



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: TWS Bluetooth Headset

Test Model: Airdopes131

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Nick Peng</i> Nick Peng
Supervised by:	<i>Ling Zhu</i> Ling Zhu





A.1 20dB Emission Bandwidth

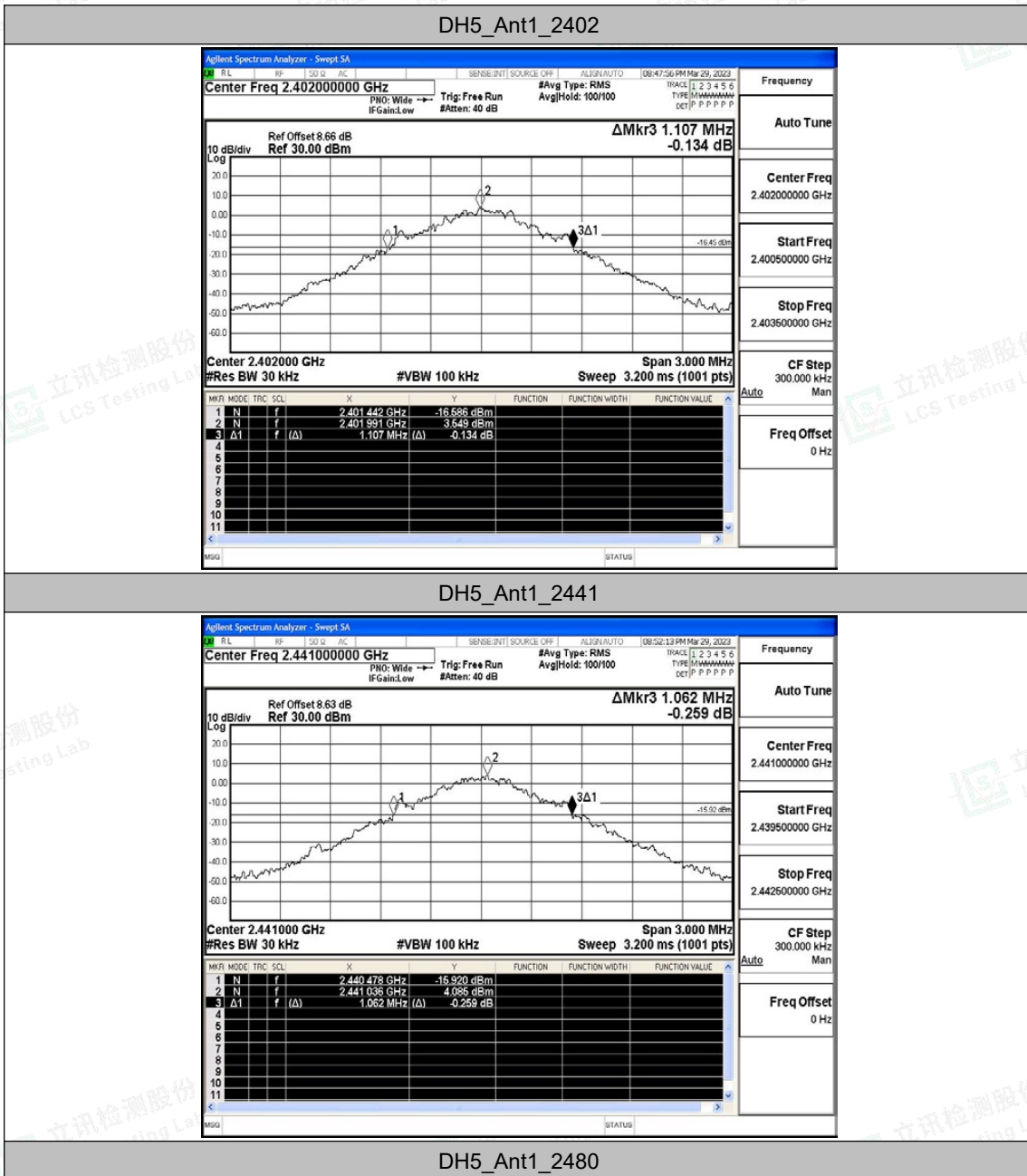
Test Result

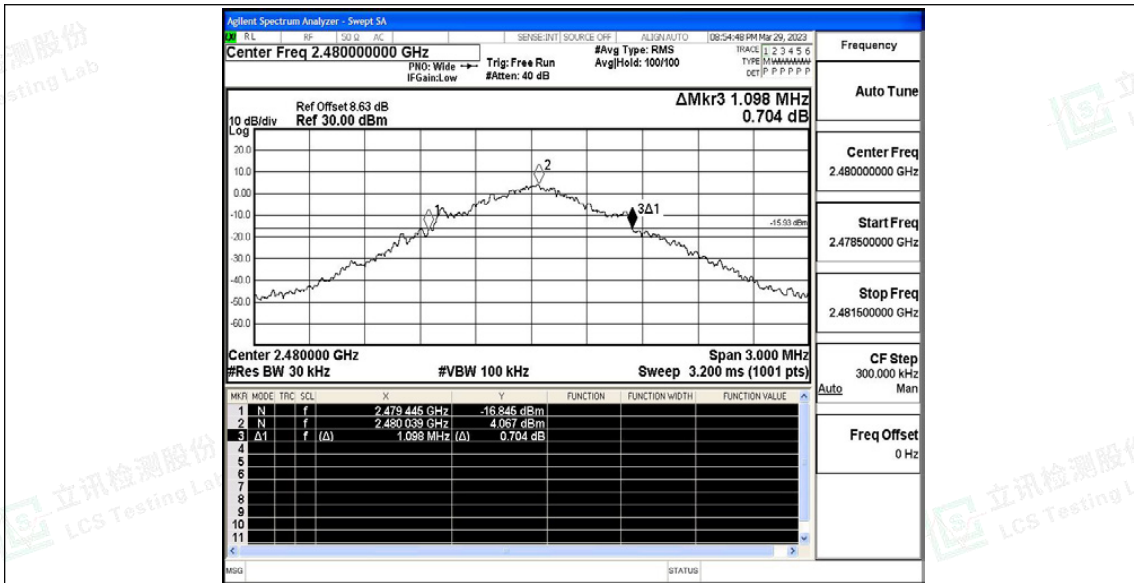
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.107	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.062	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.098	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.476	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.419	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.569	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.407	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.365	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.398	N/A	Pass



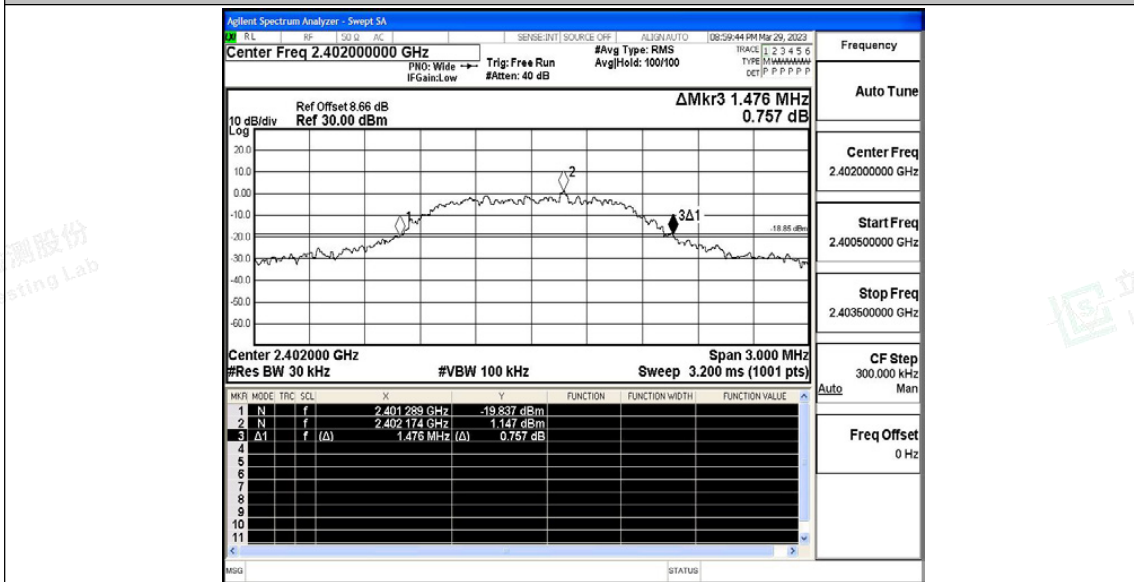


Test Graphs



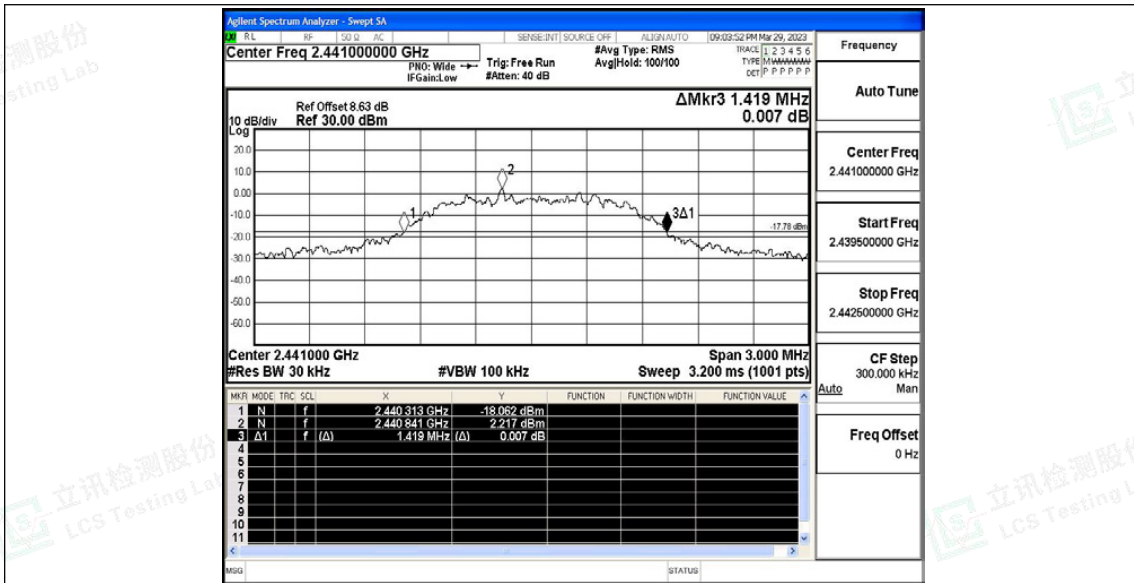


2DH5_Ant1_2402

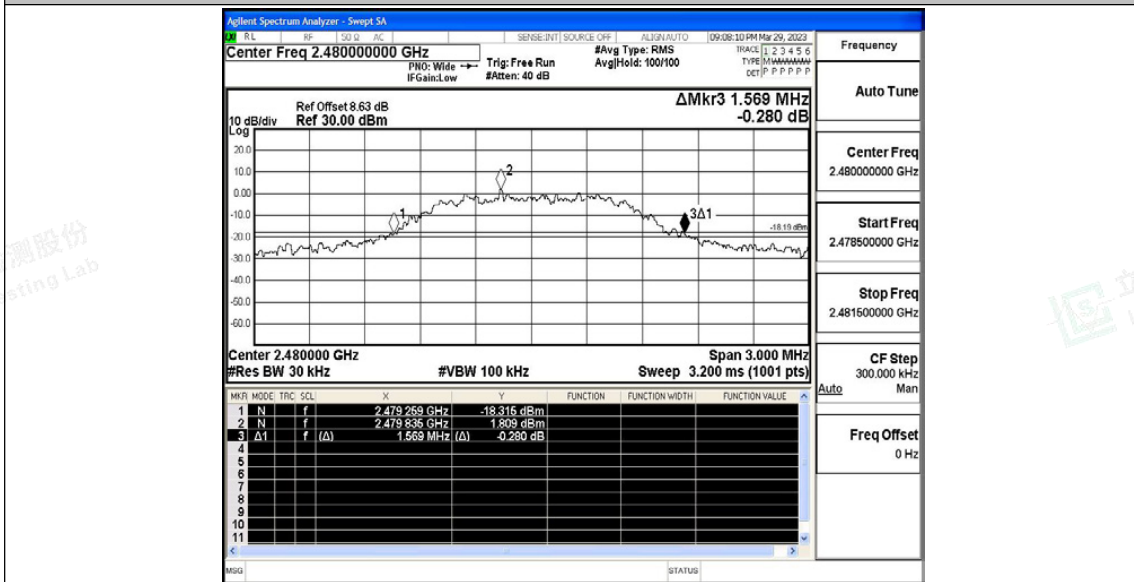


2DH5_Ant1_2441



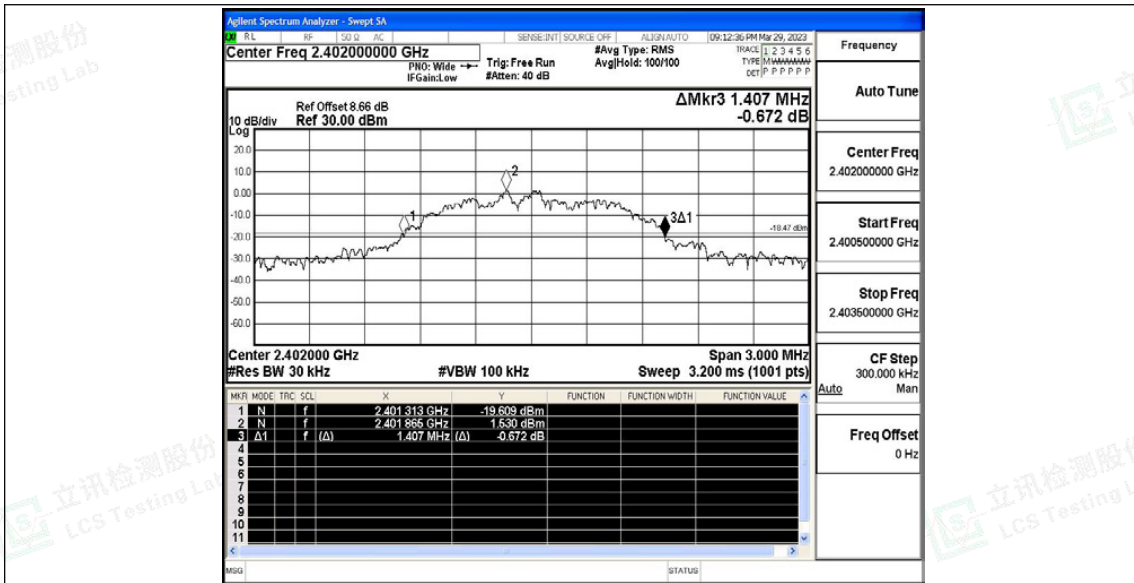


2Dh5_Ant1_2480

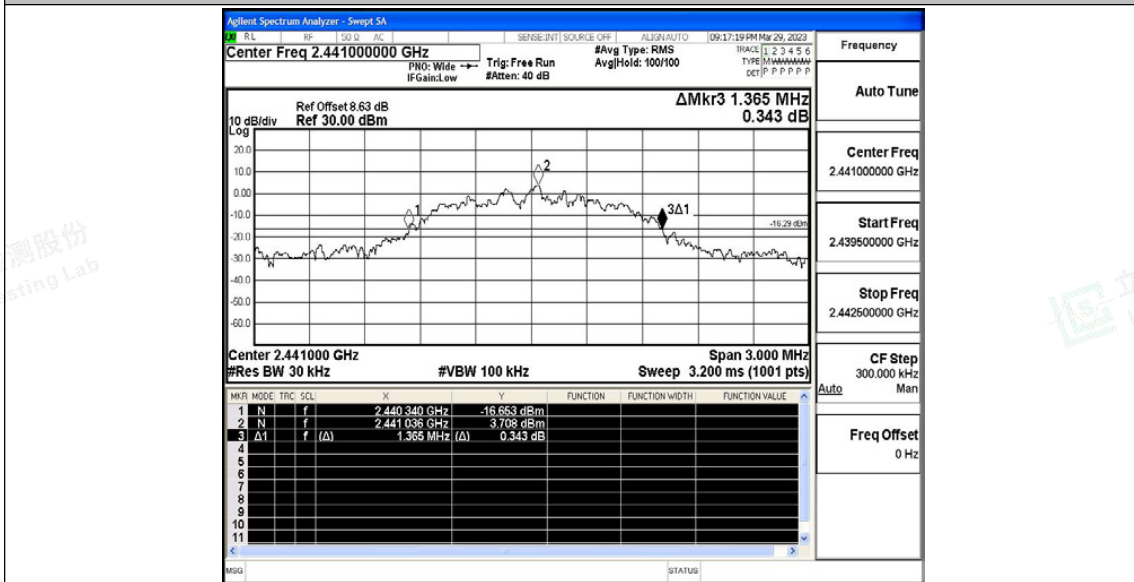


3Dh5_Ant1_2402



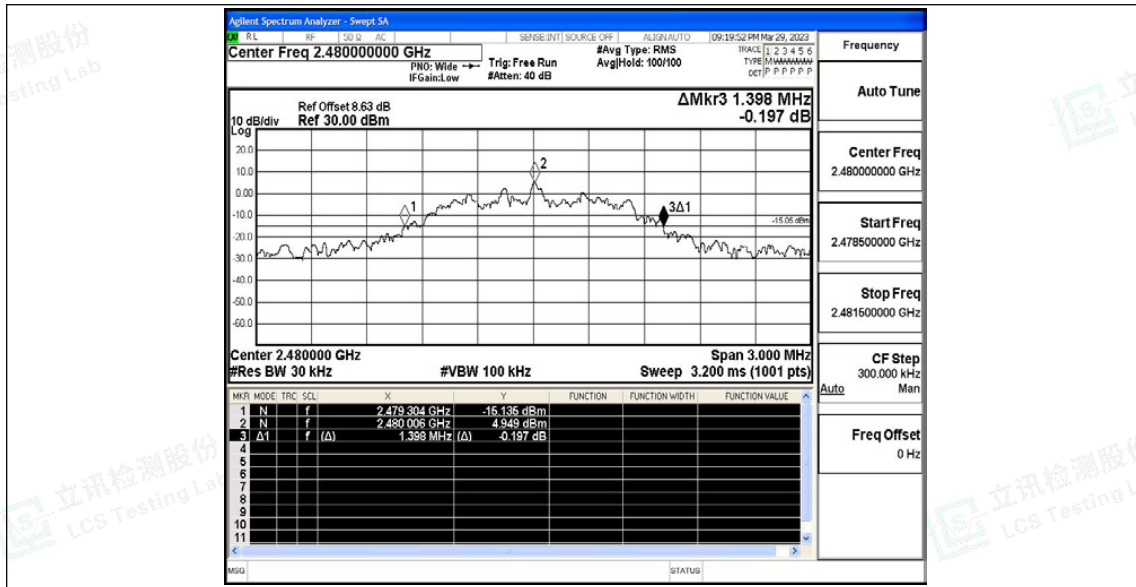


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum conducted output power

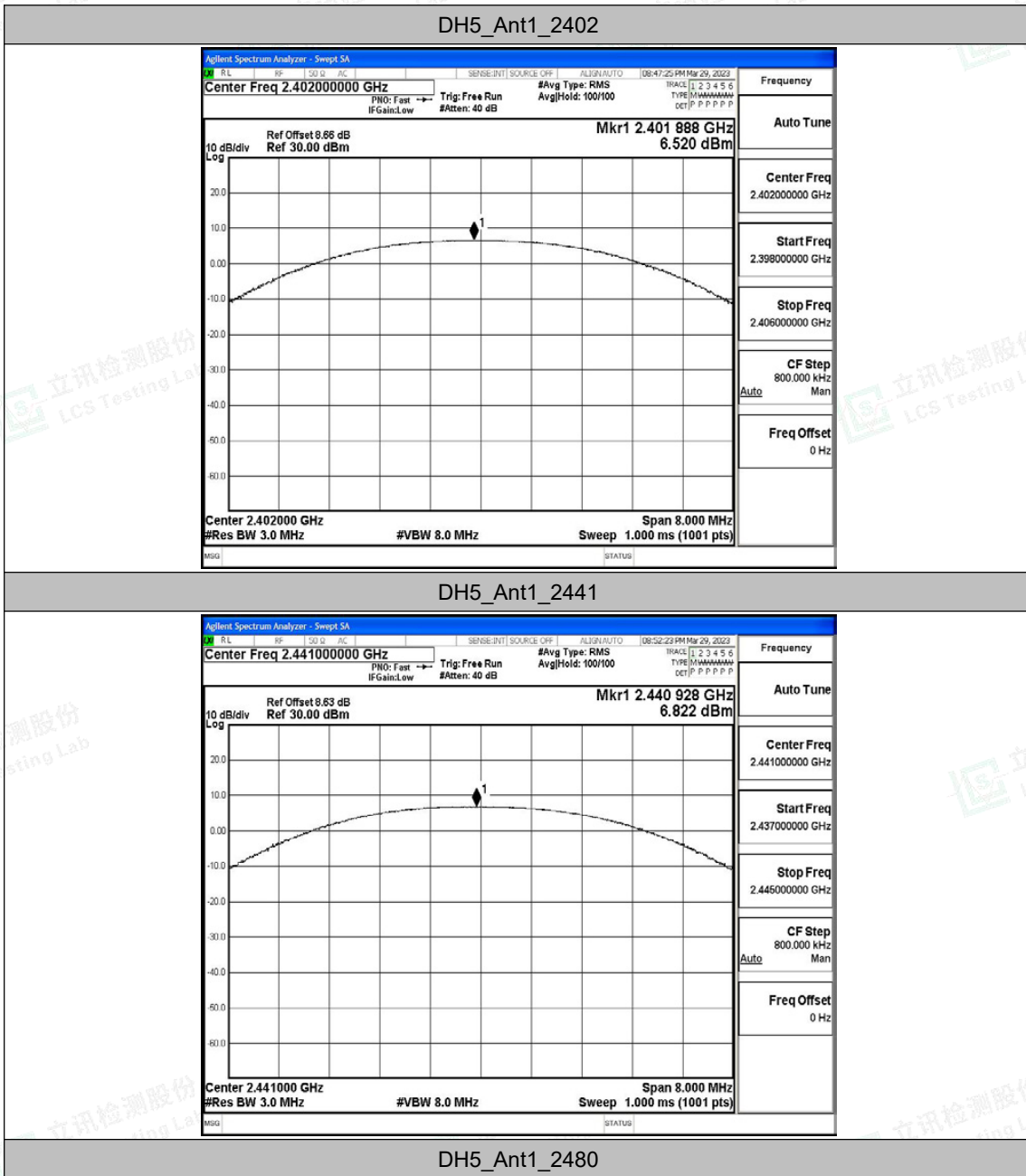
Test Result Peak

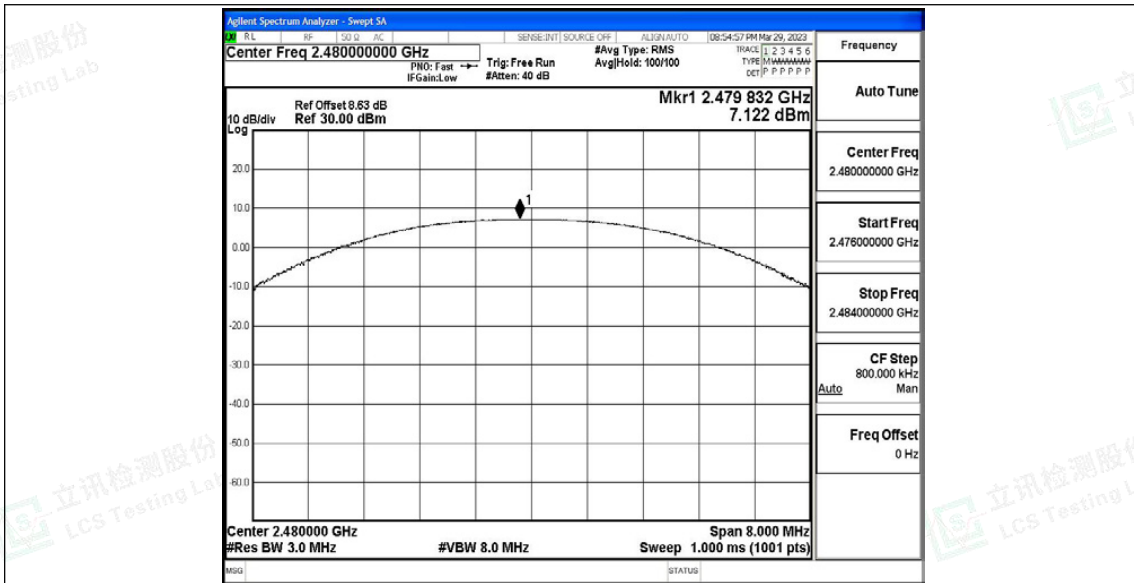
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	6.52	≤20.97	PASS
		2441	6.82	≤20.97	PASS
		2480	7.12	≤20.97	PASS
2DH5	Ant1	2402	6.74	≤20.97	PASS
		2441	7.09	≤20.97	PASS
		2480	7.33	≤20.97	PASS
3DH5	Ant1	2402	6.82	≤20.97	PASS
		2441	7.12	≤20.97	PASS
		2480	7.39	≤20.97	PASS



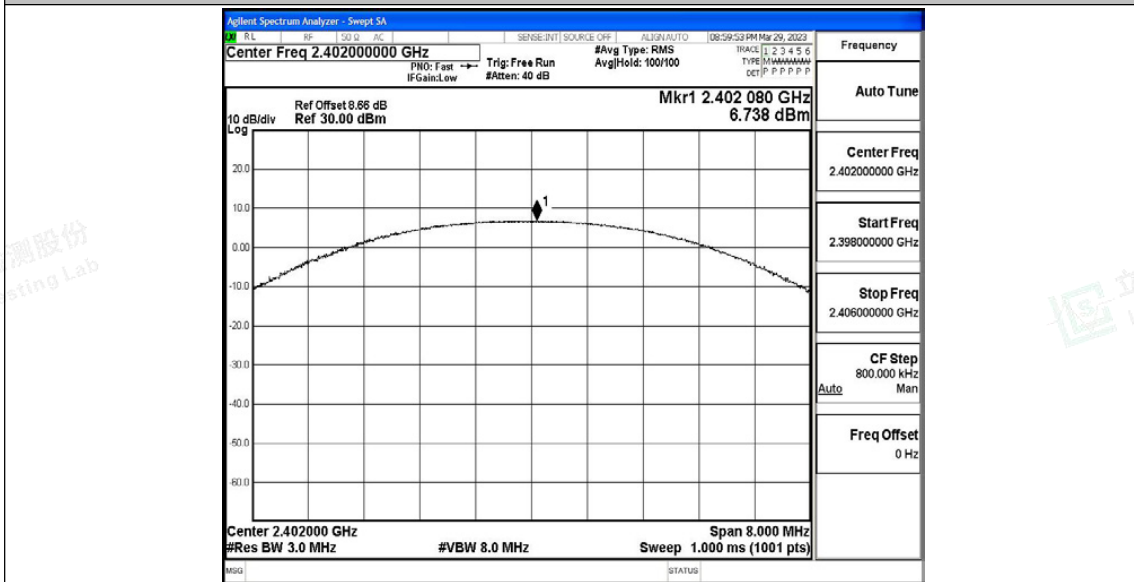


Test Graphs



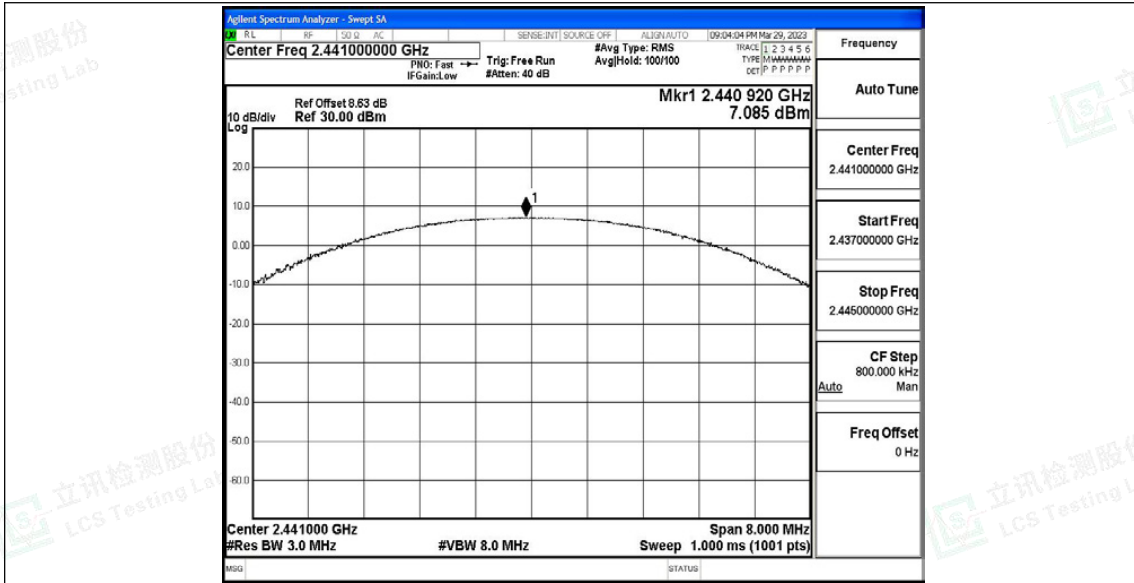


2DH5_Ant1_2402

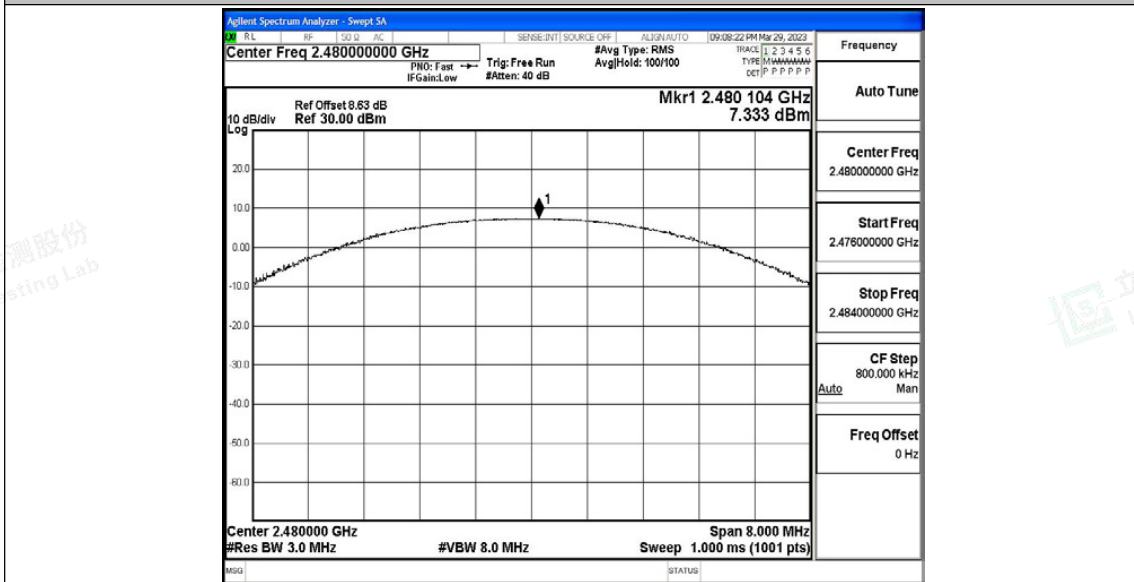


2DH5_Ant1_2441



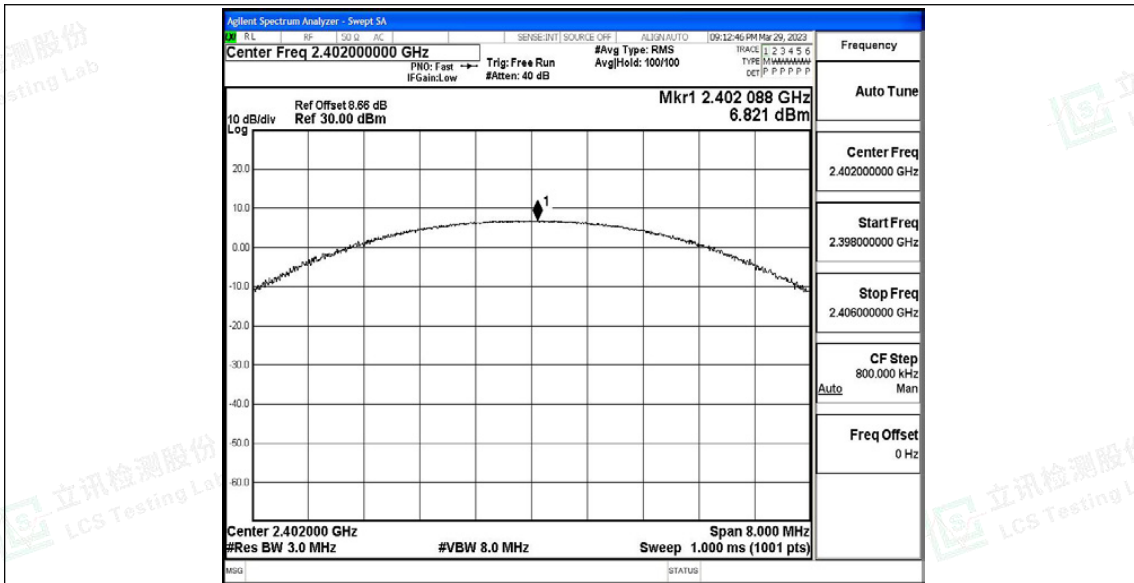


2Dh5_Ant1_2480

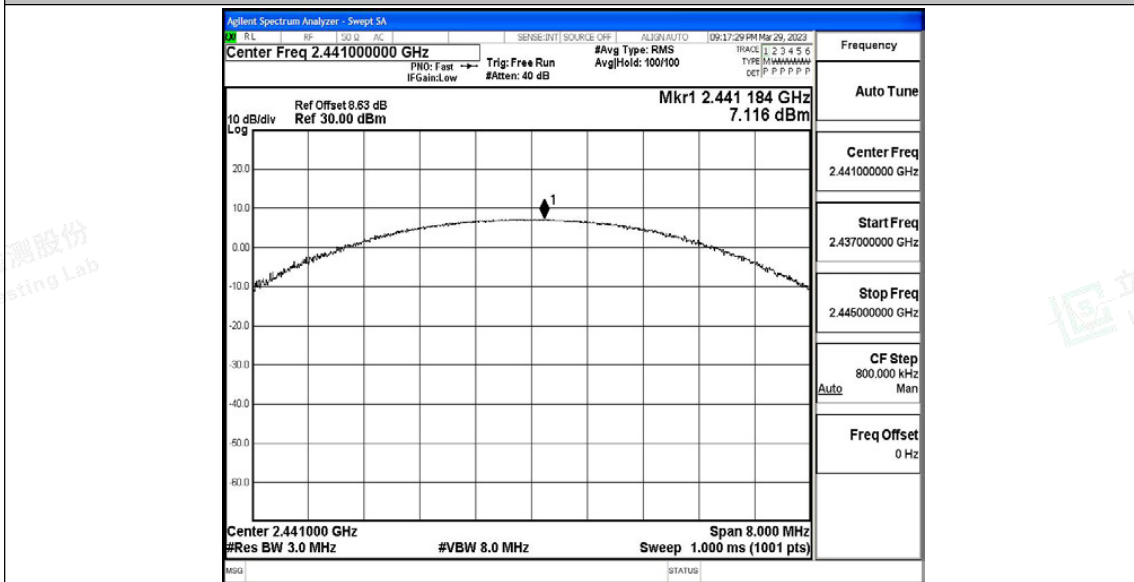


3DH5_Ant1_2402



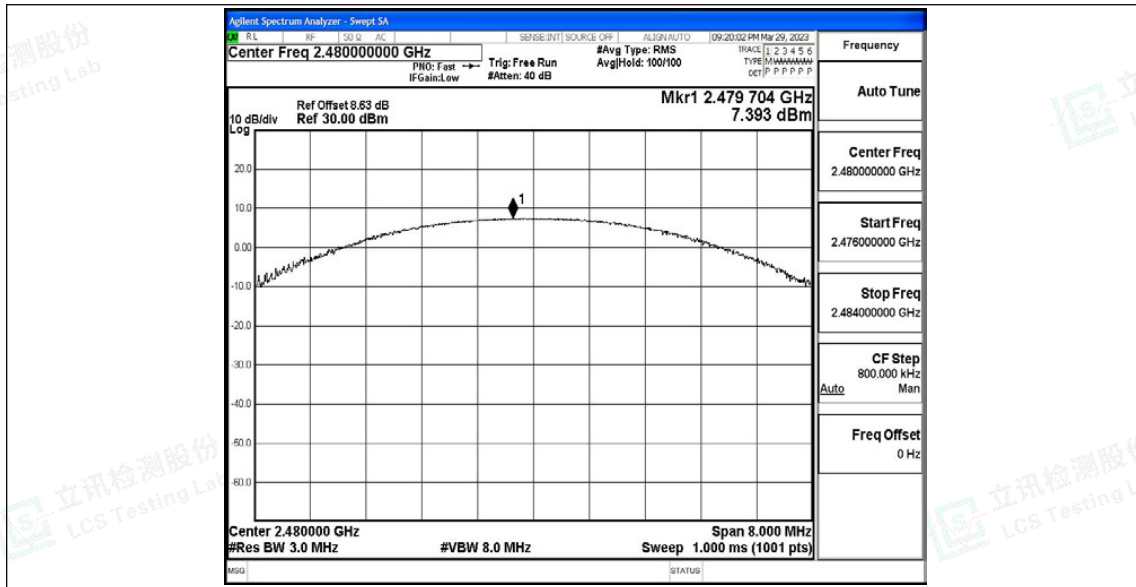


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

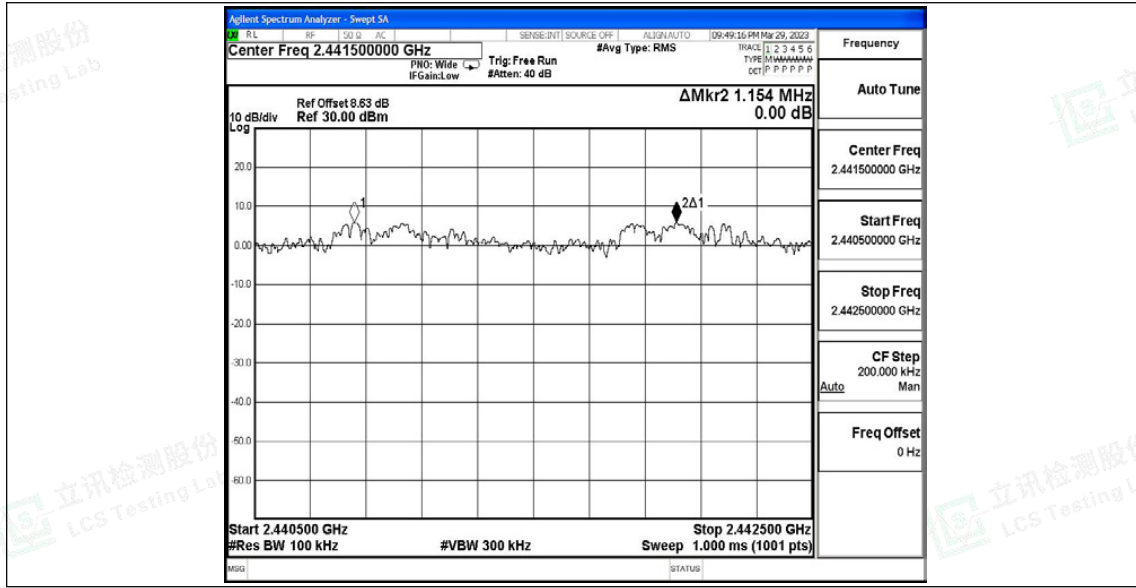
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.92	≥0.738	PASS
2DH5	Ant1	Hop	1.288	≥1.046	PASS
3DH5	Ant1	Hop	1.154	≥0.938	PASS





Test Graphs







A.4 Time of occupancy

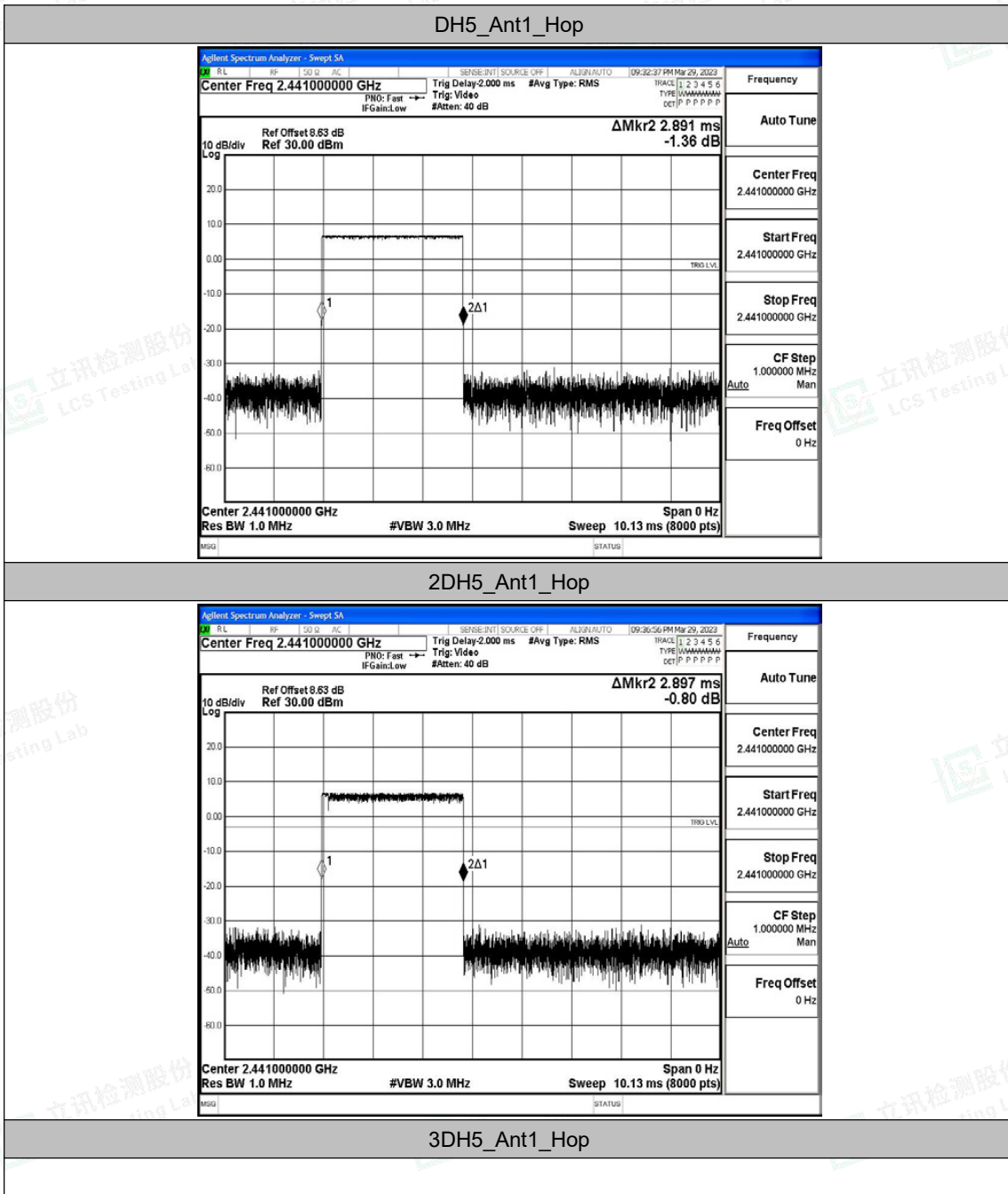
Test Result

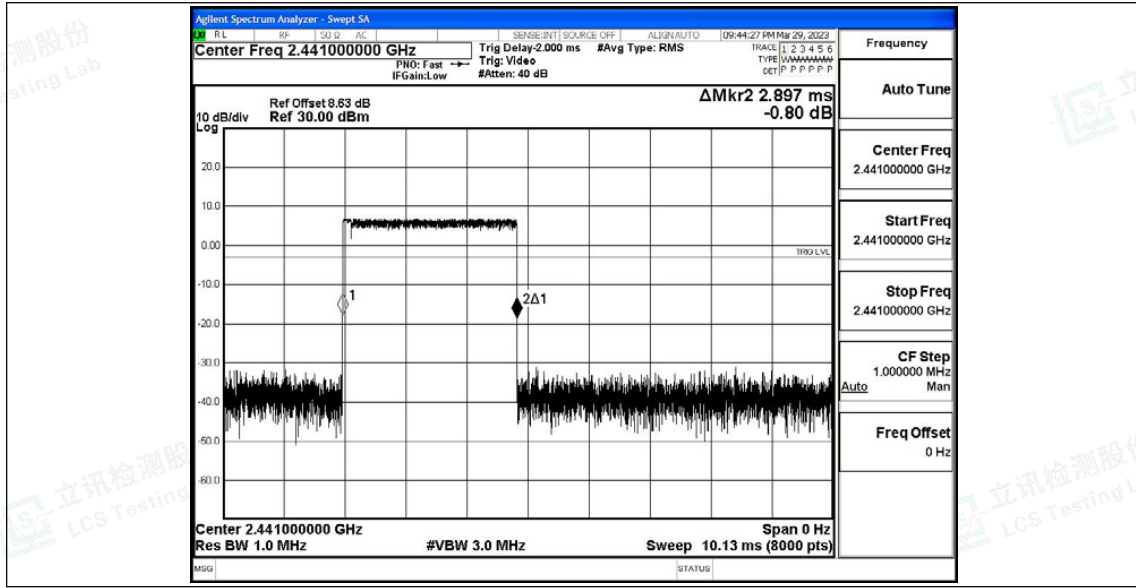
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.891	106.67	0.308	≤0.4	PASS
2DH5	Ant1	Hop	2.897	106.67	0.309	≤0.4	PASS
3DH5	Ant1	Hop	2.897	106.67	0.309	≤0.4	PASS





Test Graphs







A.5 Number of hopping channels

Test Result

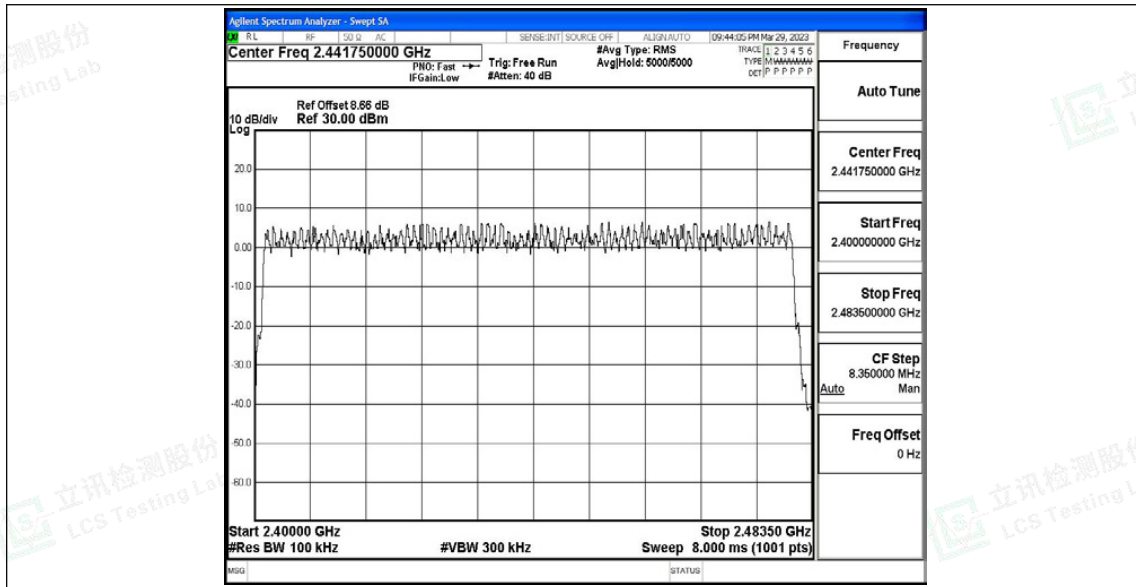
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

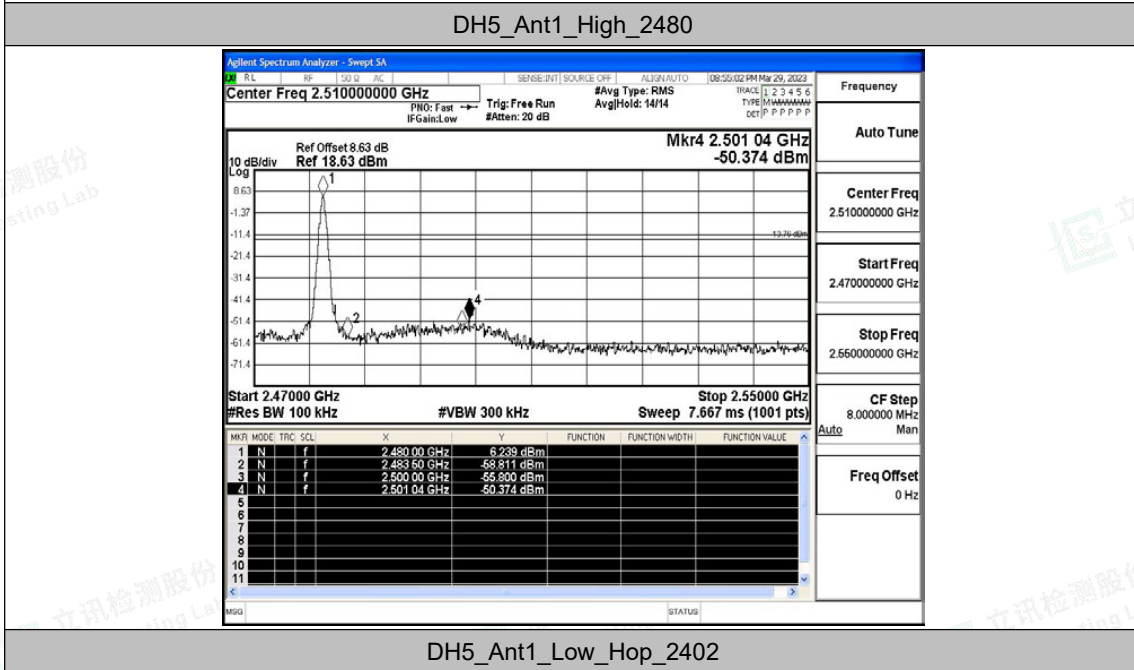
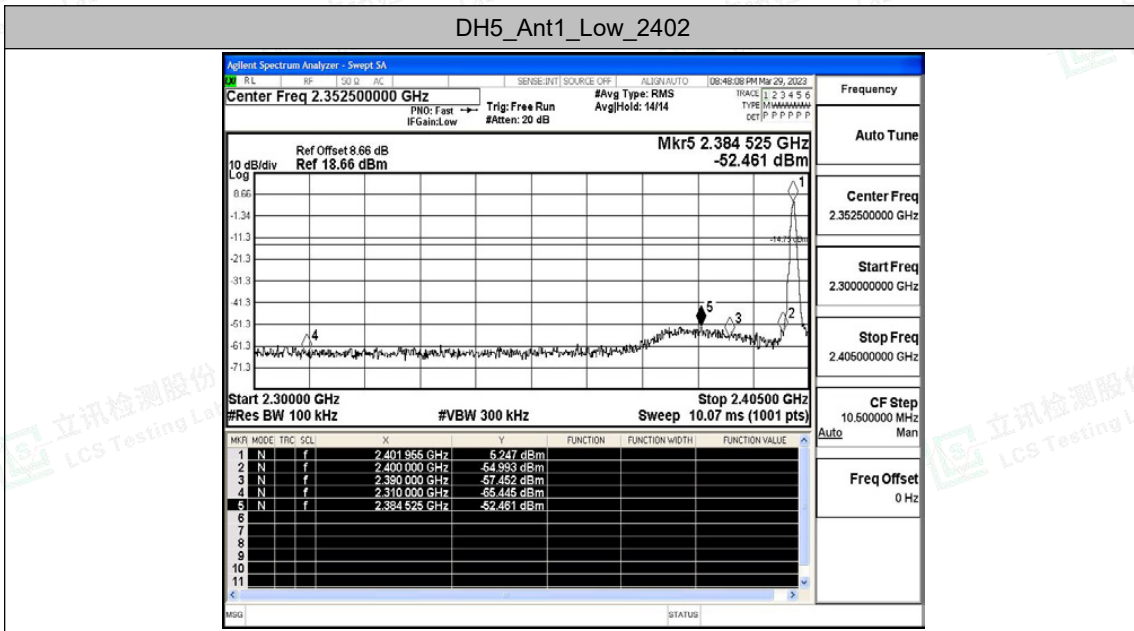
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.25	-52.46	≤-14.75	PASS
		High	2480	6.24	-50.37	≤-13.76	PASS
		Low	Hop_2402	5.26	-51.75	≤-14.74	PASS
		High	Hop_2480	6.59	-51.23	≤-13.41	PASS
2DH5	Ant1	Low	2402	3.12	-42.69	≤-16.88	PASS
		High	2480	5.40	-50.12	≤-14.6	PASS
		Low	Hop_2402	4.60	-49.22	≤-15.4	PASS
		High	Hop_2480	4.38	-48.38	≤-15.63	PASS
3DH5	Ant1	Low	2402	1.72	-47.72	≤-18.28	PASS
		High	2480	6.15	-49.7	≤-13.85	PASS
		Low	Hop_2402	4.27	-49.82	≤-15.73	PASS
		High	Hop_2480	5.11	-50.35	≤-14.89	PASS



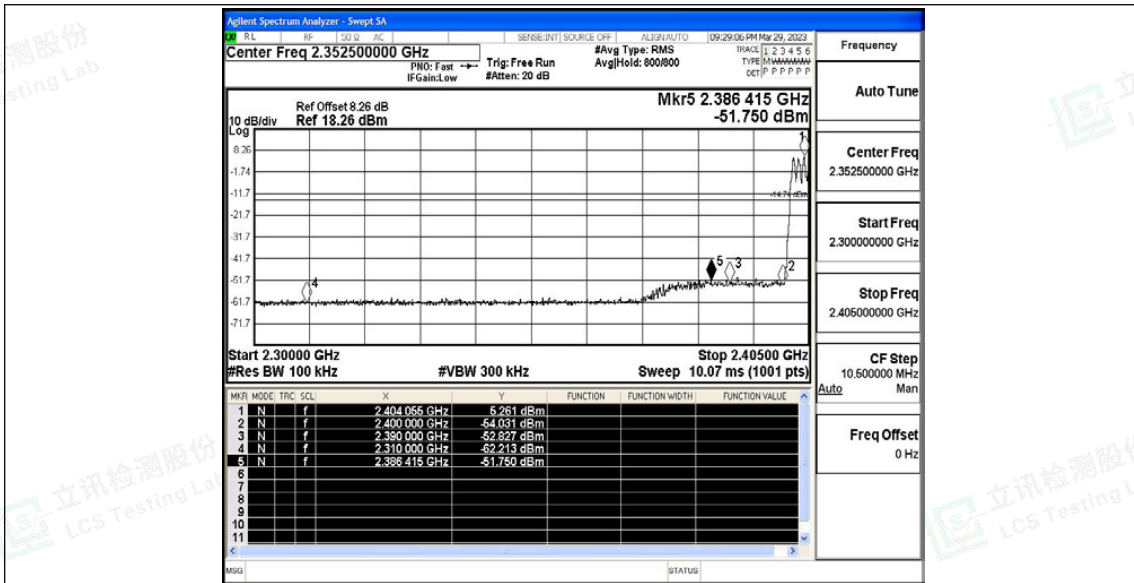


Test Graphs

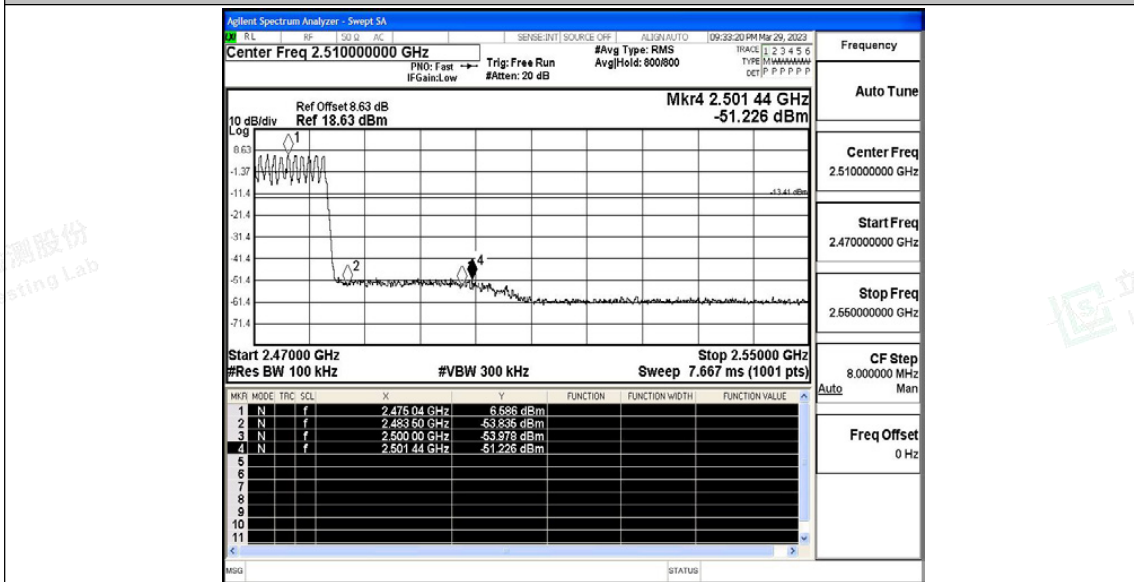


DH5_Ant1_Low_Hop_2402



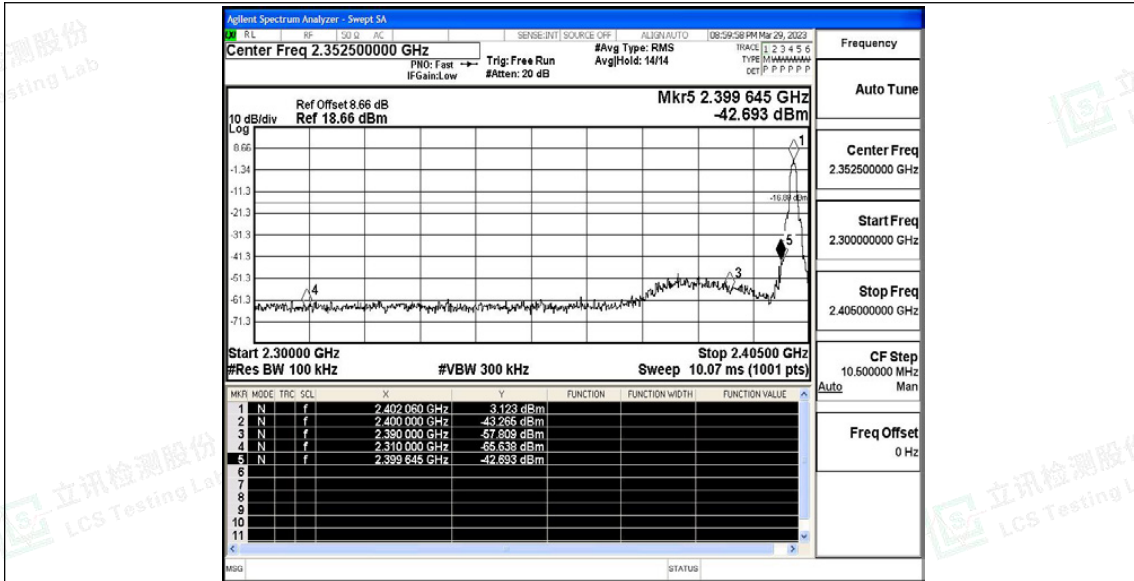


DH5_Ant1_High_Hop_2480

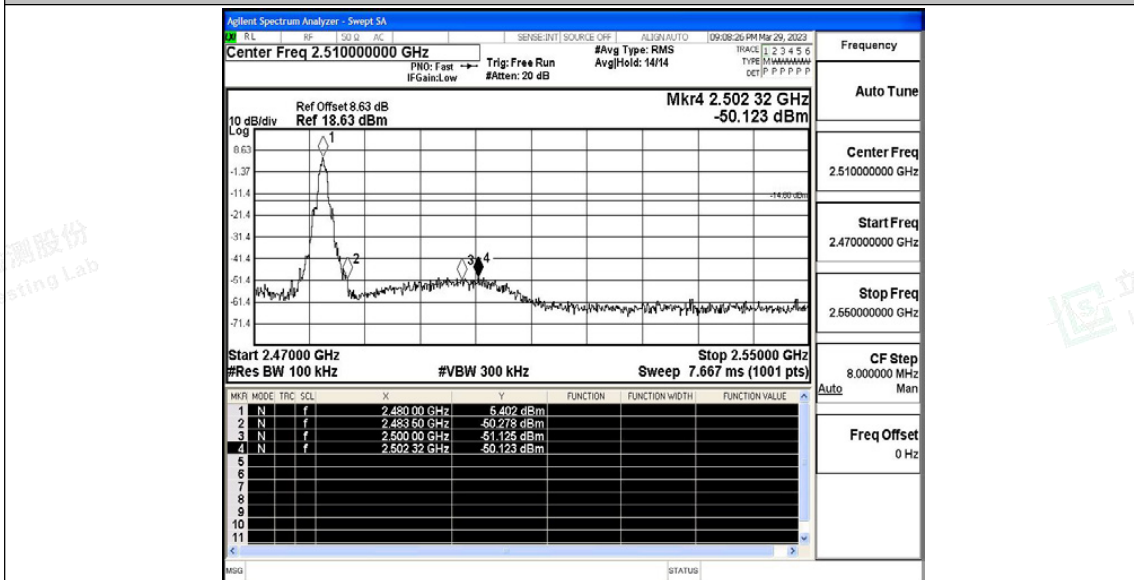


2DH5_Ant1_Low_2402



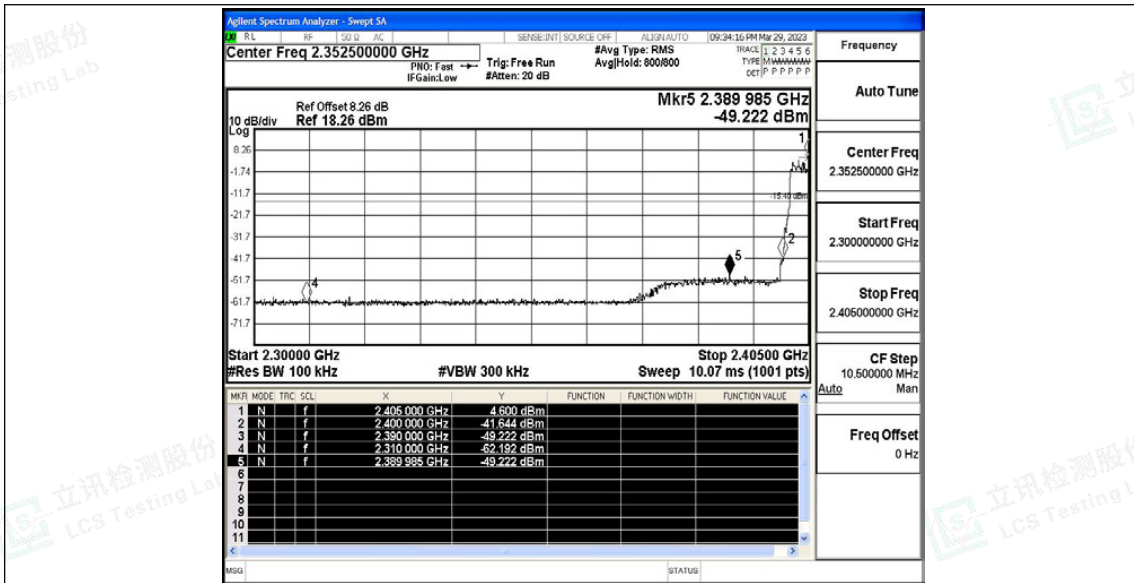


2DH5_Ant1_High_2480

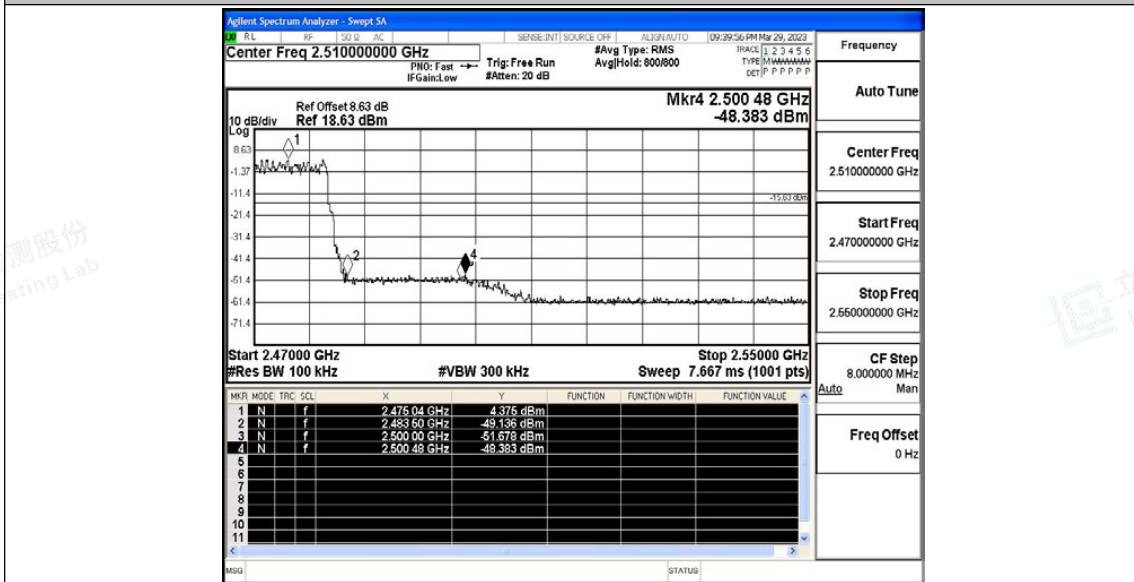


2DH5_Ant1_Low_Hop_2402





2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

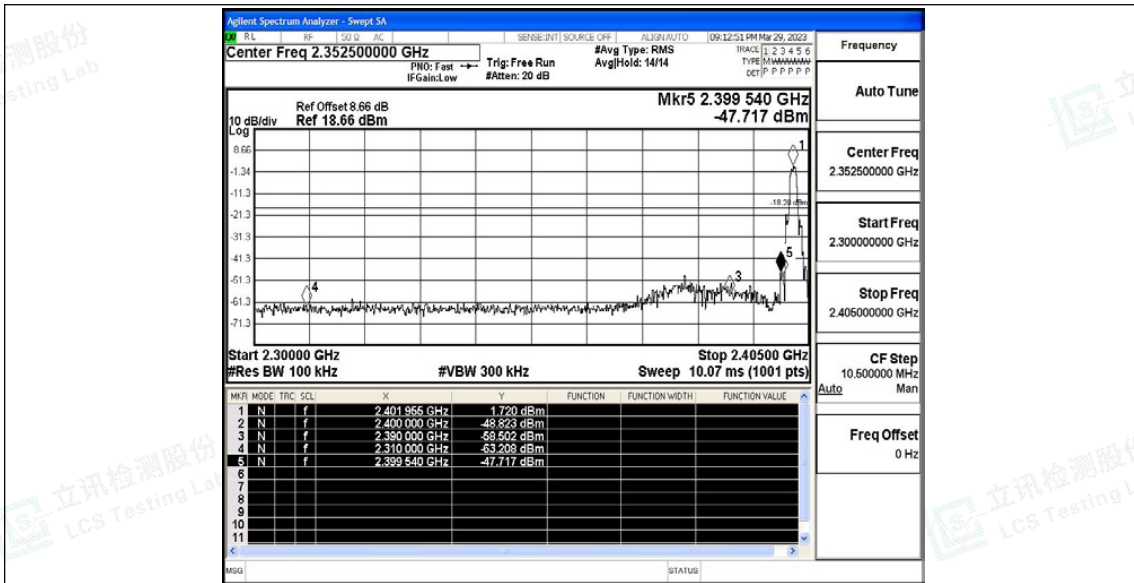


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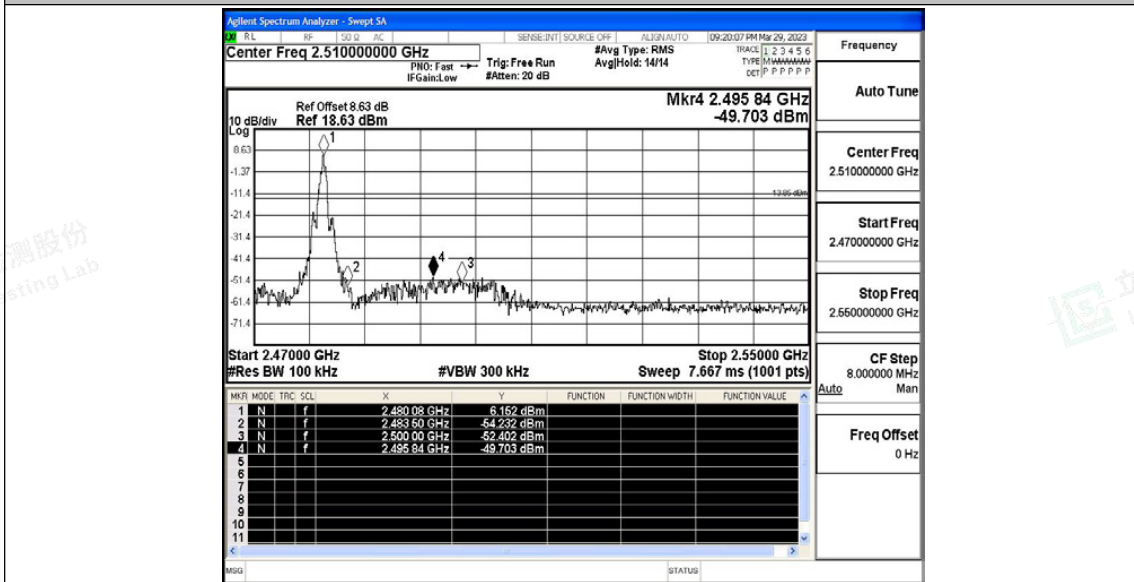
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

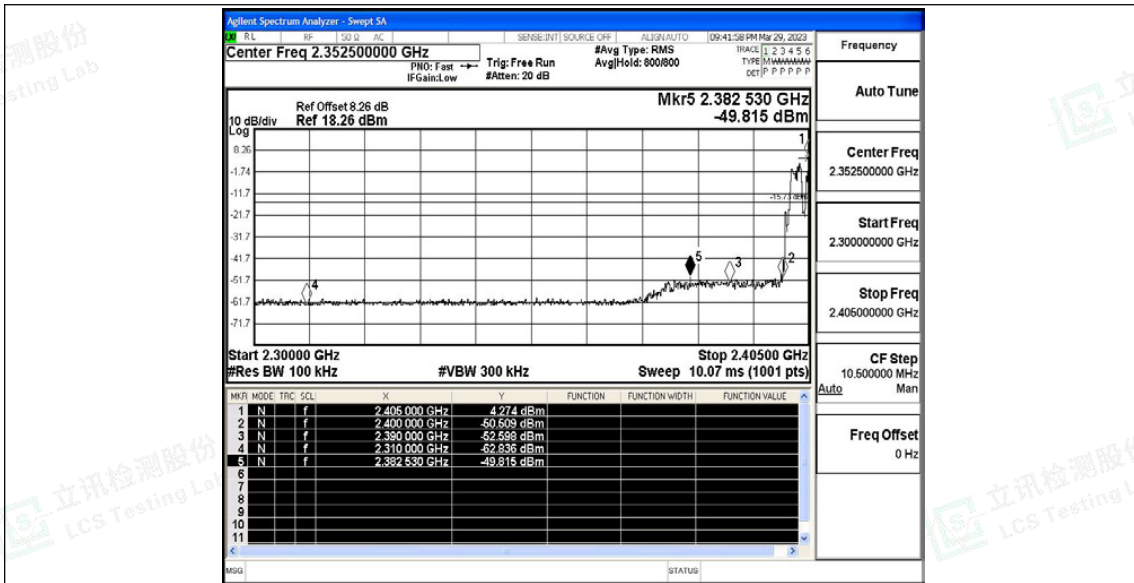


3DH5_Ant1_High_2480

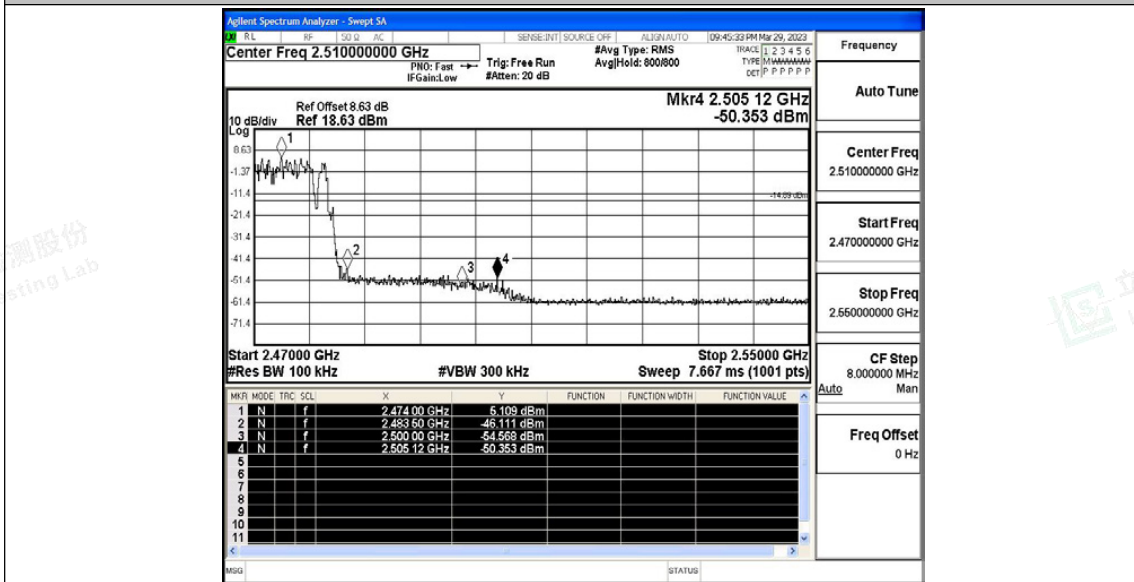


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

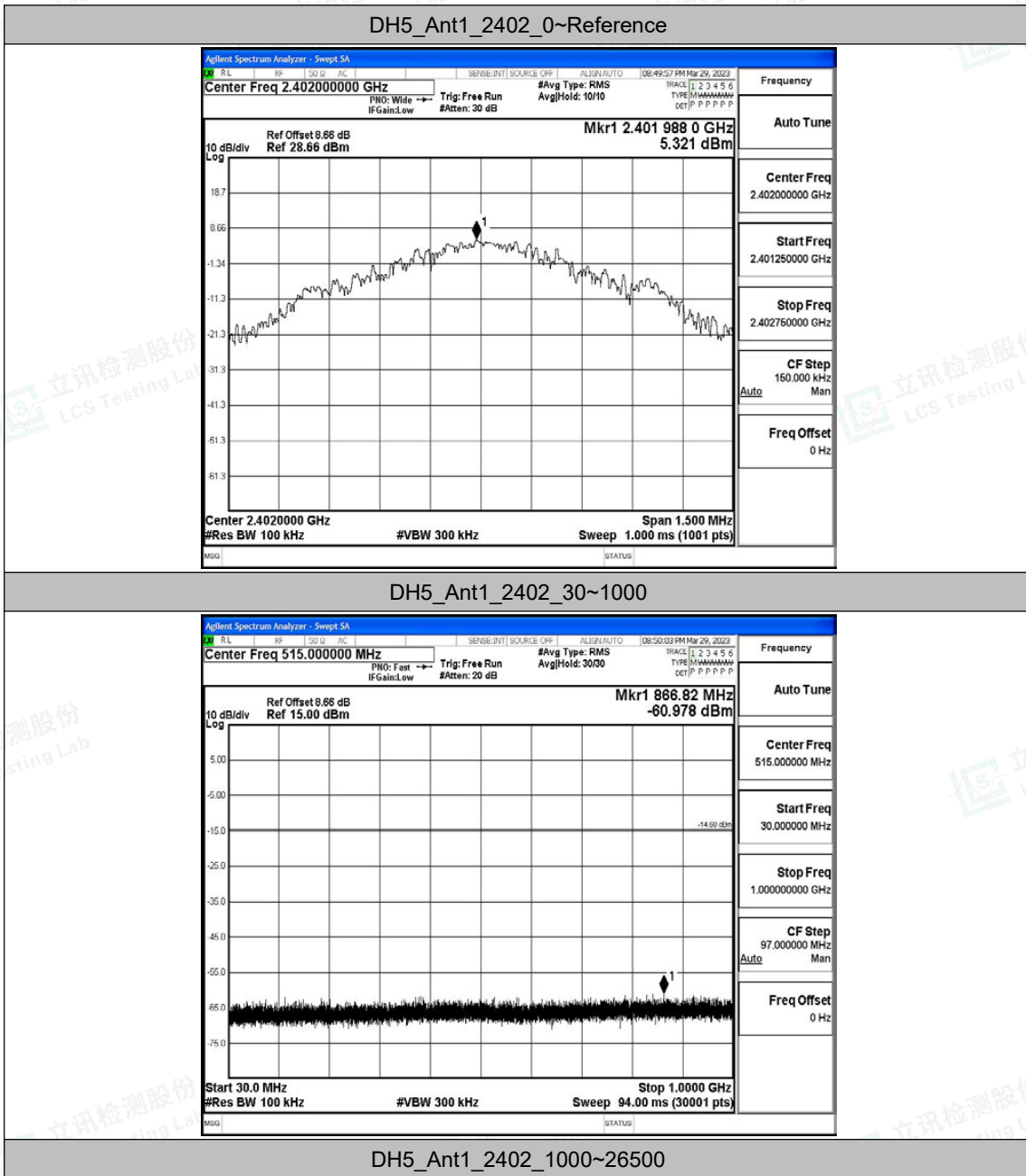
Test Result

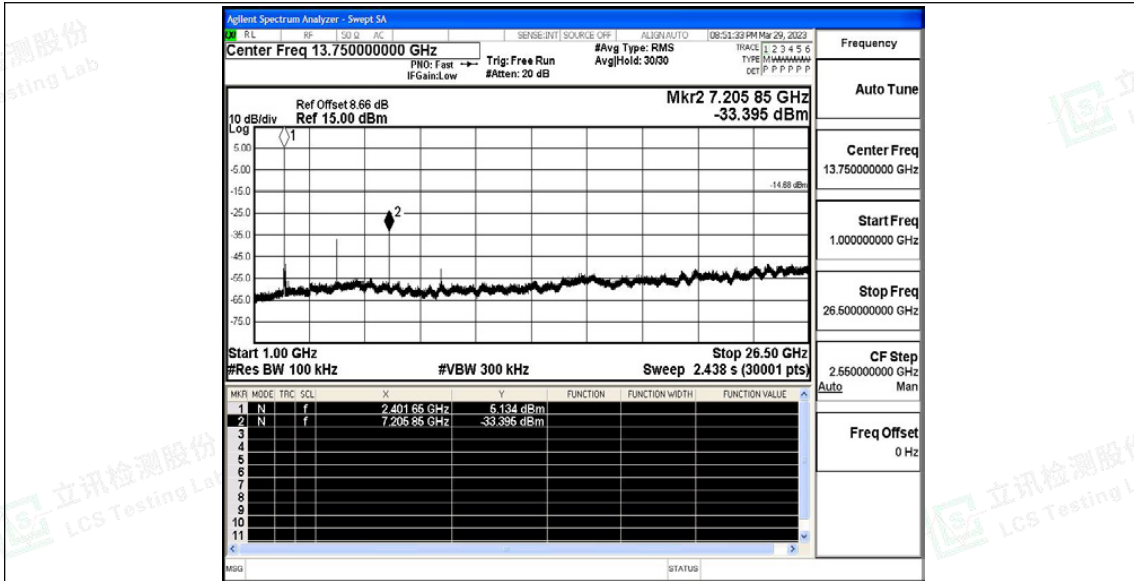
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.32	5.32	---	PASS
			30~1000	5.32	-60.98	≤-14.68	PASS
			1000~26500	5.32	-33.4	≤-14.68	PASS
		2441	Reference	5.35	5.35	---	PASS
			30~1000	5.35	-61.17	≤-14.65	PASS
			1000~26500	5.35	-33.32	≤-14.65	PASS
		2480	Reference	5.62	5.62	---	PASS
			30~1000	5.62	-60.73	≤-14.38	PASS
			1000~26500	5.62	-32.37	≤-14.38	PASS
2DH5	Ant1	2402	Reference	5.16	5.16	---	PASS
			30~1000	5.16	-60.16	≤-14.84	PASS
			1000~26500	5.16	-36.1	≤-14.84	PASS
		2441	Reference	3.71	3.71	---	PASS
			30~1000	3.71	-60.73	≤-16.29	PASS
			1000~26500	3.71	-35.78	≤-16.29	PASS
		2480	Reference	5.96	5.96	---	PASS
			30~1000	5.96	-60.82	≤-14.04	PASS
			1000~26500	5.96	-35.47	≤-14.04	PASS
3DH5	Ant1	2402	Reference	5.45	5.45	---	PASS
			30~1000	5.45	-61.17	≤-14.55	PASS
			1000~26500	5.45	-33.91	≤-14.55	PASS
		2441	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-60.49	≤-17.44	PASS
			1000~26500	2.56	-33.76	≤-17.44	PASS
		2480	Reference	5.96	5.96	---	PASS
			30~1000	5.96	-60.92	≤-14.04	PASS
			1000~26500	5.96	-35.43	≤-14.04	PASS



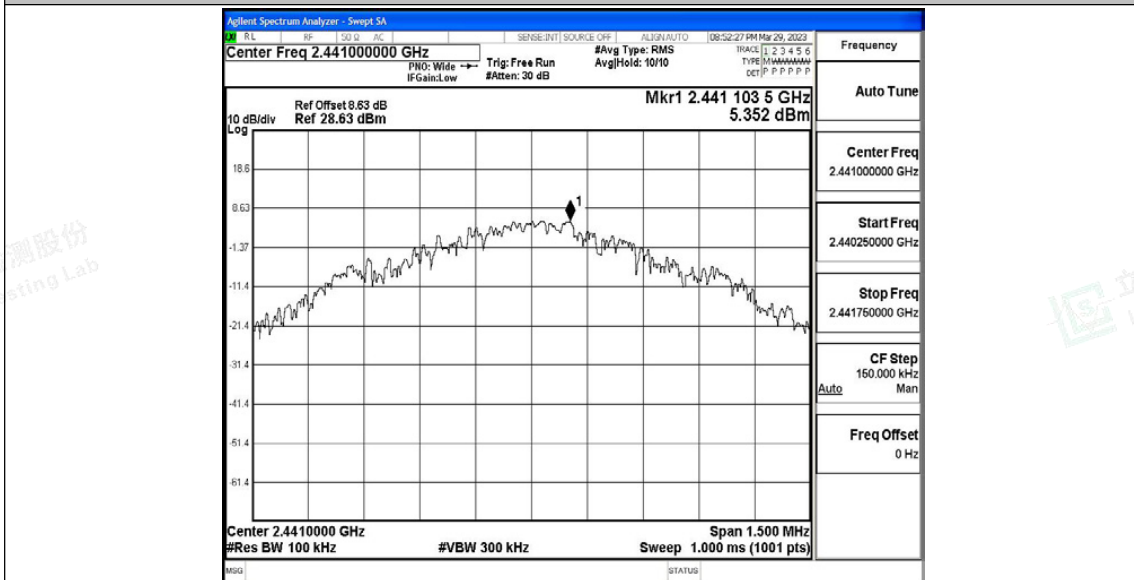


Test Graphs



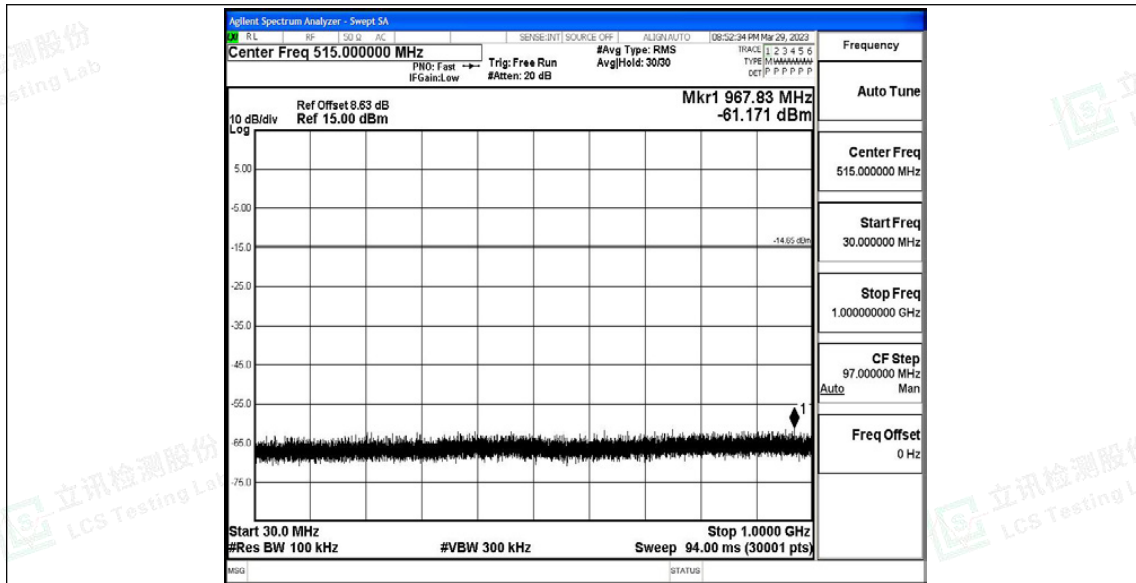


DH5_Ant1_2441_0~Reference

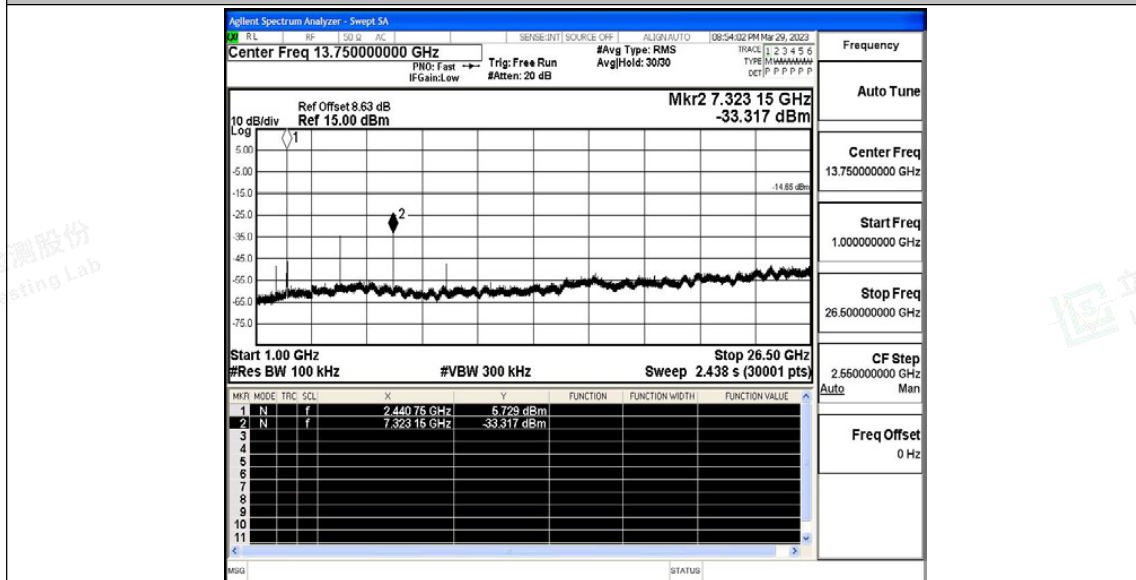


DH5_Ant1_2441_30~1000



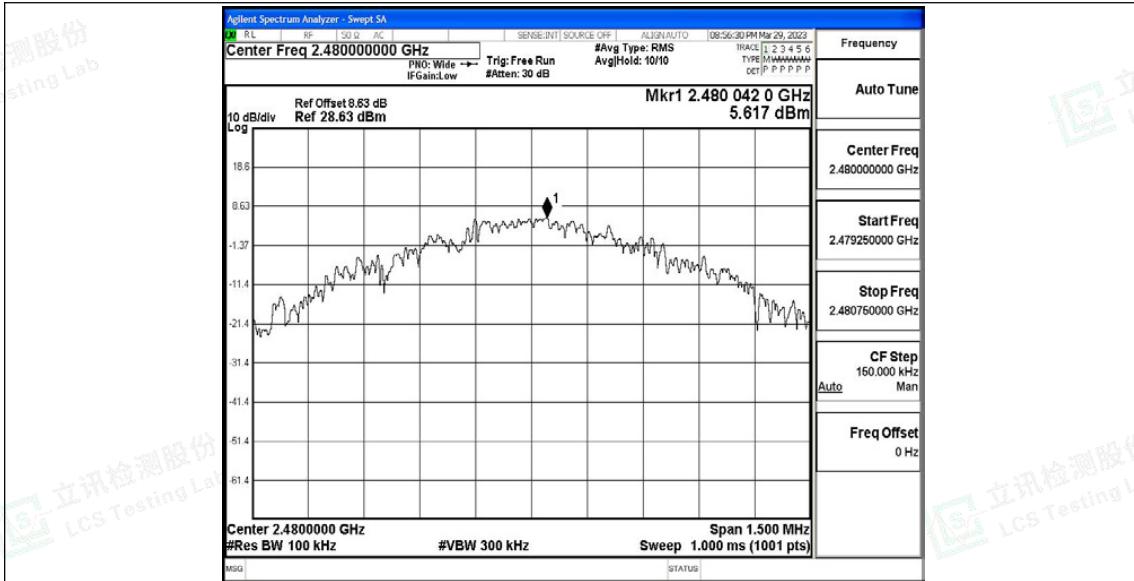


DH5_Ant1_2441_1000~26500

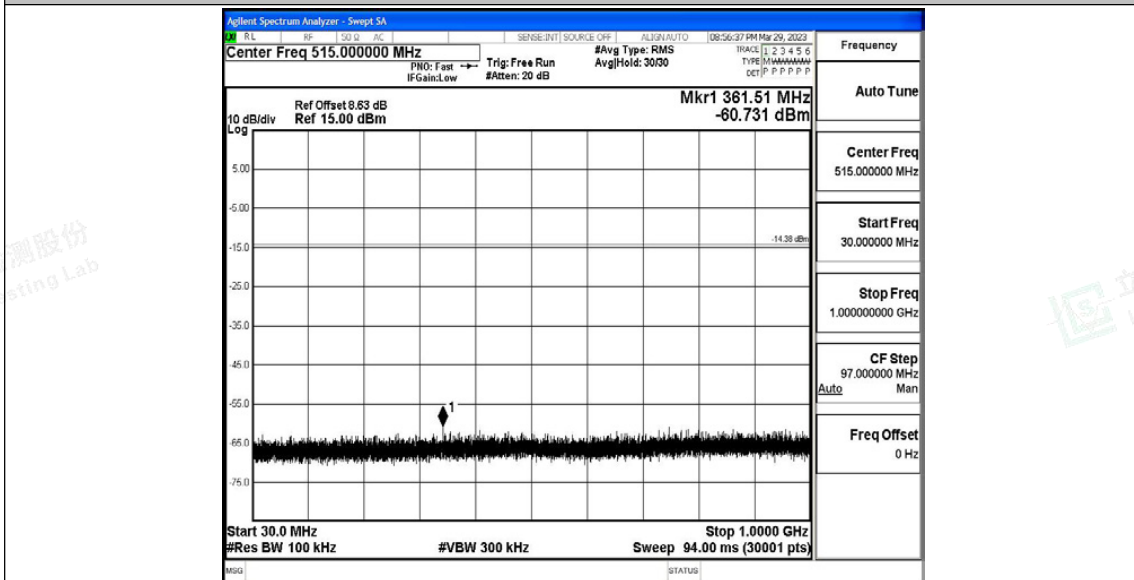


DH5_Ant1_2480_0~Reference



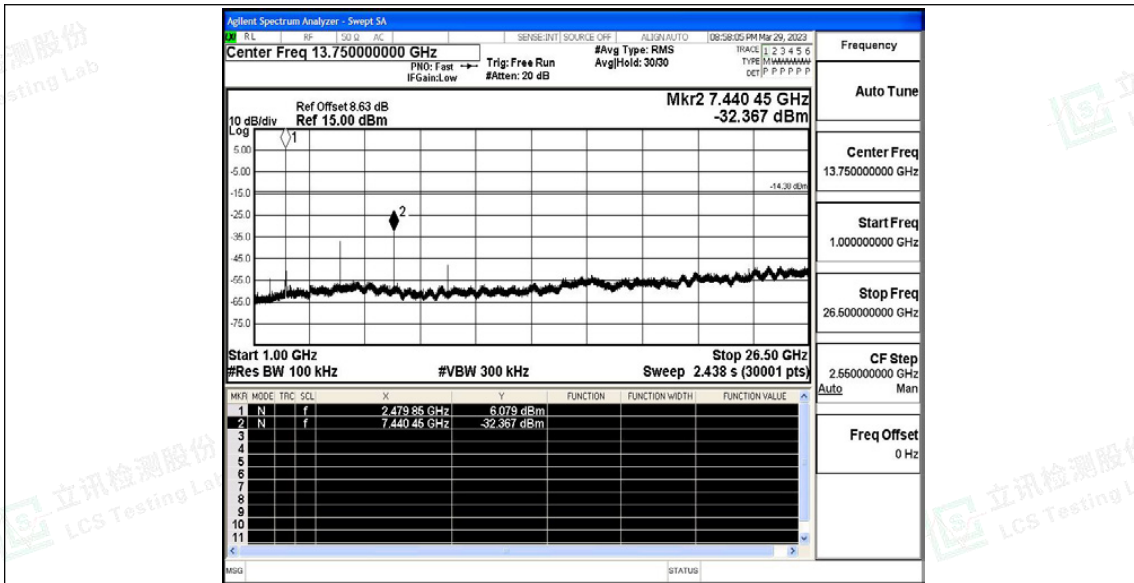


DH5_Ant1_2480_30~1000

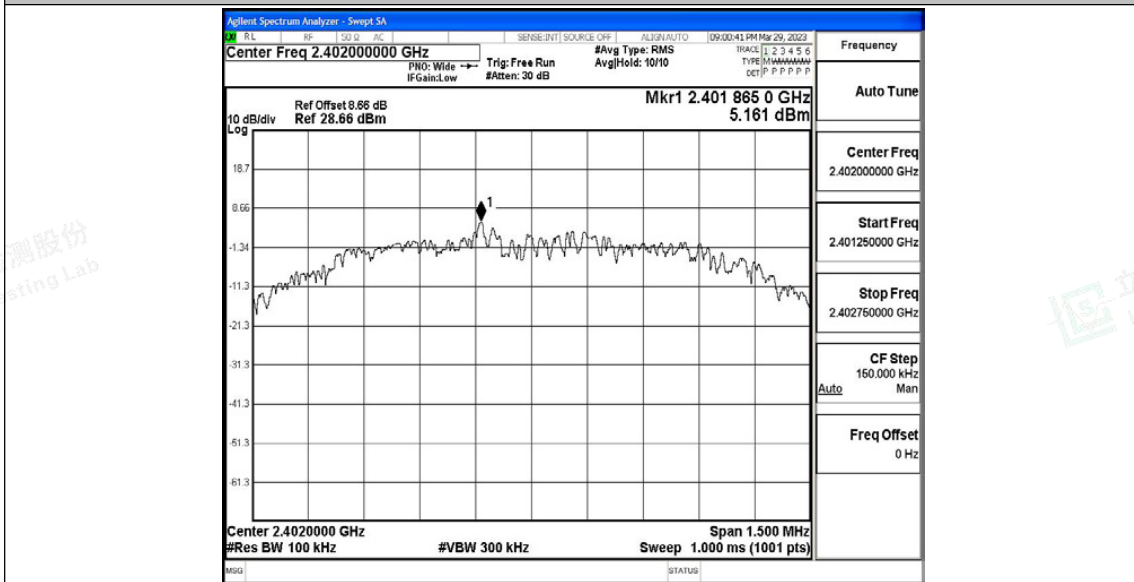


DH5_Ant1_2480_1000~26500



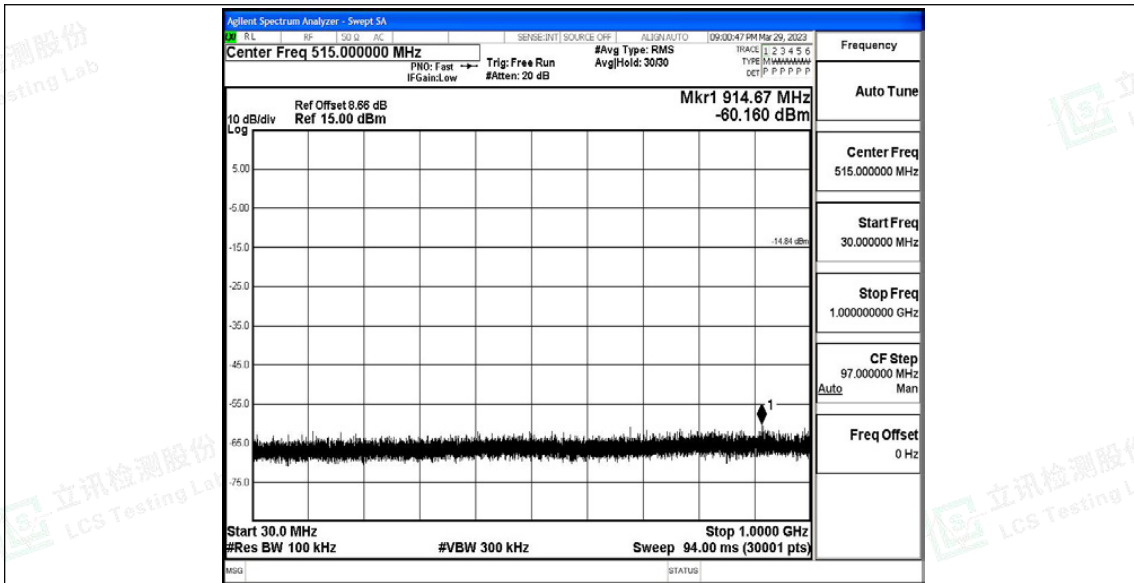


2DH5_Ant1_2402_0~Reference

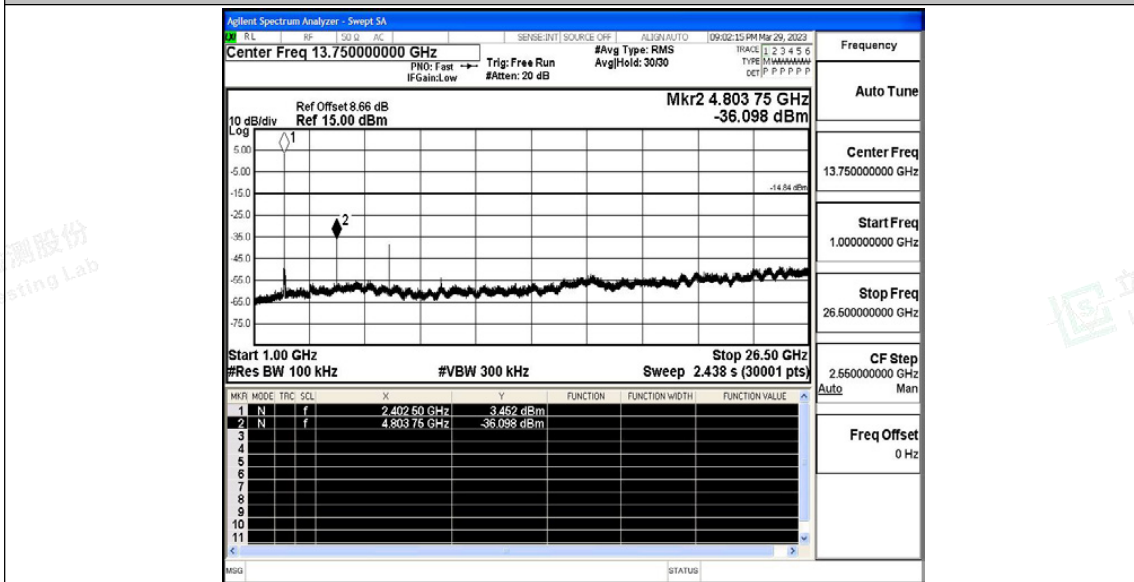


2DH5_Ant1_2402_30~1000





2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

