



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Tablet PC

Test Model: MBW100

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
	<i>Joker.Hu</i>
Supervised by:	Ling Zhu
	<i>Ling.Zhu</i>





A.1 20dB Emission Bandwidth

Test Result

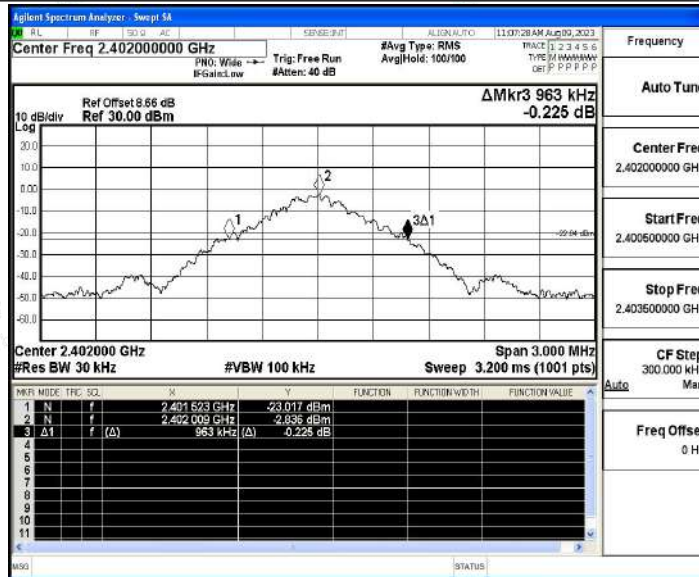
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.523	2402.486	---
		2441	1.026	2440.466	2441.492	---
		2480	0.963	2479.520	2480.483	---
2DH5	Ant1	2402	1.326	2401.331	2402.657	---
		2441	1.293	2440.355	2441.648	---
		2480	1.296	2479.352	2480.648	---
3DH5	Ant1	2402	1.296	2401.340	2402.636	---
		2441	1.314	2440.340	2441.654	---
		2480	1.305	2479.340	2480.645	---



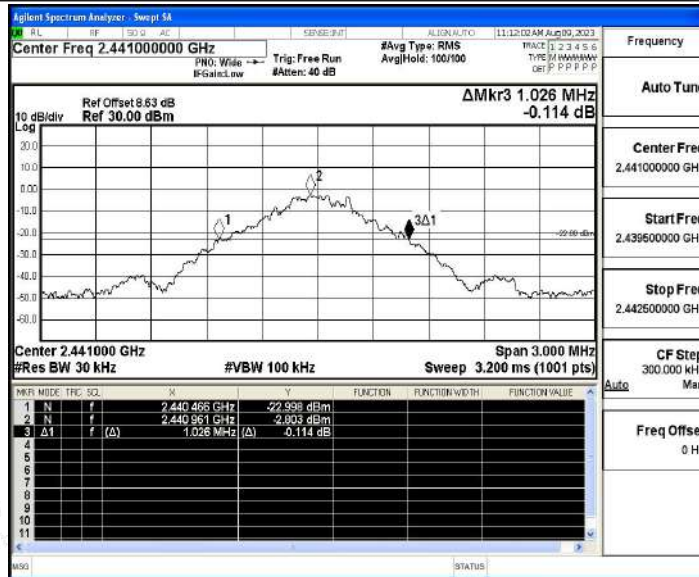


Test Graphs

DH5_Ant1_2402

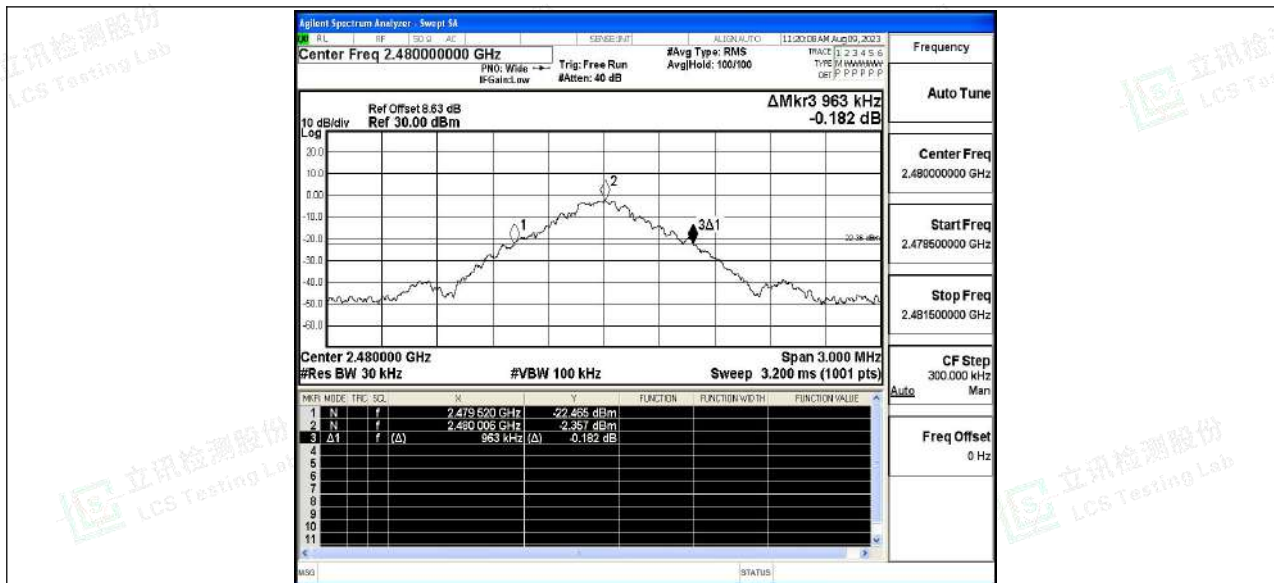


DH5_Ant1_2441

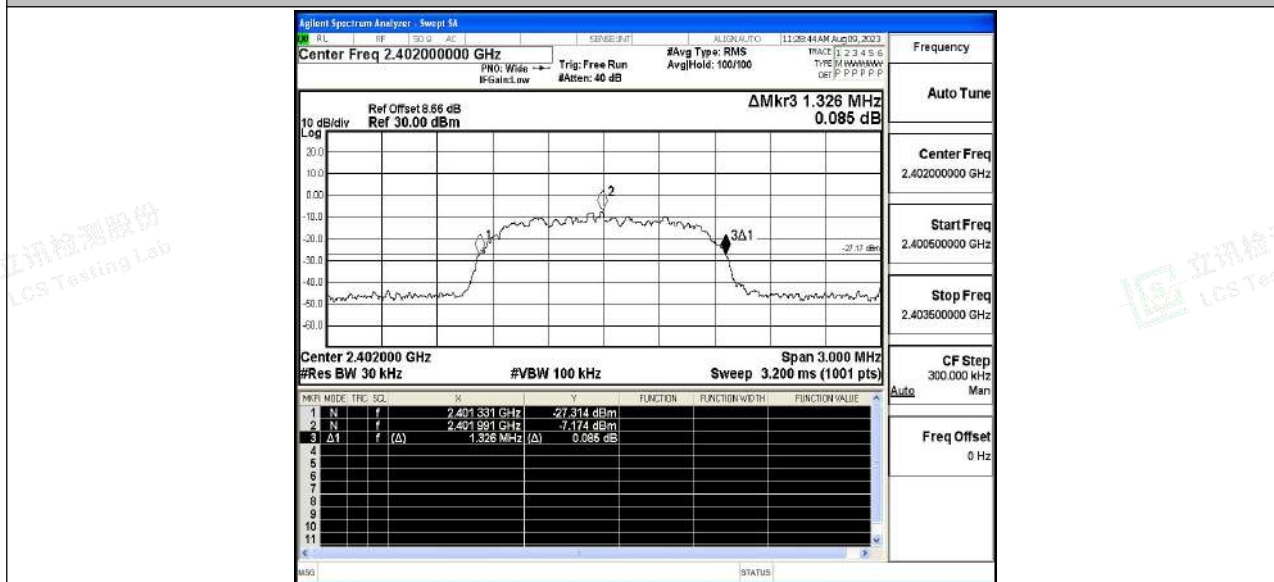


DH5_Ant1_2480



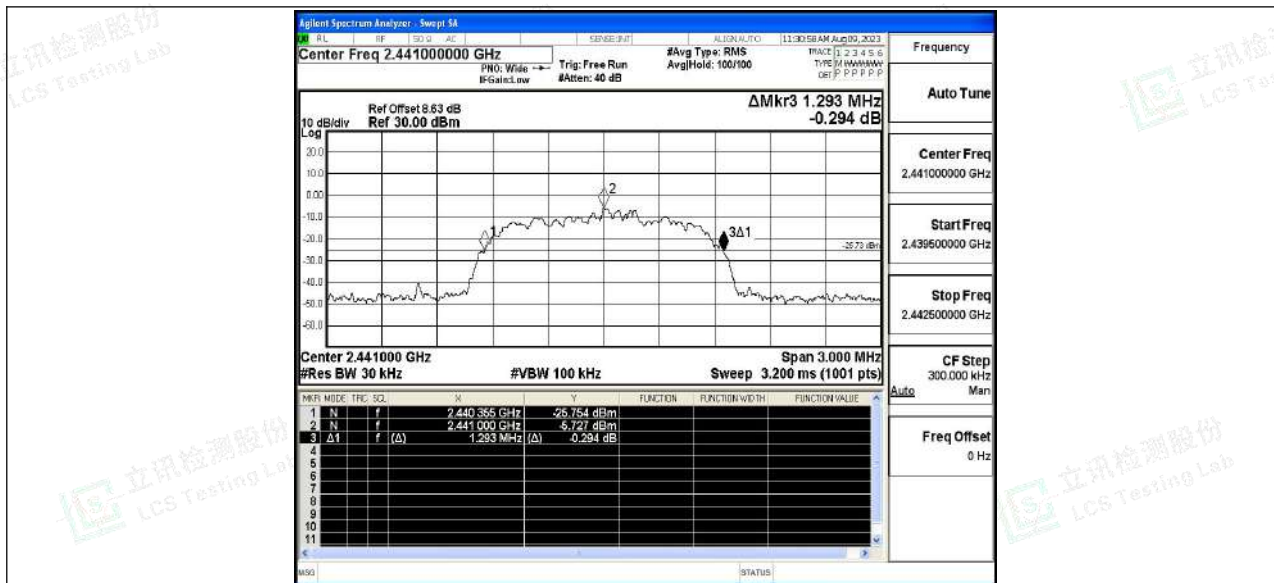


2DH5_Ant1_2402

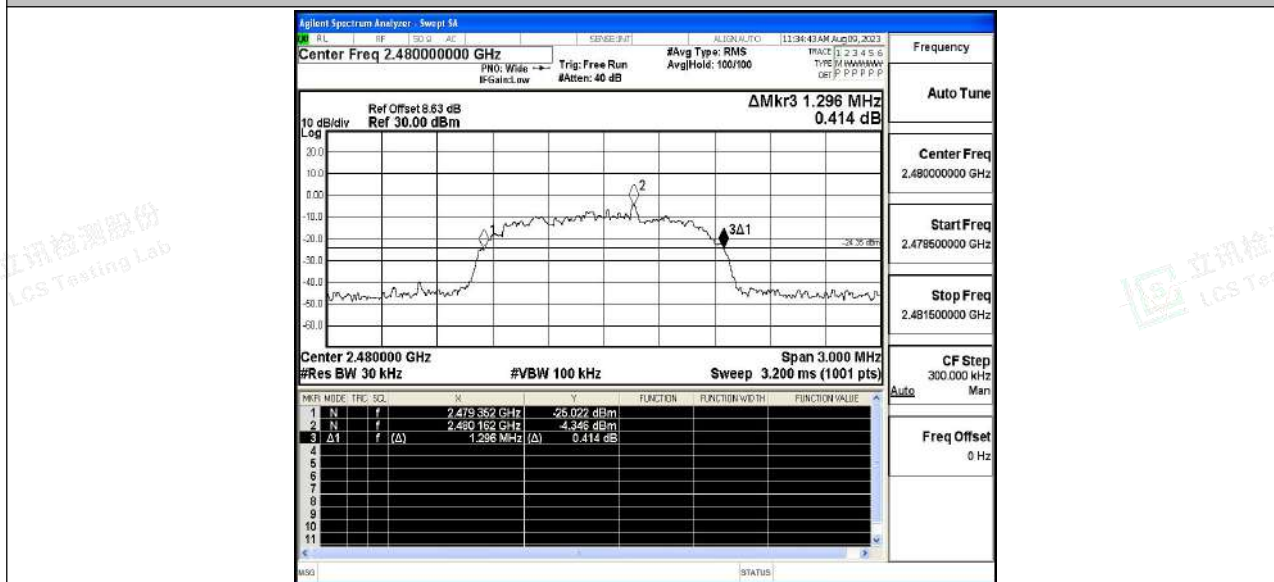


2DH5_Ant1_2441



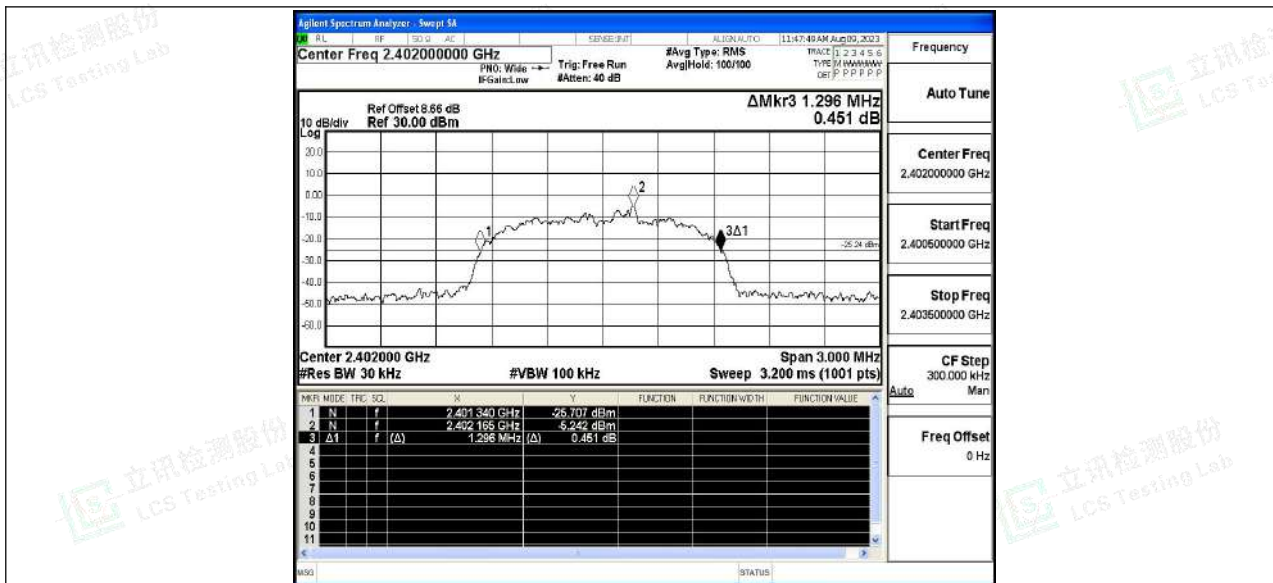


2DH5_Ant1_2480

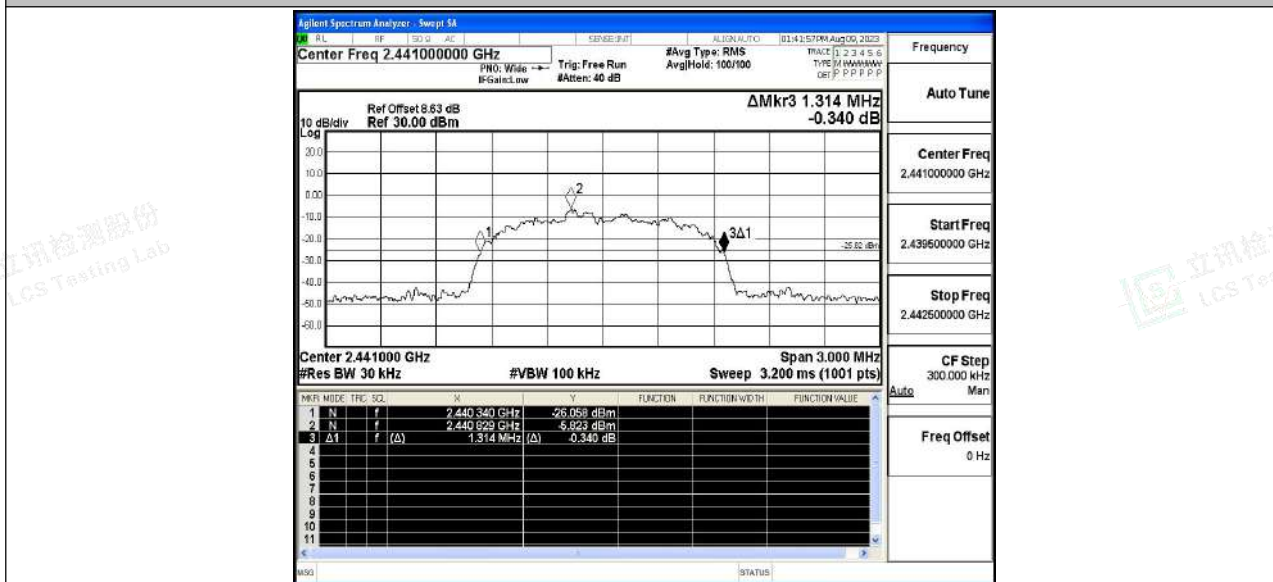


3DH5_Ant1_2402



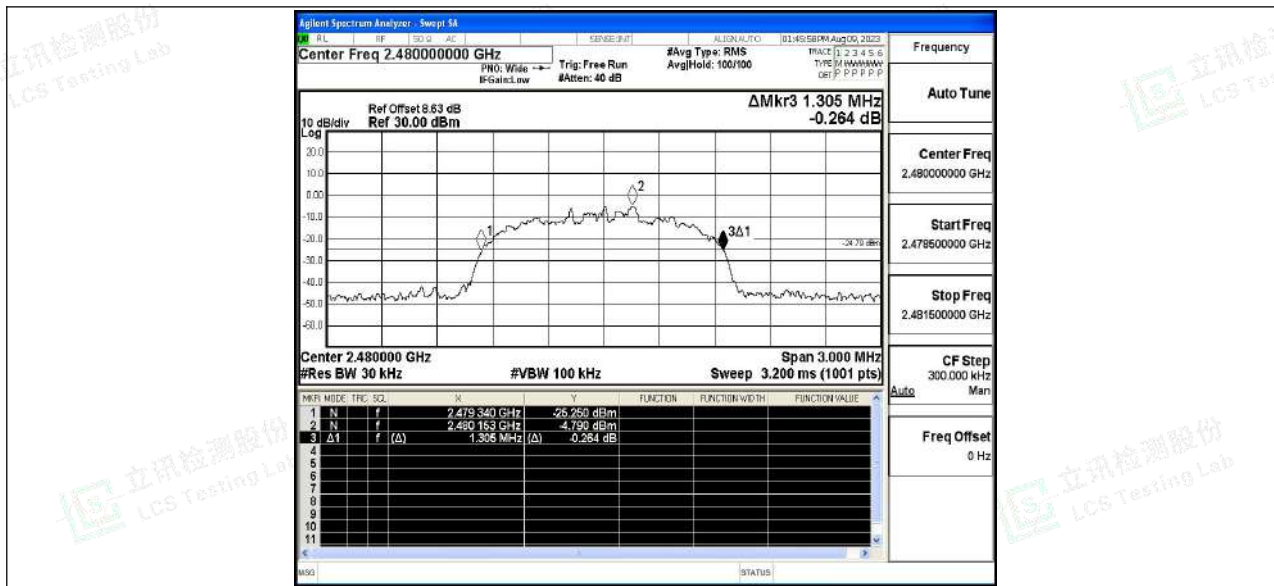


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum conducted output power

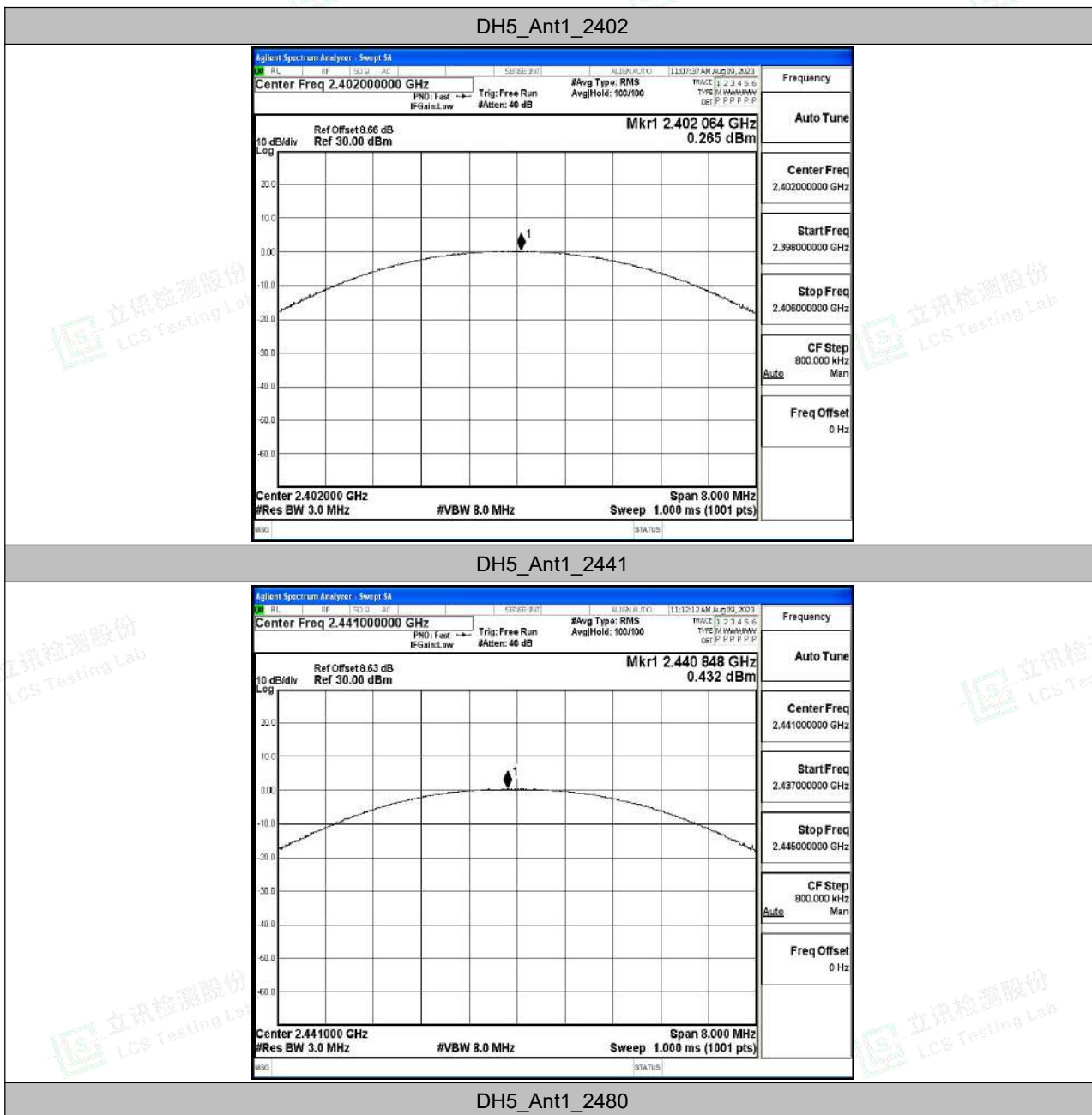
Test Result

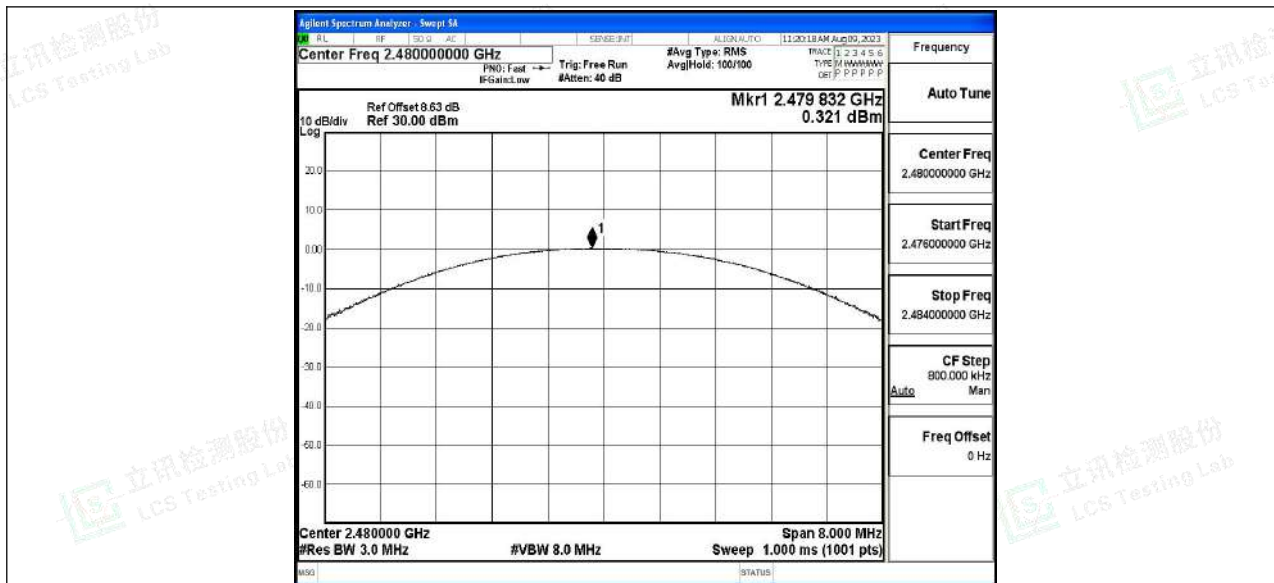
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.27	≤20.97	PASS
		2441	0.43	≤20.97	PASS
		2480	0.32	≤20.97	PASS
2DH5	Ant1	2402	-0.25	≤20.97	PASS
		2441	-0.19	≤20.97	PASS
		2480	0.31	≤20.97	PASS
3DH5	Ant1	2402	-0.07	≤20.97	PASS
		2441	0.22	≤20.97	PASS
		2480	0.07	≤20.97	PASS



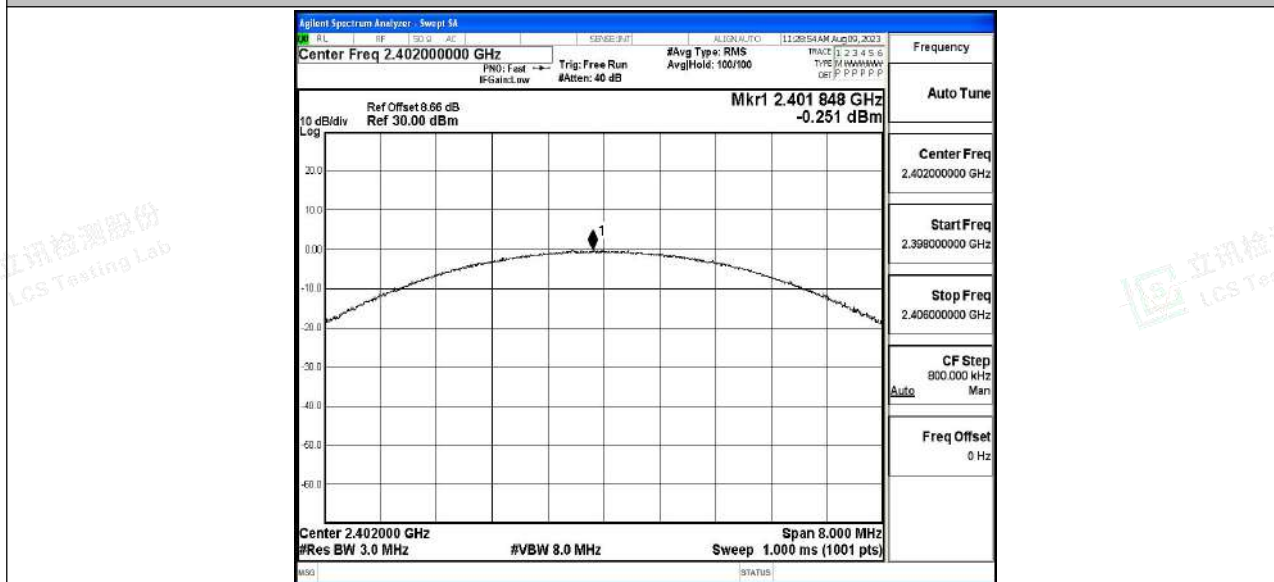


Test Graphs



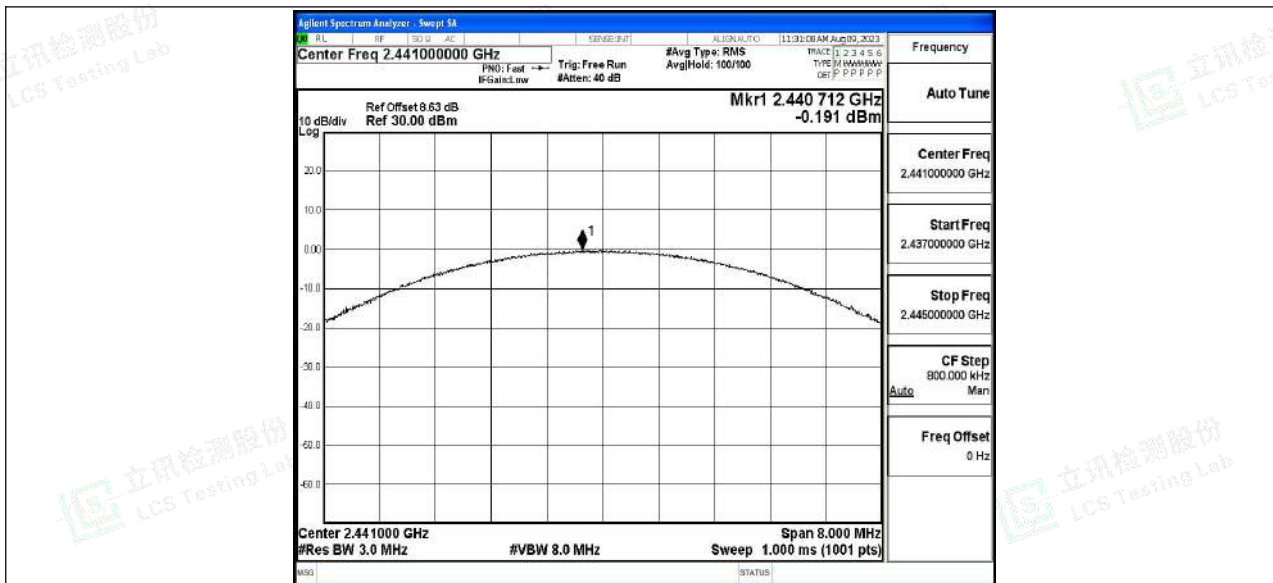


2DH5_Ant1_2402

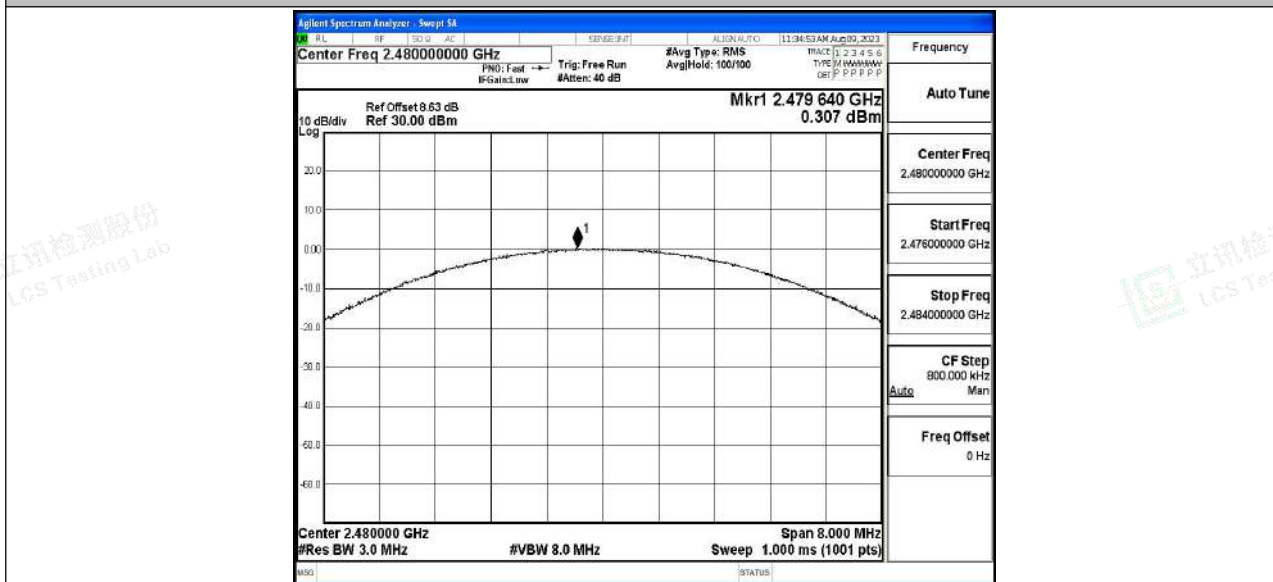


2DH5_Ant1_2441



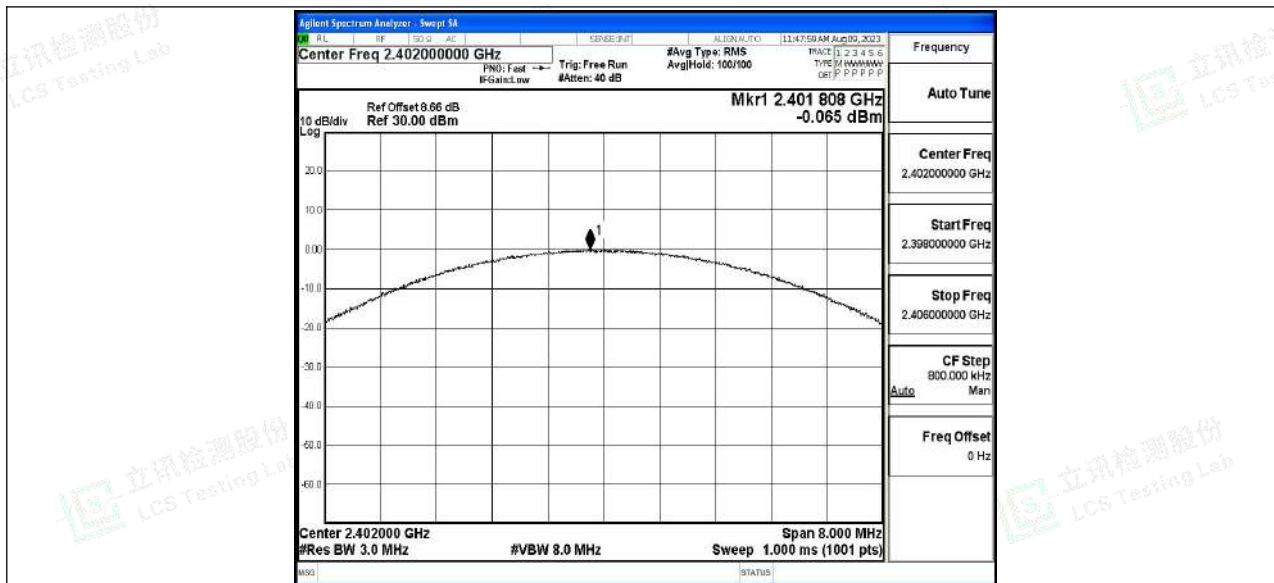


2DH5_Ant1_2480

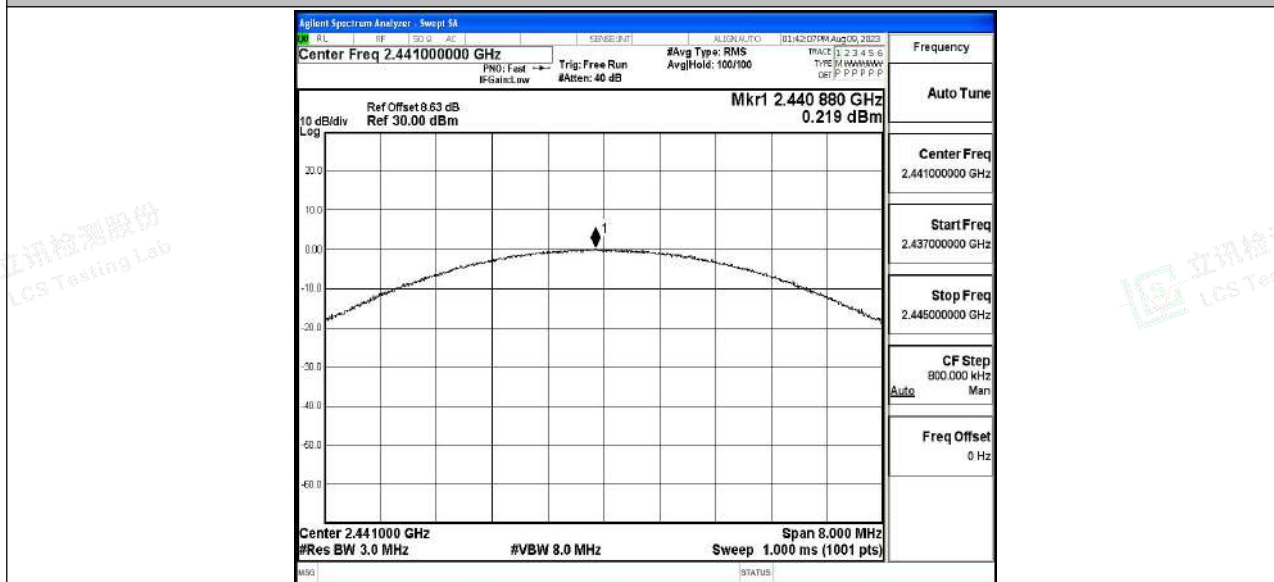


3DH5_Ant1_2402



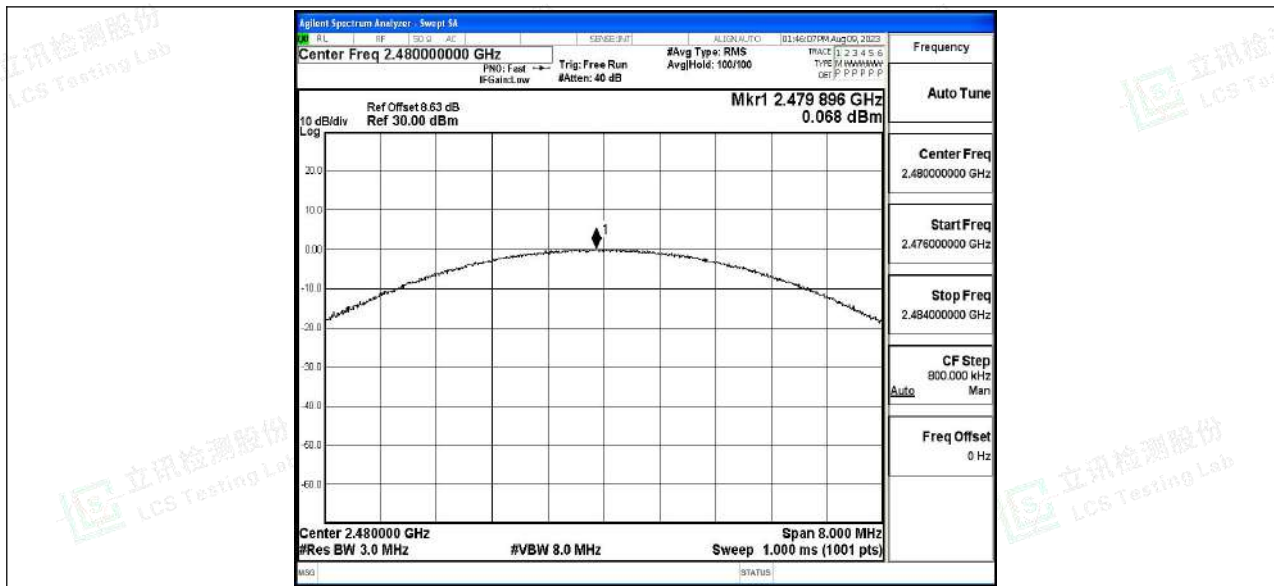


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

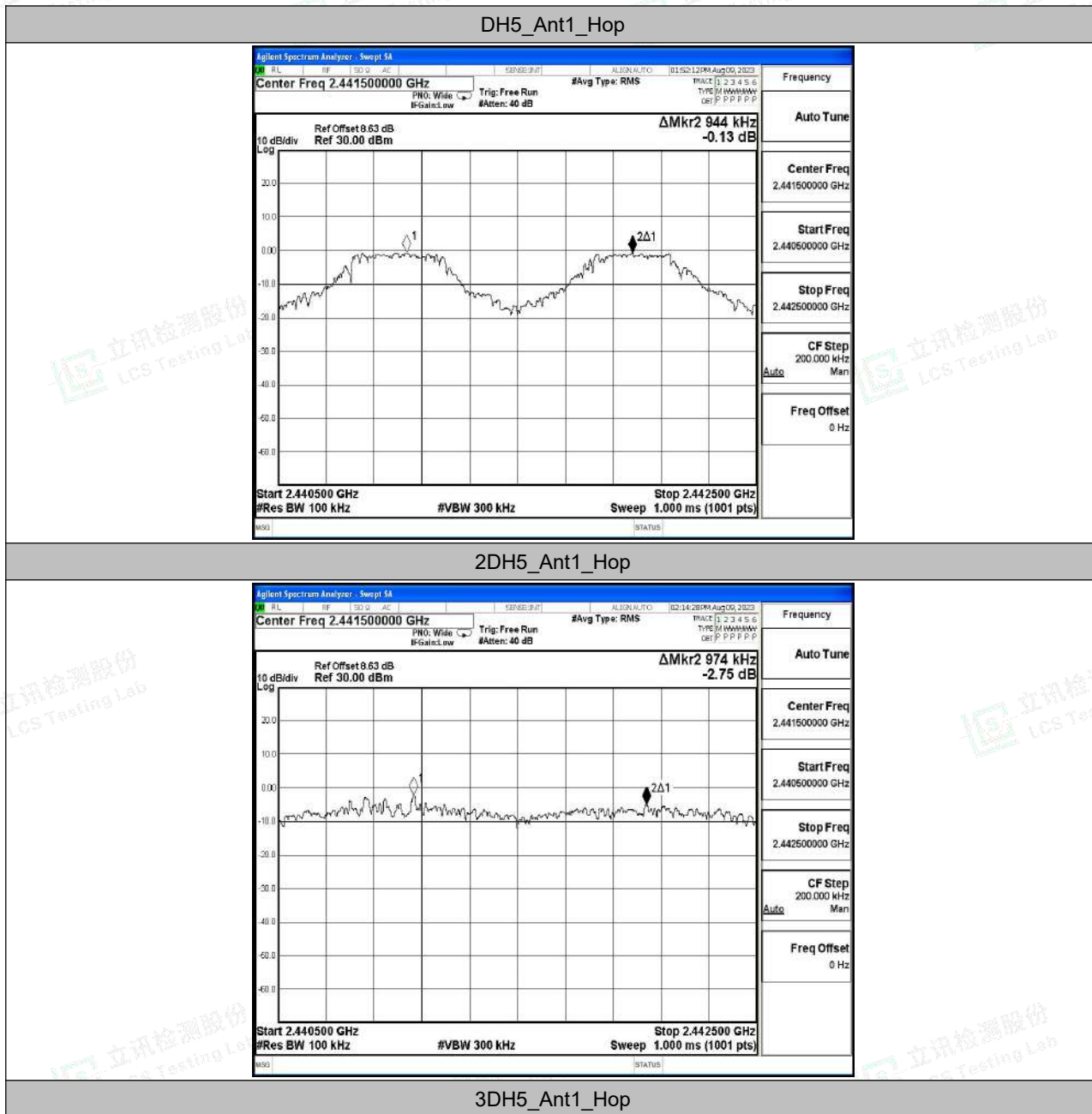
Test Result

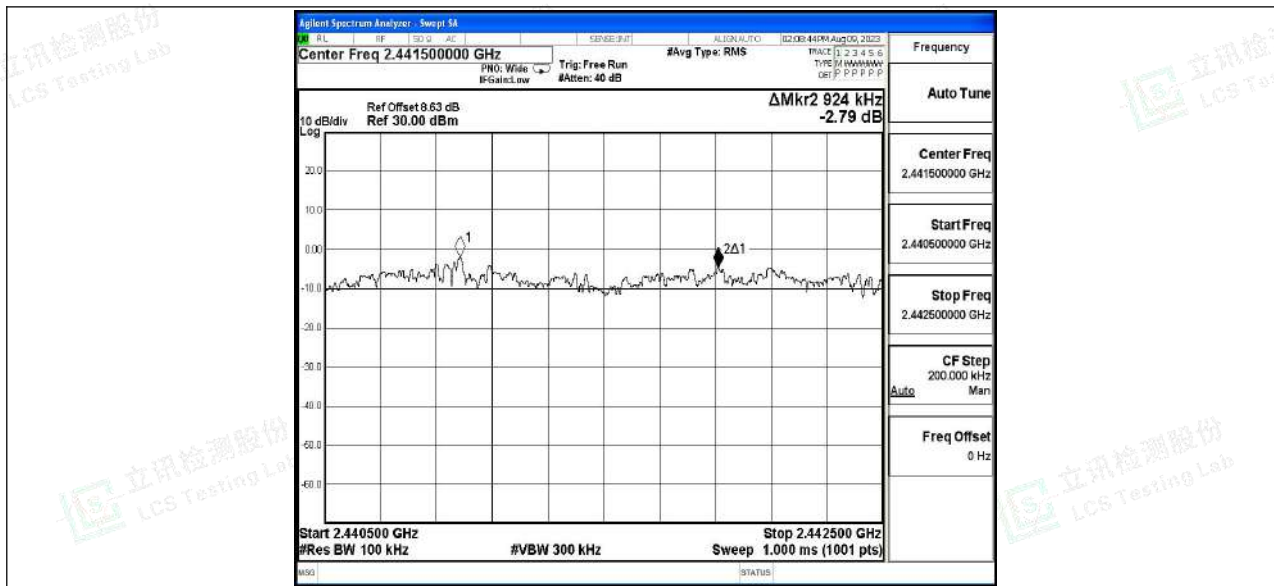
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.944	≥0.684	PASS
2DH5	Ant1	Hop	0.974	≥0.884	PASS
3DH5	Ant1	Hop	0.924	≥0.876	PASS





Test Graphs







A.4 Time of occupancy

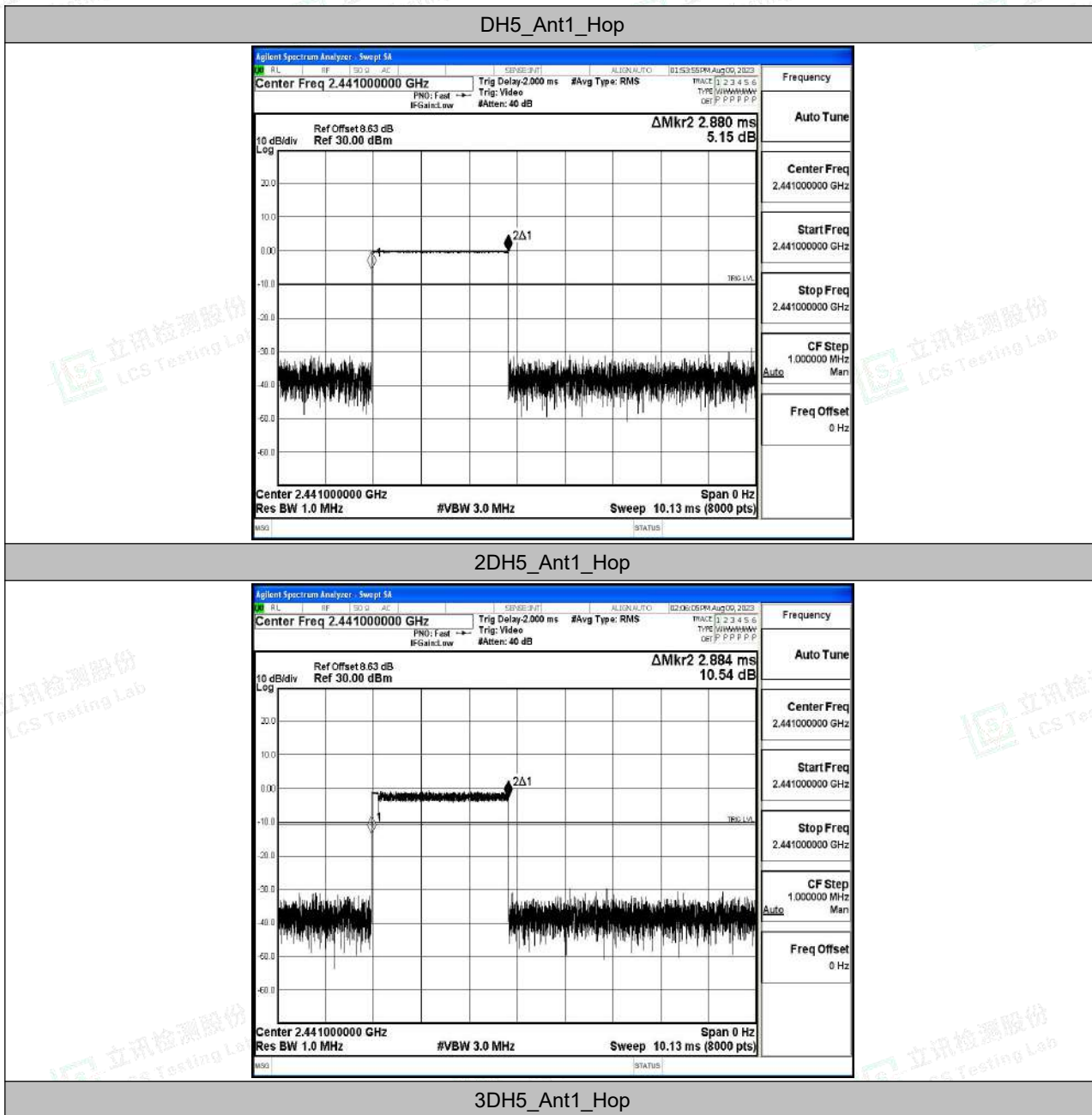
Test Result

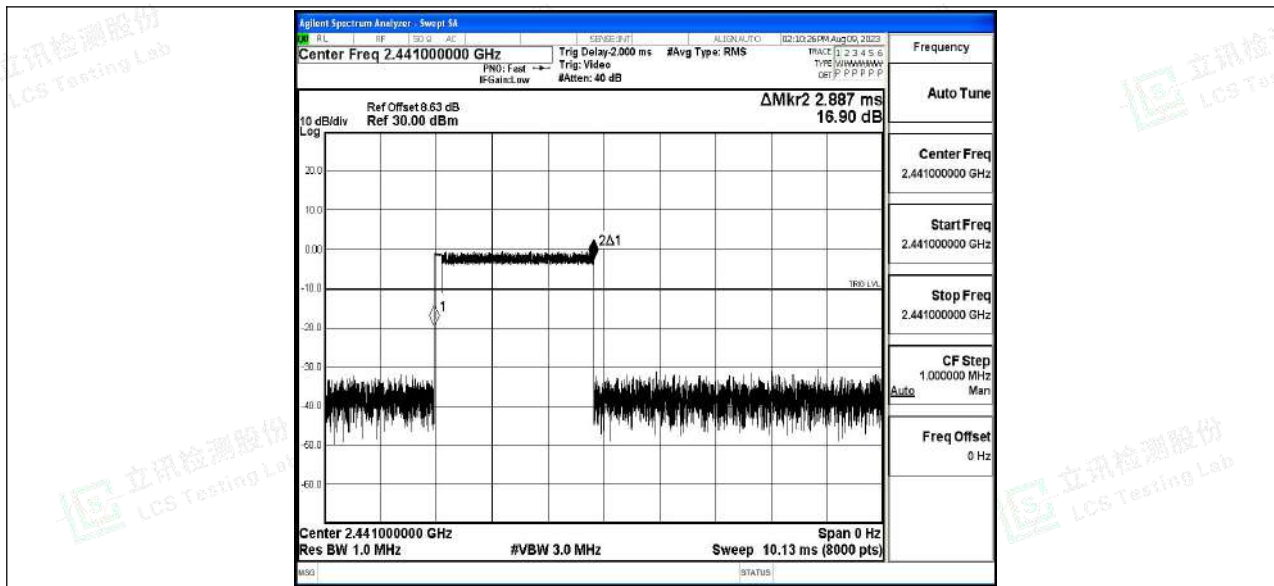
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.887	106.67	0.308	≤0.4	PASS





Test Graphs







A.5 Number of hopping channels

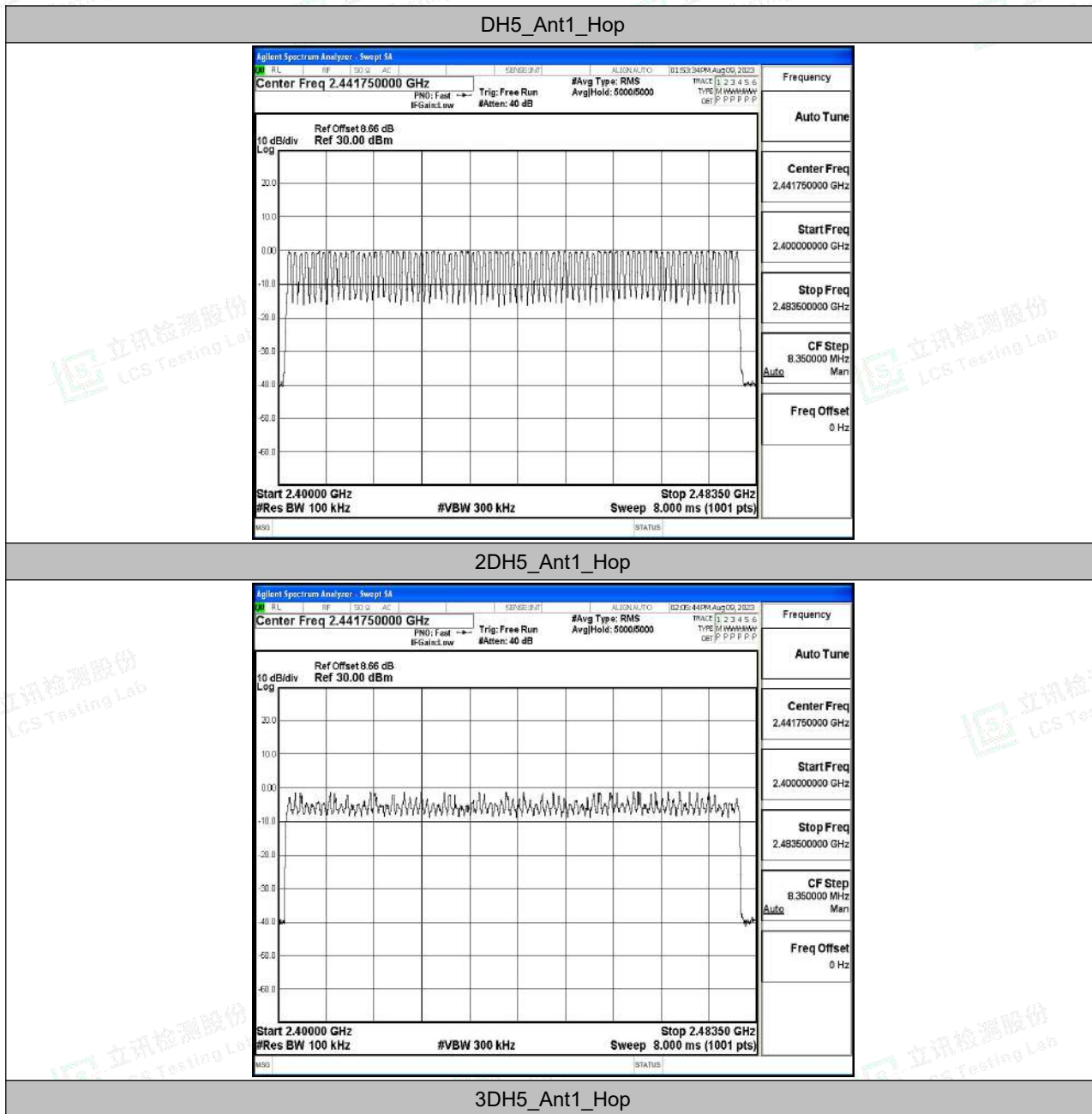
Test Result

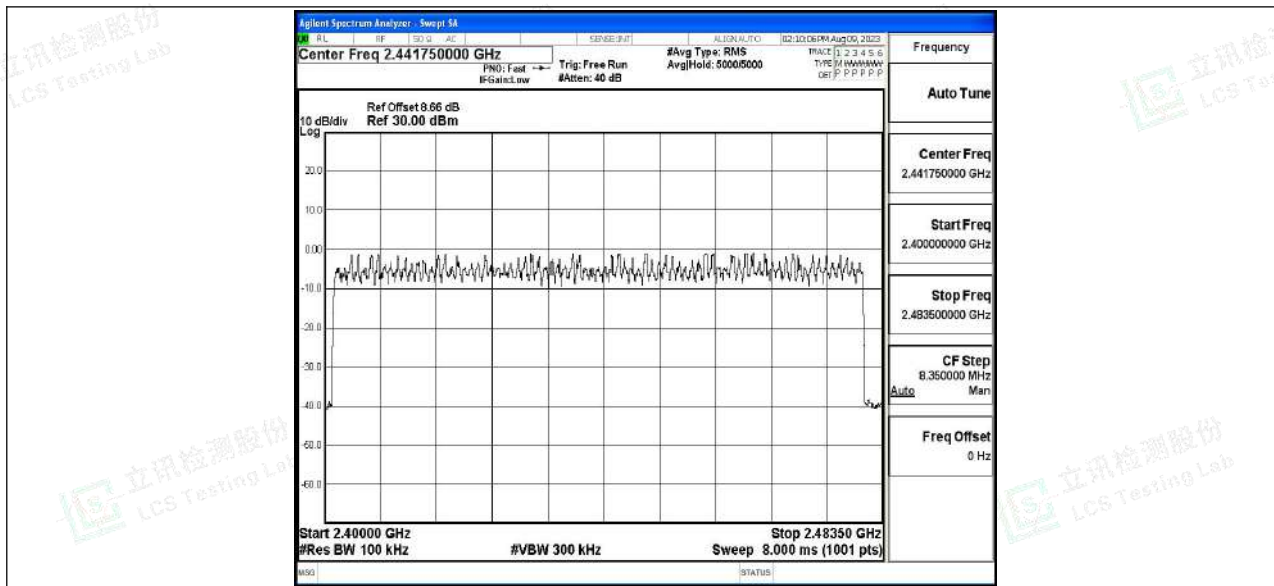
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

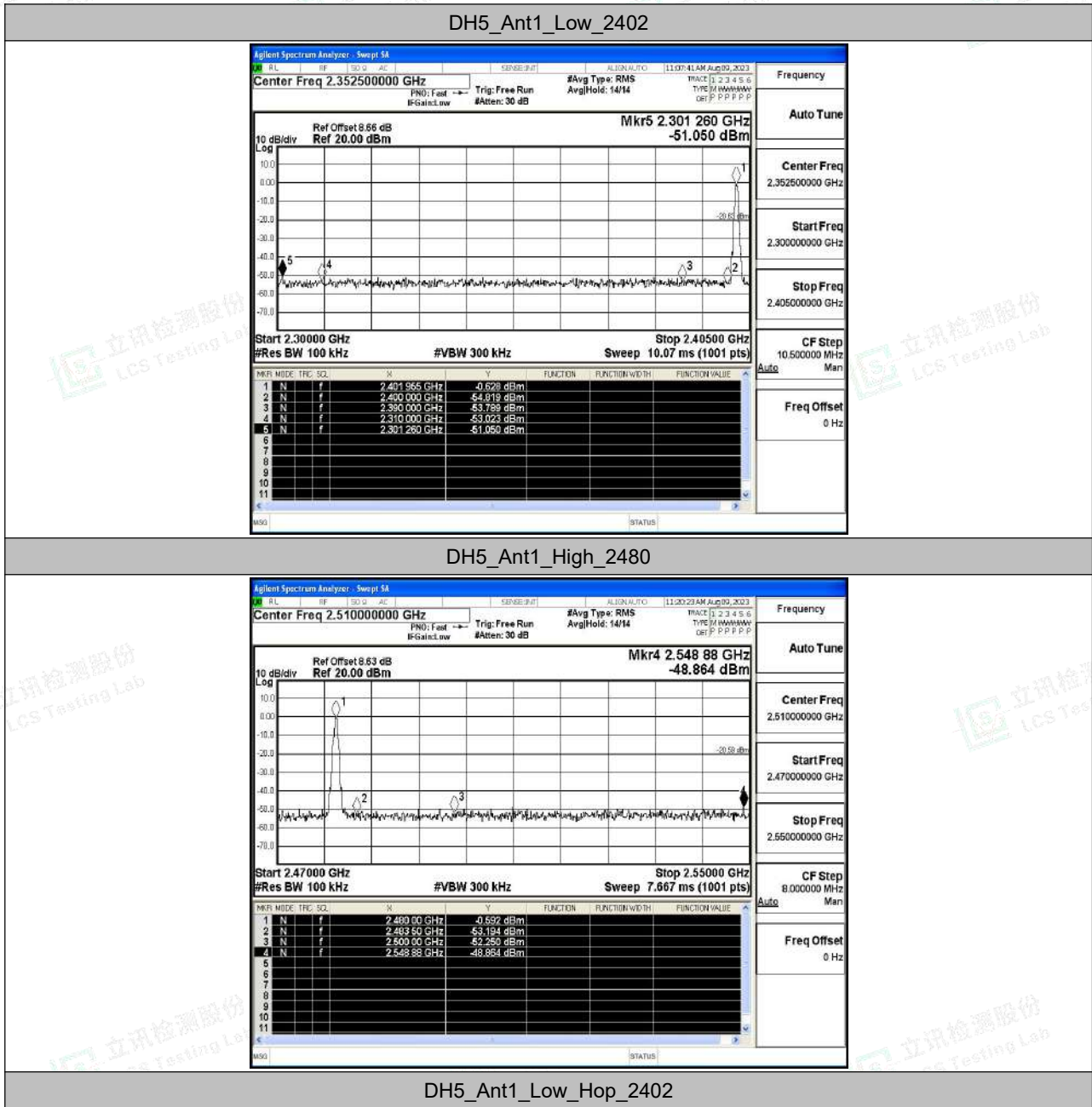
Test Result

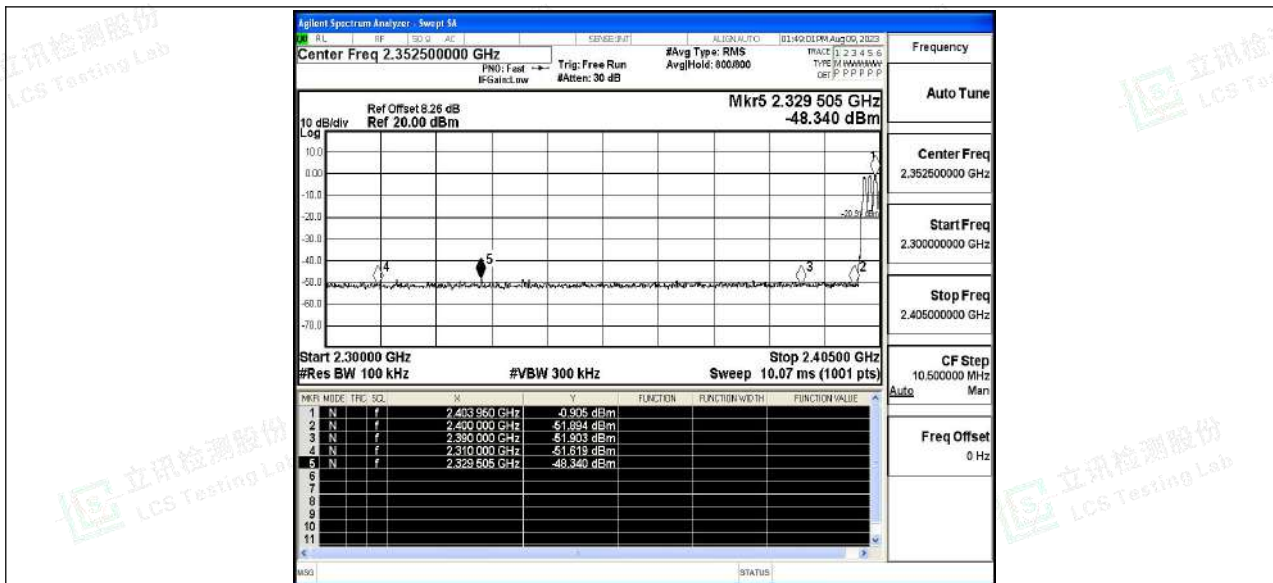
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.63	-51.05	≤-20.63	PASS
		High	2480	-0.59	-48.86	≤-20.59	PASS
		Low	Hop_2402	-0.91	-48.34	≤-20.91	PASS
		High	Hop_2480	-0.23	-46.21	≤-20.23	PASS
2DH5	Ant1	Low	2402	-4.65	-49.39	≤-24.65	PASS
		High	2480	-4.99	-49.45	≤-24.99	PASS
		Low	Hop_2402	-3.59	-47.89	≤-23.59	PASS
		High	Hop_2480	-2.52	-48.01	≤-22.52	PASS
3DH5	Ant1	Low	2402	-6.29	-50.25	≤-26.29	PASS
		High	2480	-5.49	-49.25	≤-25.49	PASS
		Low	Hop_2402	-4.36	-49.02	≤-24.36	PASS
		High	Hop_2480	-1.15	-47.74	≤-21.15	PASS



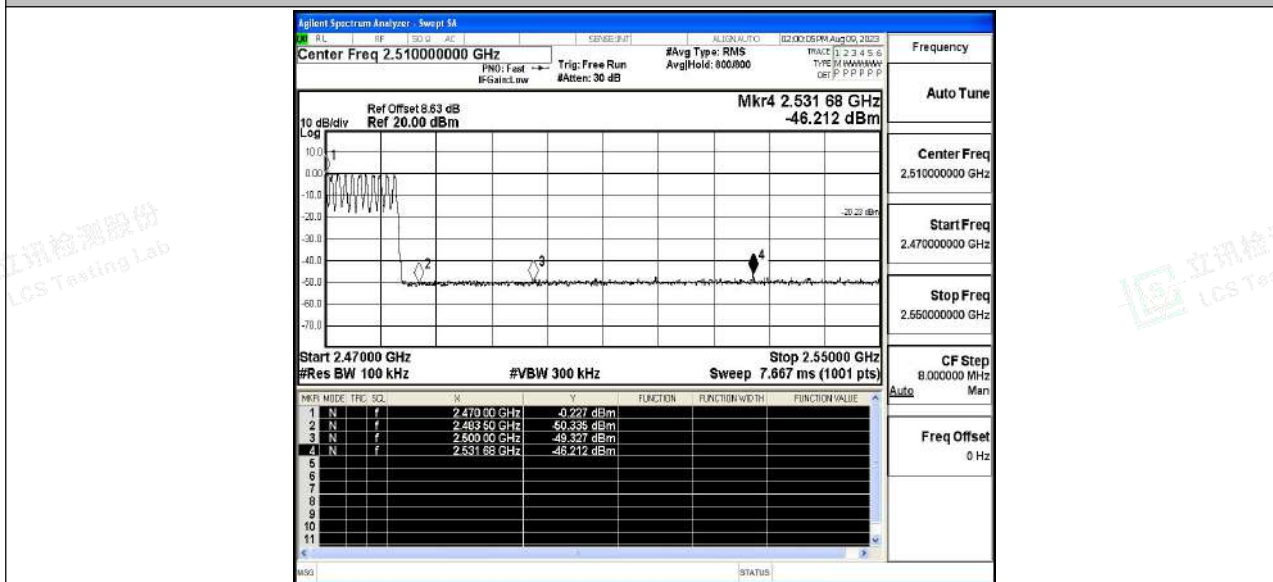


Test Graphs



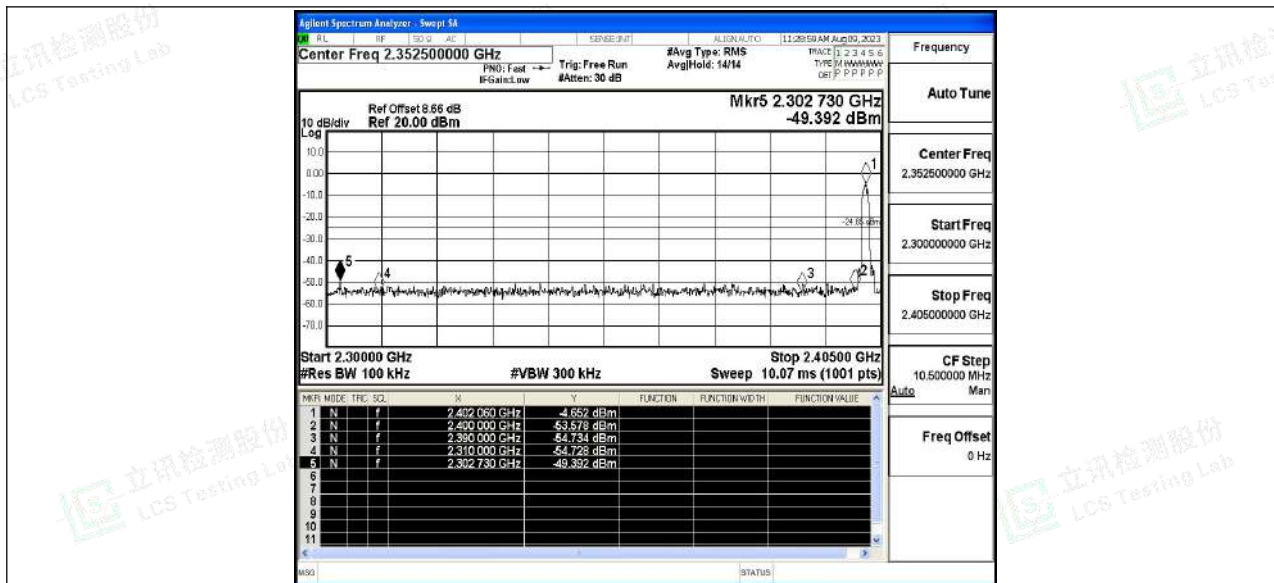


DH5_Ant1_High_Hop_2480

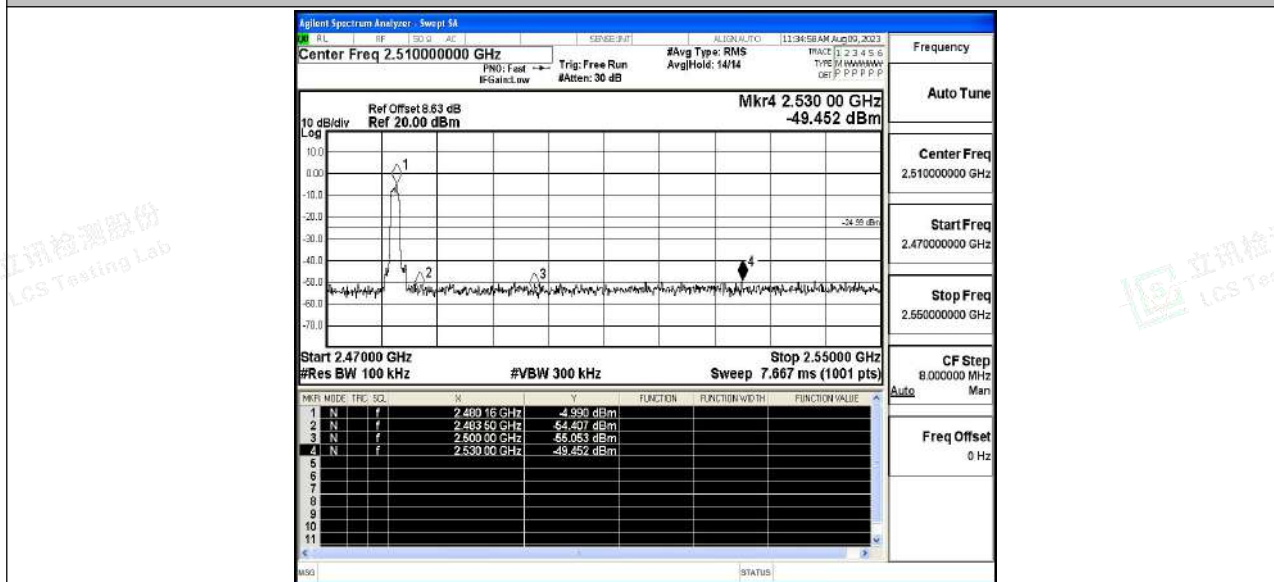


2DH5_Ant1_Low_2402



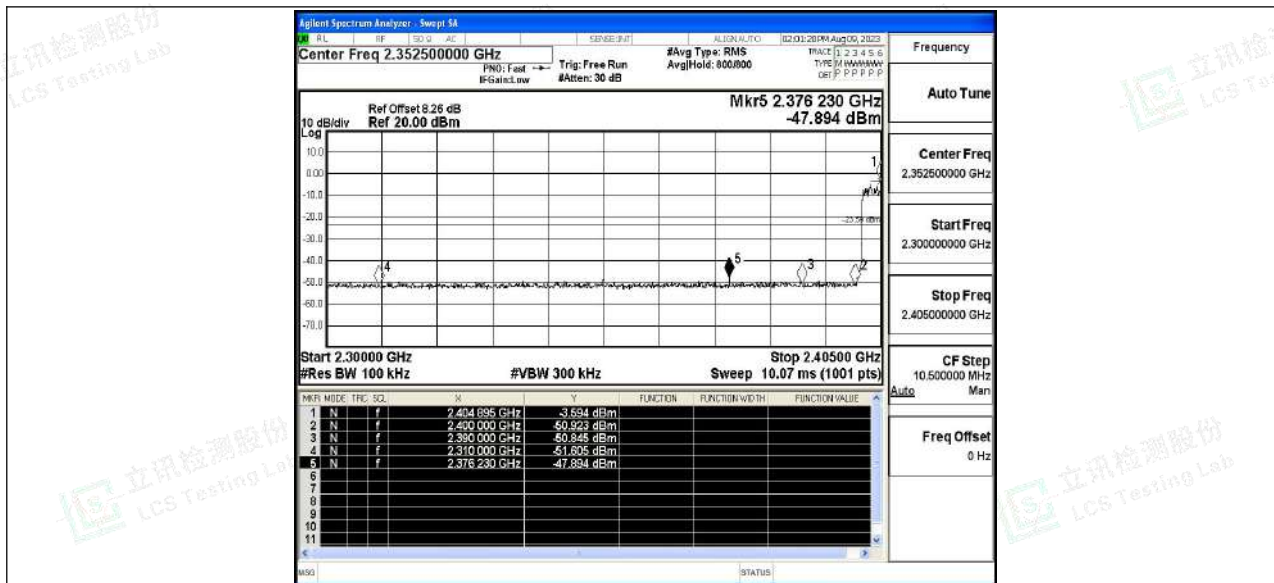


2DH5_Ant1_High_2480

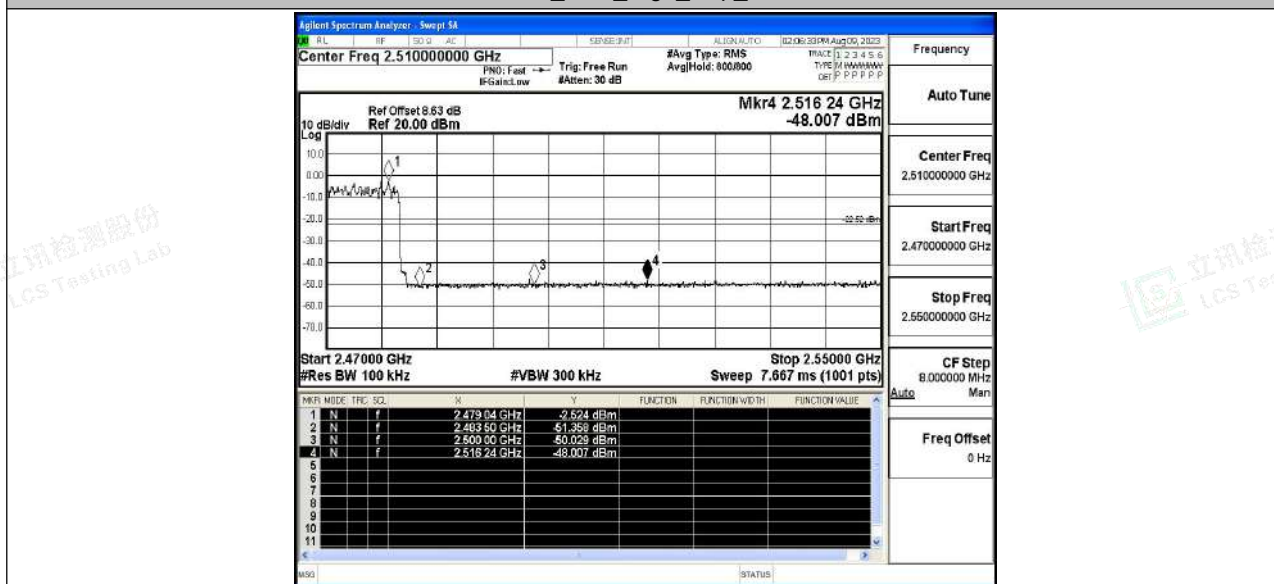


2DH5_Ant1_Low_Hop_2402



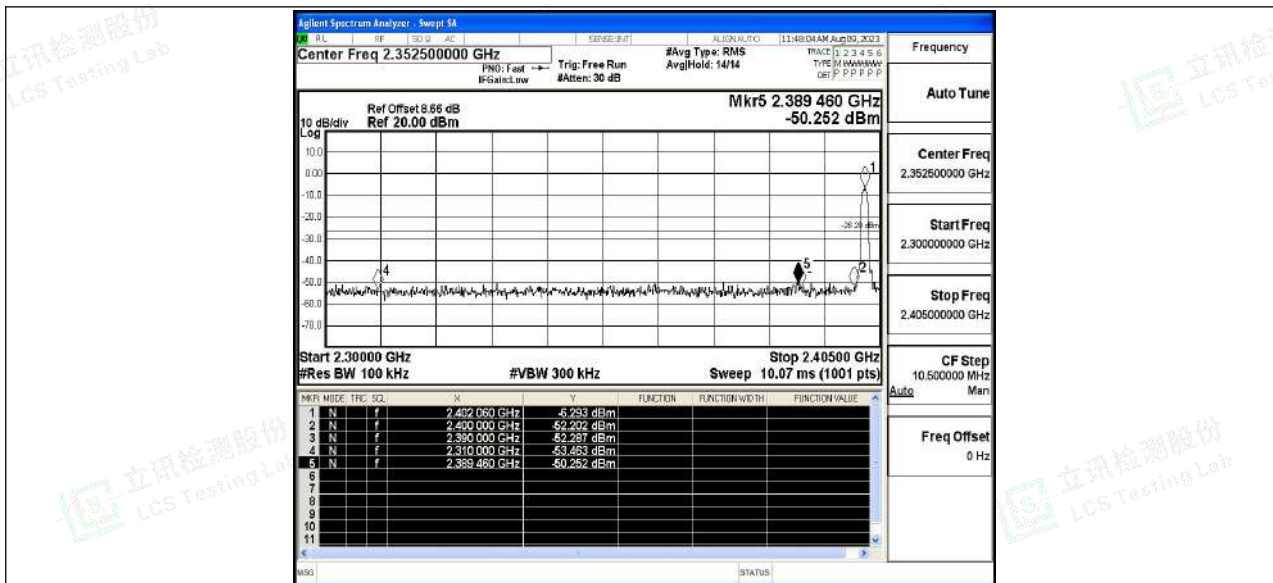


2DH5_Ant1_High_Hop_2480

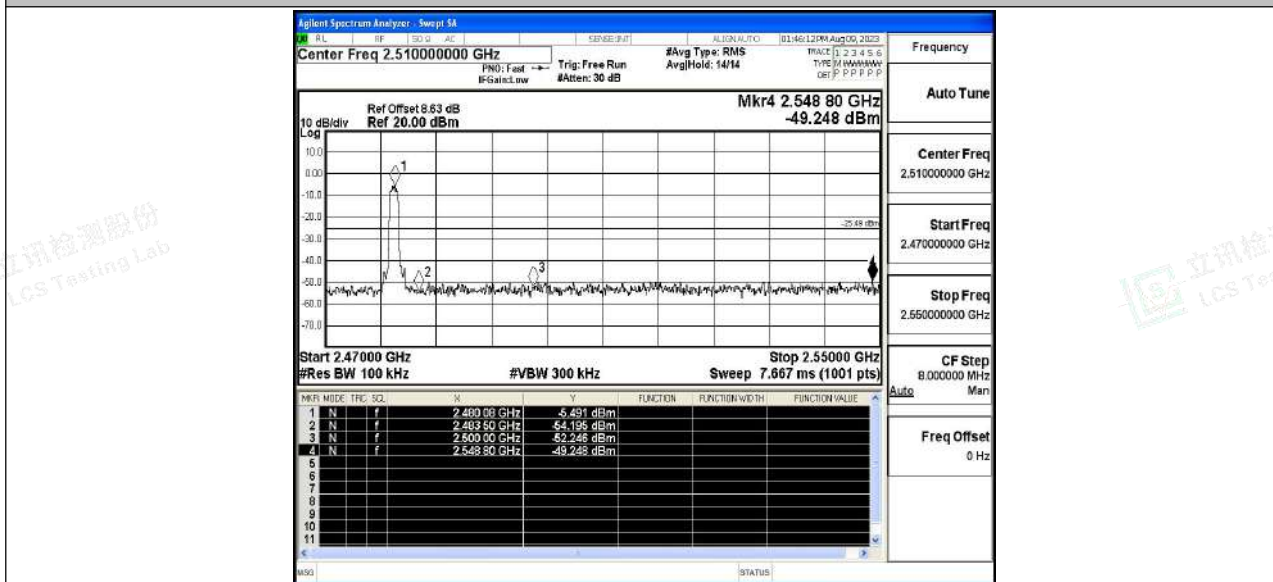


3DH5_Ant1_Low_2402



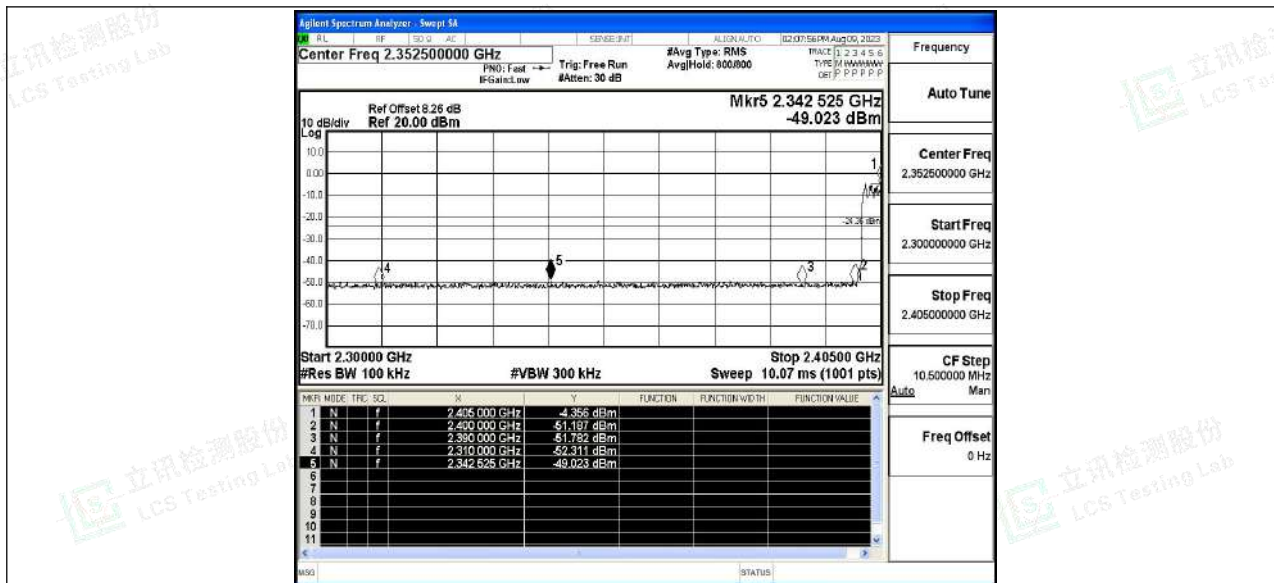


3DH5_Ant1_High_2480

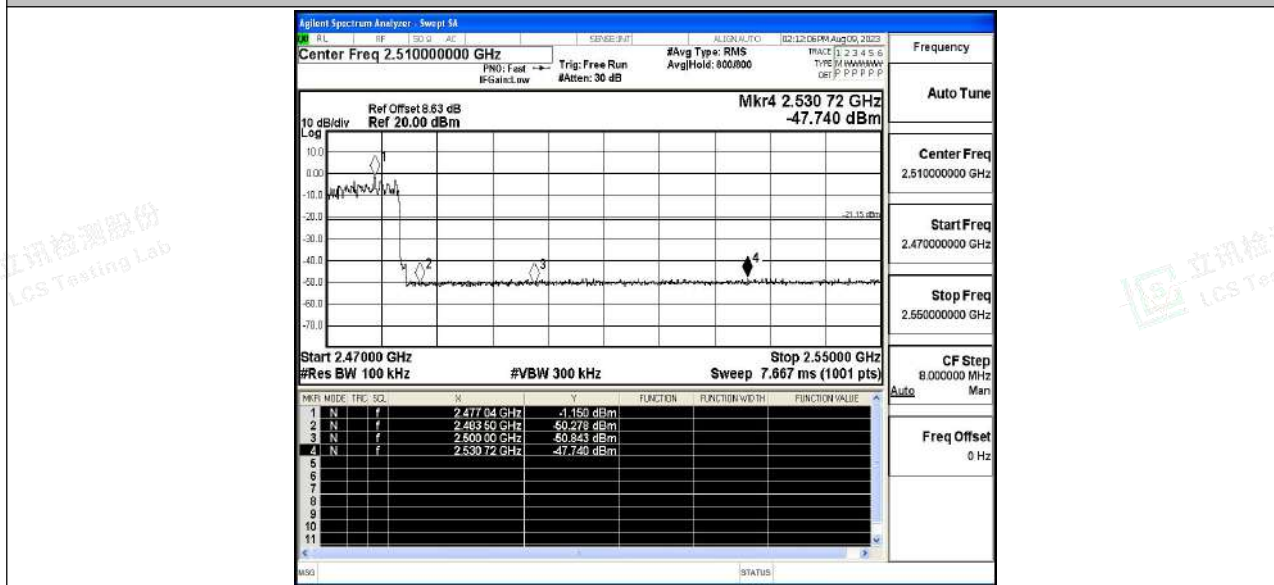


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

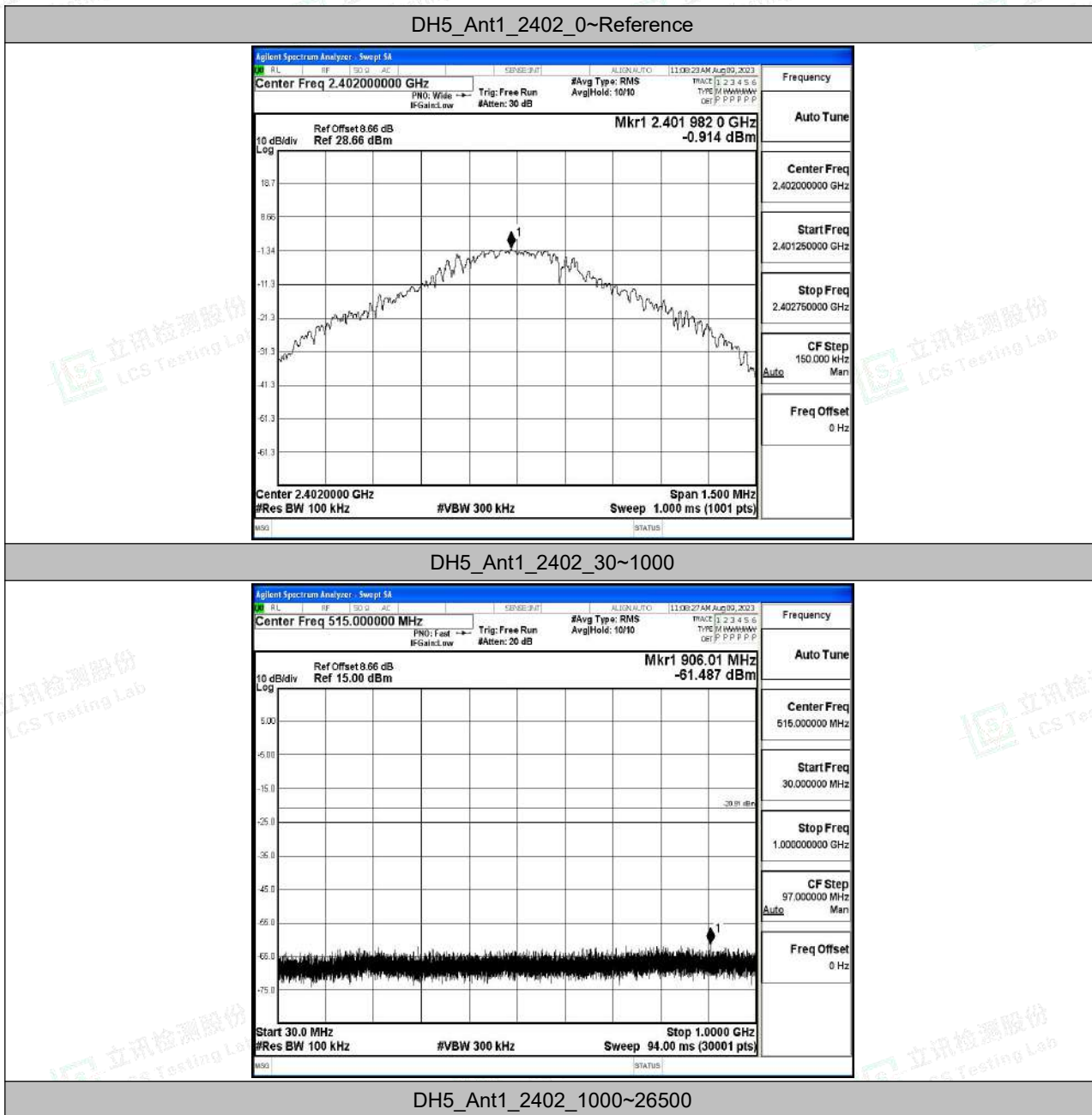
Test Result

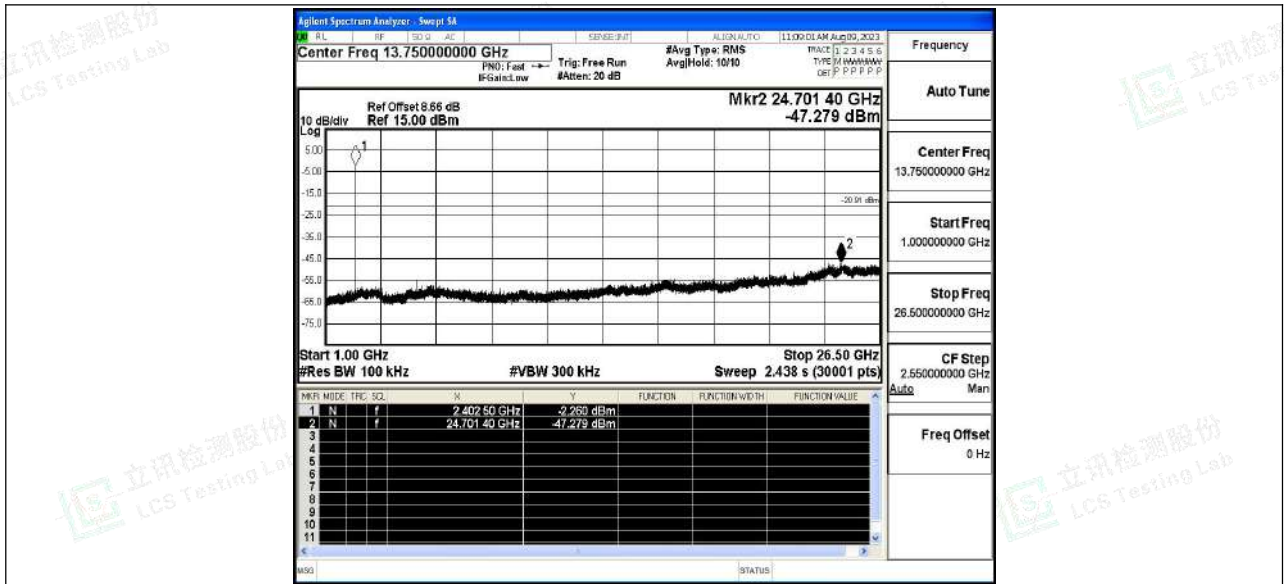
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-61.49	≤-20.91	PASS
			1000~26500	-0.91	-47.28	≤-20.91	PASS
		2441	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-61.04	≤-20.67	PASS
			1000~26500	-0.67	-47.23	≤-20.67	PASS
		2480	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-60.63	≤-21.06	PASS
			1000~26500	-1.06	-46.81	≤-21.06	PASS
2DH5	Ant1	2402	Reference	-3.74	-3.74	---	PASS
			30~1000	-3.74	-61.06	≤-23.74	PASS
			1000~26500	-3.74	-46.94	≤-23.74	PASS
		2441	Reference	-6.07	-6.07	---	PASS
			30~1000	-6.07	-61.17	≤-26.07	PASS
			1000~26500	-6.07	-45.7	≤-26.07	PASS
		2480	Reference	-4.85	-4.85	---	PASS
			30~1000	-4.85	-61.61	≤-24.85	PASS
			1000~26500	-4.85	-46.94	≤-24.85	PASS
3DH5	Ant1	2402	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-60.56	≤-25.47	PASS
			1000~26500	-5.47	-47.24	≤-25.47	PASS
		2441	Reference	-5.28	-5.28	---	PASS
			30~1000	-5.28	-60.3	≤-25.28	PASS
			1000~26500	-5.28	-46.71	≤-25.28	PASS
		2480	Reference	-4.65	-4.65	---	PASS
			30~1000	-4.65	-60.68	≤-24.65	PASS
			1000~26500	-4.65	-46.3	≤-24.65	PASS



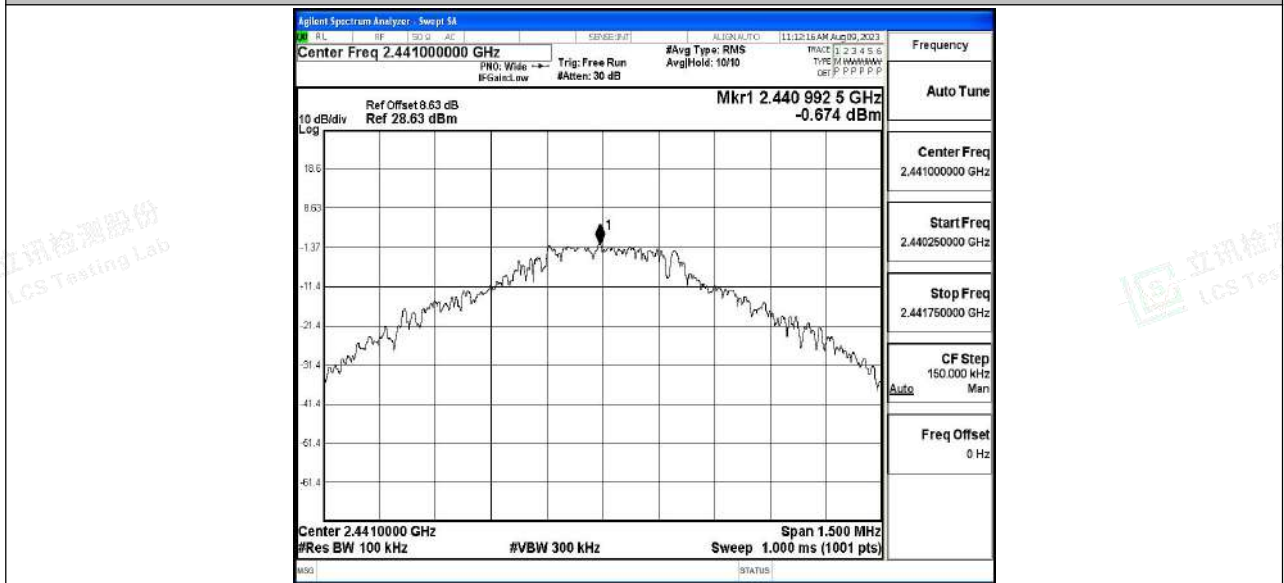


Test Graphs



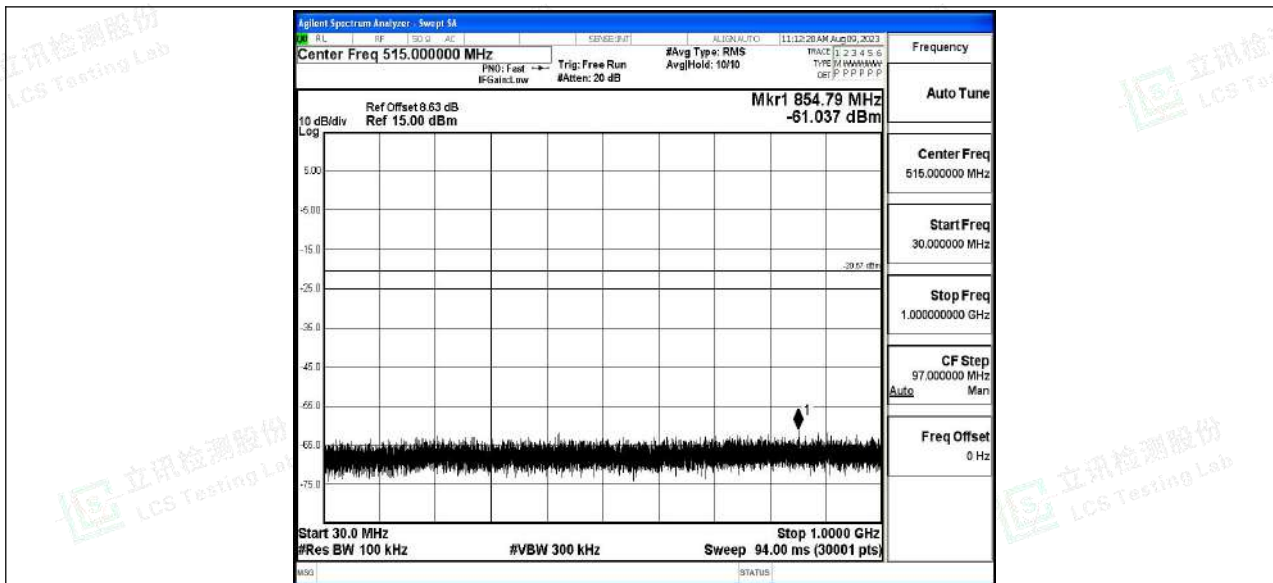


DH5_Ant1_2441_0~Reference

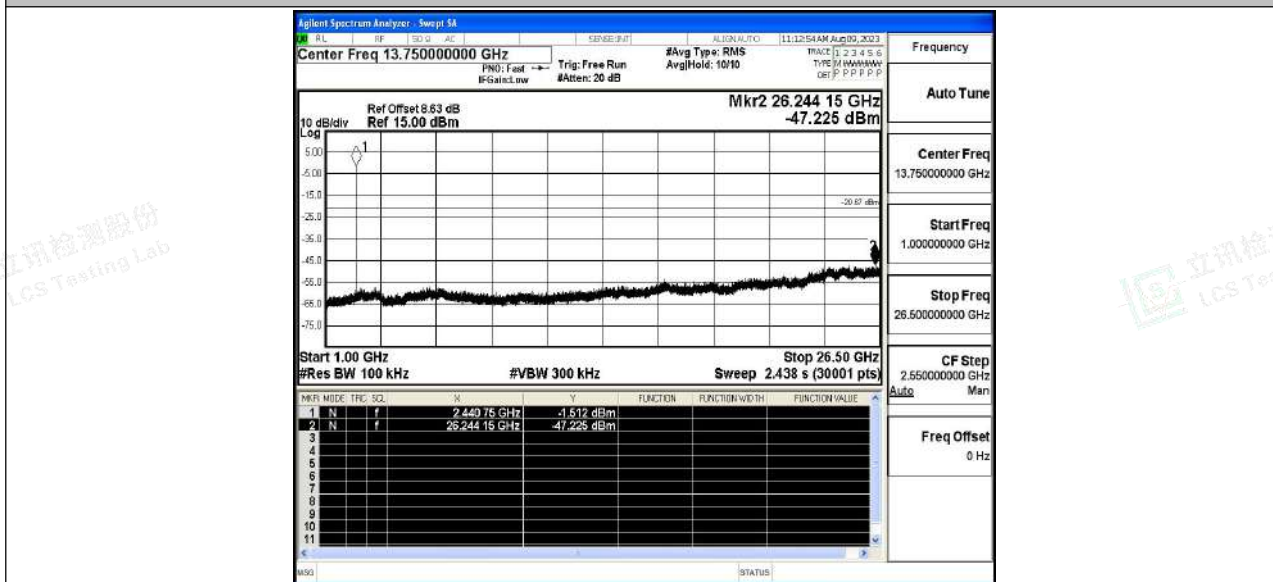


DH5_Ant1_2441_30~1000



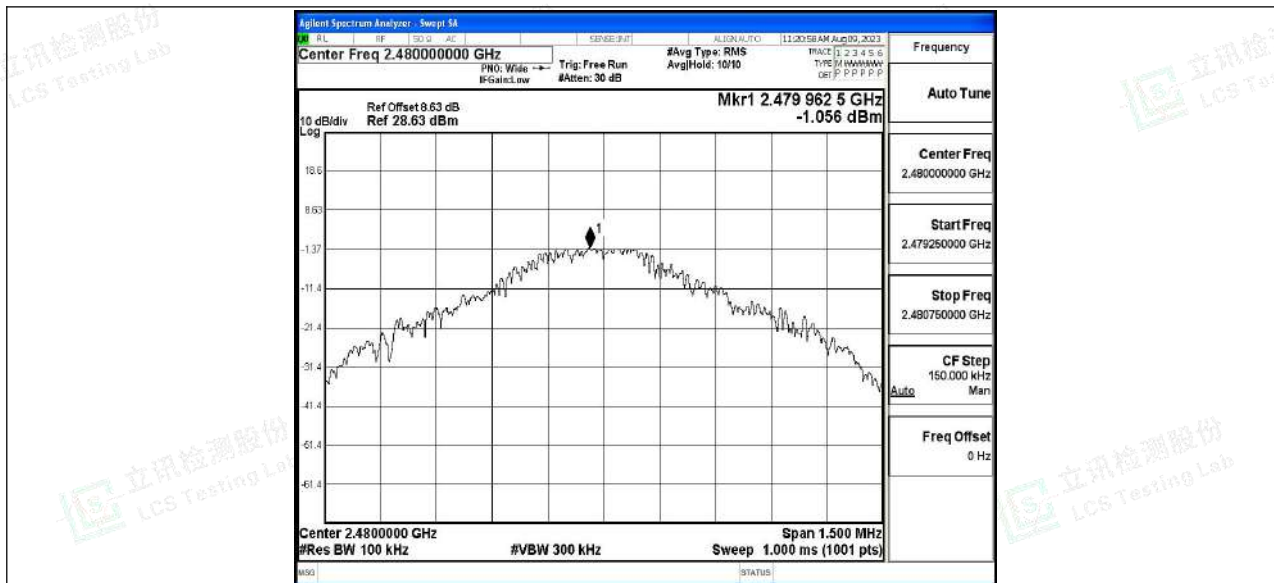


DH5_Ant1_2441_1000~26500

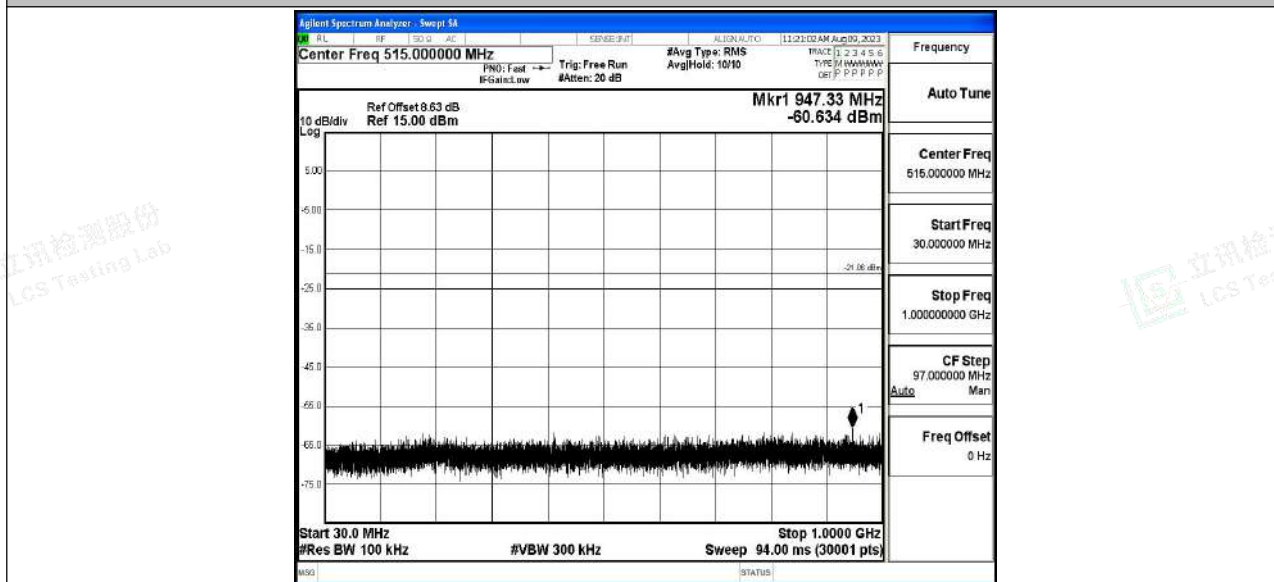


DH5_Ant1_2480_0~Reference



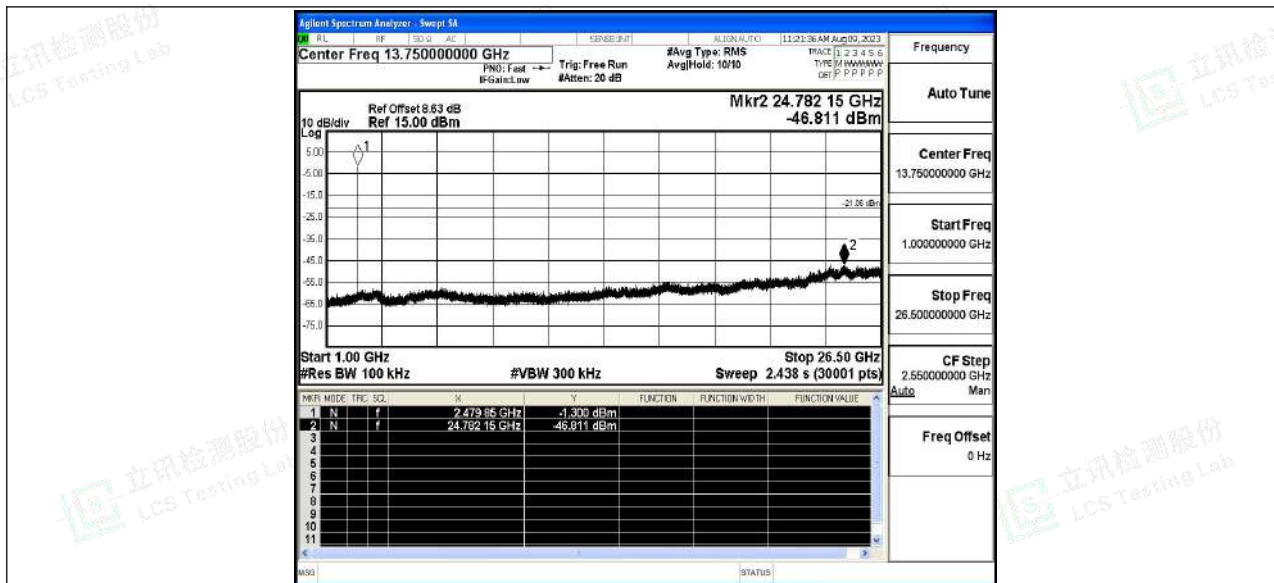


DH5_Ant1_2480_30~1000

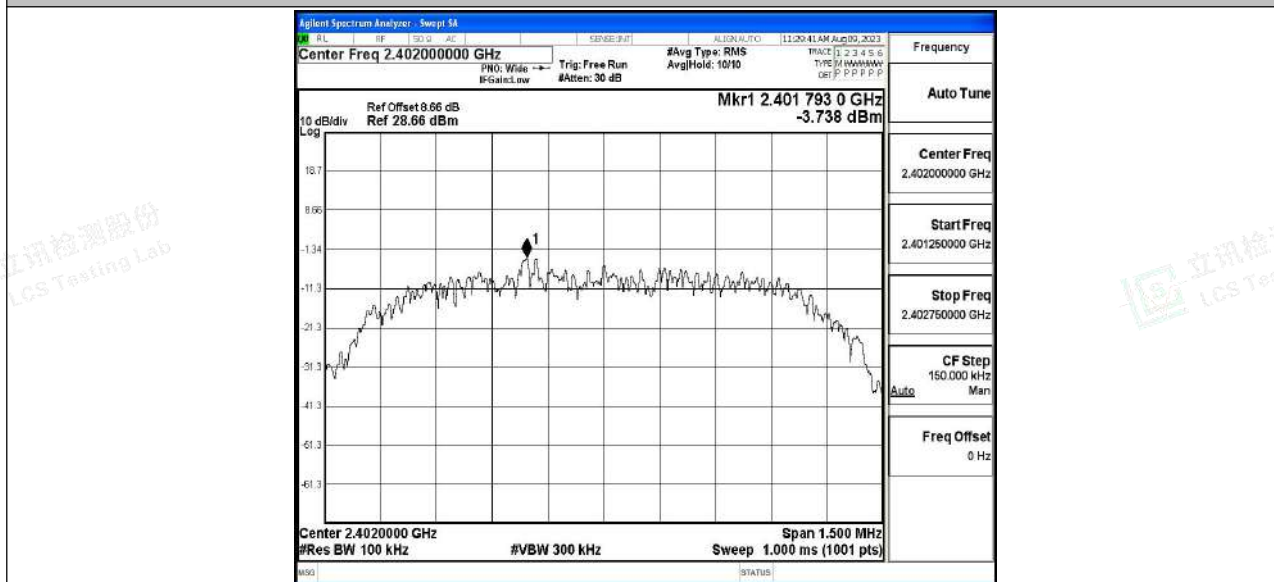


DH5_Ant1_2480_1000~26500



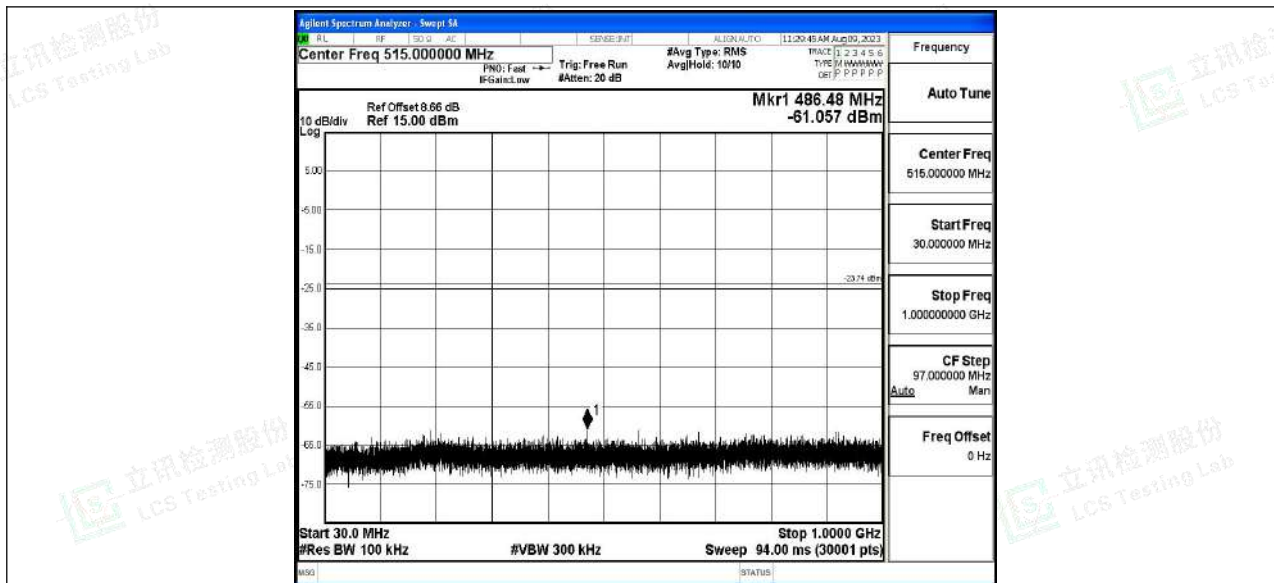


2DH5_Ant1_2402_0~Reference

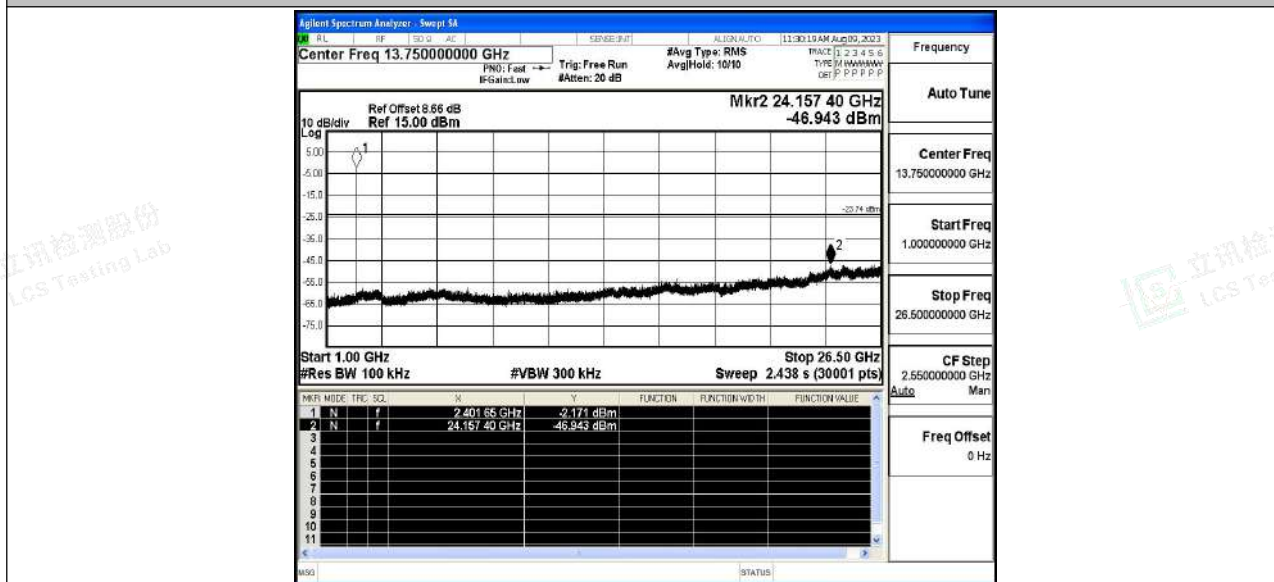


2DH5_Ant1_2402_30~1000



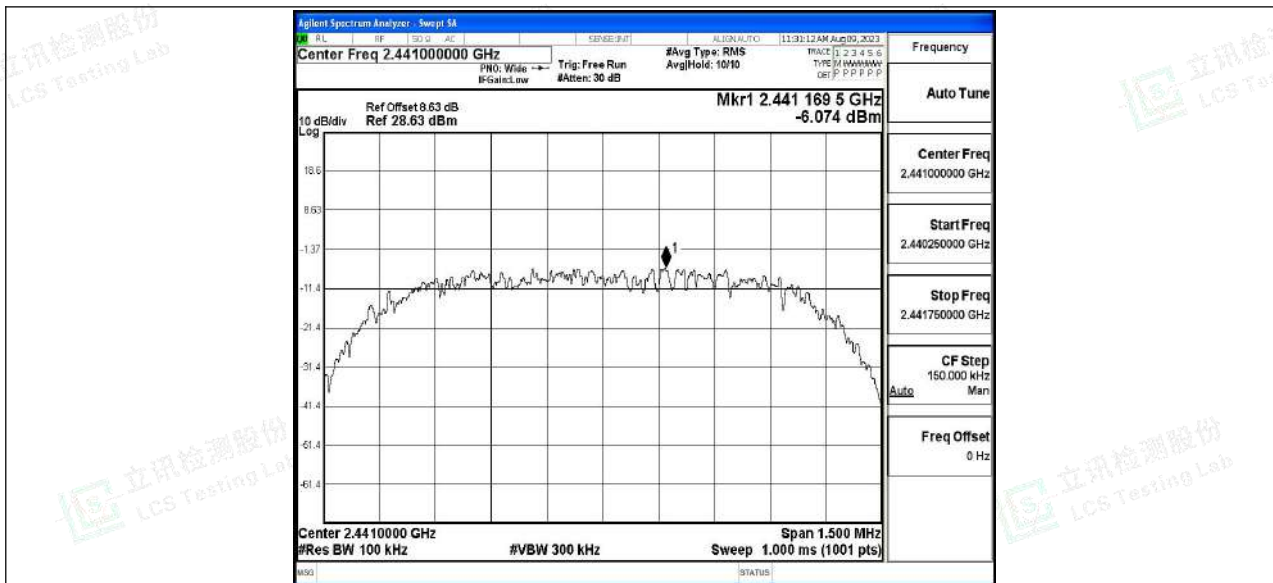


2DH5_Ant1_2402_1000~26500

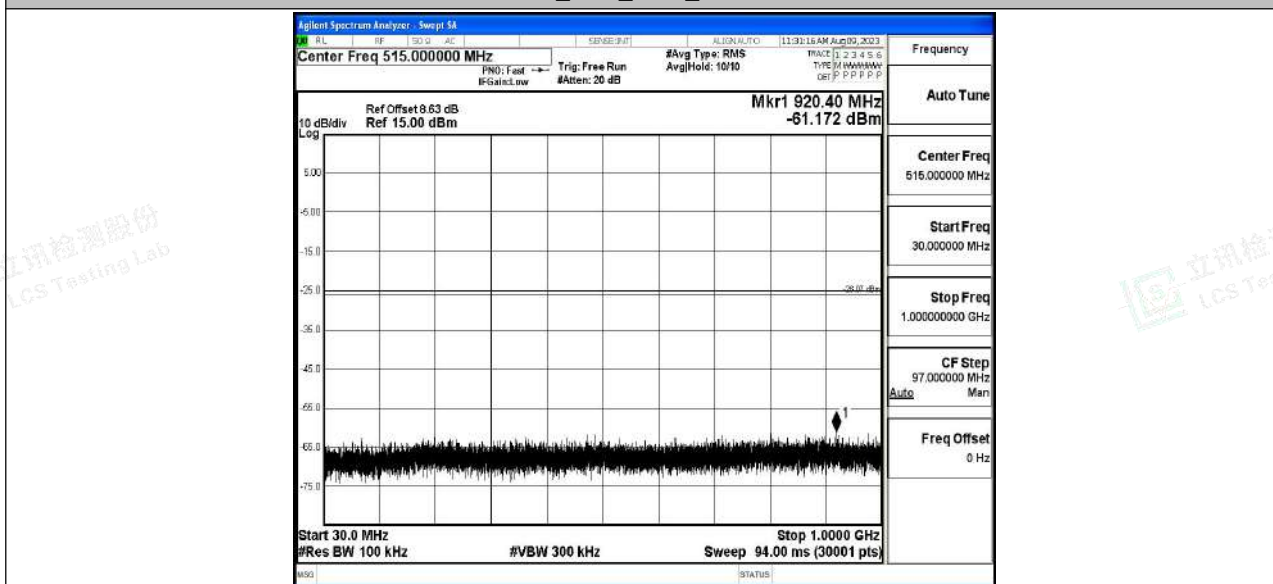


2DH5_Ant1_2441_0~Reference



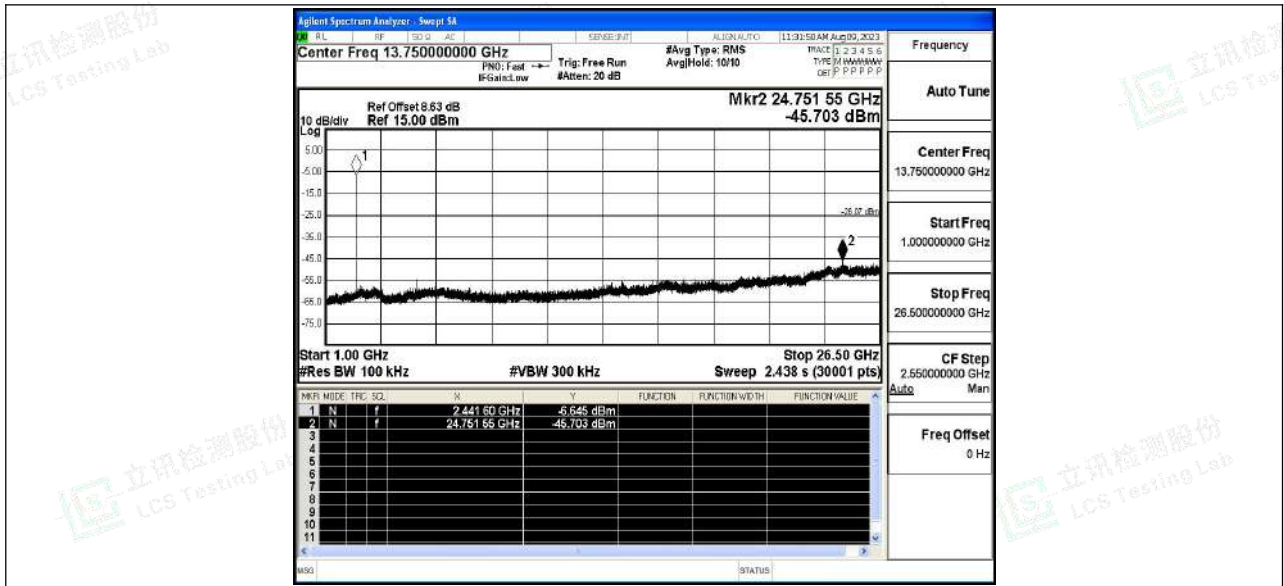


2DH5_Ant1_2441_30~1000

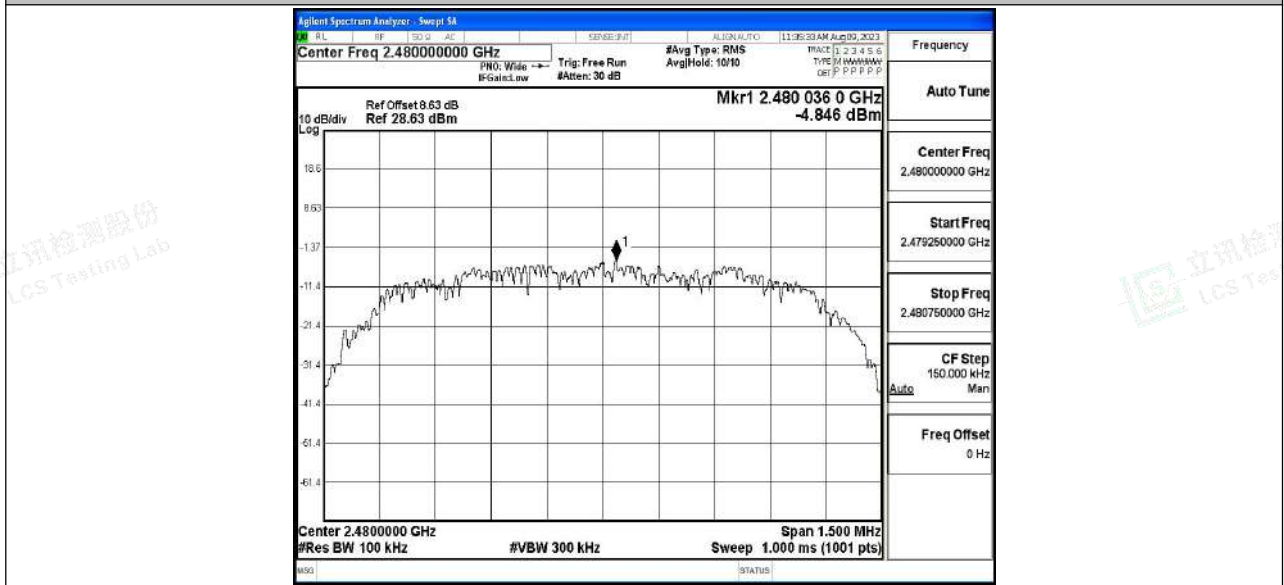


2DH5_Ant1_2441_1000~26500



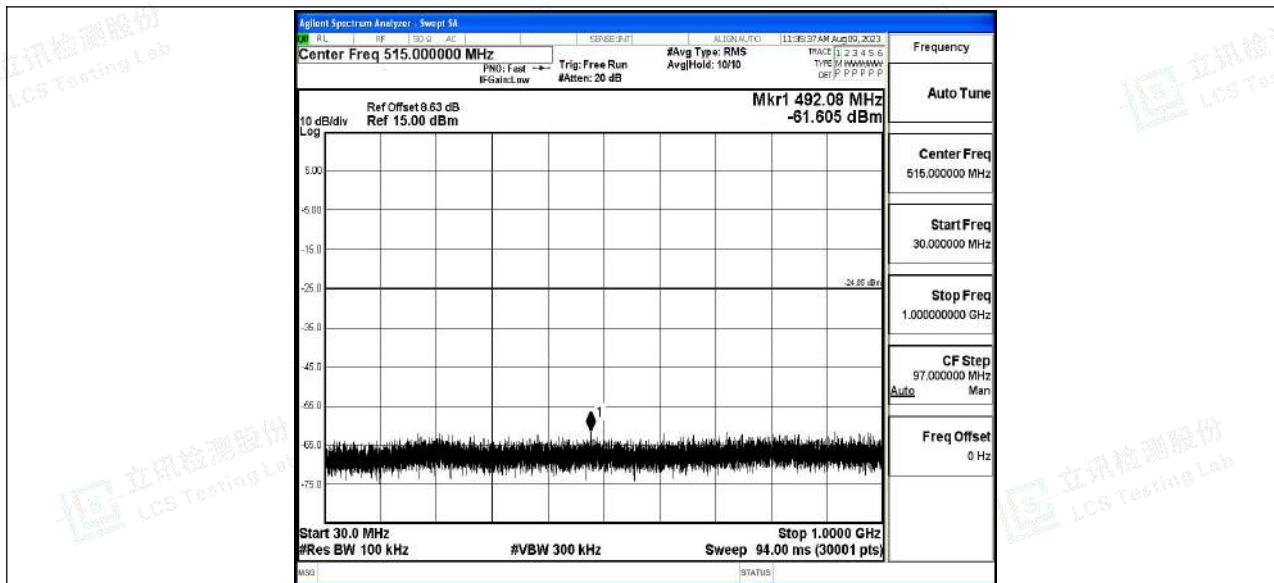


2DH5_Ant1_2480_0~Reference

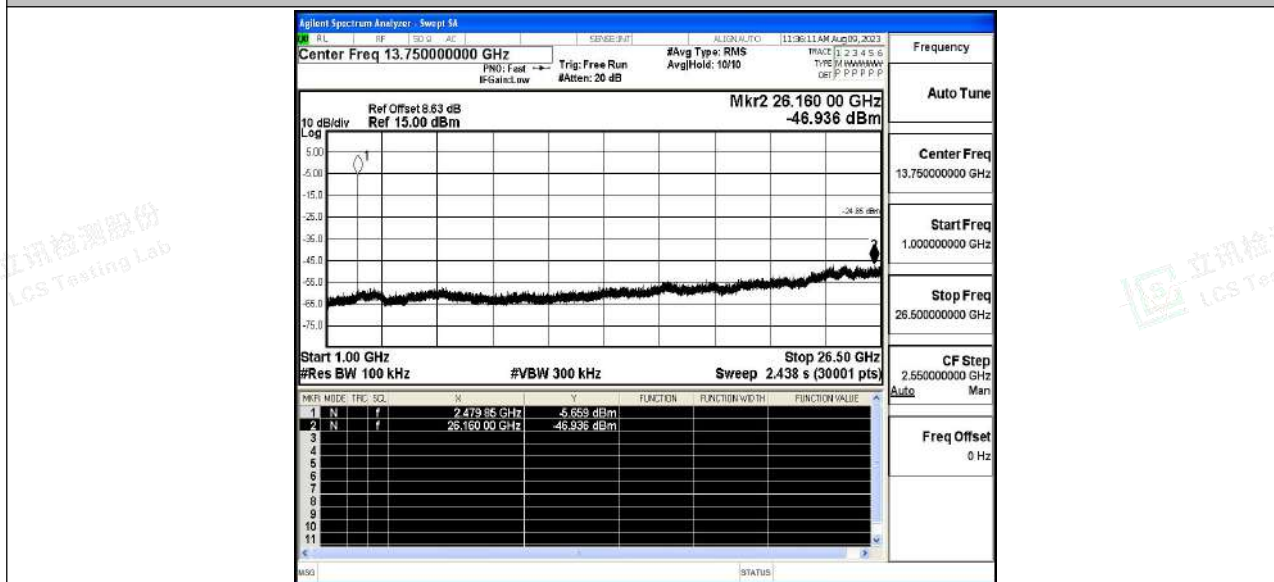


2DH5_Ant1_2480_30~1000



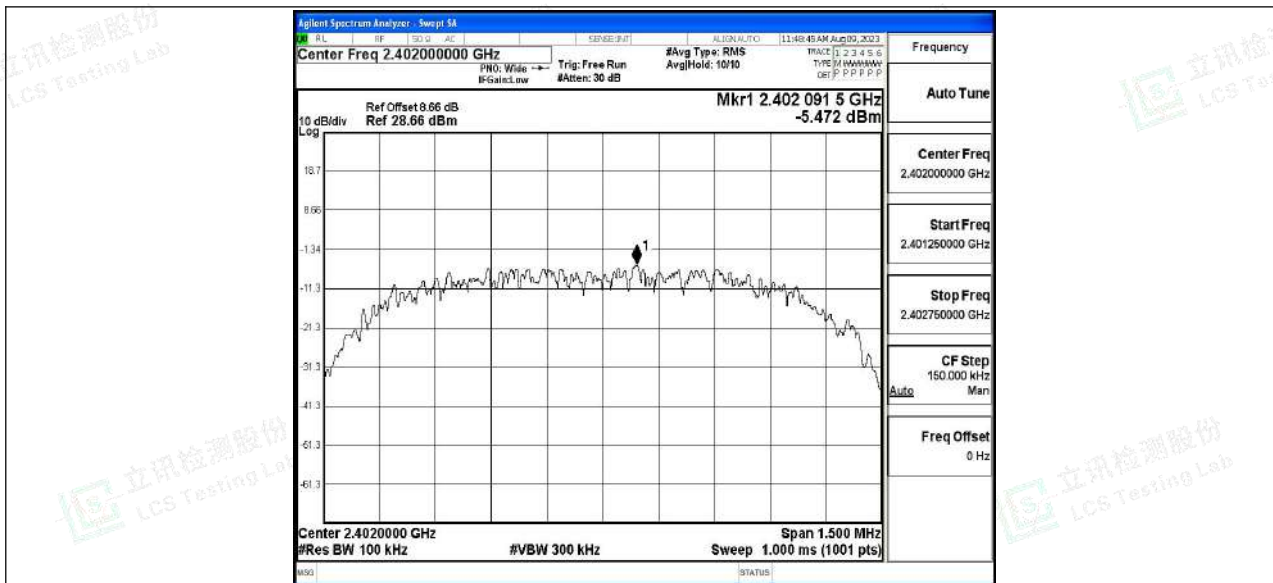


2DH5_Ant1_2480_1000~26500

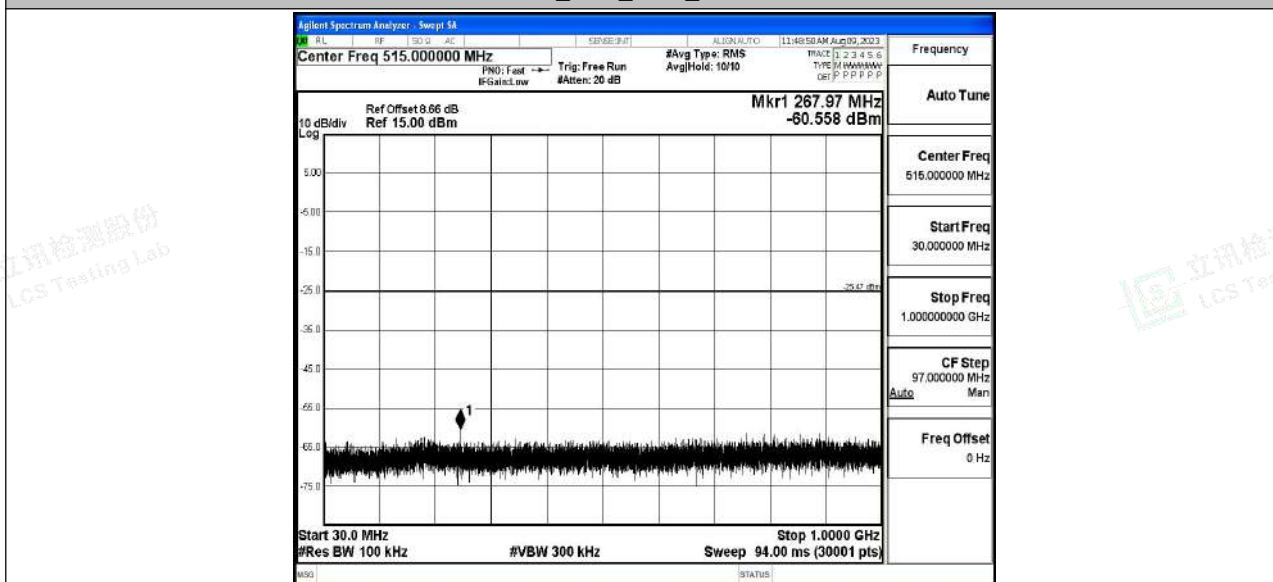


3DH5_Ant1_2402_0~Reference



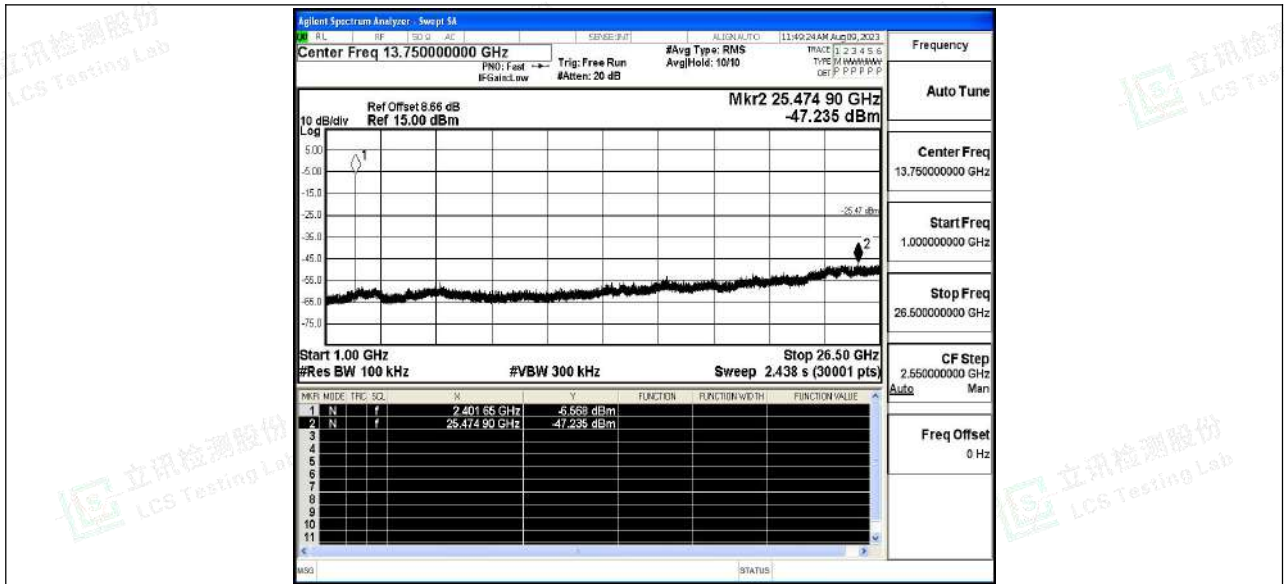


3DH5_Ant1_2402_30~1000

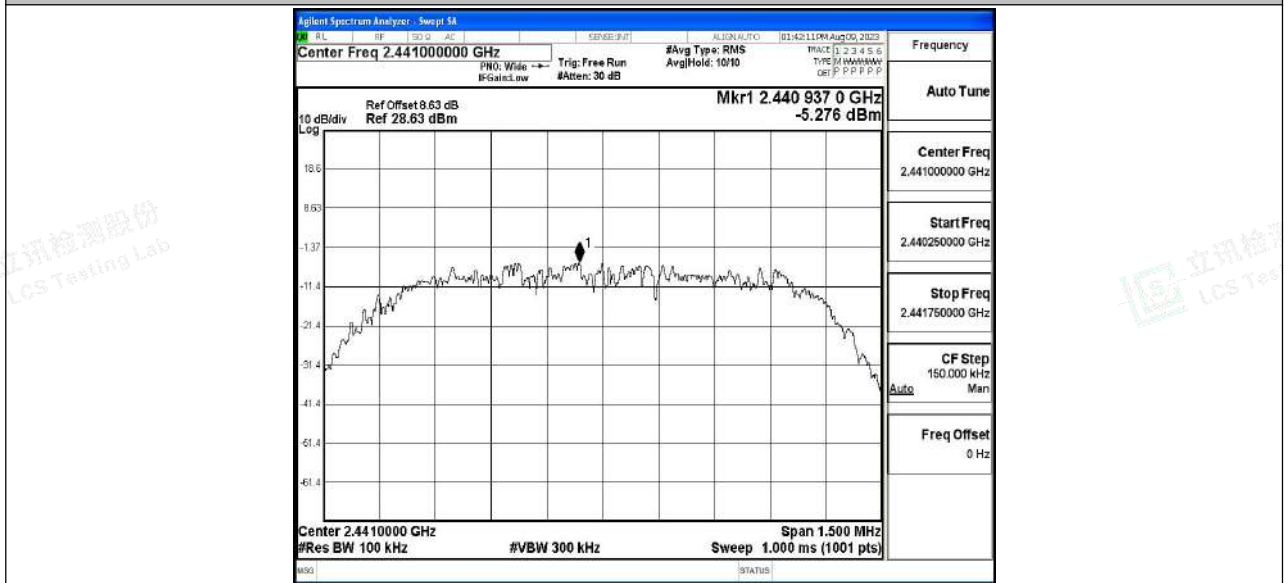


3DH5_Ant1_2402_1000~26500



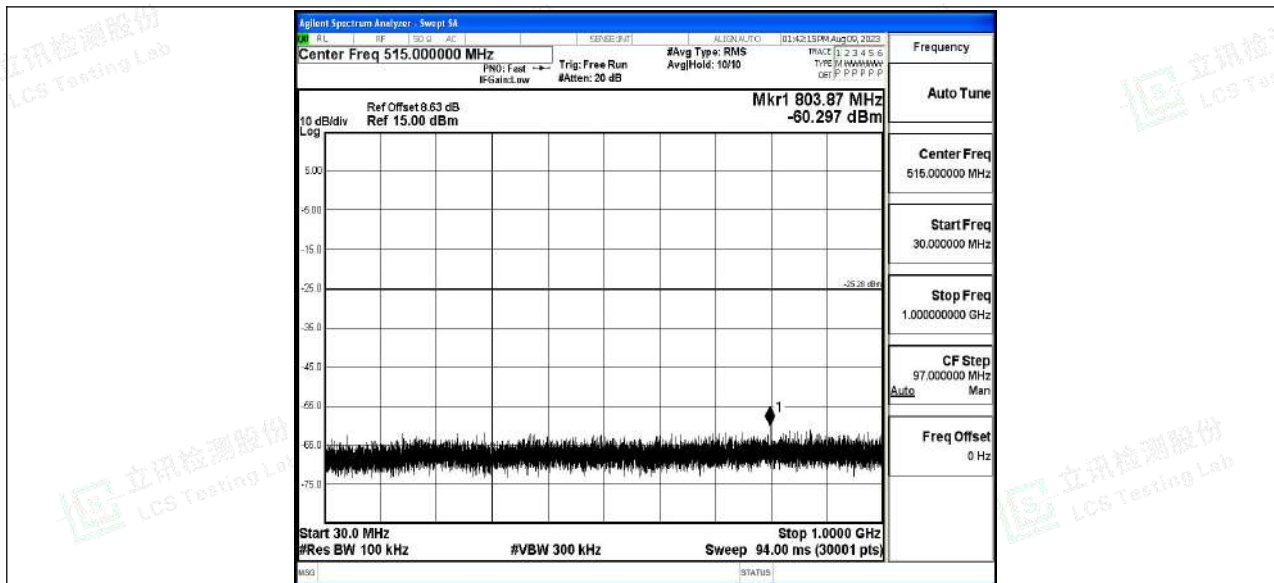


3DH5_Ant1_2441_0~Reference

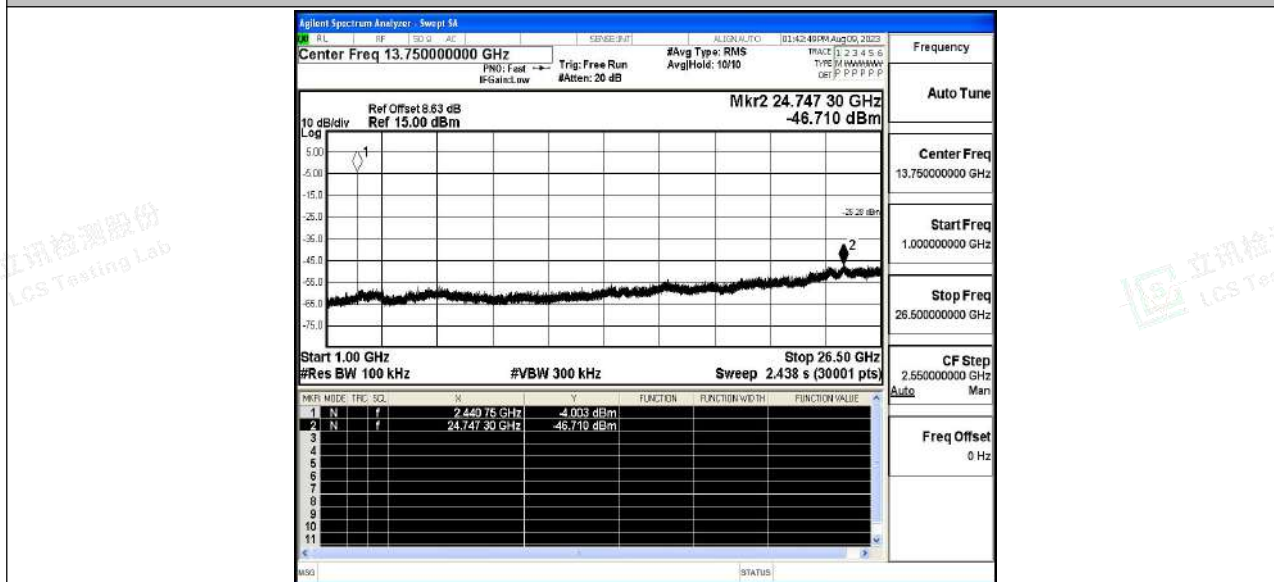


3DH5_Ant1_2441_30~1000



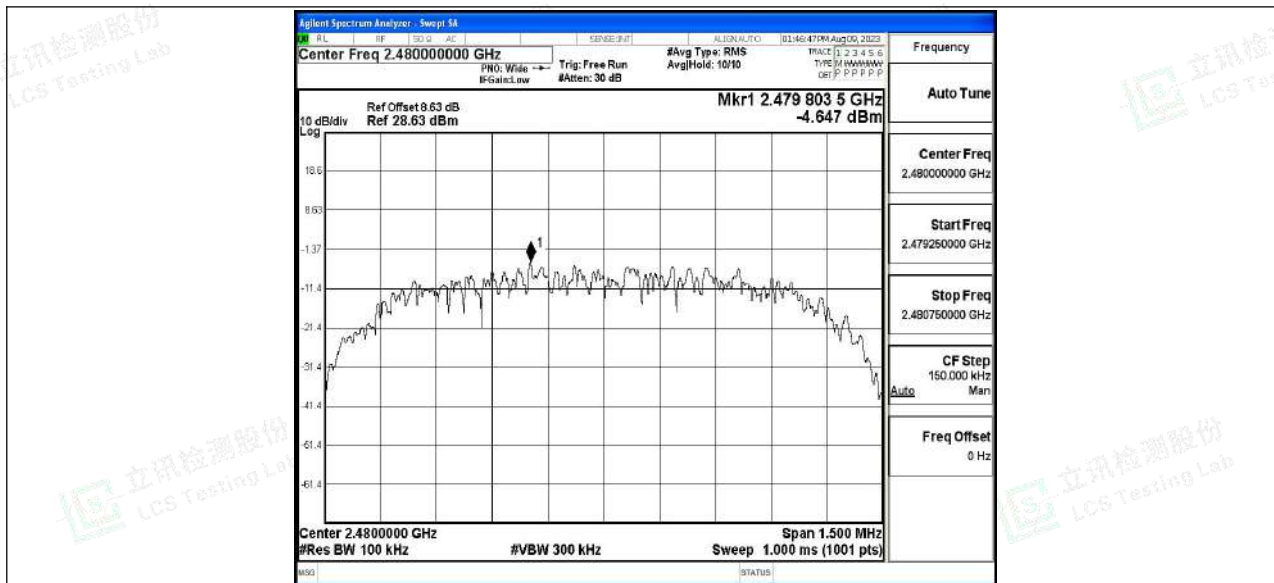


3DH5_Ant1_2441_1000~26500

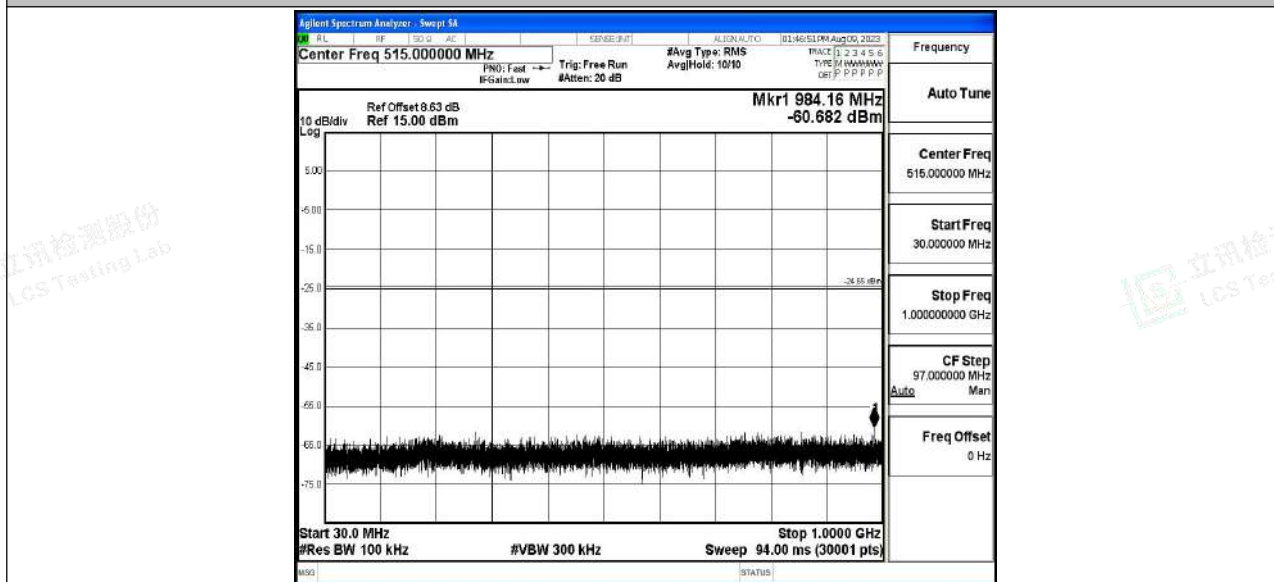


3DH5_Ant1_2480_0~Reference



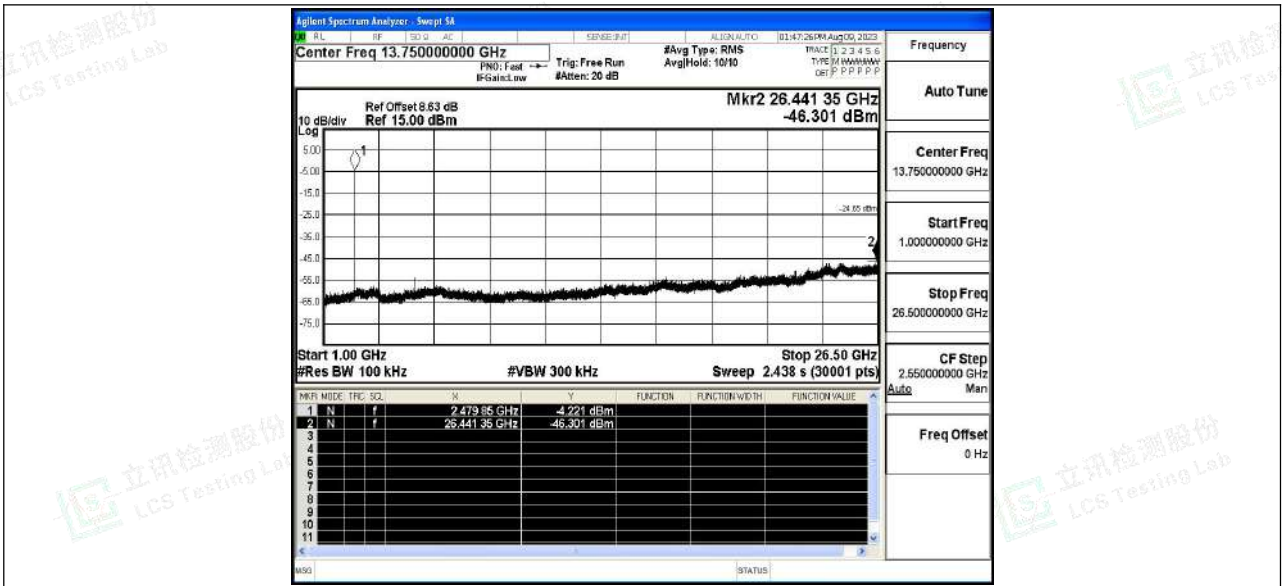


3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500







A.8 Emissions in Restricted Bands

Test Result

Test Mode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Gain (dBi)	E (dBuV/m)	Limit [dBuV/m]	Verdict		
DH5	Ant1	Low	2402	AV	2310.000	-48.27	2.60	49.20	≤54	PASS		
				AV	2389.250	-47.72	2.60	49.75	≤54	PASS		
				AV	2390.000	-48.03	2.60	49.44	≤54	PASS		
				Peak	2310.000	-43.2	2.60	54.27	≤74	PASS		
				Peak	2378.015	-39.2	2.60	58.27	≤74	PASS		
				Peak	2390.000	-42.74	2.60	54.73	≤74	PASS		
		High	2480	AV	2483.500	-47.42	2.60	50.05	≤54	PASS		
				AV	2496.240	-47.3	2.60	50.17	≤54	PASS		
				AV	2500.000	-47.39	2.60	50.08	≤54	PASS		
				Peak	2483.500	-41.68	2.60	55.79	≤74	PASS		
				Peak	2496.160	-39.04	2.60	58.43	≤74	PASS		
				Peak	2500.000	-43.11	2.60	54.36	≤74	PASS		
		Low	Hop_2402	Peak	2310.000	-40.35	2.60	57.12	≤74	PASS		
				Peak	2386.625	-36.43	2.60	61.04	≤74	PASS		
				Peak	2390.000	-39.97	2.60	57.50	≤74	PASS		
		High	Hop_2480	Peak	2483.500	-39.09	2.60	58.38	≤74	PASS		
				Peak	2497.920	-36.82	2.60	60.65	≤74	PASS		
				Peak	2500.000	-38.7	2.60	58.77	≤74	PASS		
		2DH5	Ant1	Low	2402	AV	2310.000	-48.32	2.60	49.15	≤54	PASS
						AV	2385.470	-47.8	2.60	49.67	≤54	PASS
						AV	2390.000	-47.99	2.60	49.48	≤54	PASS
Peak	2310.000					-43.5	2.60	53.97	≤74	PASS		
Peak	2384.735					-39.12	2.60	58.35	≤74	PASS		
Peak	2390.000					-41.18	2.60	56.29	≤74	PASS		
High	2480			AV	2483.500	-47.45	2.60	50.02	≤54	PASS		
				AV	2498.640	-47.26	2.60	50.21	≤54	PASS		
				AV	2500.000	-47.41	2.60	50.06	≤54	PASS		
				Peak	2483.500	-42.04	2.60	55.43	≤74	PASS		
				Peak	2494.320	-37.93	2.60	59.54	≤74	PASS		
				Peak	2500.000	-42.61	2.60	54.86	≤74	PASS		
Low	Hop_2402			Peak	2310.000	-40.76	2.60	56.71	≤74	PASS		
				Peak	2329.820	-37.65	2.60	59.82	≤74	PASS		
				Peak	2390.000	-39.14	2.60	58.33	≤74	PASS		
High	Hop_2480			Peak	2483.500	-38.82	2.60	58.65	≤74	PASS		
				Peak	2499.680	-36.58	2.60	60.89	≤74	PASS		





3DH5	Ant1	Low	2402	Peak	2500.000	-38.67	2.60	58.80	≤74	PASS
				AV	2310.000	-48.28	2.60	49.19	≤54	PASS
				AV	2389.565	-47.77	2.60	49.70	≤54	PASS
				AV	2390.000	-48.01	2.60	49.46	≤54	PASS
				Peak	2310.000	-43.49	2.60	53.98	≤74	PASS
				Peak	2349.455	-38.69	2.60	58.78	≤74	PASS
		High	2480	AV	2483.500	-47.25	2.60	50.22	≤54	PASS
				AV	2499.120	-47.12	2.60	50.35	≤54	PASS
				AV	2500.000	-47.29	2.60	50.18	≤54	PASS
				Peak	2483.500	-43.58	2.60	53.89	≤74	PASS
				Peak	2484.160	-38.38	2.60	59.09	≤74	PASS
				Peak	2500.000	-41.13	2.60	56.34	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-39.96	2.60	57.51	≤74	PASS
				Peak	2370.035	-37.83	2.60	59.64	≤74	PASS
				Peak	2390.000	-40.15	2.60	57.32	≤74	PASS
		High	Hop_248 0	Peak	2483.500	-38.81	2.60	58.66	≤74	PASS
				Peak	2484.080	-36.97	2.60	60.50	≤74	PASS
				Peak	2500.000	-38.96	2.60	58.51	≤74	PASS

Note:

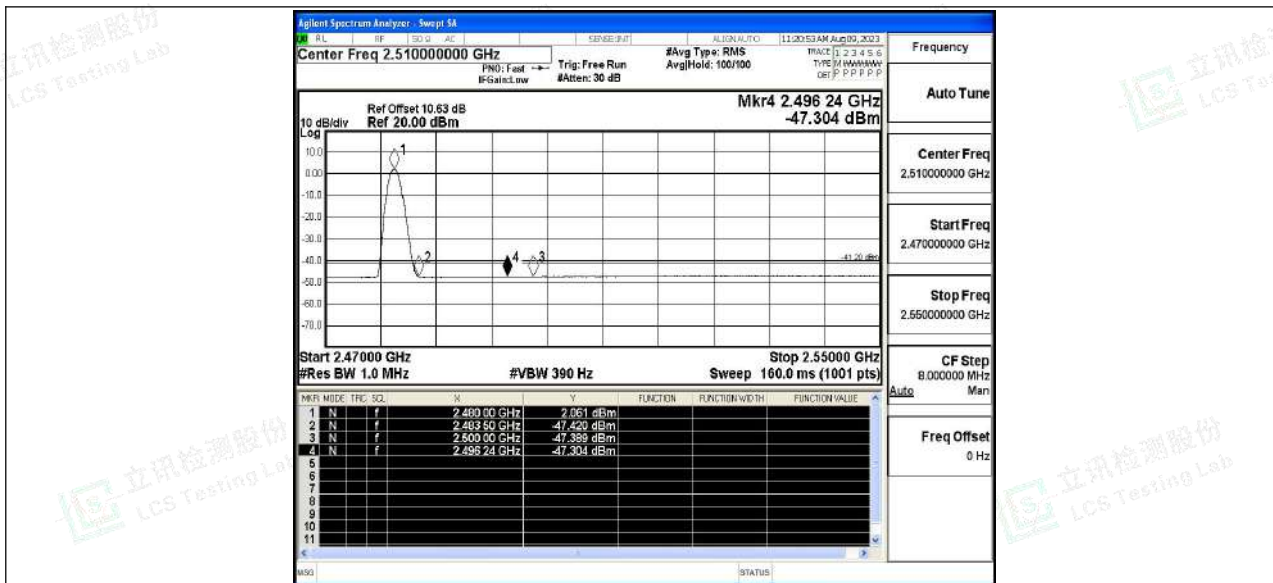
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



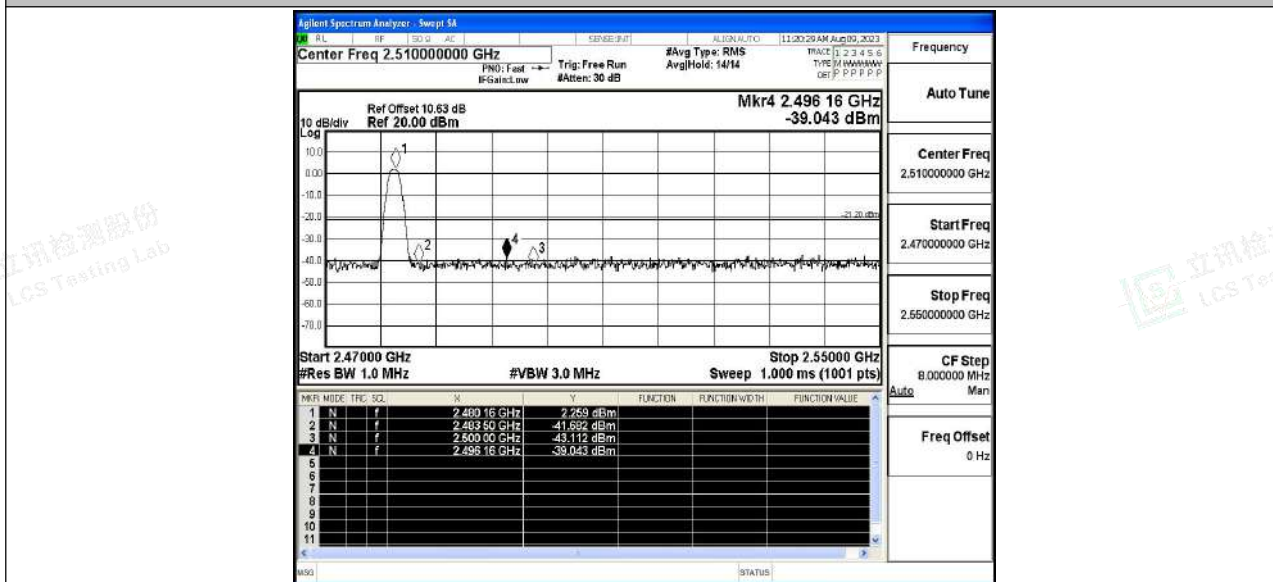


Test Graphs



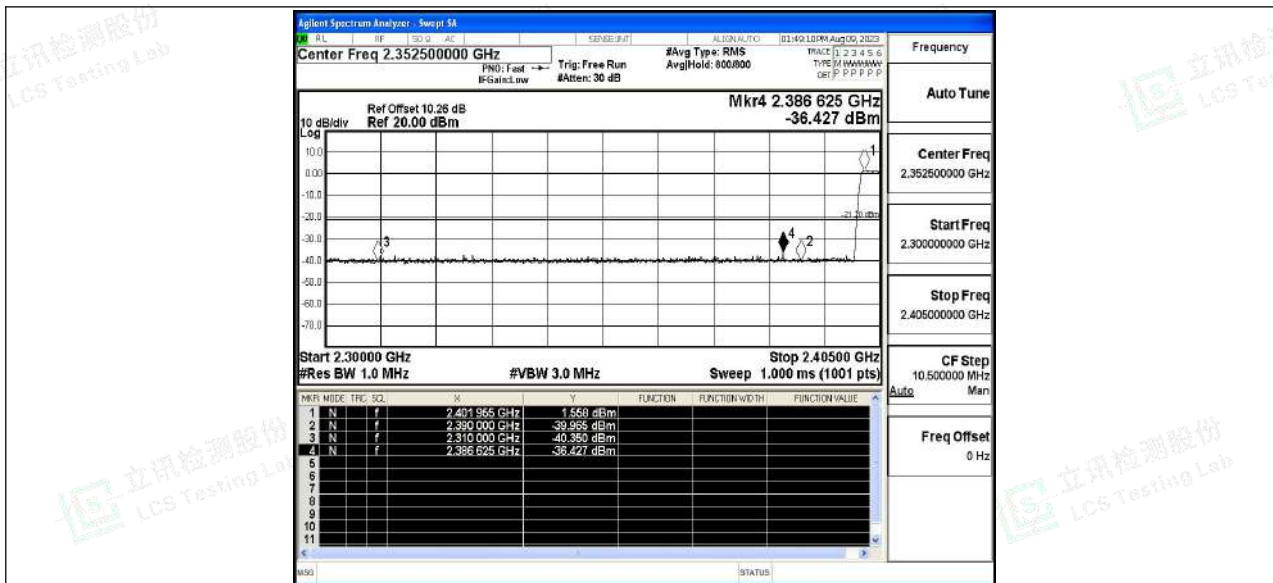


DH5_Ant1_High_2480_Peak

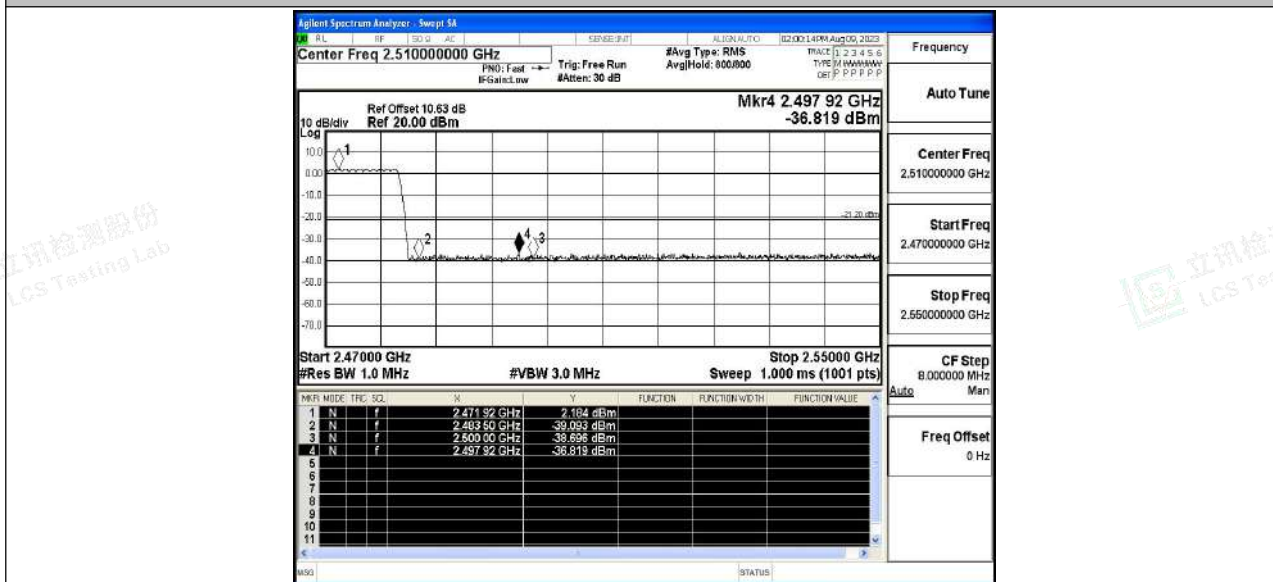


DH5_Ant1_Low_Hop_2402_Peak



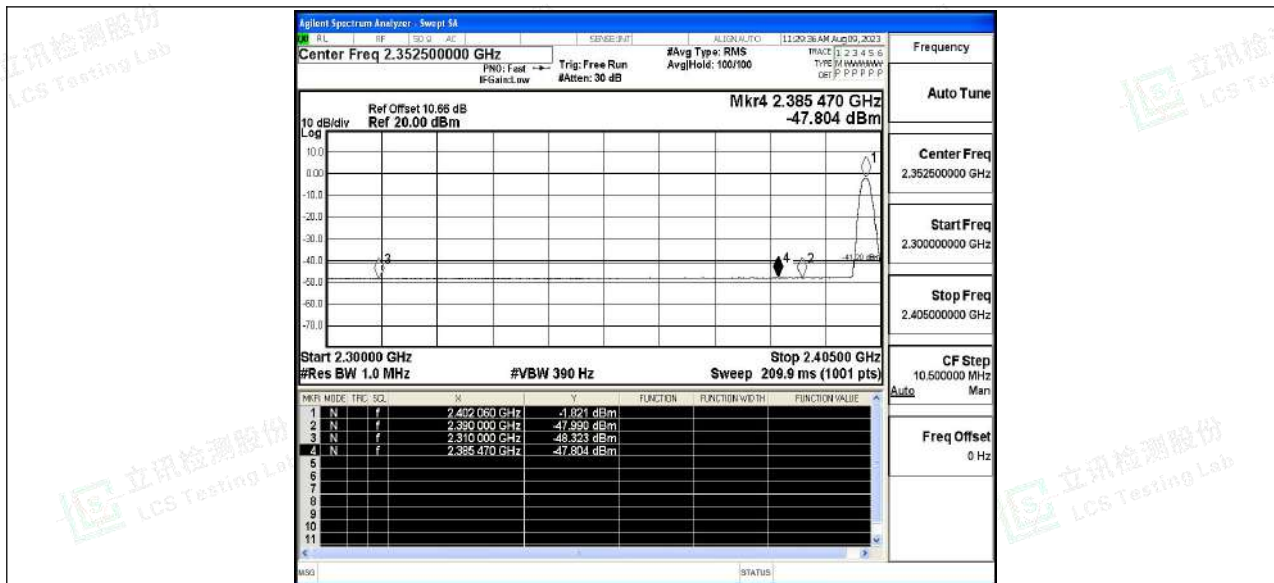


DH5_Ant1_High_Hop_2480_Peak

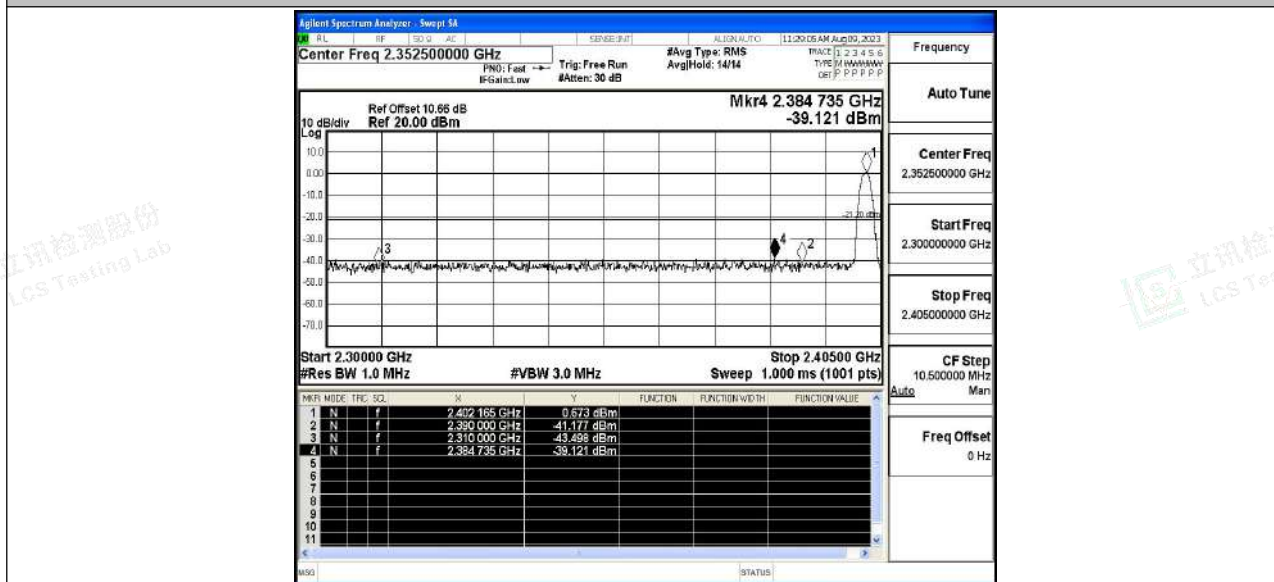


2DH5_Ant1_Low_2402_AV



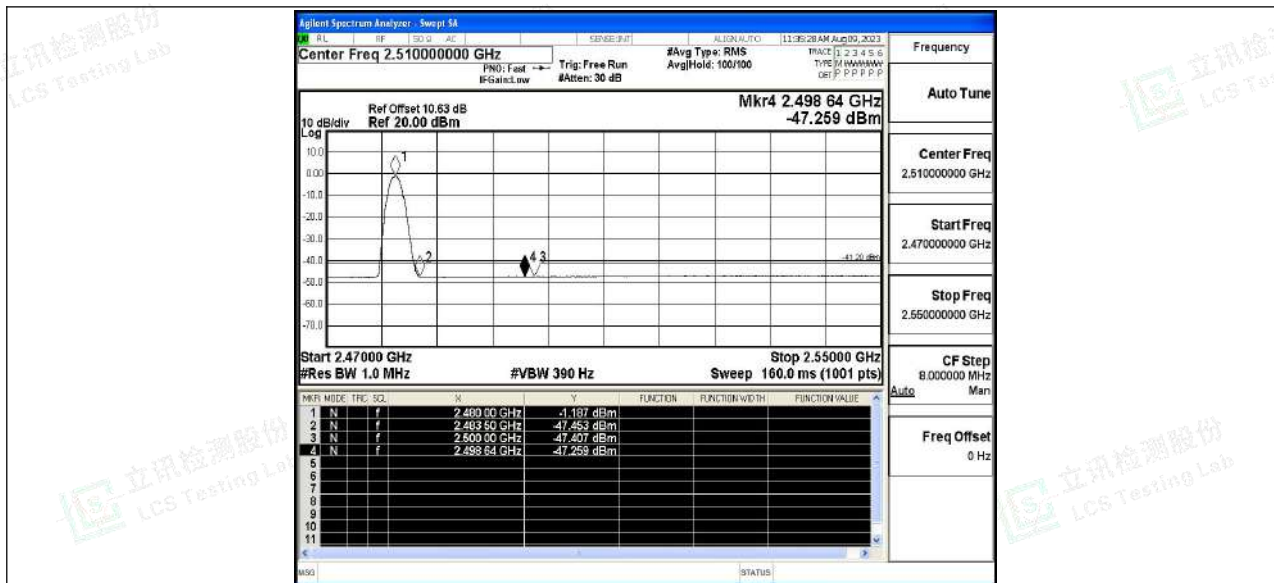


2DH5_Ant1_Low_2402_Peak

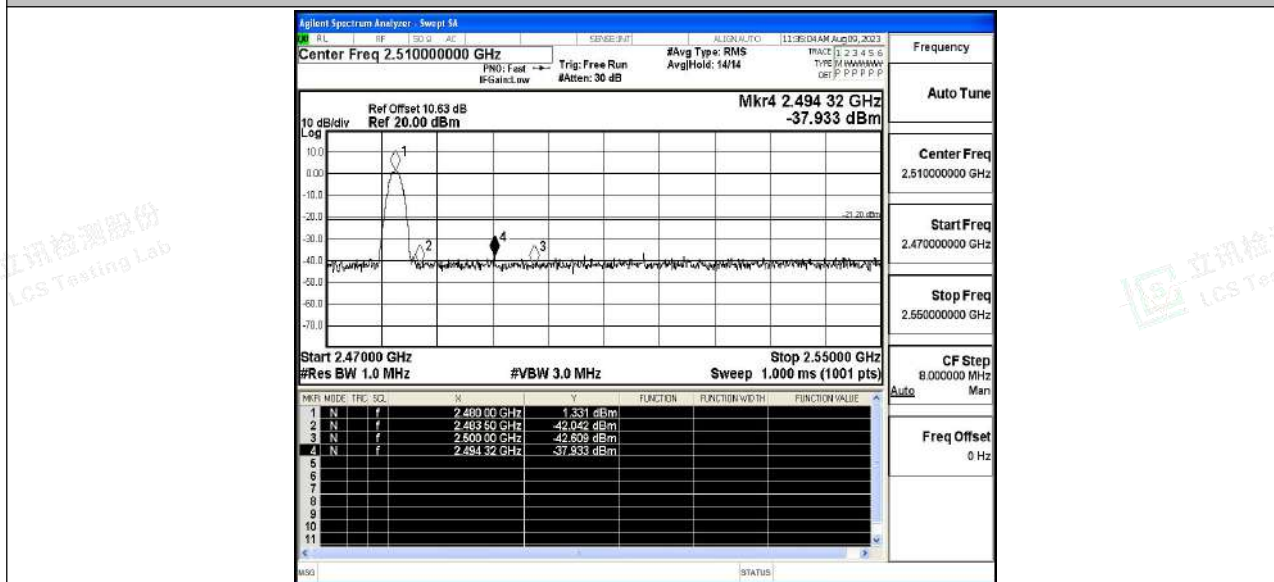


2DH5_Ant1_High_2480_AV



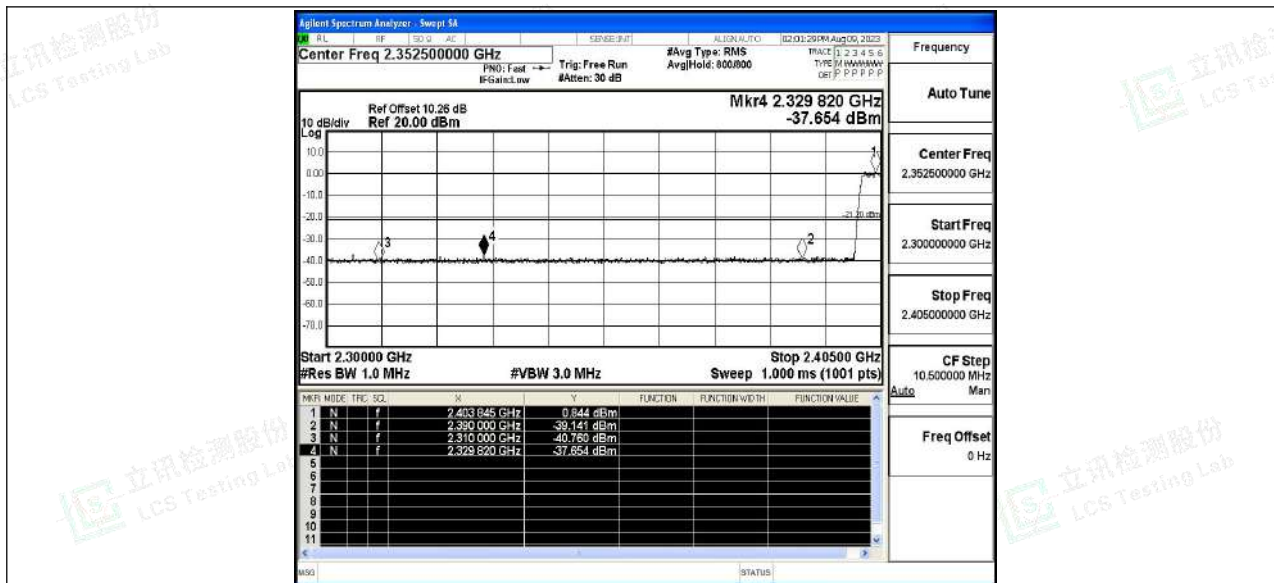


2DH5_Ant1_High_2480_Peak

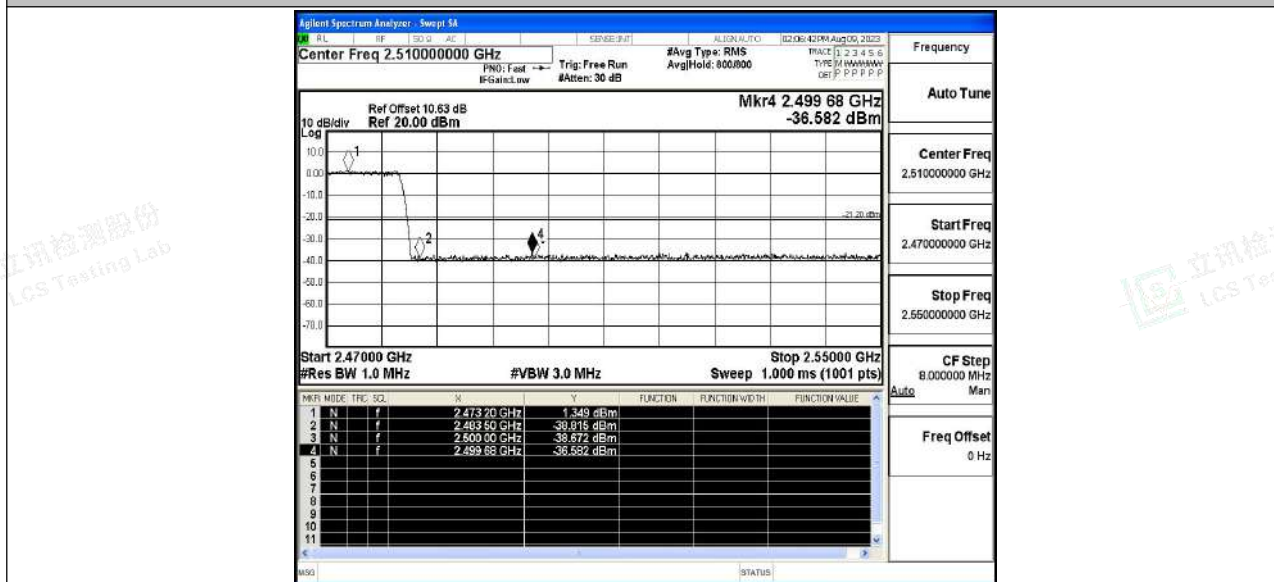


2DH5_Ant1_Low_Hop_2402_Peak



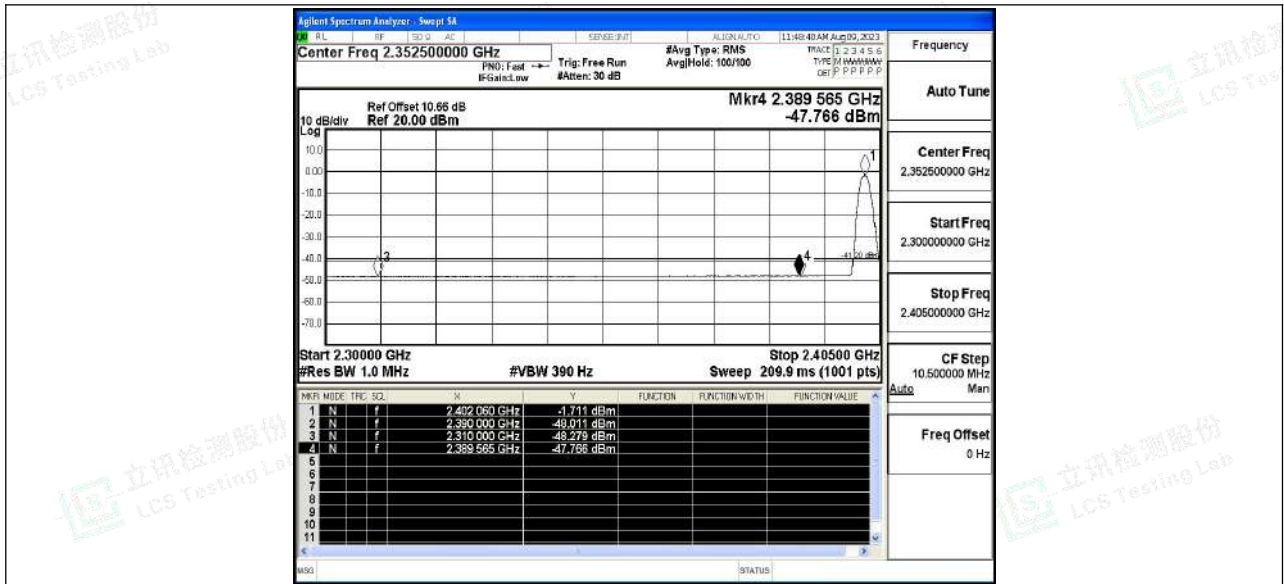


2DH5_Ant1_High_Hop_2480_Peak

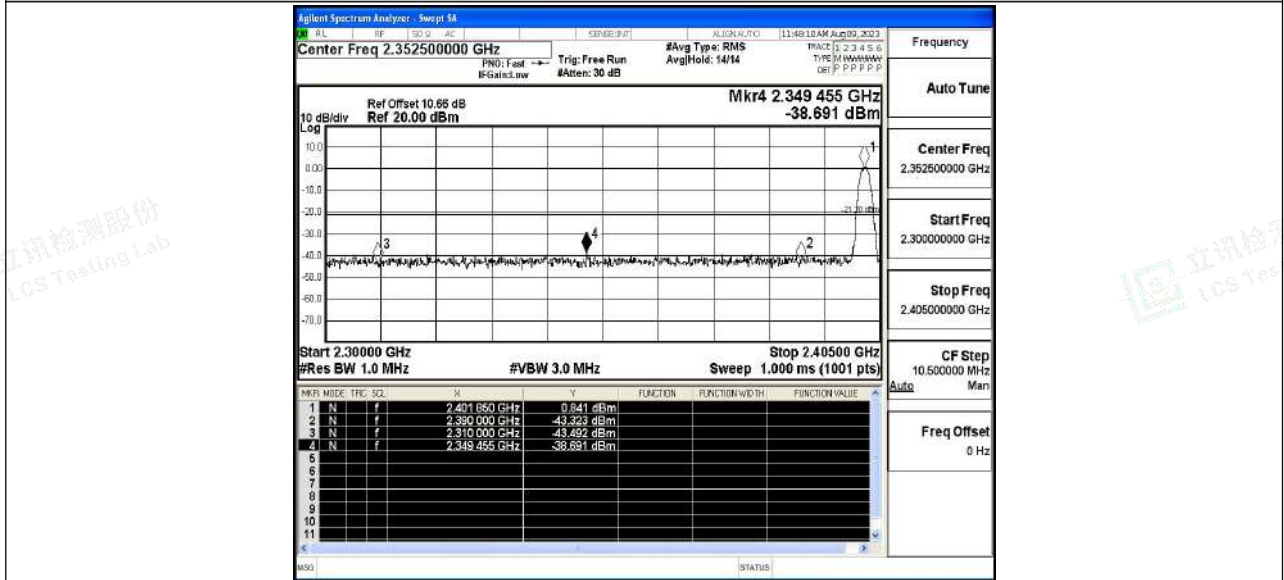


3DH5_Ant1_Low_2402_AV



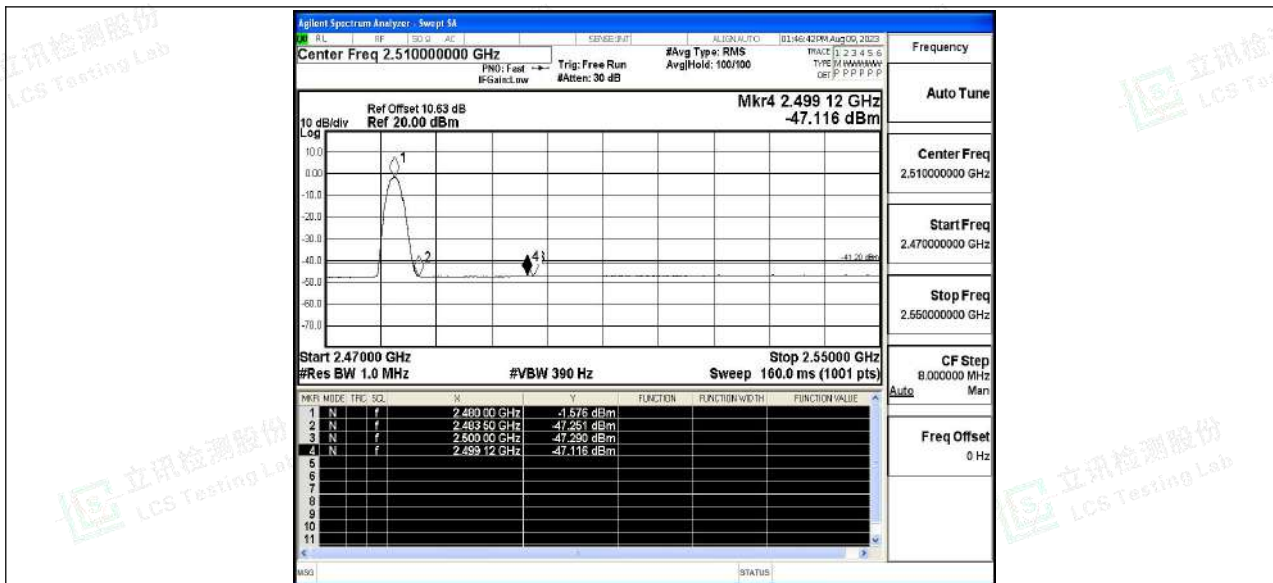


3DH5_Ant1_Low_2402_Peak

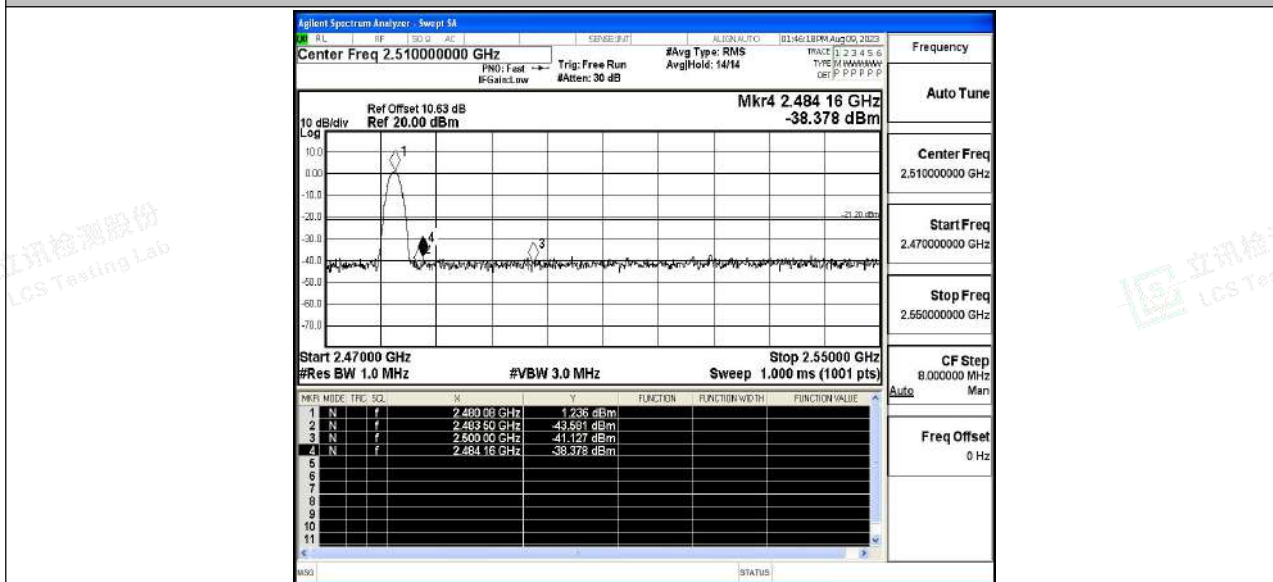


3DH5_Ant1_High_2480_AV



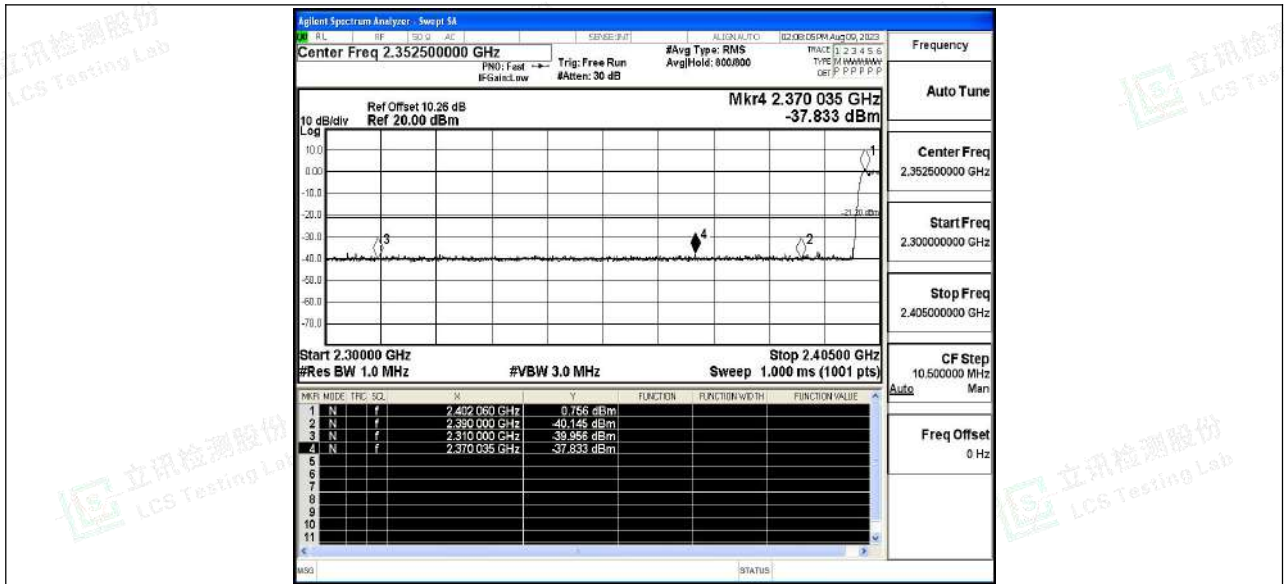


3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak





3DH5_Ant1_High_Hop_2480_Peak

