



Appendix A for BT Test Data

Product Name: Chat Wireless

Test Model: SA0220

Environmental Conditions

Temperature:	22.3°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Andre Tan
Supervised by:	Nick Peng



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A.1 Frequency_Error

Test Result

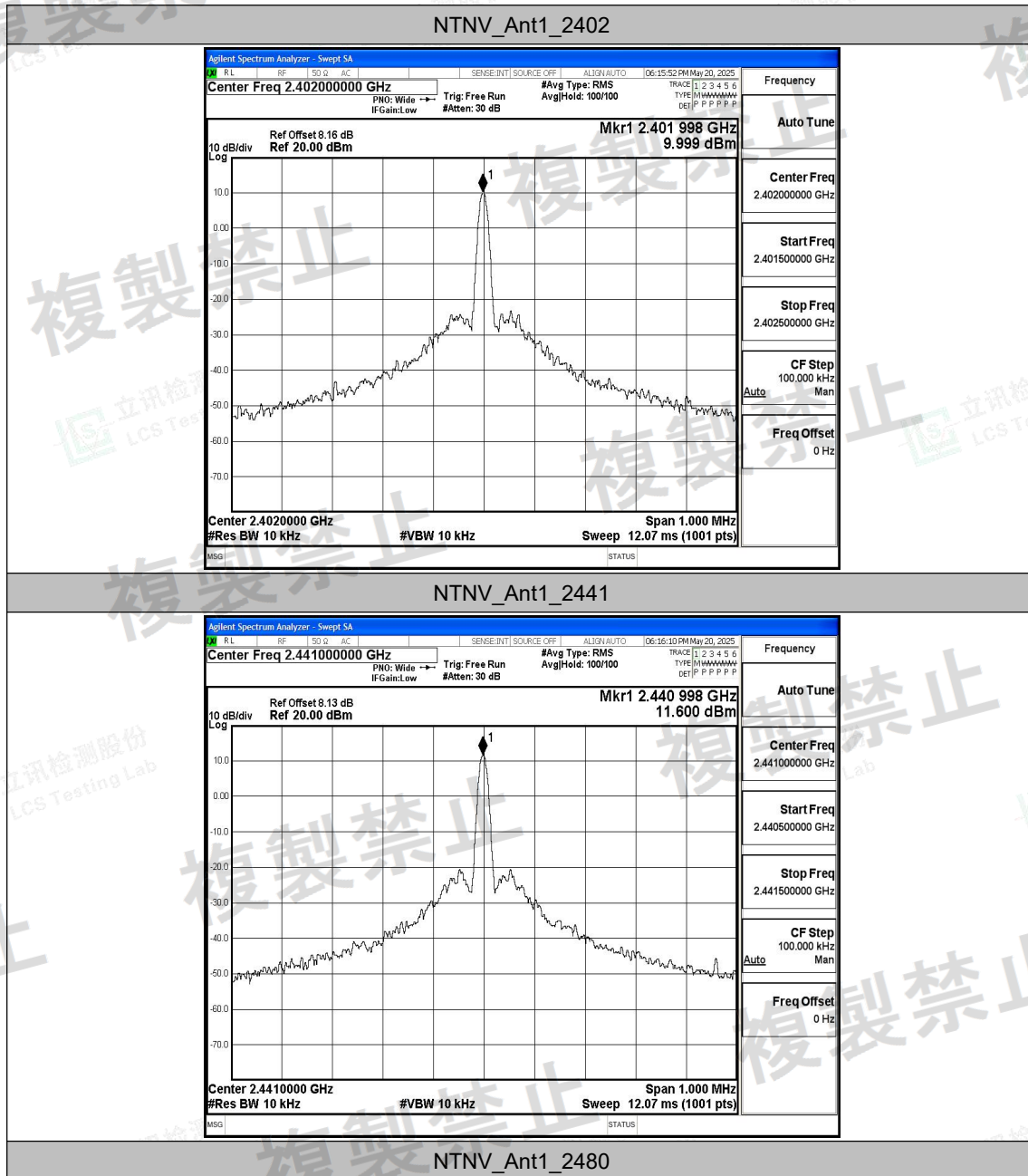
TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Frequency_Error	Ant1	2402	-0.83264	±50	PASS
			2441	-0.81934	±50	PASS
			2480	-0.80645	±50	PASS



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Test Graphs

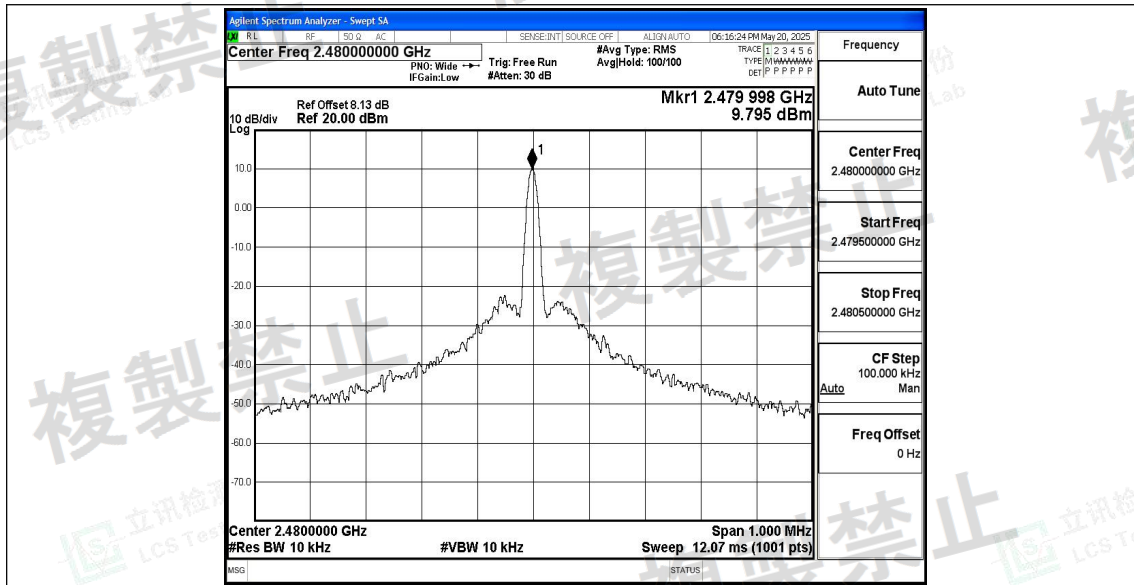


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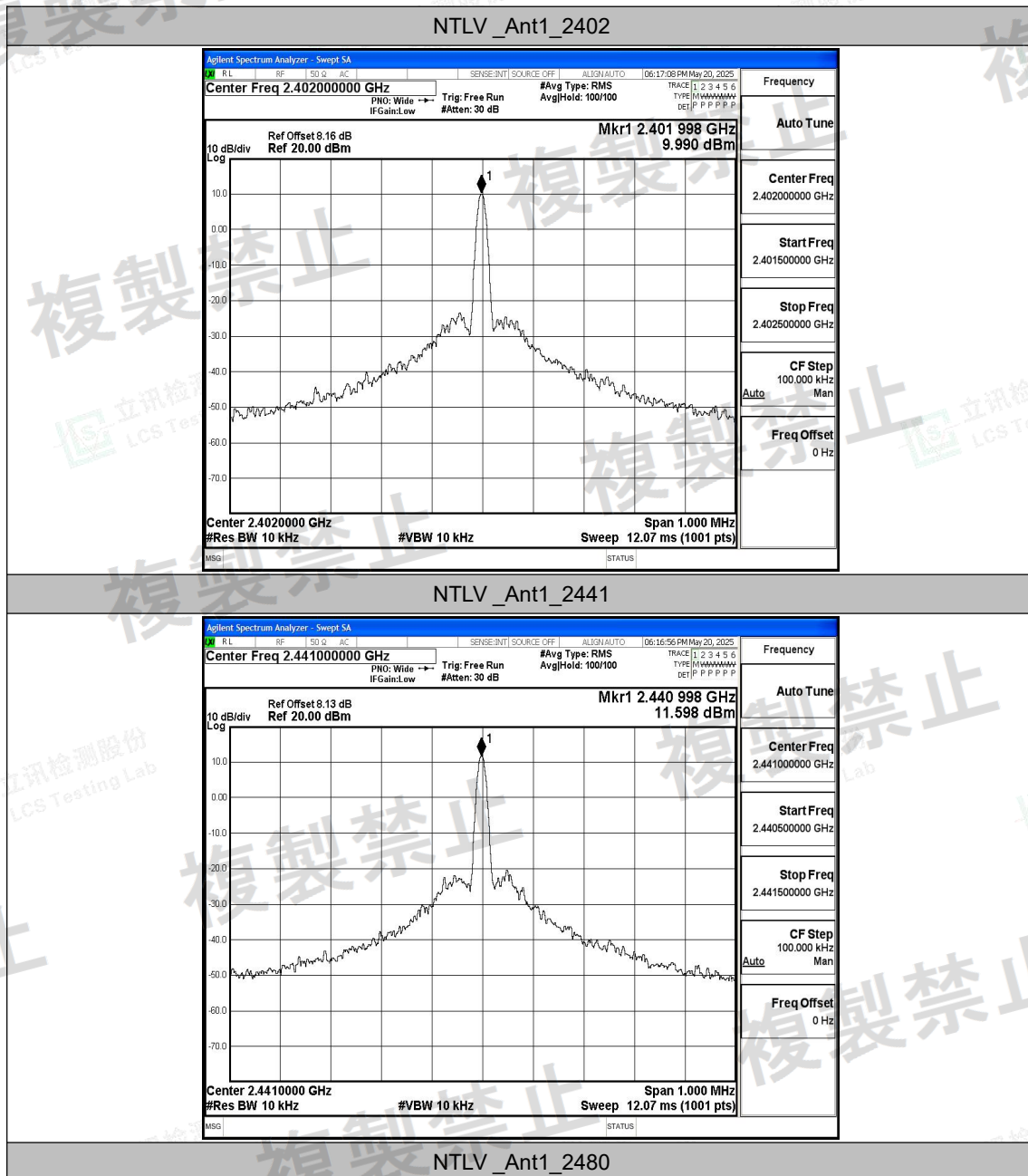
TestCondition	TestMode	Antenna	Channel	Result[ppm]	Limit[ppm]	Verdict
NTLV	Frequency_Error	Ant1	2402	-0.83264	±50	PASS
			2441	-0.81934	±50	PASS
			2480	-0.80645	±50	PASS

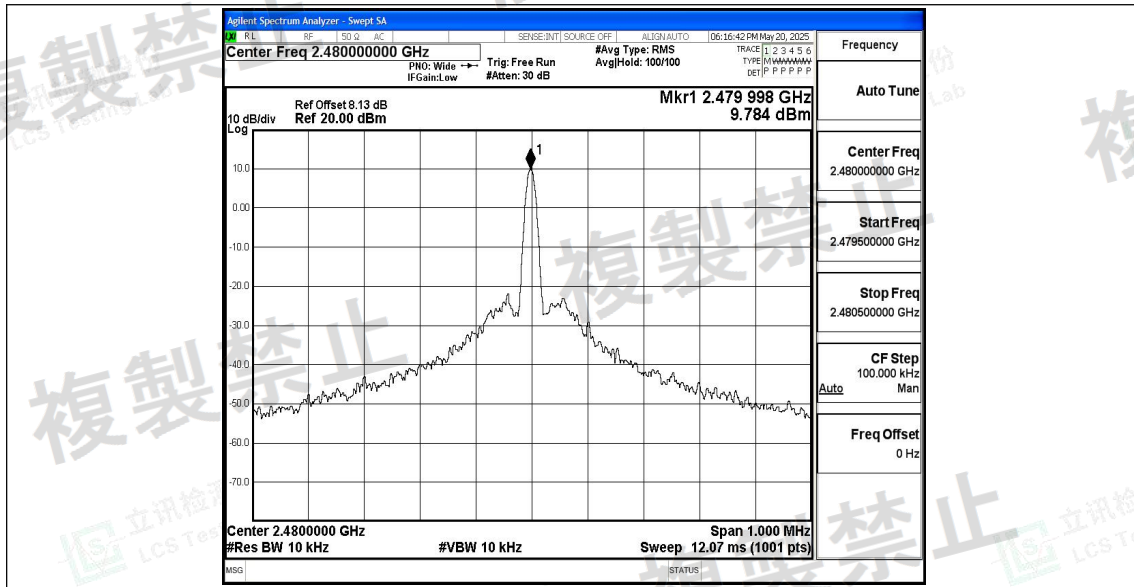


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Test Graphs





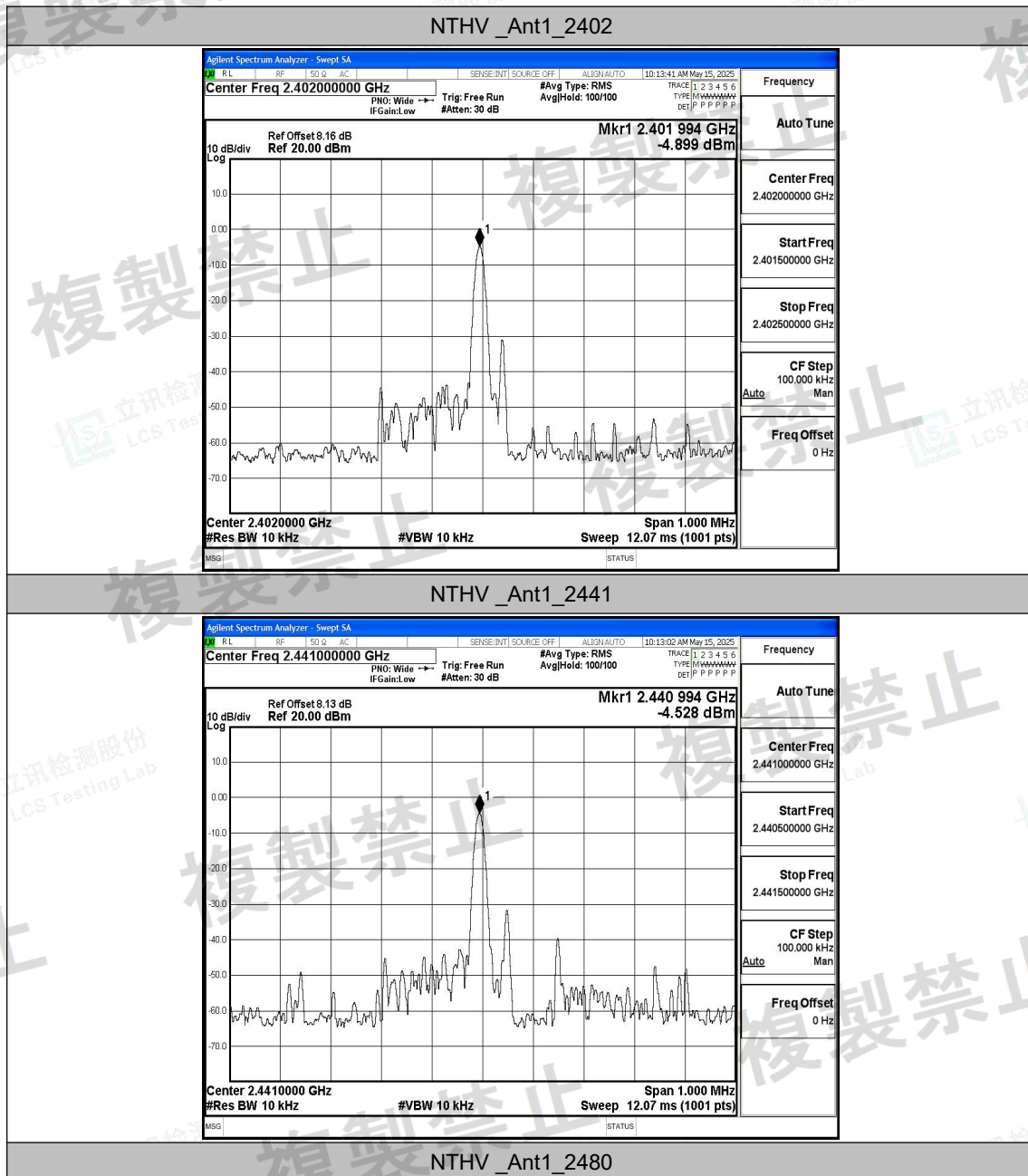
TestCondition	TestMode	Antenna	Channel	Result[ppm]	Limit[ppm]	Verdict
NTHV	Frequency_Error	Ant1	2402	-2.49792	±50	PASS
			2441	-2.45801	±50	PASS
			2480	-2.82258	±50	PASS



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Test Graphs

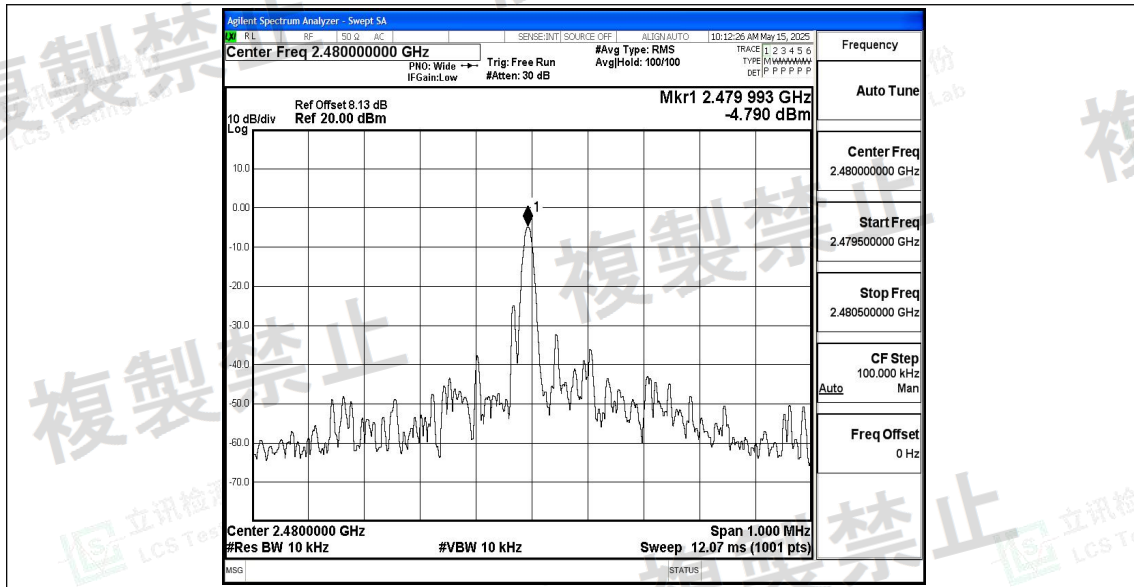


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A.2 Antenna Power

Test Result

NTNV							
Mode	Declared power	Average Result	Average Result	Result	Limit	Tolerance	Limit
	(mW/MHz)	(dBm)	(mW)	(mW/MHz)	(mW/MHz)	/	/
Hopping-Tx (1Mbps)	0.03	1.53	1.42	0.027	3	-10.00%	+20%
Hopping-Tx (2Mbps)	0.03	1.66	1.47	0.027	3	-10.00%	+20%
Hopping-Tx (3Mbps)	0.03	1.7	1.48	0.028	3	-6.67%	+20%
Conclusion: PASS							

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

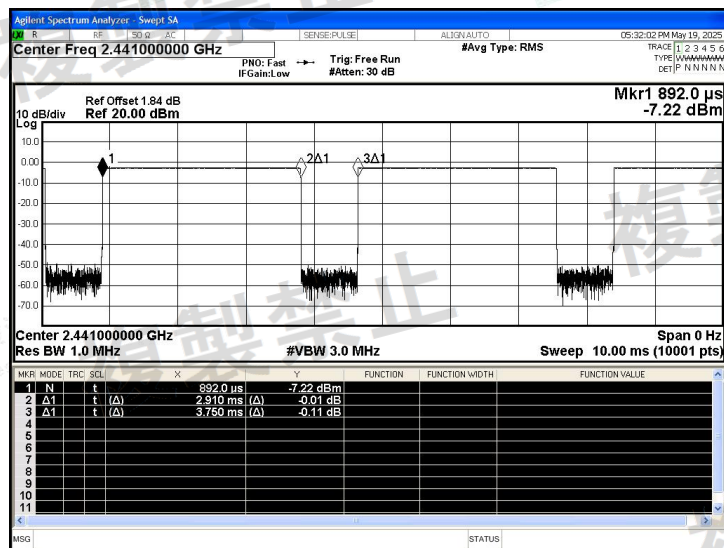
Antenna power Result = Measured Power / Spreading bandwidth

Spread Bandwidth (DH5) = 68.975MHz, Spread Bandwidth (2DH5) = 69.107MHz,

Spread Bandwidth (3DH5) = 68.902MHz

Duty cycle=77.6%

Duty cycle= [Ton/ (Ton+Toff)]*100%=77.6%



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NTLV							
Mode	Declared power	Average Result	Average Result	Result	Limit	Tolerance	Limit
	(mW/MHz)	(dBm)	(mW)	(mW/MHz)	(mW/MHz)	/	/
Hoping-Tx (1Mbps)	0.03	1.86	1.53	0.029	3	-3.33%	+20%
Hoping-Tx (2Mbps)	0.03	1.93	1.56	0.029	3	-3.33%	+20%
Hoping-Tx (3Mbps)	0.03	1.63	1.46	0.027	3	-10.00%	+20%
Conclusion: PASS							

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

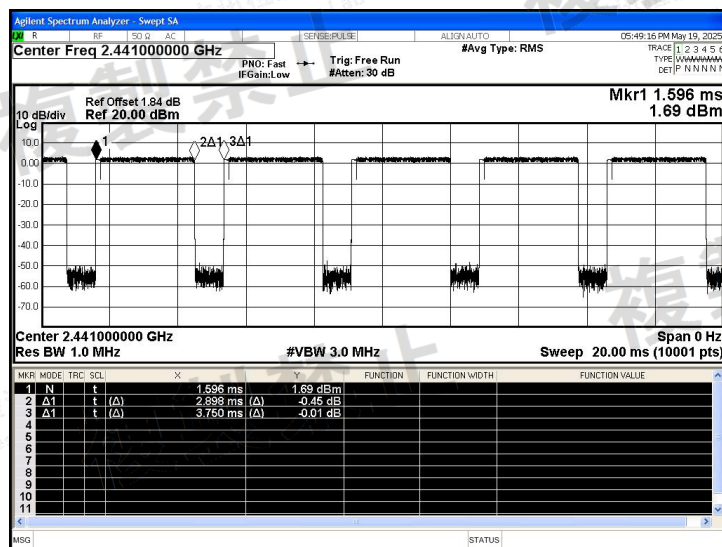
Antenna power Result = Measured Power / Spreading bandwidth

Spread Bandwidth (DH5) = 68.988MHz, Spread Bandwidth (2DH5) = 69.009MHz,

Spread Bandwidth (3DH5) = 69.067MHz

Duty cycle=77.28%

Duty cycle= [Ton/ (Ton+Toff)]*100%=77.28%



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NTHV							
Mode	Declared power	Average Result	Average Result	Result	Limit	Tolerance	Limit
	(mW/MHz)	(dBm)	(mW)	(mW/MHz)	(mW/MHz)	/	/
Hopping-Tx (1Mbps)	0.03	1.77	1.50	0.027	3	-10.00%	+20%
Hopping-Tx (2Mbps)	0.03	1.90	1.55	0.028	3	-6.67%	+20%
Hopping-Tx (3Mbps)	0.03	1.81	1.52	0.027	3	-10.00%	+20%
Conclusion: PASS							

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

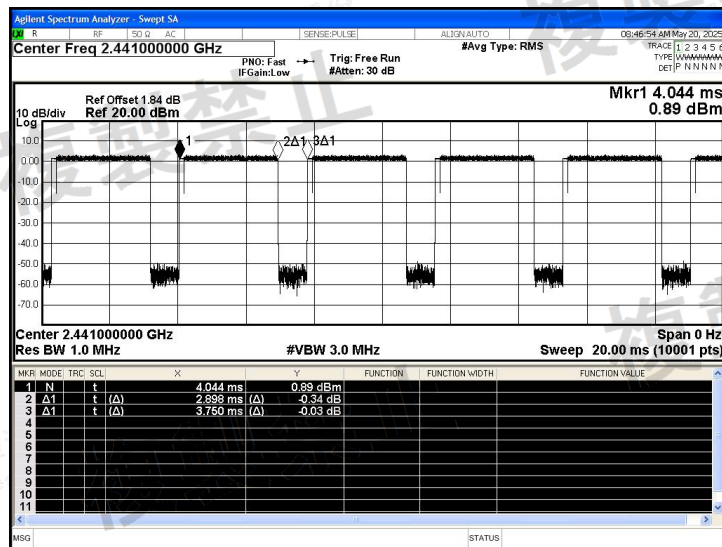
Antenna power Result = Measured Power / Spreading bandwidth

Spread Bandwidth (DH5) = 71.434MHz, Spread Bandwidth (2DH5) = 71.515MHz,

Spread Bandwidth (3DH5) = 71.579MHz

Duty cycle=77.28%

Duty cycle= [Ton/ (Ton+Toff)]*100%=77.28%



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A.3 Occupied Bandwidth

Test Result

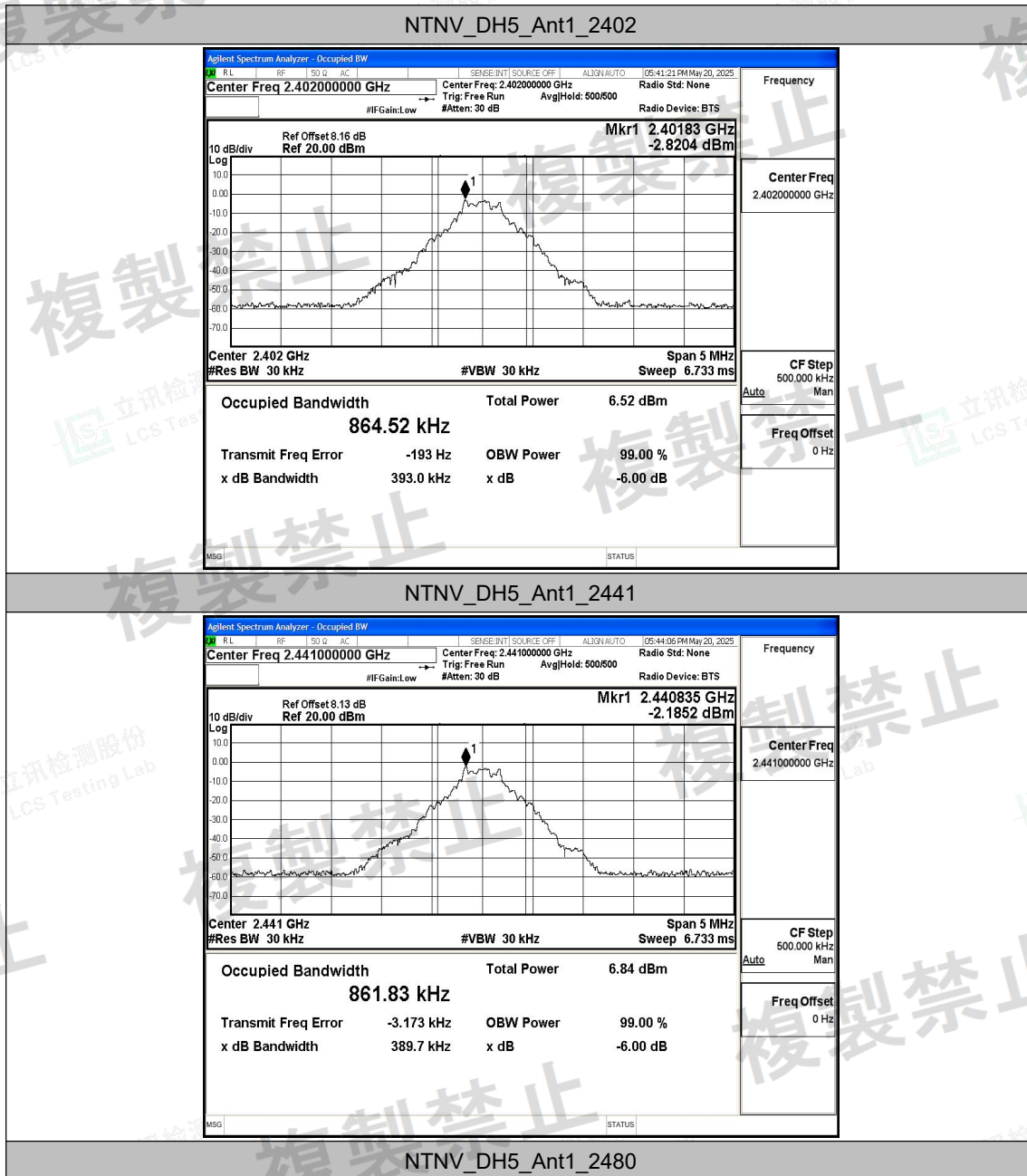
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	2402	0.865	≤83.5	PASS
			2441	0.862	≤83.5	PASS
			2480	0.858	≤83.5	PASS
	2DH5	Ant1	2402	1.184	≤83.5	PASS
			2441	1.184	≤83.5	PASS
			2480	1.186	≤83.5	PASS
	3DH5	Ant1	2402	1.183	≤83.5	PASS
			2441	1.183	≤83.5	PASS
			2480	1.187	≤83.5	PASS

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.426	≤83.5	PASS
	2DH5	Ant1	Hop	78.513	≤83.5	PASS
	3DH5	Ant1	Hop	78.470	≤83.5	PASS





Test Graphs

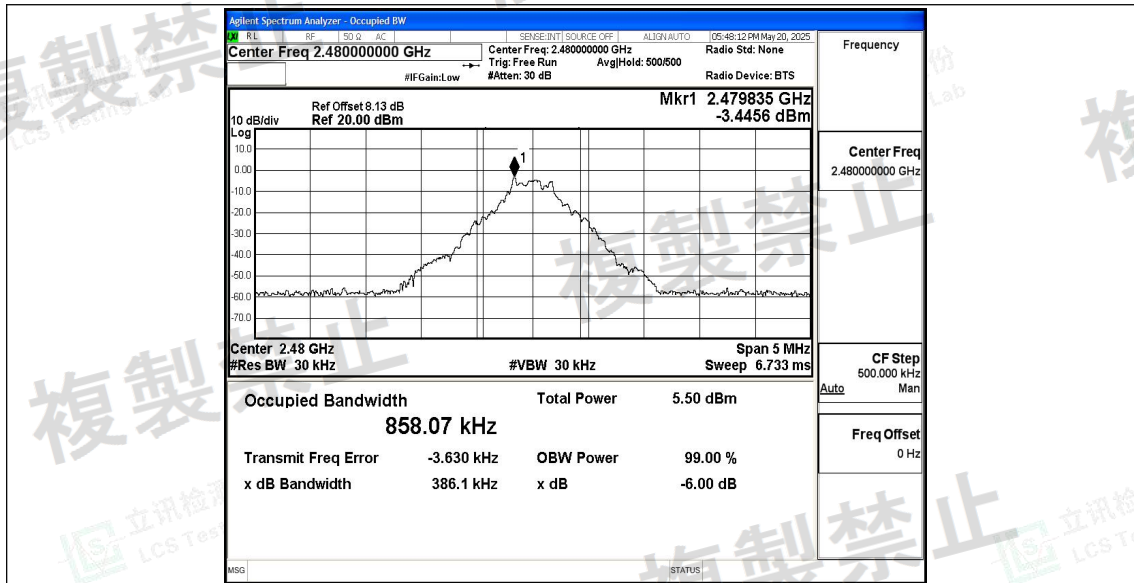


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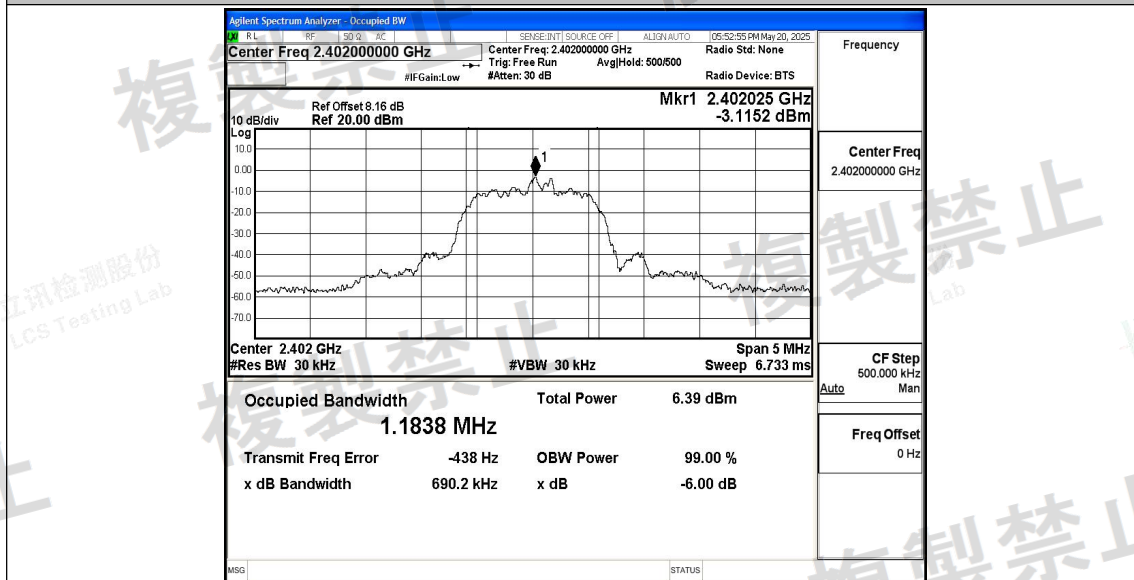
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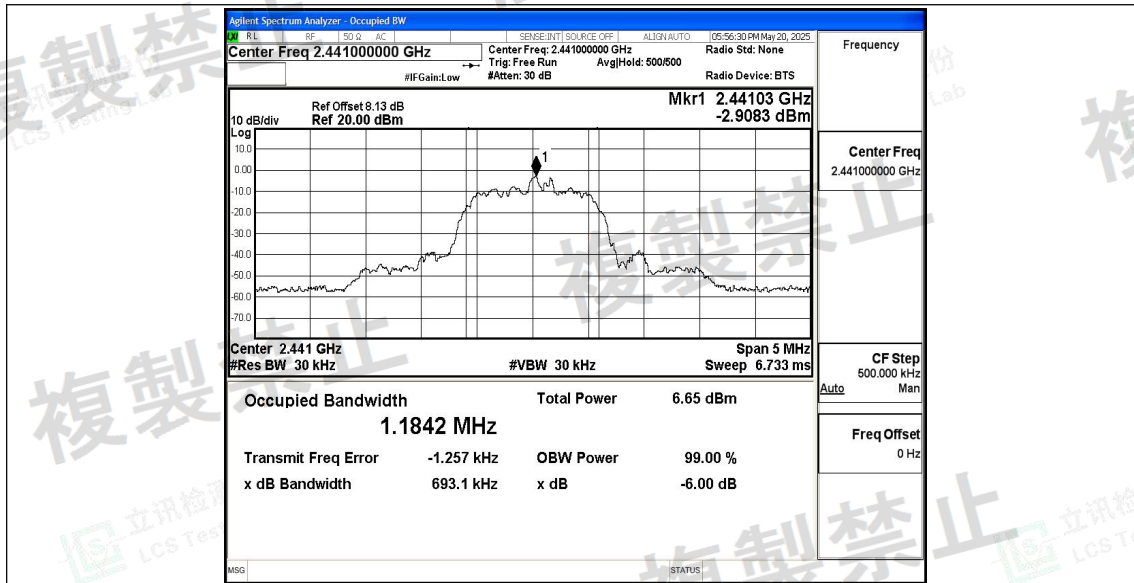


NTNV_2DH5_Ant1_2402

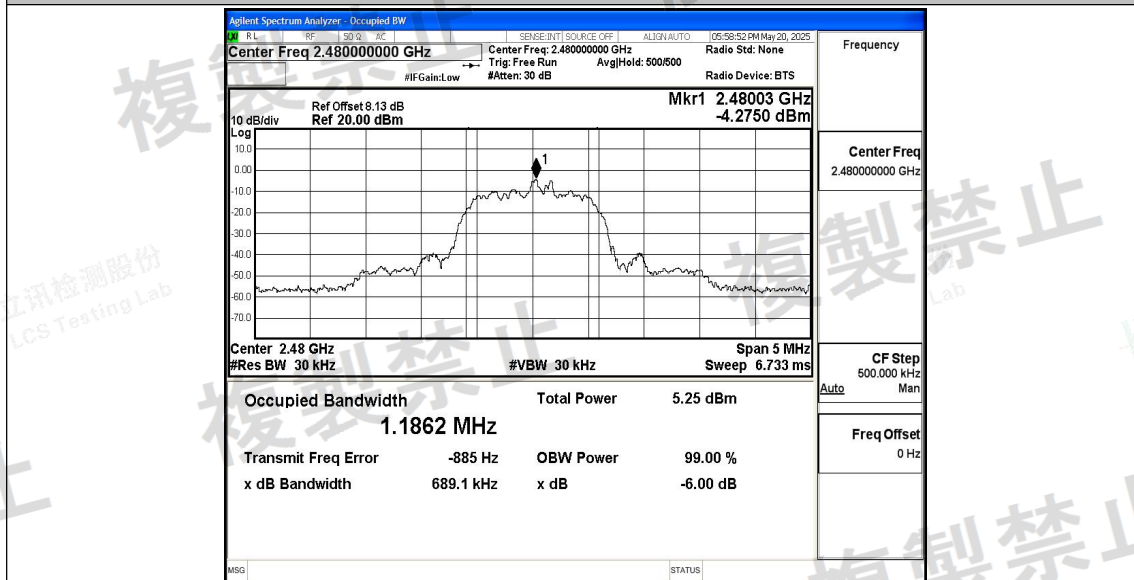


NTNV_2DH5_Ant1_2441





NTNV_2DH5_Ant1_2480



NTNV_3DH5_Ant1_2402

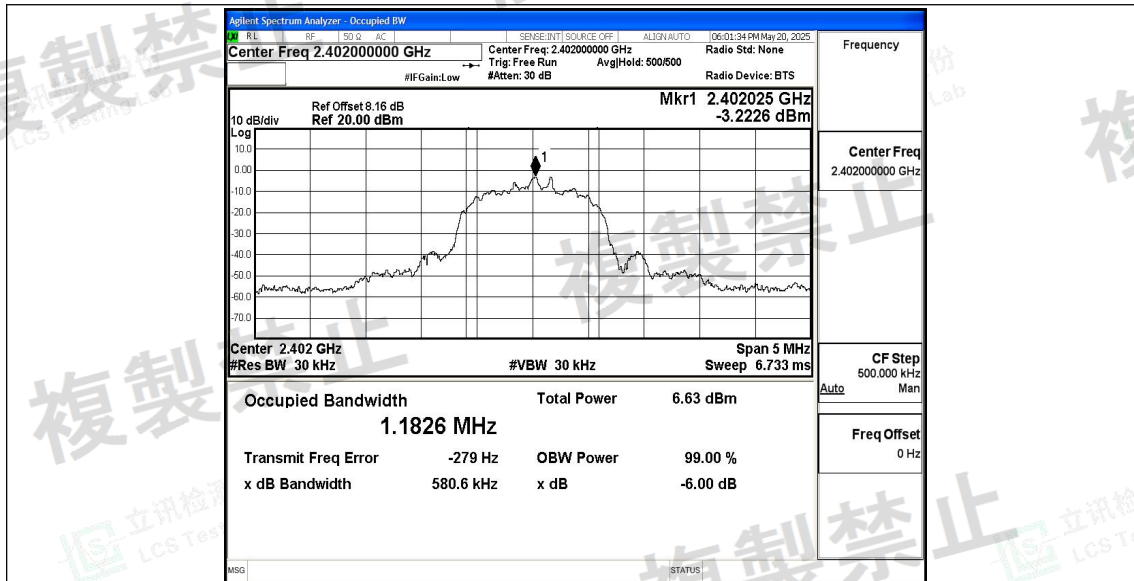


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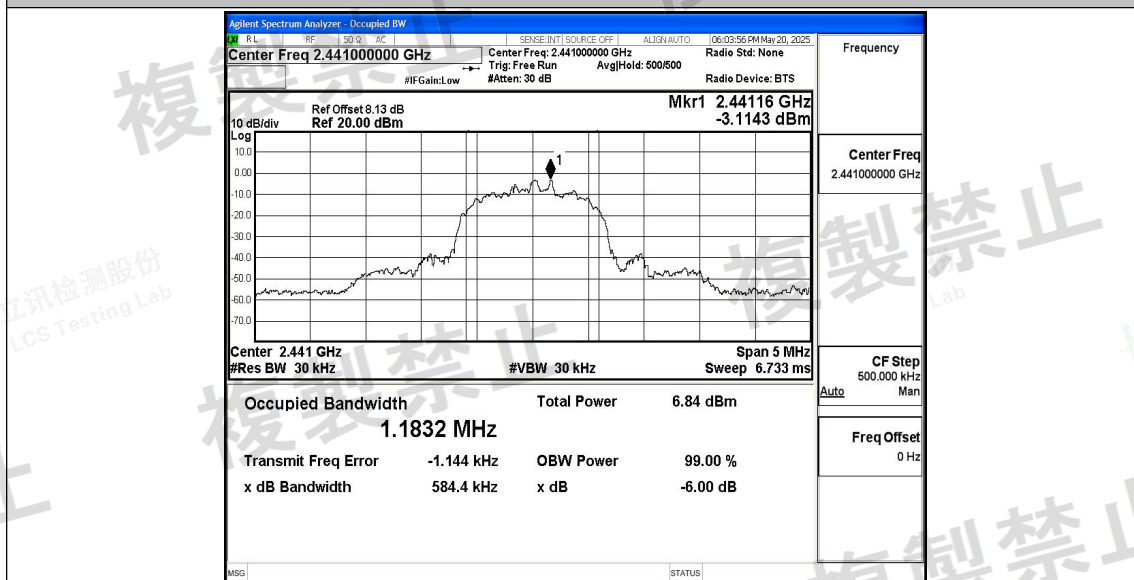
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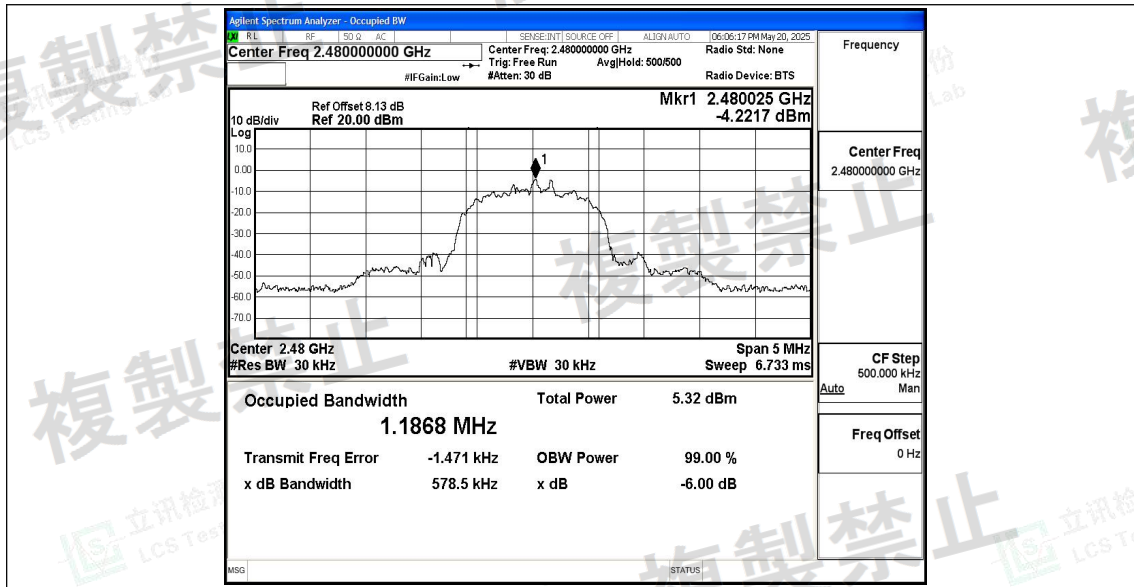


NTNV_3DH5_Ant1_2441



NTNV_3DH5_Ant1_2480





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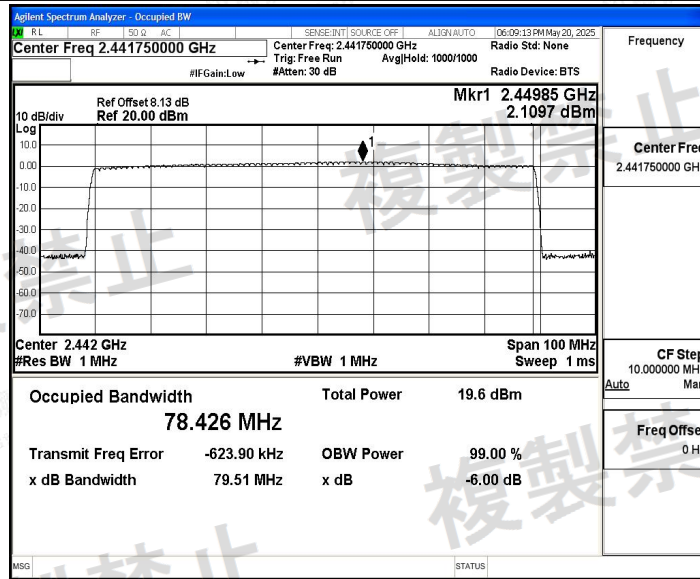
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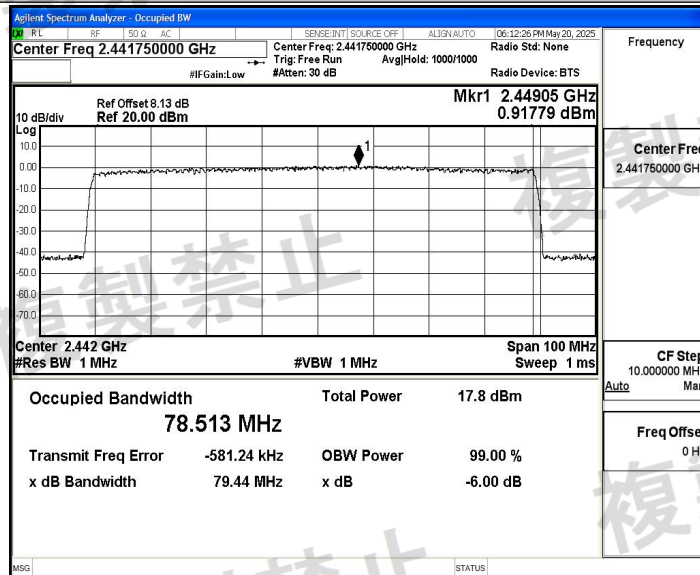
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NTNV_DH5_Ant1_Hop



NTNV_2DH5_Ant1_Hop



NTNV_3DH5_Ant1_Hop

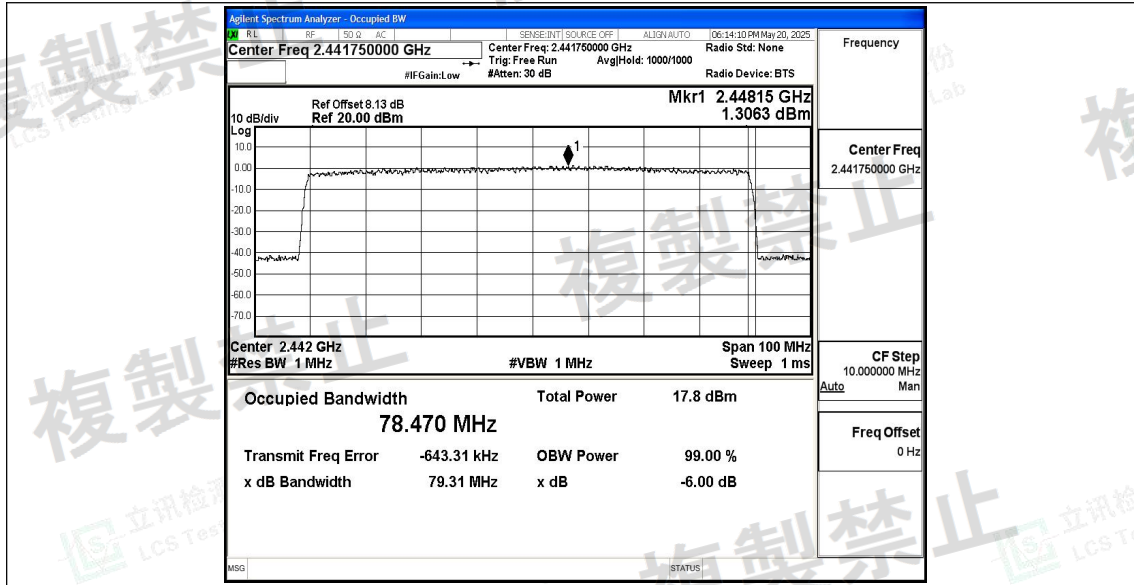


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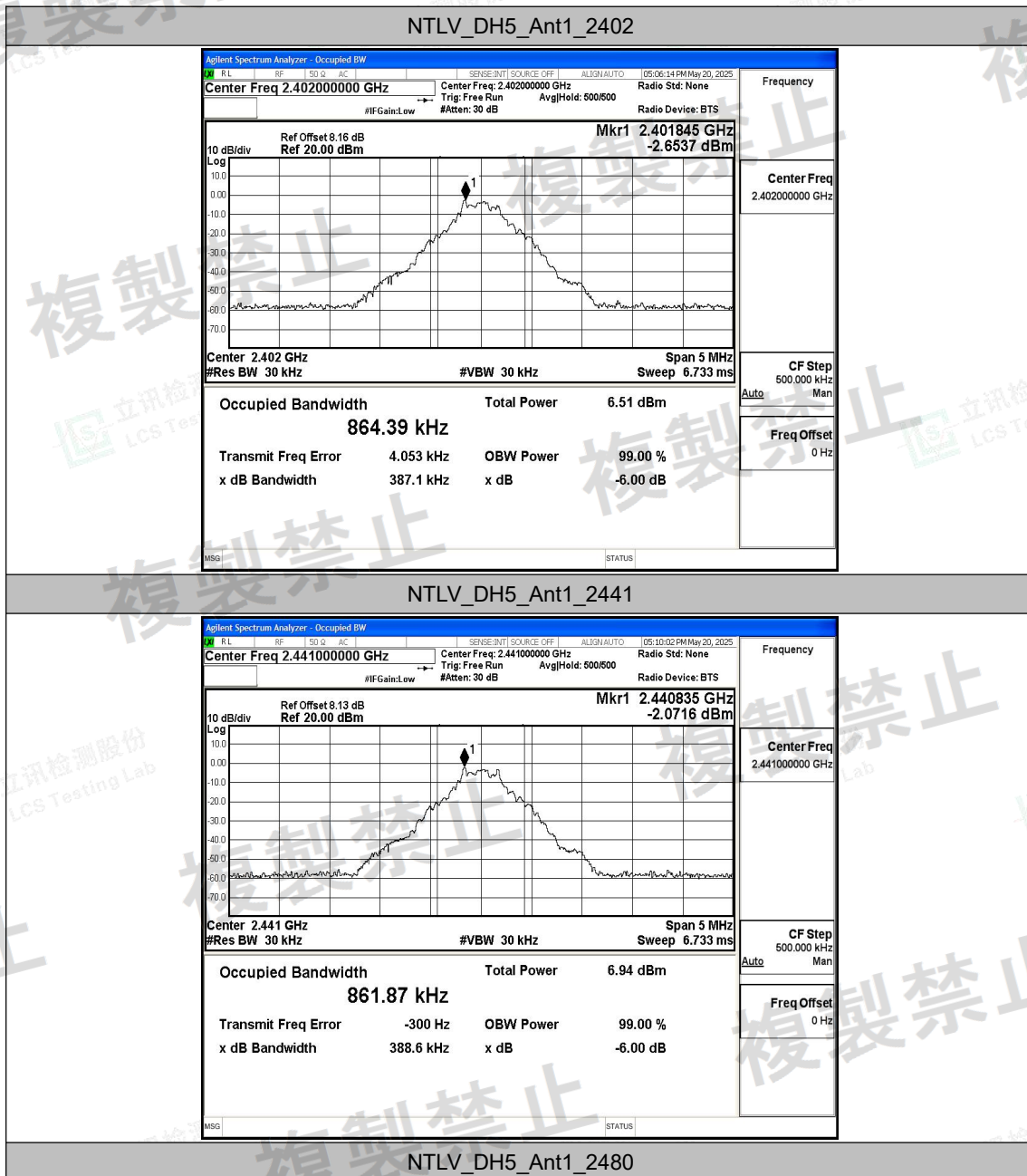
TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTLV	DH5	Ant1	2402	0.864	≤83.5	PASS
			2441	0.862	≤83.5	PASS
			2480	0.861	≤83.5	PASS
	2DH5	Ant1	2402	1.182	≤83.5	PASS
			2441	1.186	≤83.5	PASS
			2480	1.182	≤83.5	PASS
	3DH5	Ant1	2402	1.184	≤83.5	PASS
			2441	1.183	≤83.5	PASS
			2480	1.188	≤83.5	PASS

TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTLV	DH5	Ant1	Hop	78.423	≤83.5	PASS
	2DH5	Ant1	Hop	78.545	≤83.5	PASS
	3DH5	Ant1	Hop	78.448	≤83.5	PASS





Test Graphs

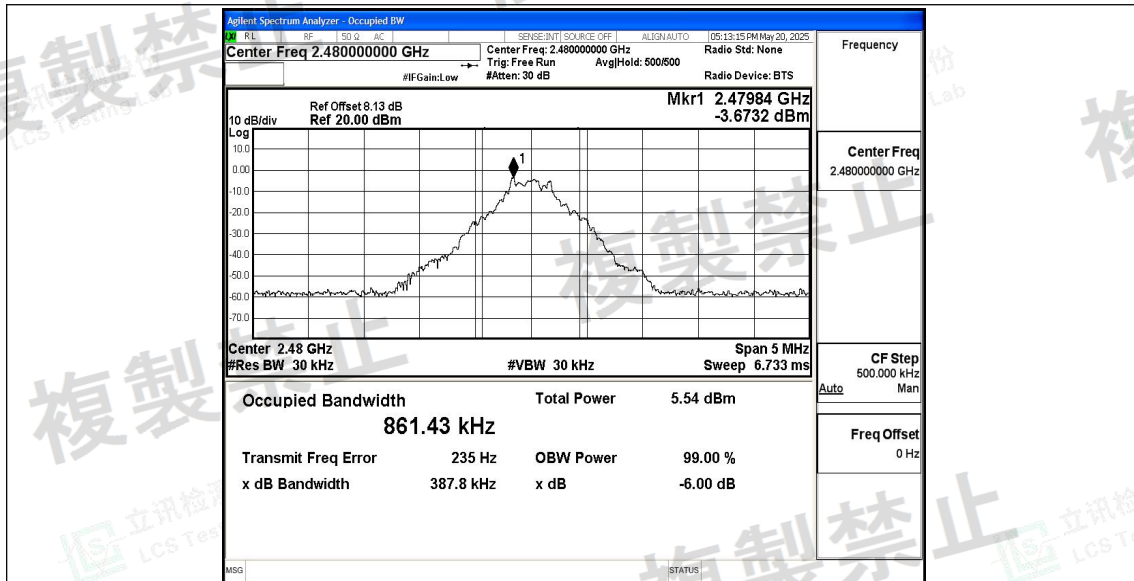


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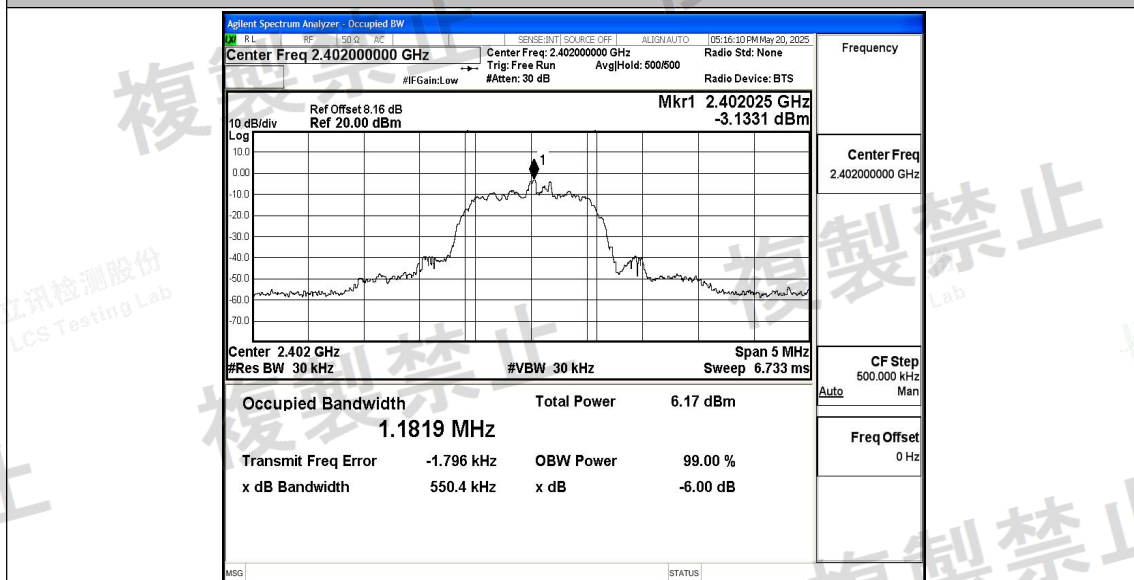
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NTLV_2DH5_Ant1_2402



NTLV_2DH5_Ant1_2441

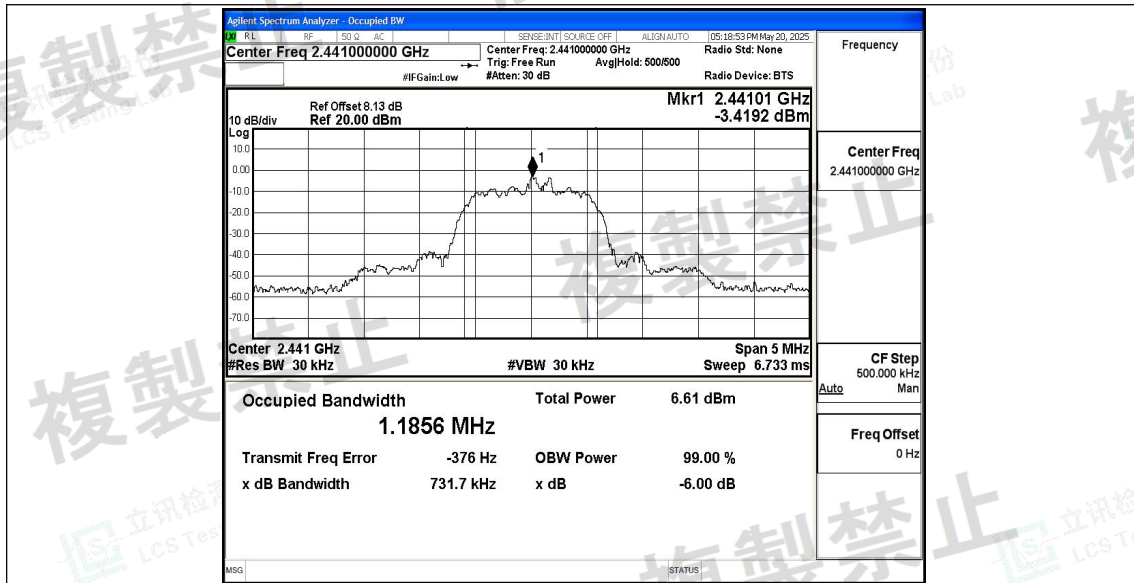


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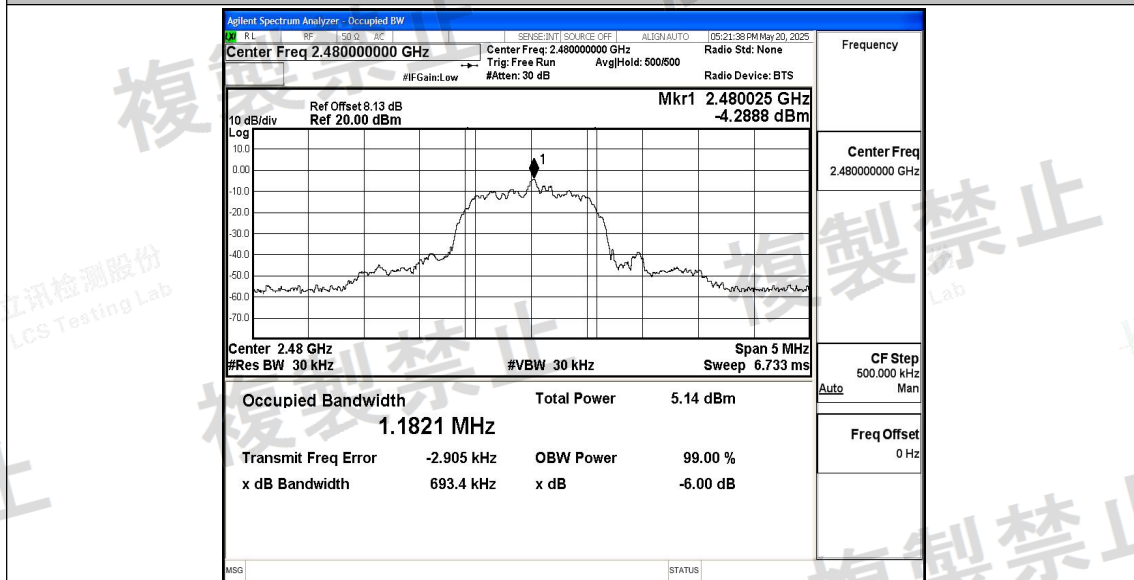
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NTLV_2DH5_Ant1_2480



NTLV_3DH5_Ant1_2402

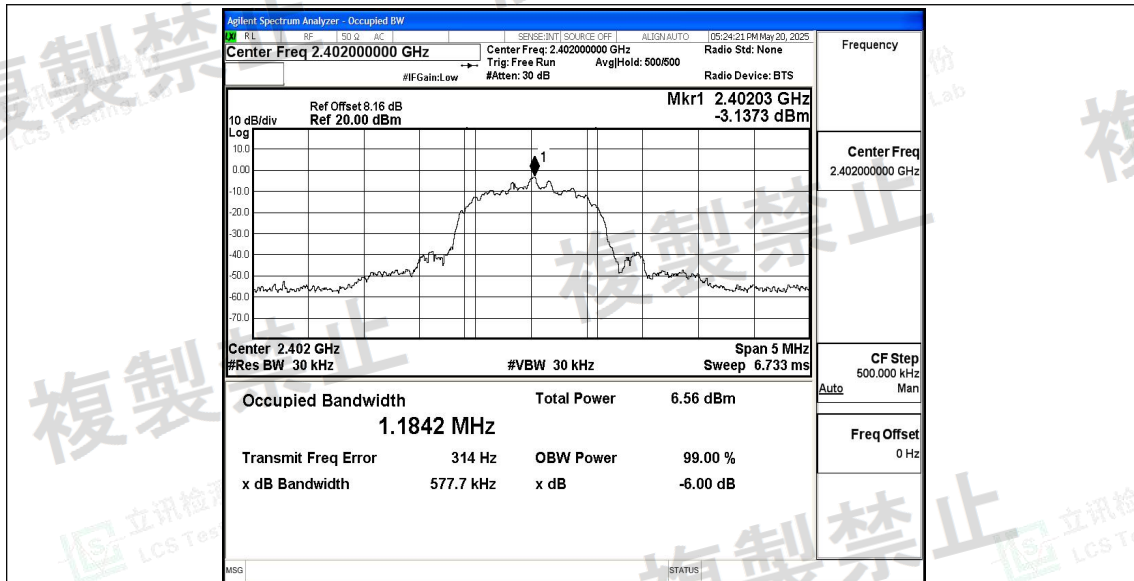


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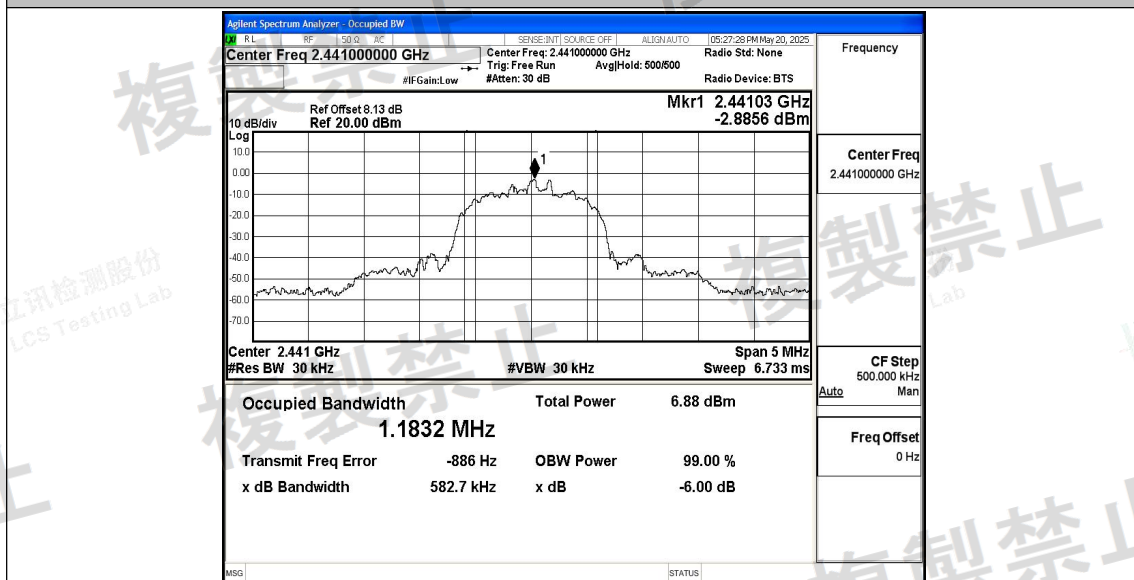
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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NTLV_3DH5_Ant1_2441



NTLV_3DH5_Ant1_2480

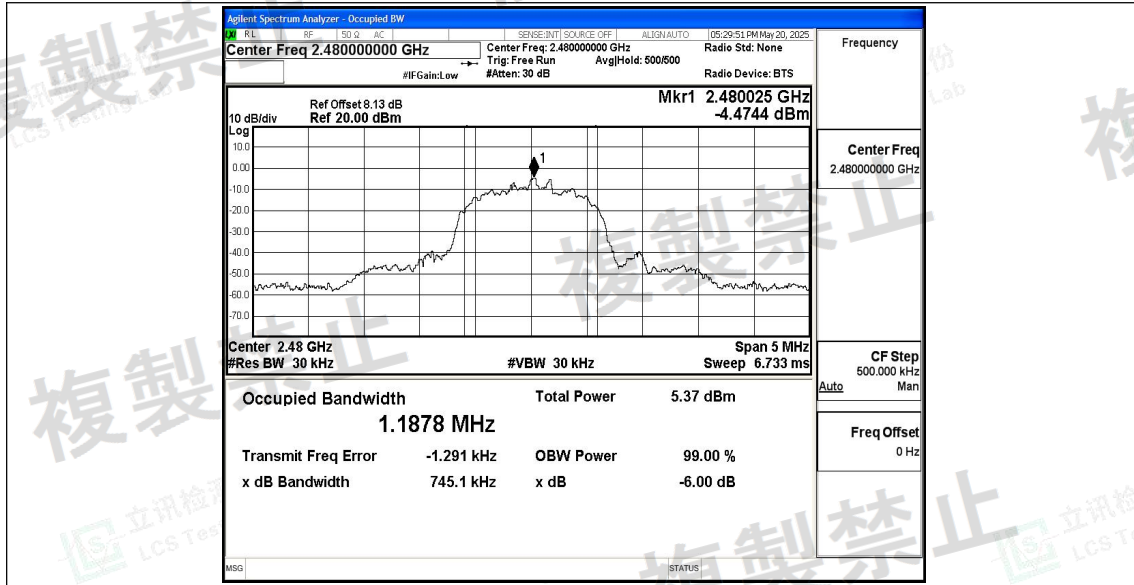


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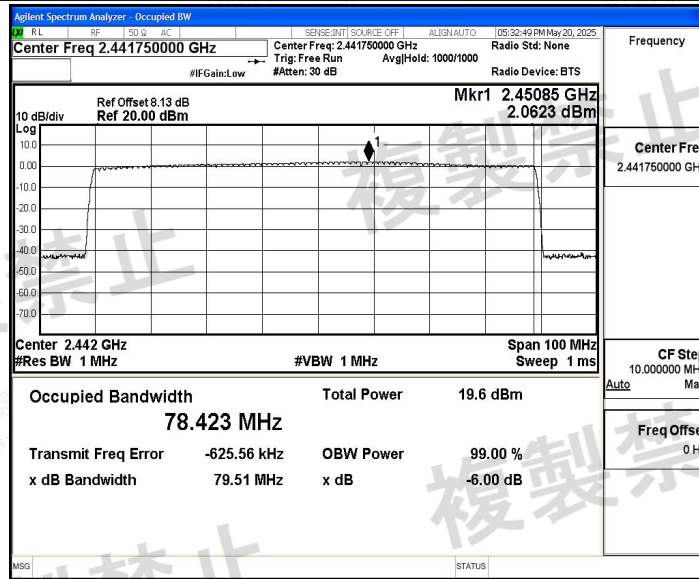
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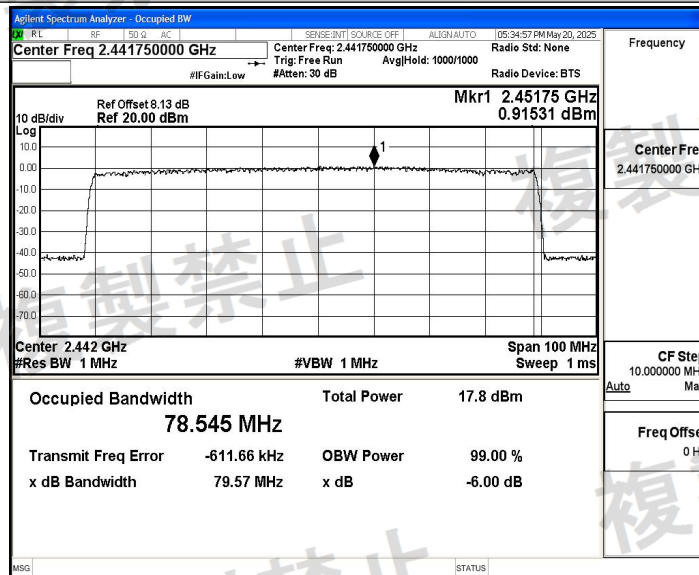
Scan code to check authenticity



NTLV_DH5_Ant1_Hop



NTLV_2DH5_Ant1_Hop



NTLV_3DH5_Ant1_Hop

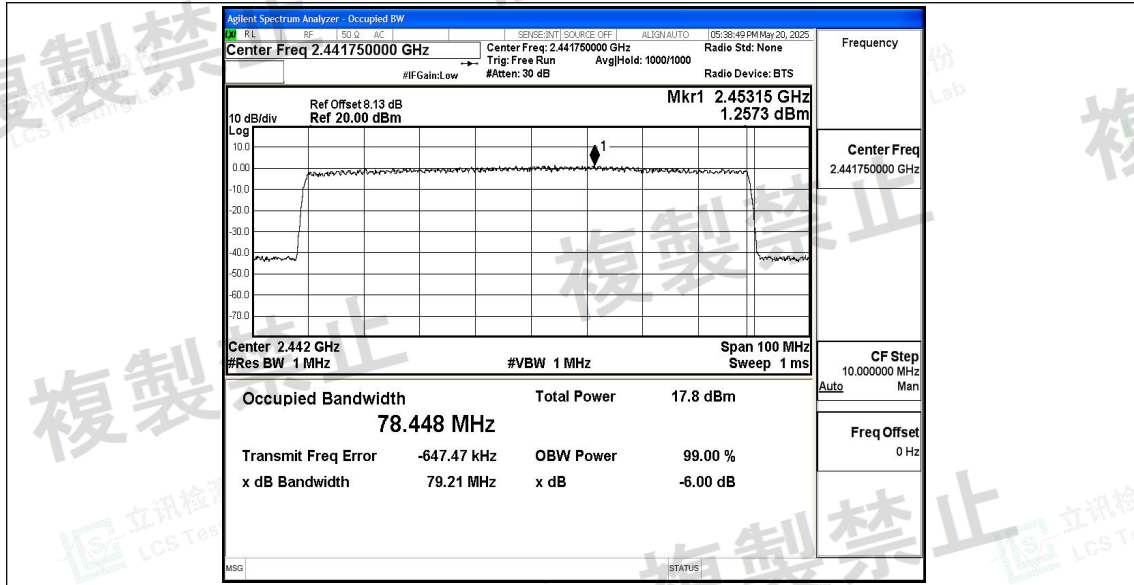


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TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTHV	DH5	Ant1	2402	0.960	≤83.5	PASS
			2441	0.980	≤83.5	PASS
			2480	0.991	≤83.5	PASS
	2DH5	Ant1	2402	1.239	≤83.5	PASS
			2441	1.258	≤83.5	PASS
			2480	1.259	≤83.5	PASS
	3DH5	Ant1	2402	1.215	≤83.5	PASS
			2441	1.239	≤83.5	PASS
			2480	1.242	≤83.5	PASS

TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTHV	DH5	Ant1	Hop	78.723	≤83.5	PASS
	2DH5	Ant1	Hop	78.873	≤83.5	PASS
	3DH5	Ant1	Hop	78.953	≤83.5	PASS



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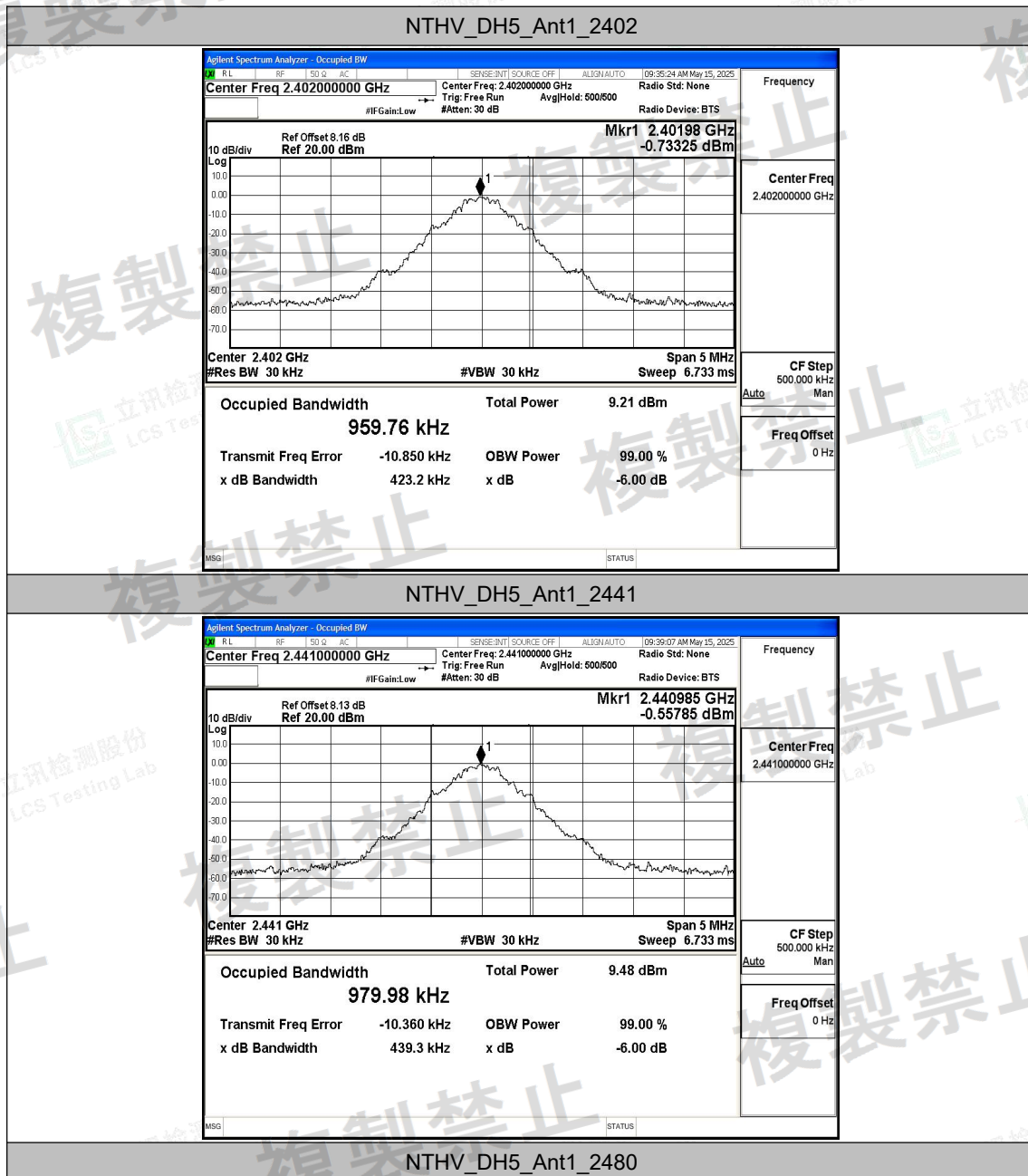
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Test Graphs

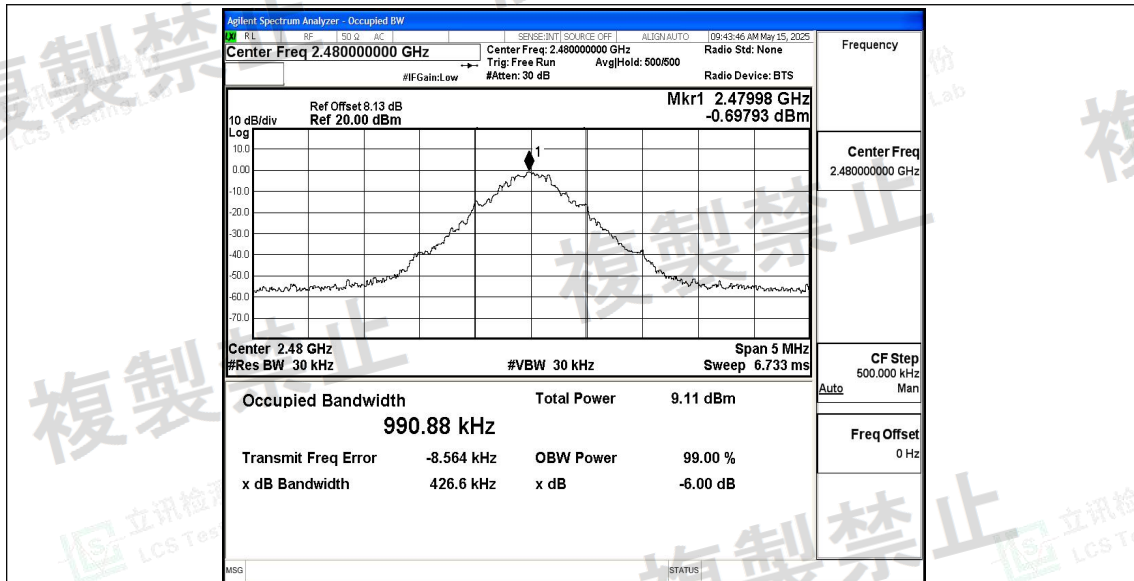


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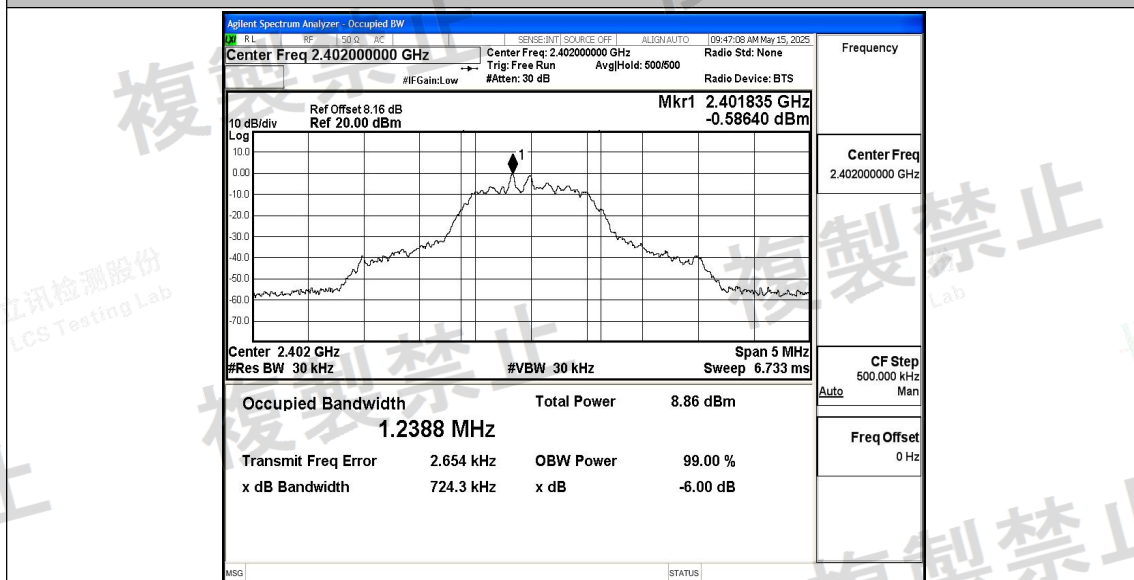
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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NTHV_2DH5_Ant1_2402



NTHV_2DH5_Ant1_2441

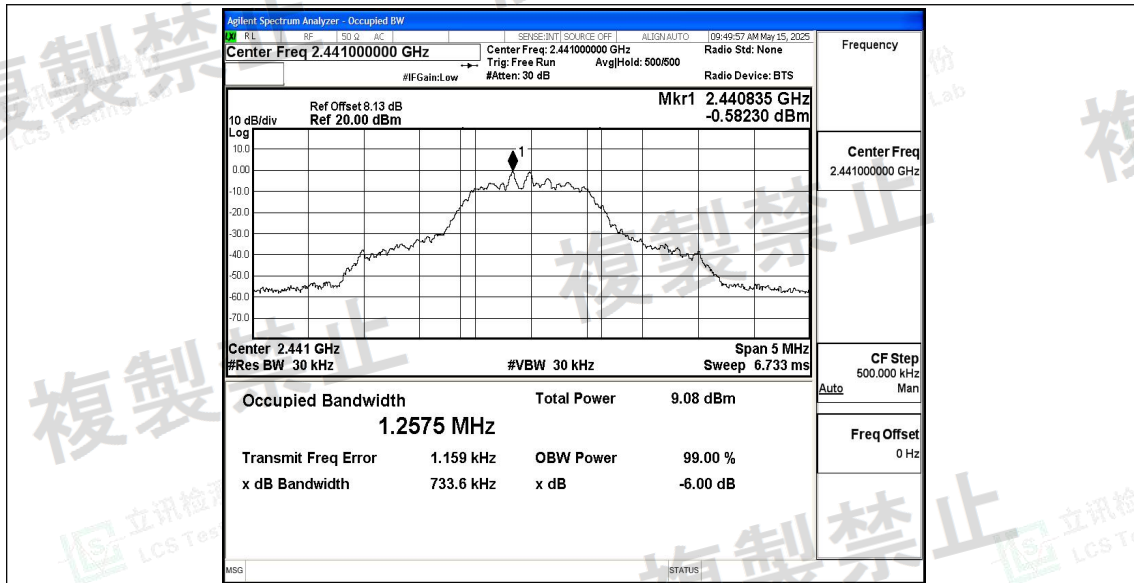


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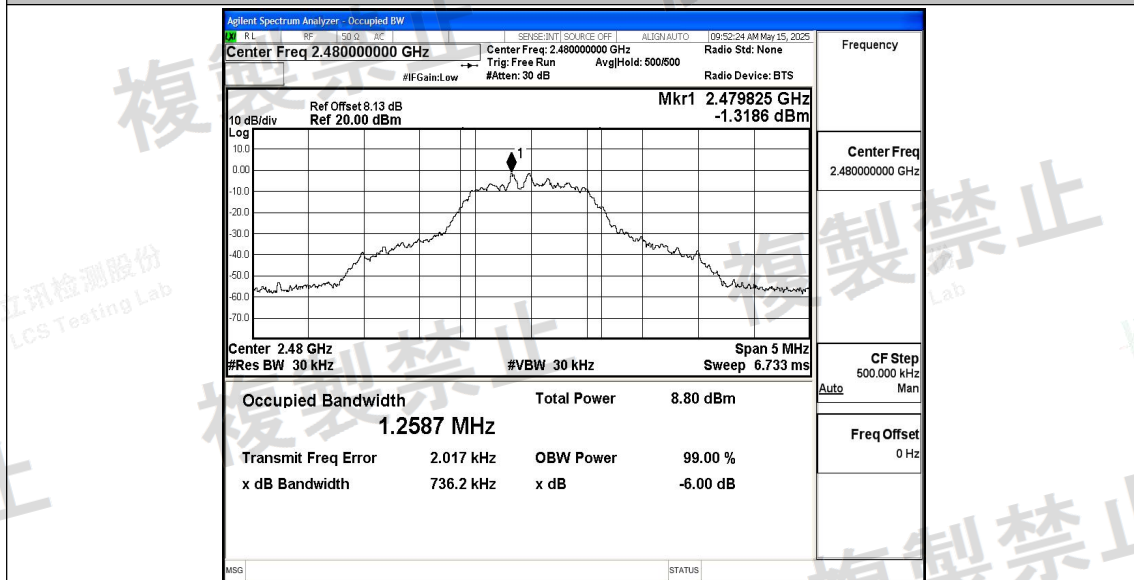
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NTHV_2DH5_Ant1_2480



NTHV_3DH5_Ant1_2402

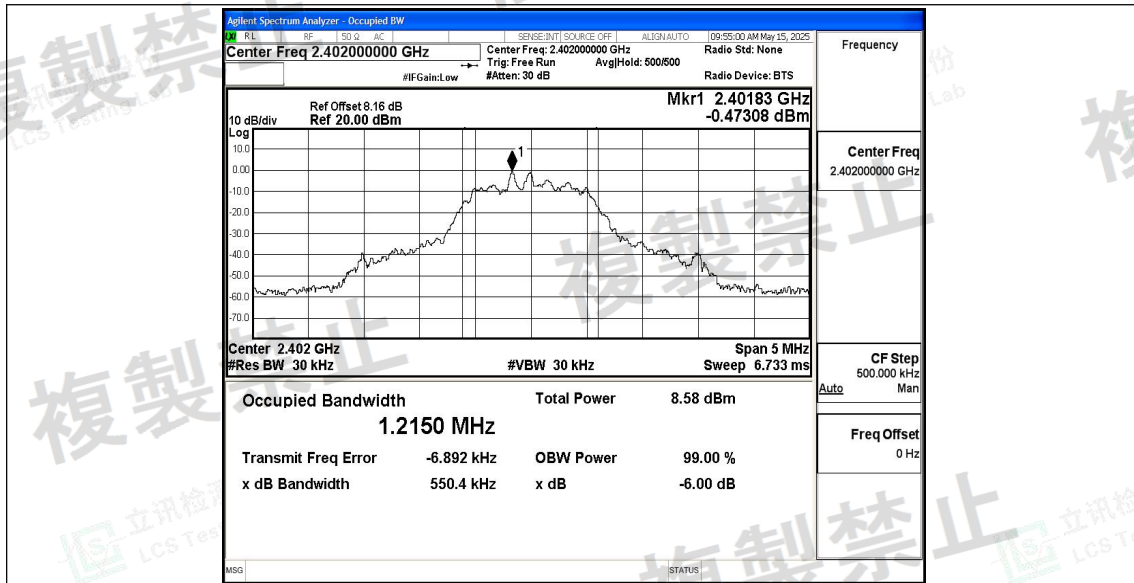


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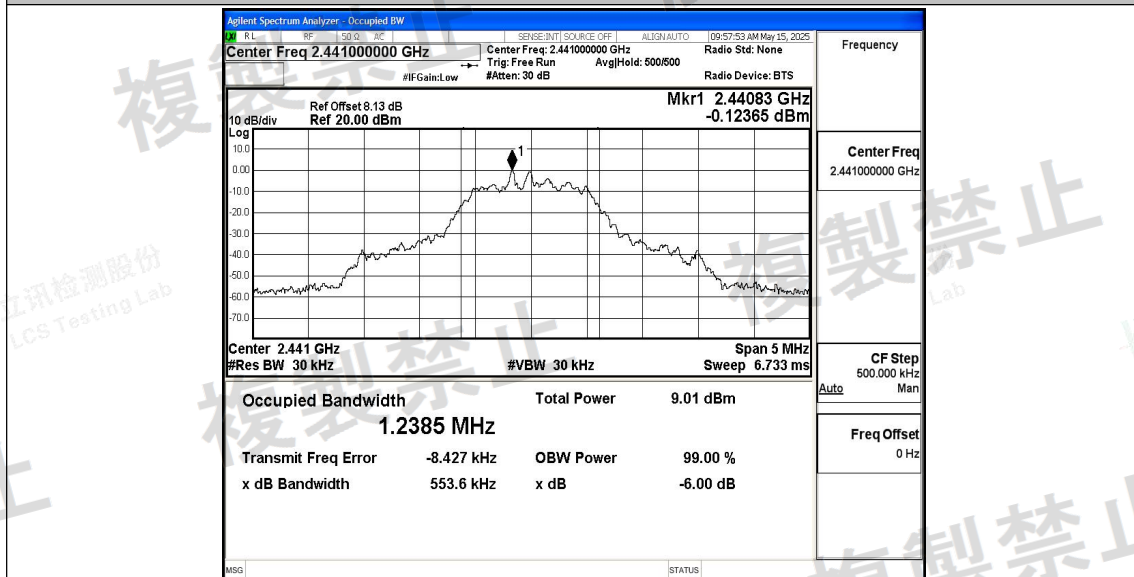
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NTHV_3DH5_Ant1_2441



NTHV_3DH5_Ant1_2480

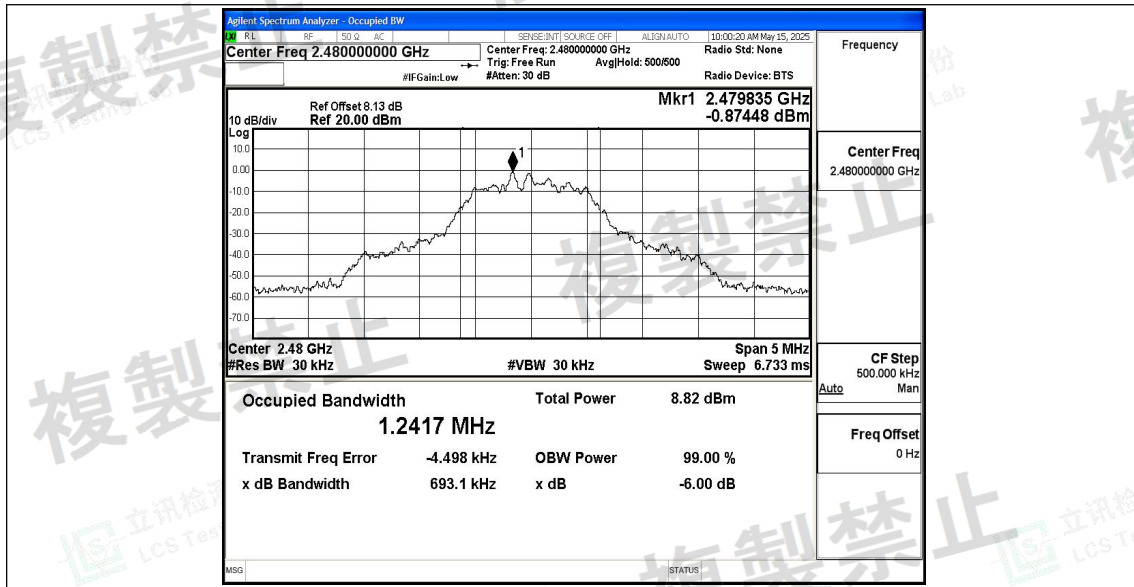


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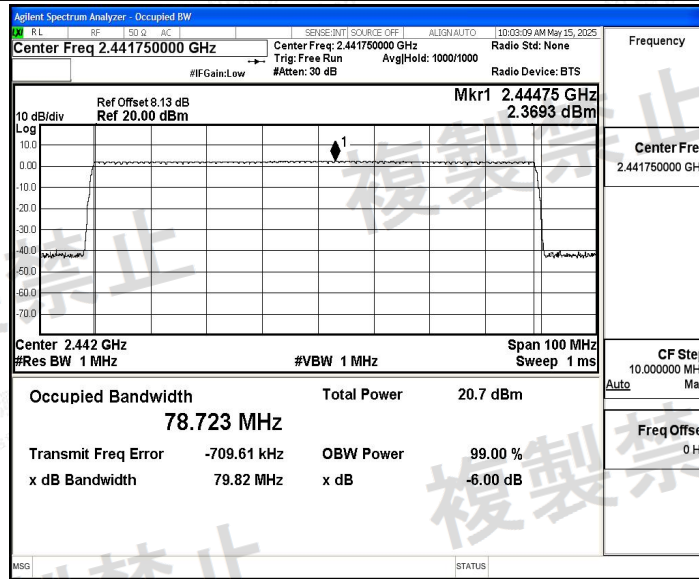
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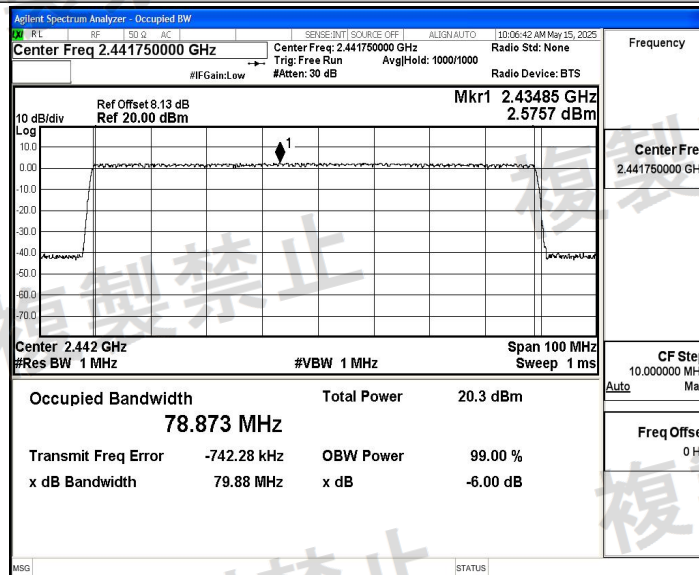
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NTHV_DH5_Ant1_Hop



NTHV_2DH5_Ant1_Hop



NTHV_3DH5_Ant1_Hop

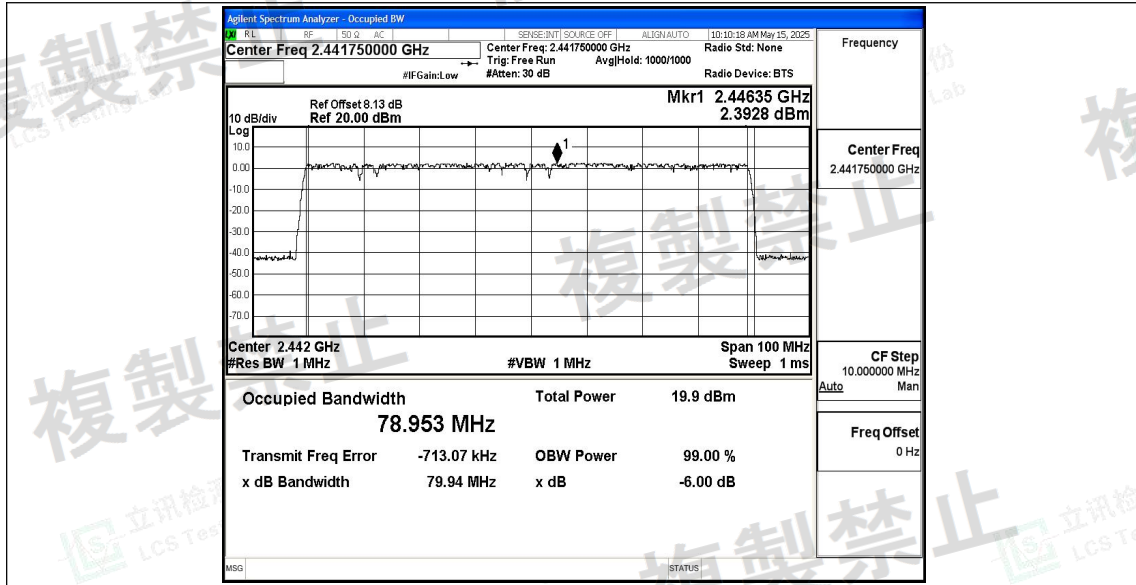


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A.4 Spread Bandwidth

Test Result

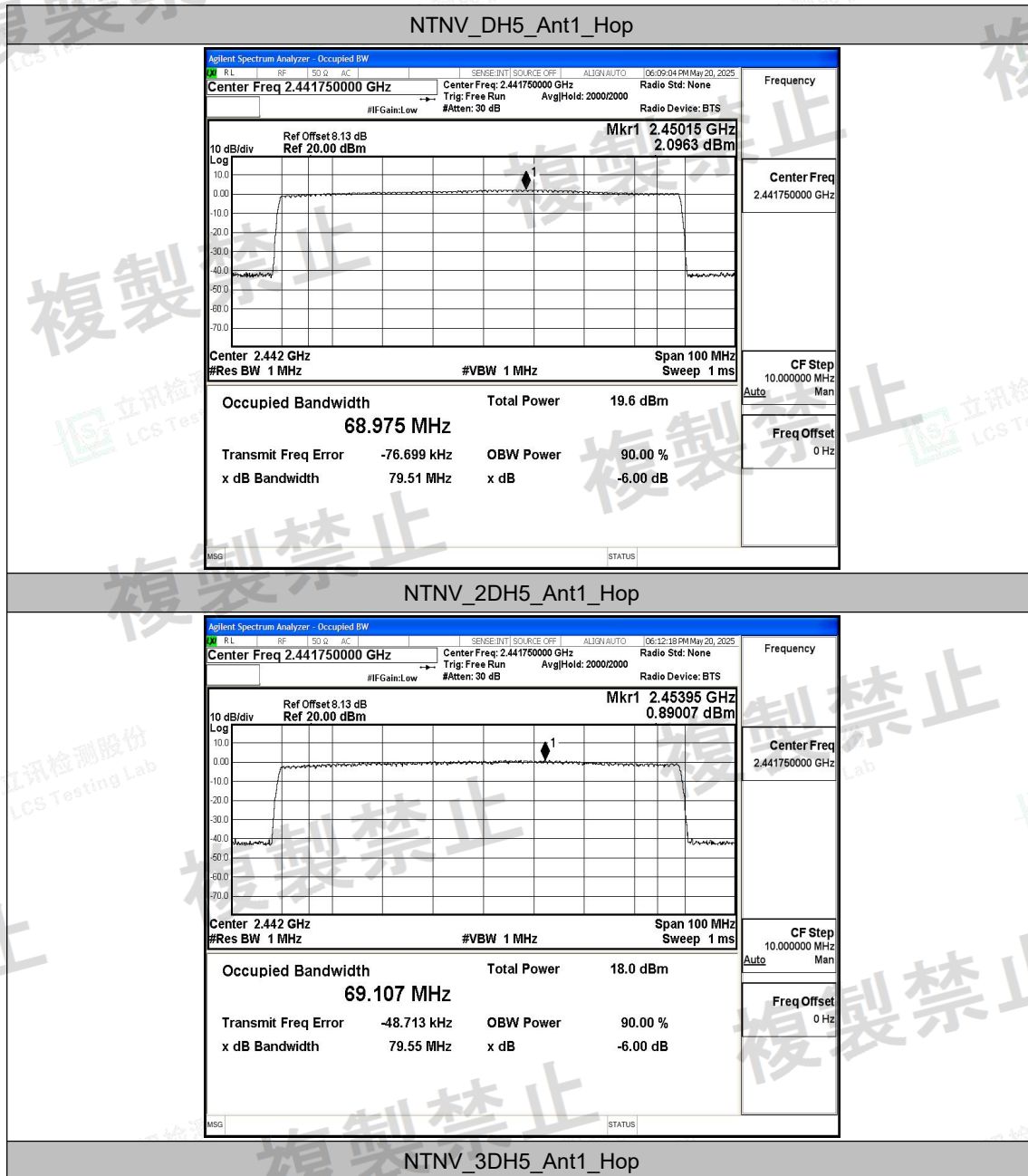
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Modulation Rate [MHz]	Spread Factor	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	68.975	1.00	68.975	≥0.5	PASS
	2DH5	Ant1	Hop	69.107	2.00	34.554	≥0.5	PASS
	3DH5	Ant1	Hop	68.902	3.00	22.967	≥0.5	PASS



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Test Graphs

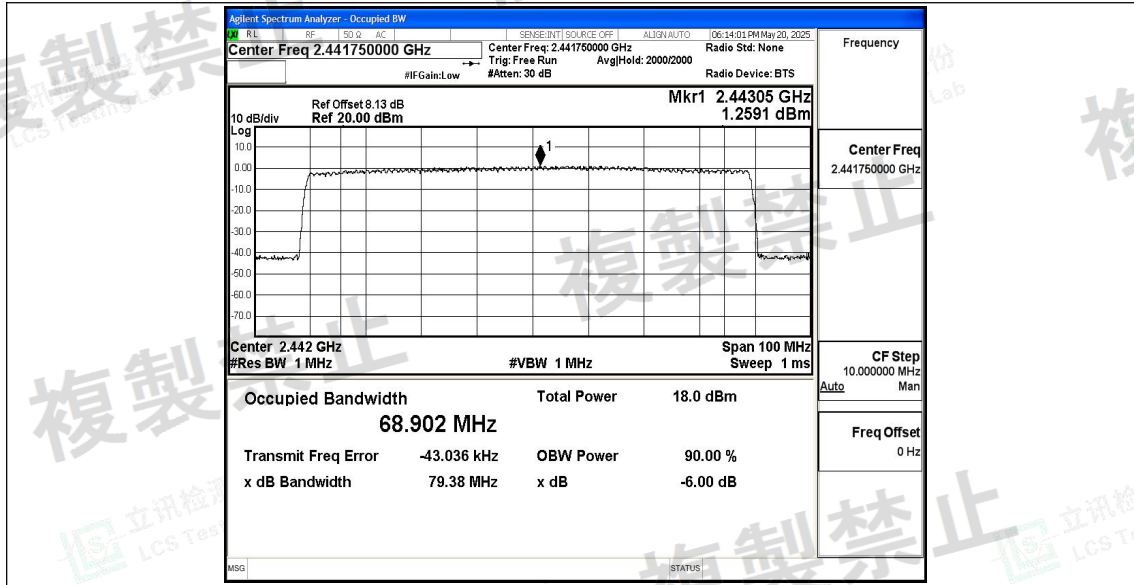


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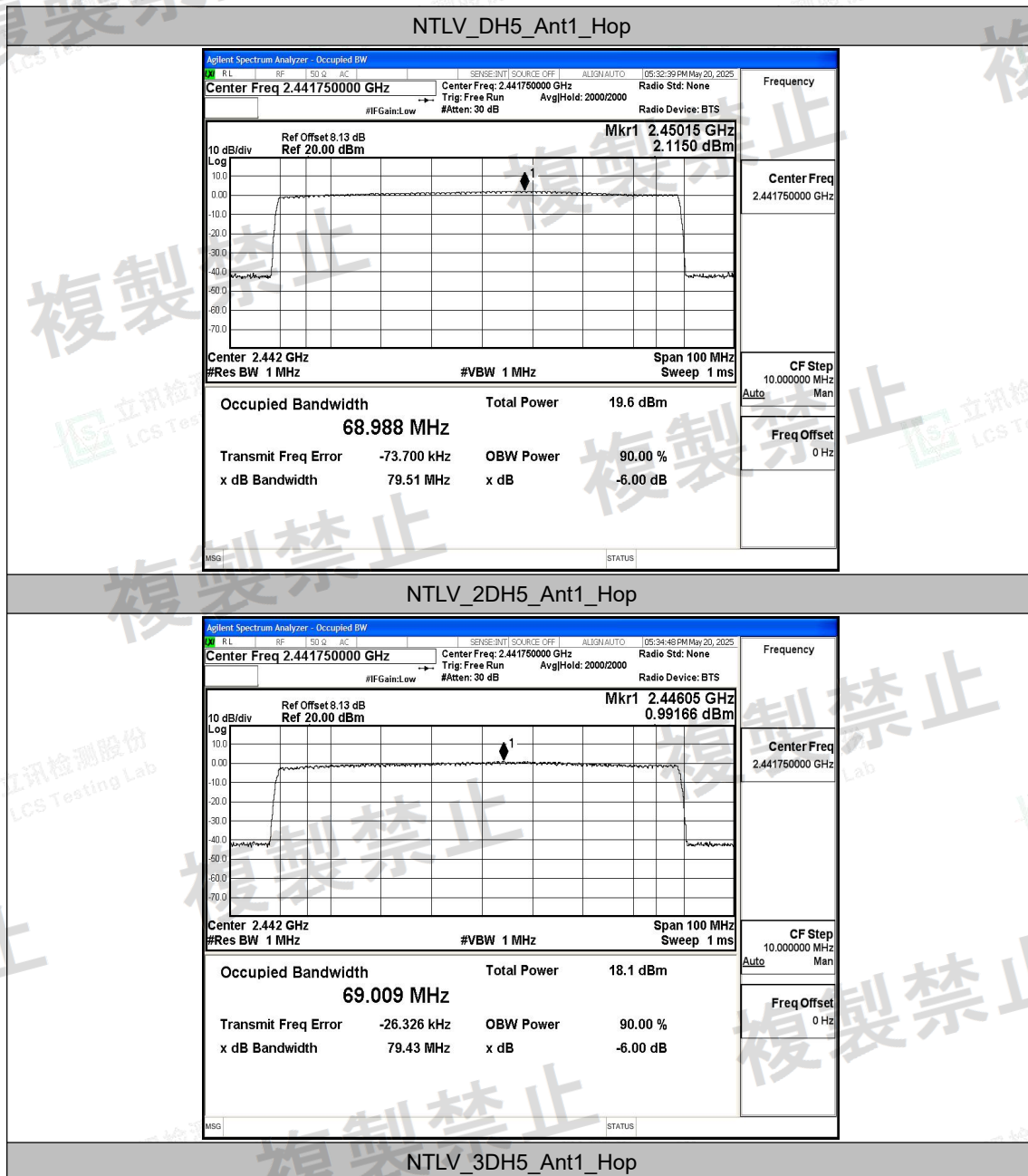
TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTLV	DH5	Ant1	Hop	68.988	≥0.5	PASS
	2DH5	Ant1	Hop	69.009	≥0.5	PASS
	3DH5	Ant1	Hop	69.067	≥0.5	PASS



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Test Graphs

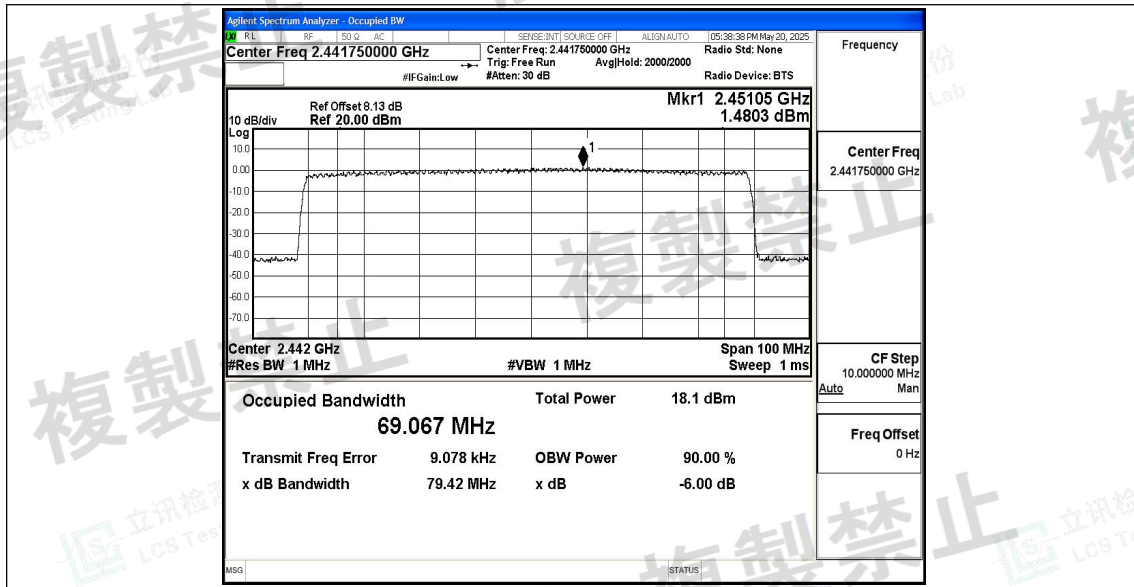


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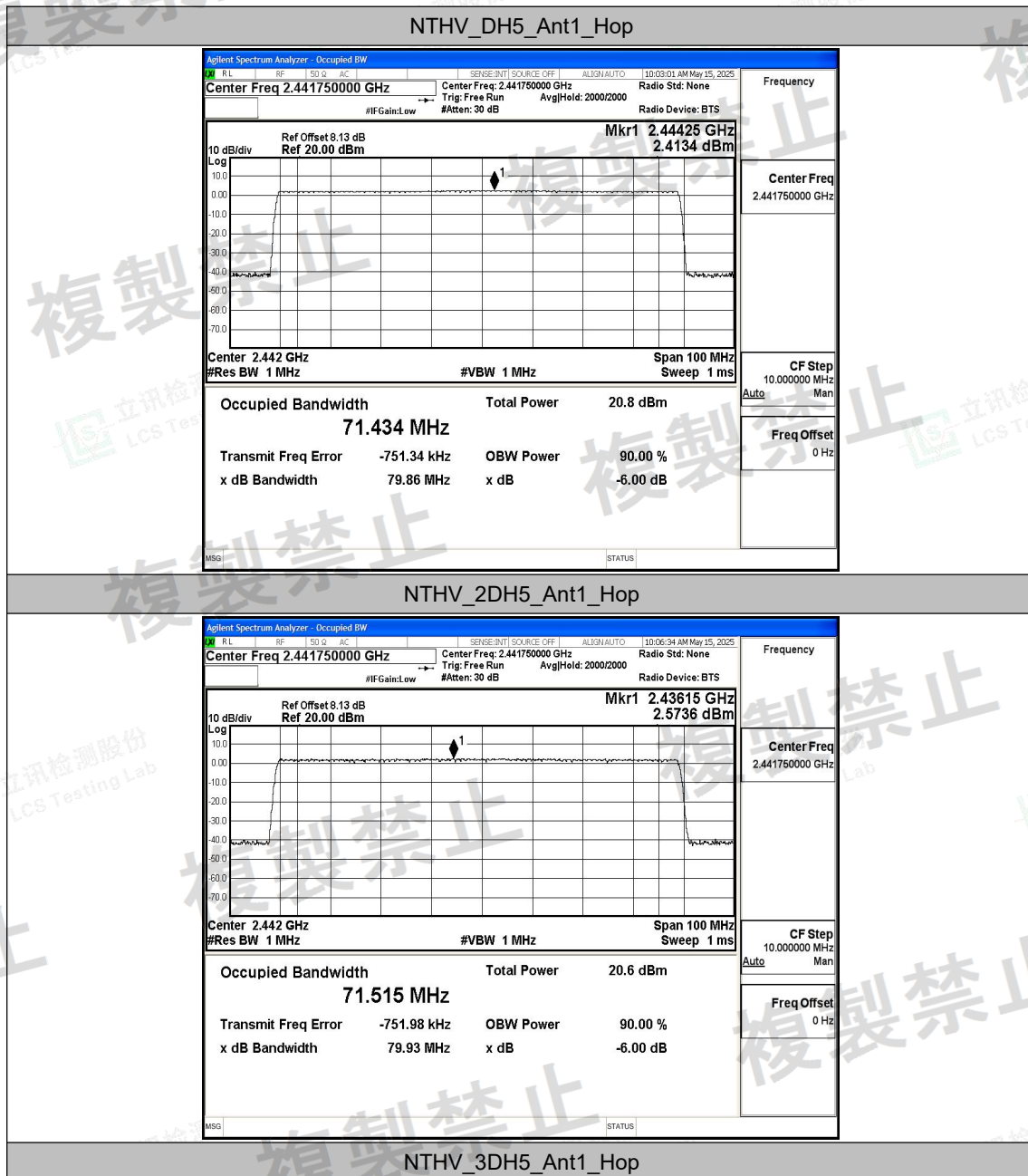
TestCondition	TestMode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
NTHV	DH5	Ant1	Hop	71.434	≥0.5	PASS
	2DH5	Ant1	Hop	71.515	≥0.5	PASS
	3DH5	Ant1	Hop	71.579	≥0.5	PASS



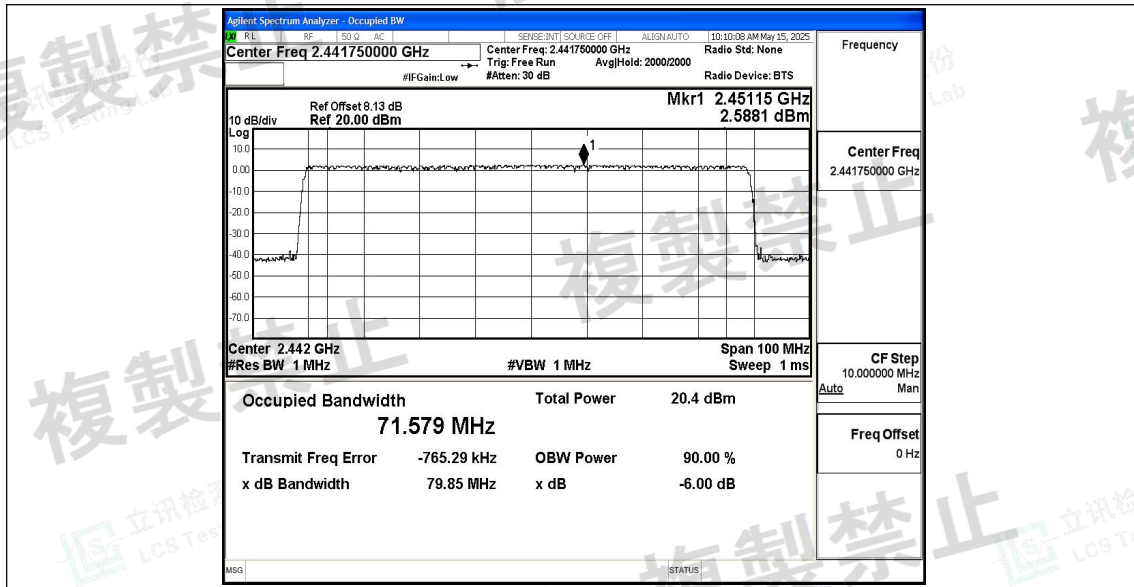
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Test Graphs



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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	-59.84	≤-26	0.00104	≤2.5	PASS
				1000~2387	-58.72	≤-26	0.00134	≤2.5	PASS
				2387~2400	-46.41	≤-16	0.02286	≤25	PASS
				2483.5~2496.5	-49.21	≤-16	0.01199	≤25	PASS
				2496.5~13000	-51.86	≤-26	0.00652	≤2.5	PASS
			2441	30~1000	-60.21	≤-26	0.00095	≤2.5	PASS
				1000~2387	-59.02	≤-26	0.00125	≤2.5	PASS
				2387~2400	-49.49	≤-16	0.01125	≤25	PASS
				2483.5~2496.5	-49.20	≤-16	0.01202	≤25	PASS
				2496.5~13000	-51.54	≤-26	0.00701	≤2.5	PASS
			2480	30~1000	-60.01	≤-26	0.00100	≤2.5	PASS
				1000~2387	-58.90	≤-26	0.00129	≤2.5	PASS
				2387~2400	-49.42	≤-16	0.01143	≤25	PASS
				2483.5~2496.5	-49.38	≤-16	0.01153	≤25	PASS
				2496.5~13000	-51.47	≤-26	0.00713	≤2.5	PASS
	2DH5	Ant1	2402	30~1000	-59.62	≤-26	0.00109	≤2.5	PASS
				1000~2387	-58.08	≤-26	0.00156	≤2.5	PASS
				2387~2400	-38.00	≤-16	0.15849	≤25	PASS
				2483.5~2496.5	-49.46	≤-16	0.01132	≤25	PASS
				2496.5~13000	-51.50	≤-26	0.00708	≤2.5	PASS
			2441	30~1000	-59.98	≤-26	0.00100	≤2.5	PASS
				1000~2387	-58.72	≤-26	0.00134	≤2.5	PASS
				2387~2400	-49.45	≤-16	0.01135	≤25	PASS
				2483.5~2496.5	-49.04	≤-16	0.01247	≤25	PASS
				2496.5~13000	-51.86	≤-26	0.00652	≤2.5	PASS
			2480	30~1000	-60.02	≤-26	0.00100	≤2.5	PASS
				1000~2387	-58.86	≤-26	0.00130	≤2.5	PASS
				2387~2400	-49.59	≤-16	0.01099	≤25	PASS
				2483.5~2496.5	-49.40	≤-16	0.01148	≤25	PASS
				2496.5~13000	-51.08	≤-26	0.00780	≤2.5	PASS
	3DH5	Ant1	2402	30~1000	-59.71	≤-26	0.00107	≤2.5	PASS
				1000~2387	-49.84	≤-26	0.01038	≤2.5	PASS
				2387~2400	-38.47	≤-16	0.14223	≤25	PASS
				2483.5~2496.5	-49.32	≤-16	0.01169	≤25	PASS



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		2441	2496.5~13000	-51.31	≤-26	0.00740	≤2.5	PASS
			30~1000	-59.80	≤-26	0.00105	≤2.5	PASS
			1000~2387	-56.02	≤-26	0.00250	≤2.5	PASS
			2387~2400	-49.58	≤-16	0.01102	≤25	PASS
			2483.5~2496.5	-49.40	≤-16	0.01148	≤25	PASS
		2480	2496.5~13000	-51.36	≤-26	0.00731	≤2.5	PASS
			30~1000	-59.91	≤-26	0.00102	≤2.5	PASS
			1000~2387	-58.62	≤-26	0.00137	≤2.5	PASS
			2387~2400	-49.48	≤-16	0.01127	≤25	PASS
			2483.5~2496.5	-49.15	≤-16	0.01216	≤25	PASS
			2496.5~13000	-52.00	≤-26	0.00631	≤2.5	PASS

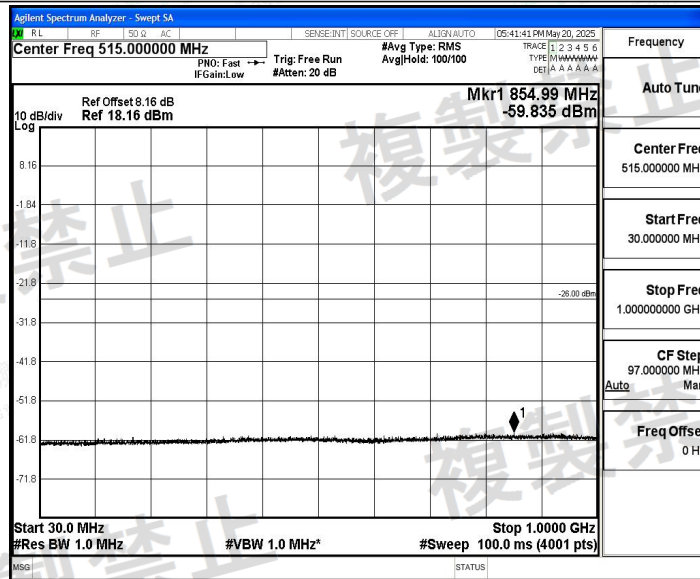


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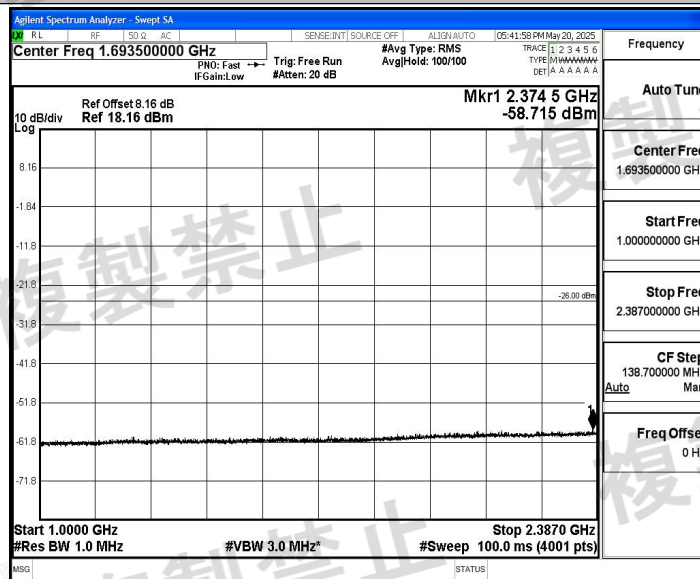


Test Graphs

NTNV_DH5_Ant1_2402_30~1000

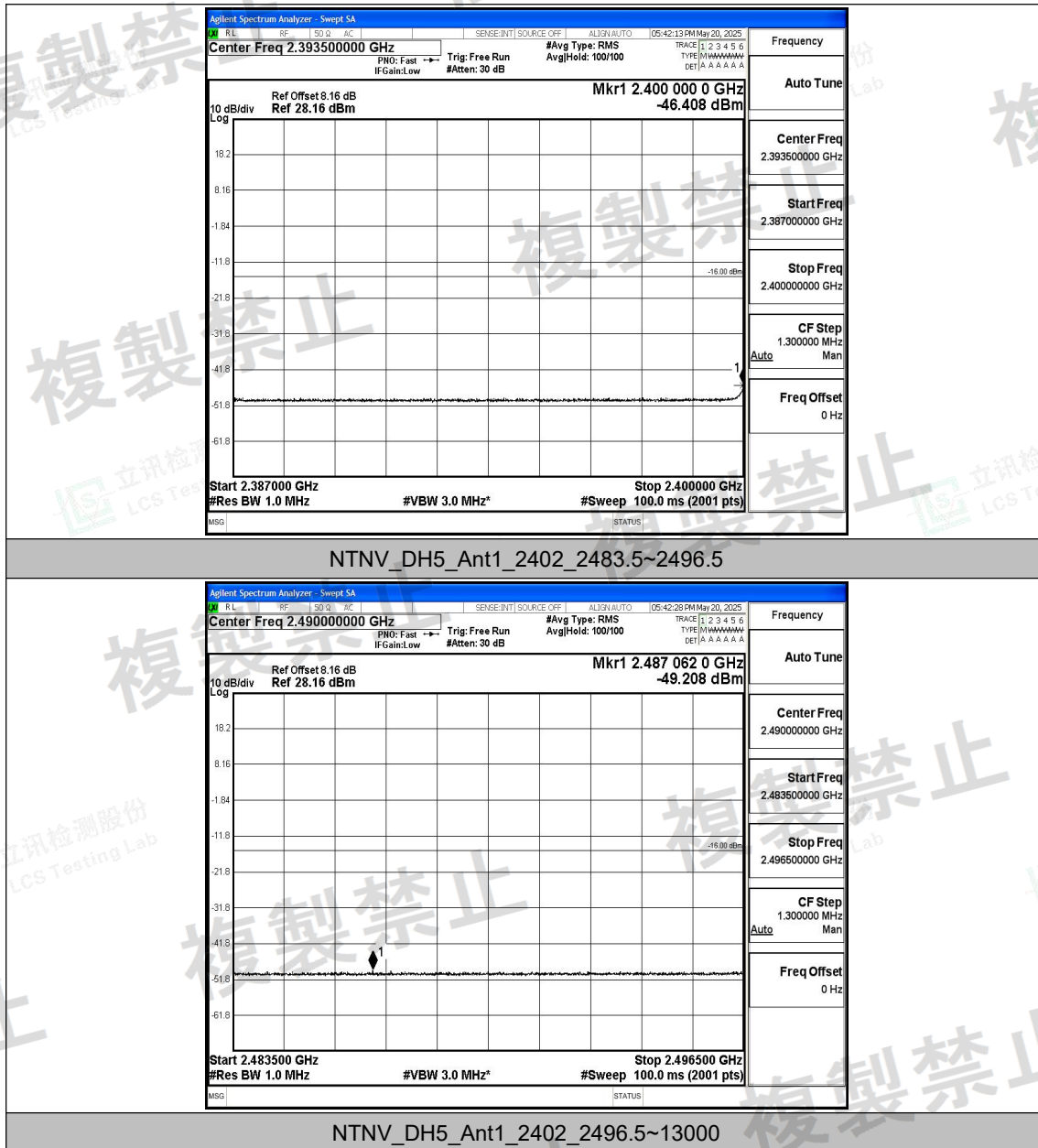


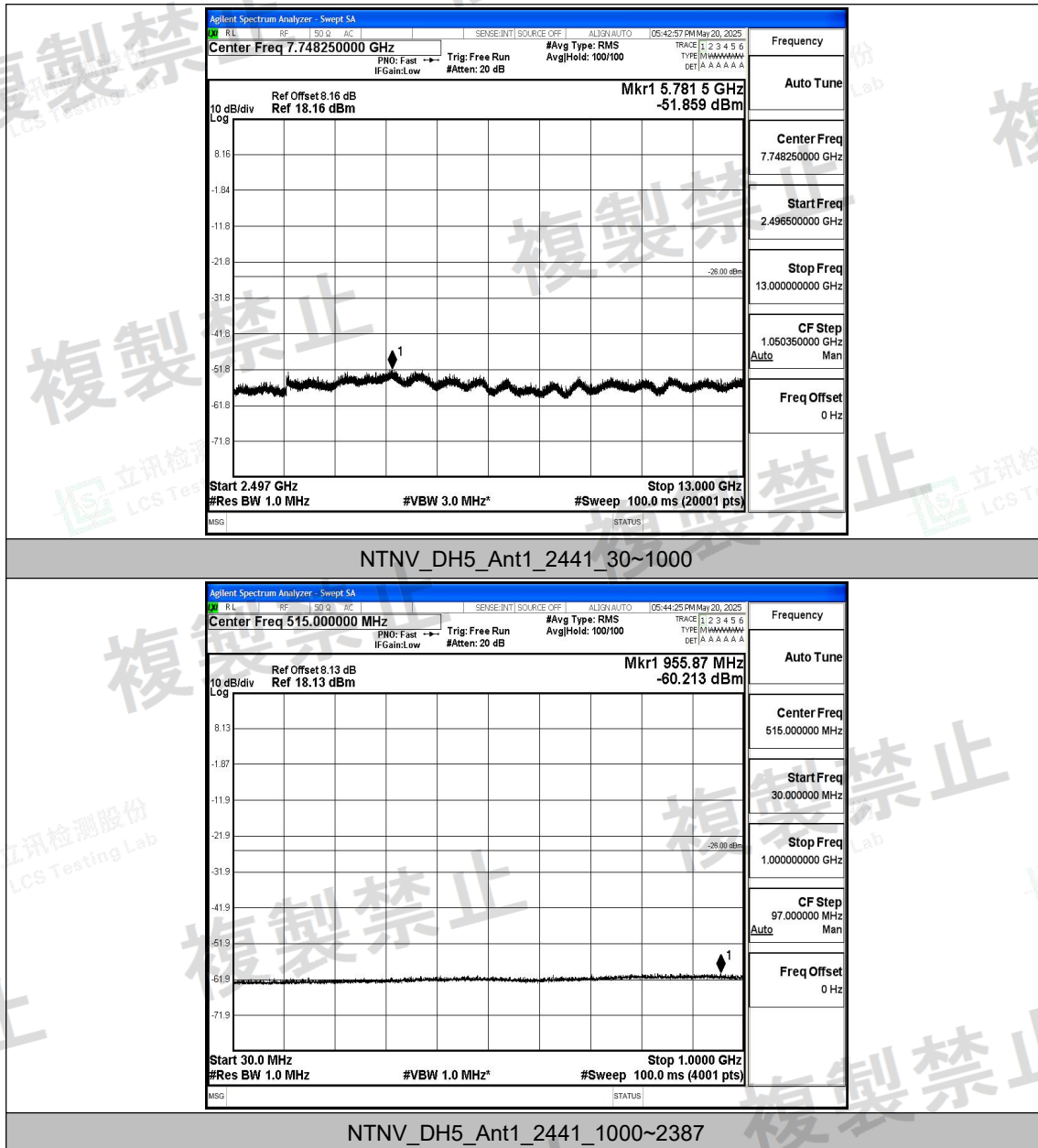
NTNV_DH5_Ant1_2402_1000~2387



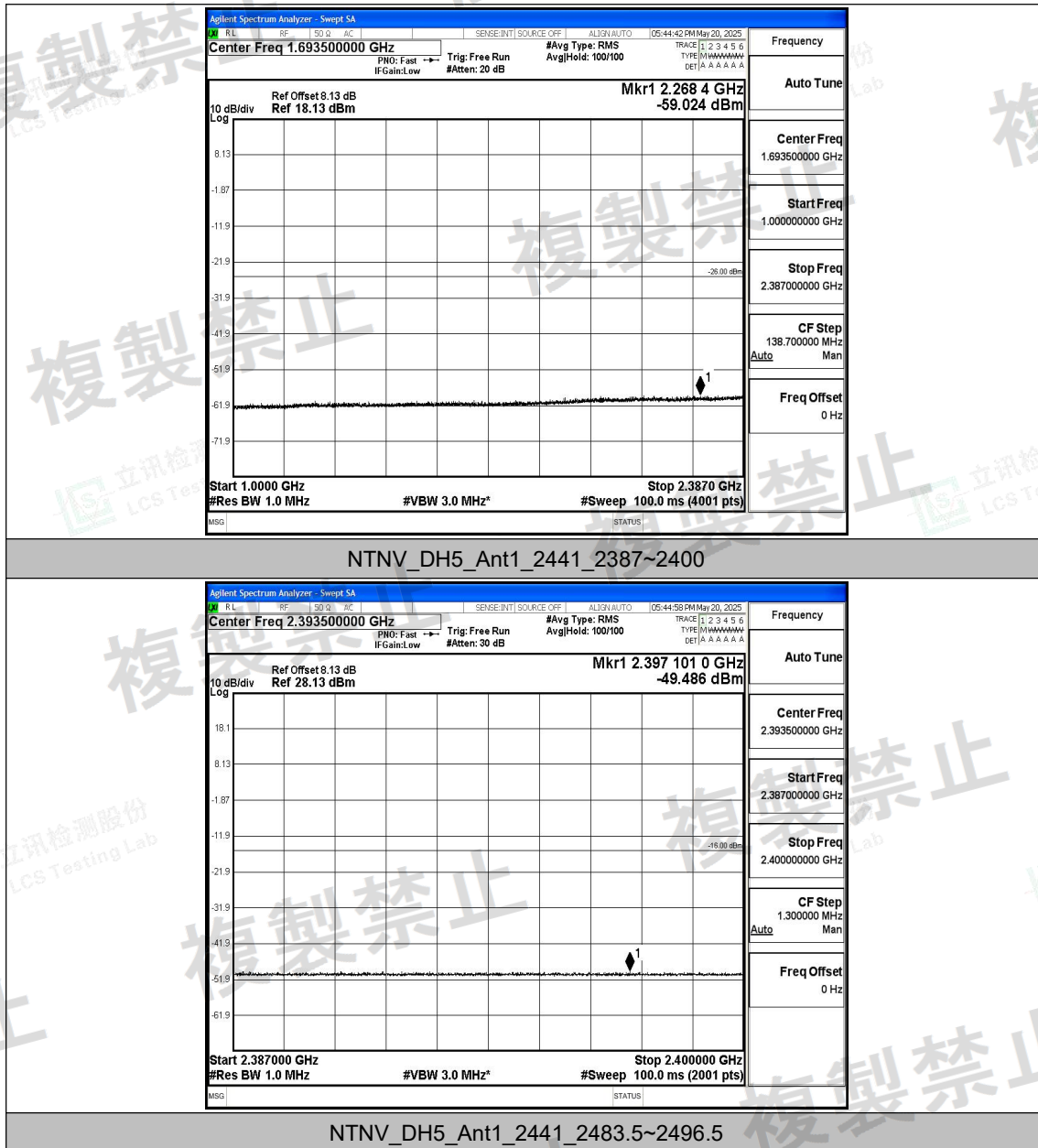
NTNV_DH5_Ant1_2402_2387~2400

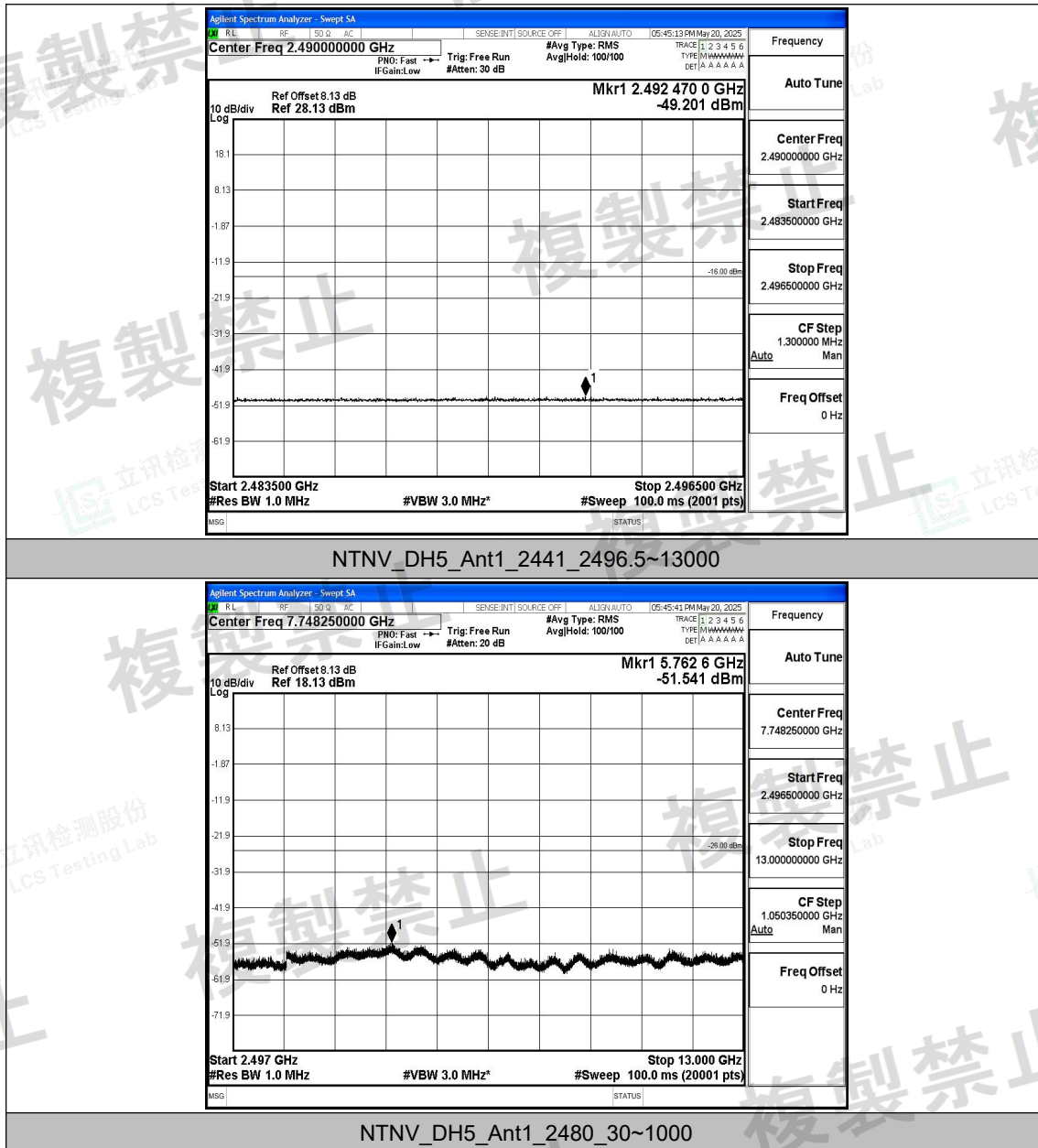




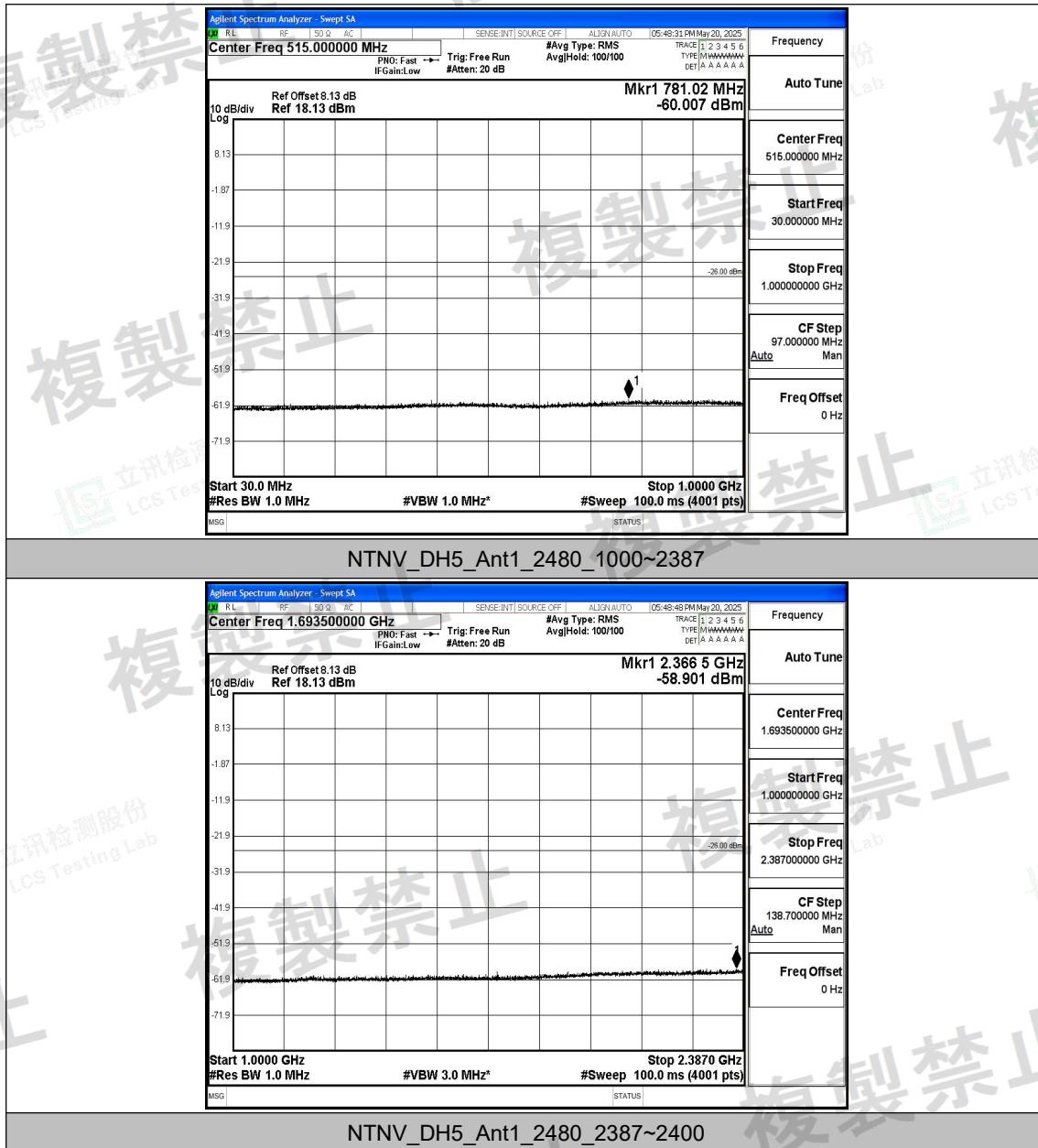


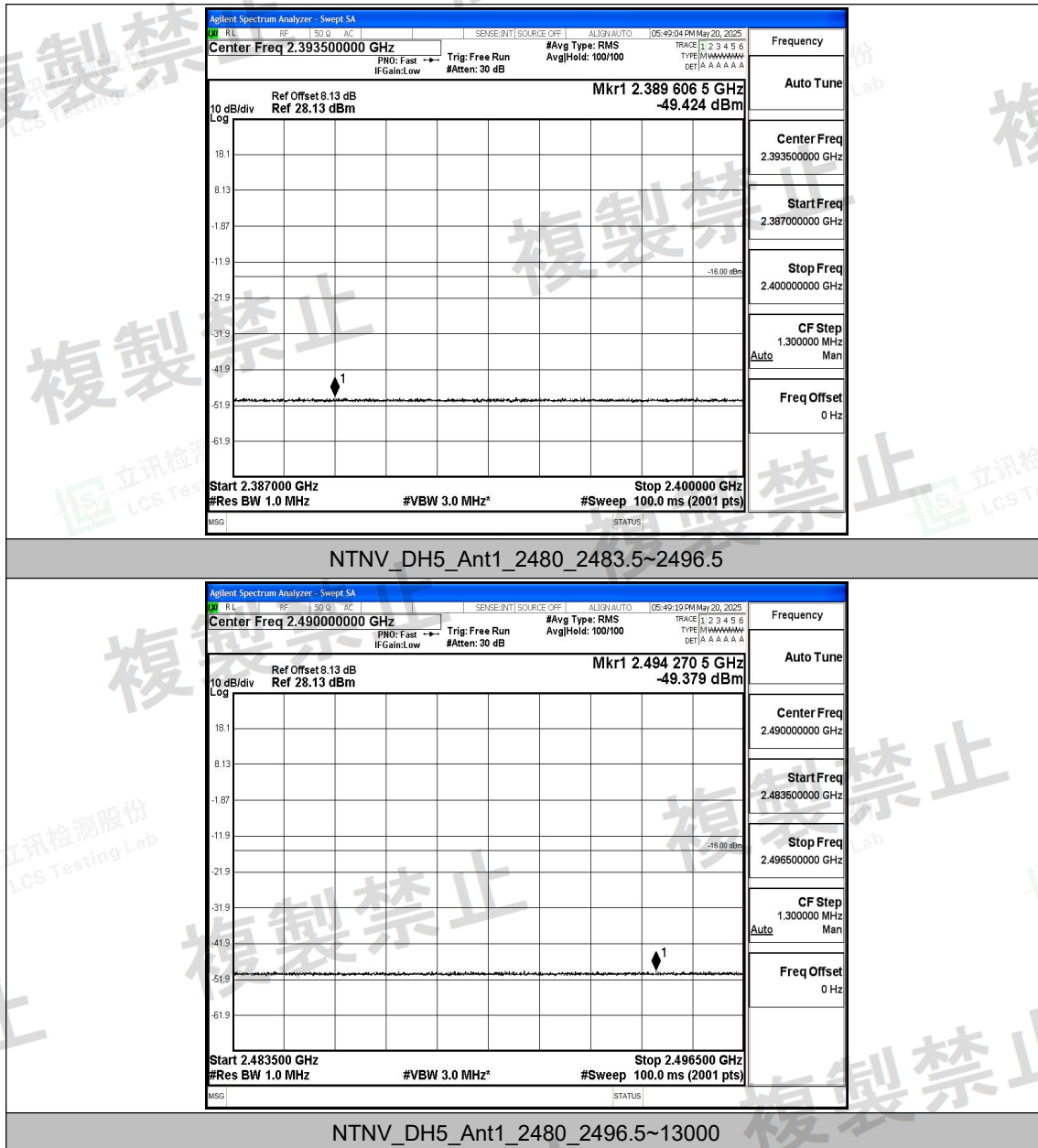
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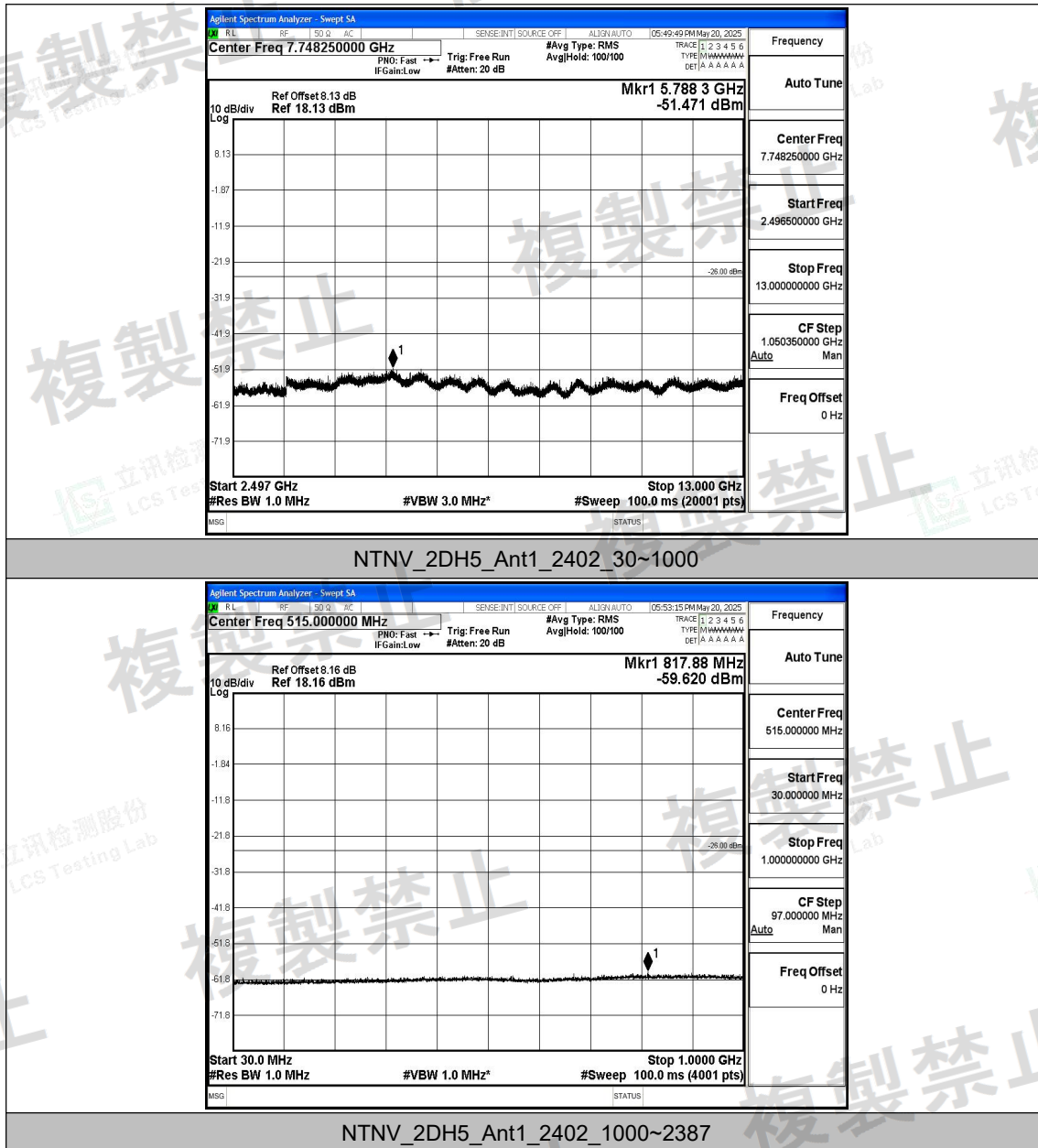




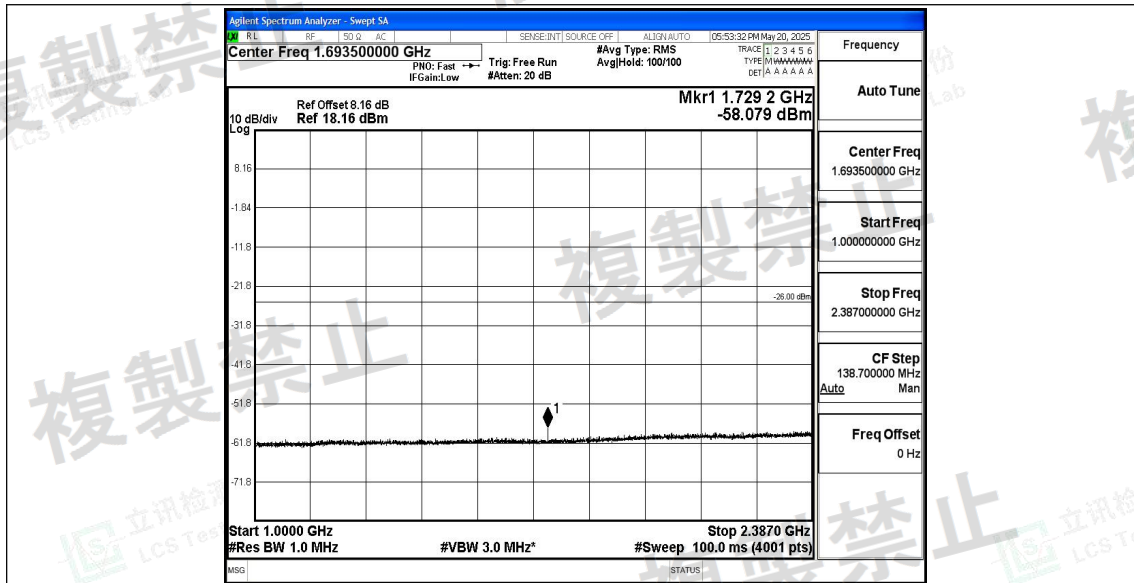
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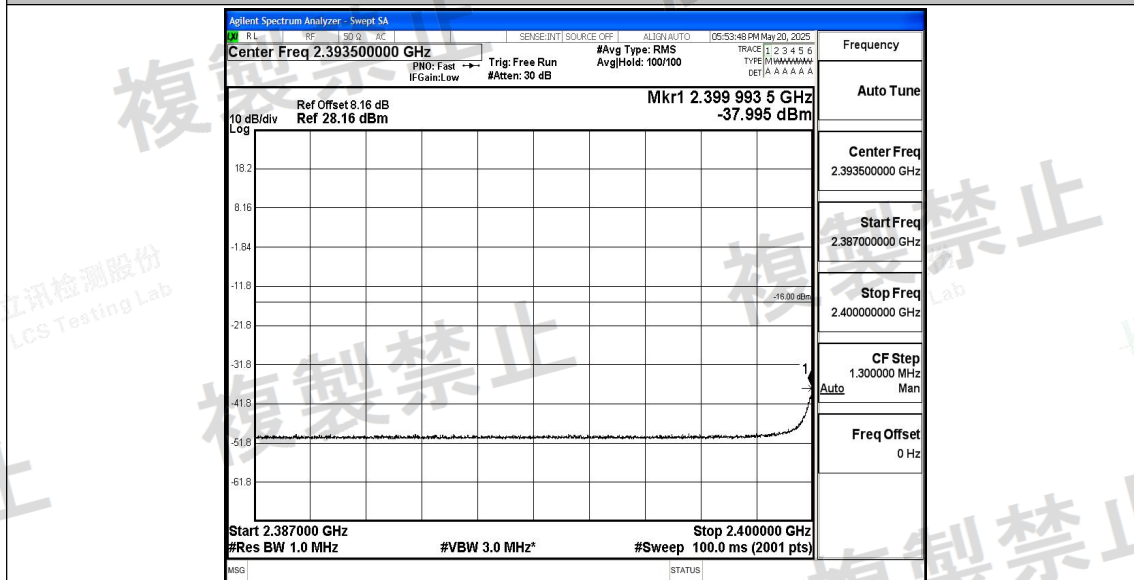




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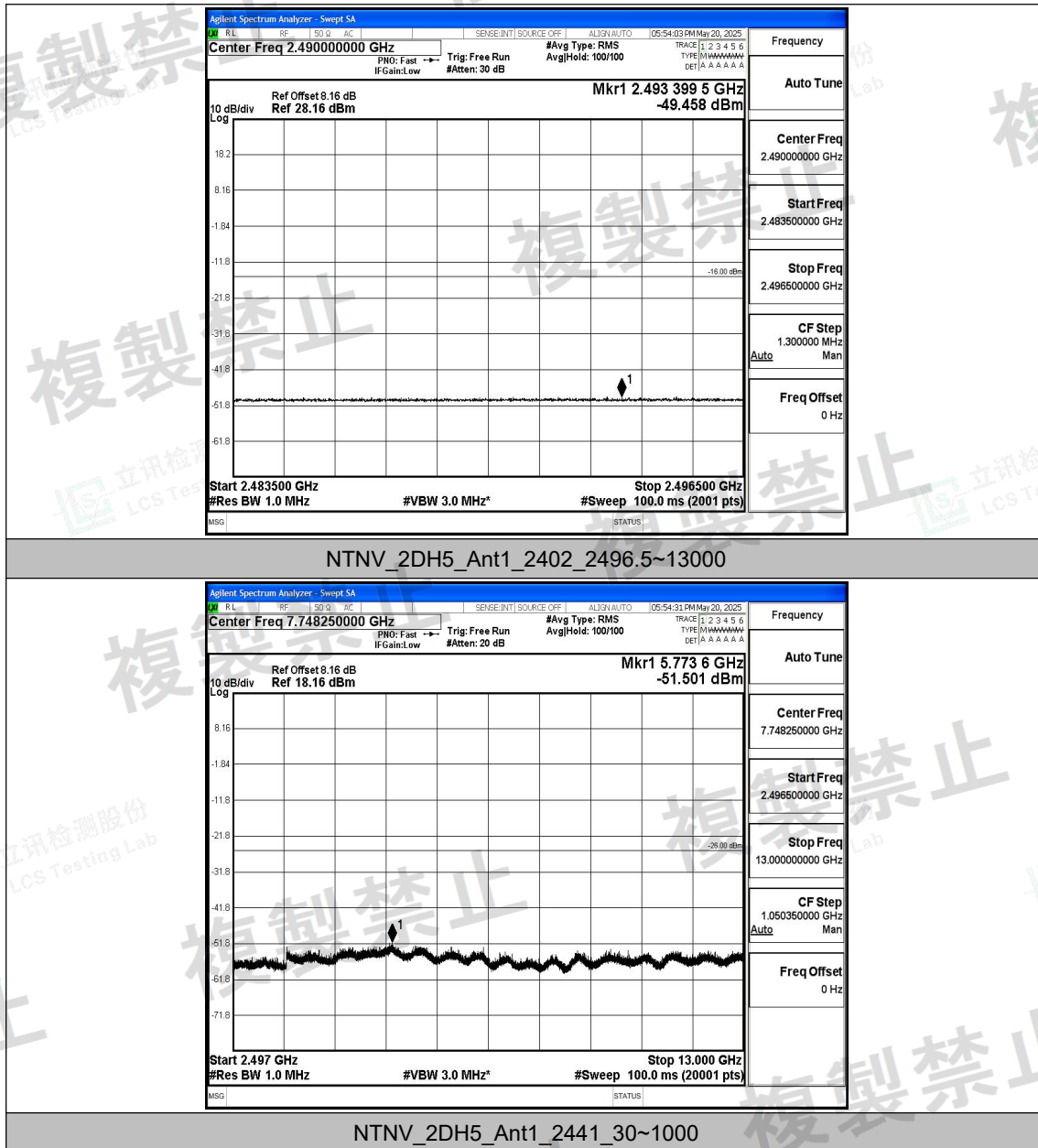
NTNV_2DH5_Ant1_2402_2387~2400

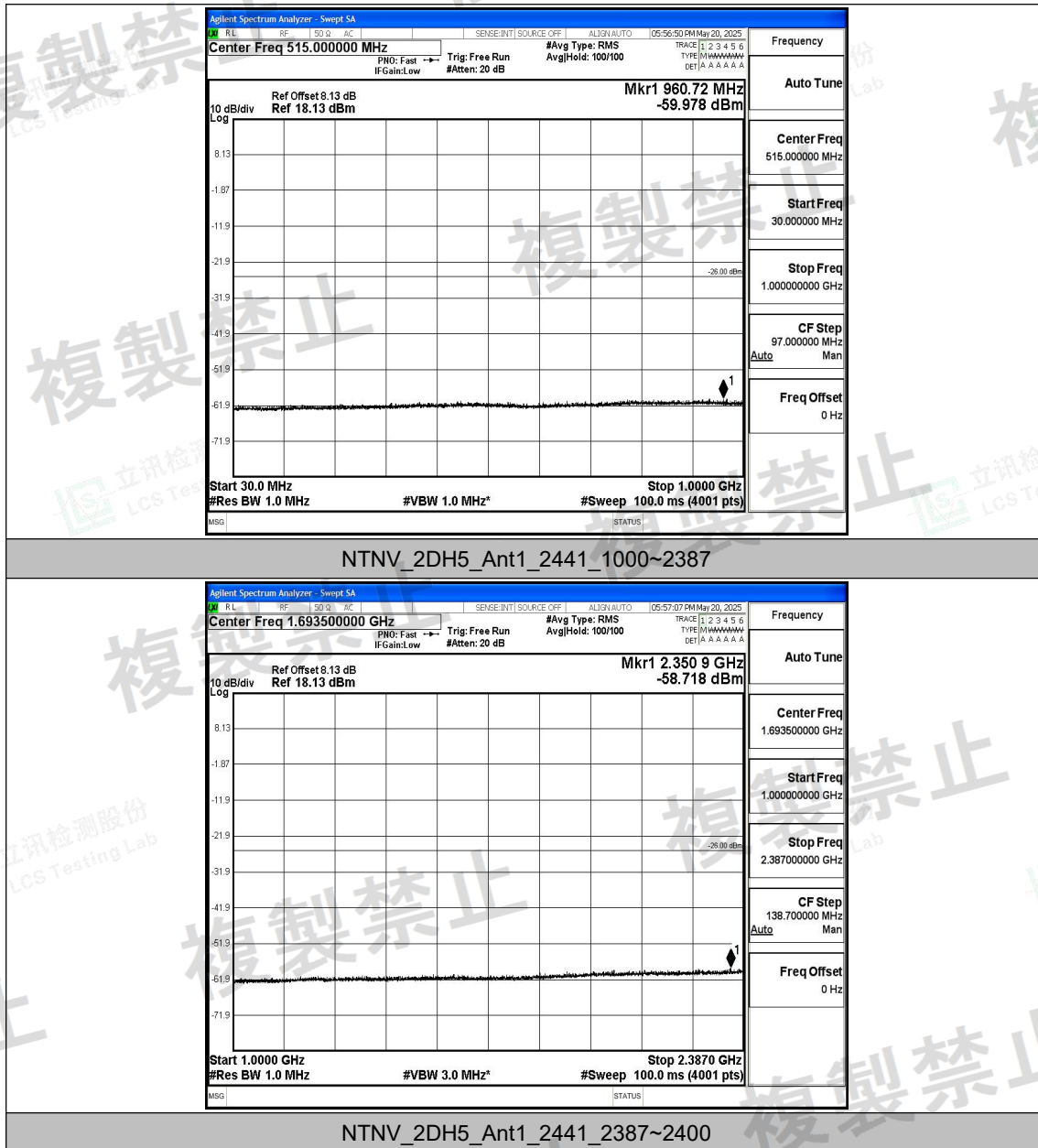


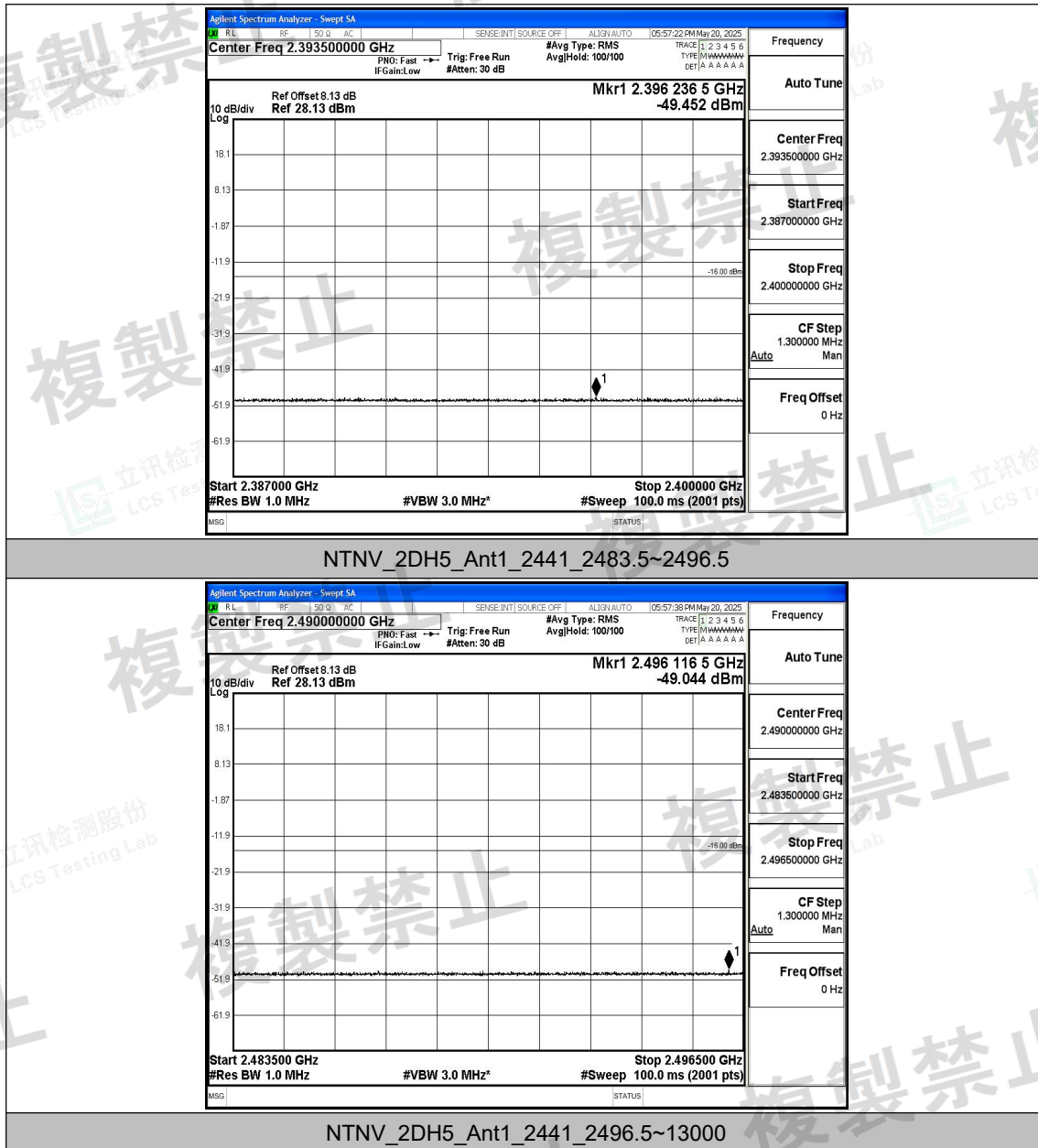
NTNV_2DH5_Ant1_2402_2483.5~2496.5

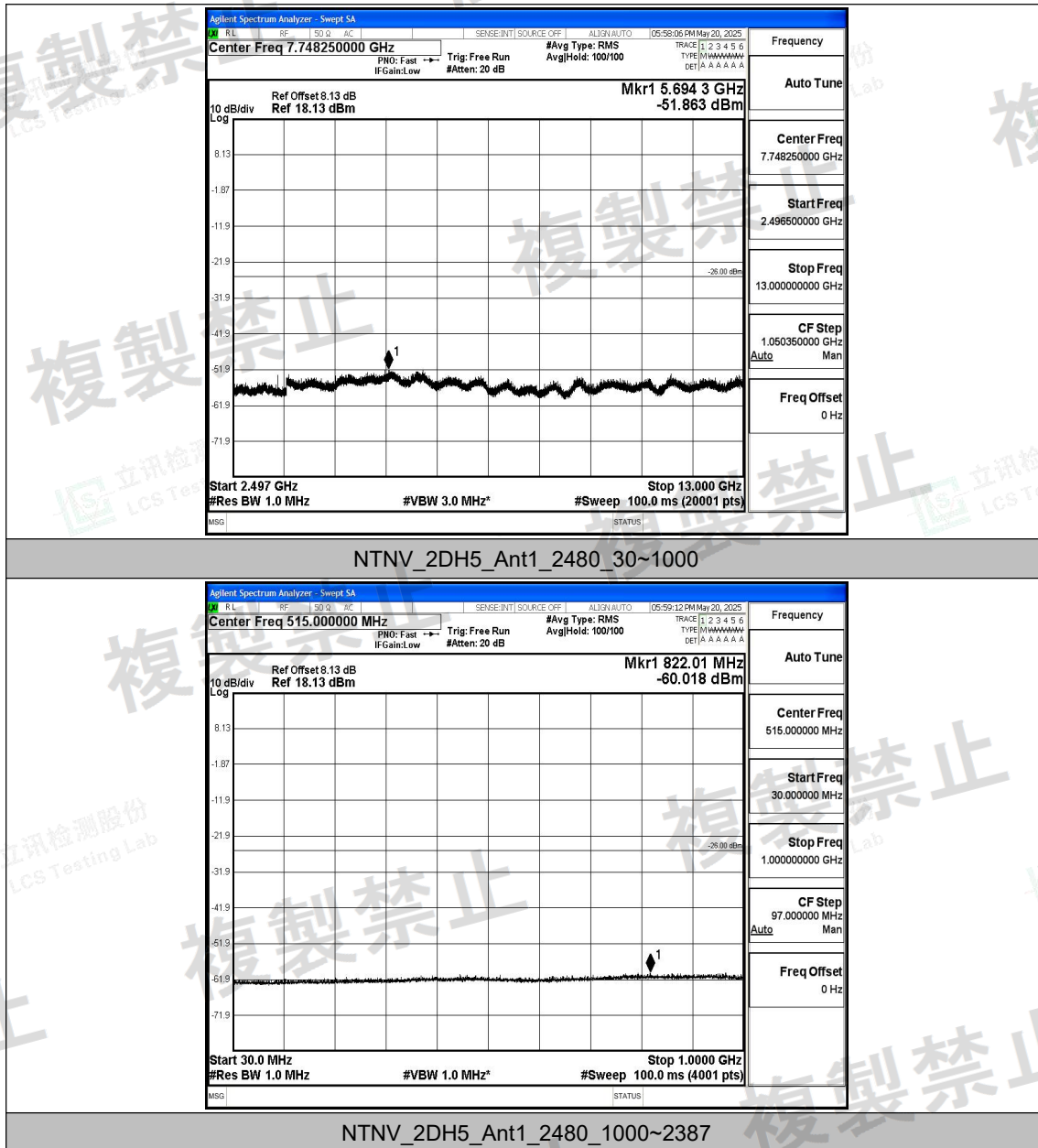


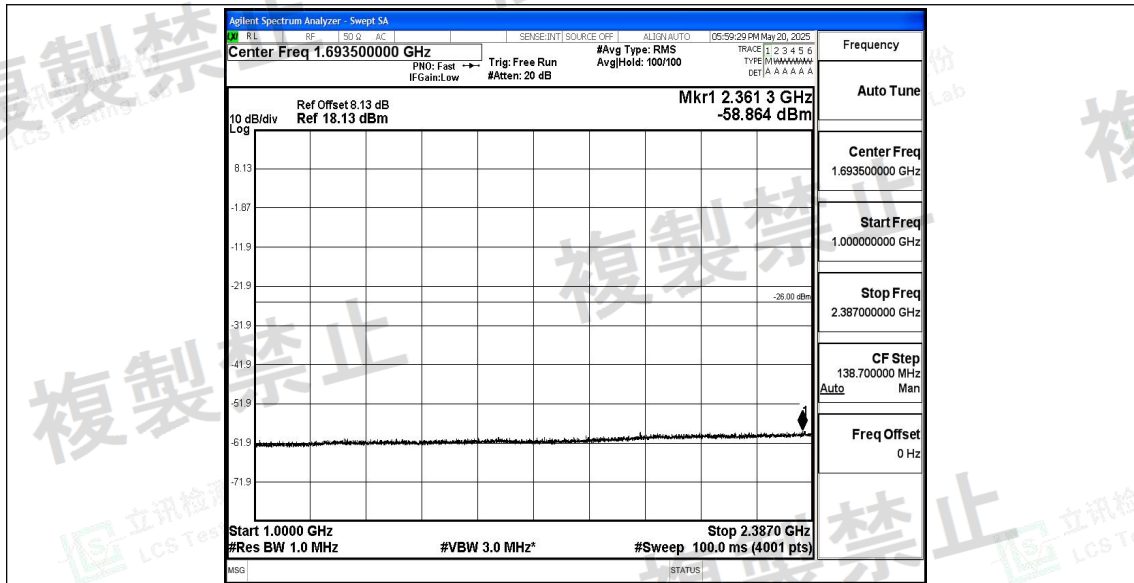
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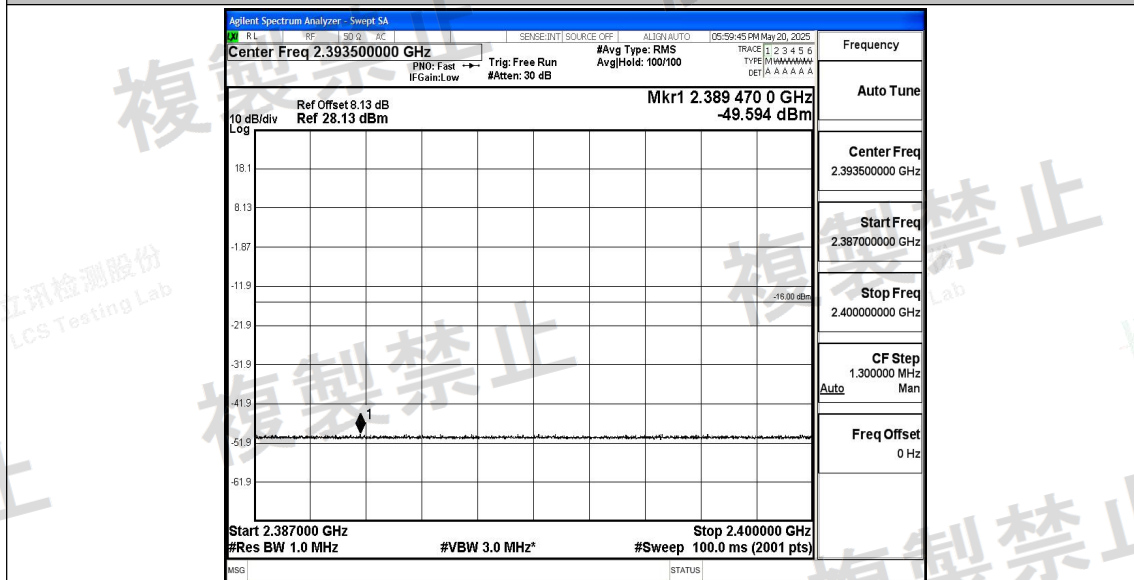








NTNV_2DH5_Ant1_2480_2387~2400



NTNV_2DH5_Ant1_2480_2483.5~2496.5

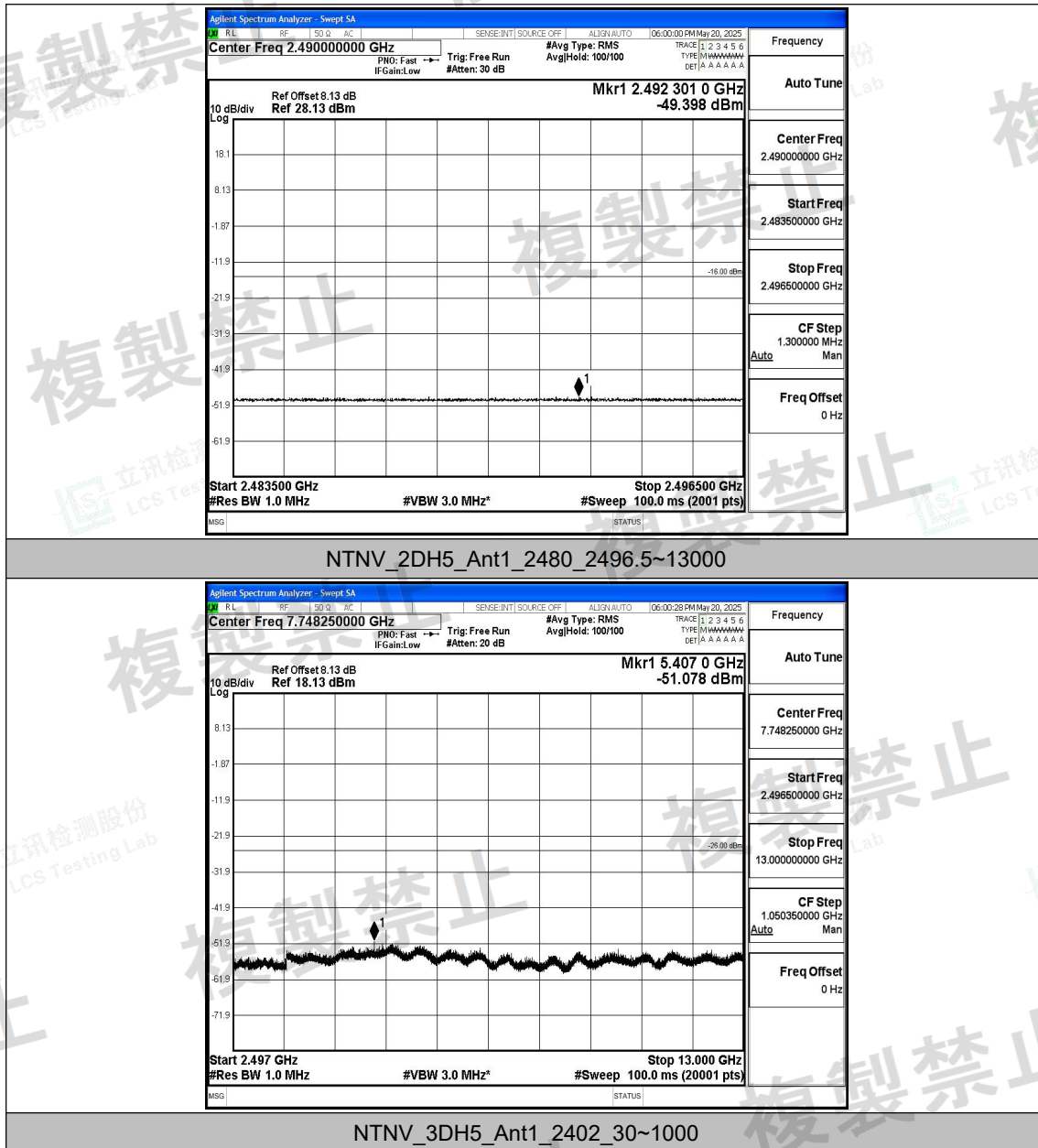


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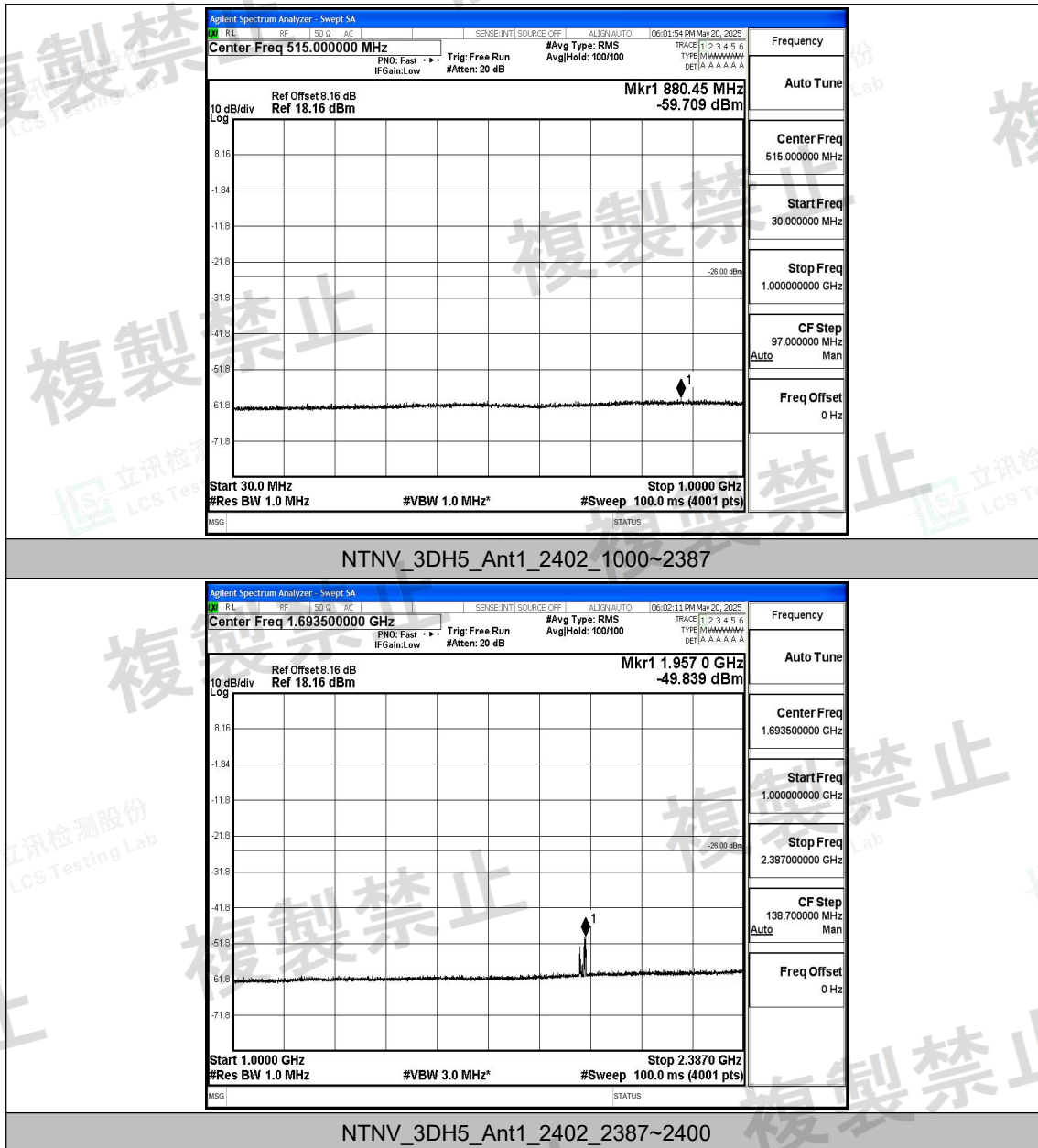
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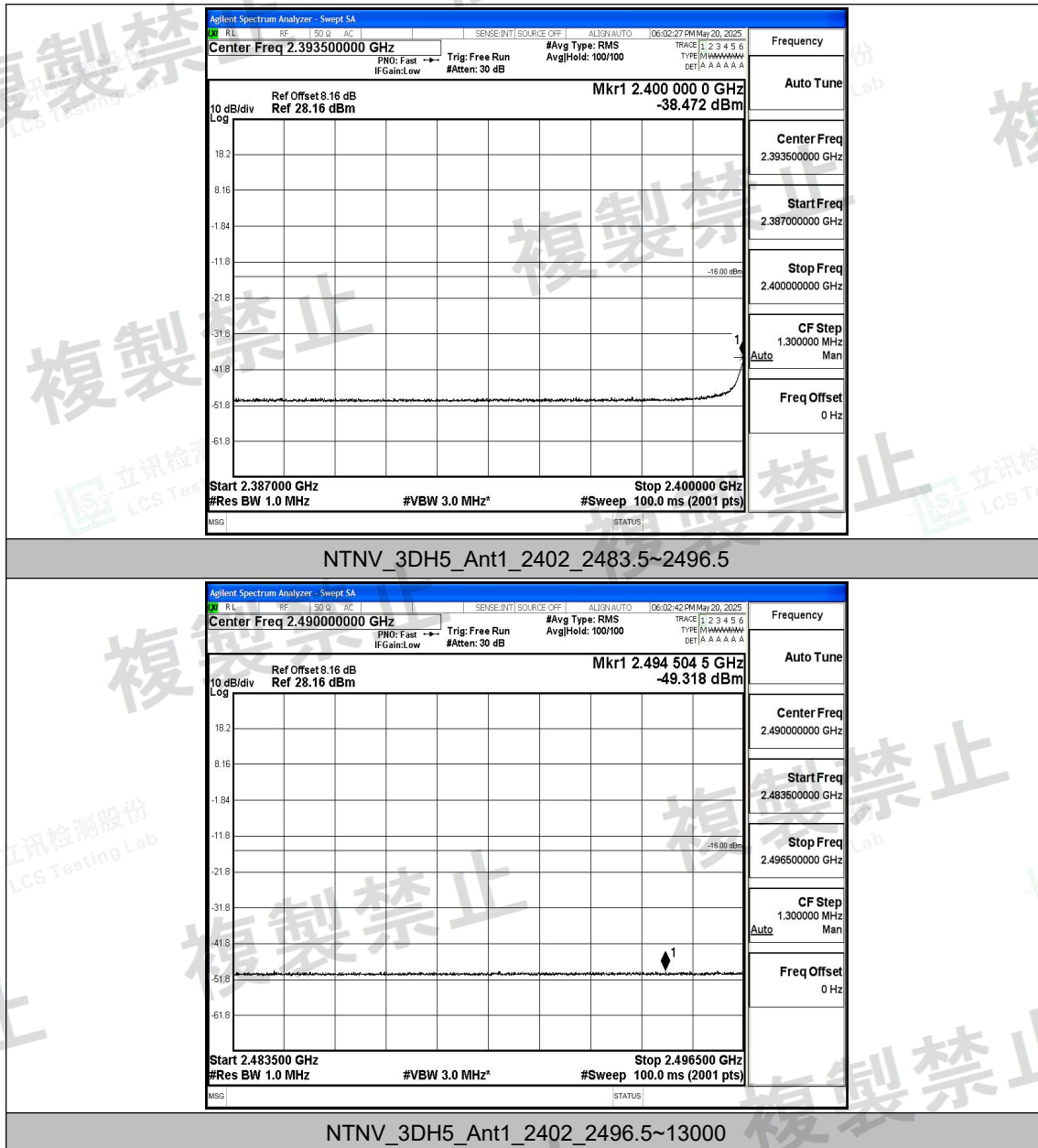
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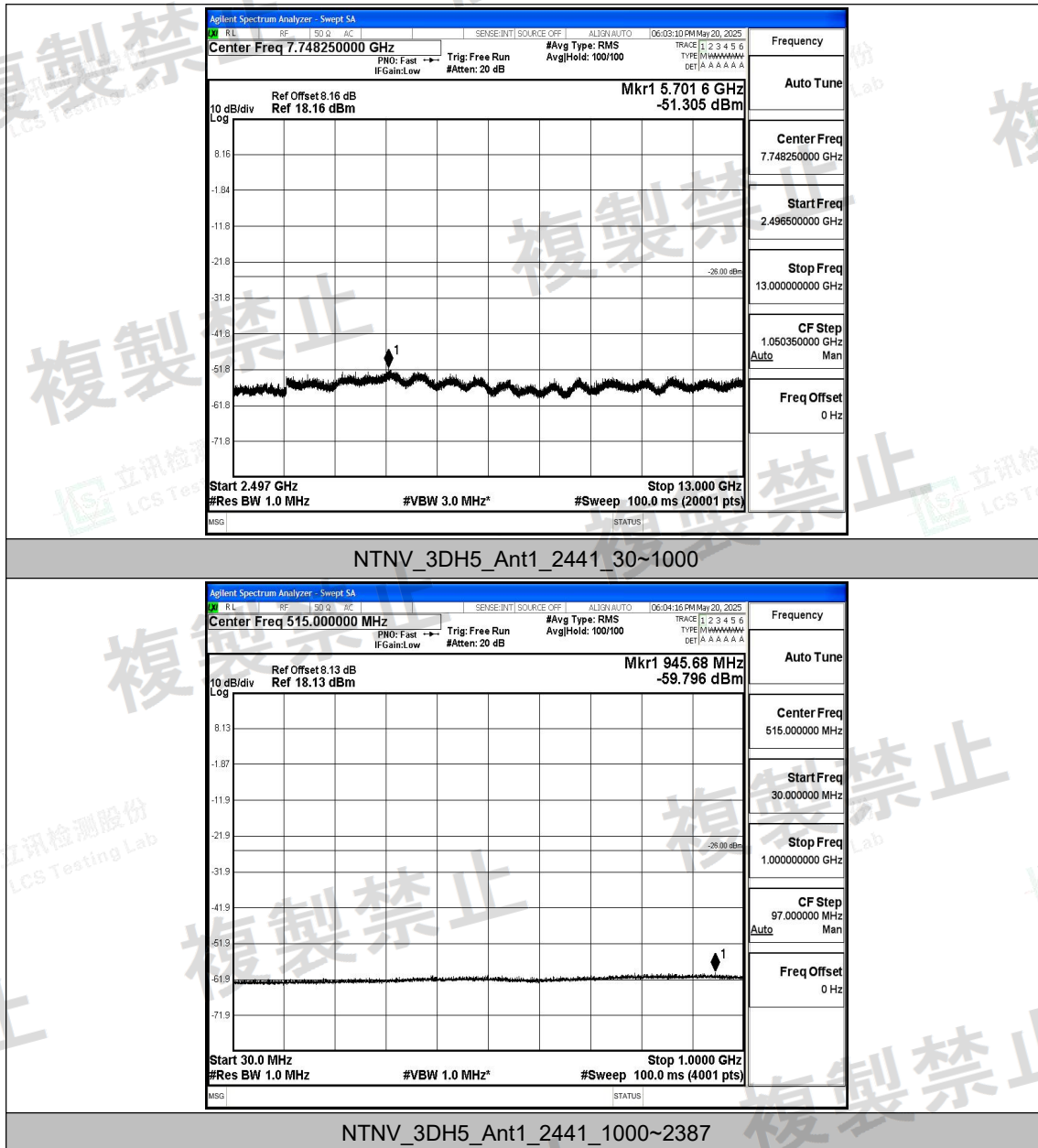
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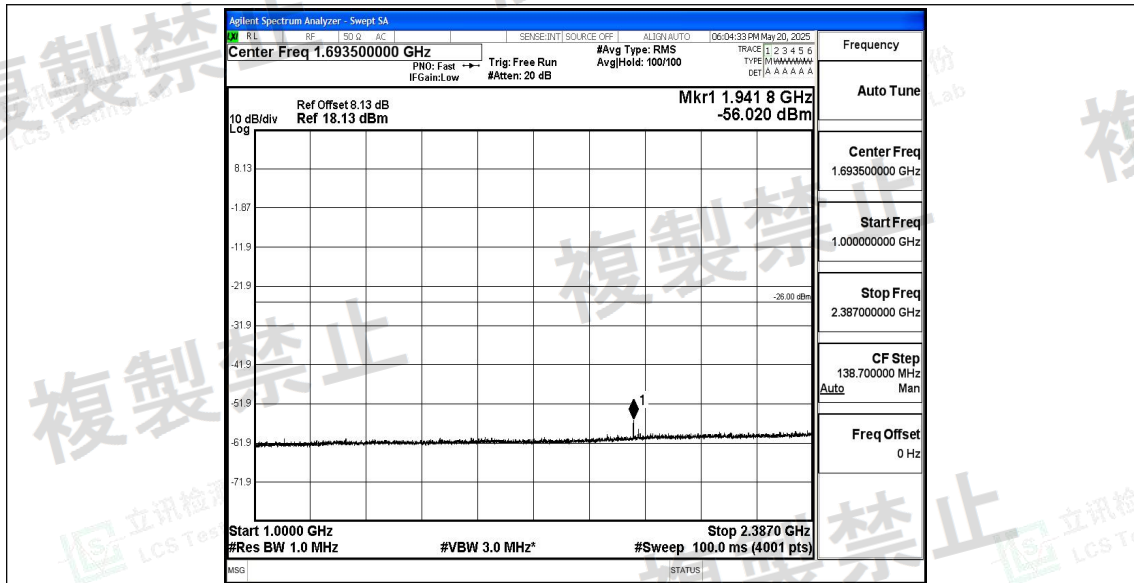


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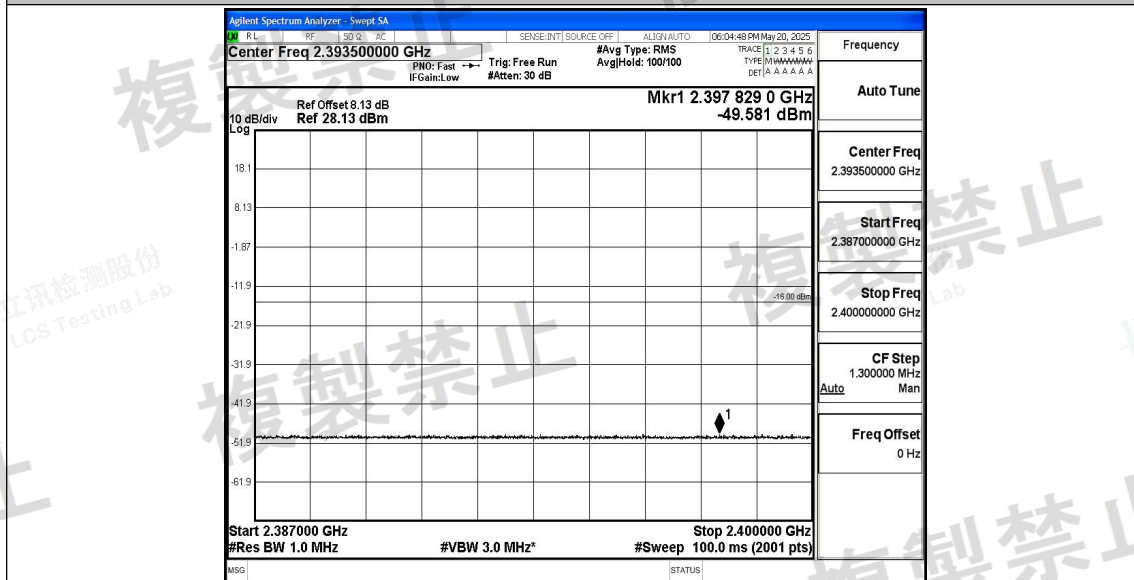








NTNV_3DH5_Ant1_2441_2387~2400



NTNV_3DH5_Ant1_2441_2483.5~2496.5

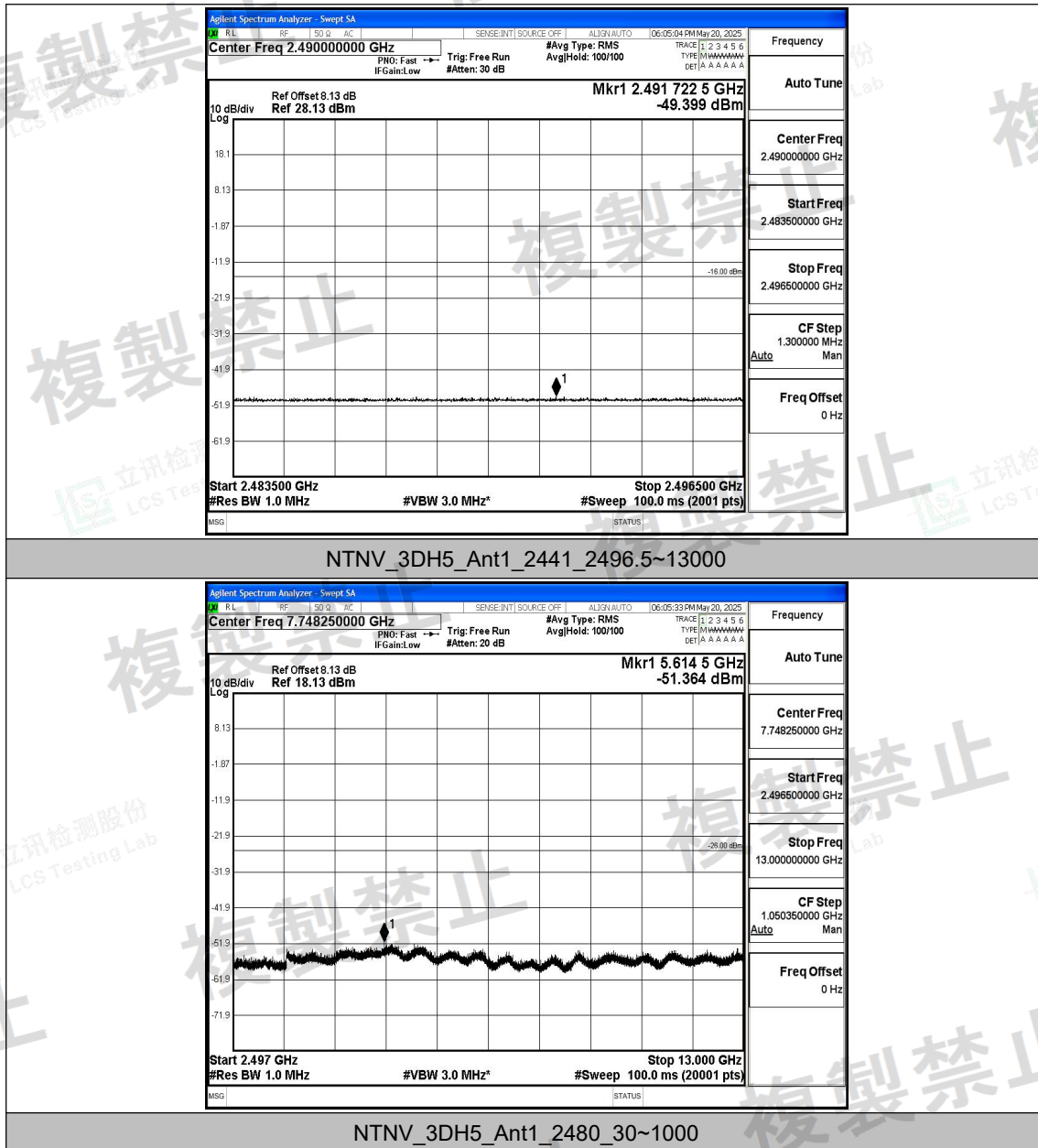


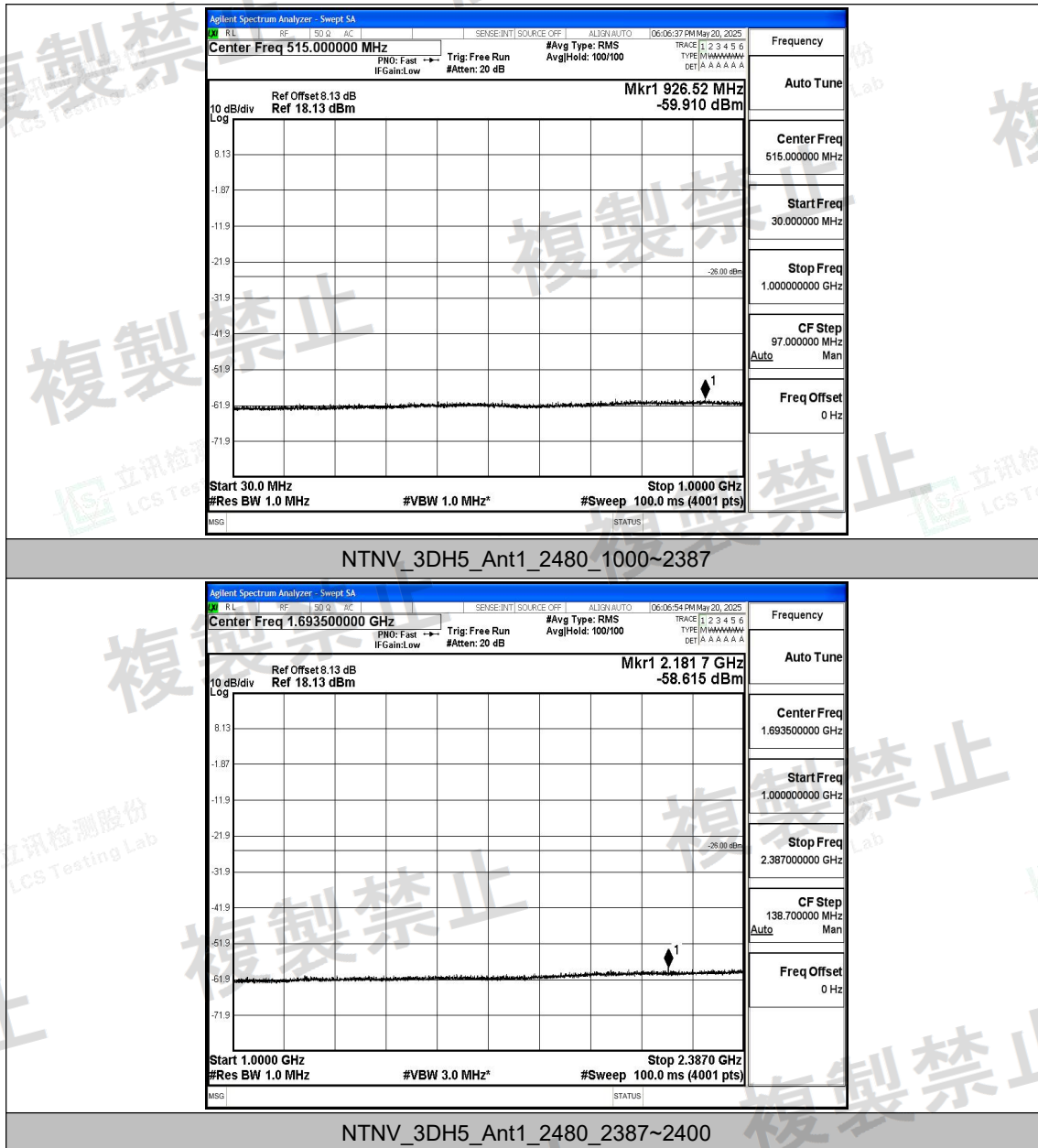
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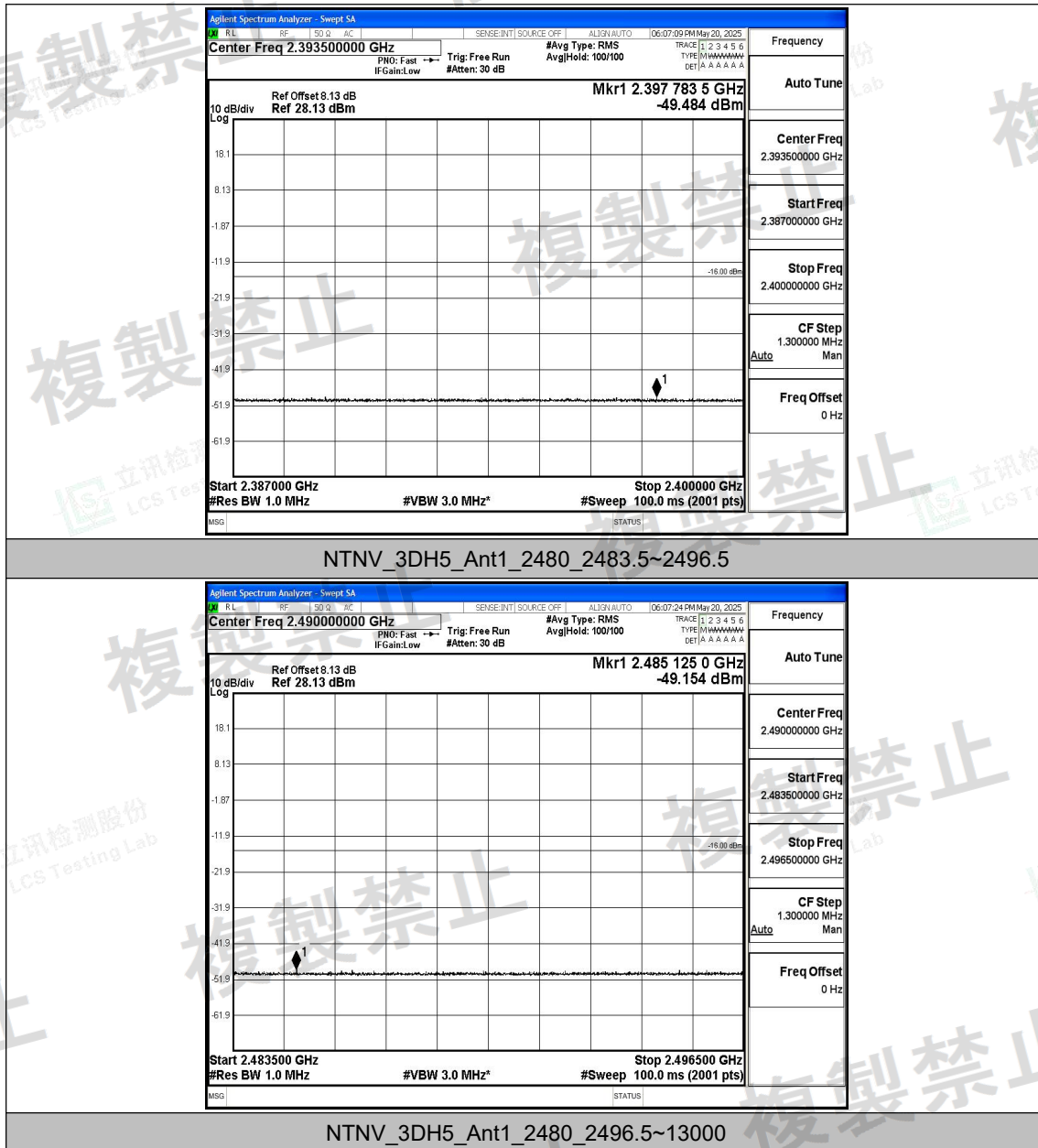
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street,
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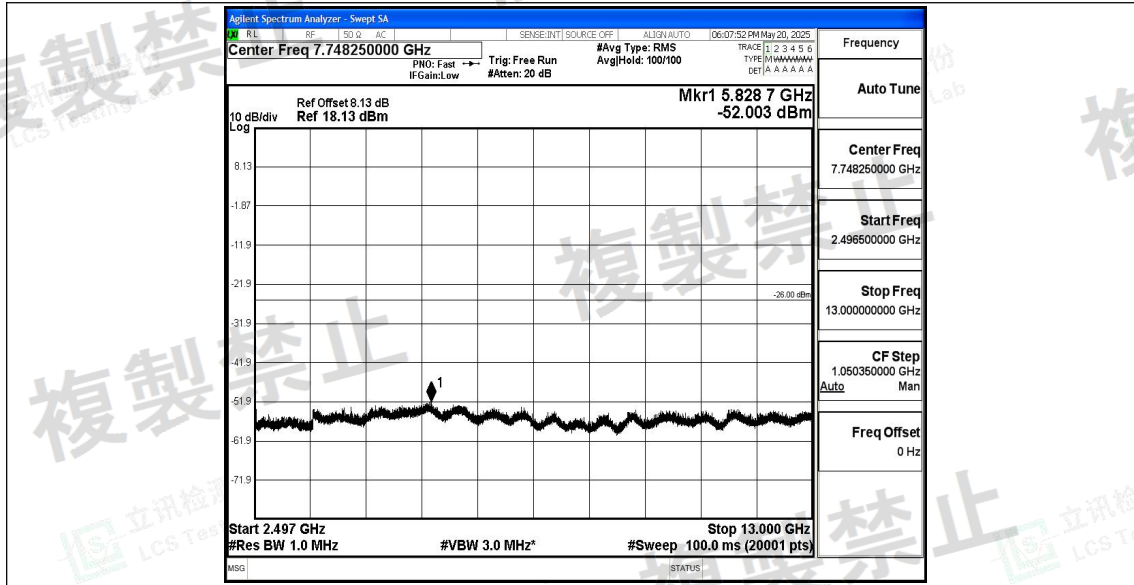
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TestCondition	TestMode	Antenna	Channel	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTLV	DH5	Ant1	2402	30~1000	-59.91	≤-26	0.00102	≤2.5	PASS
				1000~2387	-58.57	≤-26	0.00139	≤2.5	PASS
				2387~2400	-46.55	≤-16	0.02213	≤25	PASS
				2483.5~2496.5	-49.23	≤-16	0.01194	≤25	PASS
				2496.5~13000	-51.53	≤-26	0.00703	≤2.5	PASS
			2441	30~1000	-54.43	≤-26	0.00361	≤2.5	PASS
				1000~2387	-58.80	≤-26	0.00132	≤2.5	PASS
				2387~2400	-49.55	≤-16	0.01109	≤25	PASS
				2483.5~2496.5	-49.14	≤-16	0.01219	≤25	PASS
				2496.5~13000	-51.67	≤-26	0.00681	≤2.5	PASS
	2DH5	Ant1	2480	30~1000	-60.16	≤-26	0.00096	≤2.5	PASS
				1000~2387	-58.93	≤-26	0.00128	≤2.5	PASS
				2387~2400	-49.33	≤-16	0.01167	≤25	PASS
				2483.5~2496.5	-49.38	≤-16	0.01153	≤25	PASS
				2496.5~13000	-51.70	≤-26	0.00676	≤2.5	PASS
			2402	30~1000	-60.10	≤-26	0.00098	≤2.5	PASS
				1000~2387	-51.37	≤-26	0.00729	≤2.5	PASS
				2387~2400	-37.92	≤-16	0.16144	≤25	PASS
				2483.5~2496.5	-49.44	≤-16	0.01138	≤25	PASS
				2496.5~13000	-51.73	≤-26	0.00671	≤2.5	PASS
			2441	30~1000	-60.13	≤-26	0.00097	≤2.5	PASS
				1000~2387	-58.18	≤-26	0.00152	≤2.5	PASS
				2387~2400	-49.53	≤-16	0.01114	≤25	PASS
				2483.5~2496.5	-49.37	≤-16	0.01156	≤25	PASS



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			2480	2496.5~13000	-51.76	≤-26	0.00667	≤2.5	PASS
				30~1000	-59.77	≤-26	0.00105	≤2.5	PASS
				1000~2387	-58.79	≤-26	0.00132	≤2.5	PASS
				2387~2400	-49.65	≤-16	0.01084	≤25	PASS
				2483.5~2496.5	-49.45	≤-16	0.01135	≤25	PASS
				2496.5~13000	-46.44	≤-26	0.02270	≤2.5	PASS
			2402	30~1000	-59.81	≤-26	0.00104	≤2.5	PASS
				1000~2387	-58.93	≤-26	0.00128	≤2.5	PASS
				2387~2400	-38.37	≤-16	0.14555	≤25	PASS
				2483.5~2496.5	-49.51	≤-16	0.01119	≤25	PASS
				2496.5~13000	-51.01	≤-26	0.00793	≤2.5	PASS
	3DH5	Ant1	2441	30~1000	-60.19	≤-26	0.00096	≤2.5	PASS
				1000~2387	-58.85	≤-26	0.00130	≤2.5	PASS
				2387~2400	-49.48	≤-16	0.01127	≤25	PASS
				2483.5~2496.5	-49.43	≤-16	0.01140	≤25	PASS
				2496.5~13000	-51.67	≤-26	0.00681	≤2.5	PASS
			2480	30~1000	-60.00	≤-26	0.00100	≤2.5	PASS
				1000~2387	-58.73	≤-26	0.00134	≤2.5	PASS
				2387~2400	-49.43	≤-16	0.01140	≤25	PASS
				2483.5~2496.5	-49.38	≤-16	0.01153	≤25	PASS
				2496.5~13000	-51.81	≤-26	0.00659	≤2.5	PASS



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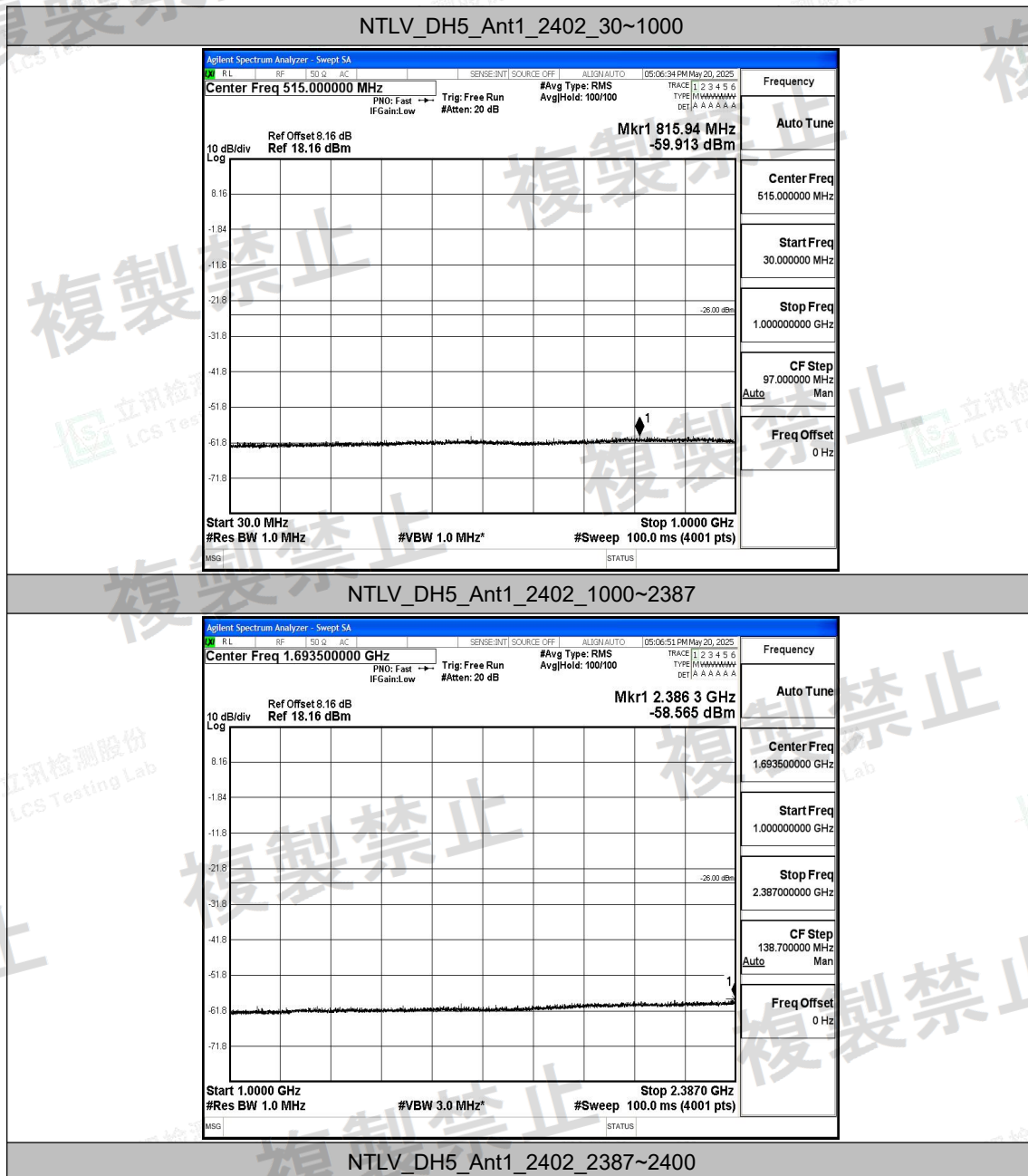
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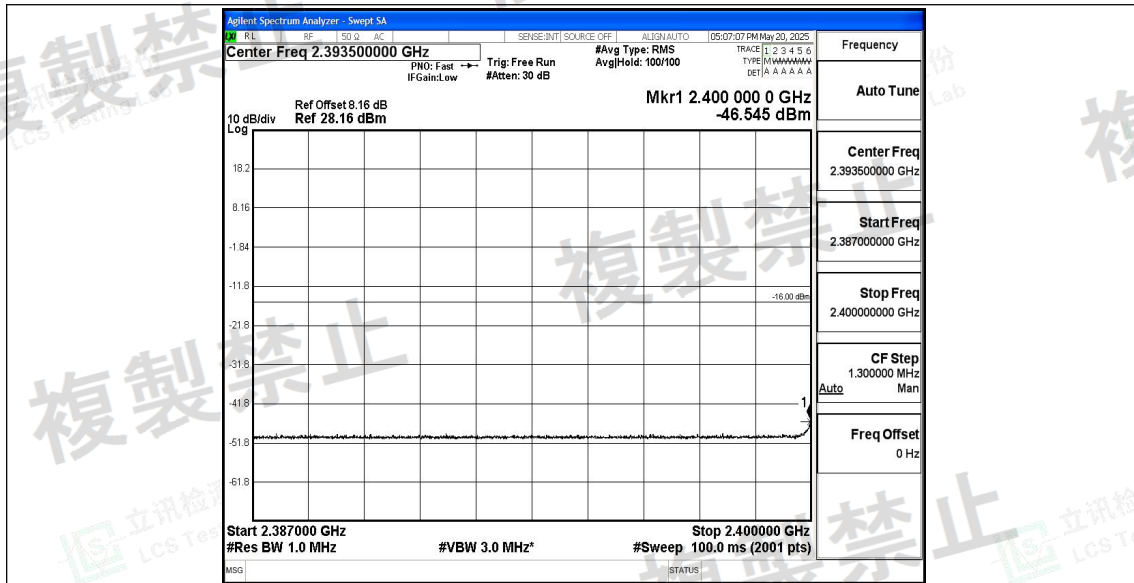
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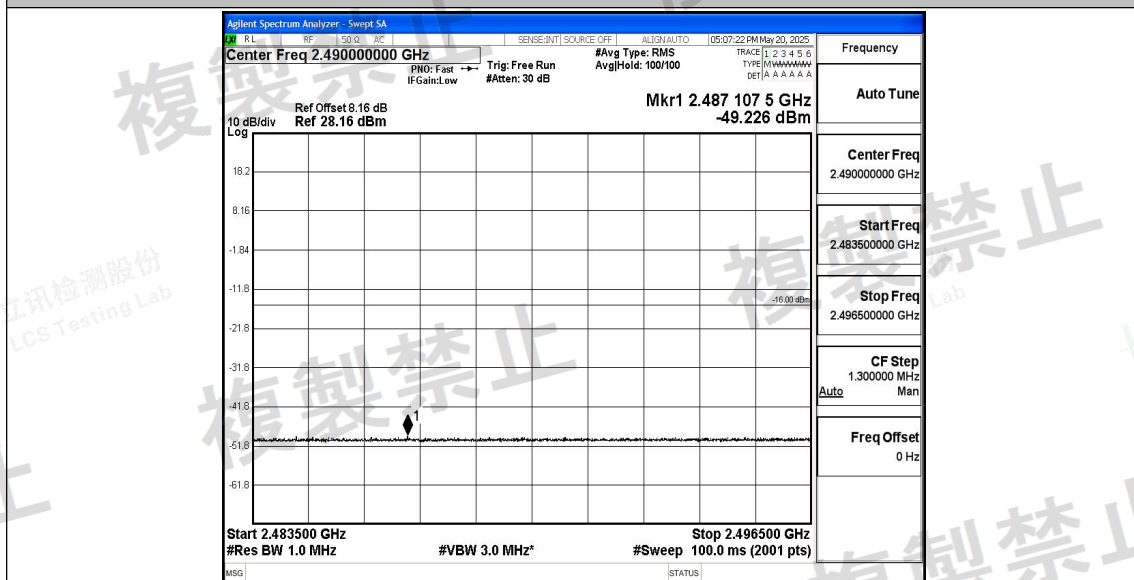


Test Graphs





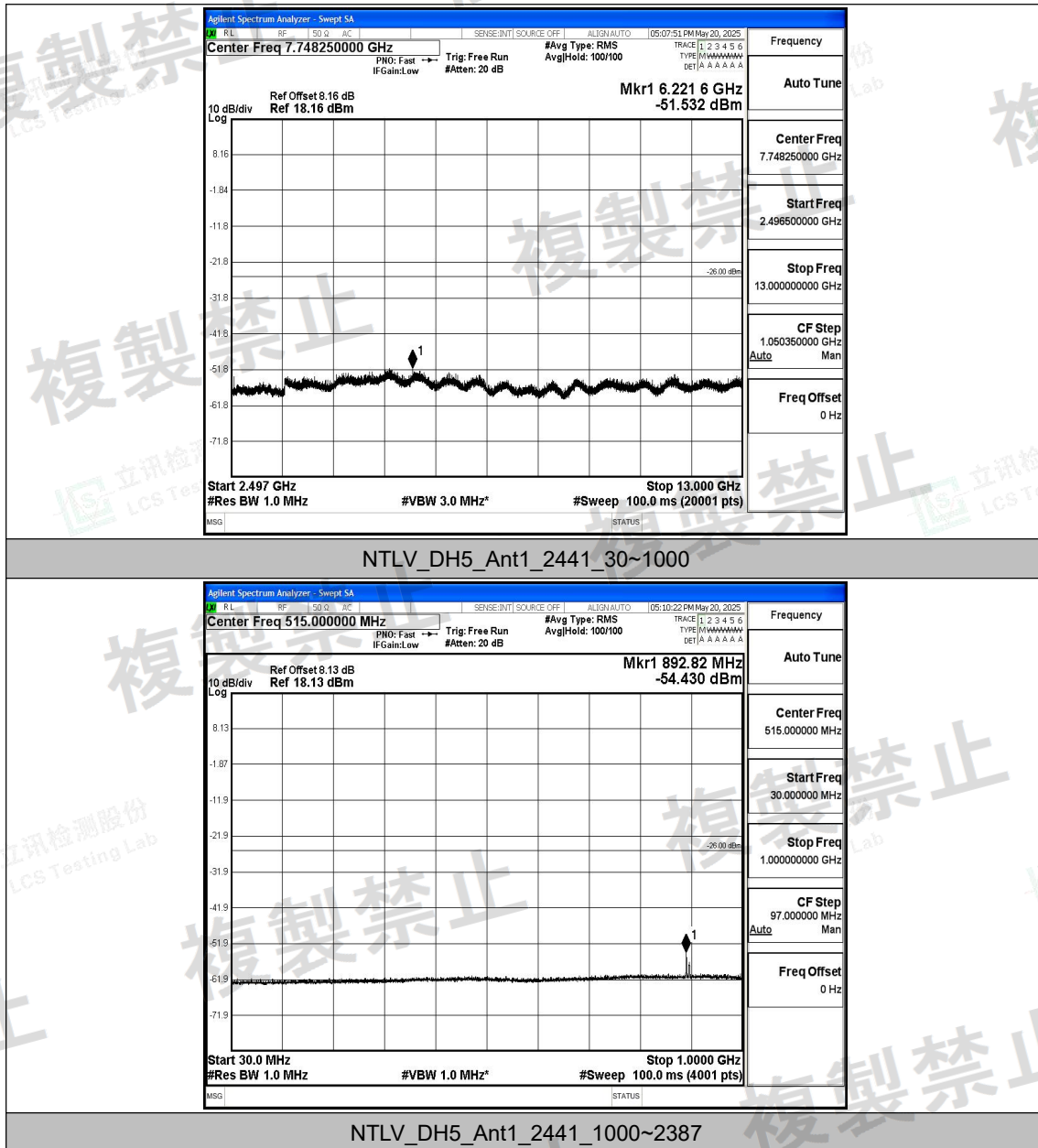
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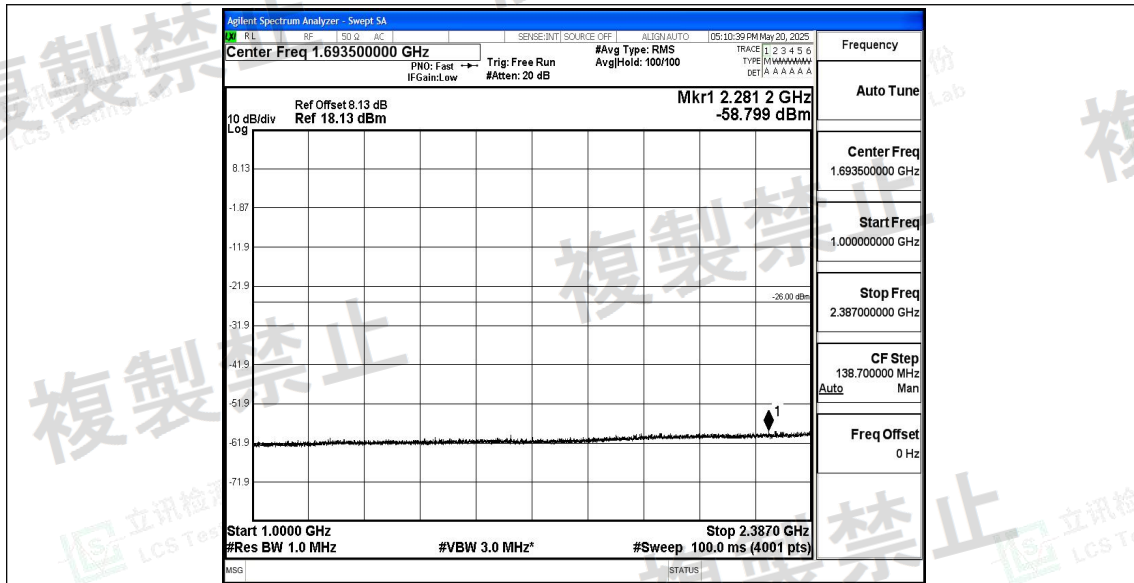


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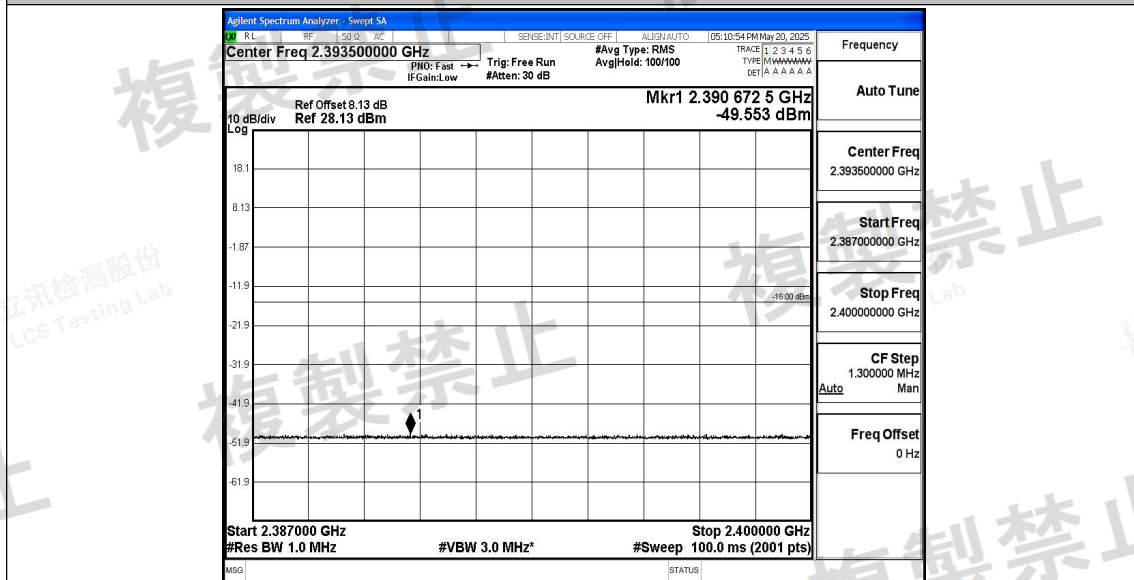


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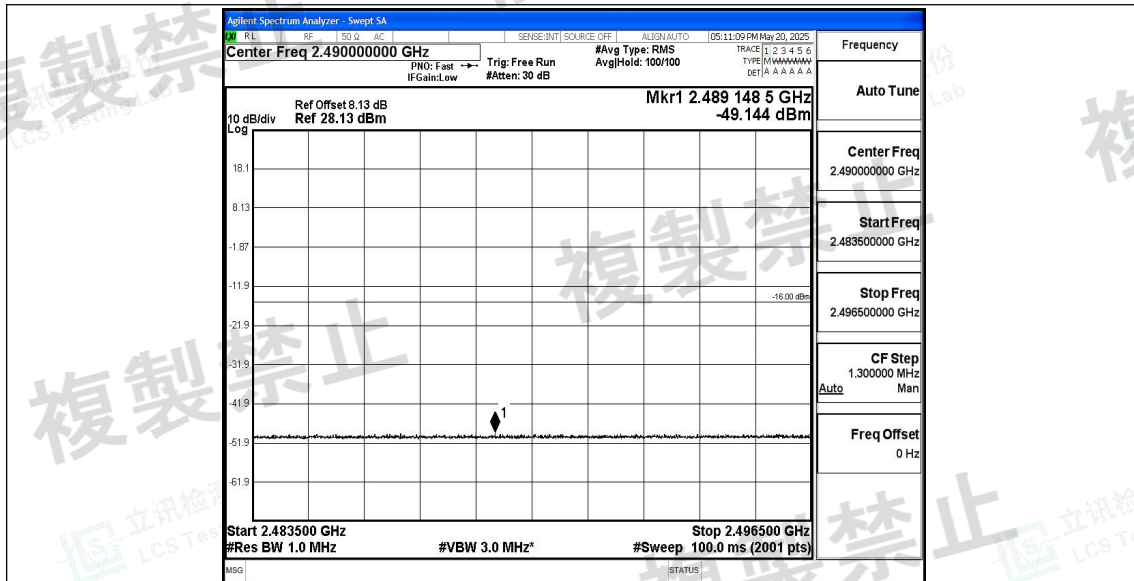
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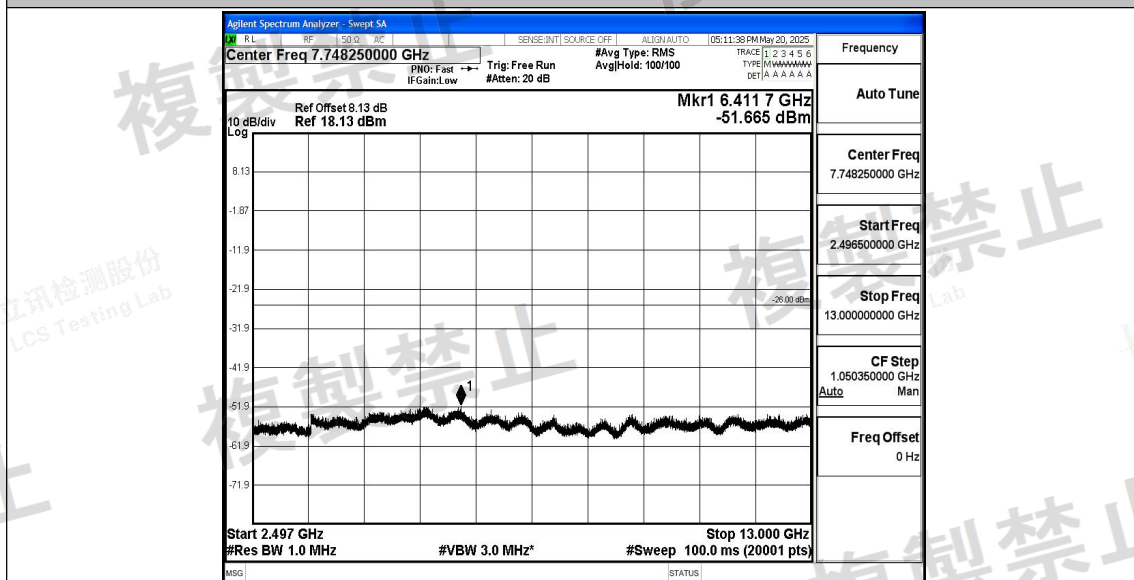
NTLV_DH5_Ant1_2441_2483.5~2496.5



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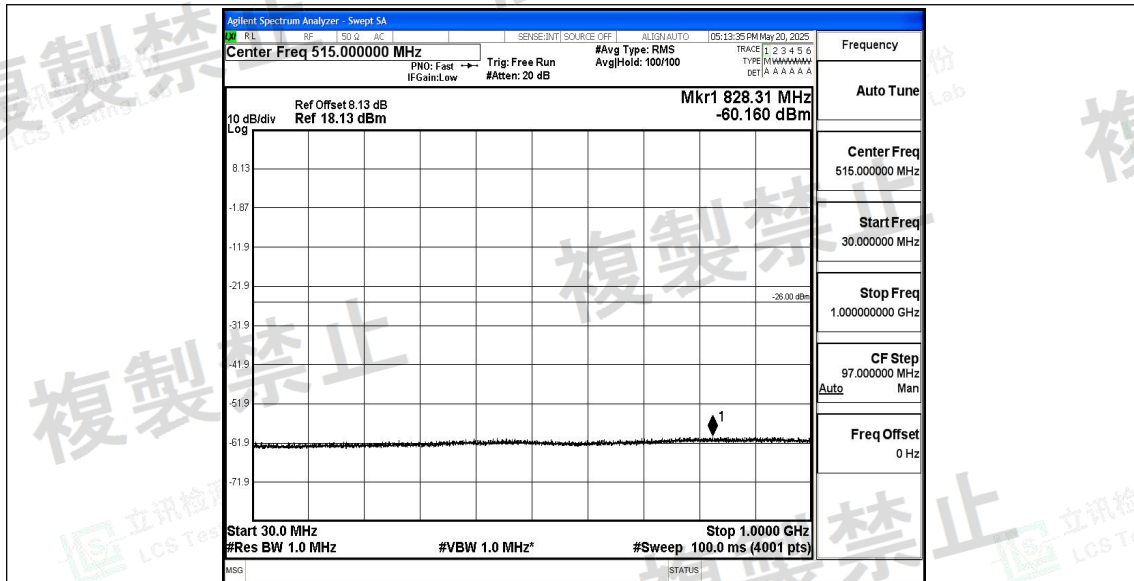
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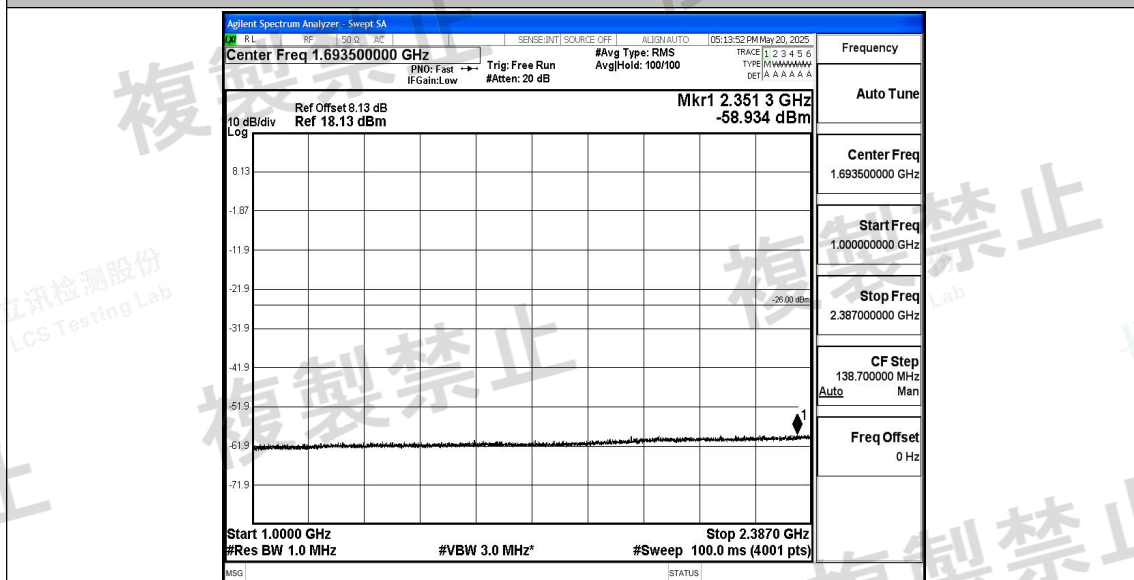
NTLV_DH5_Ant1_2480_30~1000



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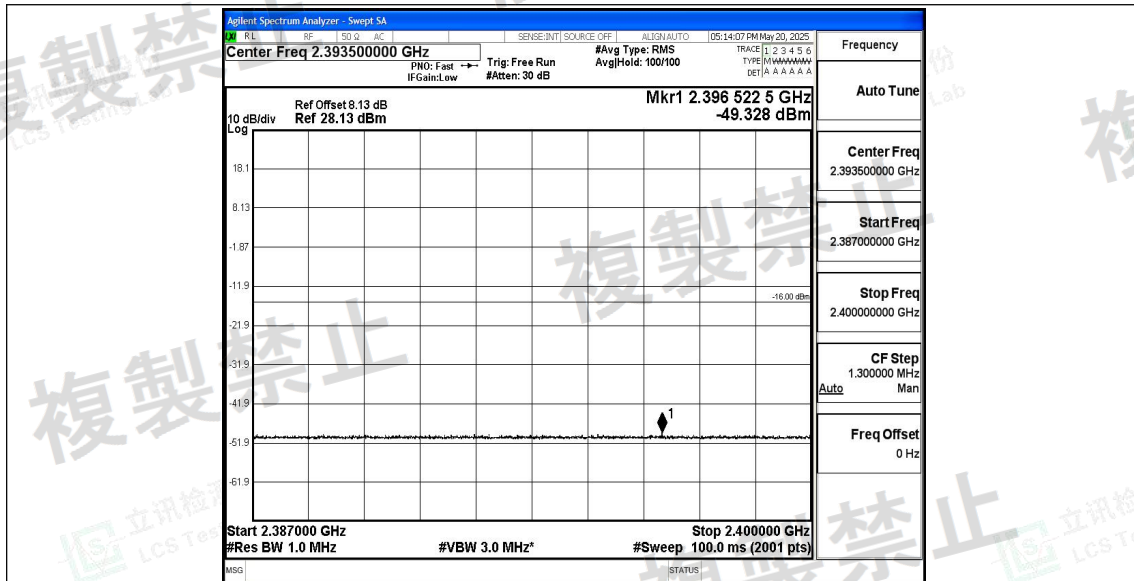
NTLV_DH5_Ant1_2480_1000~2387



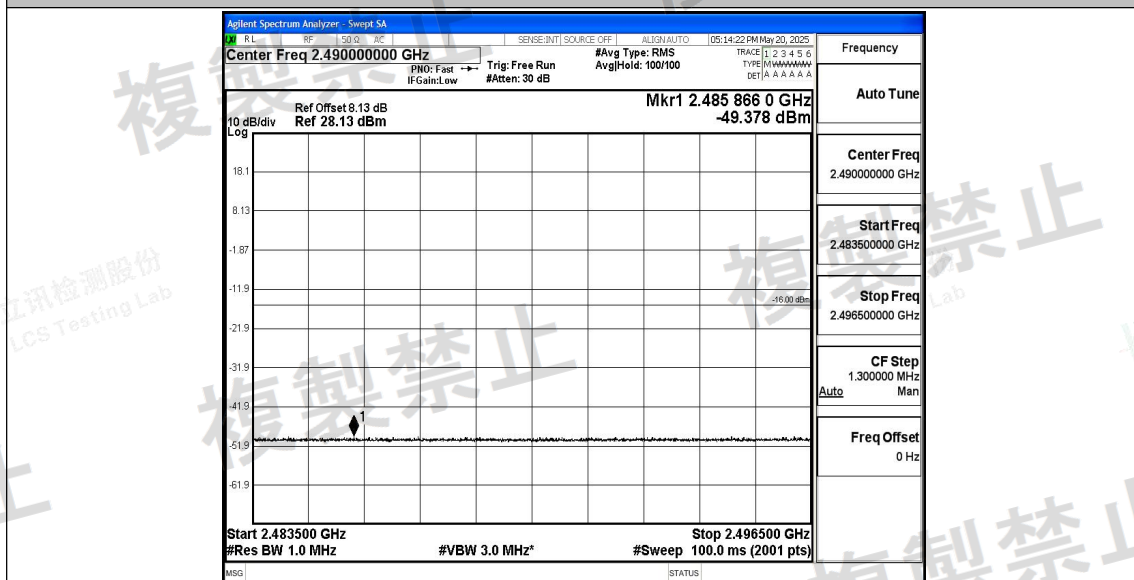
NTLV_DH5_Ant1_2480_2387~2400



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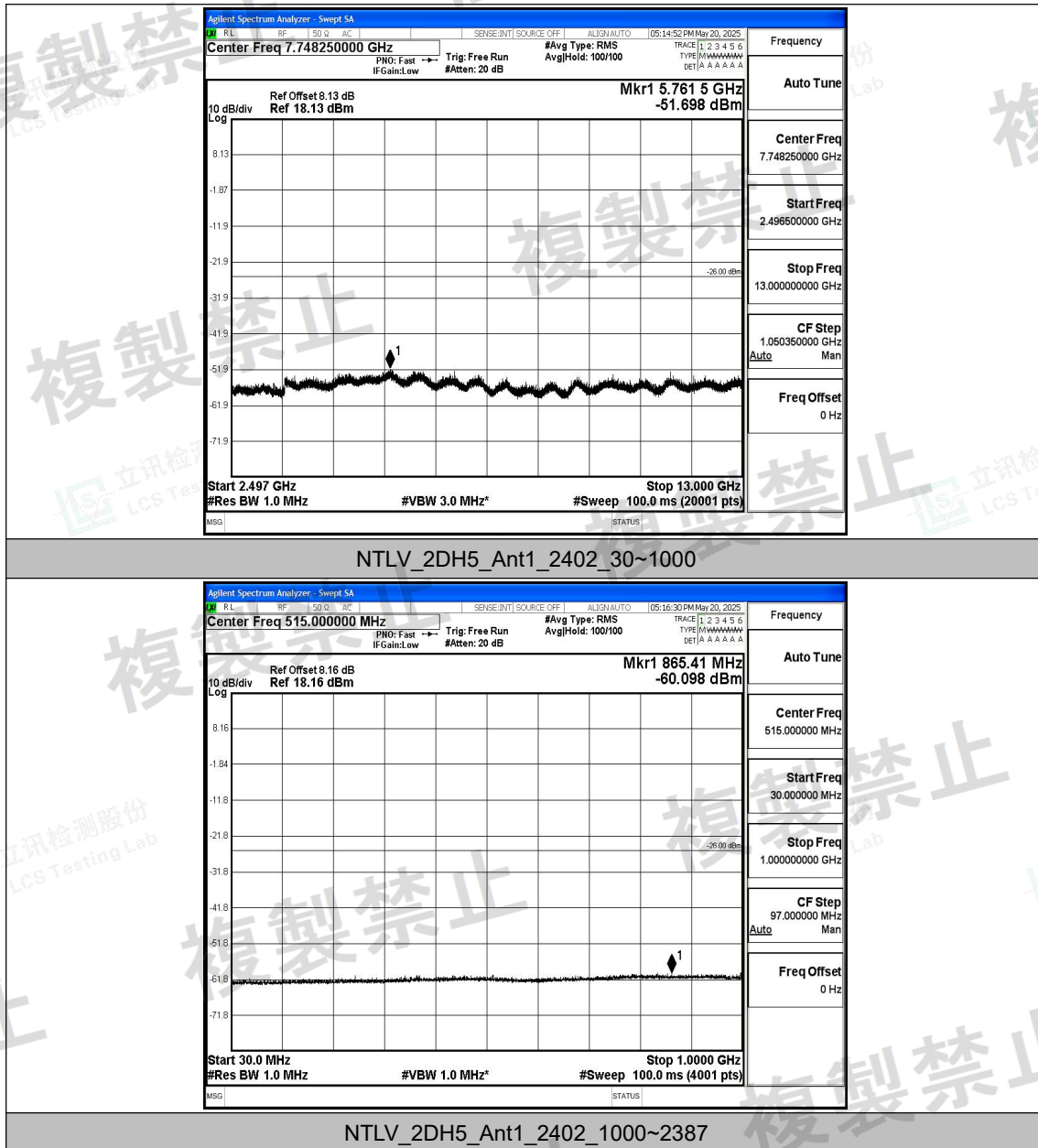
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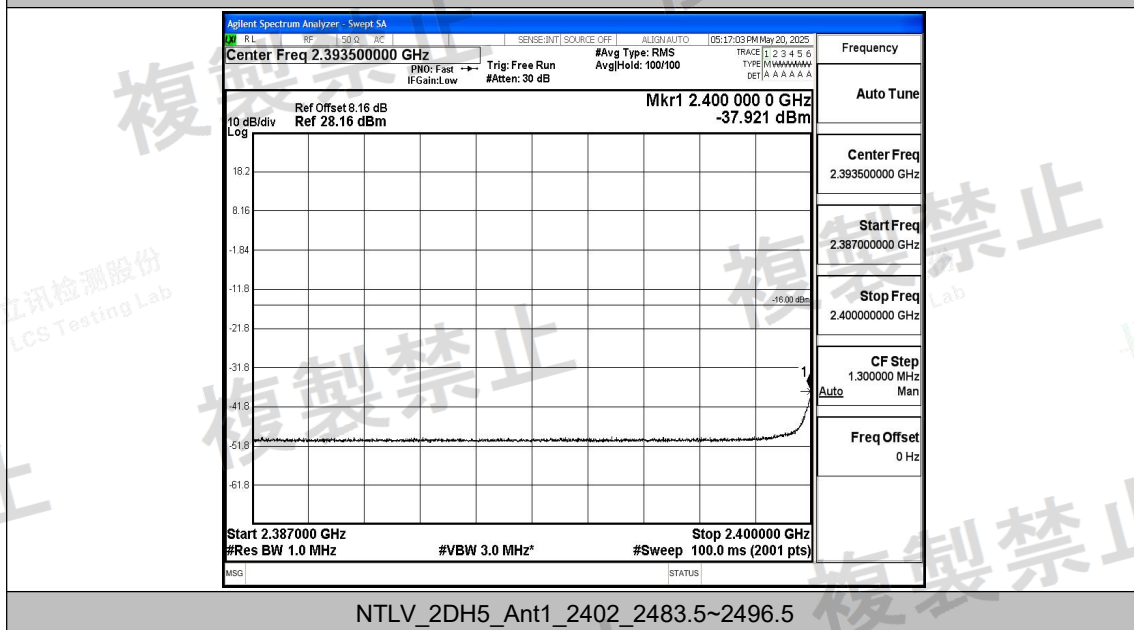
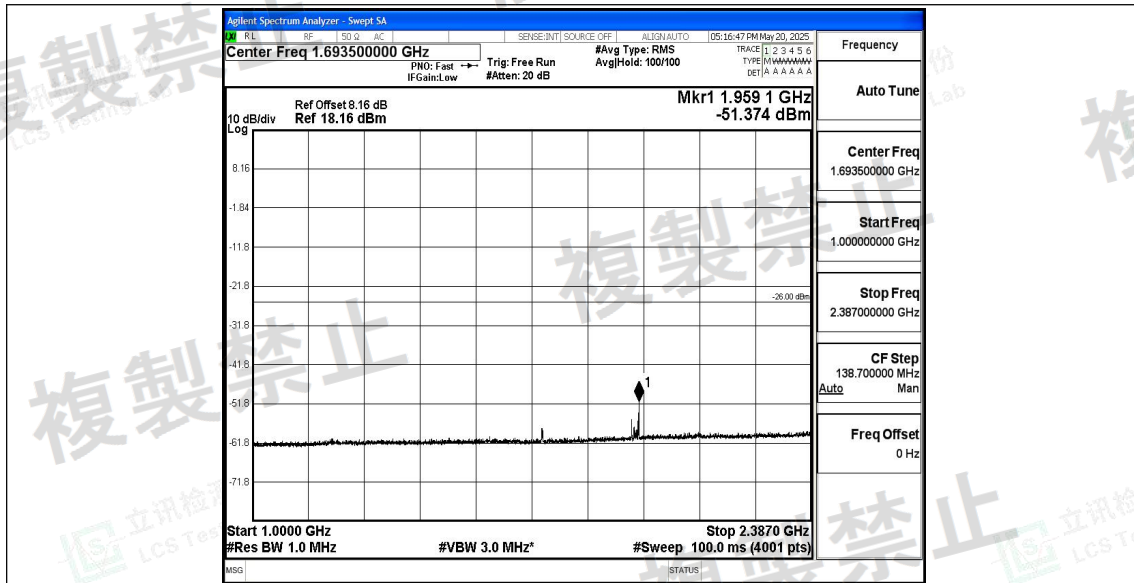


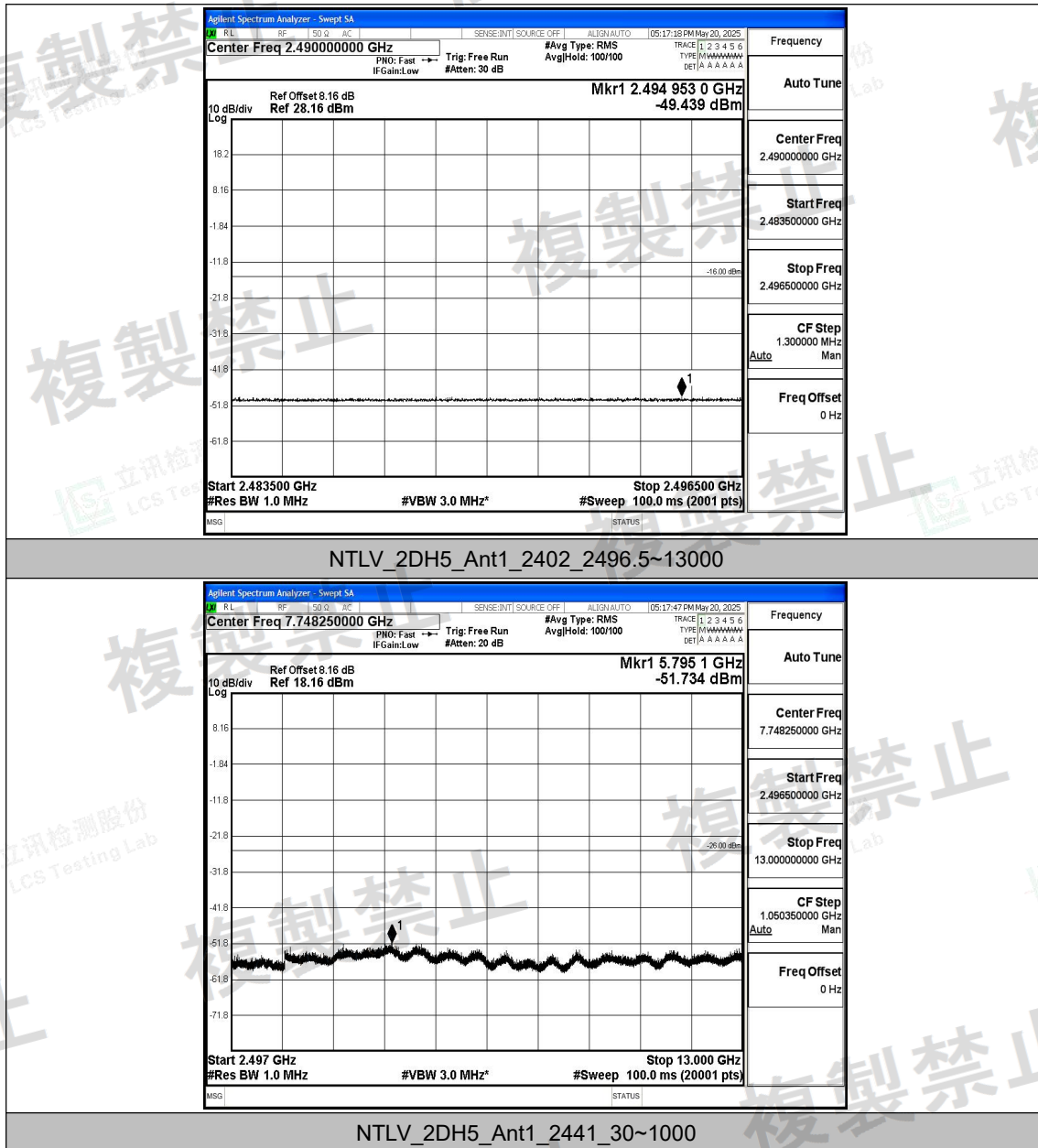
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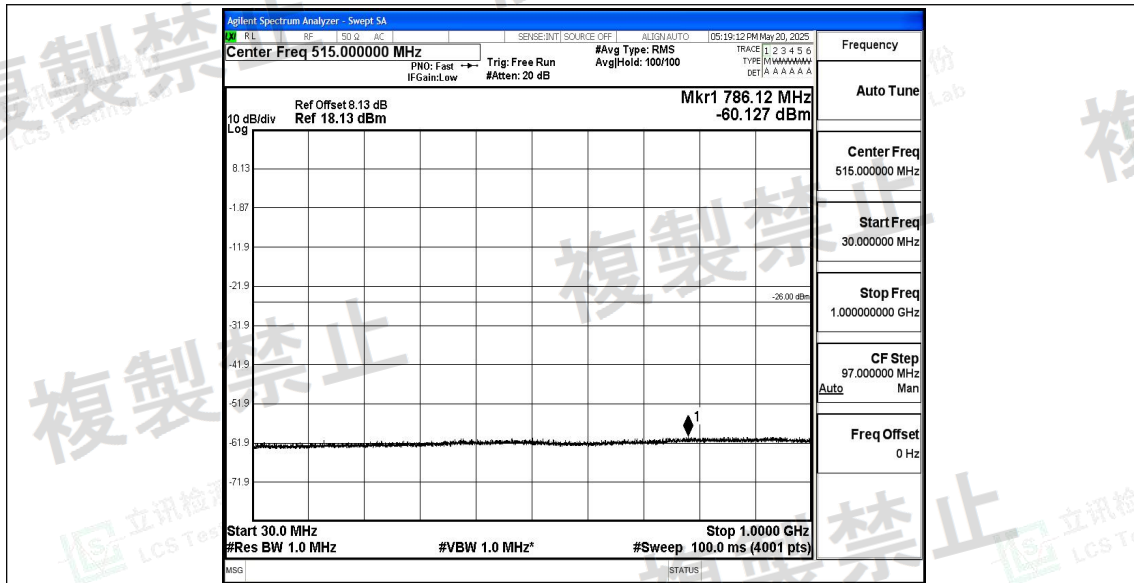


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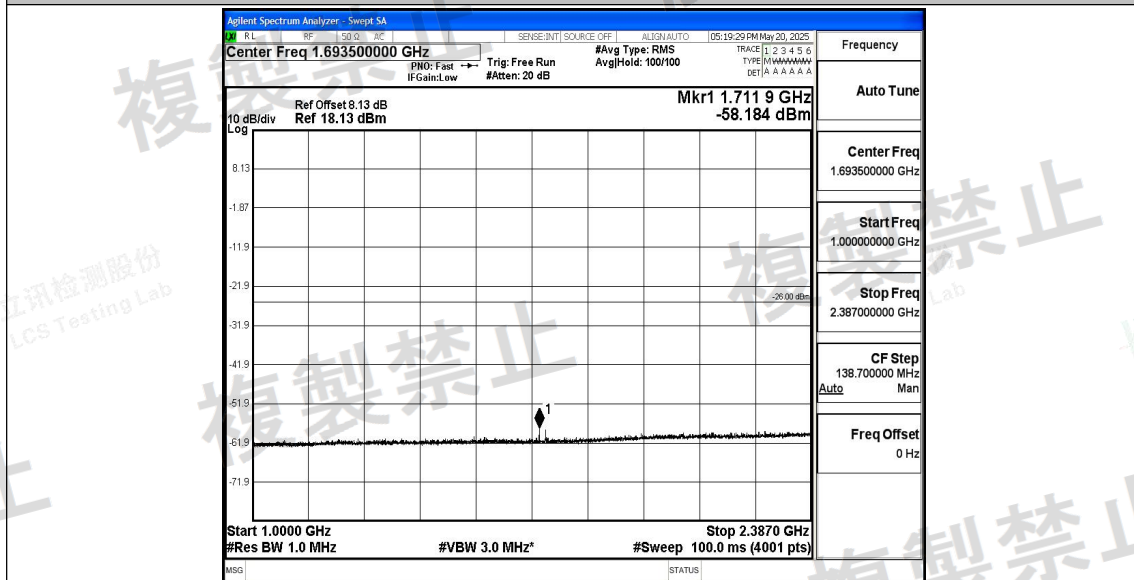








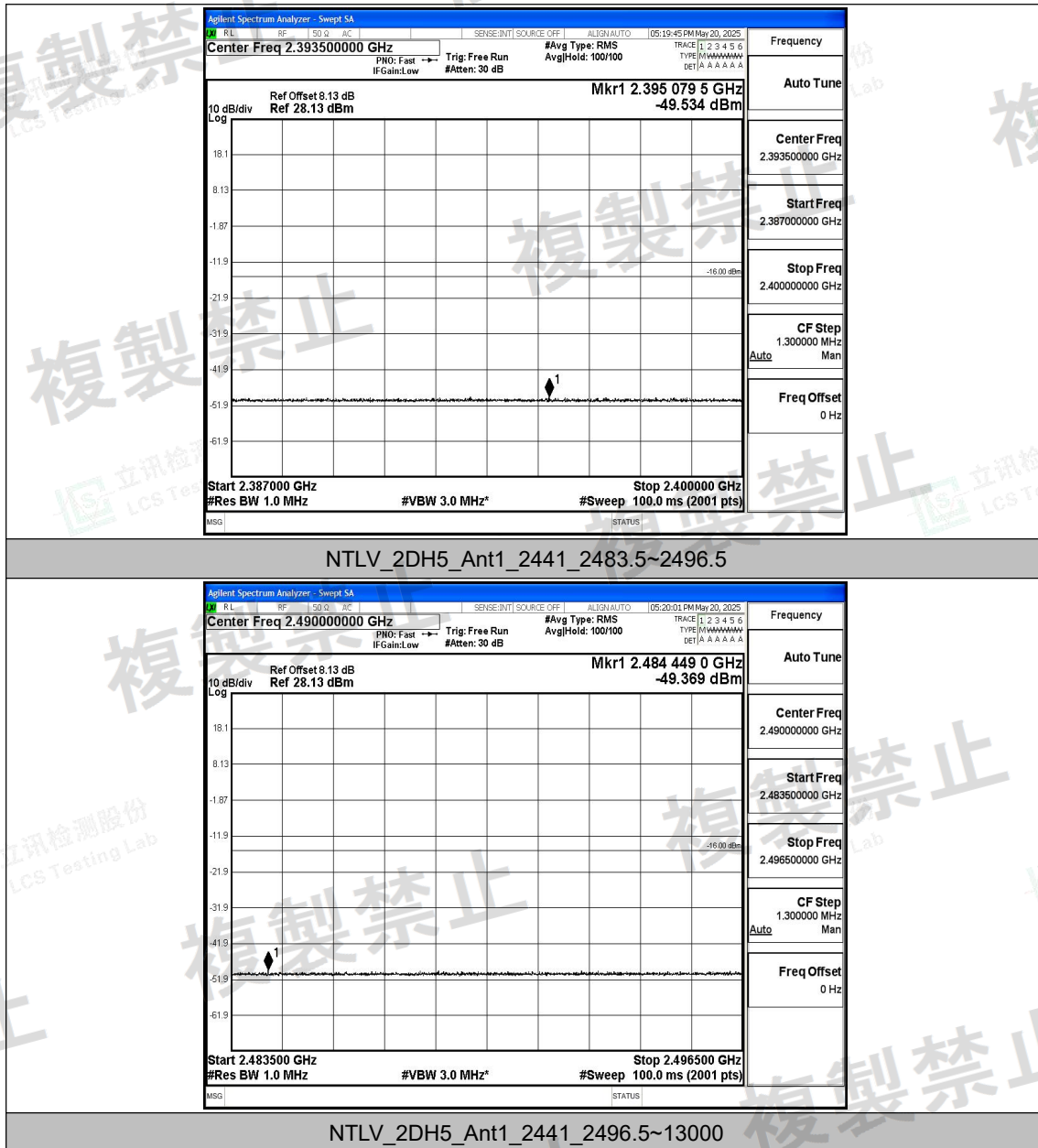
NTLV_2DH5_Ant1_2441_1000~2387

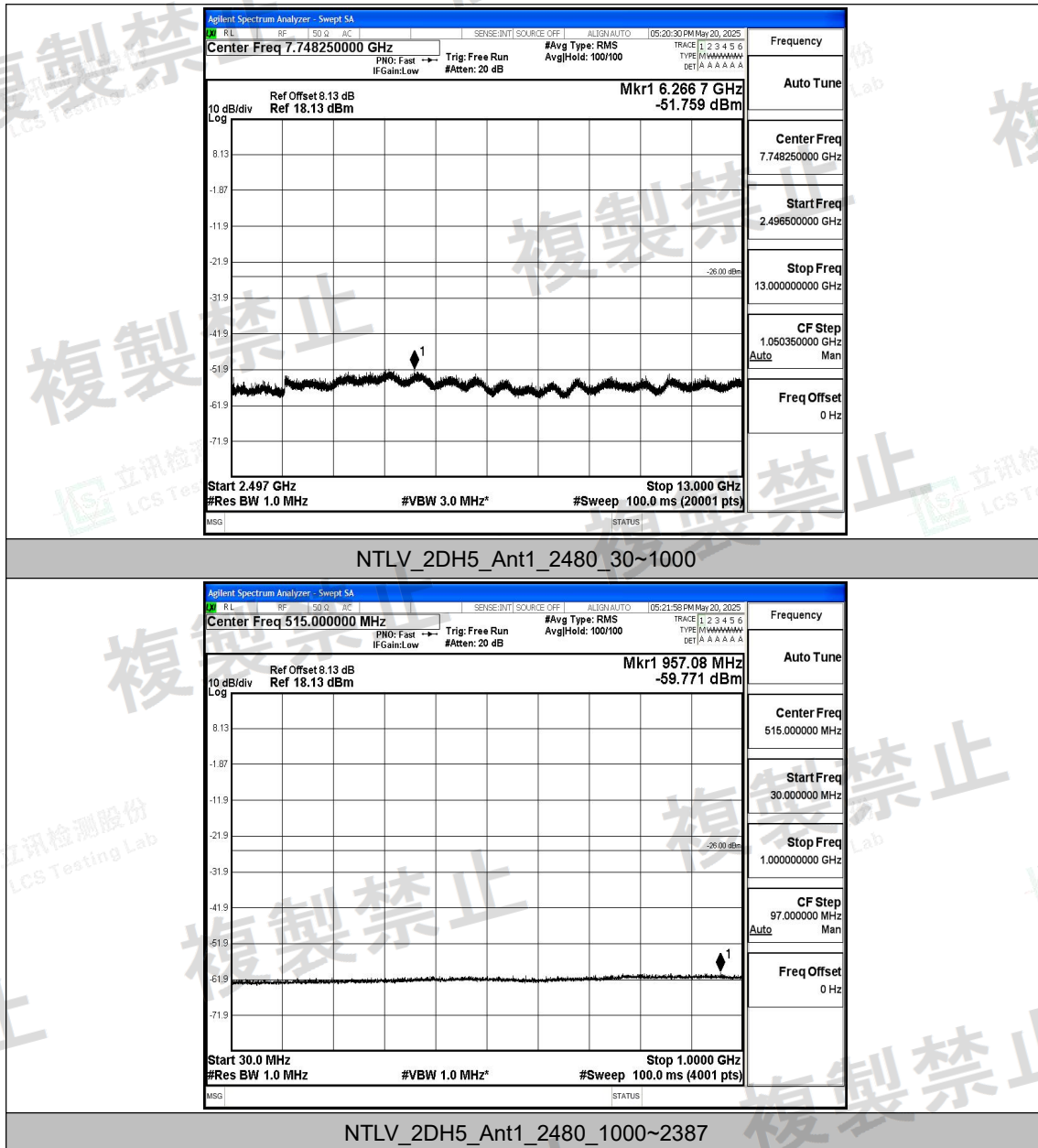


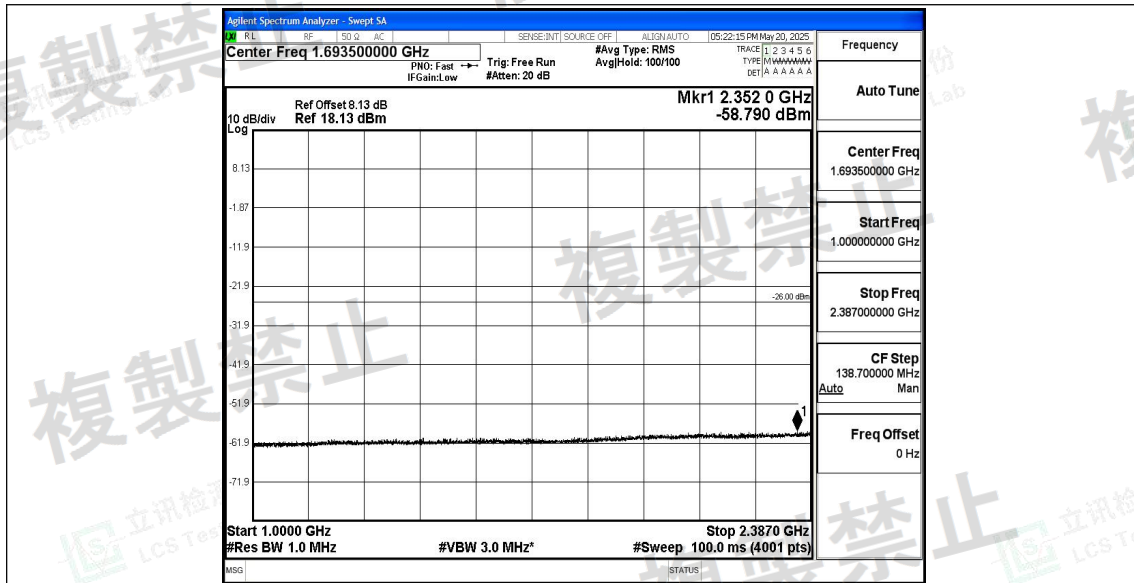
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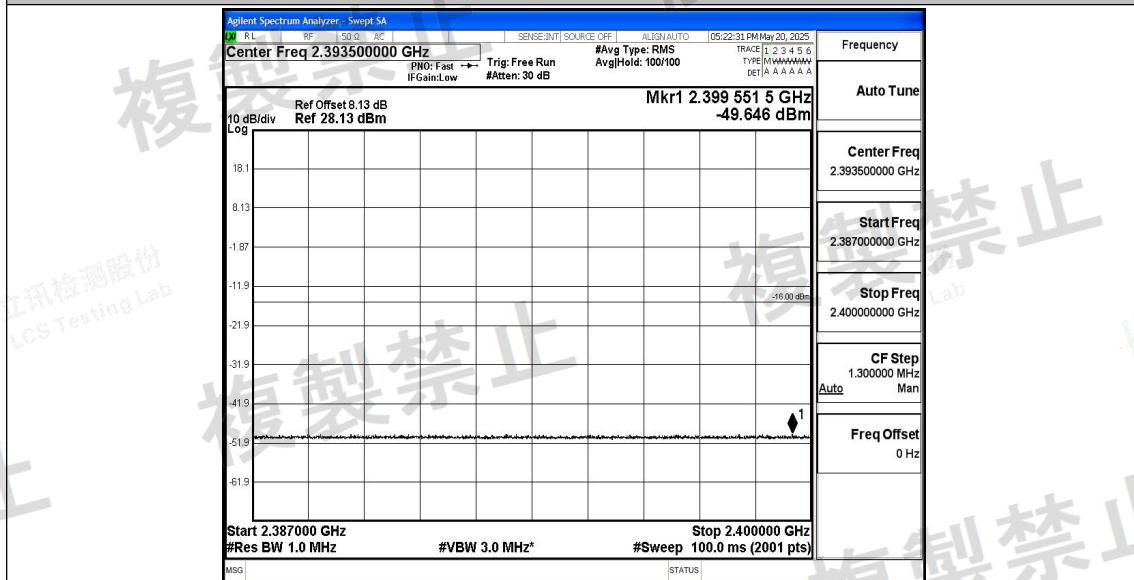
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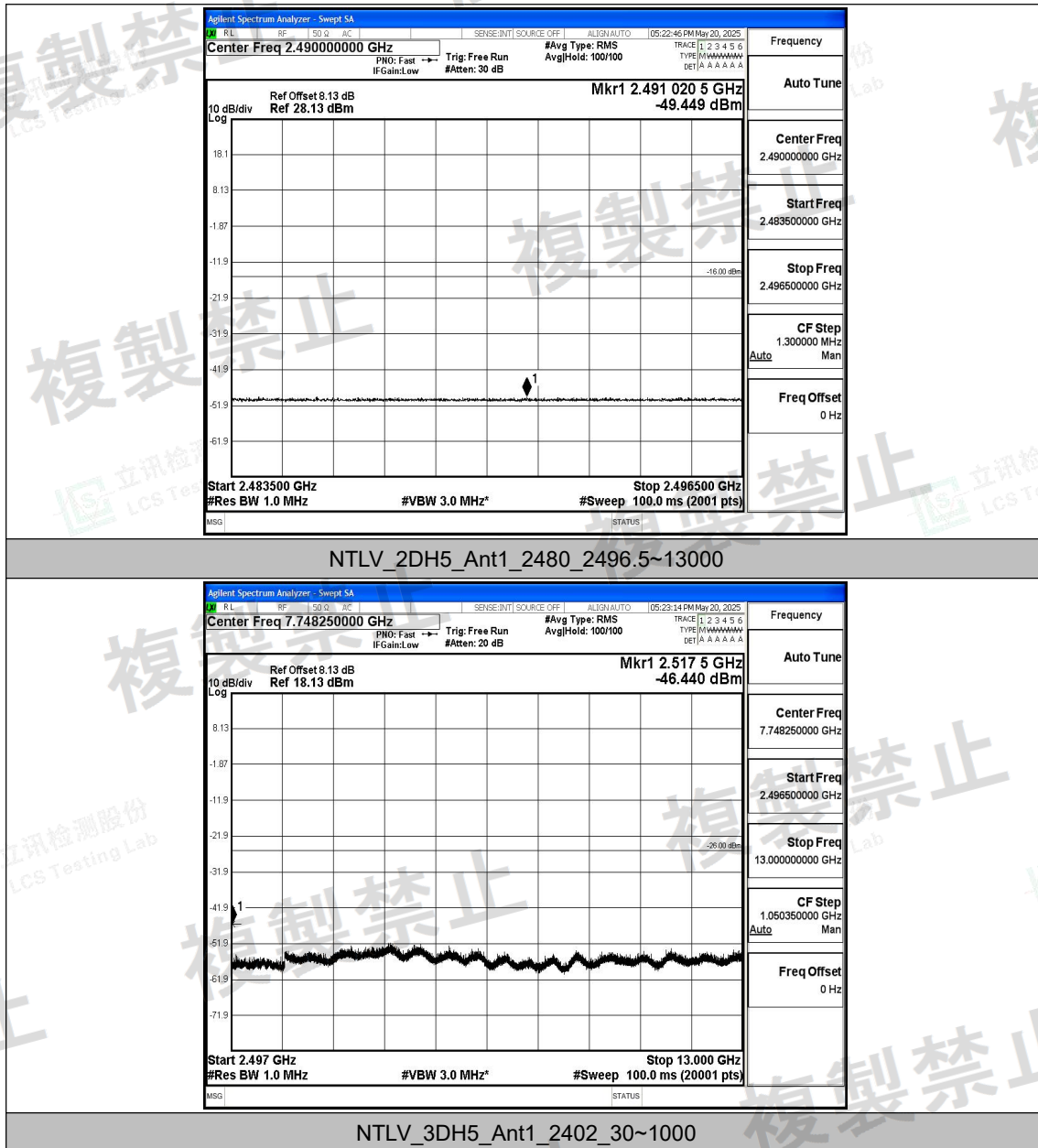
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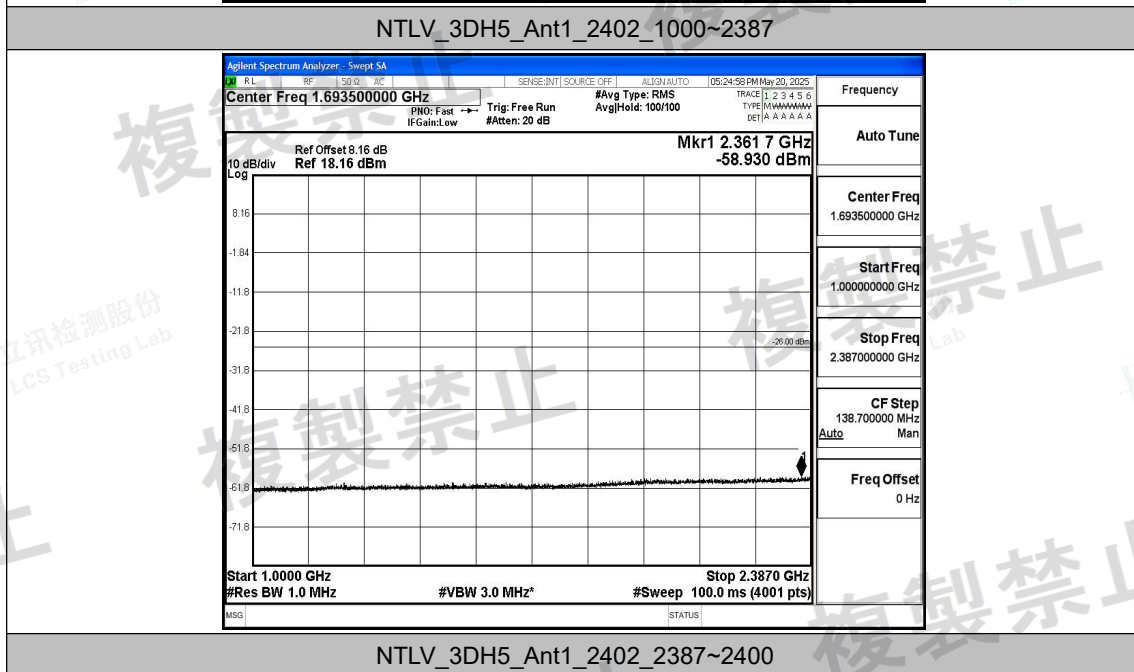
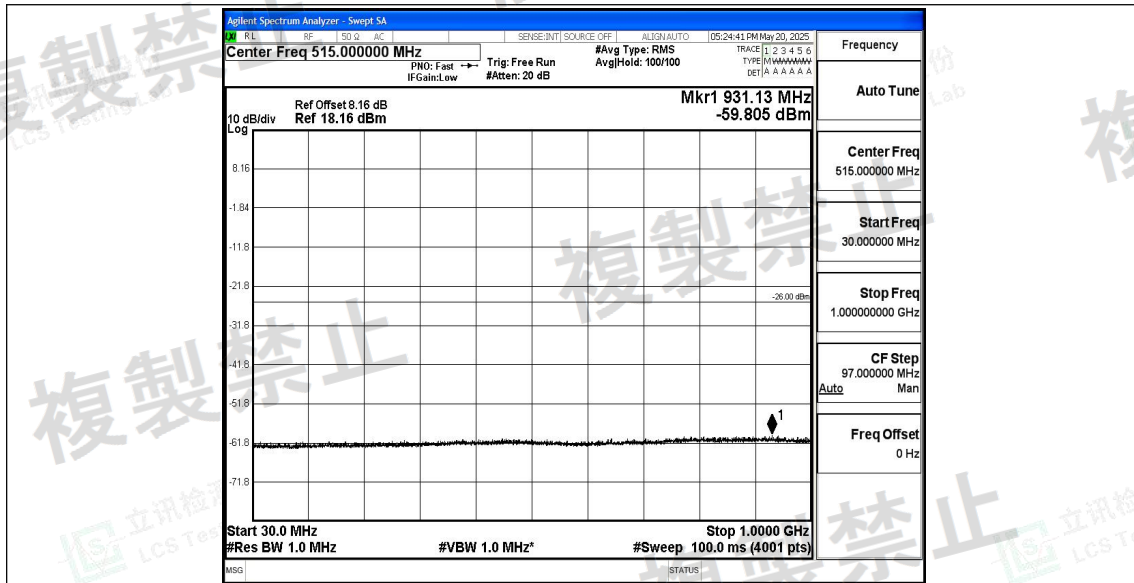


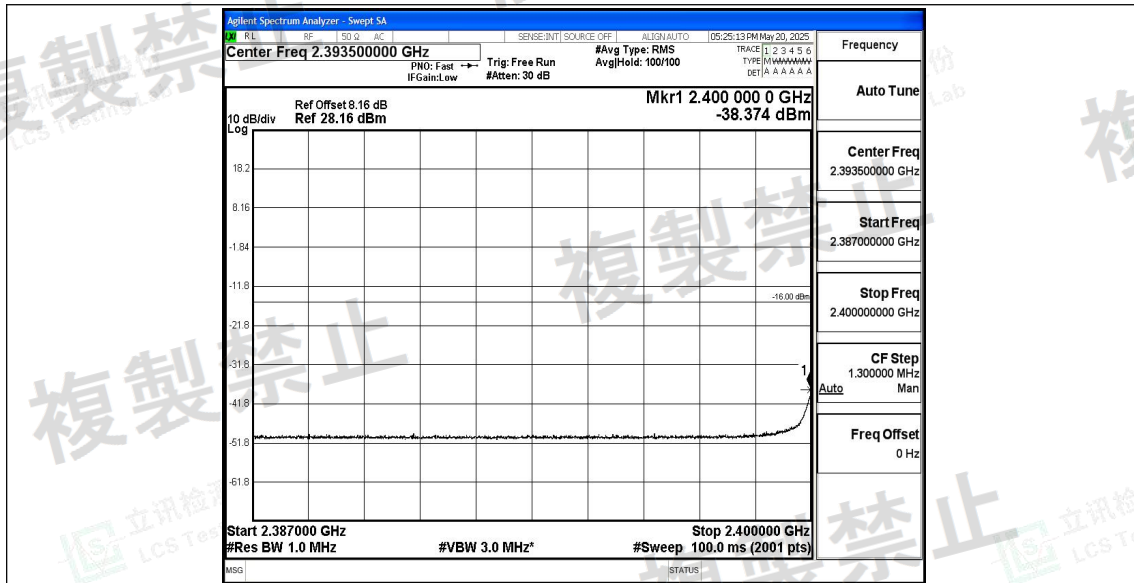
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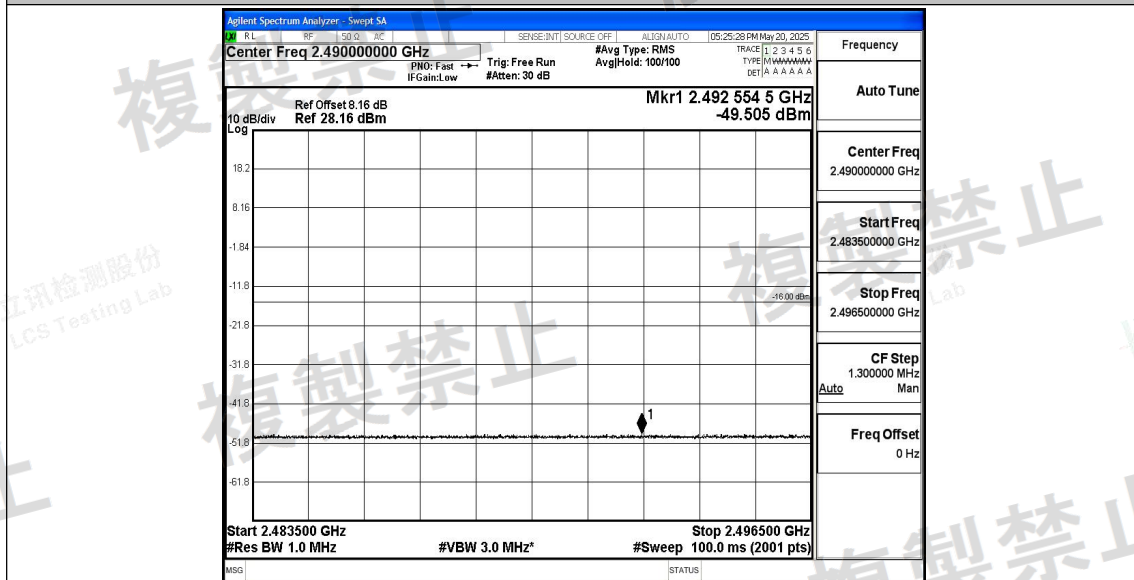
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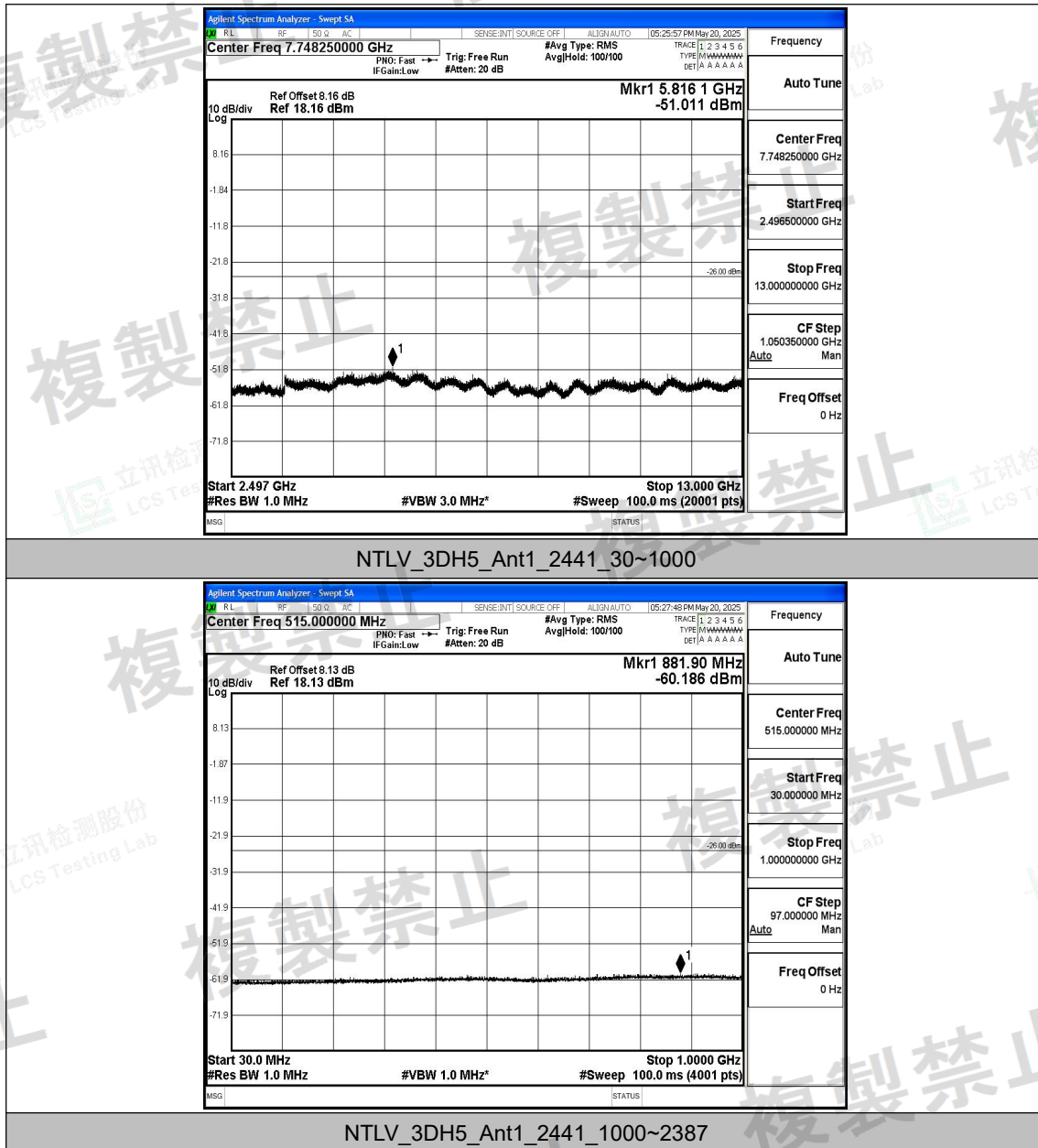
NTLV_3DH5_Ant1_2402_2483.5~2496.5

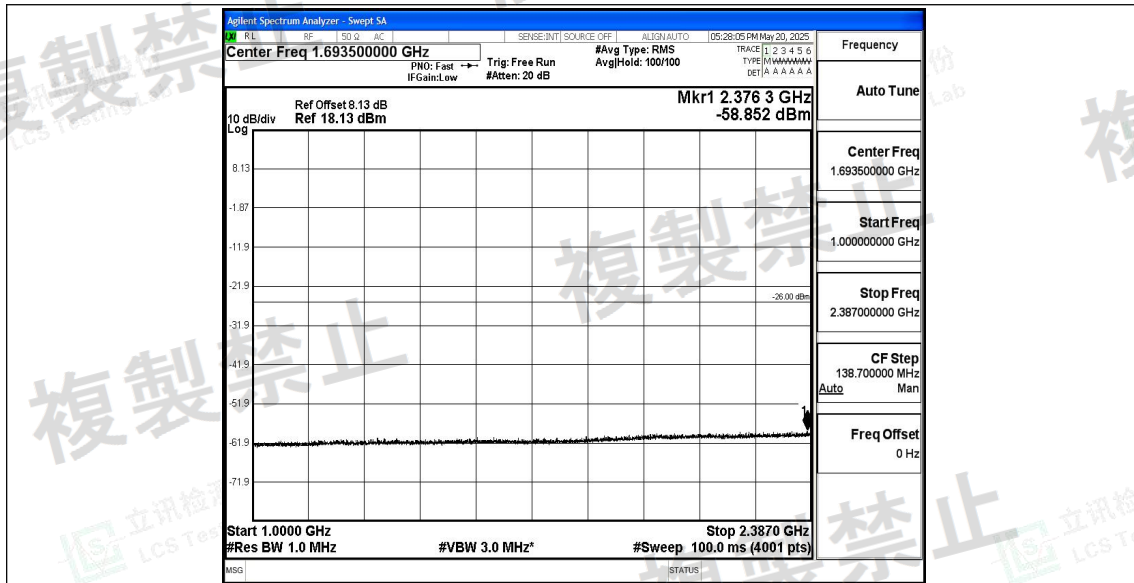


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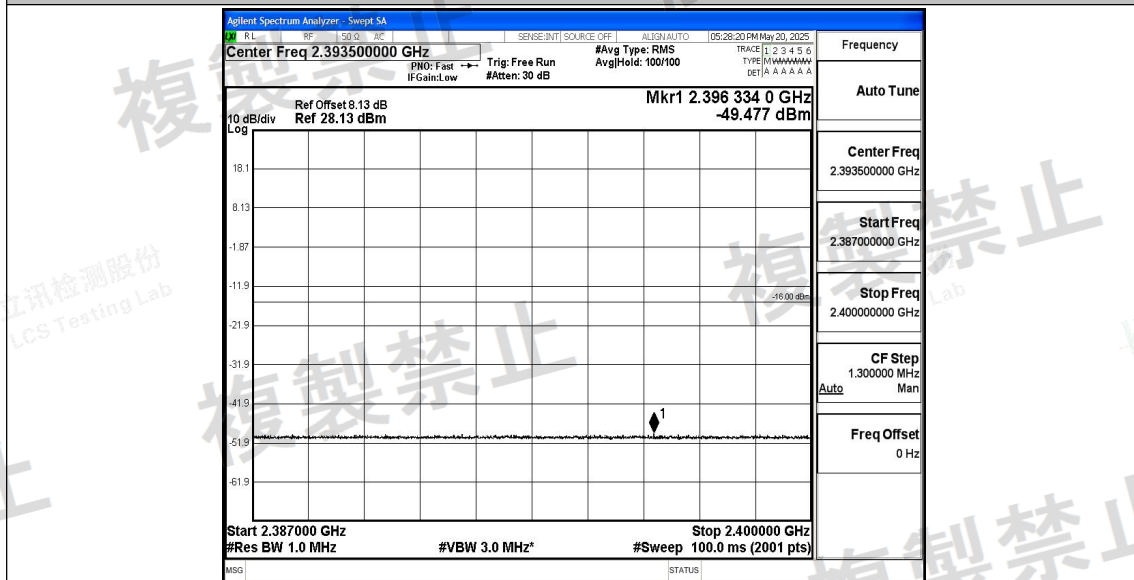


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NTLV_3DH5_Ant1_2441_2387~2400



NTLV_3DH5_Ant1_2441_2483.5~2496.5



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