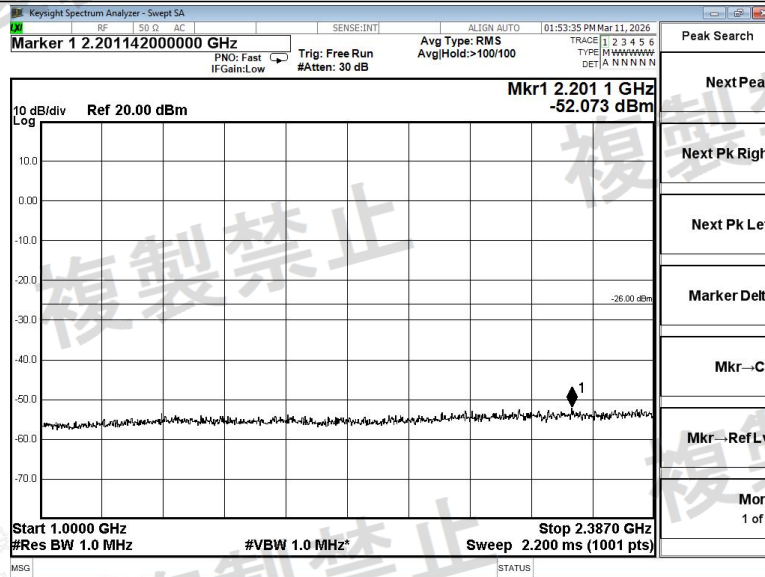


Test Graphs

NTNV_2.4G_Ant1_2453_30~1000

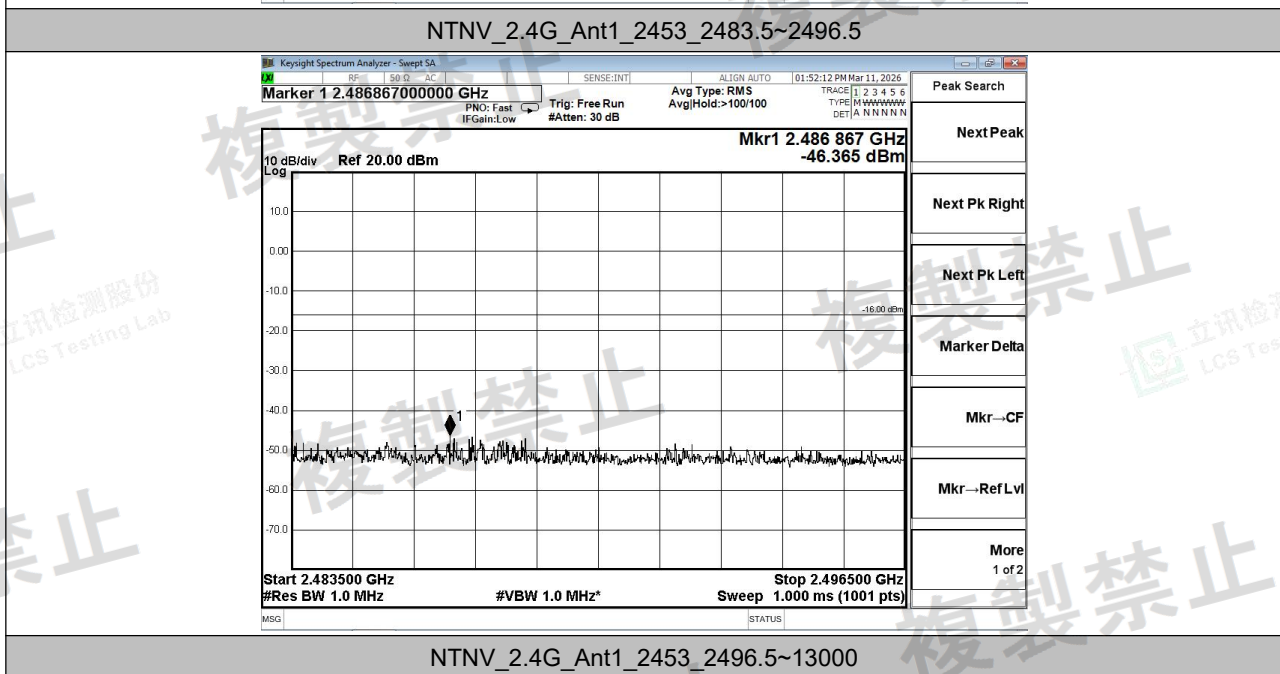
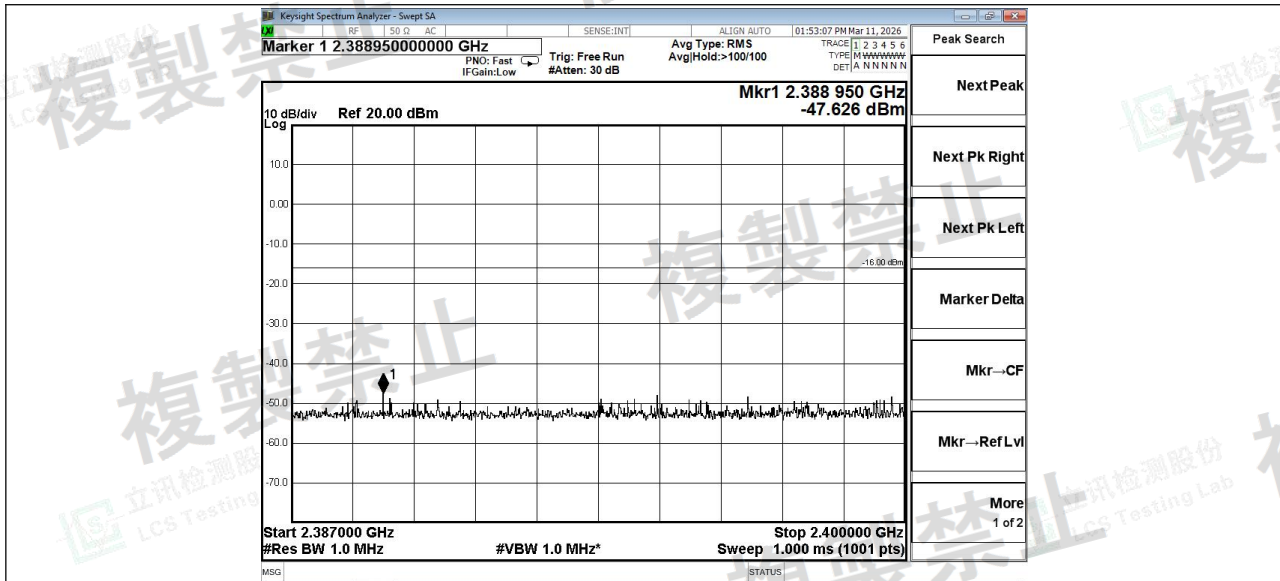


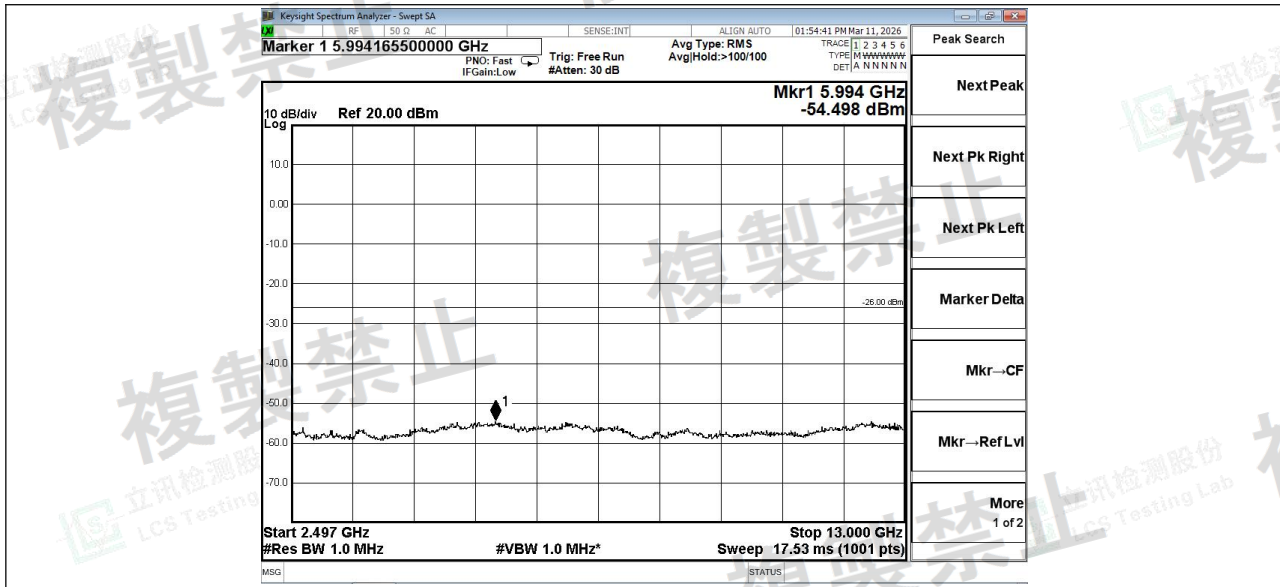
NTNV_2.4G_Ant1_2453_1000~2387



NTNV_2.4G_Ant1_2453_2387~2400







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A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	2.4G	Ant1	2453	30~1000	-88.11	≤-54	0.00155	≤4	PASS
				1000~12500	-75.08	≤-47	0.03105	≤20	PASS

Test Graphs

