



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Speaker

Test Model: BTS-0047

Environmental Conditions

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



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A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant	2402	1.059	2401.484	2402.543	PASS
		2441	1.047	2440.502	2441.549	PASS
		2480	1.074	2479.481	2480.555	PASS
2DH5	Ant	2402	1.335	2401.361	2402.696	PASS
		2441	1.332	2440.358	2441.690	PASS
		2480	1.341	2479.355	2480.696	PASS
3DH5	Ant	2402	1.308	2401.379	2402.687	PASS
		2441	1.308	2440.373	2441.681	PASS
		2480	1.308	2479.376	2480.684	PASS



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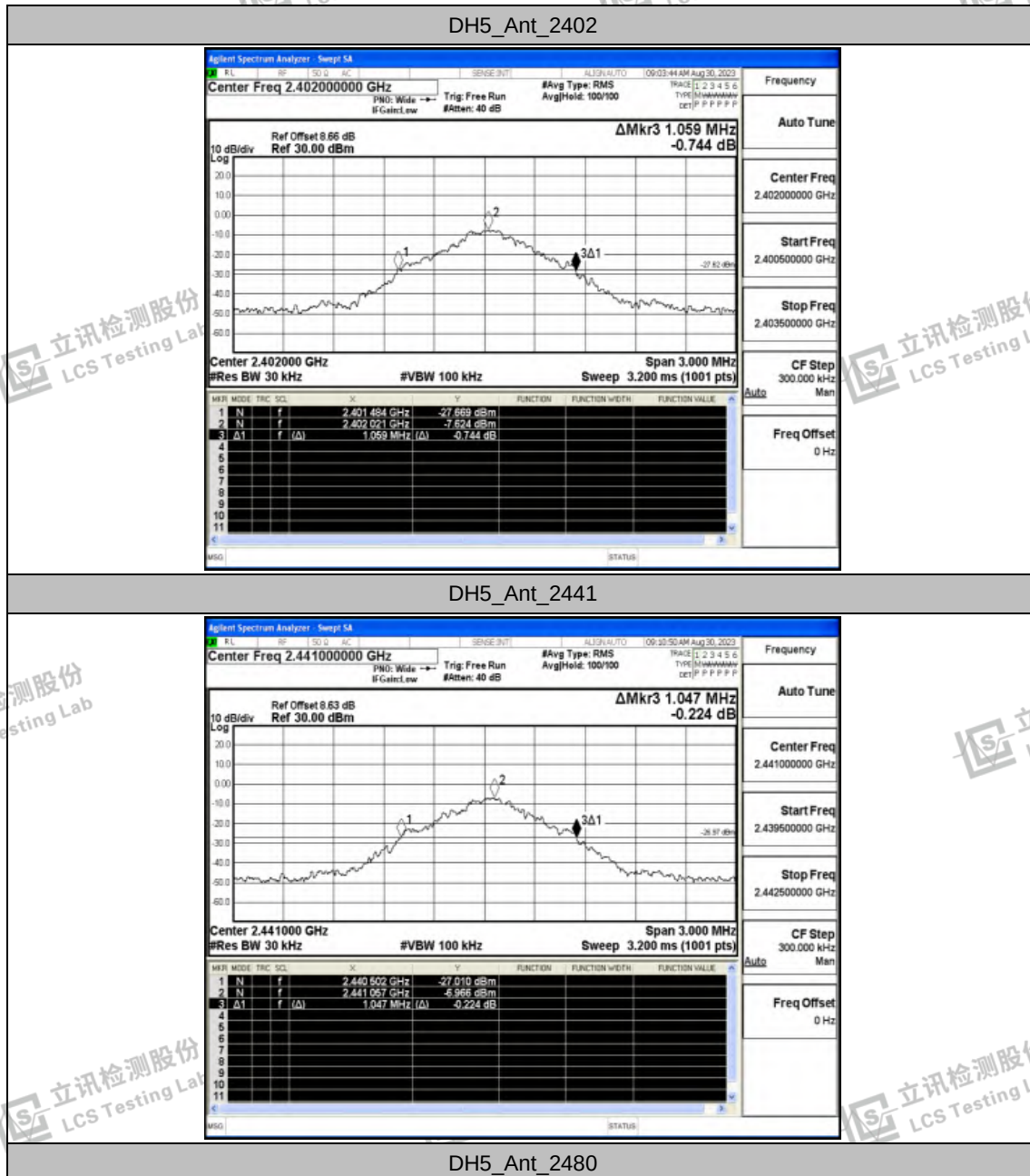
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Test Graphs

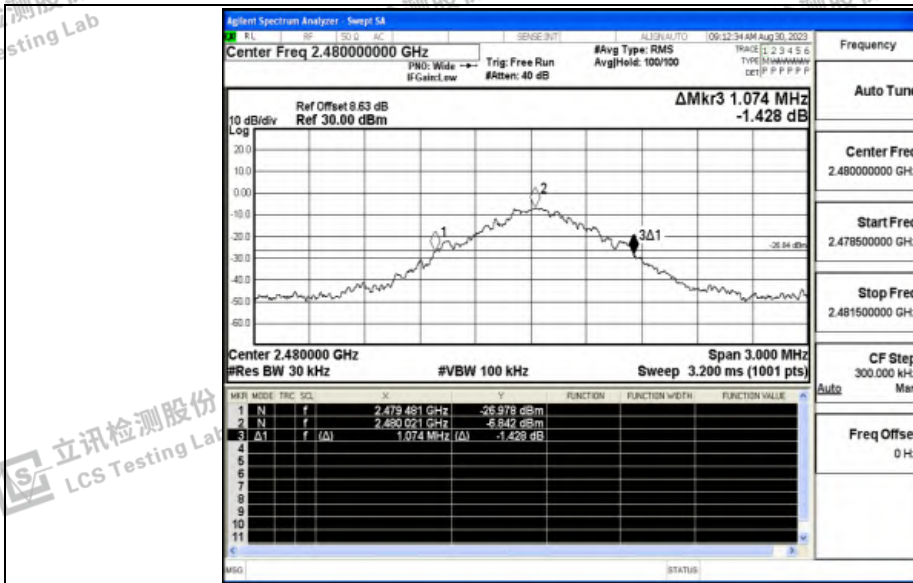


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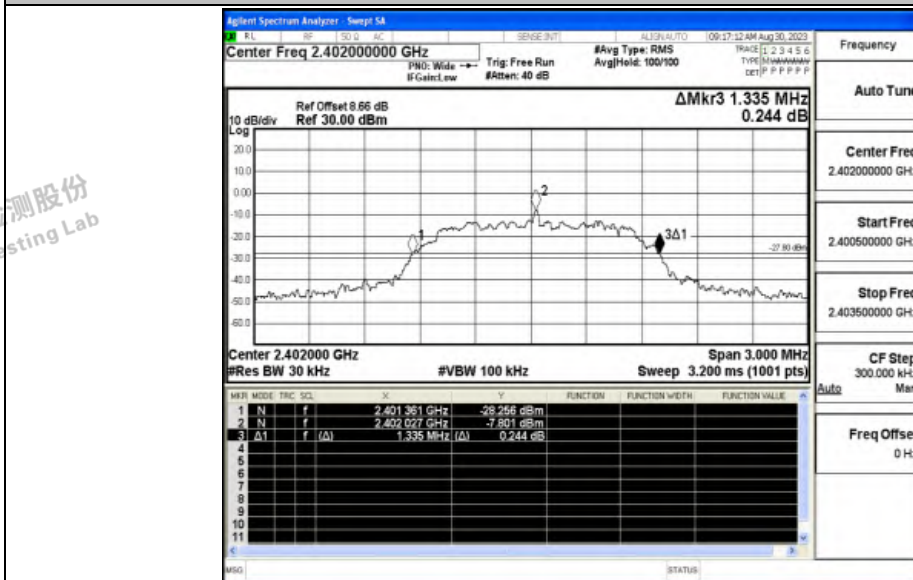
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2DH5_Ant_2402



2DH5_Ant_2441

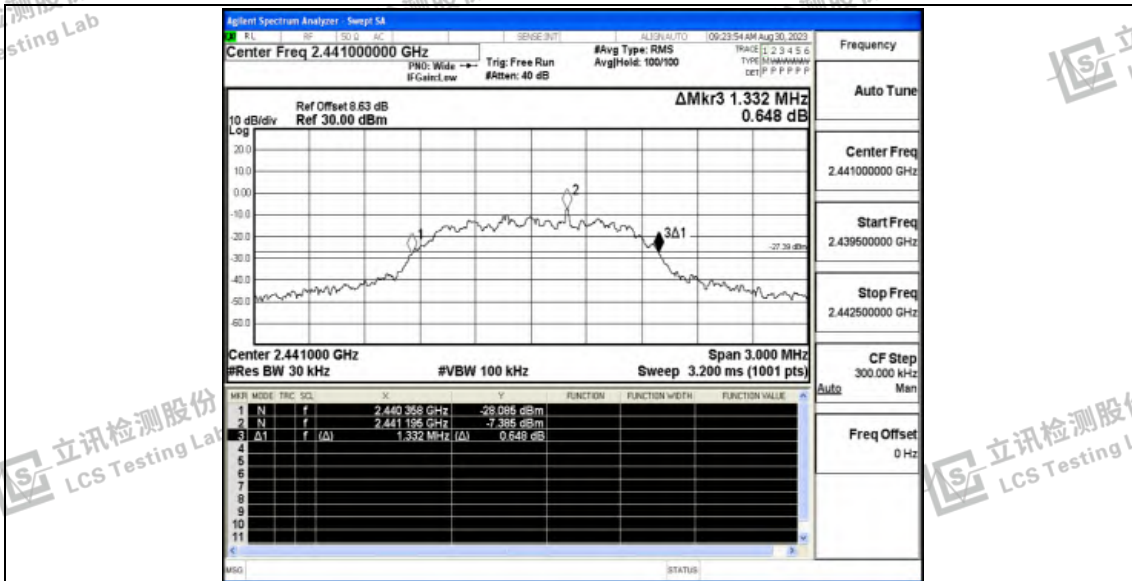


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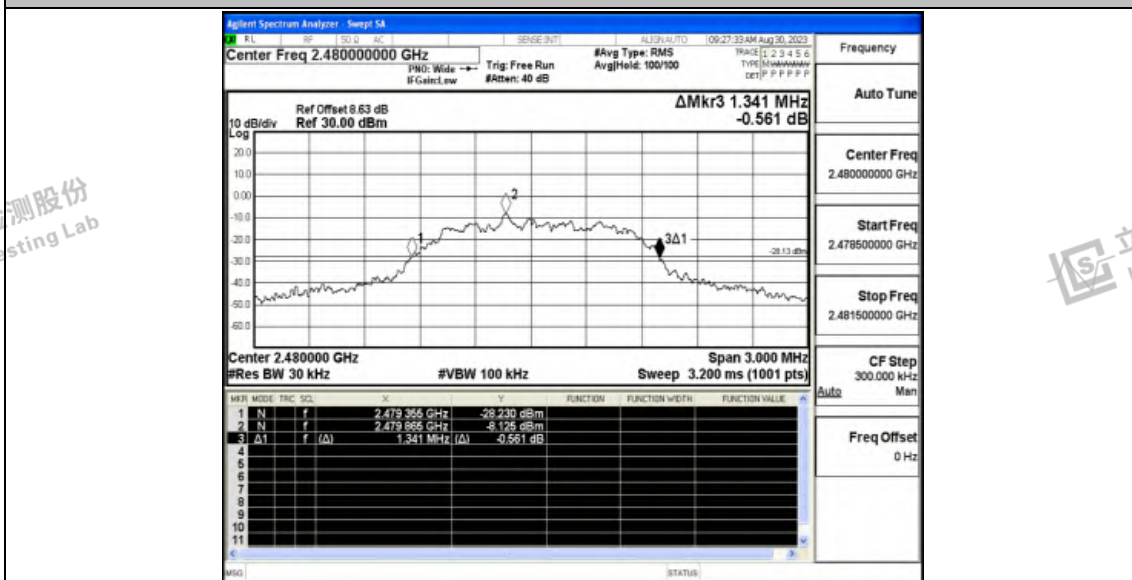
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2DH5_Ant_2480



3DH5_Ant_2402

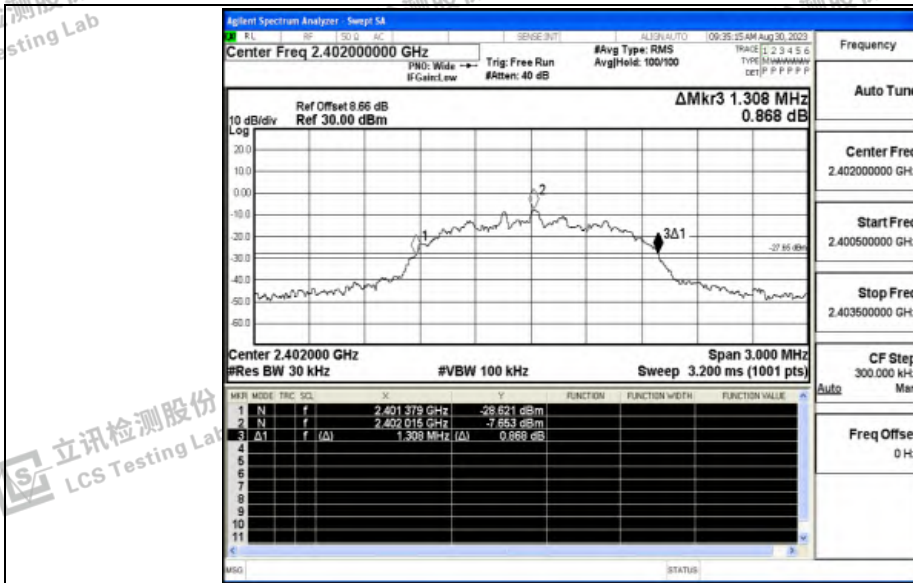


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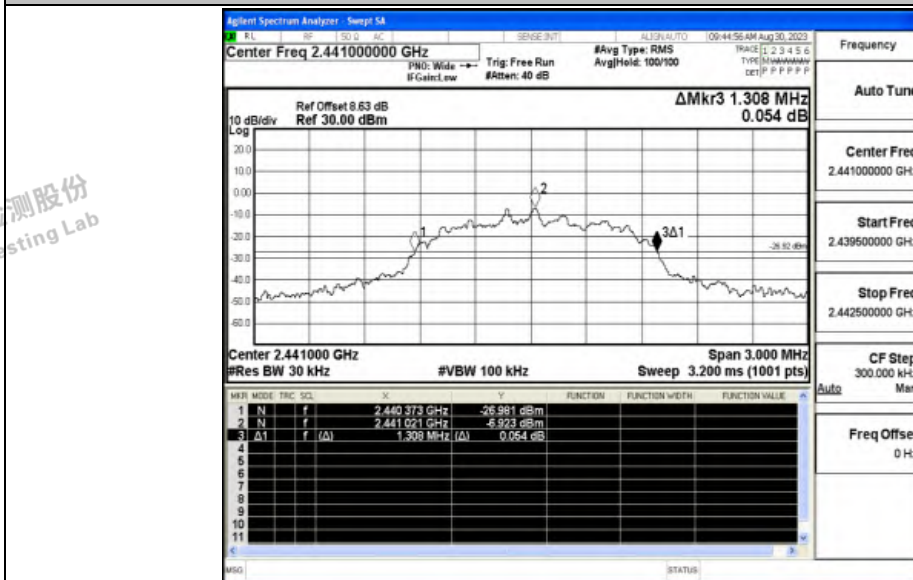
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3DH5_Ant_2441



3DH5_Ant_2480

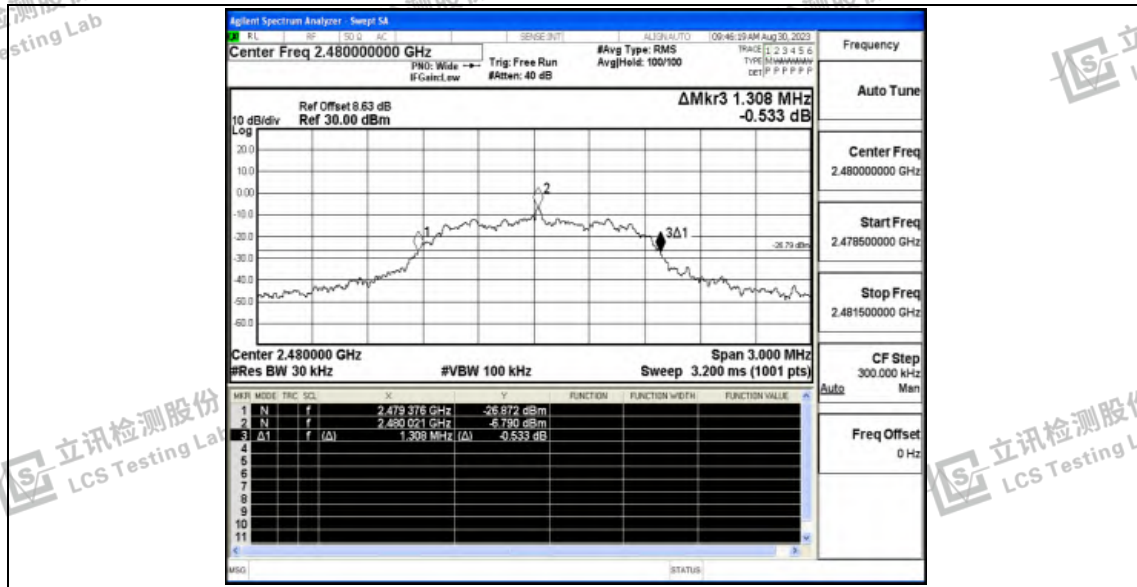


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant	2402	-4.13	≤20.97	PASS
		2441	-3.70	≤20.97	PASS
		2480	-3.23	≤20.97	PASS
2DH5	Ant	2402	-3.40	≤20.97	PASS
		2441	-3.11	≤20.97	PASS
		2480	-2.70	≤20.97	PASS
3DH5	Ant	2402	-3.14	≤20.97	PASS
		2441	-2.67	≤20.97	PASS
		2480	-2.10	≤20.97	PASS



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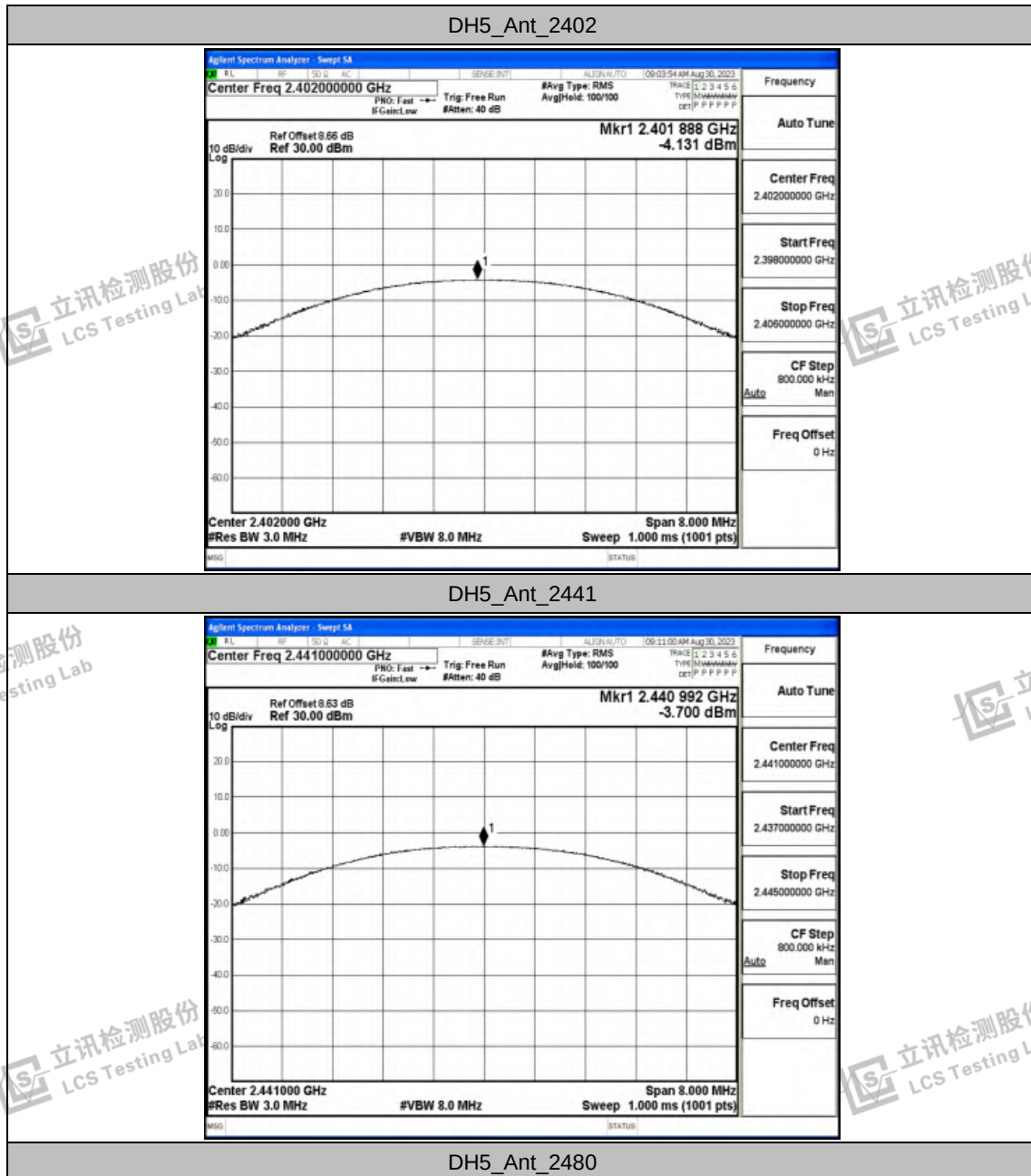
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Test Graphs

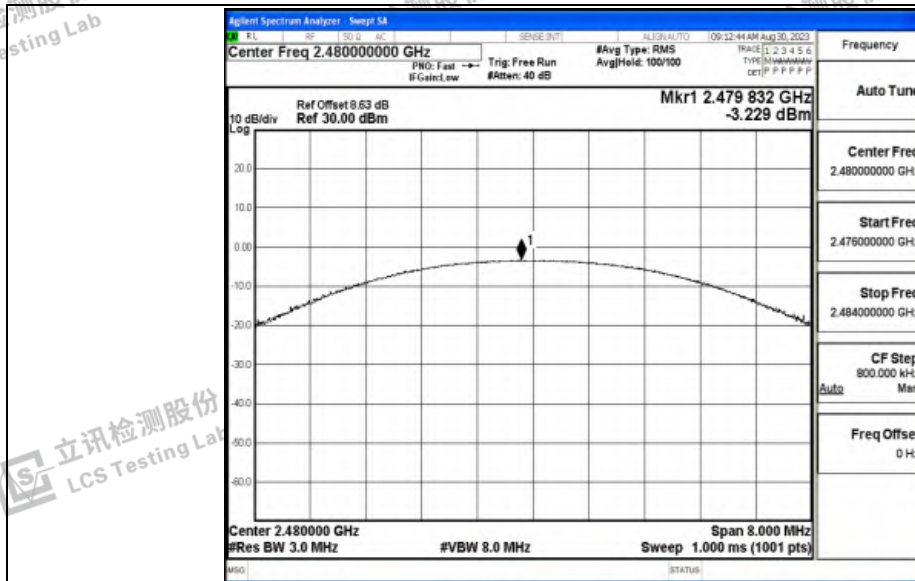


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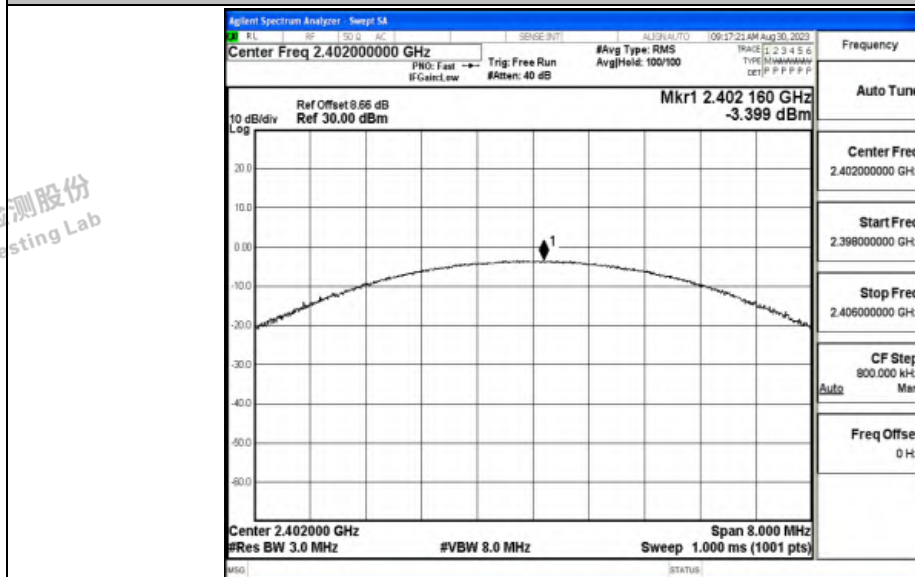
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2DH5_Ant_2402



2DH5_Ant_2441

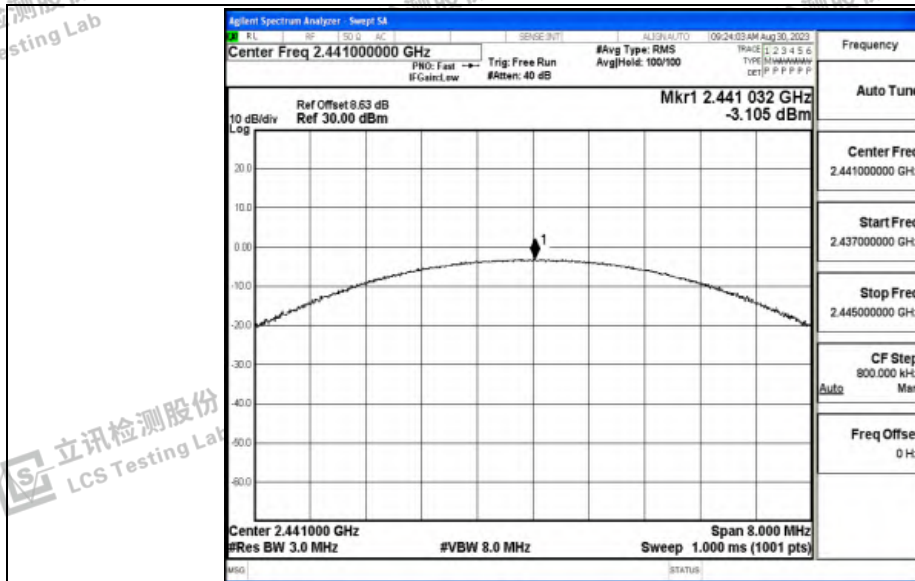


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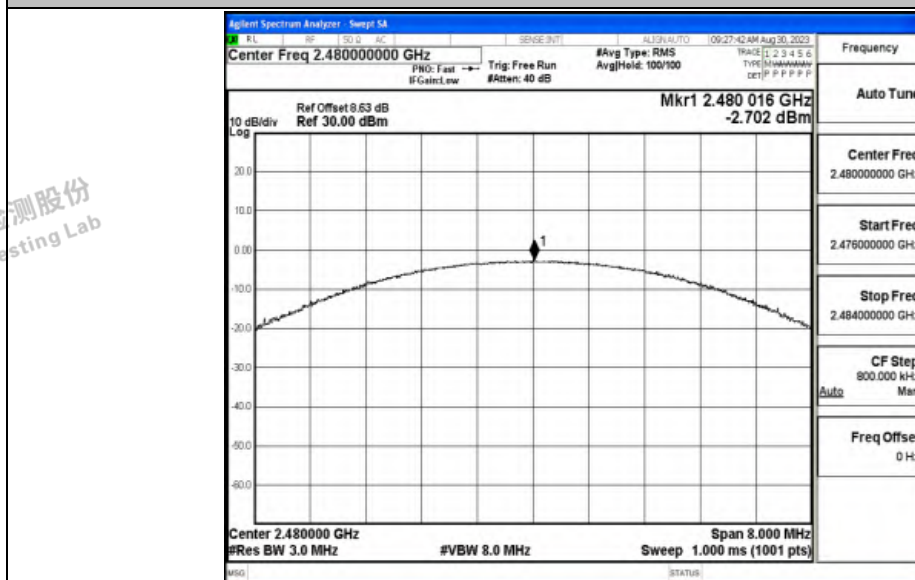
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2DH5_Ant_2480



3DH5_Ant_2402

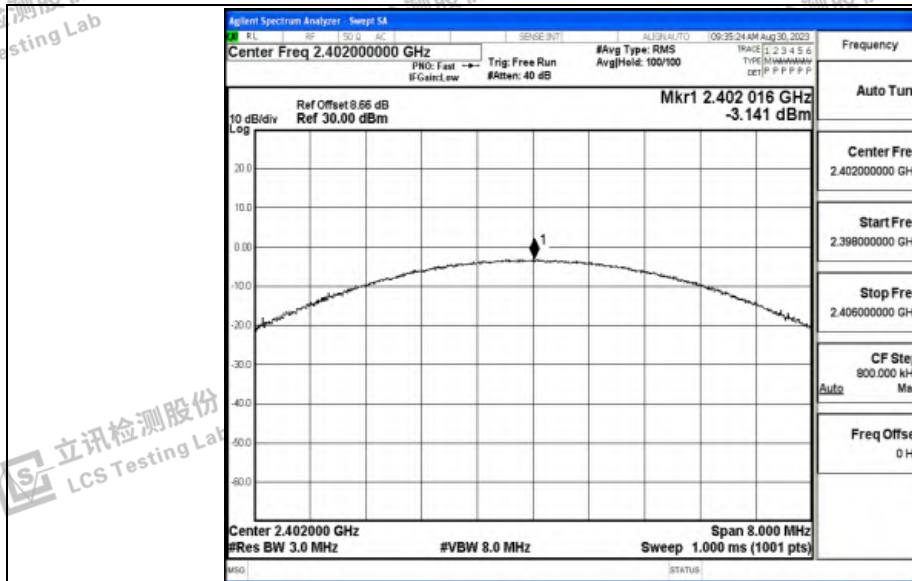


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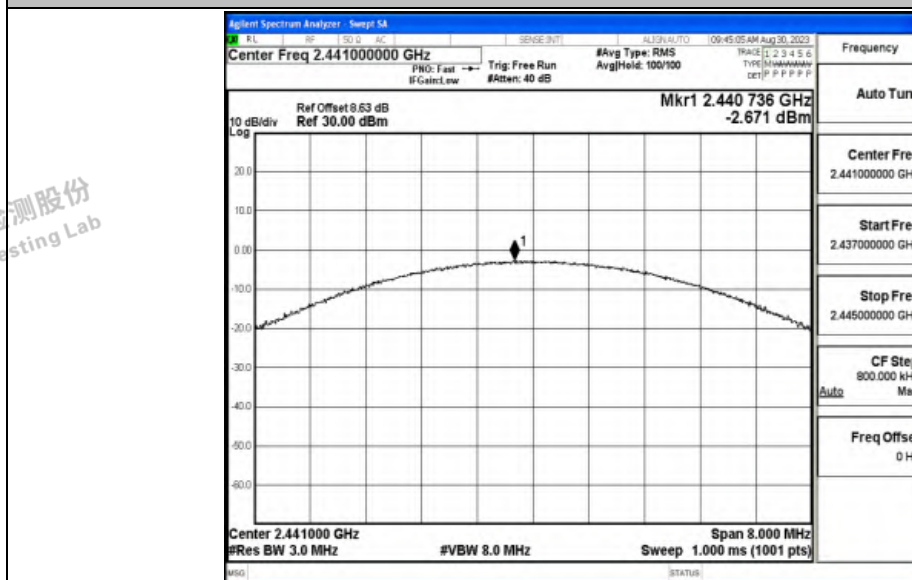
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3DH5_Ant_2441



3DH5_Ant_2480

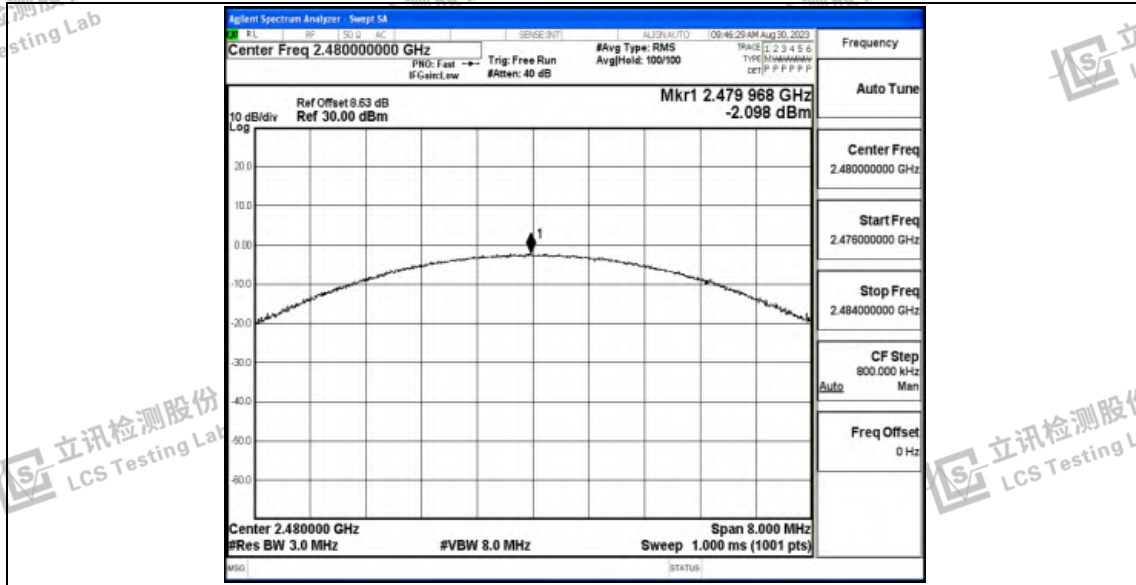


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	1.09	≥ 1.074	PASS
2DH5	Ant	Hop	1.178	≥ 0.894	PASS
3DH5	Ant	Hop	0.968	≥ 0.872	PASS



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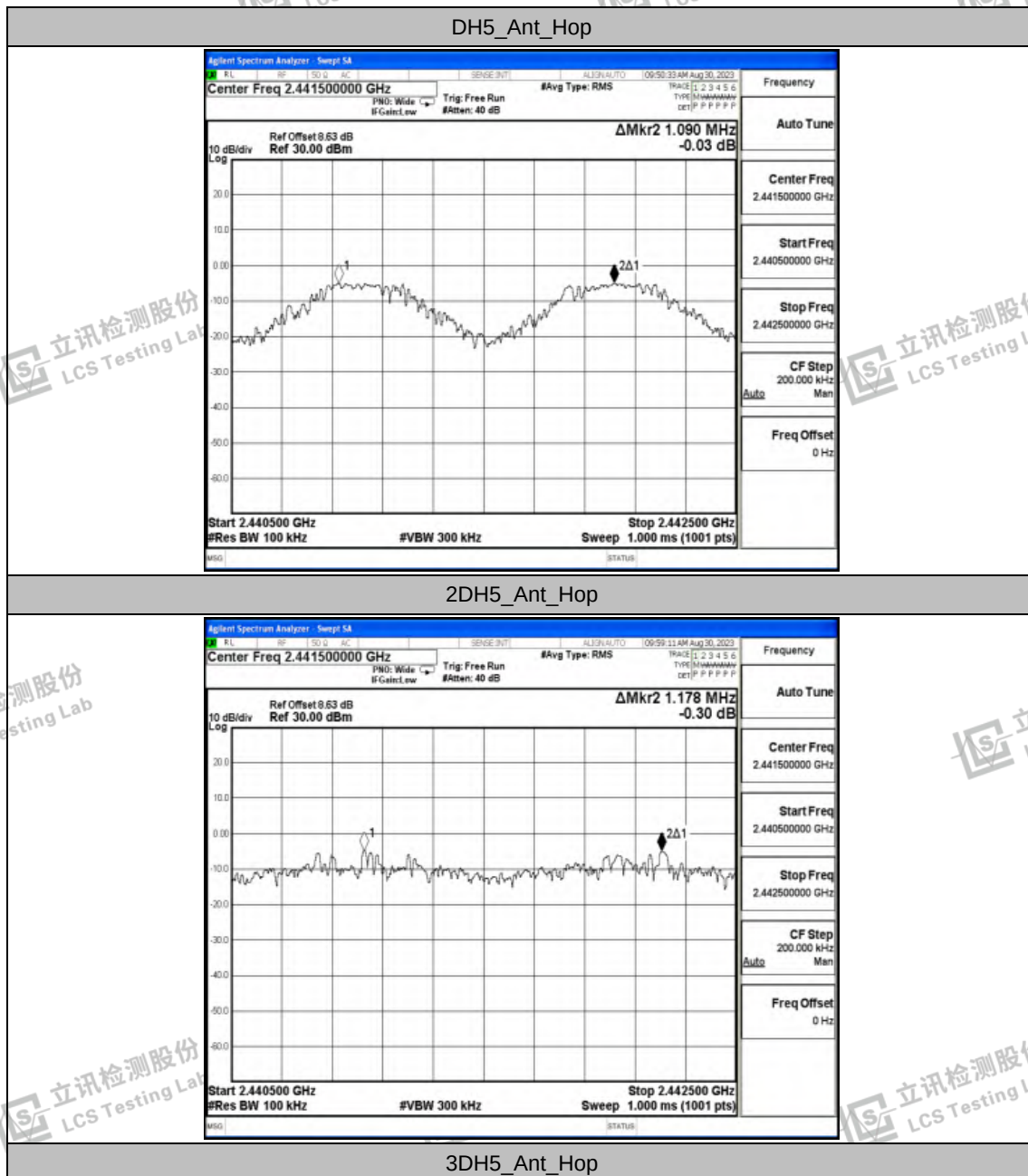
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Test Graphs

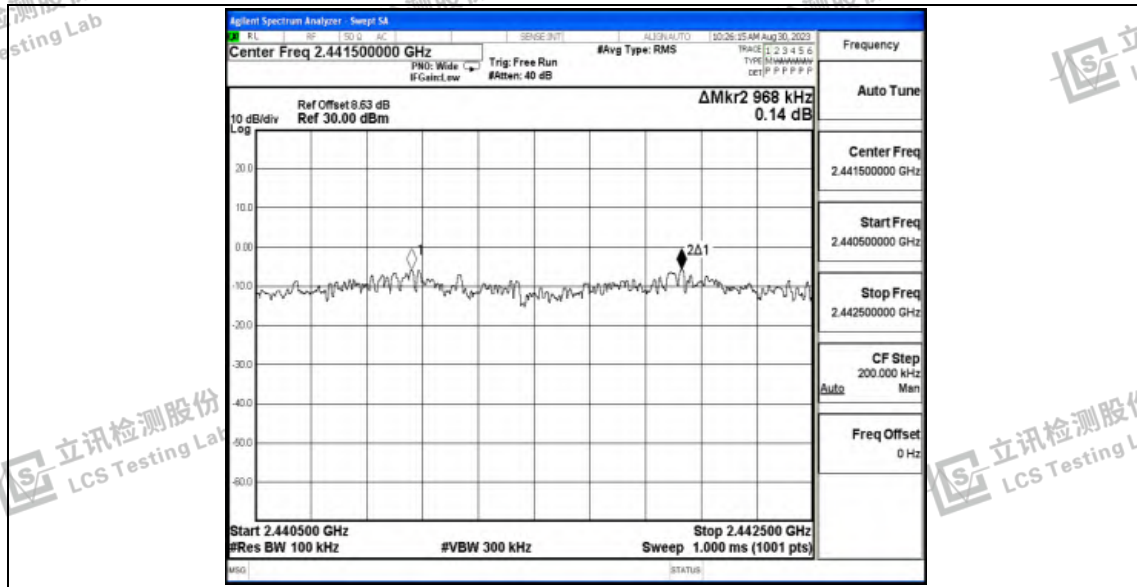


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A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant	Hop	2.878	106.67	0.307	≤0.4	PASS
2DH5	Ant	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant	Hop	2.887	106.67	0.308	≤0.4	PASS



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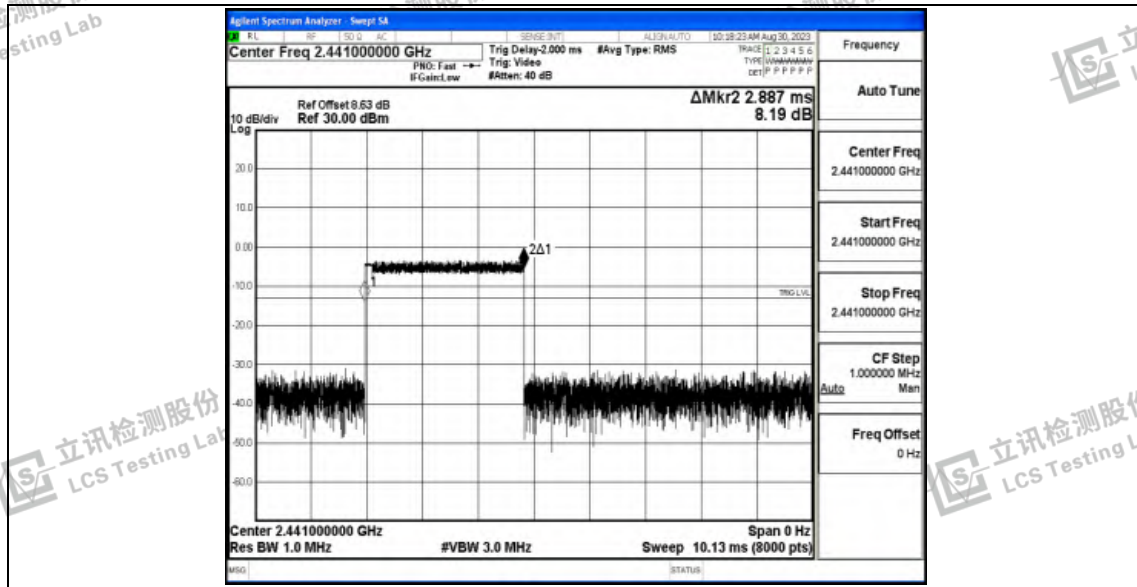


The figure displays two Agilent Spectrum Analyzer screenshots, labeled DH5_Ant_Hop and 2DH5_Ant_Hop, showing the frequency response of the respective antennas. Both plots are centered at 2.441 GHz with a resolution bandwidth (Res BW) of 1.0 MHz and a span of 0 Hz. The y-axis represents power in dBm, ranging from -60 to 20. The x-axis represents frequency in GHz. Both plots show a flat response at the center frequency with a noise floor around -40 dBm. The DH5_Ant_Hop plot has a marker at 2.878 ms and 2.18 dB, while the 2DH5_Ant_Hop plot has a marker at 2.884 ms and 7.28 dB. The plots are overlaid on a grid, and the background is white. The Agilent logo is visible in the top left corner of each plot area.

Parameter	DH5_Ant_Hop	2DH5_Ant_Hop
Center Freq	2.441000000 GHz	2.441000000 GHz
Start Freq	2.441000000 GHz	2.441000000 GHz
Stop Freq	2.441000000 GHz	2.441000000 GHz
CF Step	1.000000 MHz	1.000000 MHz
Freq Offset	0 Hz	0 Hz
Ref Offset	8.63 dB	8.63 dB
Ref	30.00 dBm	30.00 dBm
ΔMkr2	2.878 ms	2.884 ms
Marker 1	2.18 dB	7.28 dB
Trig Delay	2.000 ms	2.000 ms
Trig: Video	#Atten: 40 dB	#Atten: 40 dB
Trig: Fast	#Gain: Low	#Gain: Low
Span	0 Hz	0 Hz
Res BW	1.0 MHz	1.0 MHz
#VBW	3.0 MHz	3.0 MHz
Sweep	10.13 ms (8000 pts)	10.13 ms (8000 pts)



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A.5 Number of hopping channels

Test Result

TestMode	Antenna	Channel	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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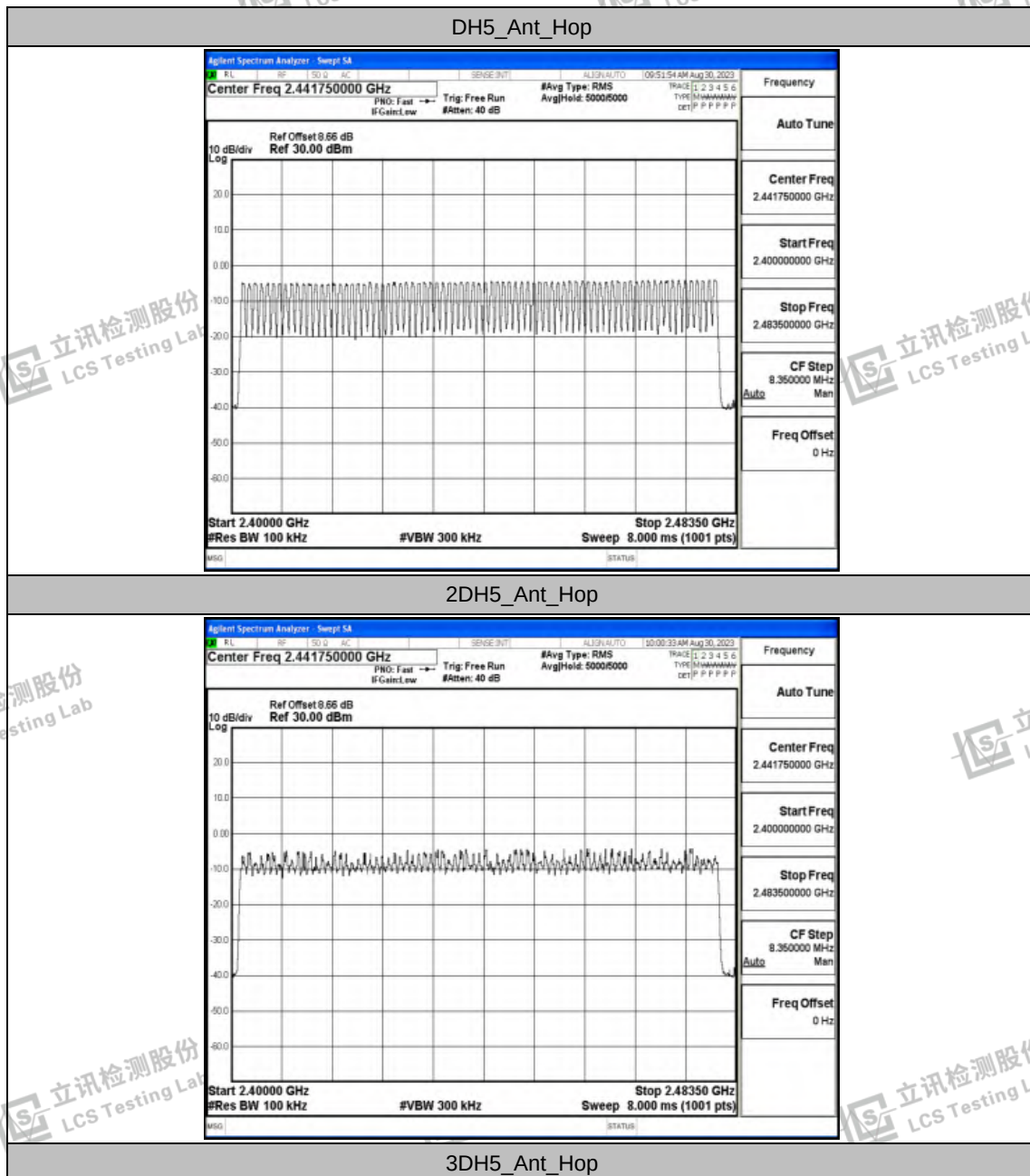
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Test Graphs

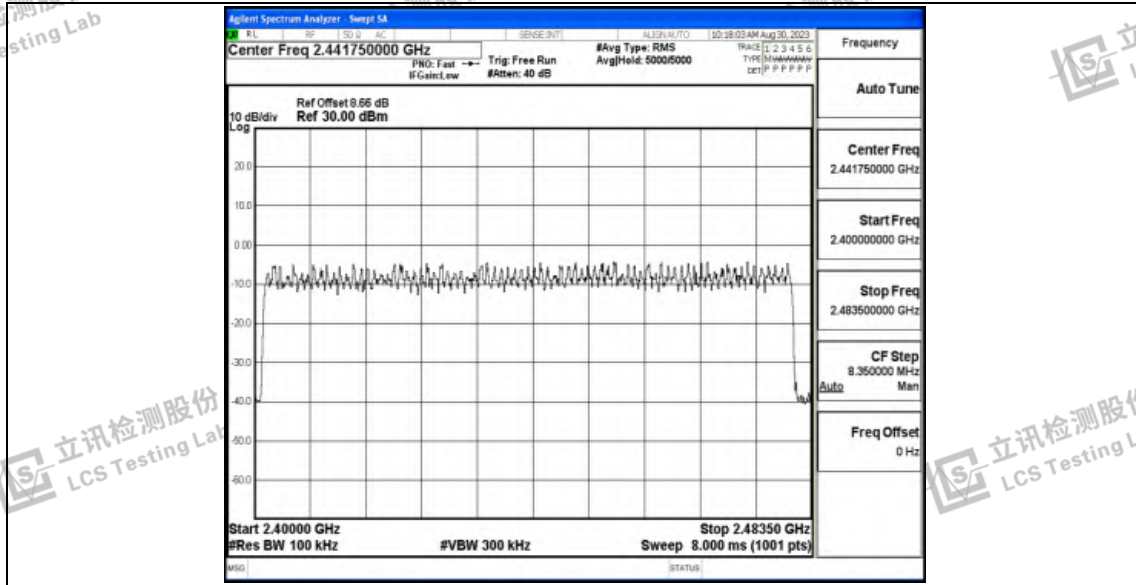


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	-5.97	-49.61	≤ -25.97	PASS
		High	2480	-4.52	-48.59	≤ -24.52	PASS
		Low	Hop_2402	-5.80	-48.39	≤ -25.8	PASS
		High	Hop_2480	-4.20	-47.06	≤ -24.2	PASS
2DH5	Ant	Low	2402	-8.28	-50.43	≤ -28.28	PASS
		High	2480	-6.75	-48.97	≤ -26.75	PASS
		Low	Hop_2402	-6.72	-49.02	≤ -26.72	PASS
		High	Hop_2480	-4.43	-48.09	≤ -24.43	PASS
3DH5	Ant	Low	2402	-8.15	-49.81	≤ -28.15	PASS
		High	2480	-4.11	-49.29	≤ -24.11	PASS
		Low	Hop_2402	-8.86	-48.92	≤ -28.86	PASS
		High	Hop_2480	-5.33	-47.76	≤ -25.33	PASS



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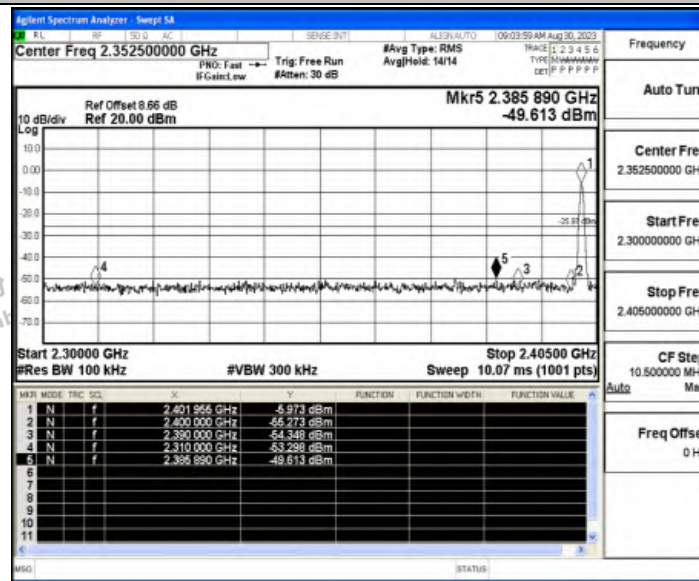
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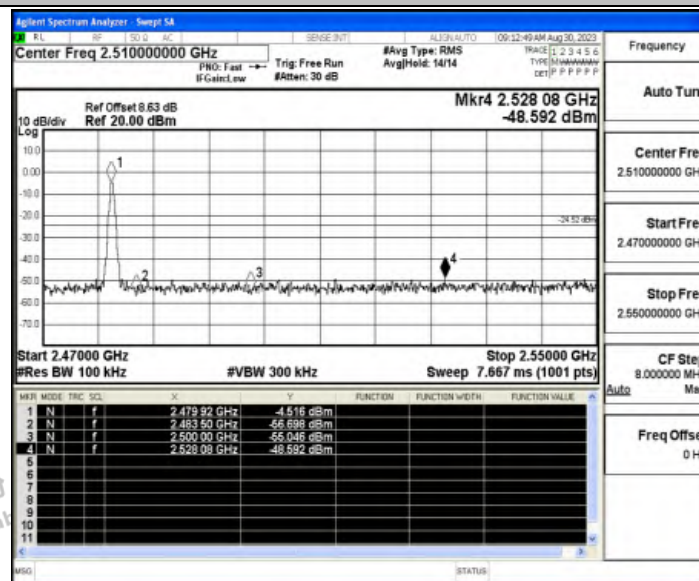


Test Graphs

DH5_Ant_Low_2402



DH5_Ant_High_2480



DH5_Ant_Low_Hop_2402

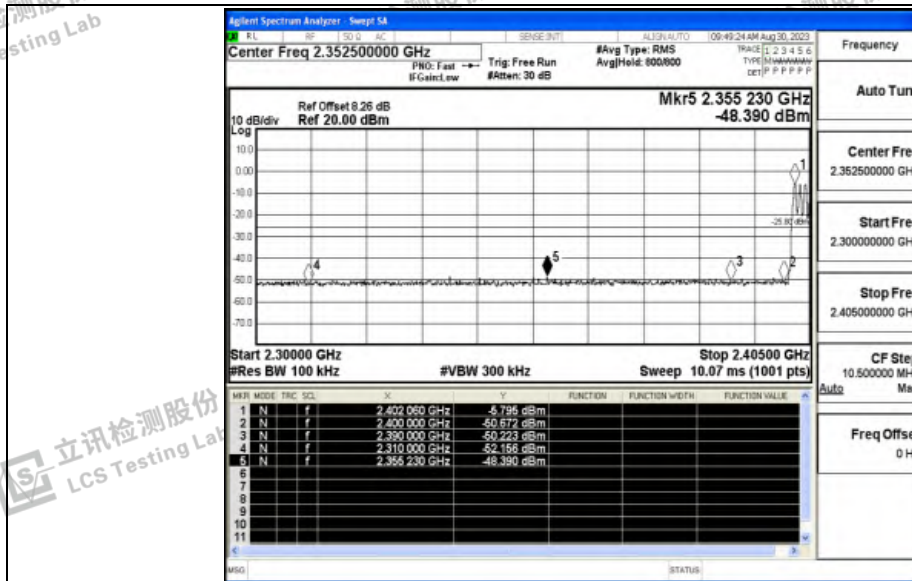


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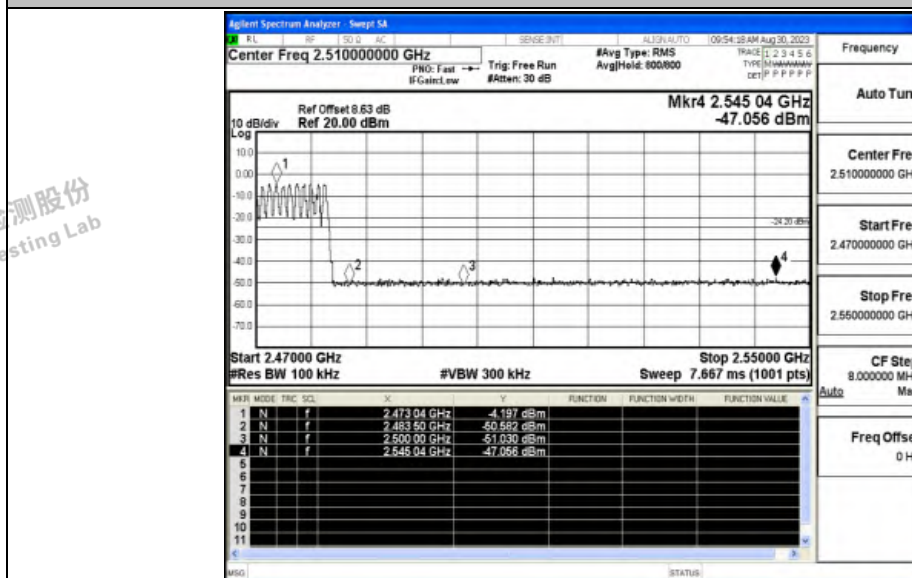
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DH5_Ant_High_Hop_2480



2DH5_Ant_Low_2402

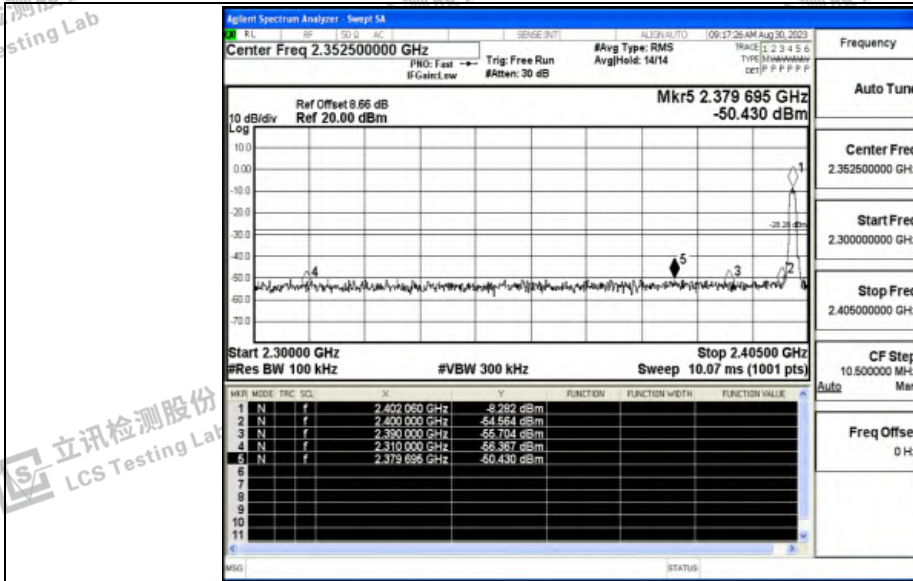


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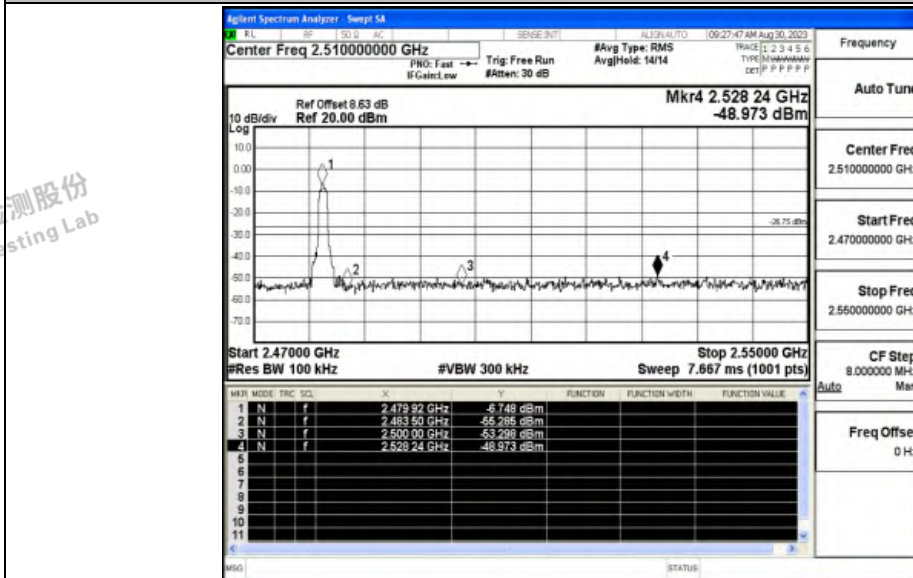
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2DH5_Ant_High_2480



2DH5_Ant_Low_Hop_2402

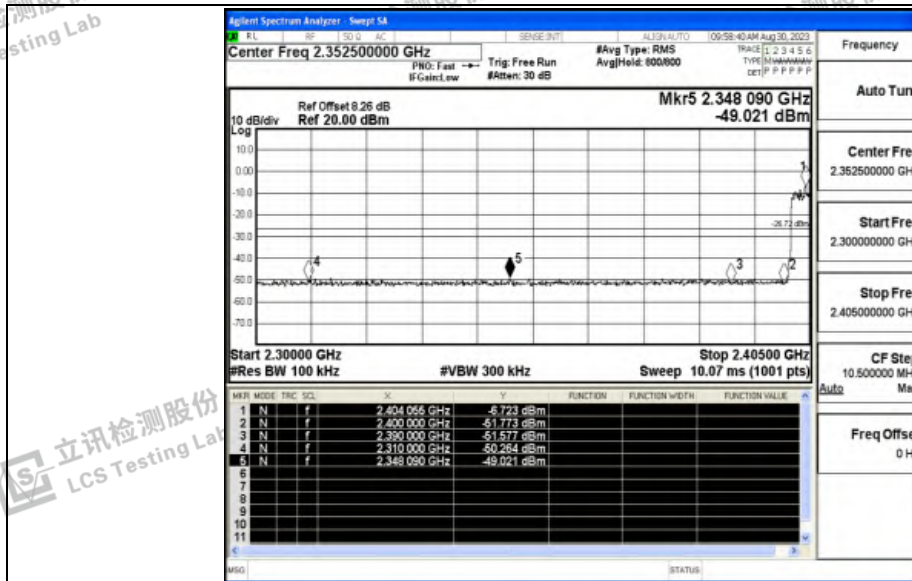


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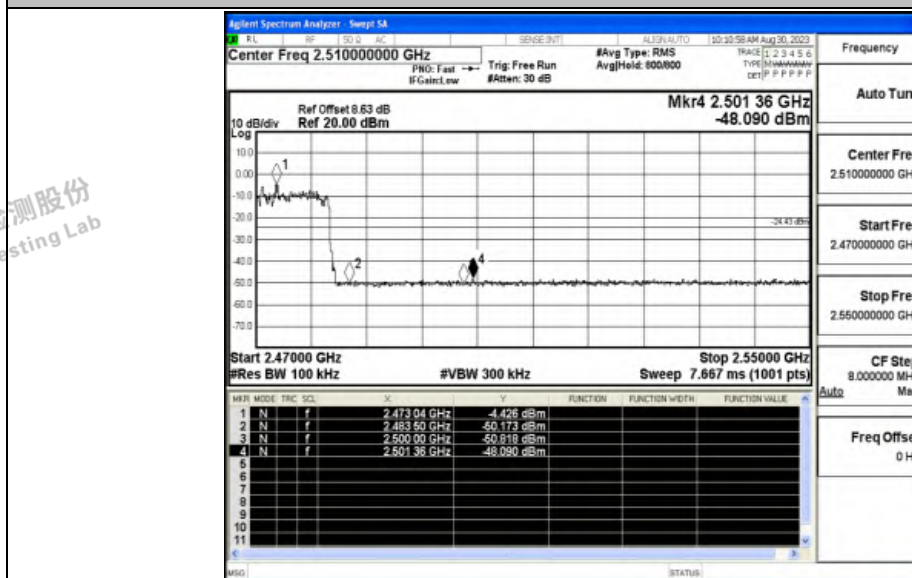
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2DH5_Ant_High_Hop_2480



3DH5_Ant_Low_2402

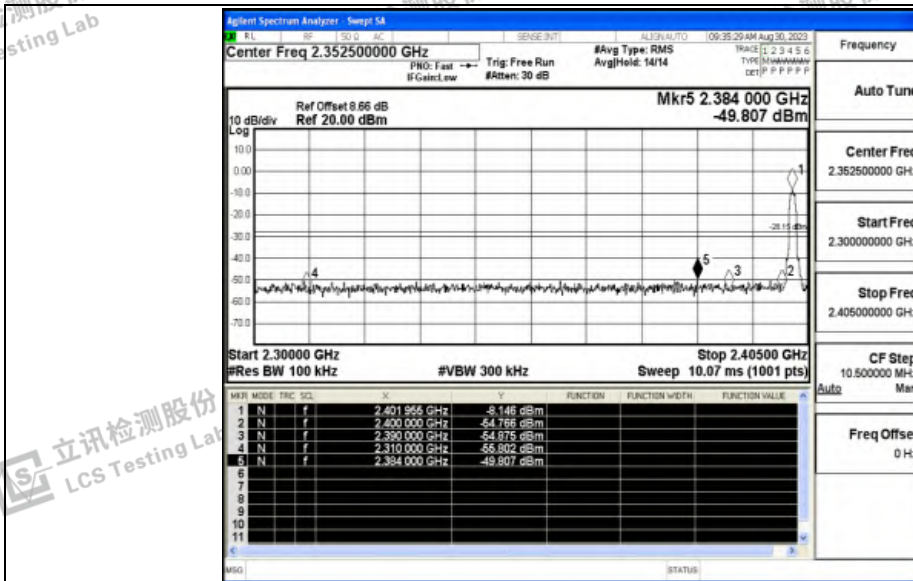


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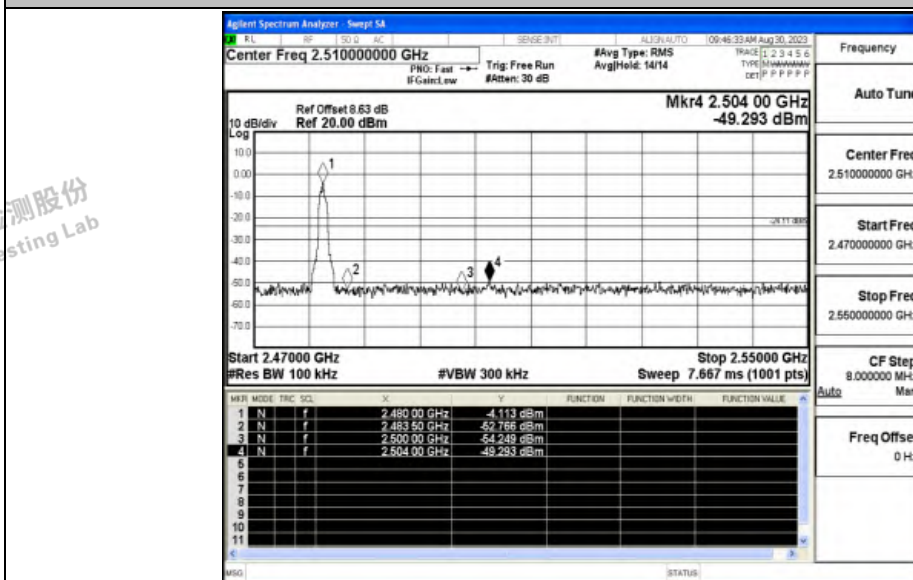
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3DH5_Ant_High_2480



3DH5_Ant_Low_Hop_2402

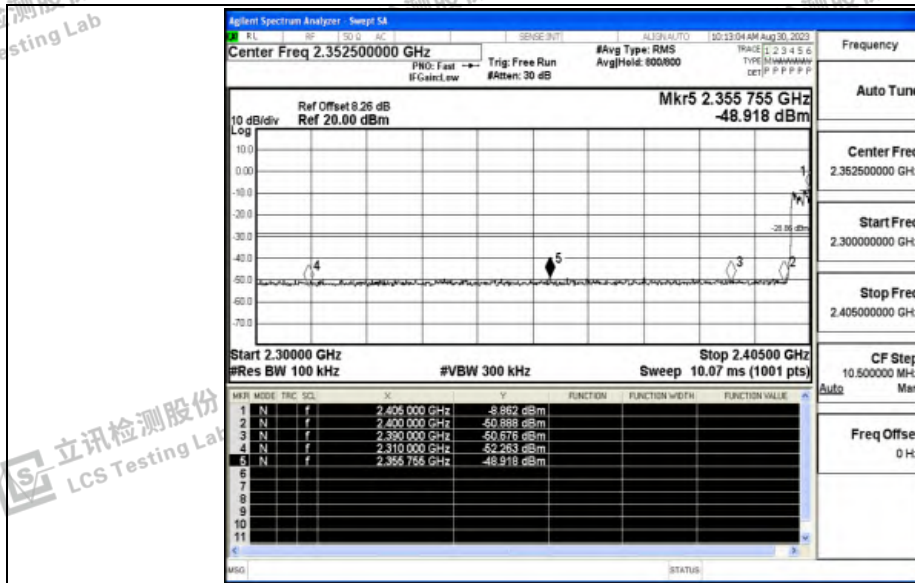


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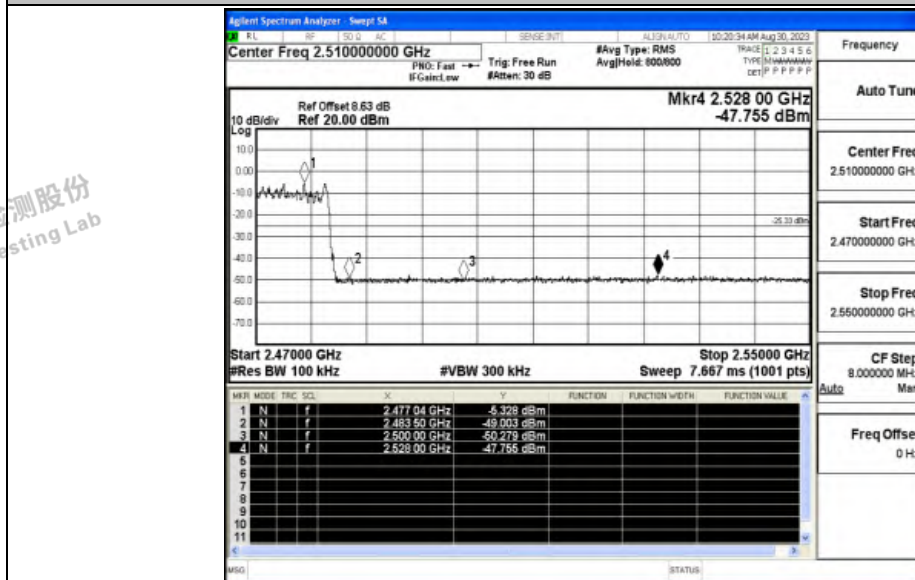
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3DH5_Ant_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	Reference	-5.13	-5.13	---	PASS
			30~1000	-5.13	-55.5	≤-25.13	PASS
			1000~26500	-5.13	-45.9	≤-25.13	PASS
		2441	Reference	-4.77	-4.77	---	PASS
			30~1000	-4.77	-53.15	≤-24.77	PASS
			1000~26500	-4.77	-46.01	≤-24.77	PASS
		2480	Reference	-4.26	-4.26	---	PASS
			30~1000	-4.26	-55.29	≤-24.26	PASS
			1000~26500	-4.26	-43.09	≤-24.26	PASS
2DH5	Ant	2402	Reference	-5.16	-5.16	---	PASS
			30~1000	-5.16	-56.59	≤-25.16	PASS
			1000~26500	-5.16	-46.6	≤-25.16	PASS
		2441	Reference	-4.83	-4.83	---	PASS
			30~1000	-4.83	-55	≤-24.83	PASS
			1000~26500	-4.83	-45	≤-24.83	PASS
		2480	Reference	-4.25	-4.25	---	PASS
			30~1000	-4.25	-55.78	≤-24.25	PASS
			1000~26500	-4.25	-46.58	≤-24.25	PASS
3DH5	Ant	2402	Reference	-4.97	-4.97	---	PASS
			30~1000	-4.97	-57.29	≤-24.97	PASS
			1000~26500	-4.97	-46.63	≤-24.97	PASS
		2441	Reference	-4.89	-4.89	---	PASS
			30~1000	-4.89	-55.62	≤-24.89	PASS
			1000~26500	-4.89	-46.32	≤-24.89	PASS
		2480	Reference	-4.59	-4.59	---	PASS
			30~1000	-4.59	-55.51	≤-24.59	PASS
			1000~26500	-4.59	-46.47	≤-24.59	PASS



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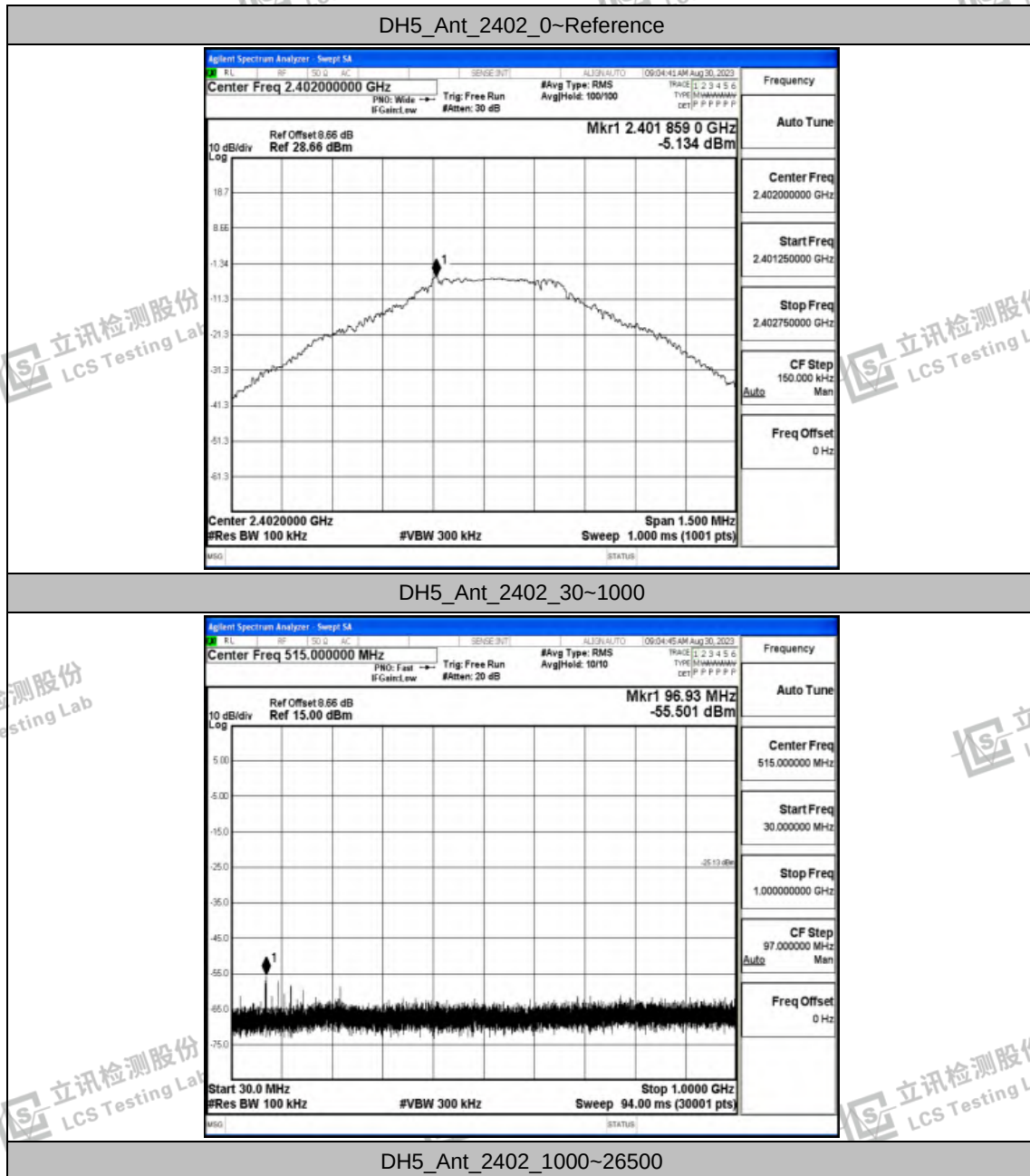
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Test Graphs

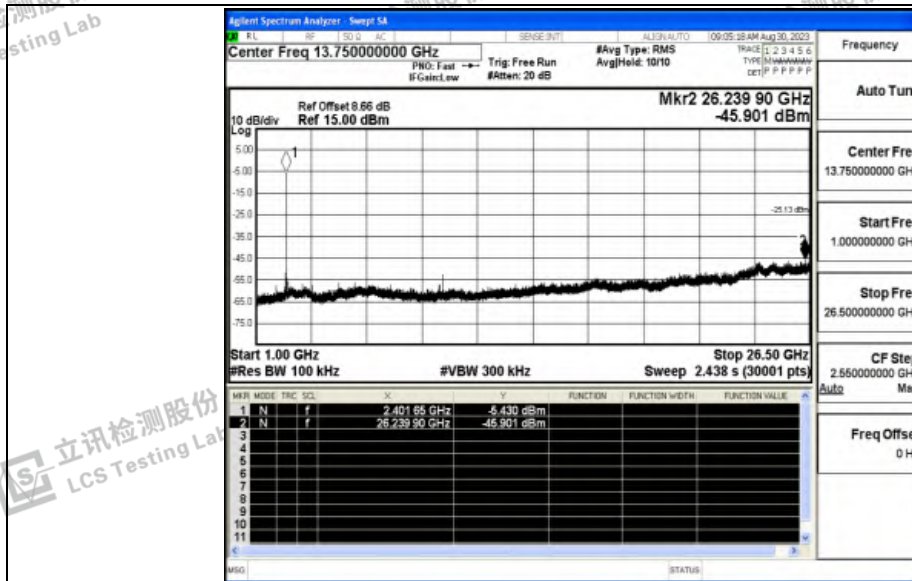


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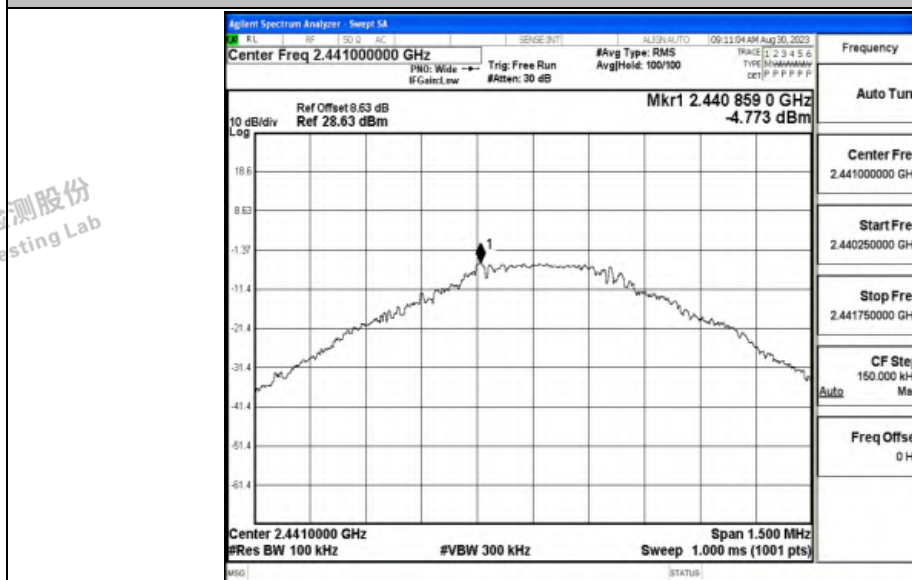
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DH5_Ant_2441_0~Reference



DH5_Ant_2441_30~1000

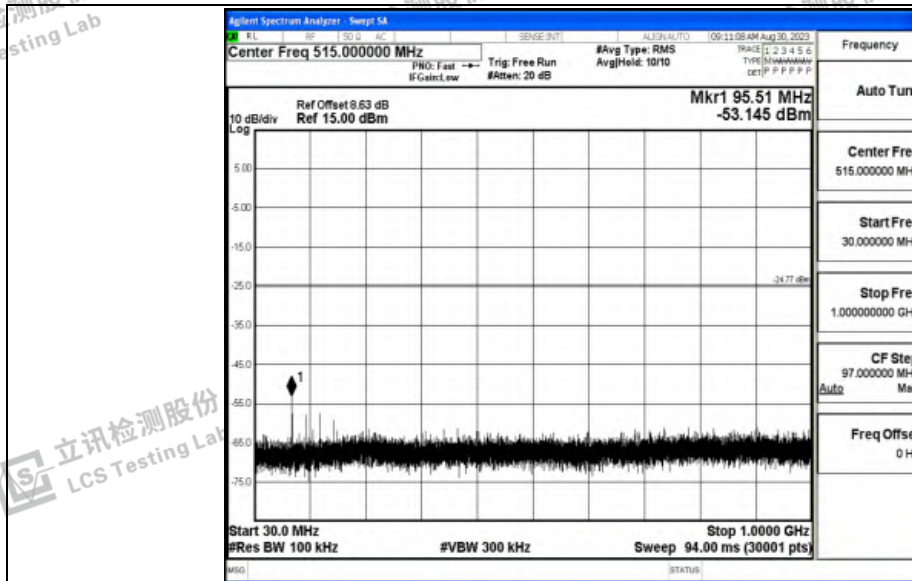


Shenzhen LCS Compliance Testing Laboratory Ltd.

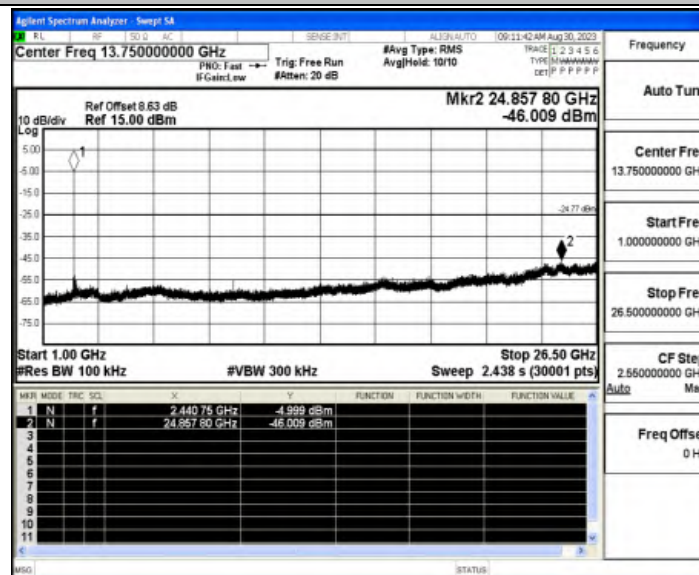
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DH5_Ant_2441_1000~26500



DH5_Ant_2480_0~Reference

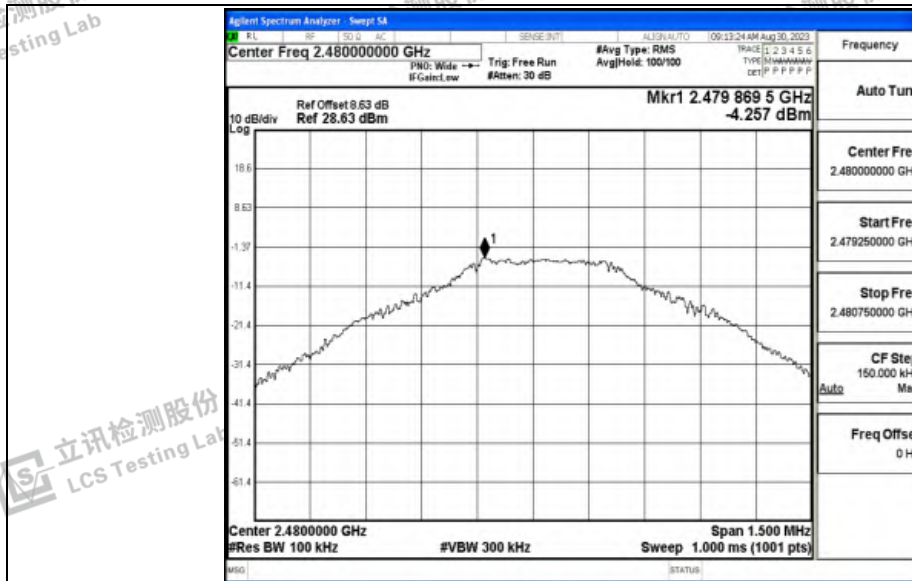


Shenzhen LCS Compliance Testing Laboratory Ltd.

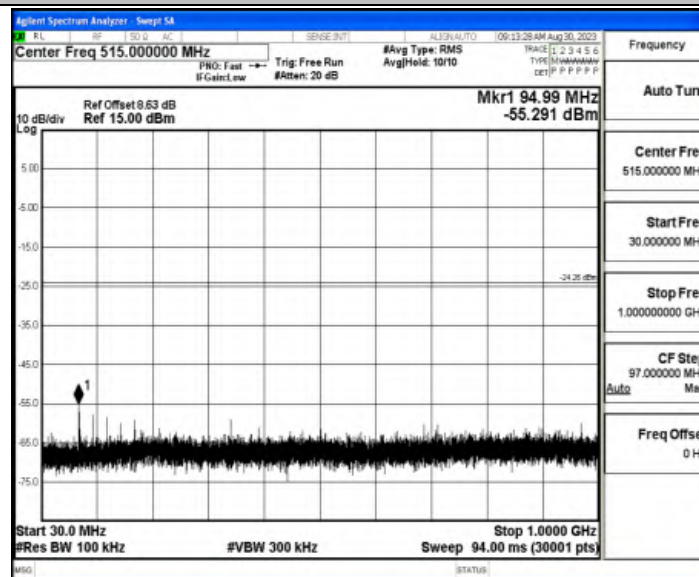
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DH5_Ant_2480_30~1000



DH5_Ant_2480_1000~26500

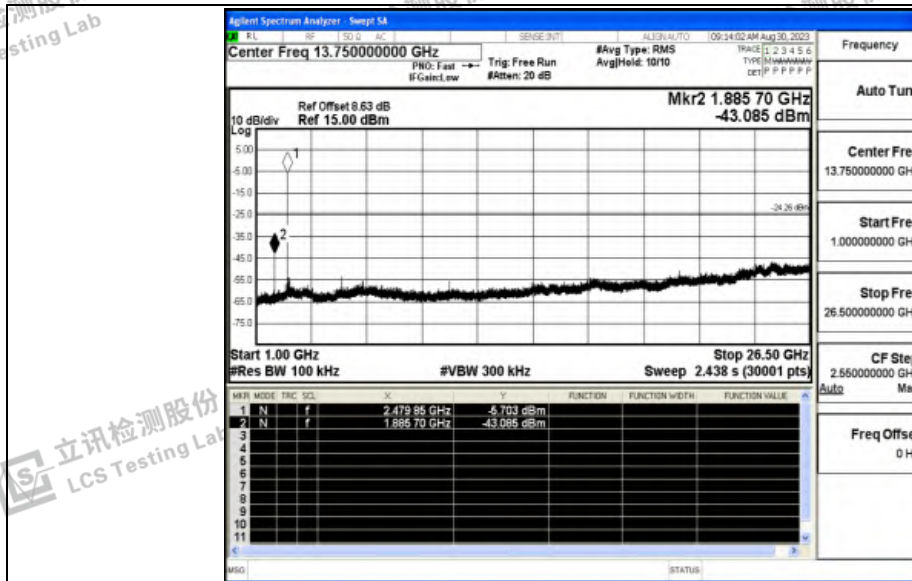


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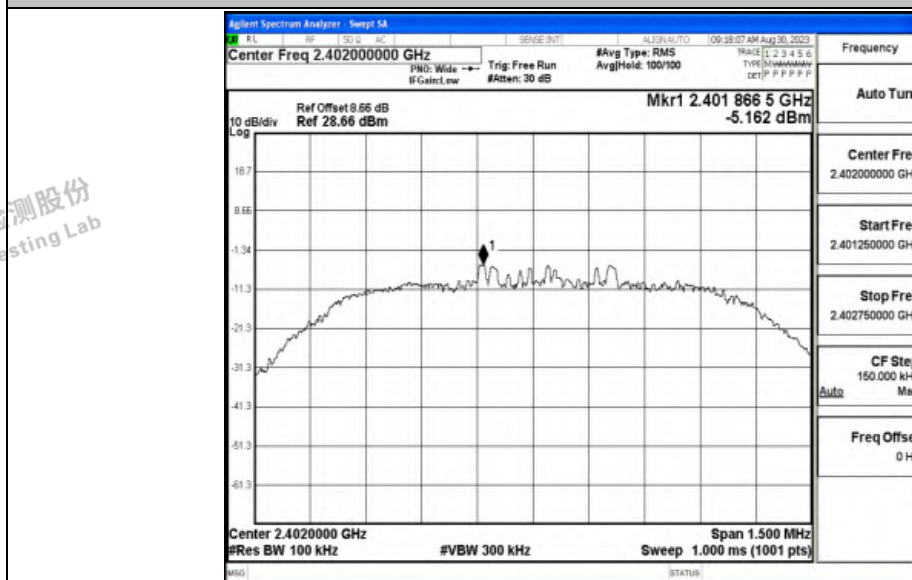
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2DH5_Ant_2402_0-Reference



2DH5_Ant_2402_30~1000

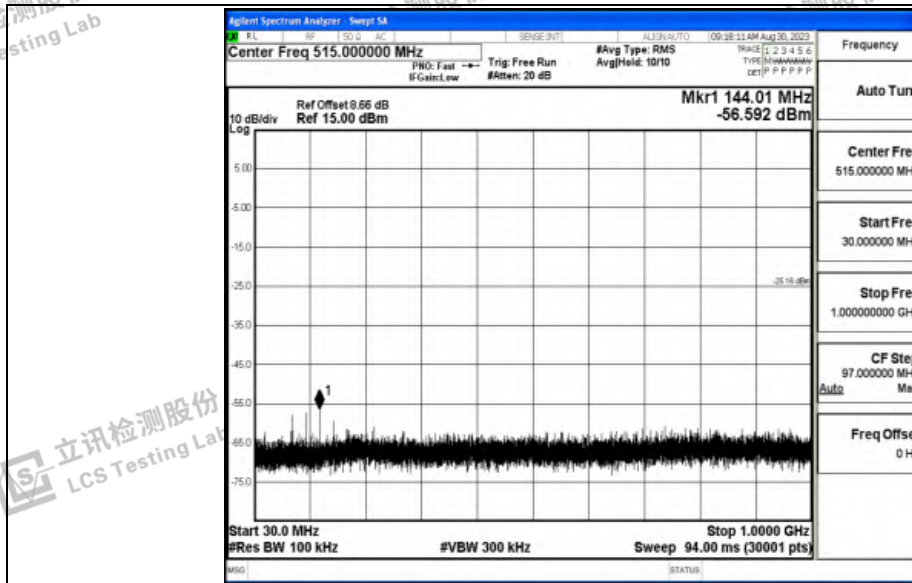


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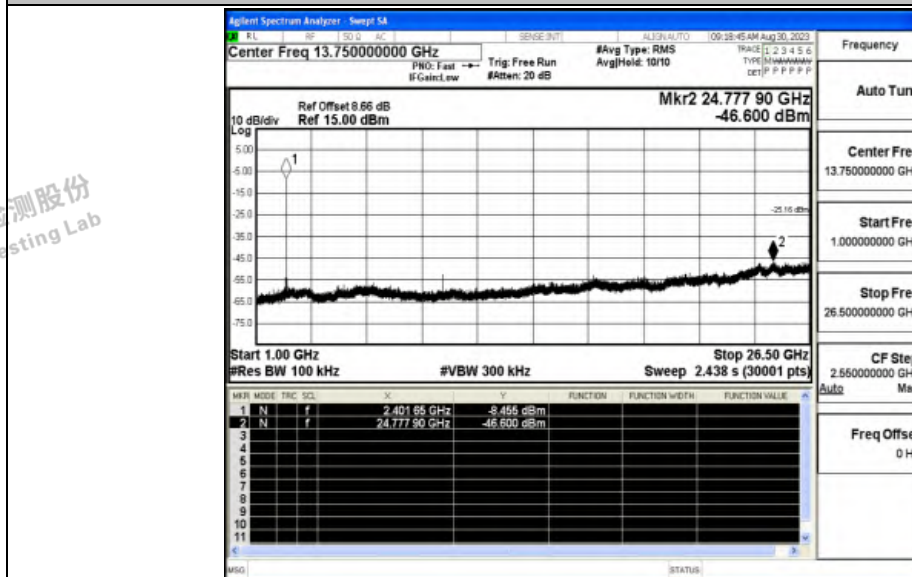
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2DH5_Ant_2402_1000~26500



2DH5_Ant_2441_0-Reference

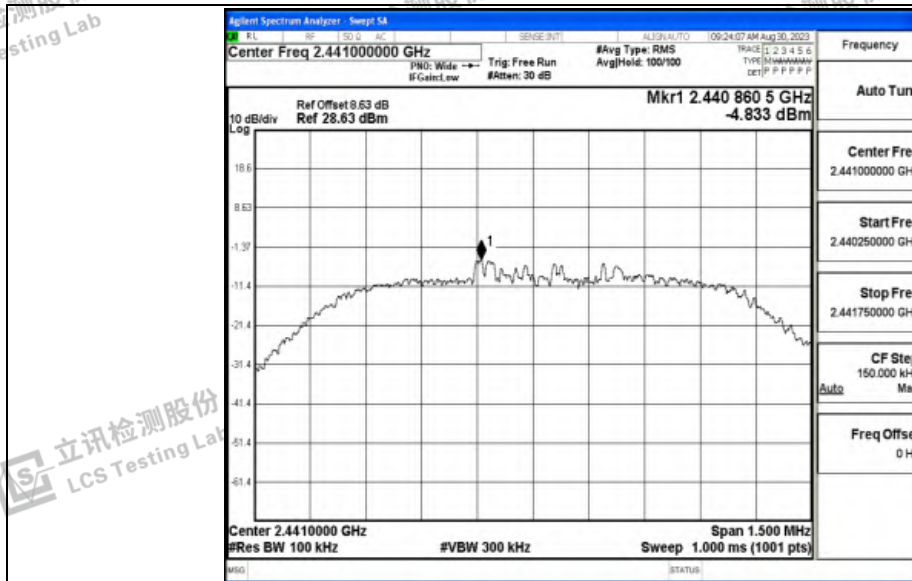


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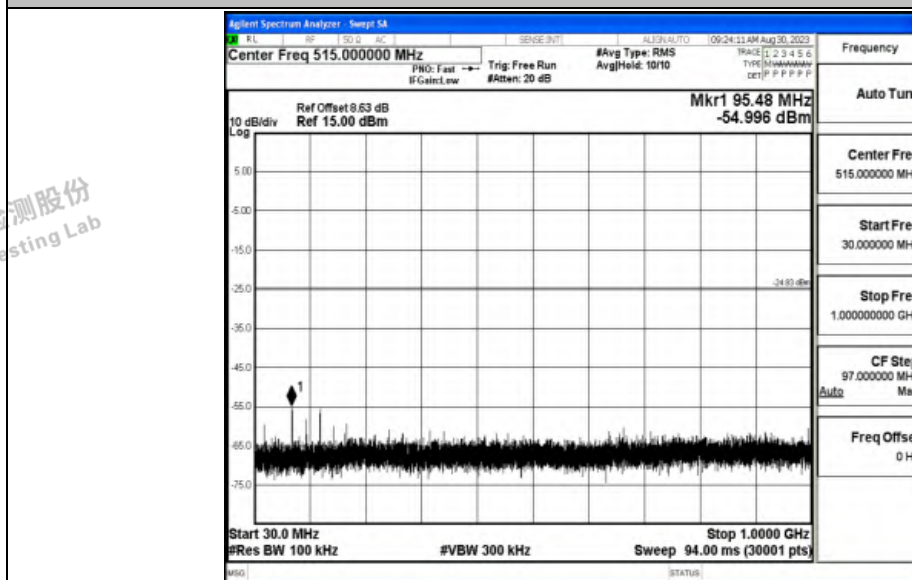
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2DH5_Ant_2441_30~1000



2DH5_Ant_2441_1000~26500

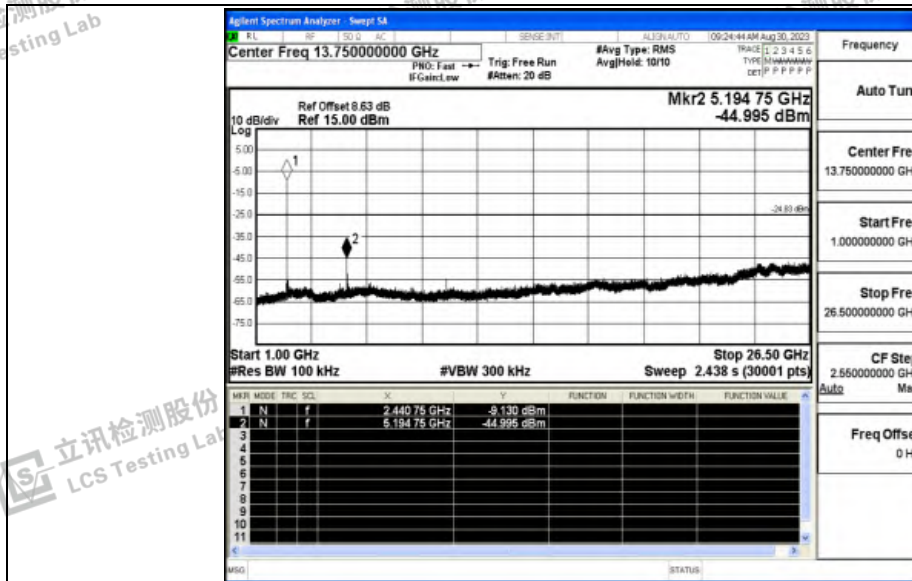


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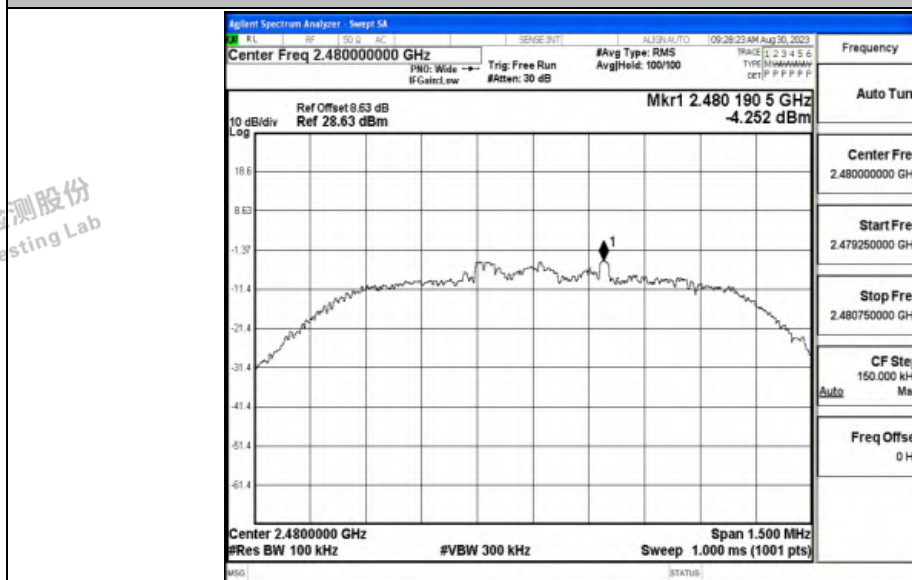
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2DH5_Ant_2480_0-Reference



2DH5_Ant_2480_30~1000

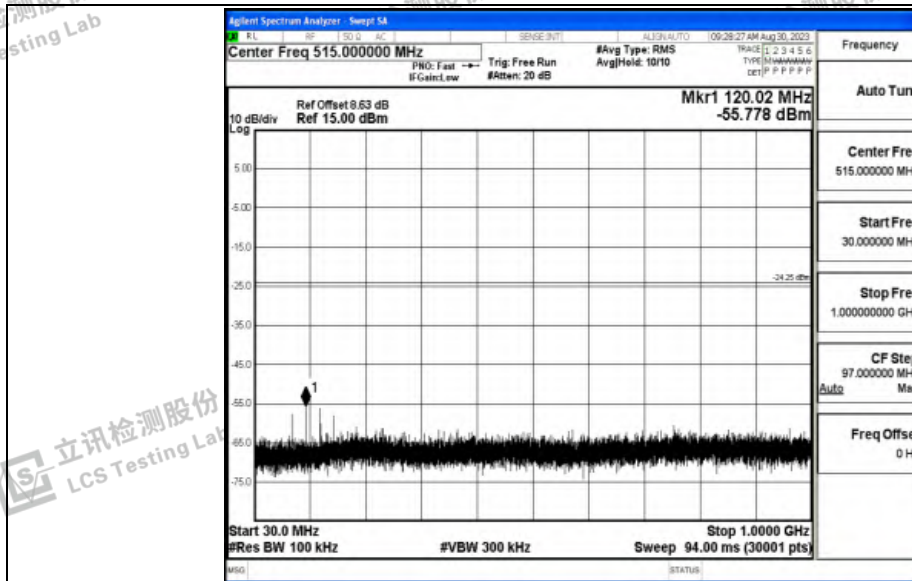


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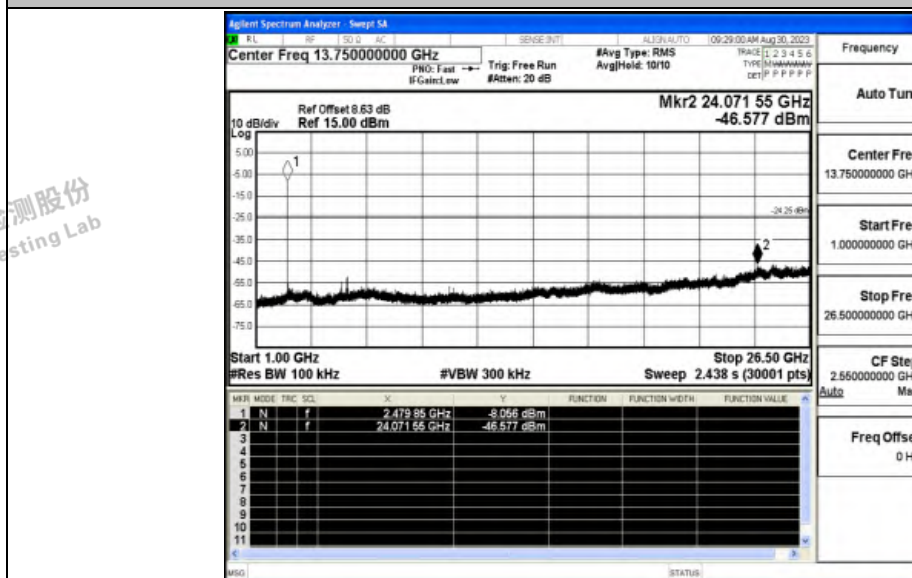
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2DH5_Ant_2480_1000~26500



3DH5_Ant_2402_0-Reference

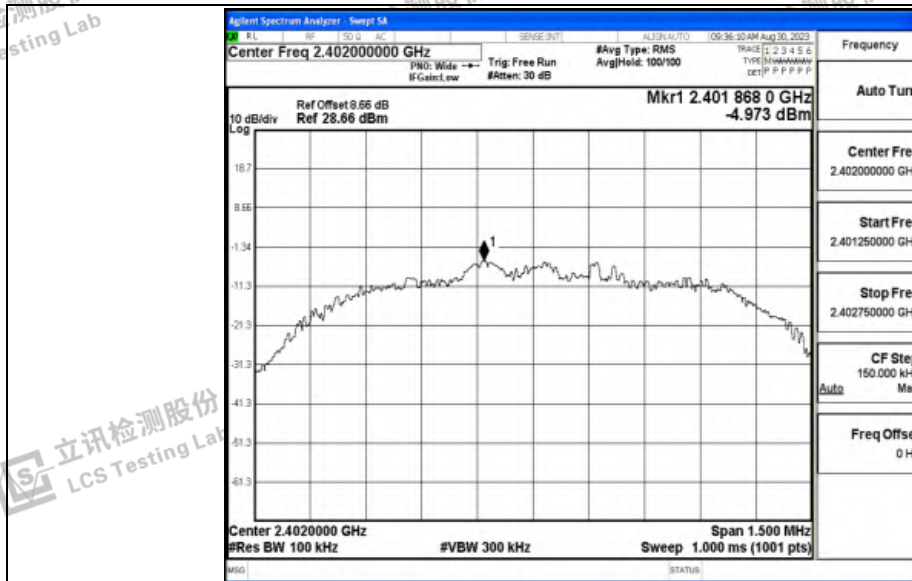


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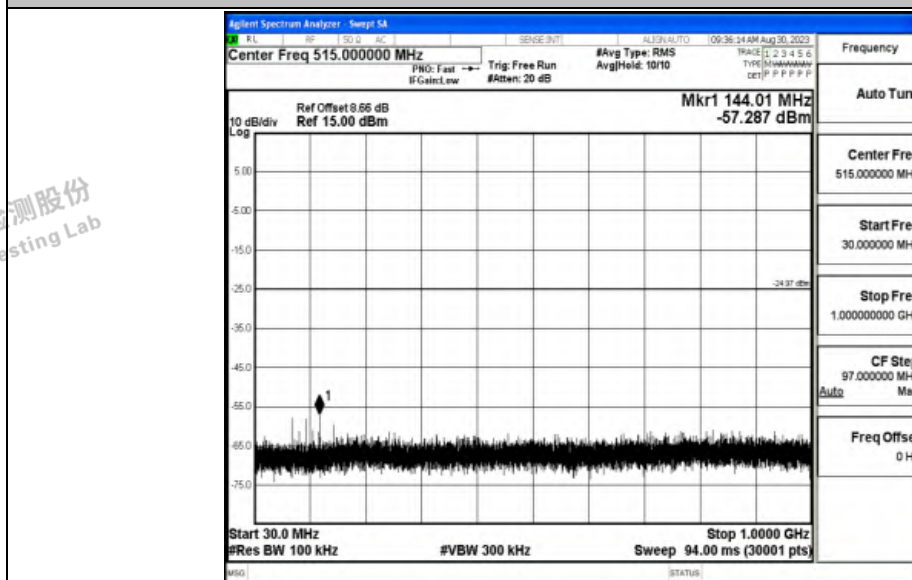
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3DH5_Ant_2402_30~1000



3DH5_Ant_2402_1000~26500

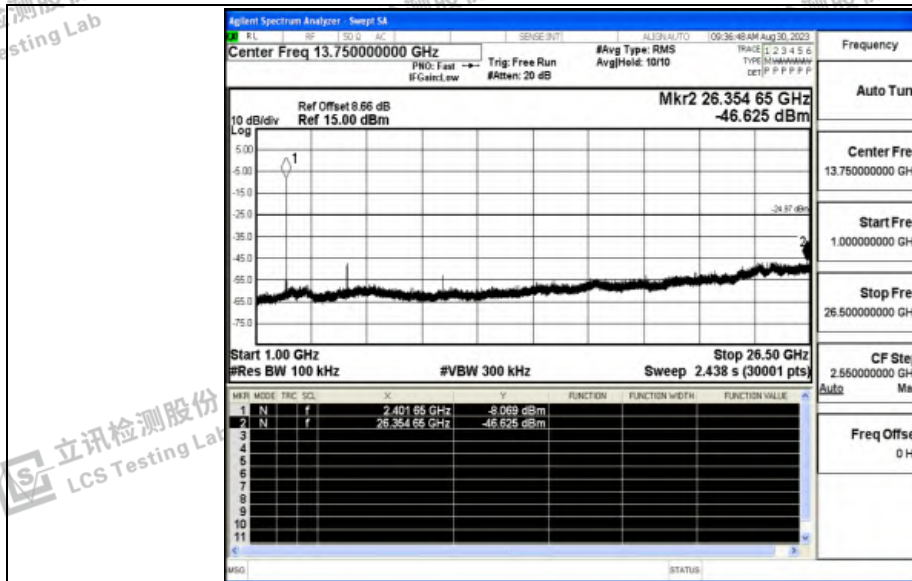


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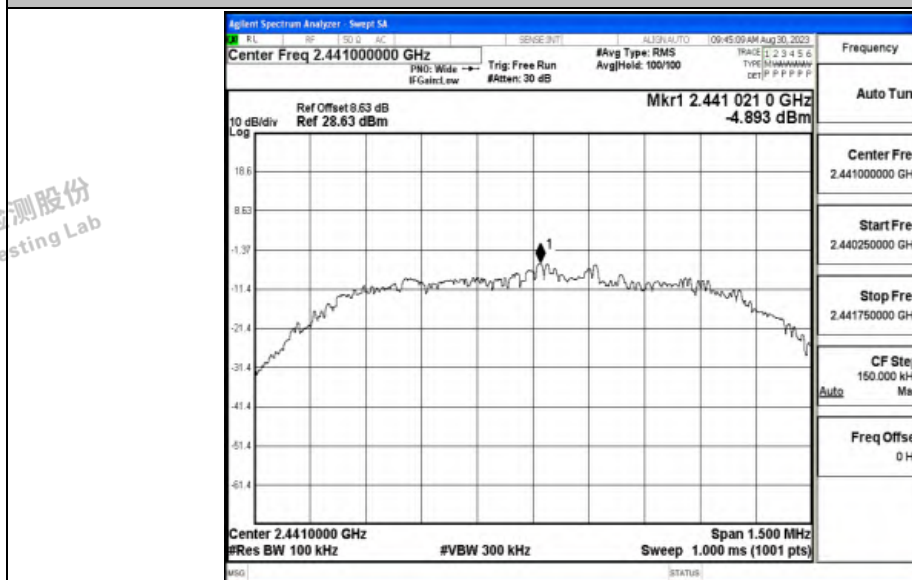
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3DH5_Ant_2441_0~Reference



3DH5_Ant_2441_30~1000

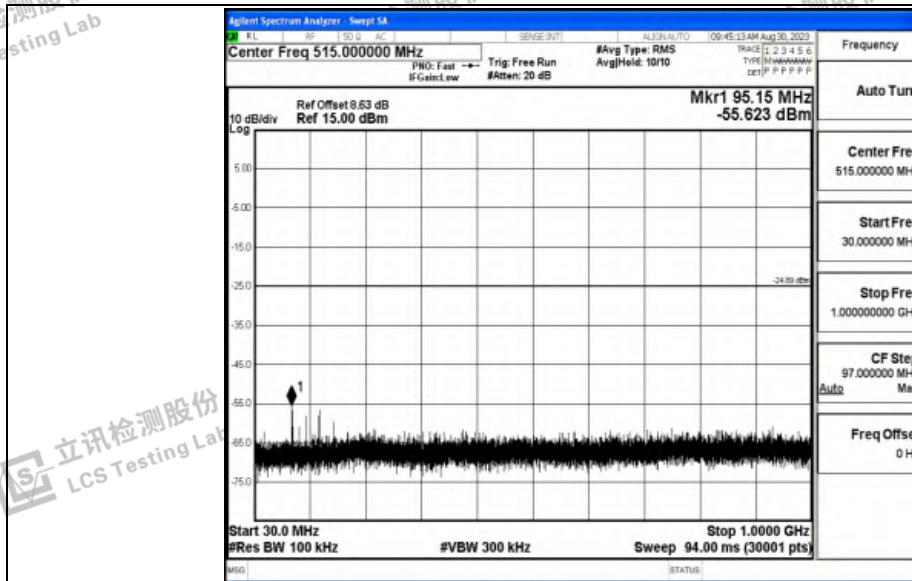


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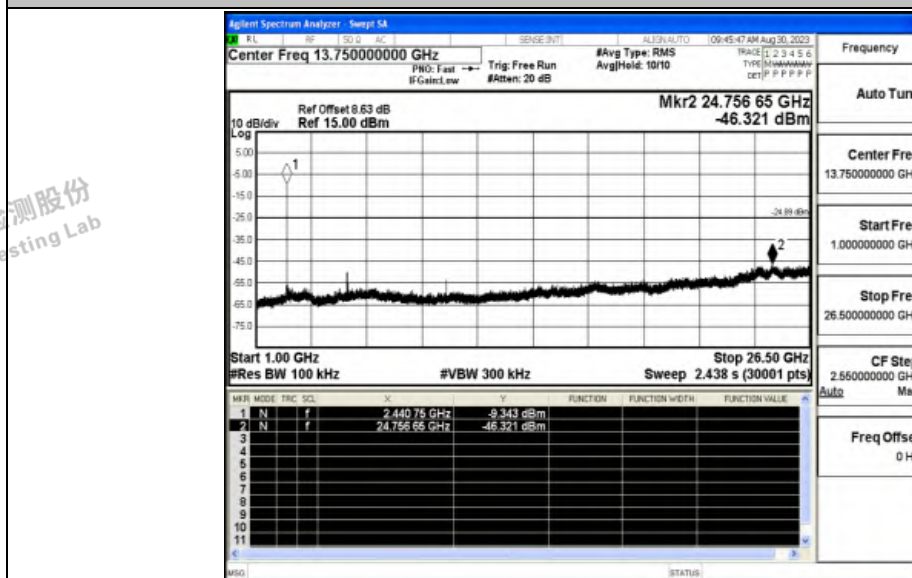
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3DH5_Ant_2441_1000~26500



3DH5_Ant_2480_0-Reference

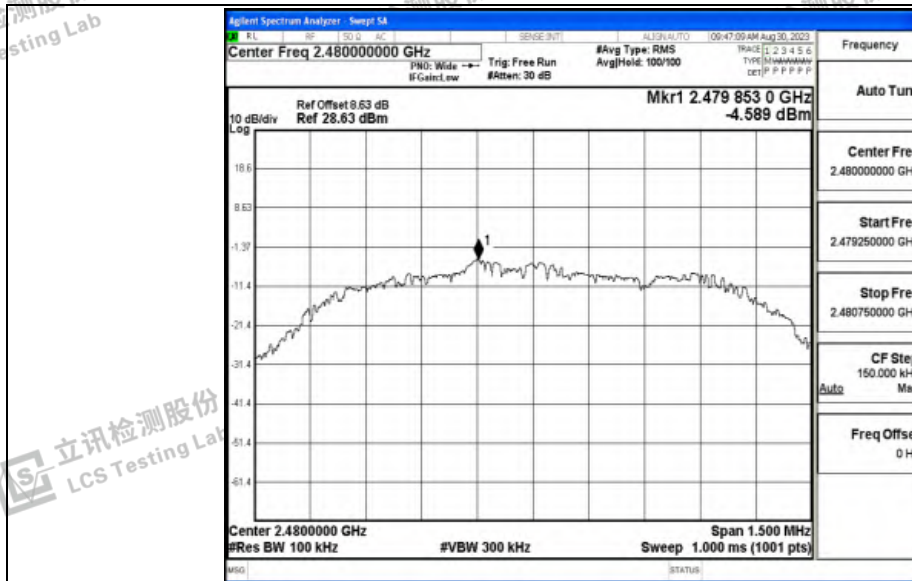


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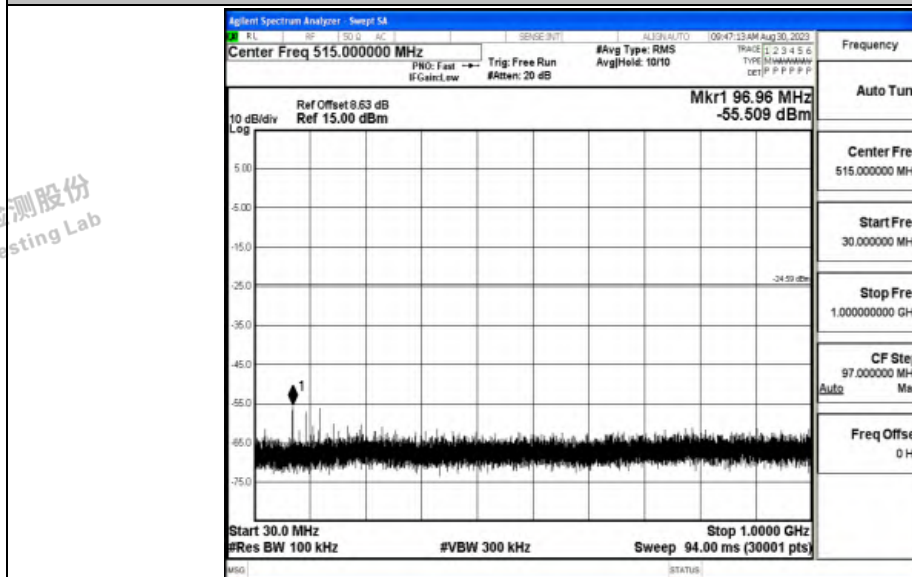
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3DH5_Ant_2480_30~1000



3DH5_Ant_2480_1000~26500

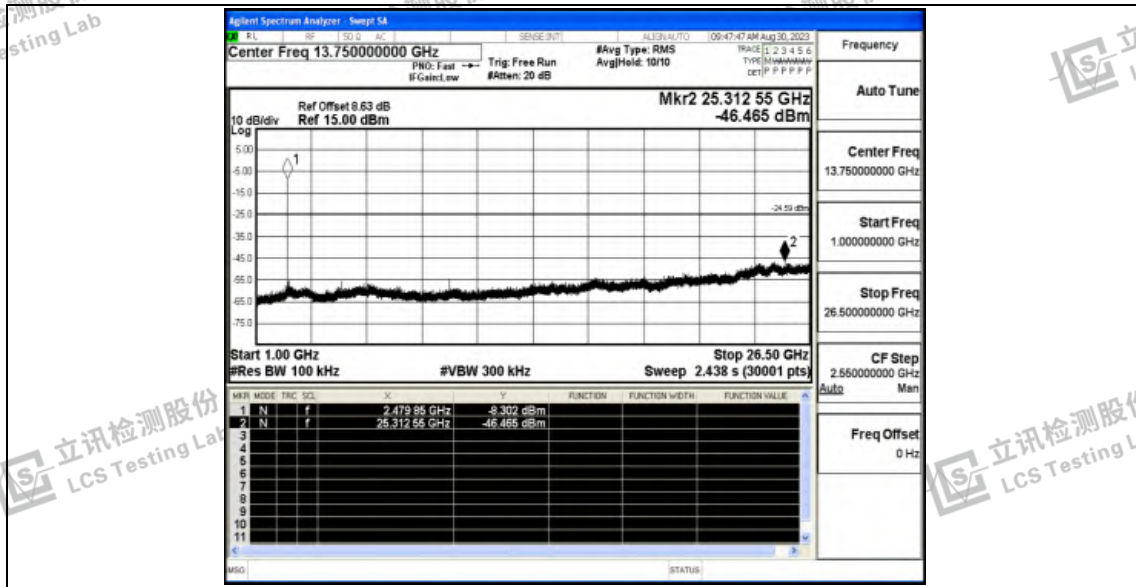


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant	Low	2402	AV	2310.000	-48.18	≤-41.20	47.02	≤54	PASS
				AV	2378.120	-46.3	≤-41.20	48.90	≤54	PASS
				AV	2390.000	-47.46	≤-41.20	47.74	≤54	PASS
				Peak	2310.000	-42.06	≤-21.20	53.14	≤74	PASS
				Peak	2386.205	-38.05	≤-21.20	57.15	≤74	PASS
				Peak	2390.000	-41.16	≤-21.20	54.04	≤74	PASS
		High	2480	AV	2483.500	-47.09	≤-41.20	48.11	≤54	PASS
				AV	2499.440	-46.72	≤-41.20	48.48	≤54	PASS
				AV	2500.000	-46.81	≤-41.20	48.39	≤54	PASS
				Peak	2483.500	-41.89	≤-21.20	53.31	≤74	PASS
				Peak	2496.000	-38.48	≤-21.20	56.72	≤74	PASS
				Peak	2500.000	-38.7	≤-21.20	56.50	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.54	≤-21.20	54.66	≤74	PASS
				Peak	2378.855	-37.23	≤-21.20	57.97	≤74	PASS
				Peak	2390.000	-38.95	≤-21.20	56.25	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.76	≤-21.20	55.44	≤74	PASS
				Peak	2493.840	-36.33	≤-21.20	58.87	≤74	PASS
				Peak	2500.000	-38.88	≤-21.20	56.32	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-48.08	≤-41.20	47.12	≤54	PASS
				AV	2378.330	-46.78	≤-41.20	48.42	≤54	PASS
				AV	2390.000	-47.52	≤-41.20	47.68	≤54	PASS
				Peak	2310.000	-42.7	≤-21.20	52.50	≤74	PASS
				Peak	2364.050	-38.58	≤-21.20	56.62	≤74	PASS
				Peak	2390.000	-42.75	≤-21.20	52.45	≤74	PASS
		High	2480	AV	2483.500	-47.11	≤-41.20	48.09	≤54	PASS
				AV	2497.840	-46.78	≤-41.20	48.42	≤54	PASS
				AV	2500.000	-46.82	≤-41.20	48.38	≤54	PASS
				Peak	2483.500	-39.9	≤-21.20	55.30	≤74	PASS
				Peak	2493.840	-36.8	≤-21.20	58.40	≤74	PASS
				Peak	2500.000	-38.76	≤-21.20	56.44	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-37.77	≤-21.20	57.43	≤74	PASS
				Peak	2339.690	-37.03	≤-21.20	58.17	≤74	PASS
				Peak	2390.000	-39.97	≤-21.20	55.23	≤74	PASS
		High	Hop_24	Peak	2483.500	-39.63	≤-21.20	55.57	≤74	PASS



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3DH5	Ant		80	Peak	2484.320	-36.6	≤-21.20	58.60	≤74	PASS
				Peak	2500.000	-39.17	≤-21.20	56.03	≤74	PASS
		Low	2402	AV	2310.000	-47.98	≤-41.20	47.22	≤54	PASS
				AV	2378.015	-46.76	≤-41.20	48.44	≤54	PASS
				AV	2390.000	-47.37	≤-41.20	47.83	≤54	PASS
				Peak	2310.000	-42.54	≤-21.20	52.66	≤74	PASS
				Peak	2379.590	-38.46	≤-21.20	56.74	≤74	PASS
				Peak	2390.000	-40.04	≤-21.20	55.16	≤74	PASS
		High	2480	AV	2483.500	-47.18	≤-41.20	48.02	≤54	PASS
				AV	2498.080	-46.77	≤-41.20	48.43	≤54	PASS
				AV	2500.000	-46.83	≤-41.20	48.37	≤54	PASS
				Peak	2483.500	-42.22	≤-21.20	52.98	≤74	PASS
				Peak	2485.680	-38.4	≤-21.20	56.80	≤74	PASS
				Peak	2500.000	-41.34	≤-21.20	53.86	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.08	≤-21.20	55.12	≤74	PASS
				Peak	2358.590	-38.06	≤-21.20	57.14	≤74	PASS
				Peak	2390.000	-39.13	≤-21.20	56.07	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.78	≤-21.20	55.42	≤74	PASS
				Peak	2484.400	-37.03	≤-21.20	58.17	≤74	PASS
				Peak	2500.000	-37.63	≤-21.20	57.57	≤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

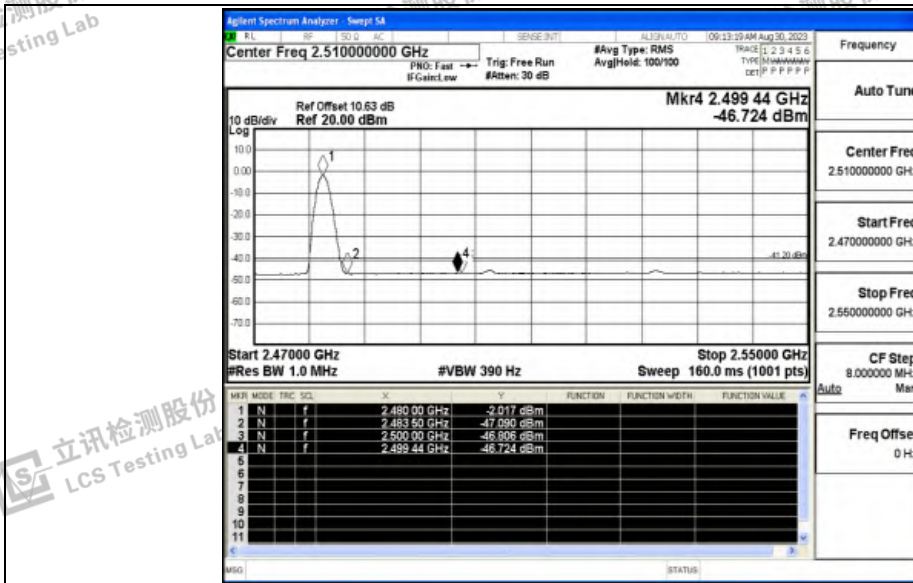


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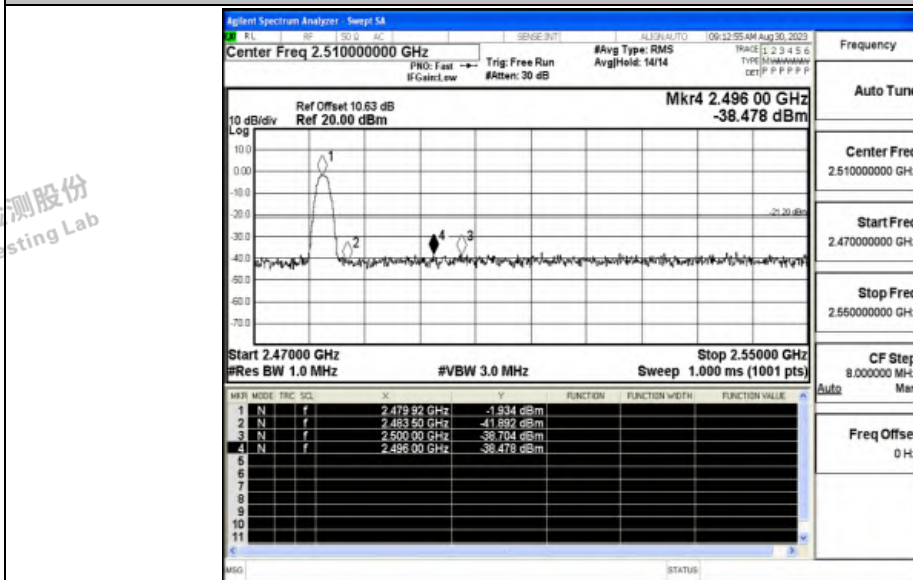
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DH5_Ant_High_2480_Peak



DH5_Ant_Low_Hop_2402_Peak

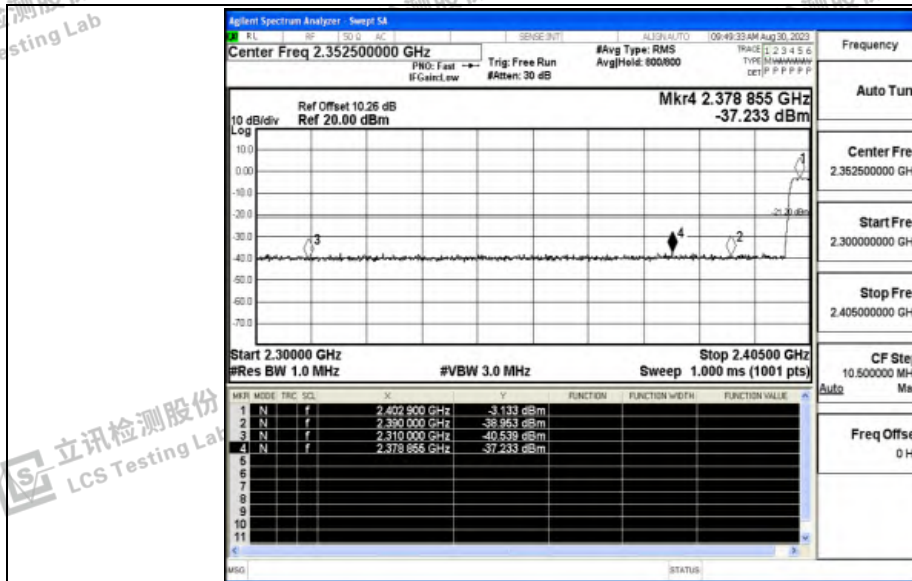


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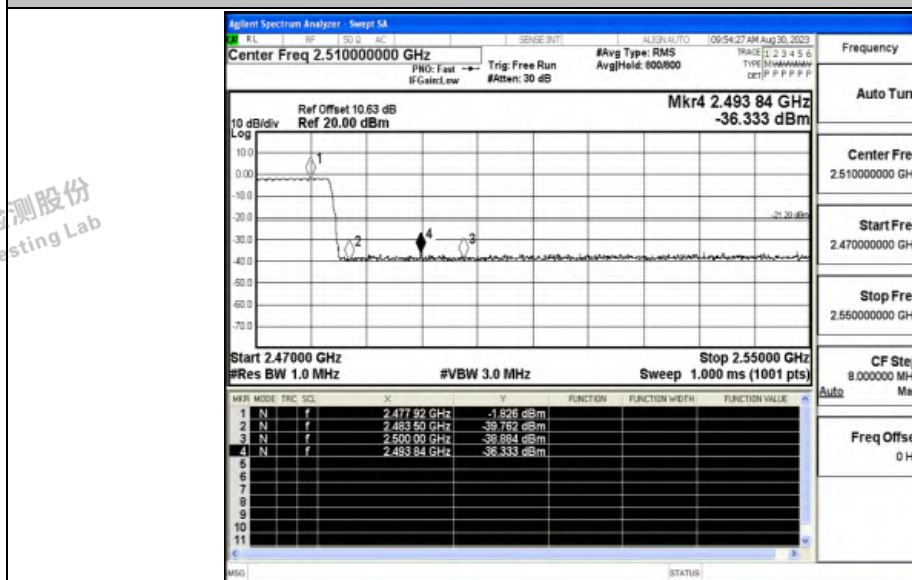
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DH5_Ant_High_Hop_2480_Peak



2DH5_Ant_Low_2402_AV

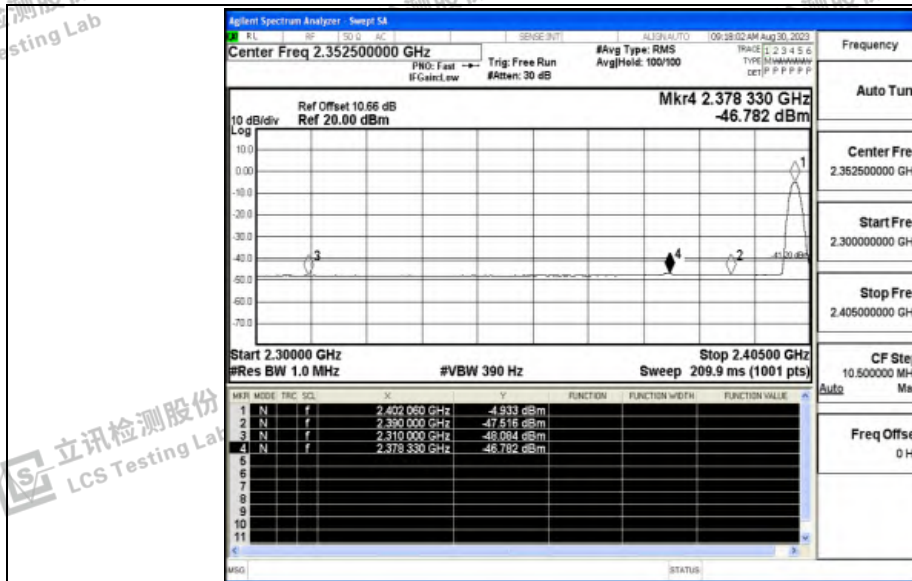


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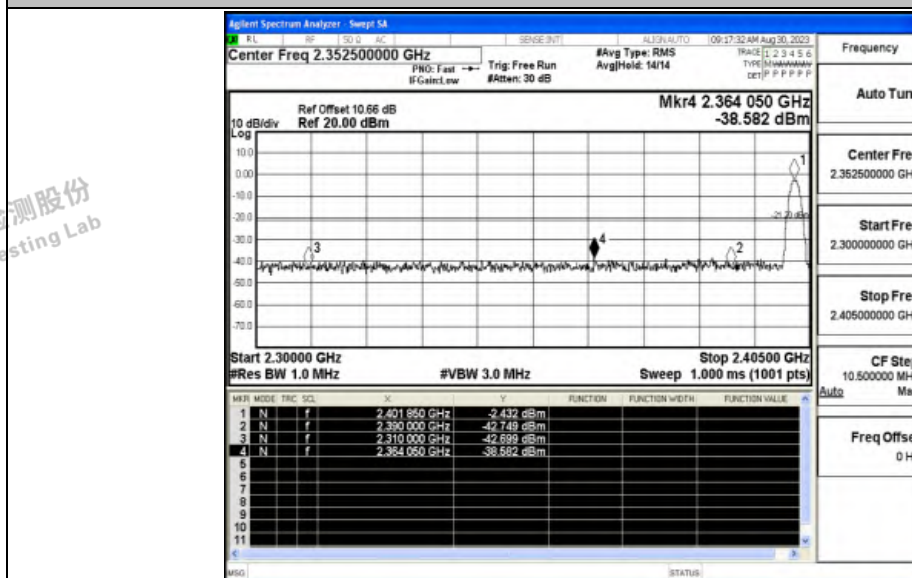
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2DH5_Ant_Low_2402_Peak



2DH5_Ant_High_2480_AV

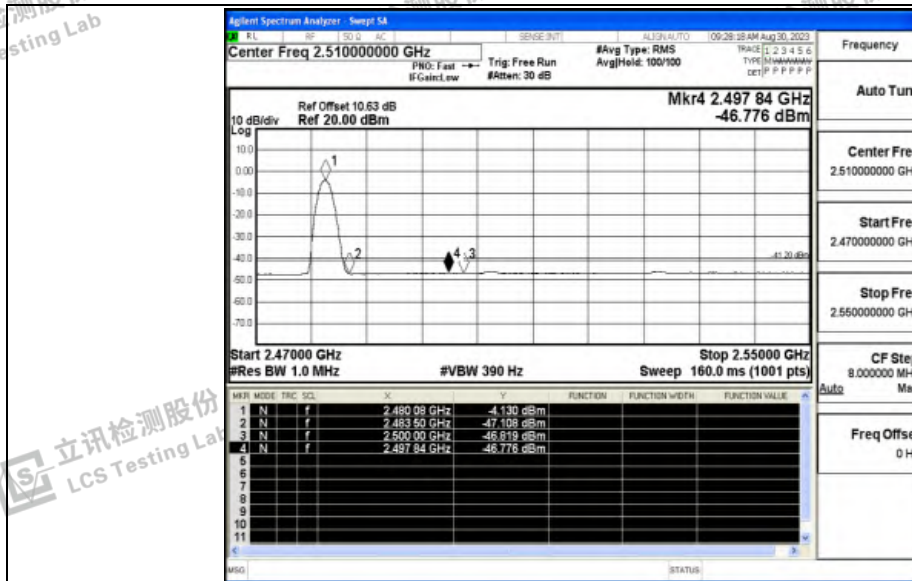


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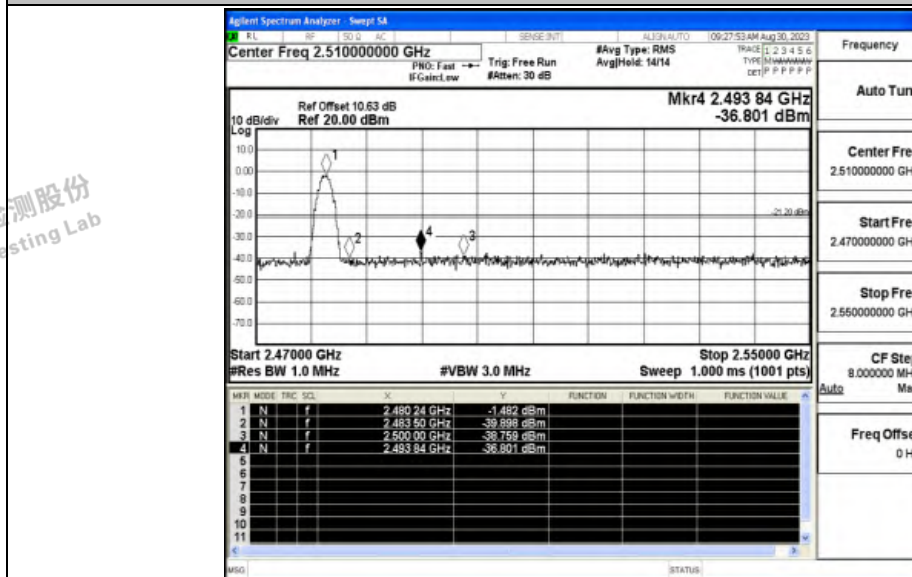
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2DH5_Ant_High_2480_Peak



2DH5_Ant_Low_Hop_2402_Peak

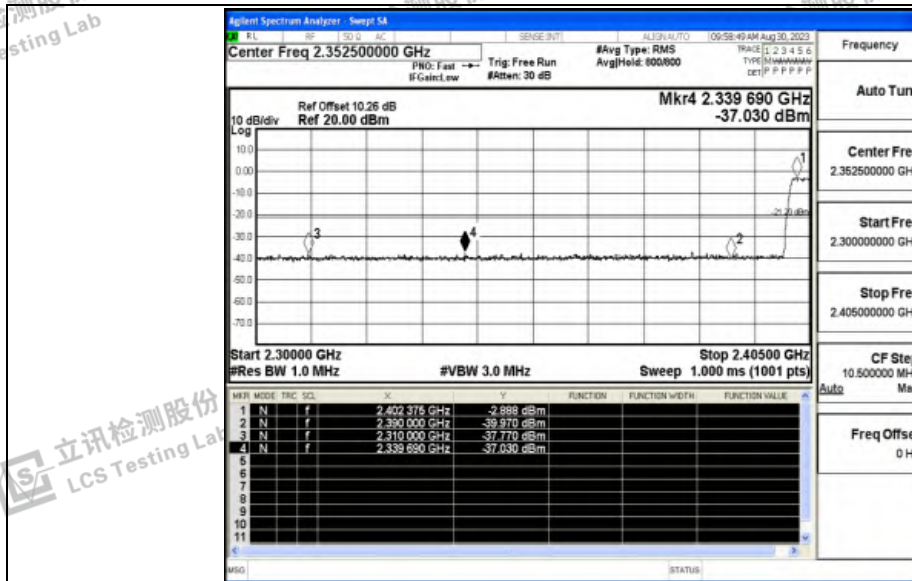


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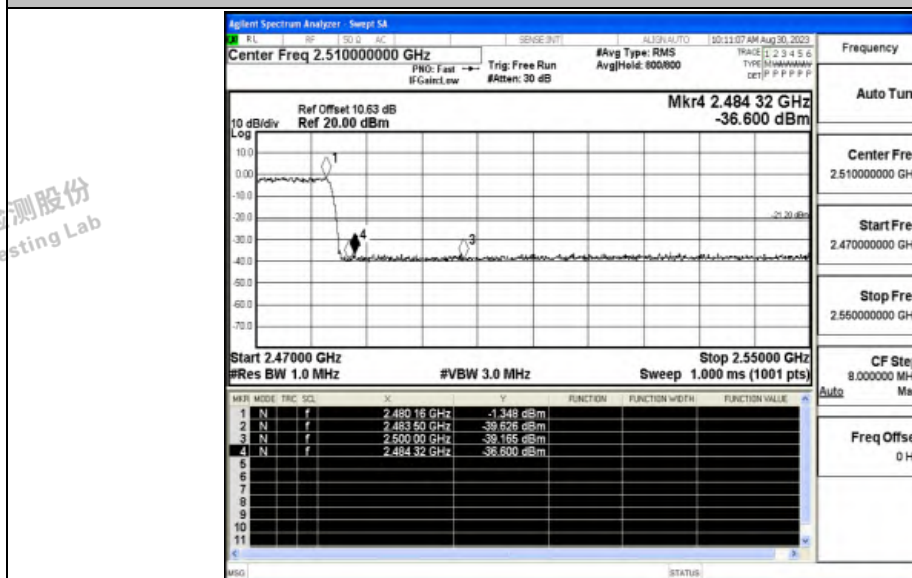
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2DH5_Ant_High_Hop_2480_Peak



3DH5_Ant_Low_2402_AV

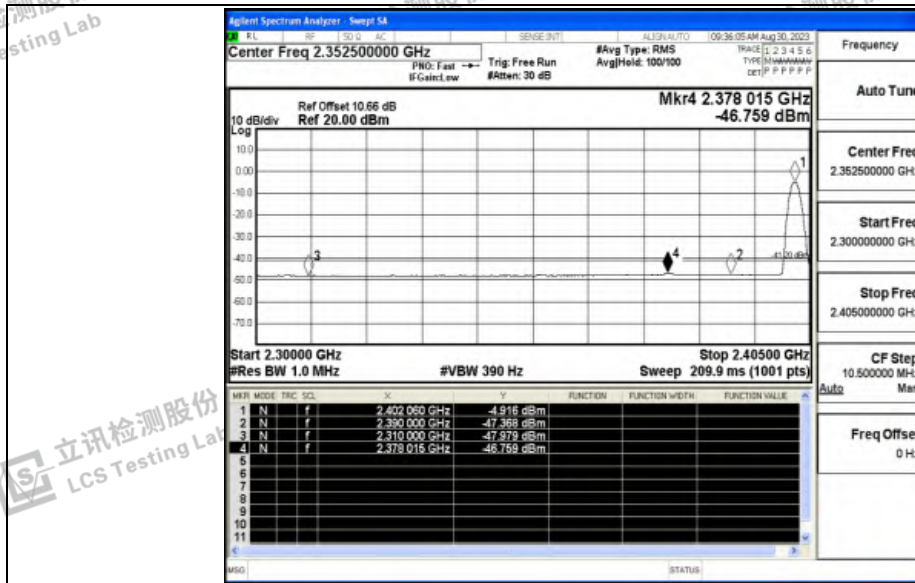


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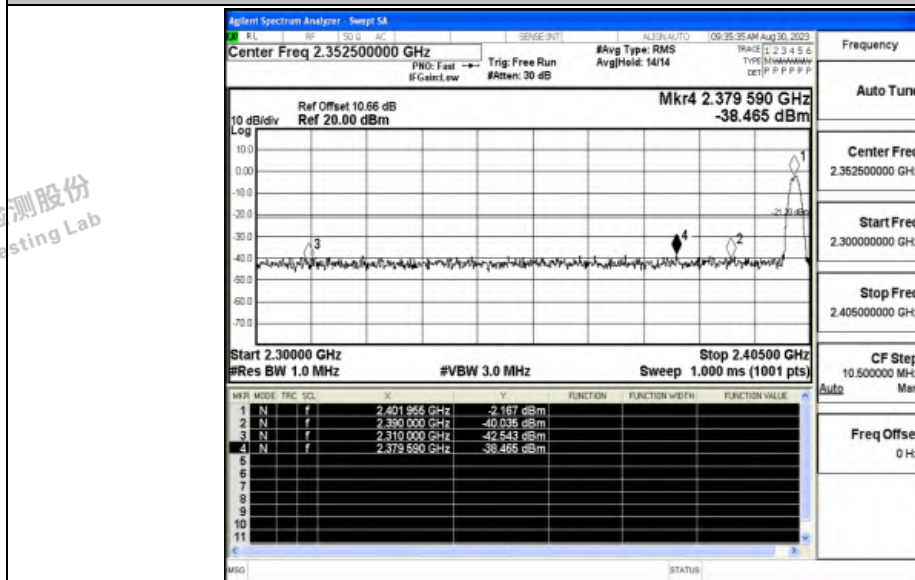
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3DH5_Ant_Low_2402_Peak



3DH5_Ant_High_2480_AV

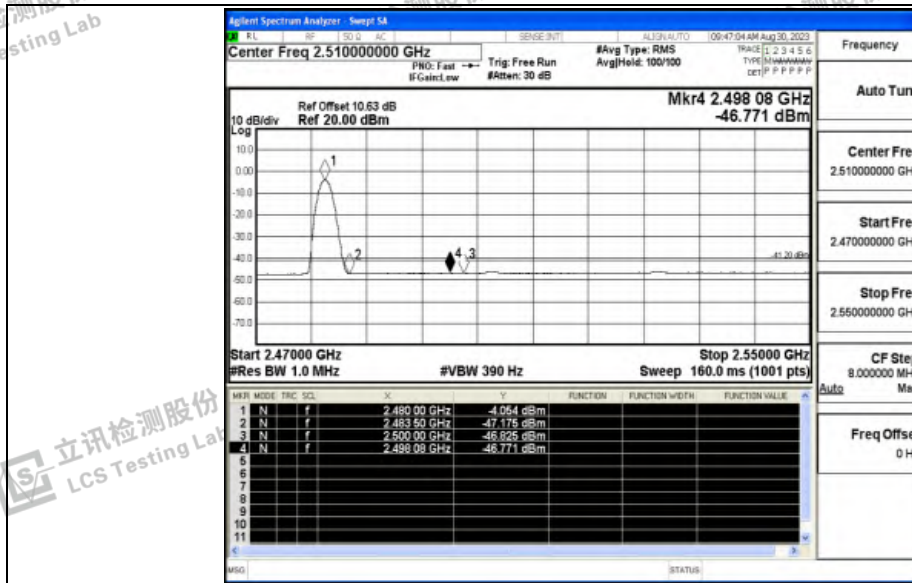


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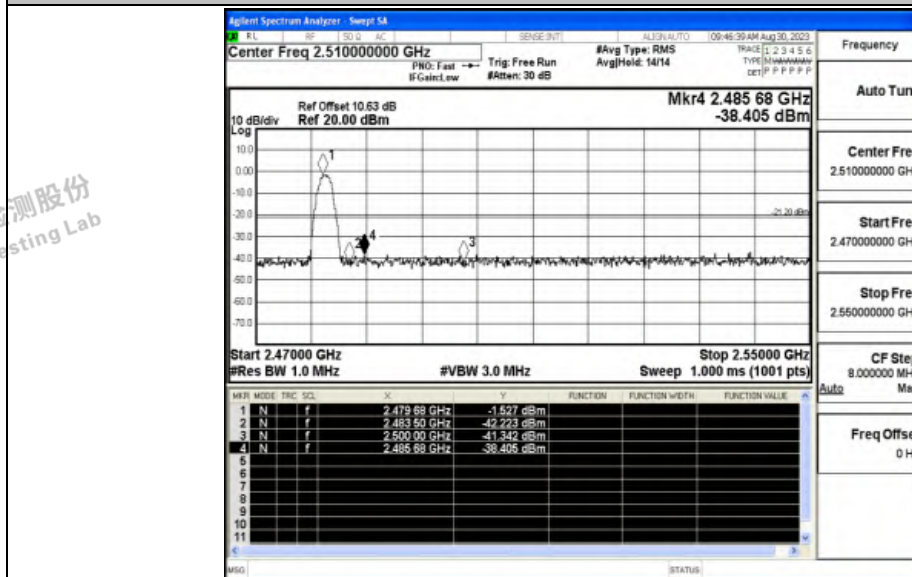
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3DH5_Ant_High_2480_Peak



3DH5_Ant_Low_Hop_2402_Peak

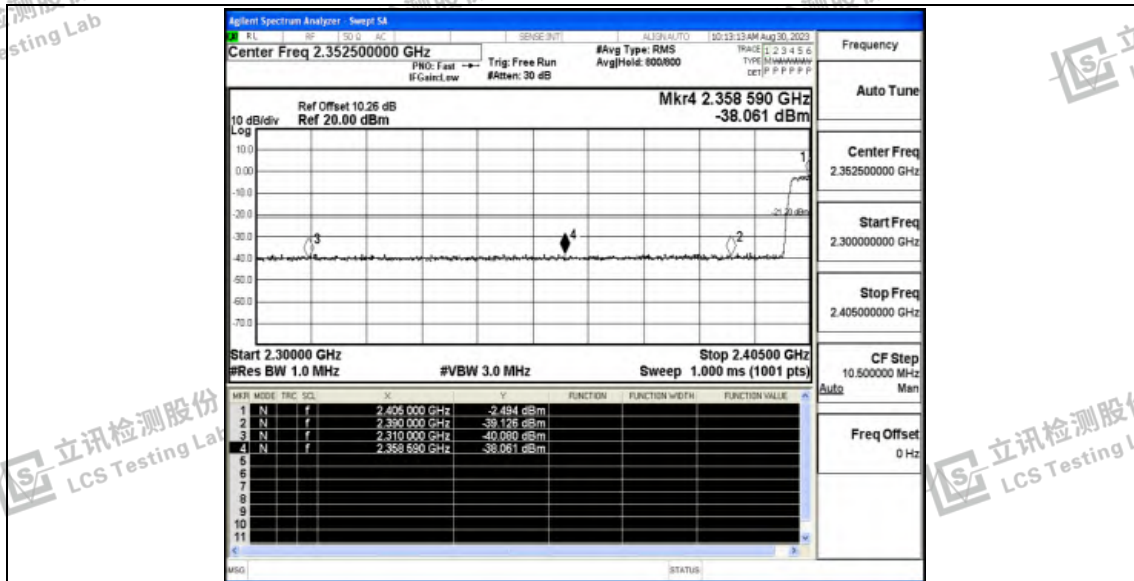


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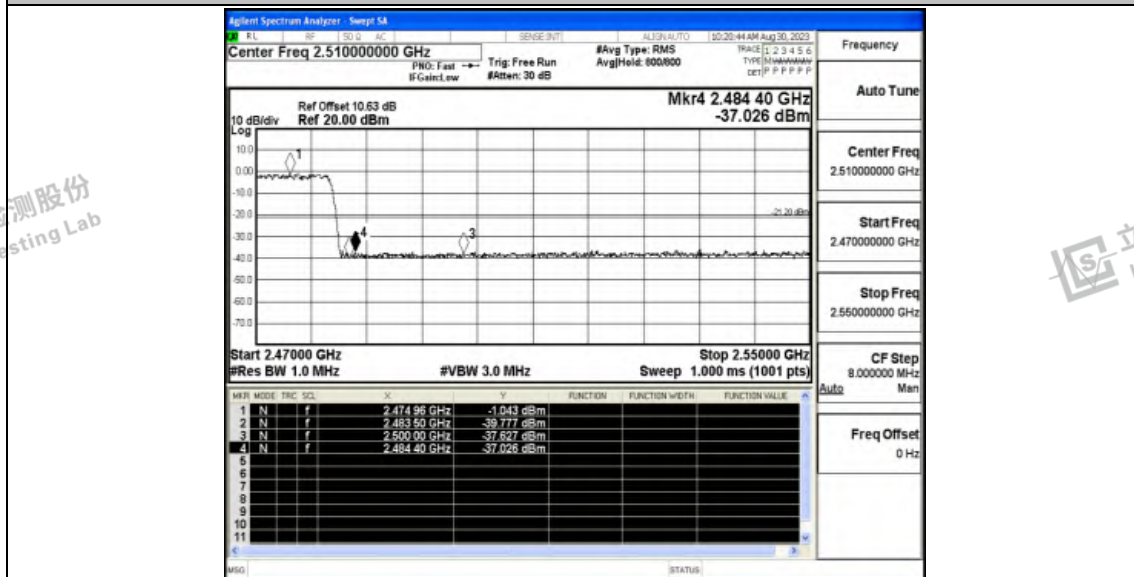
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3DH5_Ant_High_Hop_2480_Peak



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