



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Urbanista Lisbon

Test Model: Urbanista Lisbon

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>Li Huan</i> Li Huan





A.1 20dB Emission Bandwidth

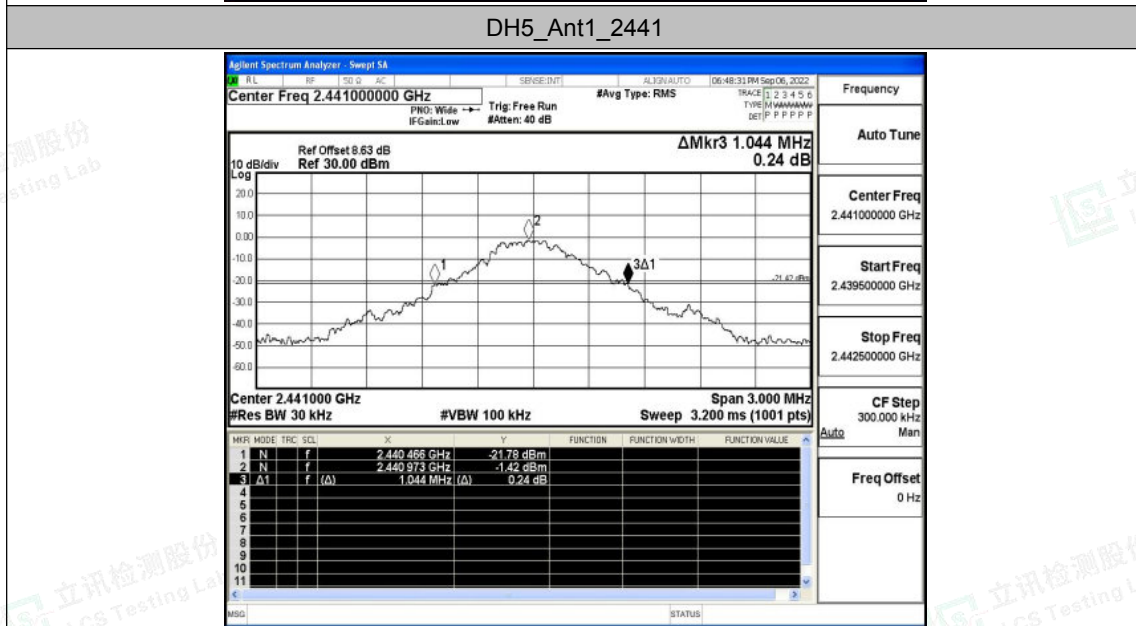
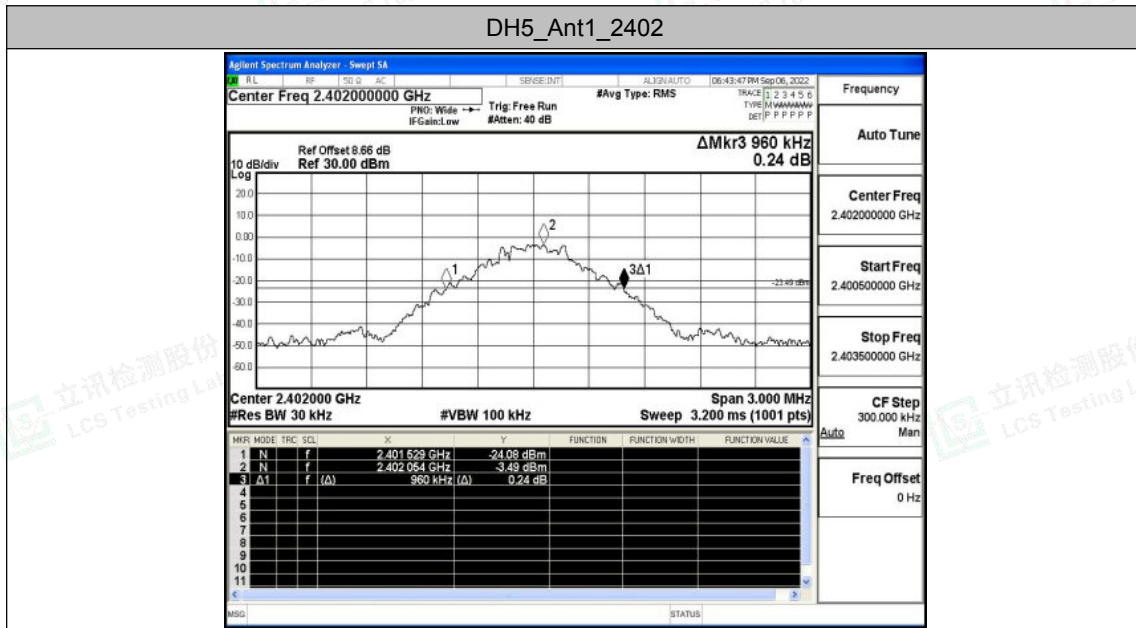
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.960	2401.529	2402.489	PASS
		2441	1.044	2440.466	2441.510	PASS
		2480	1.032	2479.478	2480.510	PASS
2DH5	Ant1	2402	1.356	2401.328	2402.684	PASS
		2441	1.383	2440.301	2441.684	PASS
		2480	1.413	2479.307	2480.720	PASS
3DH5	Ant1	2402	1.281	2401.367	2402.648	PASS
		2441	1.335	2440.328	2441.663	PASS
		2480	1.287	2479.364	2480.651	PASS



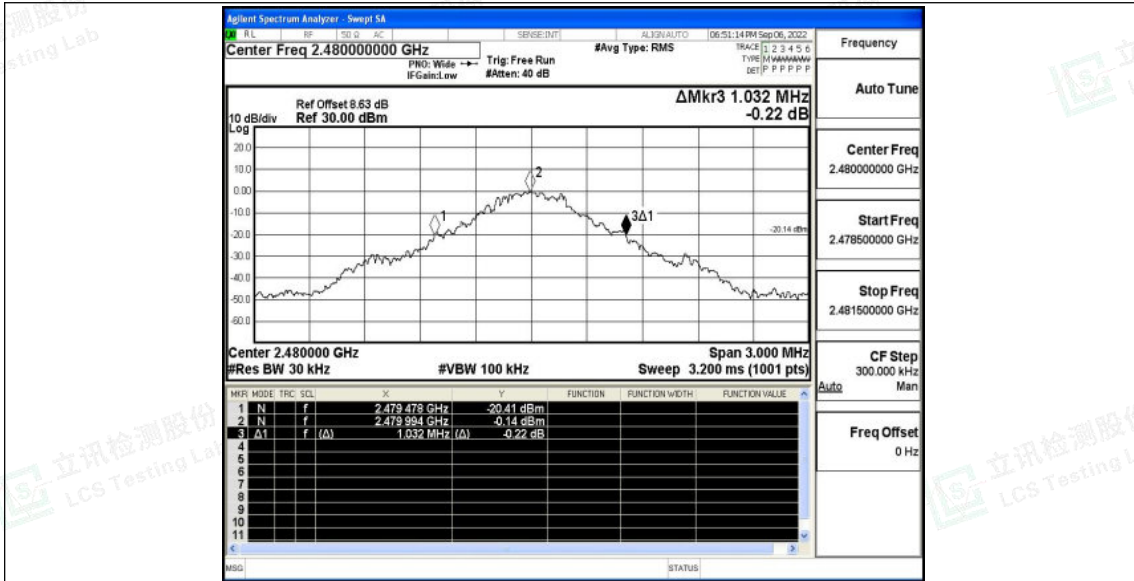


Test Graphs

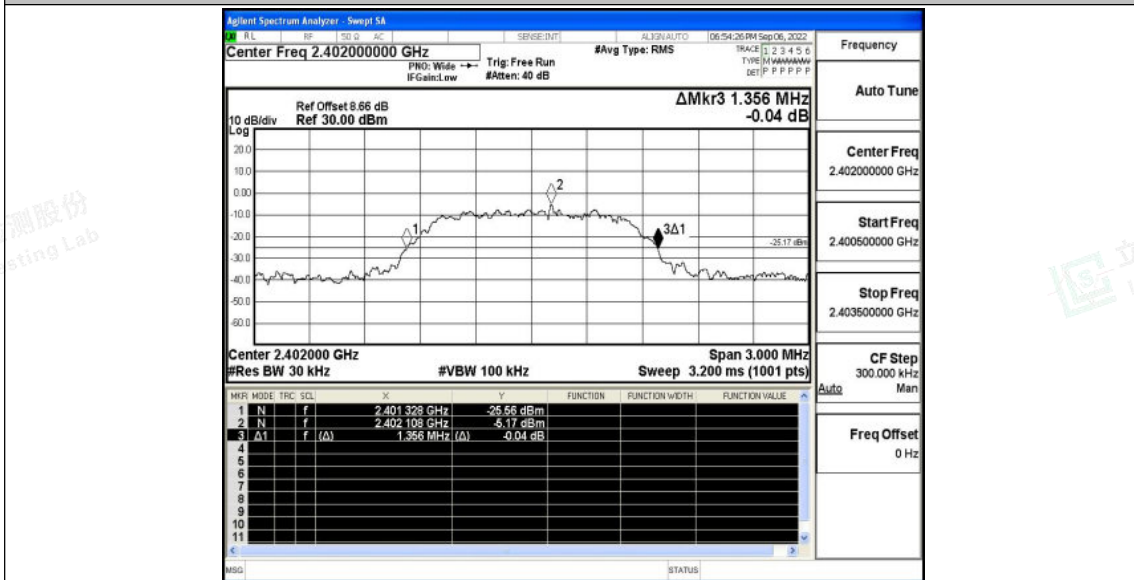


DH5_Ant1_2480



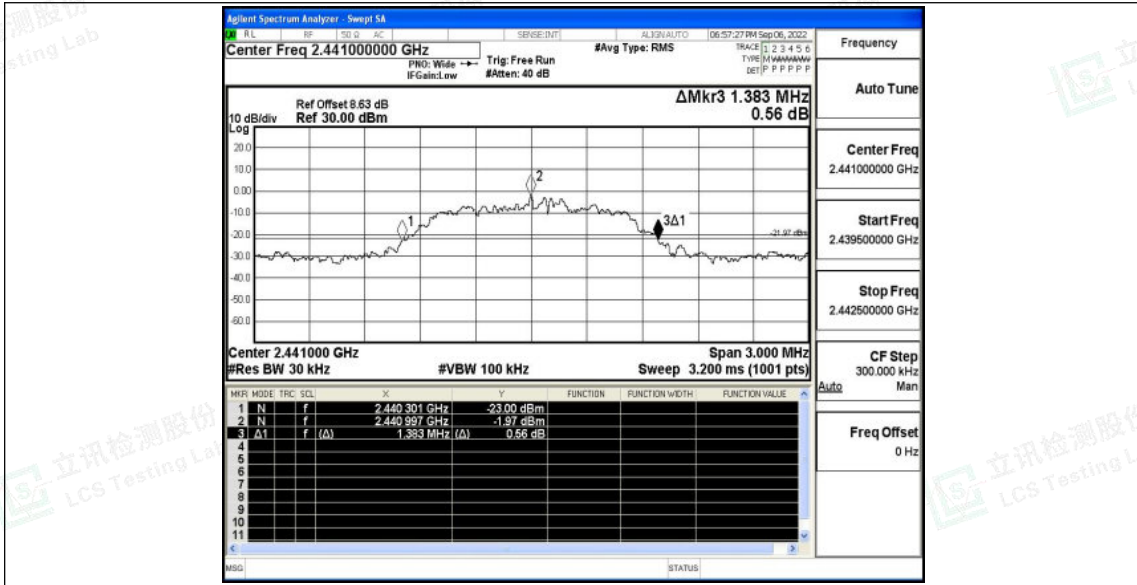


2DH5_Ant1_2402

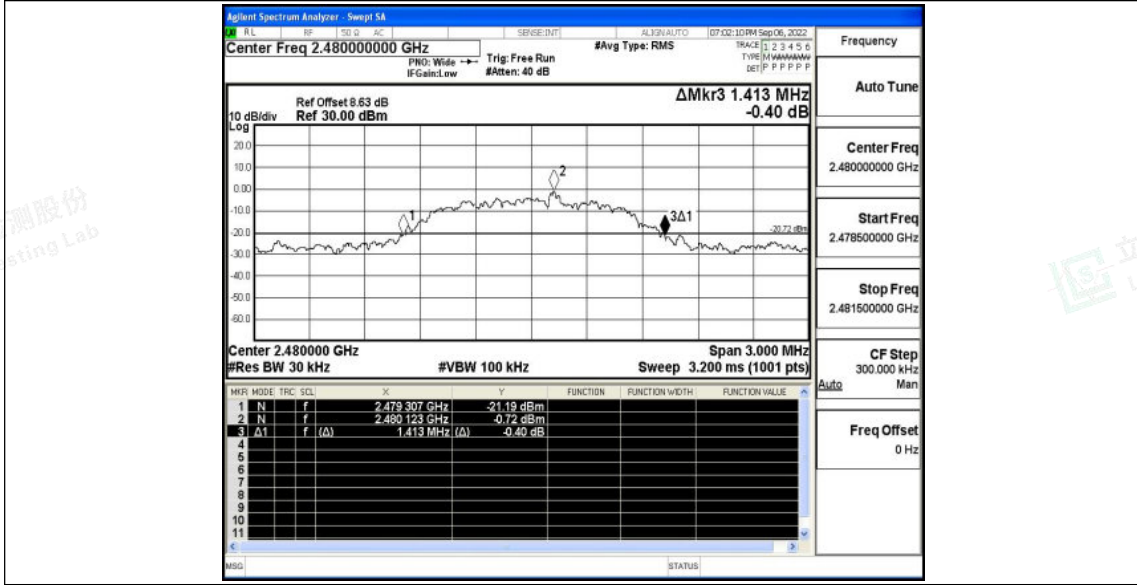


2DH5_Ant1_2441



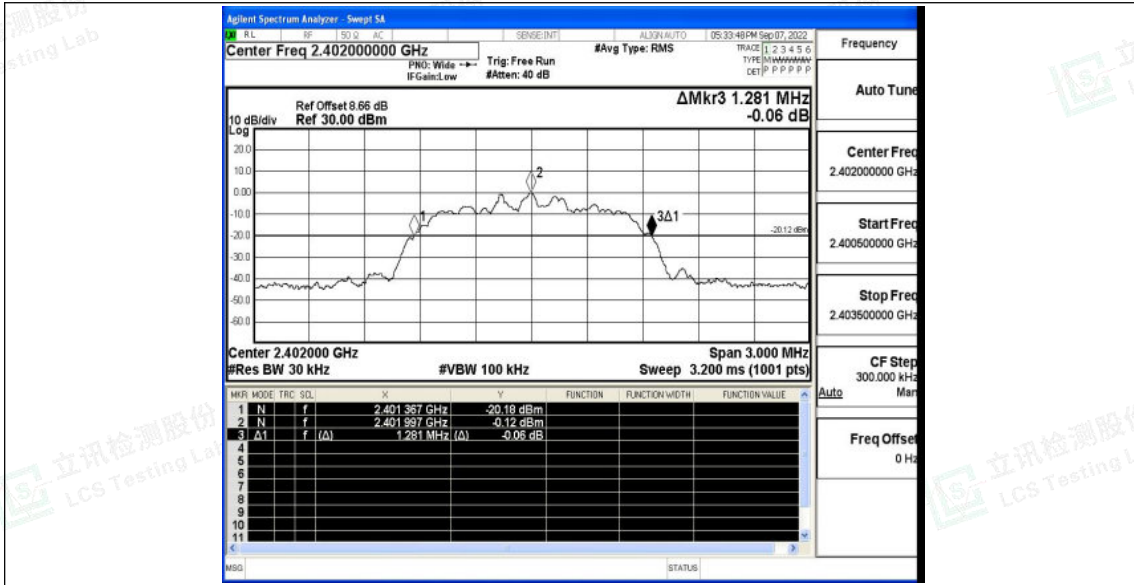


2D H5_Ant1_2480

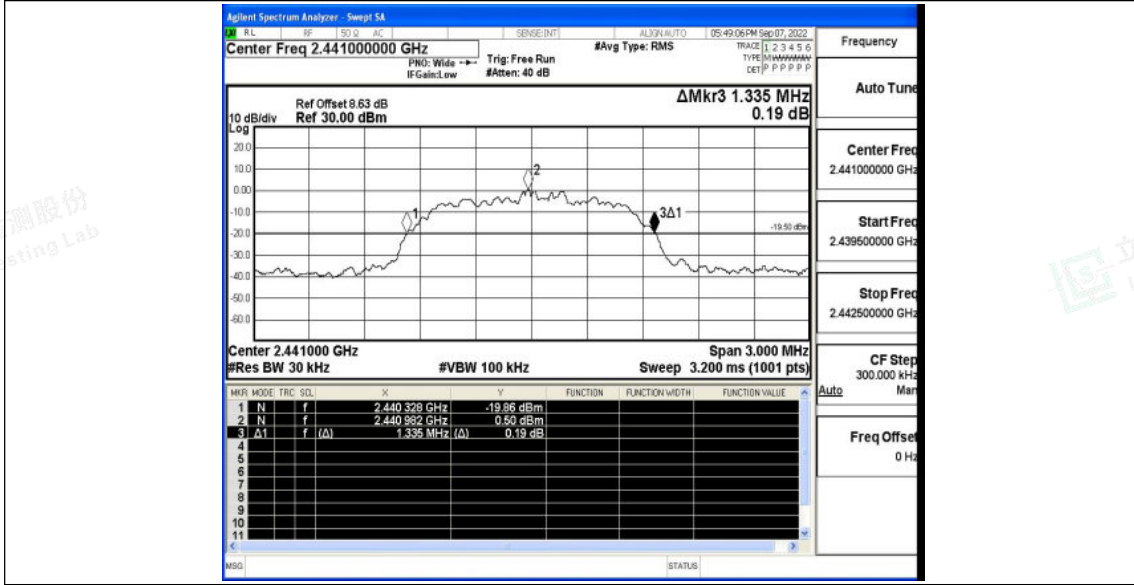


3D H5_Ant1_2402



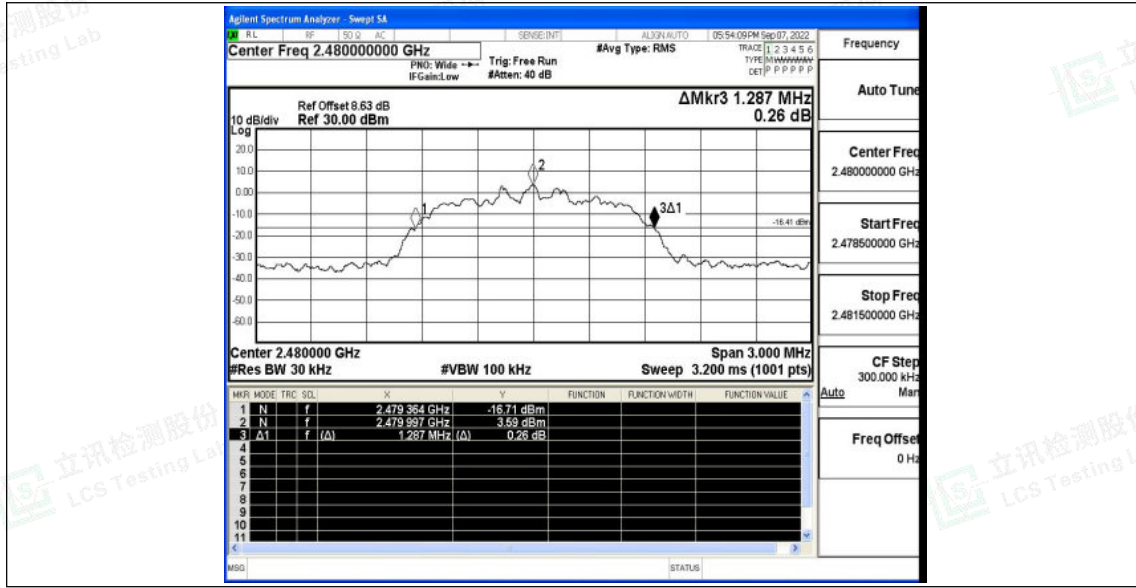


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Occupied Channel Bandwidth

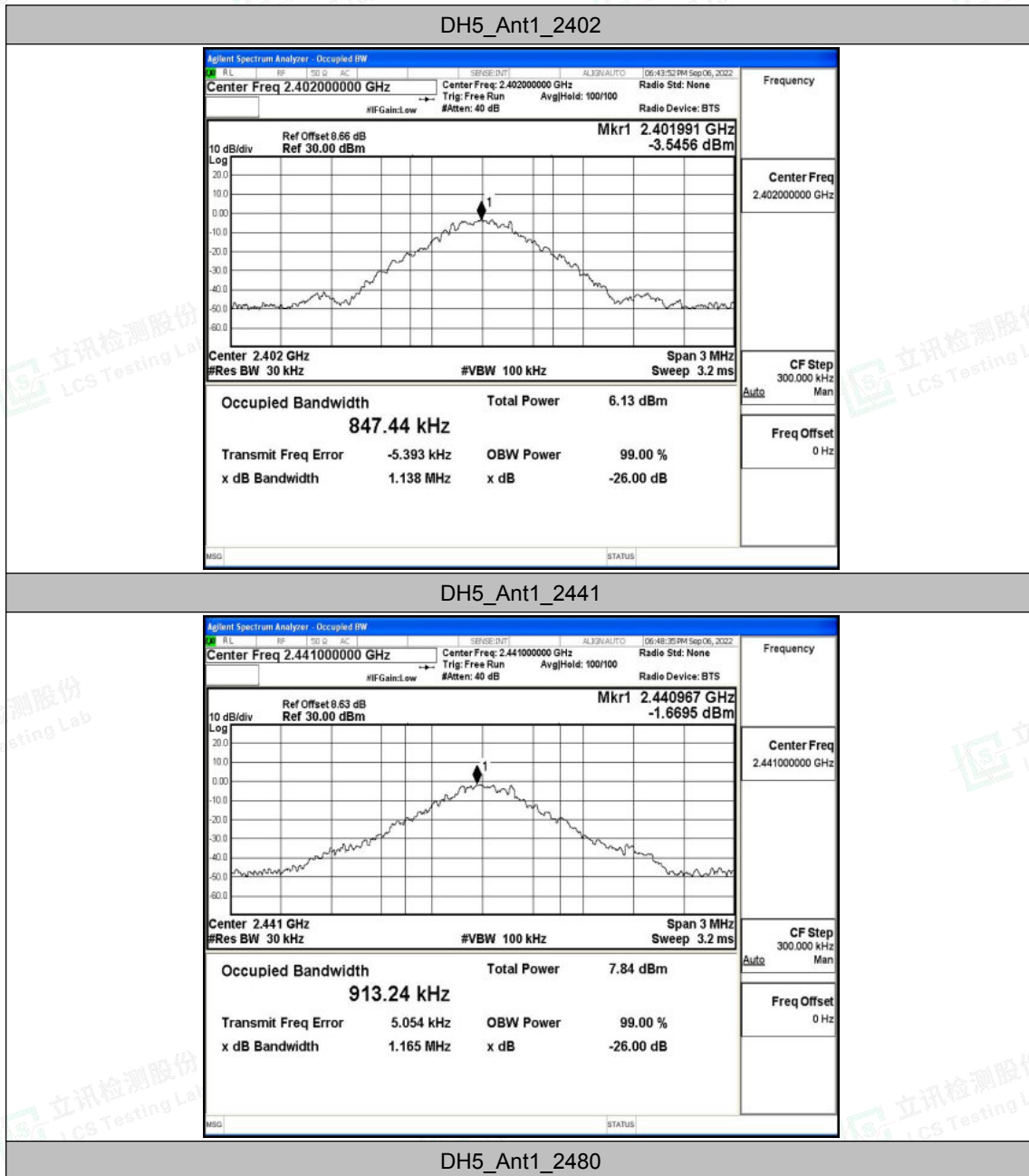
Test Result

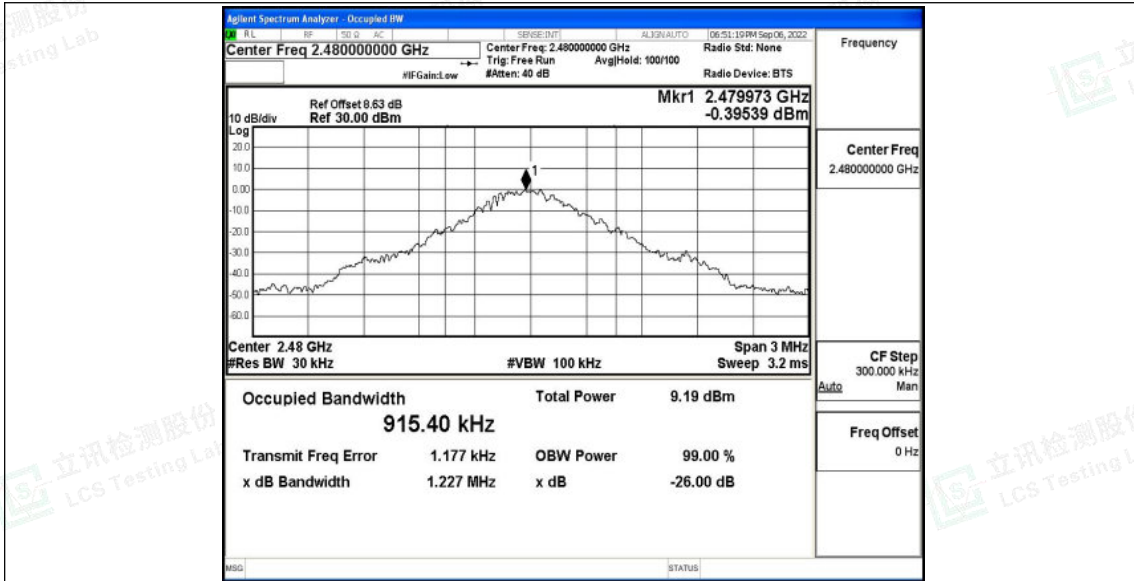
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.84744	2401.5709	2402.4183	---	PASS
		2441	0.91324	2440.5484	2441.4617	---	PASS
		2480	0.91540	2479.5435	2480.4589	---	PASS
2DH5	Ant1	2402	1.2071	2401.4011	2402.6082	---	PASS
		2441	1.3710	2440.3233	2441.6943	---	PASS
		2480	1.8225	2479.0792	2480.9017	---	PASS
3DH5	Ant1	2402	1.1583	2401.4172	2402.5755	---	PASS
		2441	2.9707	2439.5142	2442.4849	---	PASS
		2480	1.1731	2479.4093	2480.5824	---	PASS



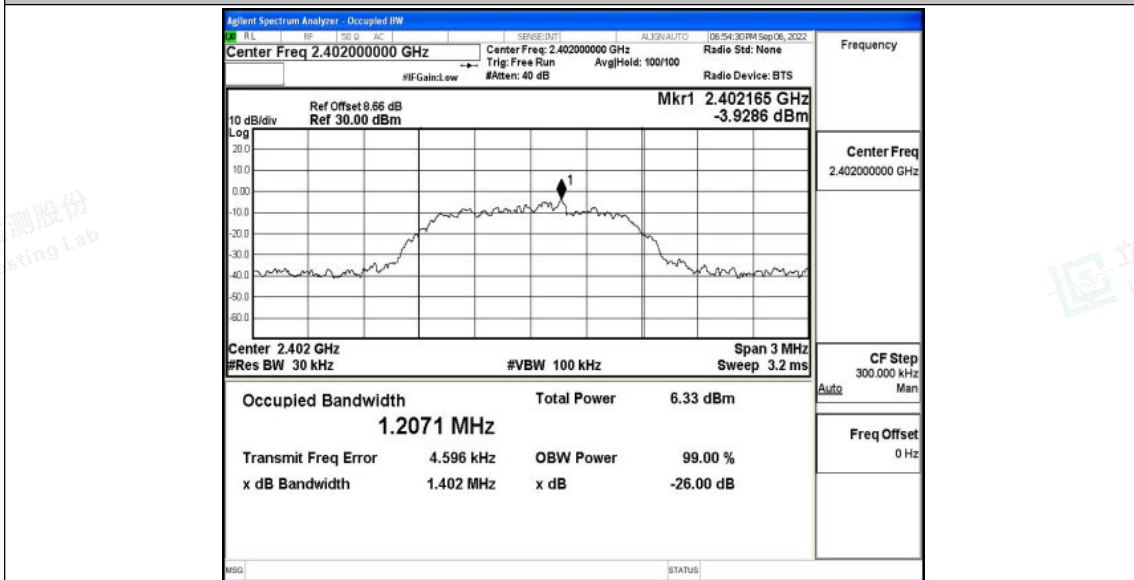


Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



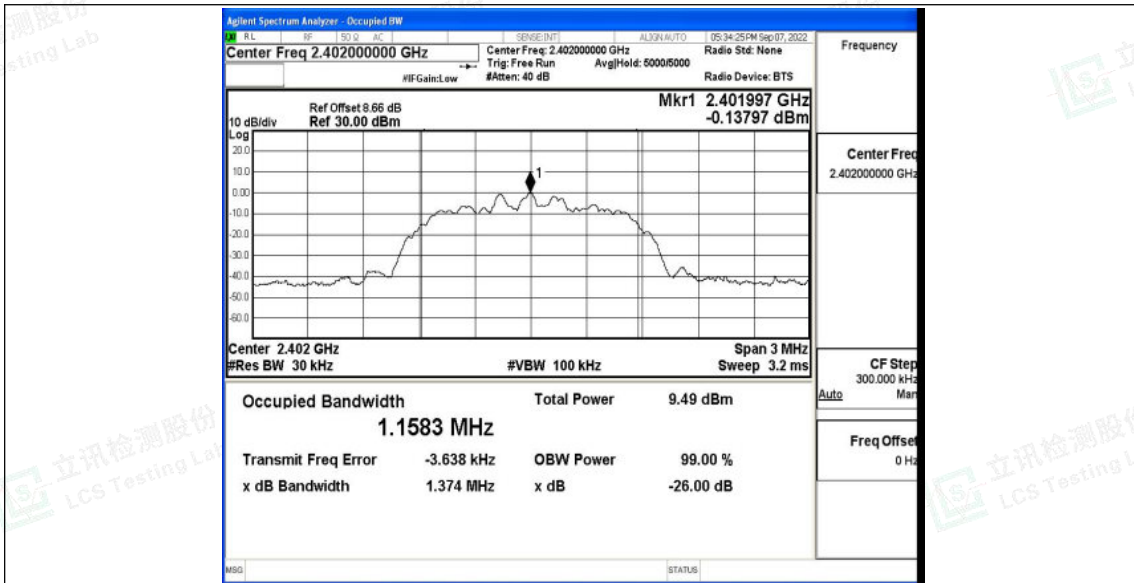


2DH5_Ant1_2480

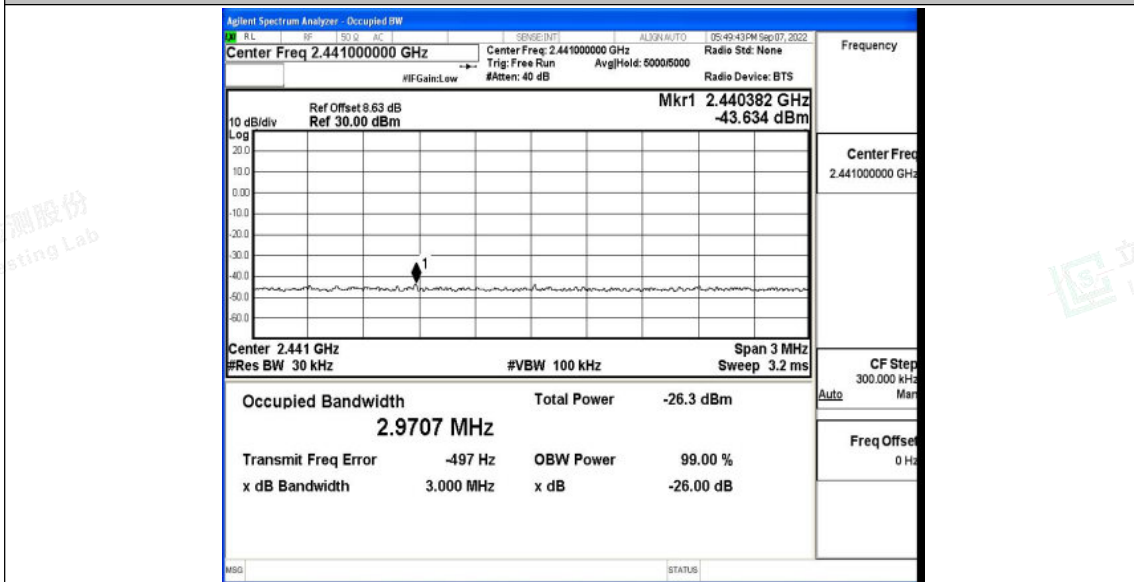


3DH5_Ant1_2402



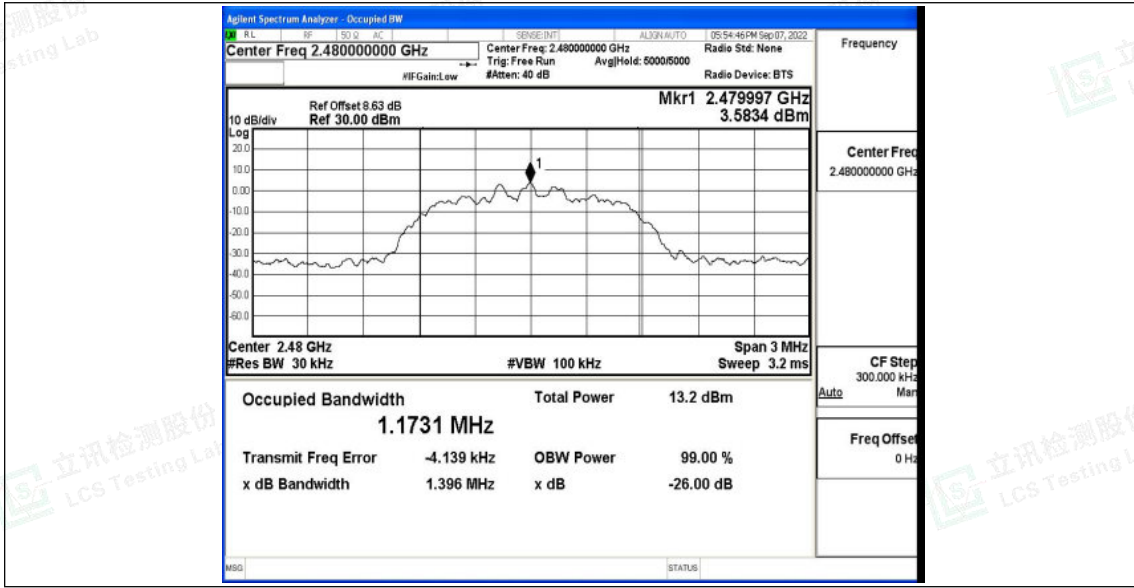


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Maximum conducted output power

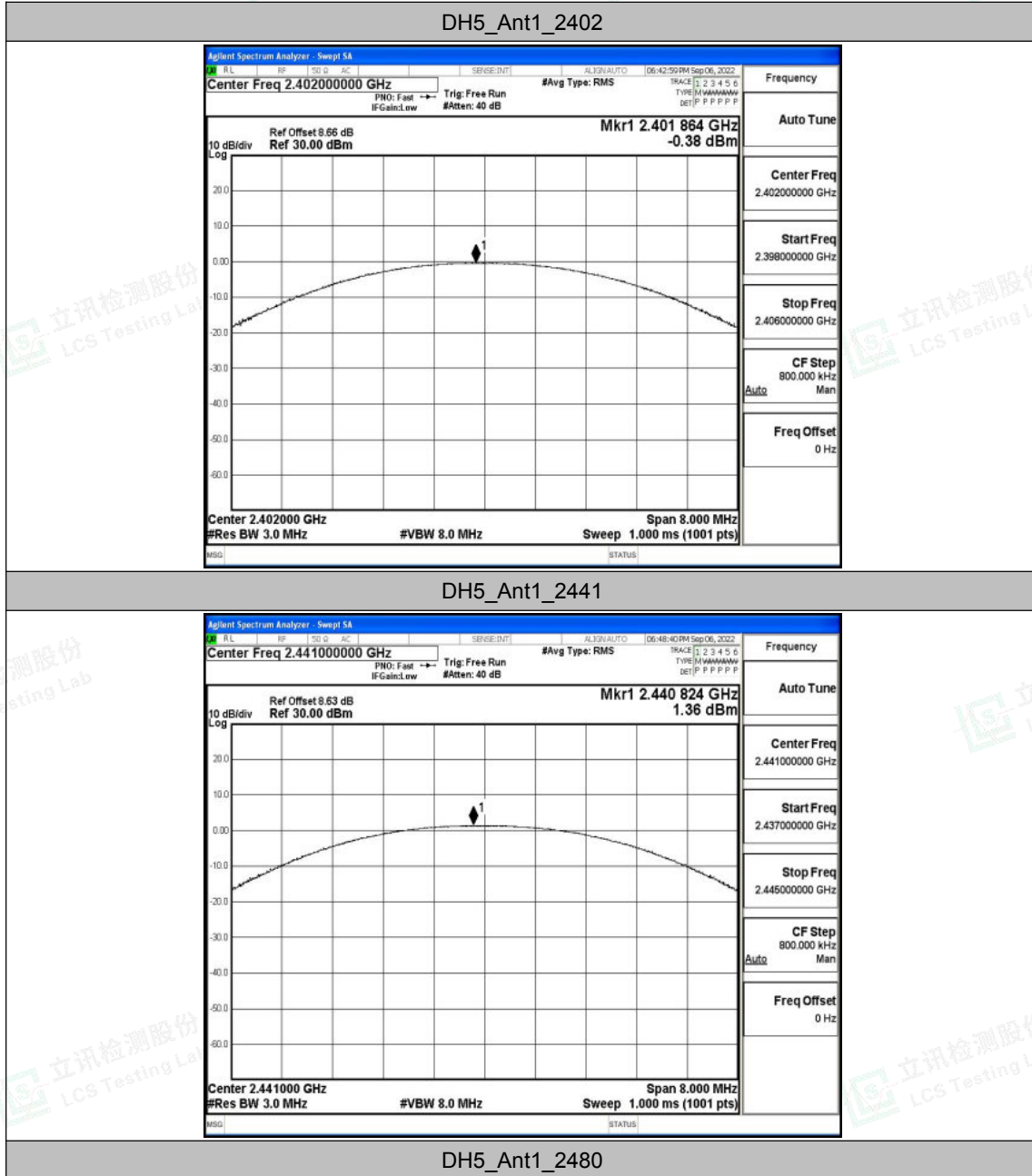
Test Result

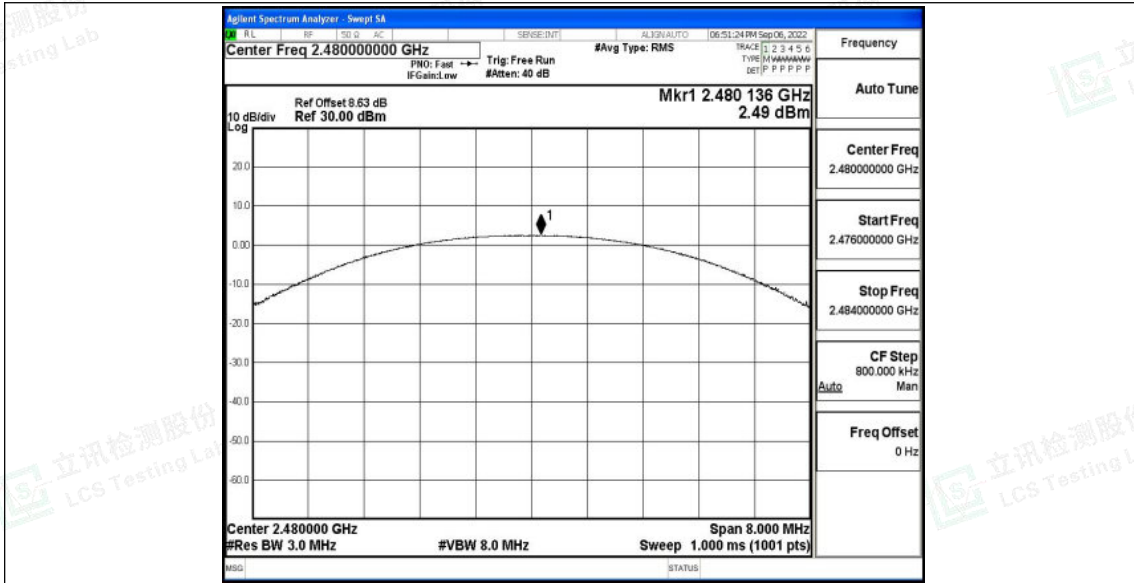
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.38	≤20.97	PASS
		2441	1.36	≤20.97	PASS
		2480	2.49	≤20.97	PASS
2DH5	Ant1	2402	1.25	≤20.97	PASS
		2441	1.9	≤20.97	PASS
		2480	2.84	≤20.97	PASS
3DH5	Ant1	2402	2.4	≤20.97	PASS
		2441	0.65	≤20.97	PASS
		2480	0.58	≤20.97	PASS



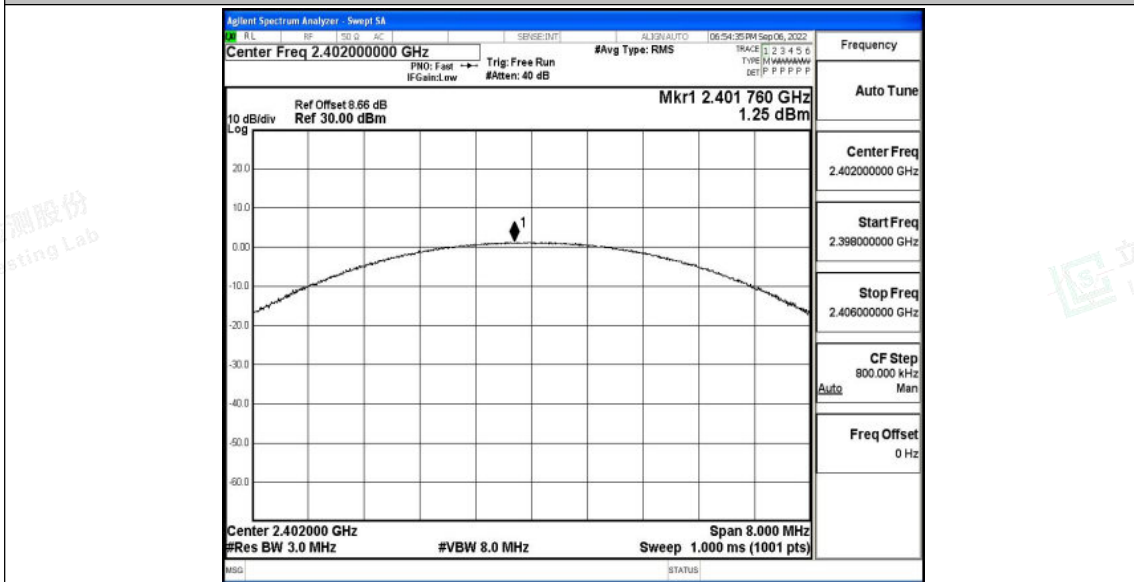


Test Graphs



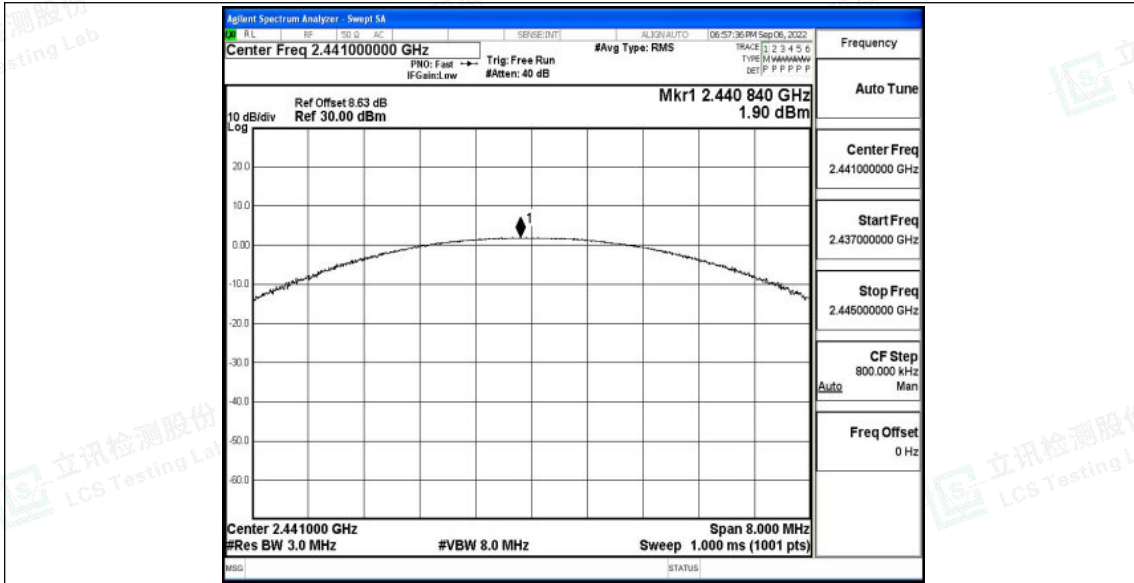


2DH5_Ant1_2402

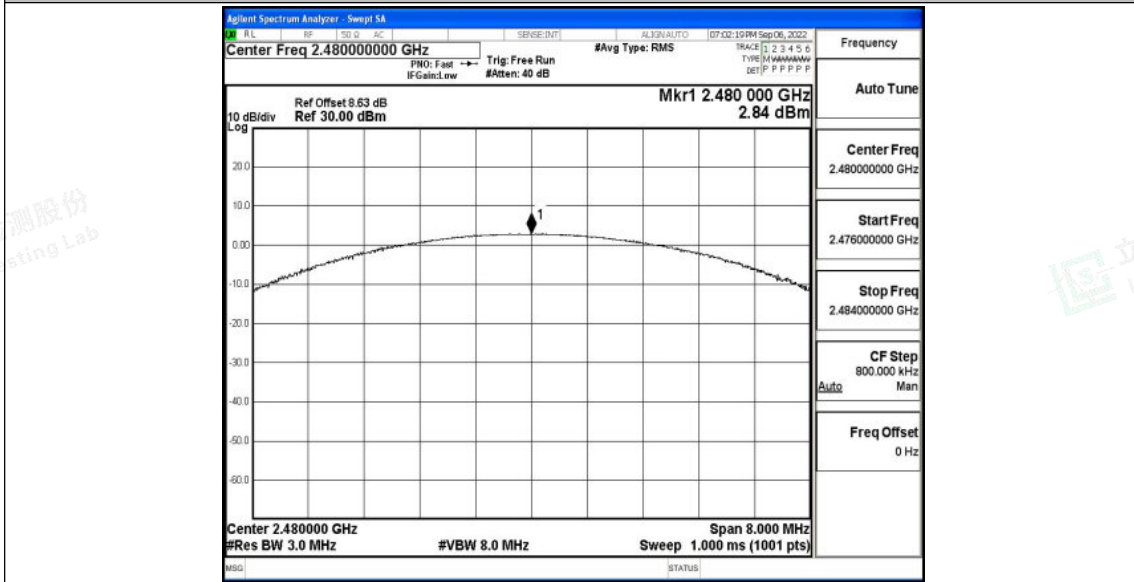


2DH5_Ant1_2441



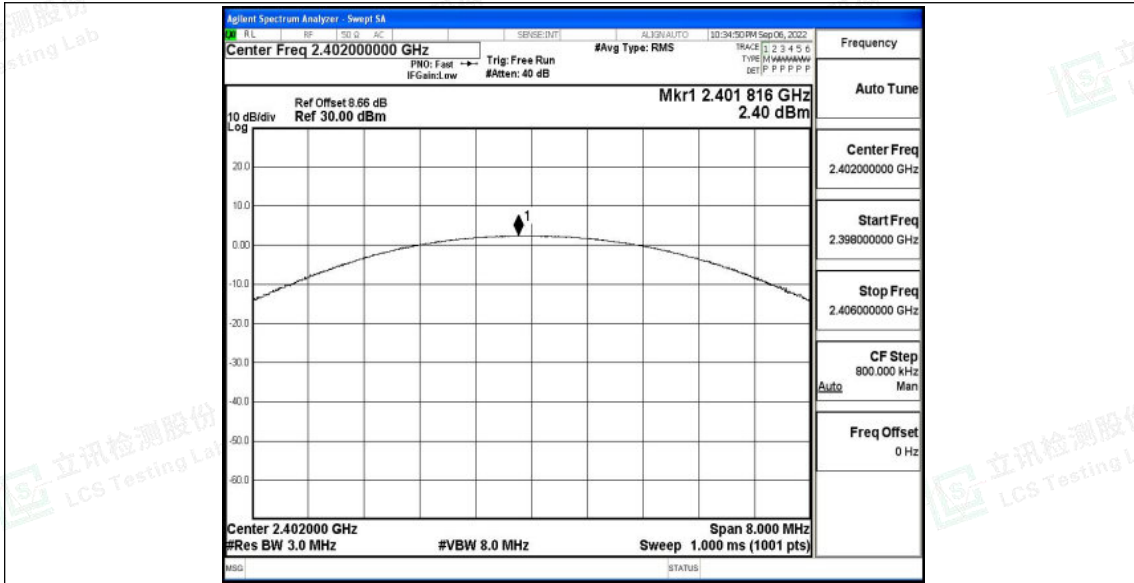


2DH5_Ant1_2480

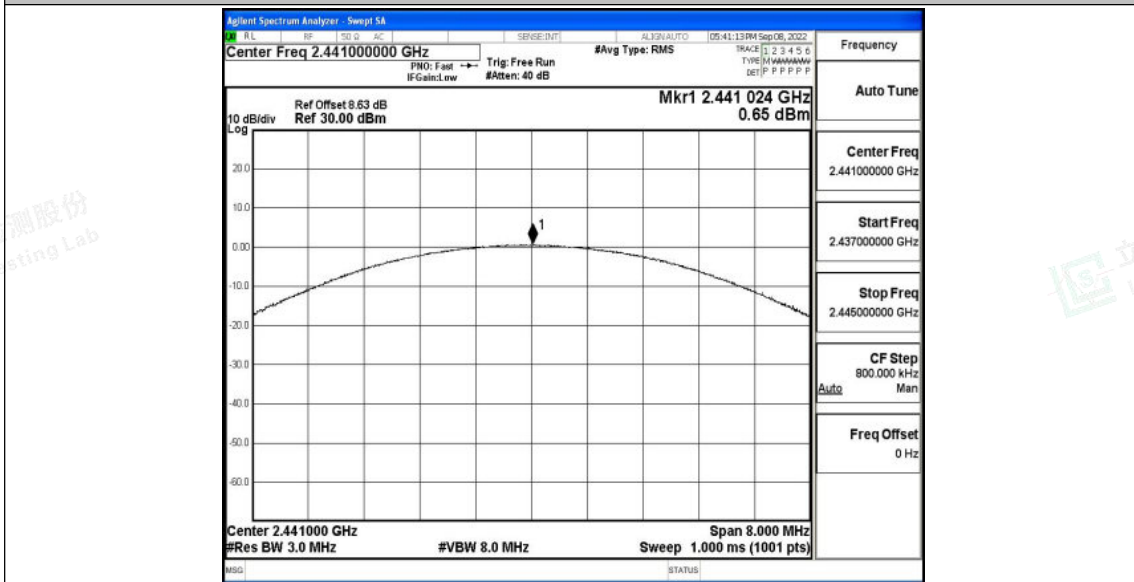


3DH5_Ant1_2402



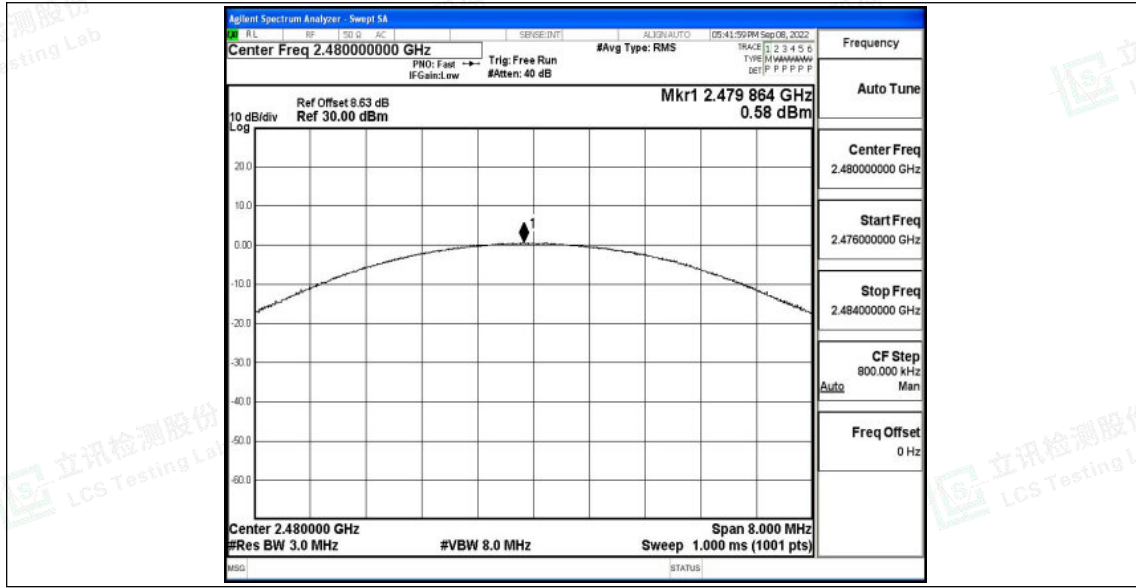


3DH5_Ant1_2441



3DH5_Ant1_2480







A.4 Carrier frequency separation

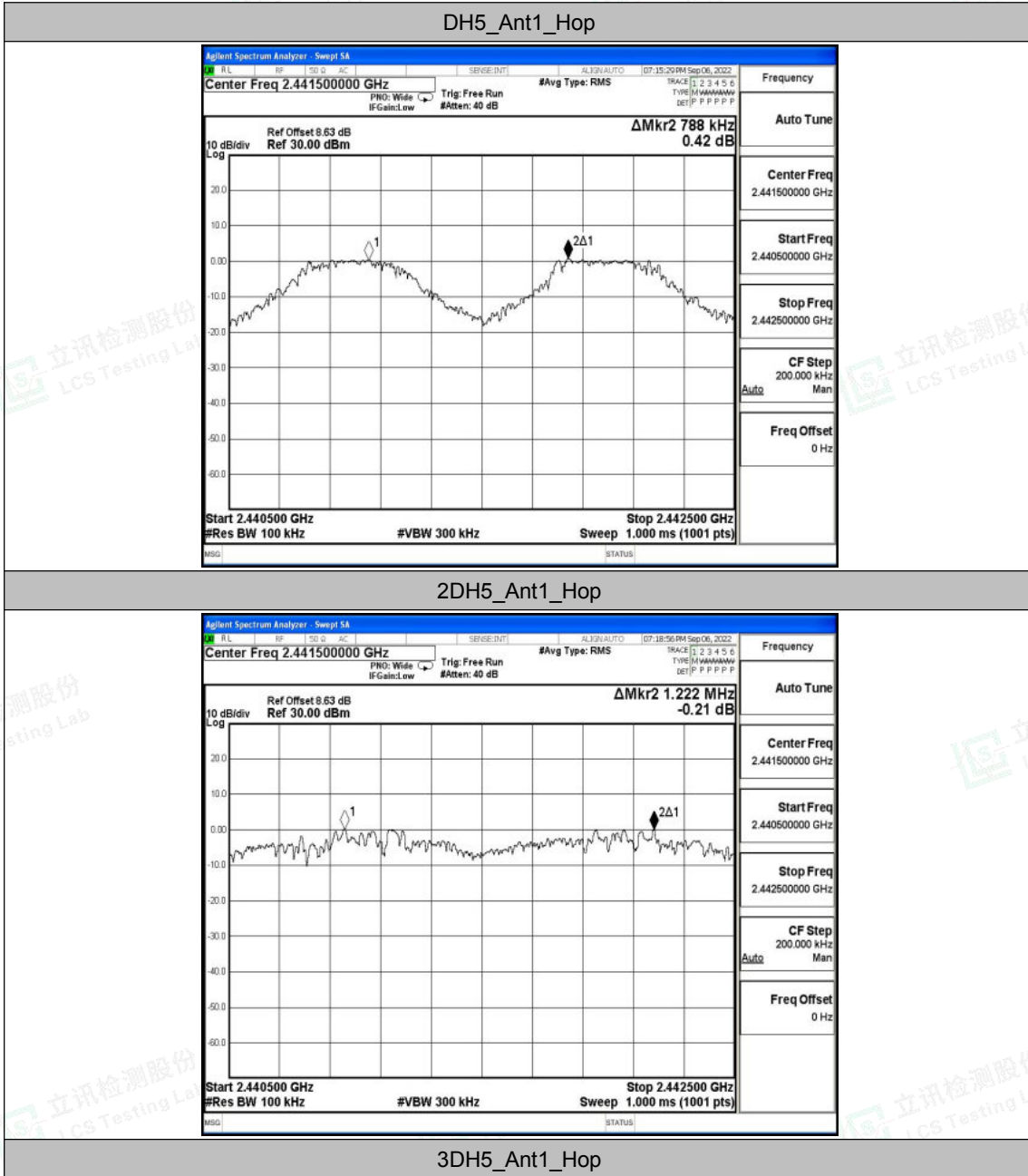
Test Result

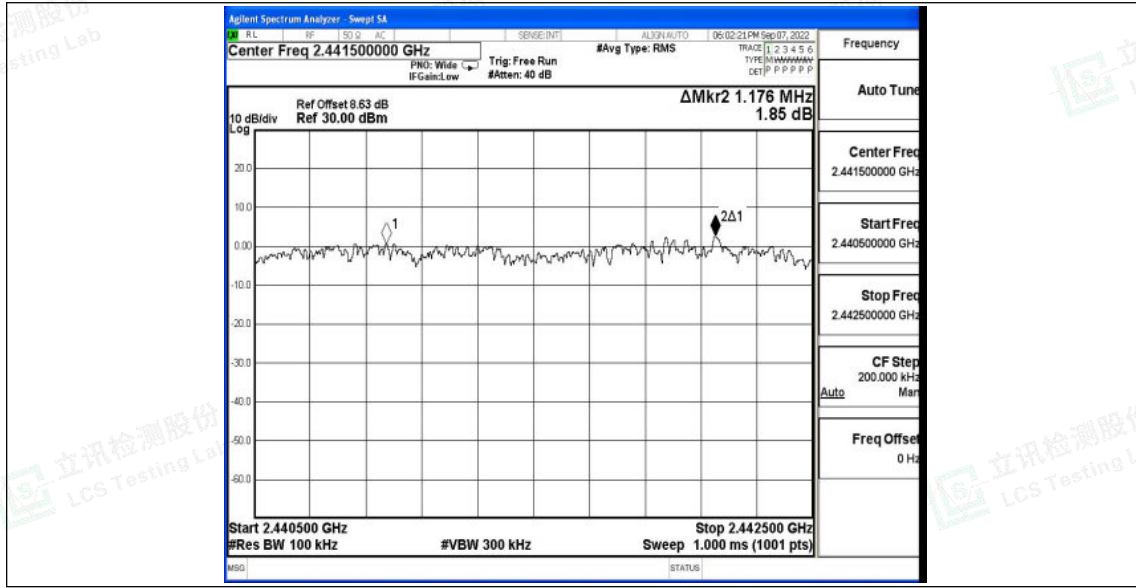
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.788	≥0.696	PASS
2DH5	Ant1	Hop	1.222	≥0.942	PASS
3DH5	Ant1	Hop	1.176	≥0.890	PASS





Test Graphs







A.5 Time of occupancy

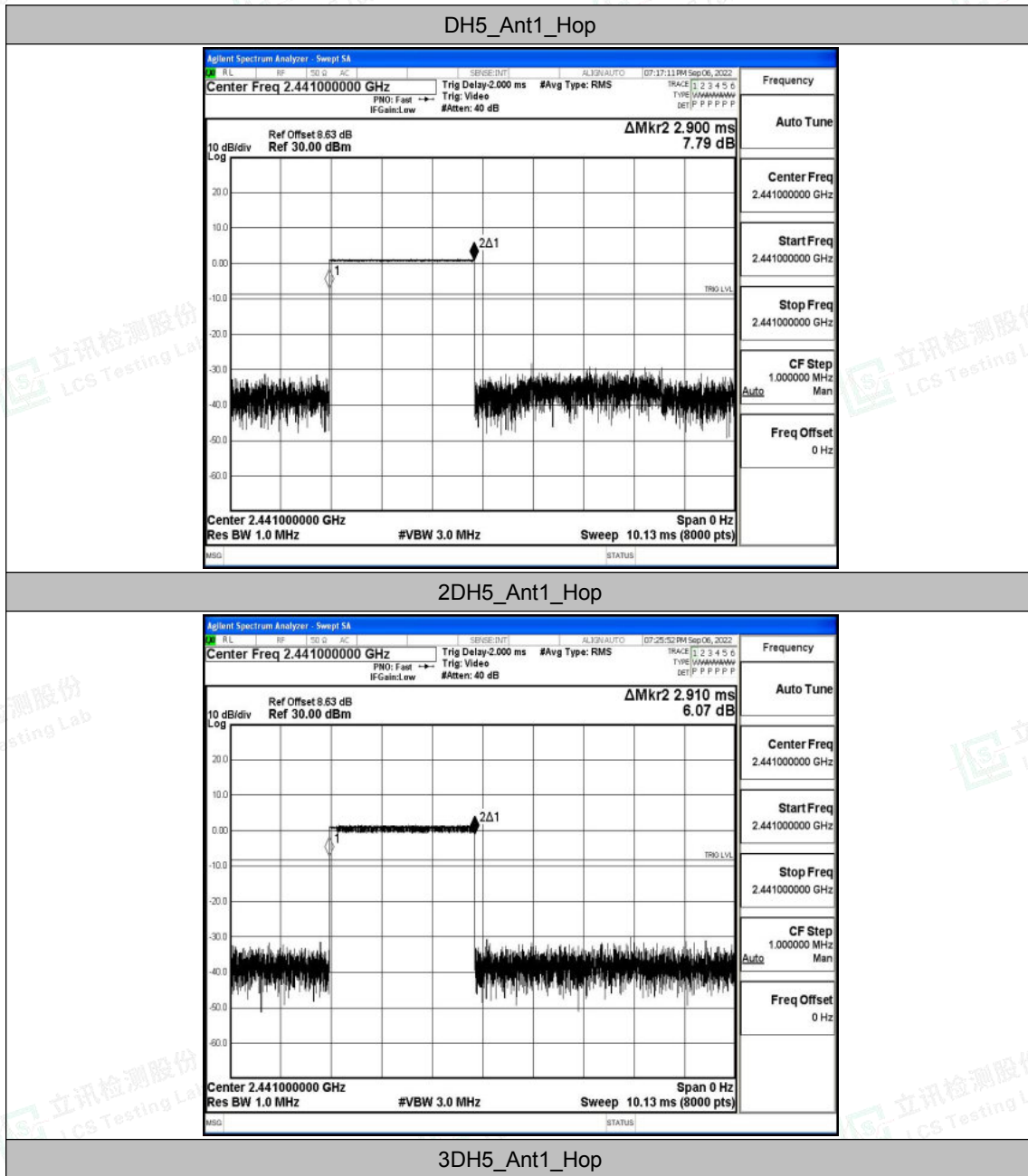
Test Result

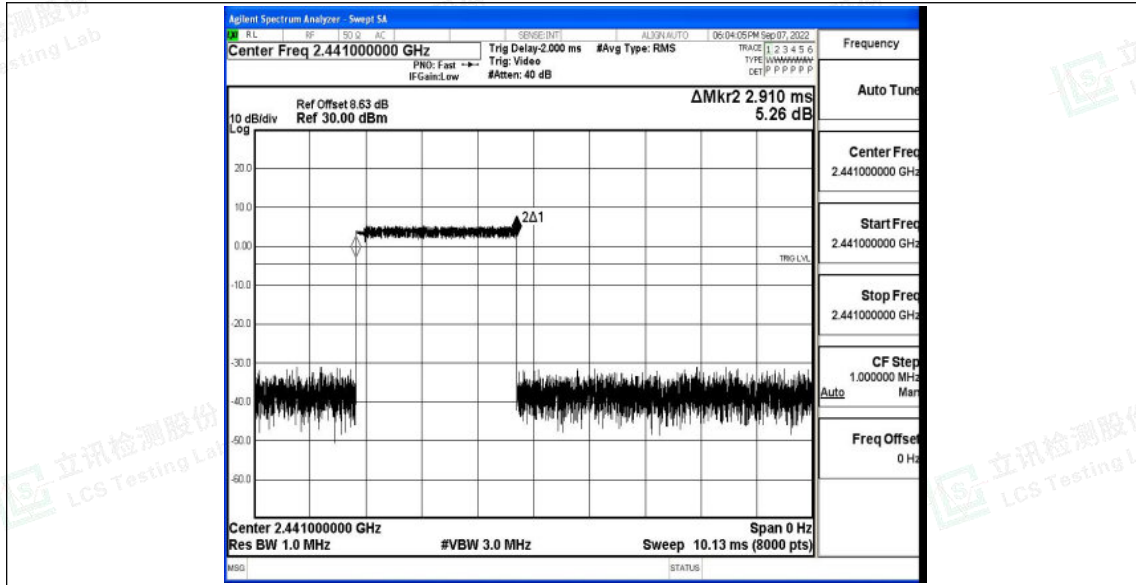
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.90	106.67	0.309	≤0.4	PASS
2DH5	Ant1	Hop	2.91	106.67	0.31	≤0.4	PASS
3DH5	Ant1	Hop	2.91	106.67	0.31	≤0.4	PASS





Test Graphs







A.6 Number of hopping channels

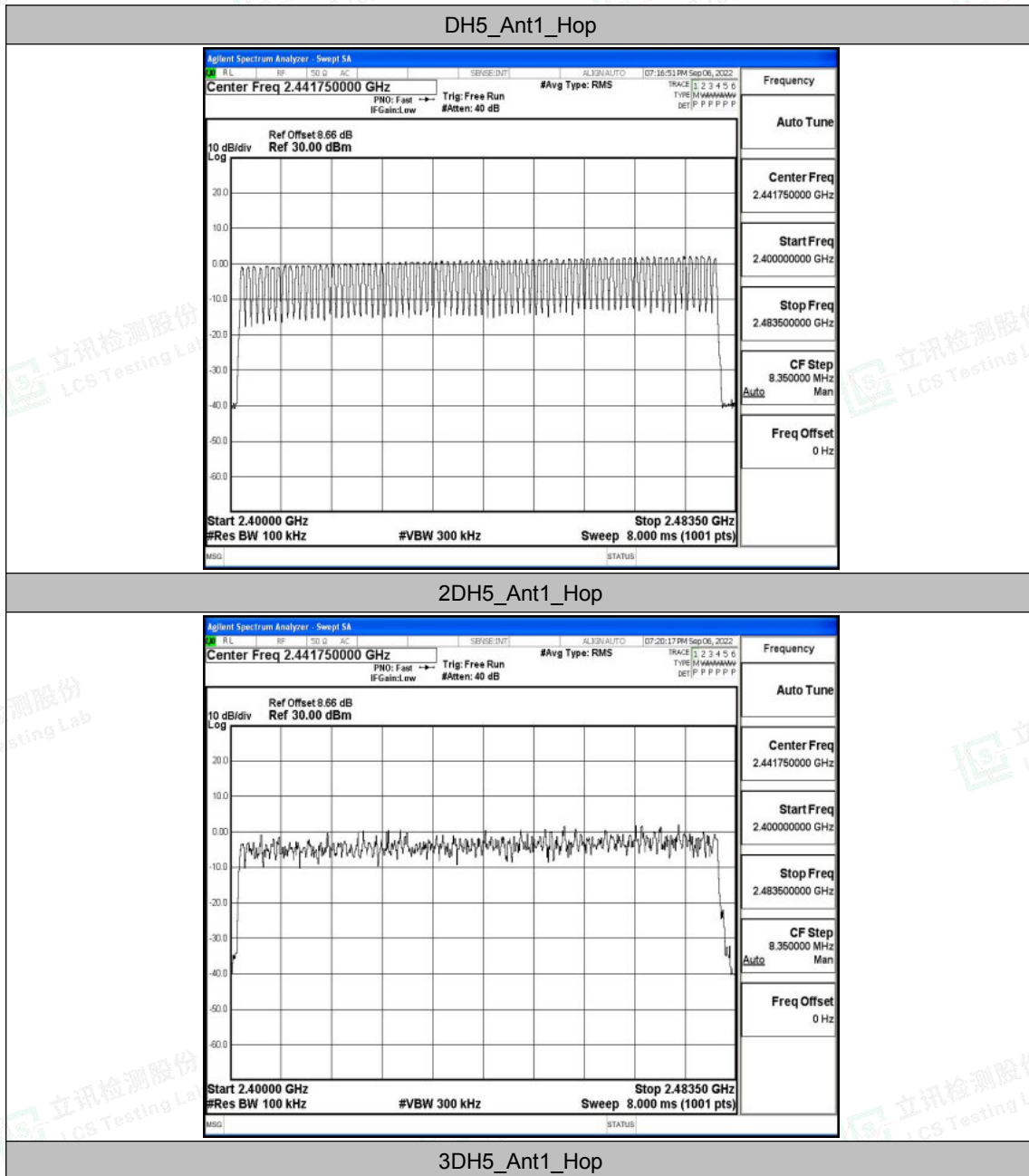
Test Result

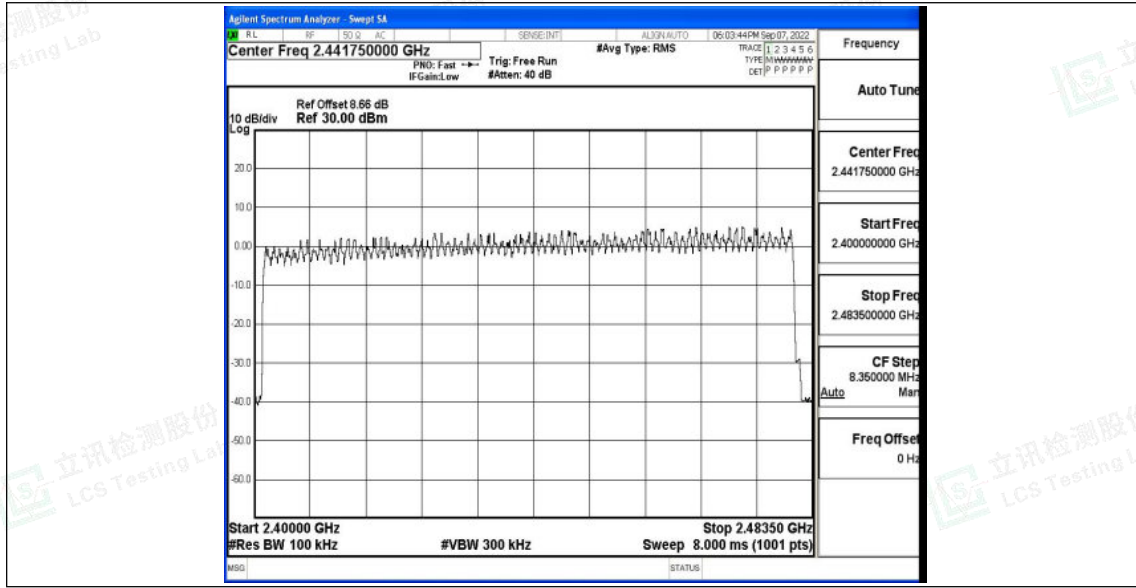
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.7 Band edge measurements

Test Result

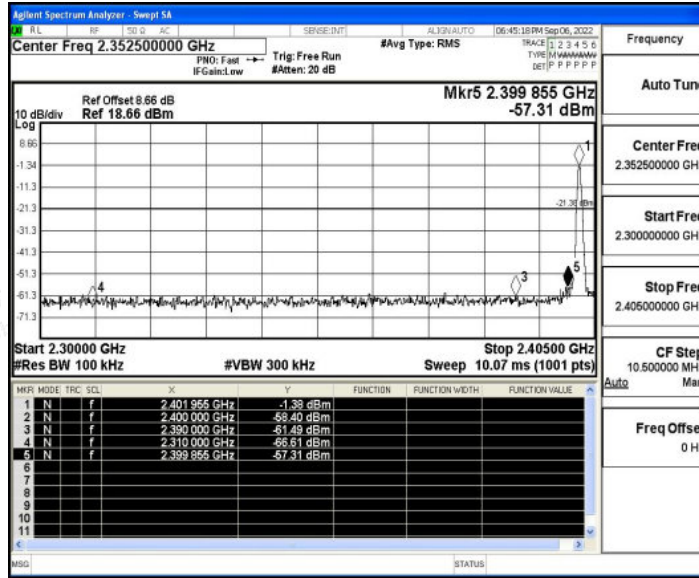
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.38	-57.31	≤-21.38	PASS
		High	2480	1.59	-55.4	≤-18.42	PASS
		Low	Hop_2402	-1.87	-59.24	≤-21.87	PASS
		High	Hop_2480	2.06	-57.29	≤-17.94	PASS
2DH5	Ant1	Low	2402	-3.38	-47.13	≤-23.38	PASS
		High	2480	-0.42	-48.53	≤-20.42	PASS
		Low	Hop_2402	-3.81	-59.4	≤-23.81	PASS
		High	Hop_2480	2.13	-56	≤-17.87	PASS
3DH5	Ant1	Low	2402	1.29	-47.7	≤-18.71	PASS
		High	2480	5.16	-51.31	≤-14.84	PASS
		Low	Hop_2402	0.68	-58.33	≤-19.32	PASS
		High	Hop_2480	2.54	-56.81	≤-17.46	PASS



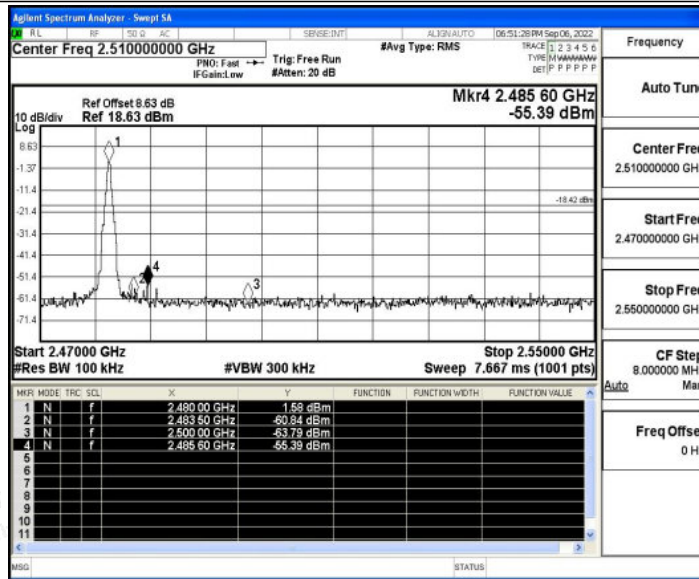


Test Graphs

DH5_Ant1_Low_2402

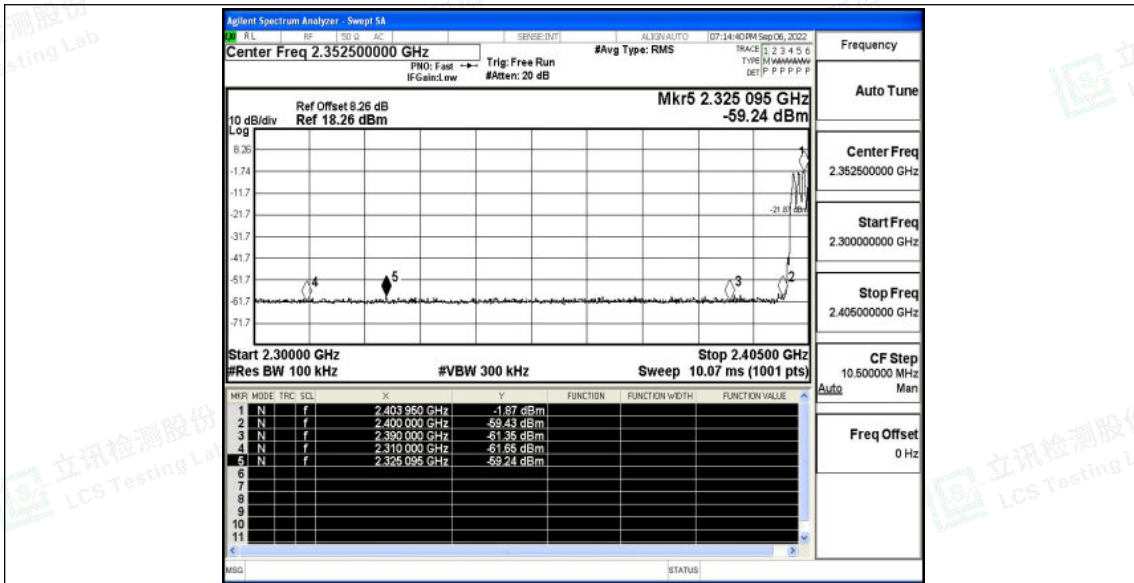


DH5_Ant1_High_2480

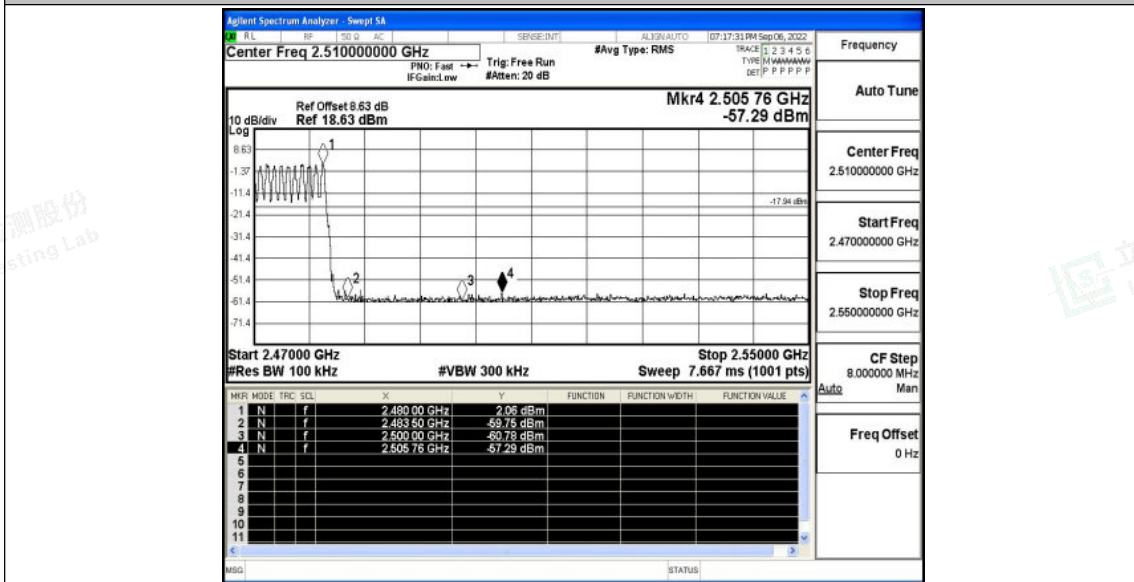


DH5_Ant1_Low_Hop_2402



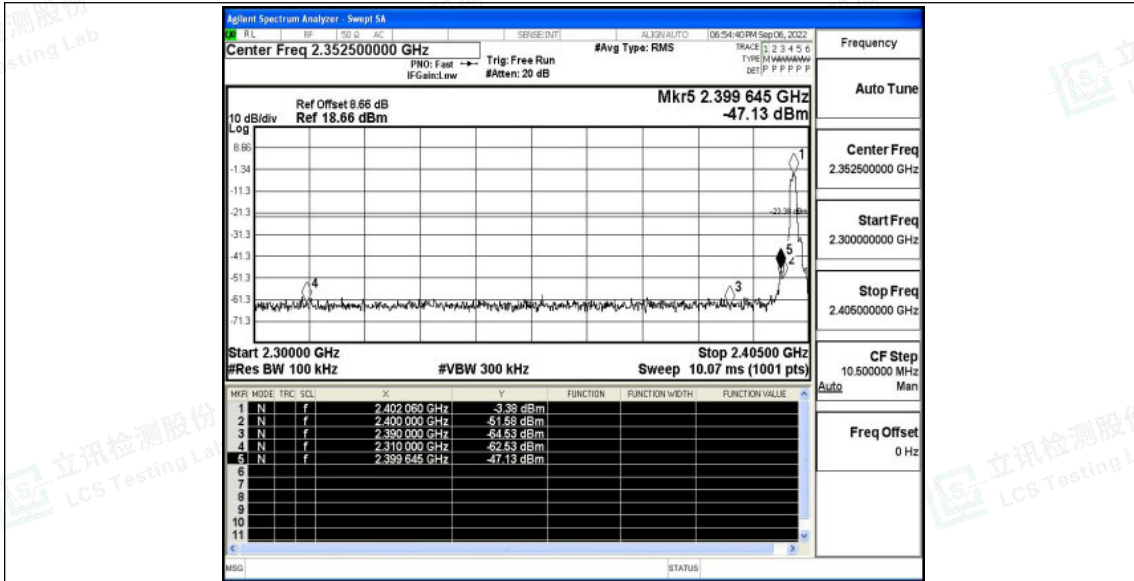


DH5_Ant1_High_Hop_2480

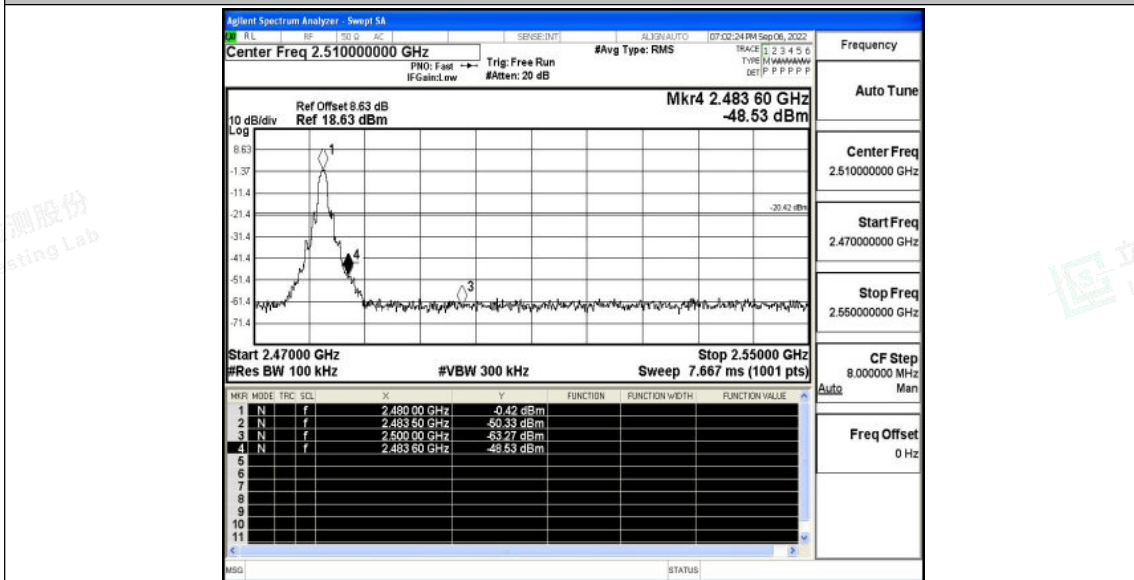


2DH5_Ant1_Low_2402



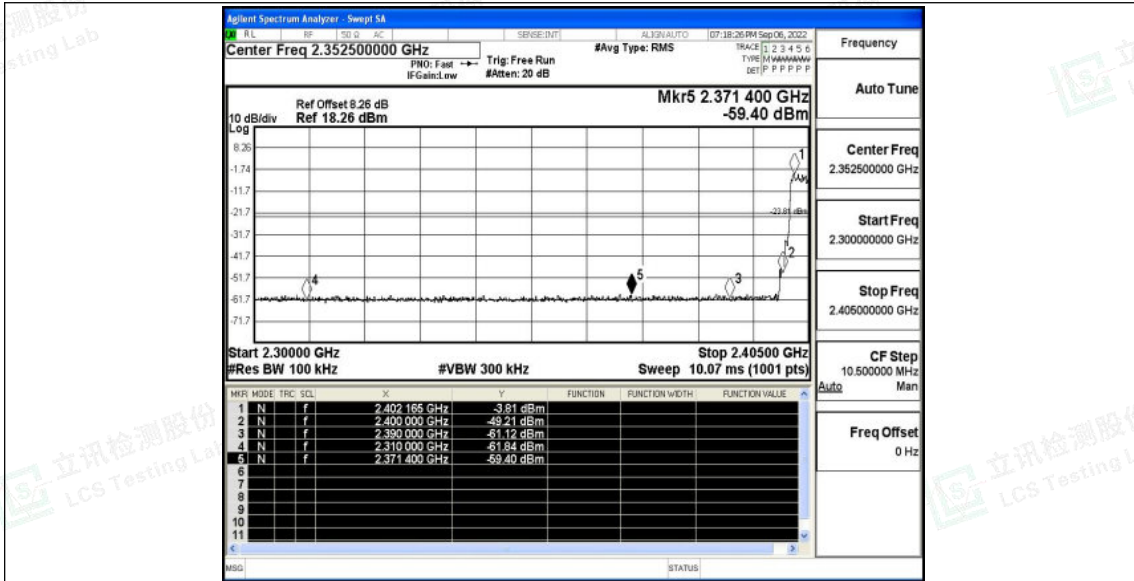


2DH5_Ant1_High_2480

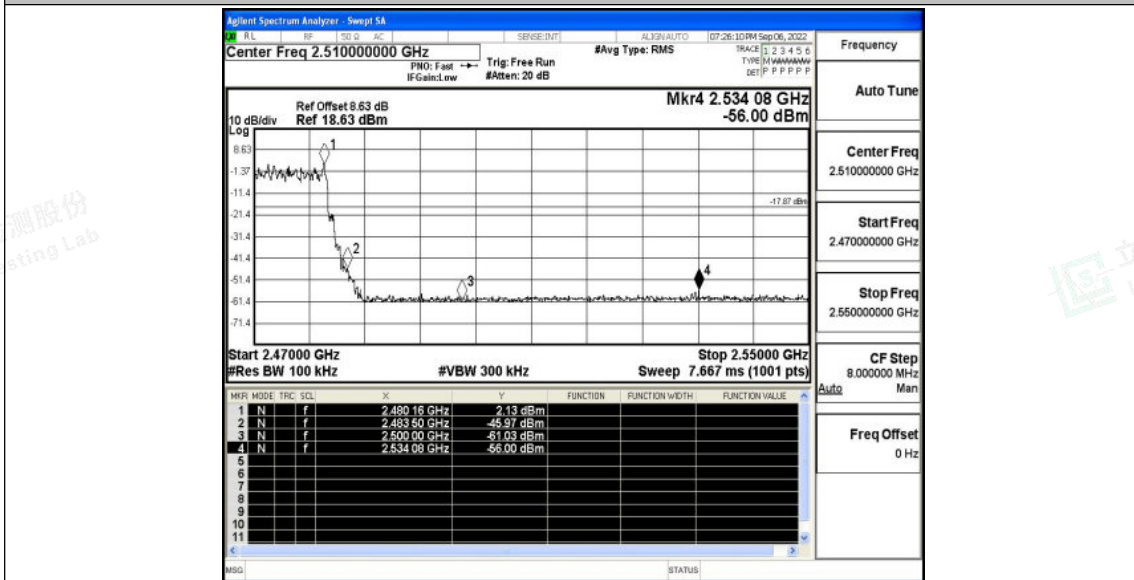


2DH5_Ant1_Low_Hop_2402



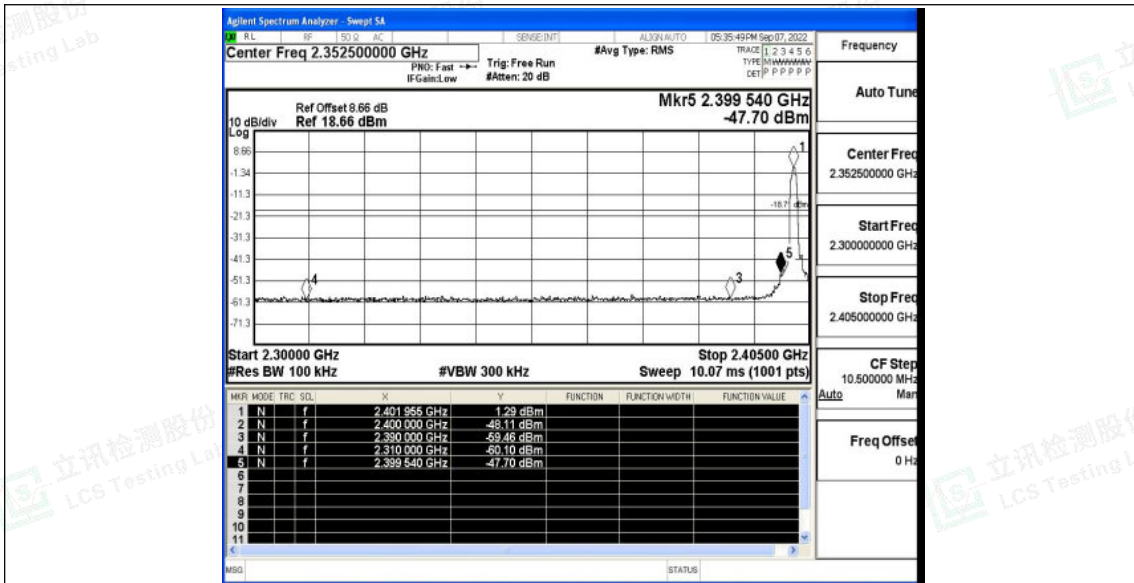


2DH5_Ant1_High_Hop_2480

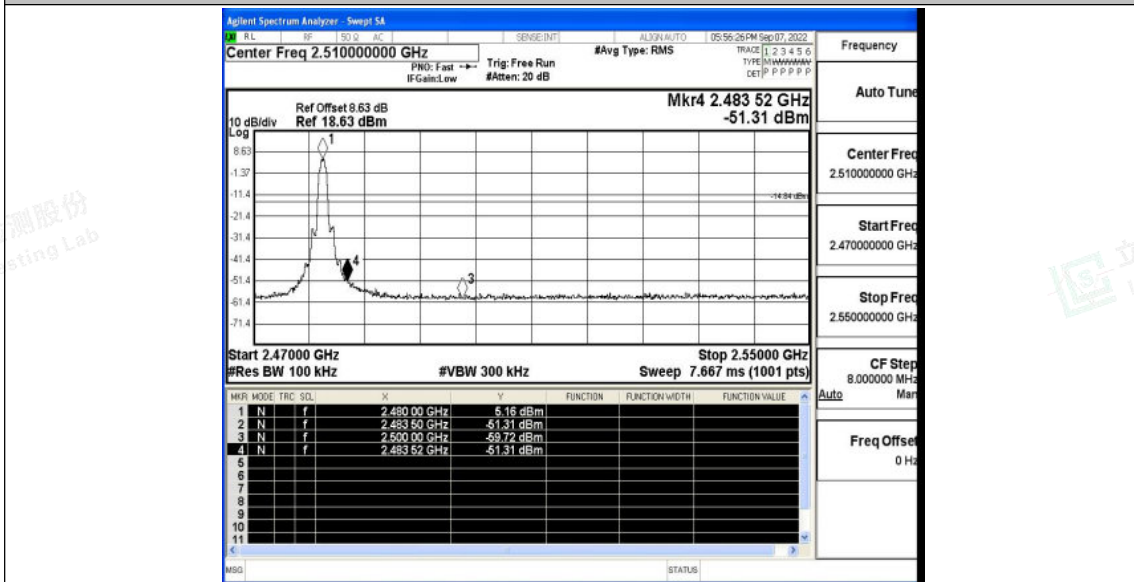


3DH5_Ant1_Low_2402



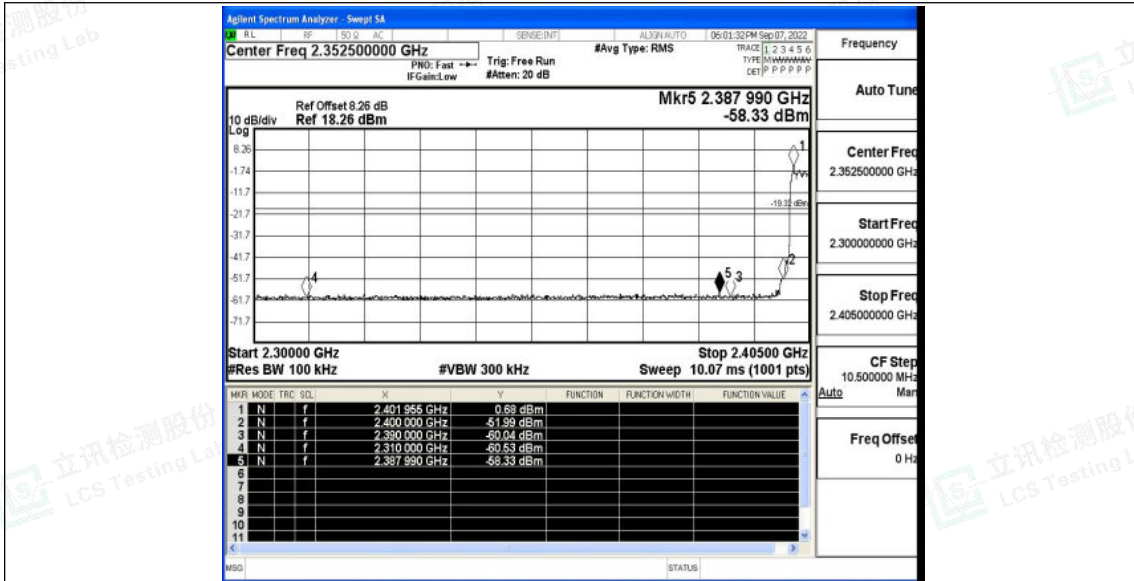


3DH5_Ant1_High_2480

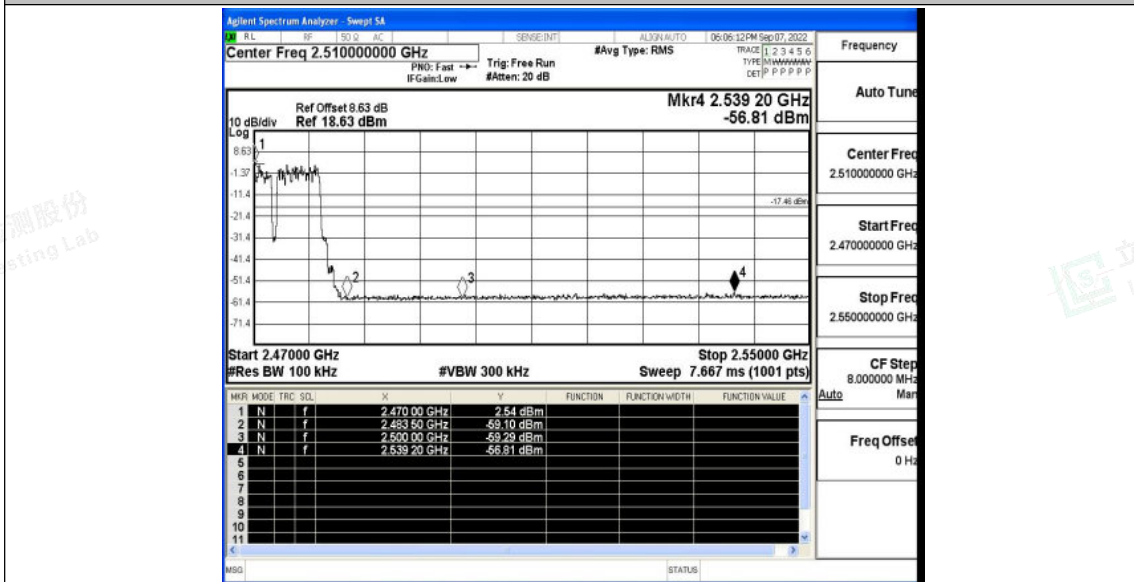


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480





A.8 Conducted Spurious Emission

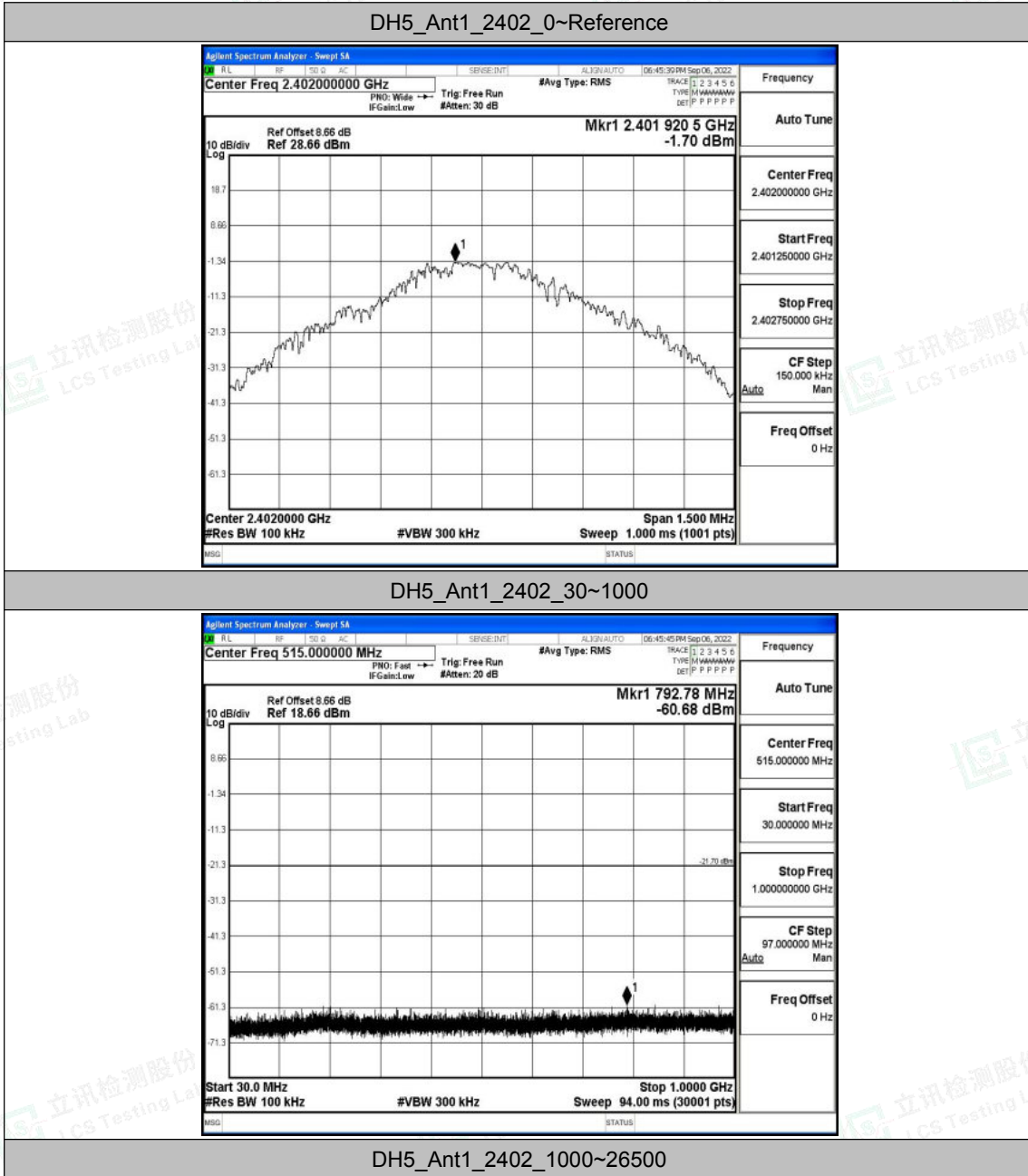
Test Result

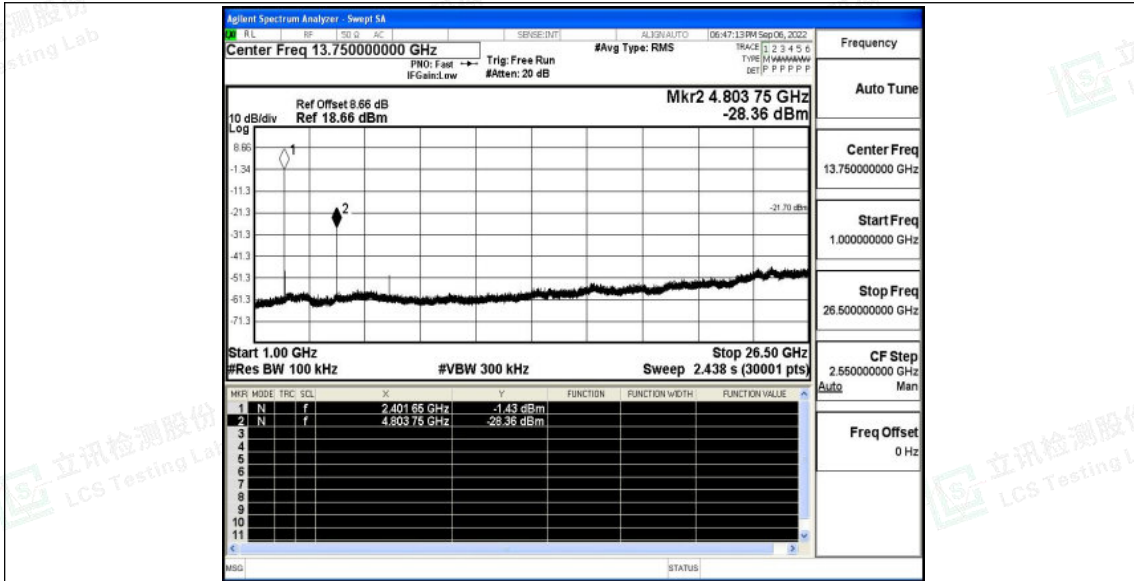
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.70	-1.70	---	PASS
			30~1000	-1.70	-60.68	≤-21.7	PASS
			1000~26500	-1.70	-28.36	≤-21.7	PASS
		2441	Reference	0.17	0.17	---	PASS
			30~1000	0.17	-60.71	≤-19.83	PASS
			1000~26500	0.17	-24.55	≤-19.83	PASS
		2480	Reference	1.95	1.95	---	PASS
			30~1000	1.95	-61.12	≤-18.05	PASS
			1000~26500	1.95	-21.58	≤-18.05	PASS
2DH5	Ant1	2402	Reference	-2.78	-2.78	---	PASS
			30~1000	-2.78	-60.42	≤-22.78	PASS
			1000~26500	-2.78	-28.52	≤-22.78	PASS
		2441	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-60.62	≤-21.66	PASS
			1000~26500	-1.66	-26.71	≤-21.66	PASS
		2480	Reference	1.93	1.93	---	PASS
			30~1000	1.93	-60.65	≤-18.07	PASS
			1000~26500	1.93	-20.7	≤-18.07	PASS
3DH5	Ant1	2402	Reference	1.33	1.33	---	PASS
			30~1000	1.33	-60.58	≤-18.67	PASS
			1000~26500	1.33	-27.02	≤-18.67	PASS
		2441	Reference	-3.19	-3.19	---	PASS
			30~1000	-3.19	-60.44	≤-23.19	PASS
			1000~26500	-3.19	-36.6	≤-23.19	PASS
		2480	Reference	4.98	4.98	---	PASS
			30~1000	4.98	-54.88	≤-15.02	PASS
			1000~26500	4.98	-24.92	≤-15.02	PASS



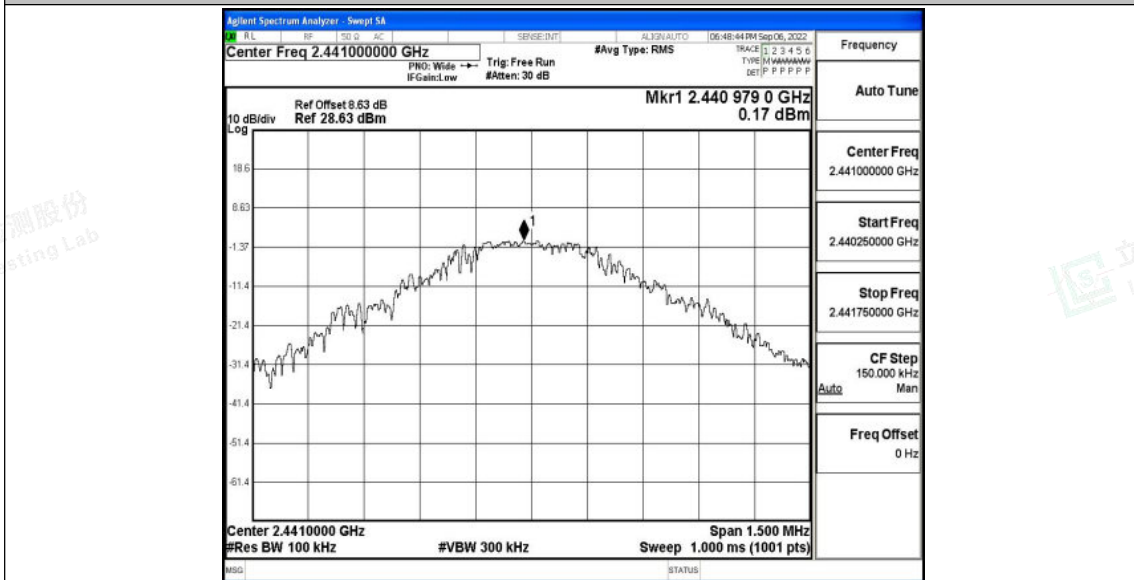


Test Graphs



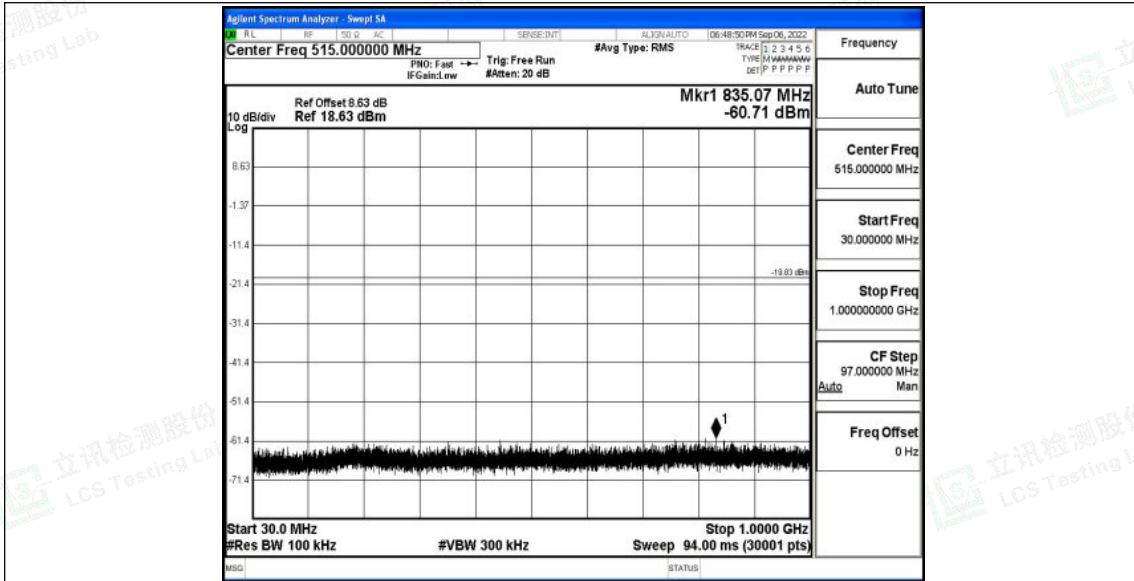


DH5_Ant1_2441_0~Reference

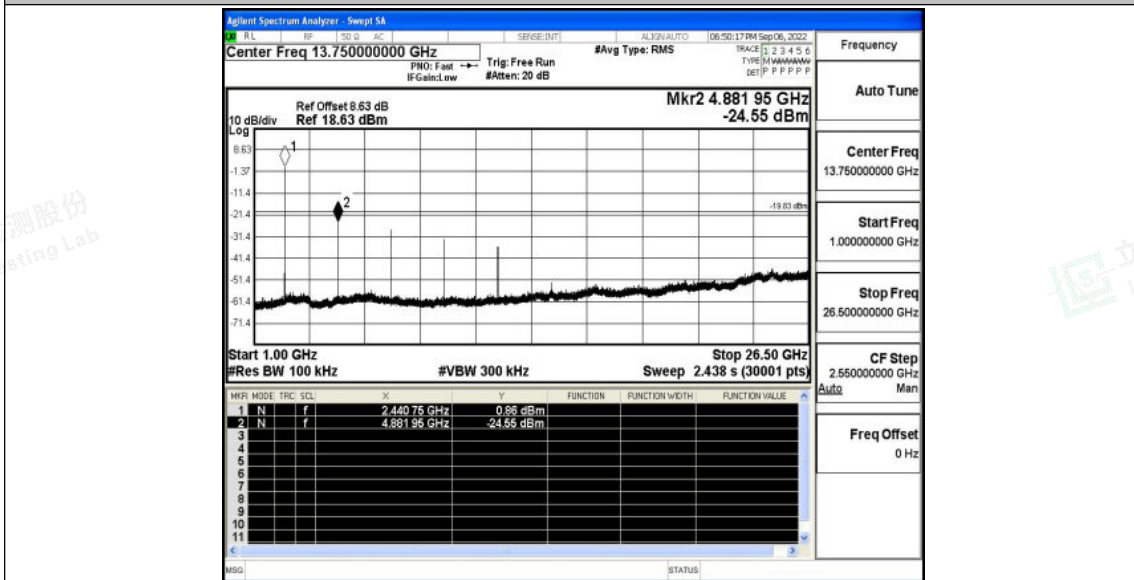


DH5_Ant1_2441_30~1000



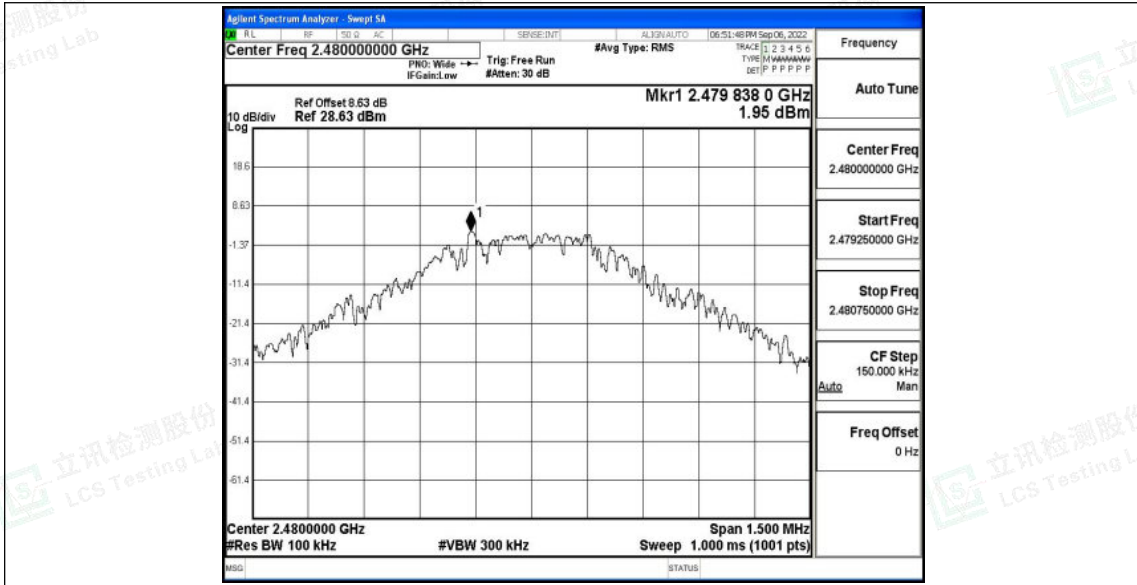


DH5_Ant1_2441_1000~26500

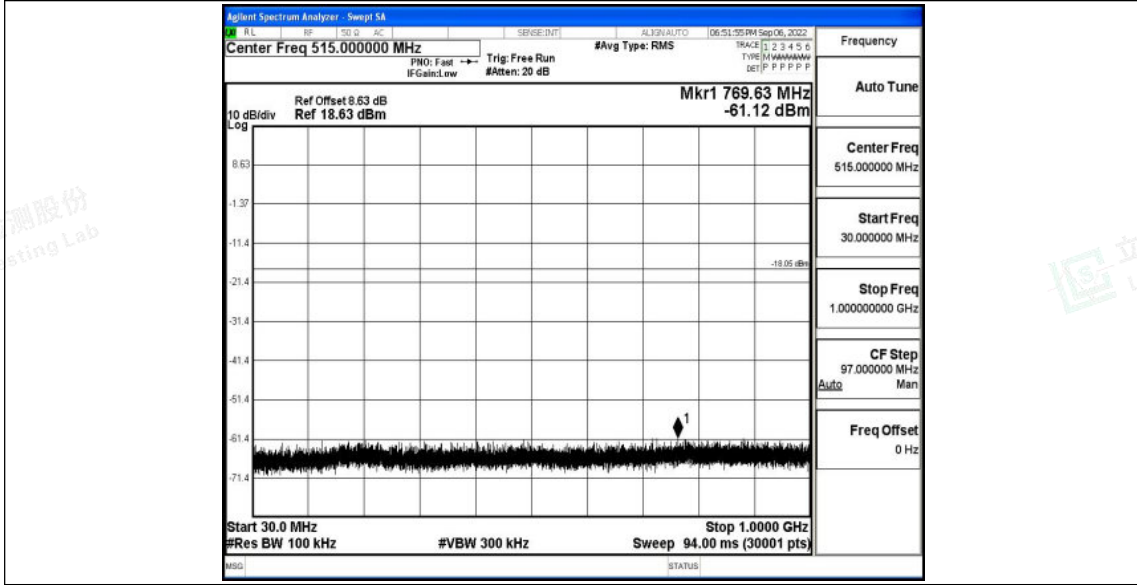


DH5_Ant1_2480_0~Reference



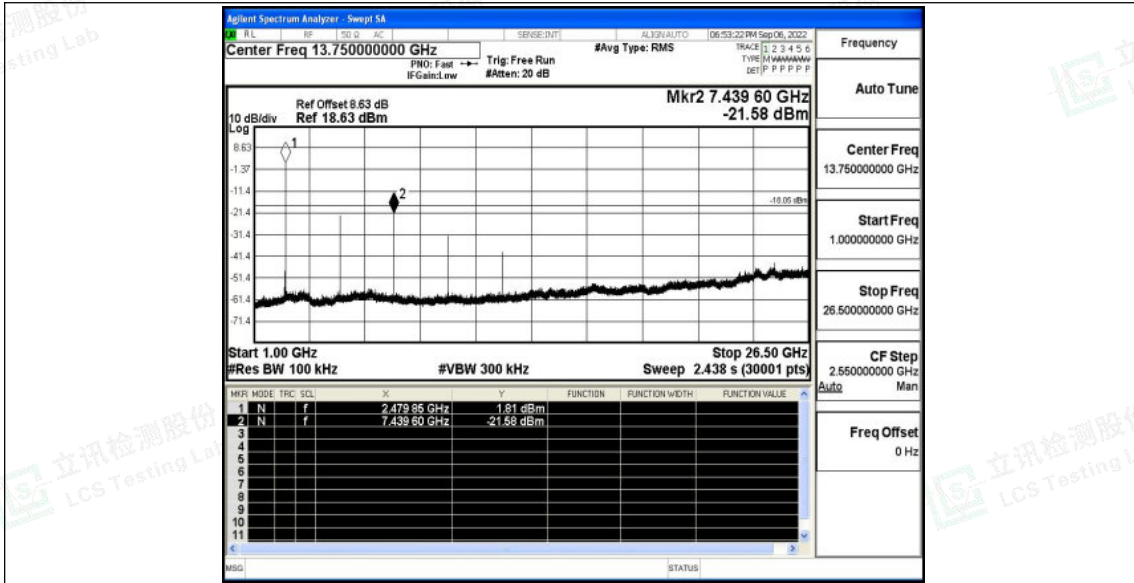


DH5_Ant1_2480_30~1000

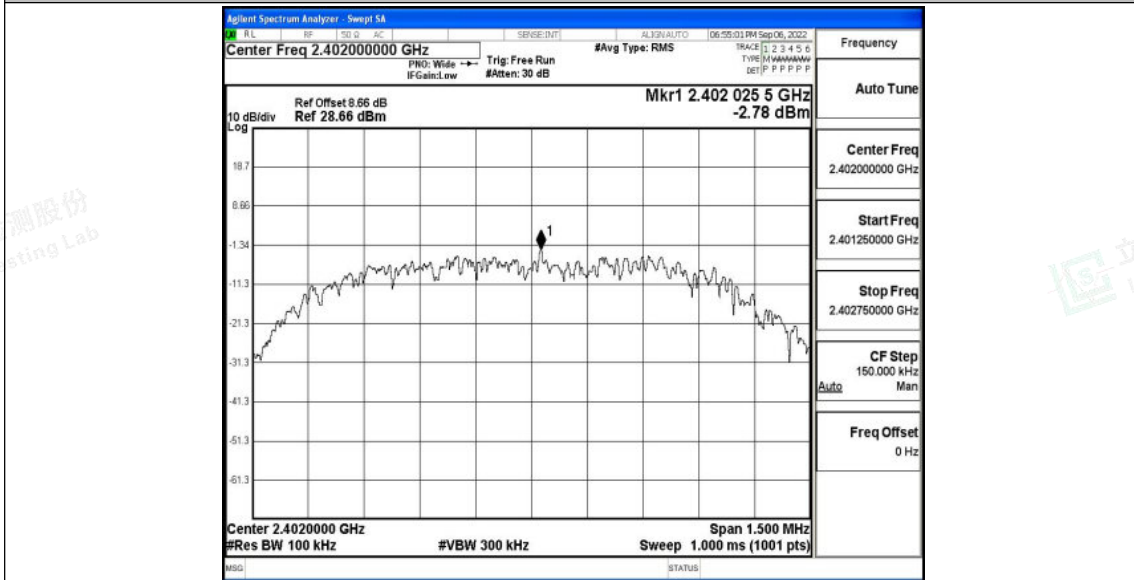


DH5_Ant1_2480_1000~26500



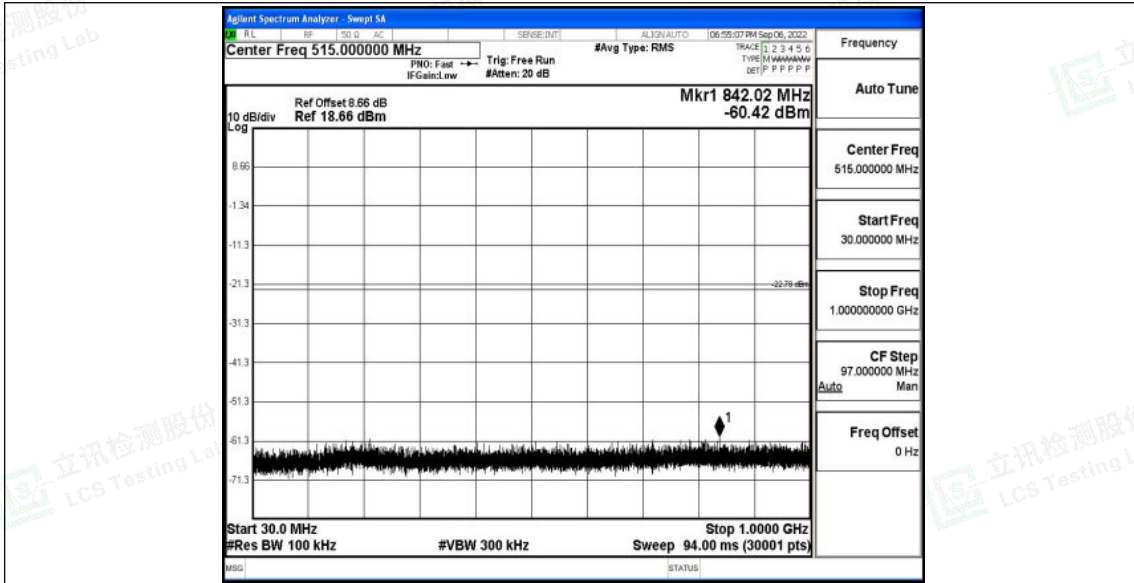


2DH5_Ant1_2402_0~Reference

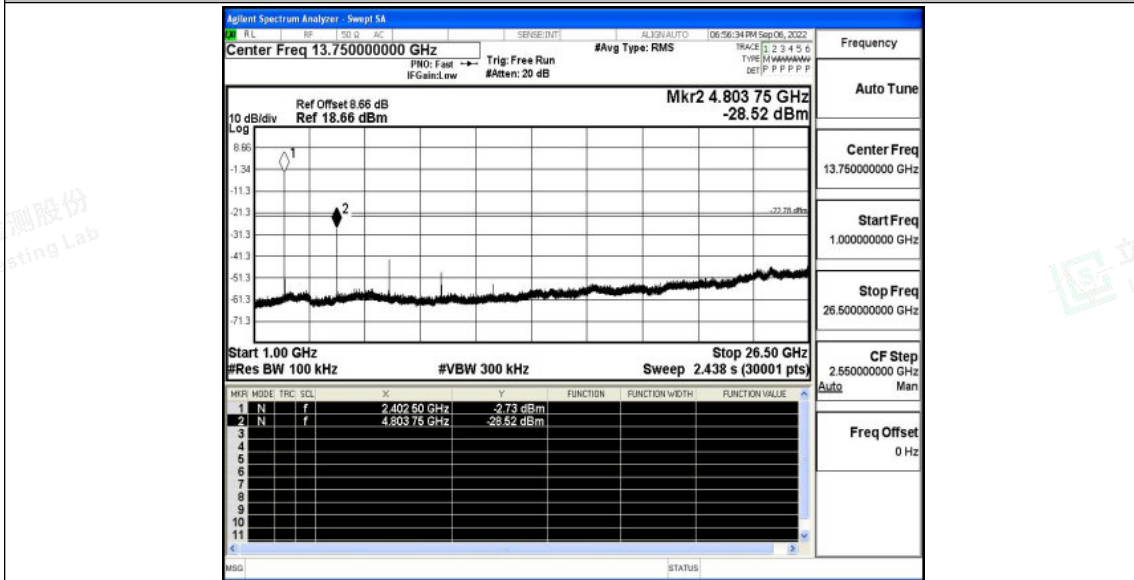


2DH5_Ant1_2402_30~1000



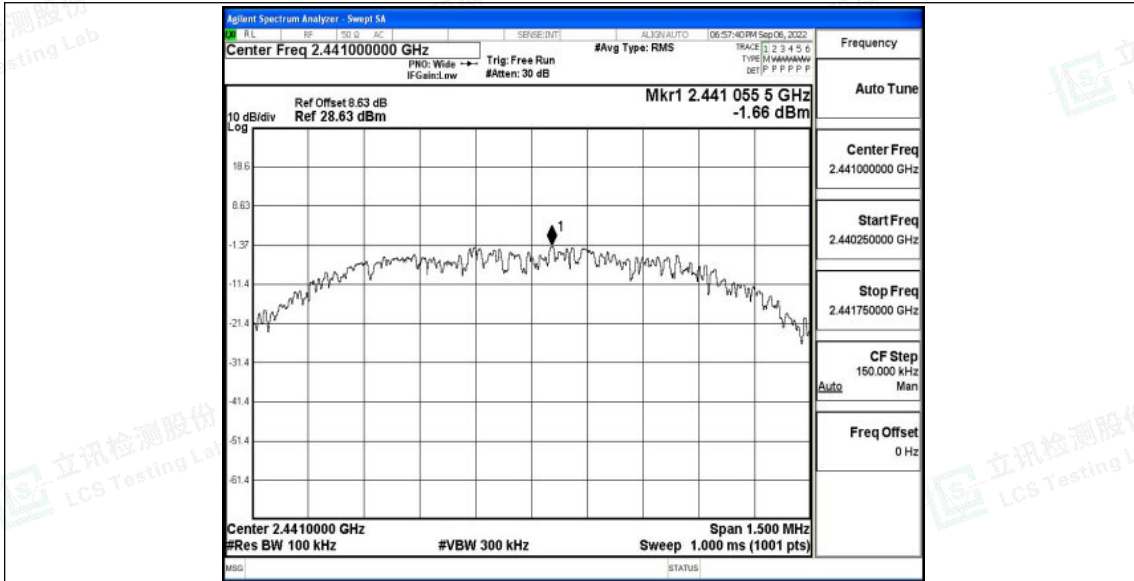


2DH5_Ant1_2402_1000~26500

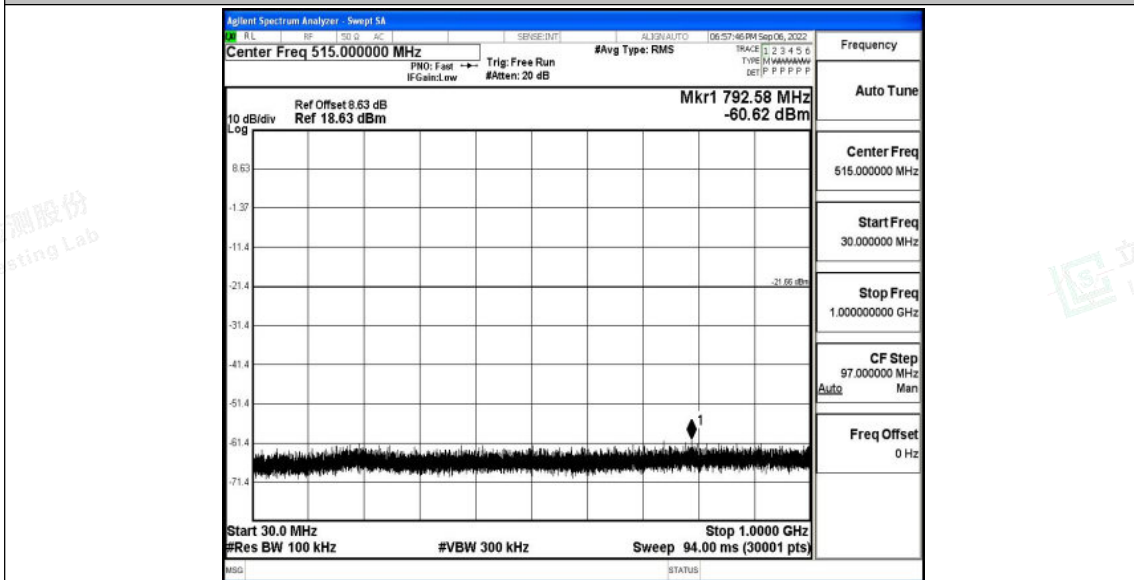


2DH5_Ant1_2441_0~Reference



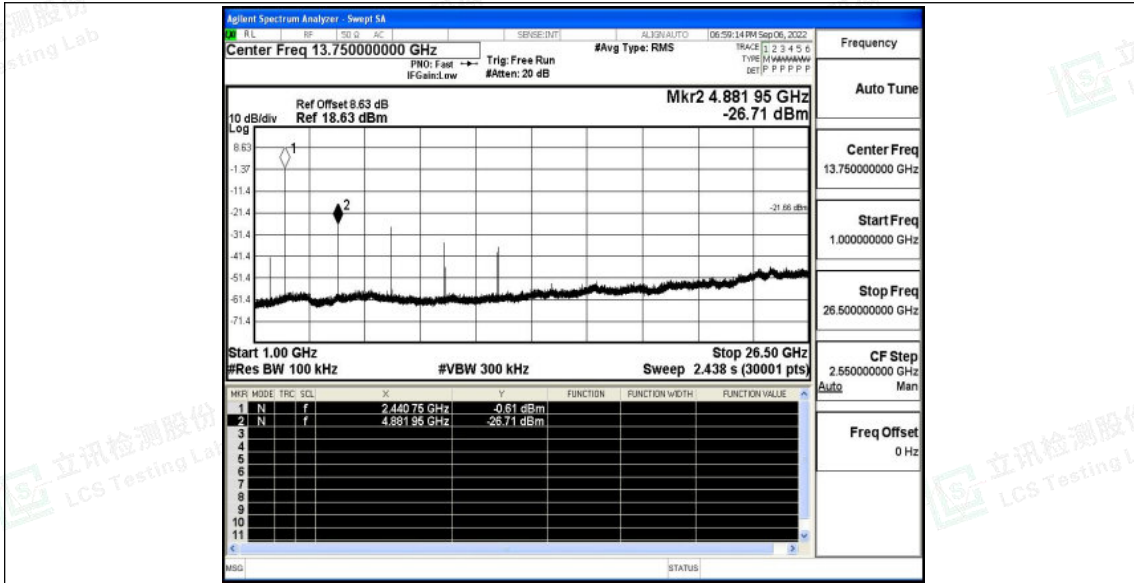


2DH5_Ant1_2441_30~1000

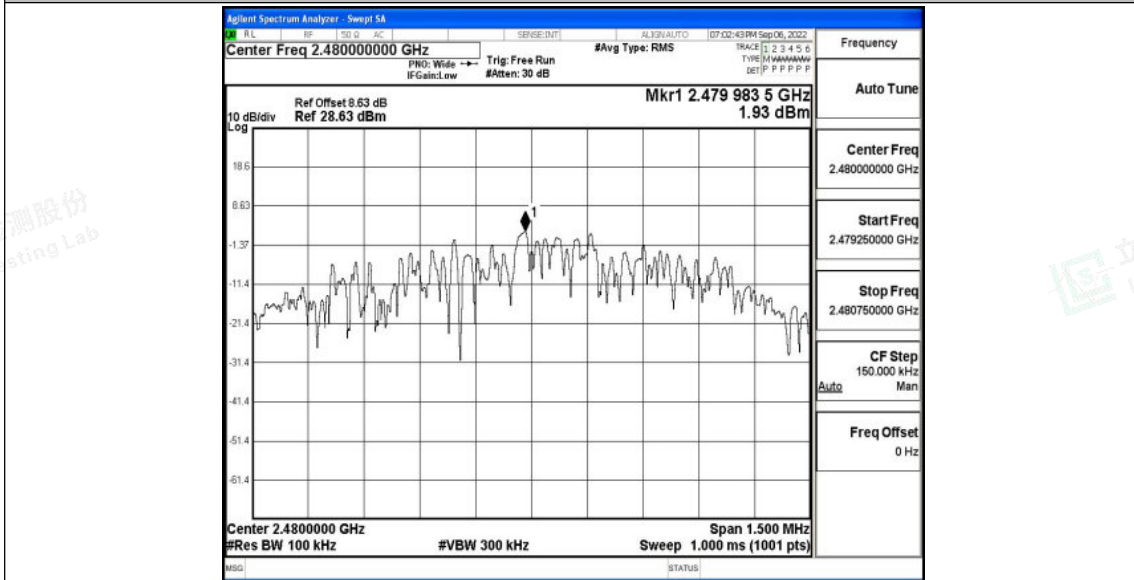


2DH5_Ant1_2441_1000~26500



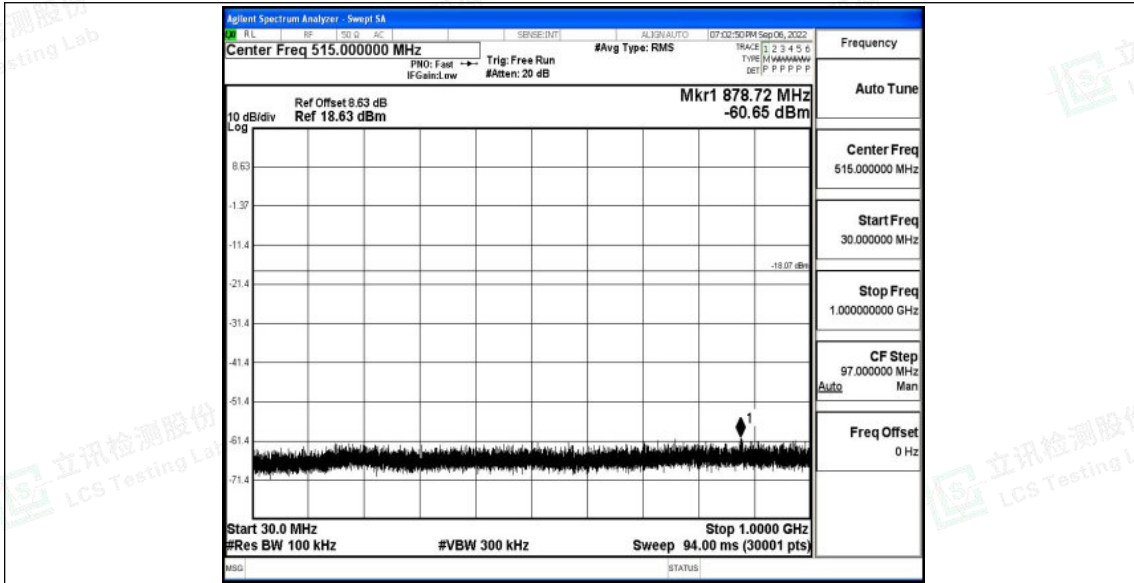


2DH5_Ant1_2480_0~Reference

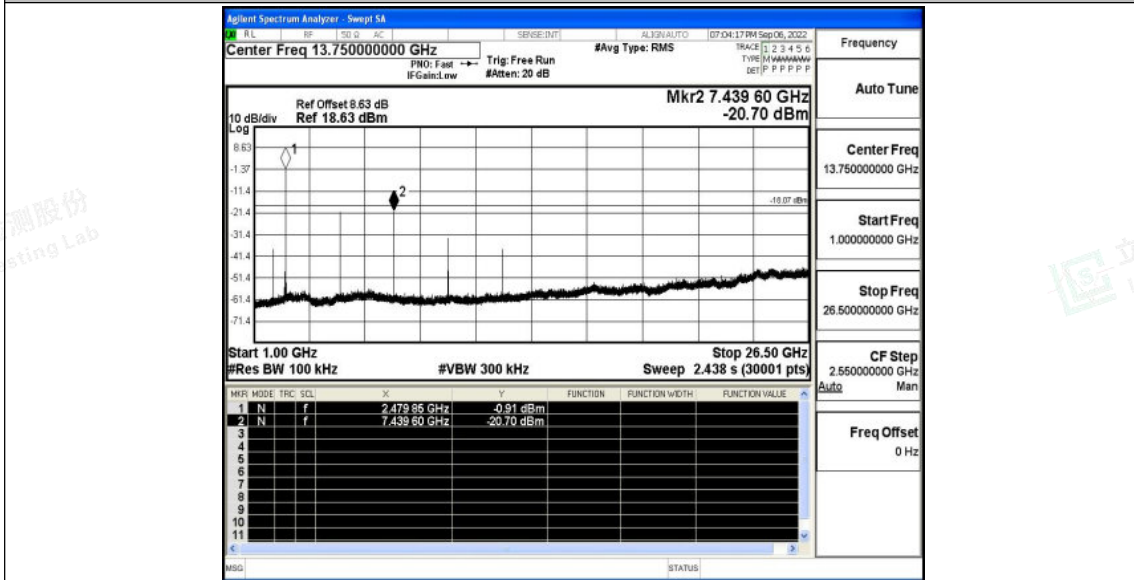


2DH5_Ant1_2480_30~1000



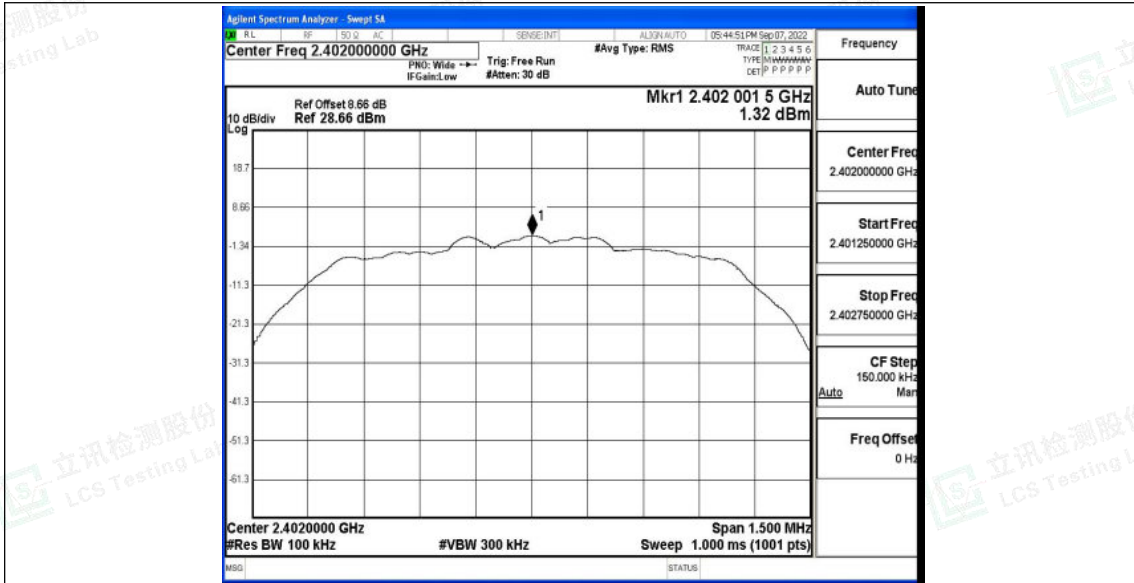


2DH5_Ant1_2480_1000~26500

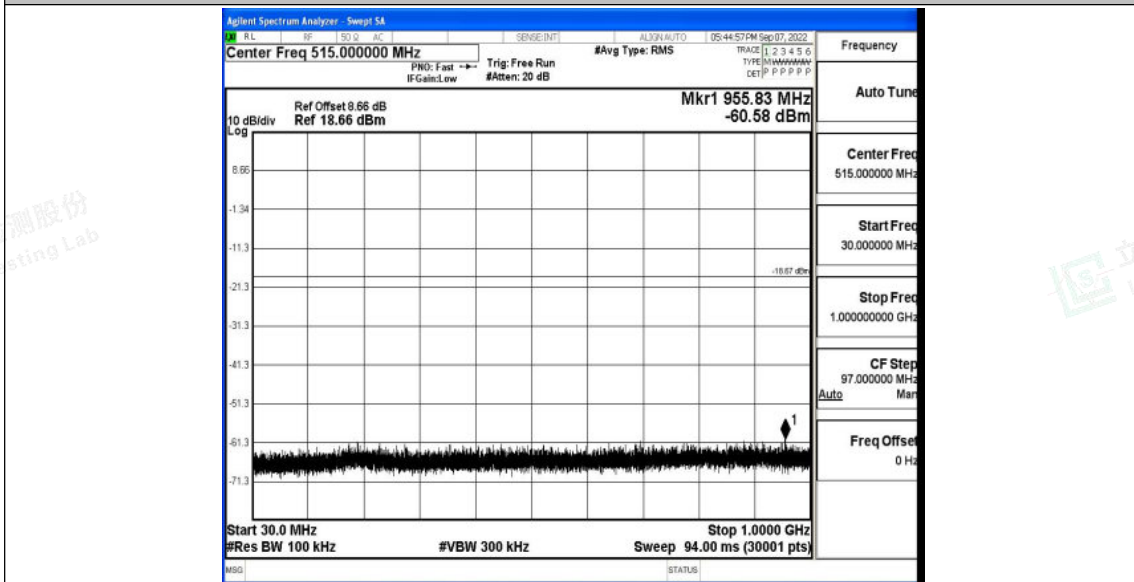


3DH5_Ant1_2402_0~Reference



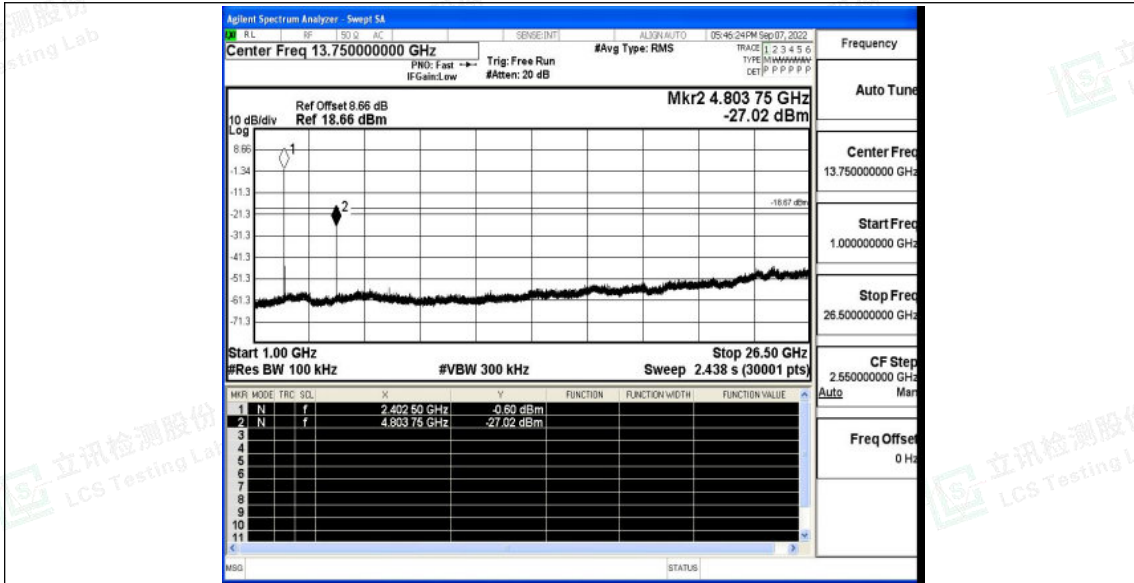


3DH5_Ant1_2402_30~1000

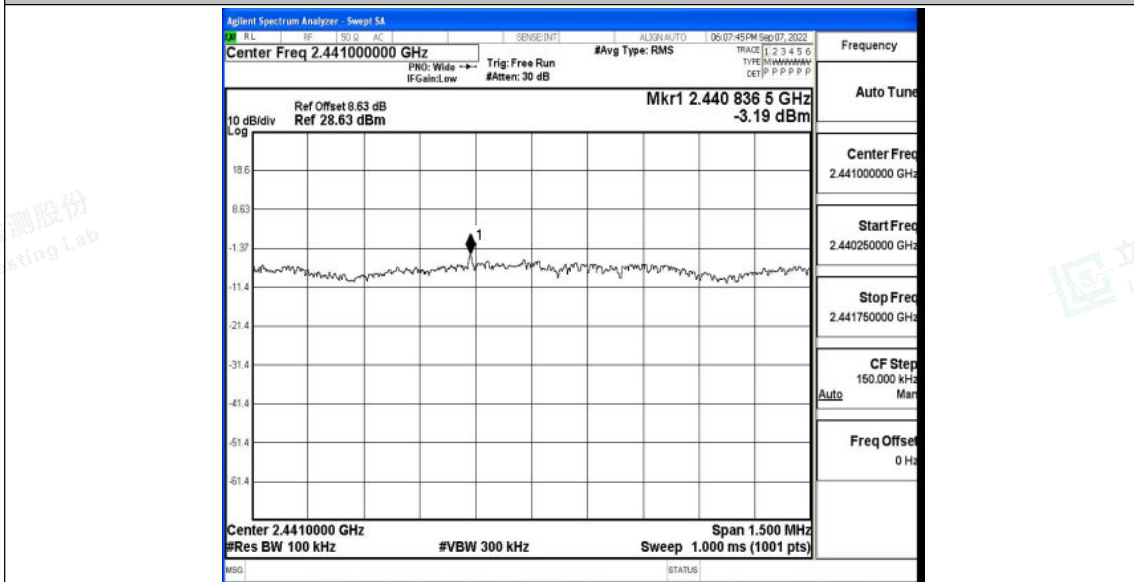


3DH5_Ant1_2402_1000~26500



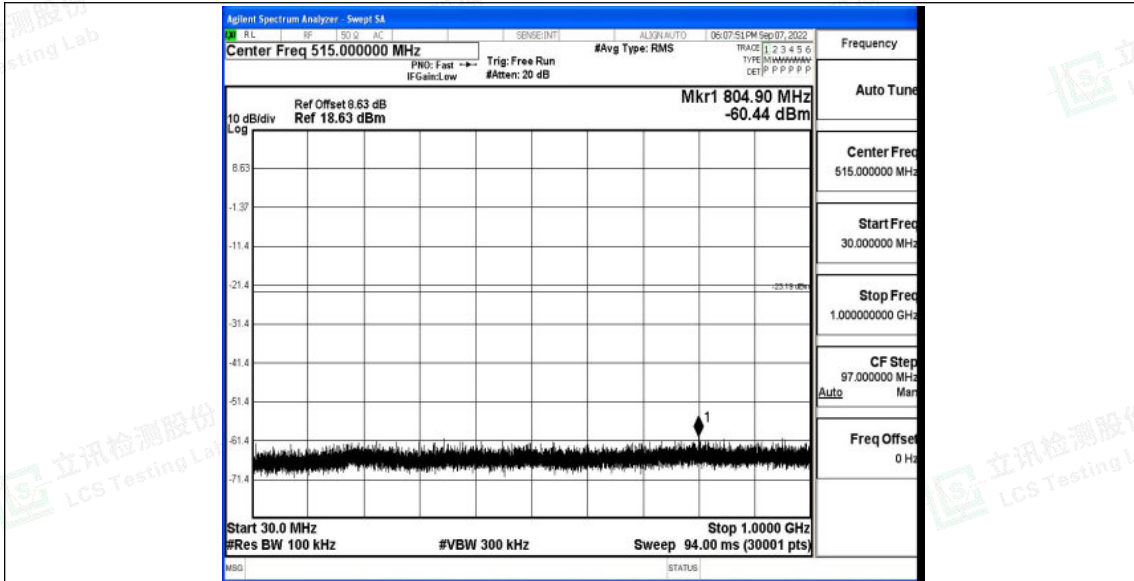


3DH5_Ant1_2441_0~Reference

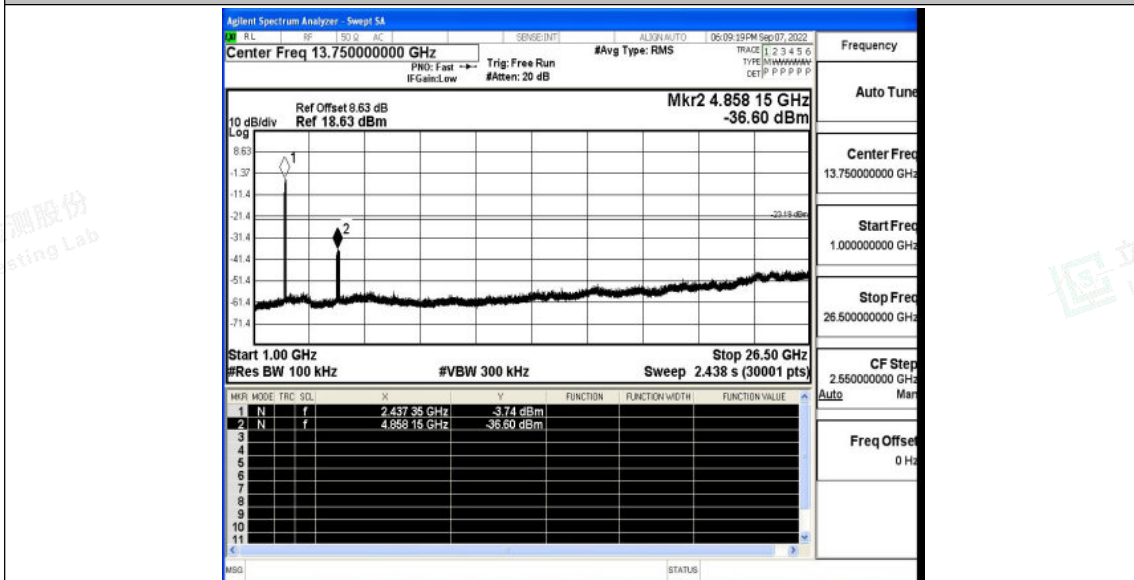


3DH5_Ant1_2441_30~1000





3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

