



## Appendix A

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

Product Name: TA83 WirelessGaming headset

Test Model: TA83

#### Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Ling Zhu



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### A.1 20dB Emission Bandwidth

#### Test Result

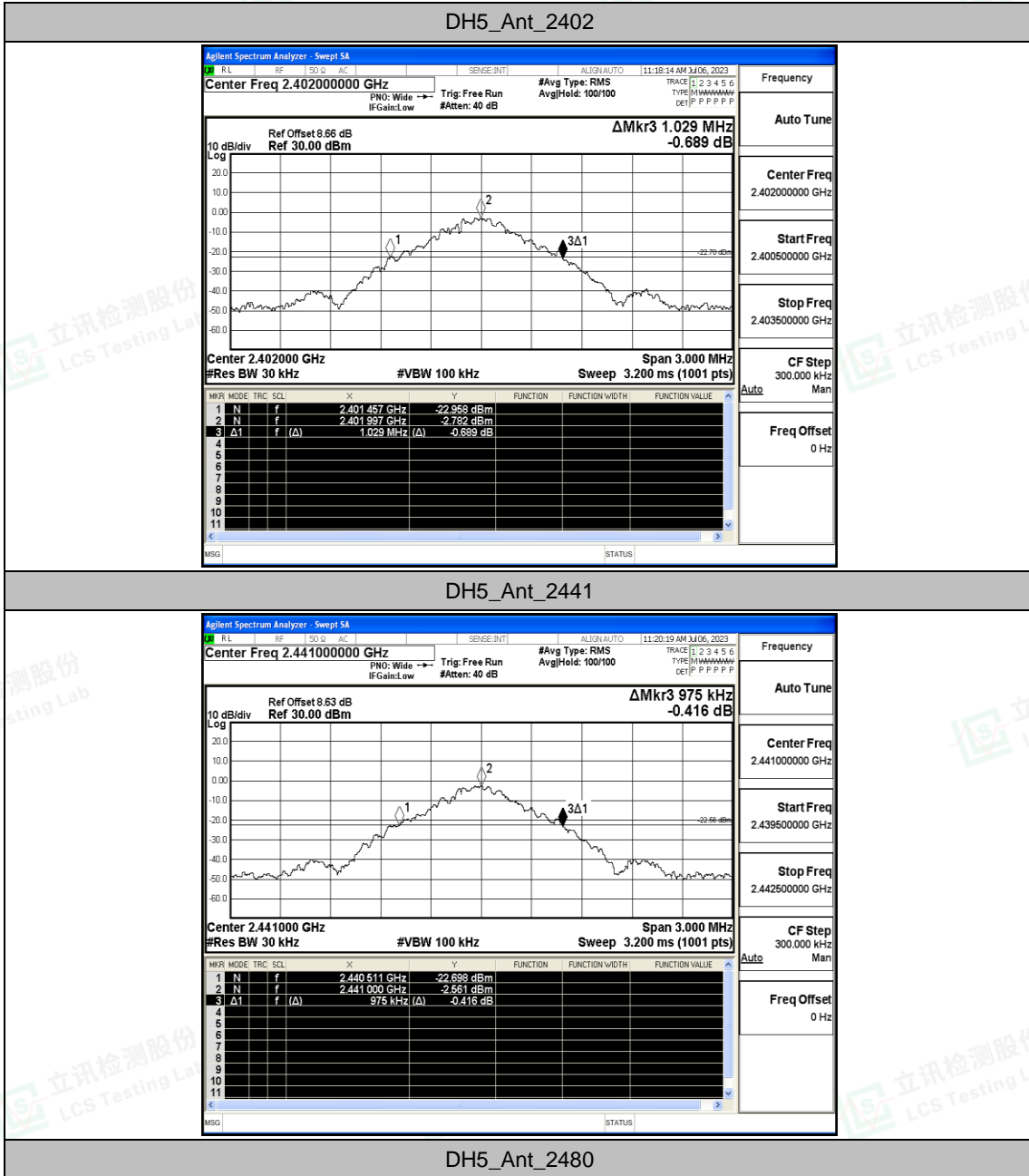
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant	2402	1.029	2401.457	2402.486	---	PASS
		2441	0.975	2440.511	2441.486	---	PASS
		2480	1.029	2479.460	2480.489	---	PASS
2DH5	Ant	2402	1.359	2401.310	2402.669	---	PASS
		2441	1.296	2440.349	2441.645	---	PASS
		2480	1.281	2479.358	2480.639	---	PASS
3DH5	Ant	2402	1.335	2401.322	2402.657	---	PASS
		2441	1.302	2440.340	2441.642	---	PASS
		2480	1.296	2479.337	2480.633	---	PASS



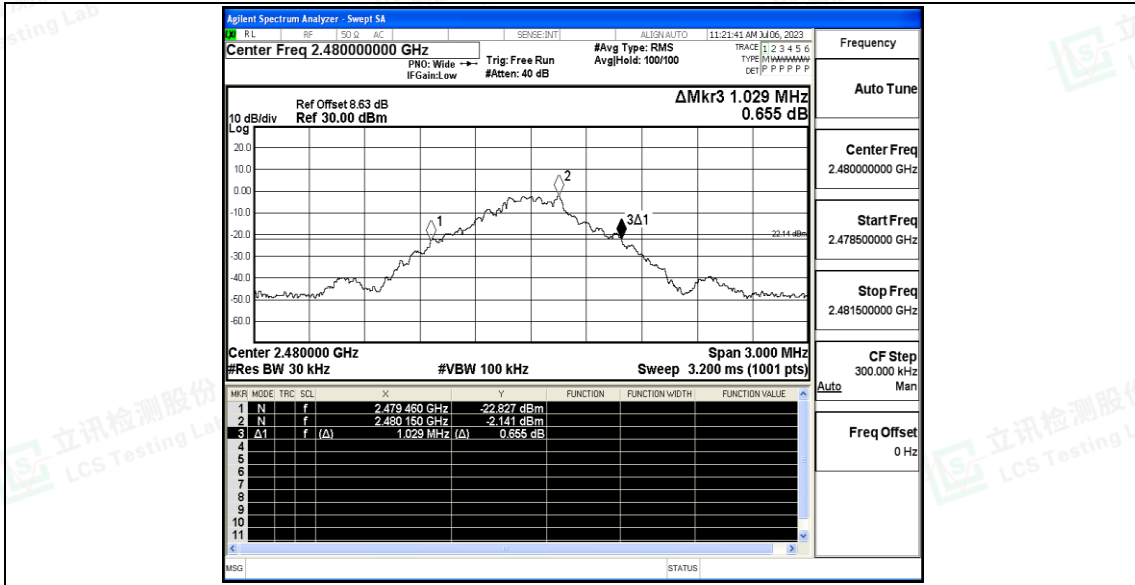
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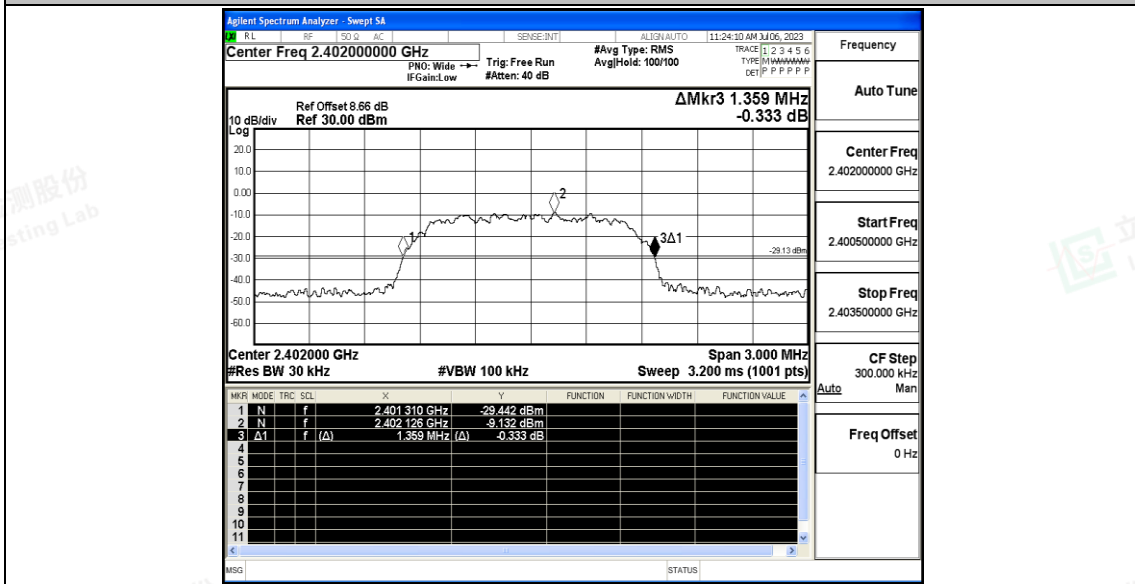
### Test Graphs



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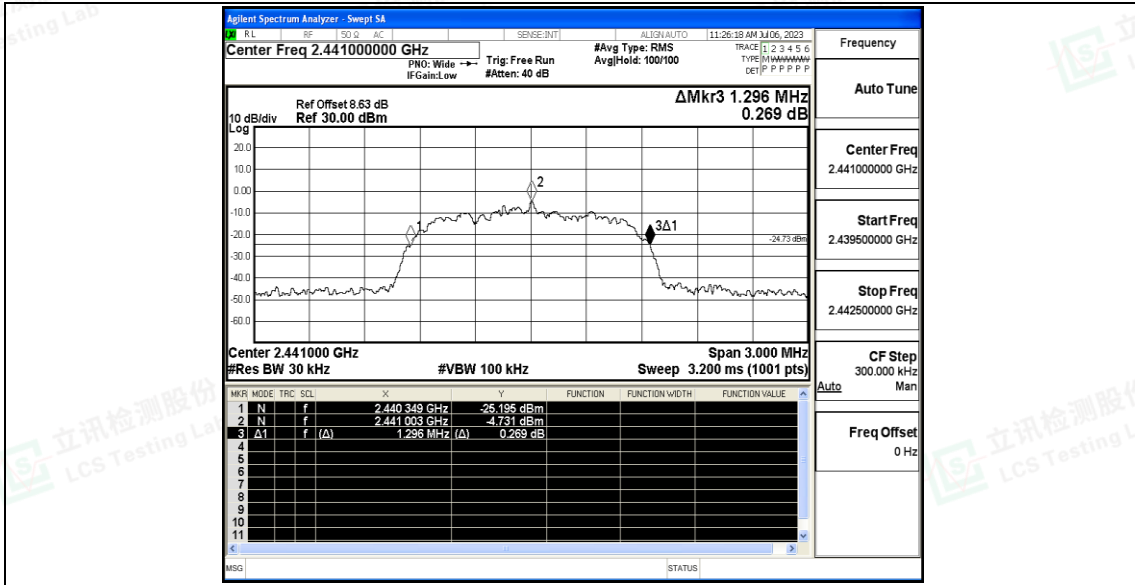
2DH5\_Ant\_2402



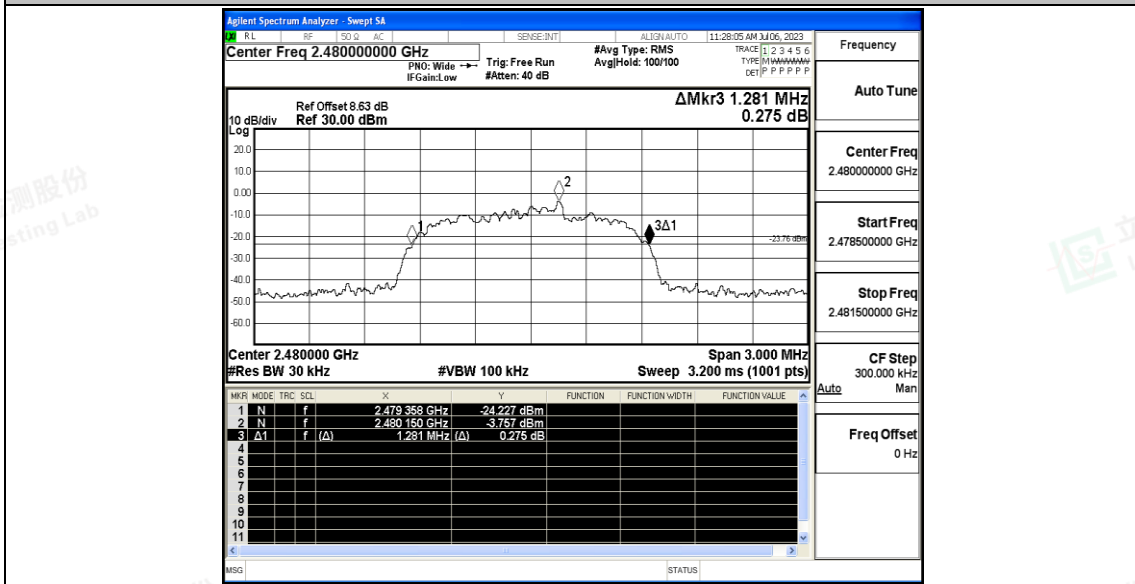
2DH5\_Ant\_2441



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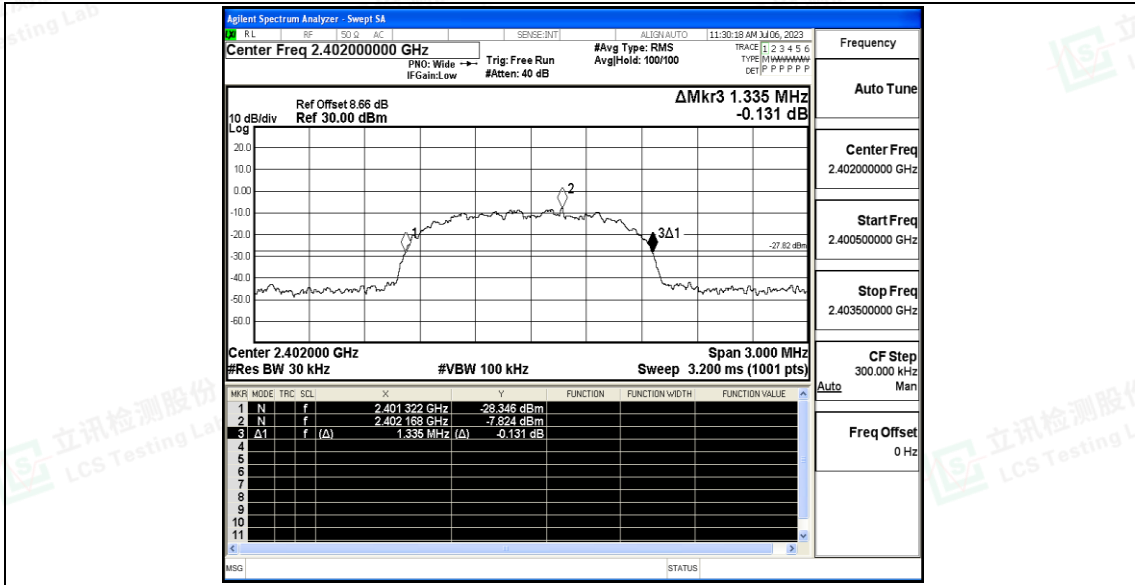
2DH5\_Ant\_2480



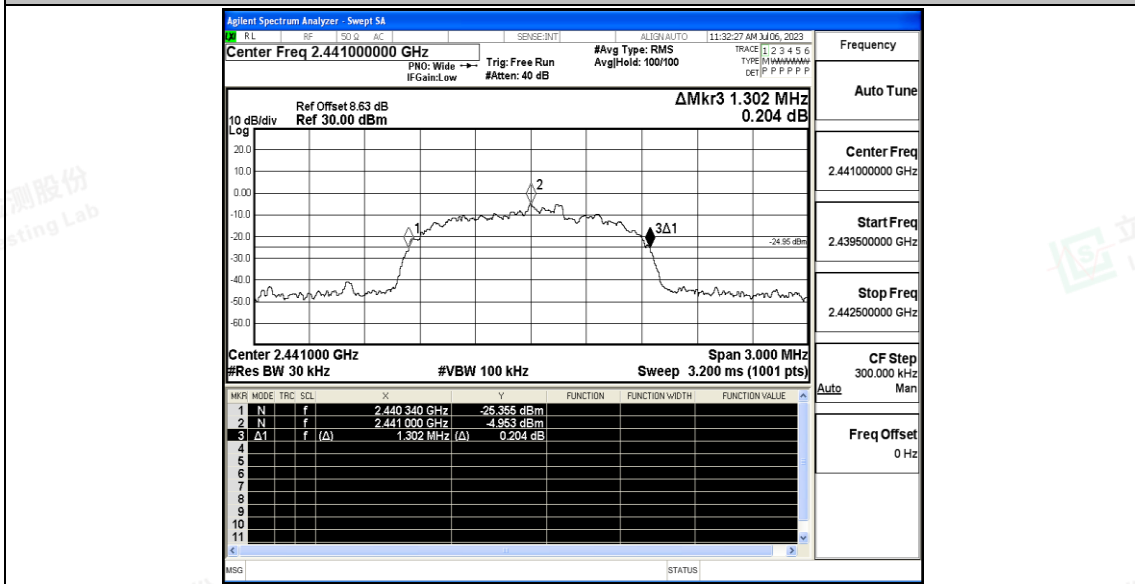
3DH5\_Ant\_2402



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3DH5\_Ant\_2441



3DH5\_Ant\_2480

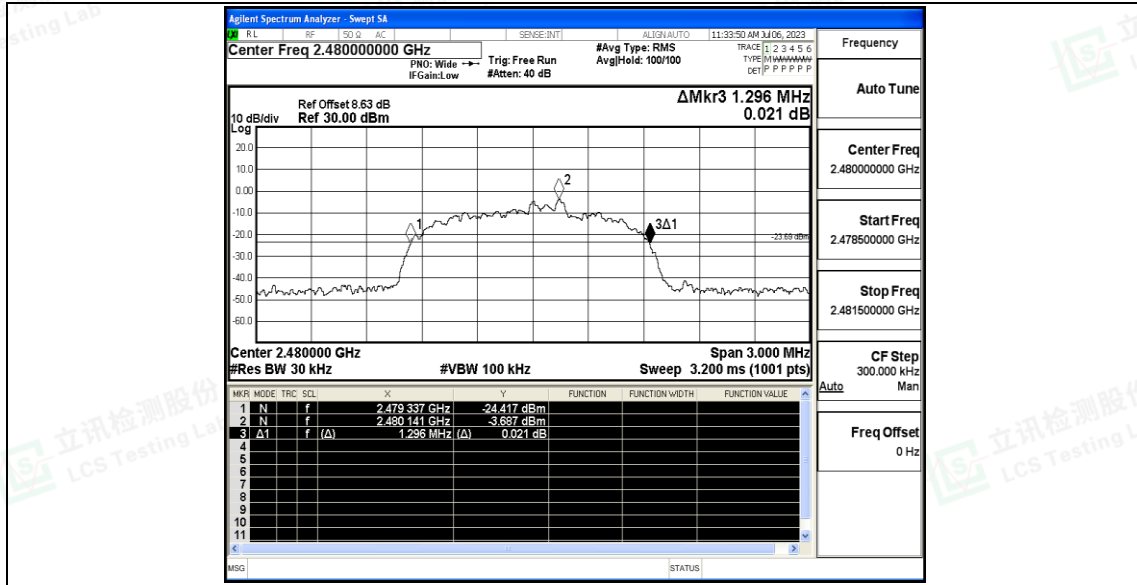


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## A.2 Maximum conducted output power

### Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant	2402	0.41	≤20.97	PASS
		2441	0.44	≤20.97	PASS
		2480	0.53	≤20.97	PASS
2DH5	Ant	2402	-0.02	≤20.97	PASS
		2441	0.20	≤20.97	PASS
		2480	0.24	≤20.97	PASS
3DH5	Ant	2402	0.24	≤20.97	PASS
		2441	0.25	≤20.97	PASS
		2480	0.33	≤20.97	PASS

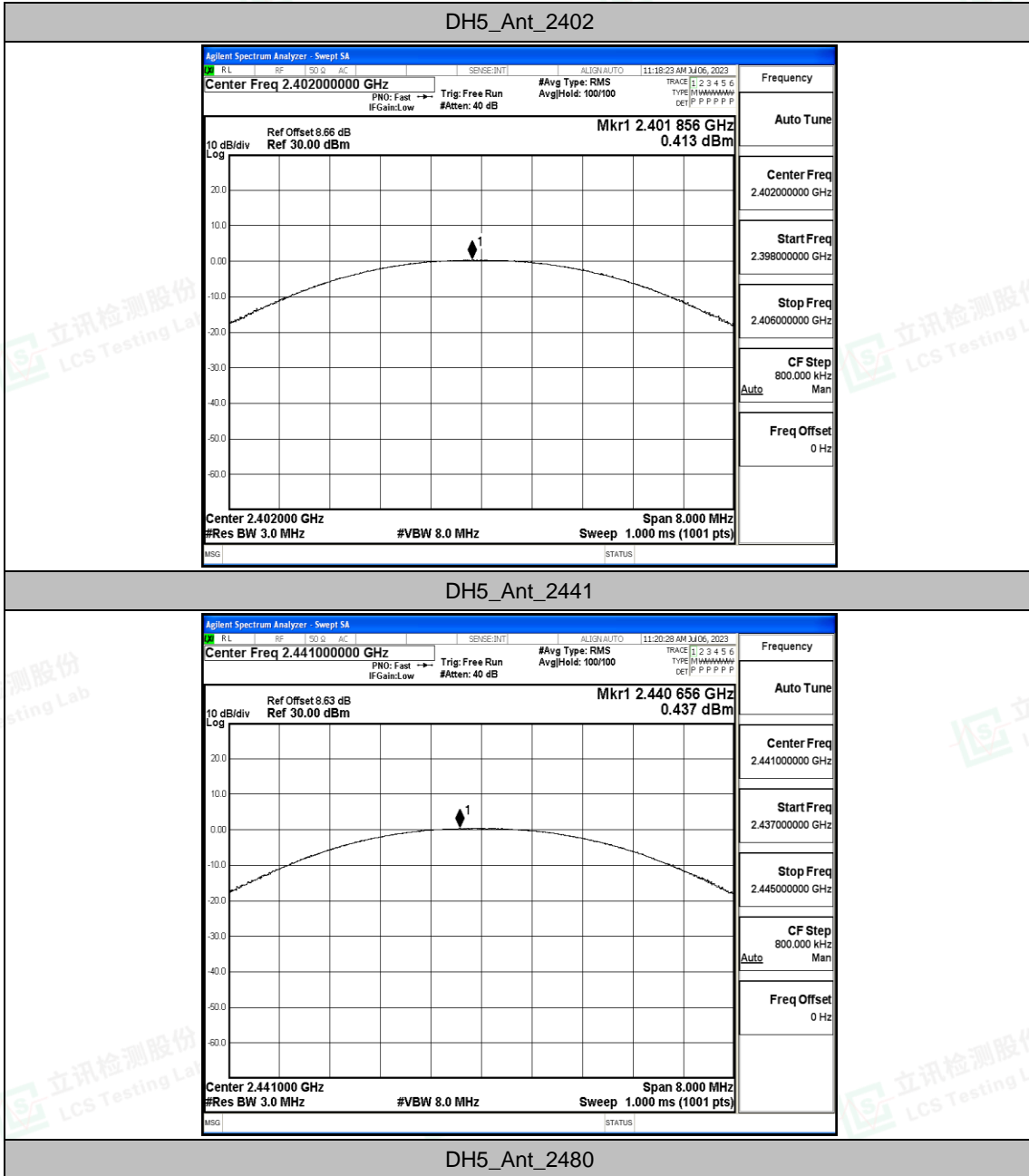


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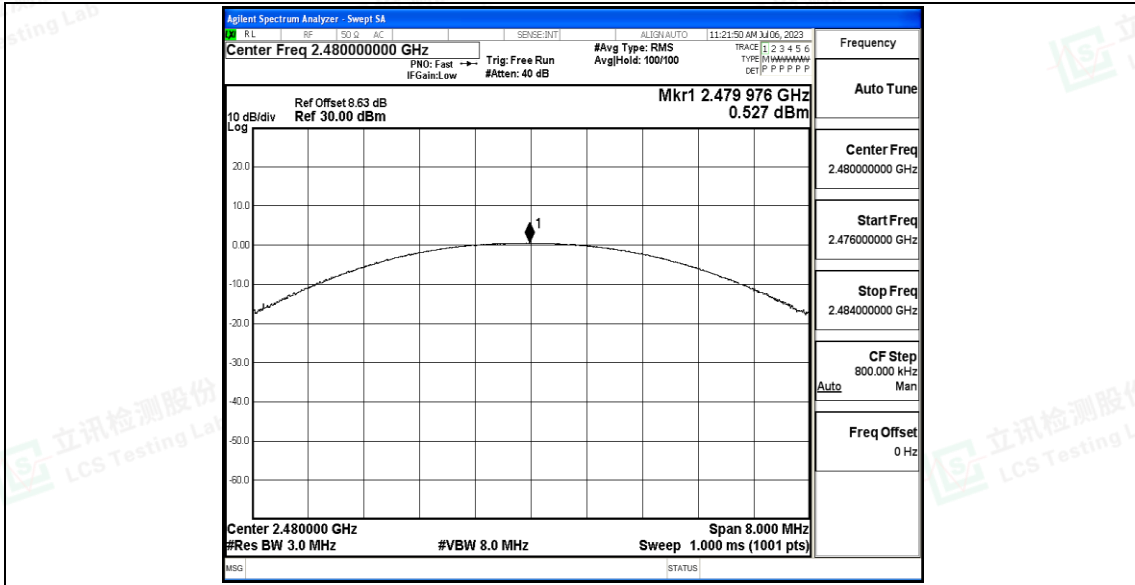




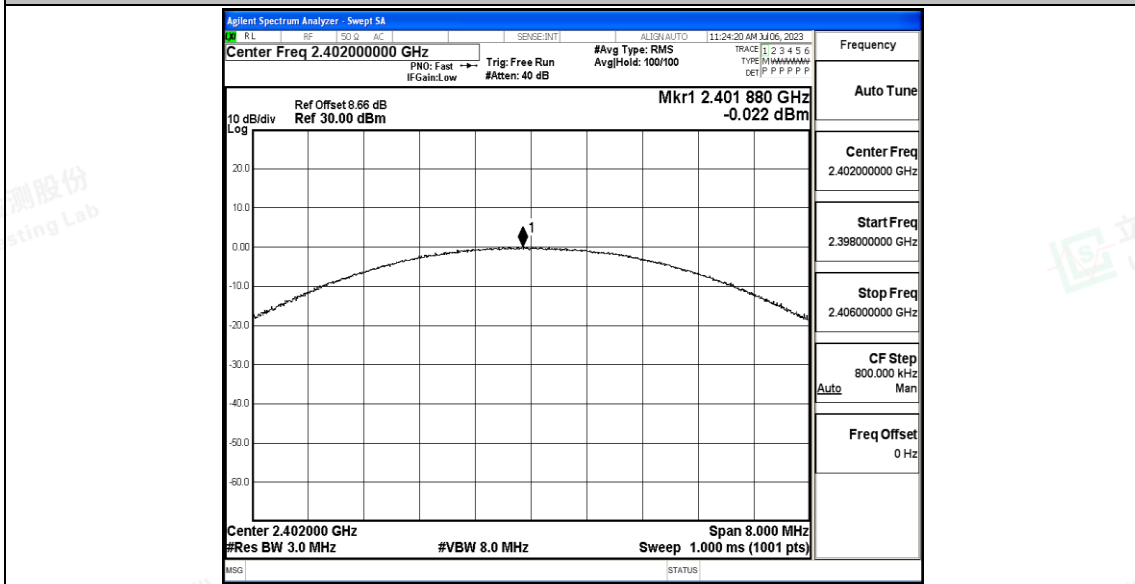
### Test Graphs



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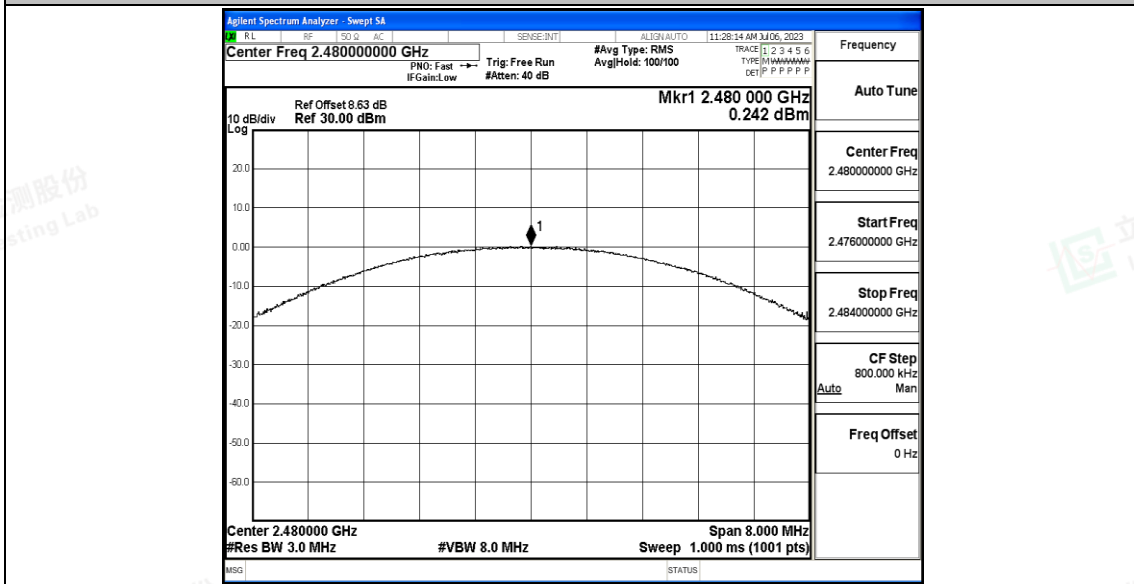
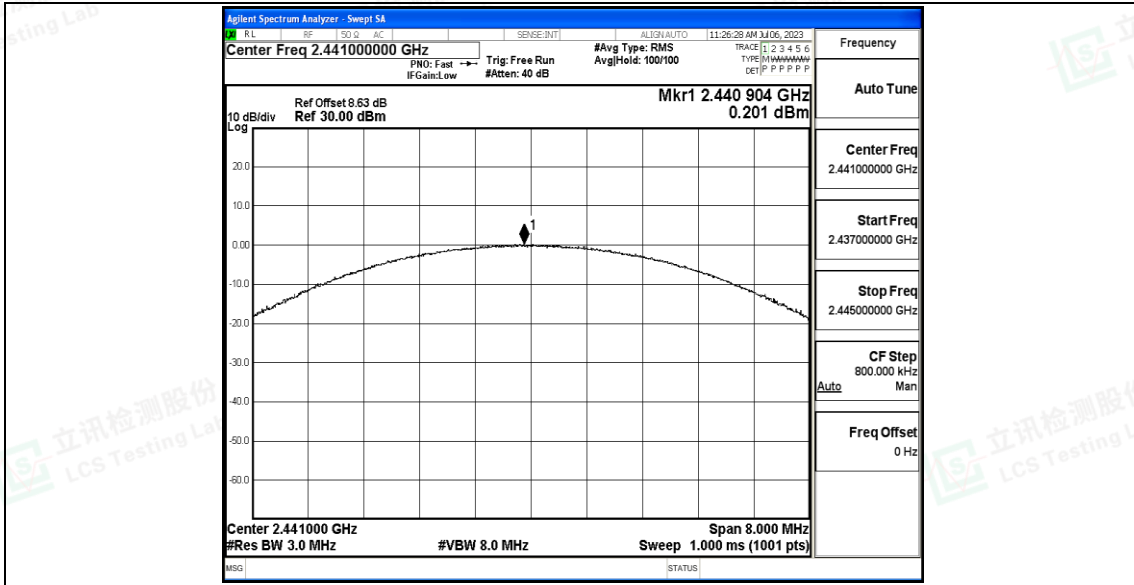
2DH5\_Ant\_2402



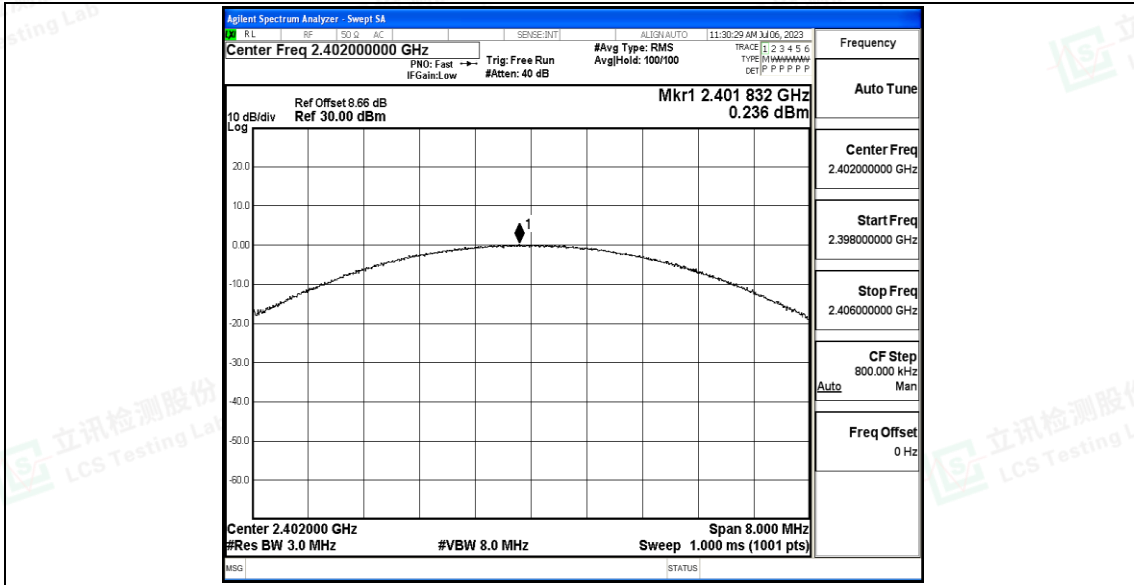
2DH5\_Ant\_2441



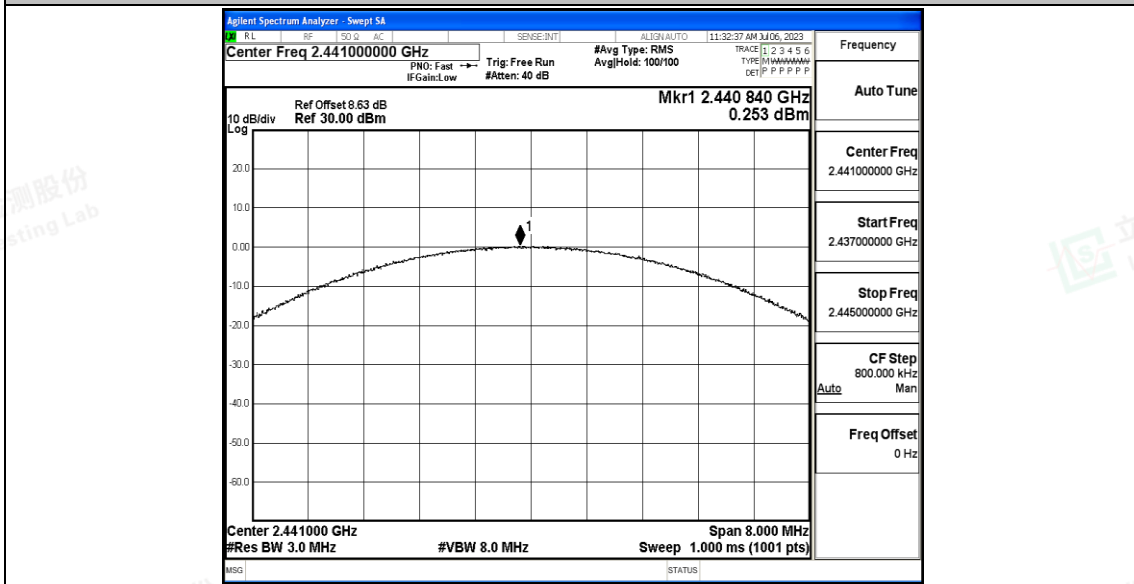
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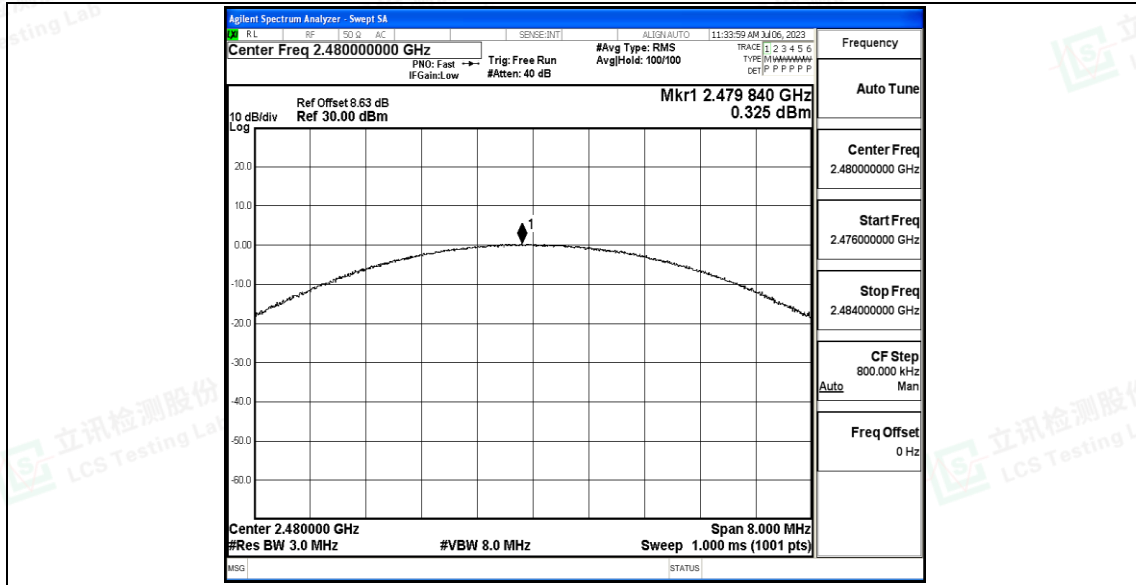
3DH5\_Ant\_2441



3DH5\_Ant\_2480



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### A.3 Carrier frequency separation

#### Test Result

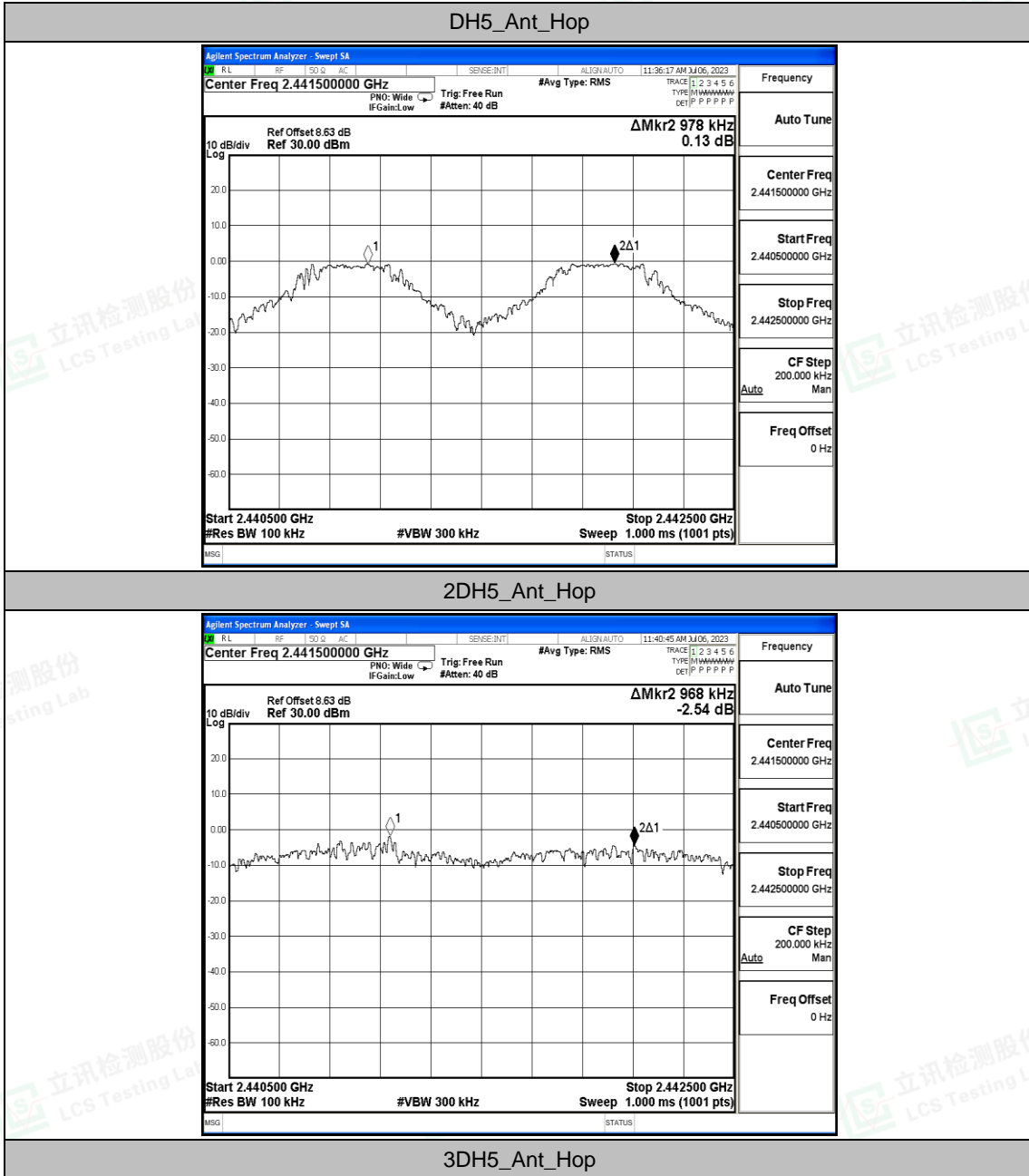
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	0.978	≥0.686	PASS
2DH5	Ant	Hop	0.968	≥0.906	PASS
3DH5	Ant	Hop	1.02	≥0.890	PASS



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### Test Graphs

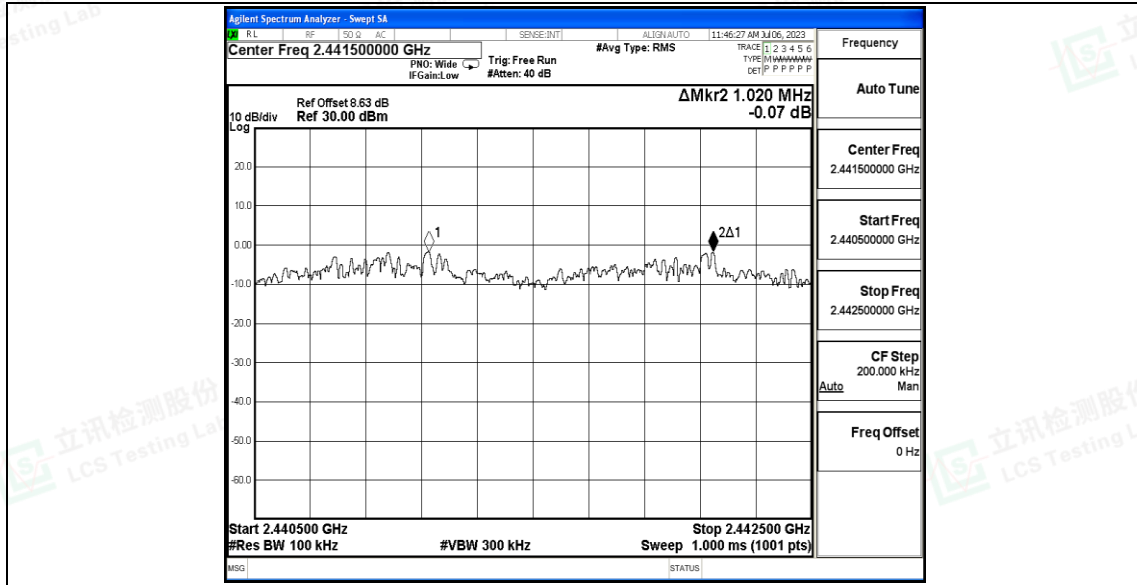


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## A.4 Time of occupancy

### Test Result

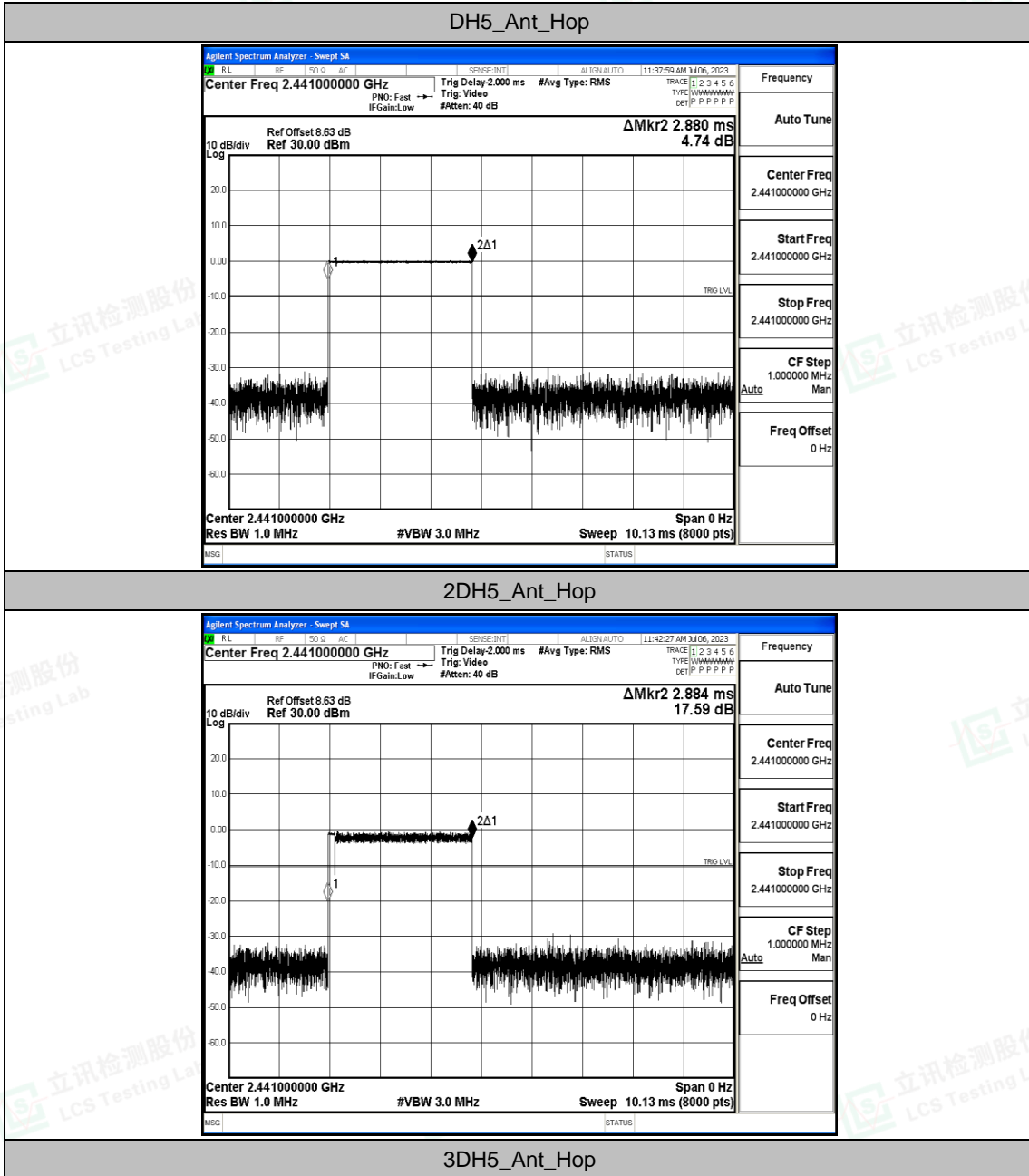
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant	Hop	2.885	106.67	0.308	≤0.4	PASS



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### Test Graphs

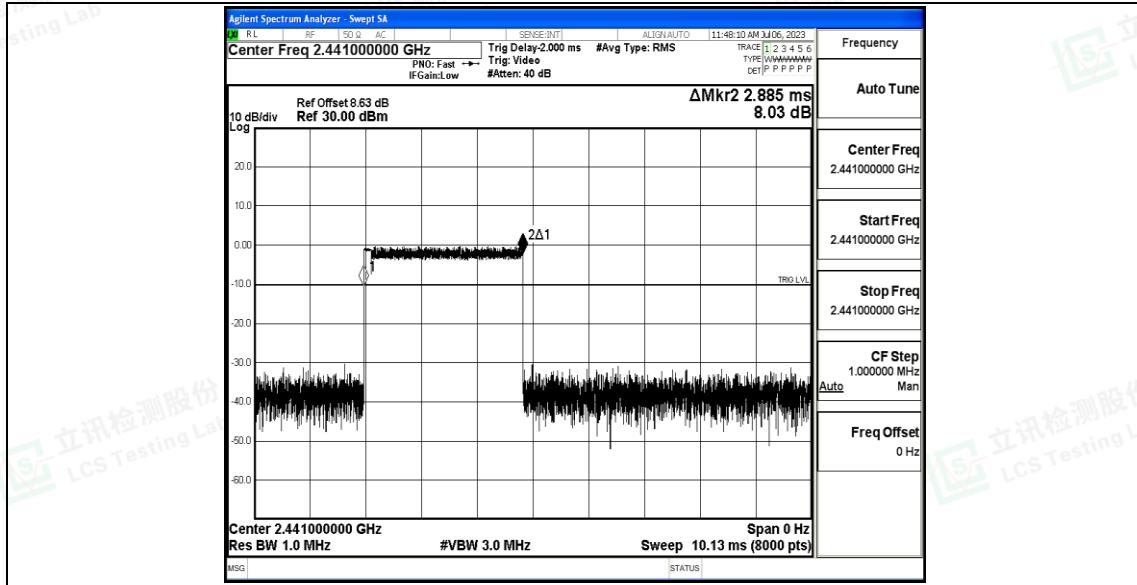


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## A.5 Number of hopping channels

### Test Result

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



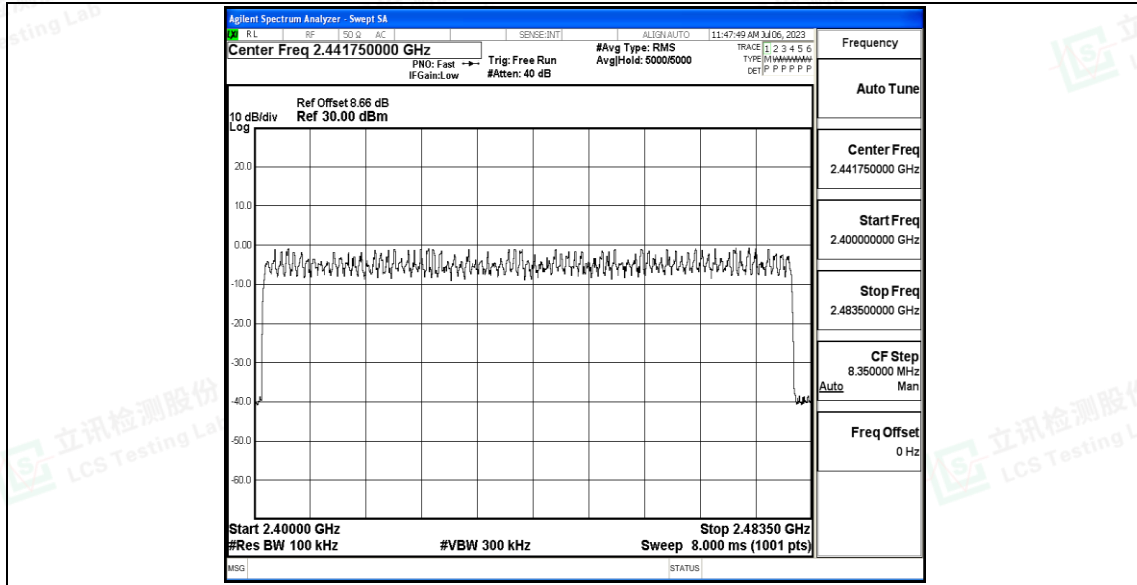
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### Test Graphs



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### A.6 Band edge measurements

#### Test Result

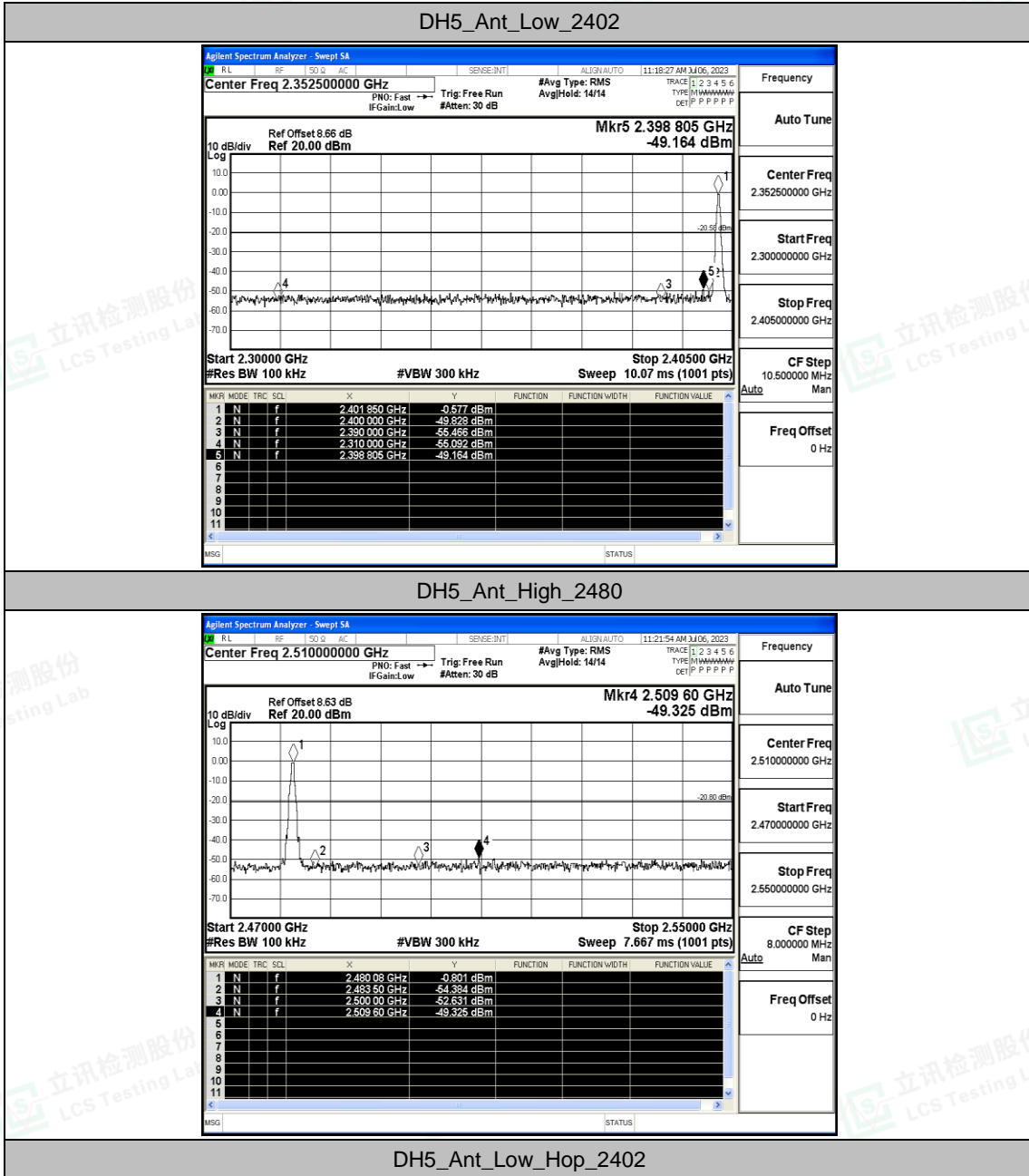
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	-0.58	-49.16	≤-20.58	PASS
		High	2480	-0.80	-49.33	≤-20.8	PASS
		Low	Hop_2402	-0.89	-49.36	≤-20.89	PASS
		High	Hop_2480	0.01	-47.39	≤-19.99	PASS
2DH5	Ant	Low	2402	-3.29	-49.49	≤-23.29	PASS
		High	2480	-4.36	-48.04	≤-24.36	PASS
		Low	Hop_2402	-3.01	-49.19	≤-23.01	PASS
		High	Hop_2480	-2.03	-47.65	≤-22.03	PASS
3DH5	Ant	Low	2402	-2.22	-50.19	≤-22.22	PASS
		High	2480	-4.33	-48.67	≤-24.33	PASS
		Low	Hop_2402	-1.55	-48.46	≤-21.55	PASS
		High	Hop_2480	-3.65	-48.33	≤-23.65	PASS



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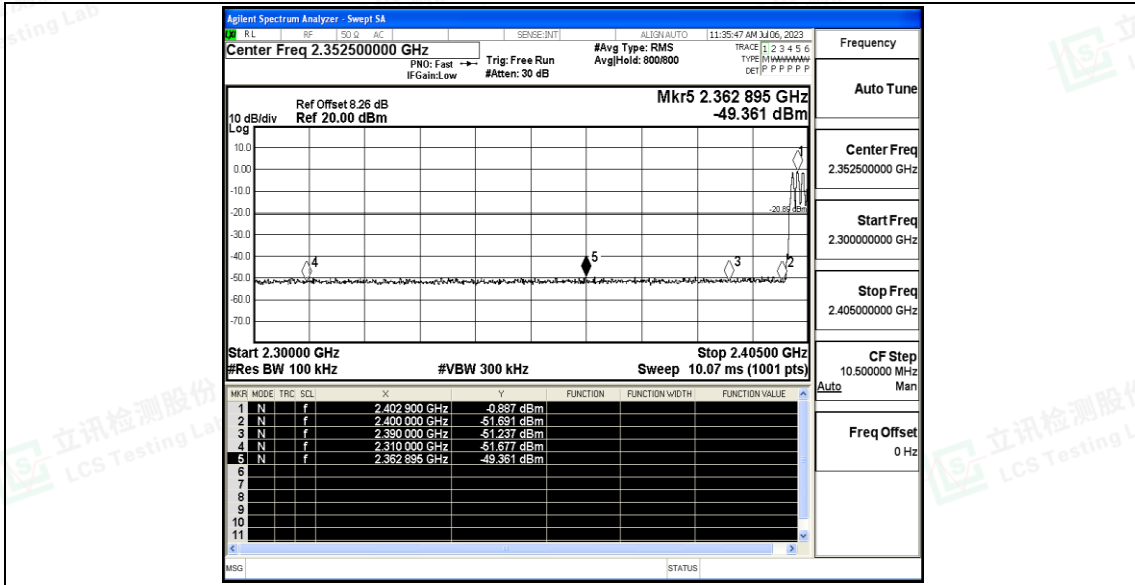


### Test Graphs

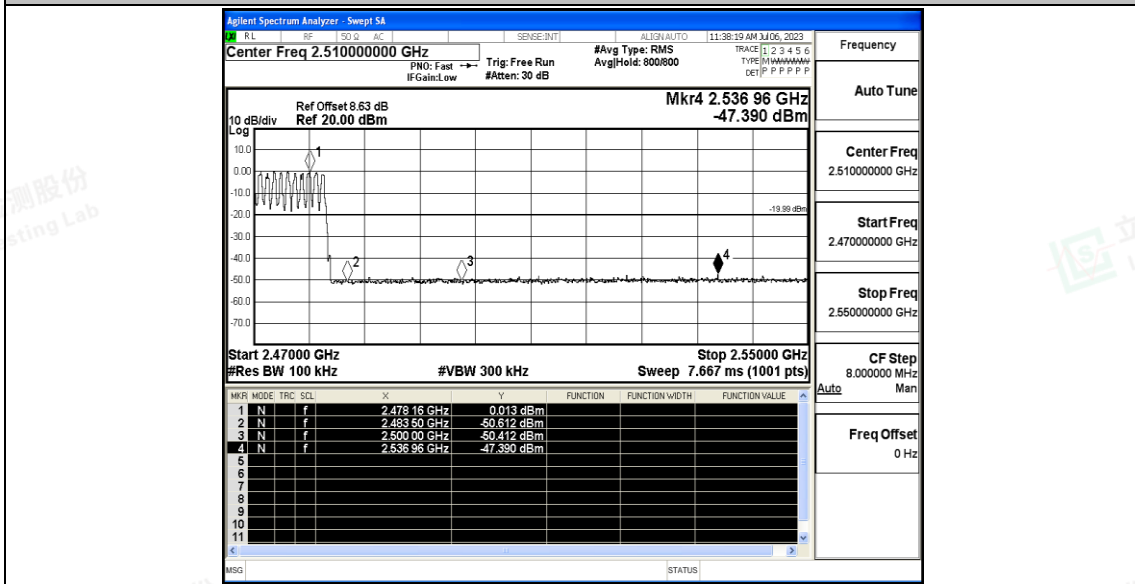


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DH5\_Ant\_High\_Hop\_2480



2DH5\_Ant\_Low\_2402

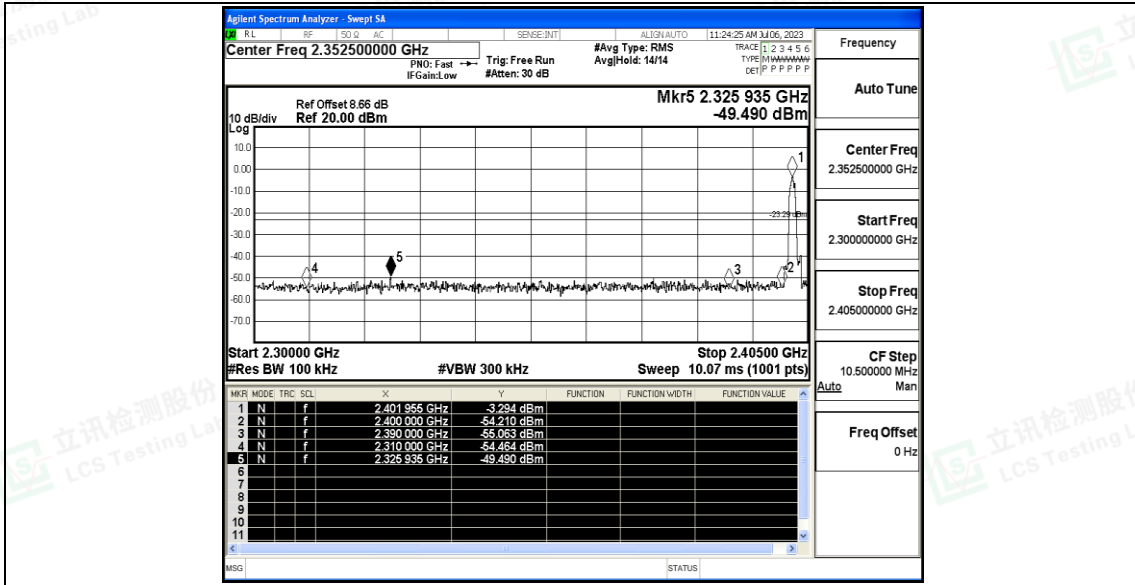


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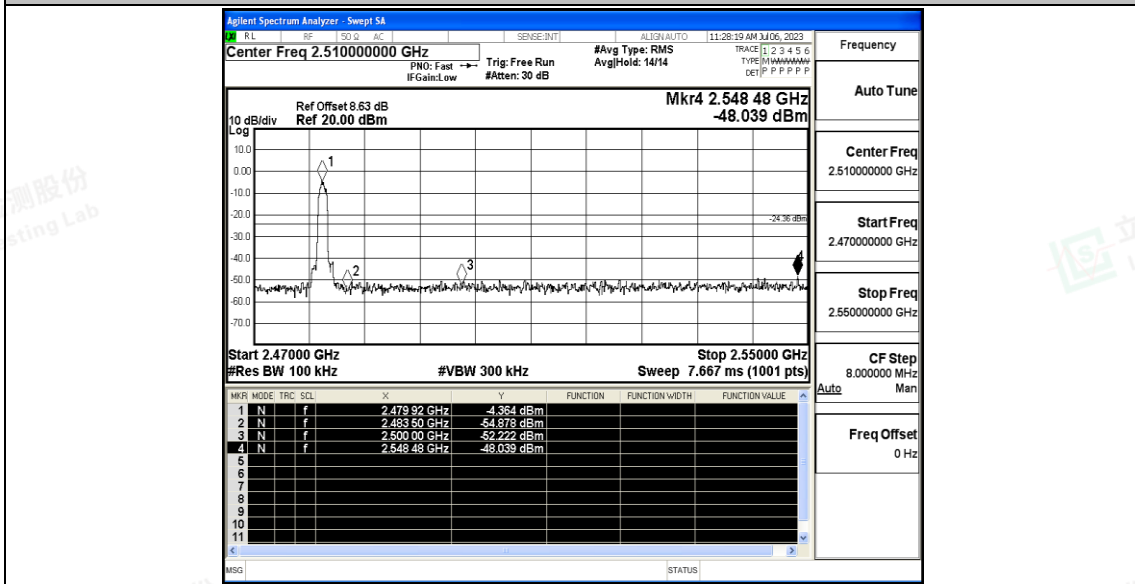
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2DH5\_Ant\_High\_2480



2DH5\_Ant\_Low\_Hop\_2402

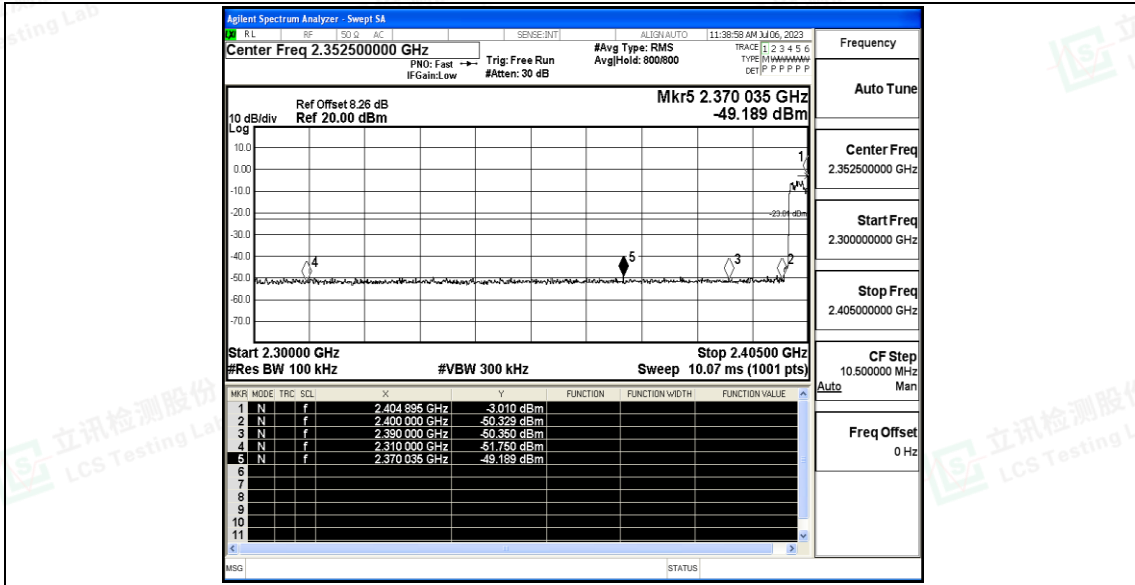


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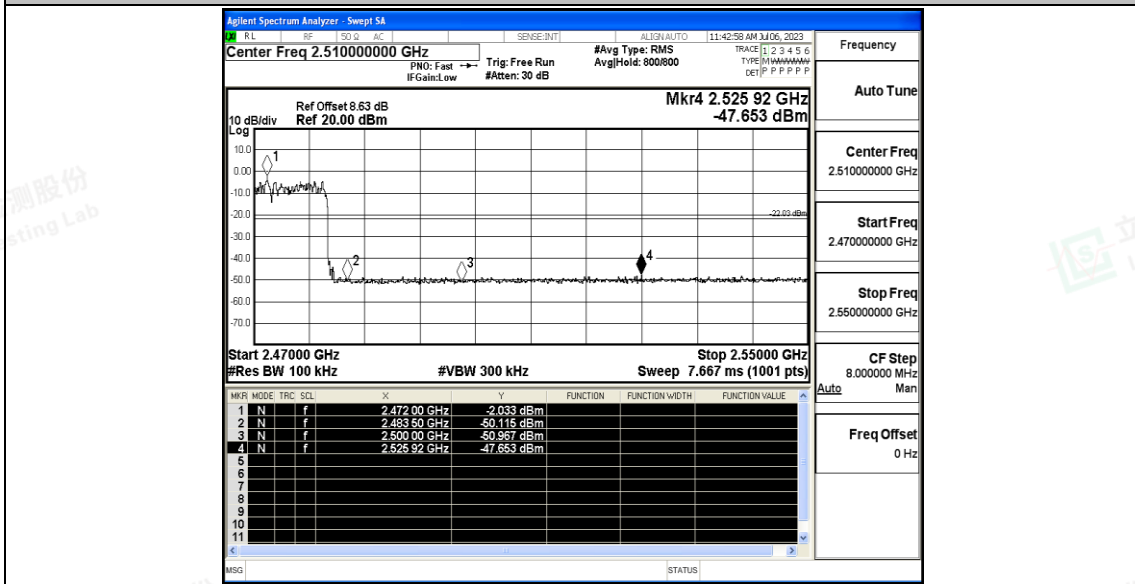
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2DH5\_Ant\_High\_Hop\_2480



3DH5\_Ant\_Low\_2402

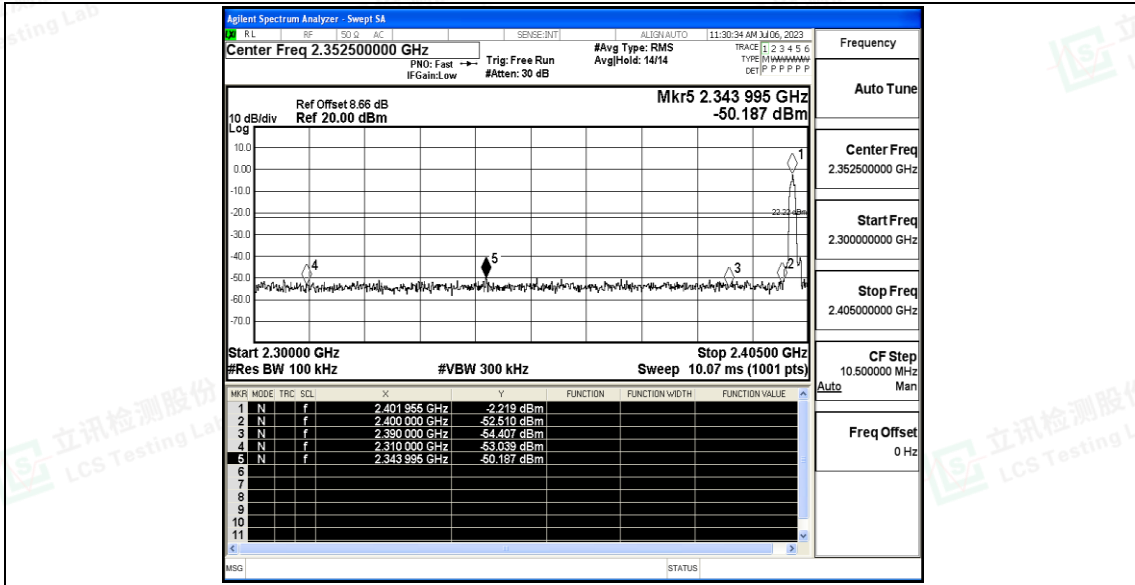


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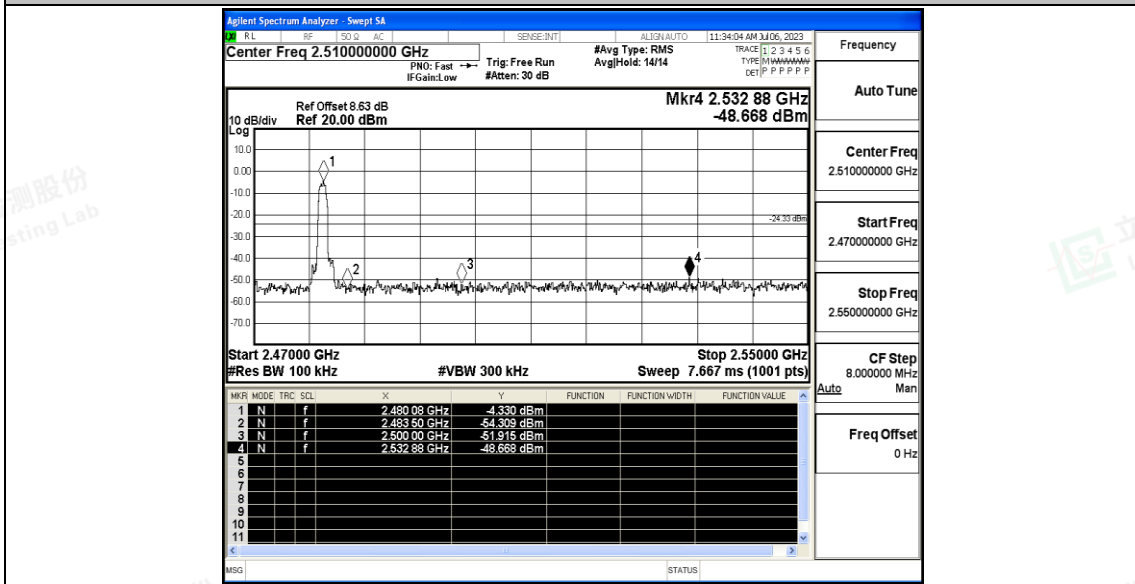
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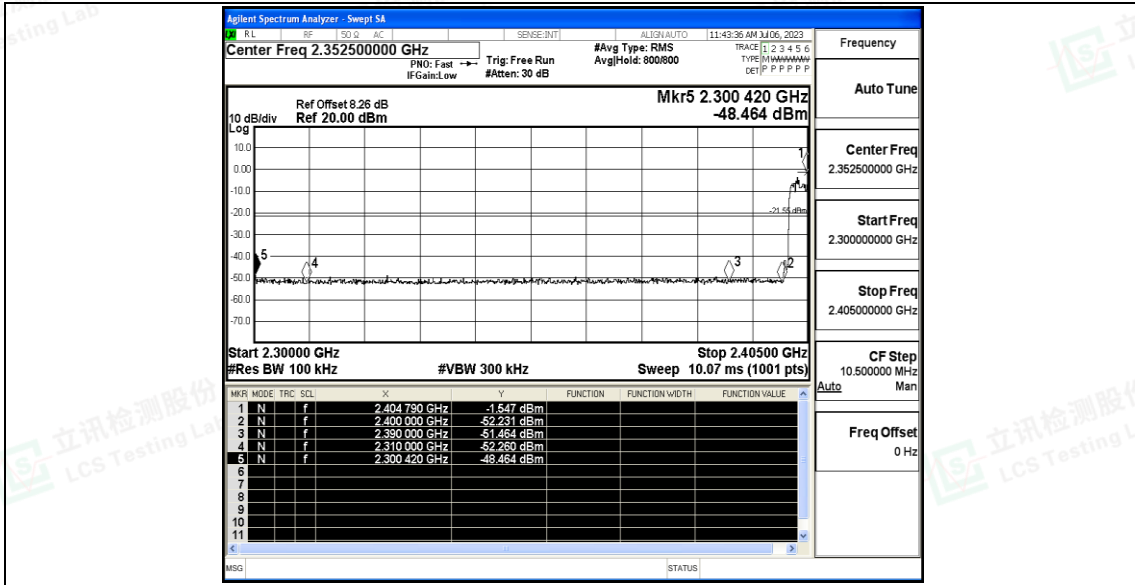
3DH5\_Ant\_High\_2480



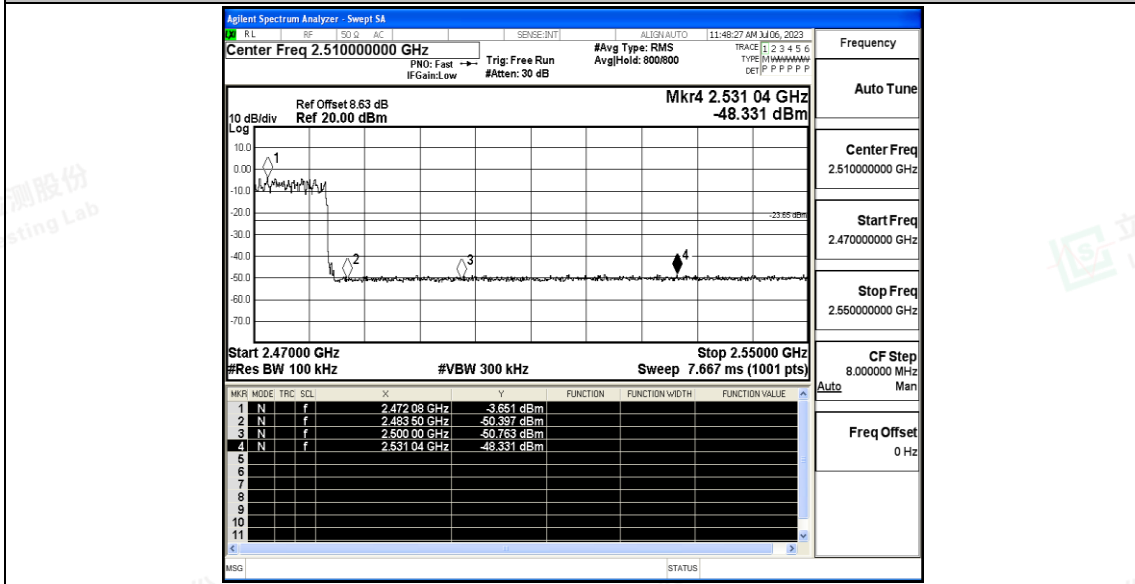
3DH5\_Ant\_Low\_Hop\_2402



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3DH5\_Ant\_High\_Hop\_2480



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### A.7 Conducted Spurious Emission

#### Test Result

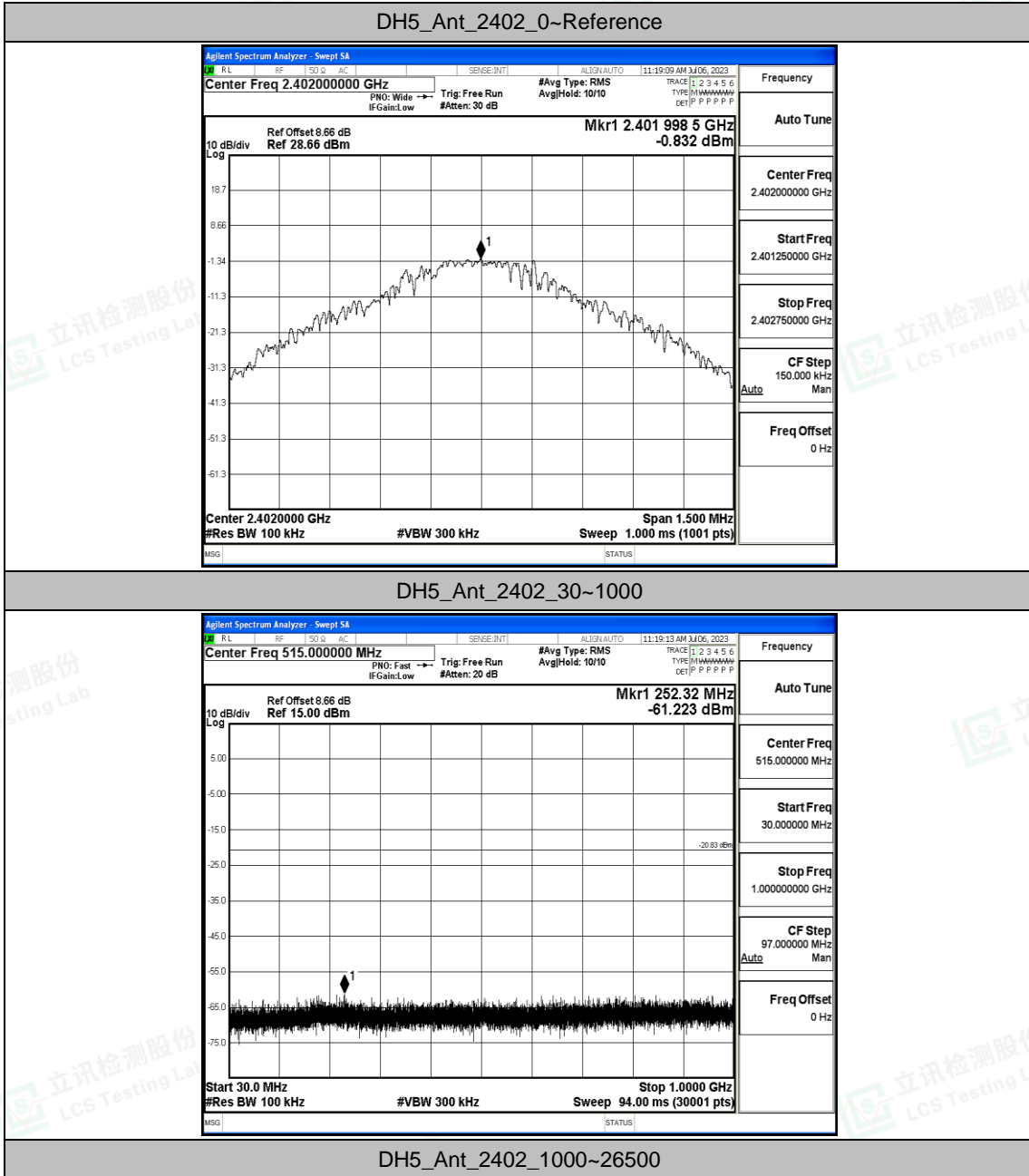
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-61.22	≤-20.83	PASS
			1000~26500	-0.83	-47.08	≤-20.83	PASS
		2441	Reference	-0.22	-0.22	---	PASS
			30~1000	-0.22	-52.21	≤-20.22	PASS
			1000~26500	-0.22	-47.16	≤-20.22	PASS
		2480	Reference	-0.69	-0.69	---	PASS
			30~1000	-0.69	-60.23	≤-20.69	PASS
			1000~26500	-0.69	-45.37	≤-20.69	PASS
2DH5	Ant	2402	Reference	-5.30	-5.30	---	PASS
			30~1000	-5.30	-59.19	≤-25.3	PASS
			1000~26500	-5.30	-47.19	≤-25.3	PASS
		2441	Reference	-5.27	-5.27	---	PASS
			30~1000	-5.27	-58.62	≤-25.27	PASS
			1000~26500	-5.27	-46.41	≤-25.27	PASS
		2480	Reference	-5.62	-5.62	---	PASS
			30~1000	-5.62	-55.07	≤-25.62	PASS
			1000~26500	-5.62	-46.98	≤-25.62	PASS
3DH5	Ant	2402	Reference	-4.17	-4.17	---	PASS
			30~1000	-4.17	-52.7	≤-24.17	PASS
			1000~26500	-4.17	-46.12	≤-24.17	PASS
		2441	Reference	-5.91	-5.91	---	PASS
			30~1000	-5.91	-51.13	≤-25.91	PASS
			1000~26500	-5.91	-46.88	≤-25.91	PASS
		2480	Reference	-2.26	-2.26	---	PASS
			30~1000	-2.26	-52.29	≤-22.26	PASS
			1000~26500	-2.26	-46.26	≤-22.26	PASS



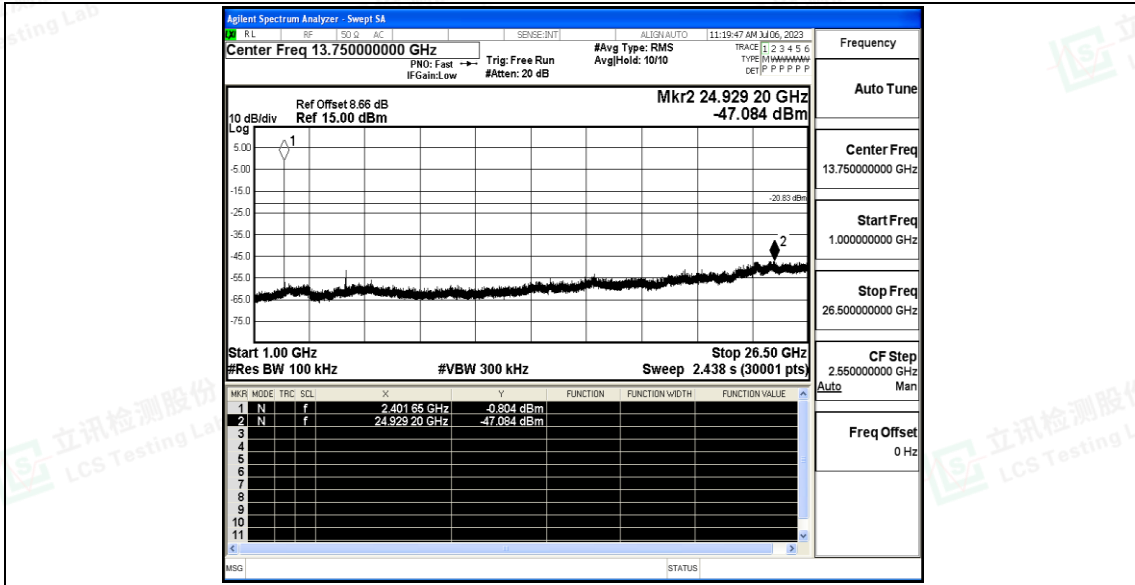
Shenzhen LCS Compliance Testing Laboratory Ltd.  
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 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
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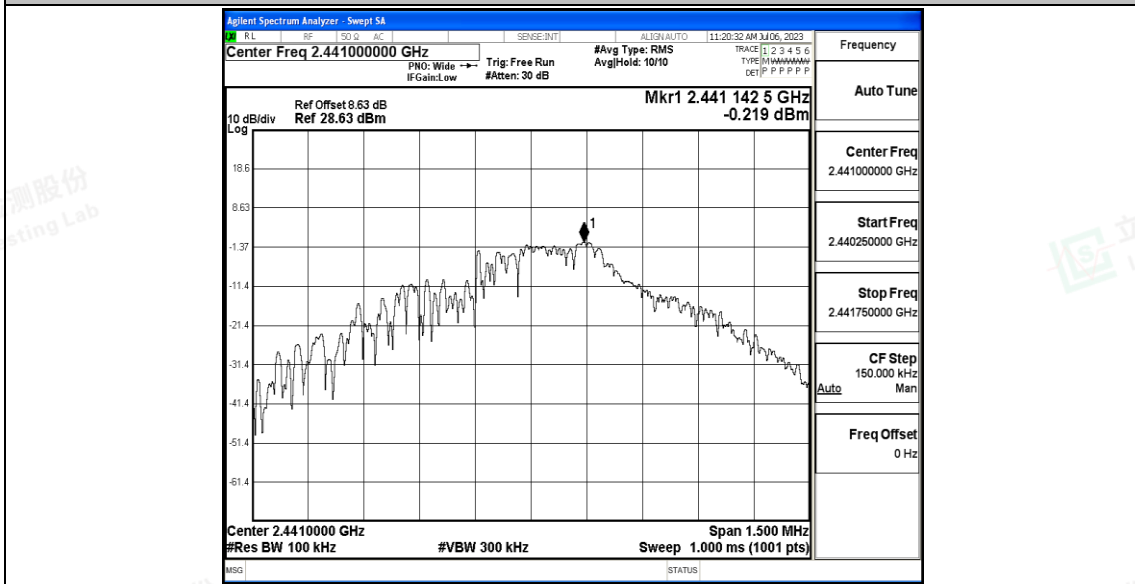
### Test Graphs



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DH5\_Ant\_2441\_0~Reference

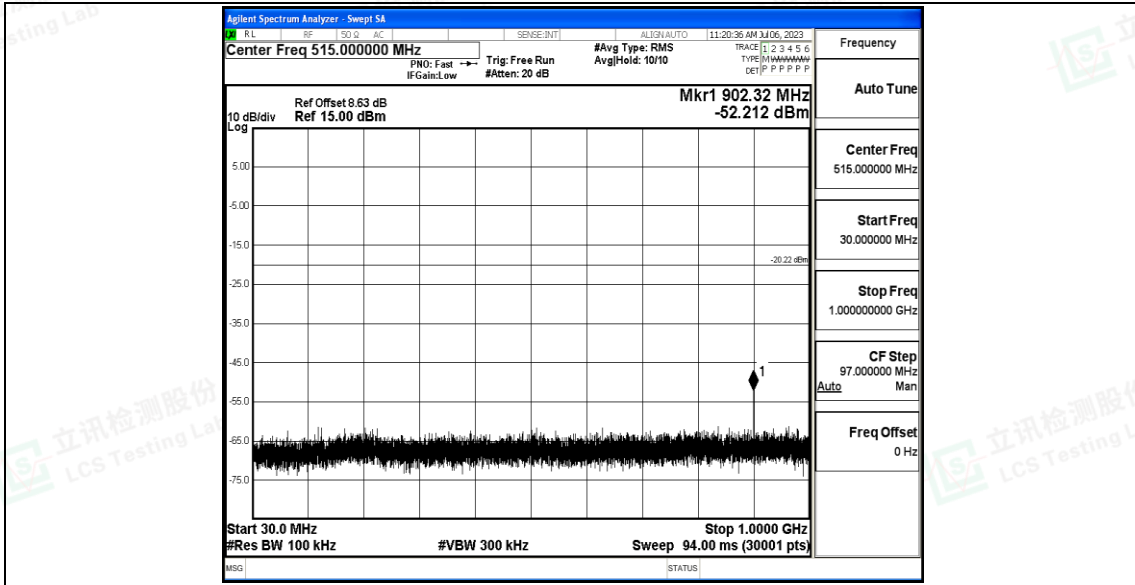


DH5\_Ant\_2441\_30~1000

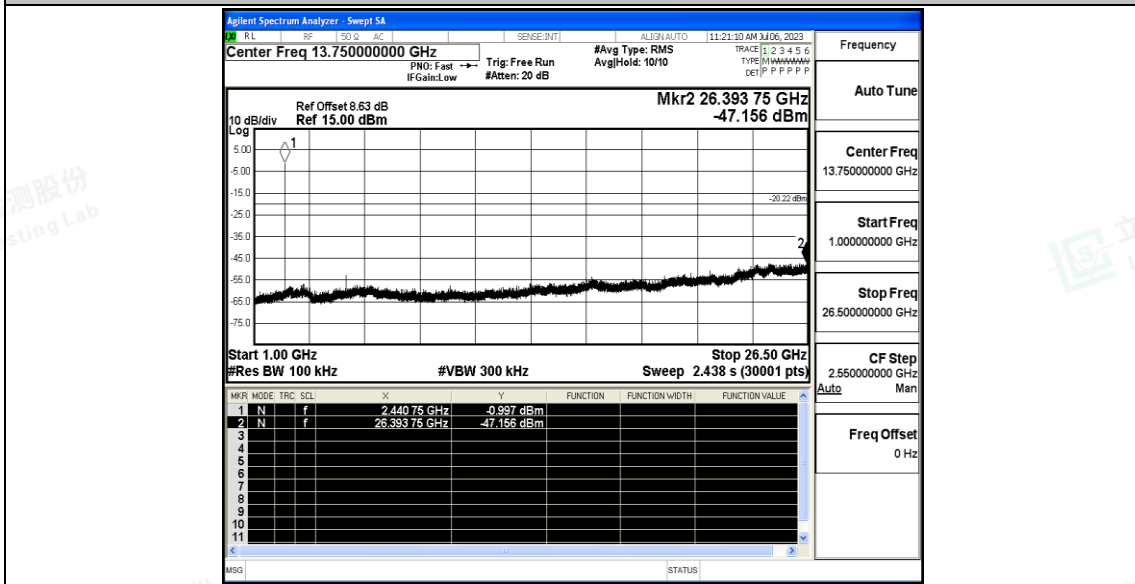


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DH5\_Ant\_2441\_1000~26500



DH5\_Ant\_2480\_0~Reference

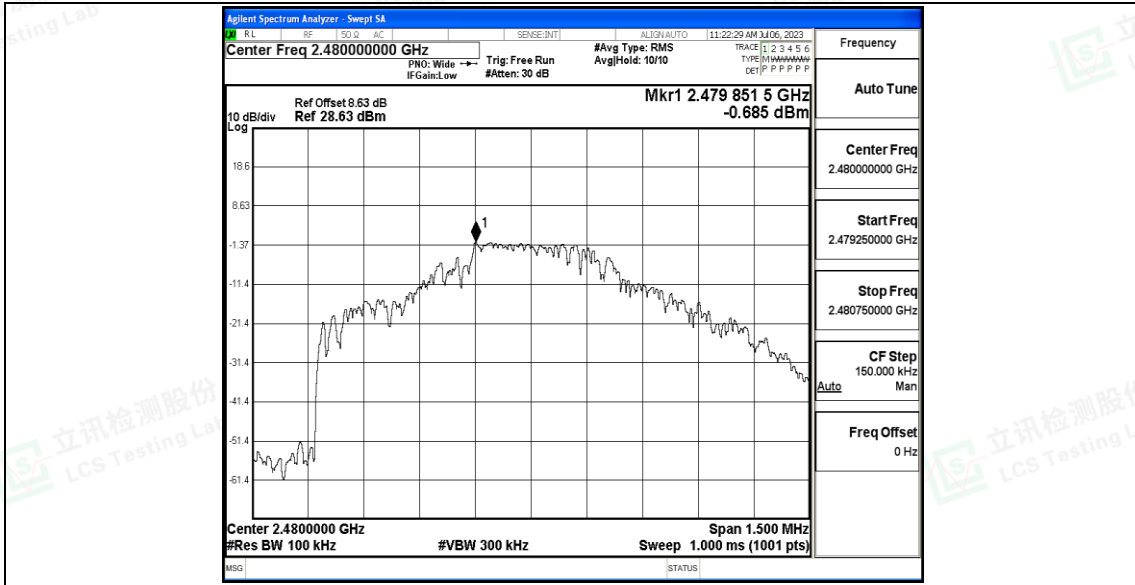


Shenzhen LCS Compliance Testing Laboratory Ltd.

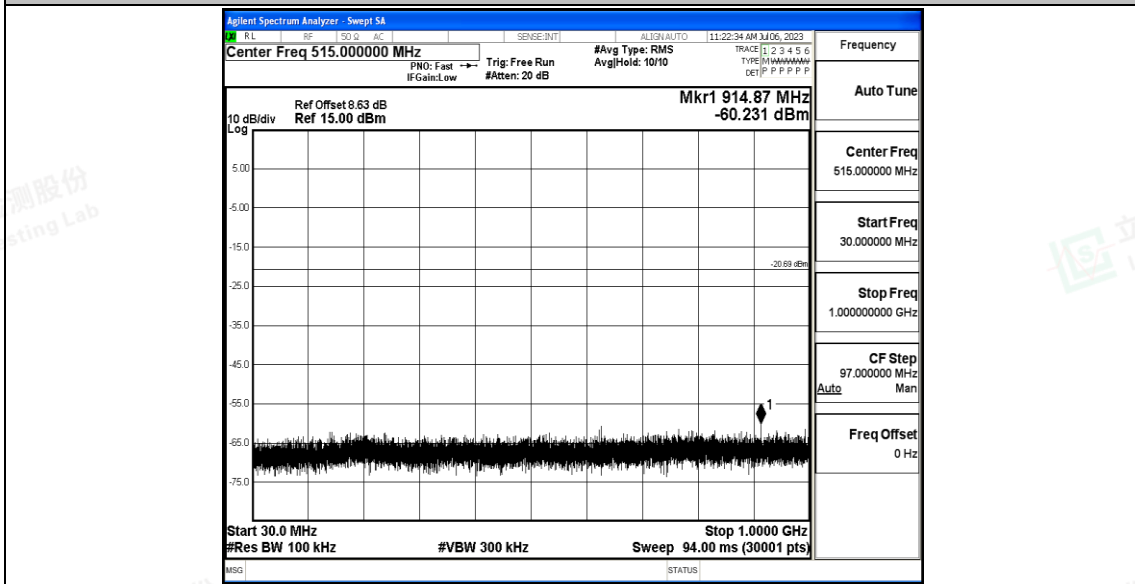
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5\_Ant\_2480\_30~1000



DH5\_Ant\_2480\_1000~26500

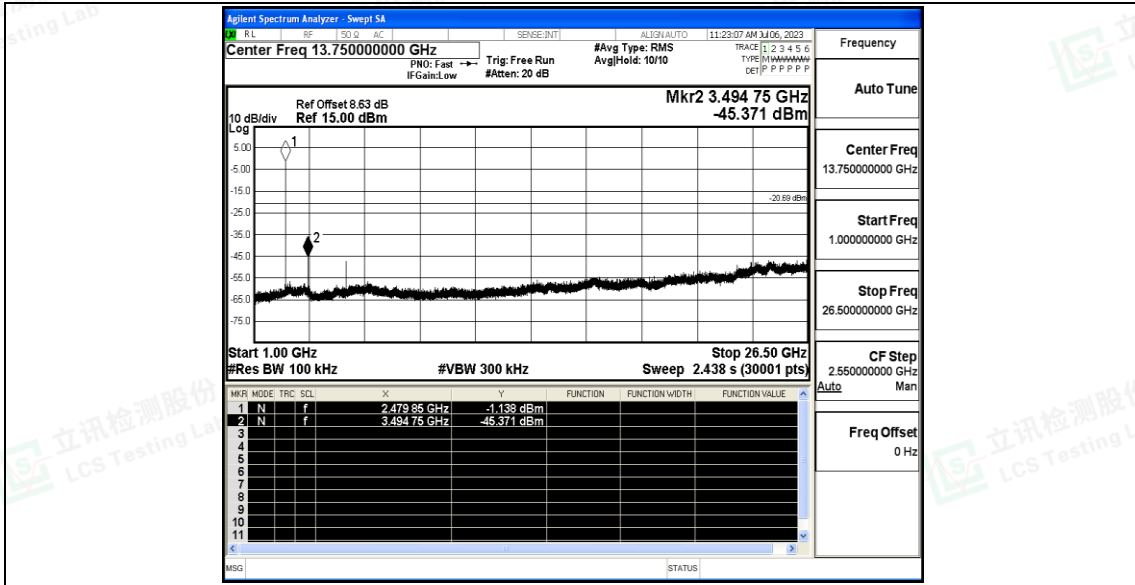


Shenzhen LCS Compliance Testing Laboratory Ltd.

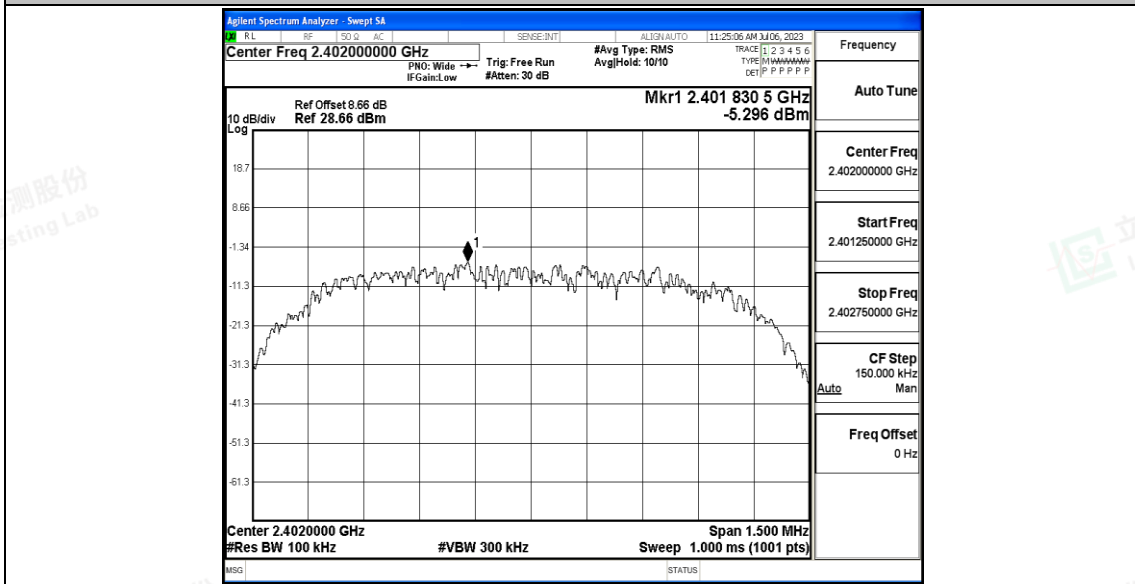
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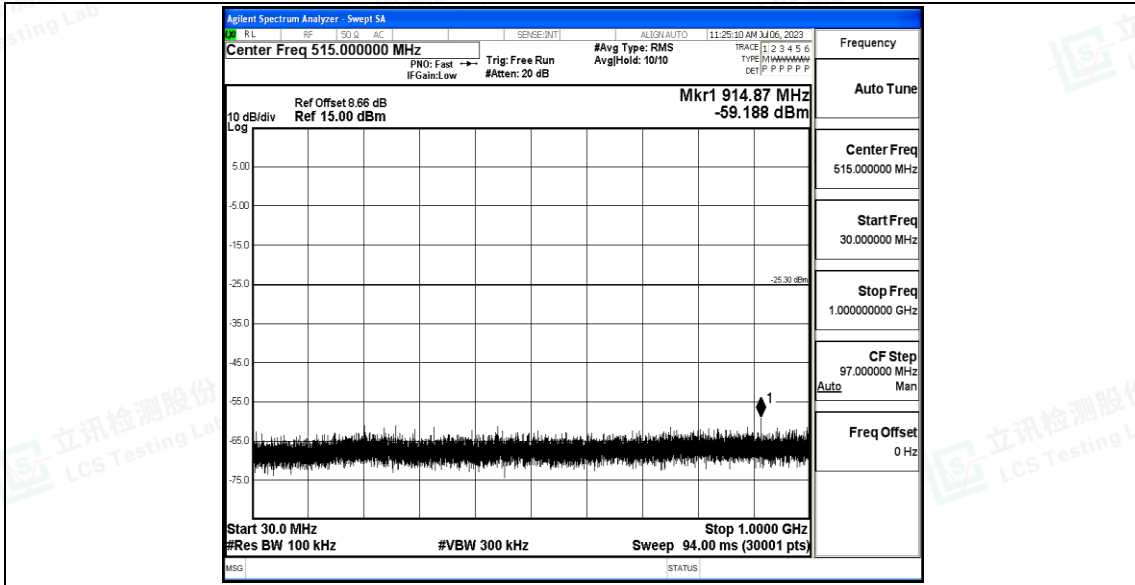
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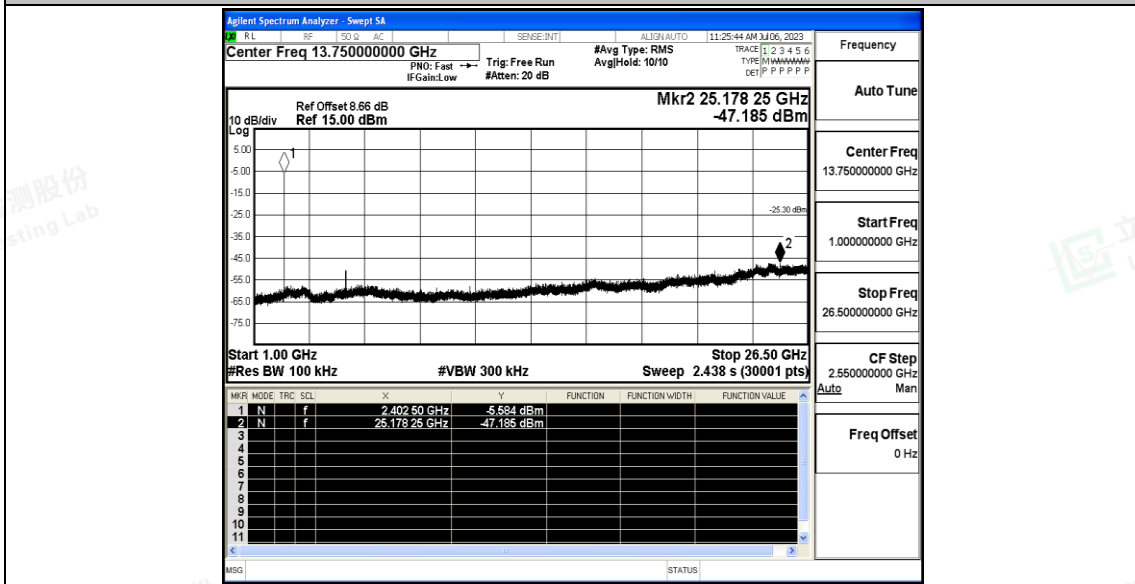
2DH5\_Ant\_2402\_30~1000



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2DH5\_Ant\_2402\_1000~26500



2DH5\_Ant\_2441\_0~Reference

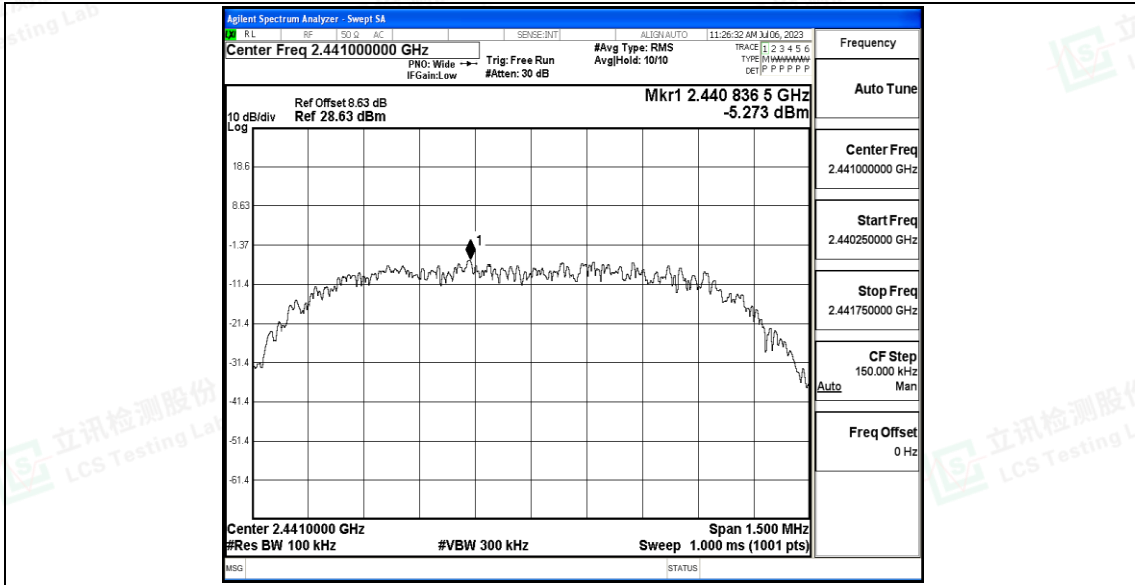


Shenzhen LCS Compliance Testing Laboratory Ltd.

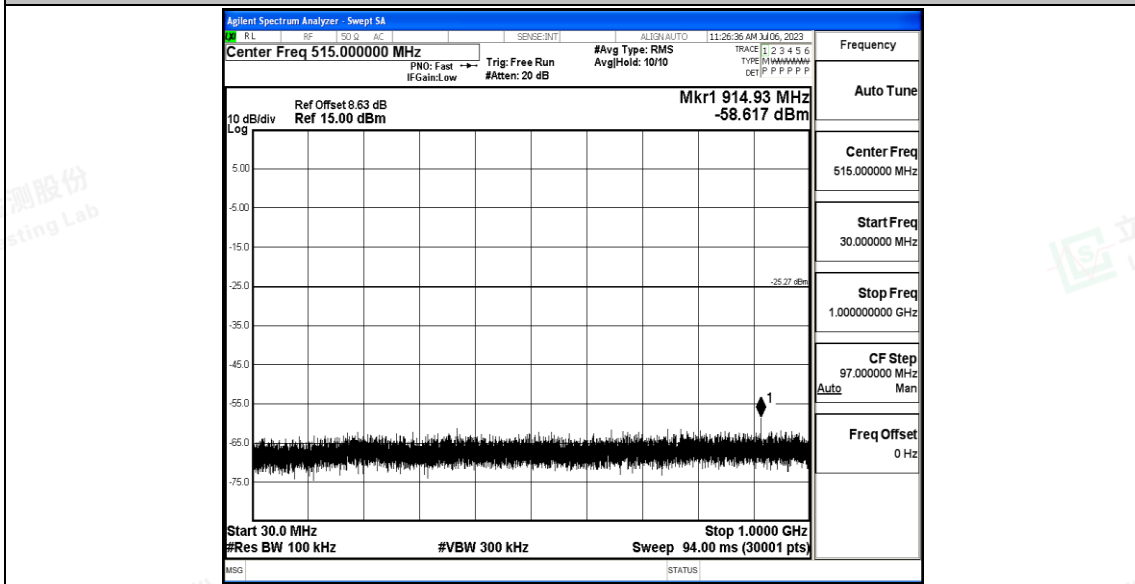
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2DH5\_Ant\_2441\_30~1000



2DH5\_Ant\_2441\_1000~26500

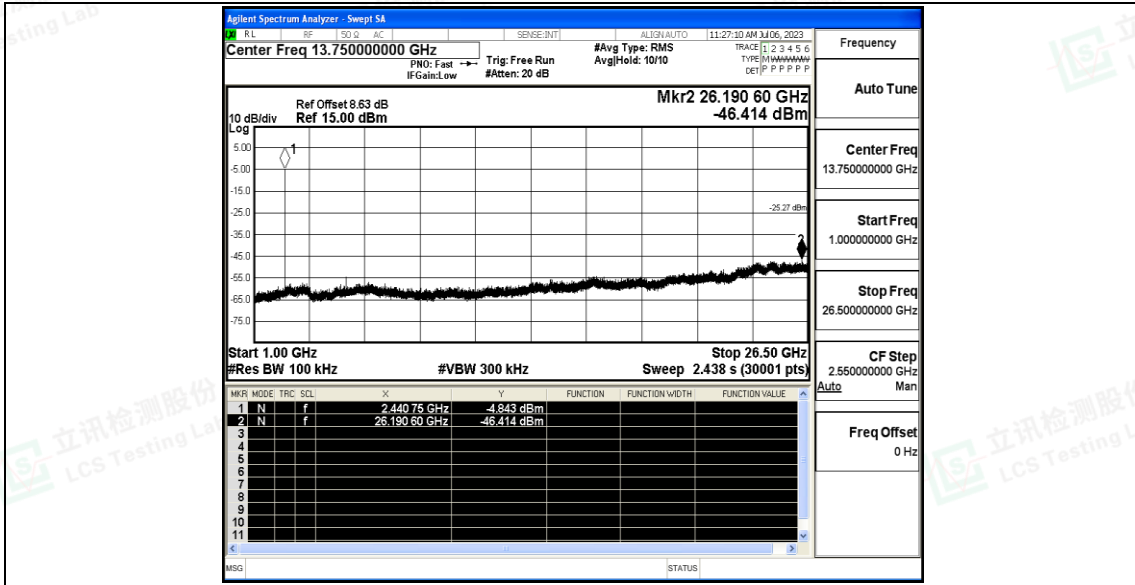


Shenzhen LCS Compliance Testing Laboratory Ltd.

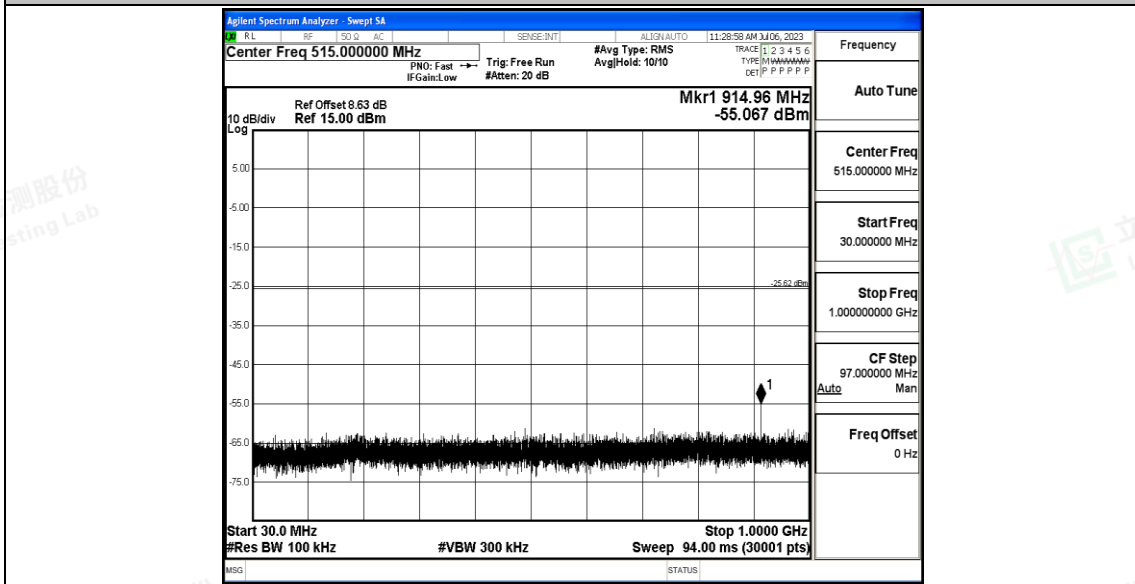
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5\_Ant\_2480\_30~1000



2DH5\_Ant\_2480\_1000~26500

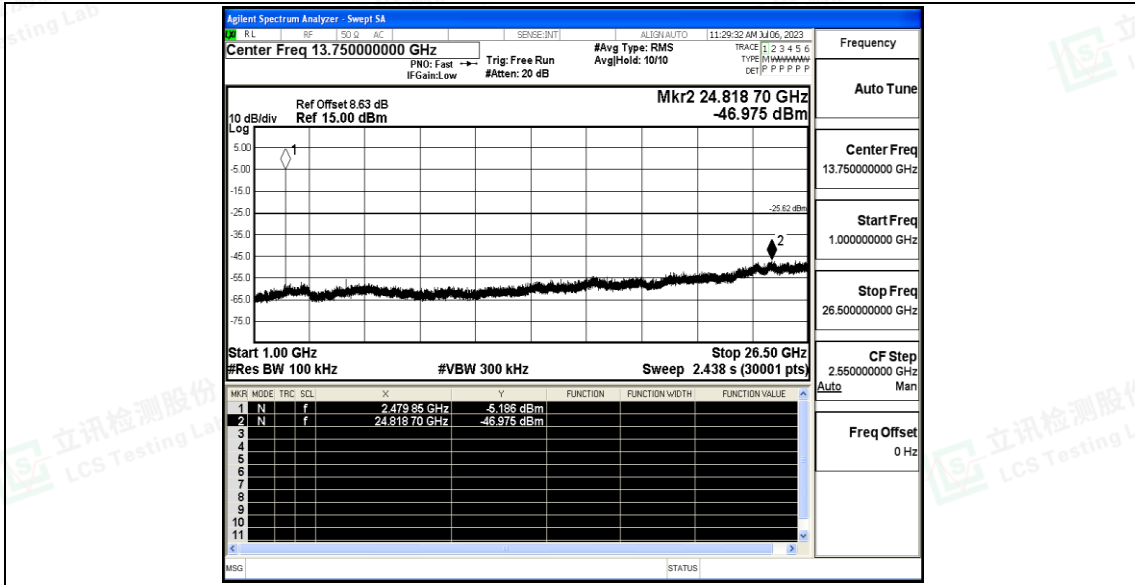


Shenzhen LCS Compliance Testing Laboratory Ltd.

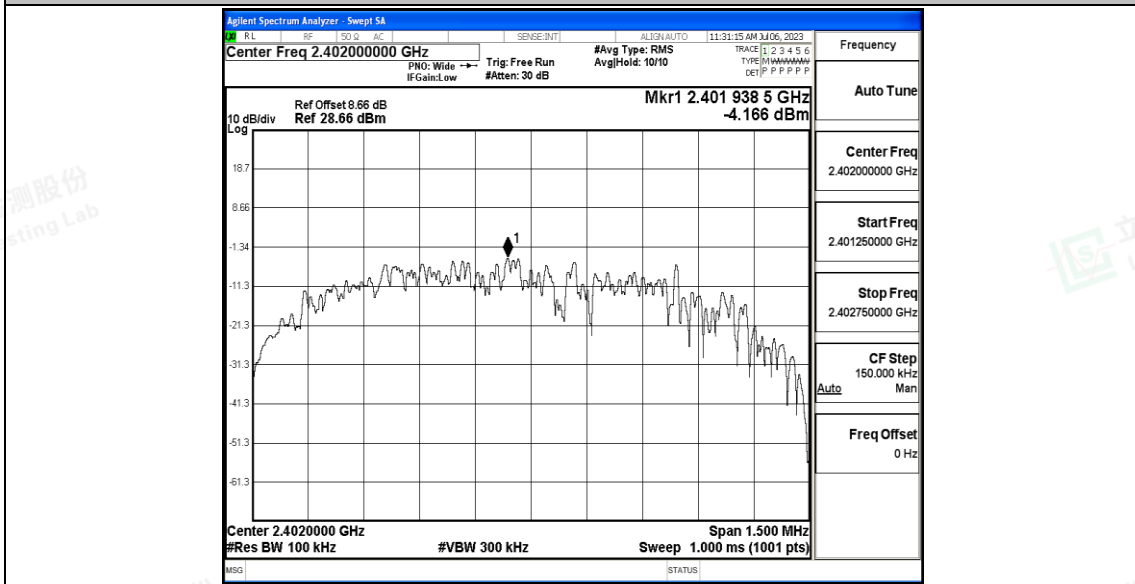
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3DH5\_Ant\_2402\_0~Reference



3DH5\_Ant\_2402\_30~1000

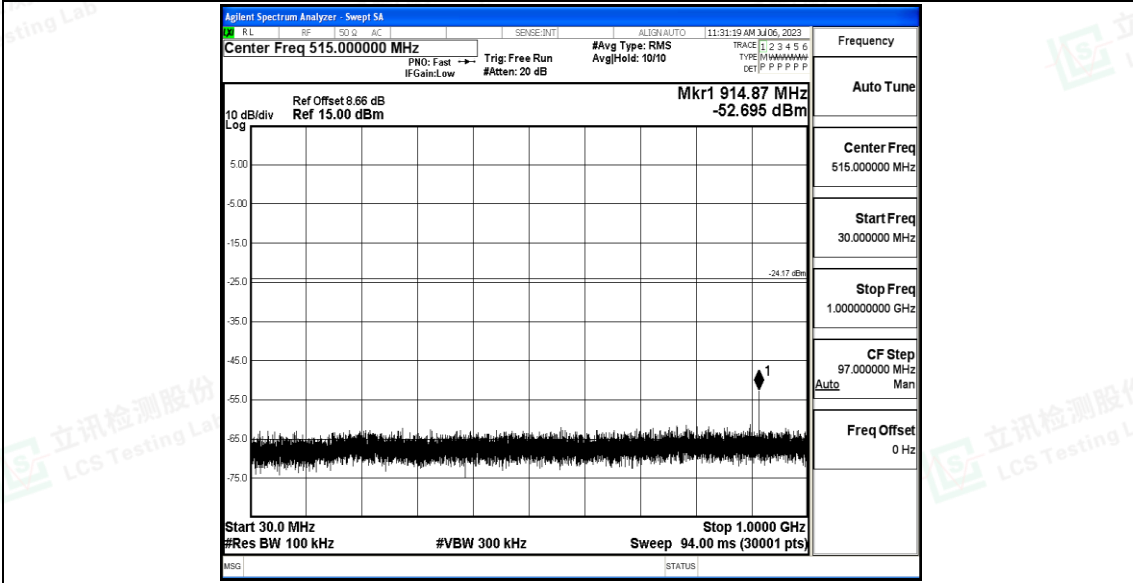


Shenzhen LCS Compliance Testing Laboratory Ltd.

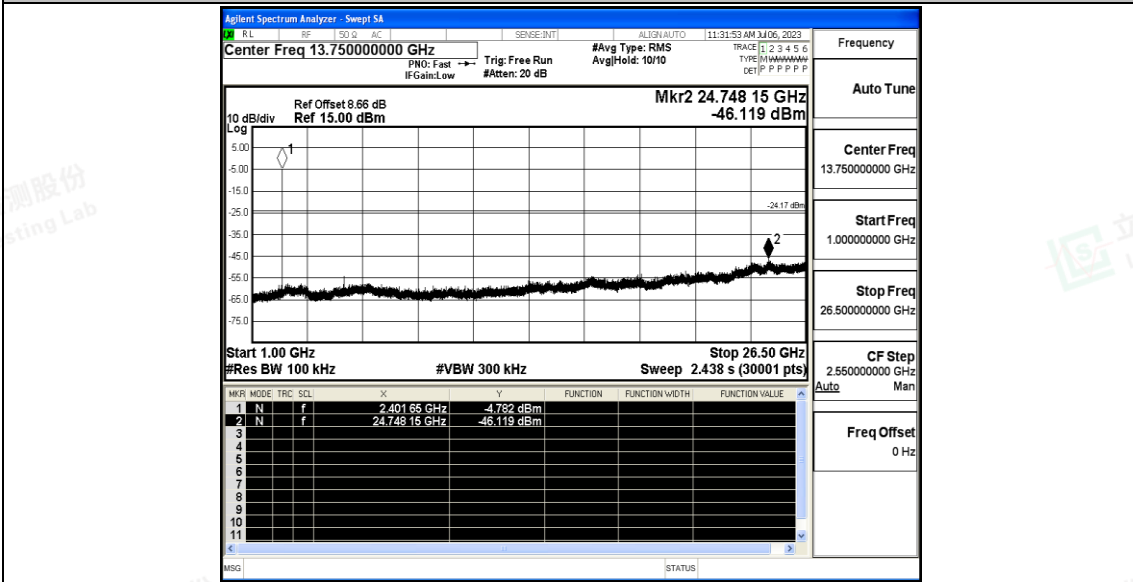
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3DH5\_Ant\_2402\_1000~26500

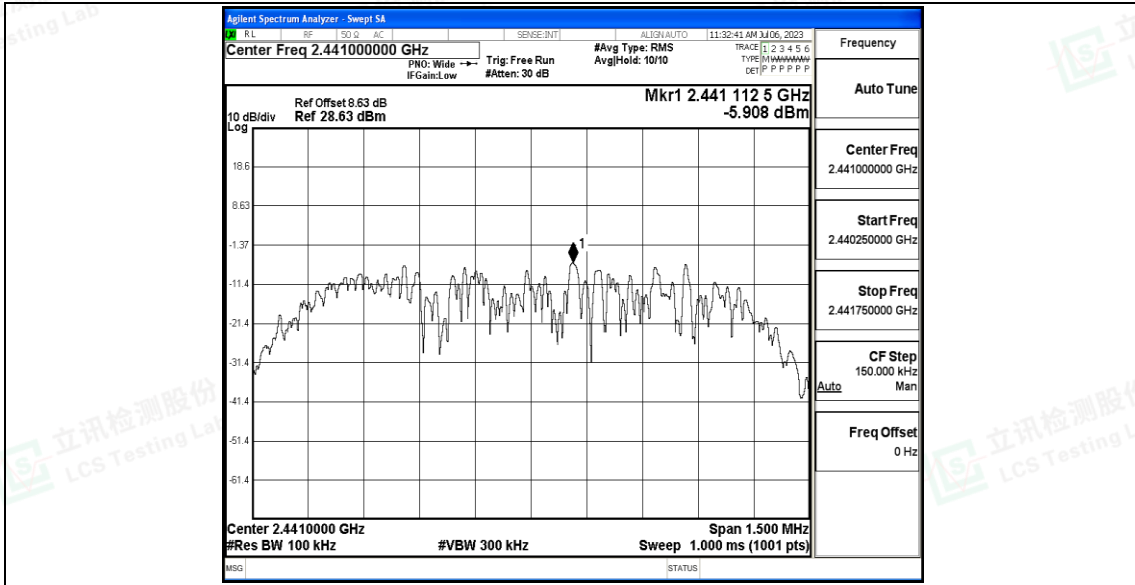


3DH5\_Ant\_2441\_0~Reference

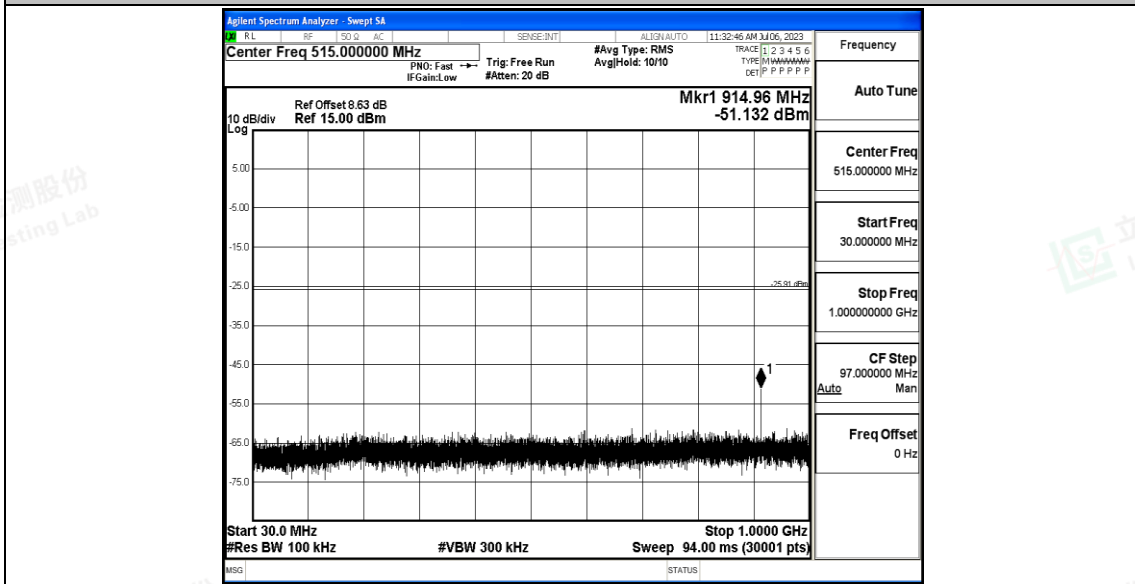


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3DH5\_Ant\_2441\_30~1000



3DH5\_Ant\_2441\_1000~26500

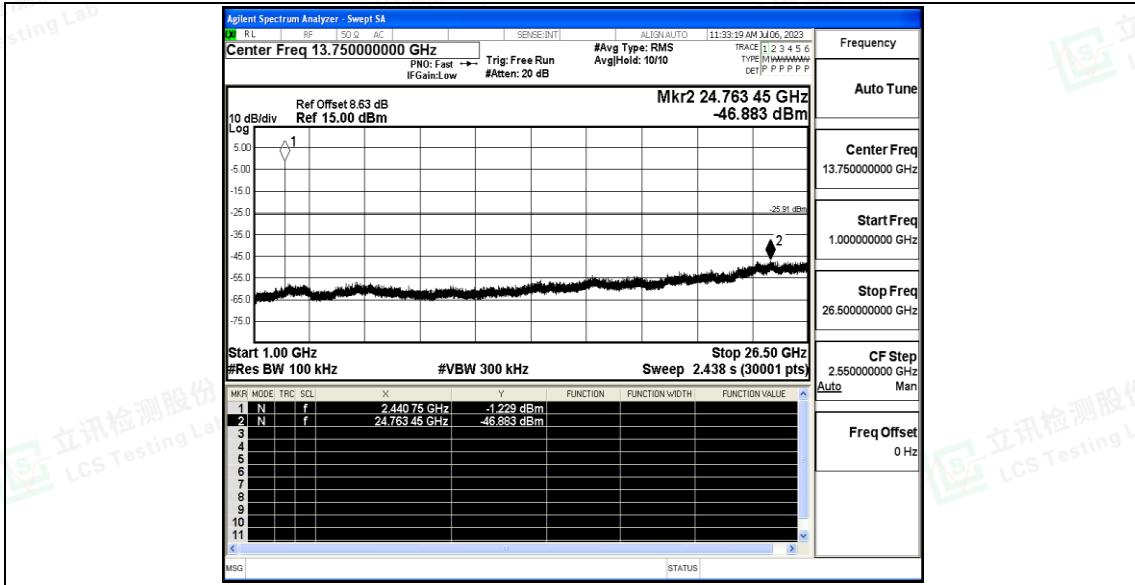


Shenzhen LCS Compliance Testing Laboratory Ltd.

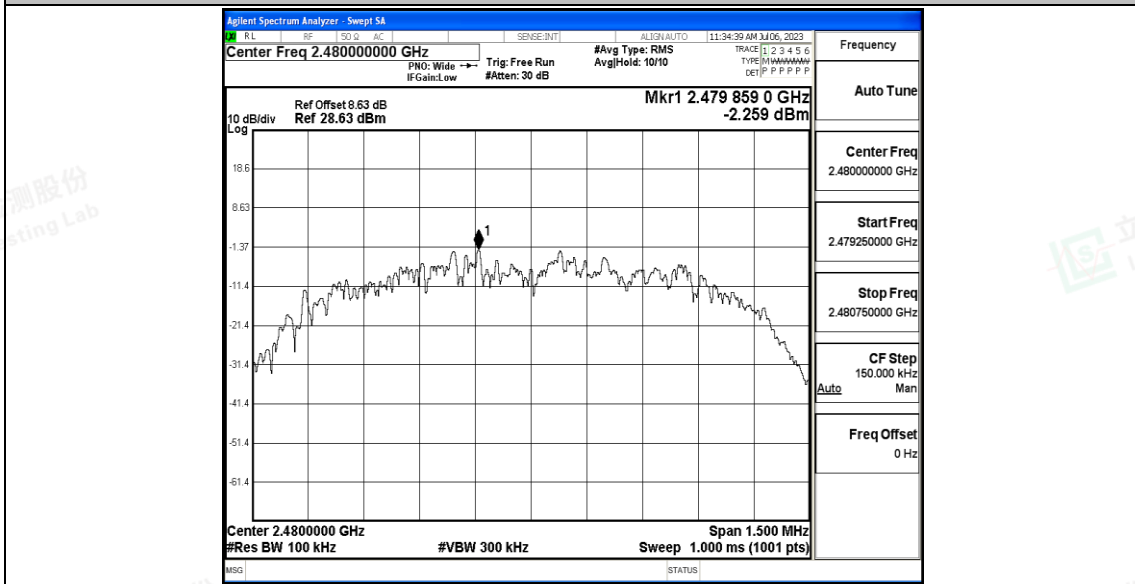
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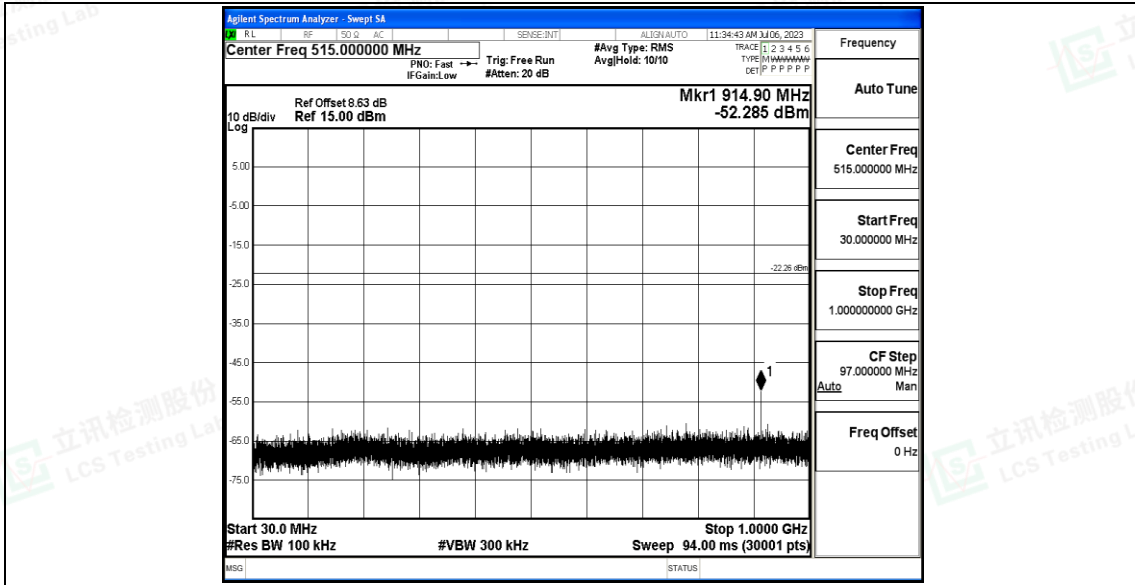
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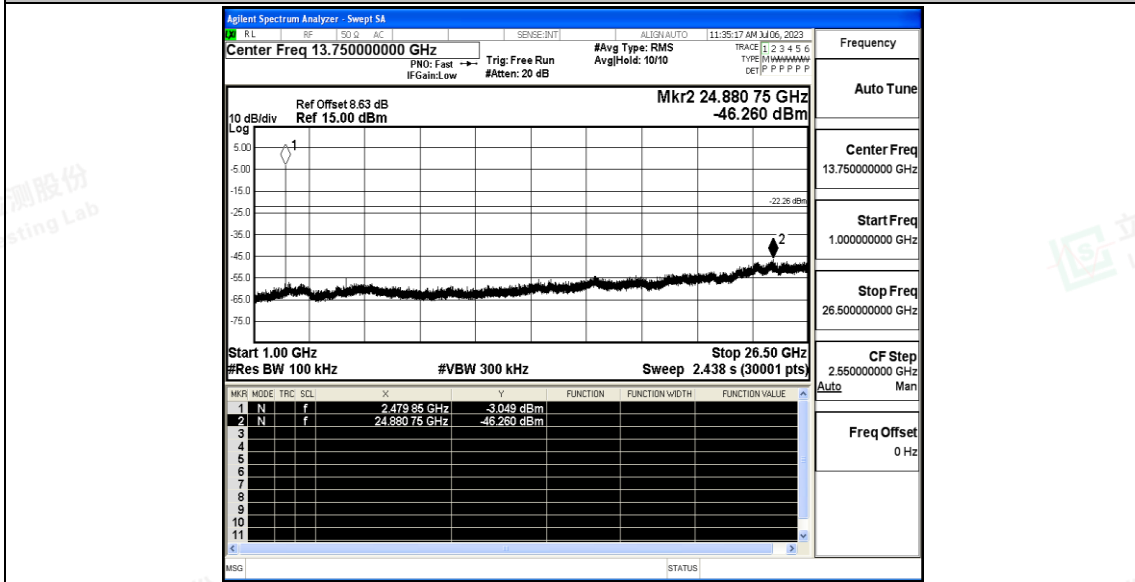
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3DH5\_Ant\_2480\_1000~26500



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### A.8 Emissions in Restricted Bands

#### Test Result

TestMode	Antenna	ChName	Frequenc y [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant	Low	2402	AV	2310.000	-48.33	≤-41.20	46.87	≤54	PASS
				AV	2388.515	-47.8	≤-41.20	47.40	≤54	PASS
				AV	2390.000	-47.81	≤-41.20	47.39	≤54	PASS
				Peak	2310.000	-43.18	≤-21.20	52.02	≤74	PASS
				Peak	2361.320	-39.27	≤-21.20	55.93	≤74	PASS
				Peak	2390.000	-42.81	≤-21.20	52.39	≤74	PASS
		High	2480	AV	2483.500	-47.23	≤-41.20	47.97	≤54	PASS
				AV	2499.360	-47.17	≤-41.20	48.03	≤54	PASS
				AV	2500.000	-47.32	≤-41.20	47.88	≤54	PASS
				Peak	2483.500	-42.74	≤-21.20	52.46	≤74	PASS
				Peak	2494.320	-38.35	≤-21.20	56.85	≤74	PASS
				Peak	2500.000	-42.94	≤-21.20	52.26	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-48.34	≤-41.20	46.86	≤54	PASS
				AV	2384.735	-47.75	≤-41.20	47.45	≤54	PASS
				AV	2390.000	-47.95	≤-41.20	47.25	≤54	PASS
				Peak	2310.000	-44.96	≤-21.20	50.24	≤74	PASS
				Peak	2380.955	-38.58	≤-21.20	56.62	≤74	PASS
				Peak	2390.000	-42.63	≤-21.20	52.57	≤74	PASS
		High	2480	AV	2483.500	-47.21	≤-41.20	47.99	≤54	PASS
				AV	2499.200	-47.14	≤-41.20	48.06	≤54	PASS
				AV	2500.000	-47.34	≤-41.20	47.86	≤54	PASS
				Peak	2483.500	-41.2	≤-21.20	54.00	≤74	PASS
				Peak	2490.800	-38.12	≤-21.20	57.08	≤74	PASS
				Peak	2500.000	-42.56	≤-21.20	52.64	≤74	PASS
3DH5	Ant	Low	2402	AV	2310.000	-48.3	≤-41.20	46.90	≤54	PASS
				AV	2389.355	-47.73	≤-41.20	47.47	≤54	PASS
				AV	2390.000	-47.94	≤-41.20	47.26	≤54	PASS
				Peak	2310.000	-41.22	≤-21.20	53.98	≤74	PASS
				Peak	2380.640	-38.91	≤-21.20	56.29	≤74	PASS
				Peak	2390.000	-43.47	≤-21.20	51.73	≤74	PASS
		High	2480	AV	2483.500	-47.27	≤-41.20	47.93	≤54	PASS
				AV	2498.880	-47.23	≤-41.20	47.97	≤54	PASS
				AV	2500.000	-47.37	≤-41.20	47.83	≤54	PASS
				Peak	2483.500	-42.73	≤-21.20	52.47	≤74	PASS



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			Peak	2494.880	-39.18	≤-21.20	56.02	≤74	PASS
			Peak	2500.000	-42.18	≤-21.20	53.02	≤74	PASS

Note:

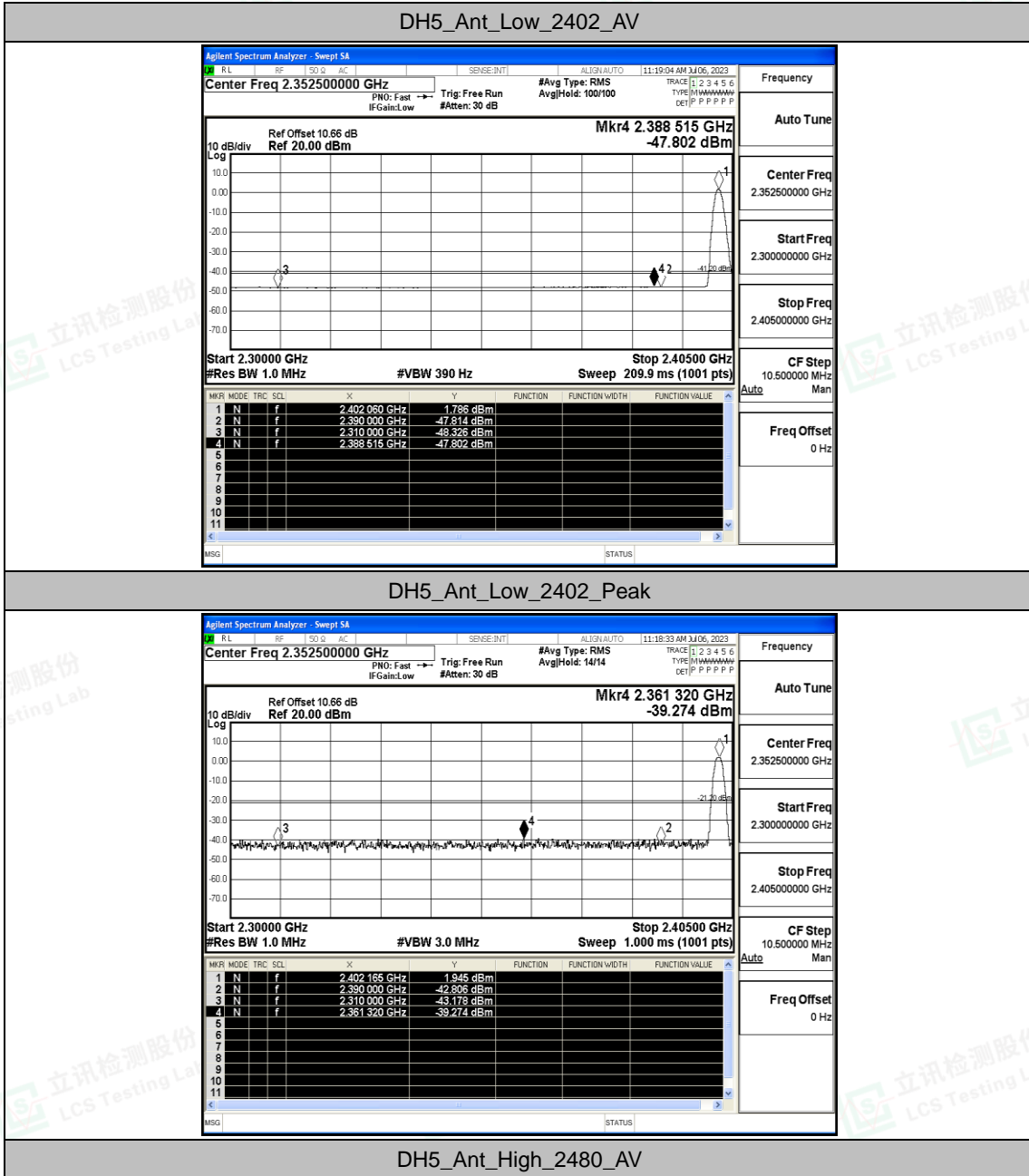
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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### Test Graphs

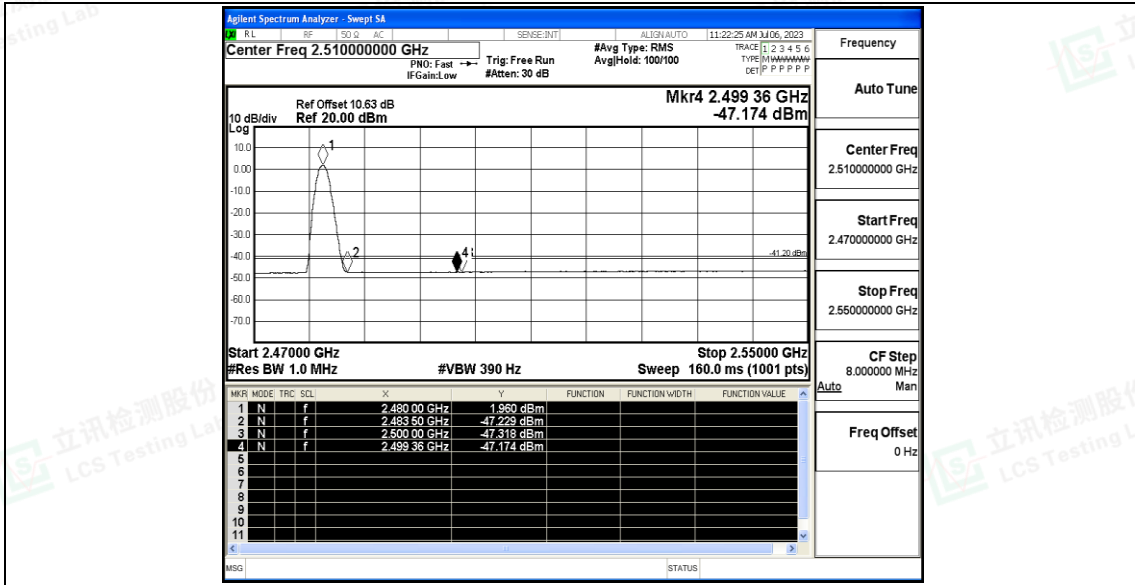


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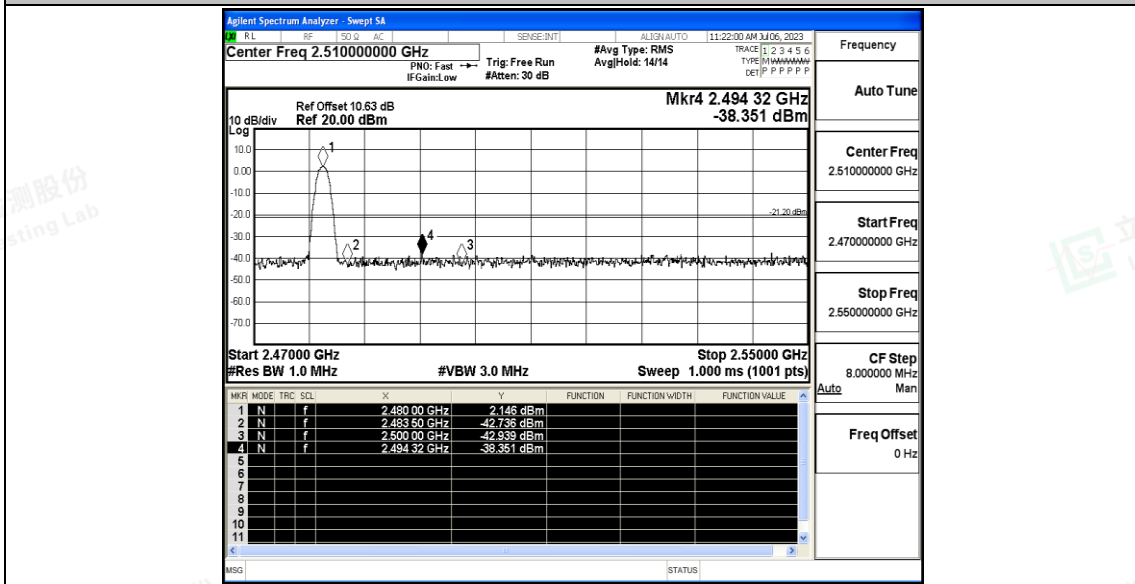
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5\_Ant\_High\_2480\_Peak



2DH5\_Ant\_Low\_2402\_AV

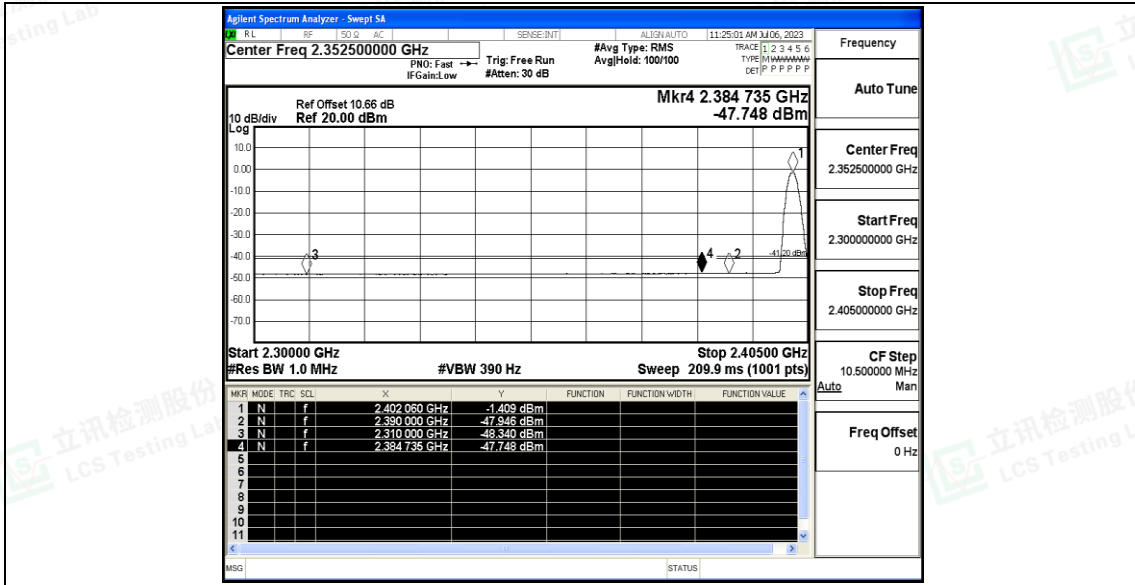


Shenzhen LCS Compliance Testing Laboratory Ltd.

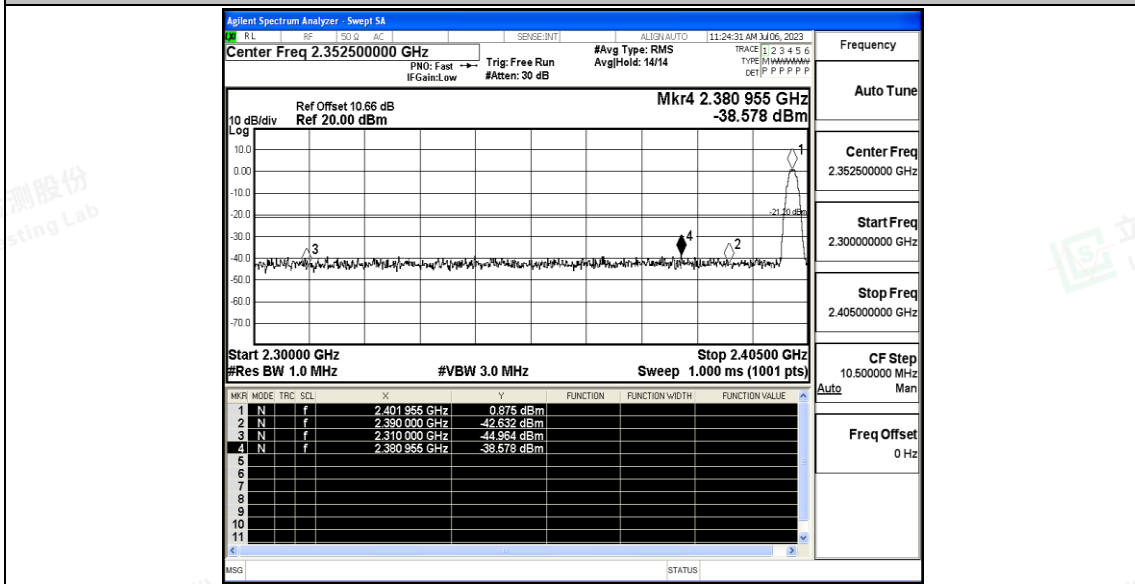
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5\_Ant\_Low\_2402\_Peak



2DH5\_Ant\_High\_2480\_AV



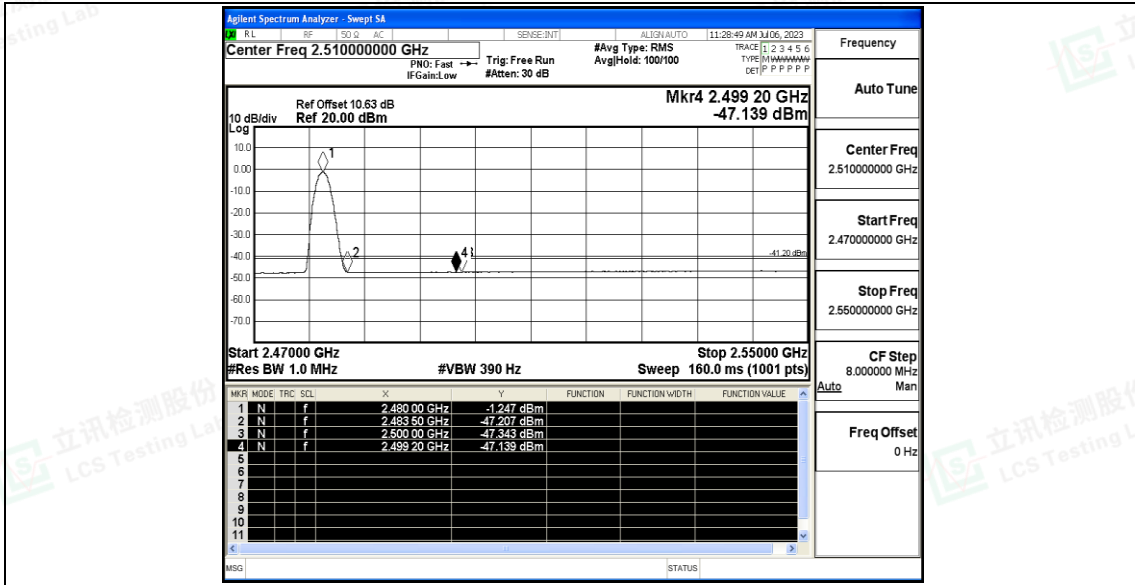
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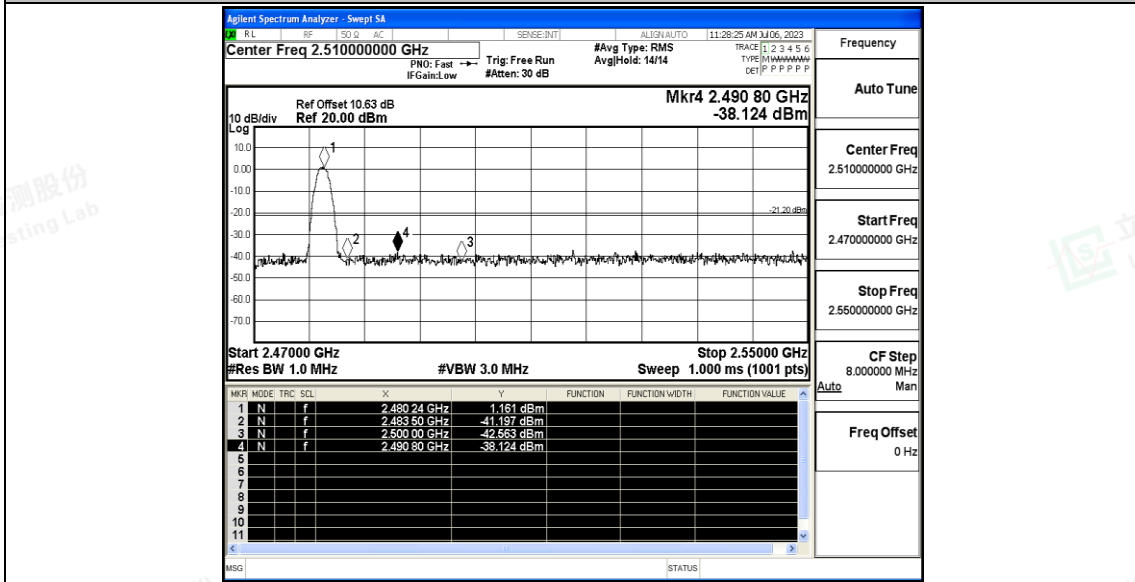
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2DH5\_Ant\_High\_2480\_Peak



3DH5\_Ant\_Low\_2402\_AV

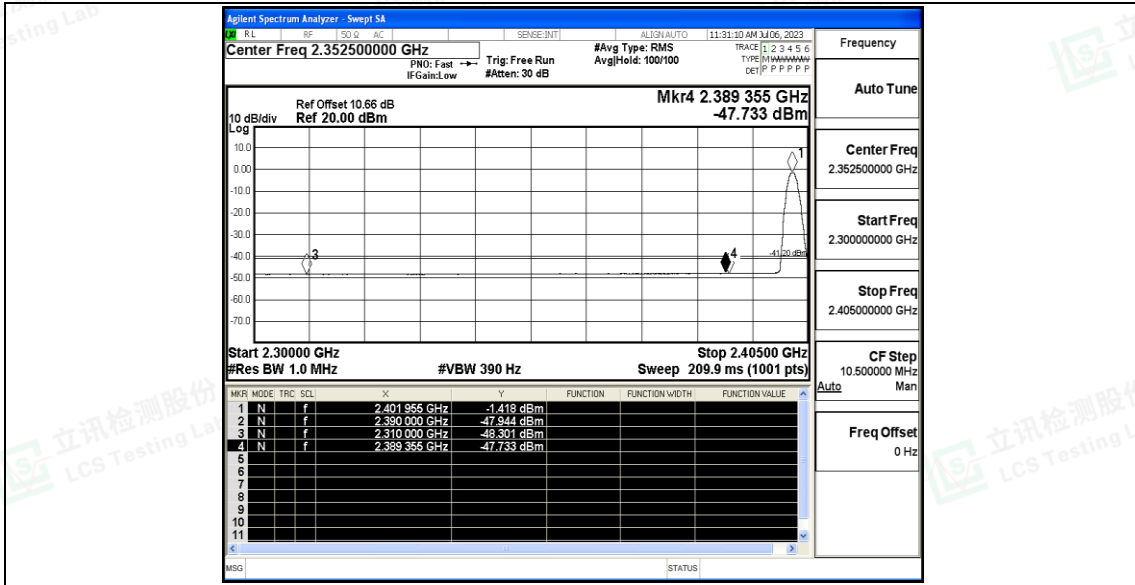


Shenzhen LCS Compliance Testing Laboratory Ltd.

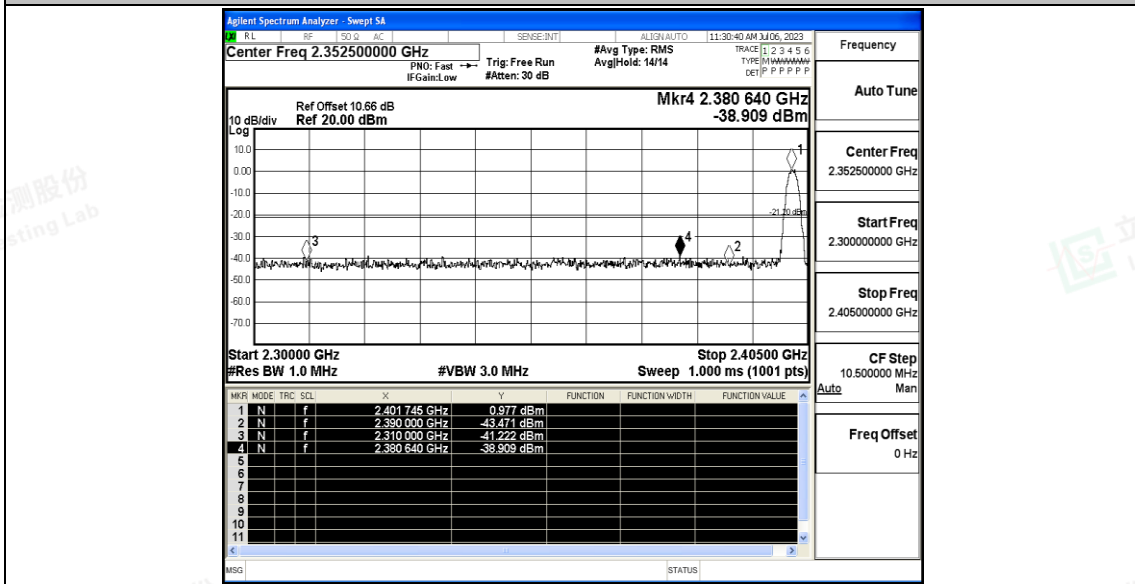
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5\_Ant\_Low\_2402\_Peak



3DH5\_Ant\_High\_2480\_AV

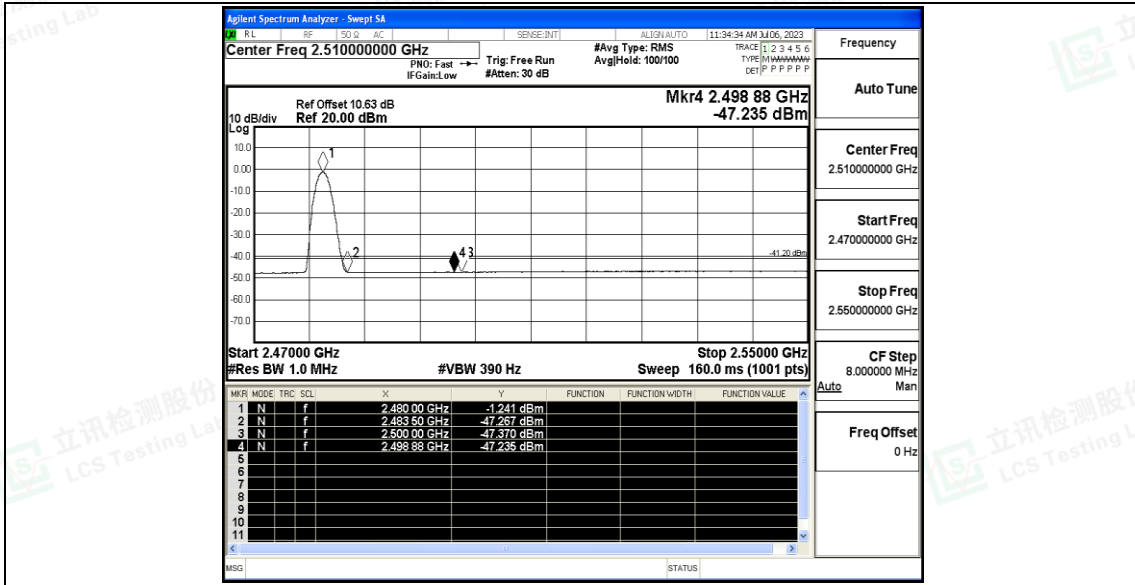


Shenzhen LCS Compliance Testing Laboratory Ltd.

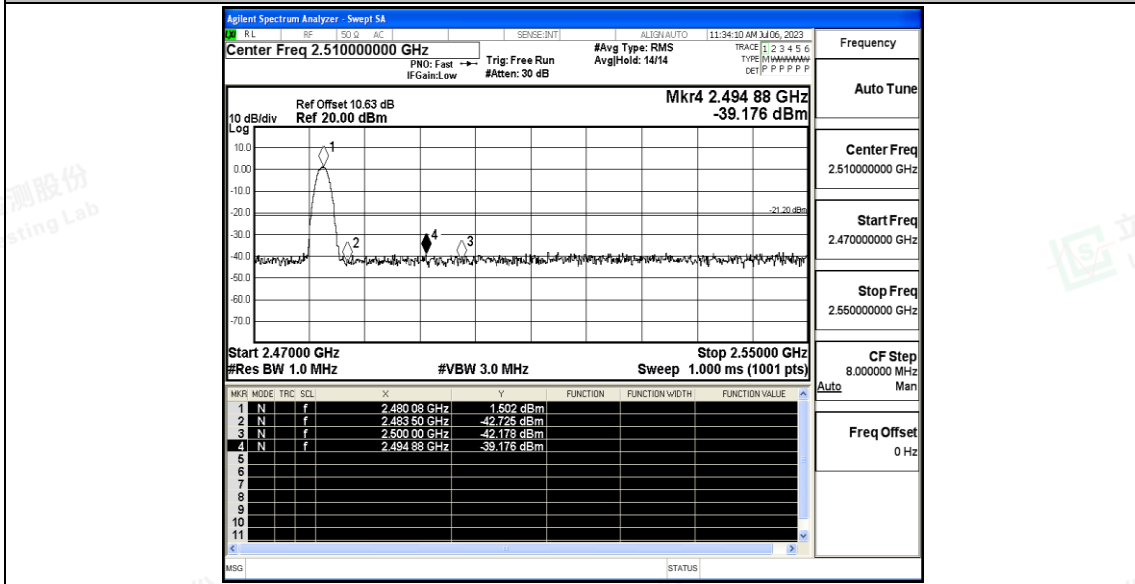
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3DH5\_Ant\_High\_2480\_Peak



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