



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless audio adapter

Test Model: B06T2

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

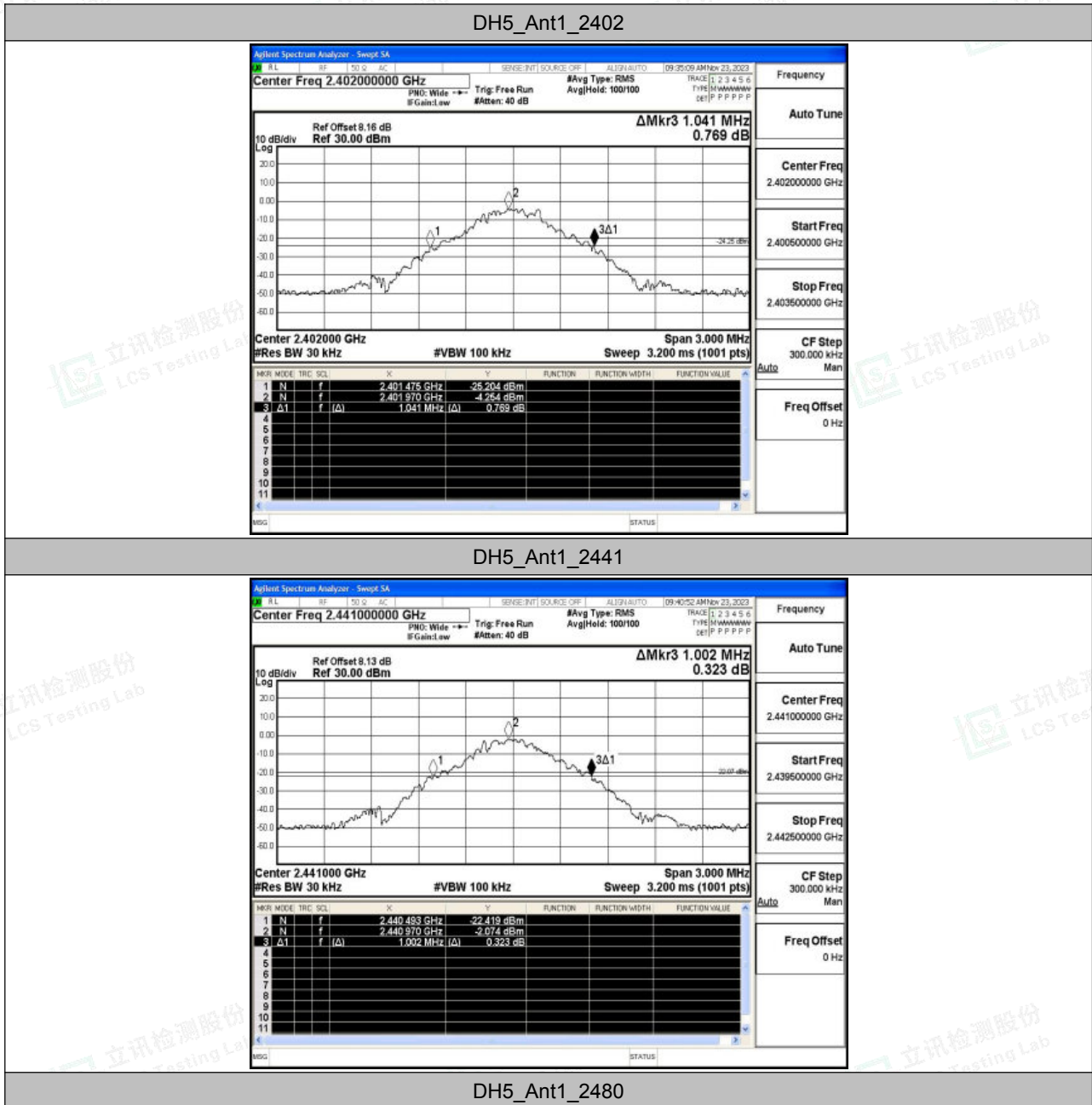
Test Result

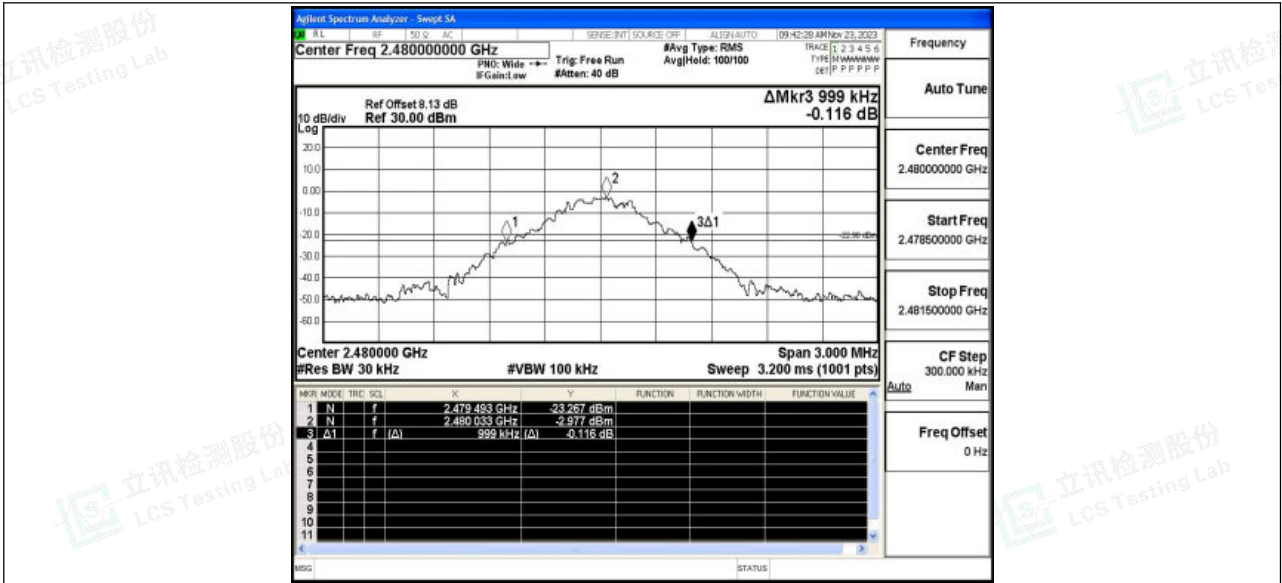
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.041	2401.475	2402.516	---
		2441	1.002	2440.493	2441.495	---
		2480	0.999	2479.493	2480.492	---
2DH5	Ant1	2402	1.290	2401.358	2402.648	---
		2441	1.293	2440.358	2441.651	---
		2480	1.293	2479.358	2480.651	---
3DH5	Ant1	2402	1.317	2401.340	2402.657	---
		2441	1.317	2440.340	2441.657	---
		2480	1.314	2479.340	2480.654	---



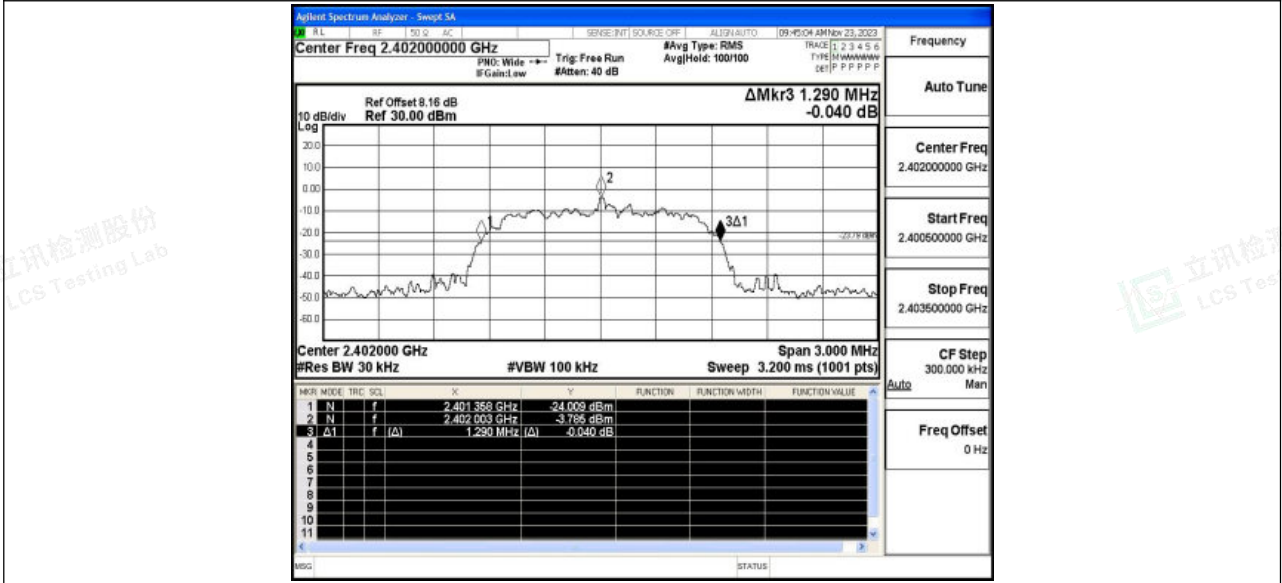


Test Graphs



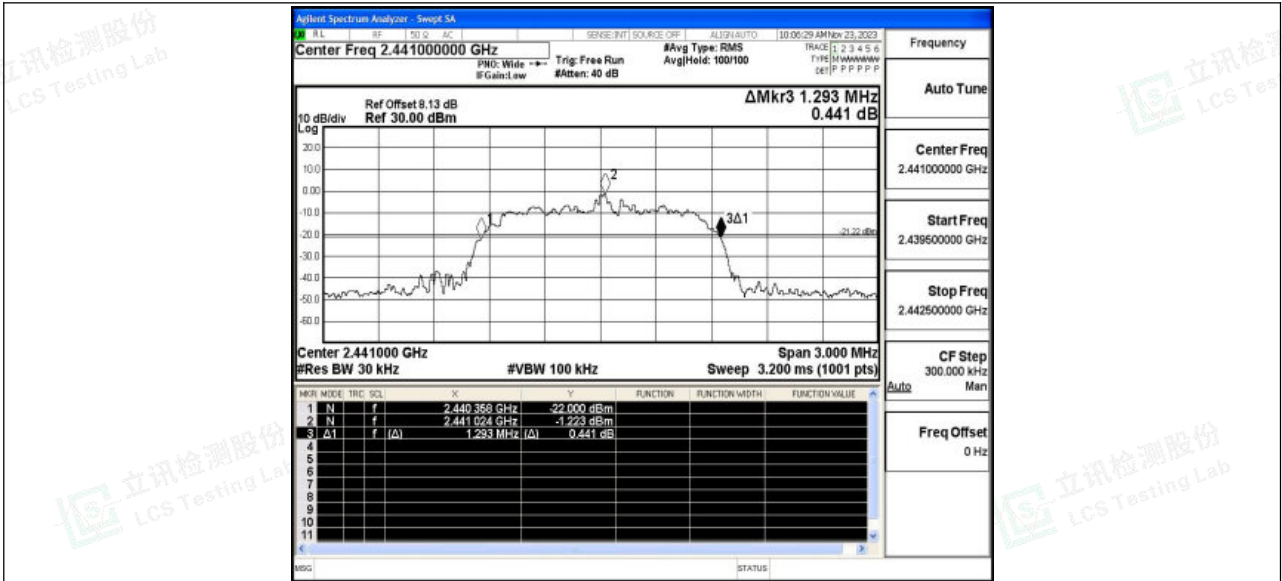


2DH5_Ant1_2402

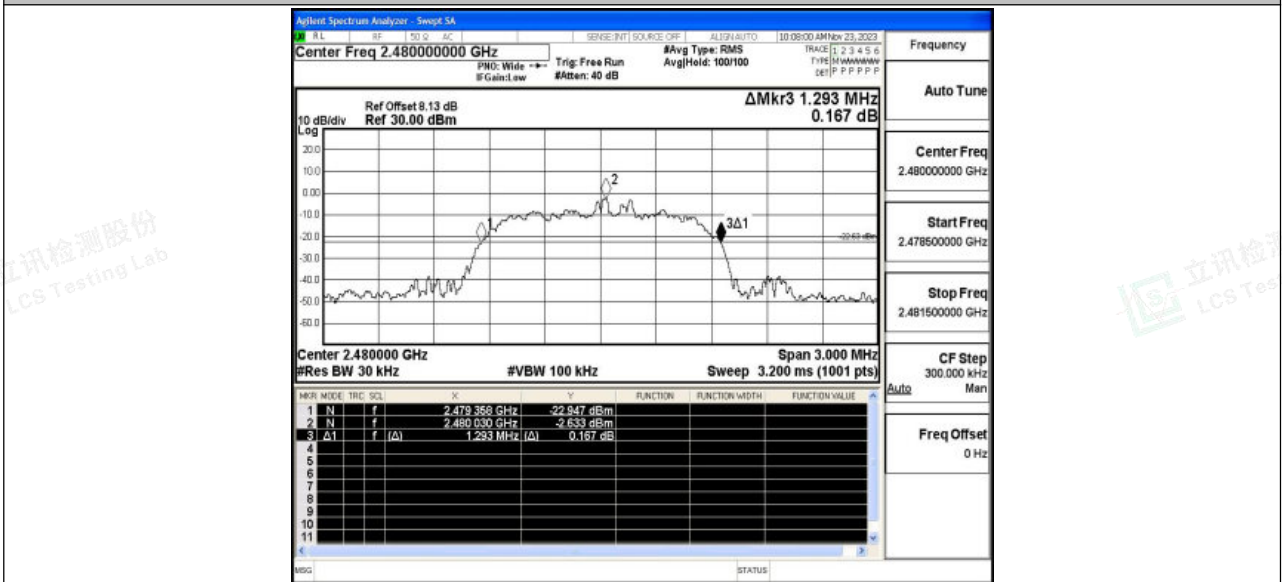


2DH5_Ant1_2441



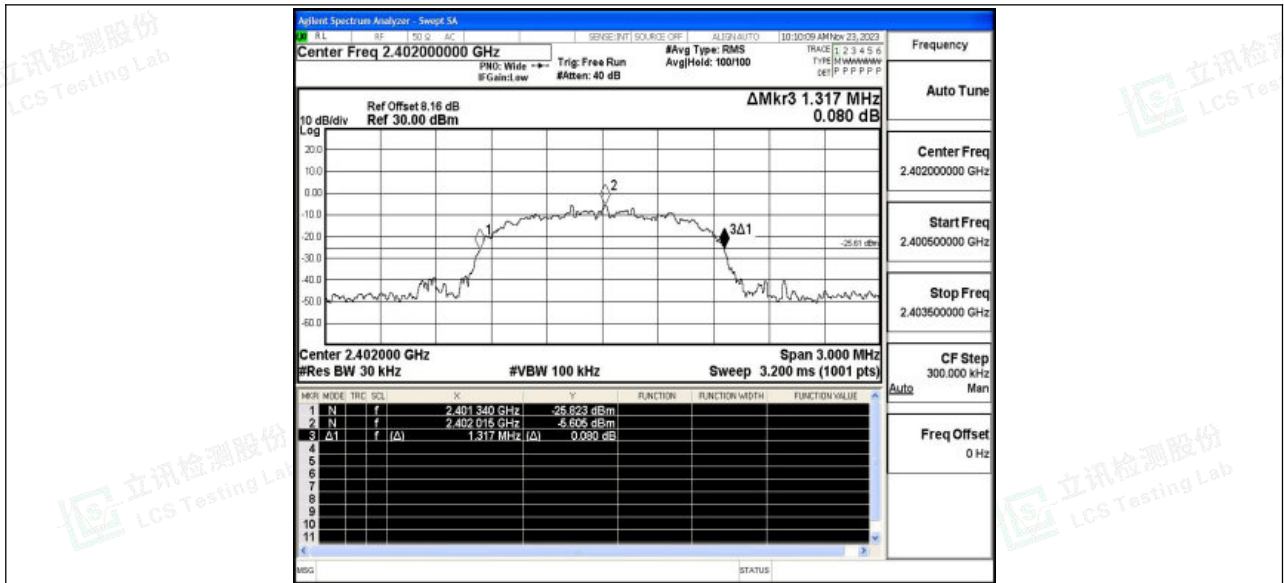


2DH5_Ant1_2480

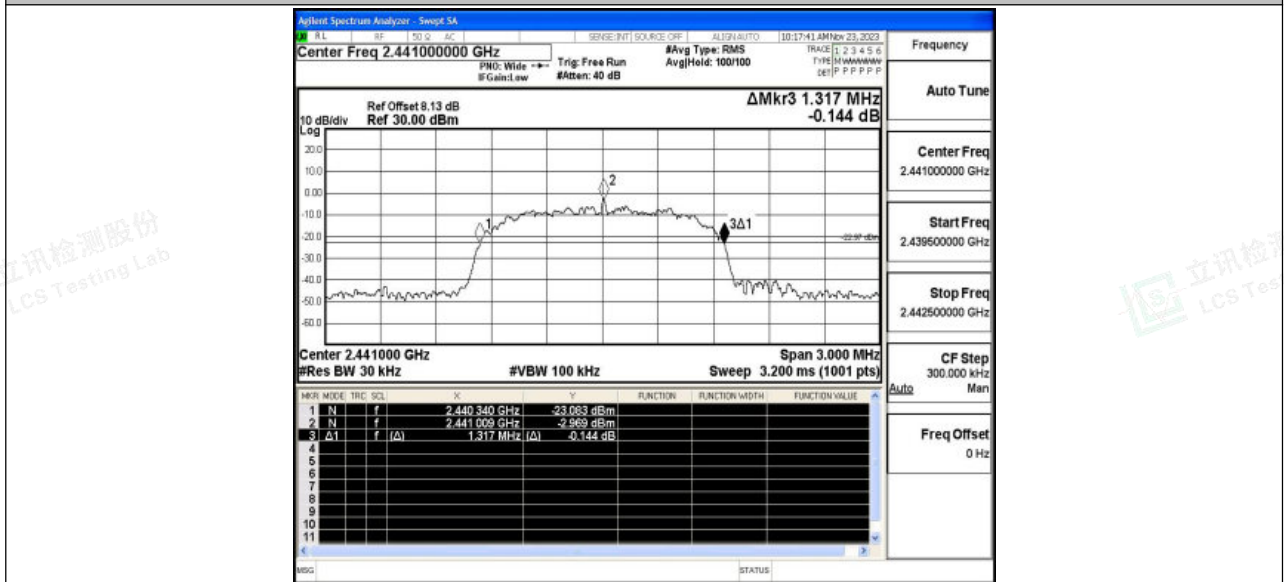


3DH5_Ant1_2402



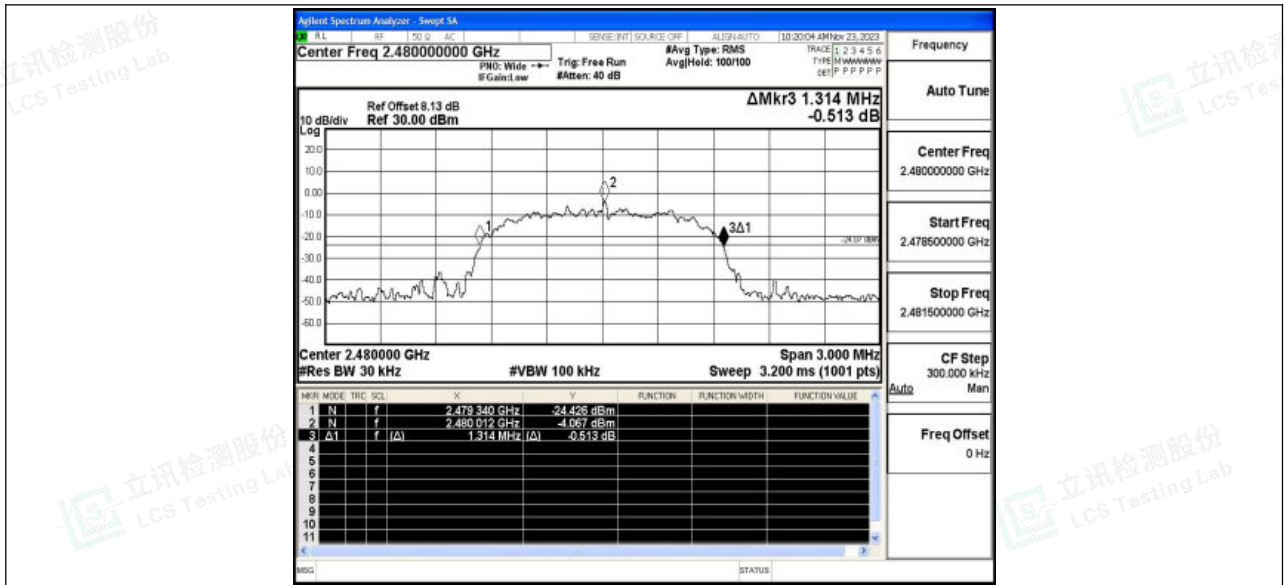


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum peak conducted output power

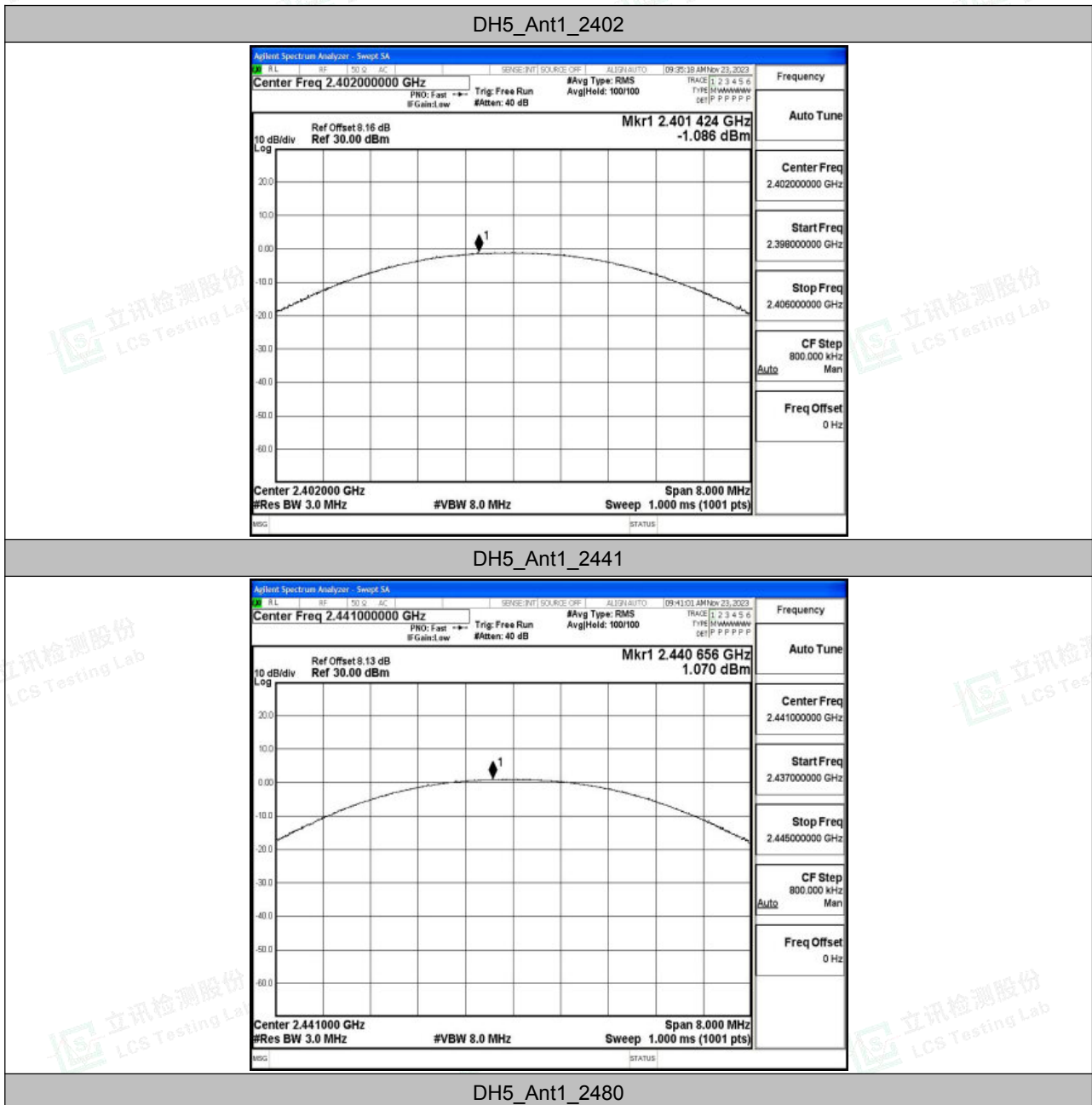
Test Result

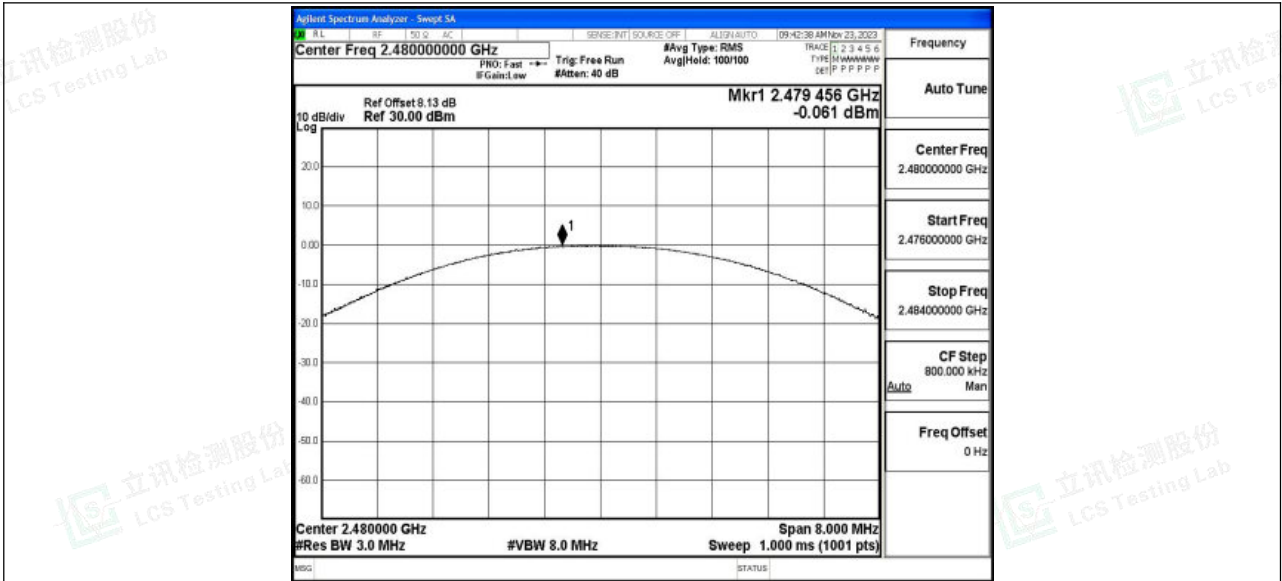
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1.09	≤20.97	PASS
		2441	1.07	≤20.97	PASS
		2480	-0.06	≤20.97	PASS
2DH5	Ant1	2402	0.8	≤20.97	PASS
		2441	2.8	≤20.97	PASS
		2480	1.51	≤20.97	PASS
3DH5	Ant1	2402	1.18	≤20.97	PASS
		2441	3.11	≤20.97	PASS
		2480	1.82	≤20.97	PASS



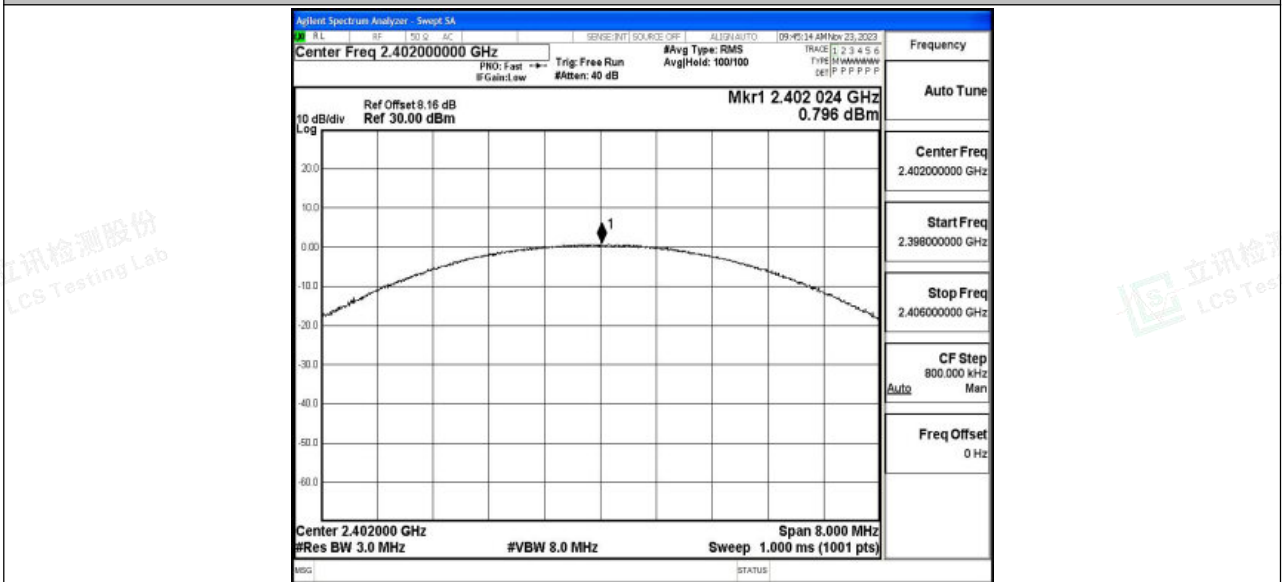


Test Graphs



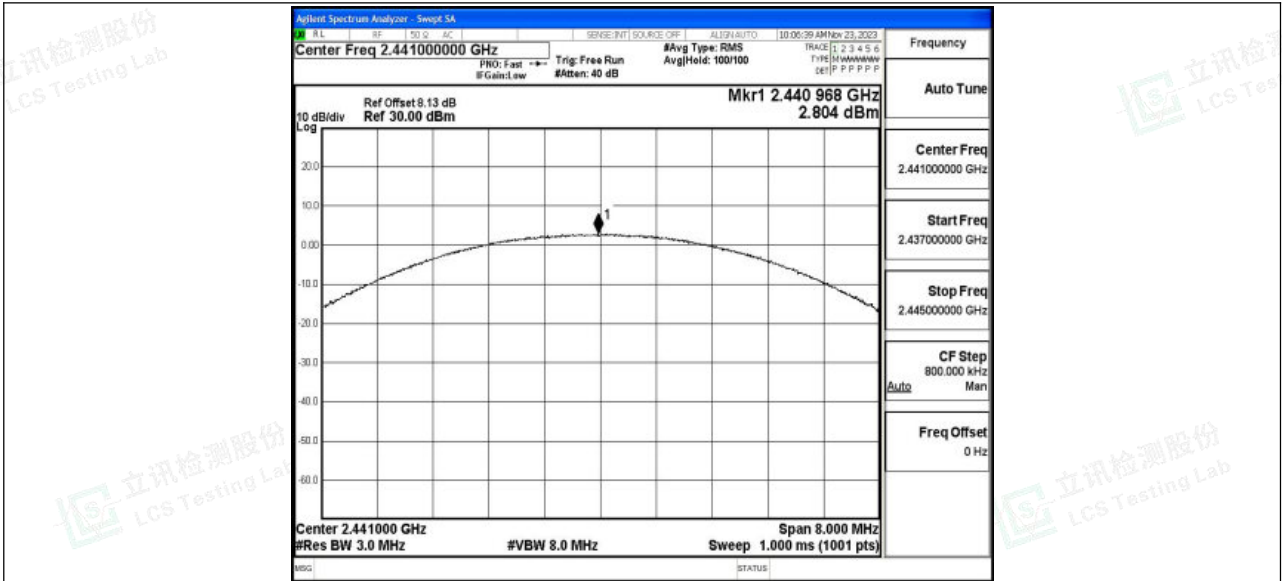


2Dh5_Ant1_2402

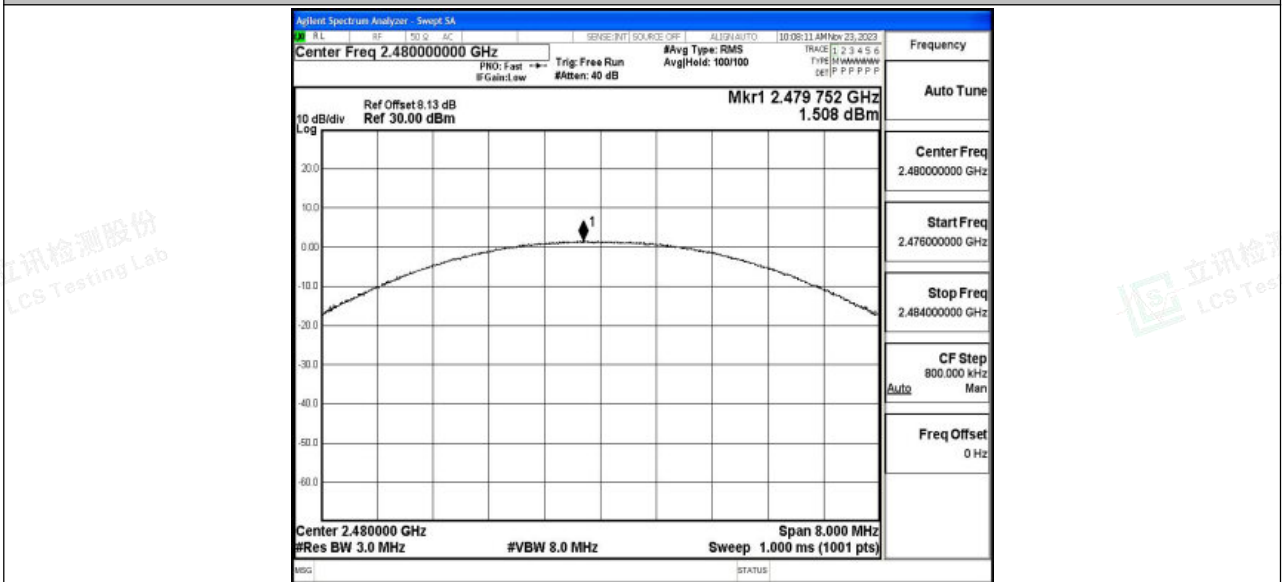


2Dh5_Ant1_2441



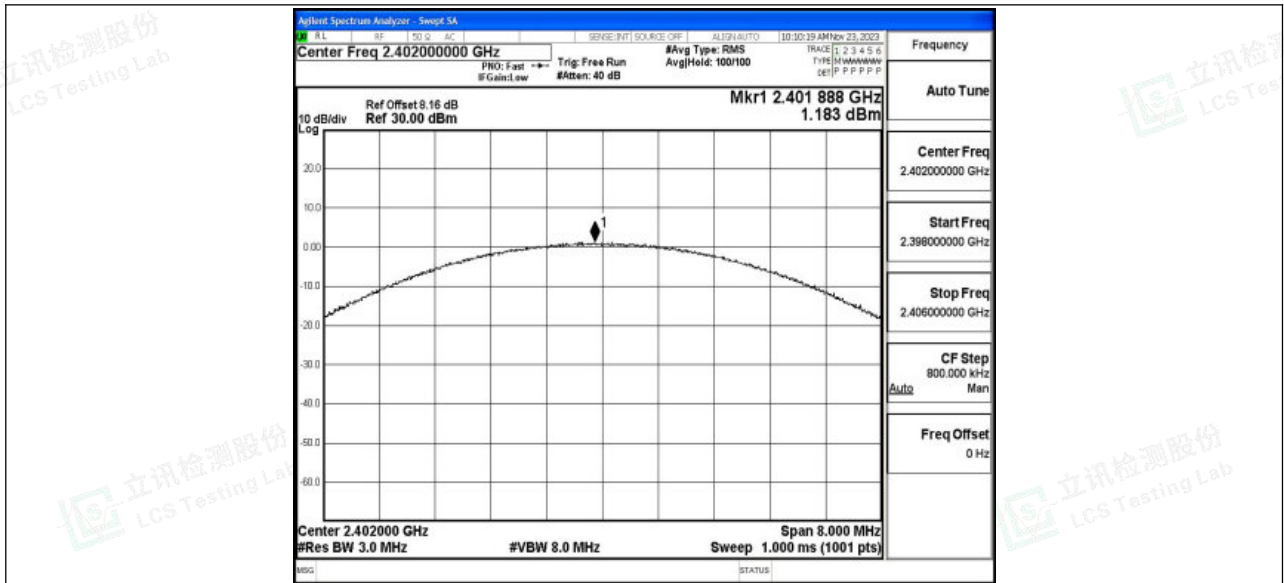


2DH5_Ant1_2480

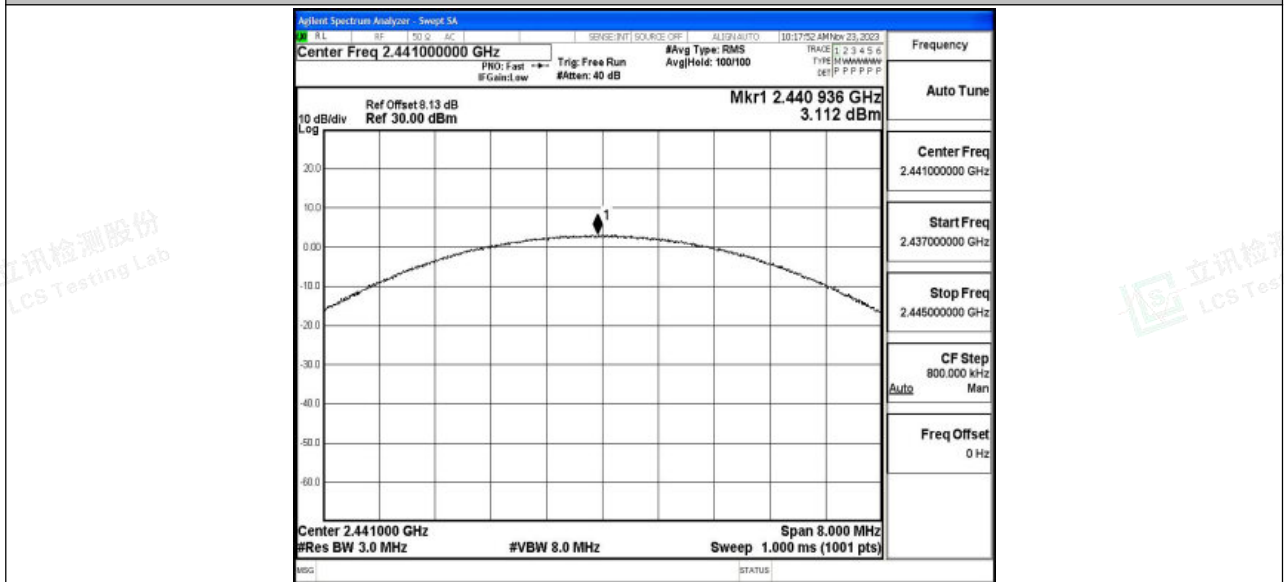


3DH5_Ant1_2402



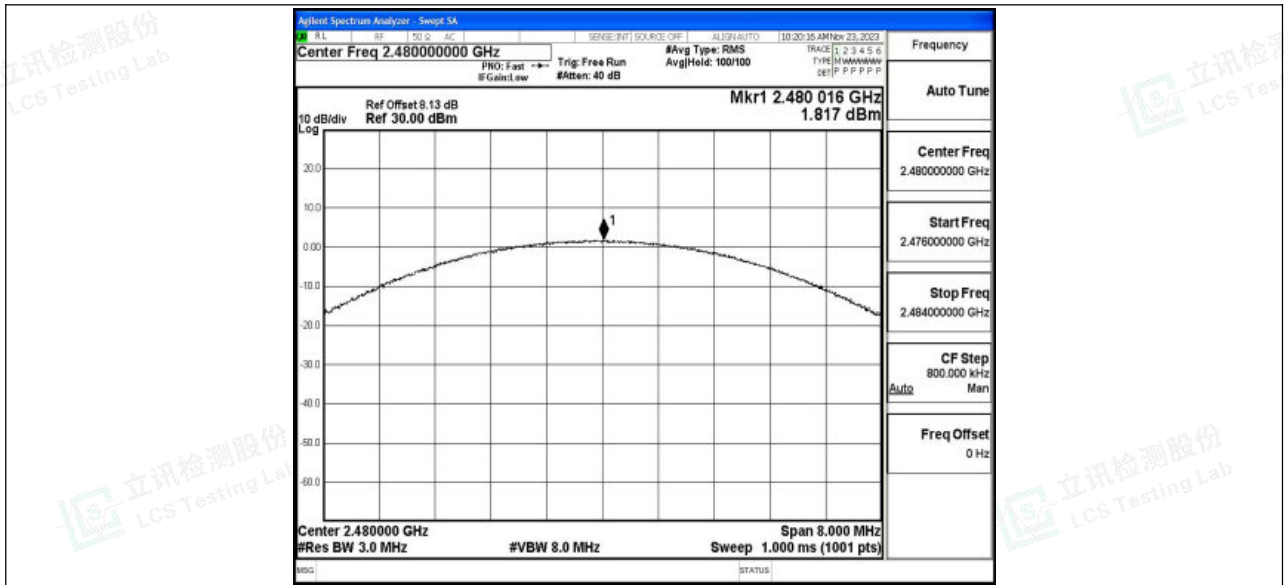


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

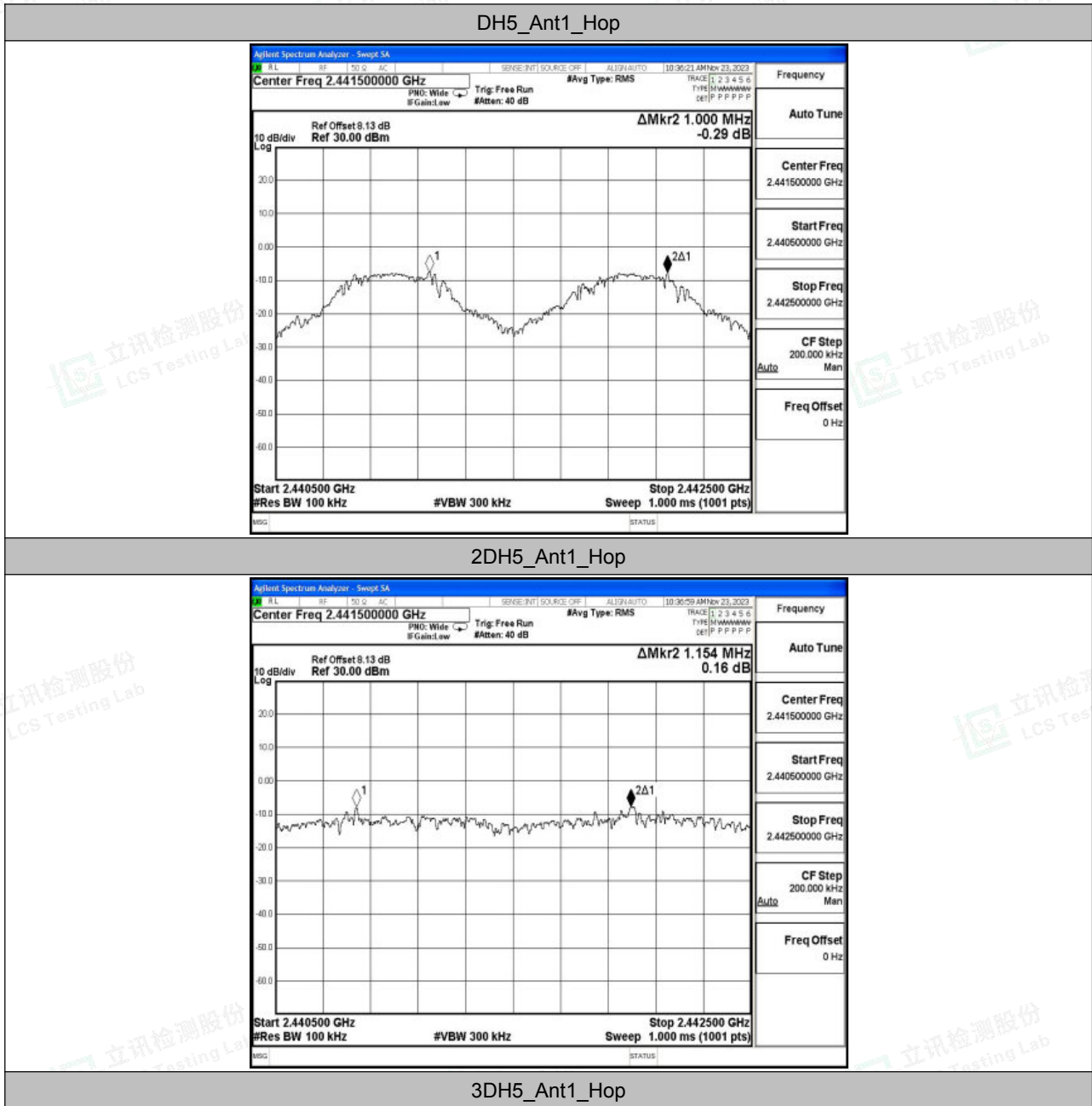
Test Result

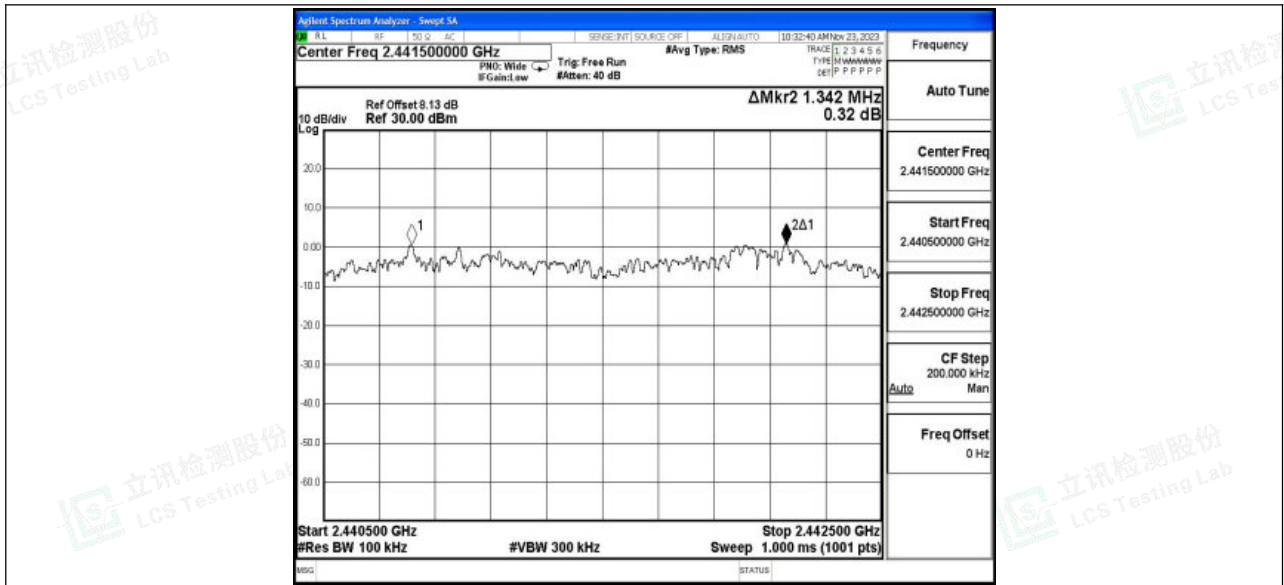
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	≥ 0.694	PASS
2DH5	Ant1	Hop	1.154	≥ 0.862	PASS
3DH5	Ant1	Hop	1.342	≥ 0.878	PASS





Test Graphs







A.4 Time of occupancy

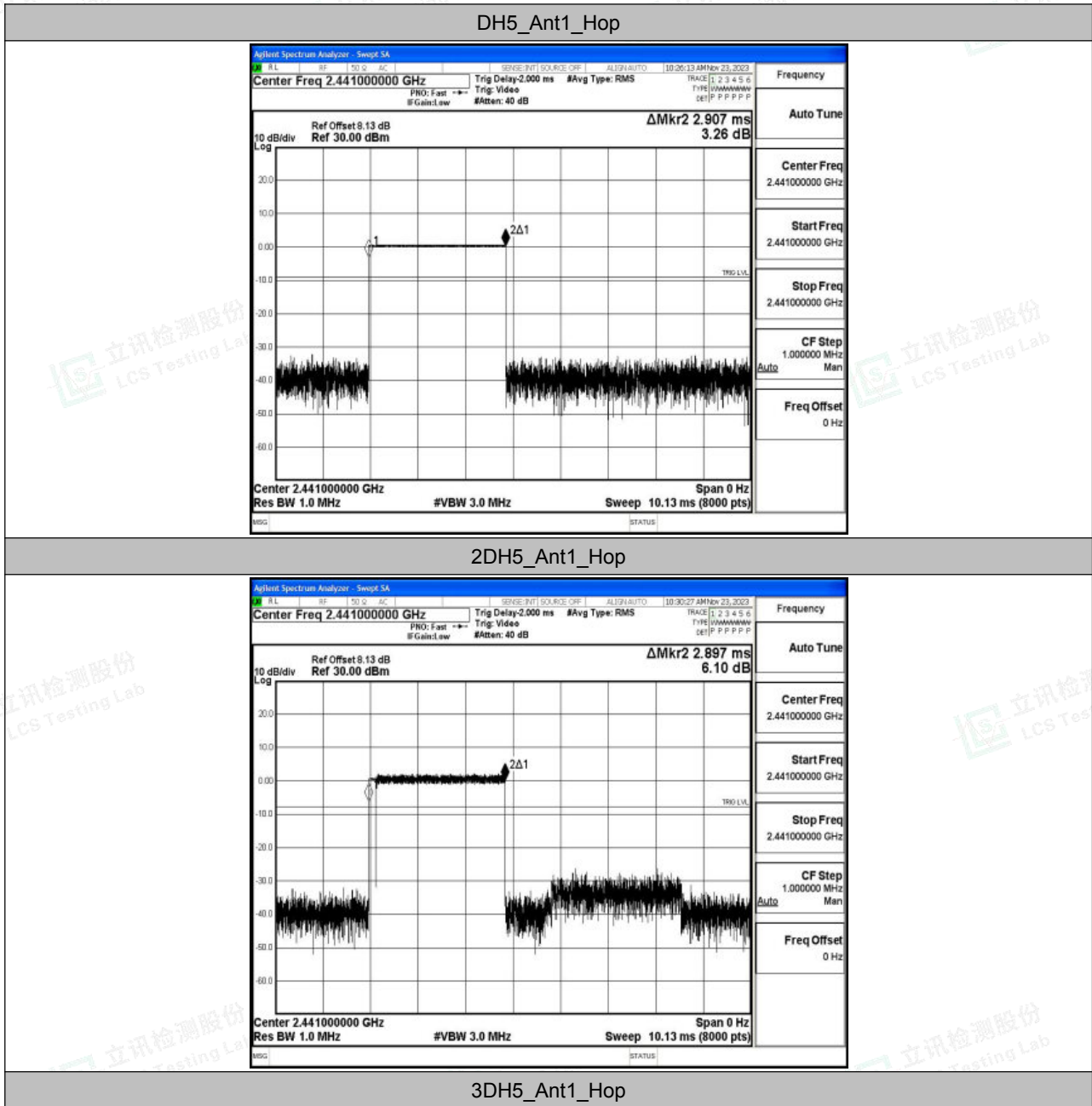
Test Result

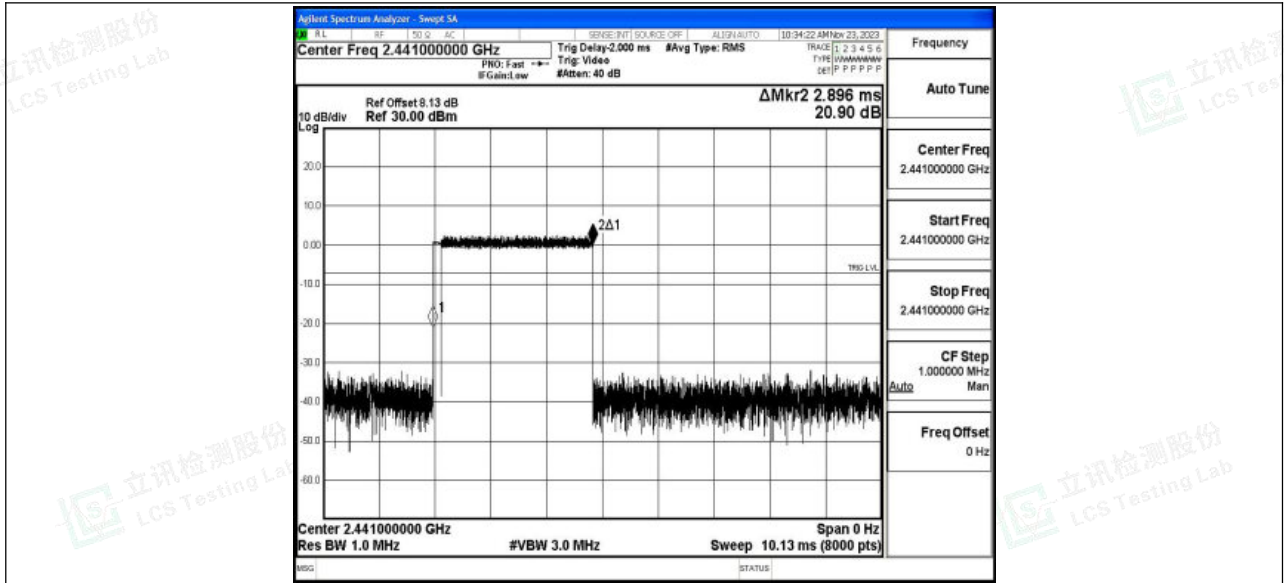
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.907	106.67	0.31	≤0.4	PASS
2DH5	Ant1	Hop	2.897	106.67	0.309	≤0.4	PASS
3DH5	Ant1	Hop	2.896	106.67	0.309	≤0.4	PASS





Test Graphs







A.5 Number of hopping channels

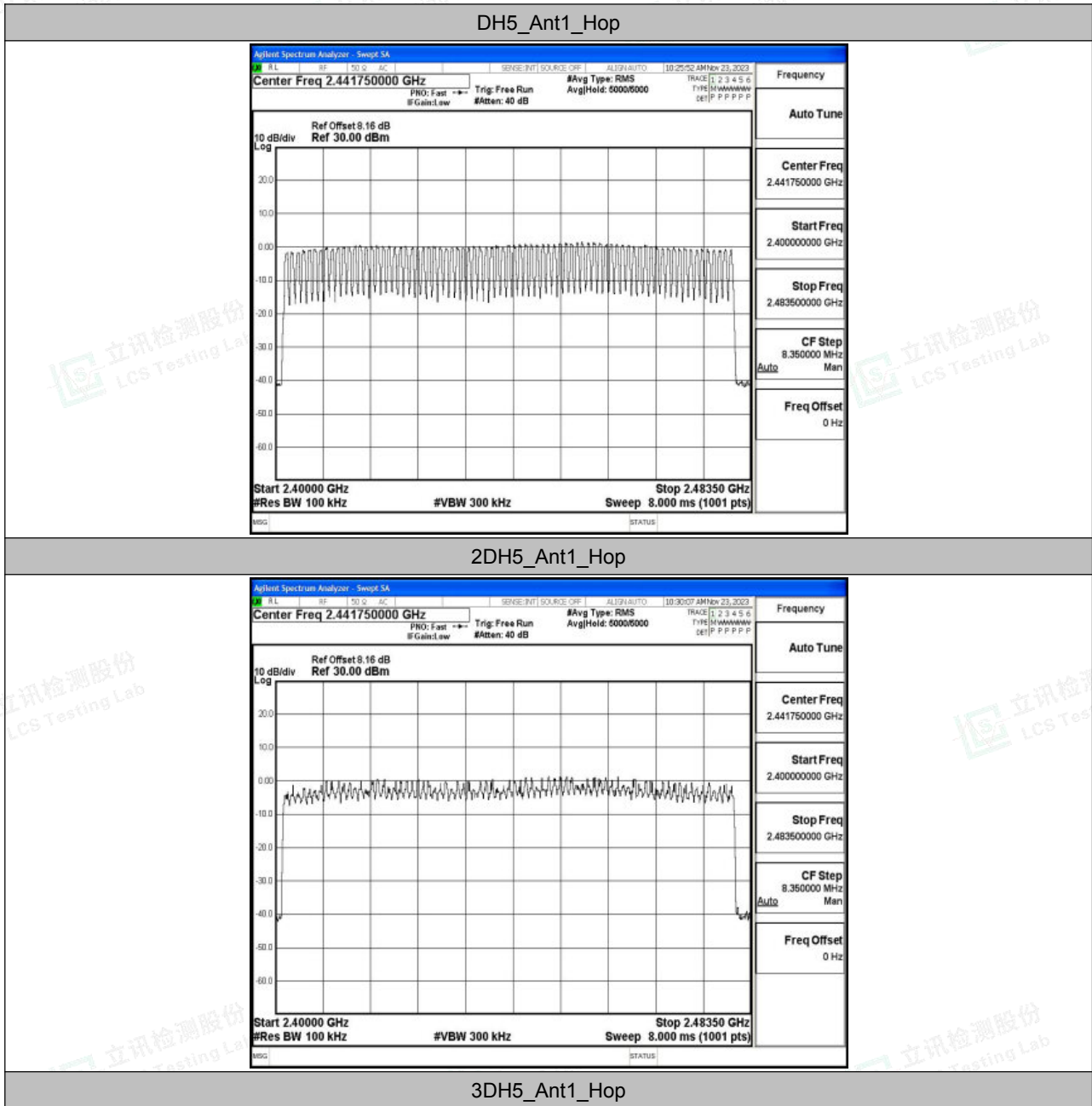
Test Result

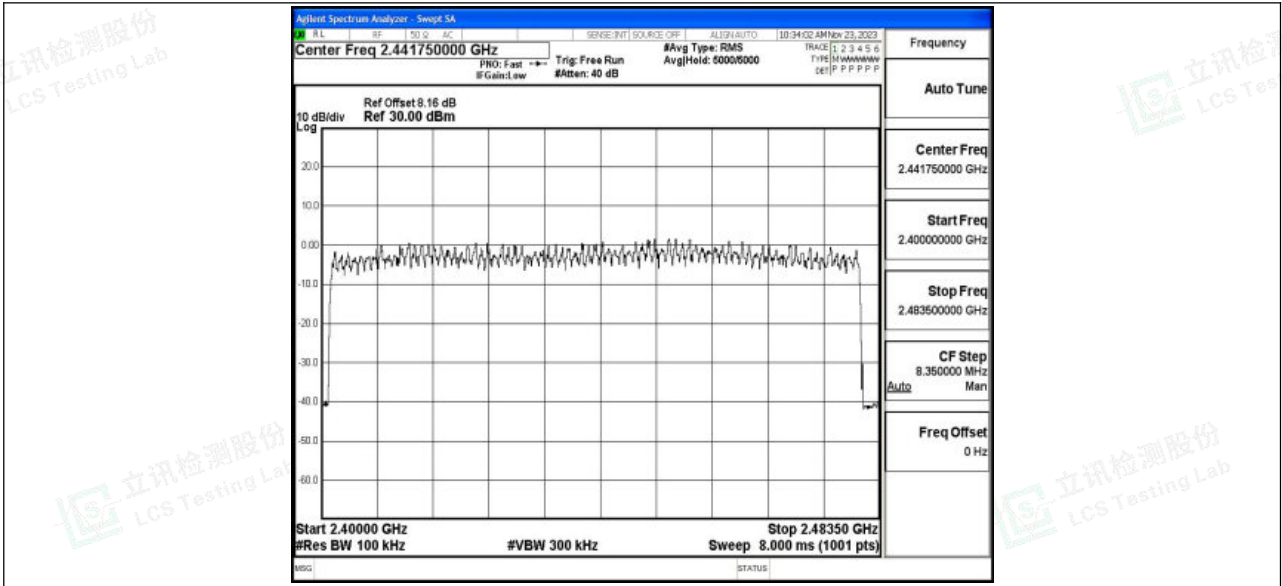
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

Test Result

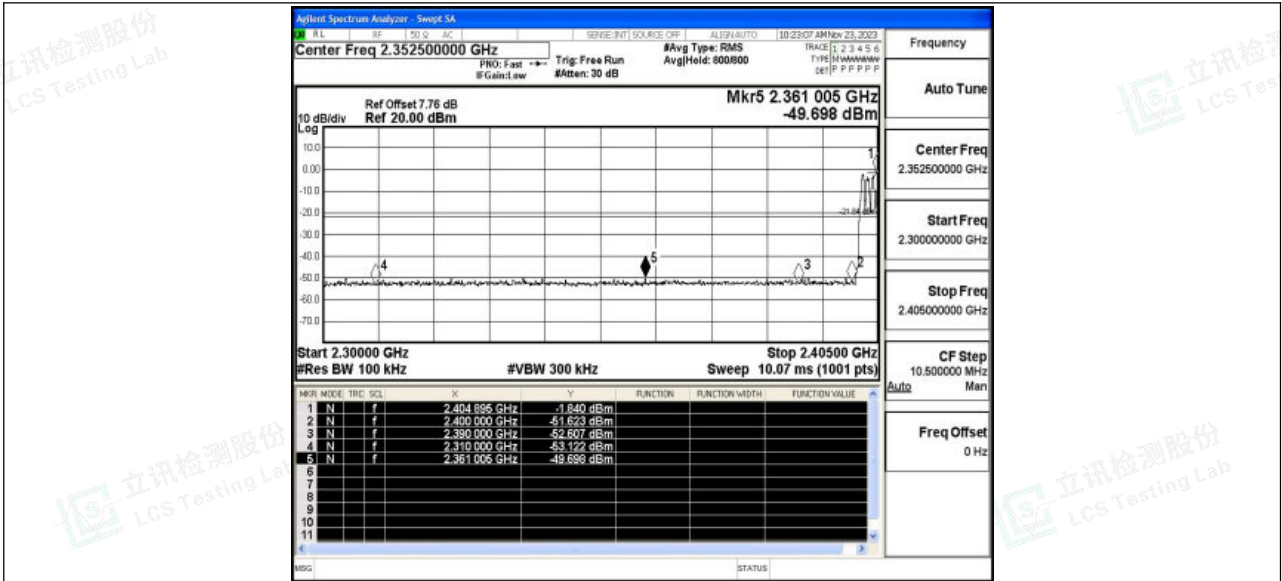
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-7.91	-50.64	≤-27.91	PASS
		High	2480	-6.10	-50.96	≤-26.1	PASS
		Low	Hop_2402	-1.84	-49.7	≤-21.84	PASS
		High	Hop_2480	-0.70	-49.12	≤-20.7	PASS
2DH5	Ant1	Low	2402	-7.35	-50.65	≤-27.35	PASS
		High	2480	-4.21	-51.02	≤-24.21	PASS
		Low	Hop_2402	-4.29	-50.09	≤-24.29	PASS
		High	Hop_2480	-1.60	-49.13	≤-21.6	PASS
3DH5	Ant1	Low	2402	-1.69	-51.11	≤-21.69	PASS
		High	2480	-3.92	-51.21	≤-23.92	PASS
		Low	Hop_2402	-4.62	-50.4	≤-24.62	PASS
		High	Hop_2480	-0.64	-49.75	≤-20.64	PASS



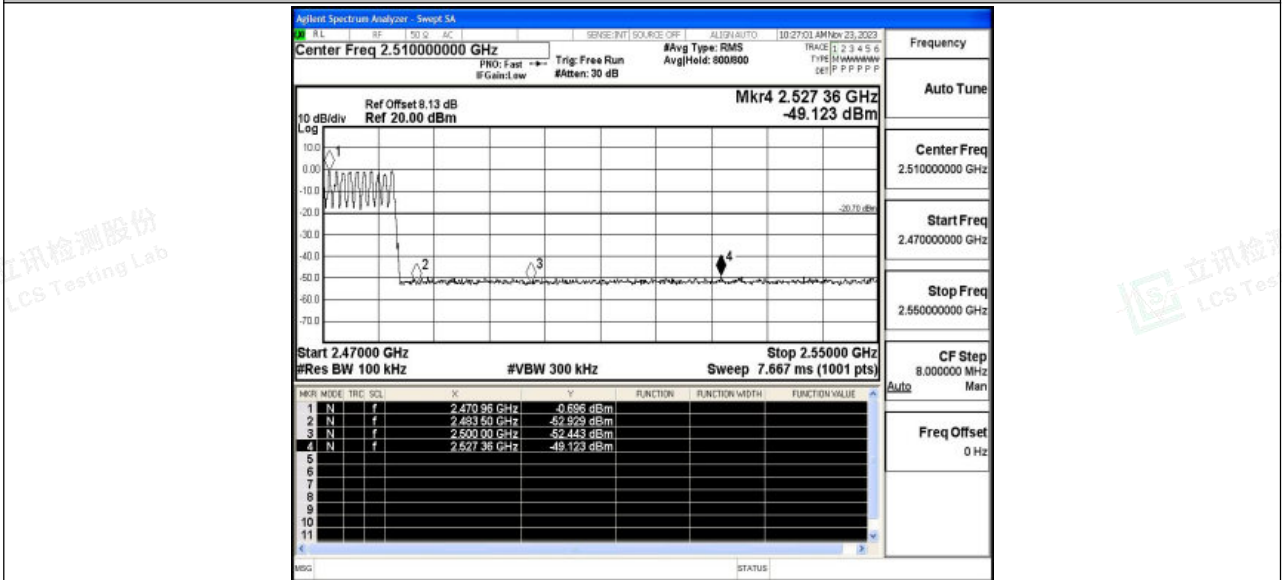


Test Graphs



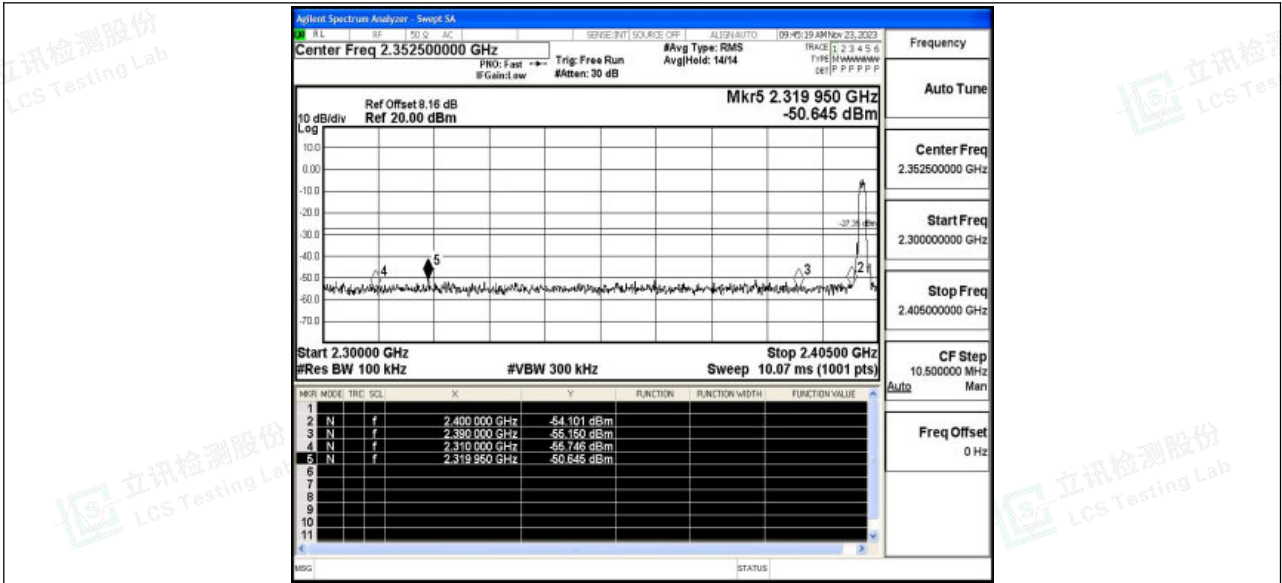


DH5_Ant1_High_Hop_2480

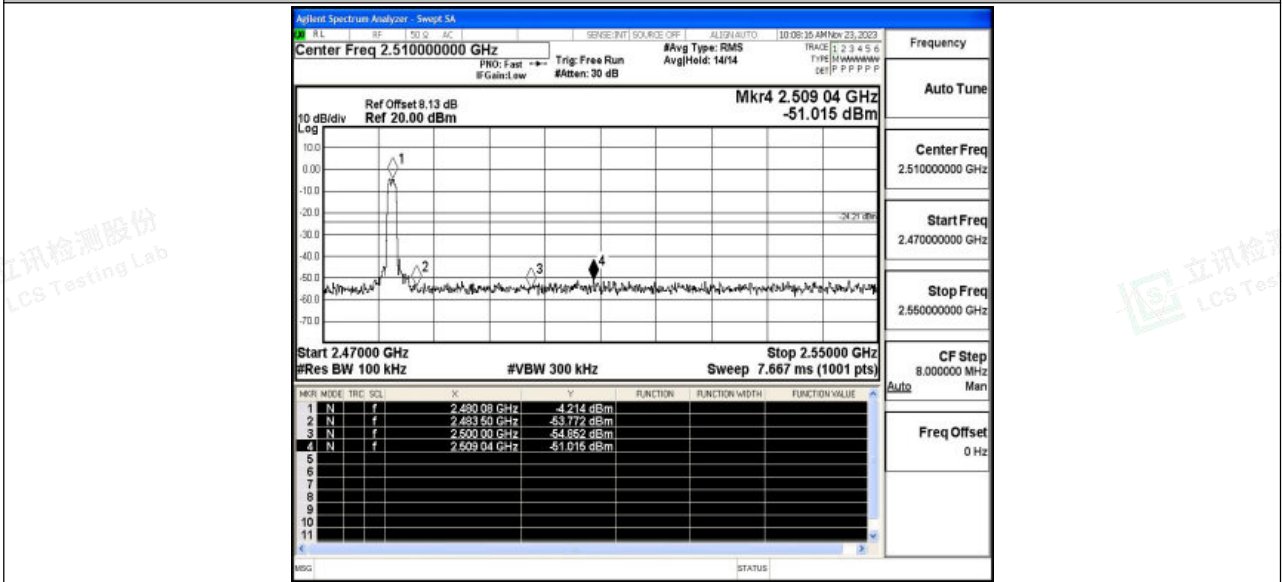


2DH5_Ant1_Low_2402



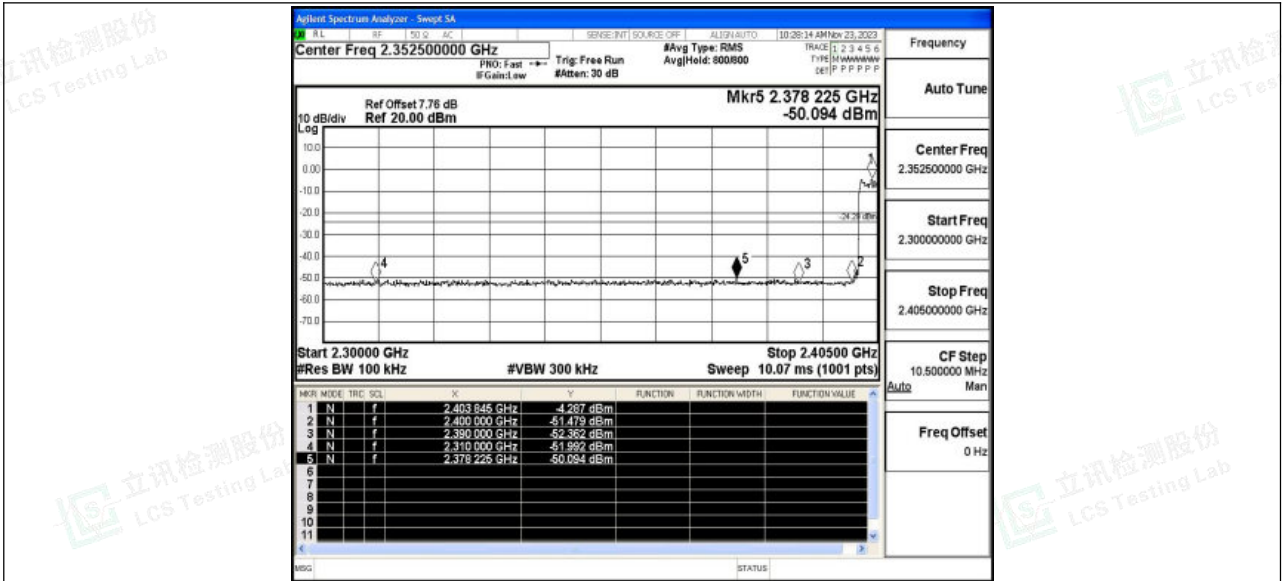


2DH5_Ant1_High_2480

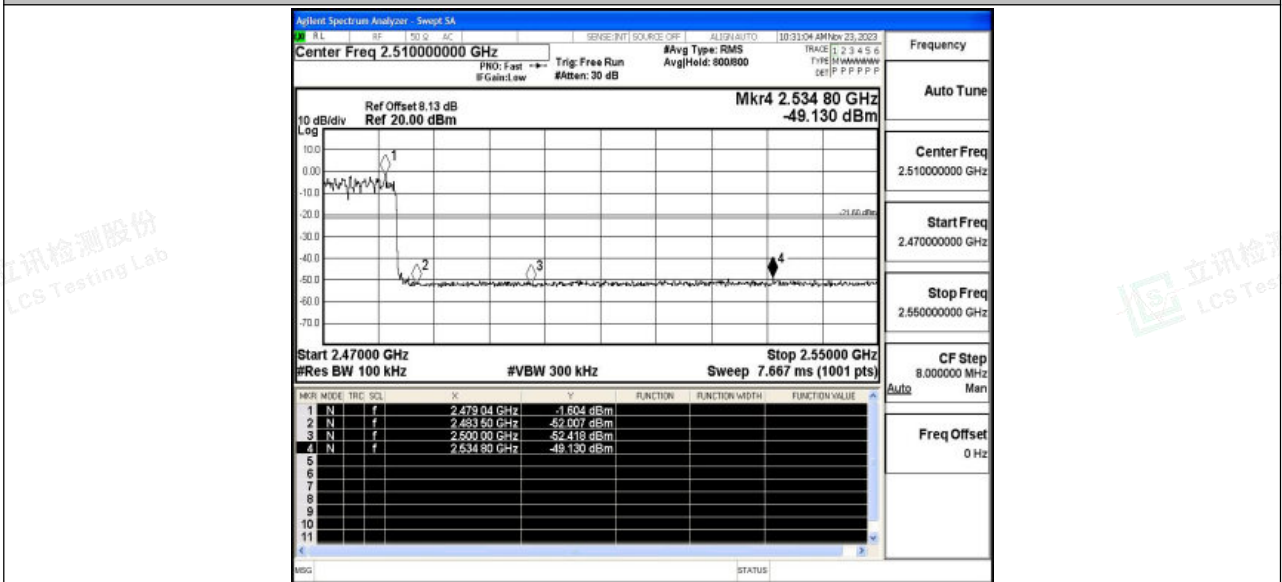


2DH5_Ant1_Low_Hop_2402



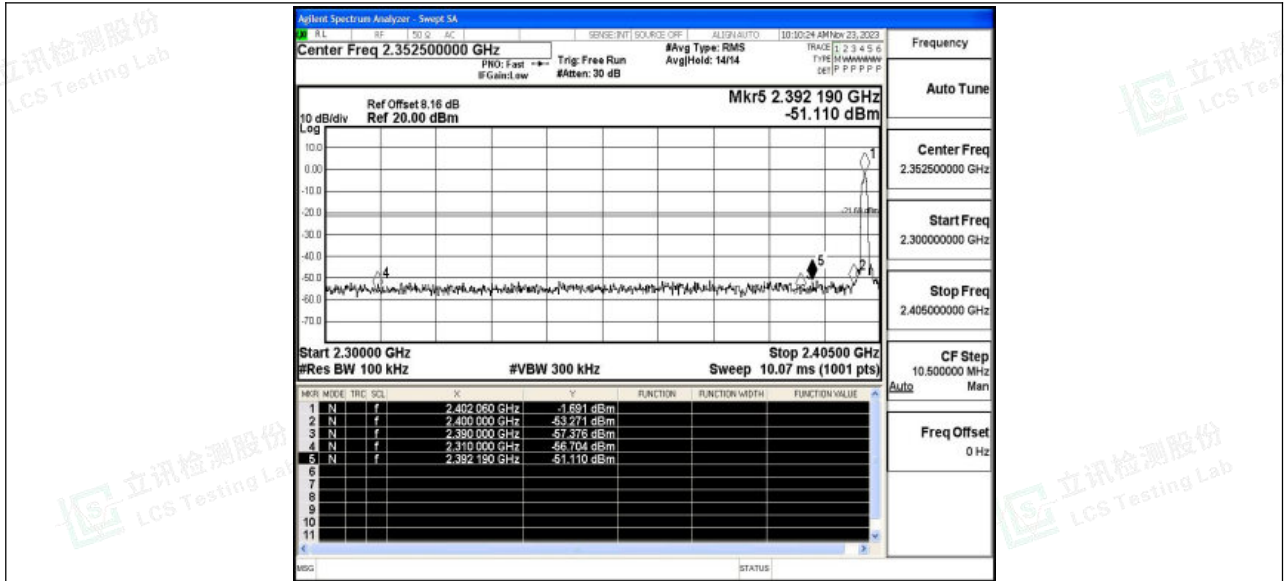


2DH5_Ant1_High_Hop_2480

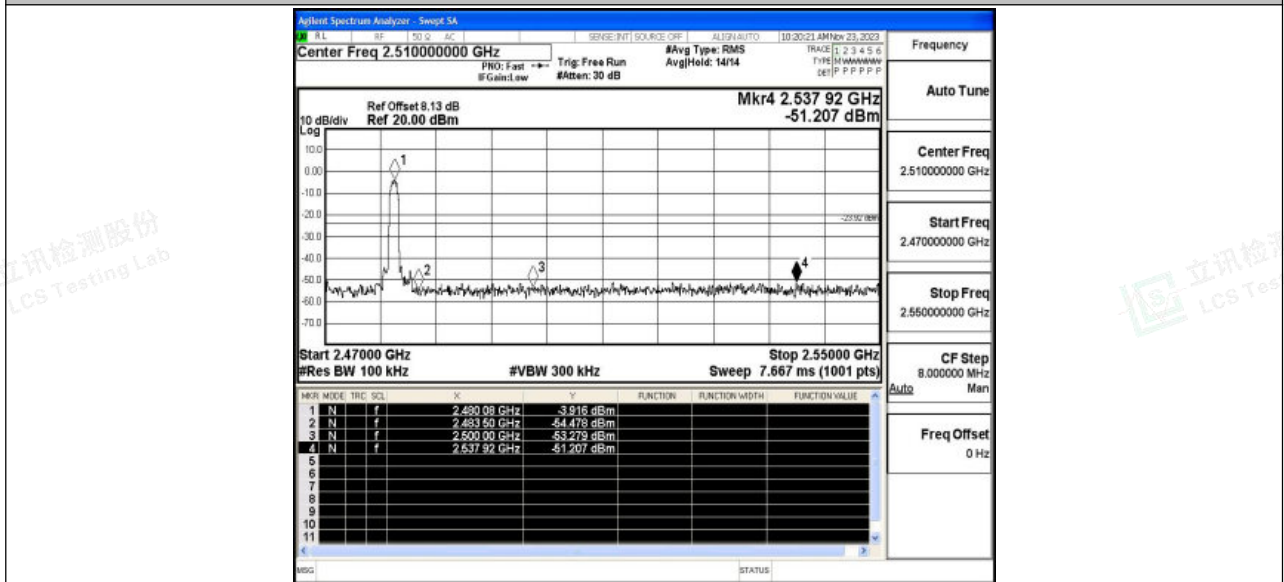


3DH5_Ant1_Low_2402



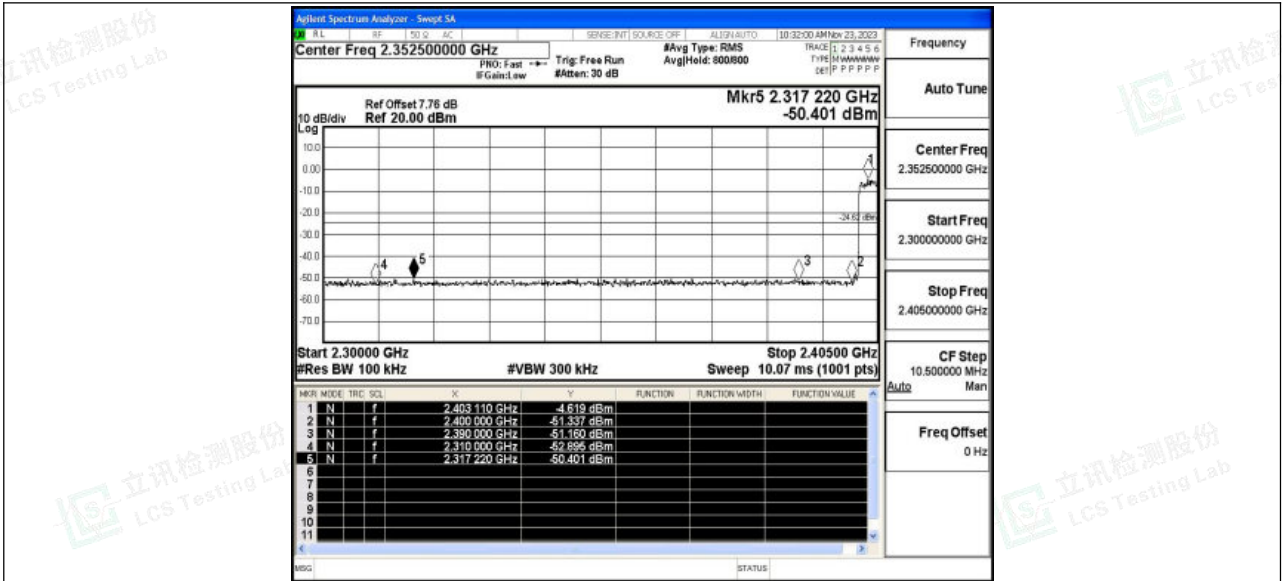


3DH5_Ant1_High_2480

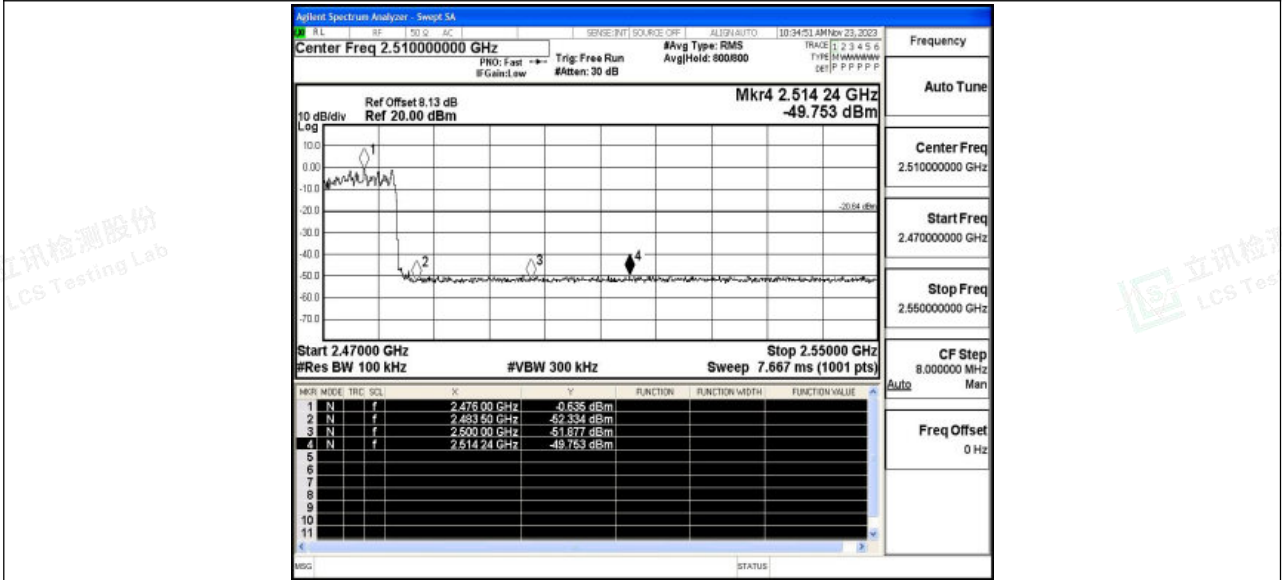


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

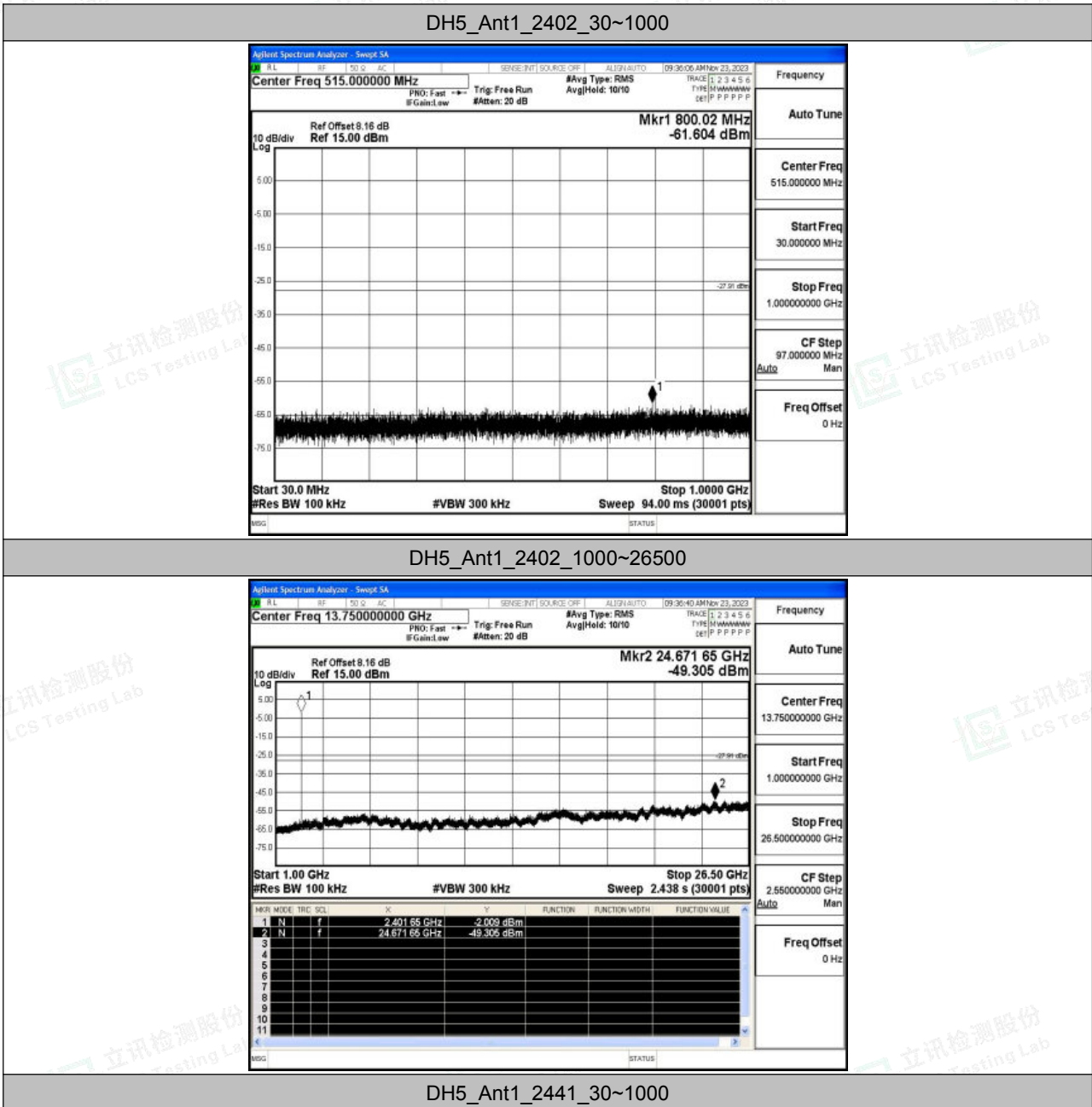
Test Result

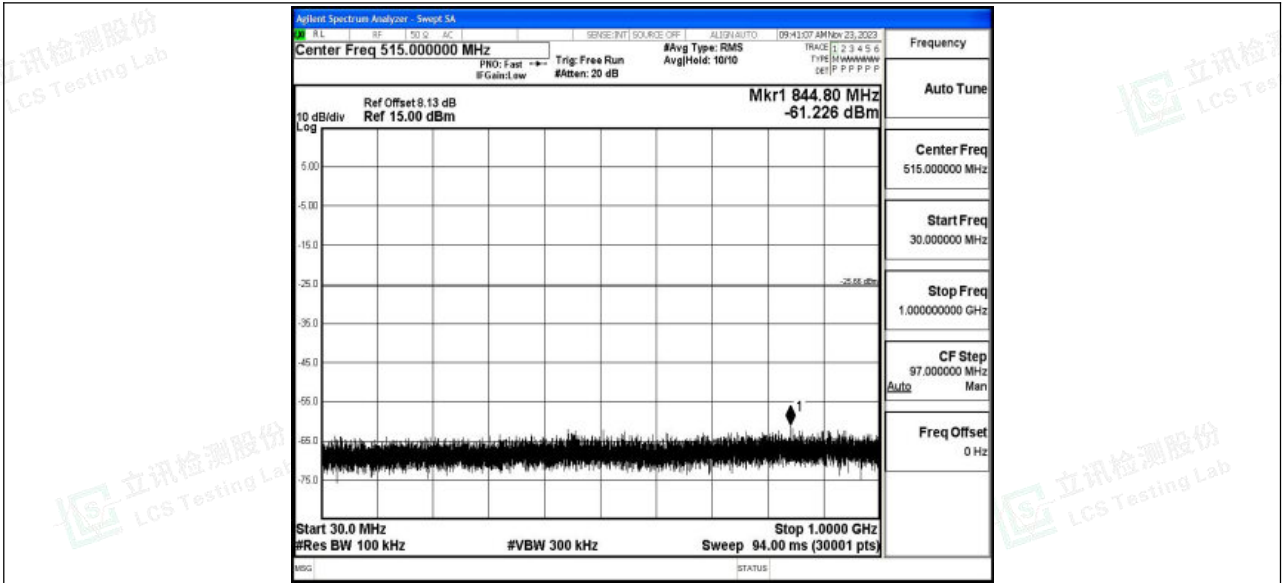
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict		
DH5	Ant1	2402	30~1000	-7.91	-61.6	≤-27.91	PASS		
			1000~26500	-7.91	-49.31	≤-27.91	PASS		
		2441	30~1000	-5.66	-61.23	≤-25.66	PASS		
			1000~26500	-5.66	-48.77	≤-25.66	PASS		
		2480	30~1000	-6.10	-61.43	≤-26.1	PASS		
			1000~26500	-6.10	-48.65	≤-26.1	PASS		
2DH5	Ant1	2402	30~1000	-7.35	-61.87	≤-27.35	PASS		
			1000~26500	-7.35	-48.88	≤-27.35	PASS		
		2441	Reference	0.49	0.49	---	PASS		
			30~1000	0.49	-61.78	≤-19.51	PASS		
			1000~26500	0.49	-49.17	≤-19.51	PASS		
		2480	Reference	-0.72	-0.72	---	PASS		
			30~1000	-0.72	-62.02	≤-20.72	PASS		
			1000~26500	-0.72	-48.76	≤-20.72	PASS		
		3DH5	Ant1	2402	Reference	-1.72	-1.72	---	PASS
					30~1000	-1.72	-61.49	≤-21.72	PASS
					1000~26500	-1.72	-48.31	≤-21.72	PASS
				2441	Reference	-0.55	-0.55	---	PASS
30~1000	-0.55				-61.12	≤-20.55	PASS		
1000~26500	-0.55				-48.56	≤-20.55	PASS		
2480	Reference			-1.34	-1.34	---	PASS		
	30~1000			-1.34	-61.33	≤-21.34	PASS		
	1000~26500			-1.34	-49.54	≤-21.34	PASS		



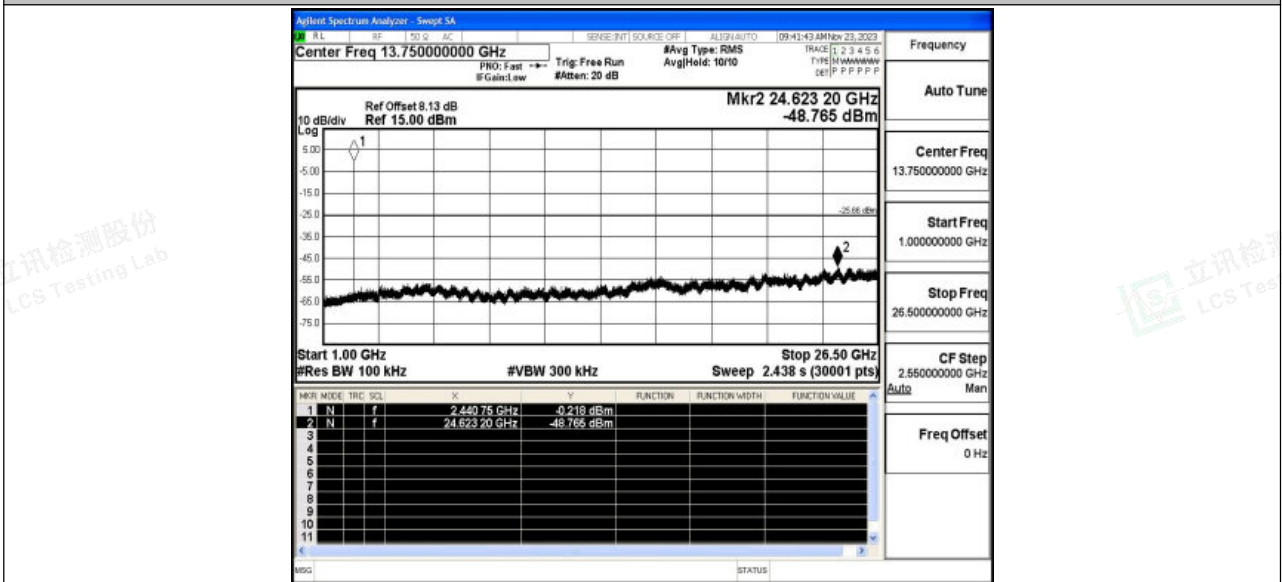


Test Graphs



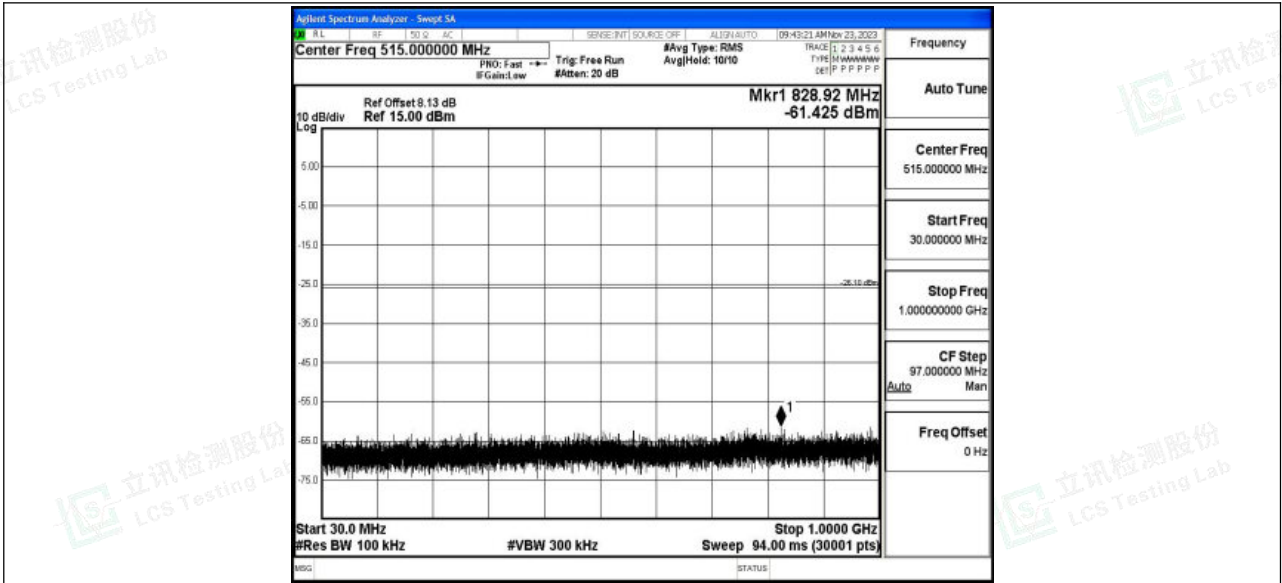


DH5_Ant1_2441_1000~26500

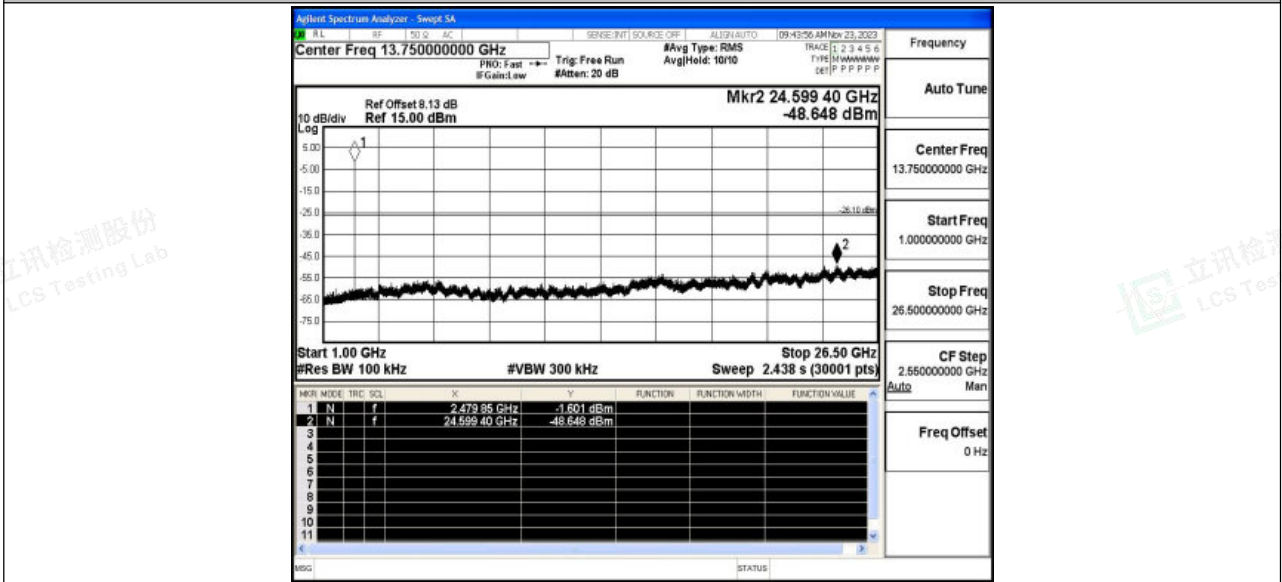


DH5_Ant1_2480_30~1000



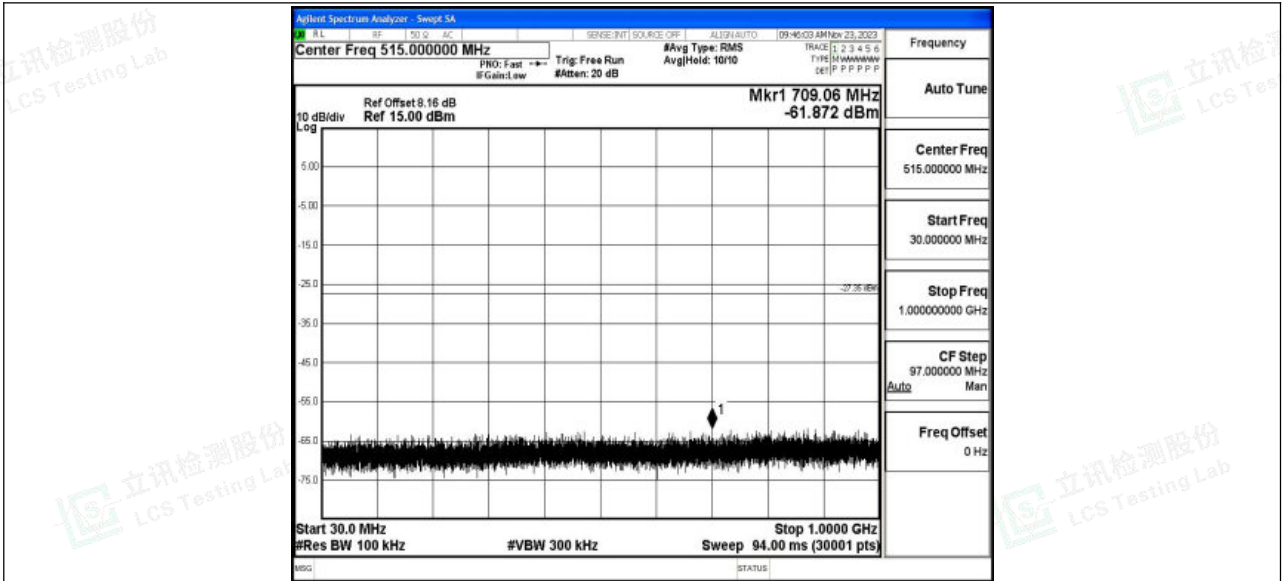


DH5_Ant1_2480_1000~26500

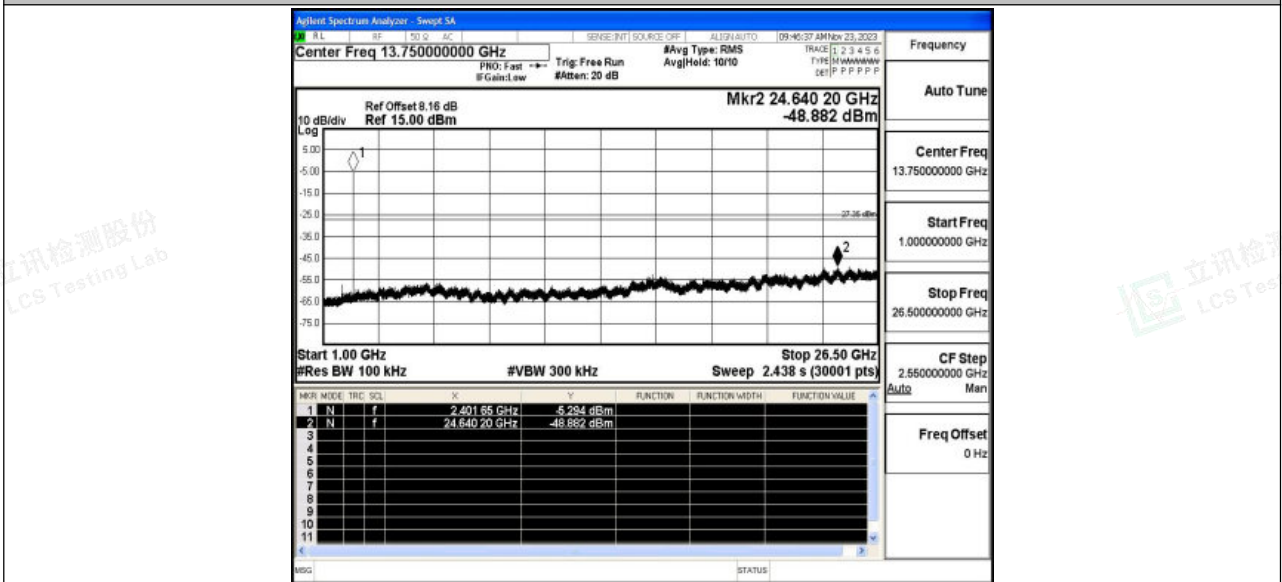


2DH5_Ant1_2402_30~1000



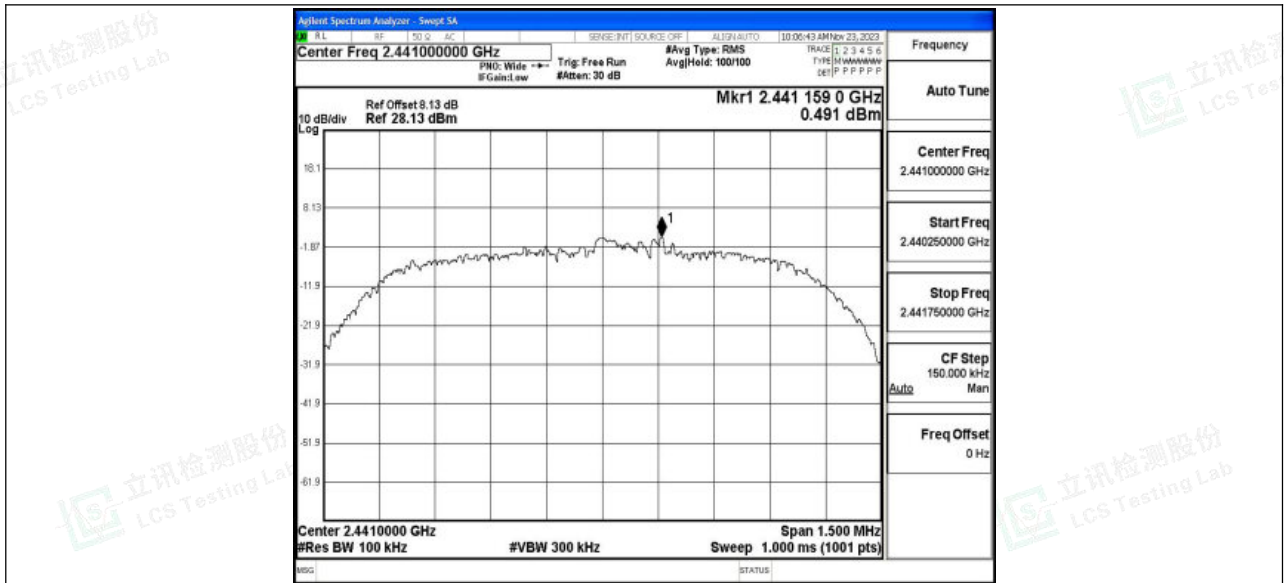


2DH5_Ant1_2402_1000~26500

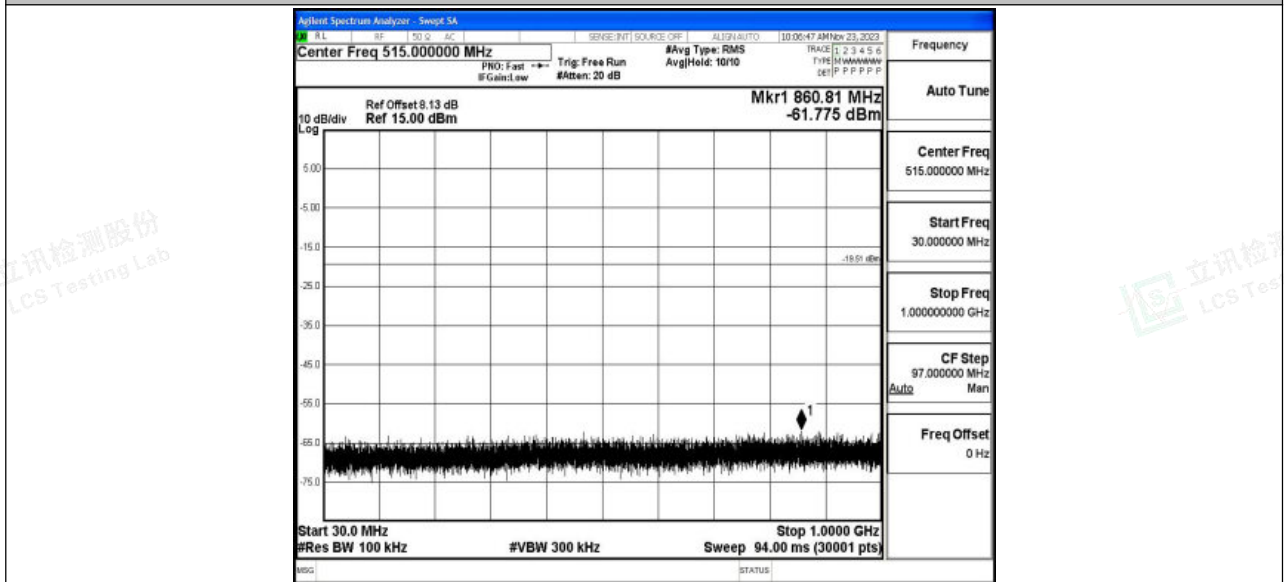


2DH5_Ant1_2441_0~Reference



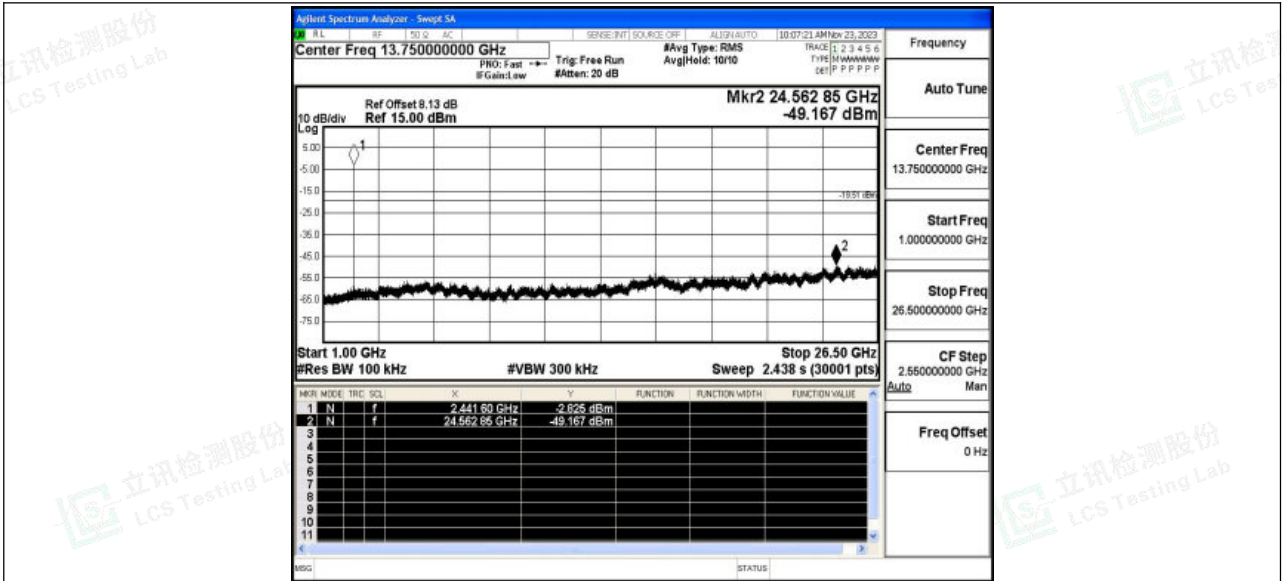


2DH5_Ant1_2441_30~1000

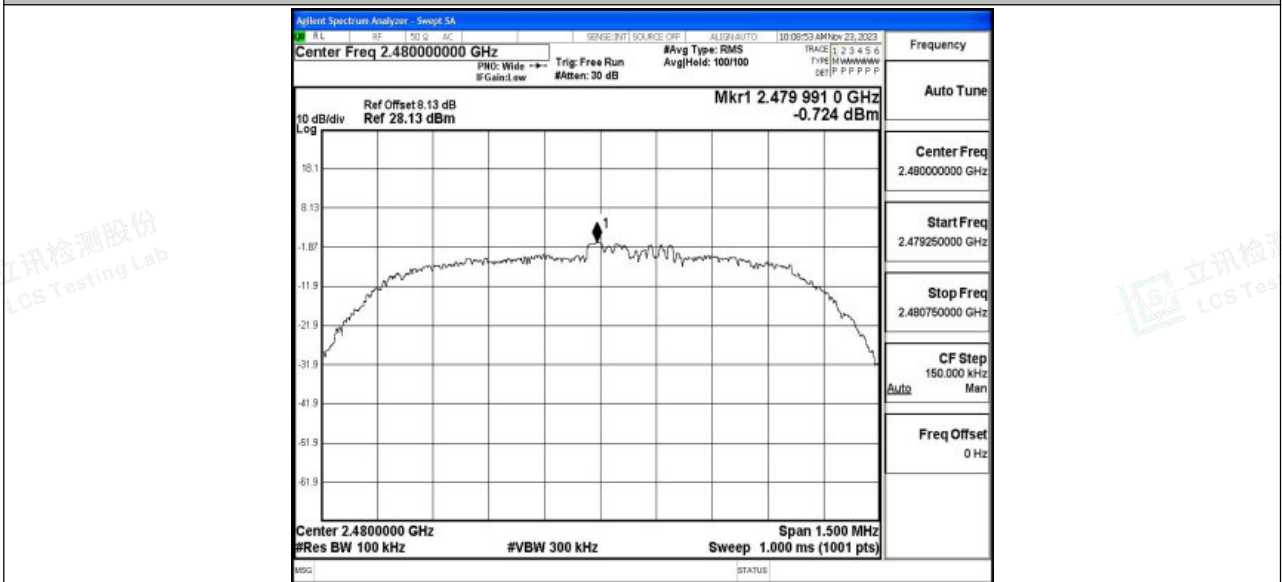


2DH5_Ant1_2441_1000~26500



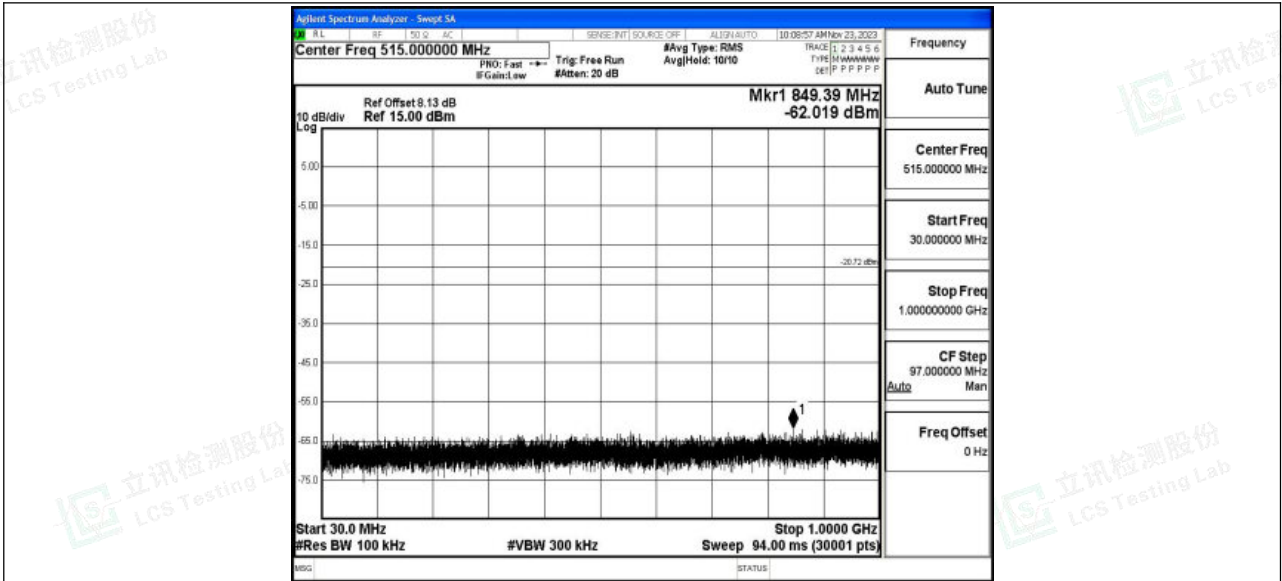


2DH5_Ant1_2480_0~Reference

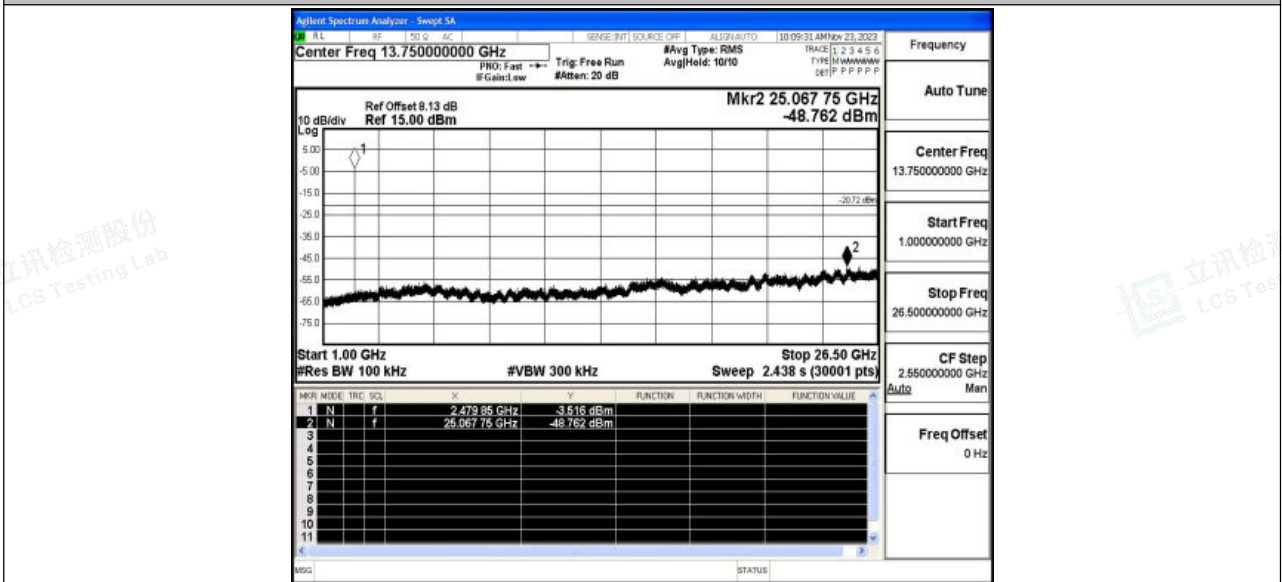


2DH5_Ant1_2480_30~1000



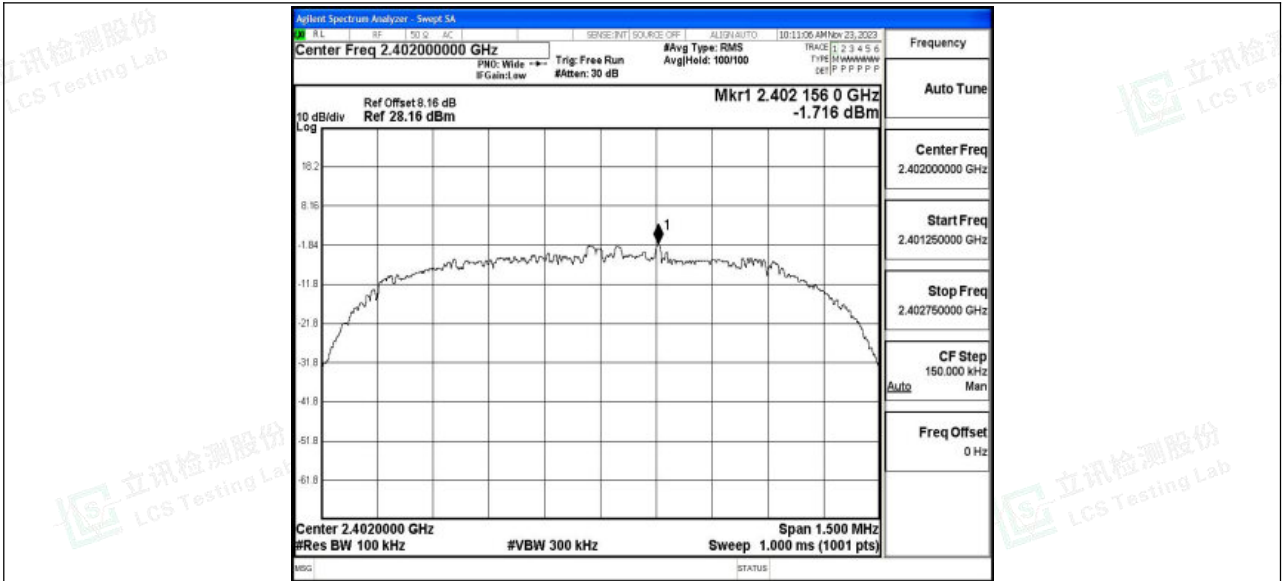


2DH5_Ant1_2480_1000~26500

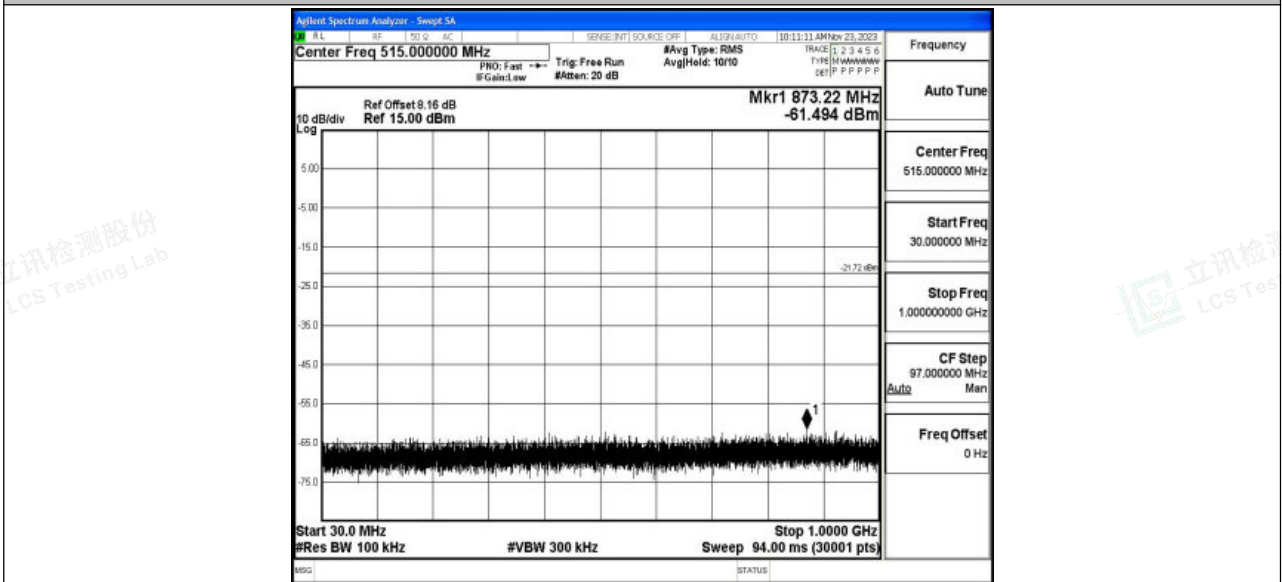


3DH5_Ant1_2402_0~Reference



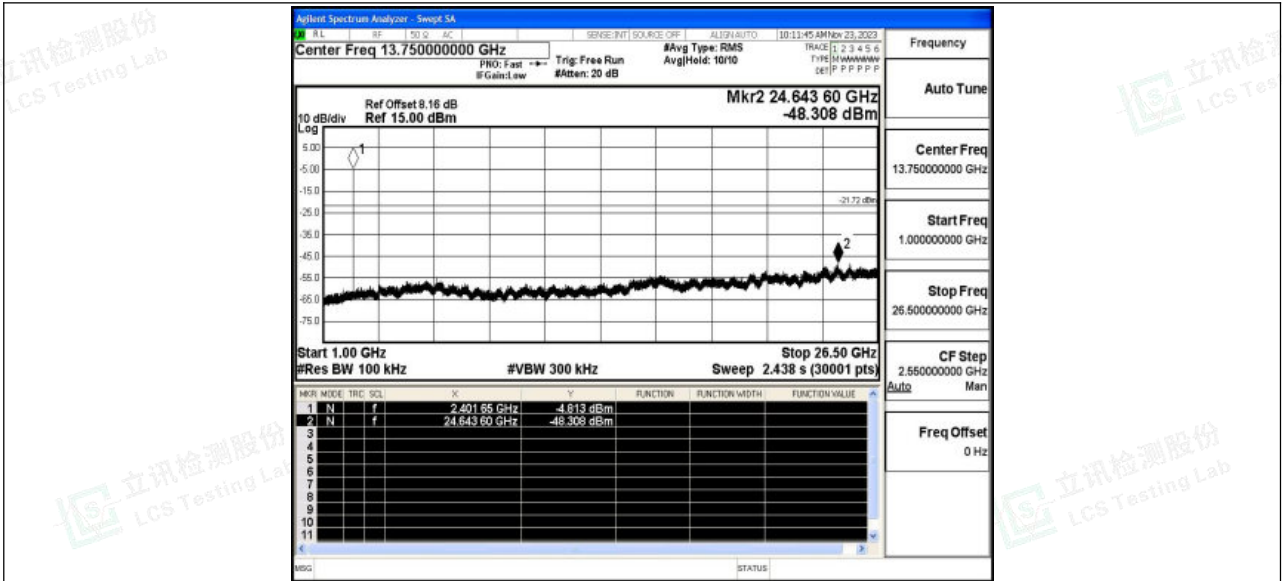


3DH5_Ant1_2402_30~1000

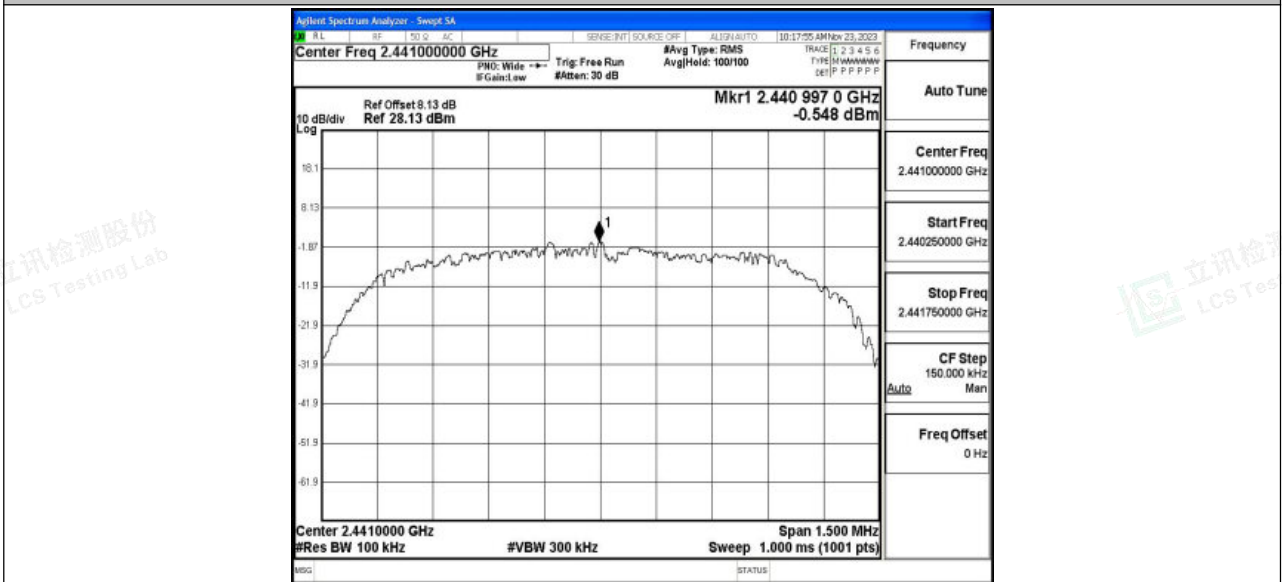


3DH5_Ant1_2402_1000~26500



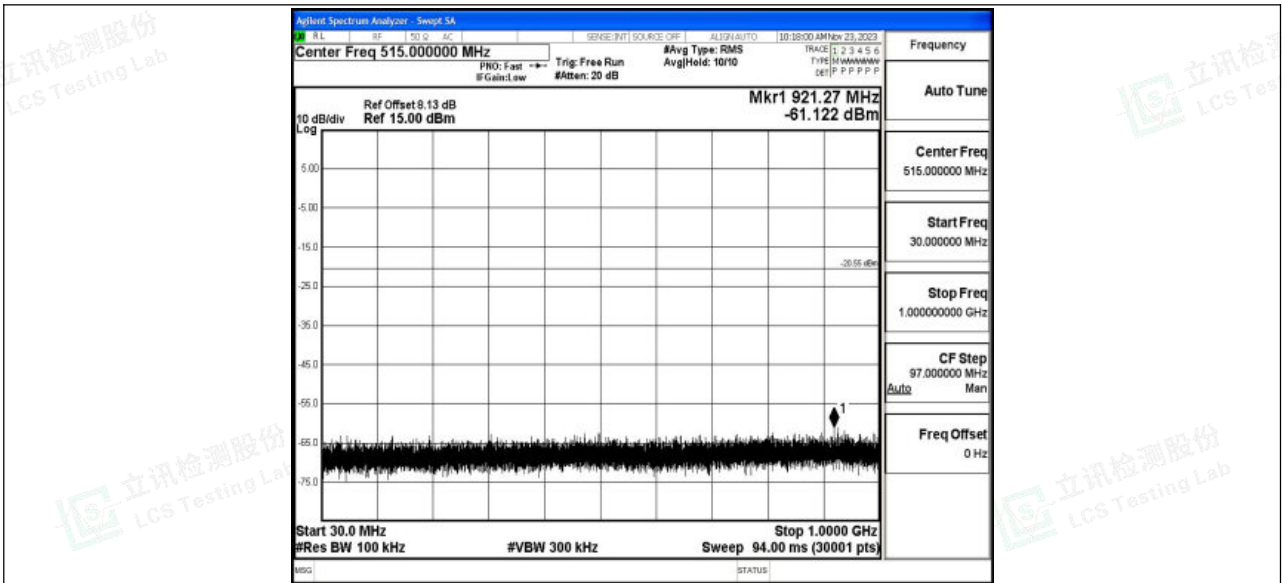


3DH5_Ant1_2441_0~Reference

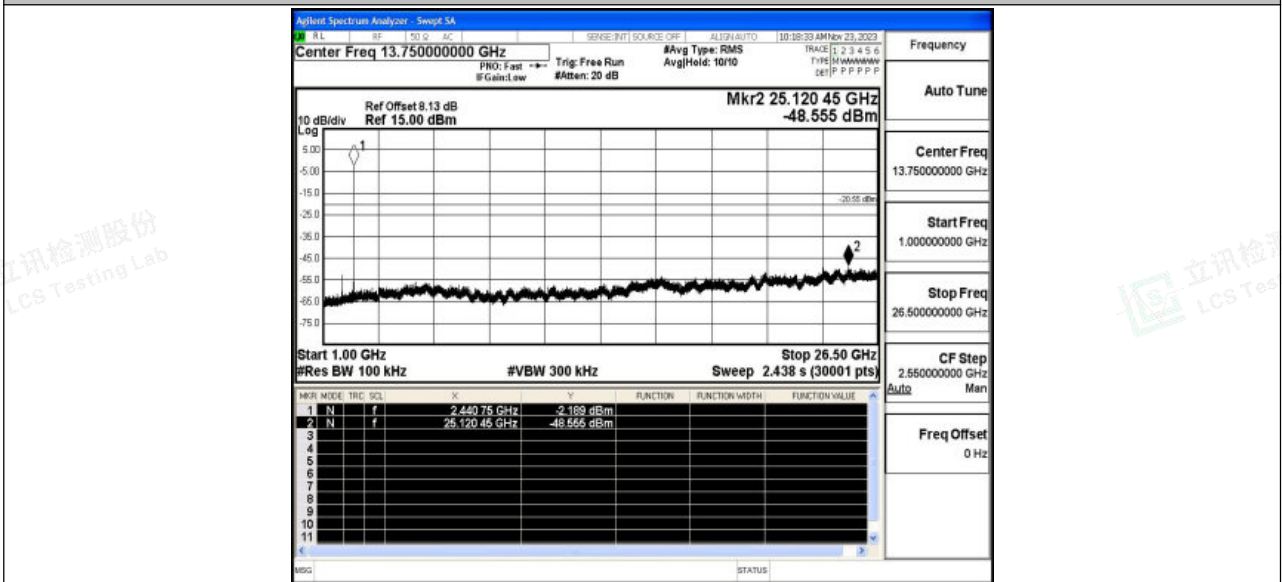


3DH5_Ant1_2441_30~1000



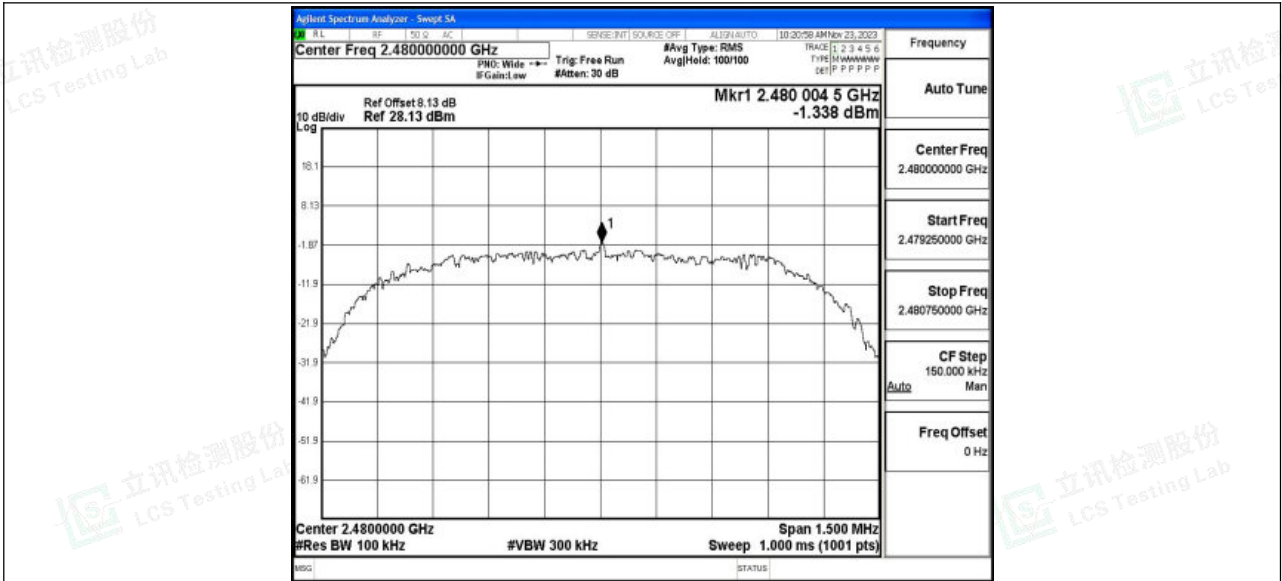


3DH5_Ant1_2441_1000~26500

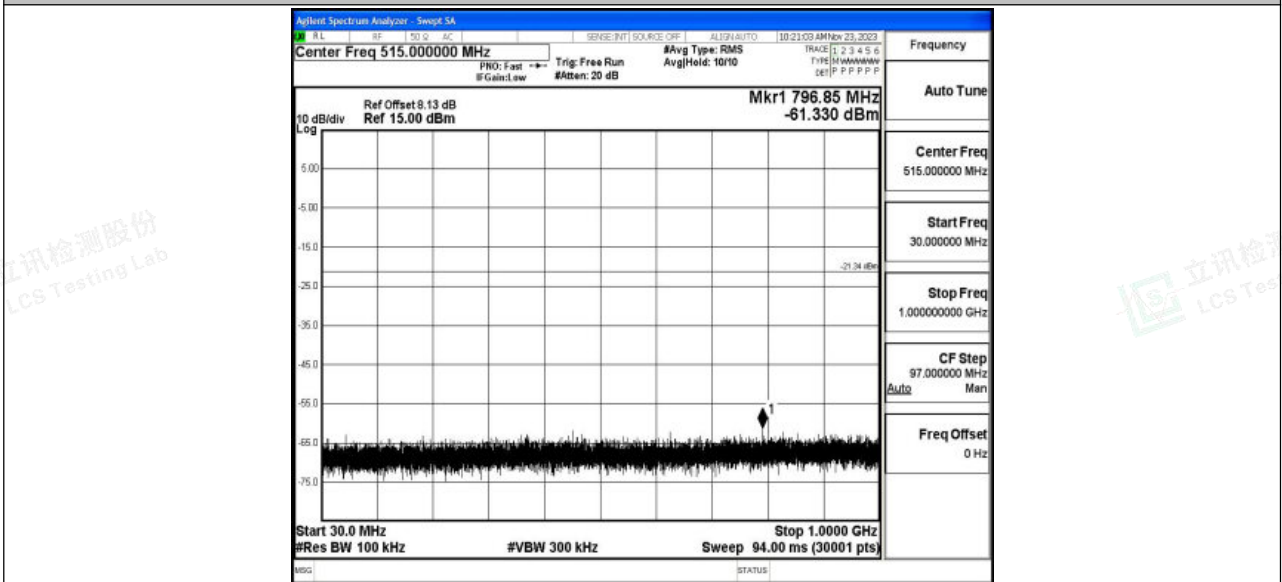


3DH5_Ant1_2480_0~Reference



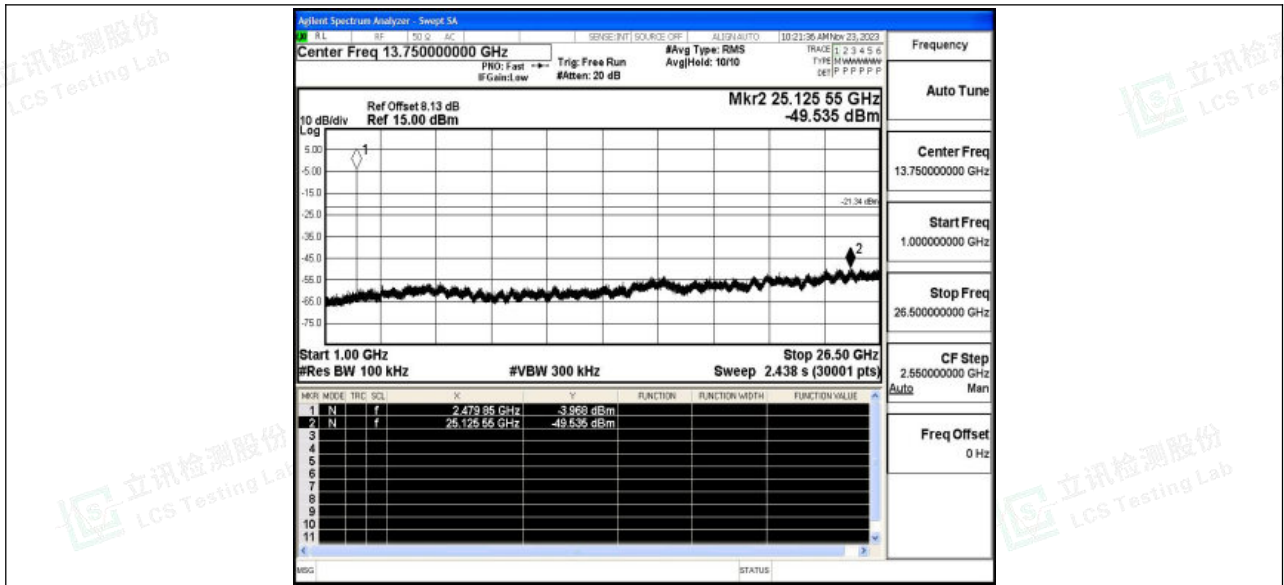


3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500







A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.17	≤-41.20	46.03	≤54	PASS
				AV	2383.370	-48.67	≤-41.20	46.53	≤54	PASS
				AV	2390.000	-48.92	≤-41.20	46.28	≤54	PASS
				Peak	2310.000	-44.08	≤-21.20	51.12	≤74	PASS
				Peak	2341.265	-39.47	≤-21.20	55.73	≤74	PASS
				Peak	2390.000	-45.17	≤-21.20	50.03	≤74	PASS
		High	2480	AV	2483.500	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2483.520	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2500.000	-48.65	≤-41.20	46.55	≤54	PASS
				Peak	2483.500	-43.02	≤-21.20	52.18	≤74	PASS
				Peak	2492.240	-38.88	≤-21.20	56.32	≤74	PASS
				Peak	2500.000	-43.62	≤-21.20	51.58	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-41.45	≤-21.20	53.75	≤74	PASS
				Peak	2361.845	-38.73	≤-21.20	56.47	≤74	PASS
				Peak	2390.000	-40.59	≤-21.20	54.61	≤74	PASS
		High	Hop_2480	Peak	2483.500	-41.33	≤-21.20	53.87	≤74	PASS
				Peak	2489.680	-38.59	≤-21.20	56.61	≤74	PASS
				Peak	2500.000	-40.03	≤-21.20	55.17	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49	≤-41.20	46.20	≤54	PASS
				AV	2379.170	-48.66	≤-41.20	46.54	≤54	PASS
				AV	2390.000	-48.96	≤-41.20	46.24	≤54	PASS
				Peak	2310.000	-43.24	≤-21.20	51.96	≤74	PASS
				Peak	2339.795	-39.86	≤-21.20	55.34	≤74	PASS
				Peak	2390.000	-41.47	≤-21.20	53.73	≤74	PASS
		High	2480	AV	2483.500	-48.08	≤-41.20	47.12	≤54	PASS
				AV	2483.520	-48.08	≤-41.20	47.12	≤54	PASS
				AV	2500.000	-48.57	≤-41.20	46.63	≤54	PASS
				Peak	2483.500	-45.58	≤-21.20	49.62	≤74	PASS
				Peak	2489.600	-38.82	≤-21.20	56.38	≤74	PASS
				Peak	2500.000	-42.92	≤-21.20	52.28	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.26	≤-21.20	54.94	≤74	PASS
				Peak	2379.170	-37.95	≤-21.20	57.25	≤74	PASS
				Peak	2390.000	-41.22	≤-21.20	53.98	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.22	≤-21.20	54.98	≤74	PASS
				Peak	2484.800	-38.17	≤-21.20	57.03	≤74	PASS
				Peak	2500.000	-40.44	≤-21.20	54.76	≤74	PASS



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Scan code to check authenticity



3DH5	Ant1	Low	2402	AV	2310.000	-49.12	≤-41.20	46.08	≤54	PASS
				AV	2375.495	-48.65	≤-41.20	46.55	≤54	PASS
				AV	2390.000	-48.88	≤-41.20	46.32	≤54	PASS
				Peak	2310.000	-45.85	≤-21.20	49.35	≤74	PASS
				Peak	2377.490	-39.51	≤-21.20	55.69	≤74	PASS
				Peak	2390.000	-45.32	≤-21.20	49.88	≤74	PASS
		High	2480	AV	2483.500	-47.9	≤-41.20	47.30	≤54	PASS
				AV	2483.520	-47.9	≤-41.20	47.30	≤54	PASS
				AV	2500.000	-48.69	≤-41.20	46.51	≤54	PASS
				Peak	2483.500	-40.53	≤-21.20	54.67	≤74	PASS
				Peak	2491.200	-38.22	≤-21.20	56.98	≤74	PASS
				Peak	2500.000	-41.07	≤-21.20	54.13	≤74	PASS
	Low	Hop_24 02	Peak	2310.000	-41.93	≤-21.20	53.27	≤74	PASS	
			Peak	2363.630	-38.94	≤-21.20	56.26	≤74	PASS	
			Peak	2390.000	-40.81	≤-21.20	54.39	≤74	PASS	
	High	Hop_24 80	Peak	2483.500	-41.17	≤-21.20	54.03	≤74	PASS	
			Peak	2496.560	-37.77	≤-21.20	57.43	≤74	PASS	
			Peak	2500.000	-40.57	≤-21.20	54.63	≤74	PASS	

Note:

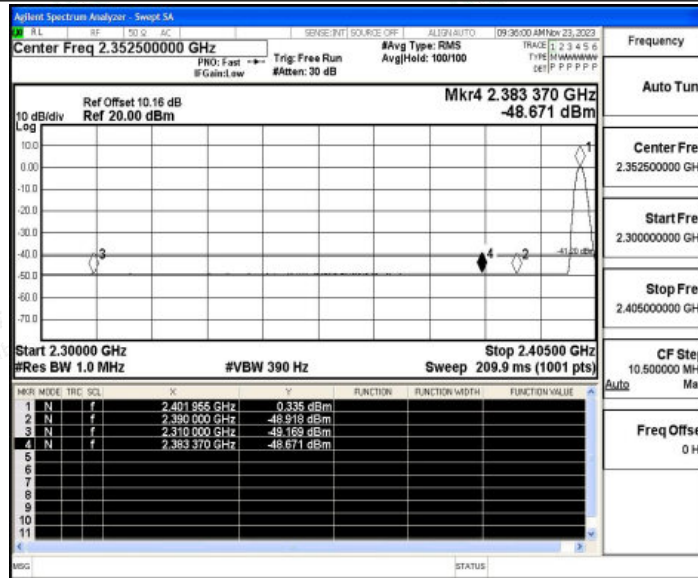
- The Antenna Gain is compensated in the graph.
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



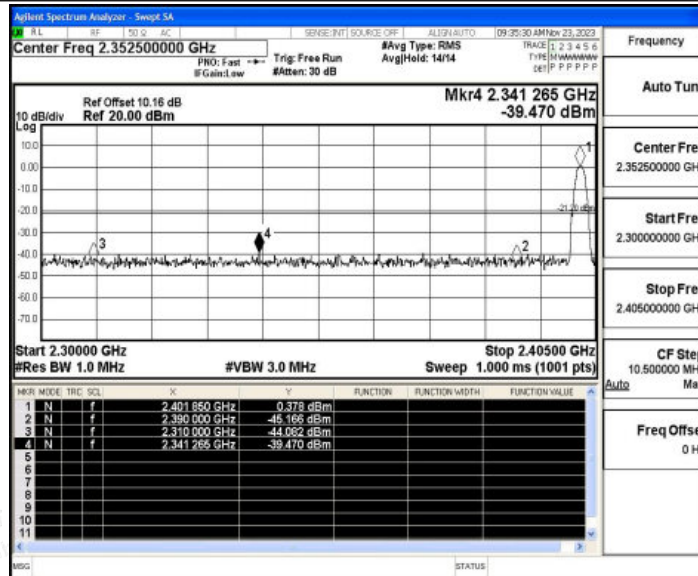


Test Graphs

DH5_Ant1_Low_2402_AV

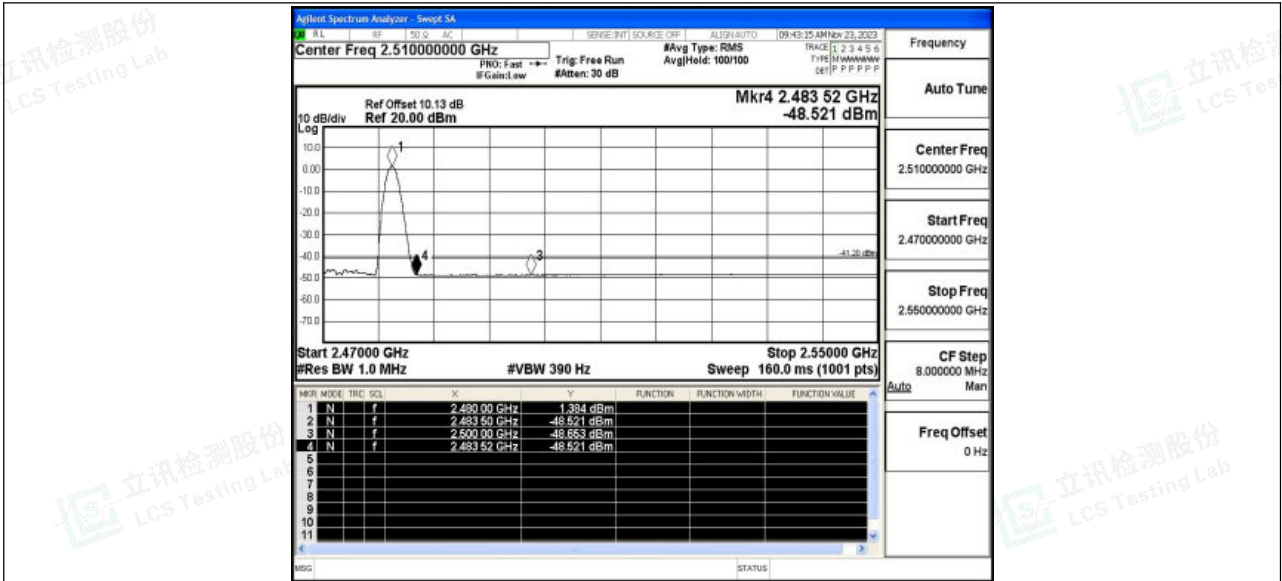


DH5_Ant1_Low_2402_Peak

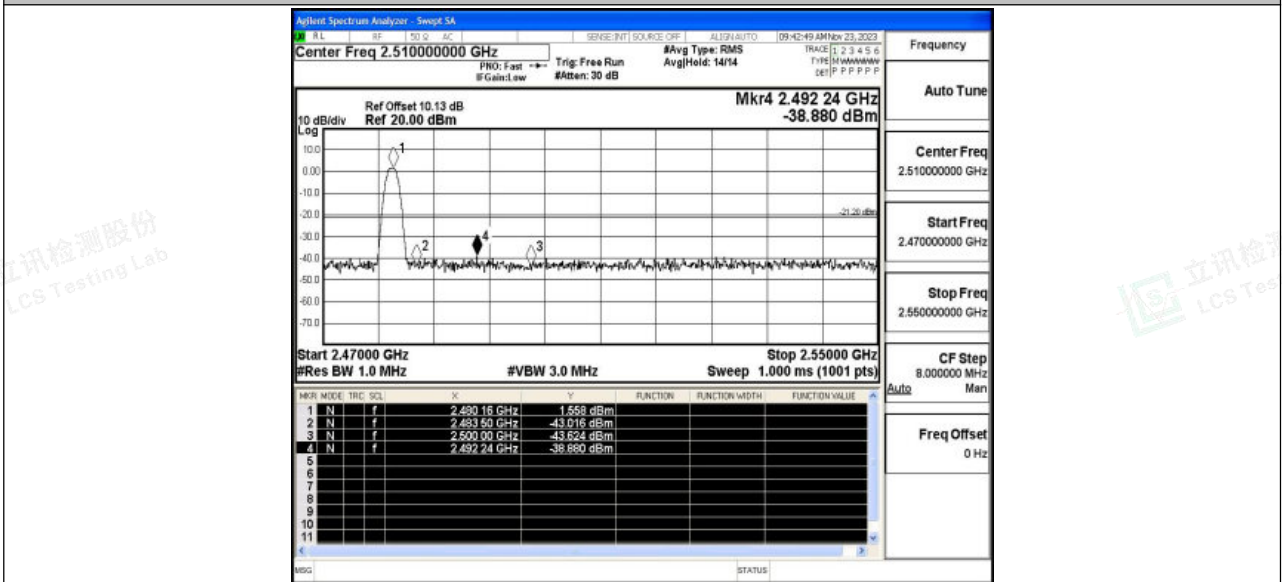


DH5_Ant1_High_2480_AV



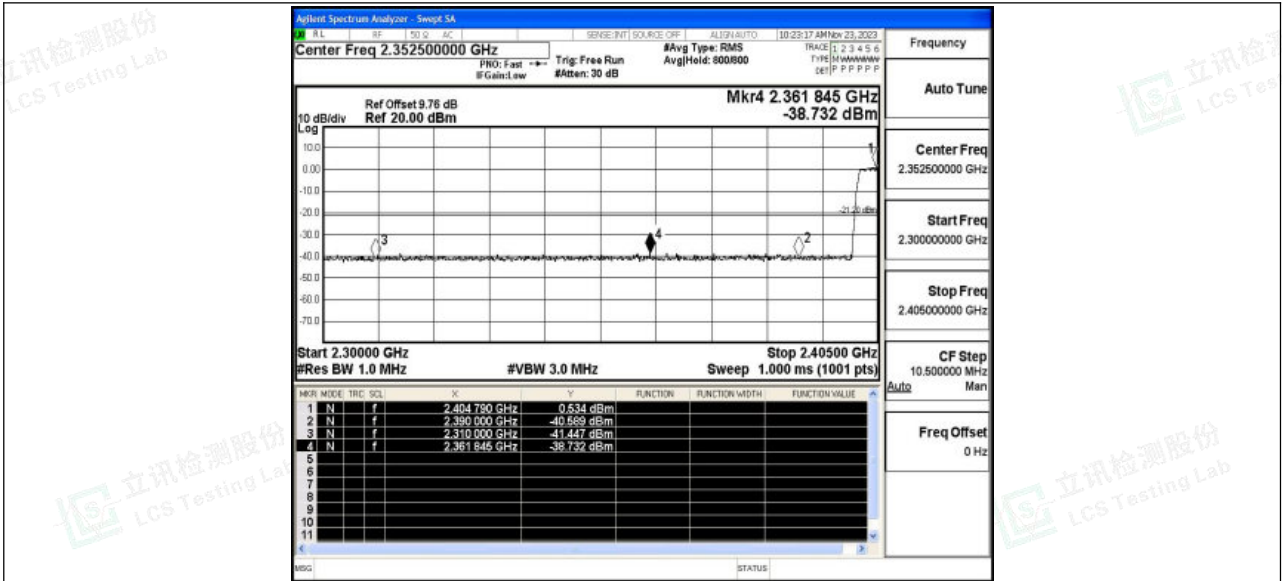


DH5_Ant1_High_2480_Peak

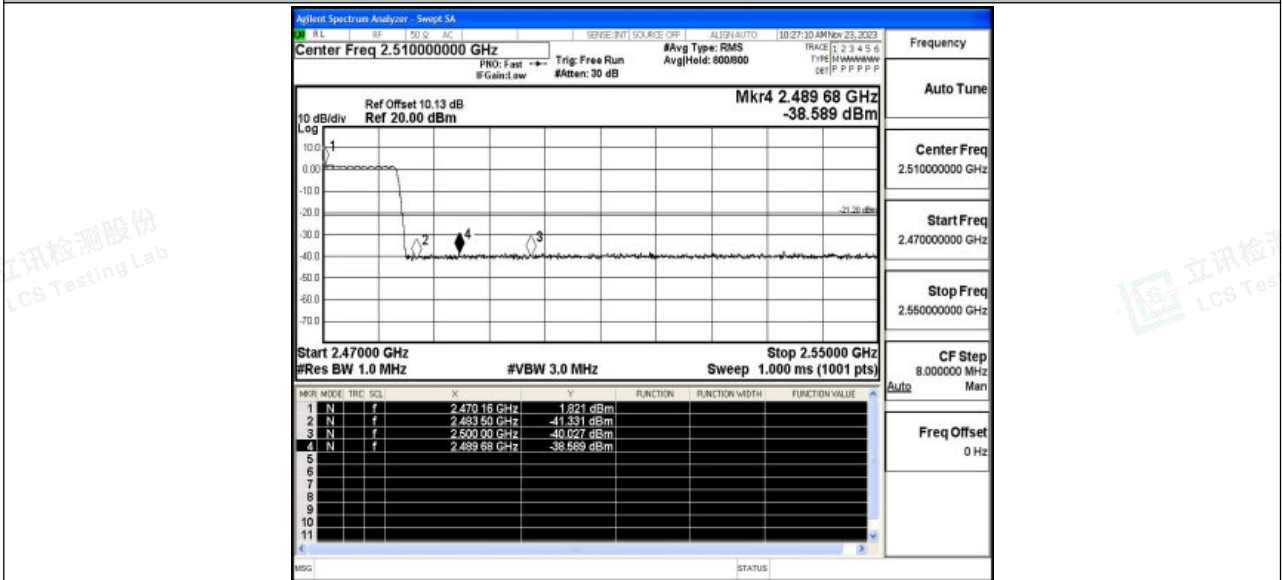


DH5_Ant1_Low_Hop_2402_Peak



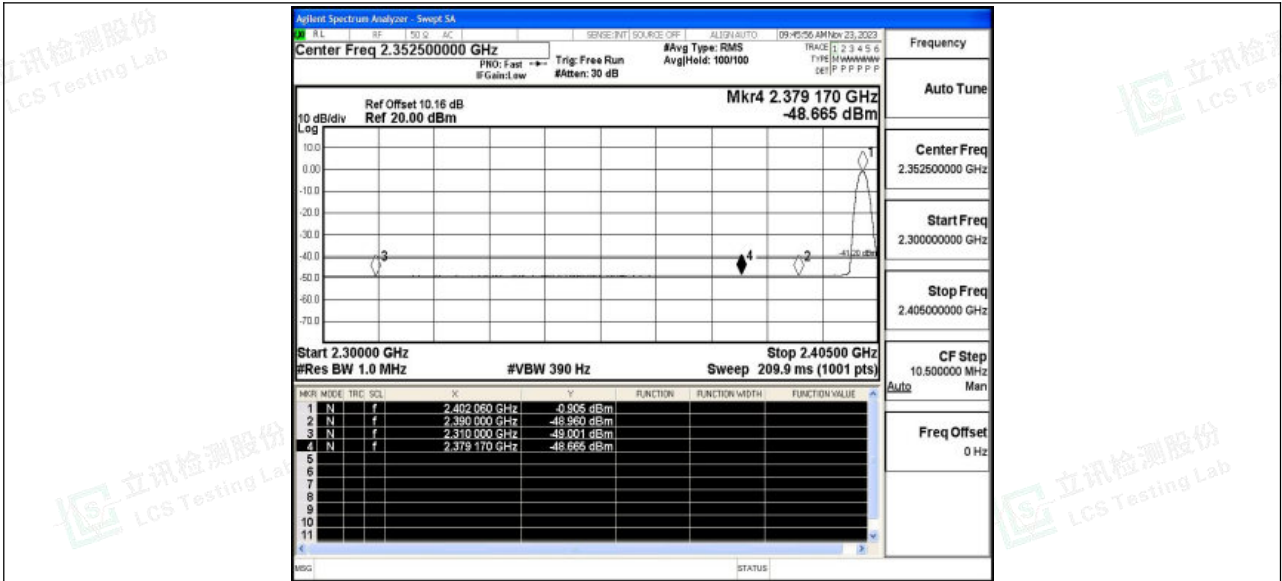


DH5_Ant1_High_Hop_2480_Peak

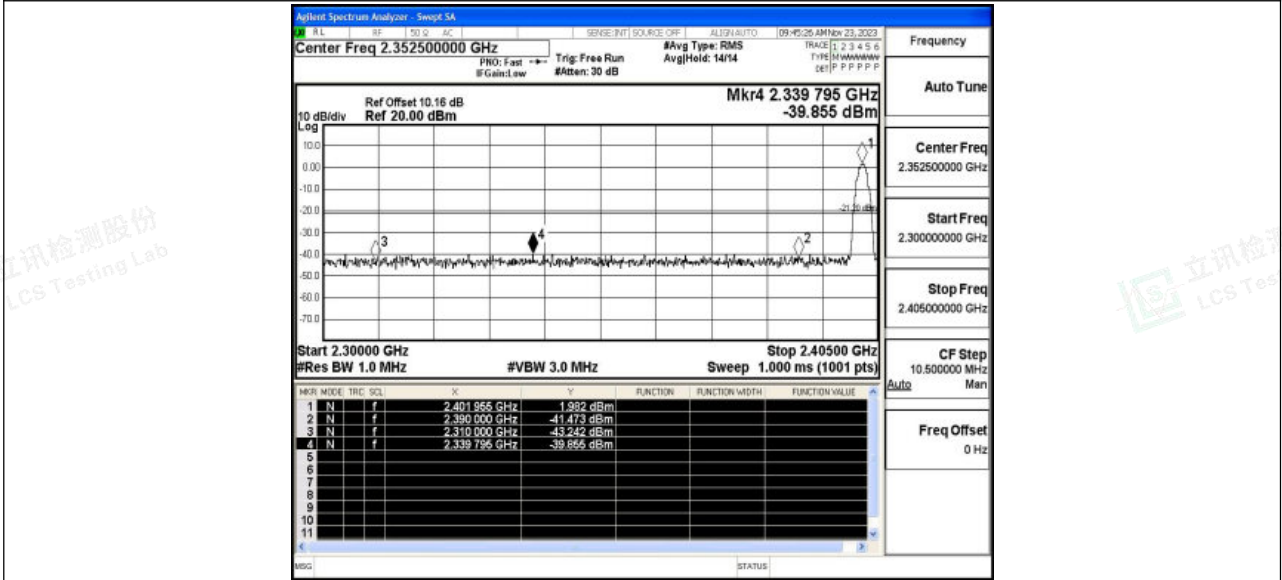


2DH5_Ant1_Low_2402_AV



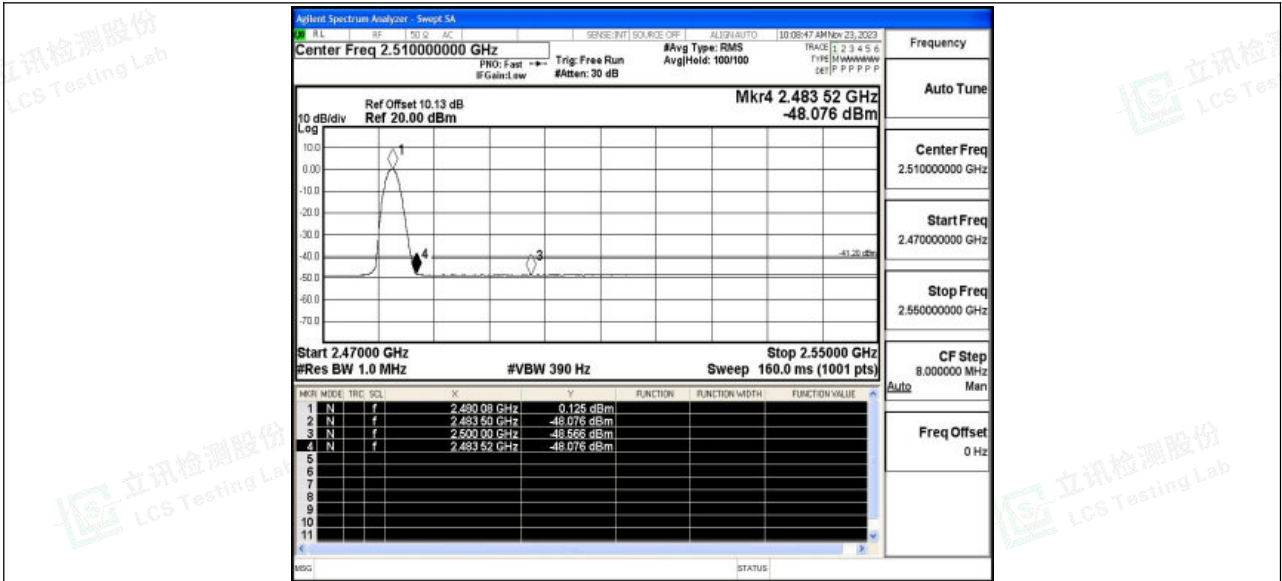


2DH5_Ant1_Low_2402_Peak

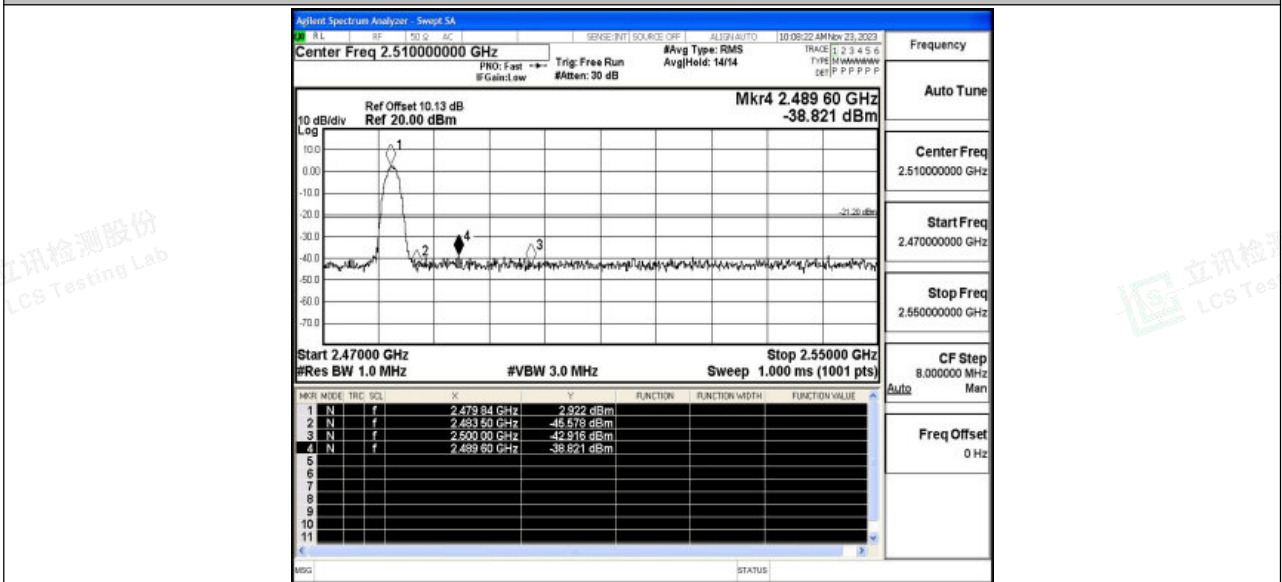


2DH5_Ant1_High_2480_AV



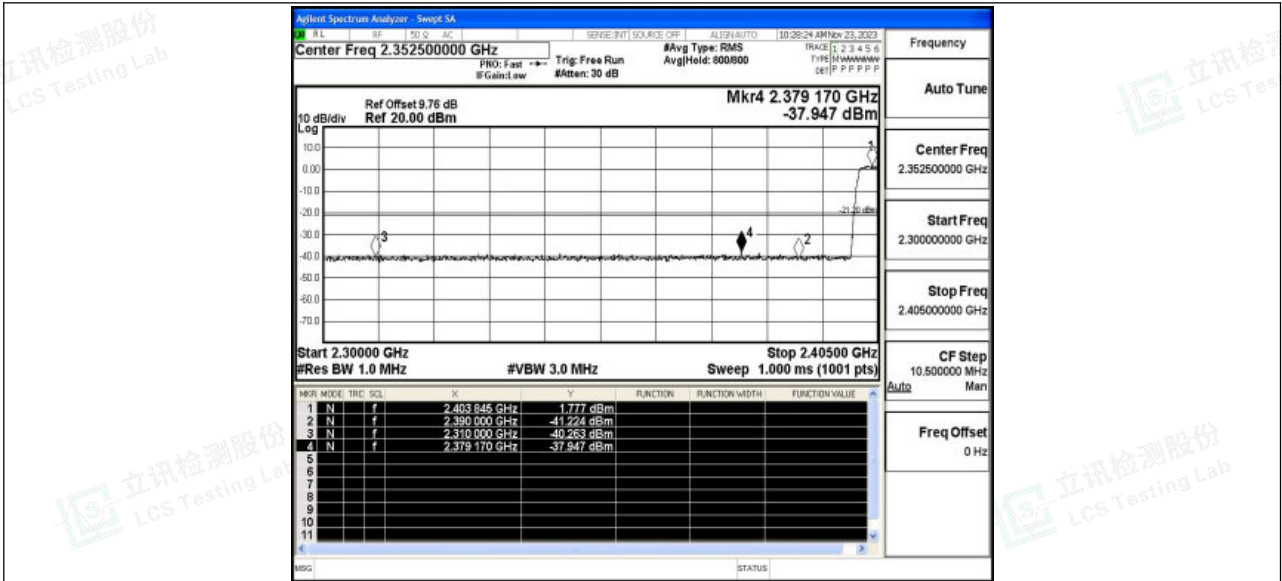


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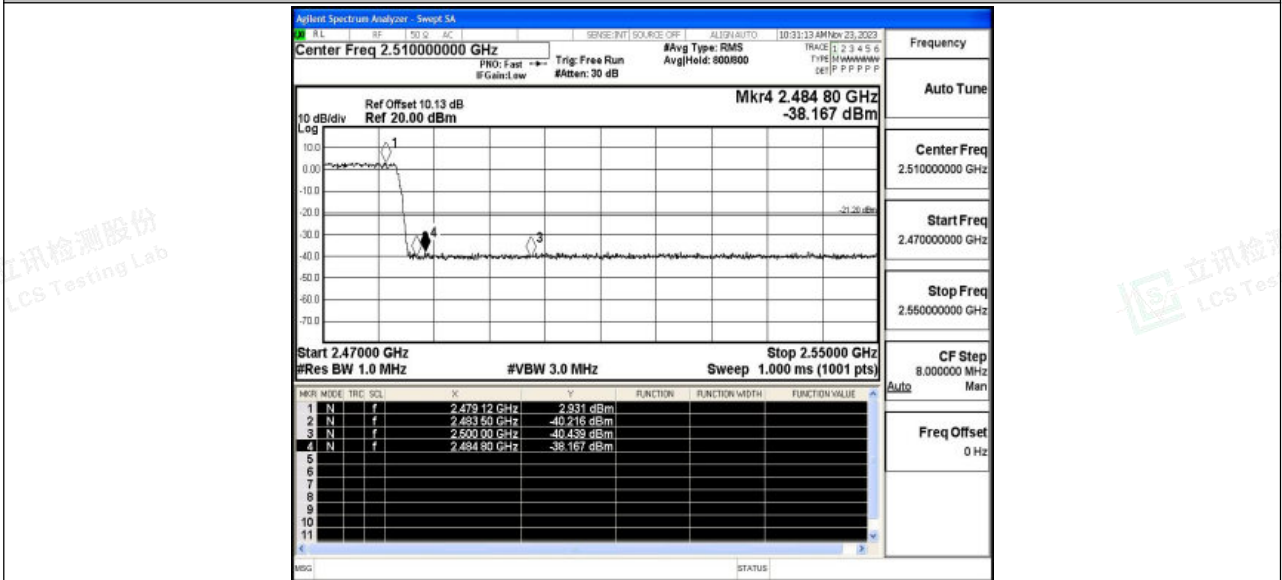


2DH5_Ant1_Low_Hop_2402_Peak



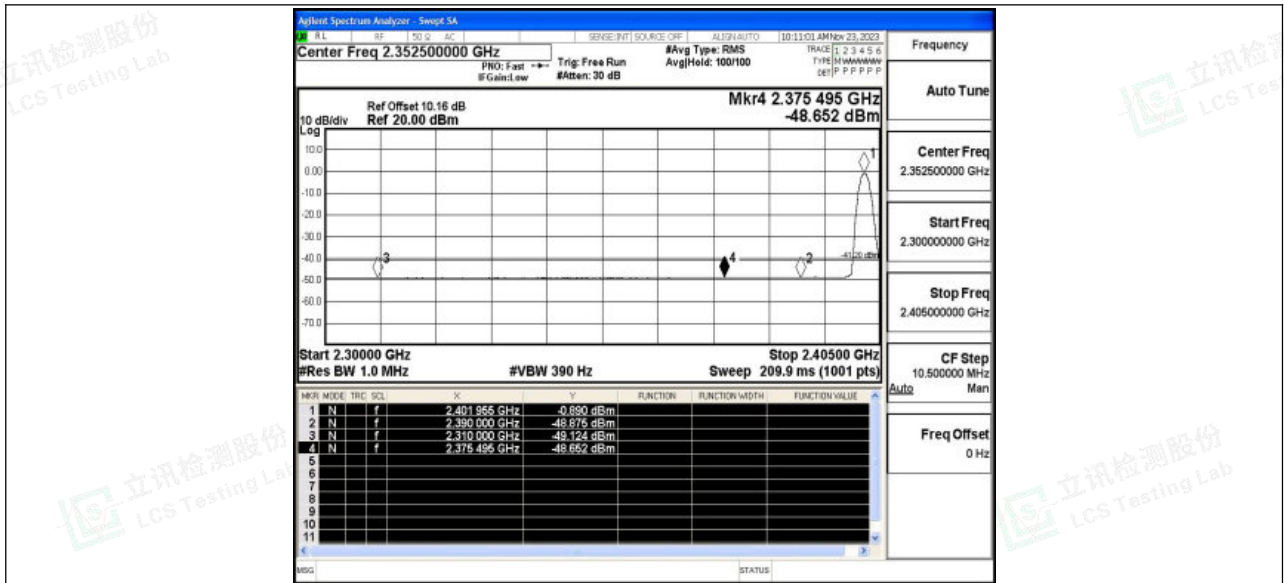


2DH5_Ant1_High_Hop_2480_Peak

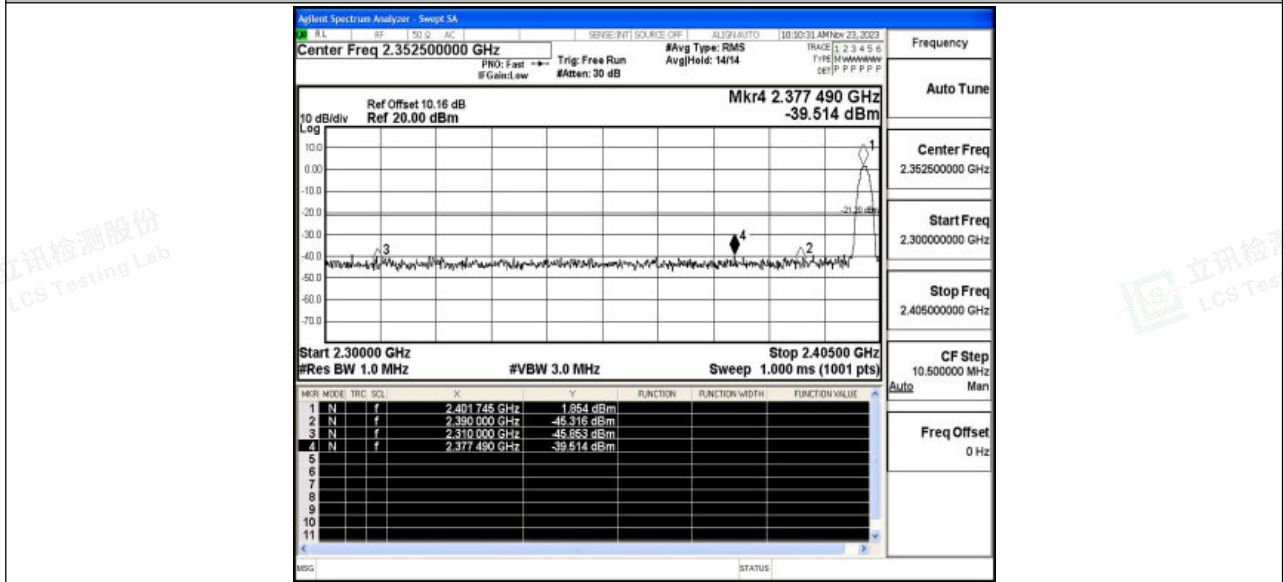


3DH5_Ant1_Low_2402_AV



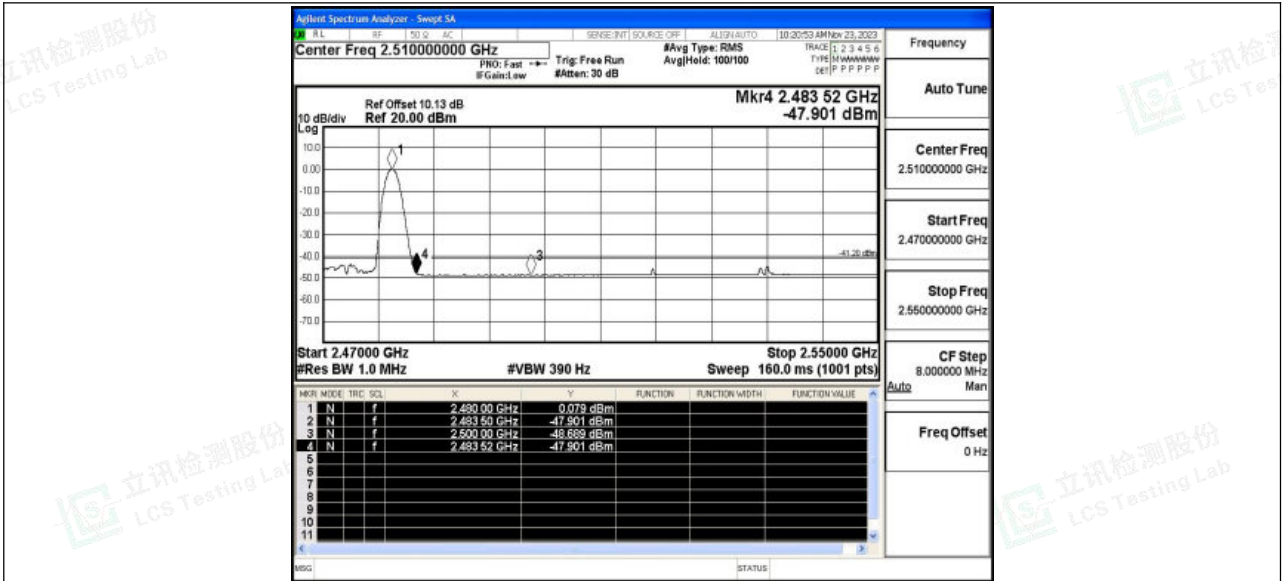


3DH5_Ant1_Low_2402_Peak

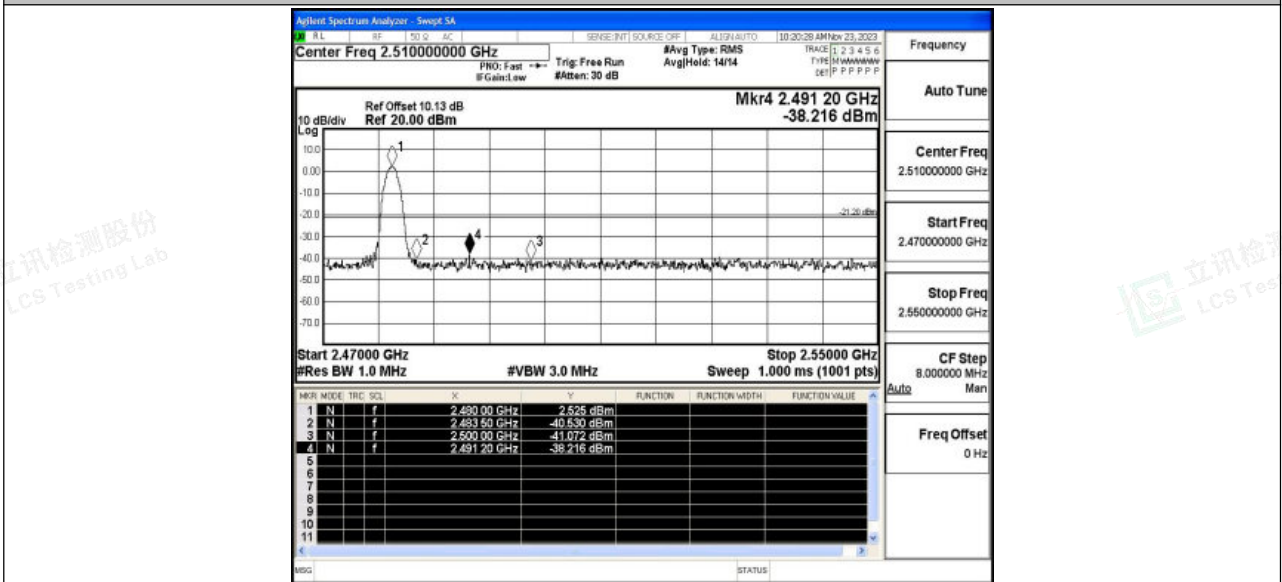


3DH5_Ant1_High_2480_AV



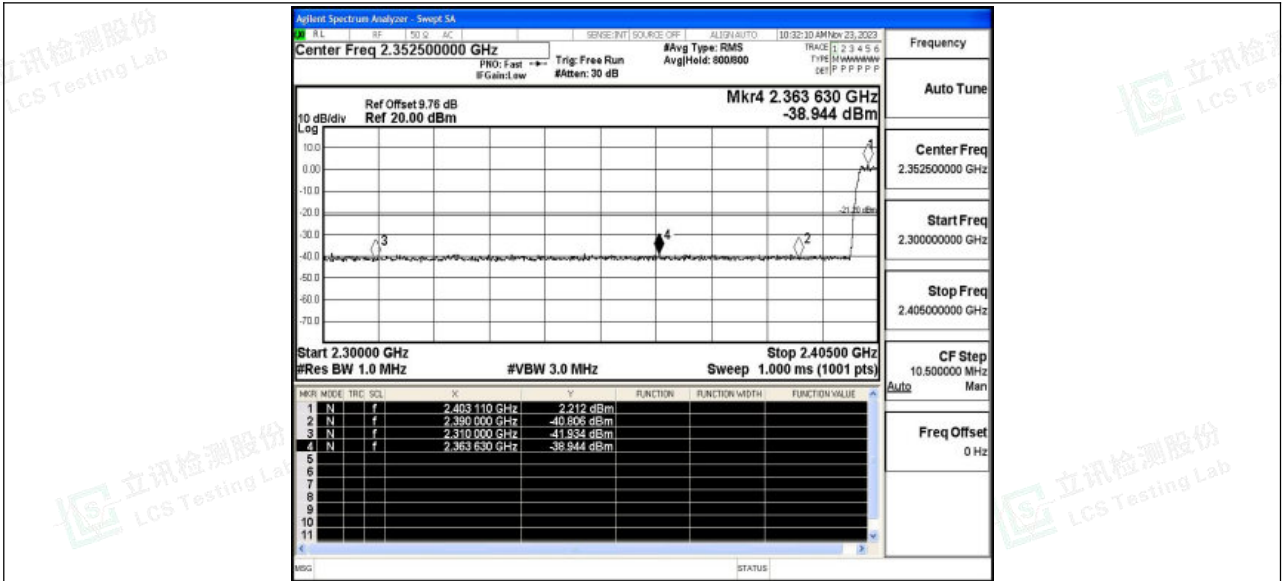


3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak





3DH5_Ant1_High_Hop_2480_Peak

