



Appendix A for BT Test Data

Product Name: INTEGRATED AMPLIFIER

Test Model: QUAD 3

Environmental Conditions

Temperature:	23.9°C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Paddi Chen



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A.1 Frequency_Error

Test Result

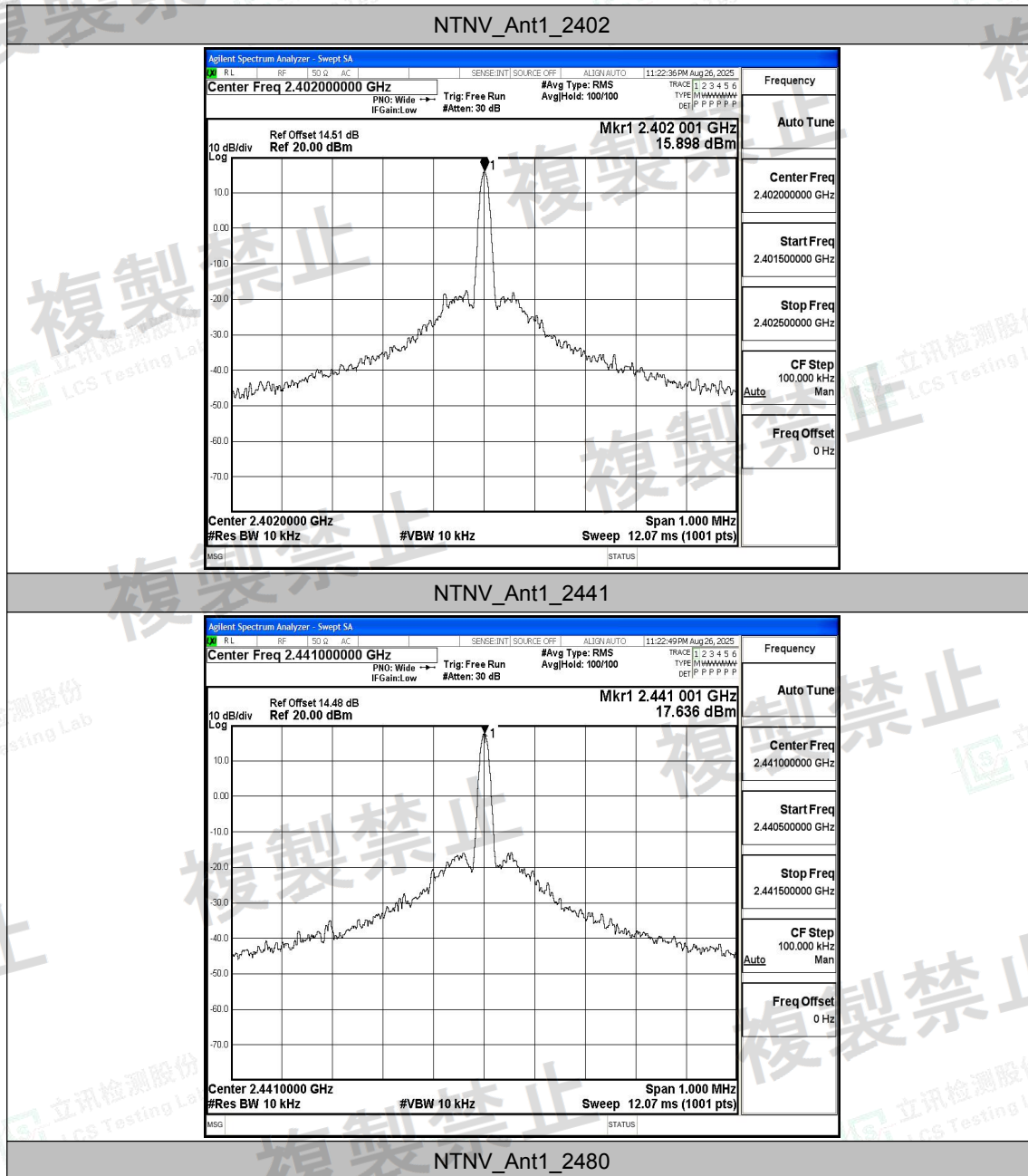
TestCondition	TestMode	Antenna	Frequency [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency_Error	Ant1	2402	0.41632	±50	PASS
			2441	0.40967	±50	PASS
			2480	0.40323	±50	PASS



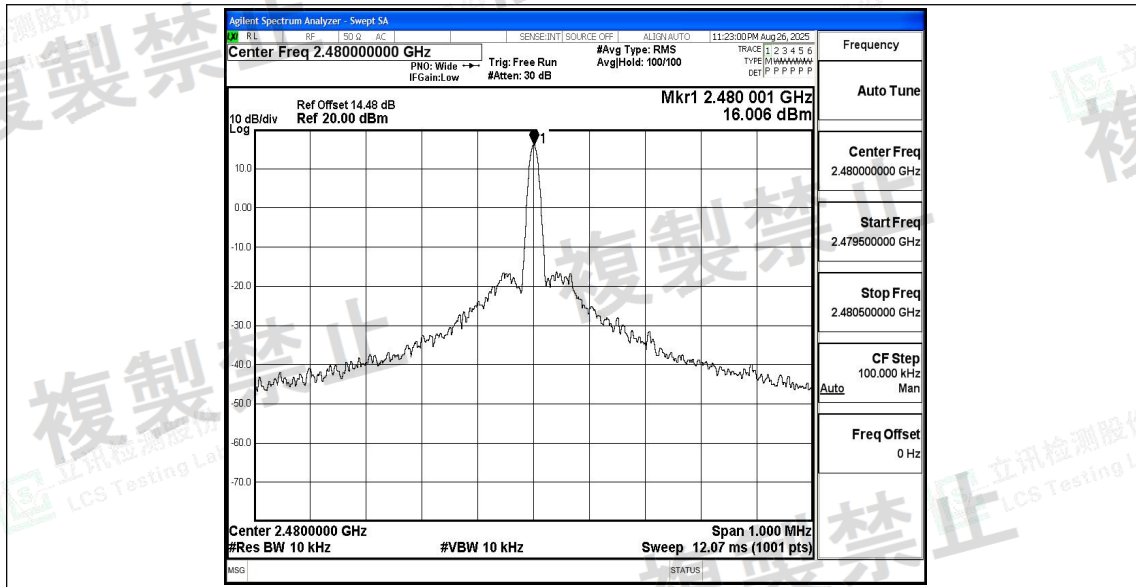
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Test Graphs



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A.2 Antenna Power and E.I.R.P

Test Result

Test Voltage				Normal Voltage			
Mode	Declared power	Average Result	Average Result	Result	Limit	Tolerance	Limit
	(mW/MHz)	(dBm)	(mW)	(mW/MHz)	(mW/MHz)	/	/
Hopping-Tx (1Mbps)	0.02	-0.30	0.93	0.018	3	-10.00%	+20%
Hopping-Tx (2Mbps)	0.02	0.28	1.07	0.020	3	0.00%	+20%
Hopping-Tx (3Mbps)	0.02	-2.05	0.62	0.012	3	-40.00%	+20%
Conclusion: PASS							

Result power= Average value / (Duty Cycle * Spreading bandwidth)

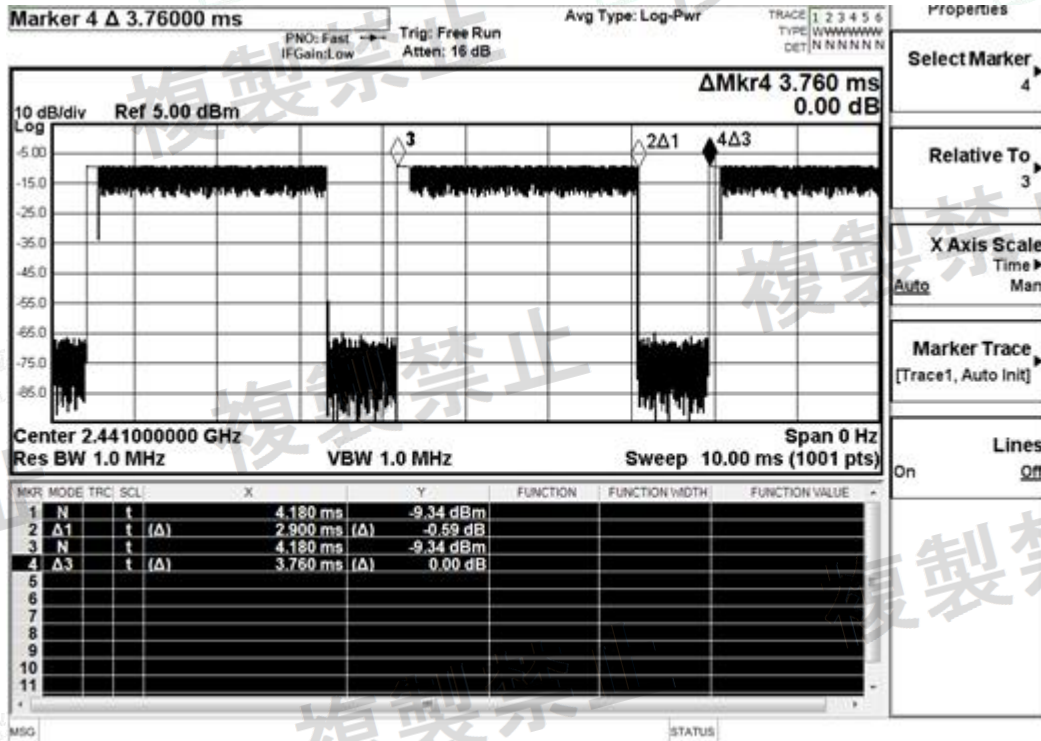
Antenna power Result = Measured Power / Spreading bandwidth

Spread Bandwidth (DH5) = 68.853MHz, Spread Bandwidth (2DH5) = 68.902MHz,

Spread Bandwidth (3DH5) = 68.937MHz

Duty cycle=77.1%

Duty cycle= [Ton/ (Ton+Toff)]*100%=2.900/3.760*100%=77.1%



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EIRP								
Test Condition	TestMode	Antenna	Result (mW/MHz)	Result (dBm/MHz)	Antenna Gain(dBi)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	DH5	Ant1	0.018	-17.45	3.60	-13.85	≤6.91	PASS
NTNV	2DH5	Ant1	0.020	-16.99	3.60	-13.39	≤6.91	PASS
NTNV	3DH5	Ant1	0.012	-19.21	3.60	-15.61	≤6.91	PASS



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A.3 Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	2402	0.863	≤83.5	PASS
			2441	0.861	≤83.5	PASS
			2480	0.863	≤83.5	PASS
	2DH5	Ant1	2402	1.185	≤83.5	PASS
			2441	1.189	≤83.5	PASS
			2480	1.190	≤83.5	PASS
	3DH5	Ant1	2402	1.181	≤83.5	PASS
			2441	1.186	≤83.5	PASS
			2480	1.185	≤83.5	PASS

TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.420	≤83.5	PASS
	2DH5	Ant1	Hop	78.495	≤83.5	PASS
	3DH5	Ant1	Hop	78.507	≤83.5	PASS

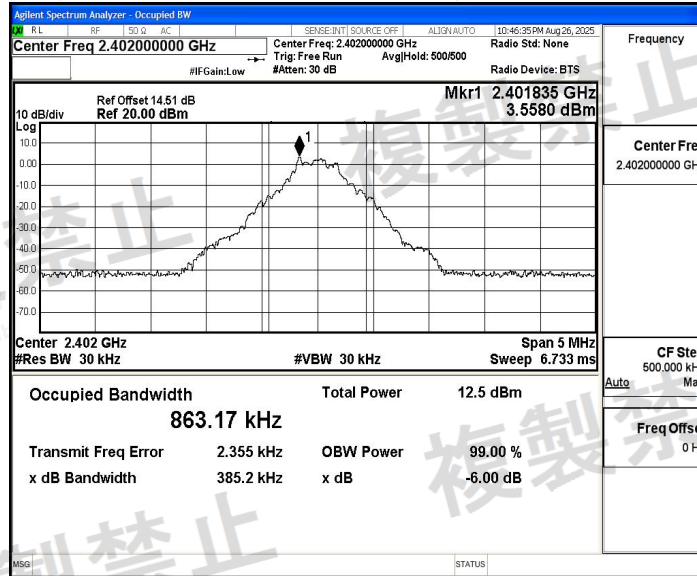


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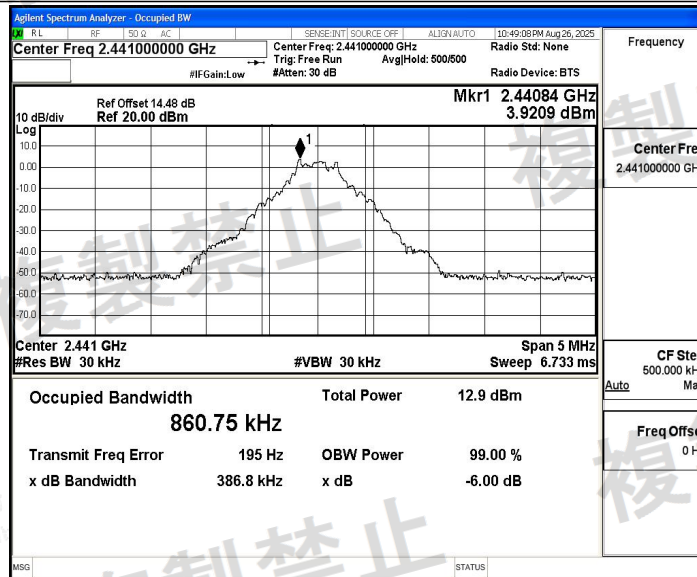


Test Graphs

NTNV_DH5_Ant1_2402



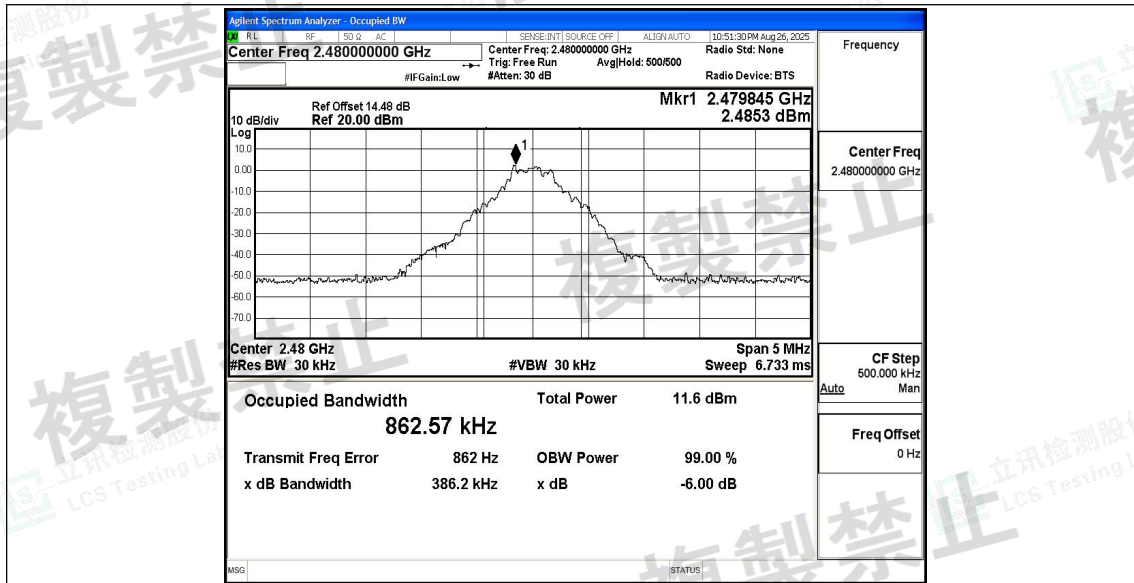
NTNV_DH5_Ant1_2441



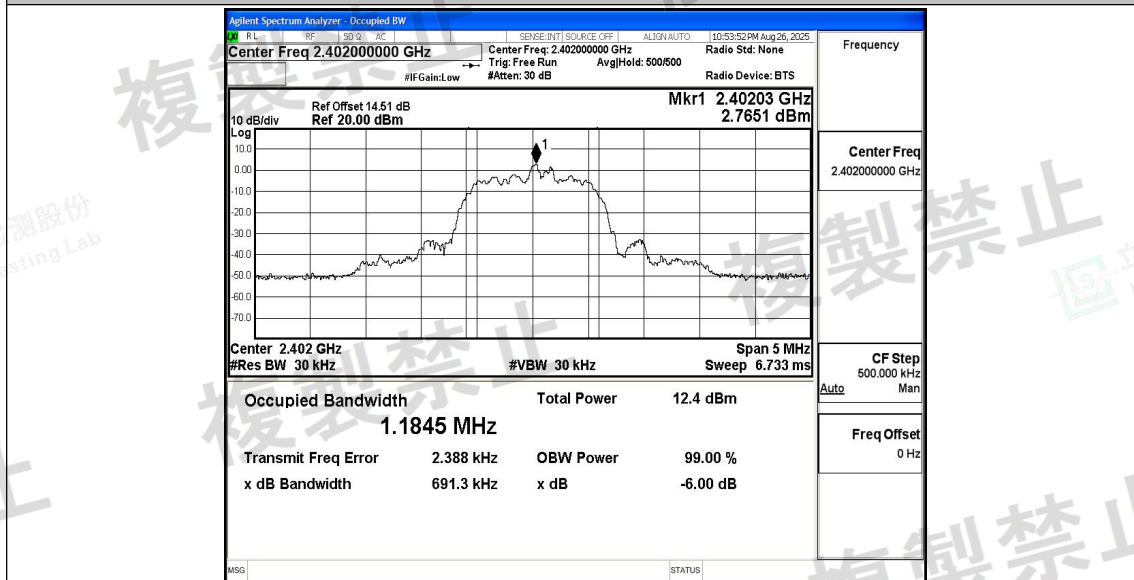
NTNV_DH5_Ant1_2480



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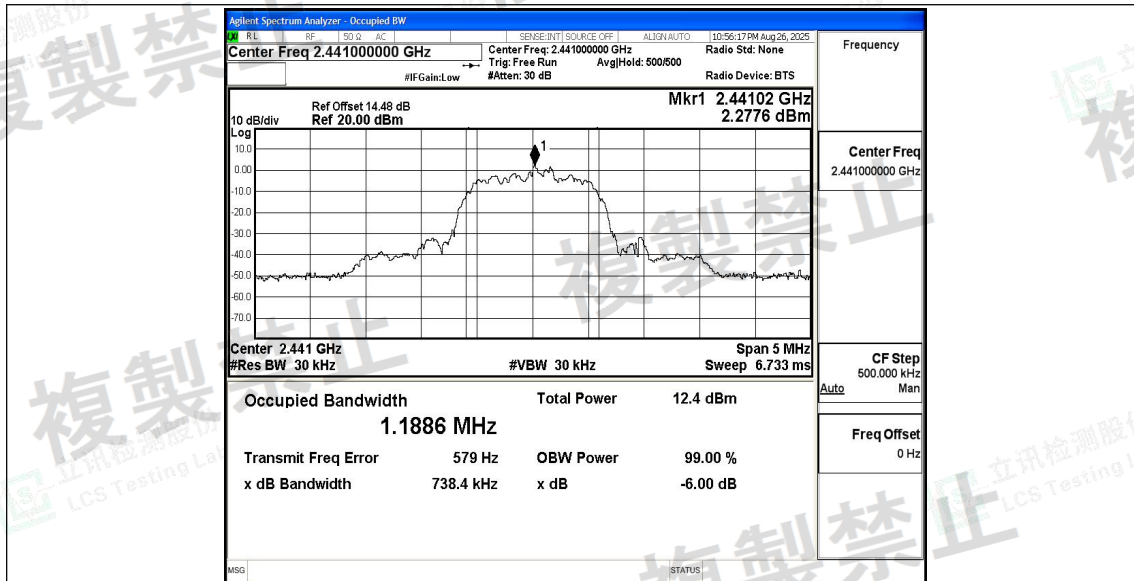
NTNV_2DH5_Ant1_2402



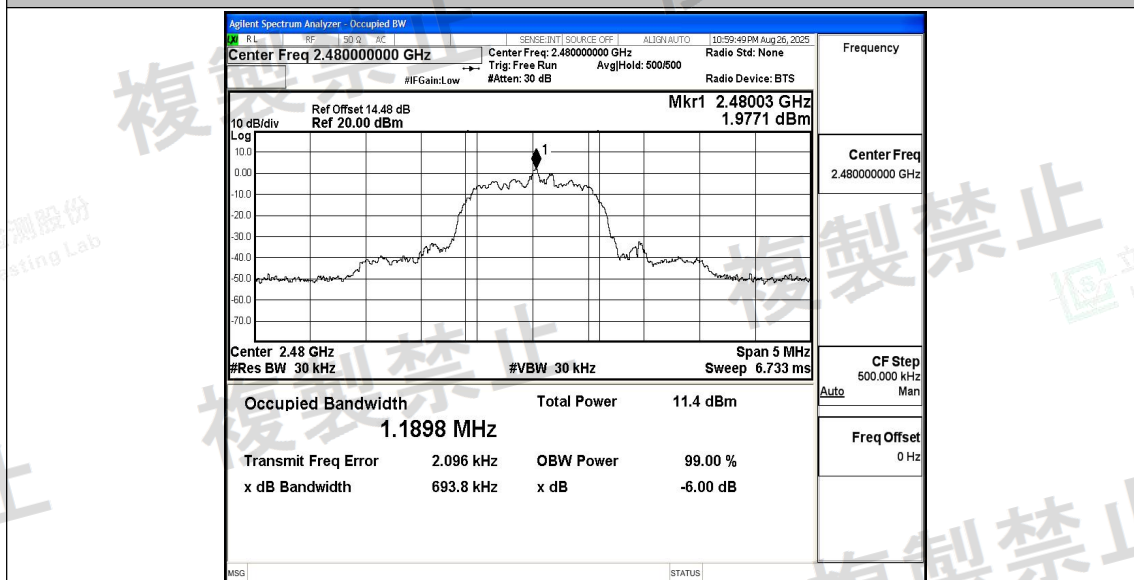
NTNV_2DH5_Ant1_2441



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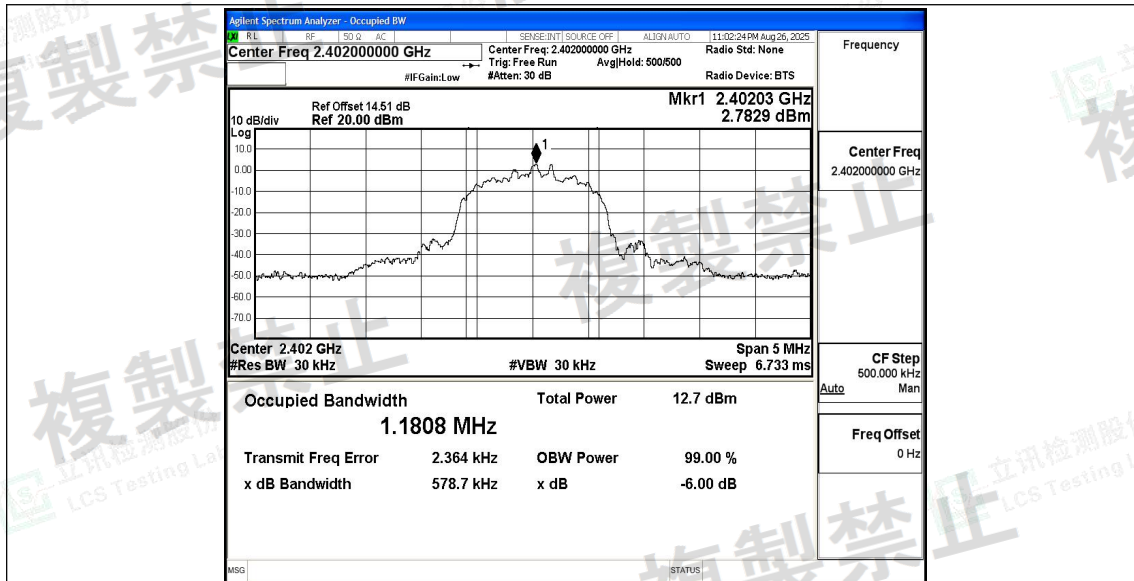
NTNV_2DH5_Ant1_2480



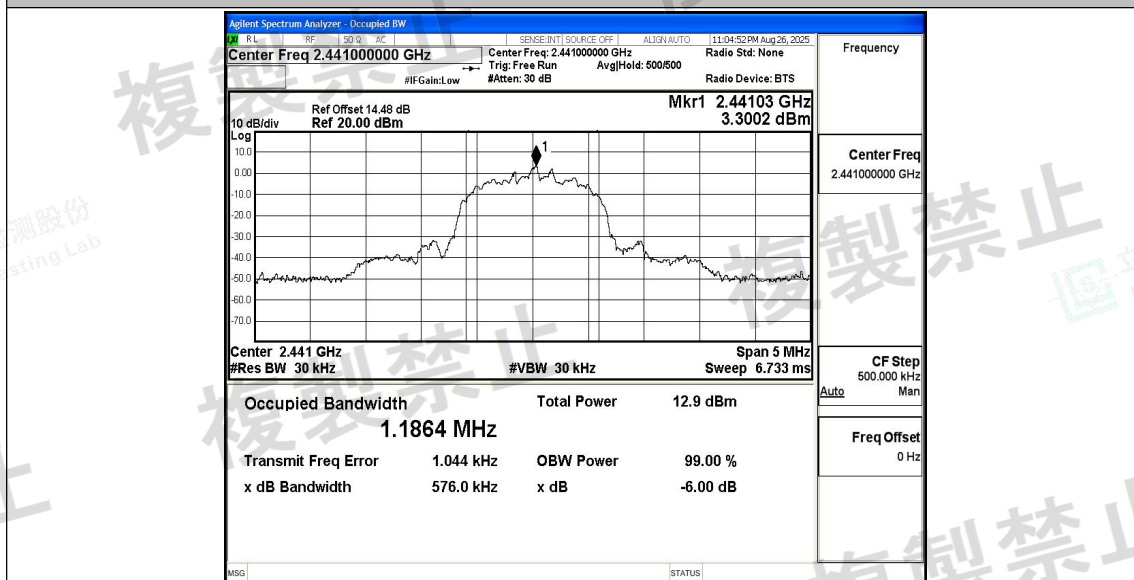
NTNV_3DH5_Ant1_2402



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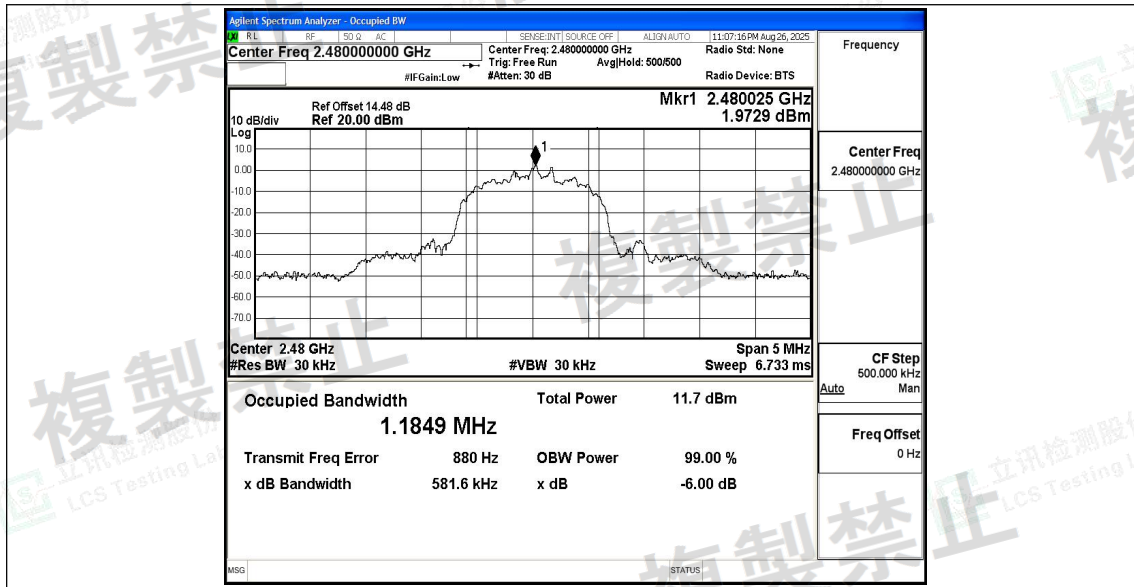
NTNV_3DH5_Ant1_2441



NTNV_3DH5_Ant1_2480



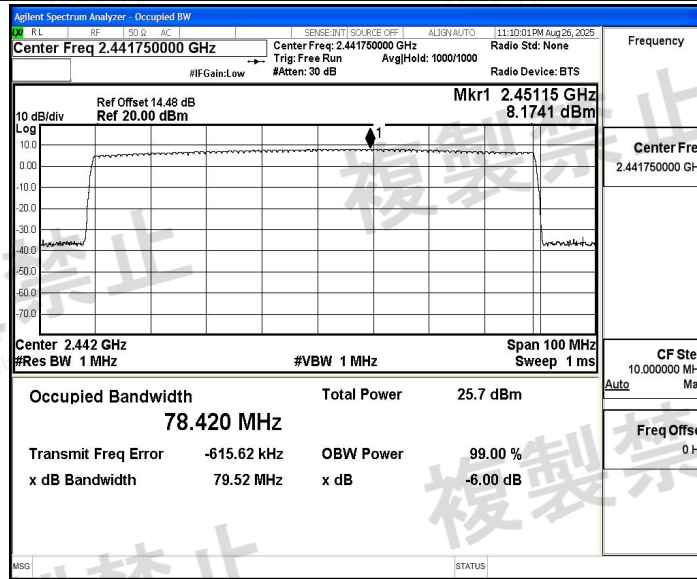
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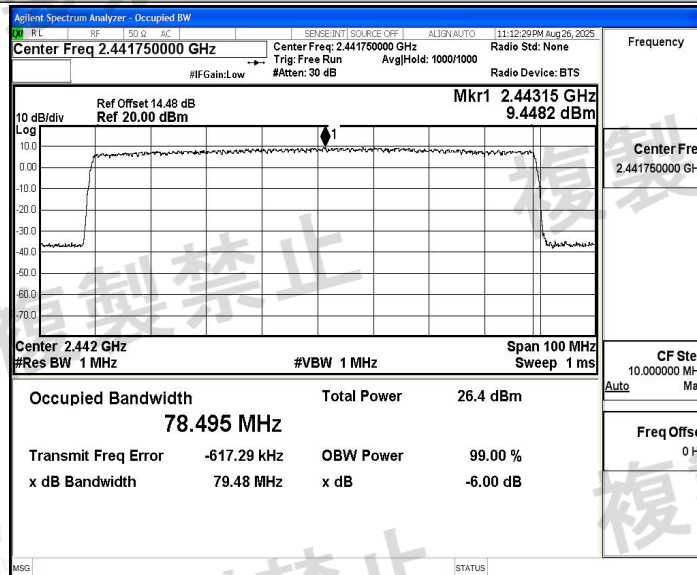
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NTNV_DH5_Ant1_Hop

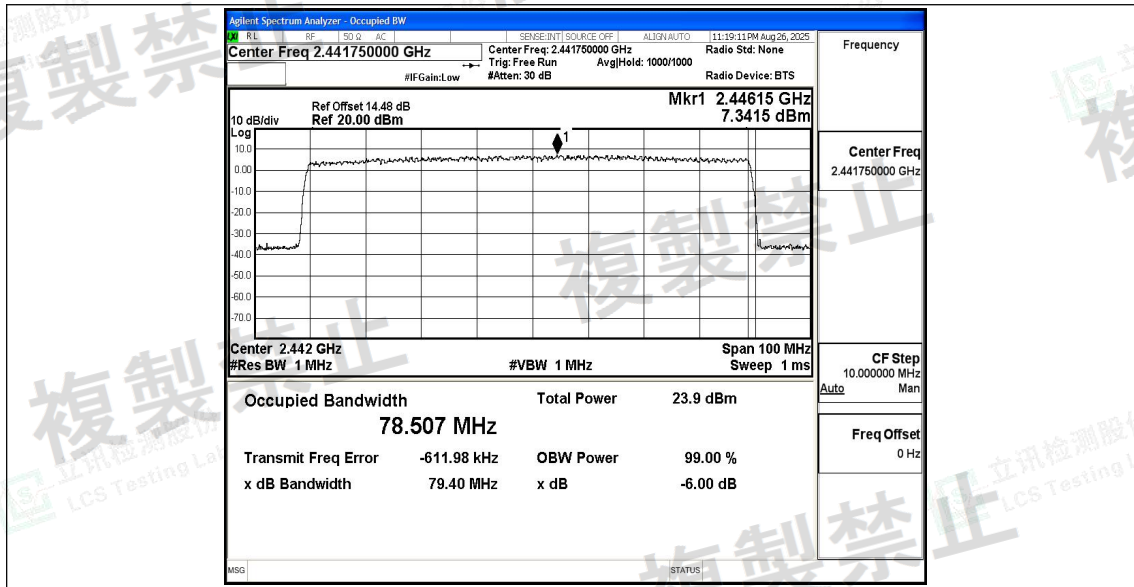


NTNV_2DH5_Ant1_Hop



NTNV_3DH5_Ant1_Hop





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A.4 Spread Bandwidth

Test Result

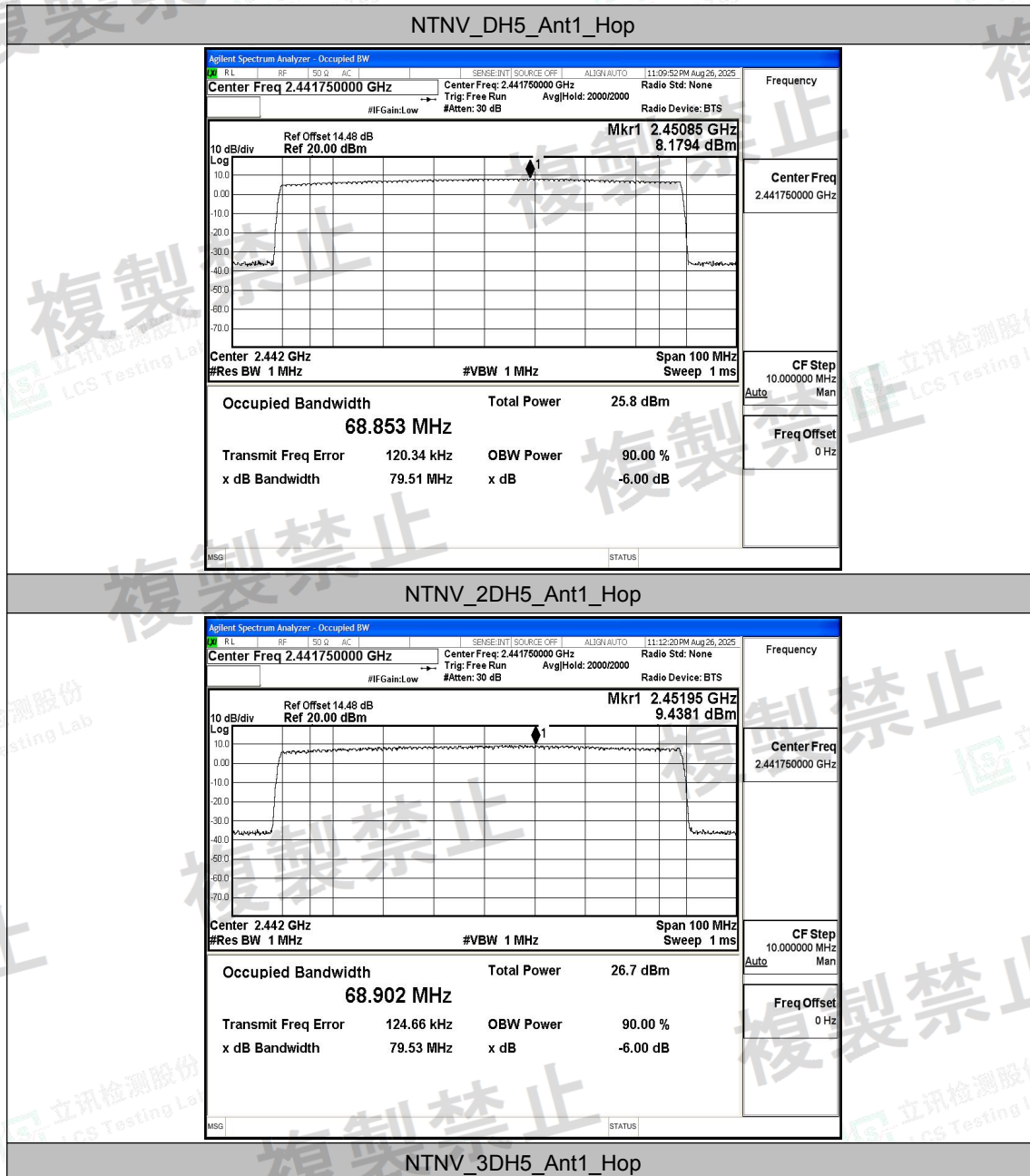
TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	68.853	---	PASS
	2DH5	Ant1	Hop	68.902	---	PASS
	3DH5	Ant1	Hop	68.937	---	PASS



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Test Graphs



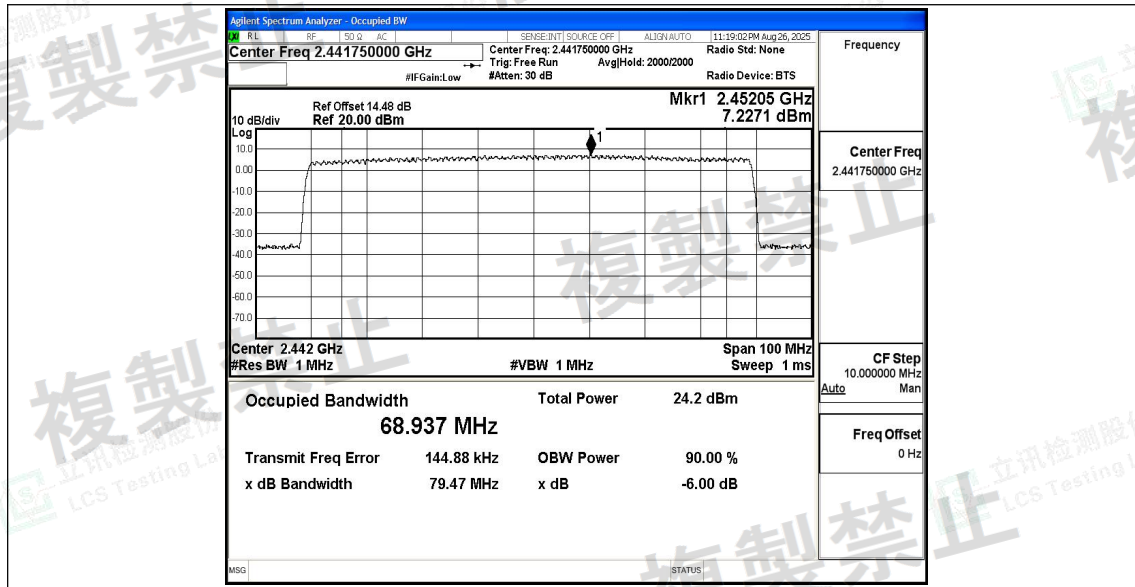
Shenzhen LCS Compliance Testing Laboratory Ltd.

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A.5 Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	-54.00	≤-26	0.00398	≤2.5	PASS
				1000~2387	-52.67	≤-26	0.00541	≤2.5	PASS
				2387~2400	-40.28	≤-16	0.09376	≤25	PASS
				2483.5~2496.5	-43.25	≤-16	0.04732	≤25	PASS
				2496.5~13000	-44.86	≤-26	0.03266	≤2.5	PASS
			2441	30~1000	-54.01	≤-26	0.00397	≤2.5	PASS
				1000~2387	-52.59	≤-26	0.00551	≤2.5	PASS
				2387~2400	-43.39	≤-16	0.04581	≤25	PASS
				2483.5~2496.5	-43.05	≤-16	0.04955	≤25	PASS
				2496.5~13000	-45.21	≤-26	0.03013	≤2.5	PASS
			2480	30~1000	-53.81	≤-26	0.00416	≤2.5	PASS
				1000~2387	-52.57	≤-26	0.00553	≤2.5	PASS
				2387~2400	-42.81	≤-16	0.05236	≤25	PASS
				2483.5~2496.5	-43.26	≤-16	0.04721	≤25	PASS
				2496.5~13000	-45.53	≤-26	0.02799	≤2.5	PASS
	2DH5	Ant1	2402	30~1000	-54.06	≤-26	0.00393	≤2.5	PASS
				1000~2387	-52.57	≤-26	0.00553	≤2.5	PASS
				2387~2400	-32.24	≤-16	0.59704	≤25	PASS
				2483.5~2496.5	-43.26	≤-16	0.04721	≤25	PASS
				2496.5~13000	-45.46	≤-26	0.02844	≤2.5	PASS
			2441	30~1000	-53.86	≤-26	0.00411	≤2.5	PASS
				1000~2387	-52.84	≤-26	0.00520	≤2.5	PASS
				2387~2400	-43.24	≤-16	0.04742	≤25	PASS
				2483.5~2496.5	-43.10	≤-16	0.04898	≤25	PASS
				2496.5~13000	-44.85	≤-26	0.03273	≤2.5	PASS
			2480	30~1000	-53.77	≤-26	0.00420	≤2.5	PASS
				1000~2387	-52.75	≤-26	0.00531	≤2.5	PASS
				2387~2400	-43.46	≤-16	0.04508	≤25	PASS
				2483.5~2496.5	-43.33	≤-16	0.04645	≤25	PASS
				2496.5~13000	-45.56	≤-26	0.02780	≤2.5	PASS
	3DH5	Ant1	2402	30~1000	-54.03	≤-26	0.00395	≤2.5	PASS
				1000~2387	-52.71	≤-26	0.00536	≤2.5	PASS
				2387~2400	-32.52	≤-16	0.55976	≤25	PASS
				2483.5~2496.5	-42.99	≤-16	0.05023	≤25	PASS
				2496.5~13000	-45.43	≤-26	0.02864	≤2.5	PASS

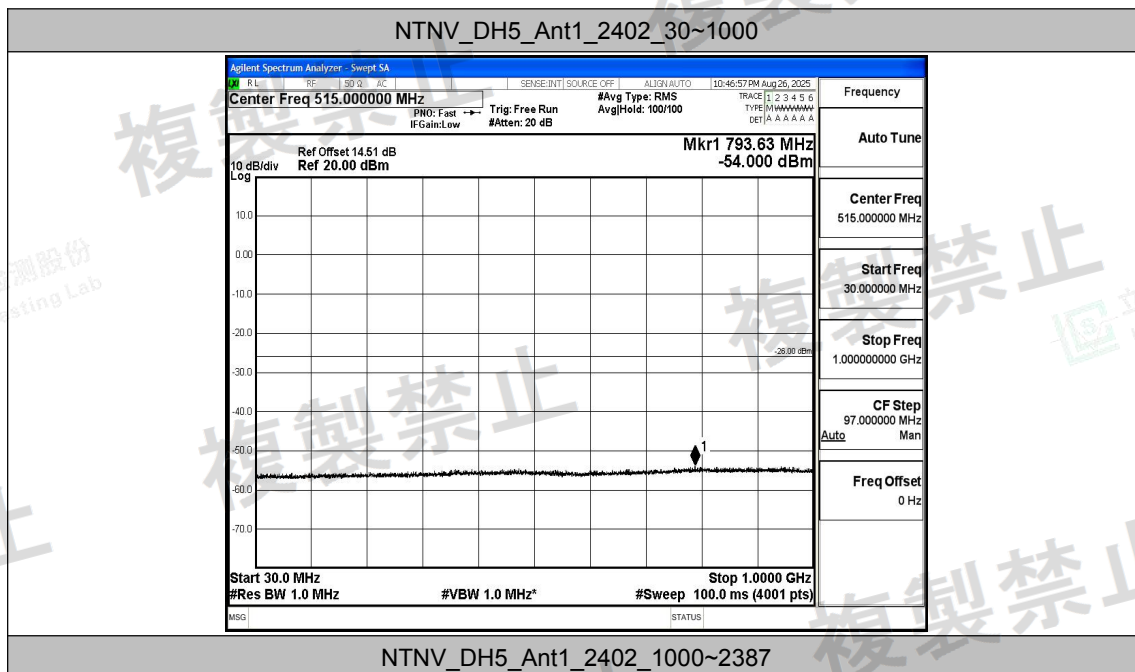


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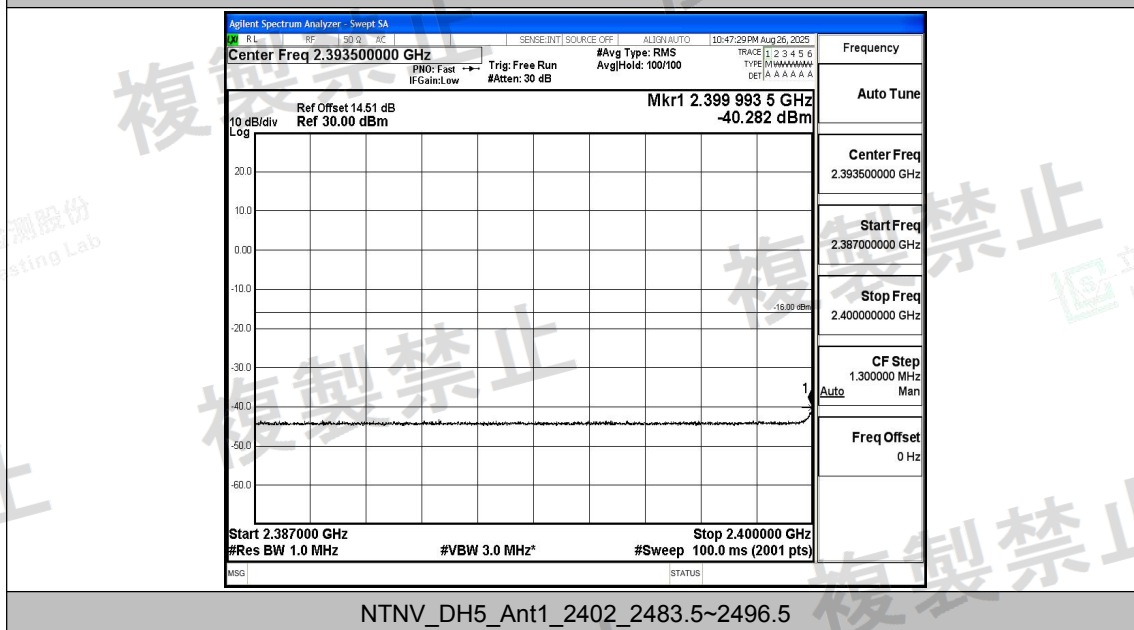
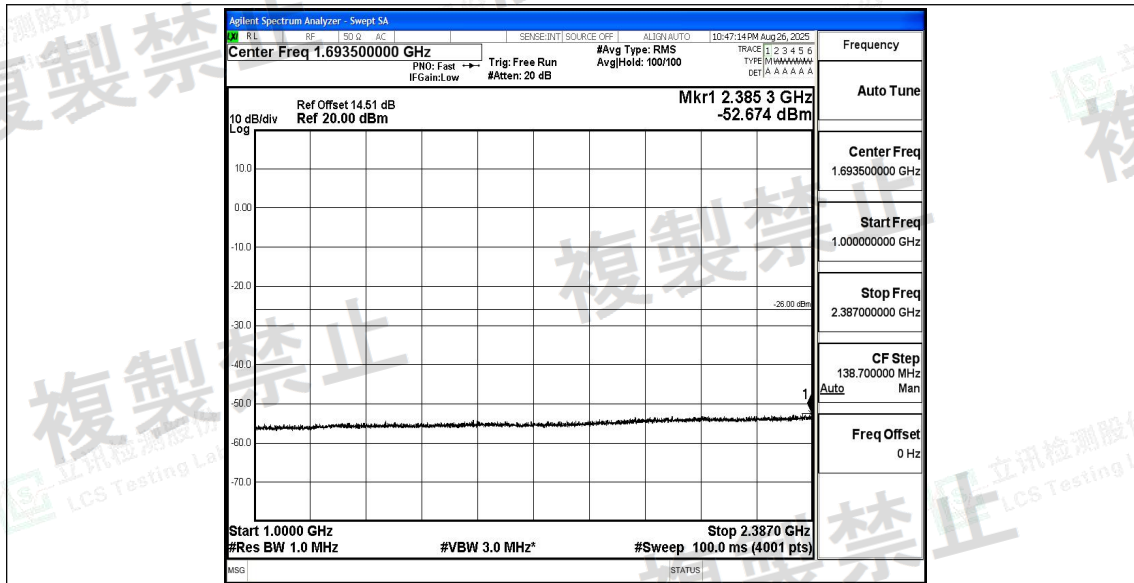


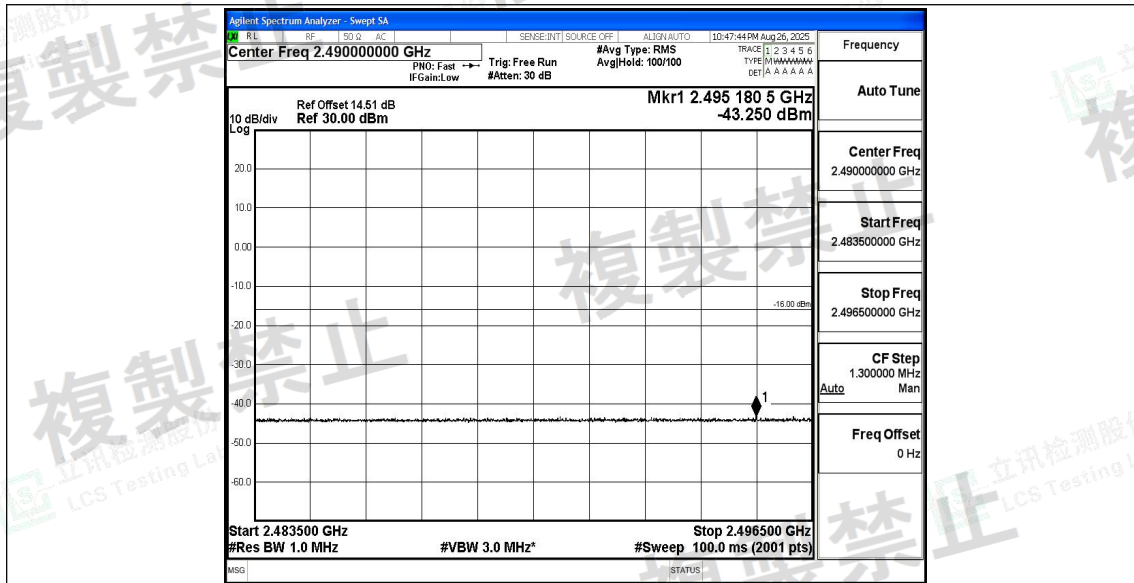
		2441	30~1000	-53.84	≤-26	0.00413	≤2.5	PASS
			1000~2387	-52.50	≤-26	0.00562	≤2.5	PASS
			2387~2400	-43.41	≤-16	0.04560	≤25	PASS
			2483.5~2496.5	-43.25	≤-16	0.04732	≤25	PASS
			2496.5~13000	-45.62	≤-26	0.02742	≤2.5	PASS
		2480	30~1000	-53.62	≤-26	0.00435	≤2.5	PASS
			1000~2387	-52.57	≤-26	0.00553	≤2.5	PASS
			2387~2400	-43.32	≤-16	0.04656	≤25	PASS
			2483.5~2496.5	-43.19	≤-16	0.04797	≤25	PASS
			2496.5~13000	-45.67	≤-26	0.02710	≤2.5	PASS

Test Graphs

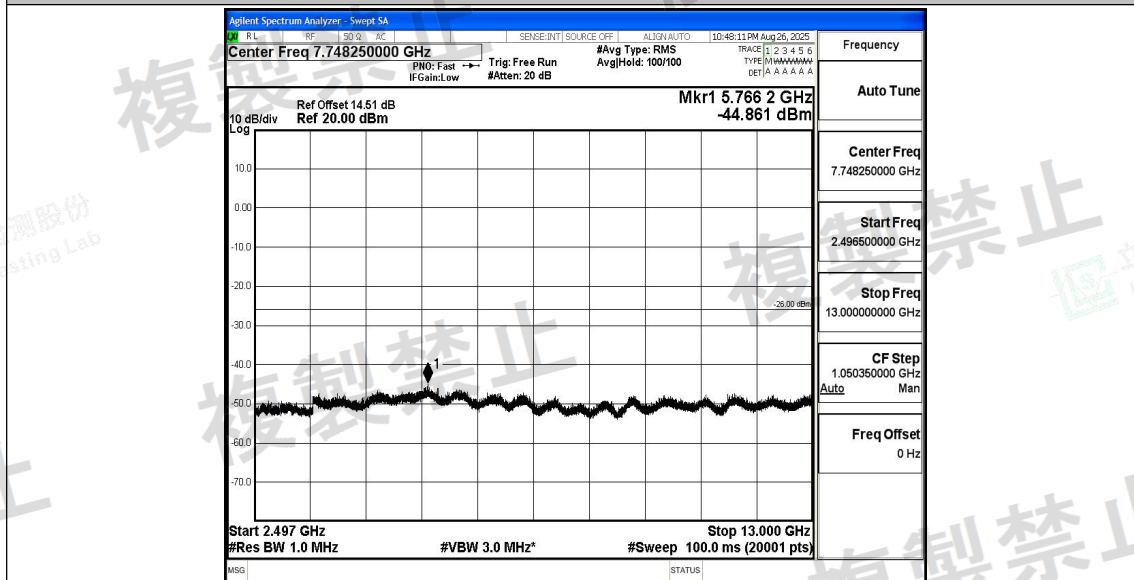


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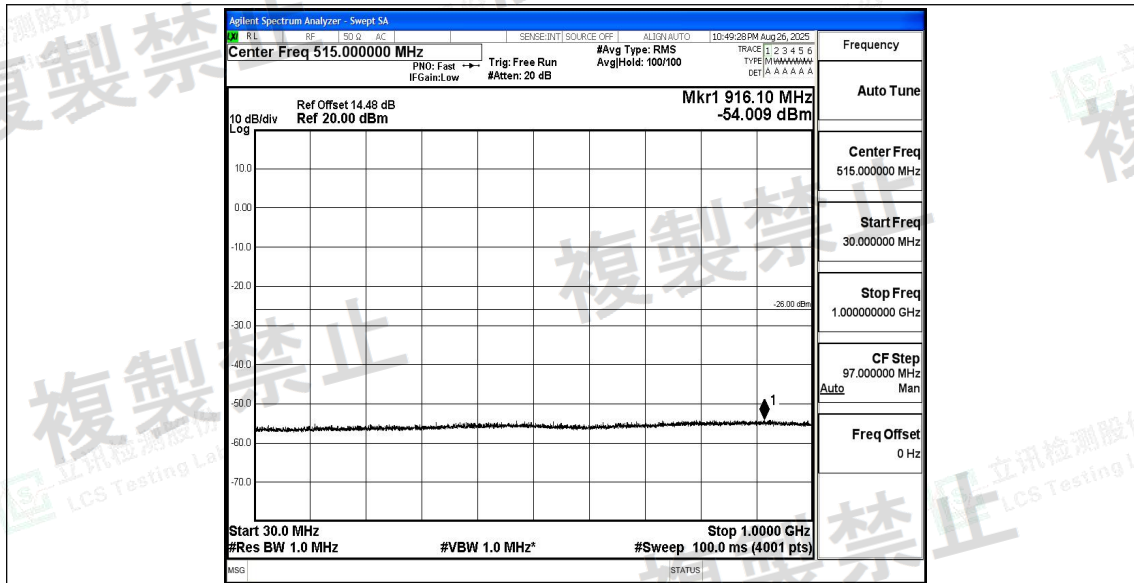
NTNV_DH5_Ant1_2402_2496.5~13000



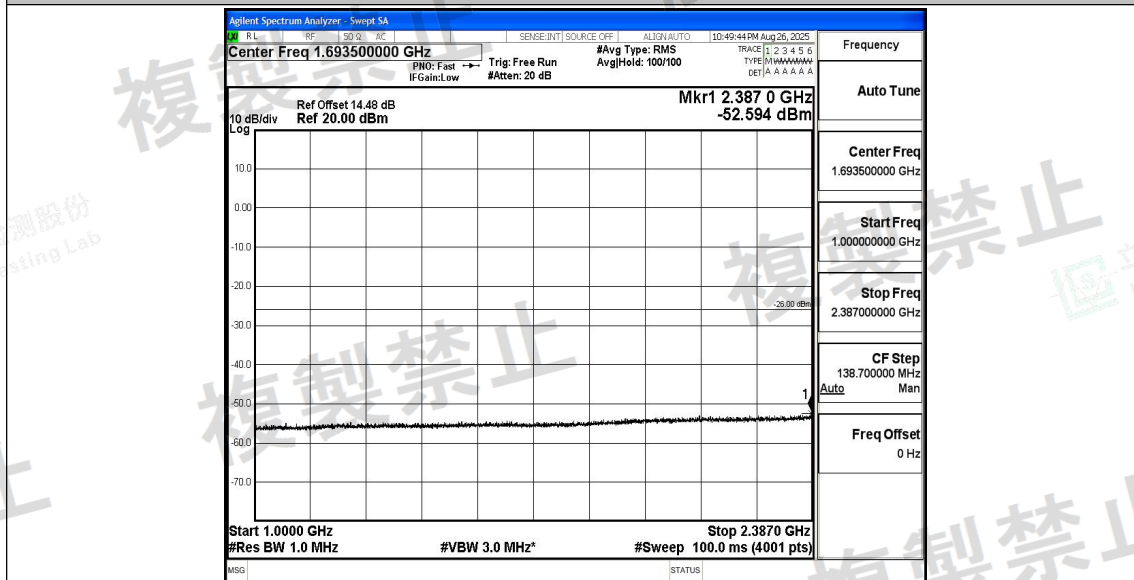
NTNV_DH5_Ant1_2441_30~1000



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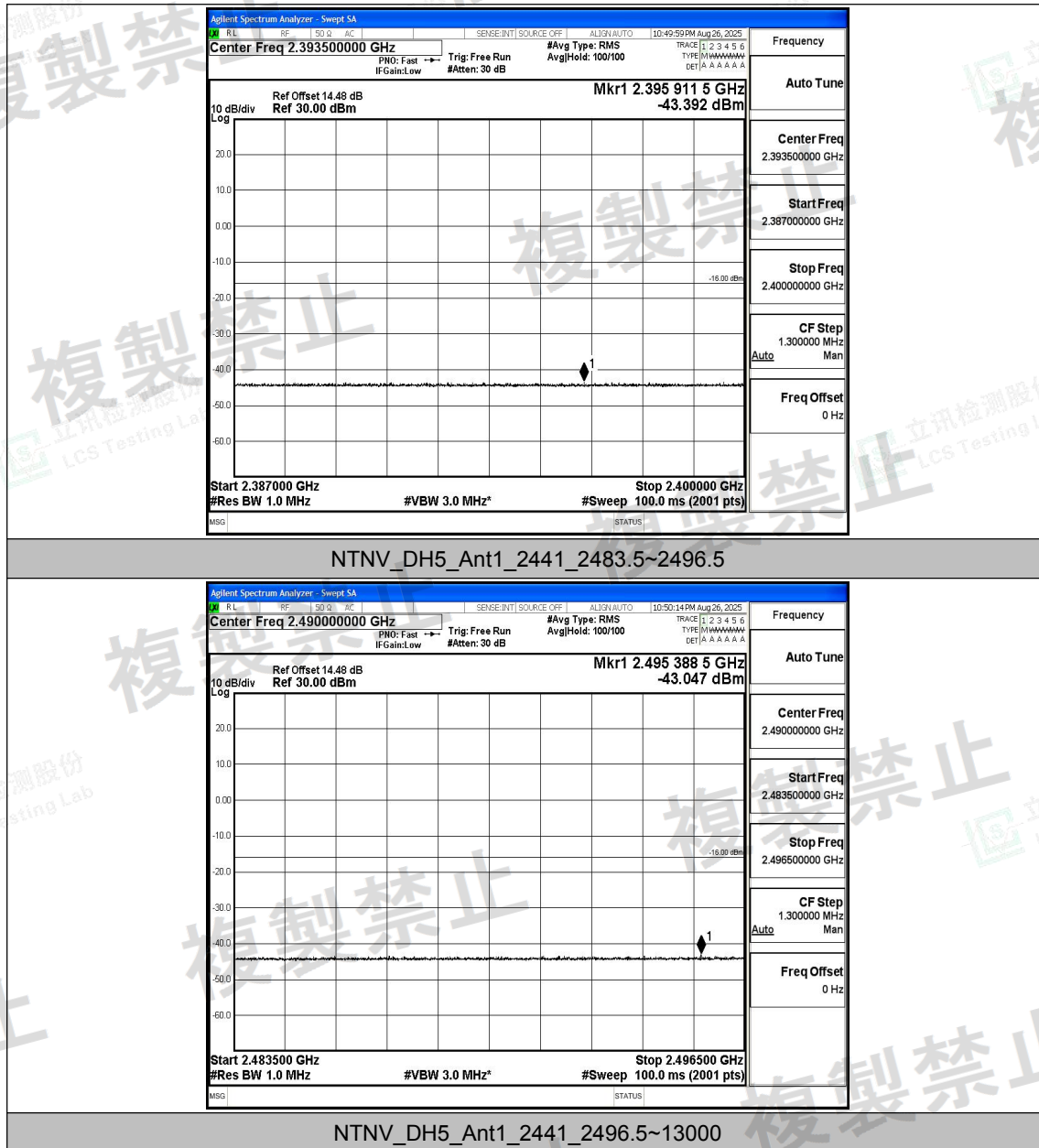
NTNV_DH5_Ant1_2441_1000~2387



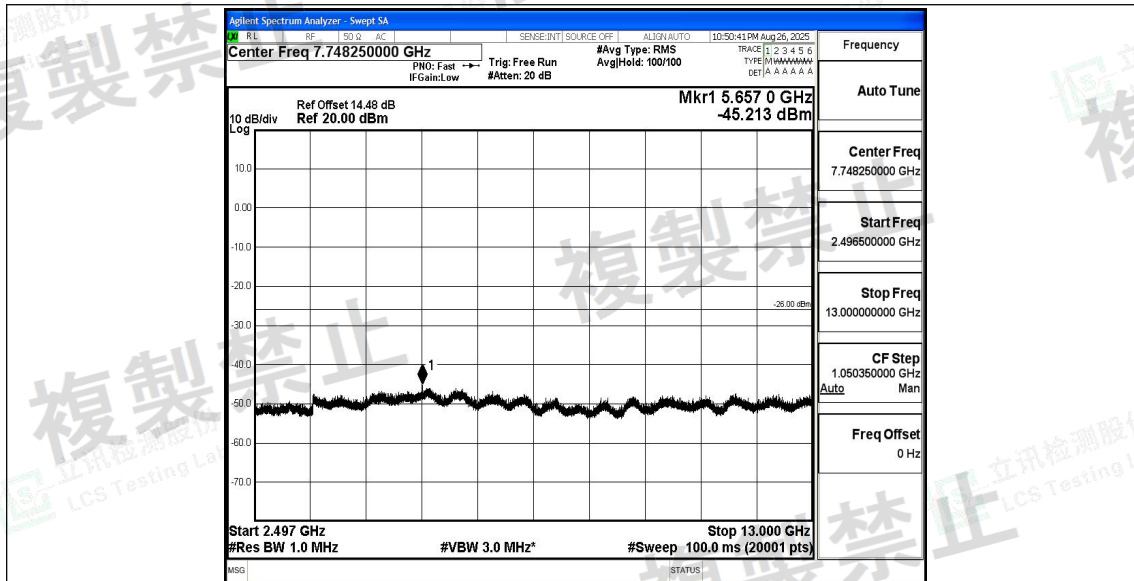
NTNV_DH5_Ant1_2441_2387~2400



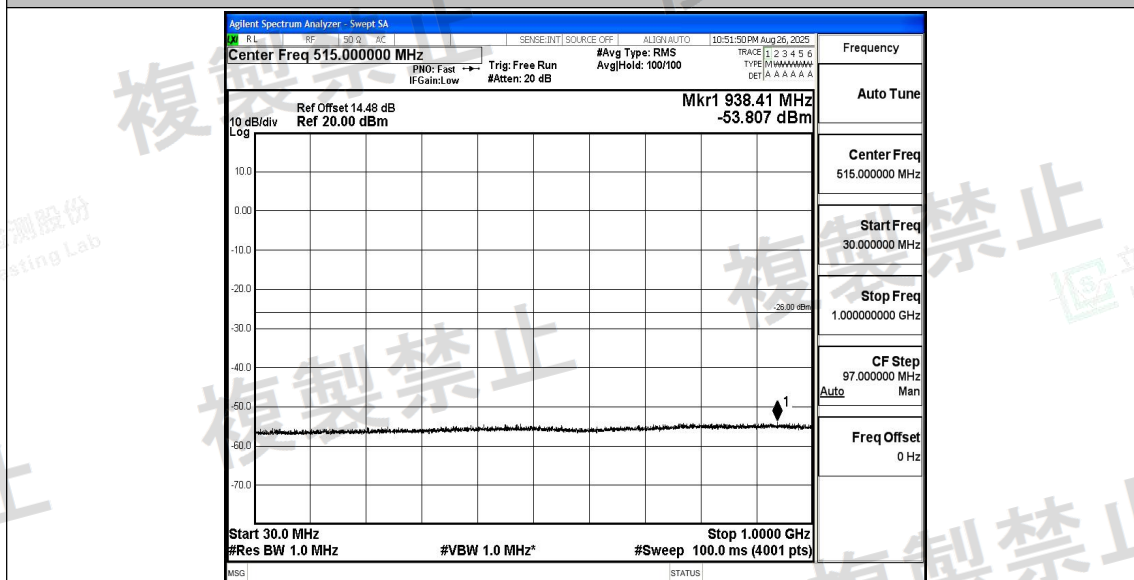
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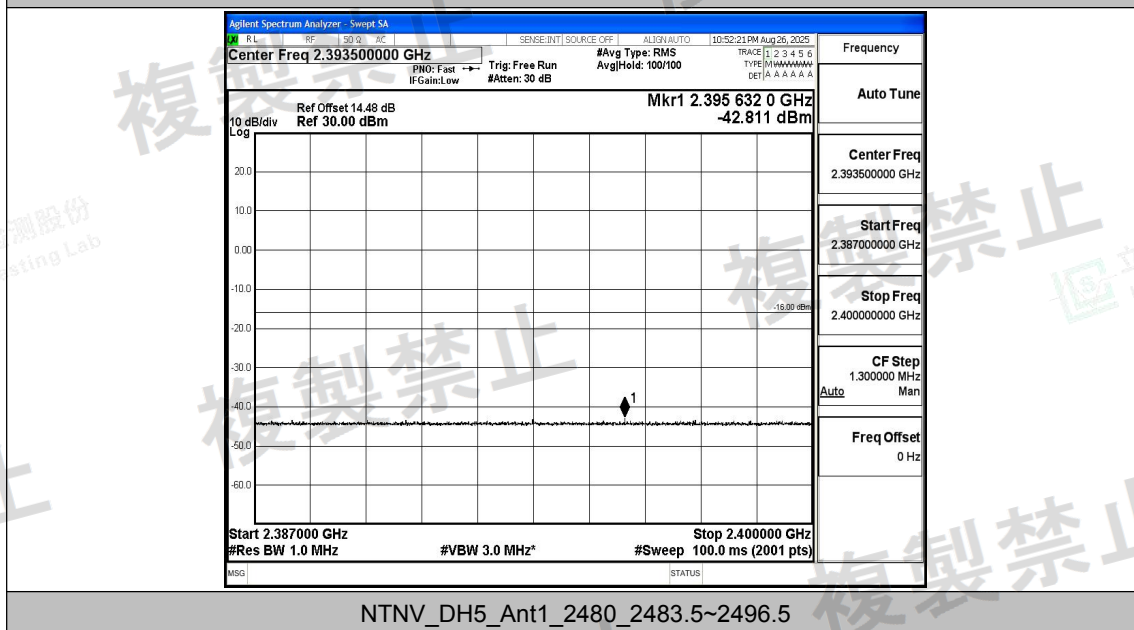
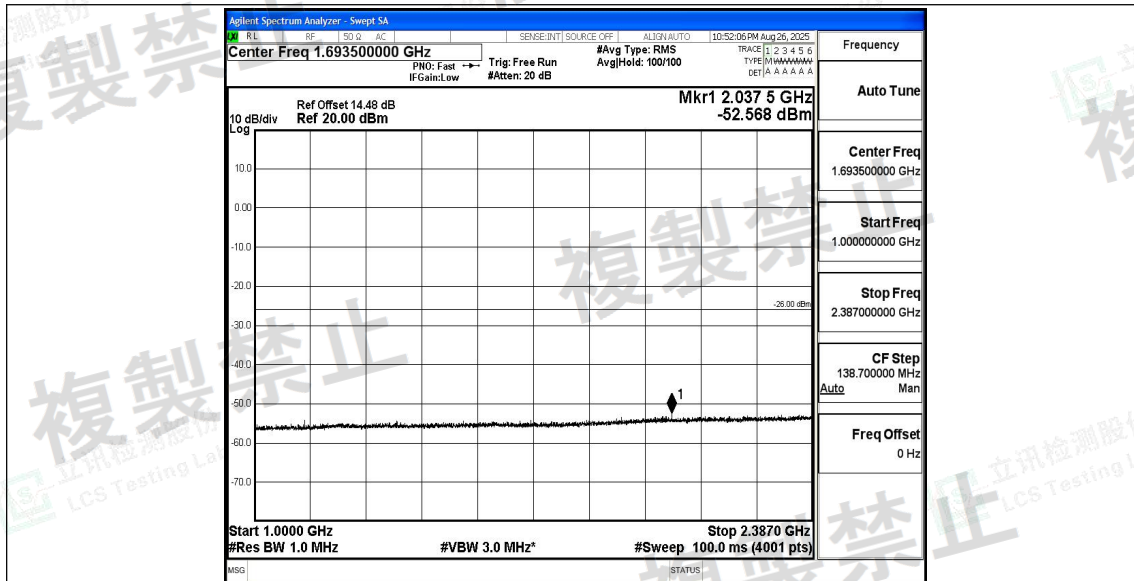


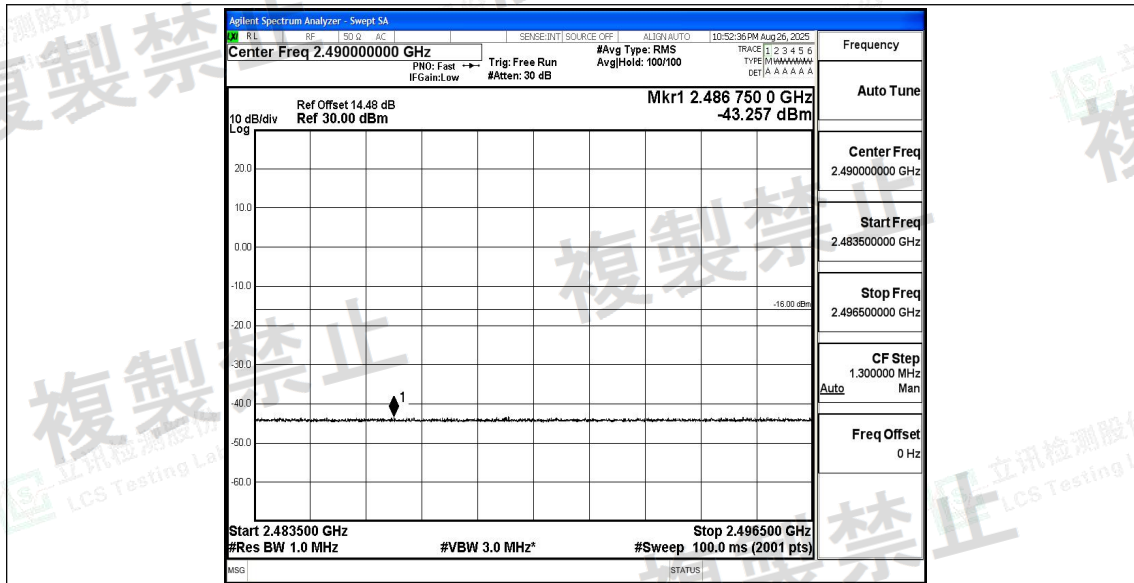
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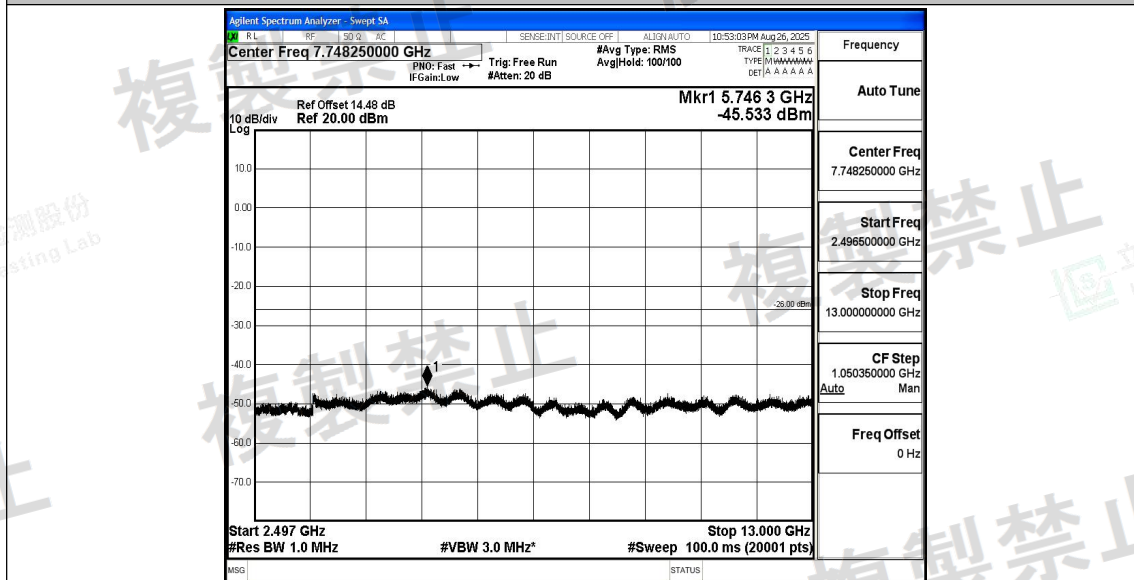
NTNV_DH5_Ant1_2480_1000~2387







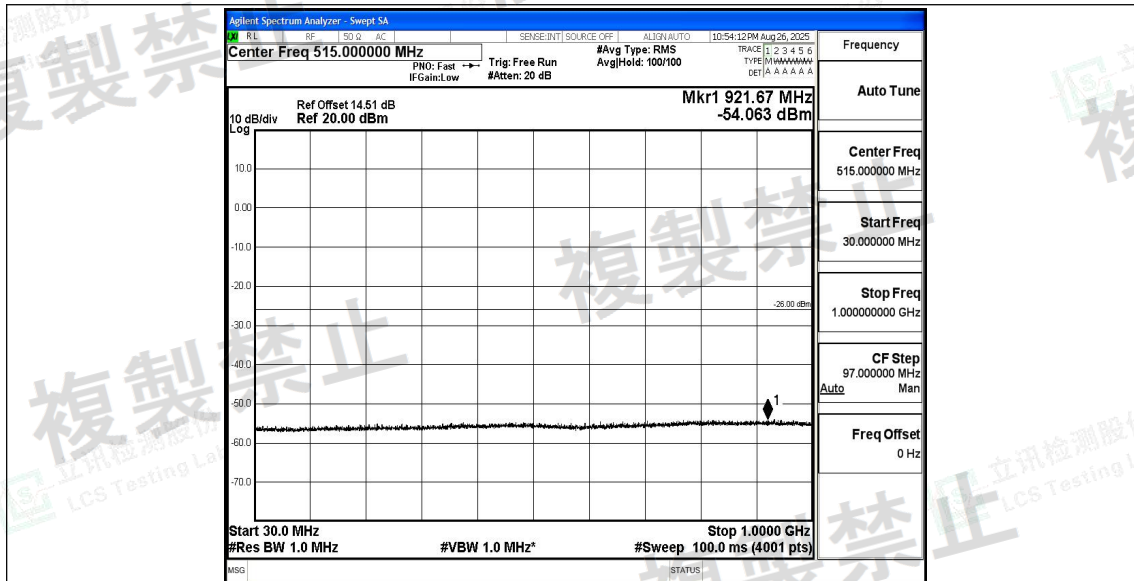
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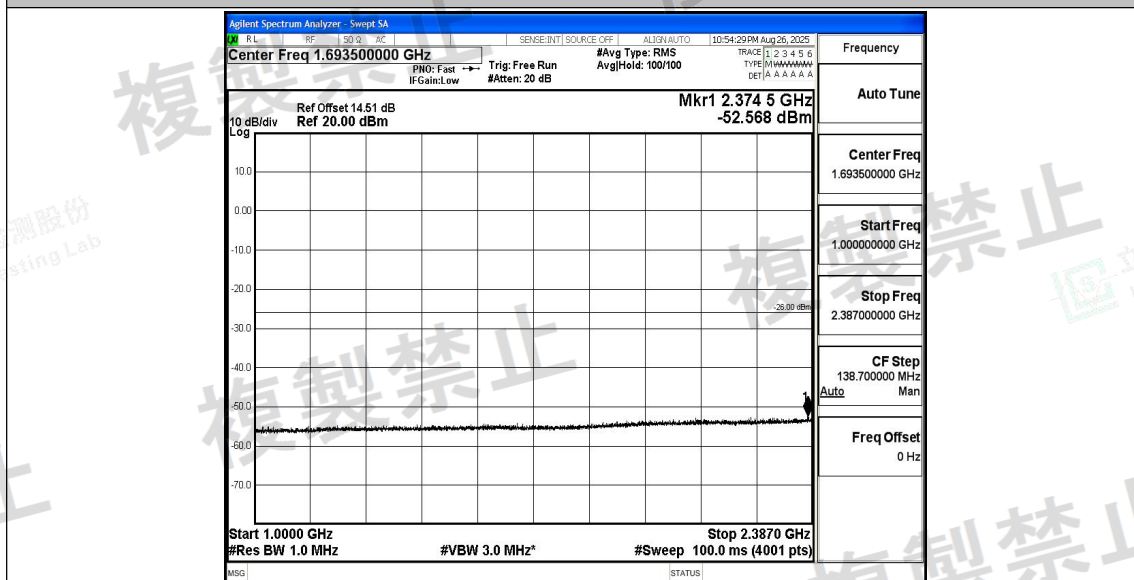
NTNV_2DH5_Ant1_2402_30~1000



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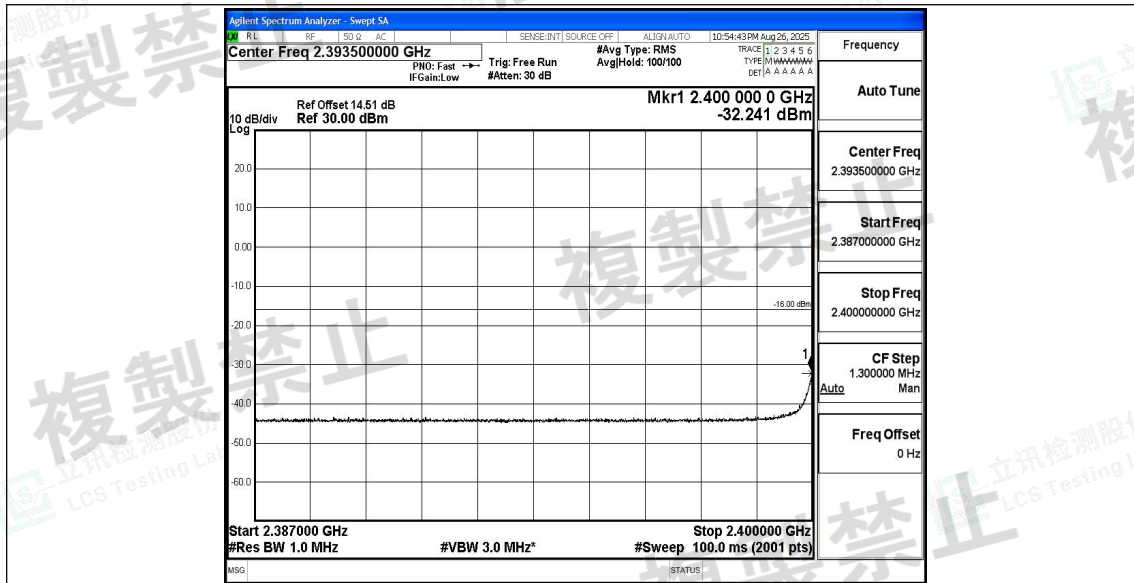
NTNV_2DH5_Ant1_2402_1000~2387



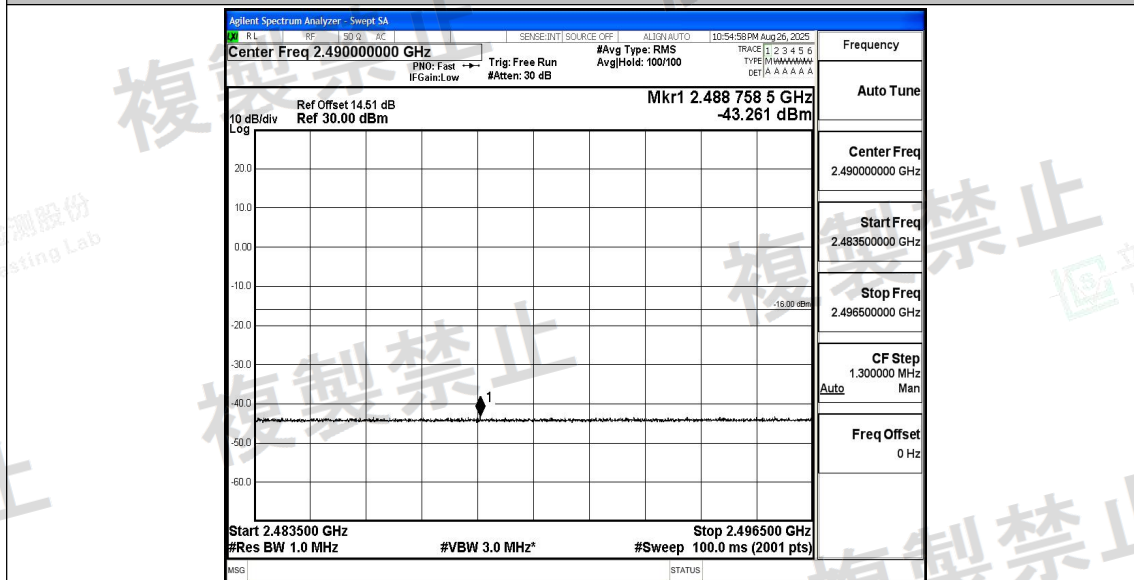
NTNV_2DH5_Ant1_2402_2387~2400



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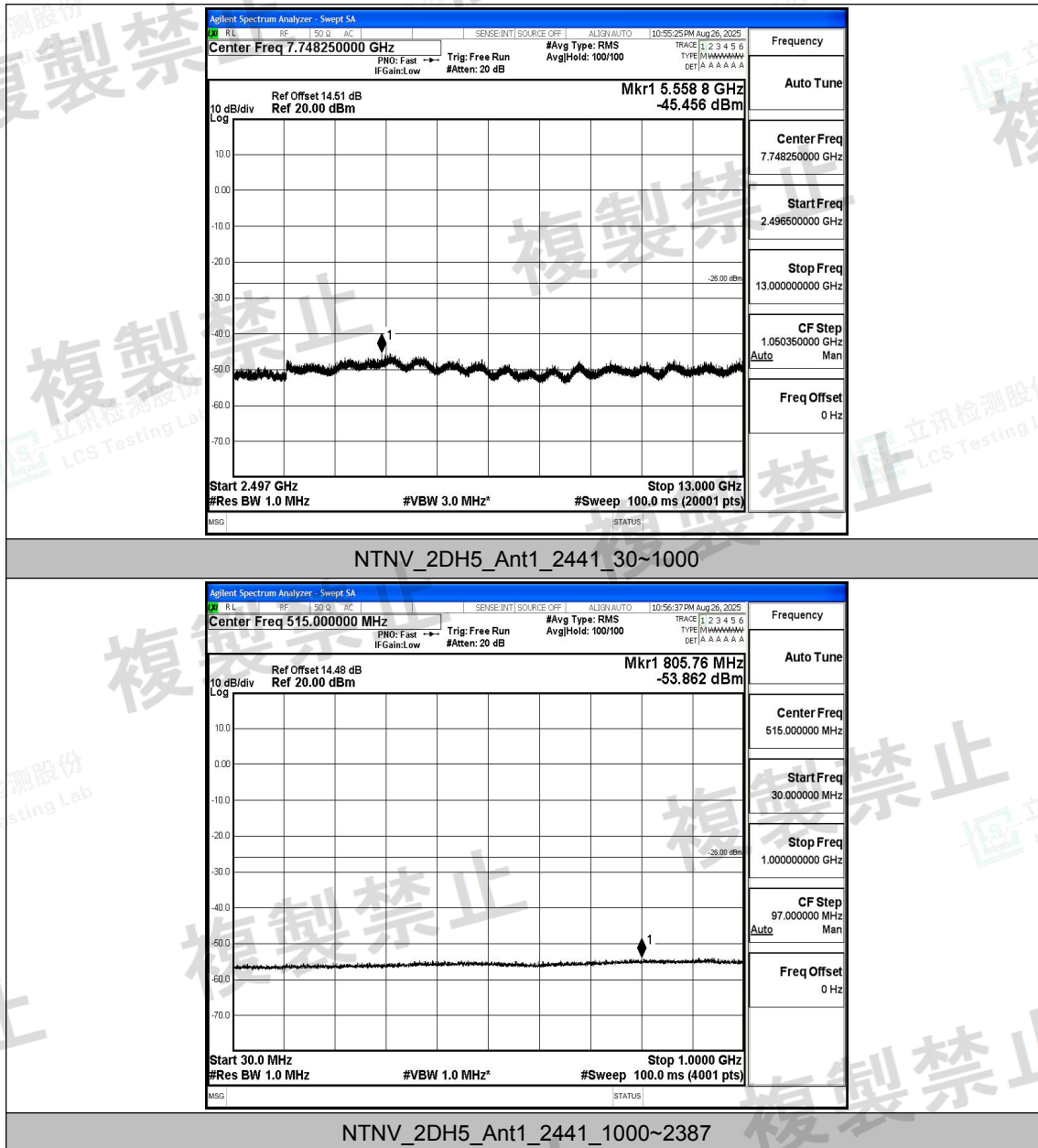
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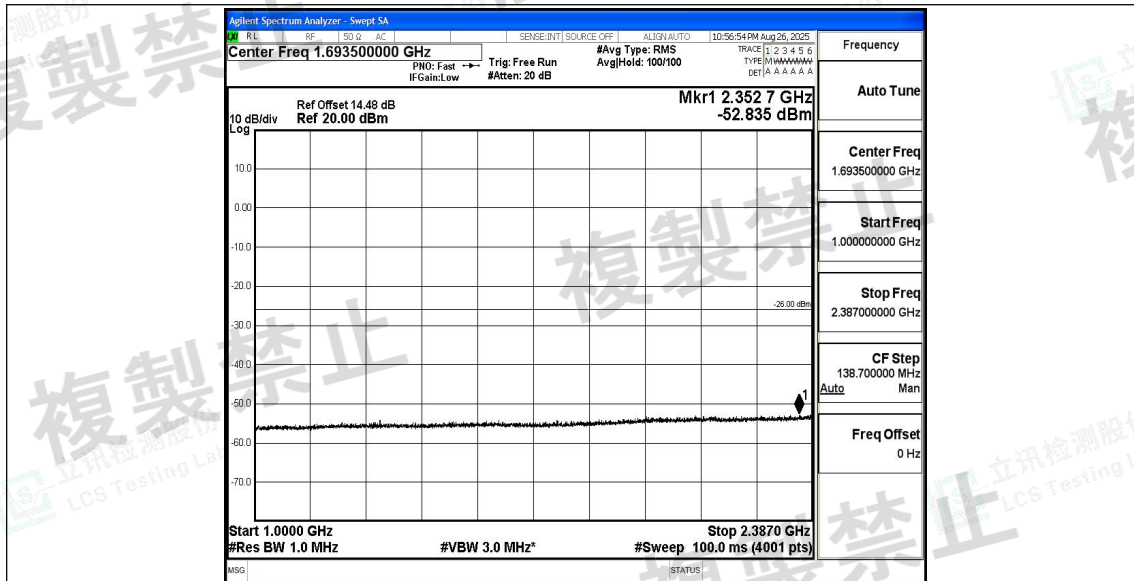


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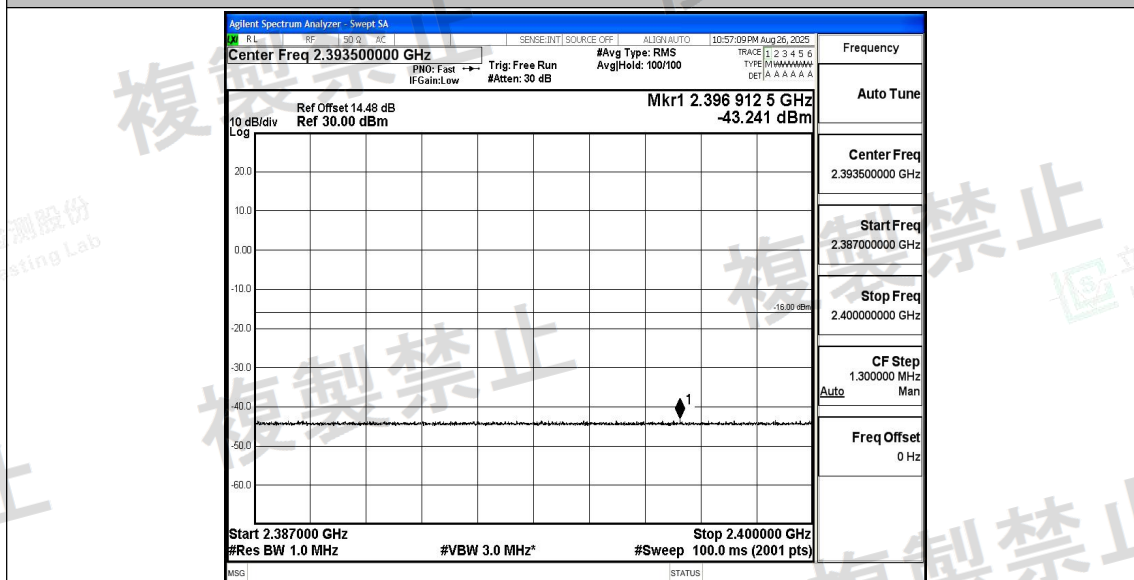


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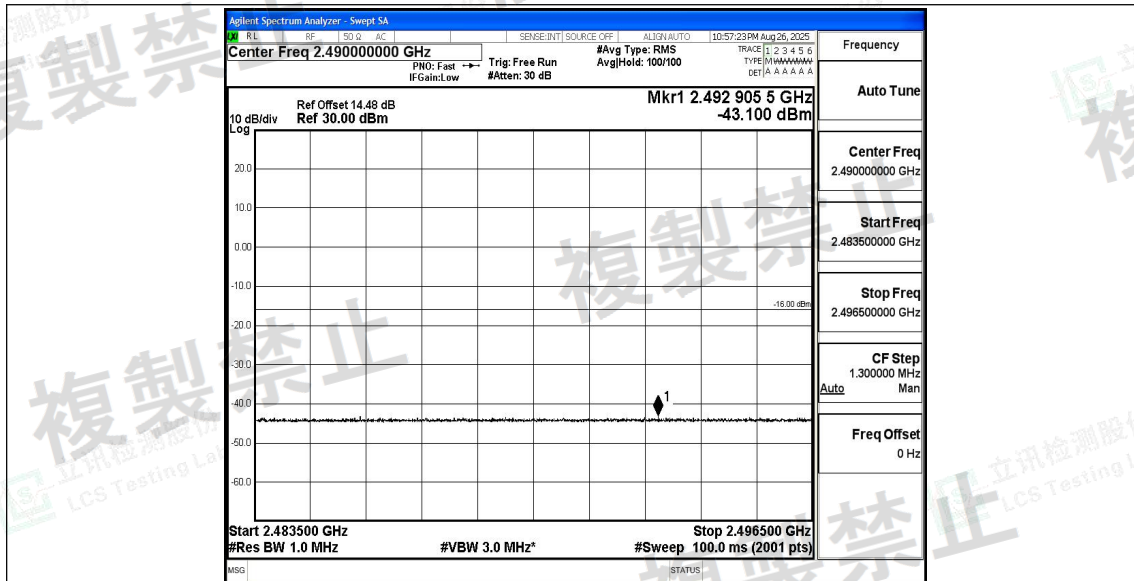
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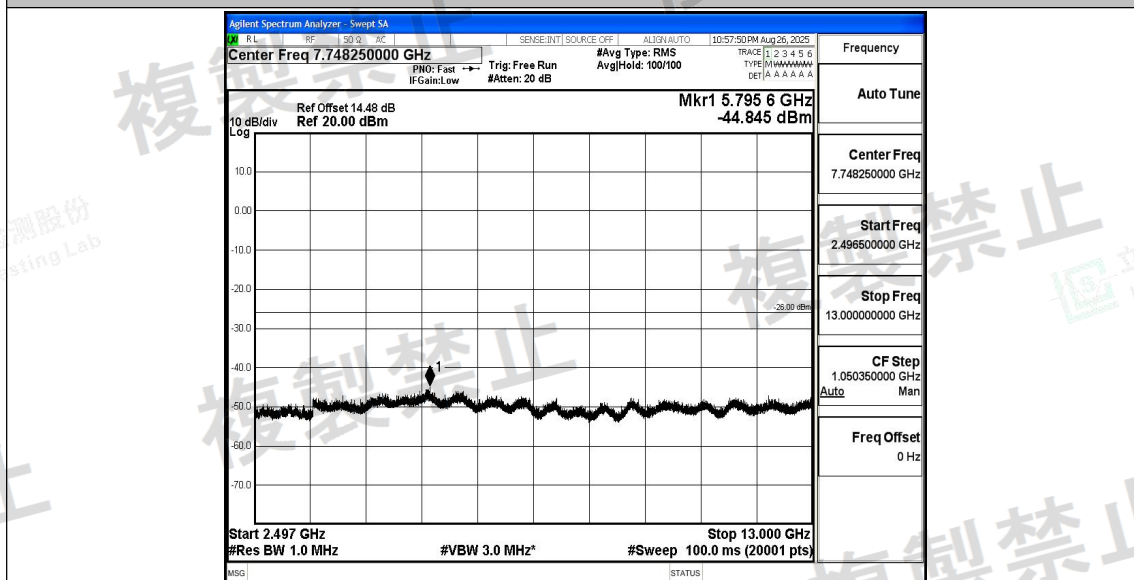
NTNV_2DH5_Ant1_2441_2483.5~2496.5



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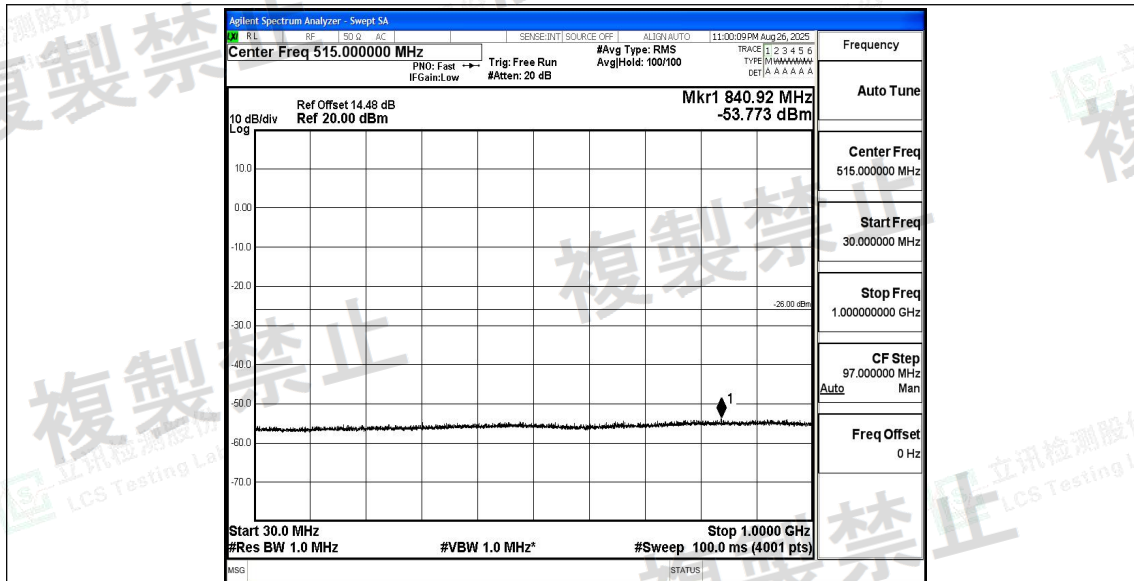
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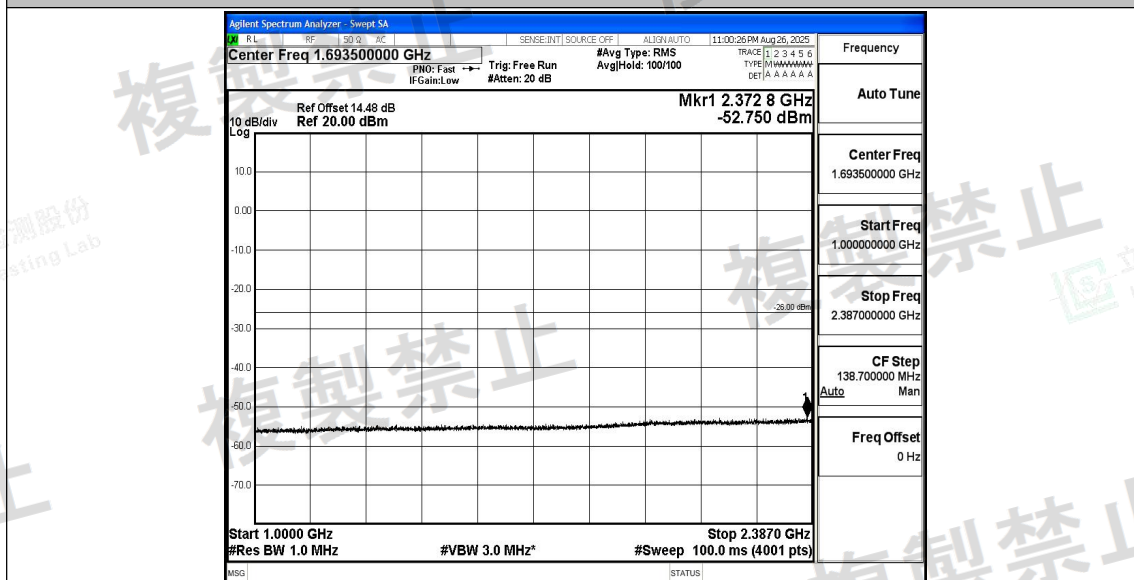
NTNV_2DH5_Ant1_2480_30~1000



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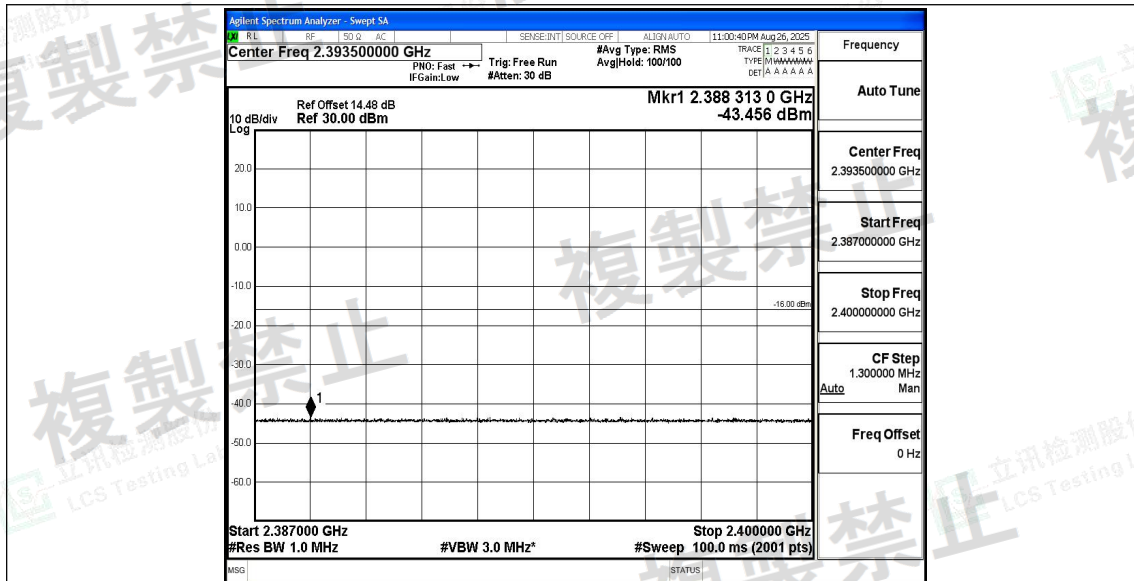
NTNV_2DH5_Ant1_2480_1000~2387



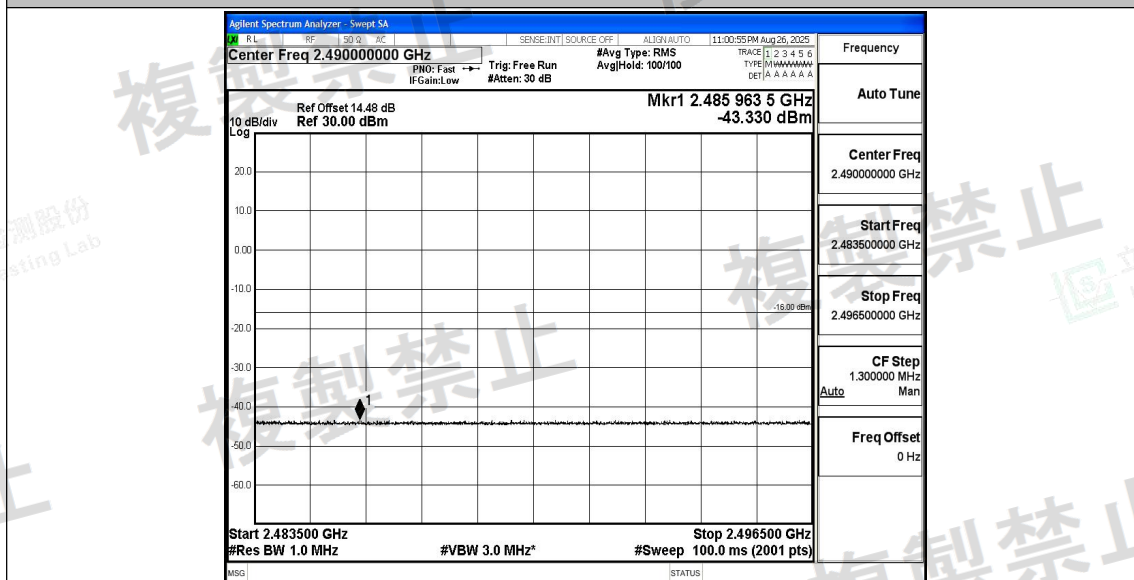
NTNV_2DH5_Ant1_2480_2387~2400



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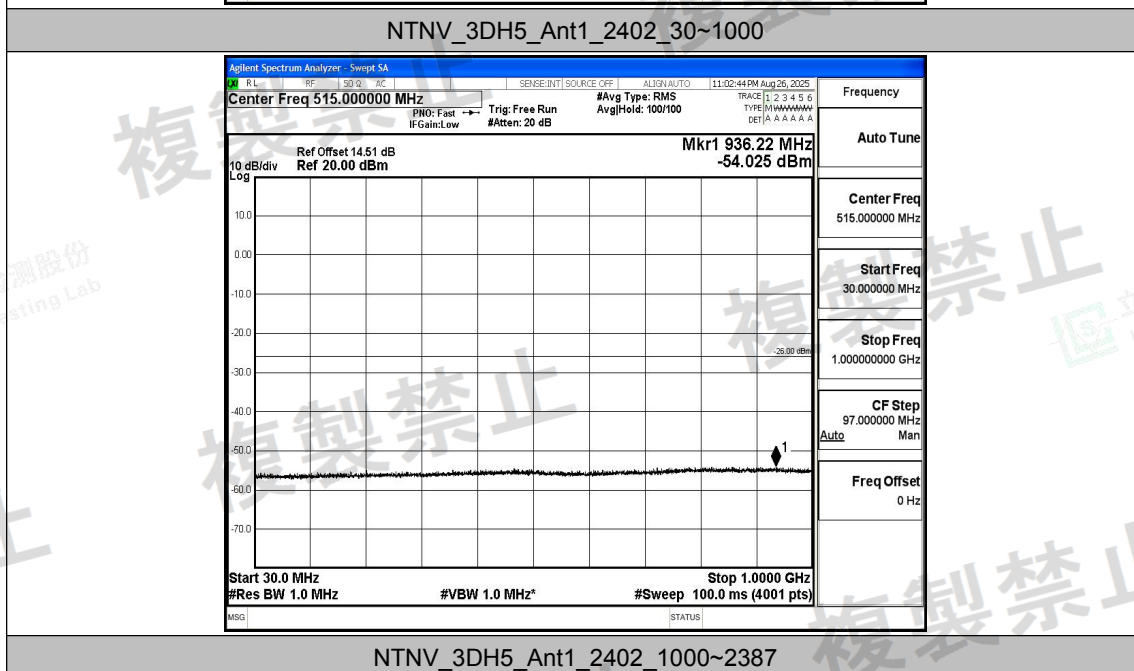
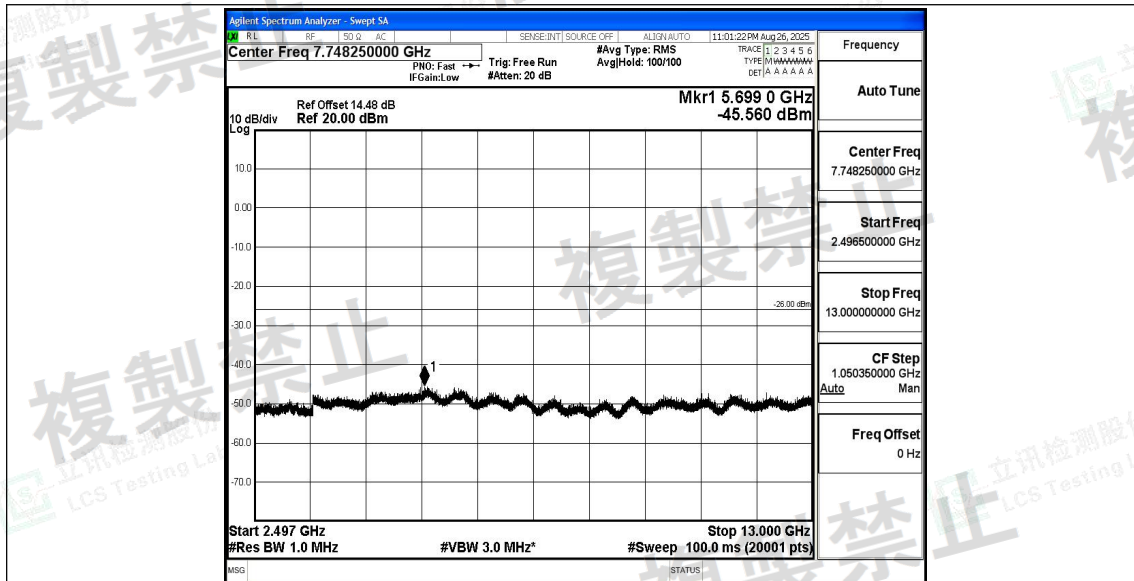
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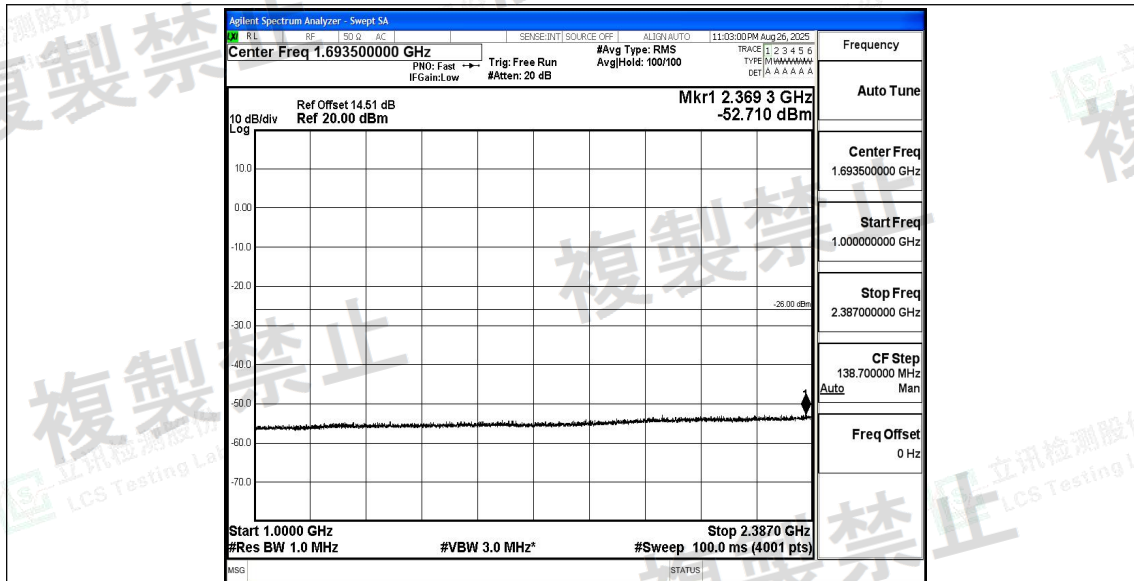


NTNV_2DH5_Ant1_2480_2496.5~13000

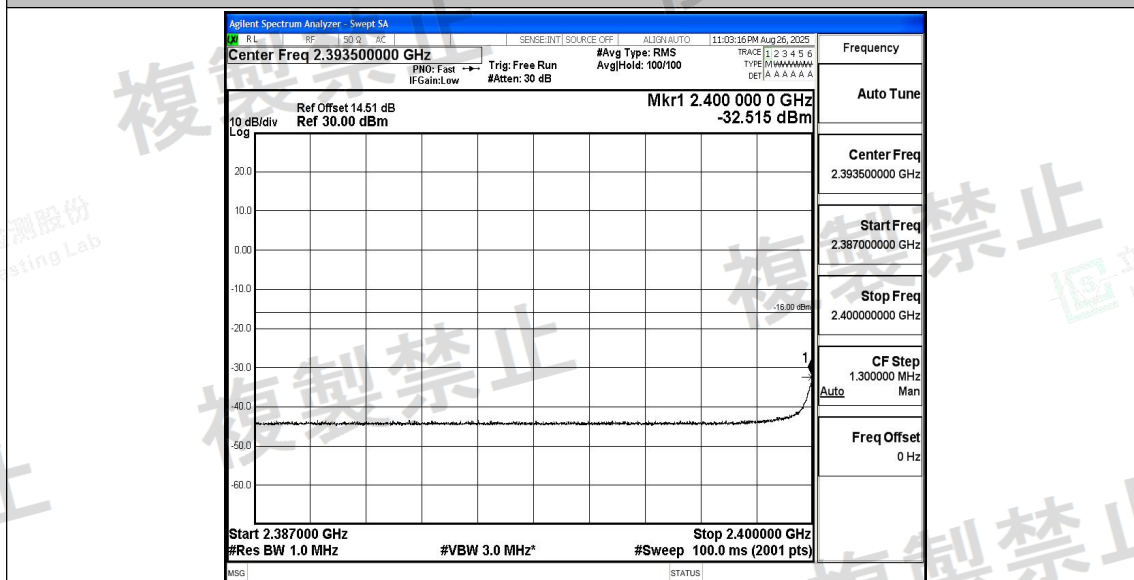


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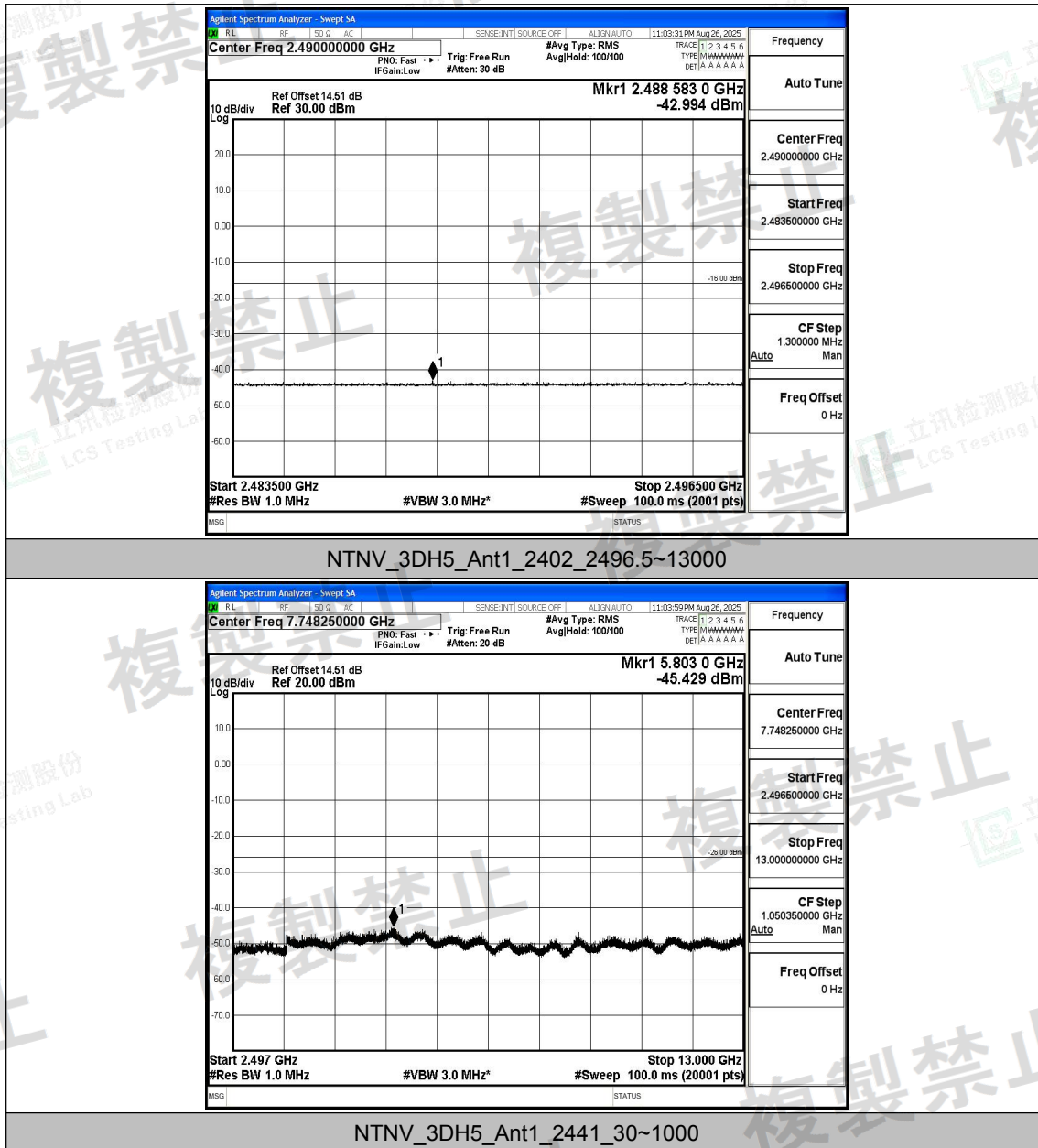
NTNV_3DH5_Ant1_2402_2387~2400



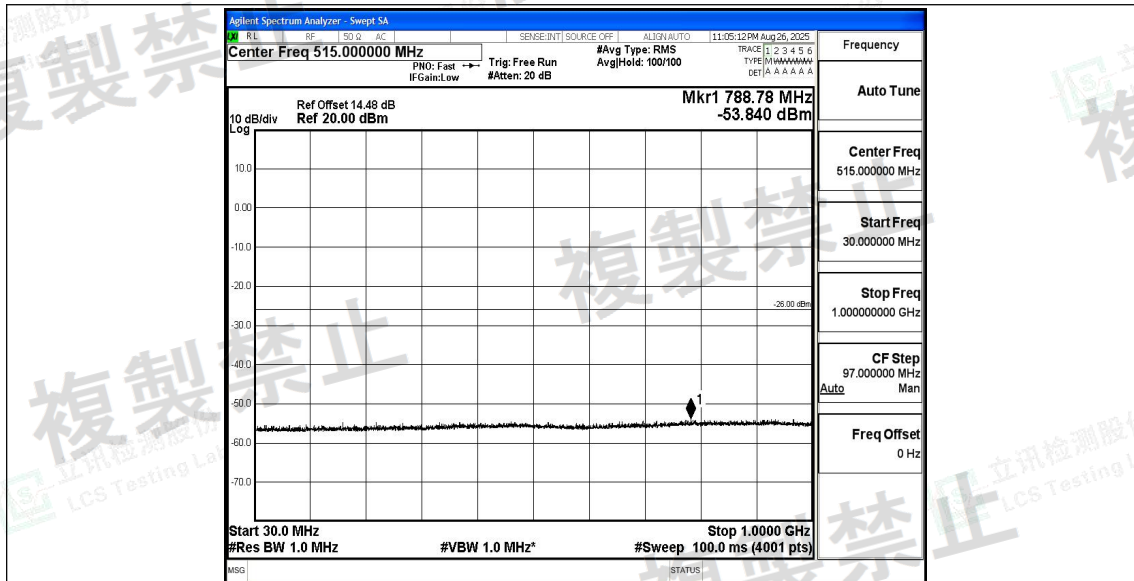
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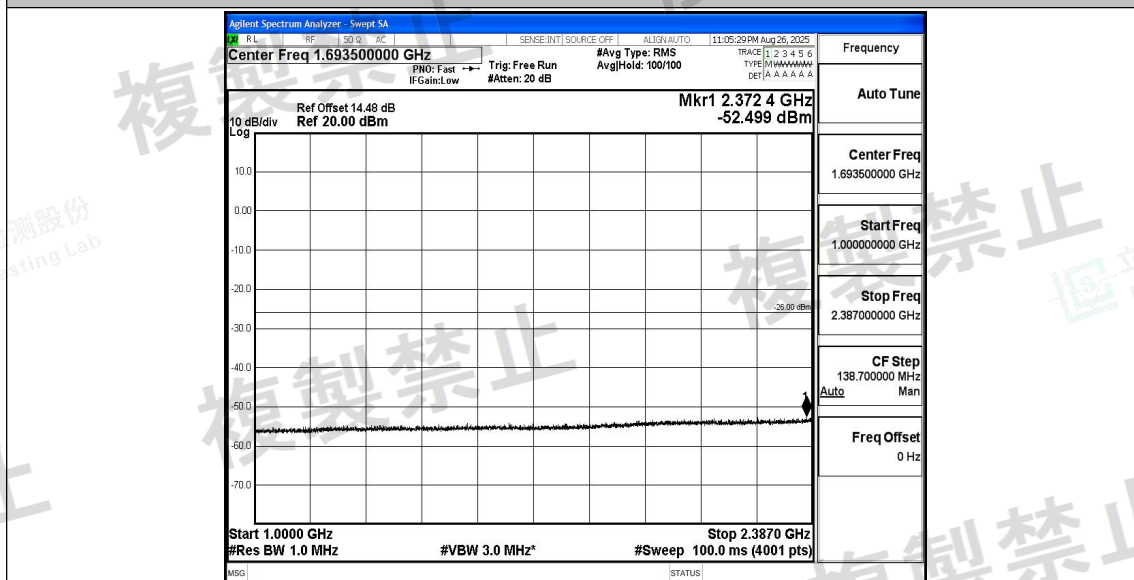
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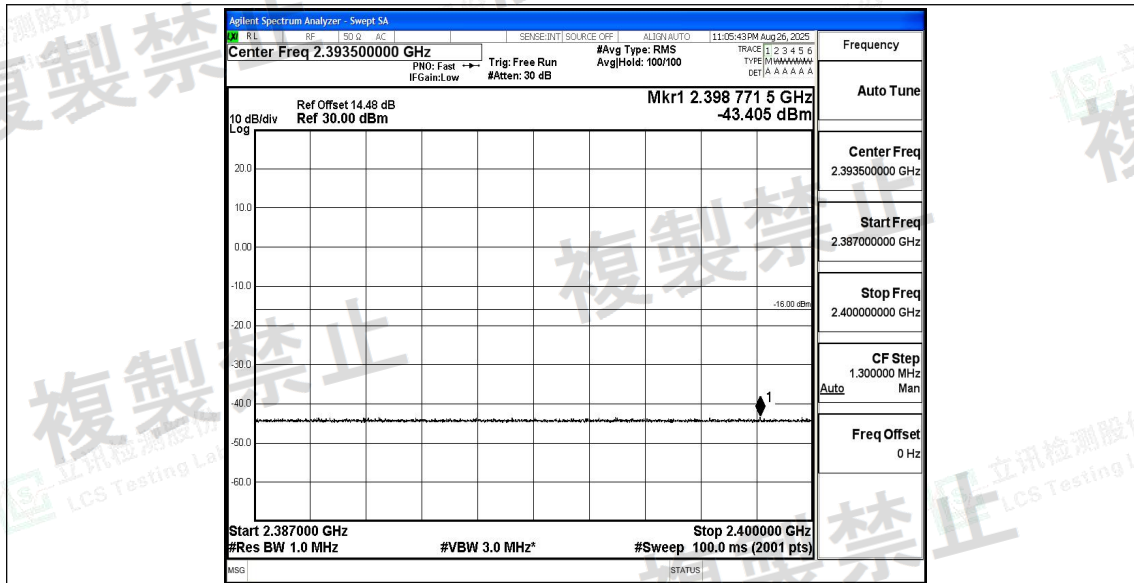
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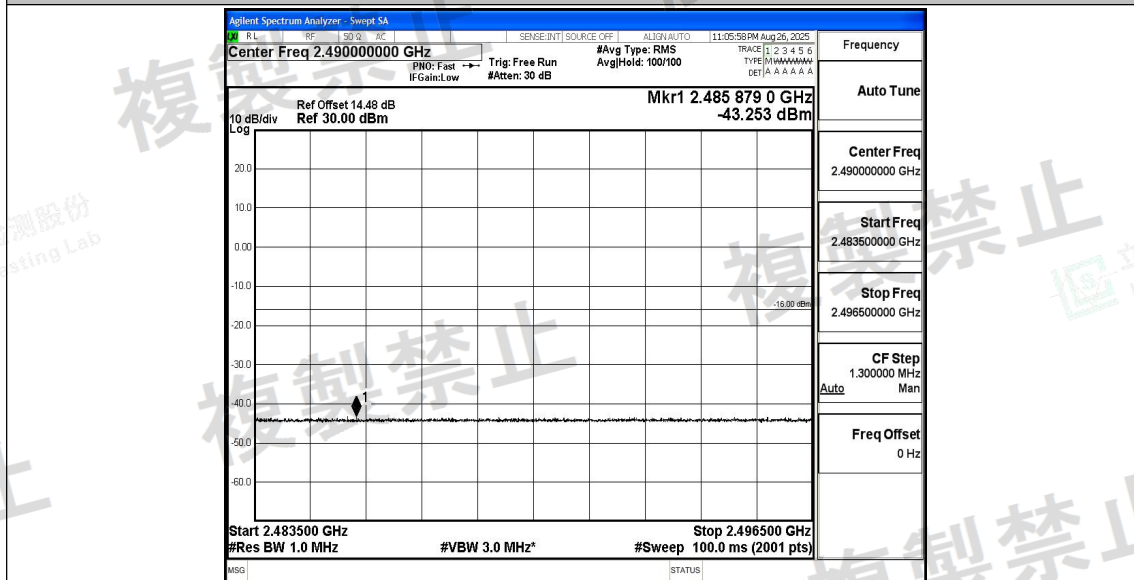
NTNV_3DH5_Ant1_2441_2387~2400



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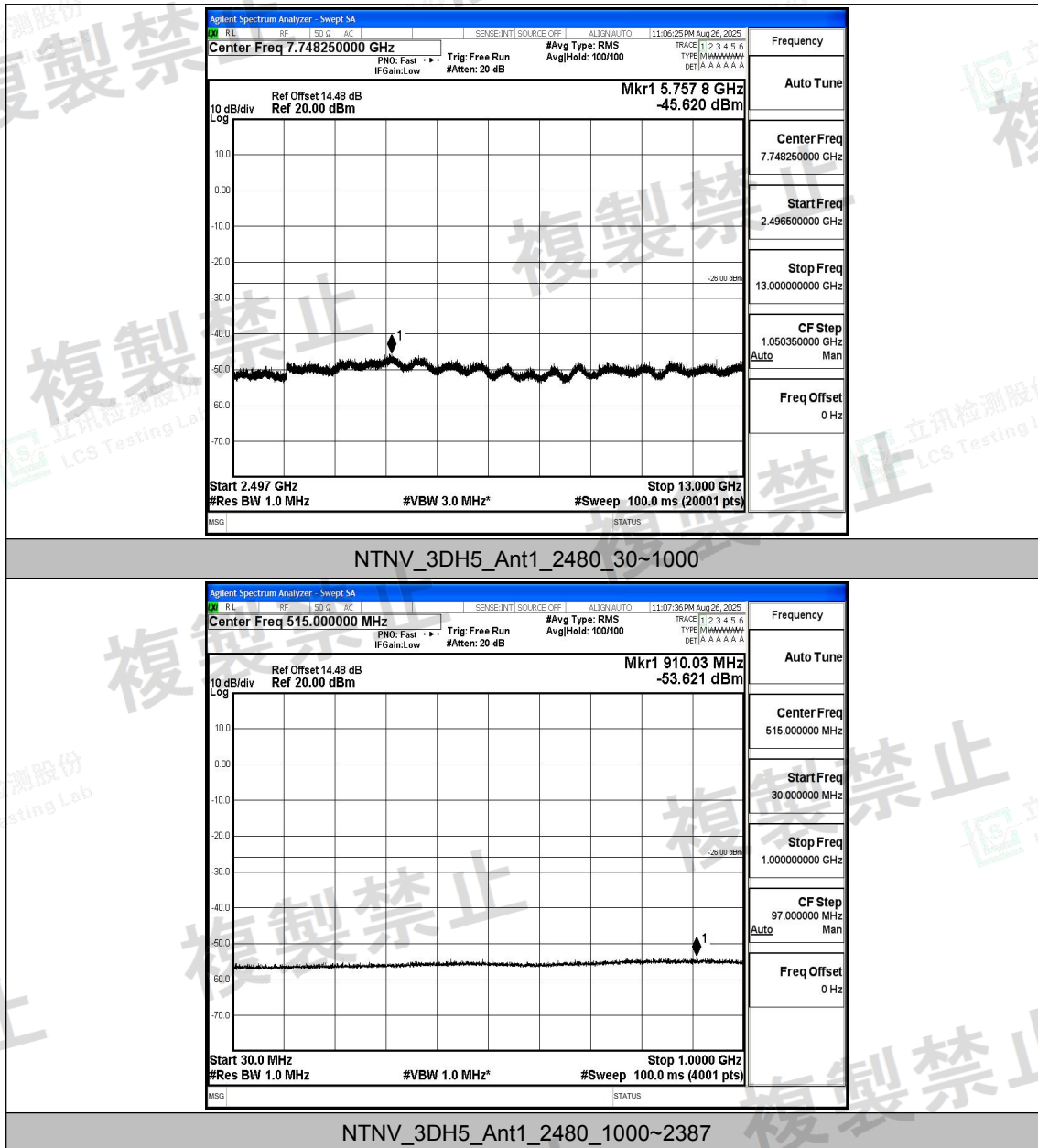
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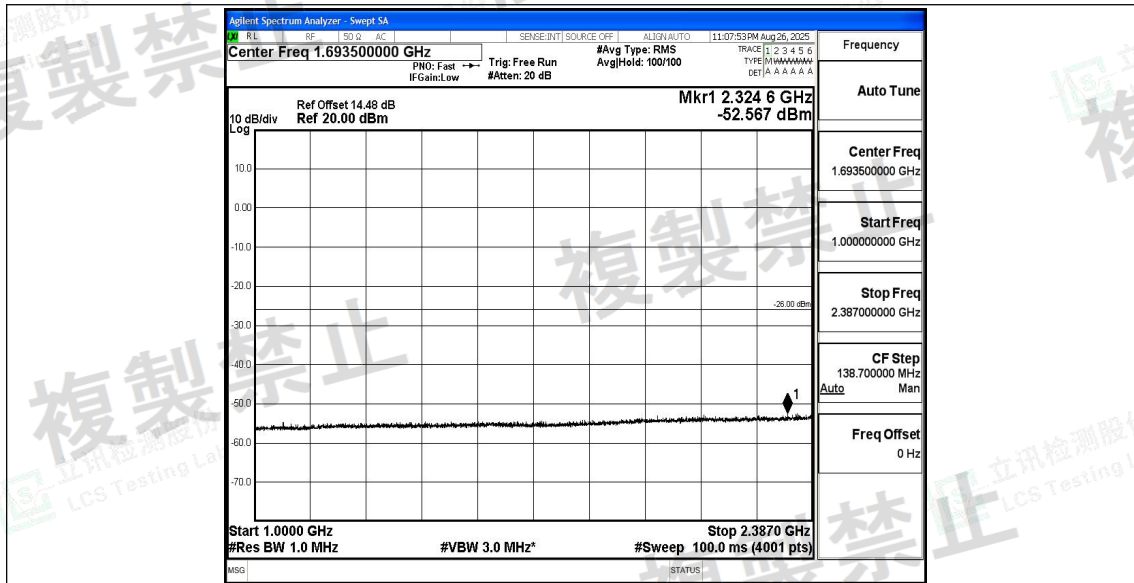
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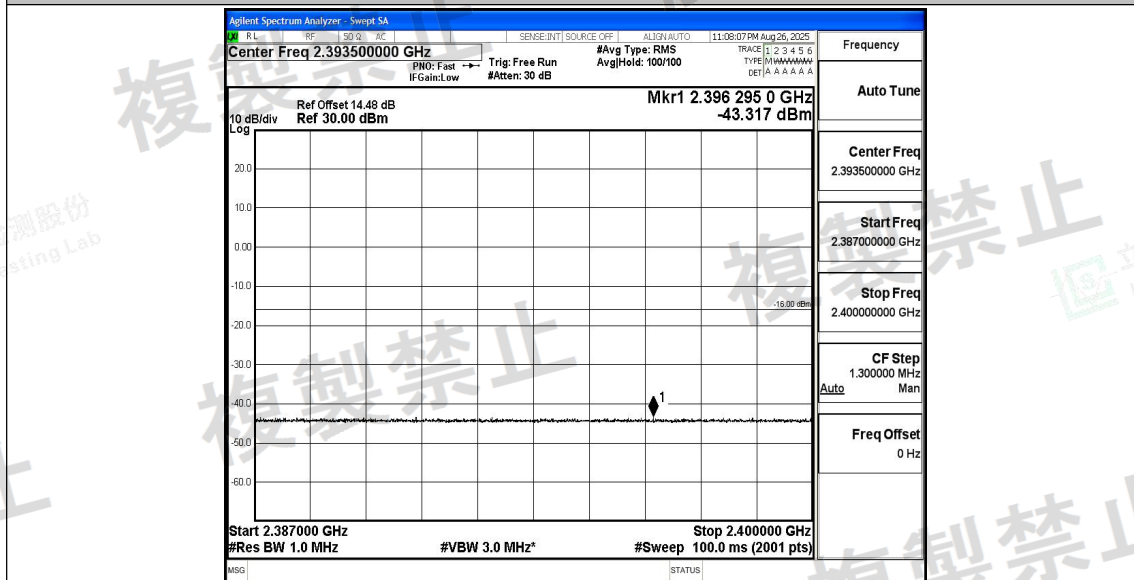
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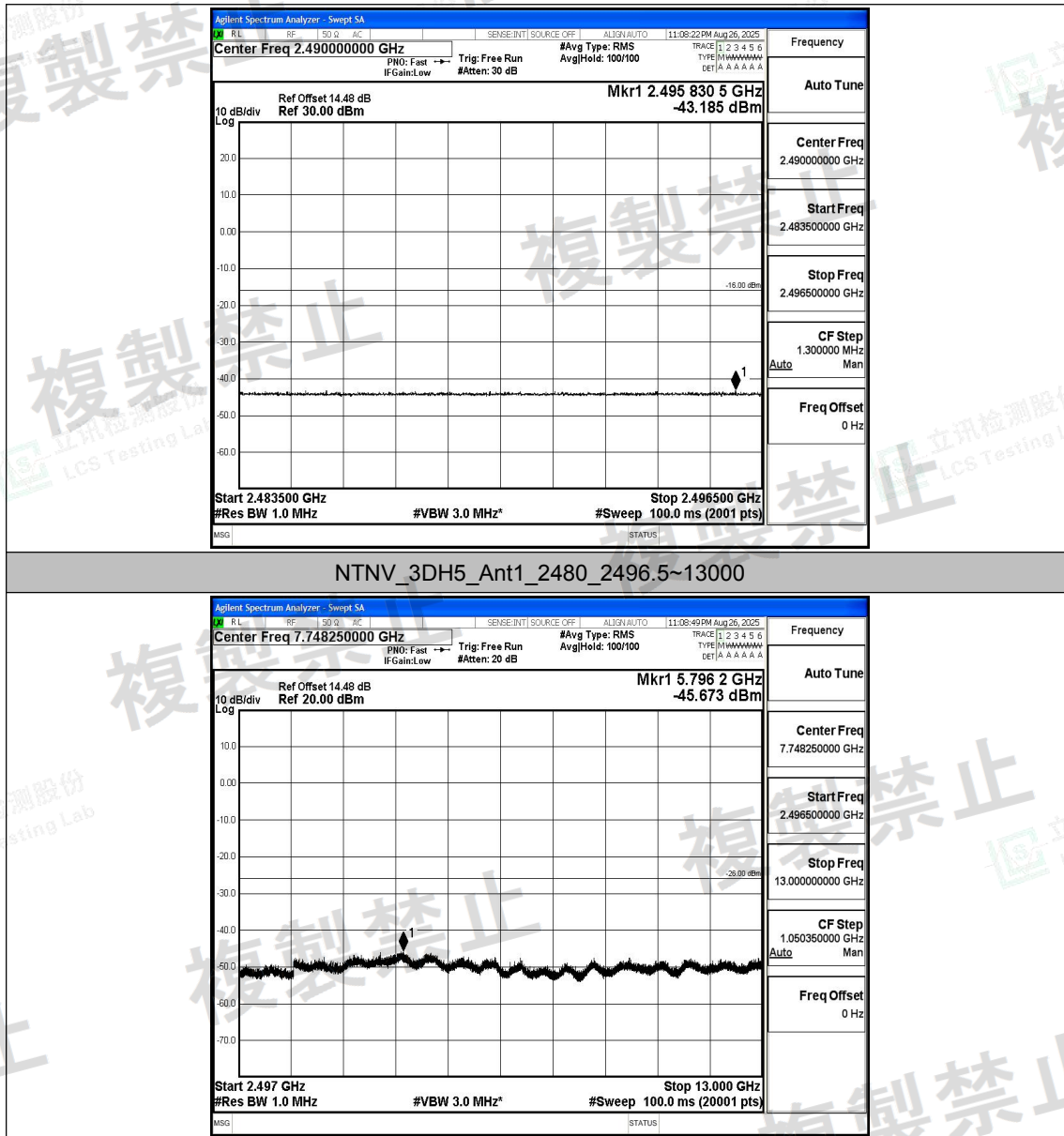
NTNV_3DH5_Ant1_2480_2387~2400



NTNV_3DH5_Ant1_2480_2483.5~2496.5



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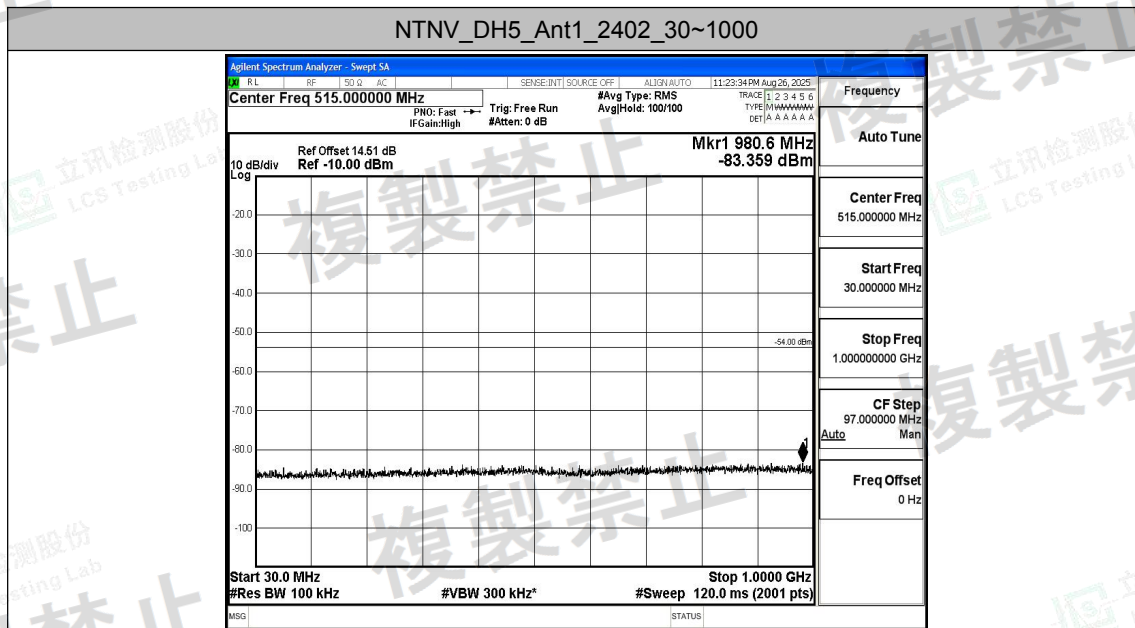


A.6 Spurious Emission of RX

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	-83.36	≤-54	0.00461	≤4	PASS
				1000~12500	-66.62	≤-47	0.21777	≤20	PASS
			2441	30~1000	-83.35	≤-54	0.00462	≤4	PASS
				1000~12500	-66.72	≤-47	0.21281	≤20	PASS
			2480	30~1000	-83.17	≤-54	0.00482	≤4	PASS
				1000~12500	-67.06	≤-47	0.19679	≤20	PASS
	2DH5	Ant1	2402	30~1000	-82.48	≤-54	0.00565	≤4	PASS
				1000~12500	-66.86	≤-47	0.20606	≤20	PASS
			2441	30~1000	-83.03	≤-54	0.00498	≤4	PASS
				1000~12500	-66.14	≤-47	0.24322	≤20	PASS
			2480	30~1000	-83.13	≤-54	0.00486	≤4	PASS
				1000~12500	-67.15	≤-47	0.19275	≤20	PASS
	3DH5	Ant1	2402	30~1000	-83.28	≤-54	0.00470	≤4	PASS
				1000~12500	-66.66	≤-47	0.21577	≤20	PASS
			2441	30~1000	-82.89	≤-54	0.00514	≤4	PASS
				1000~12500	-66.92	≤-47	0.20324	≤20	PASS
			2480	30~1000	-83.39	≤-54	0.00458	≤4	PASS
				1000~12500	-66.28	≤-47	0.23550	≤20	PASS

Test Graphs



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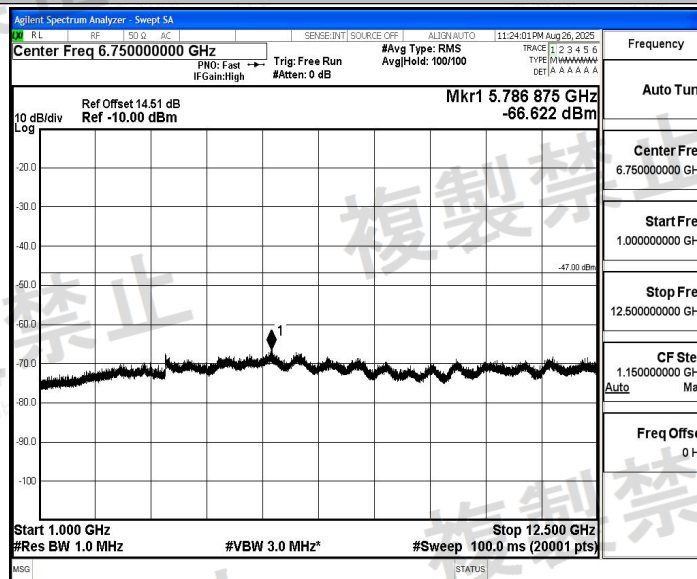
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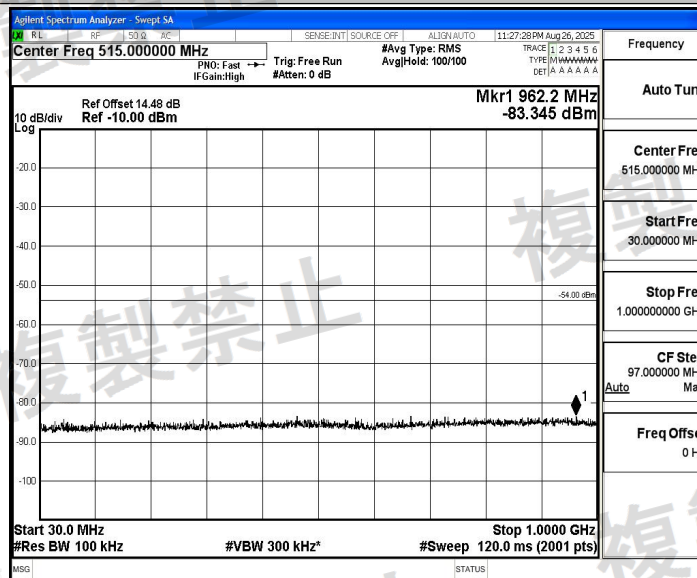
Scan code to check authenticity



NTNV_DH5_Ant1_2402_1000~12500

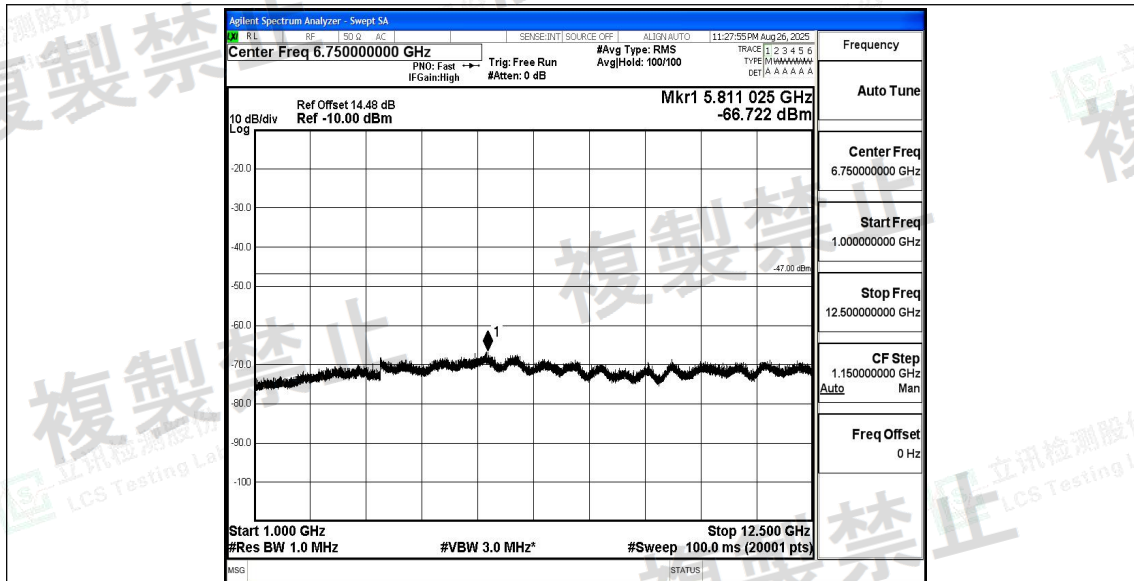


NTNV_DH5_Ant1_2441_30~1000

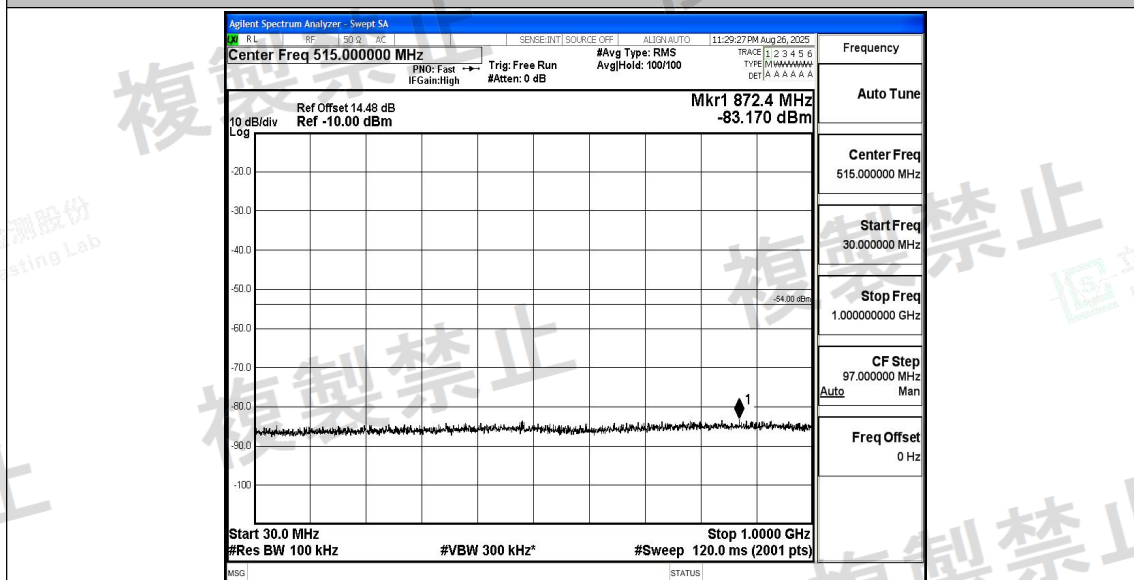


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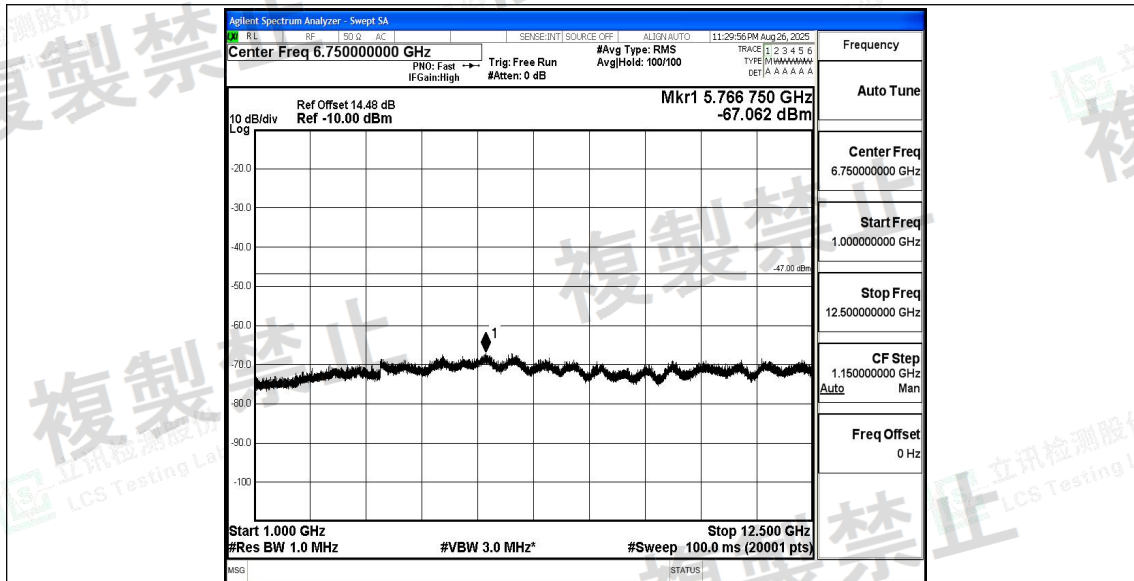


NTNV_DH5_Ant1_2480_30~1000

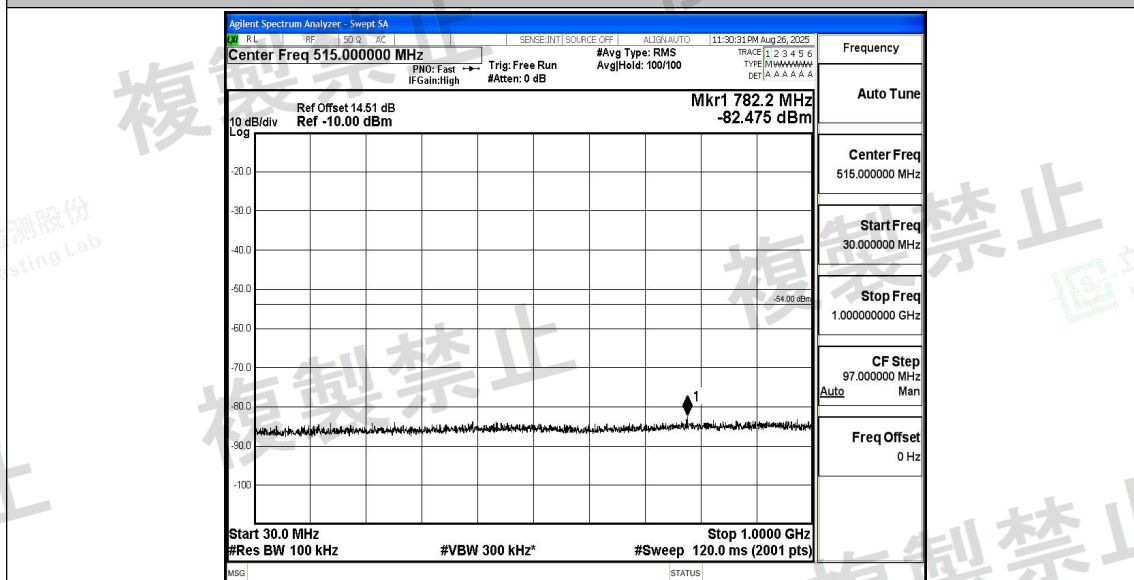


NTNV_DH5_Ant1_2480_1000~12500





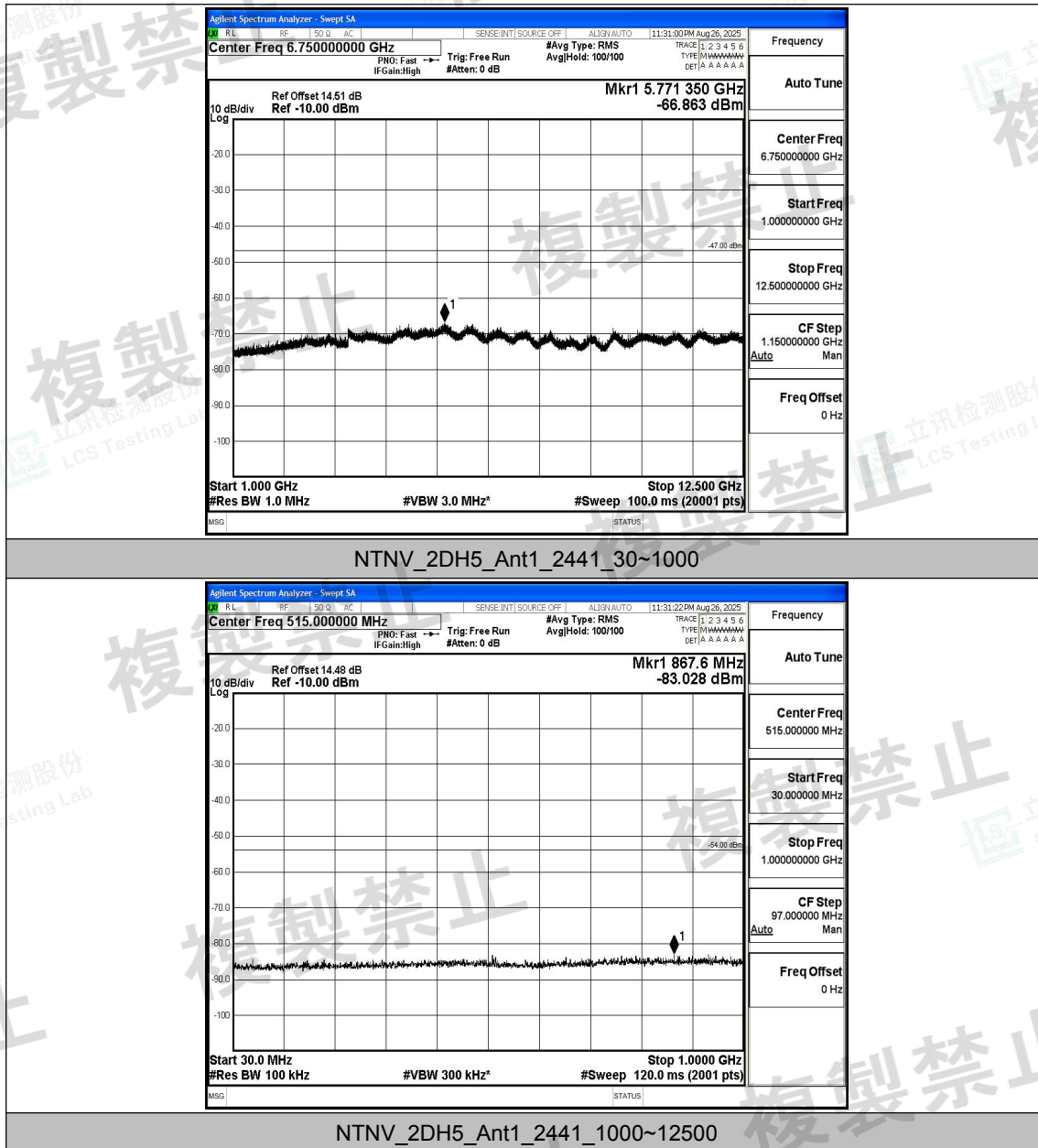
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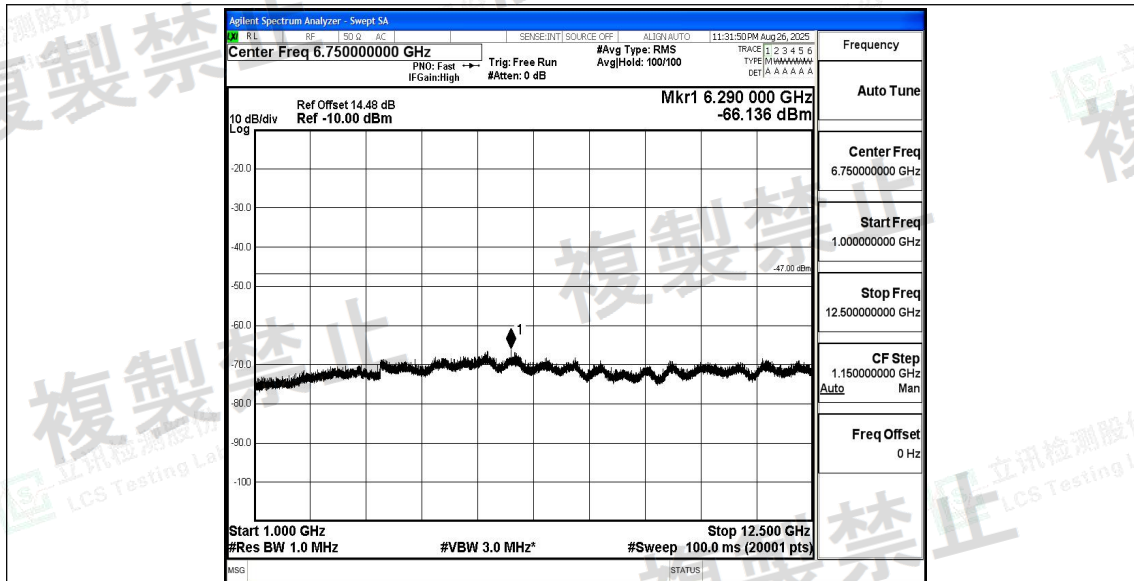
NTNV_2DH5_Ant1_2402_1000~12500



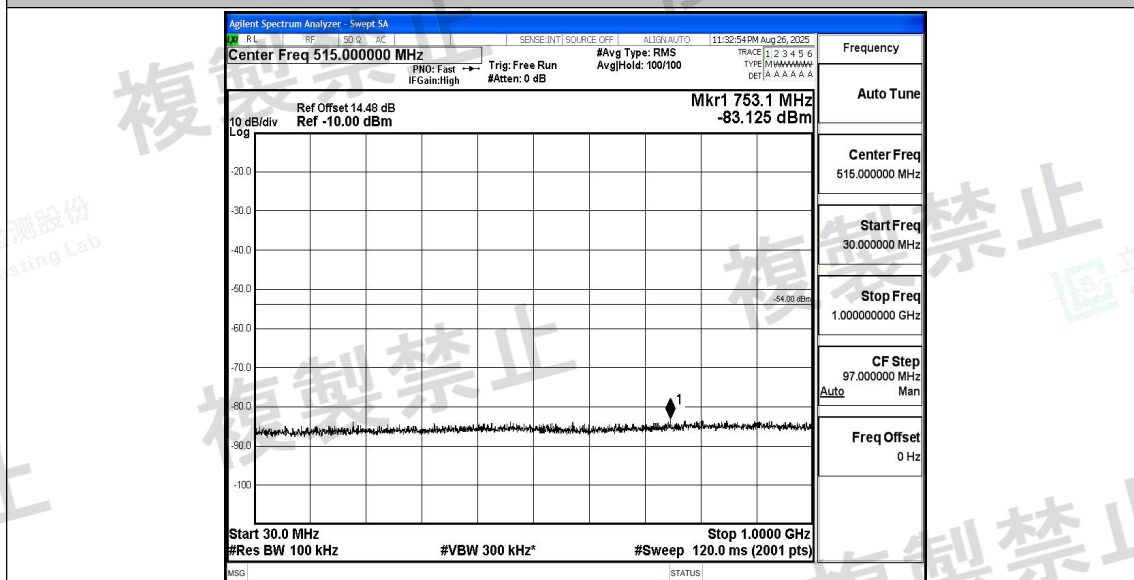
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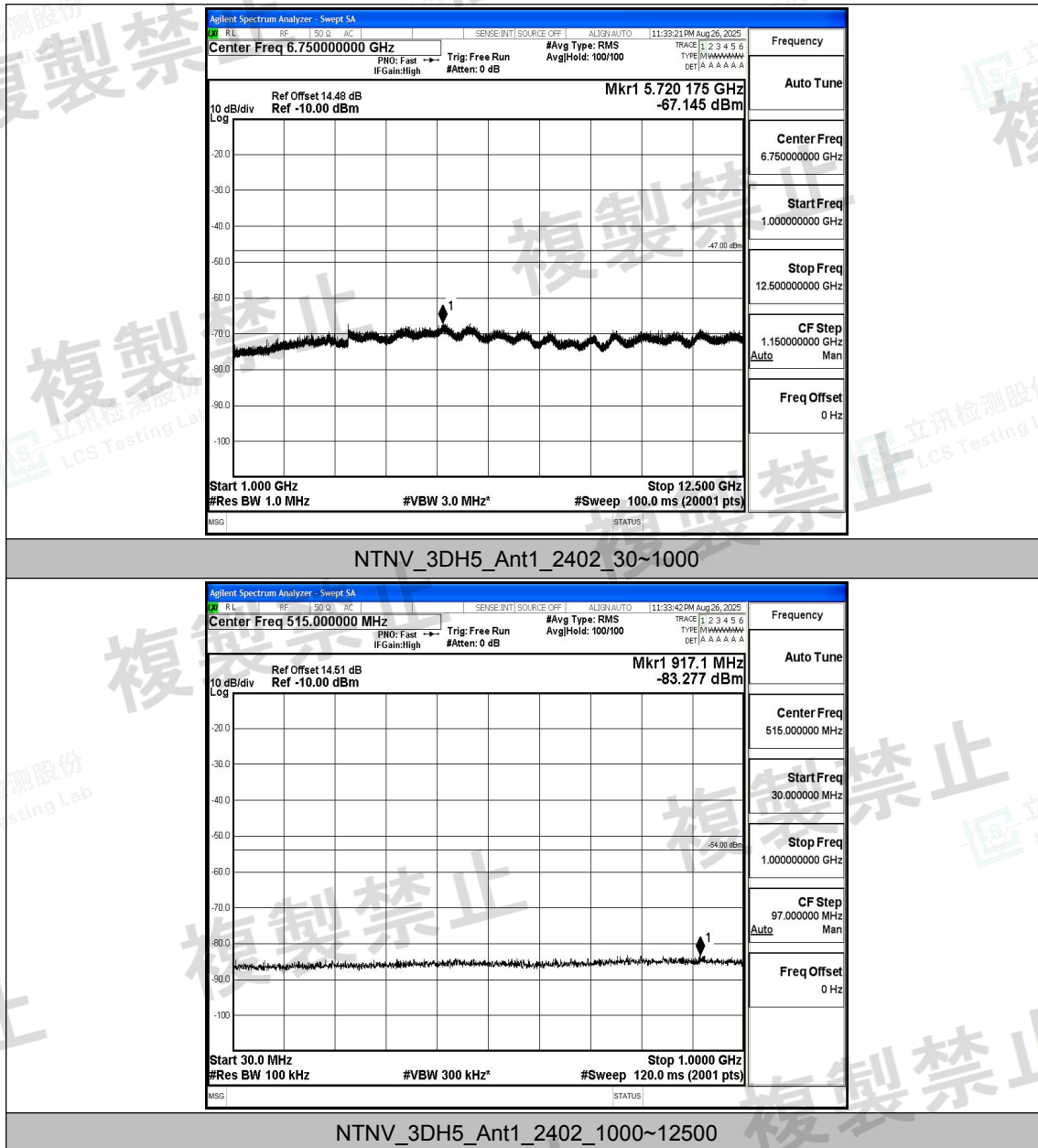
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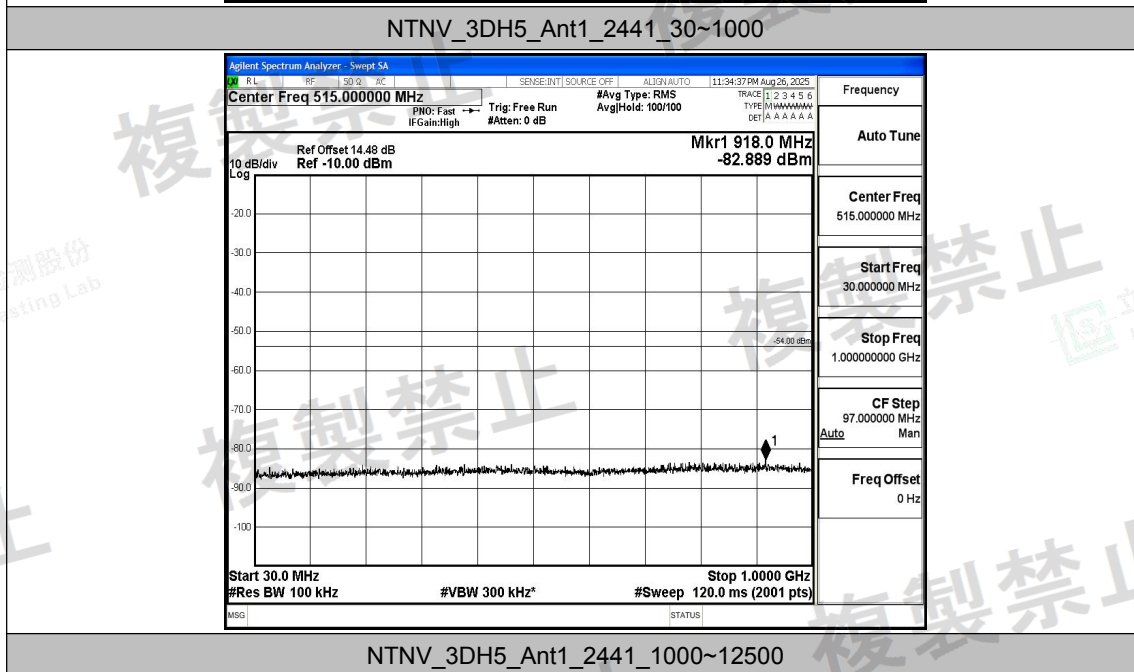
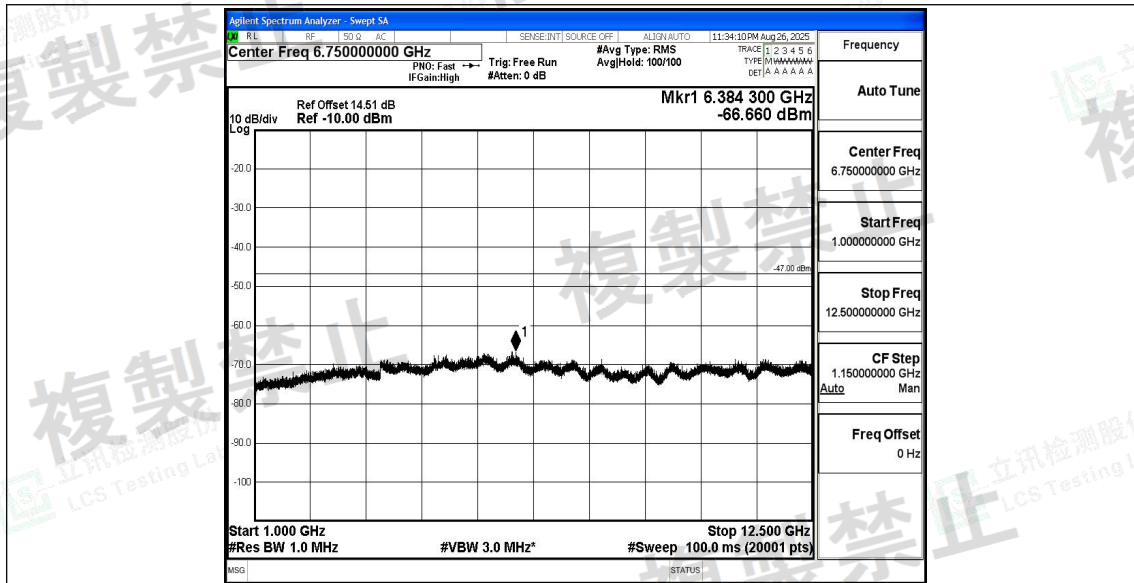
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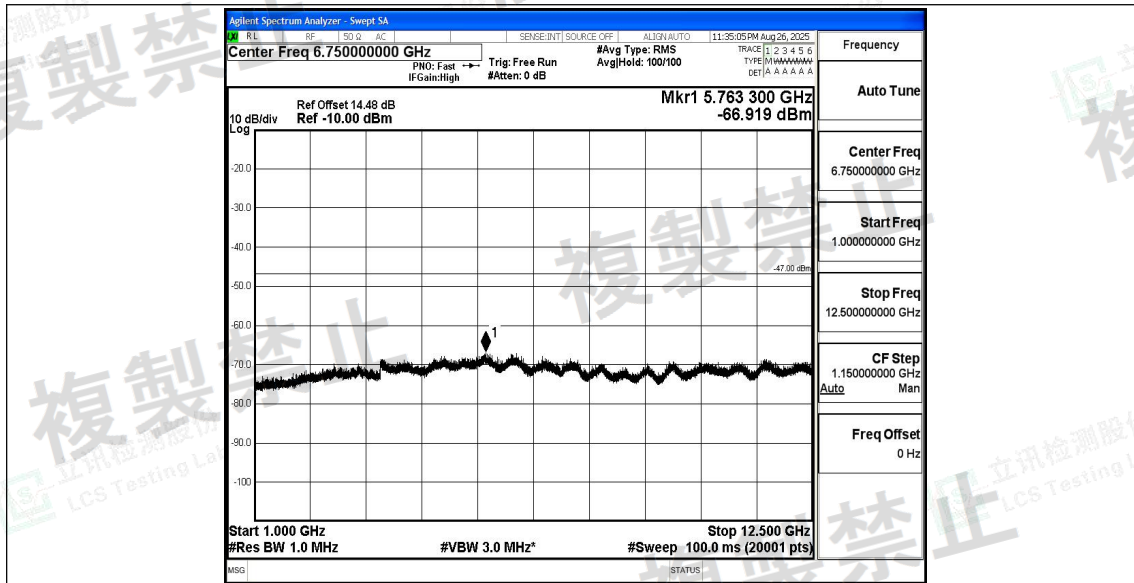


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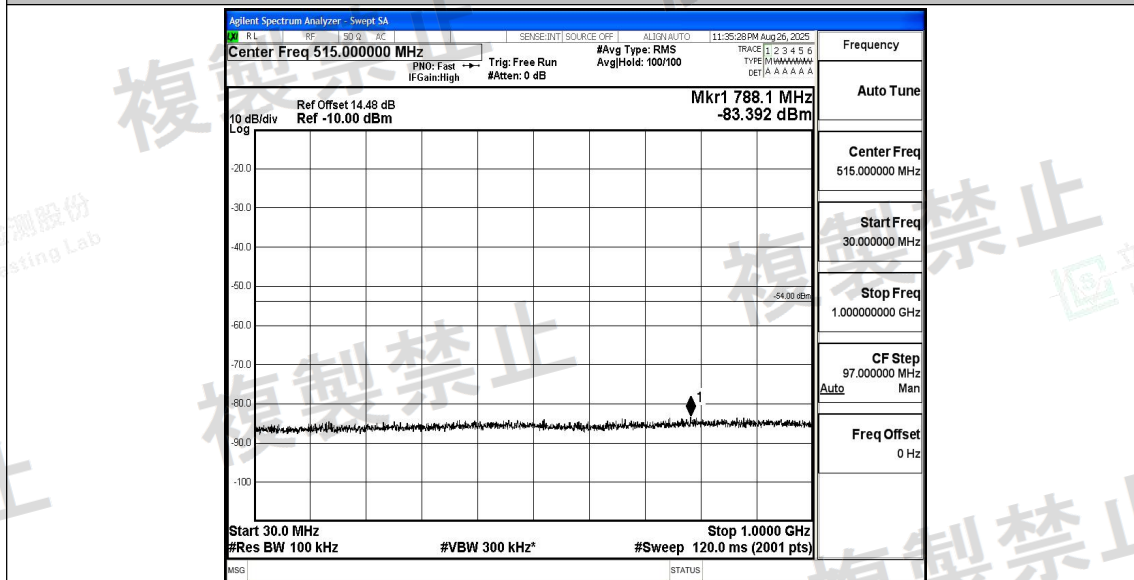


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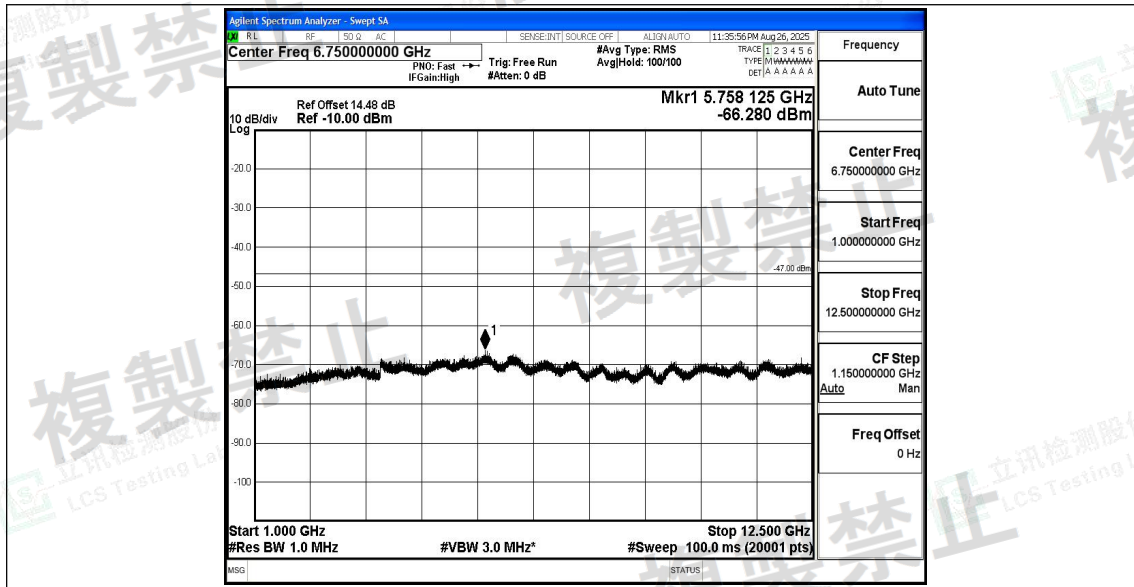
NTNV_3DH5_Ant1_2480_30~1000



NTNV_3DH5_Ant1_2480_1000~12500



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A.7 Dwell Time

Test Result

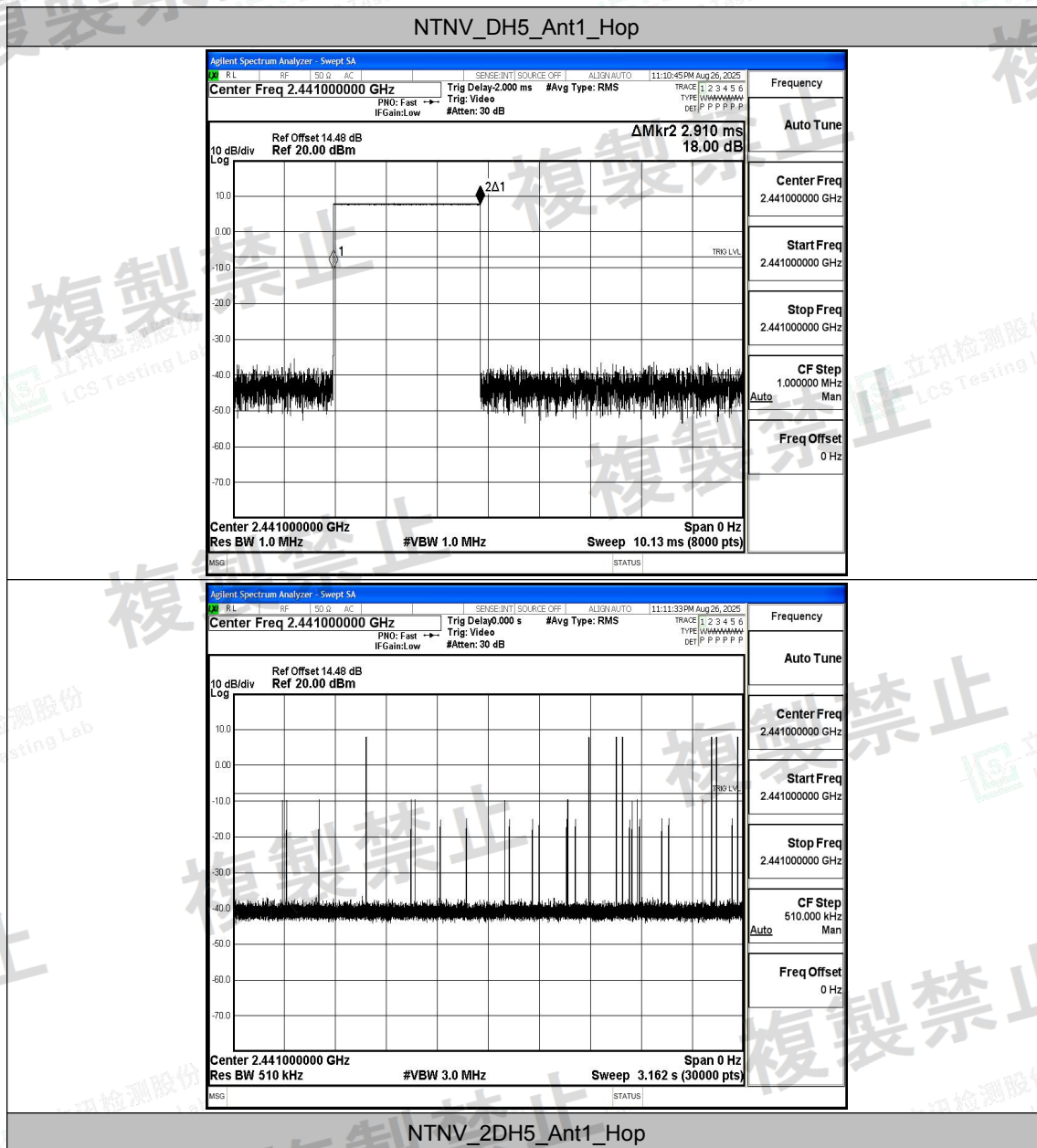
TestCondition	TestMode	Antenna	Frequency [MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit [s]	Verdict
NTNV	DH5	Ant1	Hop	2.91	80	0.233	≤0.4	PASS
	2DH5	Ant1	Hop	2.90	100	0.29	≤0.4	PASS
	3DH5	Ant1	Hop	2.90	100	0.29	≤0.4	PASS

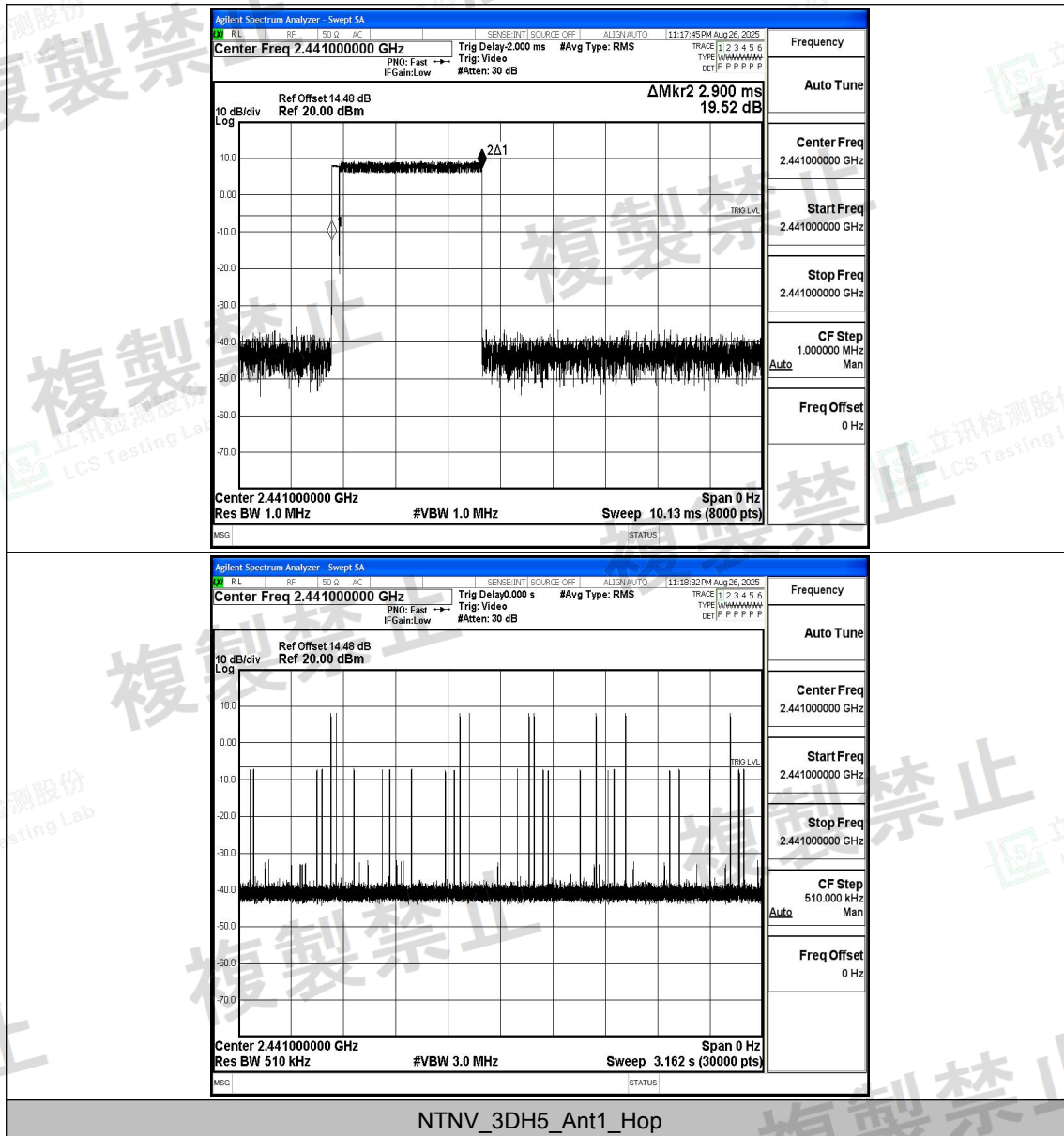


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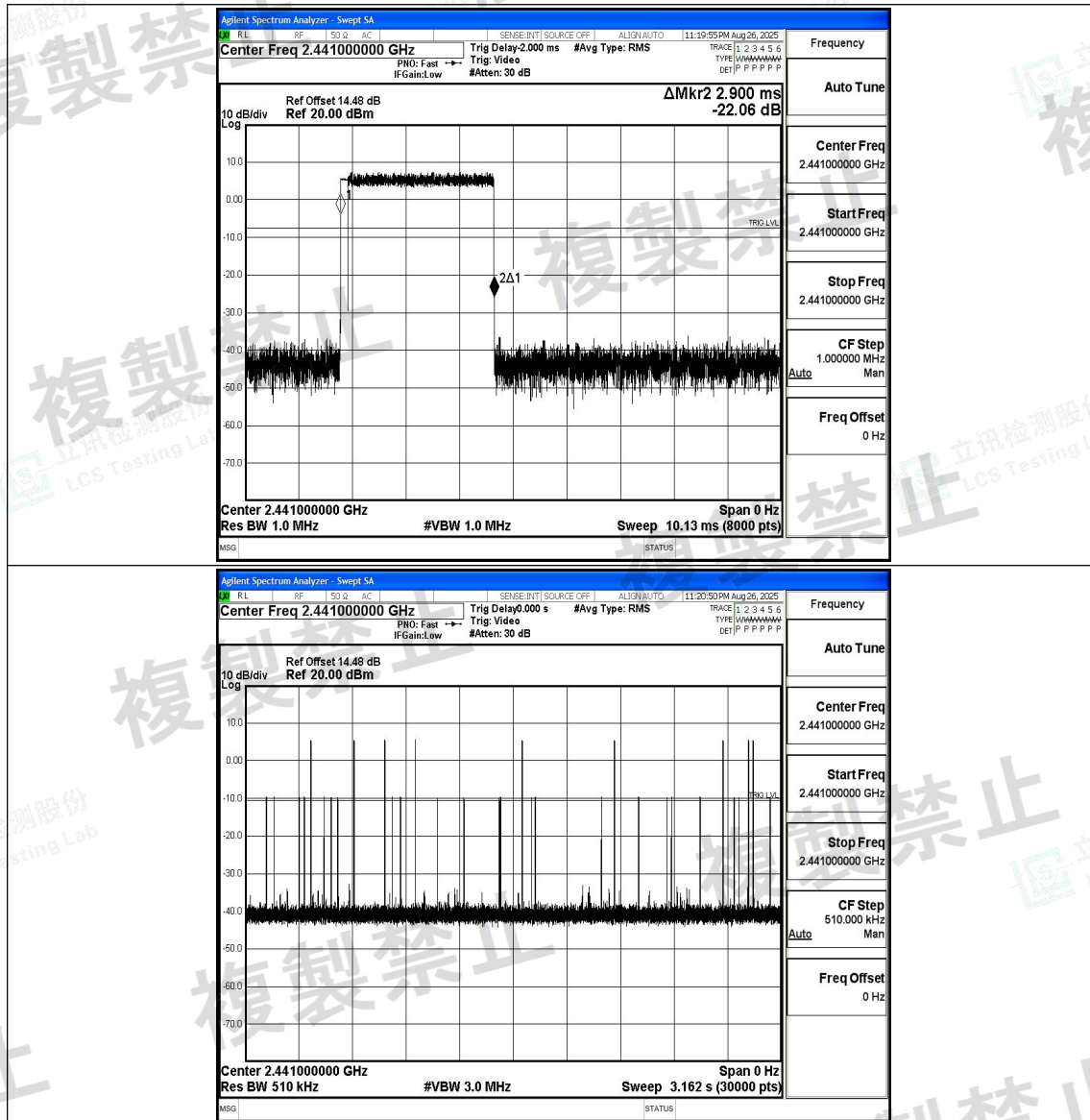


Test Graphs





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