



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: GNSS Receiver

Test Model: Mars

Environmental Conditions

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





A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.038	2401.460	2402.498	---
		2441	1.023	2440.460	2441.483	---
		2480	1.011	2479.457	2480.468	---
2DH5	Ant1	2402	1.284	2401.355	2402.639	---
		2441	1.299	2440.349	2441.648	---
		2480	1.353	2479.316	2480.669	---
3DH5	Ant1	2402	1.305	2401.337	2402.642	---
		2441	1.296	2440.340	2441.636	---
		2480	1.326	2479.331	2480.657	---





Test Graphs

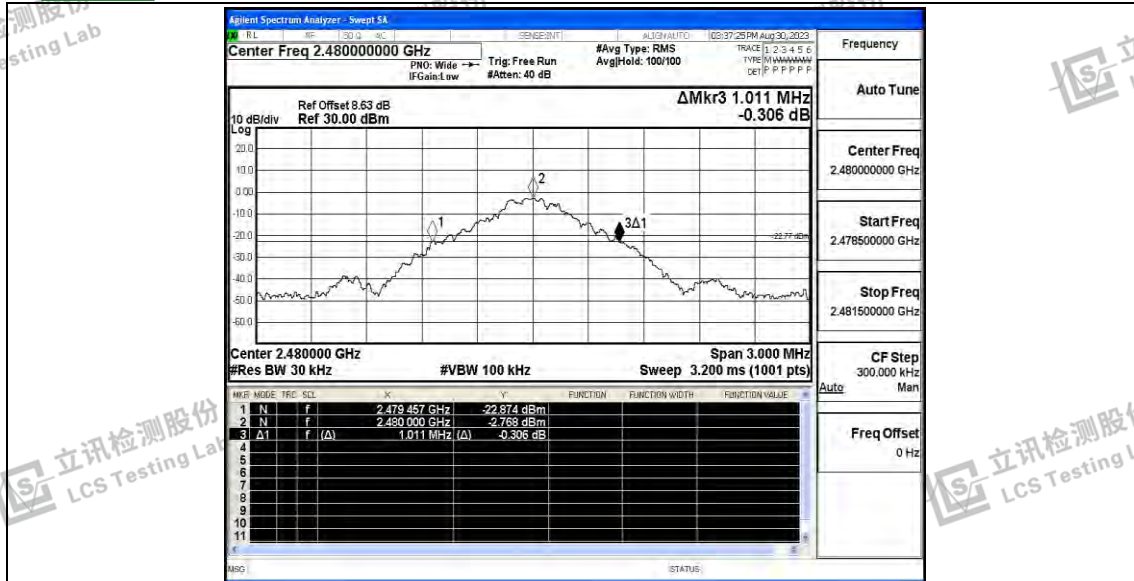


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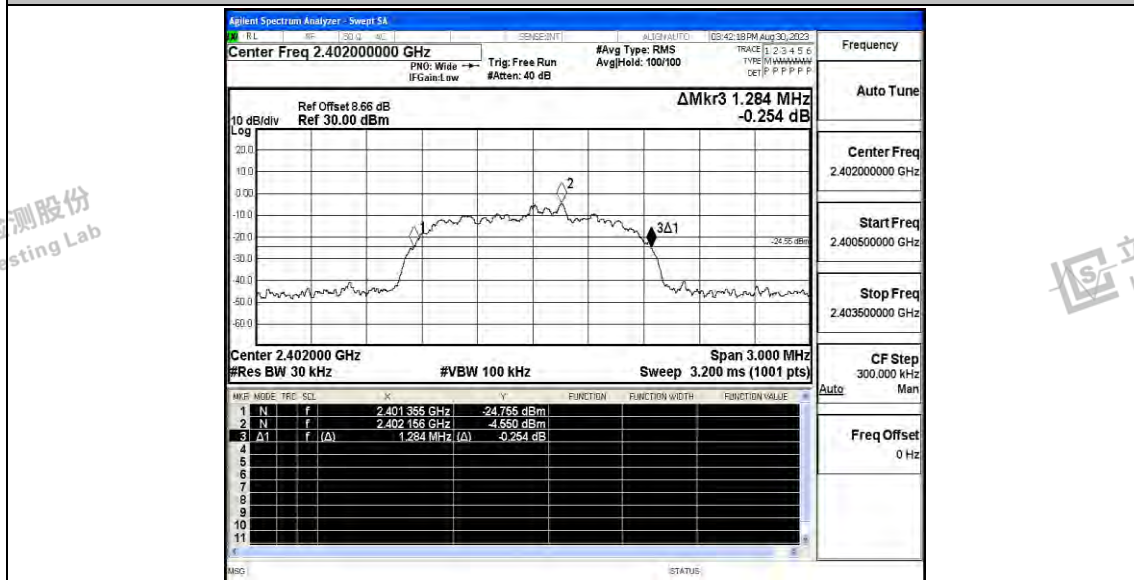
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2DH5_Ant1_2402



2DH5_Ant1_2441

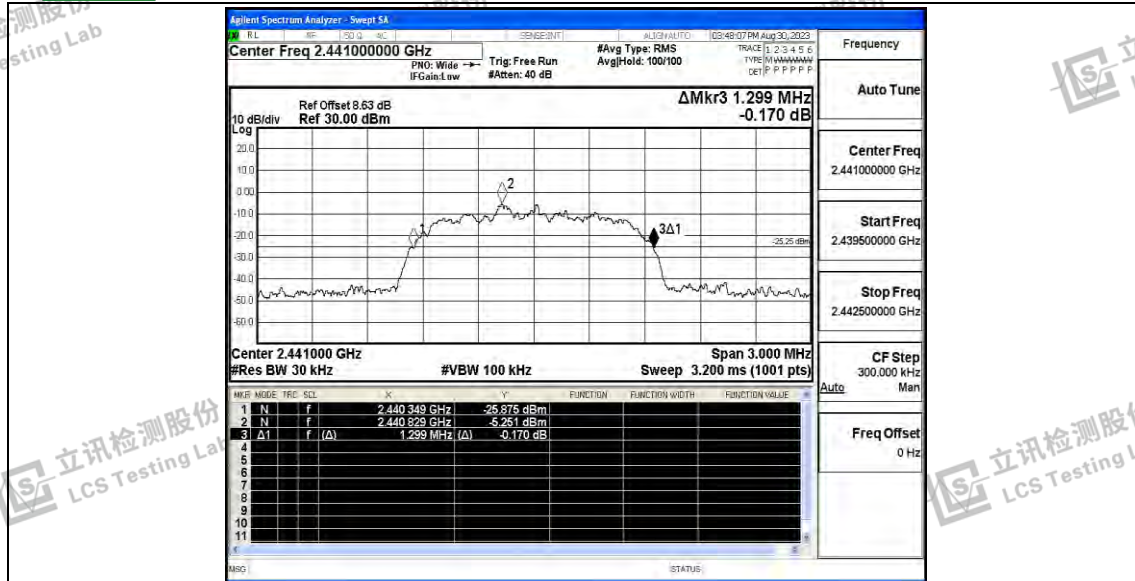


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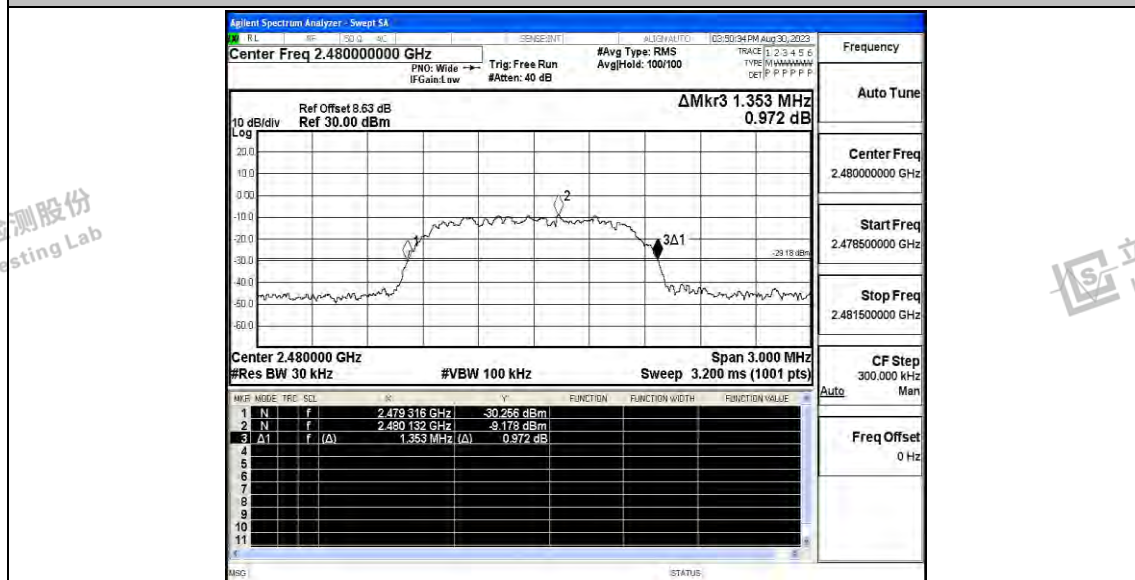
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2DH5_Ant1_2480



3DH5_Ant1_2402

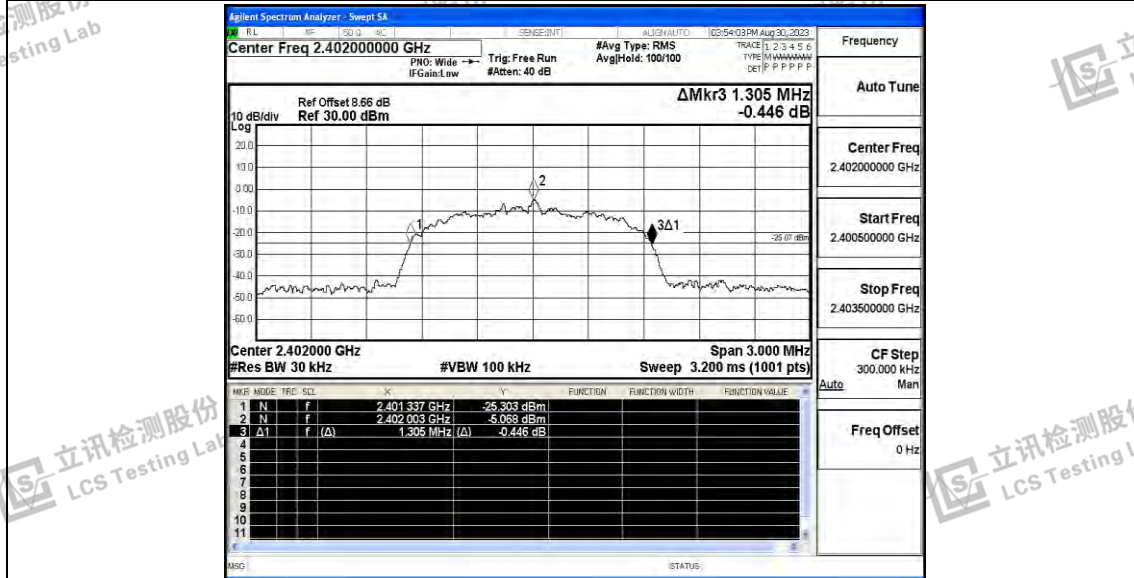


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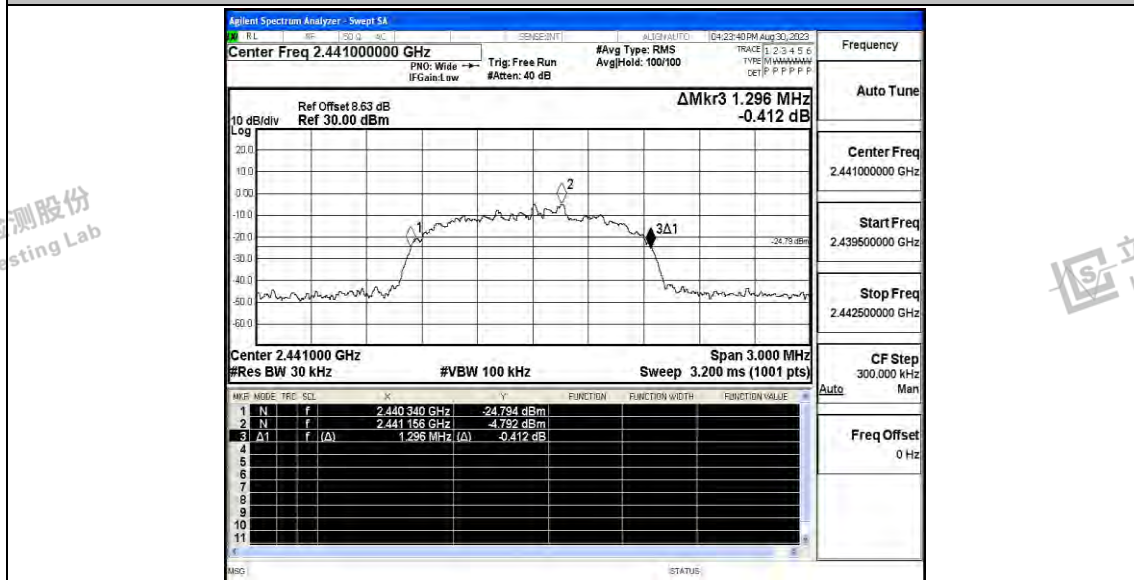
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant1_2441



3DH5_Ant1_2480

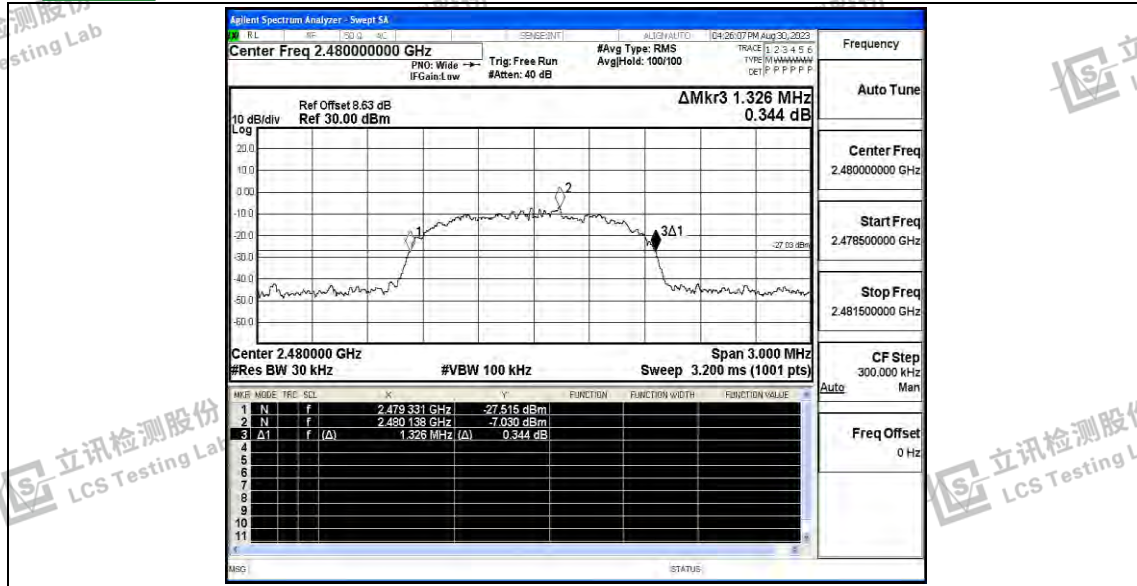


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.24	≤21	PASS
		2441	0.34	≤21	PASS
		2480	0.27	≤21	PASS
2DH5	Ant1	2402	0.03	≤21	PASS
		2441	0.02	≤21	PASS
		2480	-0.05	≤21	PASS
3DH5	Ant1	2402	0.1	≤21	PASS
		2441	0.19	≤21	PASS
		2480	0.14	≤21	PASS



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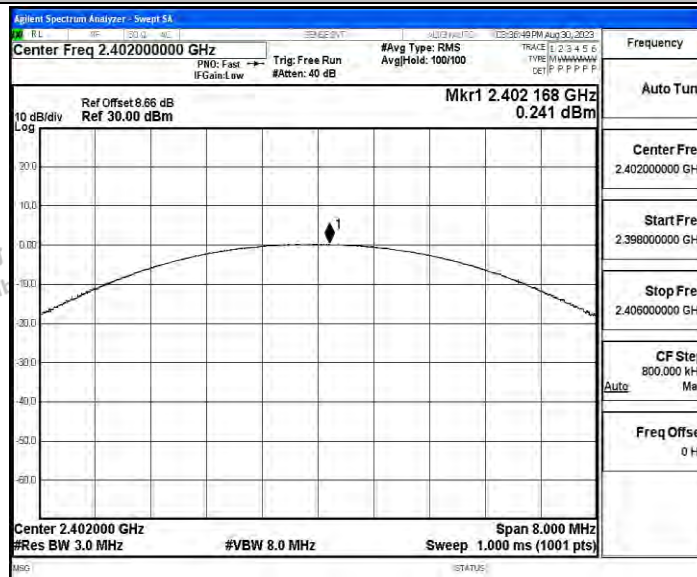
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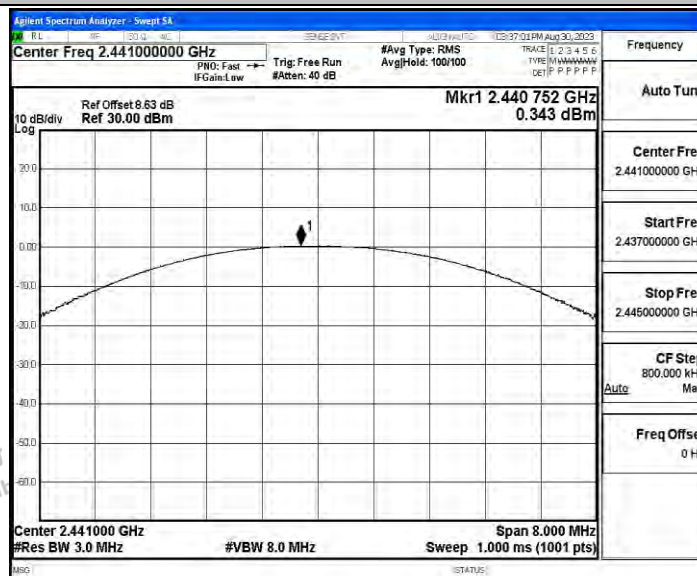


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

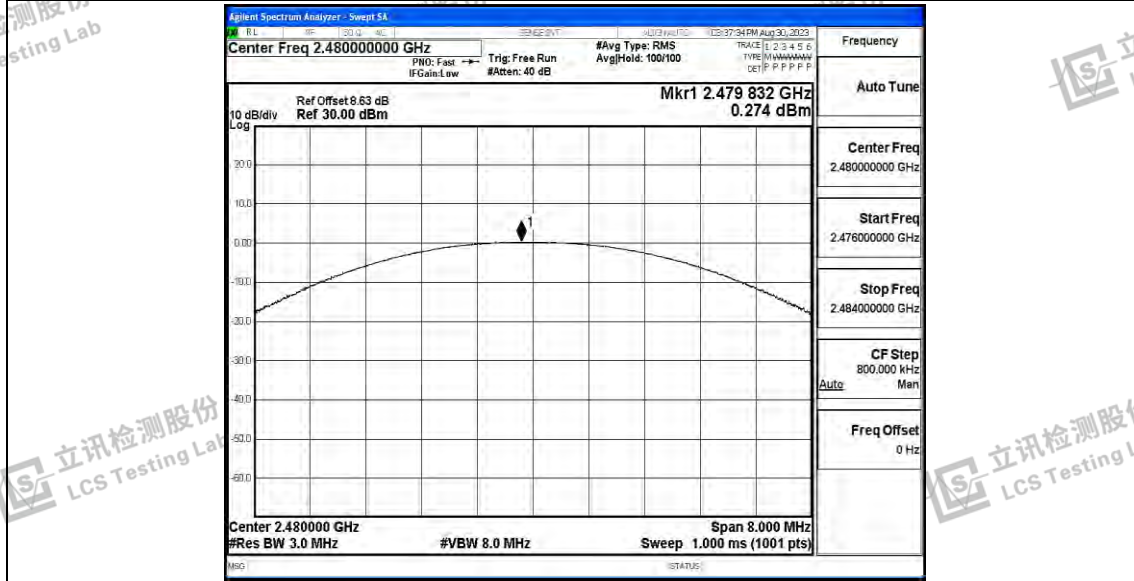


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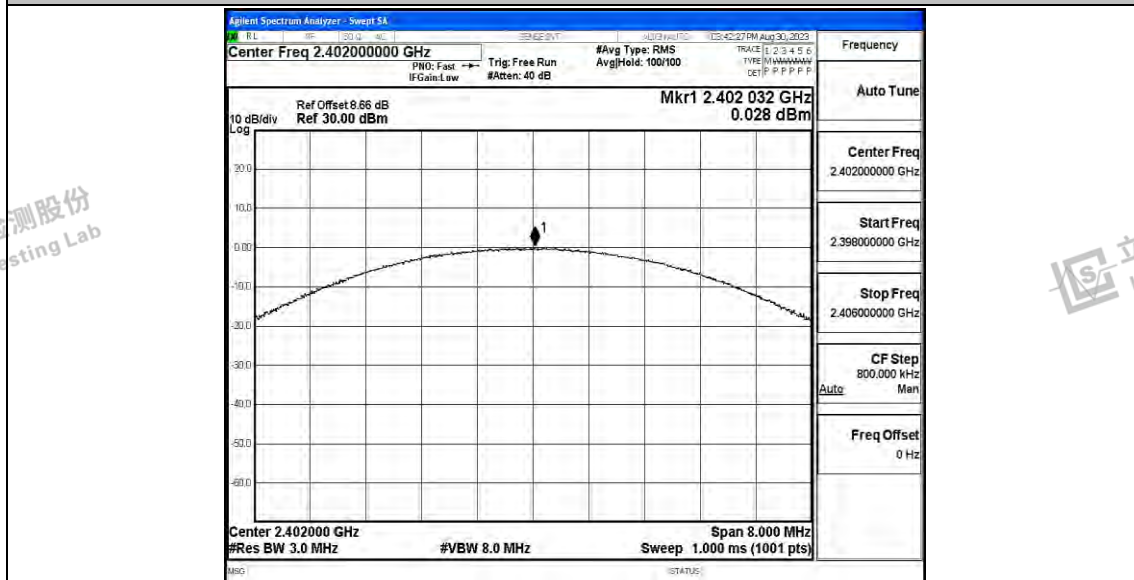
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2DH5_Ant1_2402



2DH5_Ant1_2441

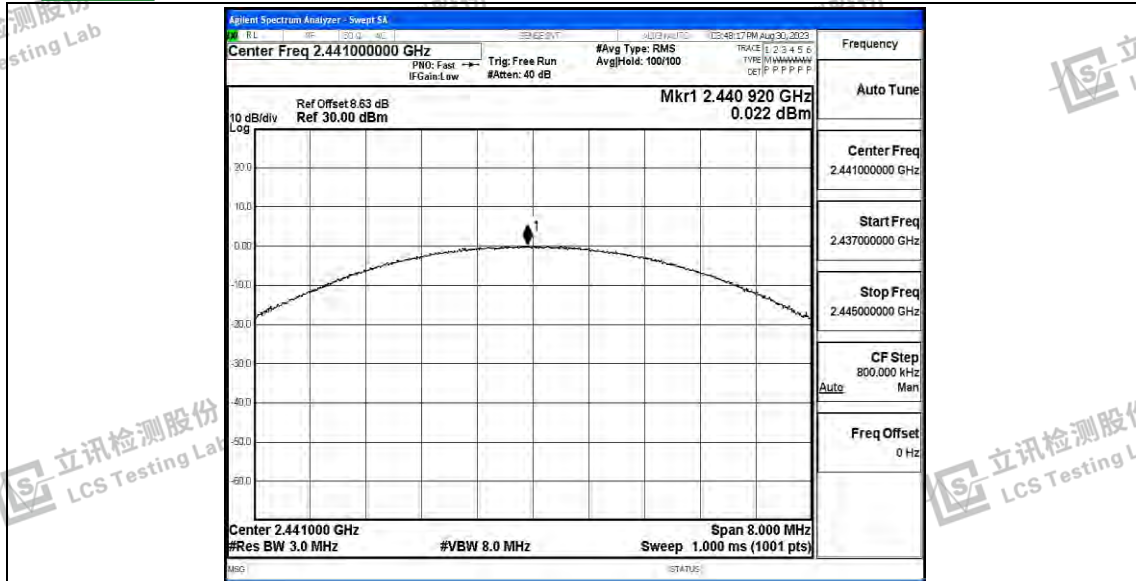


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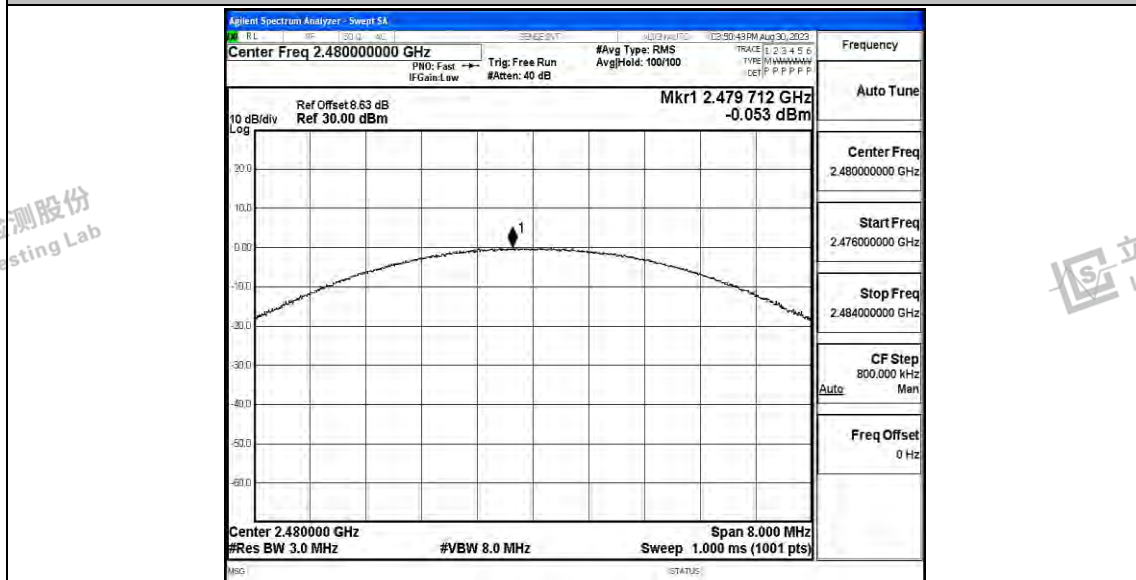
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2DH5_Ant1_2480



3DH5_Ant1_2402

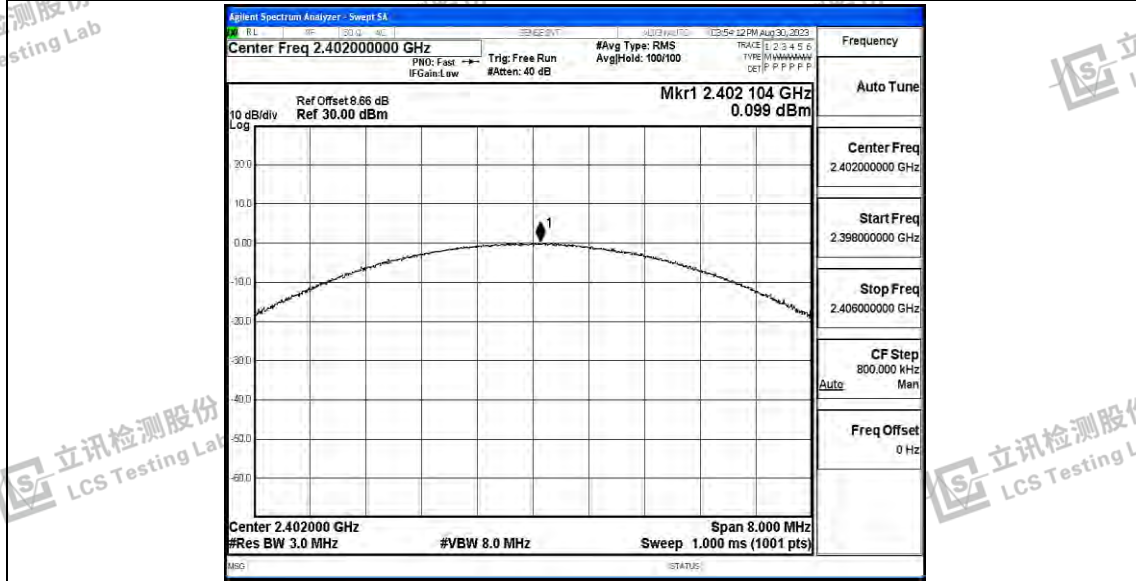


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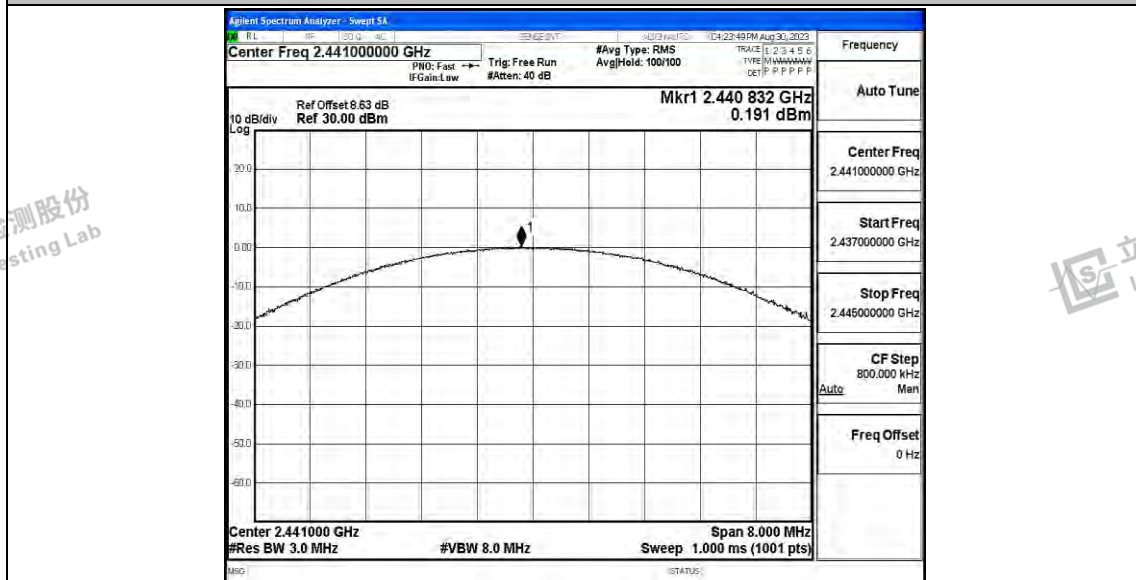
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3DH5_Ant1_2441



3DH5_Ant1_2480

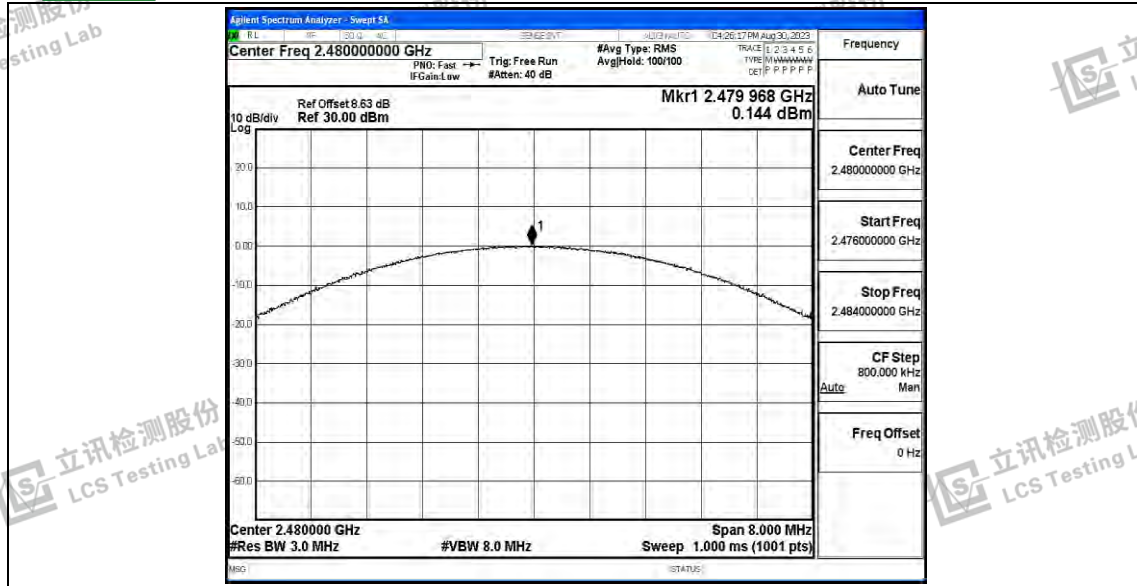


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A.3 Carrier frequency separation

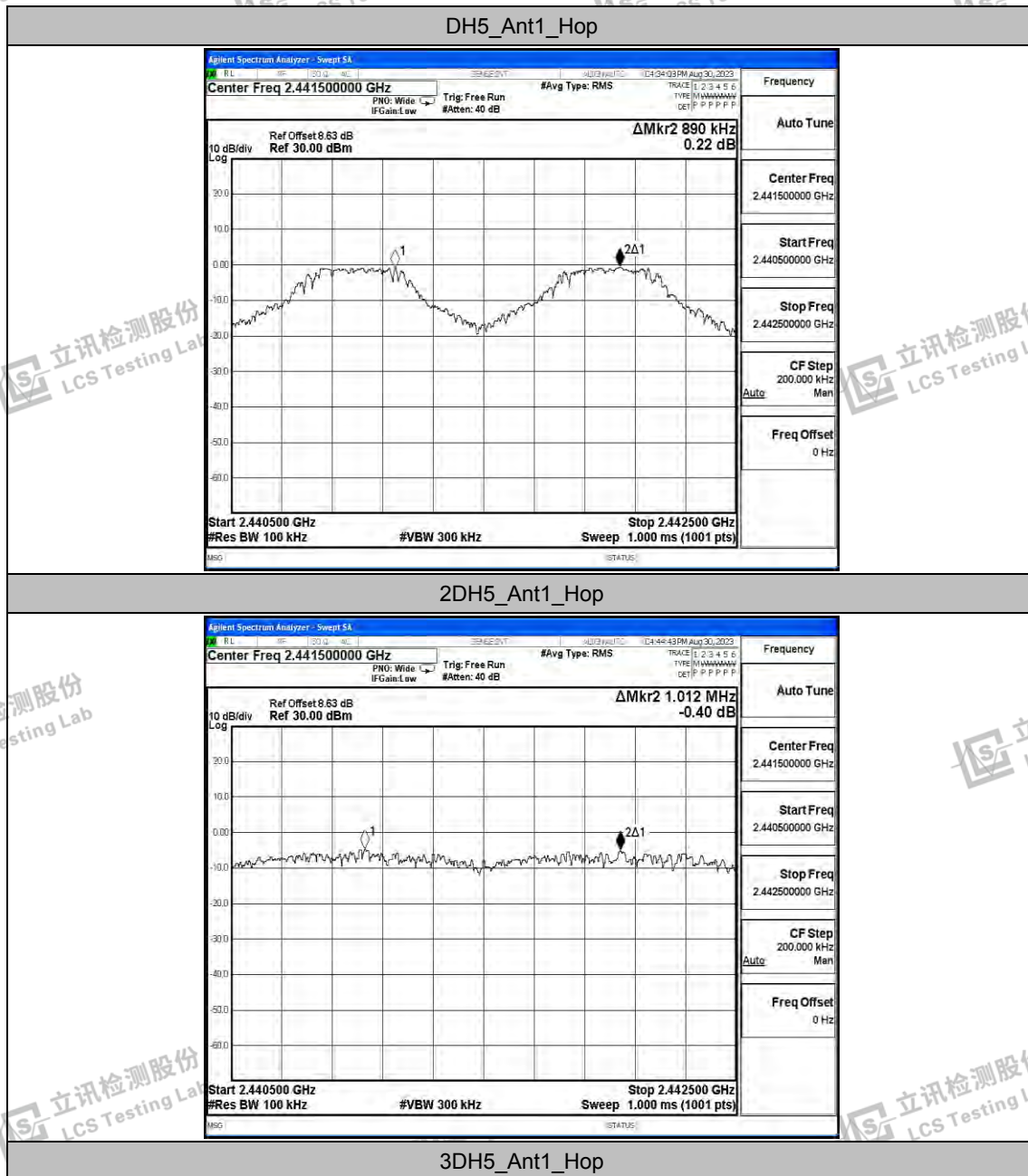
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.89	≥0.692	PASS
2DH5	Ant1	Hop	1.012	≥0.902	PASS
3DH5	Ant1	Hop	0.994	≥0.884	PASS





Test Graphs

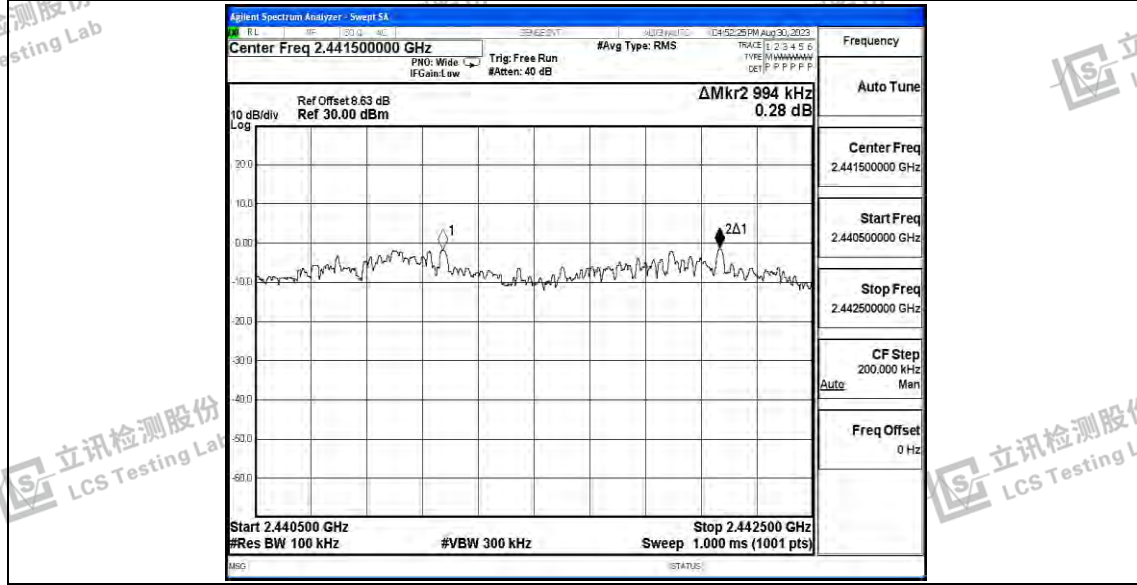


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A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	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	2.885	106.67	0.308	≤0.4	PASS



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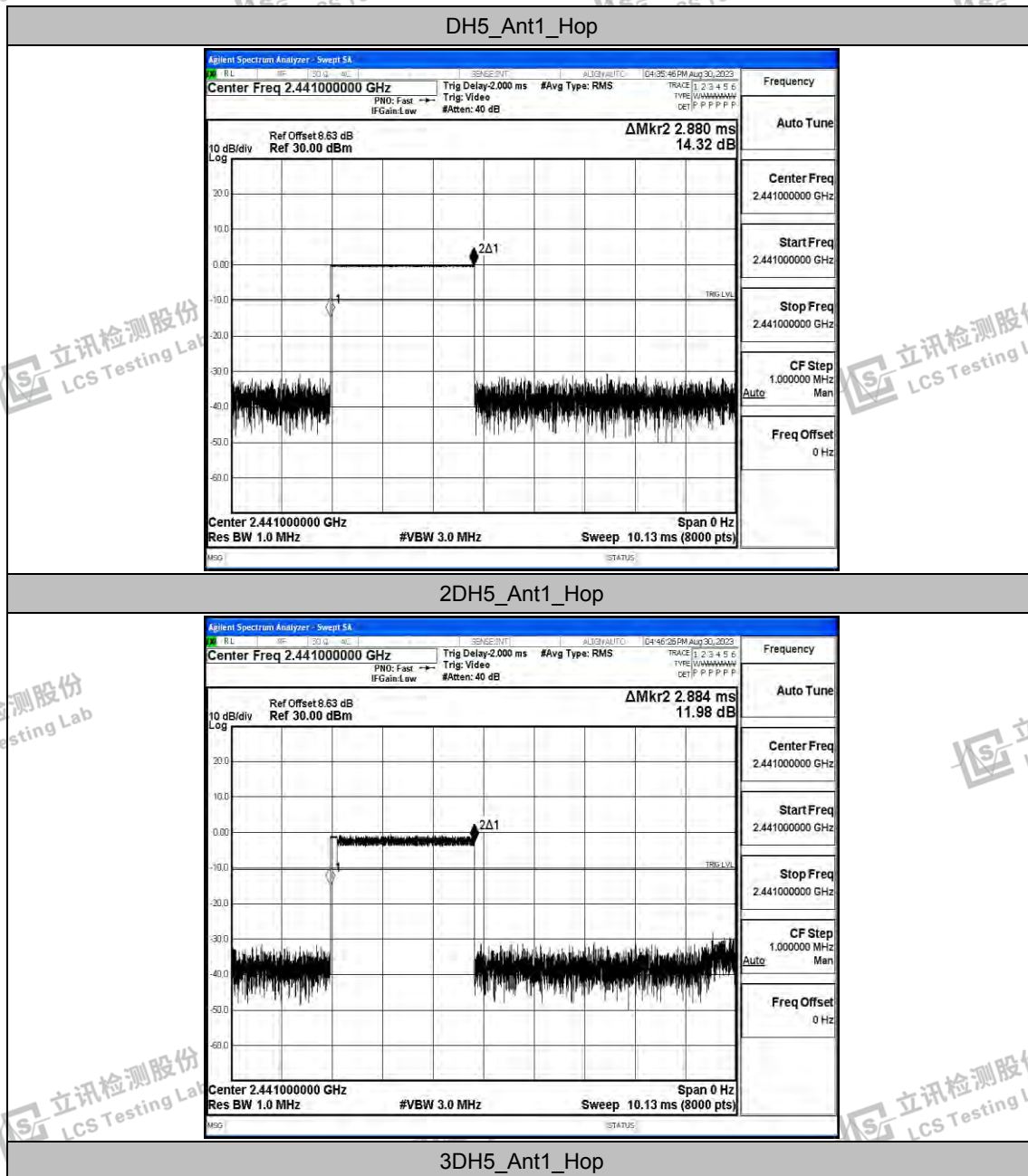
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Test Graphs

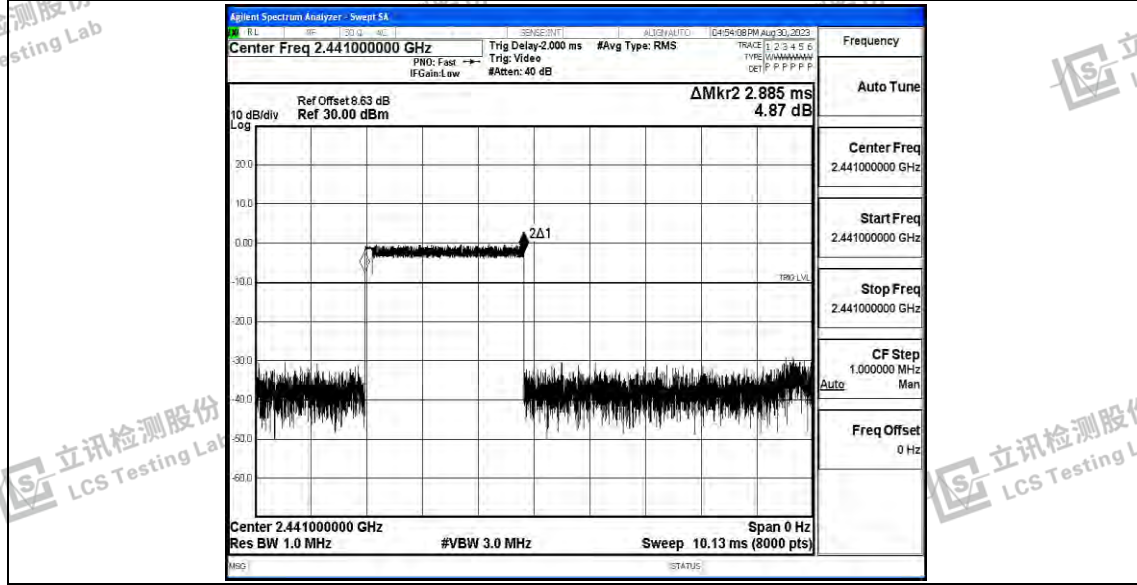


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A.5 Number of hopping channels

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



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Test Graphs

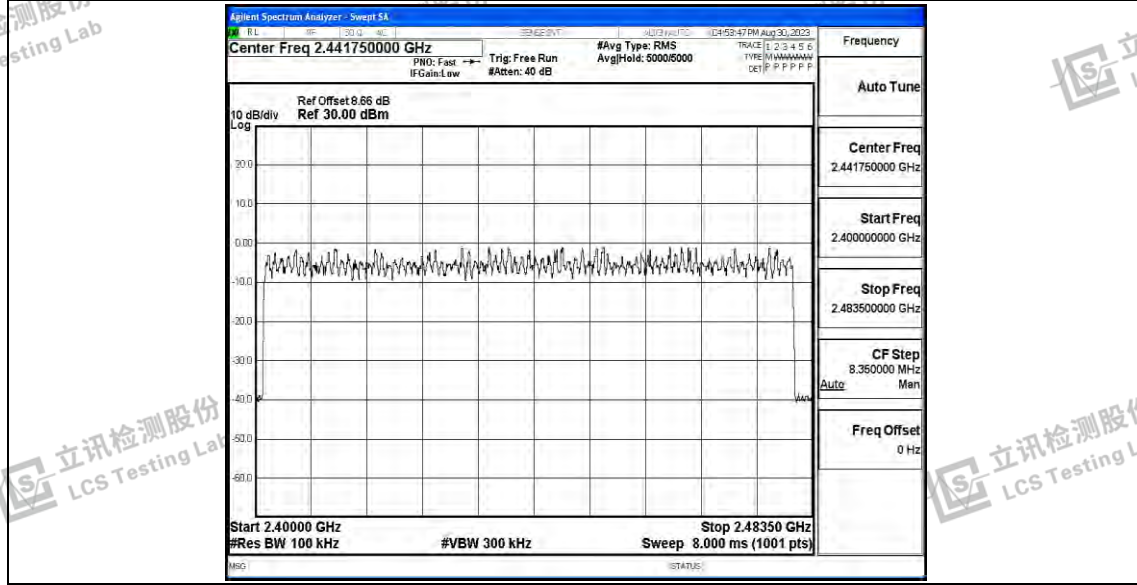


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.53	-49.79	≤ -17.47	PASS
		High	2480	-1.16	-49.05	≤ -21.16	PASS
		Low	Hop_2402	-1.02	-49.08	≤ -21.02	PASS
		High	Hop_2480	-0.28	-47.48	≤ -20.28	PASS
2DH5	Ant1	Low	2402	-3.62	-48.75	≤ -23.62	PASS
		High	2480	-6.00	-47.86	≤ -26	PASS
		Low	Hop_2402	-5.45	-49.02	≤ -25.45	PASS
		High	Hop_2480	-2.36	-47.73	≤ -22.36	PASS
3DH5	Ant1	Low	2402	-1.23	-49.82	≤ -21.23	PASS
		High	2480	-5.39	-49.06	≤ -25.39	PASS
		Low	Hop_2402	-2.96	-49.08	≤ -22.96	PASS
		High	Hop_2480	-2.60	-48.07	≤ -22.6	PASS



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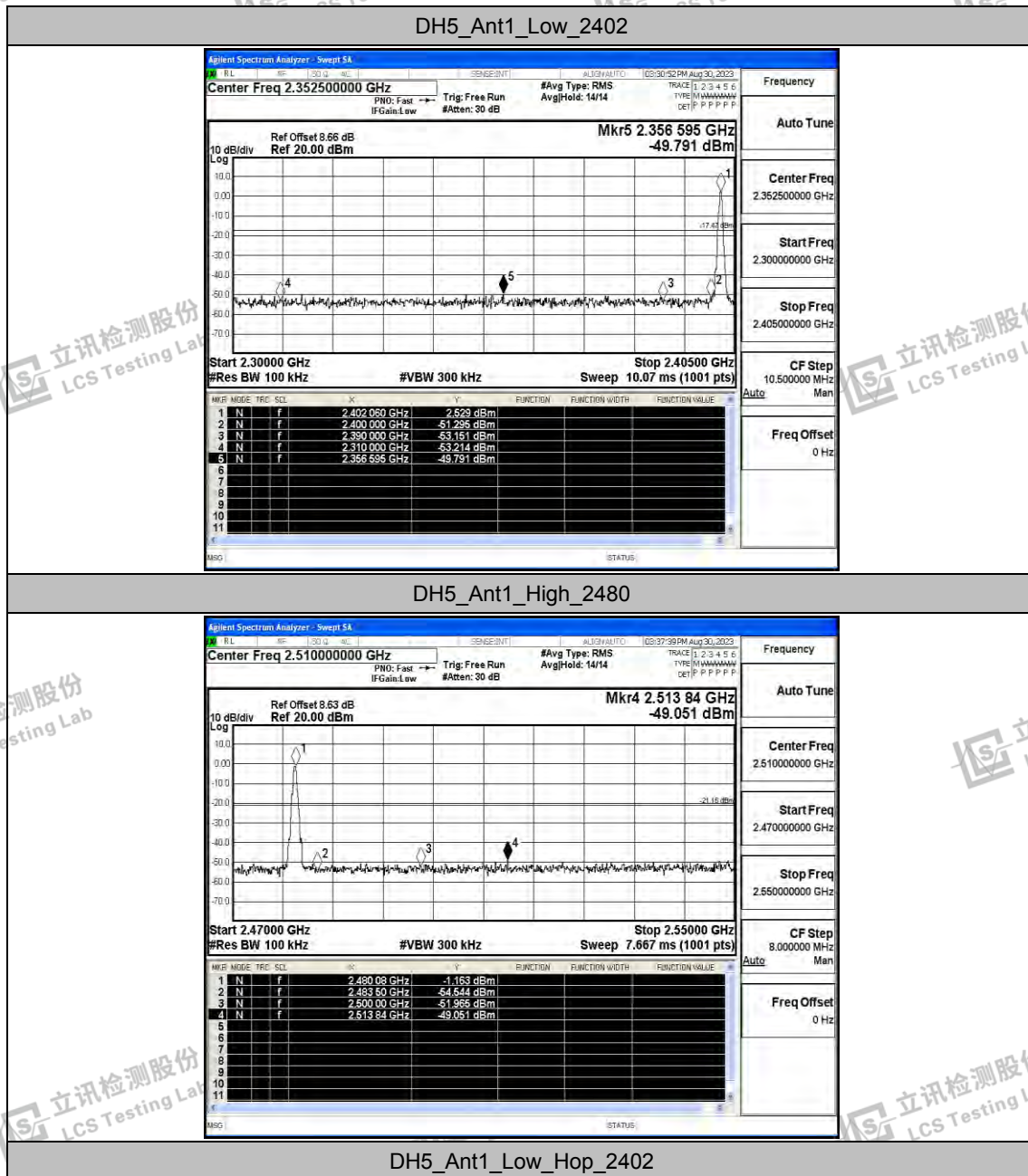
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Test Graphs

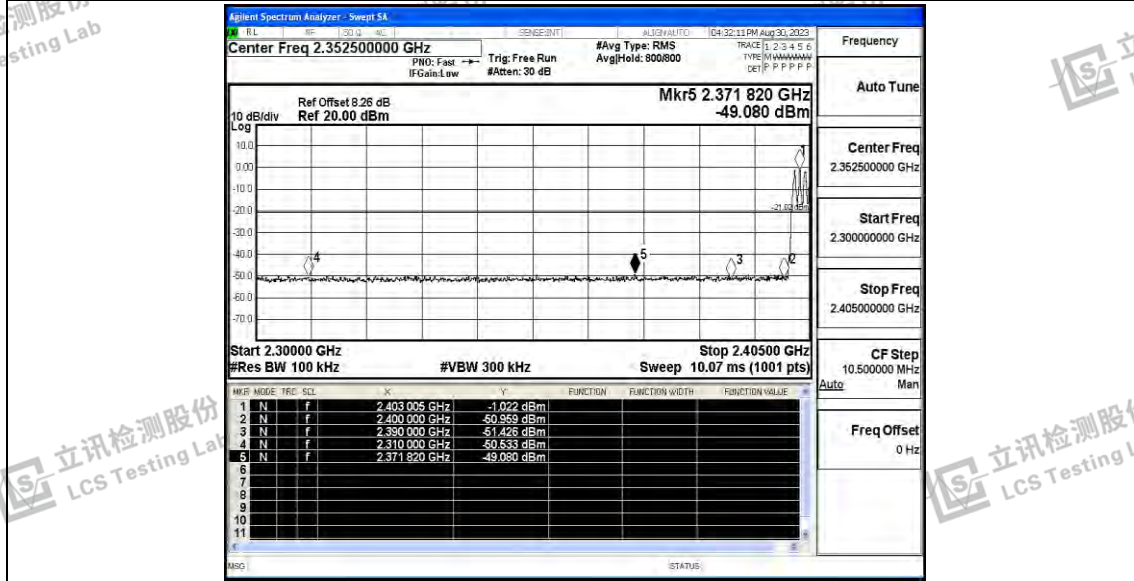


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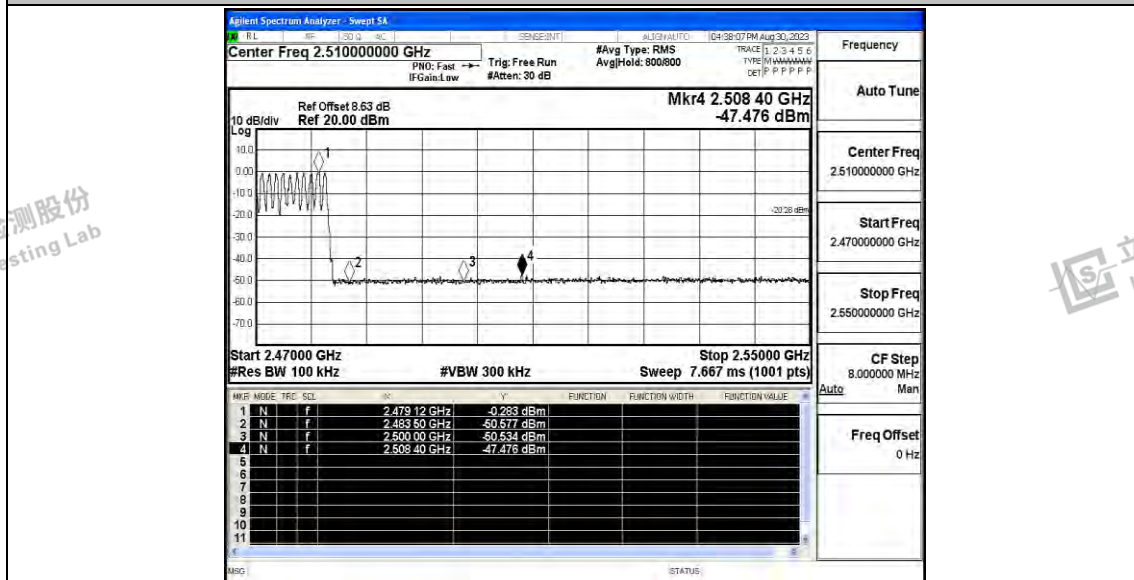
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

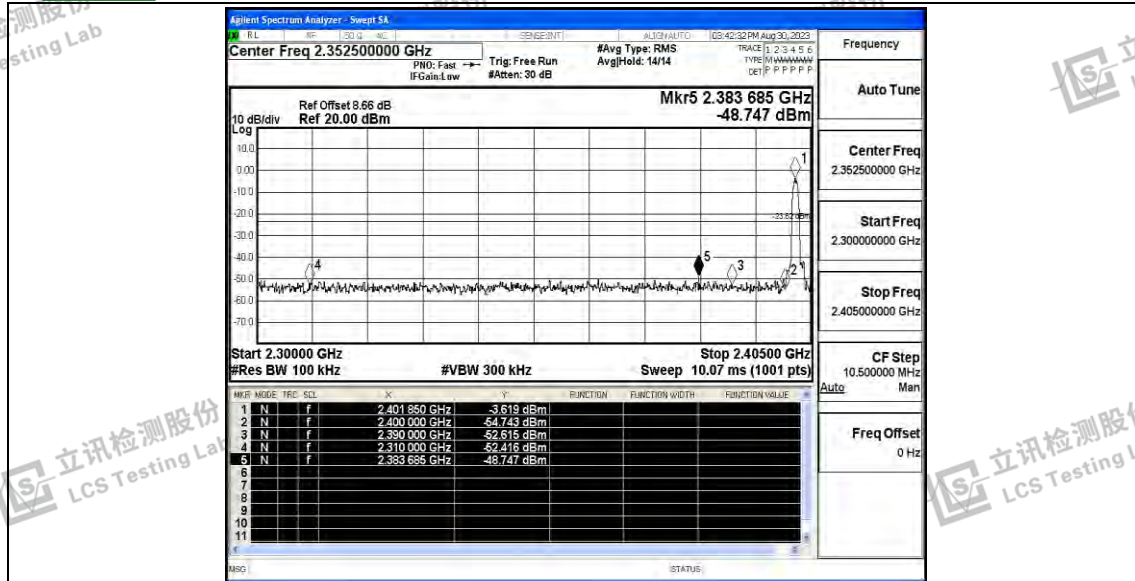


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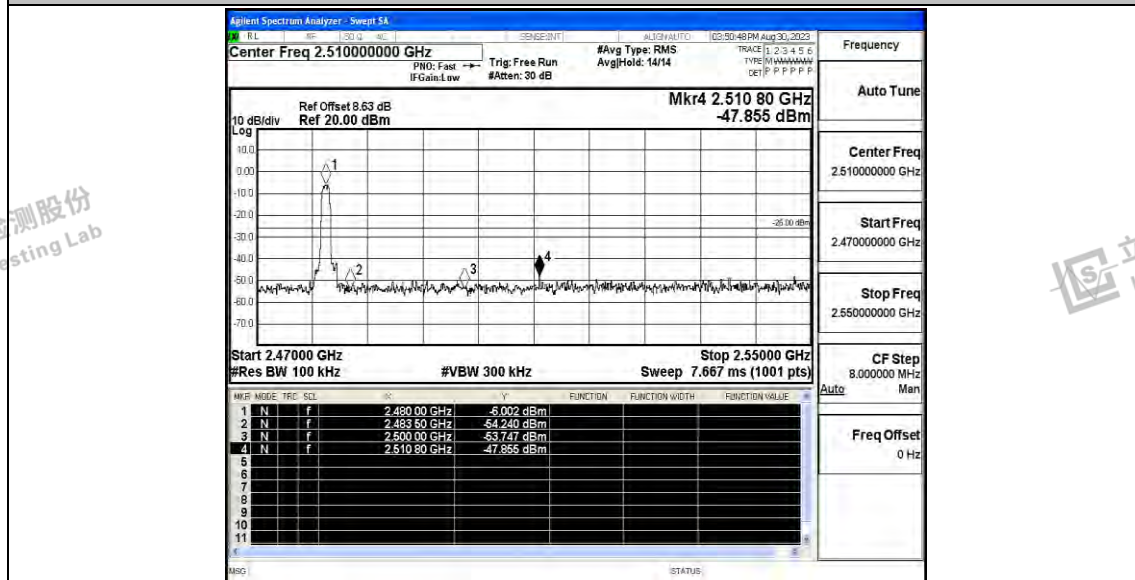
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

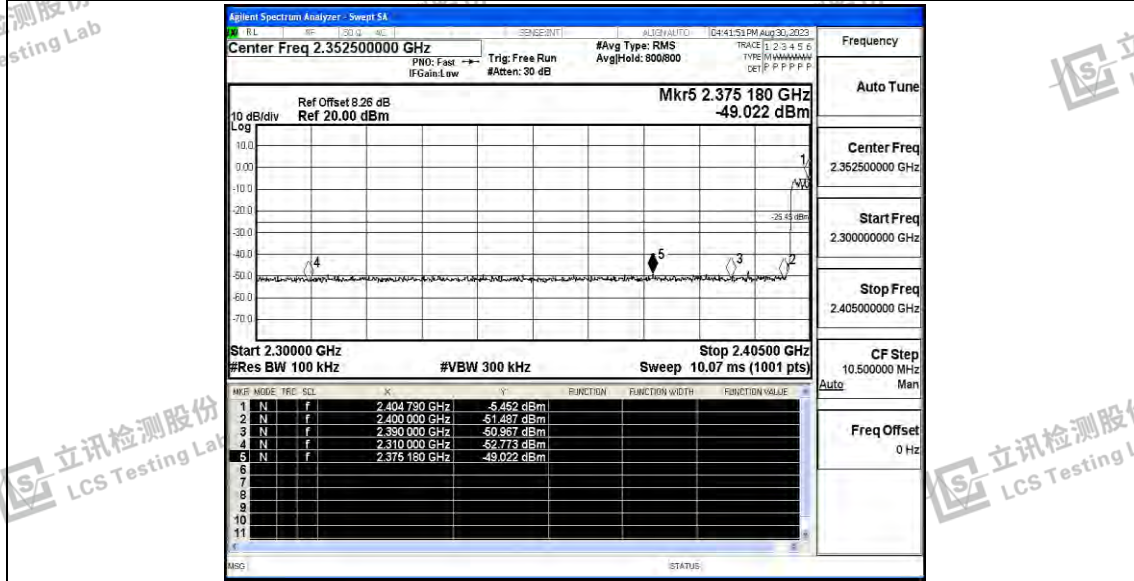


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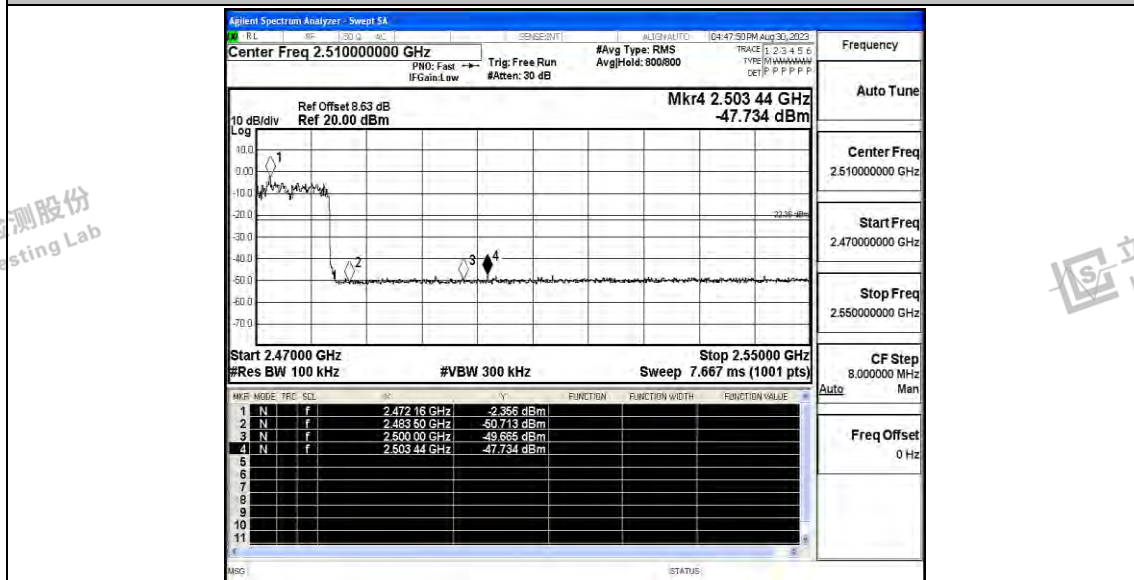
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

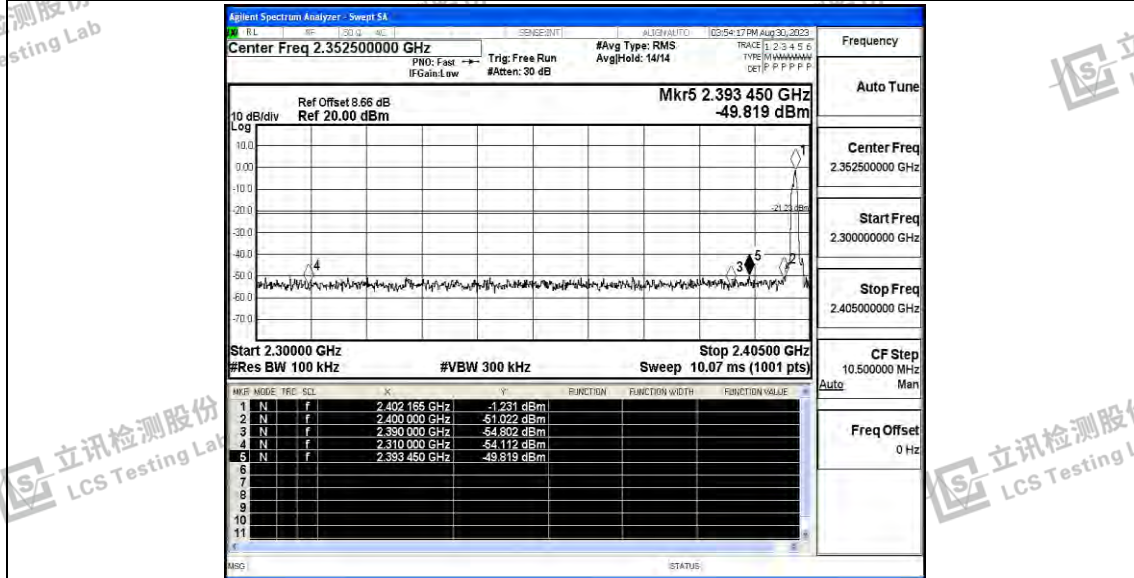


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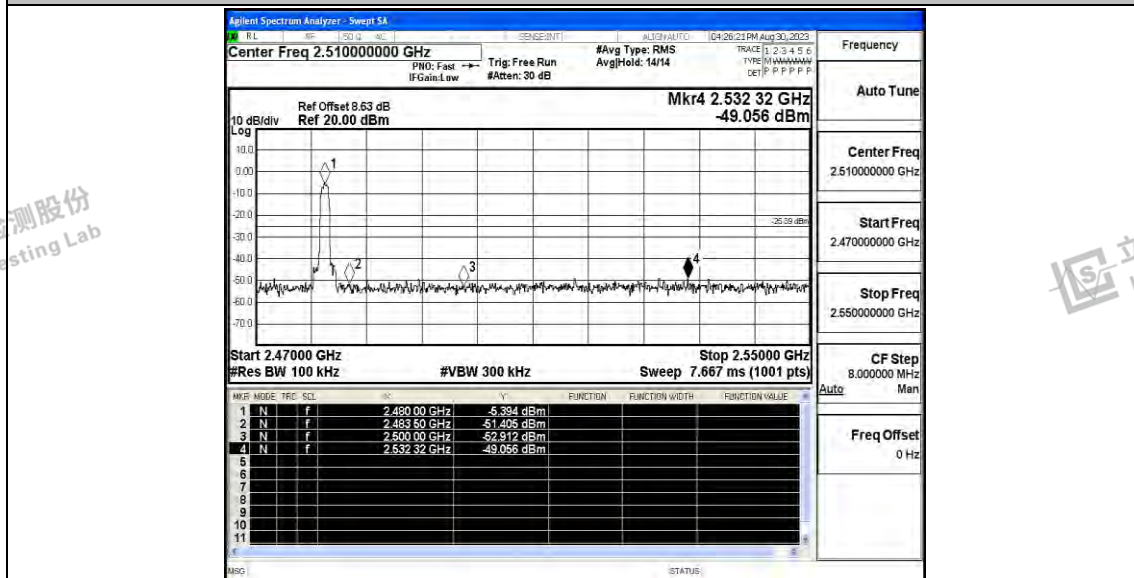
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

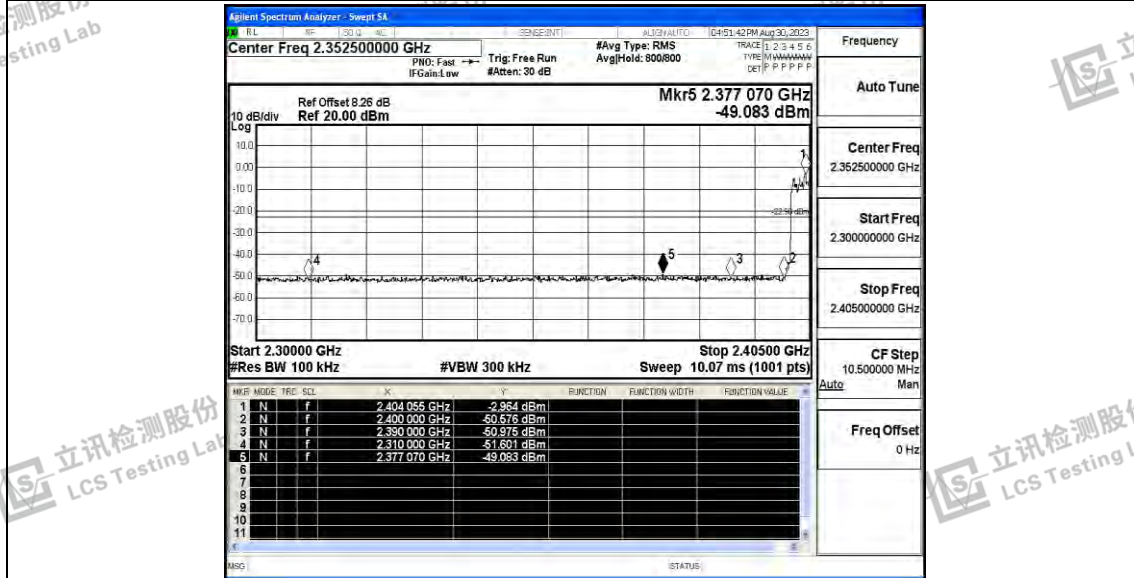


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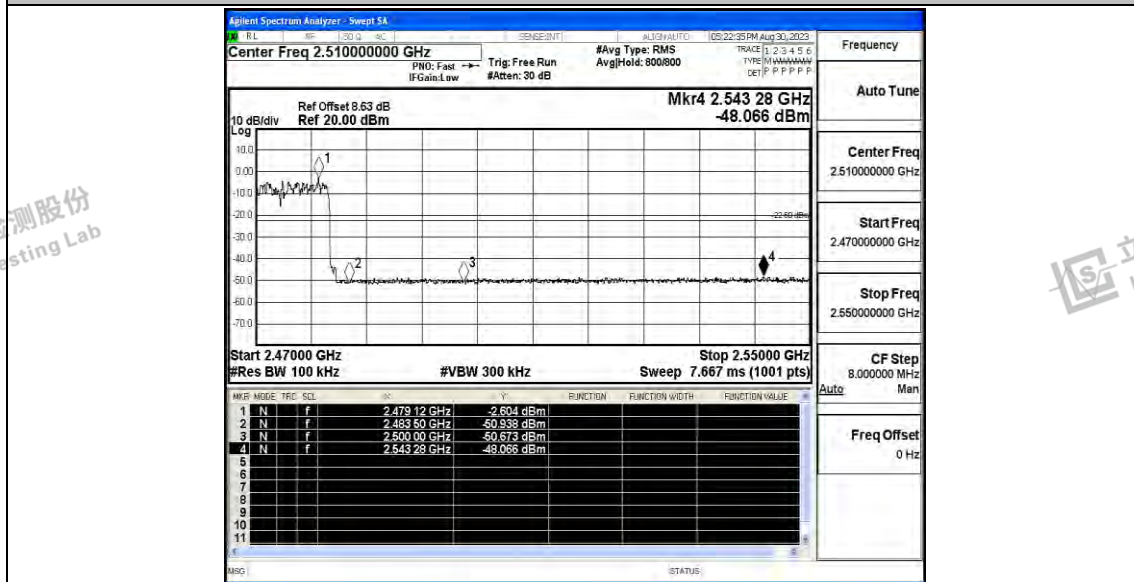
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3DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-60.98	≤ -17.44	PASS
			1000~26500	2.56	-46.46	≤ -17.44	PASS
		2441	Reference	2.94	2.94	---	PASS
			30~1000	2.94	-60.47	≤ -17.06	PASS
			1000~26500	2.94	-46.67	≤ -17.06	PASS
		2480	Reference	-0.92	-0.92	---	PASS
			30~1000	-0.92	-61.04	≤ -20.92	PASS
			1000~26500	-0.92	-46.84	≤ -20.92	PASS
2DH5	Ant1	2402	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-60.76	≤ -21.43	PASS
			1000~26500	-1.43	-46.5	≤ -21.43	PASS
		2441	Reference	-4.63	-4.63	---	PASS
			30~1000	-4.63	-60.87	≤ -24.63	PASS
			1000~26500	-4.63	-46.53	≤ -24.63	PASS
		2480	Reference	-1.28	-1.28	---	PASS
			30~1000	-1.28	-60.09	≤ -21.28	PASS
			1000~26500	-1.28	-46.65	≤ -21.28	PASS
3DH5	Ant1	2402	Reference	-4.32	-4.32	---	PASS
			30~1000	-4.32	-61.28	≤ -24.32	PASS
			1000~26500	-4.32	-46.27	≤ -24.32	PASS
		2441	Reference	-1.49	-1.49	---	PASS
			30~1000	-1.49	-60.38	≤ -21.49	PASS
			1000~26500	-1.49	-47.06	≤ -21.49	PASS
		2480	Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-60.71	≤ -21.22	PASS
			1000~26500	-1.22	-46.43	≤ -21.22	PASS



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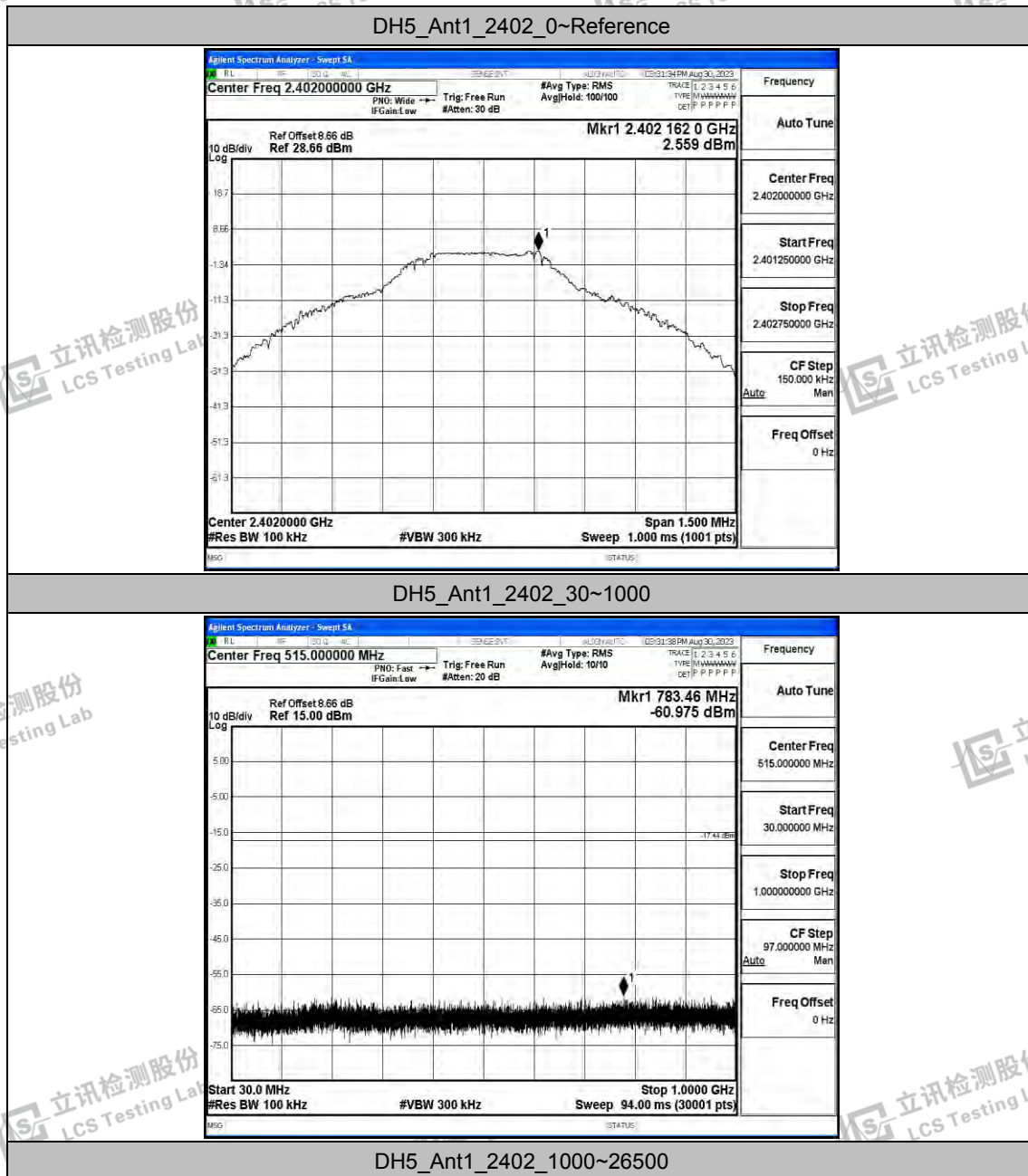
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Test Graphs

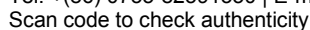
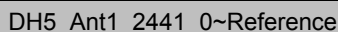


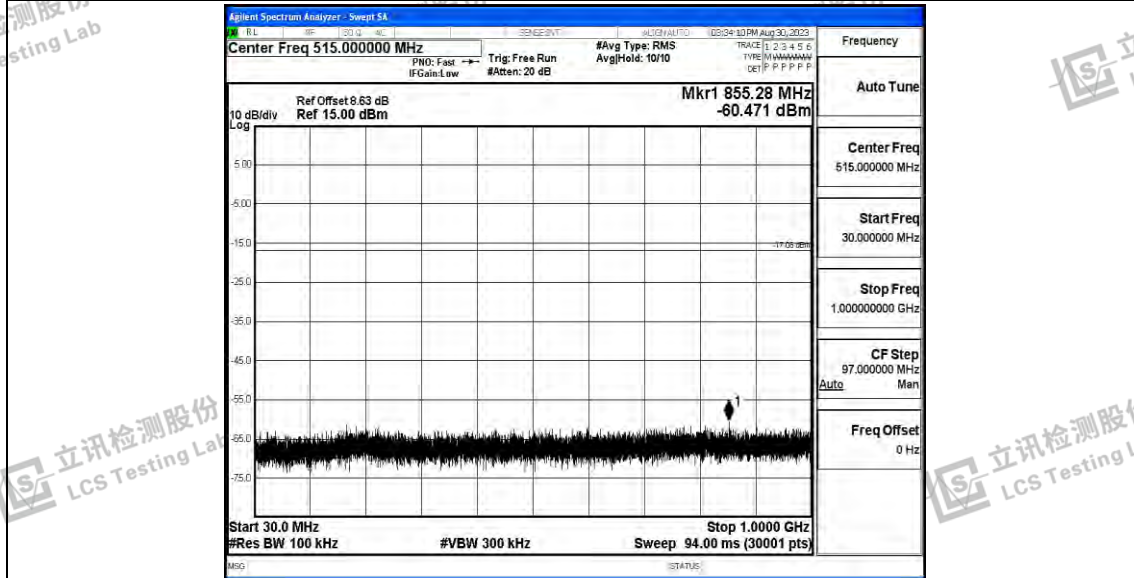
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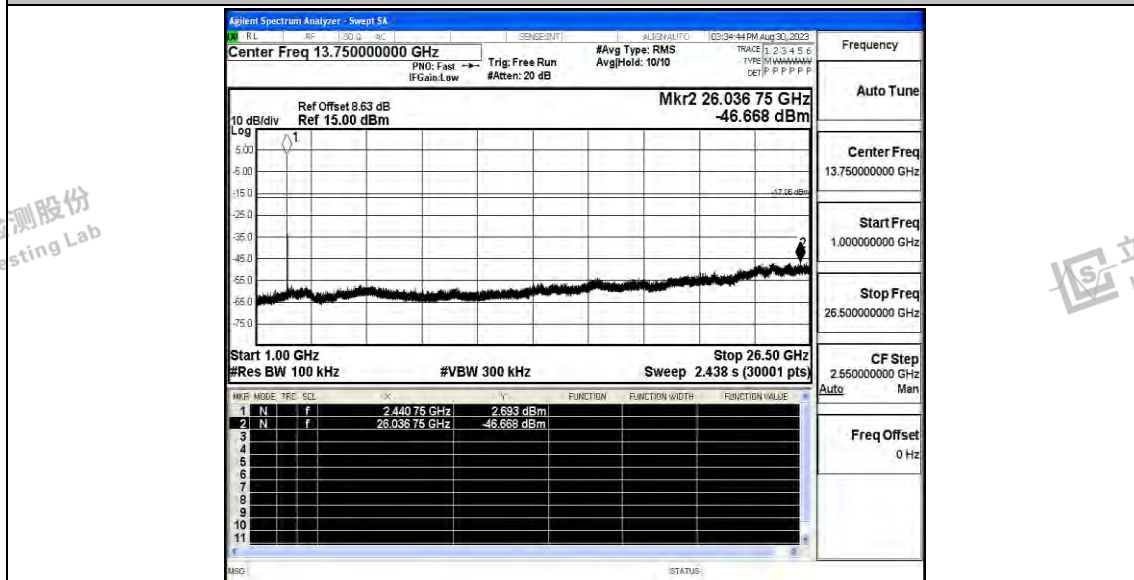
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

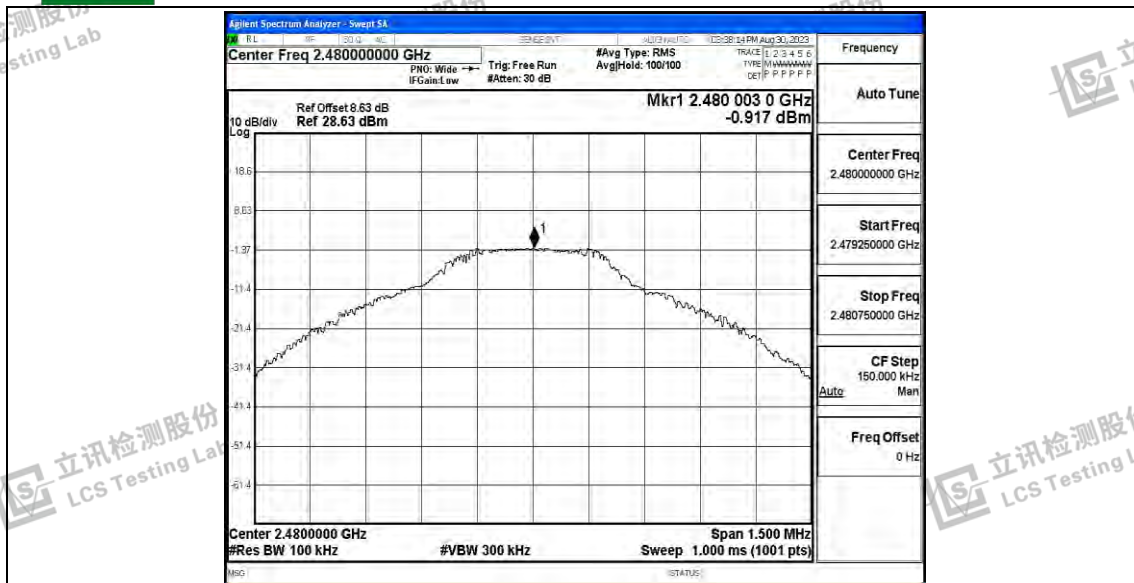


Shenzhen LCS Compliance Testing Laboratory Ltd.

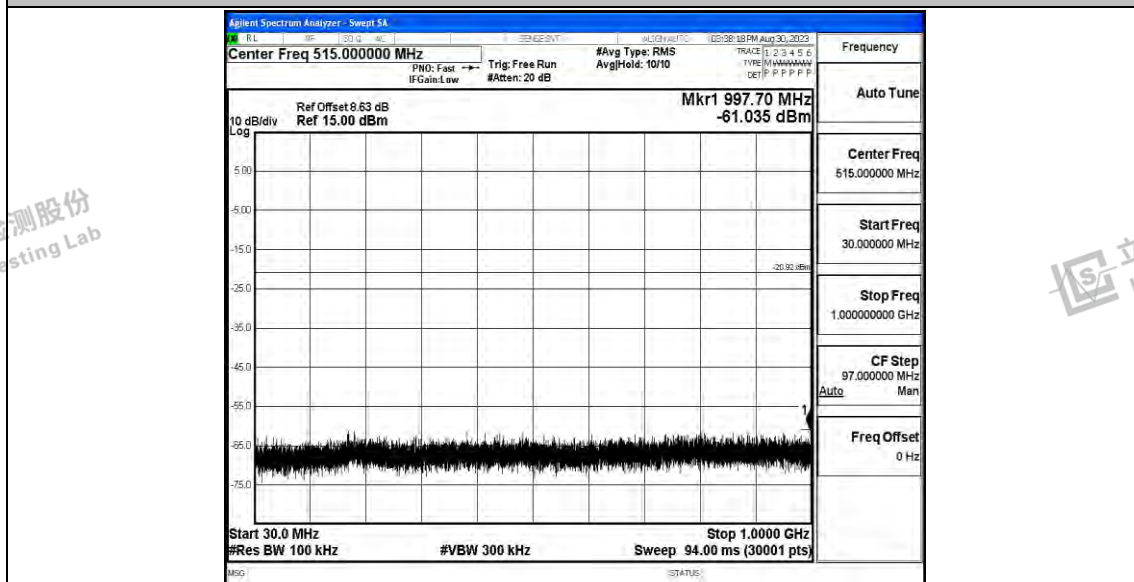
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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

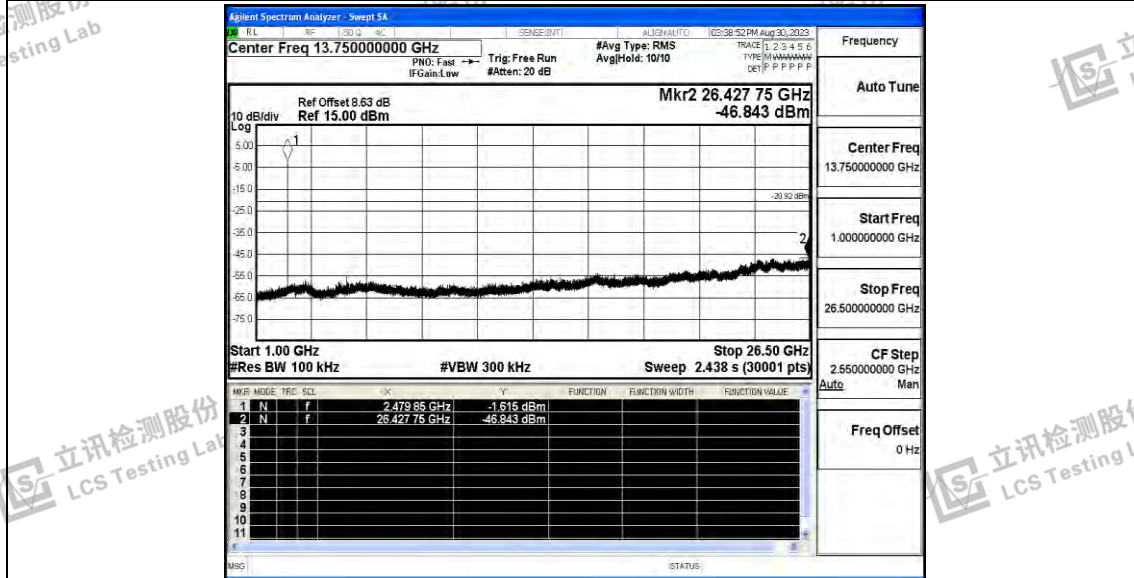


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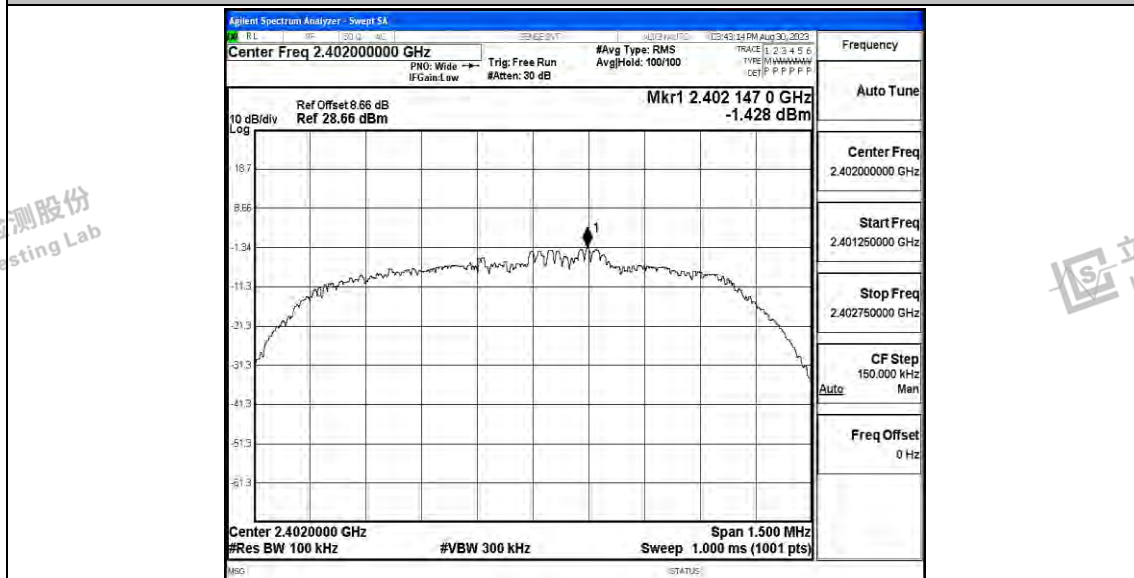
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

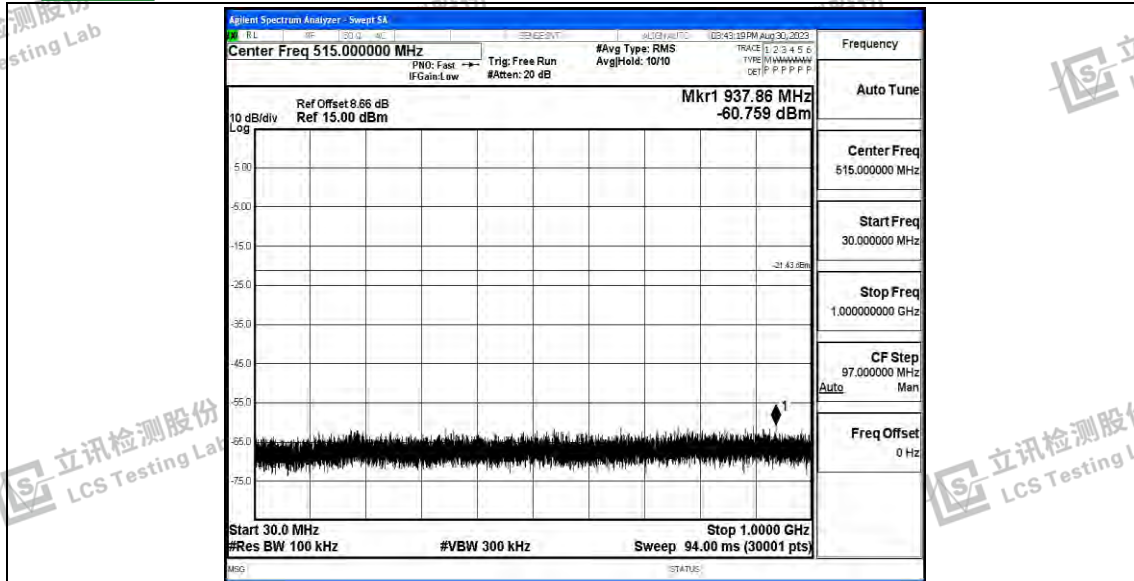


Shenzhen LCS Compliance Testing Laboratory Ltd.

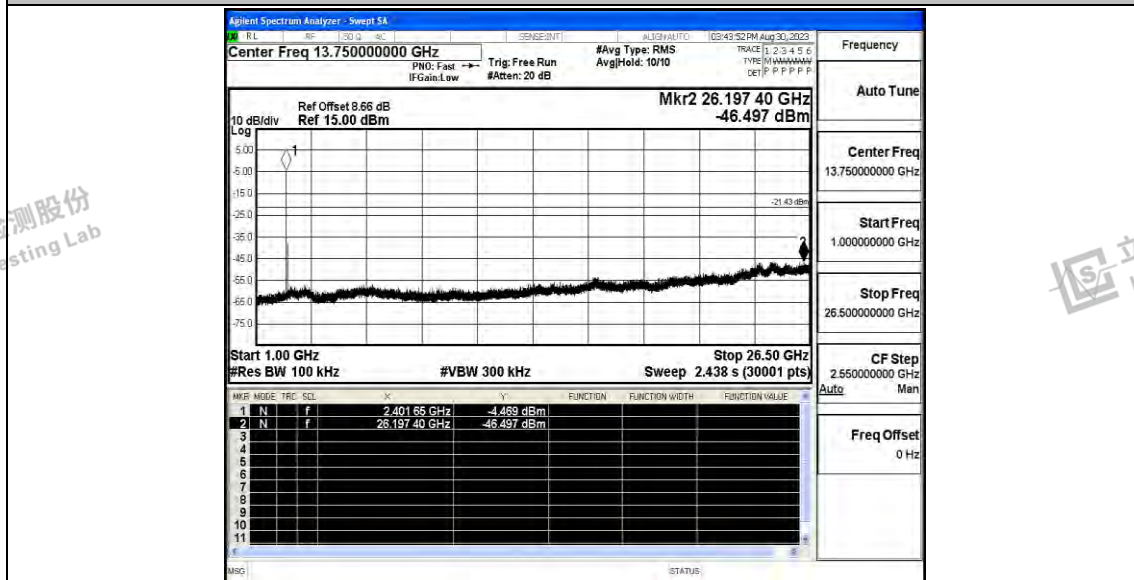
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

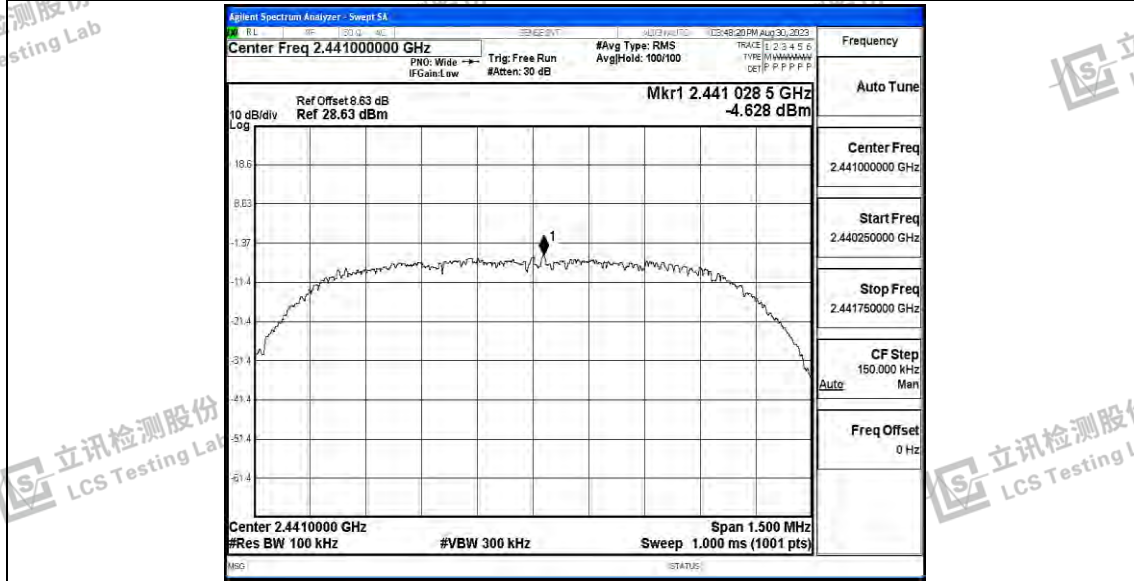


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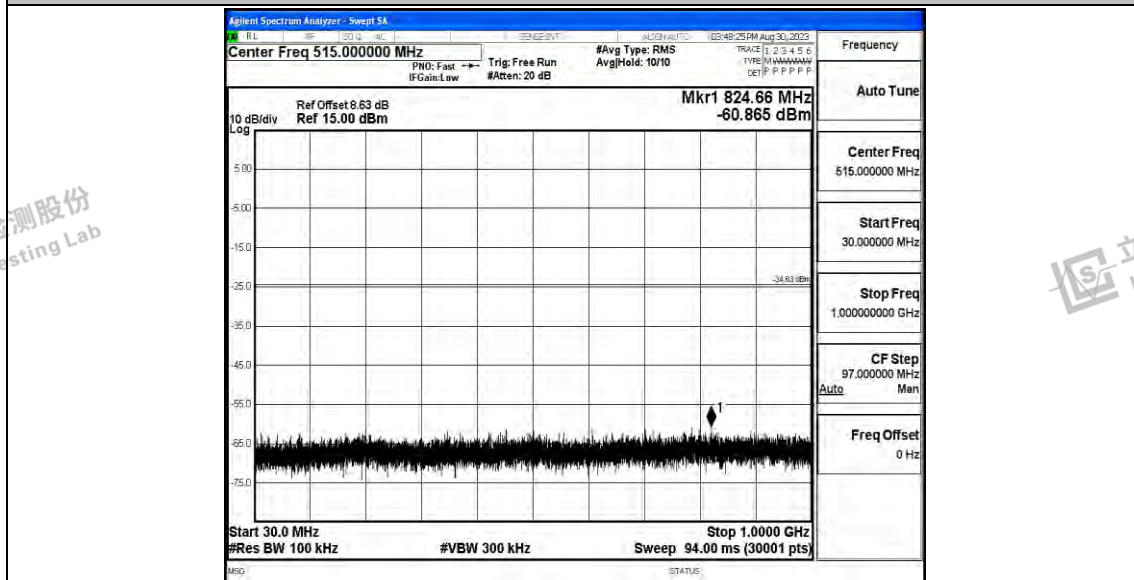
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

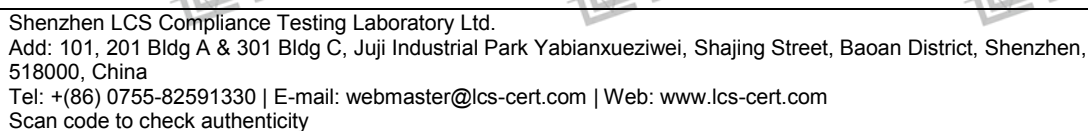
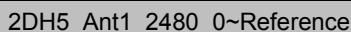


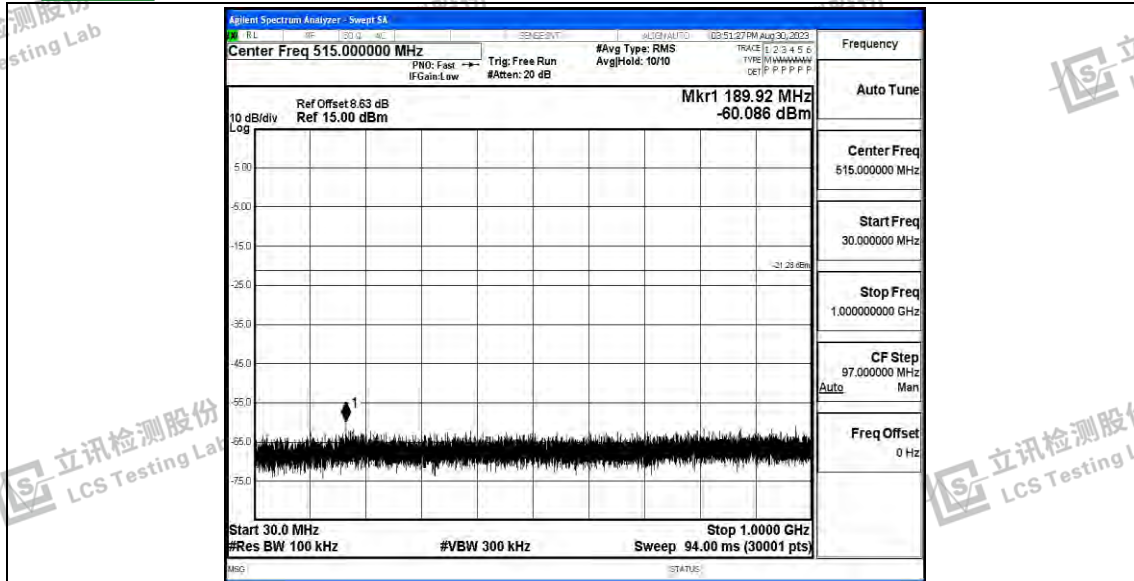
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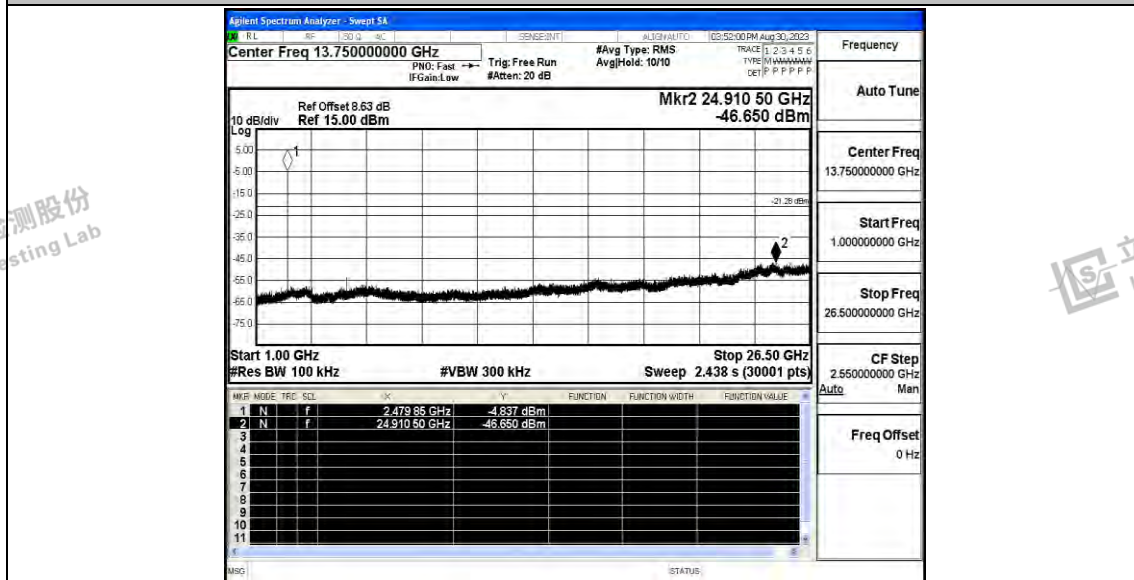
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

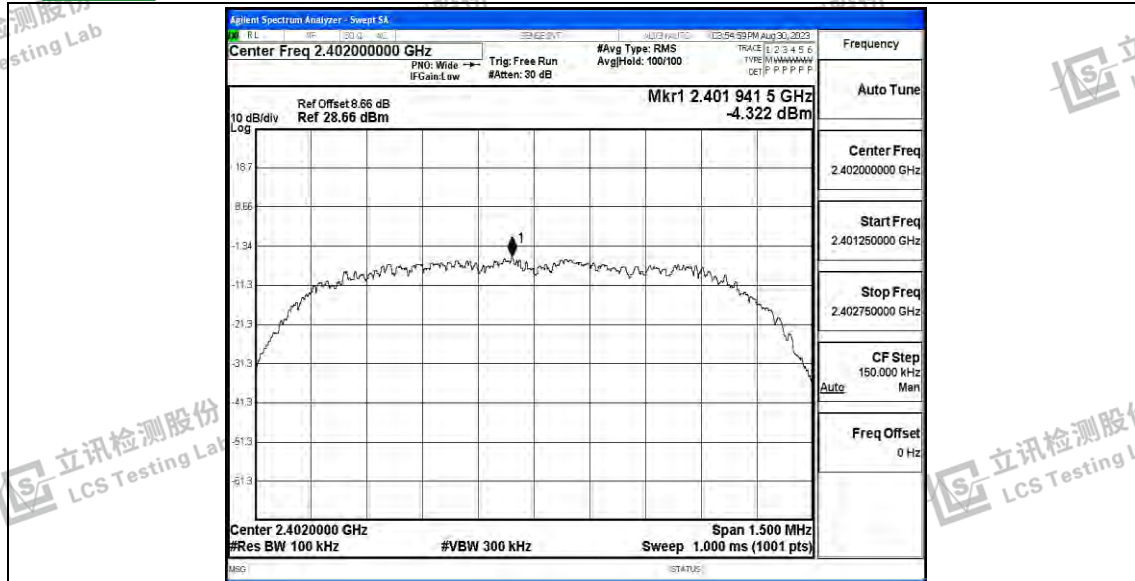


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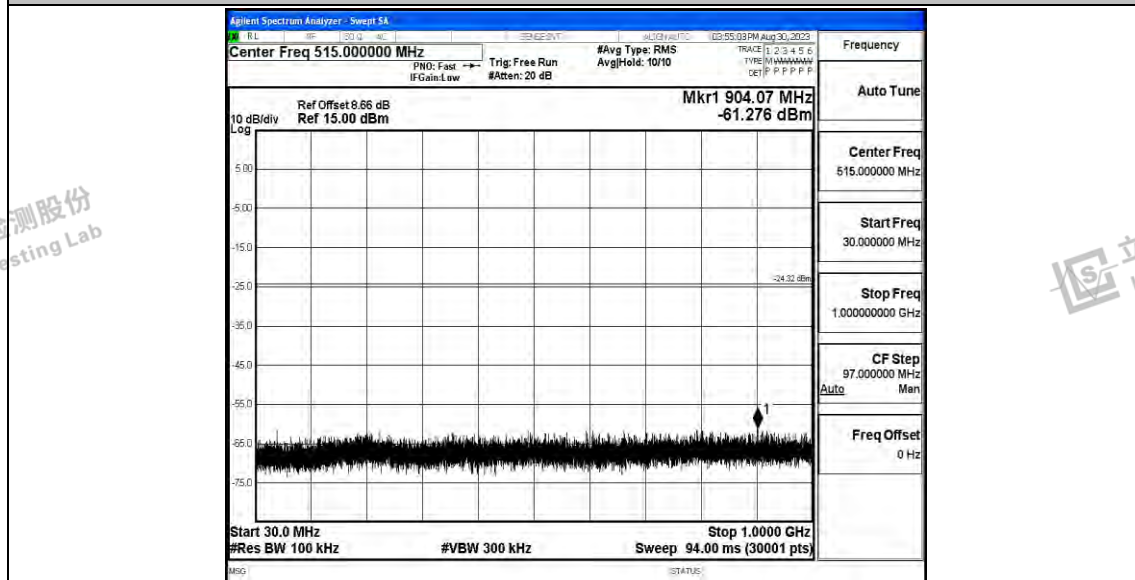
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3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

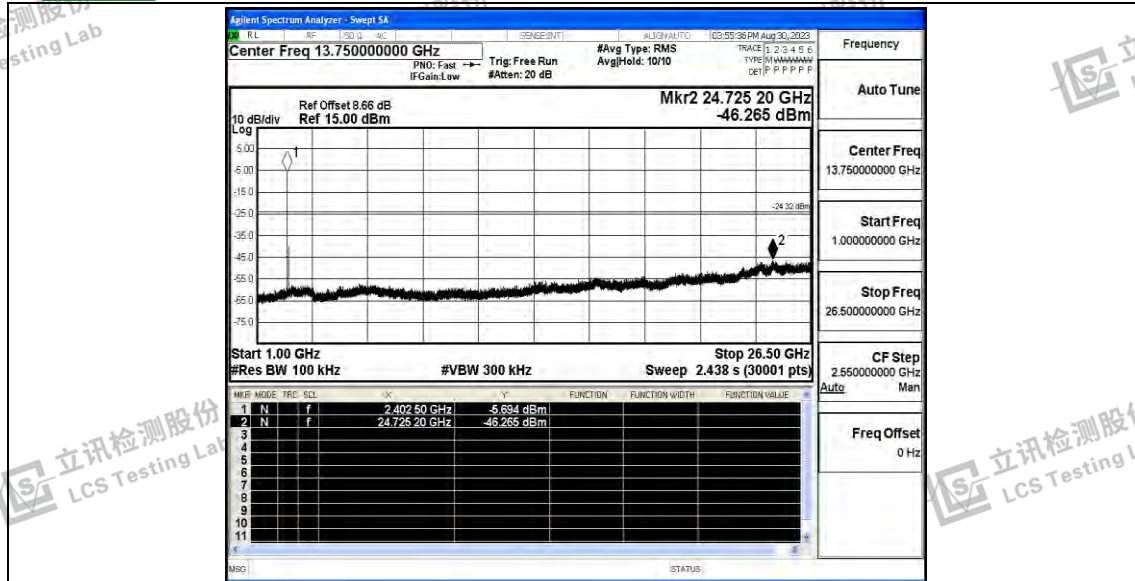


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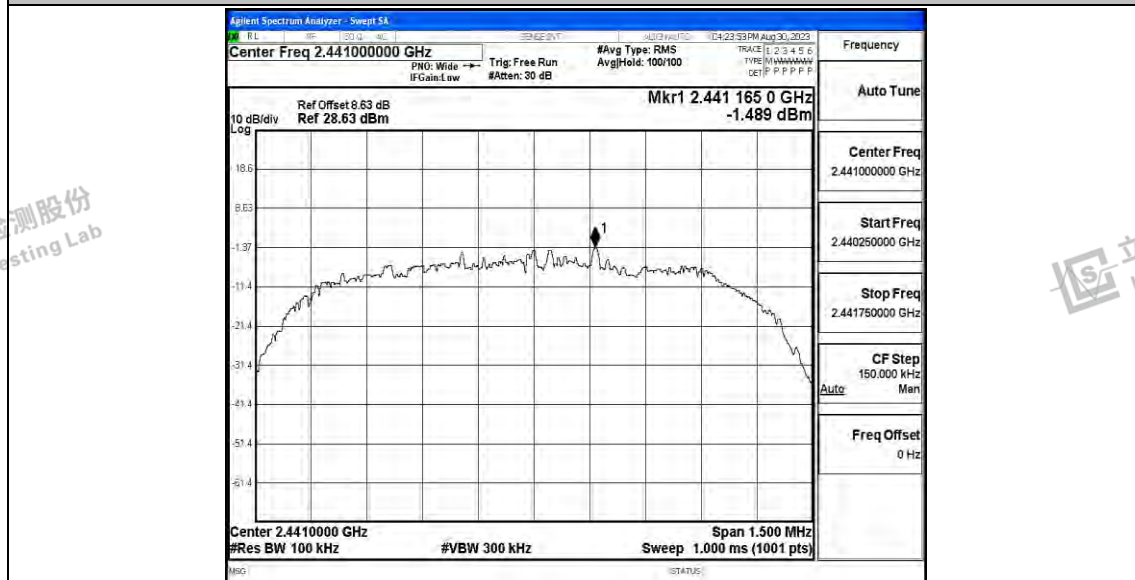
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

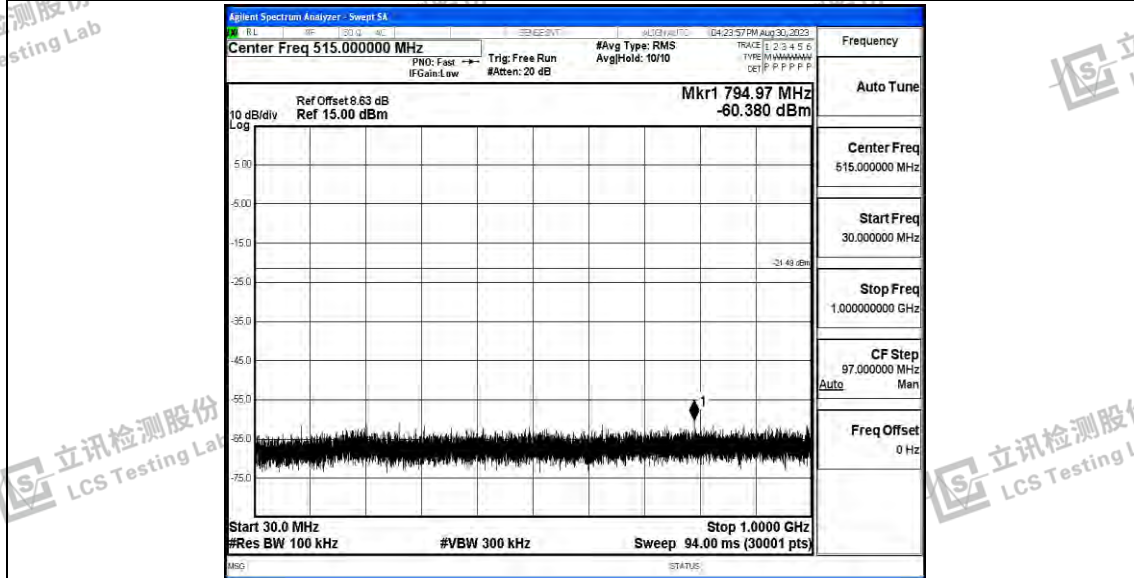


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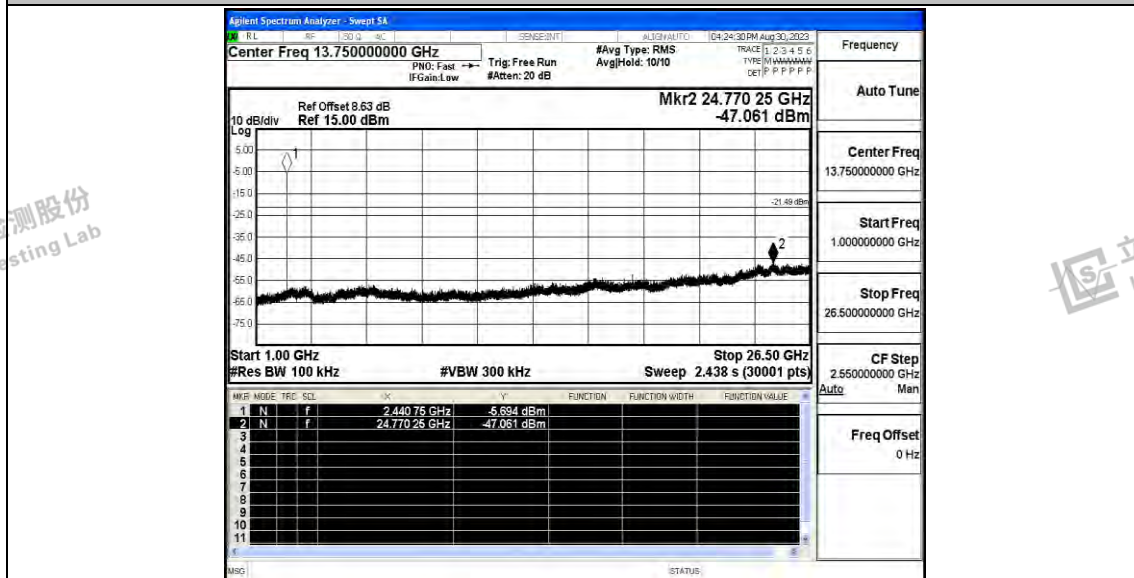
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

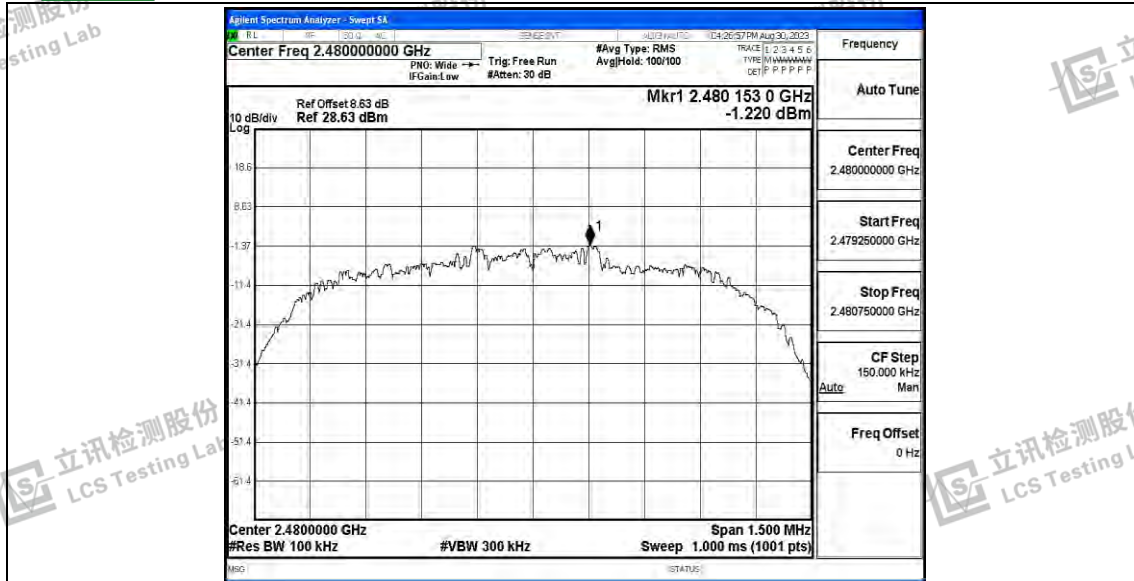


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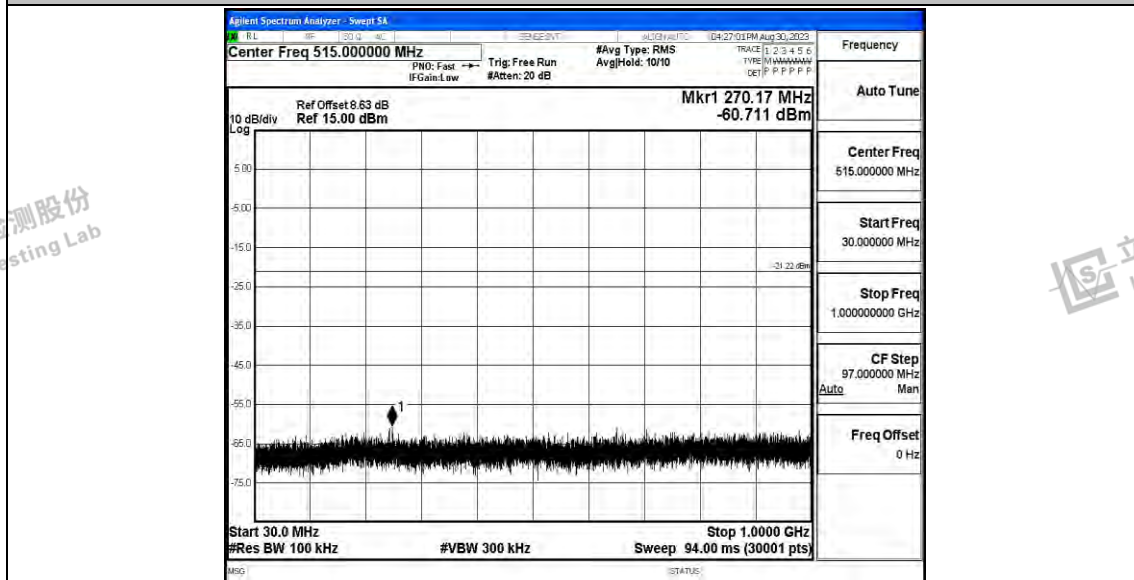
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3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

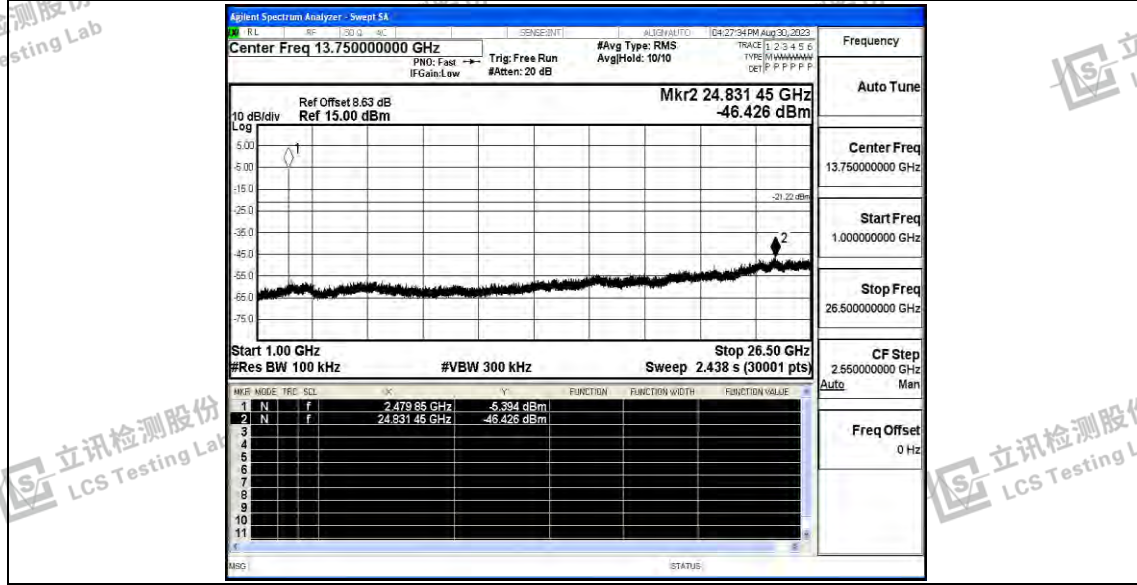


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.08	≤-41.20	47.12	≤54	PASS
				AV	2388.200	-47.56	≤-41.20	47.64	≤54	PASS
				AV	2390.000	-47.76	≤-41.20	47.44	≤54	PASS
				Peak	2310.000	-41.34	≤-21.20	53.86	≤74	PASS
				Peak	2353.865	-38.61	≤-21.20	56.59	≤74	PASS
				Peak	2390.000	-41.54	≤-21.20	53.66	≤74	PASS
		High	2480	AV	2483.500	-47.15	≤-41.20	48.05	≤54	PASS
				AV	2497.440	-47.07	≤-41.20	48.13	≤54	PASS
				AV	2500.000	-47.28	≤-41.20	47.92	≤54	PASS
				Peak	2483.500	-42.2	≤-21.20	53.00	≤74	PASS
				Peak	2492.640	-38.67	≤-21.20	56.53	≤74	PASS
				Peak	2500.000	-40.98	≤-21.20	54.22	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.11	≤-21.20	55.09	≤74	PASS
				Peak	2370.350	-37.8	≤-21.20	57.40	≤74	PASS
				Peak	2390.000	-40.08	≤-21.20	55.12	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.44	≤-21.20	55.76	≤74	PASS
				Peak	2497.600	-36.8	≤-21.20	58.40	≤74	PASS
				Peak	2500.000	-39.18	≤-21.20	56.02	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.14	≤-41.20	47.06	≤54	PASS
				AV	2388.725	-47.57	≤-41.20	47.63	≤54	PASS
				AV	2390.000	-47.78	≤-41.20	47.42	≤54	PASS
				Peak	2310.000	-40.81	≤-21.20	54.39	≤74	PASS
				Peak	2372.660	-39.13	≤-21.20	56.07	≤74	PASS
				Peak	2390.000	-43.09	≤-21.20	52.11	≤74	PASS
		High	2480	AV	2483.500	-47.16	≤-41.20	48.04	≤54	PASS
				AV	2493.040	-47.12	≤-41.20	48.08	≤54	PASS
				AV	2500.000	-47.27	≤-41.20	47.93	≤54	PASS
				Peak	2483.500	-41.22	≤-21.20	53.98	≤74	PASS
				Peak	2489.600	-38.93	≤-21.20	56.27	≤74	PASS
				Peak	2500.000	-41.23	≤-21.20	53.97	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.13	≤-21.20	55.07	≤74	PASS
				Peak	2387.675	-37.61	≤-21.20	57.59	≤74	PASS
				Peak	2390.000	-38.16	≤-21.20	57.04	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-38.46	≤-21.20	56.74	≤74	PASS
				Peak	2490.480	-37.02	≤-21.20	58.18	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2500.000	-39.58	≤-21.20	55.62	≤74	PASS
				AV	2310.000	-48.2	≤-41.20	47.00	≤54	PASS
				AV	2386.940	-47.61	≤-41.20	47.59	≤54	PASS
				AV	2390.000	-47.79	≤-41.20	47.41	≤54	PASS
				Peak	2310.000	-43.6	≤-21.20	51.60	≤74	PASS
				Peak	2362.475	-38.49	≤-21.20	56.71	≤74	PASS
				Peak	2390.000	-42.4	≤-21.20	52.80	≤74	PASS
		High	2480	AV	2483.500	-47.25	≤-41.20	47.95	≤54	PASS
				AV	2495.040	-47.1	≤-41.20	48.10	≤54	PASS
				AV	2500.000	-47.17	≤-41.20	48.03	≤54	PASS
				Peak	2483.500	-44.47	≤-21.20	50.73	≤74	PASS
				Peak	2496.880	-38.51	≤-21.20	56.69	≤74	PASS
				Peak	2500.000	-39.88	≤-21.20	55.32	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.86	≤-21.20	53.34	≤74	PASS
				Peak	2317.535	-37.86	≤-21.20	57.34	≤74	PASS
				Peak	2390.000	-40.6	≤-21.20	54.60	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.05	≤-21.20	56.15	≤74	PASS
				Peak	2499.360	-35.77	≤-21.20	59.43	≤74	PASS
				Peak	2500.000	-39.59	≤-21.20	55.61	≤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

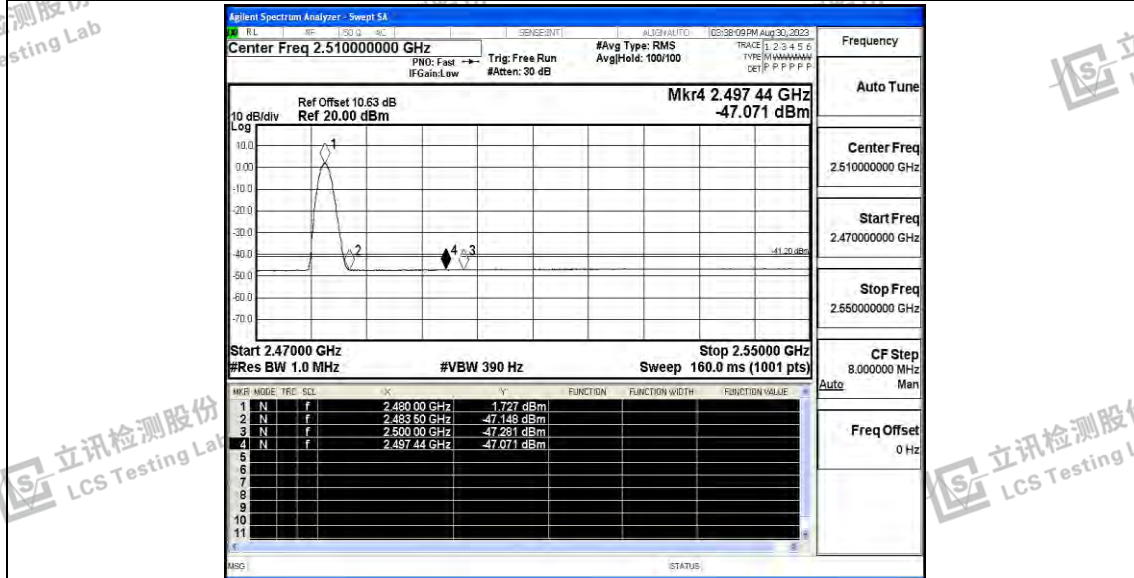


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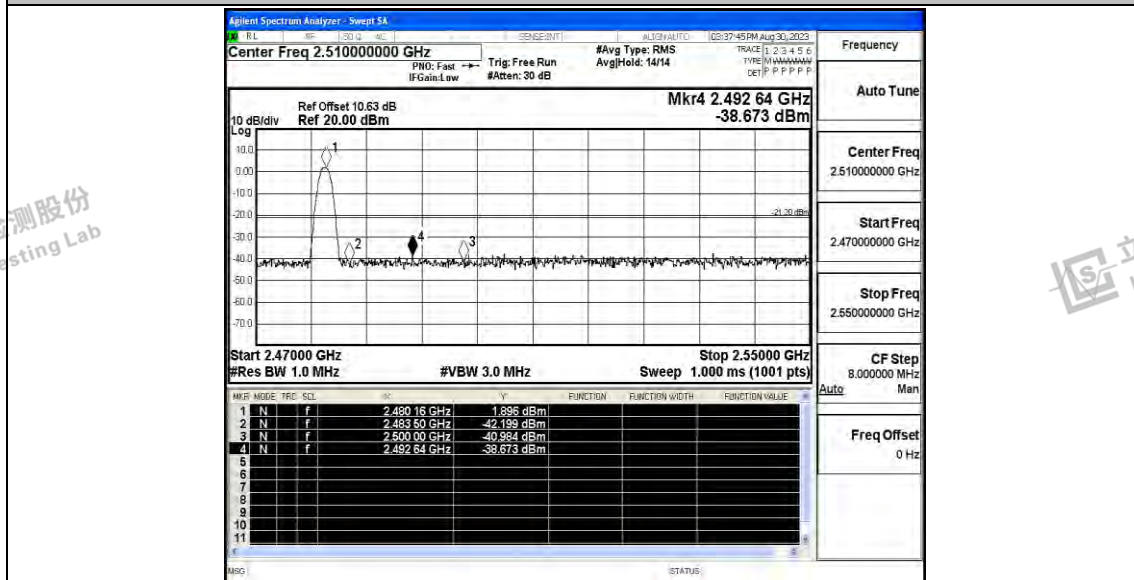
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

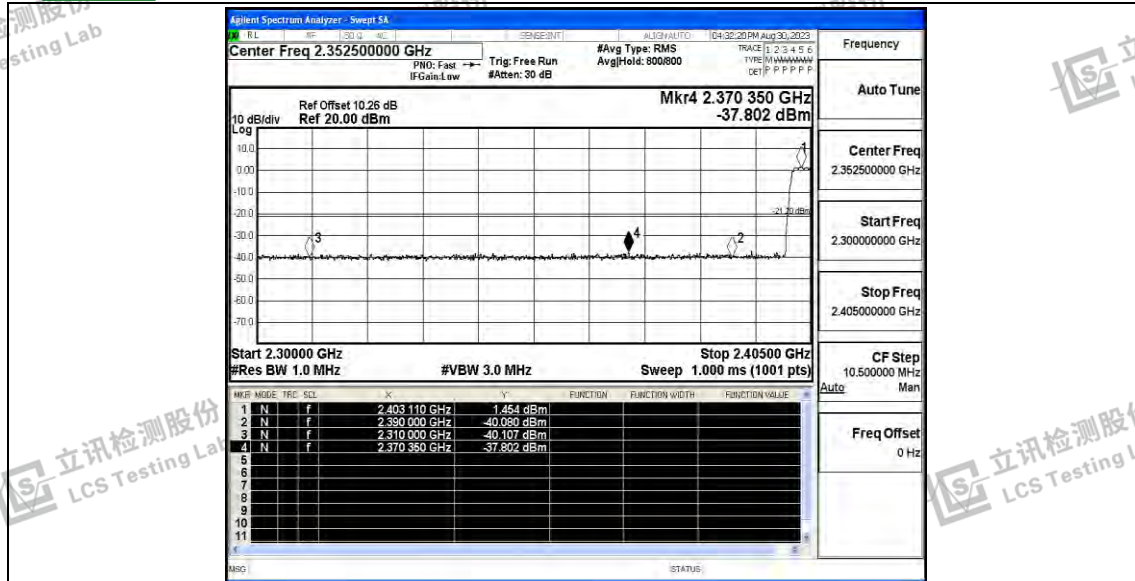


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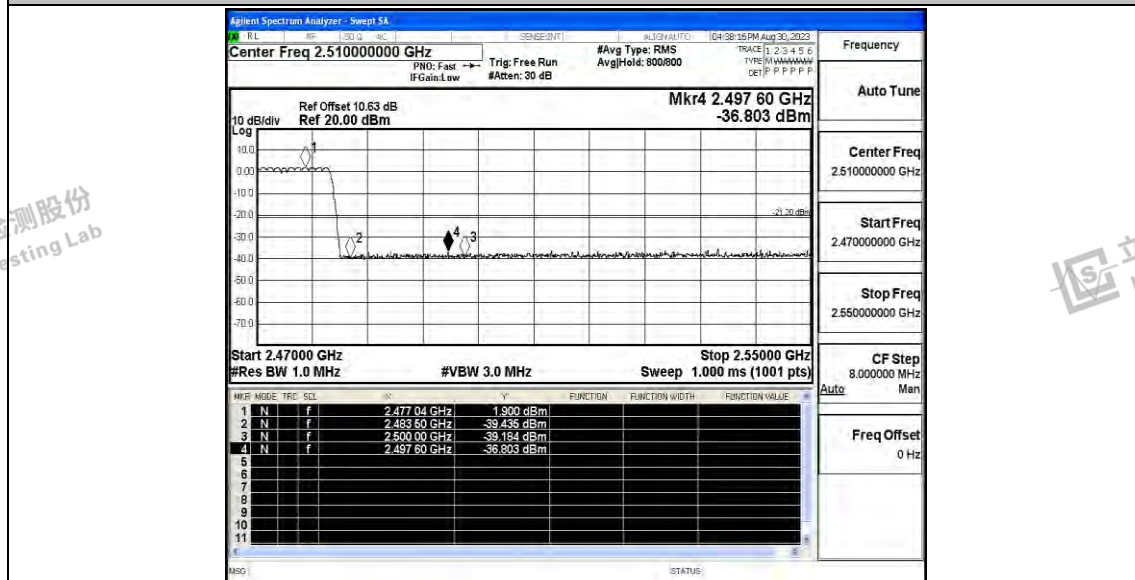
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

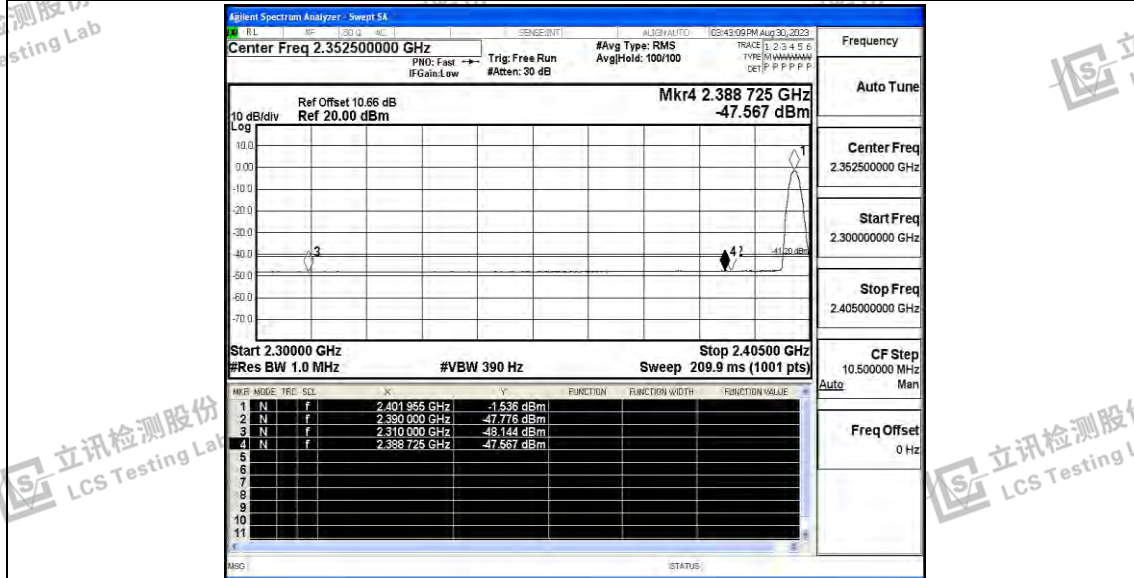


Shenzhen LCS Compliance Testing Laboratory Ltd.

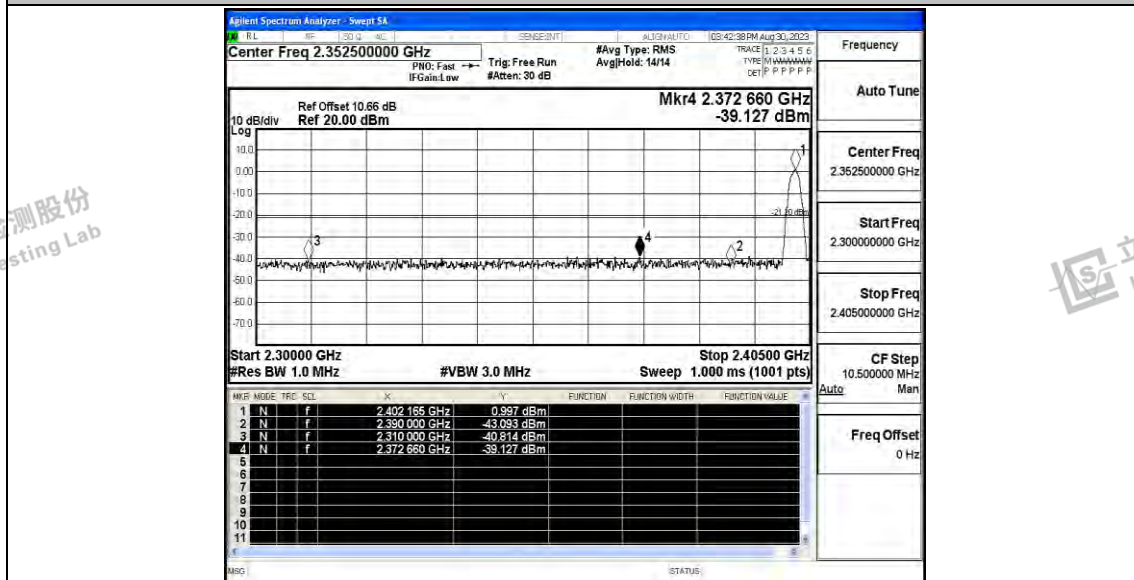
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

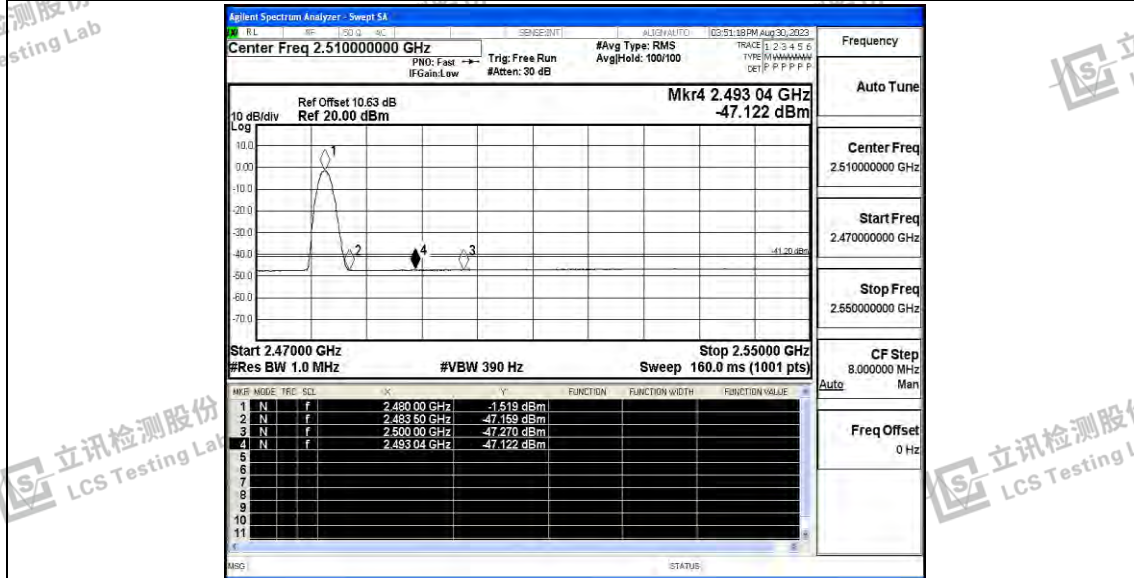


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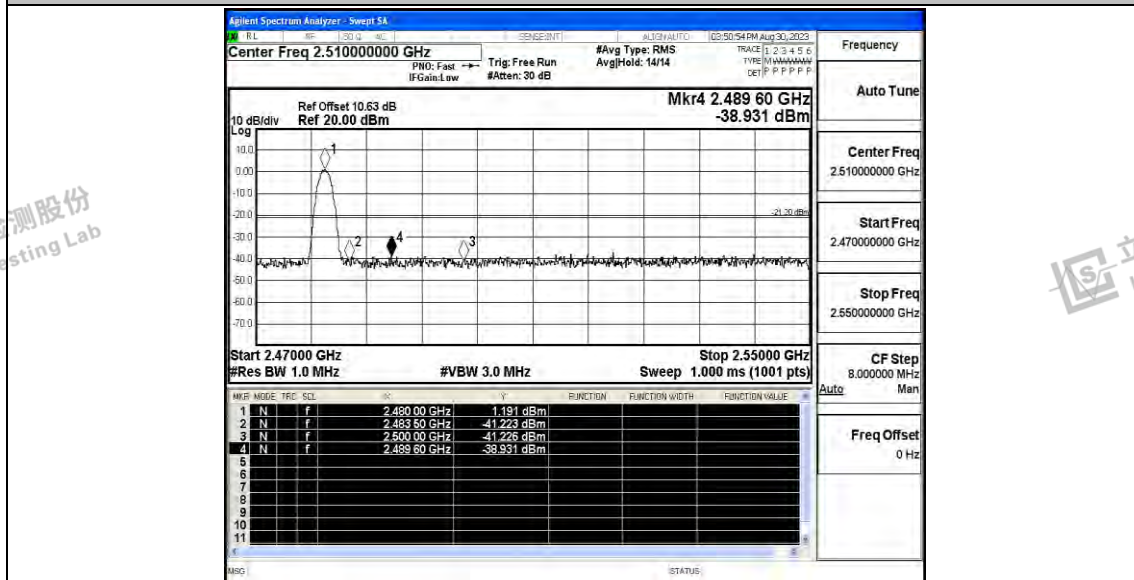
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

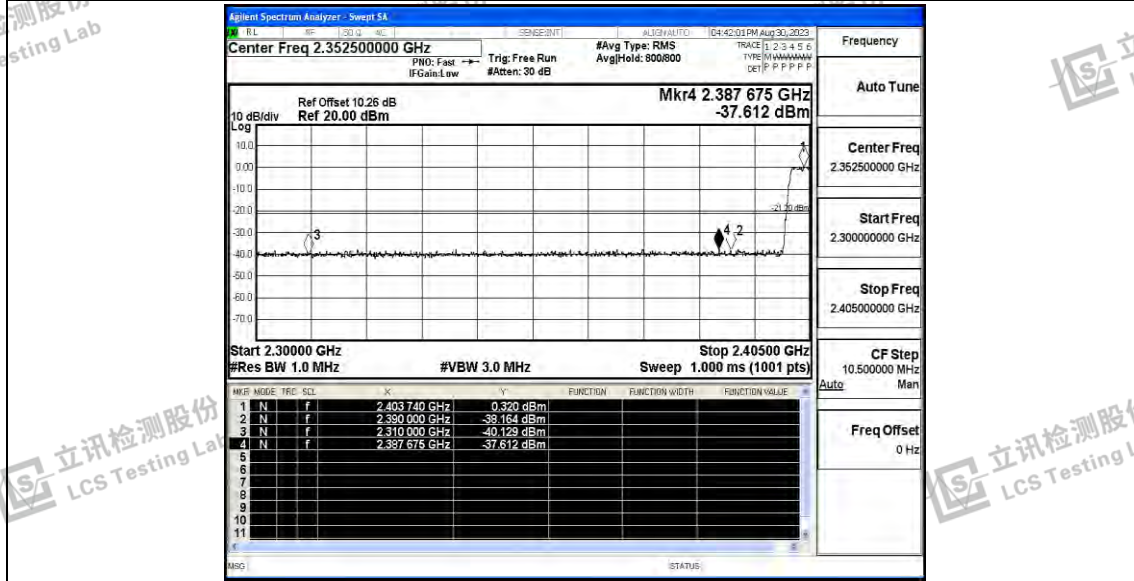


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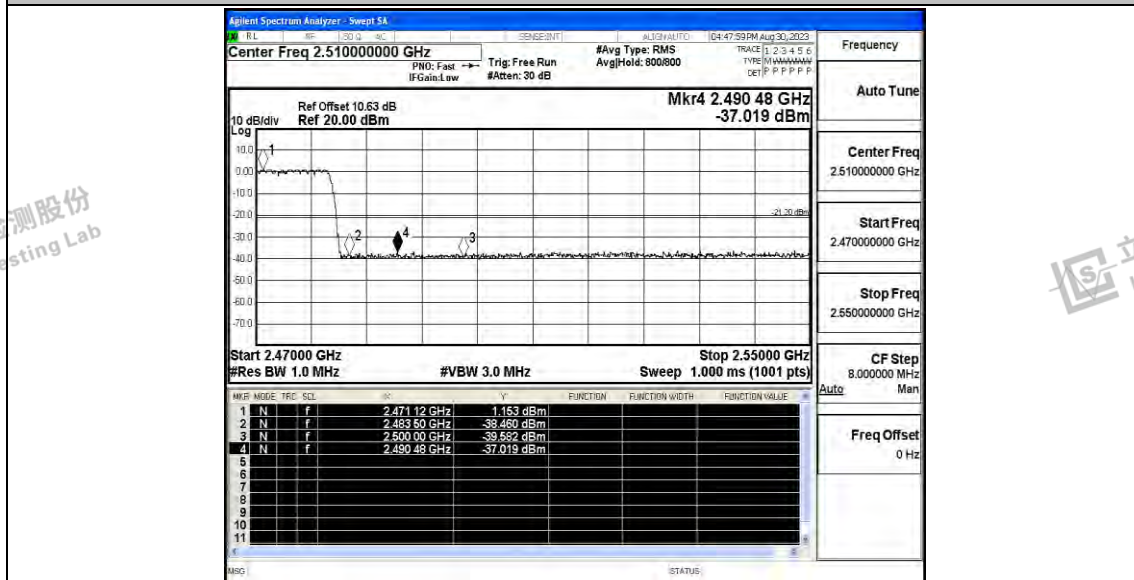
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

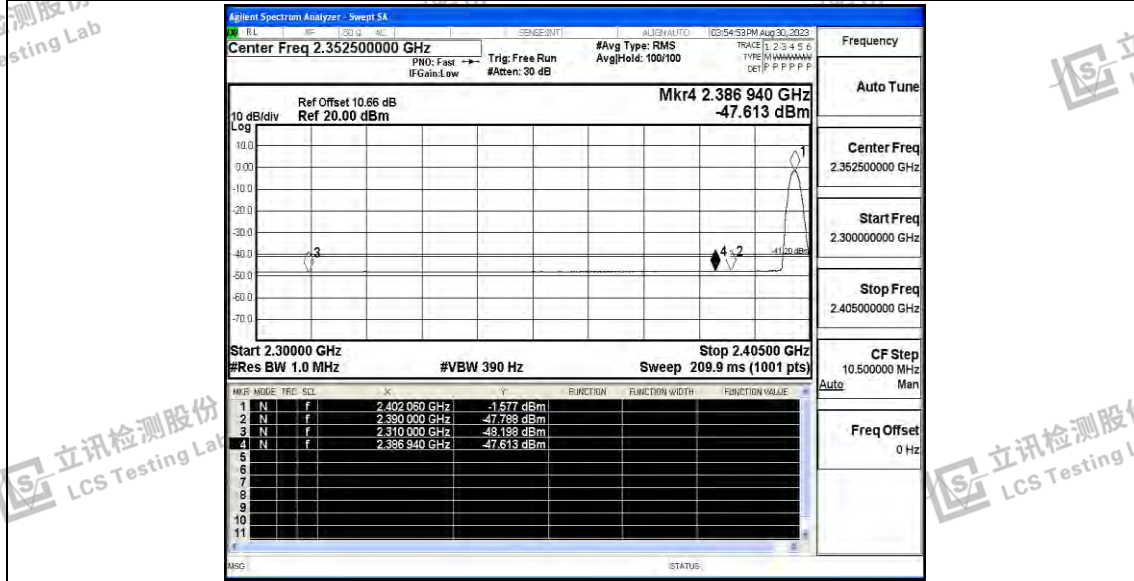


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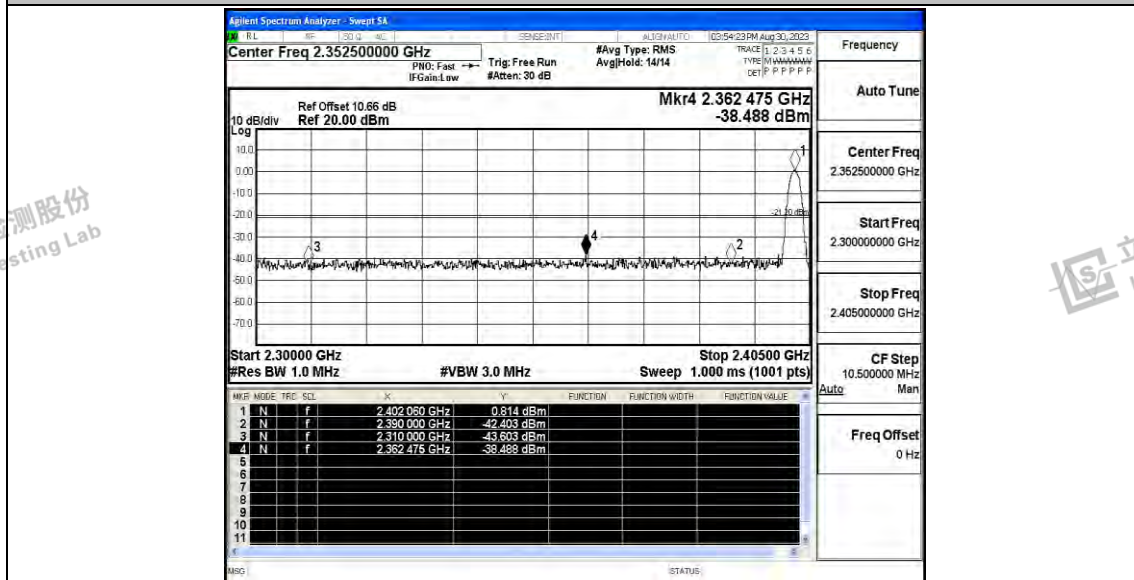
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

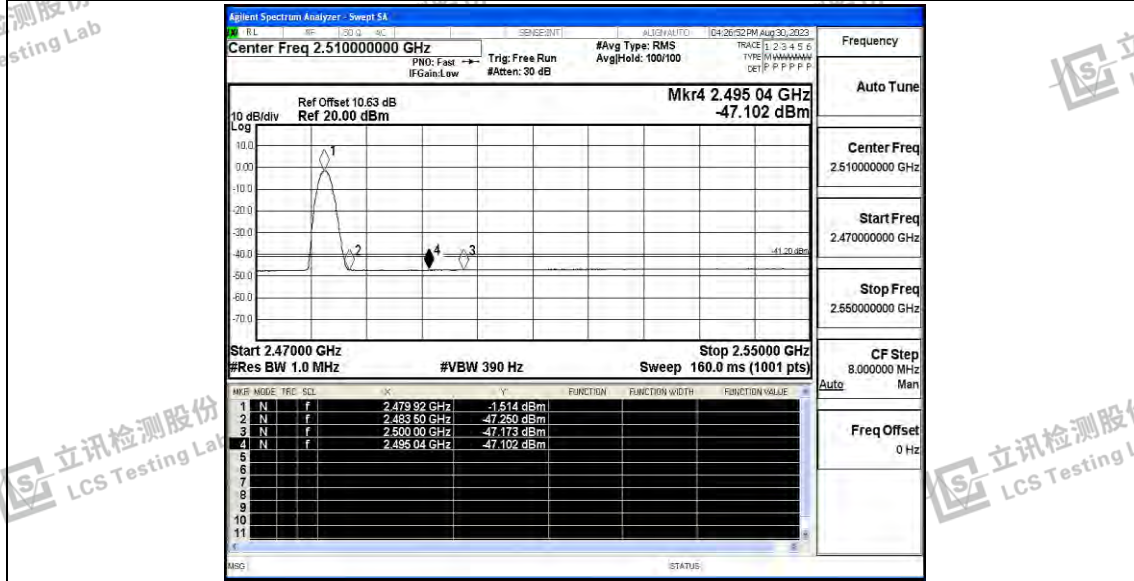


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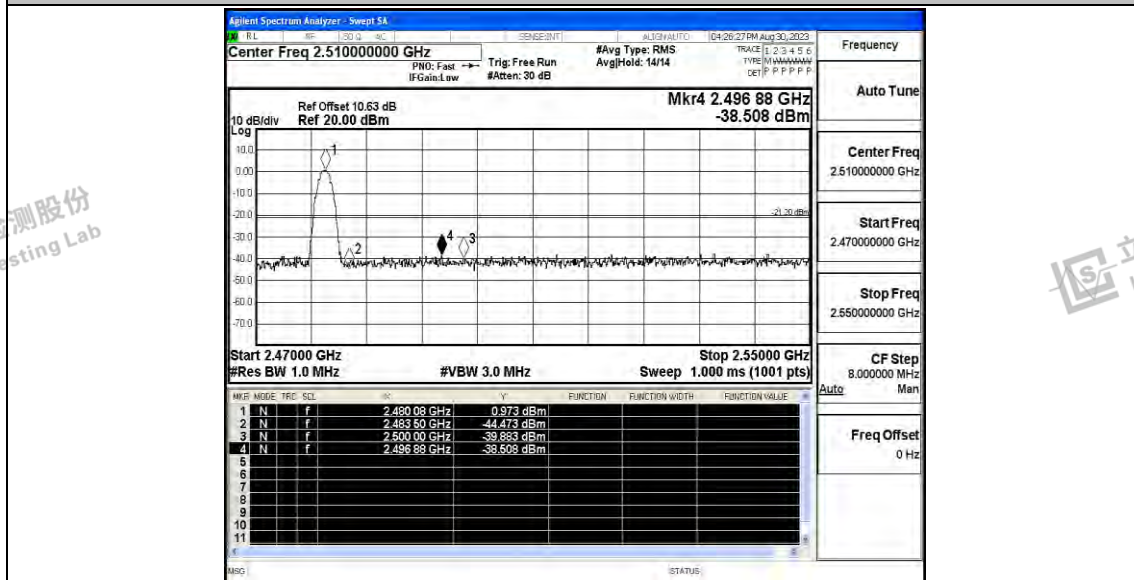
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

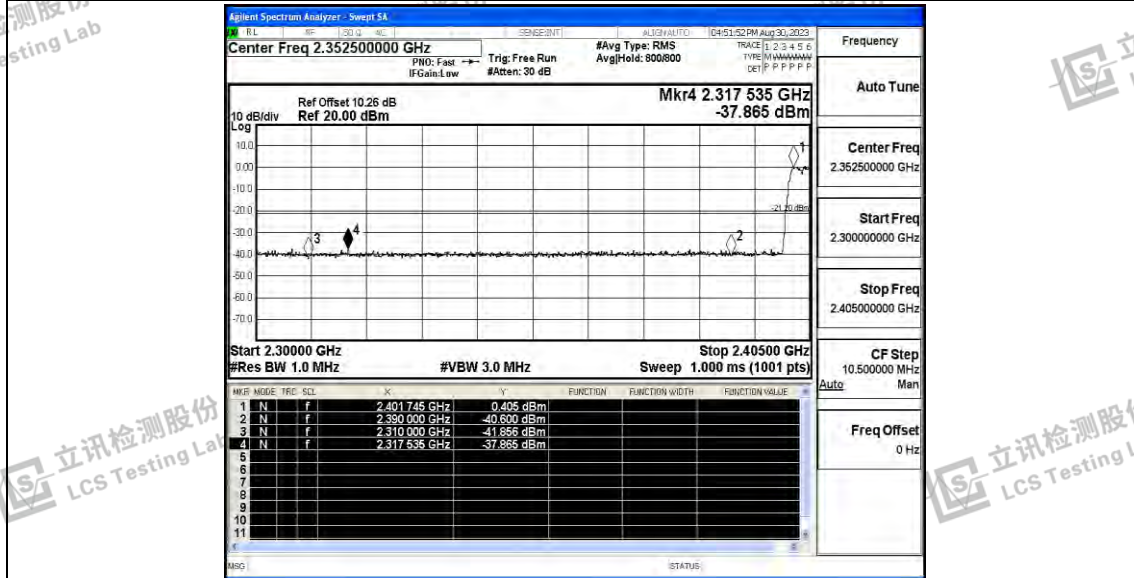


Shenzhen LCS Compliance Testing Laboratory Ltd.

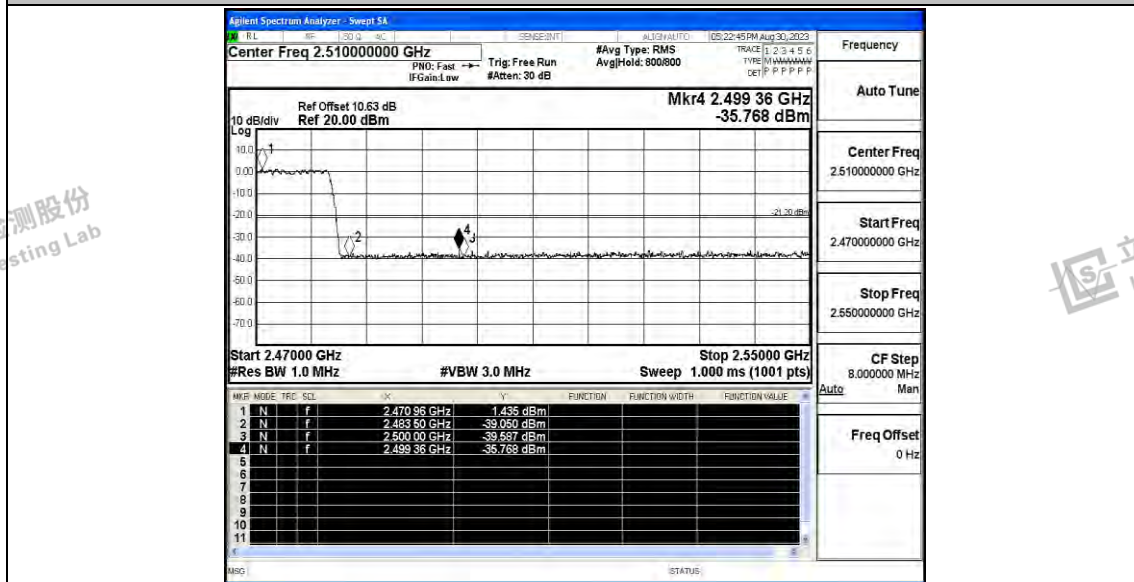
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant1_High_Hop_2480_Peak



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