



## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: Lamp with Bluetooth speaker and charging base

Test Model: Ambience

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng





### A.1 20dB Emission Bandwidth

#### Test Result

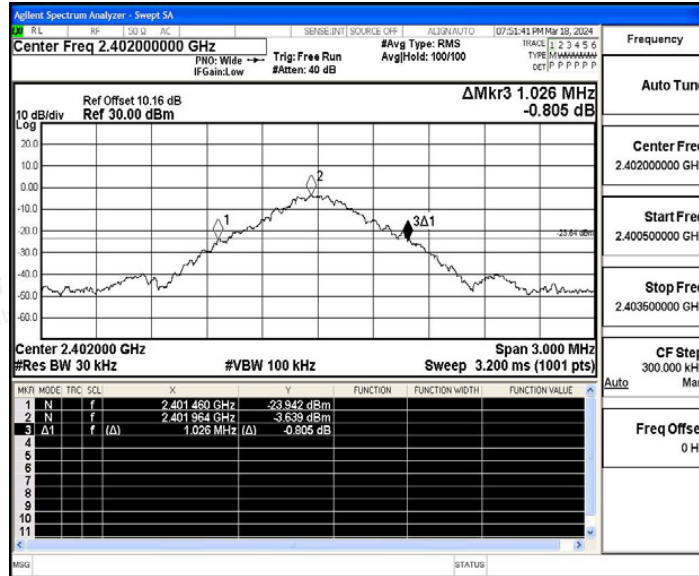
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.026	2401.460	2402.486	---	---
		2441	0.960	2440.523	2441.483	---	---
		2480	1.032	2479.457	2480.489	---	---
2DH5	Ant1	2402	1.314	2401.331	2402.645	---	---
		2441	1.284	2440.355	2441.639	---	---
		2480	1.284	2479.352	2480.636	---	---
3DH5	Ant1	2402	1.272	2401.340	2402.612	---	---
		2441	1.305	2440.337	2441.642	---	---
		2480	1.299	2479.334	2480.633	---	---



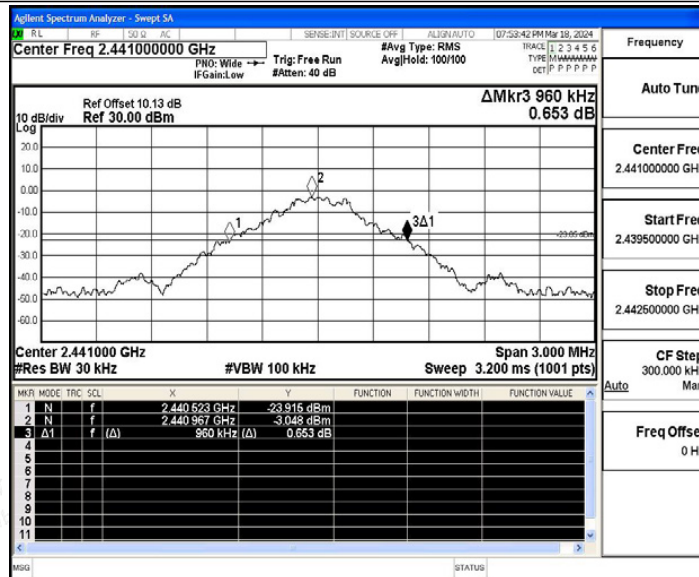


Test Graphs

DH5\_Ant1\_2402

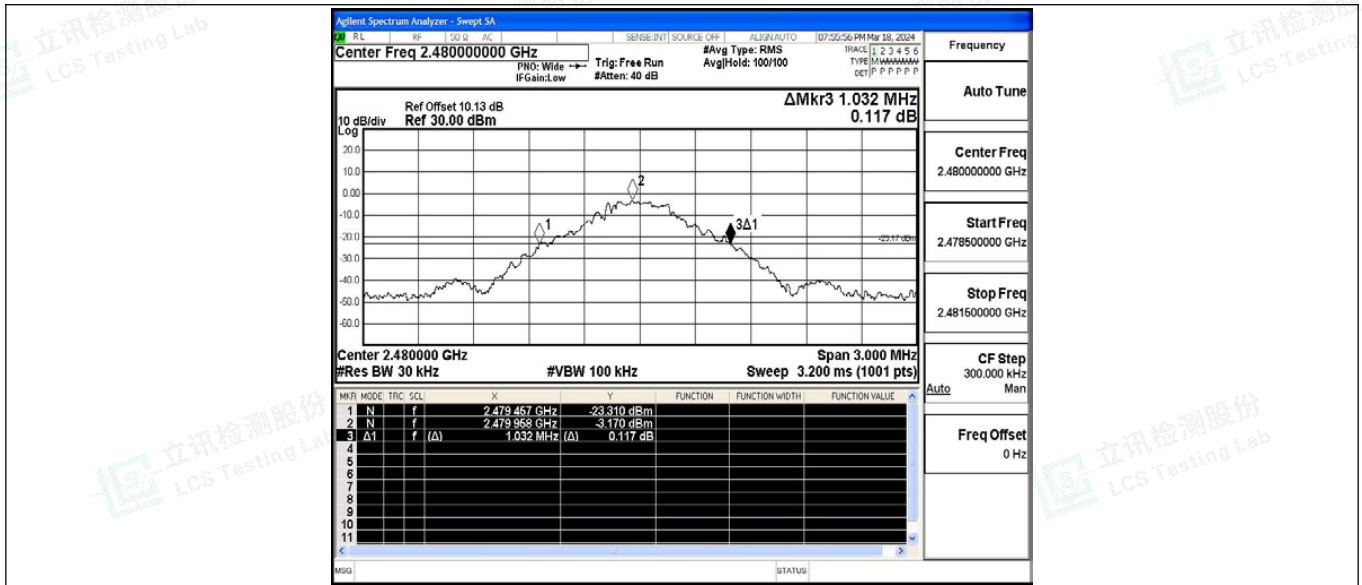


DH5\_Ant1\_2441

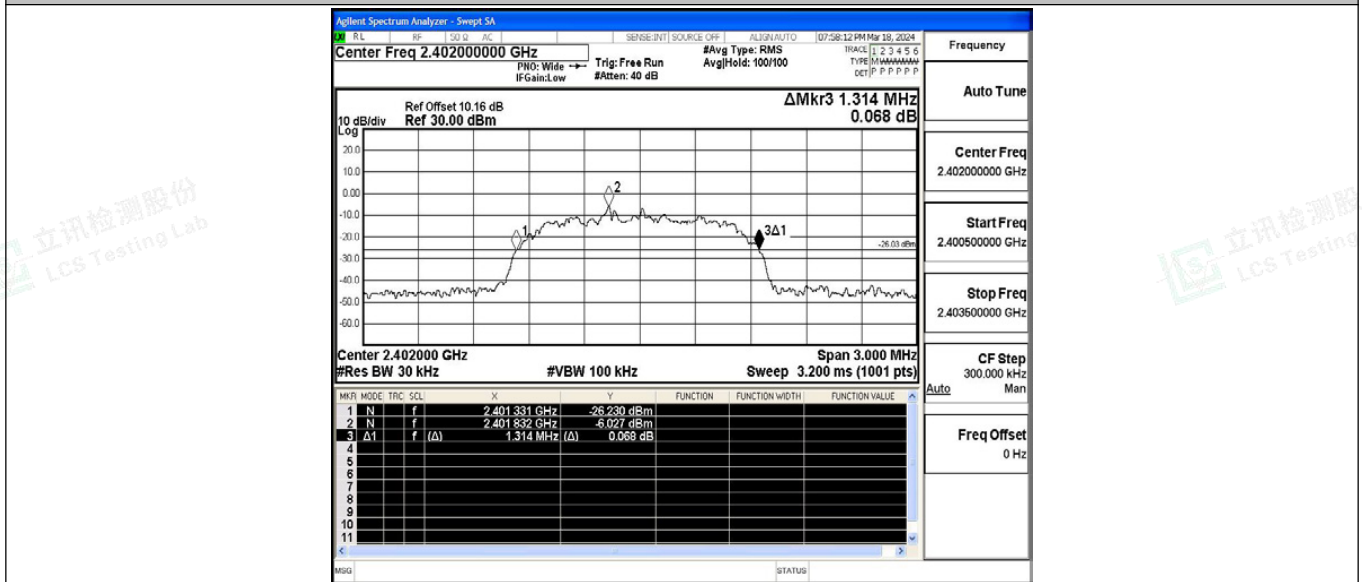


DH5\_Ant1\_2480



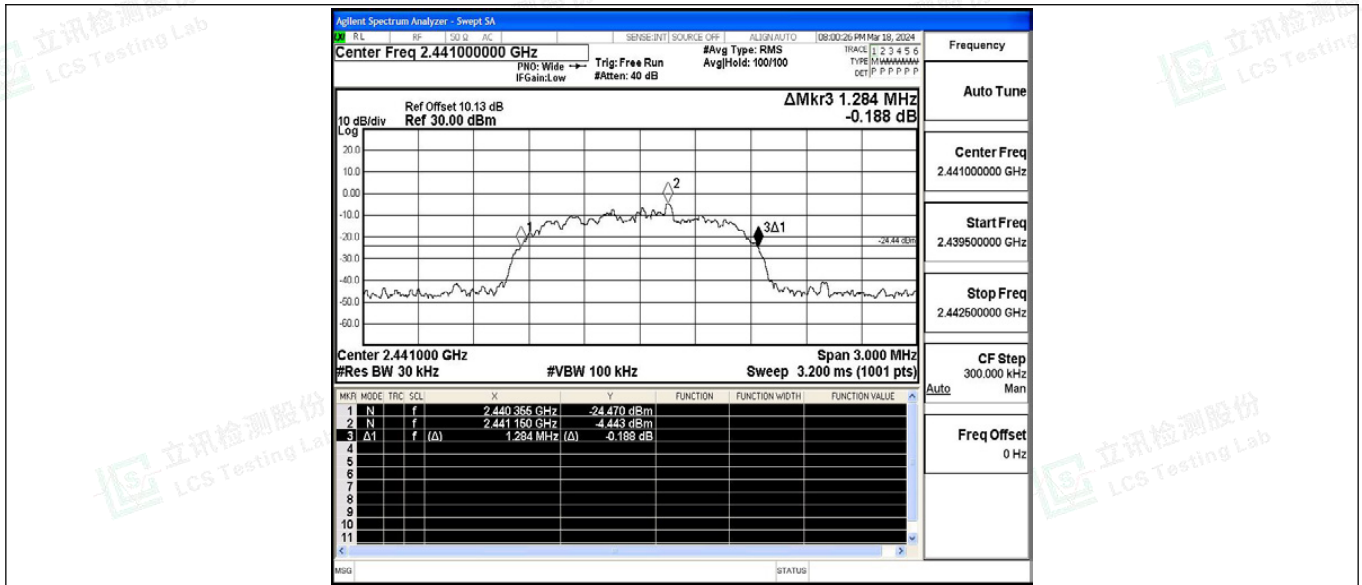


2DH5\_Ant1\_2402

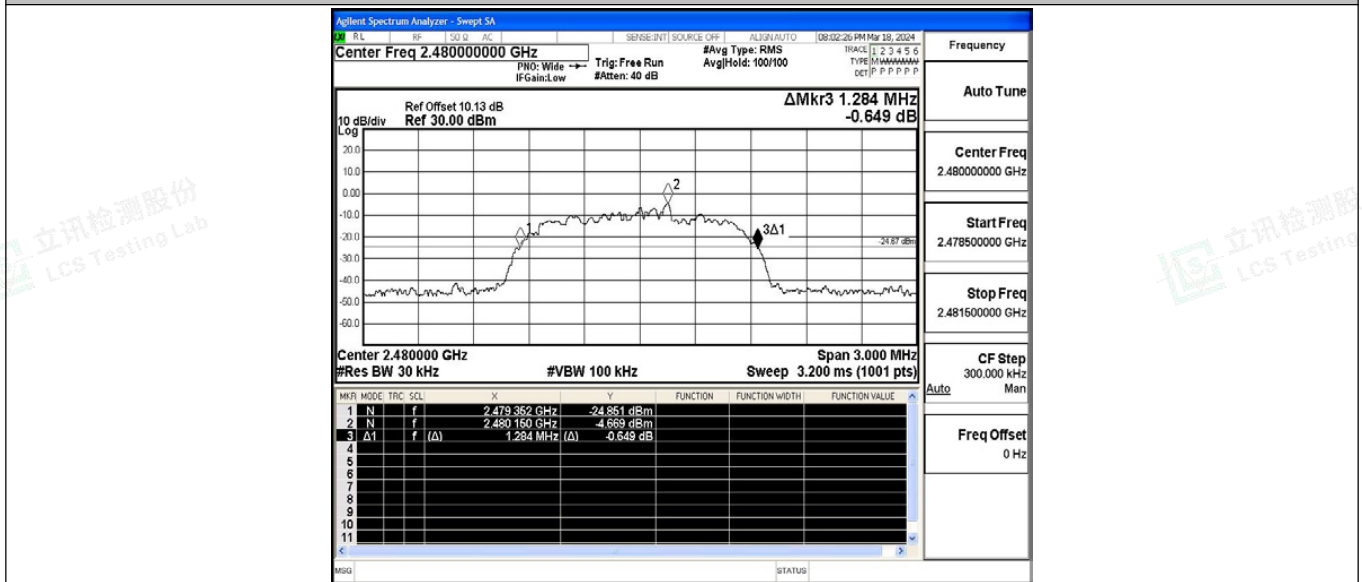


2DH5\_Ant1\_2441



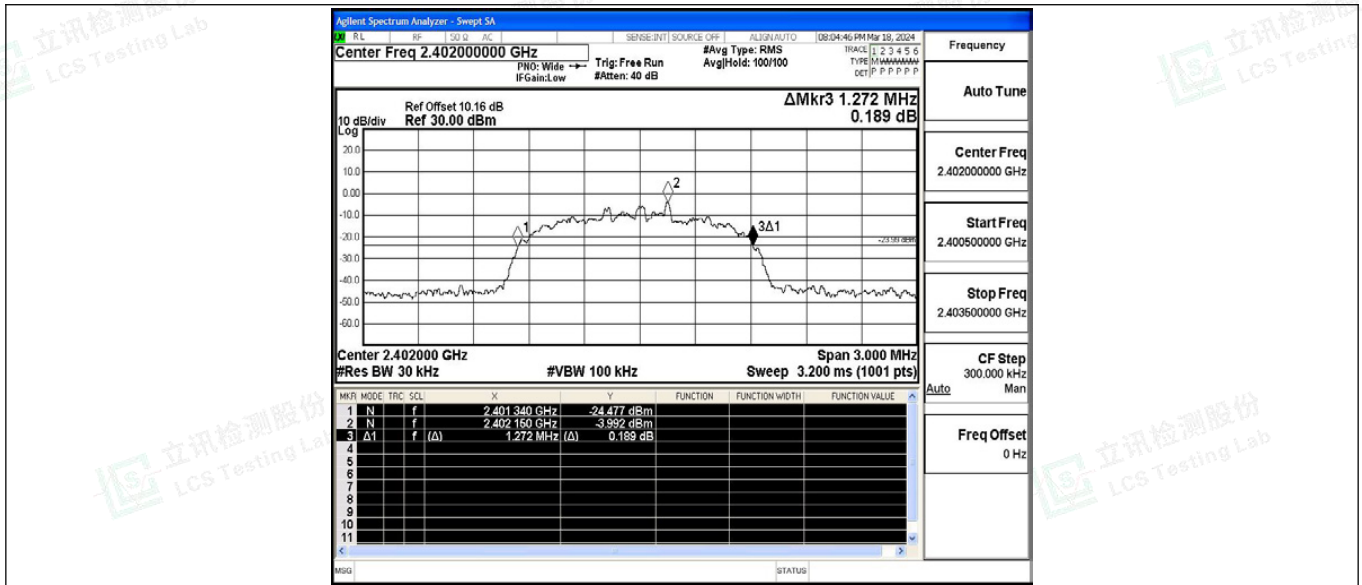


2DH5\_Ant1\_2480

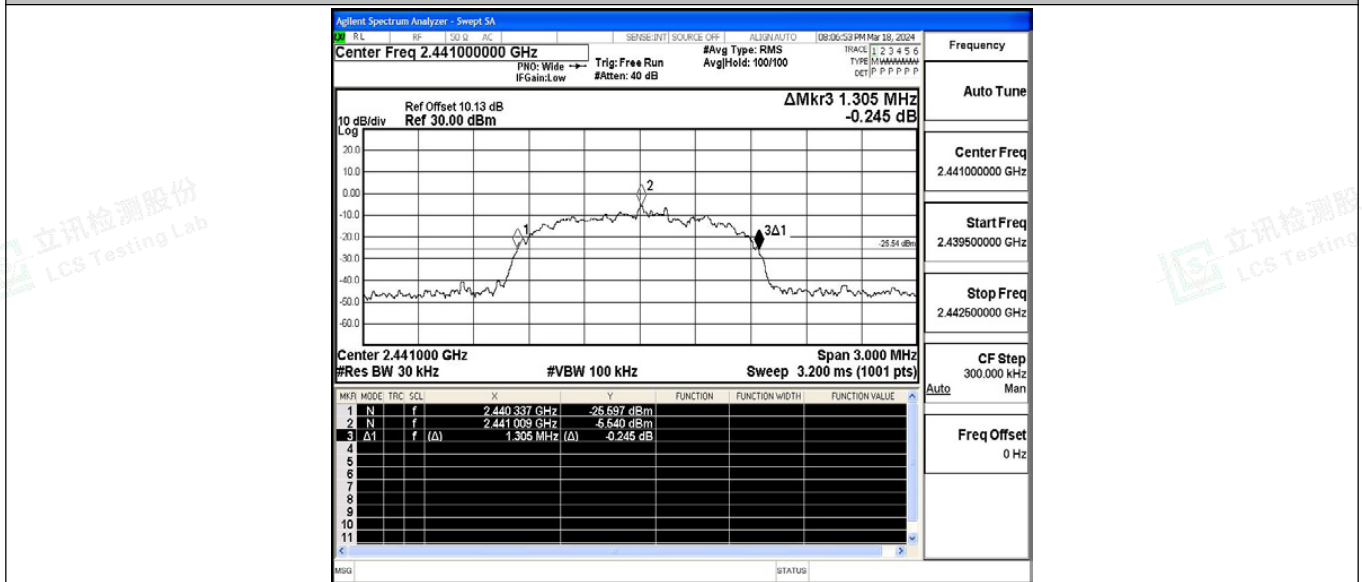


3DH5\_Ant1\_2402



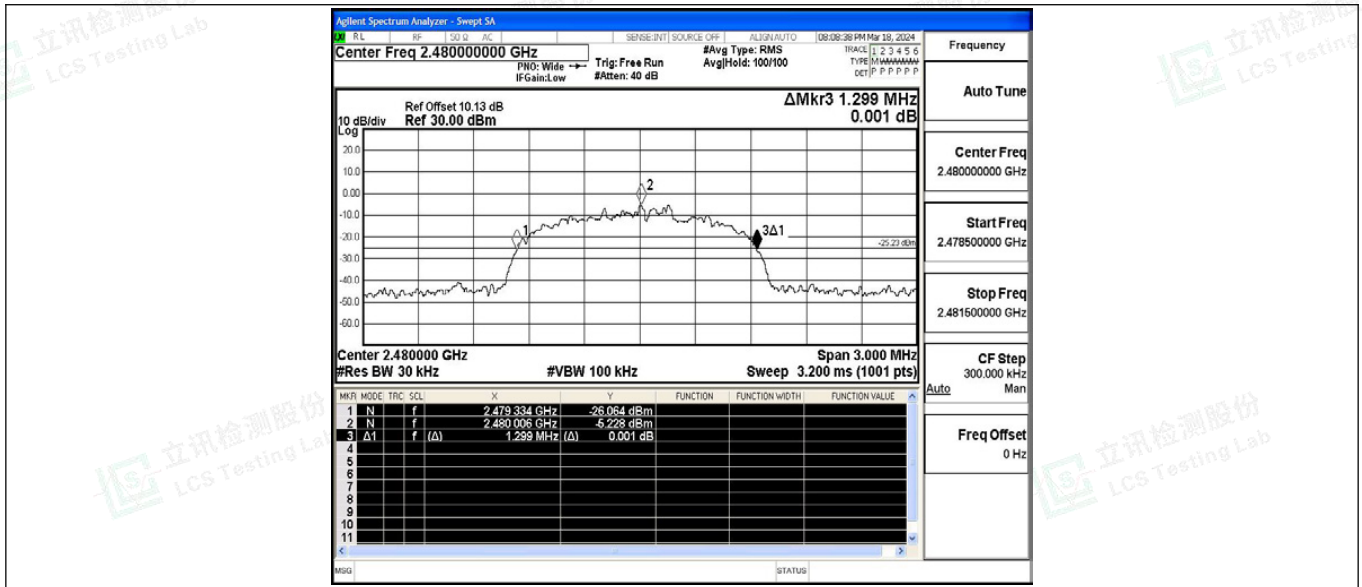


3DH5\_Ant1\_2441



3DH5\_Ant1\_2480







## A.2 Maximum Peak conducted output power

### Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.43	≤20.97	PASS
		2441	0.19	≤20.97	PASS
		2480	<b>0.23</b>	≤20.97	PASS
2DH5	Ant1	2402	-0.49	≤20.97	PASS
		2441	-0.31	≤20.97	PASS
		2480	-0.10	≤20.97	PASS
3DH5	Ant1	2402	-0.49	≤20.97	PASS
		2441	-0.35	≤20.97	PASS
		2480	-0.07	≤20.97	PASS

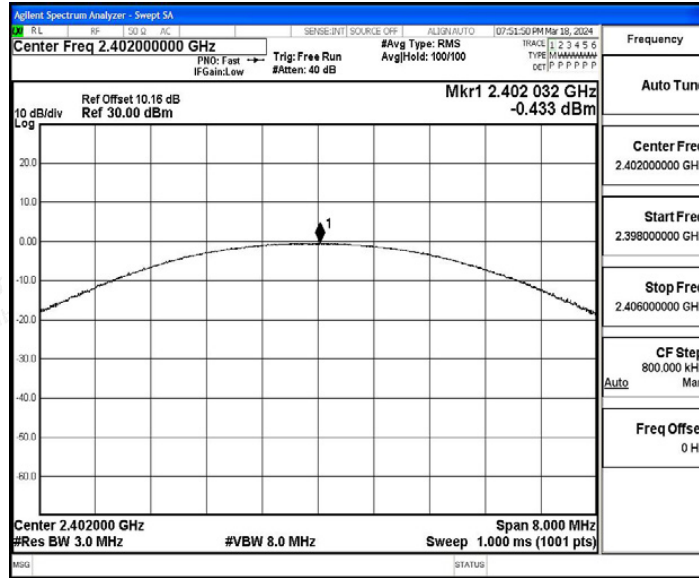




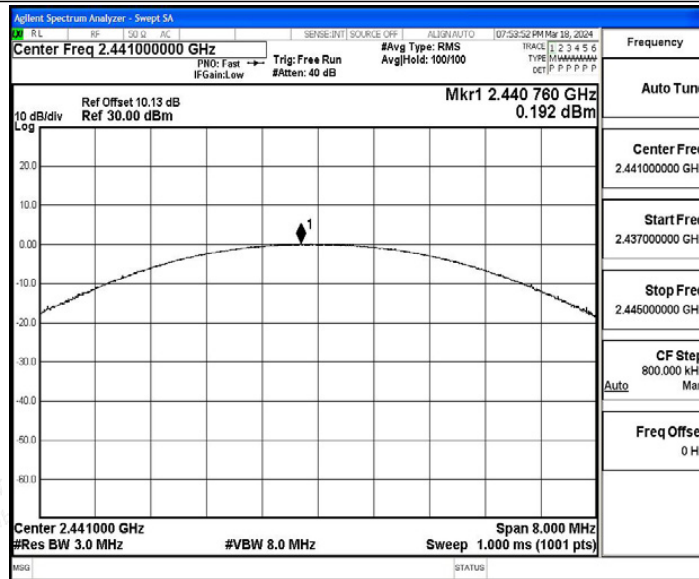


### Test Graphs

DH5\_Ant1\_2402

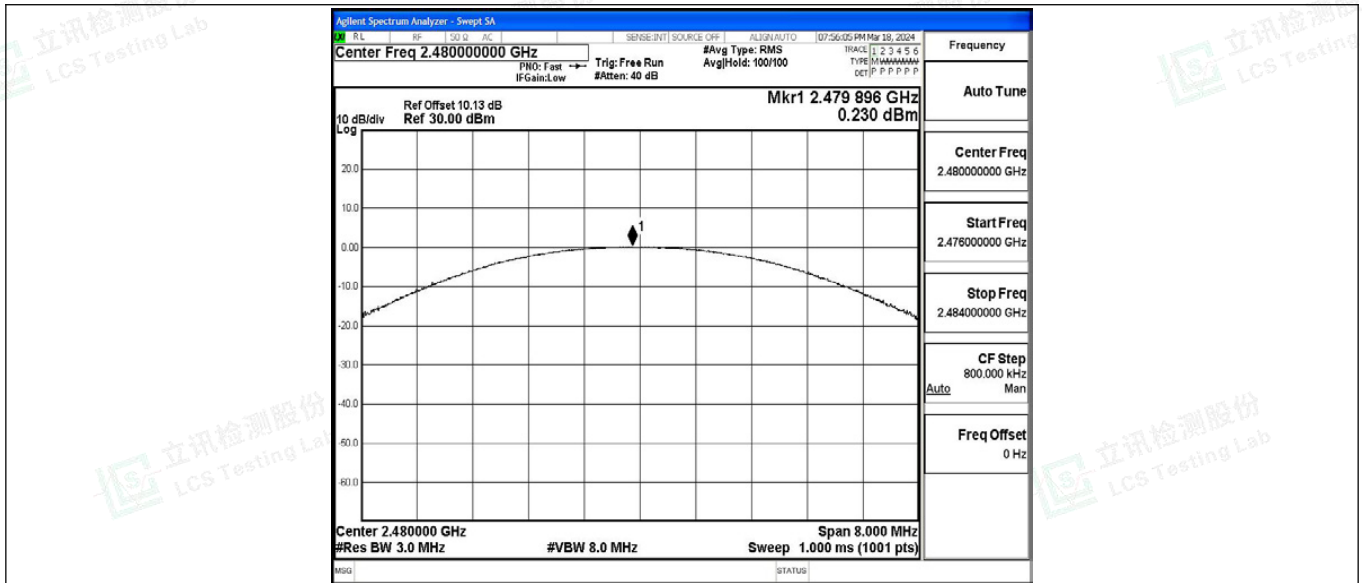


DH5\_Ant1\_2441

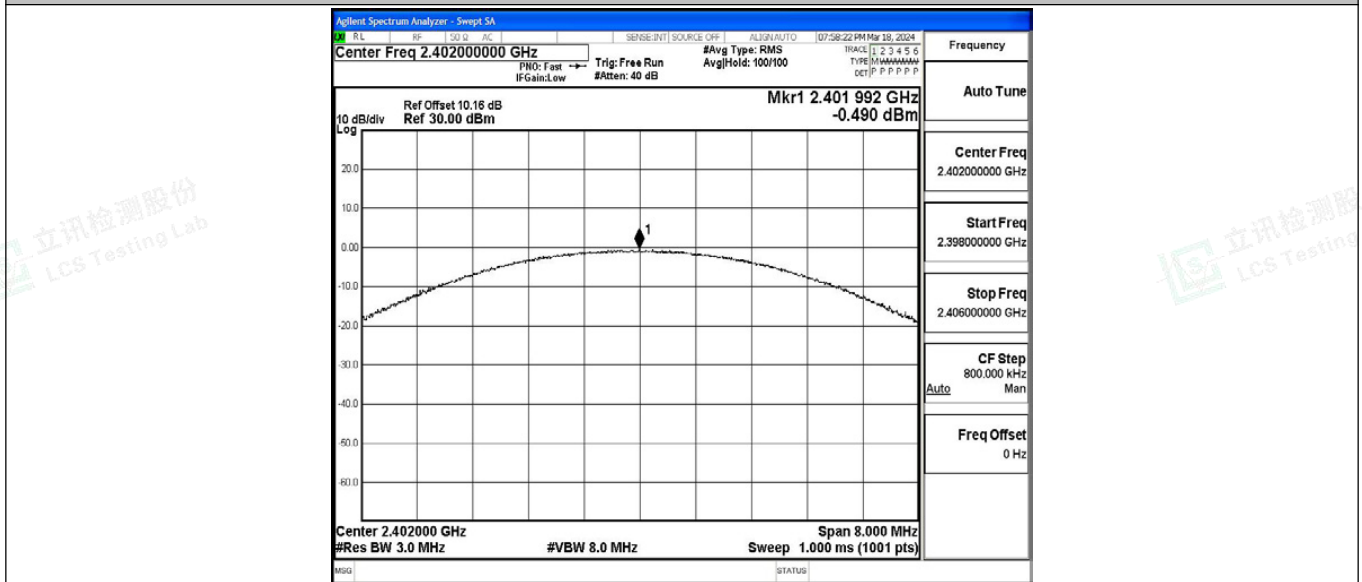


DH5\_Ant1\_2480



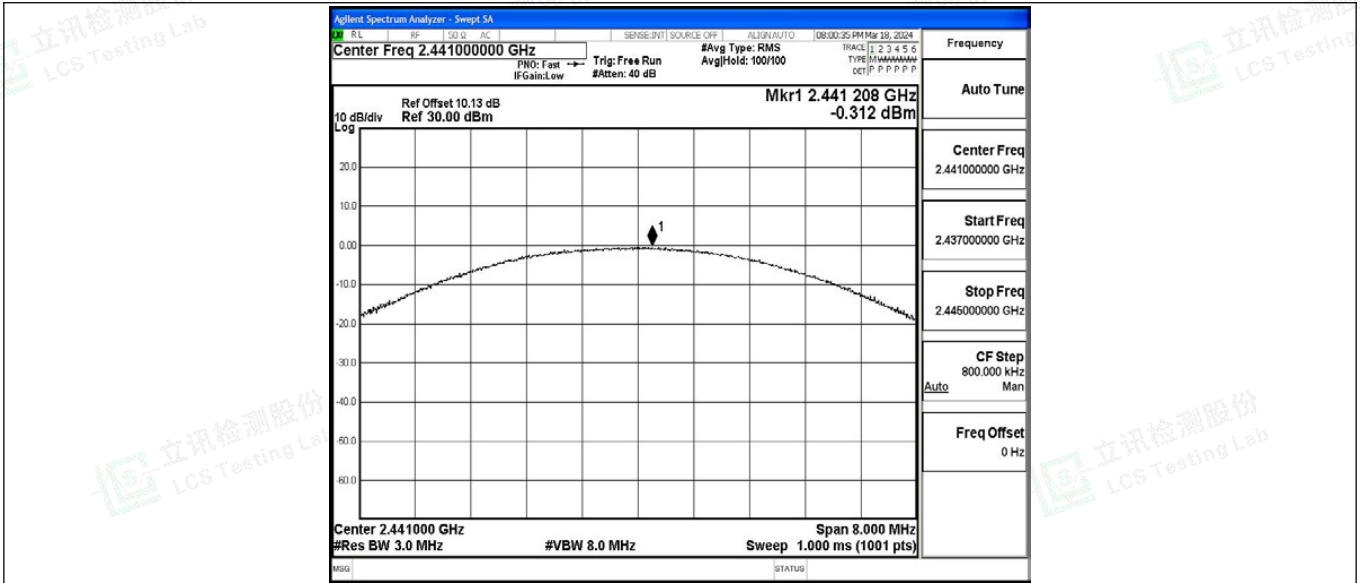


2DH5\_Ant1\_2402

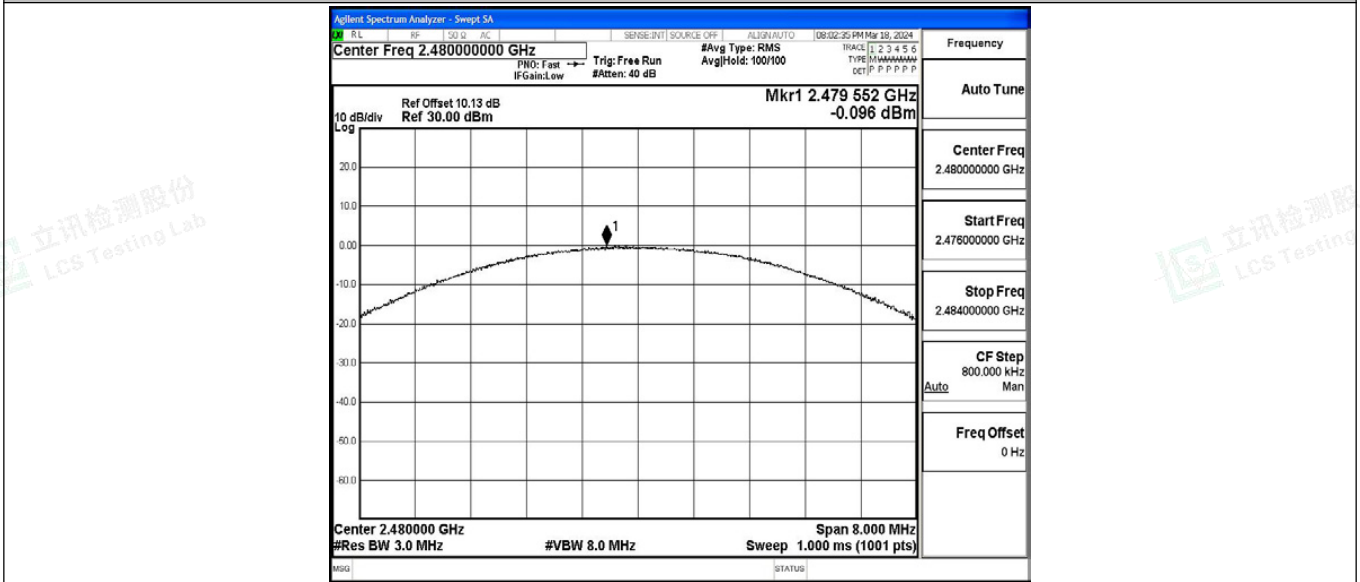


2DH5\_Ant1\_2441



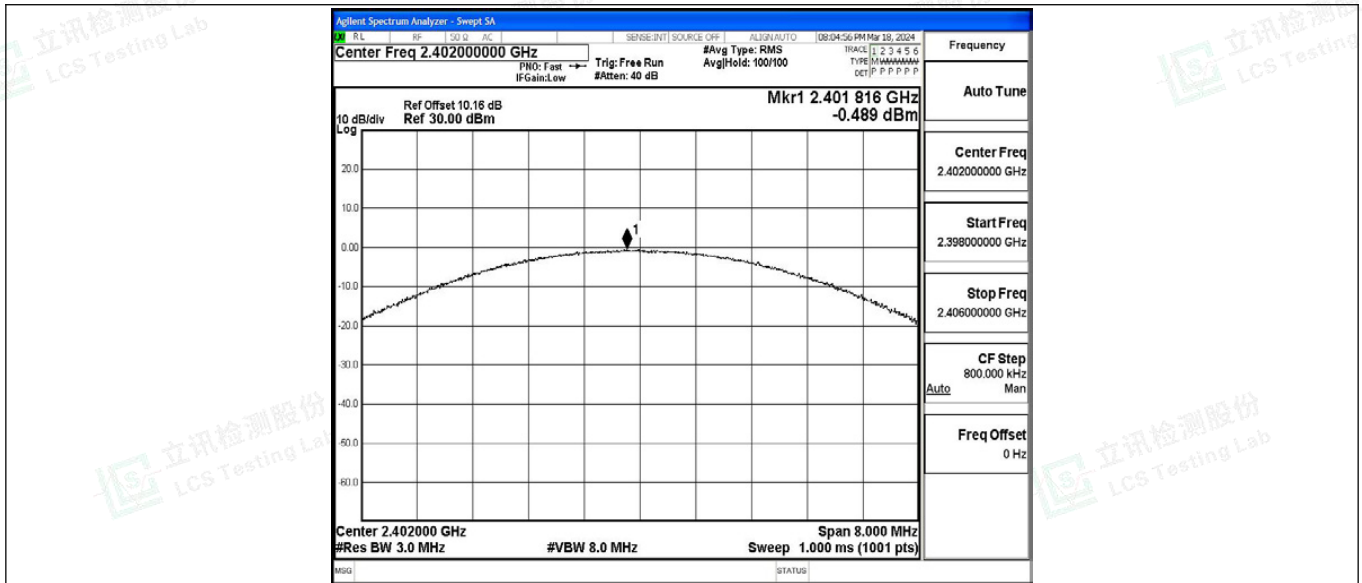


2DH5\_Ant1\_2480

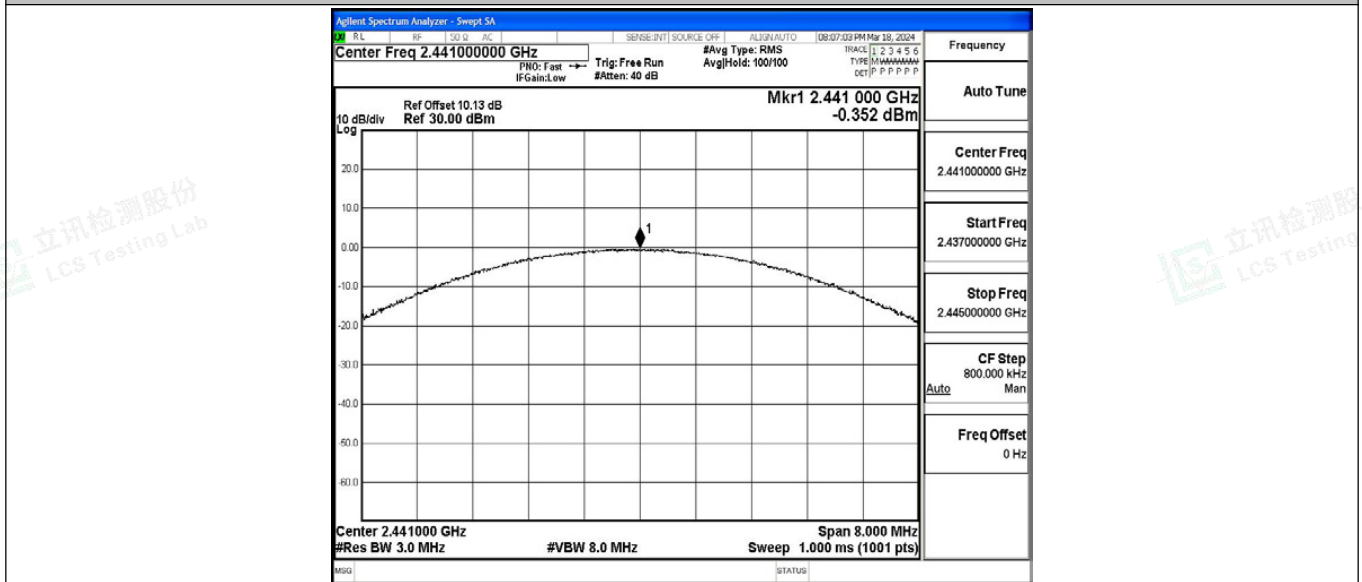


3DH5\_Ant1\_2402



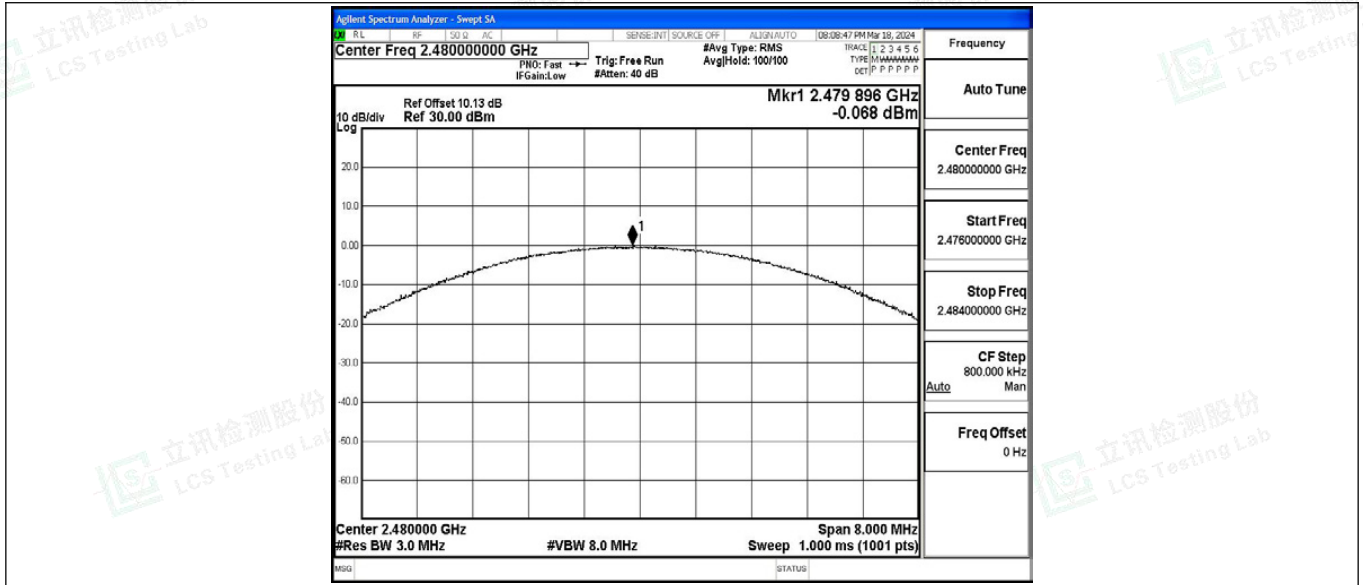


3DH5\_Ant1\_2441



3DH5\_Ant1\_2480







### A.3 Carrier frequency separation

#### Test Result

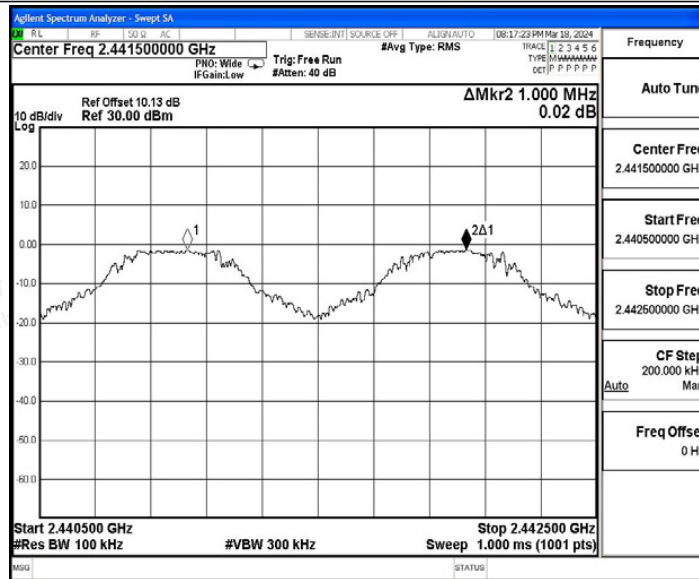
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	≥0.688	PASS
2DH5	Ant1	Hop	1.15	≥0.876	PASS
3DH5	Ant1	Hop	1.048	≥0.870	PASS



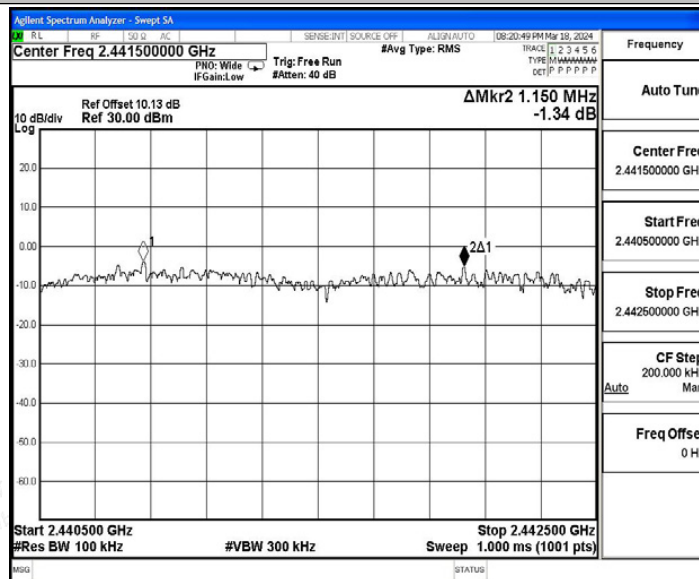


### Test Graphs

DH5\_Ant1\_Hop

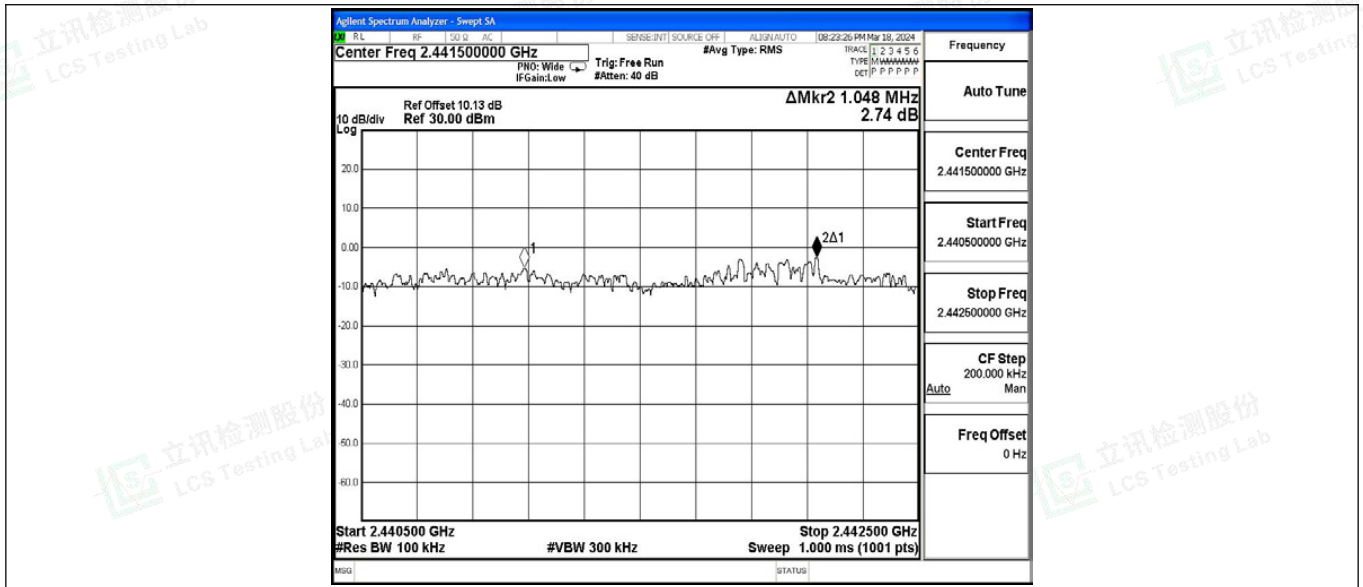


2DH5\_Ant1\_Hop



3DH5\_Ant1\_Hop









### A.4 Time of occupancy

#### Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.887	106.67	0.308	≤0.4	PASS

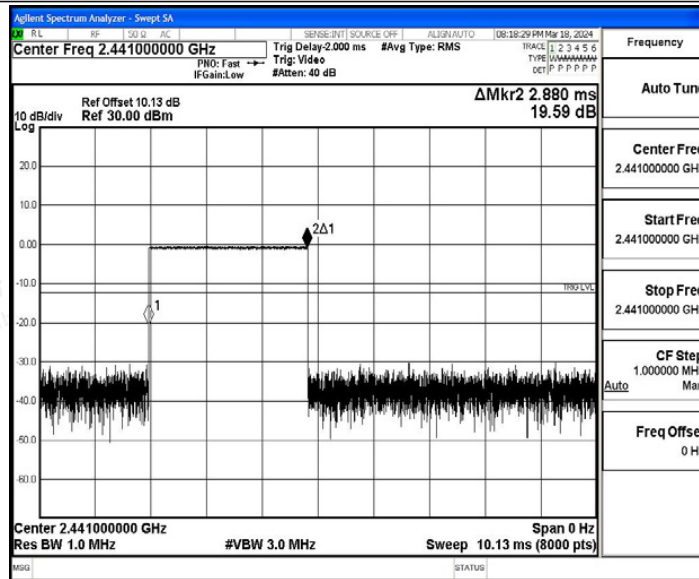


Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

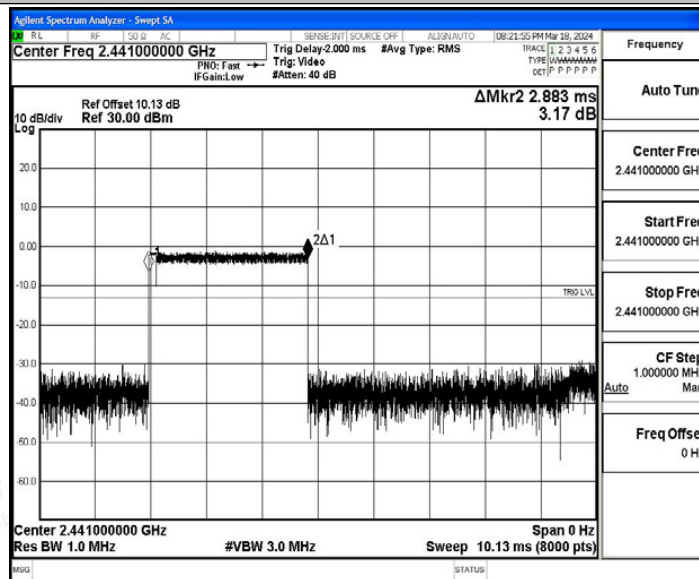


### Test Graphs

#### DH5\_Ant1\_Hop

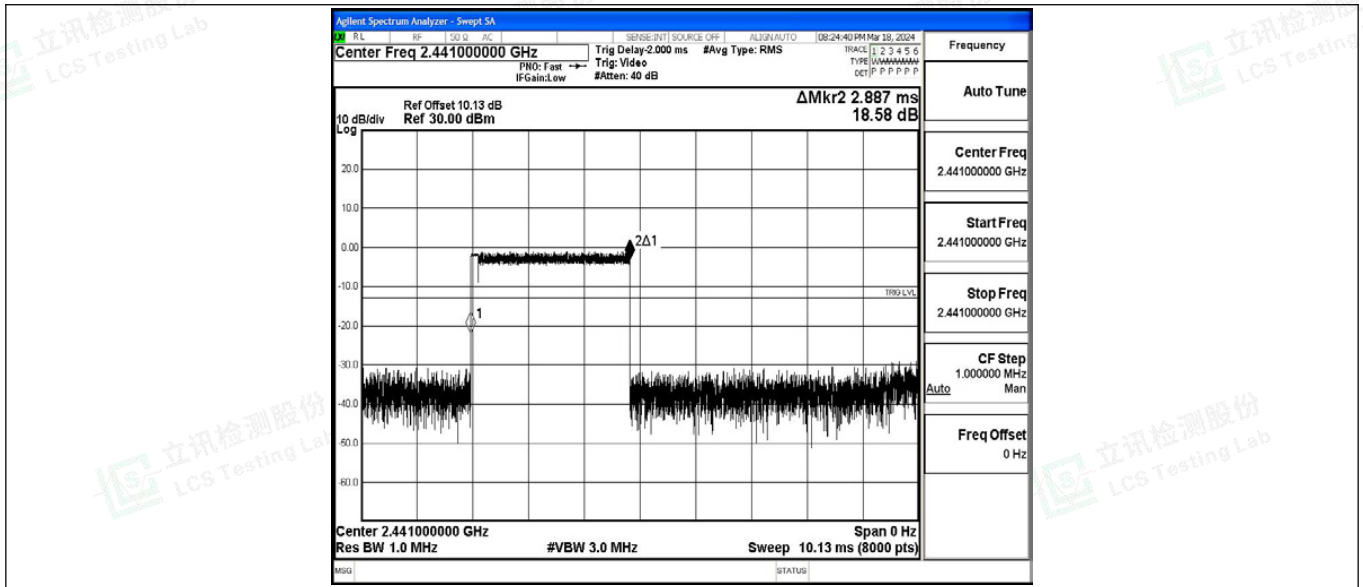


#### 2DH5\_Ant1\_Hop



#### 3DH5\_Ant1\_Hop







## A.5 Number of hopping channels

### Test Result

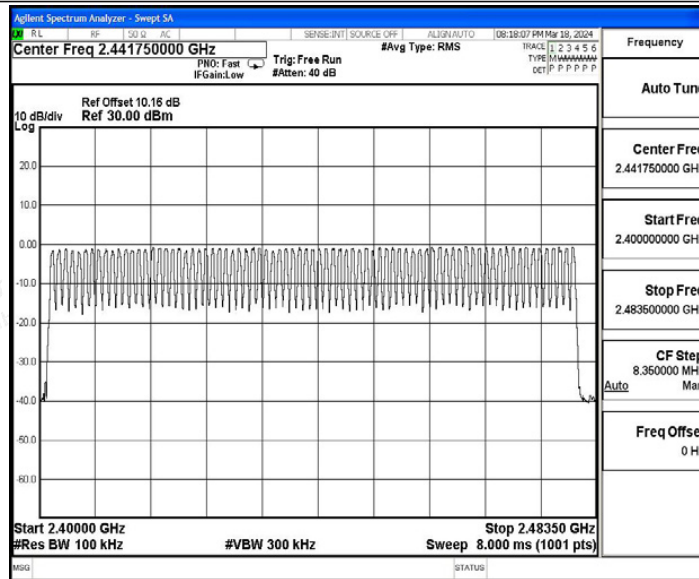
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



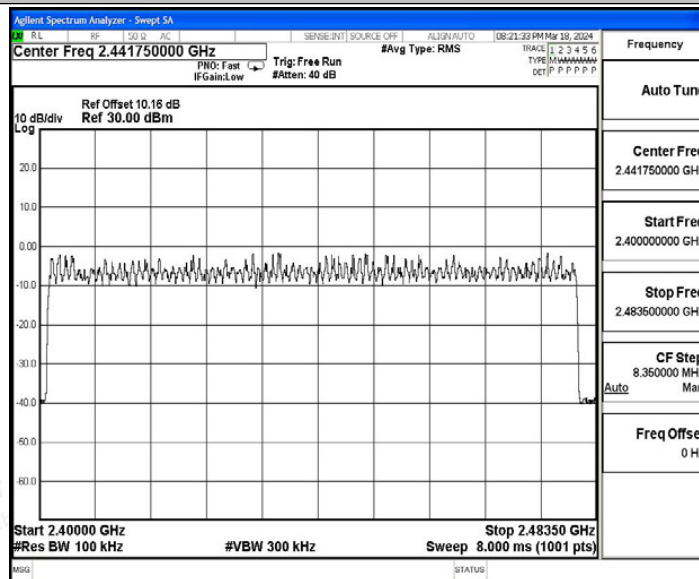


### Test Graphs

#### DH5\_Ant1\_Hop

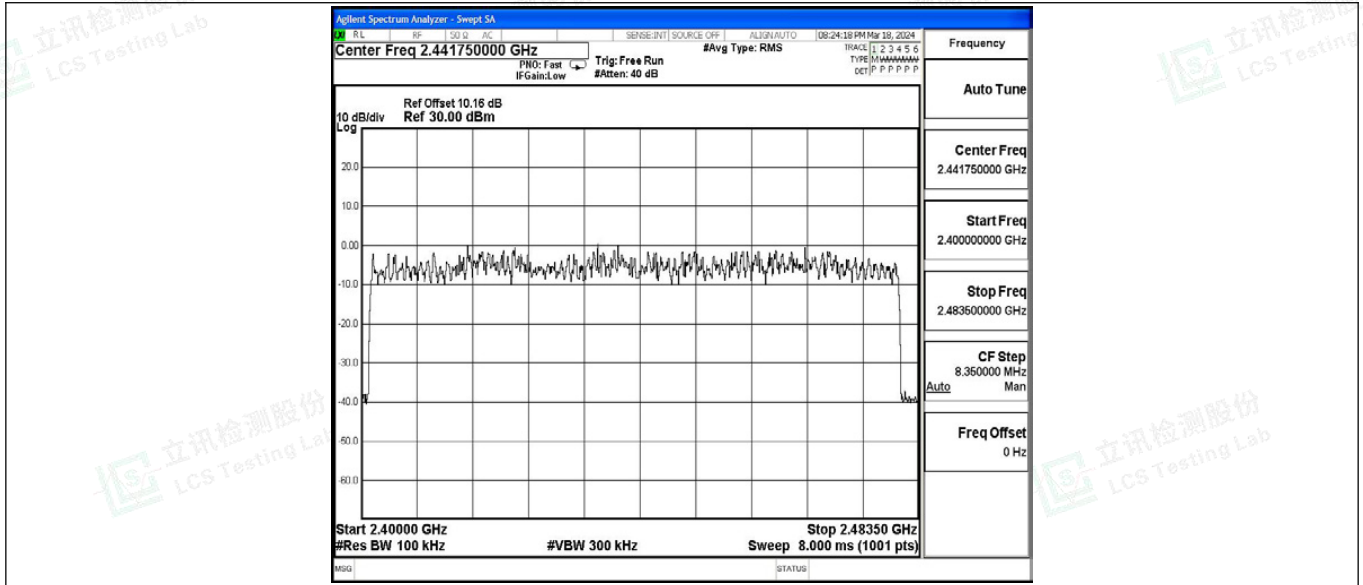


#### 2DH5\_Ant1\_Hop



#### 3DH5\_Ant1\_Hop







### A.6 Band edge measurements

#### Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.75	-48.15	≤-21.75	PASS
		High	2480	-0.98	-47.94	≤-20.98	PASS
		Low	Hop_2402	-1.48	-48.31	≤-21.48	PASS
		High	Hop_2480	-0.75	-46.44	≤-20.75	PASS
2DH5	Ant1	Low	2402	-2.16	-48.97	≤-22.16	PASS
		High	2480	-2.17	-48.48	≤-22.17	PASS
		Low	Hop_2402	-4.43	-48.21	≤-24.43	PASS
		High	Hop_2480	-1.59	-47.1	≤-21.59	PASS
3DH5	Ant1	Low	2402	-2.89	-48.96	≤-22.89	PASS
		High	2480	-1.52	-48.14	≤-21.52	PASS
		Low	Hop_2402	-5.93	-48.29	≤-25.93	PASS
		High	Hop_2480	-1.69	-47.64	≤-21.69	PASS

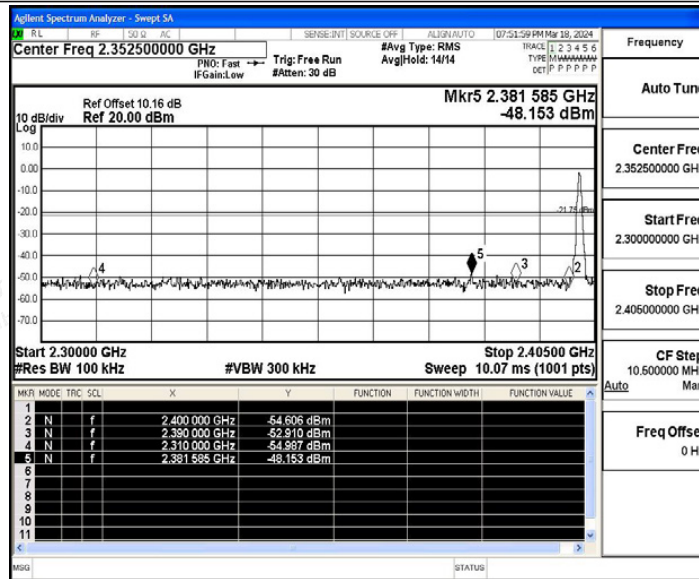


Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

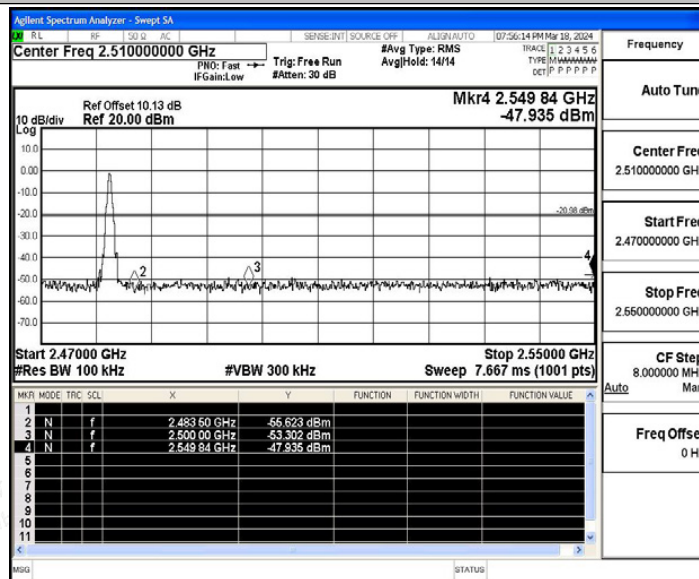


### Test Graphs

DH5\_Ant1\_Low\_2402



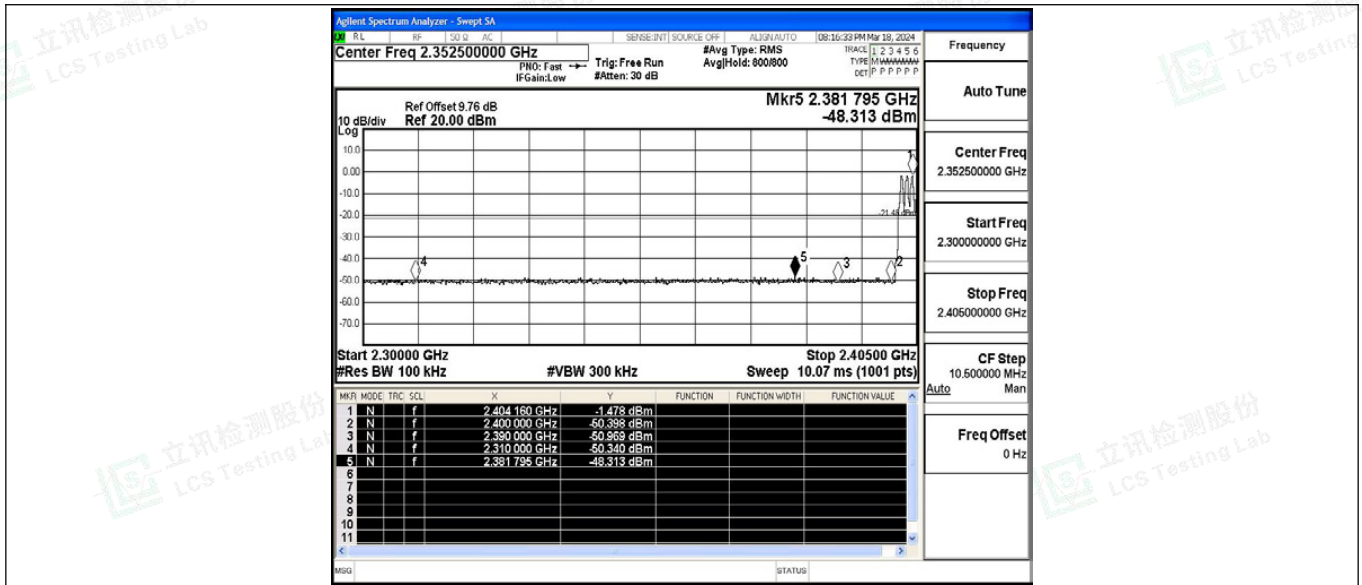
DH5\_Ant1\_High\_2480



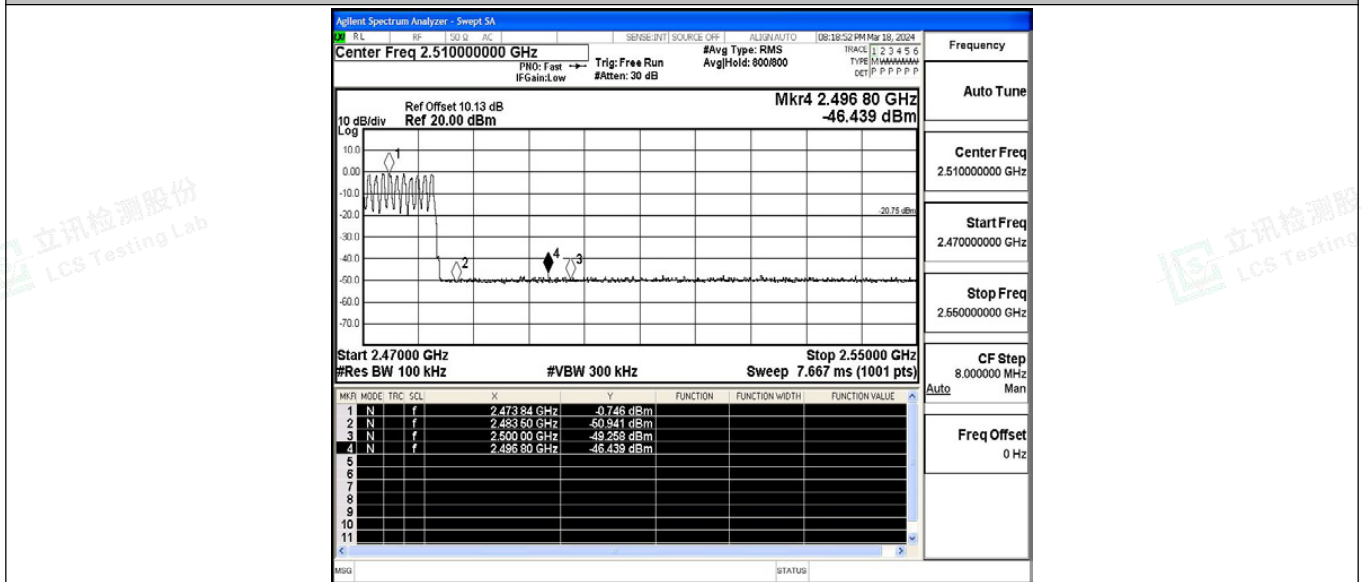
DH5\_Ant1\_Low\_Hop\_2402





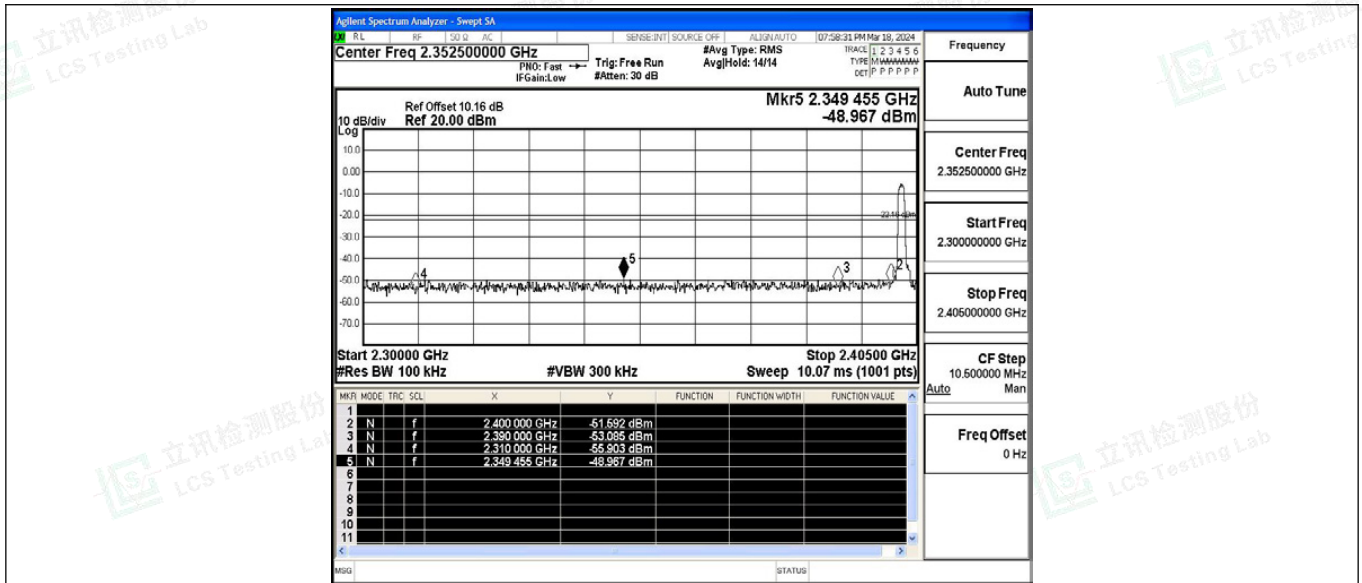


DH5\_Ant1\_High\_Hop\_2480

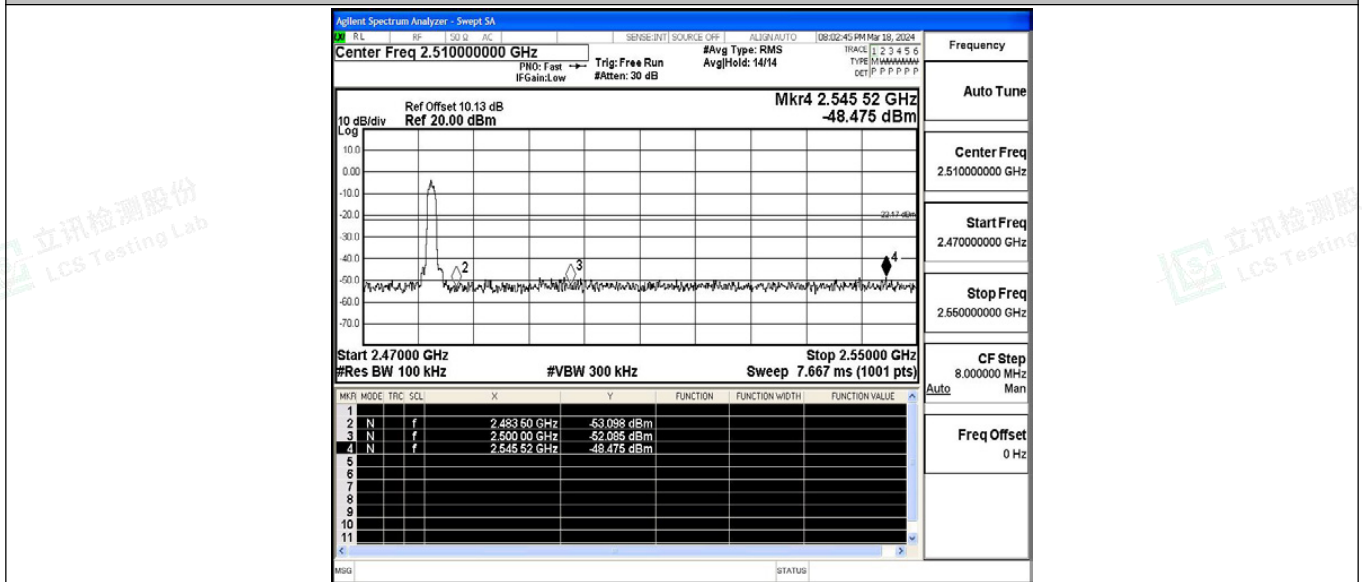


2DH5\_Ant1\_Low\_2402



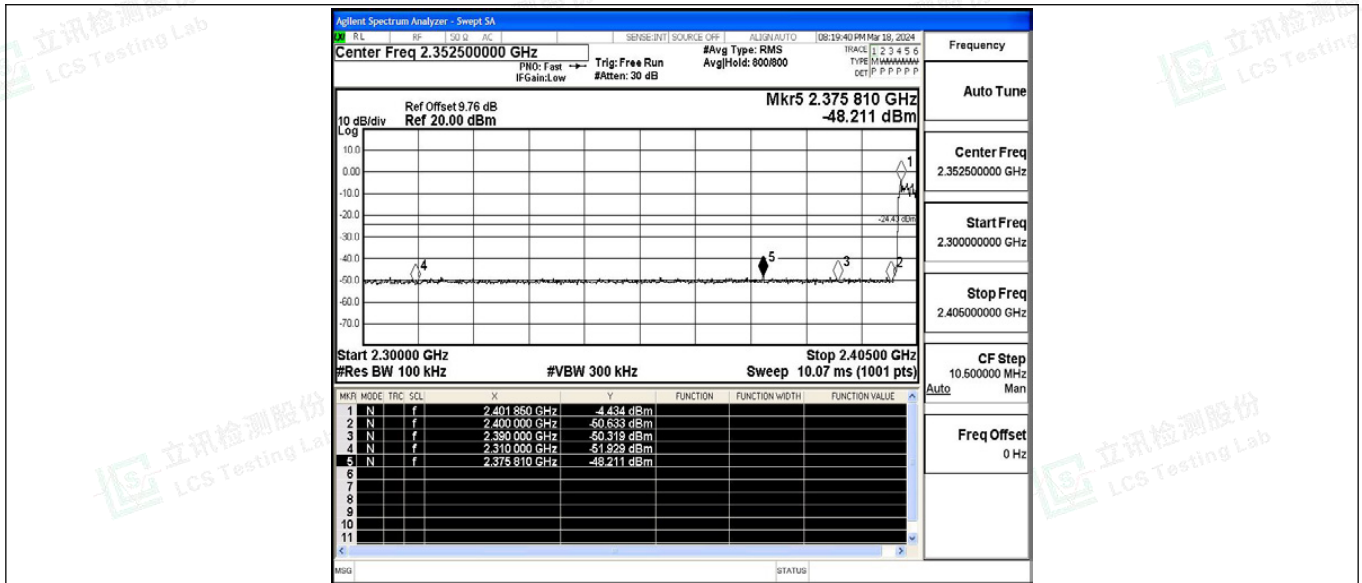


2DH5\_Ant1\_High\_2480

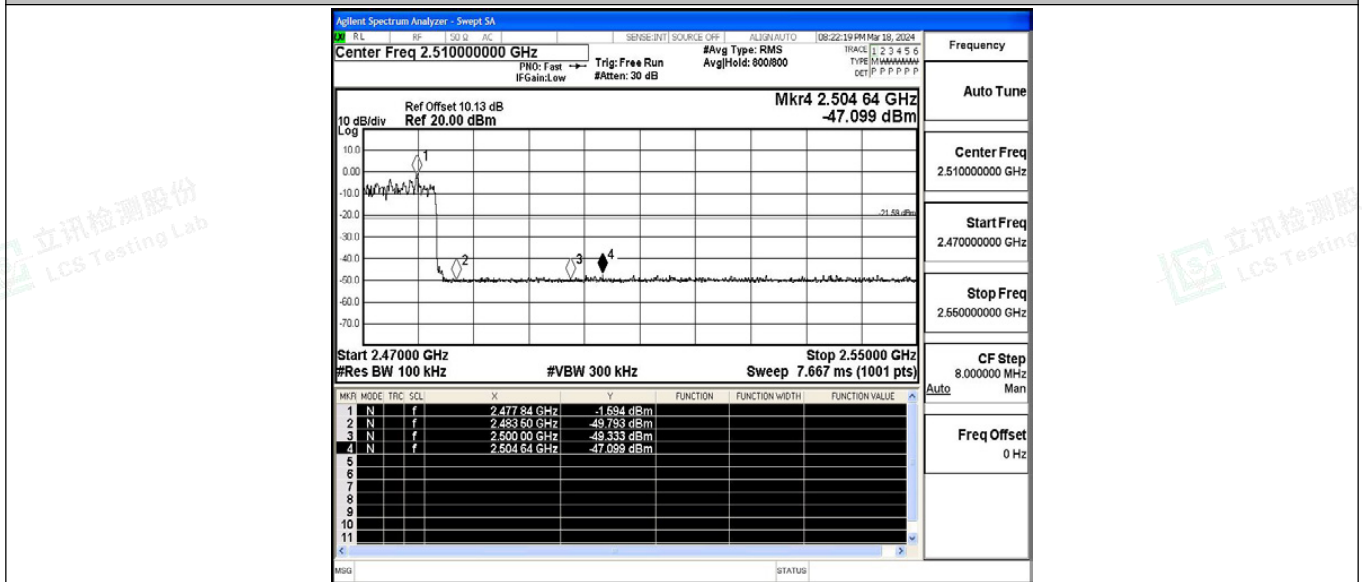


2DH5\_Ant1\_Low\_Hop\_2402



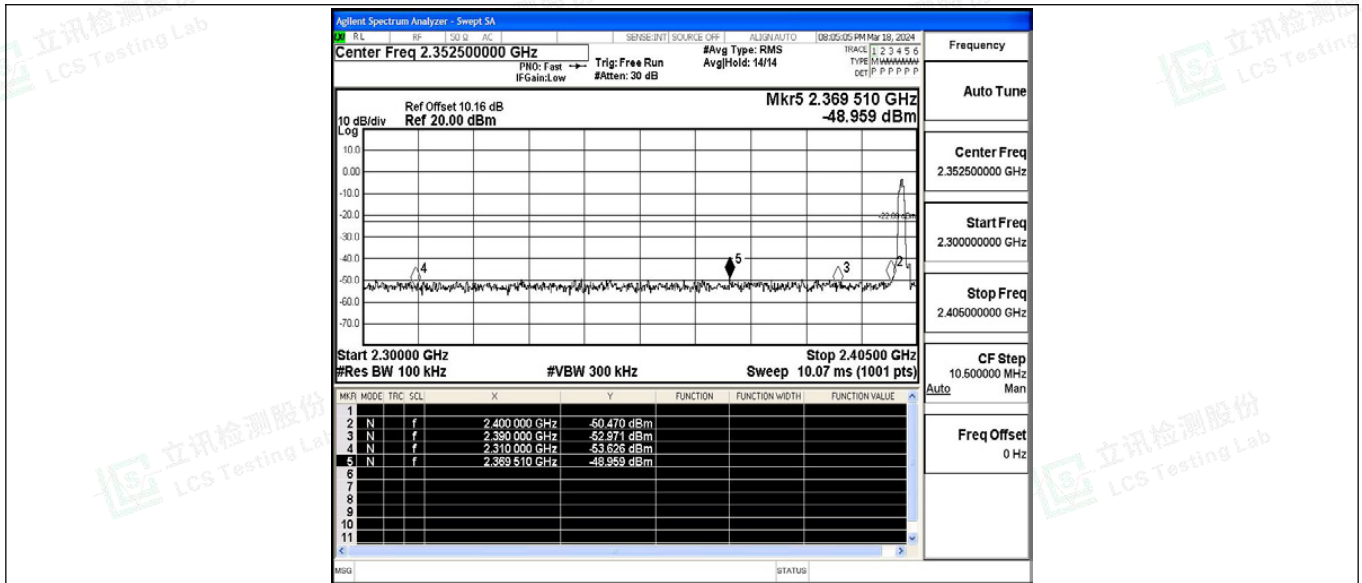


2DH5\_Ant1\_High\_Hop\_2480

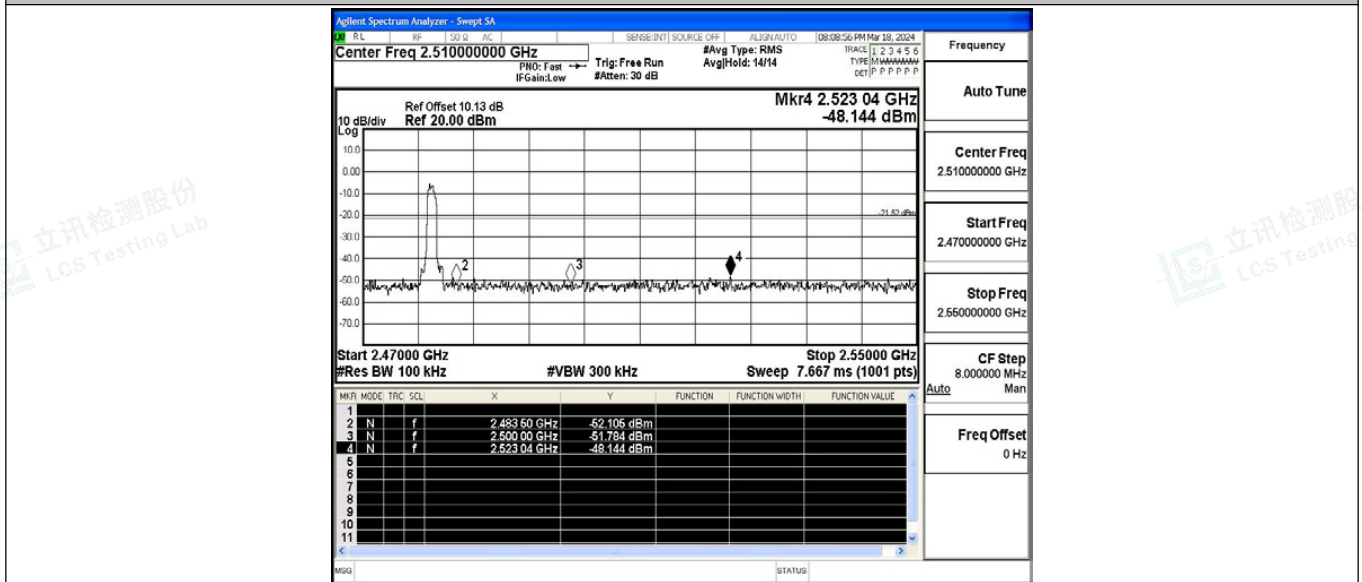


3DH5\_Ant1\_Low\_2402



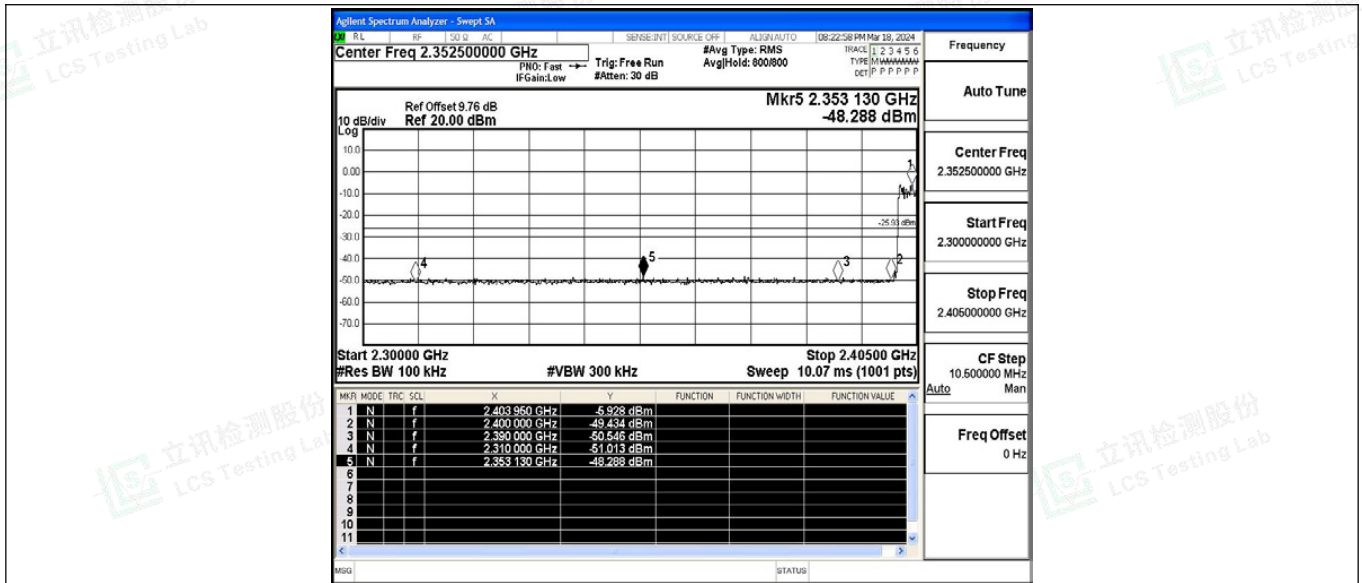


3DH5\_Ant1\_High\_2480

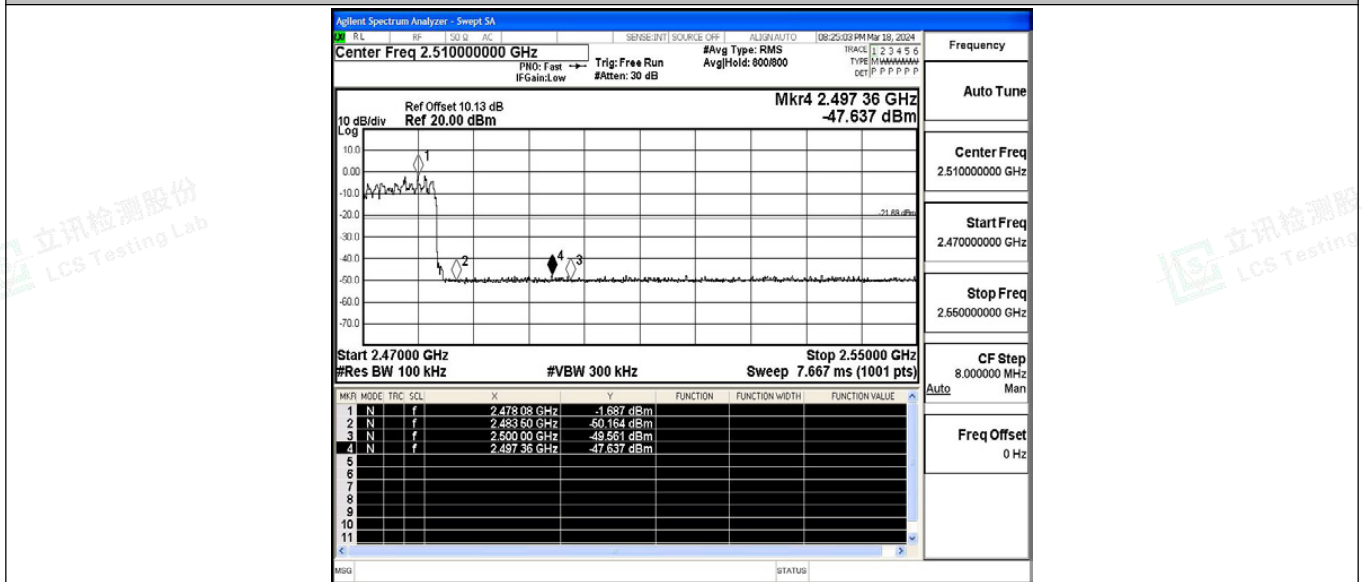


3DH5\_Ant1\_Low\_Hop\_2402





3DH5\_Ant1\_High\_Hop\_2480





## A.7 Conducted Spurious Emission

### Test Result

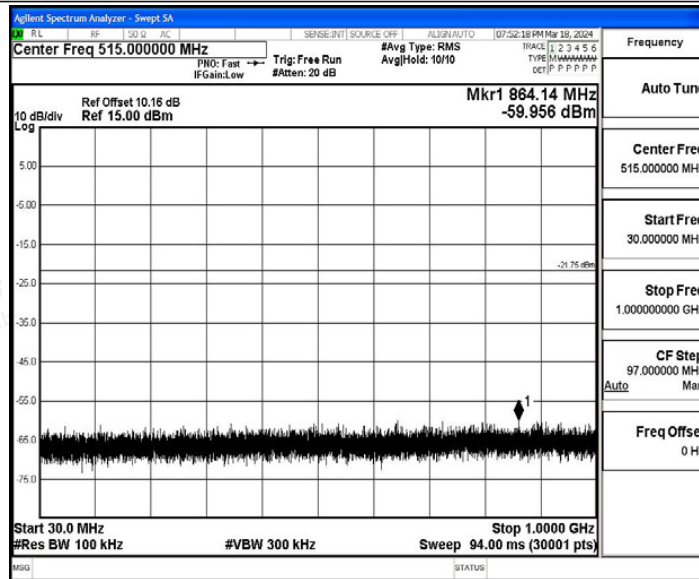
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	-1.75	-59.96	≤-21.75	PASS
			1000~26500	-1.75	-45.81	≤-21.75	PASS
		2441	30~1000	-0.93	-58.92	≤-20.93	PASS
			1000~26500	-0.93	-46.96	≤-20.93	PASS
		2480	30~1000	-0.98	-59.48	≤-20.98	PASS
			1000~26500	-0.98	-46.84	≤-20.98	PASS
2DH5	Ant1	2402	30~1000	-2.16	-59.72	≤-22.16	PASS
			1000~26500	-2.16	-47.19	≤-22.16	PASS
		2441	30~1000	-2.48	-59.87	≤-22.48	PASS
			1000~26500	-2.48	-47.47	≤-22.48	PASS
		2480	30~1000	-2.17	-56.91	≤-22.17	PASS
			1000~26500	-2.17	-47.32	≤-22.17	PASS
3DH5	Ant1	2402	30~1000	-2.89	-59.4	≤-22.89	PASS
			1000~26500	-2.89	-46.55	≤-22.89	PASS
		2441	30~1000	-4.85	-59.24	≤-24.85	PASS
			1000~26500	-4.85	-46.94	≤-24.85	PASS
		2480	30~1000	-1.52	-59.75	≤-21.52	PASS
			1000~26500	-1.52	-47.08	≤-21.52	PASS



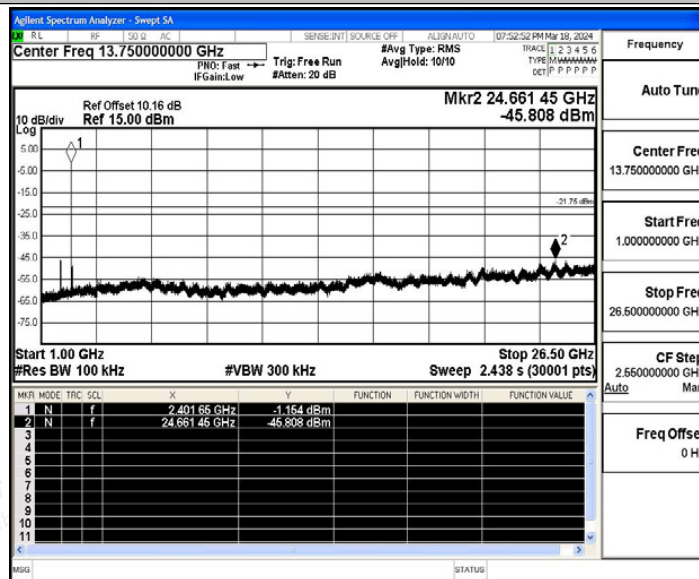


### Test Graphs

DH5\_Ant1\_2402\_30~1000

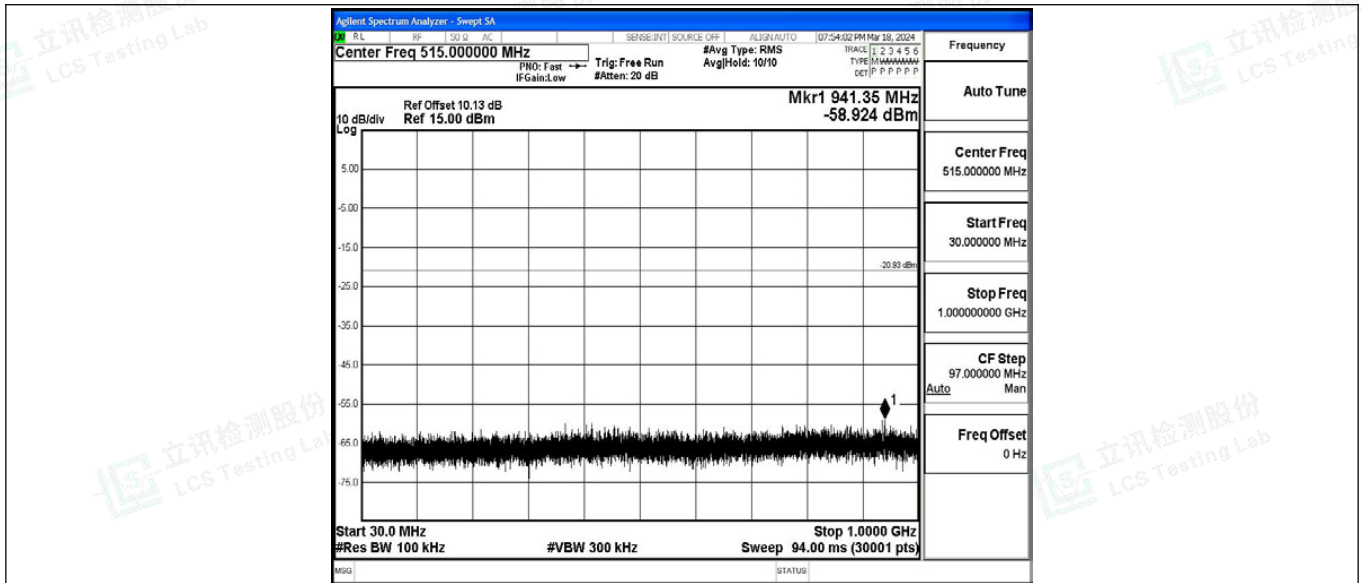


DH5\_Ant1\_2402\_1000~26500

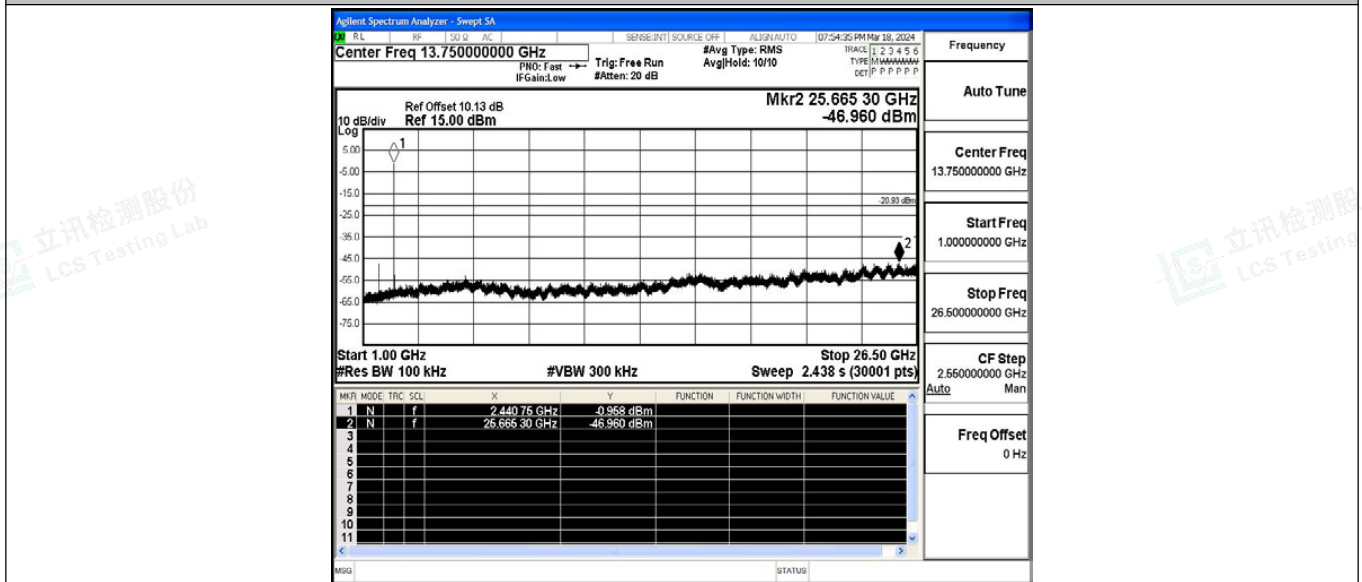


DH5\_Ant1\_2441\_30~1000





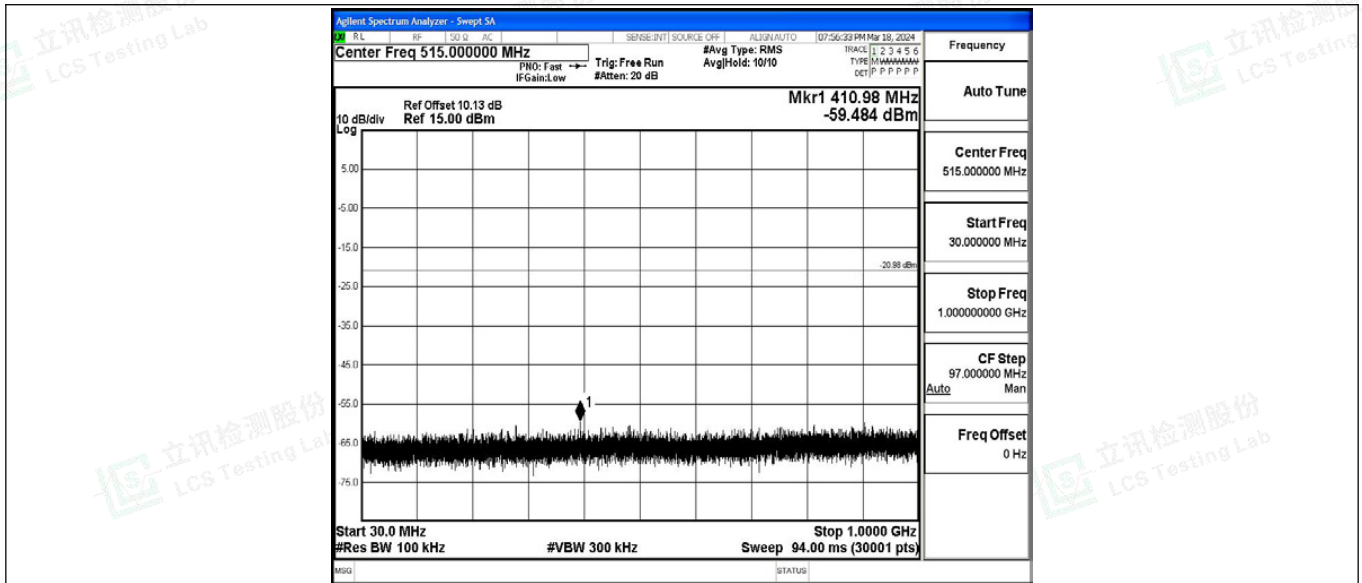
DH5\_Ant1\_2441\_100~26500



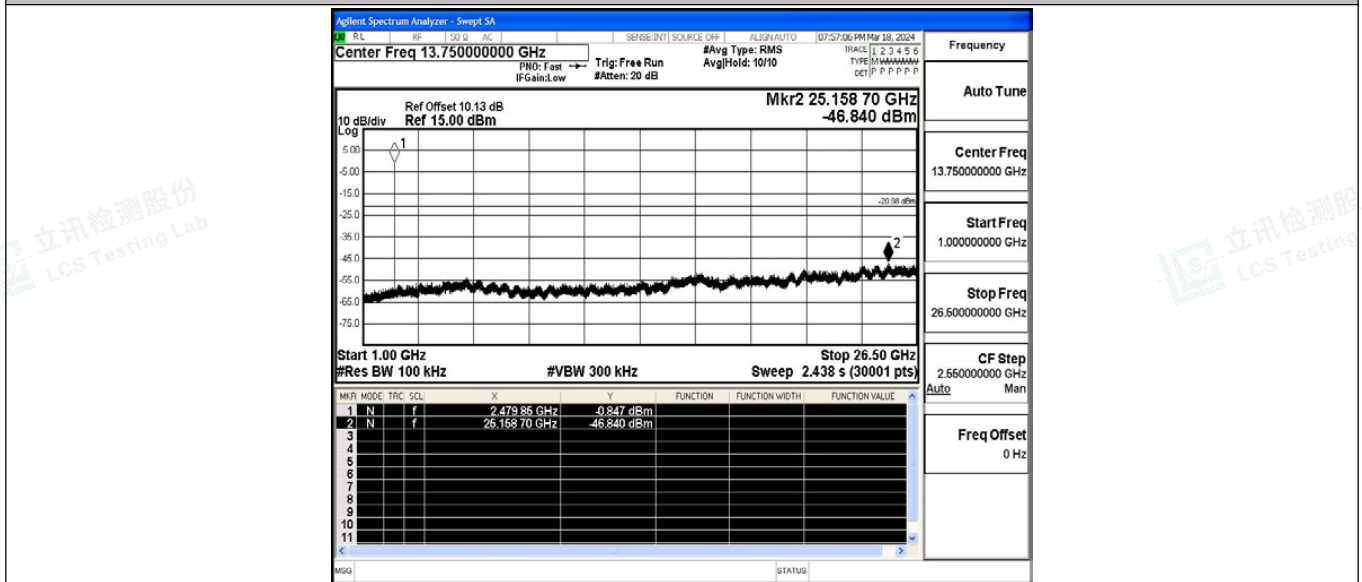
DH5\_Ant1\_2480\_30~1000





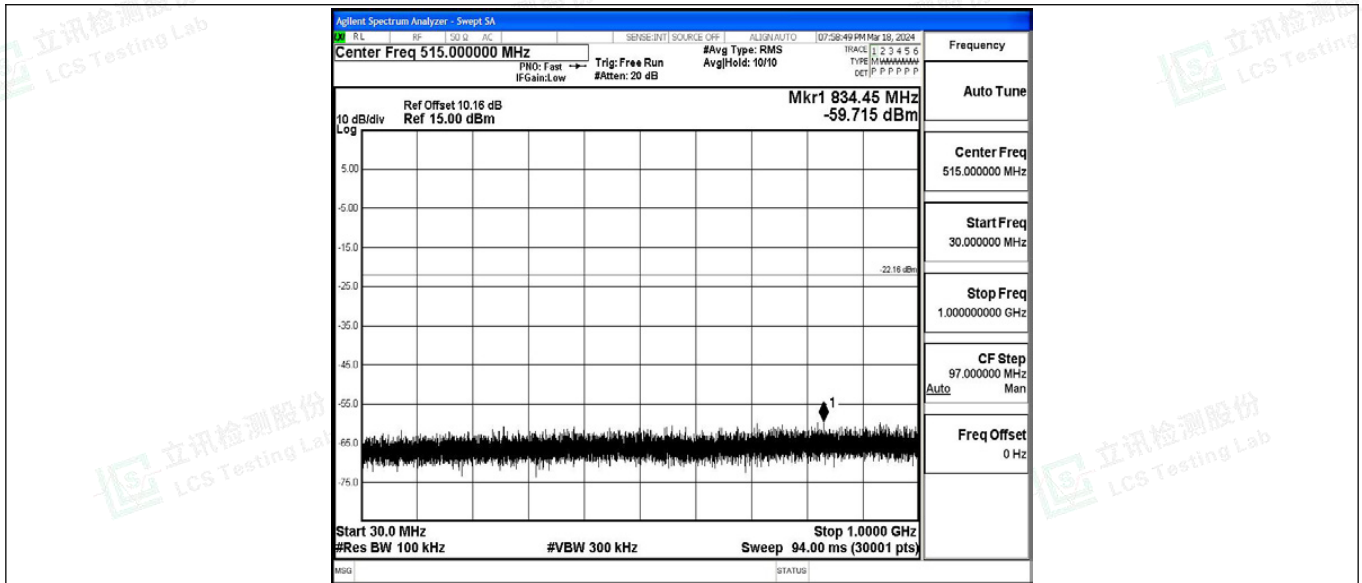


DH5\_Ant1\_2480\_100~26500

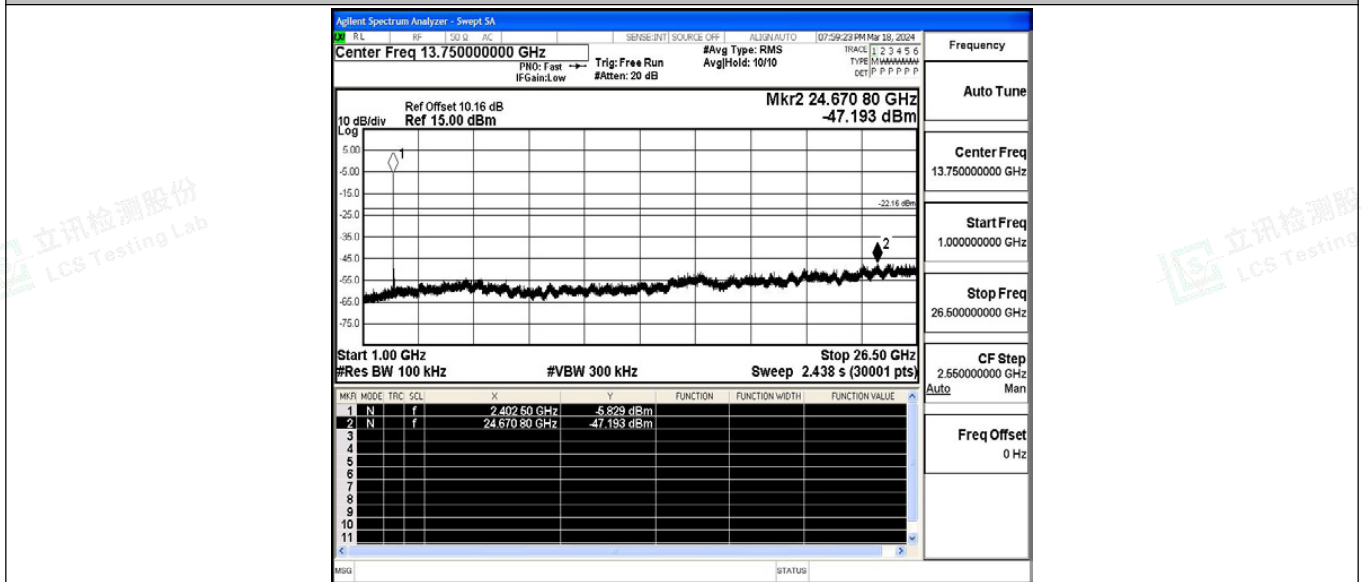


2DH5\_Ant1\_2402\_30~1000



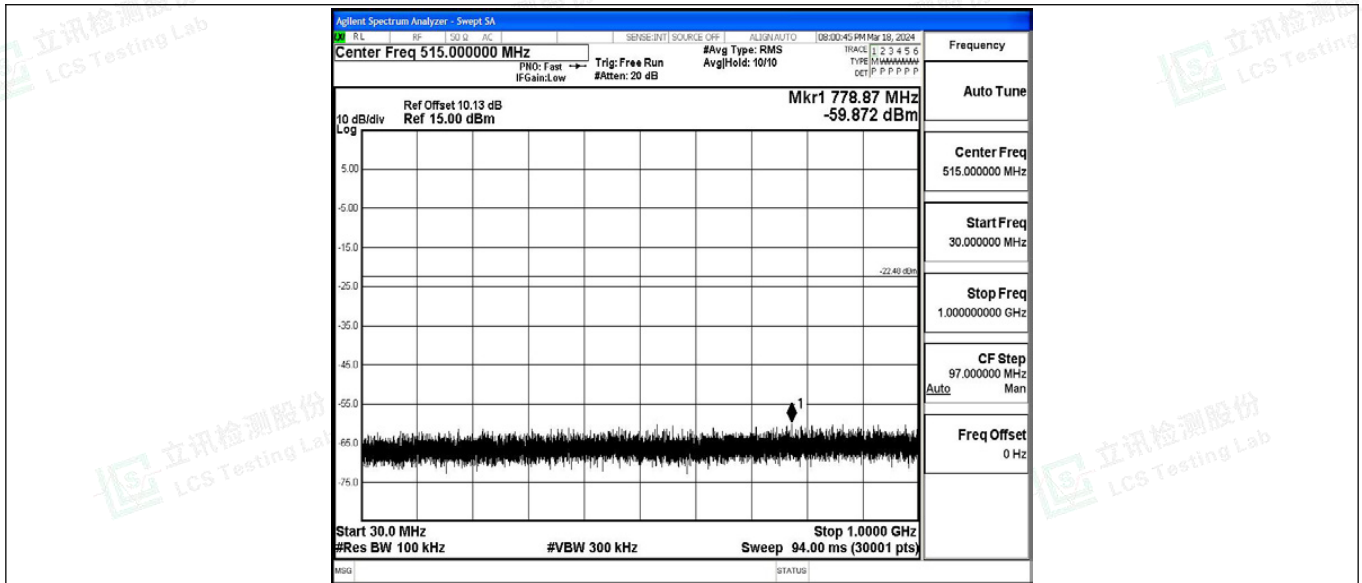


2DH5\_Ant1\_2402\_1000~26500

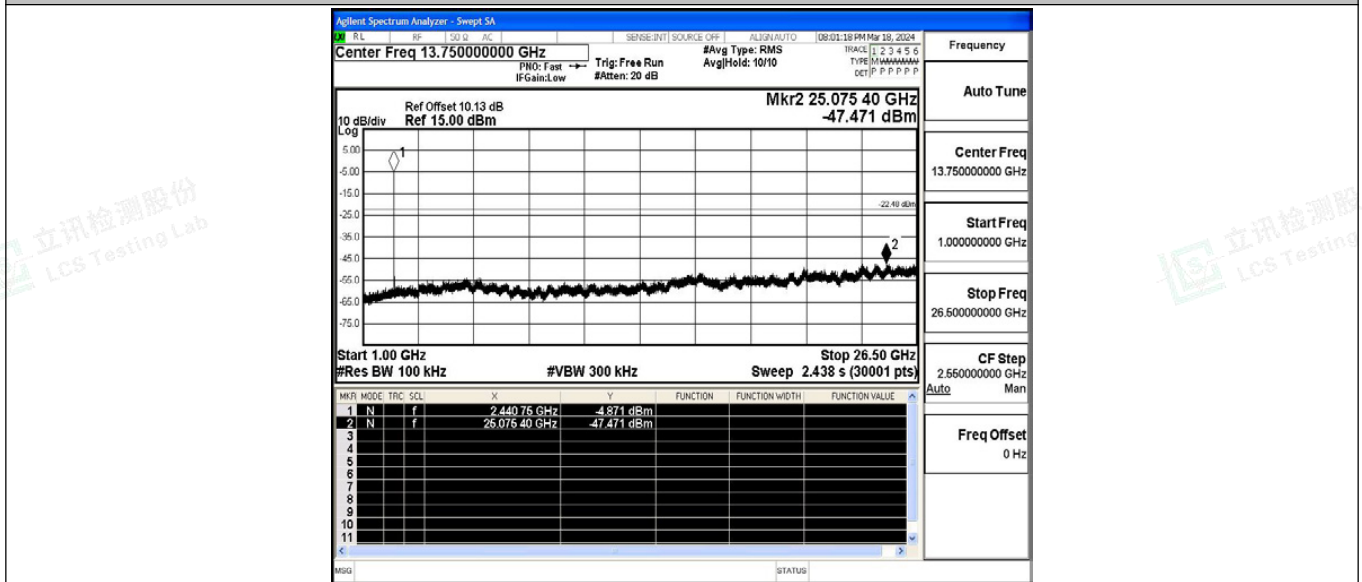


2DH5\_Ant1\_2441\_30~1000



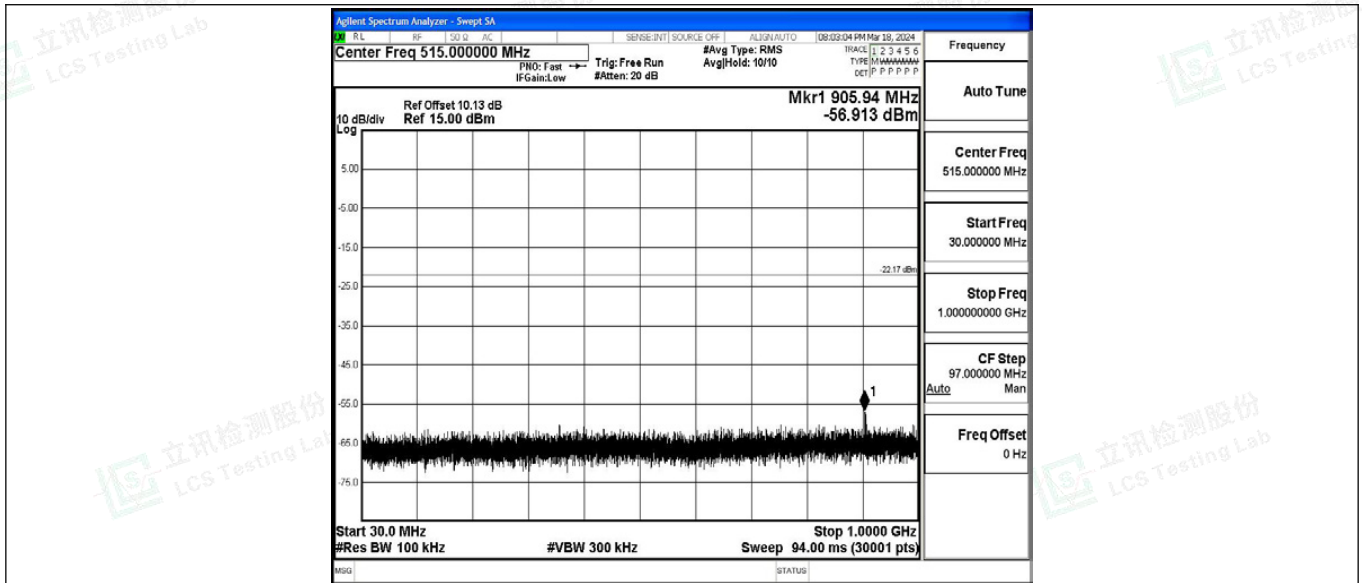


2DH5\_Ant1\_2441\_1000~26500

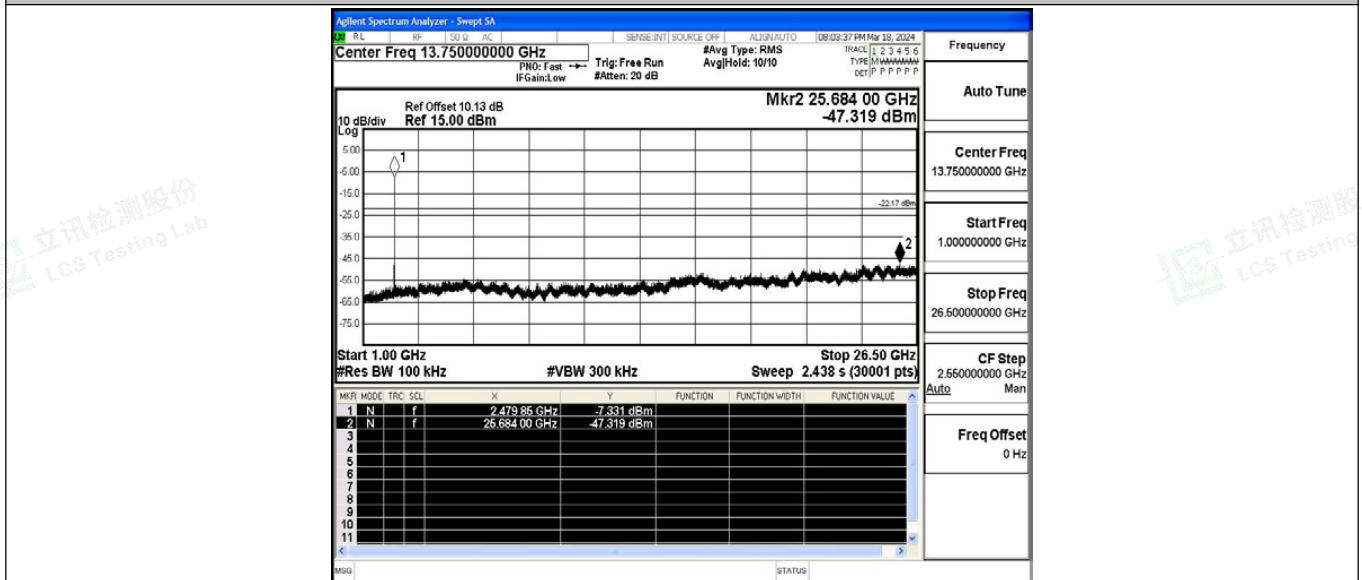


2DH5\_Ant1\_2480\_30~1000





2DH5\_Ant1\_2480\_1000~26500



3DH5\_Ant1\_2402\_30~1000

