



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Bluetooth headset

Test Model: G8

Environmental Conditions

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



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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	Ant1	2402	1.014	2401.481	2402.495	---	---
		2441	0.978	2440.532	2441.510	---	---
		2480	0.945	2479.544	2480.489	---	---
2DH5	Ant1	2402	1.338	2401.331	2402.669	---	---
		2441	1.293	2440.364	2441.657	---	---
		2480	1.317	2479.343	2480.660	---	---
3DH5	Ant1	2402	1.305	2401.352	2402.657	---	---
		2441	1.308	2440.349	2441.657	---	---
		2480	1.308	2479.349	2480.657	---	---



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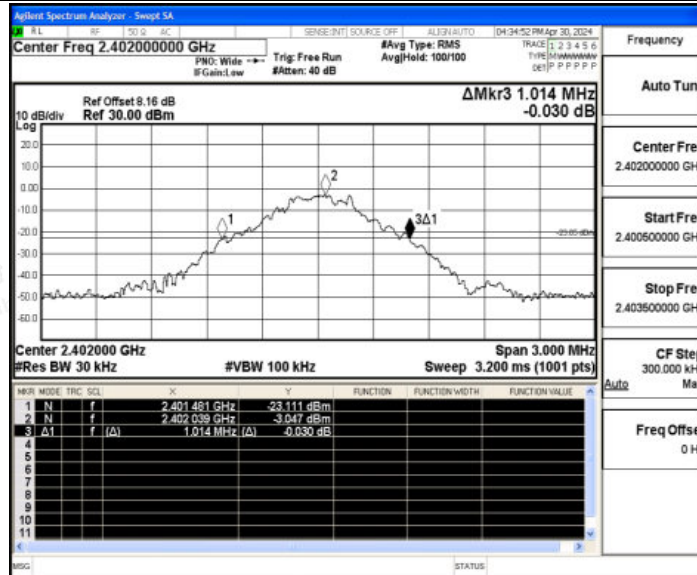
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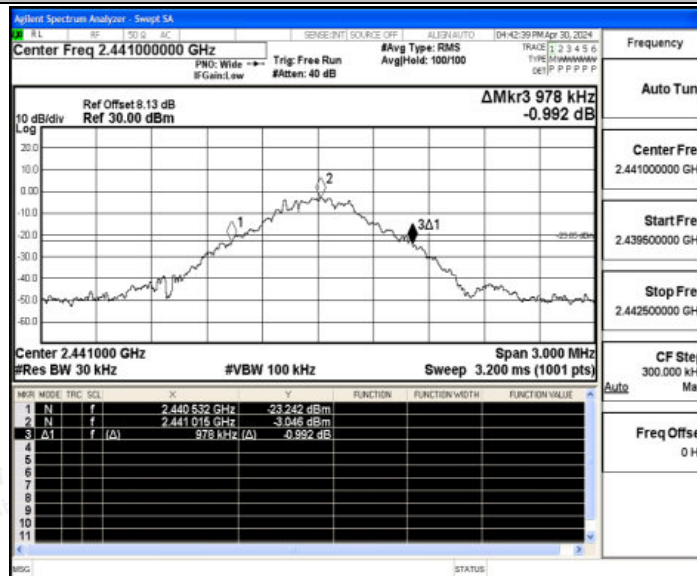


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

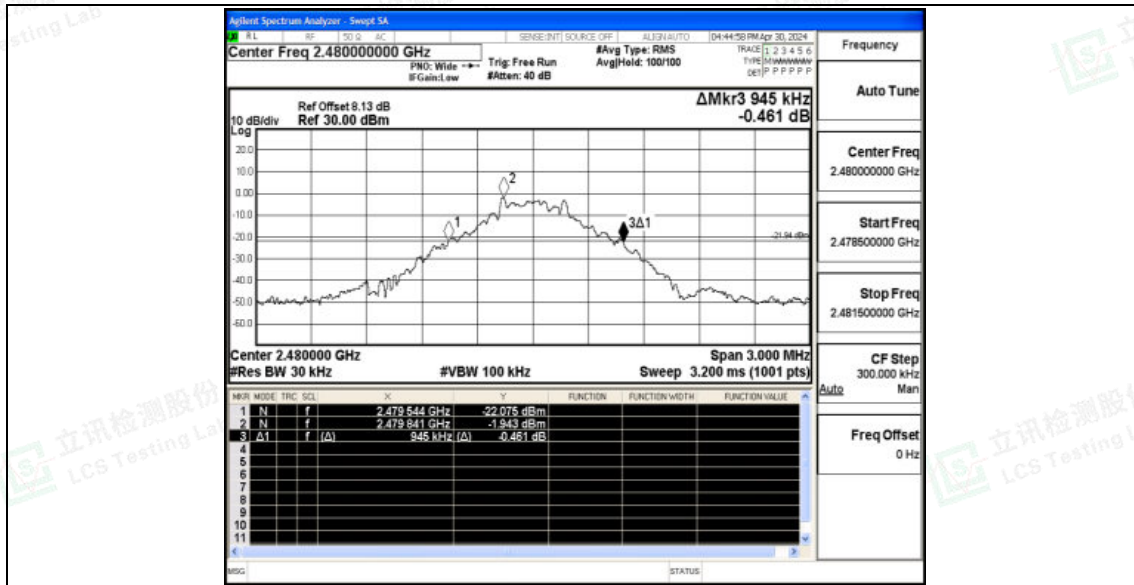


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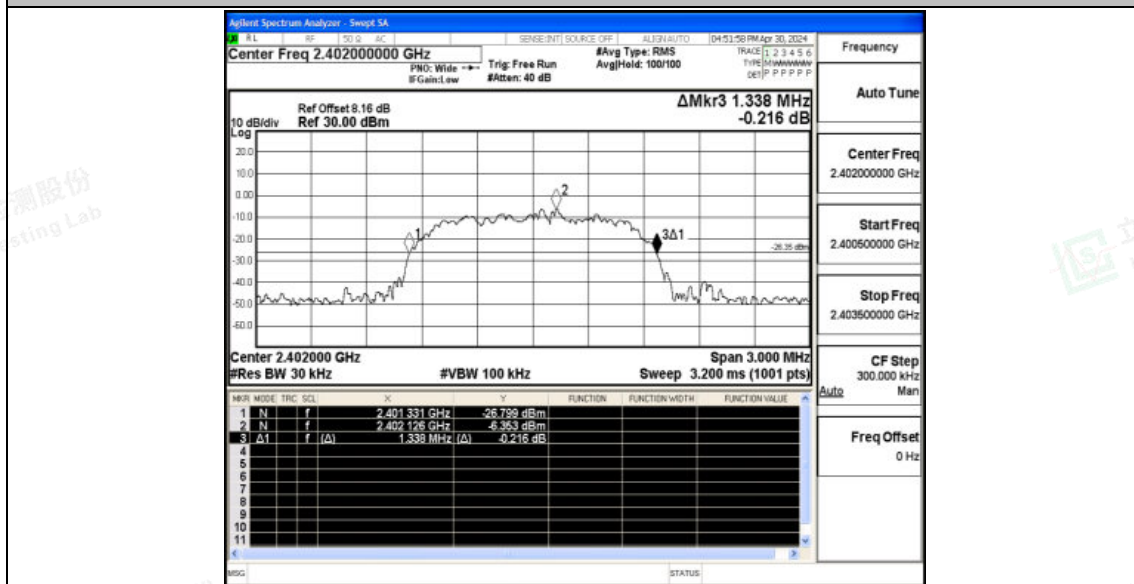
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2DH5_Ant1_2402



2DH5_Ant1_2441

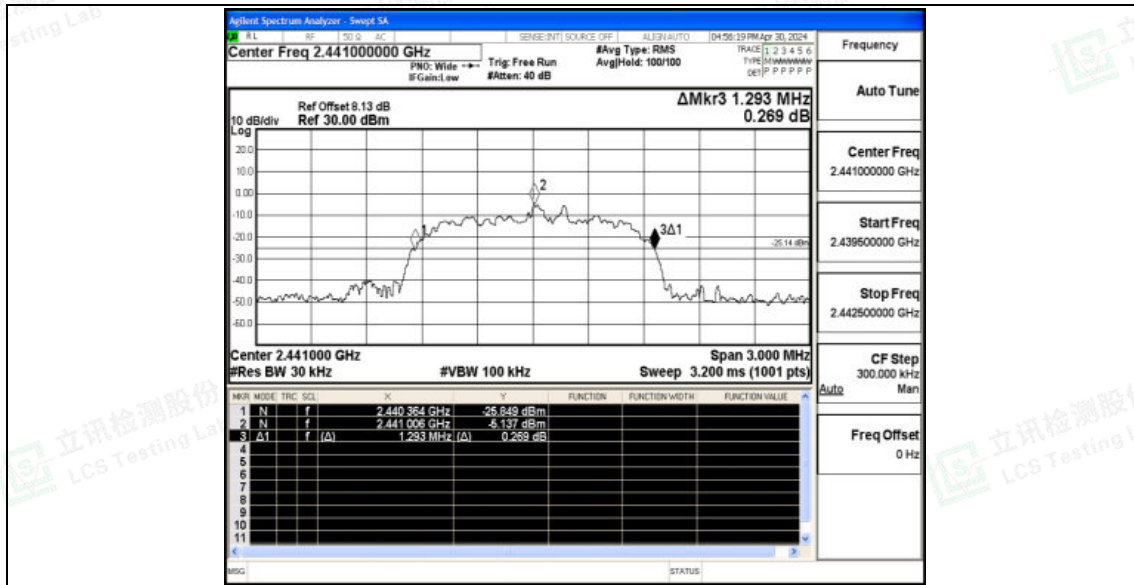


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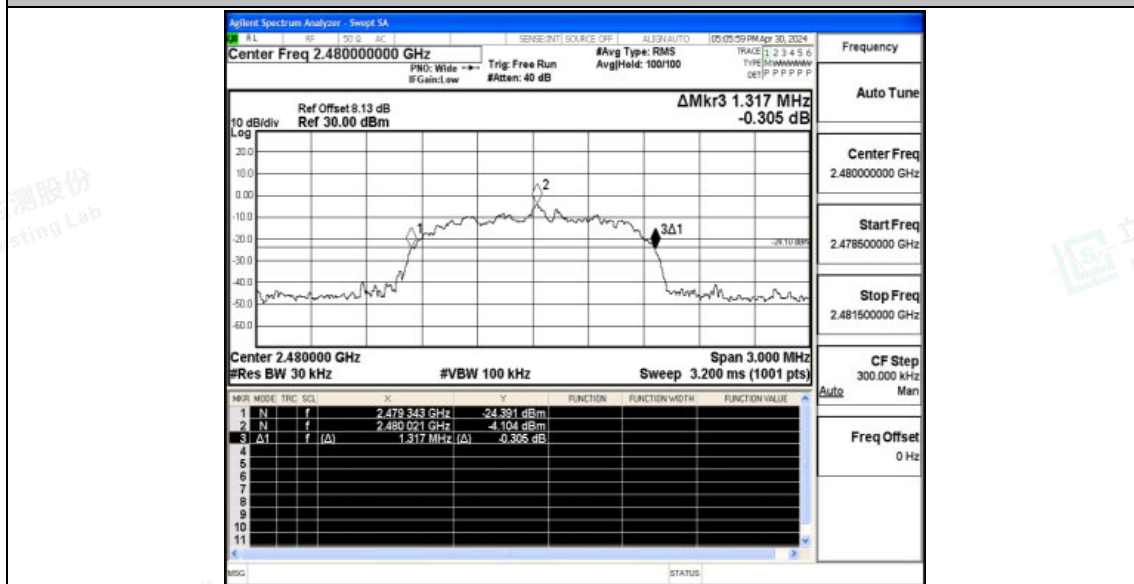
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2DH5_Ant1_2480



3DH5_Ant1_2402

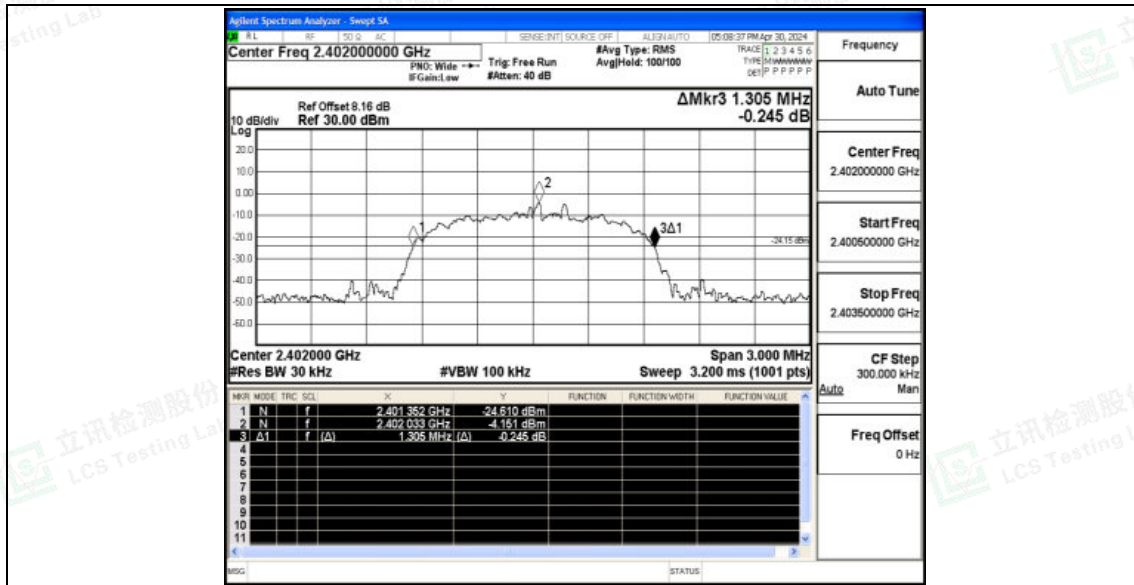


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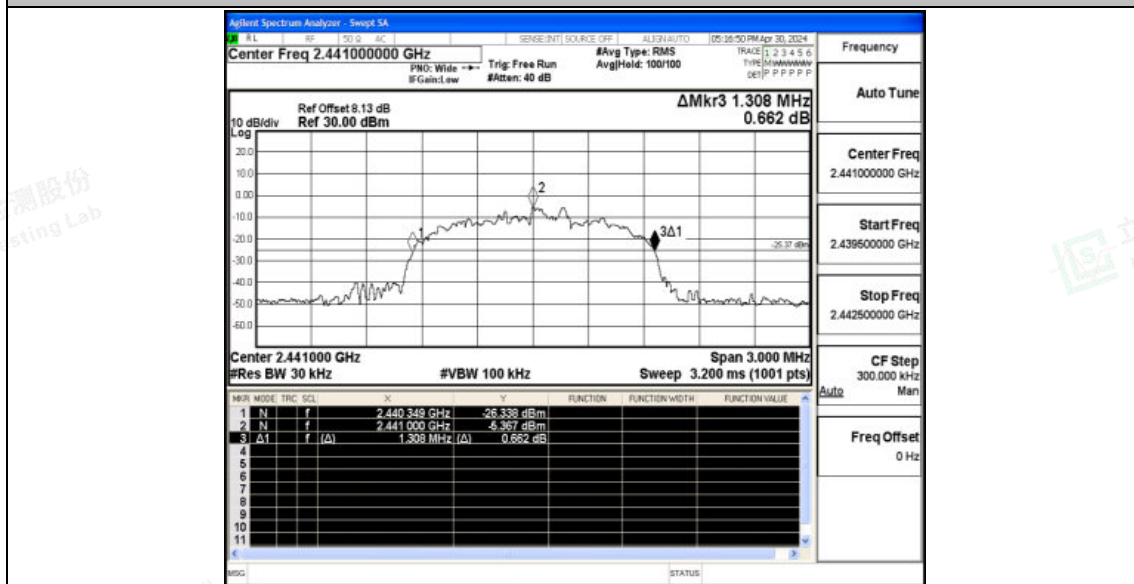
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3DH5_Ant1_2441



3DH5_Ant1_2480

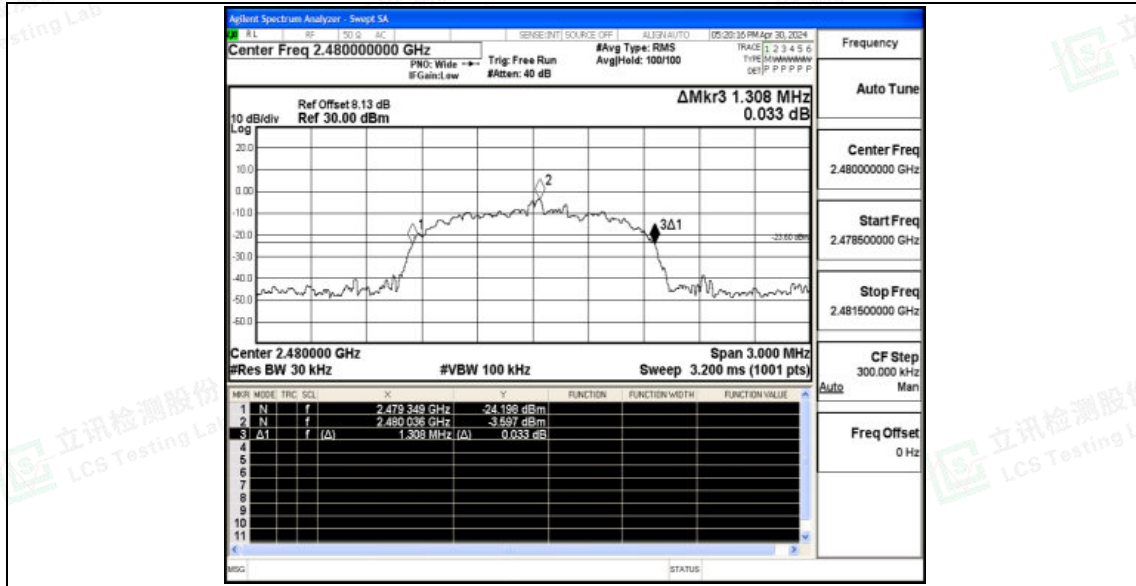


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A.2 Maximum conducted output power

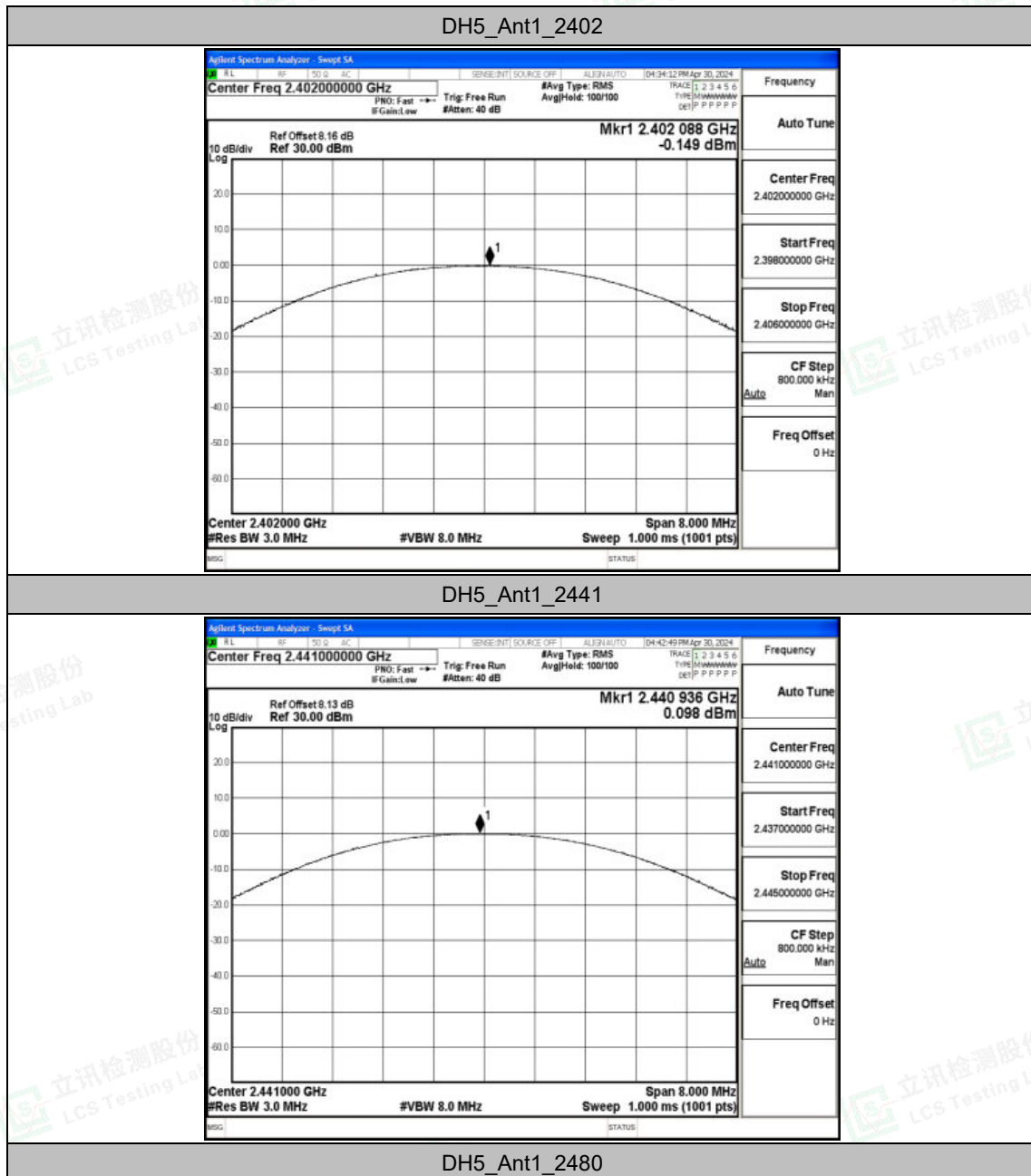
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.15	≤20.97	PASS
		2441	0.10	≤20.97	PASS
		2480	-0.46	≤20.97	PASS
2DH5	Ant1	2402	0.43	≤20.97	PASS
		2441	-0.69	≤20.97	PASS
		2480	0.19	≤20.97	PASS
3DH5	Ant1	2402	0.05	≤20.97	PASS
		2441	-0.36	≤20.97	PASS
		2480	0.30	≤20.97	PASS





Test Graphs

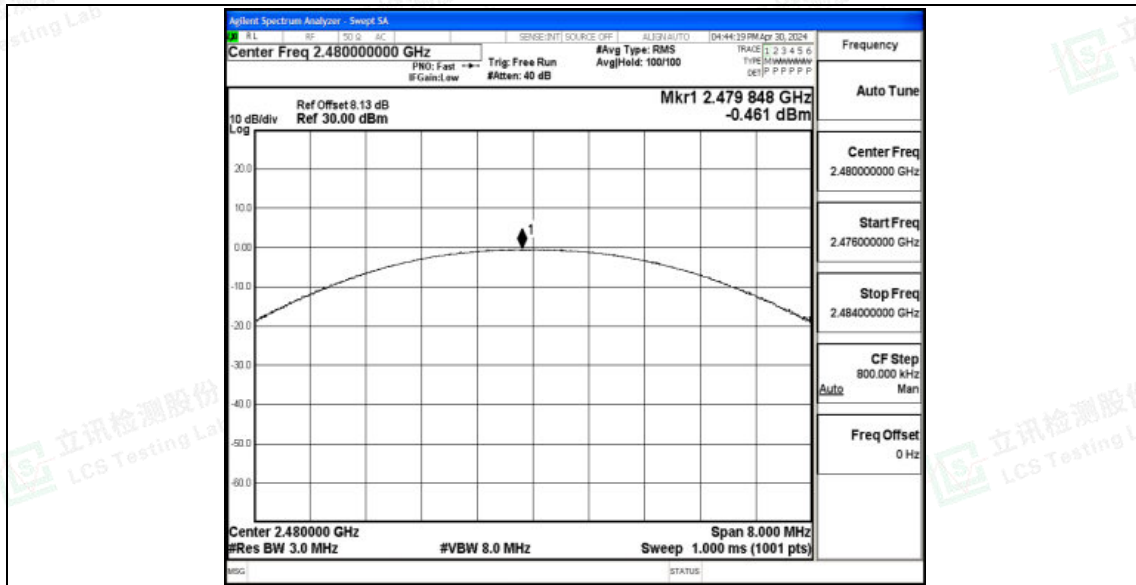


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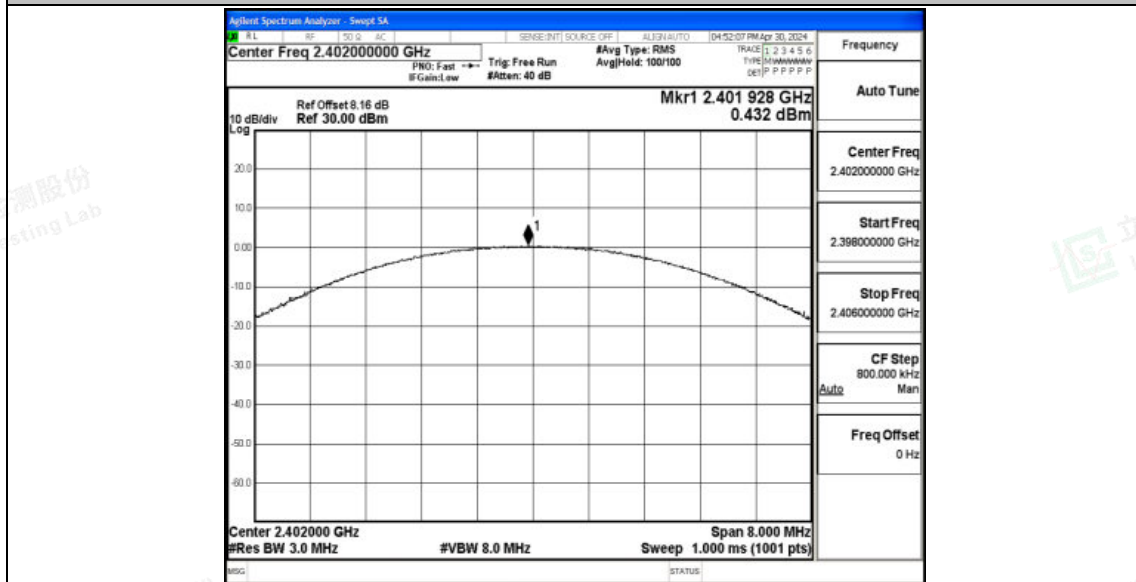
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2DH5_Ant1_2402



2DH5_Ant1_2441

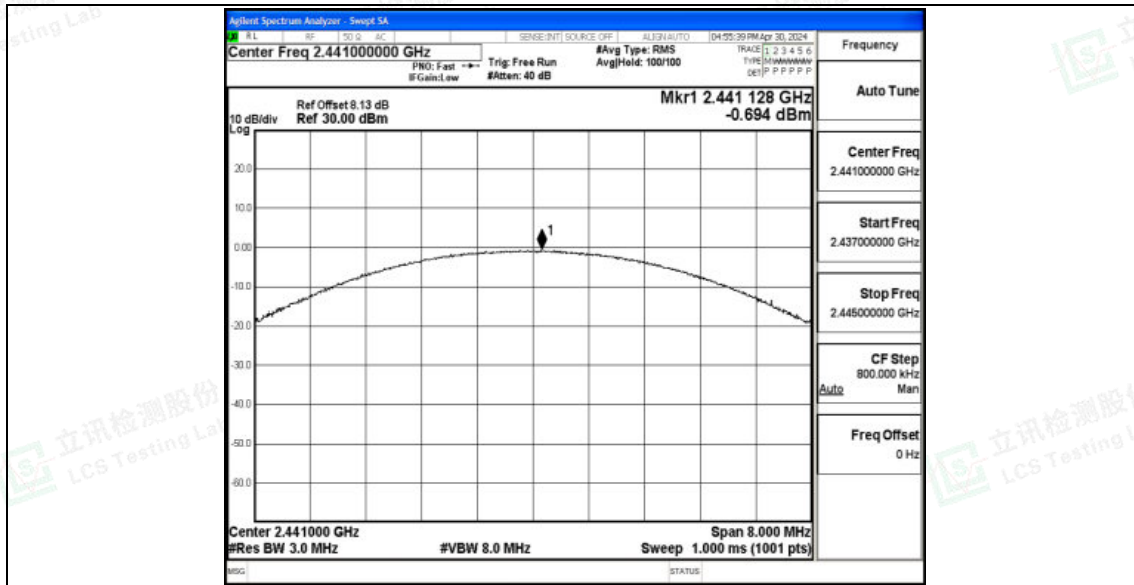


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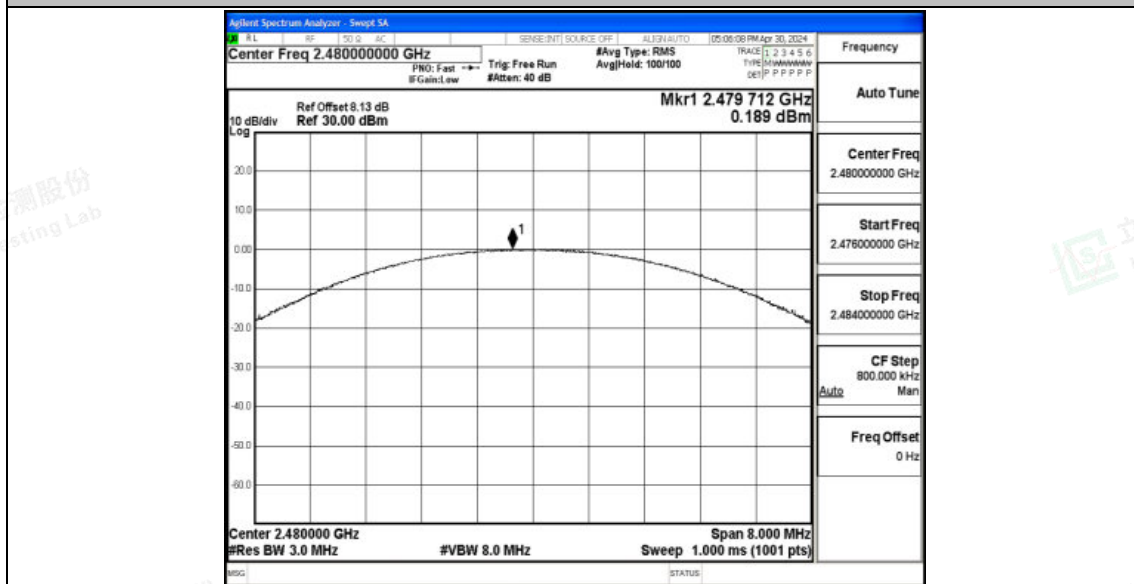
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2480



3DH5_Ant1_2402

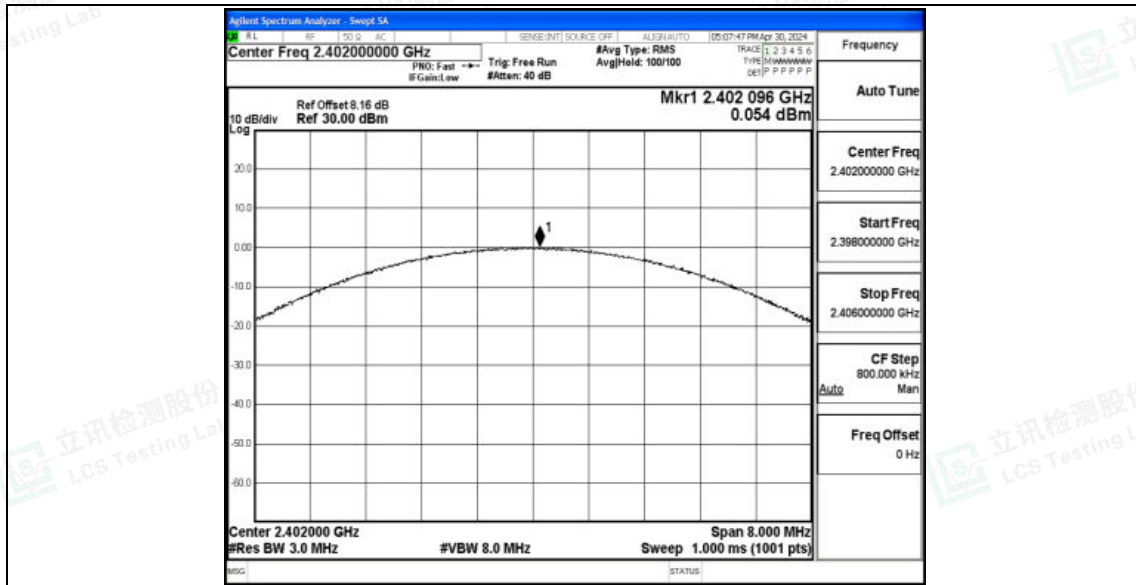


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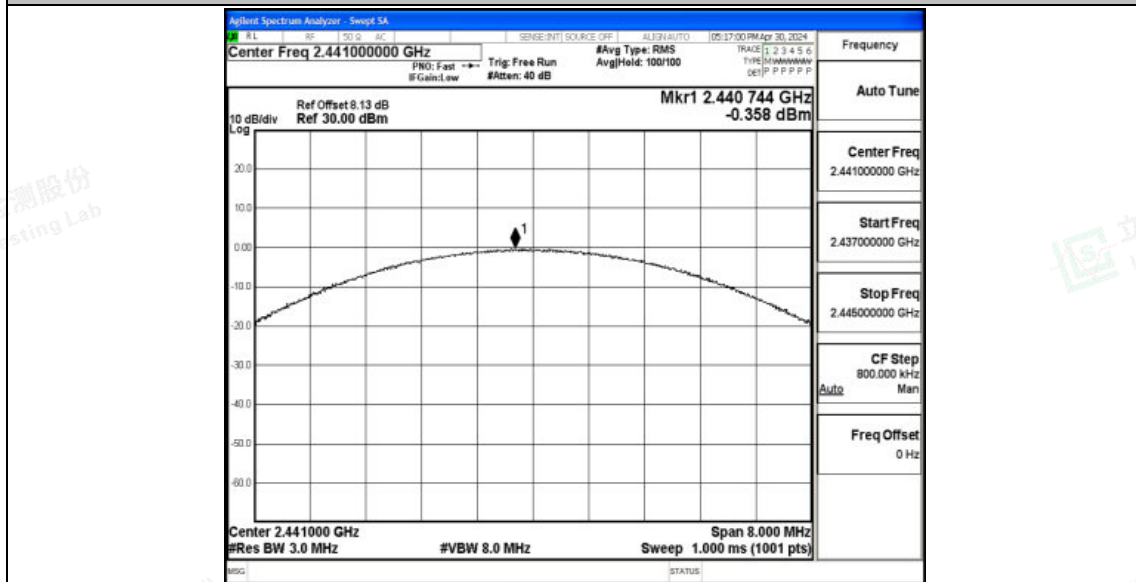
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3DH5_Ant1_2441



3DH5_Ant1_2480

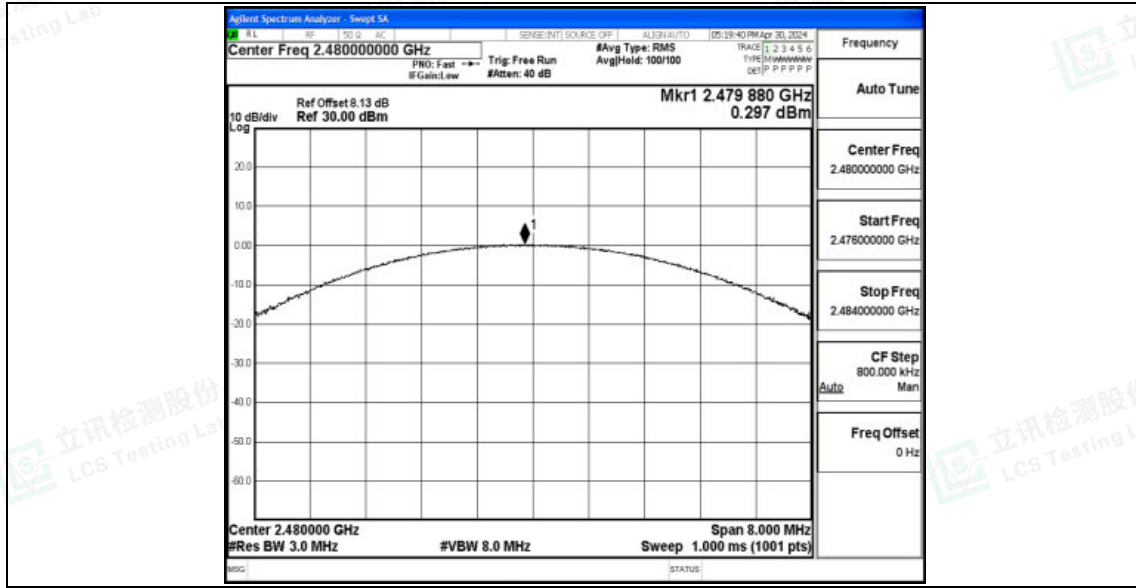


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.948	≥ 0.676	PASS
2DH5	Ant1	Hop	1.156	≥ 0.892	PASS
3DH5	Ant1	Hop	1.048	≥ 0.872	PASS

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Test Graphs

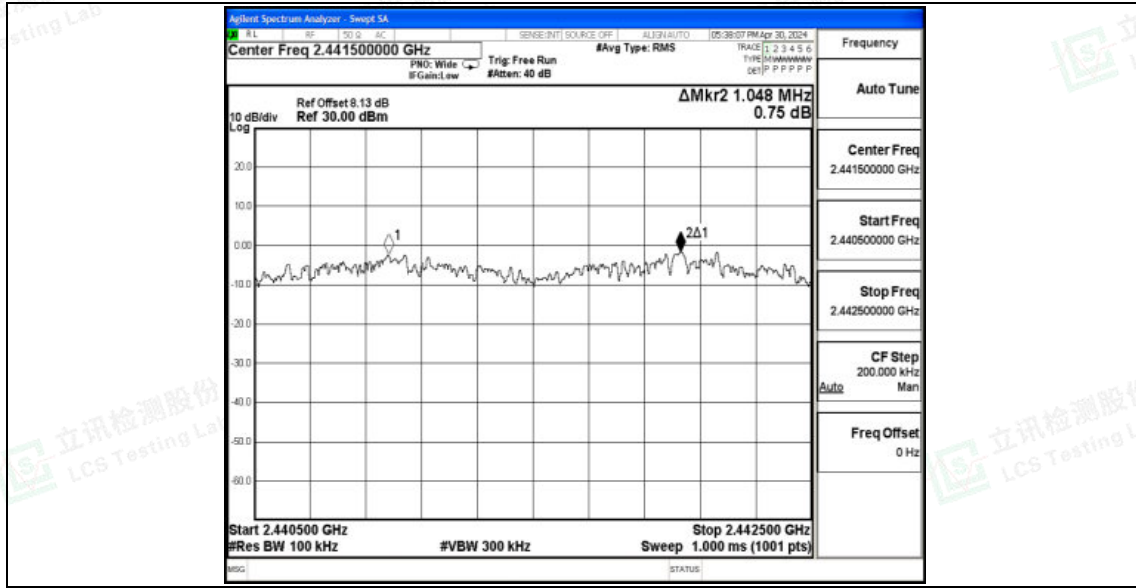


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A.4 Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	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

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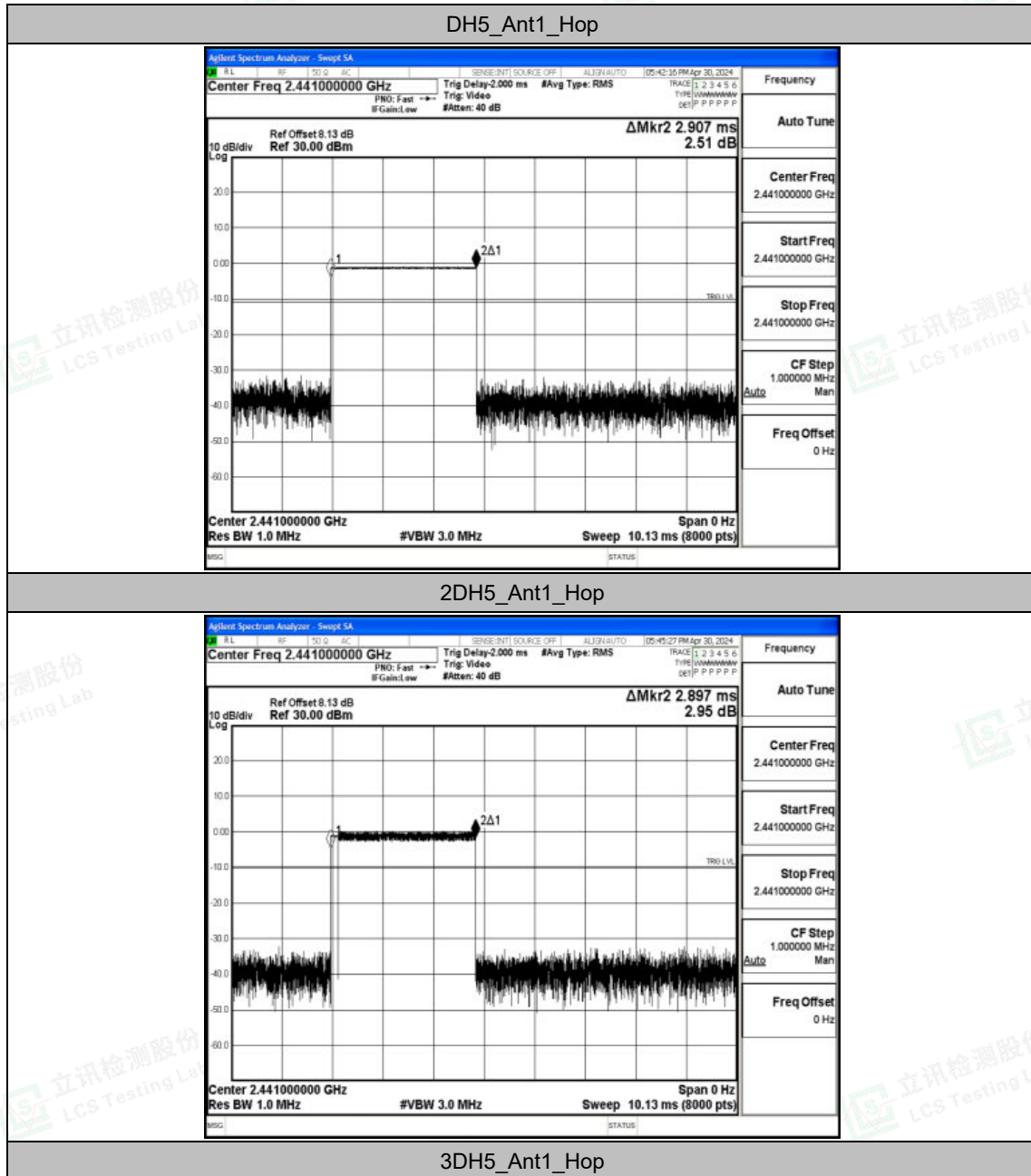
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Test Graphs

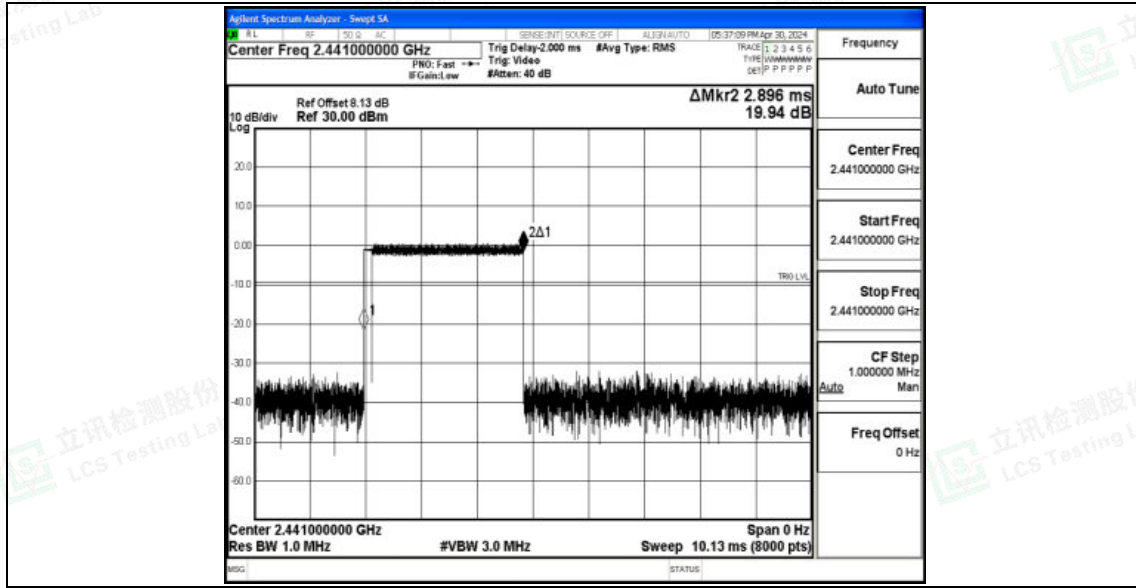


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A.5 Number of hopping channels

Test Result

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

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Test Graphs

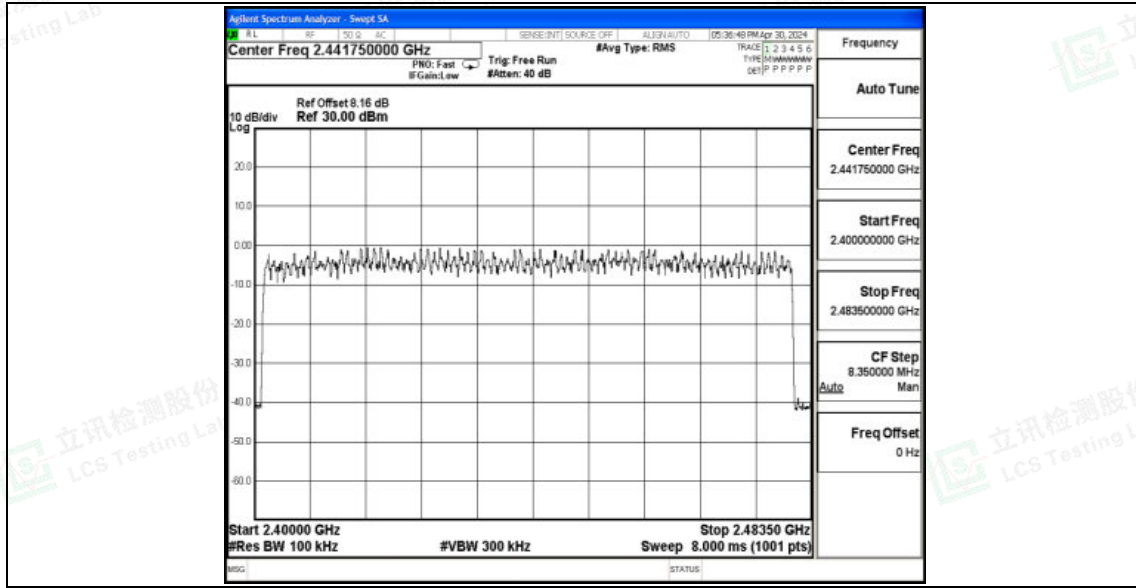


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.63	-50.35	≤ -20.63	PASS
		High	2480	-1.10	-50.56	≤ -21.1	PASS
		Low	Hop_2402	-2.56	-49.96	≤ -22.56	PASS
		High	Hop_2480	-1.72	-49.89	≤ -21.72	PASS
2DH5	Ant1	Low	2402	-3.34	-50.56	≤ -23.34	PASS
		High	2480	-4.27	-51.06	≤ -24.27	PASS
		Low	Hop_2402	-5.48	-49.98	≤ -25.48	PASS
		High	Hop_2480	-2.35	-49.69	≤ -22.35	PASS
3DH5	Ant1	Low	2402	-3.28	-51.49	≤ -23.28	PASS
		High	2480	-2.89	-50.63	≤ -22.89	PASS
		Low	Hop_2402	-4.00	-49.85	≤ -24	PASS
		High	Hop_2480	-1.61	-49.02	≤ -21.61	PASS



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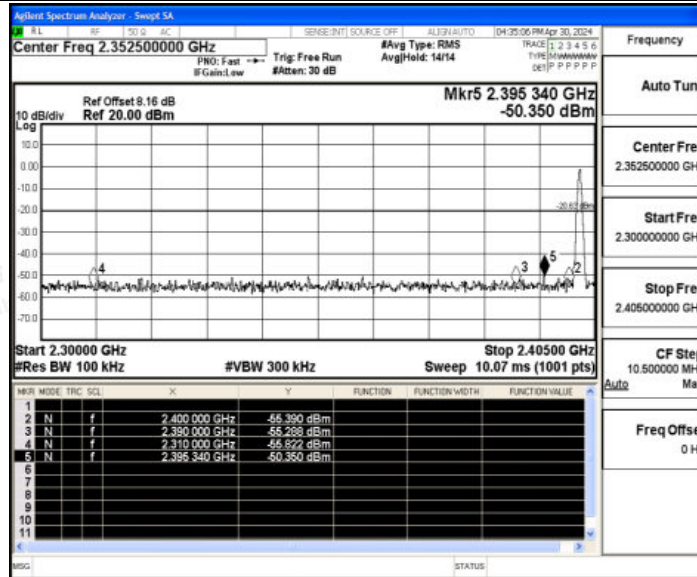
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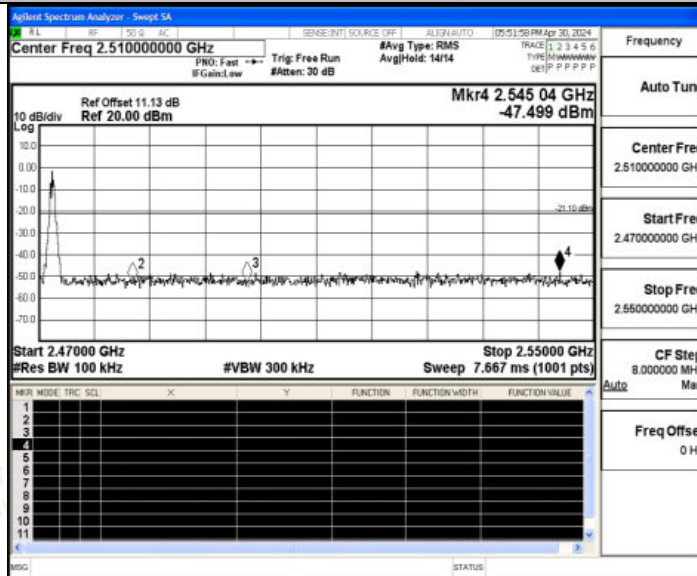


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

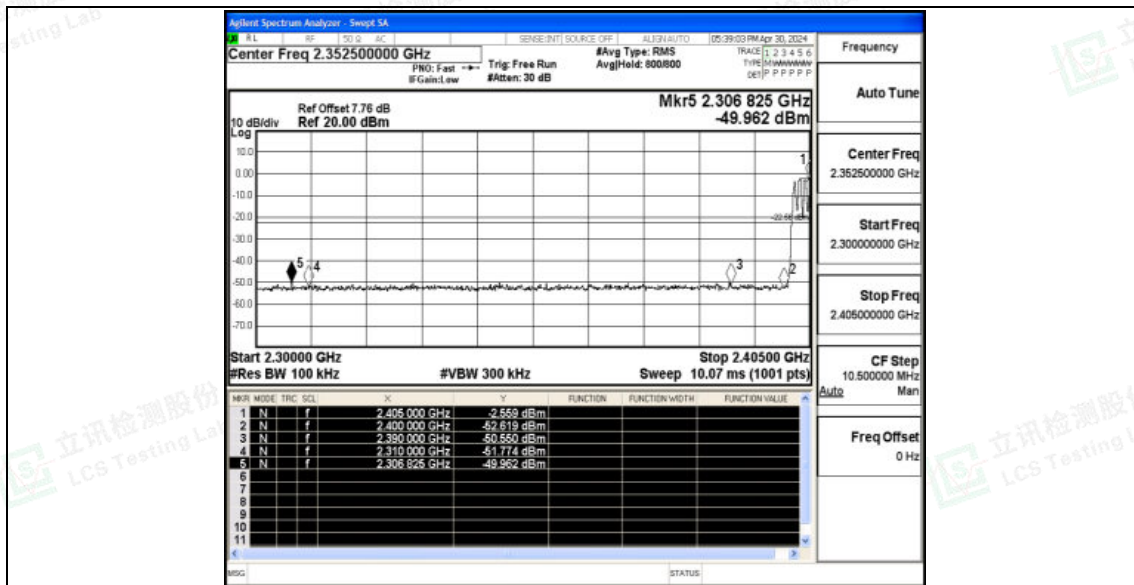


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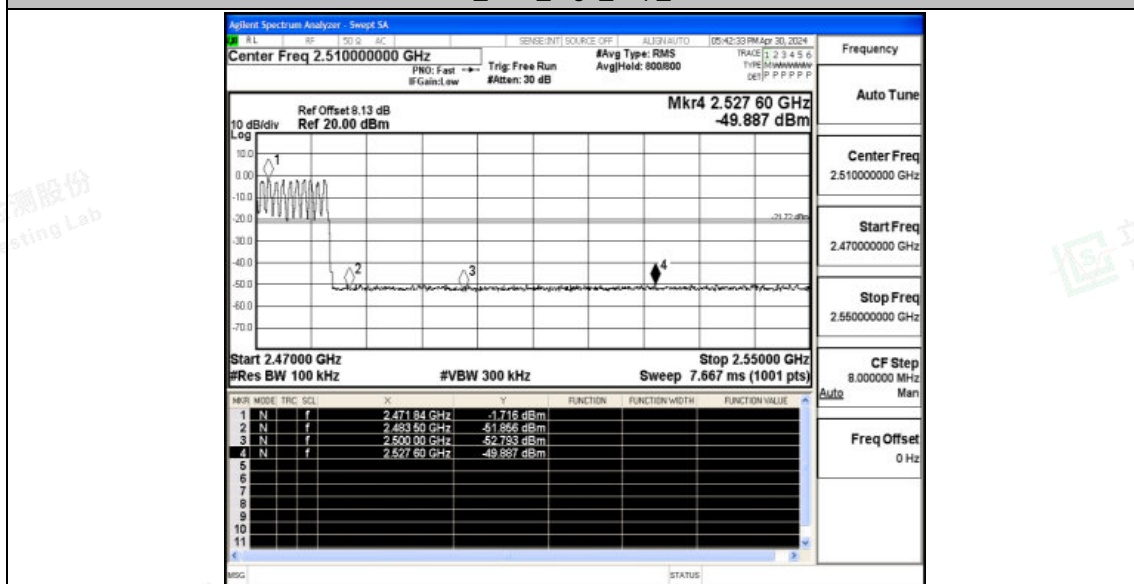
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

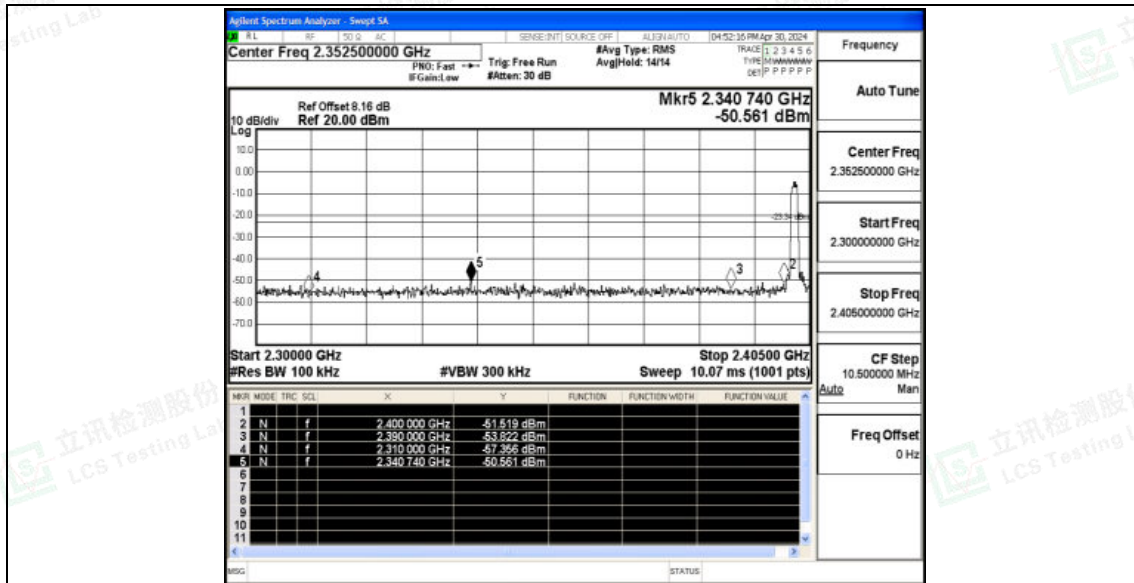


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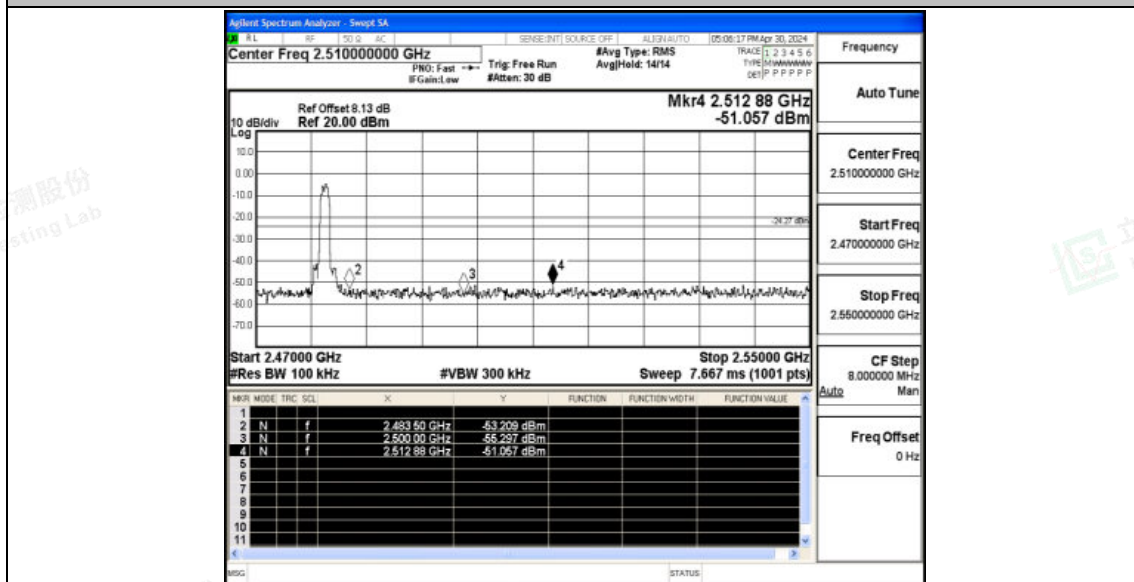
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

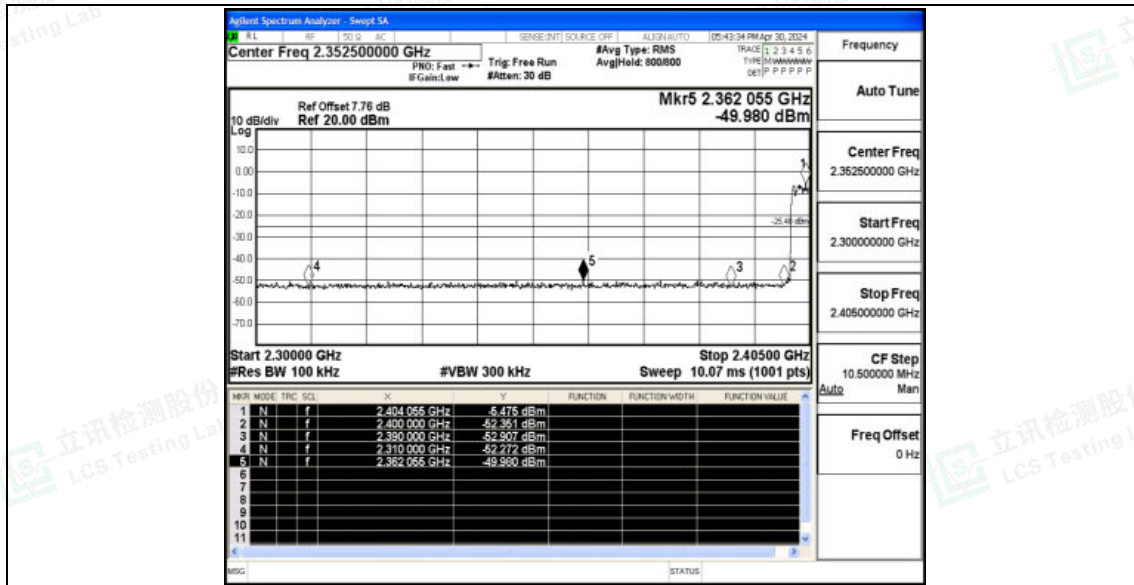


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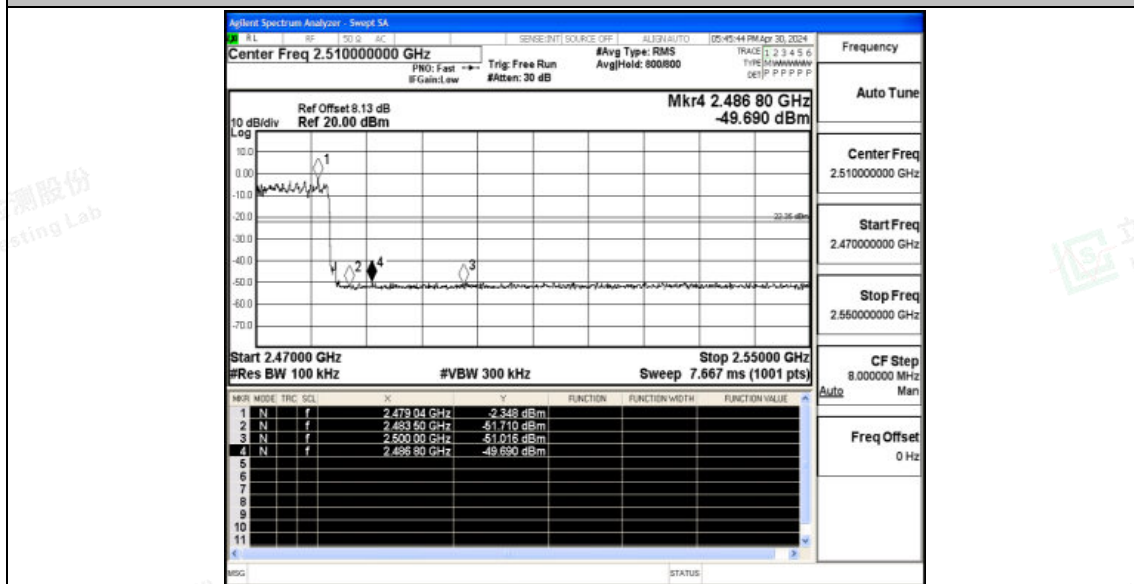
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

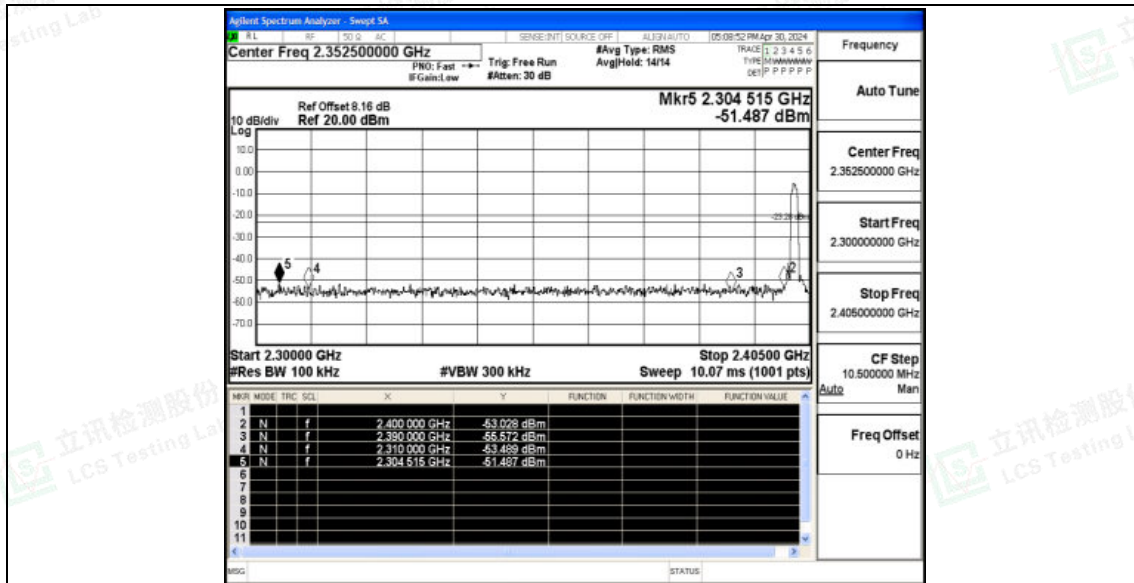


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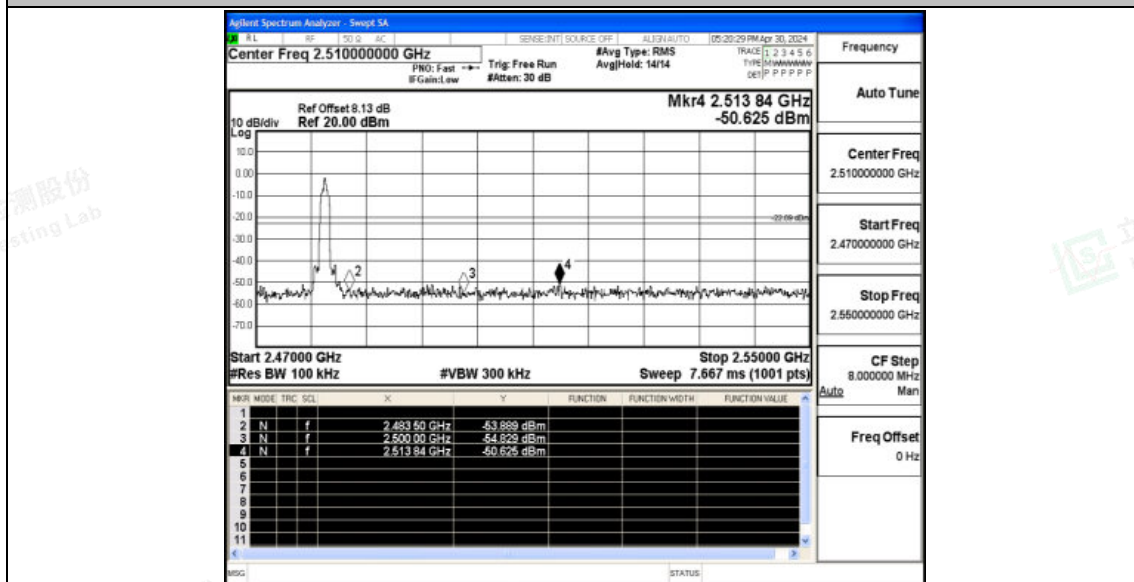
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

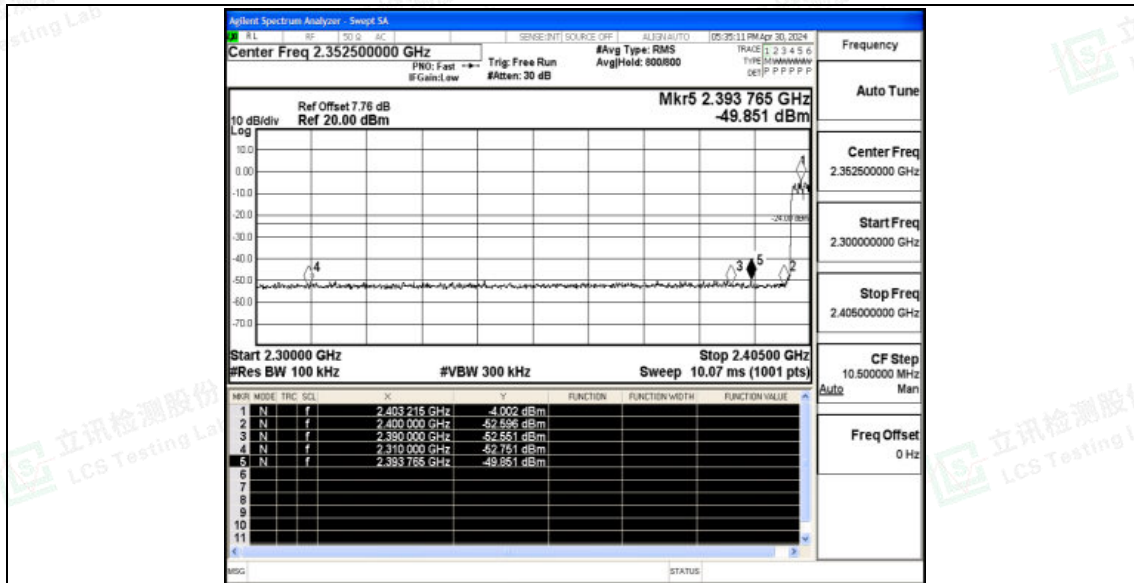


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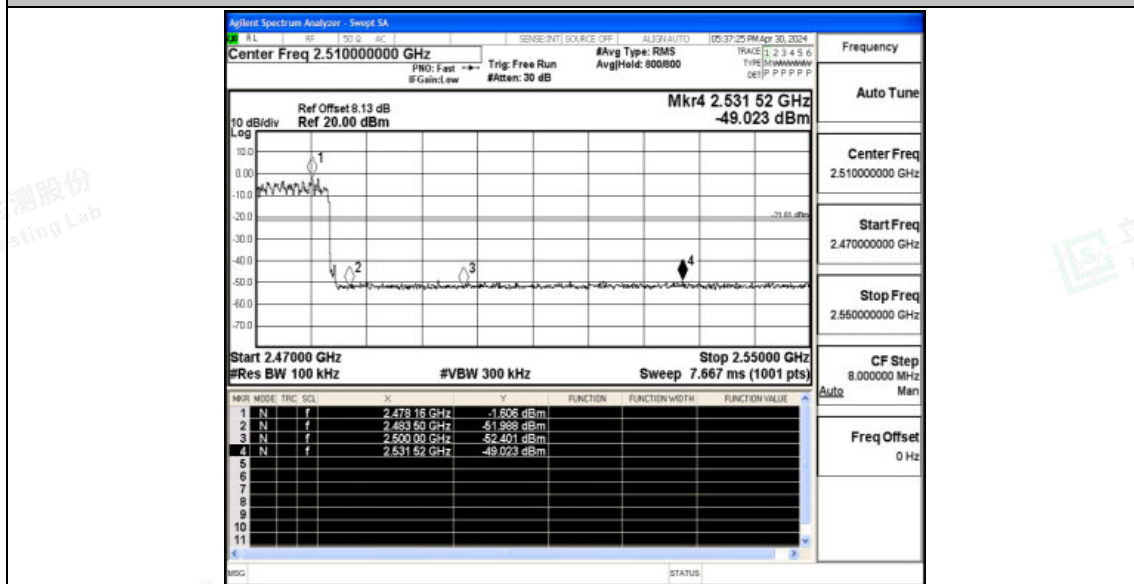
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3DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	-0.63	-61.61	≤-20.63	PASS
			1000~26500	-0.63	-48.87	≤-20.63	PASS
		2441	30~1000	-0.45	-61.82	≤-20.45	PASS
			1000~26500	-0.45	-49.06	≤-20.45	PASS
		2480	30~1000	-1.10	-61.57	≤-21.1	PASS
			1000~26500	-1.10	-49.23	≤-21.1	PASS
2DH5	Ant1	2402	30~1000	-3.34	-60.95	≤-23.34	PASS
			1000~26500	-3.34	-49.45	≤-23.34	PASS
		2441	30~1000	-3.21	-61.31	≤-23.21	PASS
			1000~26500	-3.21	-49.22	≤-23.21	PASS
		2480	30~1000	-4.27	-61.44	≤-24.27	PASS
			1000~26500	-4.27	-49.03	≤-24.27	PASS
3DH5	Ant1	2402	30~1000	-3.28	-61.32	≤-23.28	PASS
			1000~26500	-3.28	-48.65	≤-23.28	PASS
		2441	30~1000	-4.32	-61.26	≤-24.32	PASS
			1000~26500	-4.32	-49.63	≤-24.32	PASS
		2480	30~1000	-2.89	-61.8	≤-22.89	PASS
			1000~26500	-2.89	-49.17	≤-22.89	PASS



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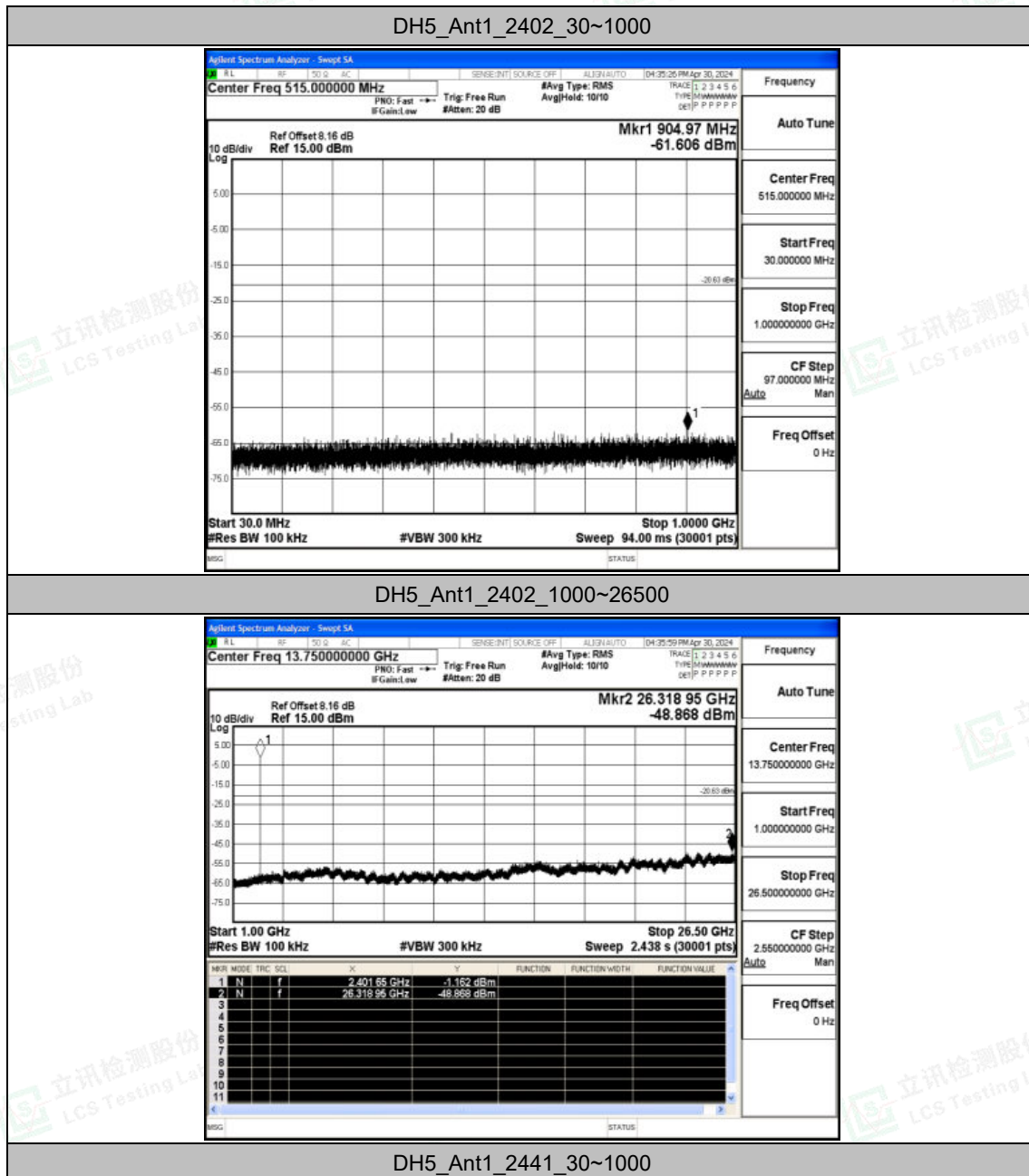
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Test Graphs

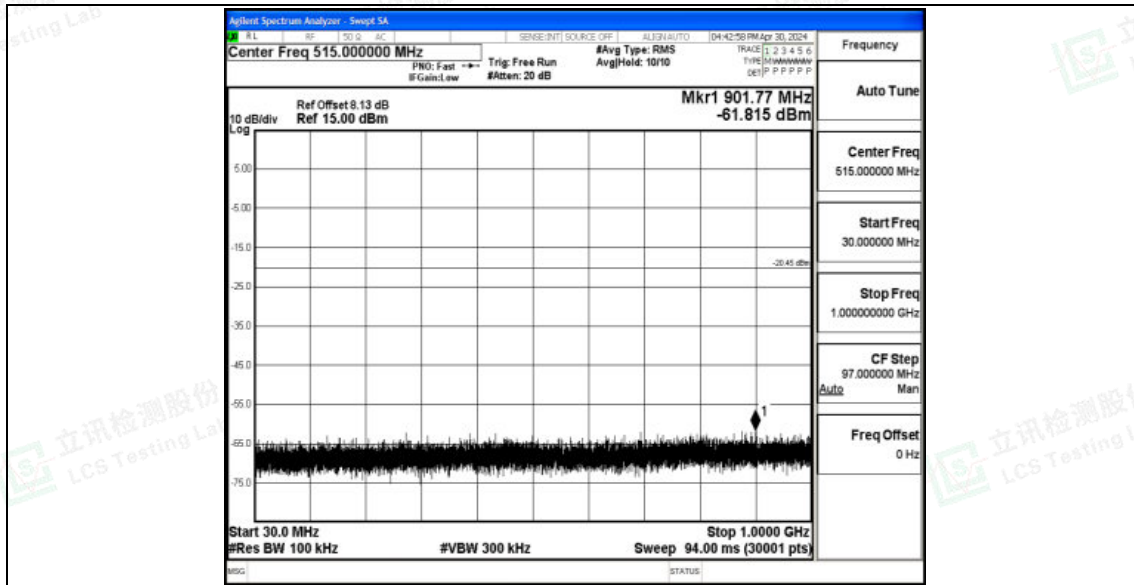


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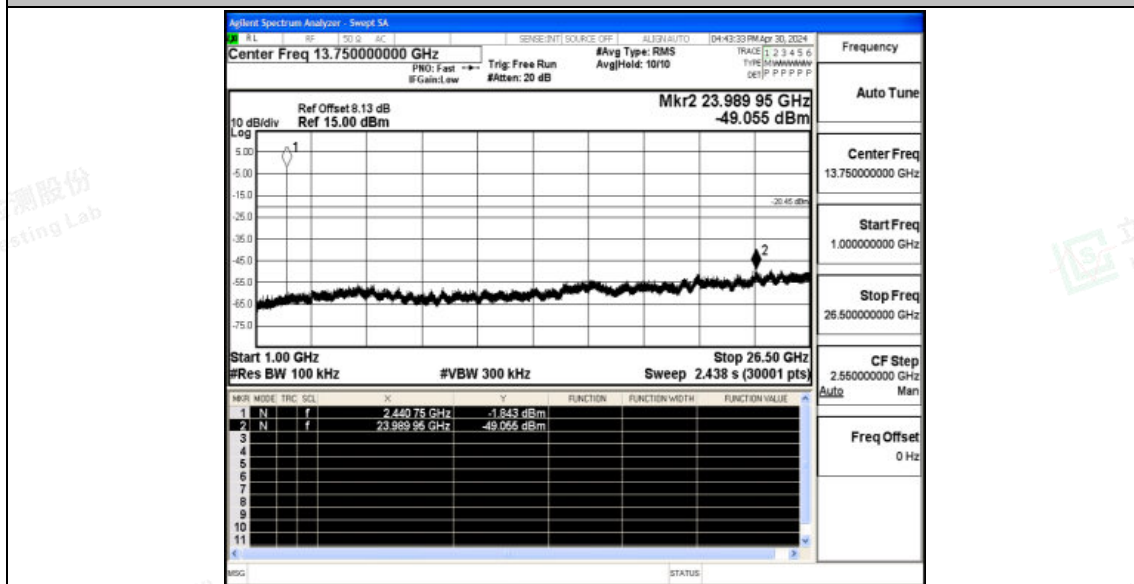
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_30~1000

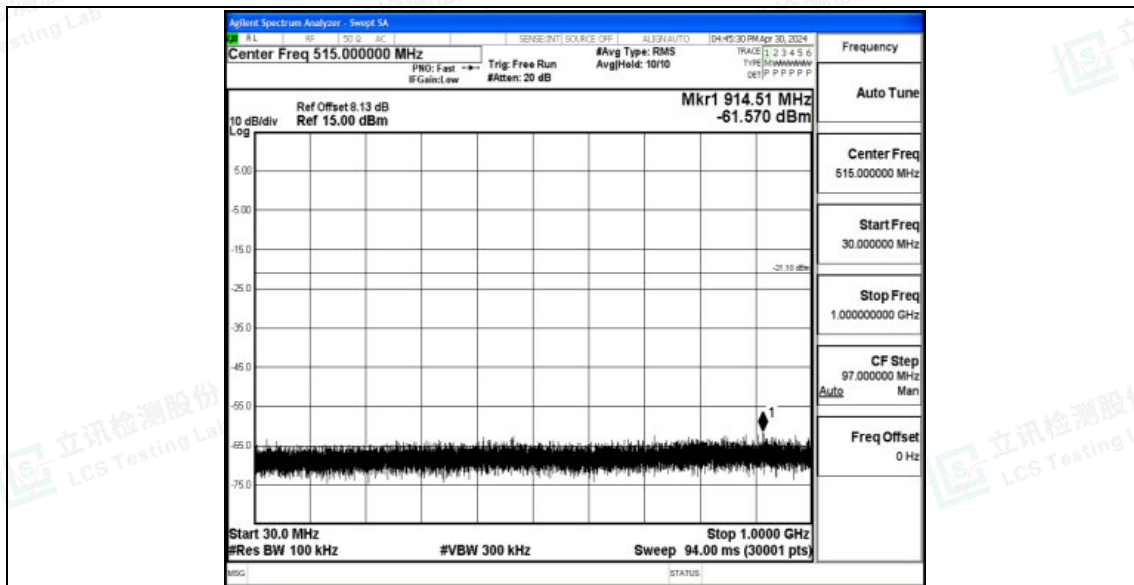


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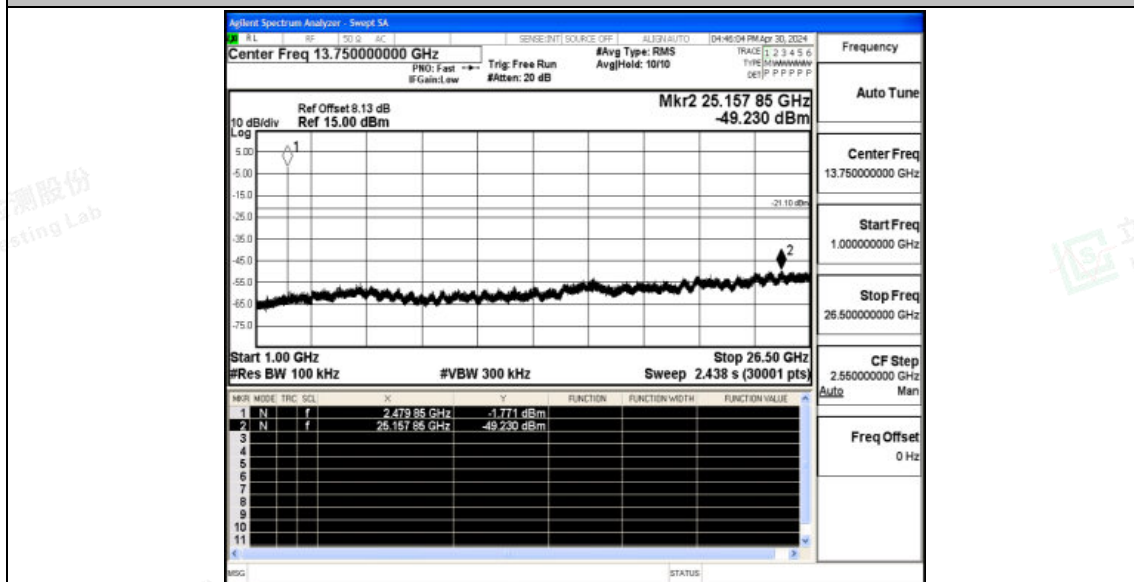
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_30~1000

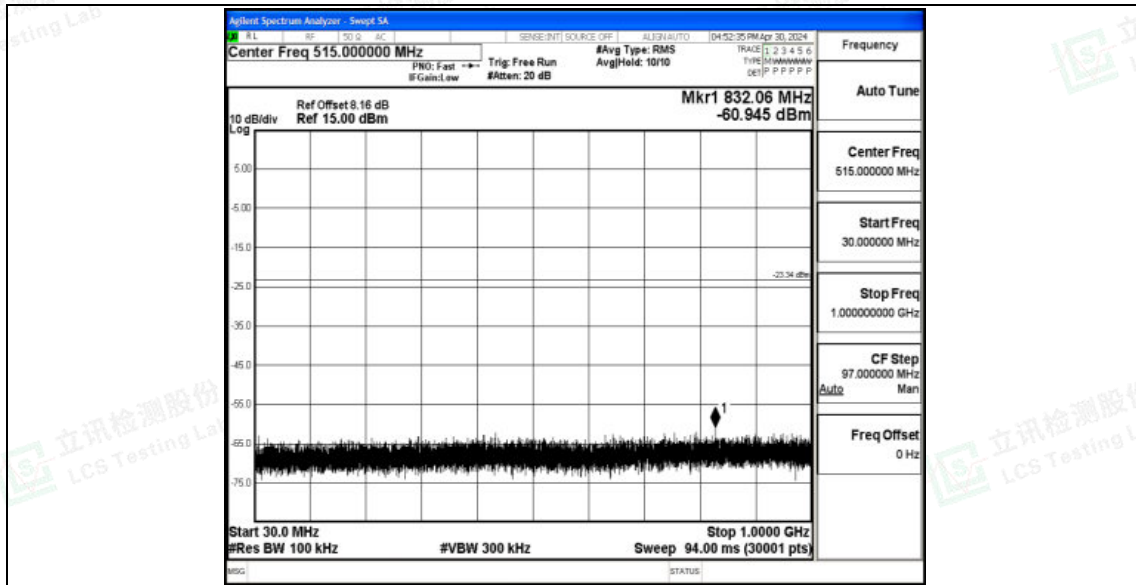


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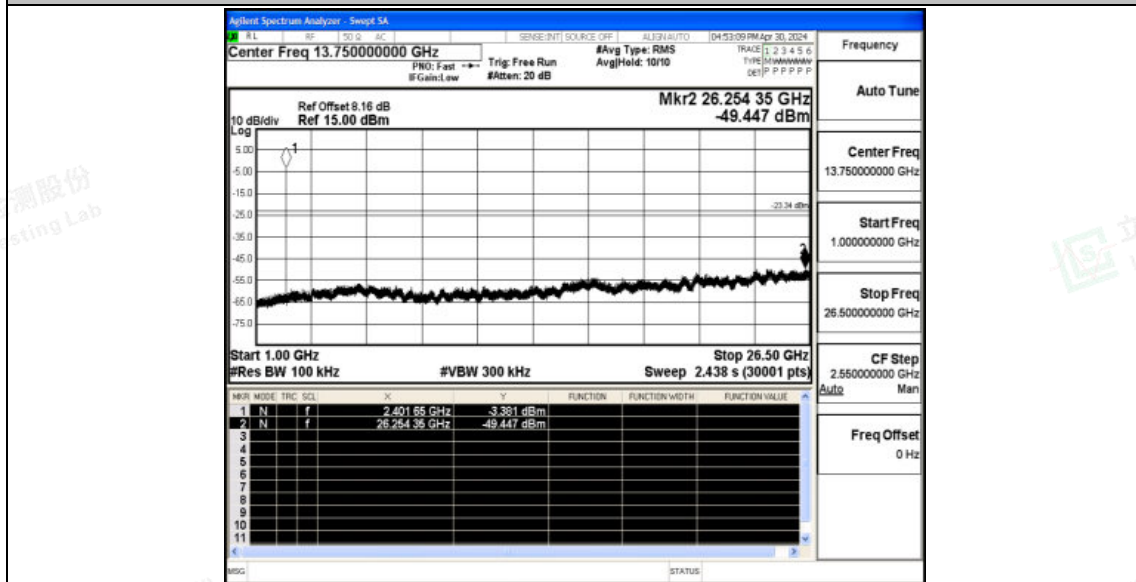
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_30~1000

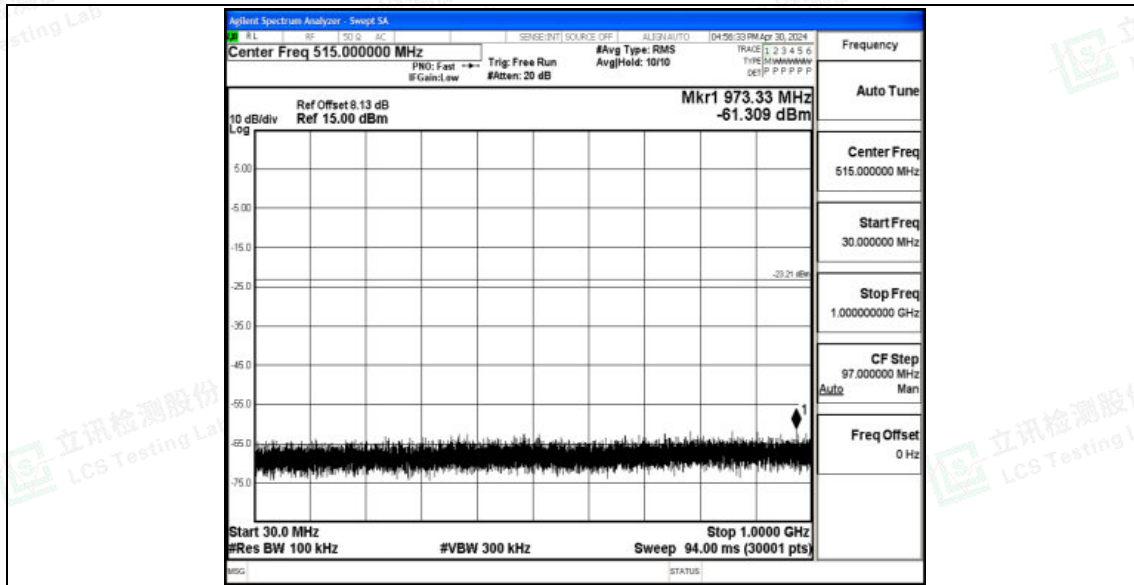


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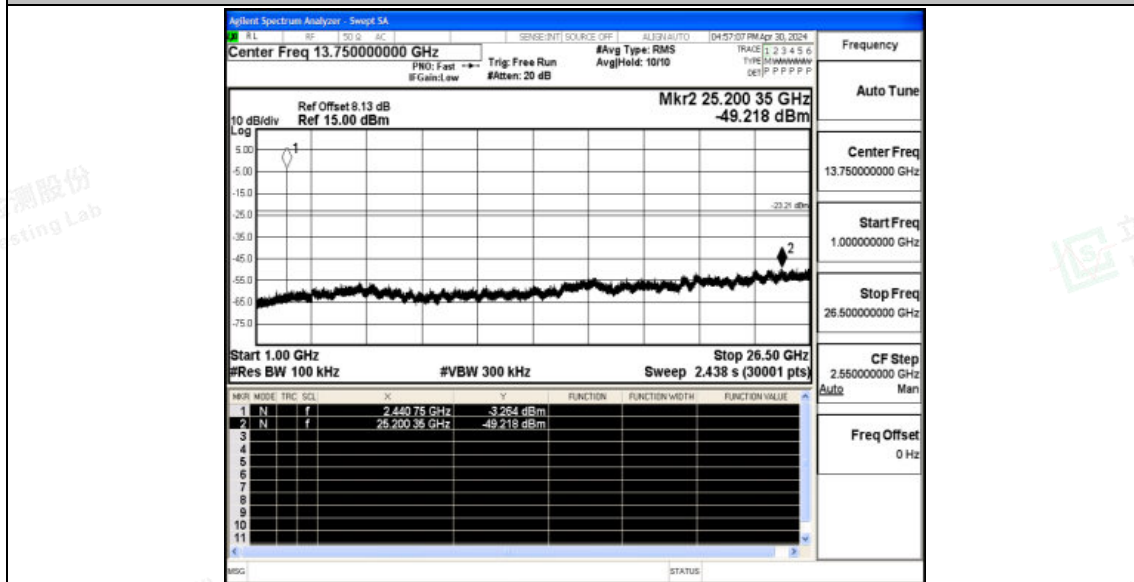
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2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_30~1000

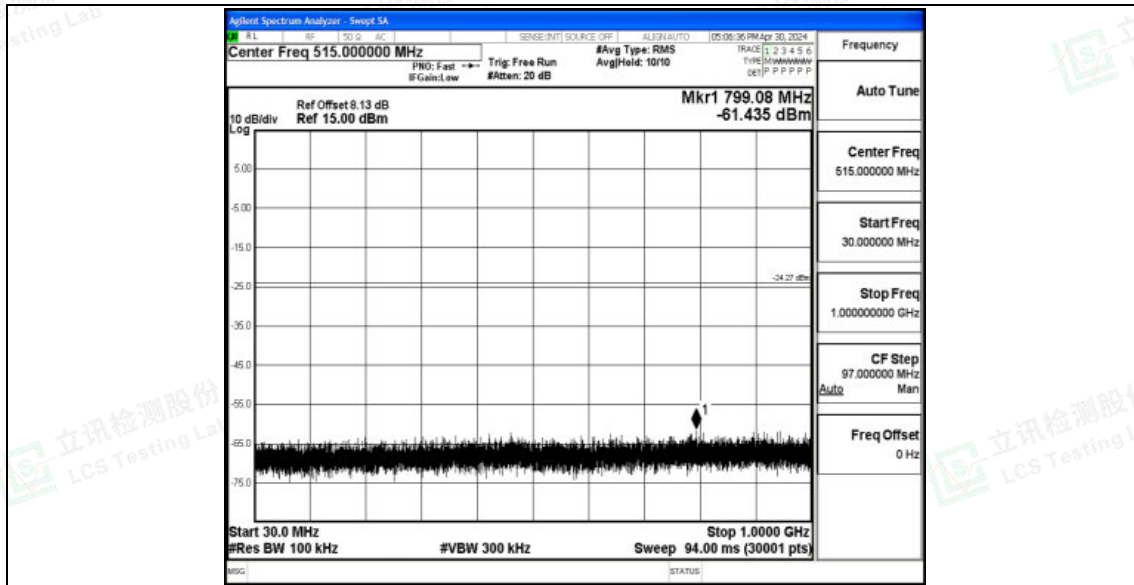


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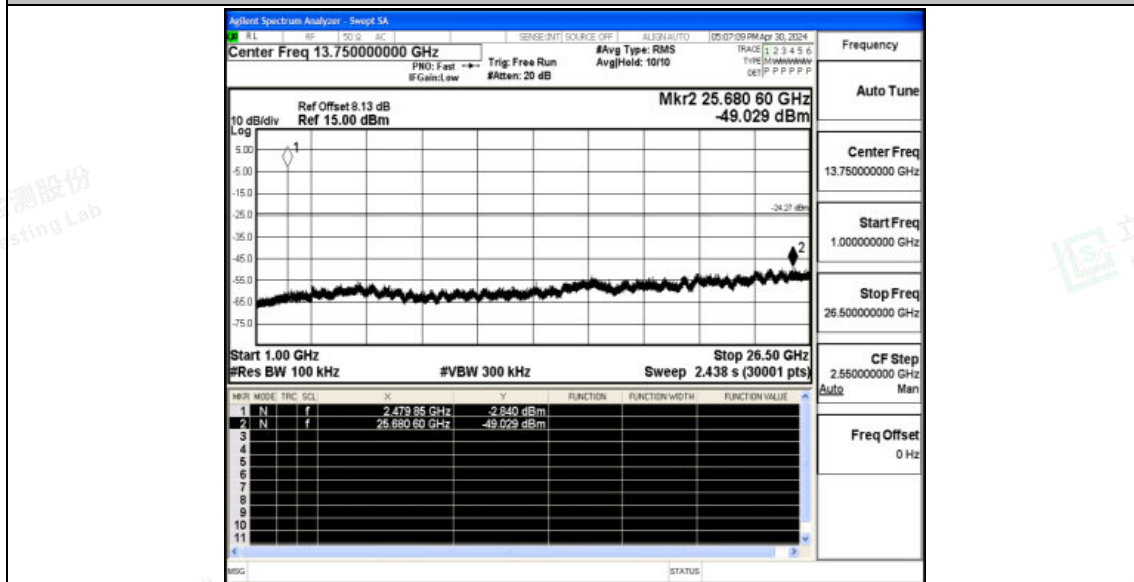
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_30~1000

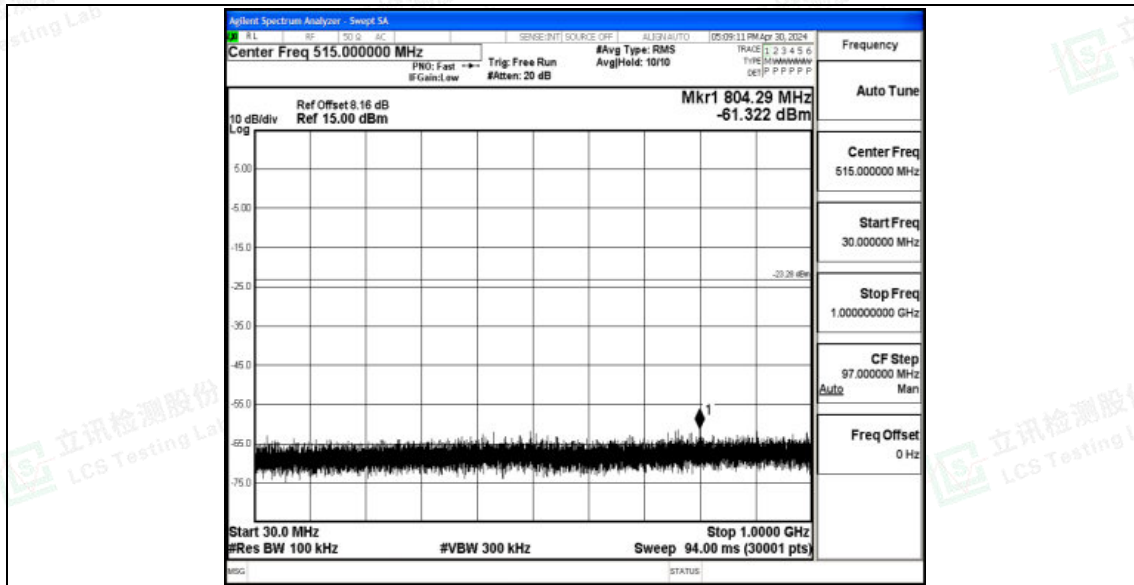


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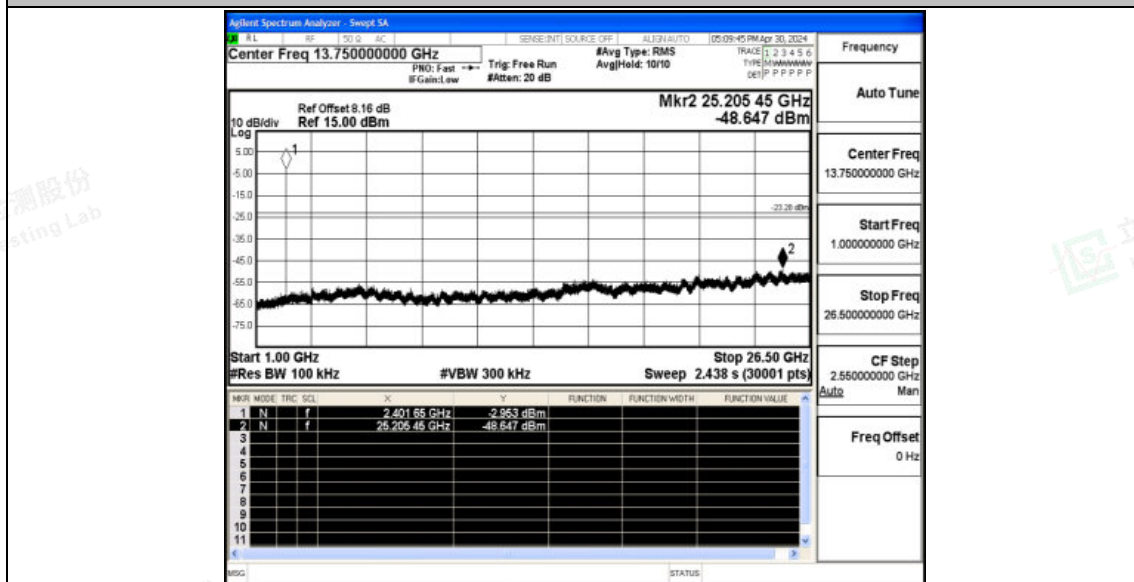
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_30~1000

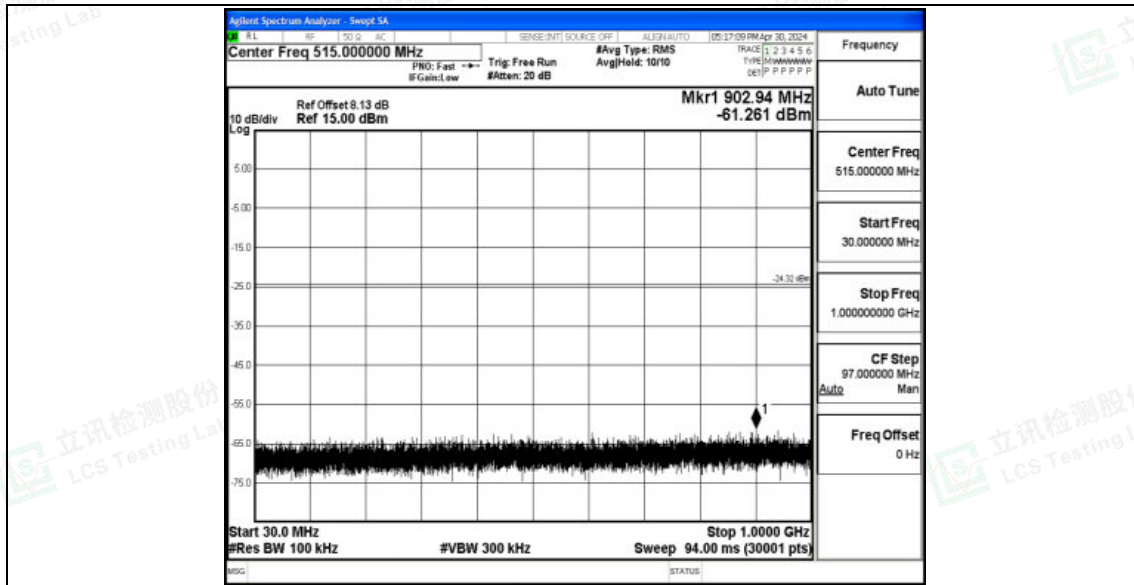


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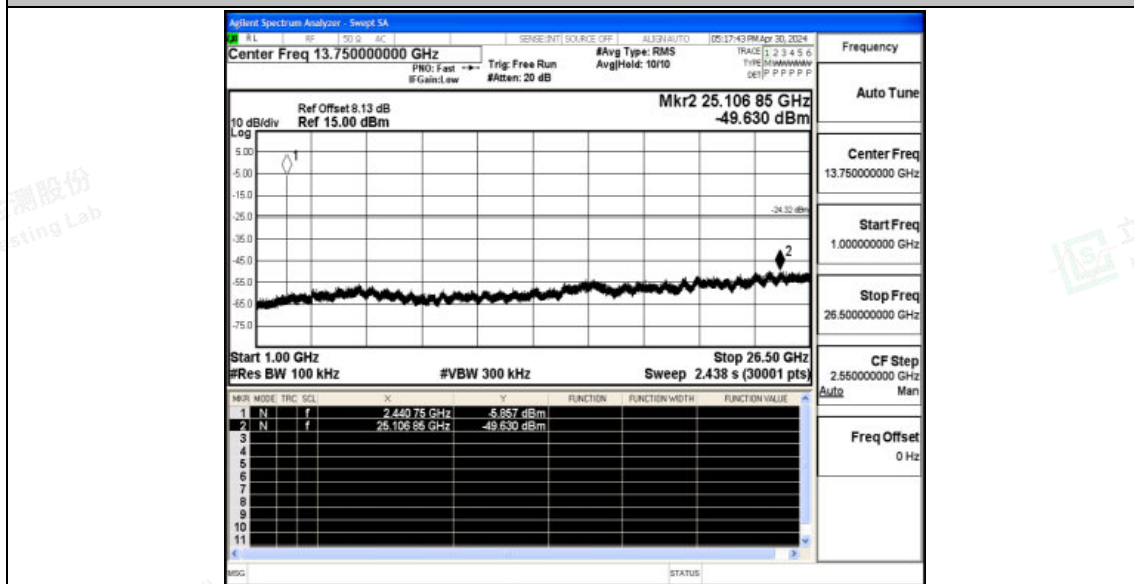
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_30~1000

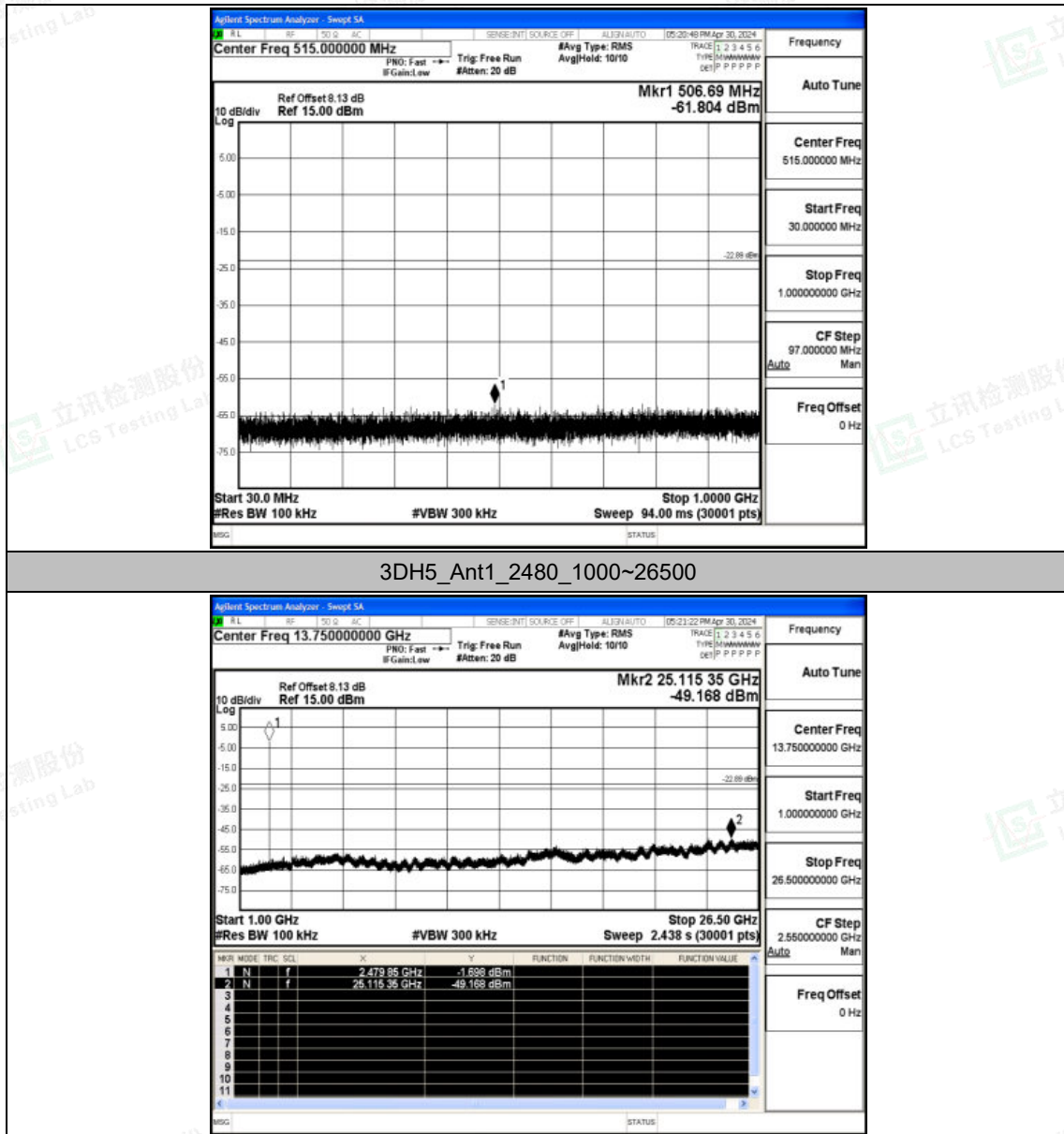


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Reference Level

Test Result

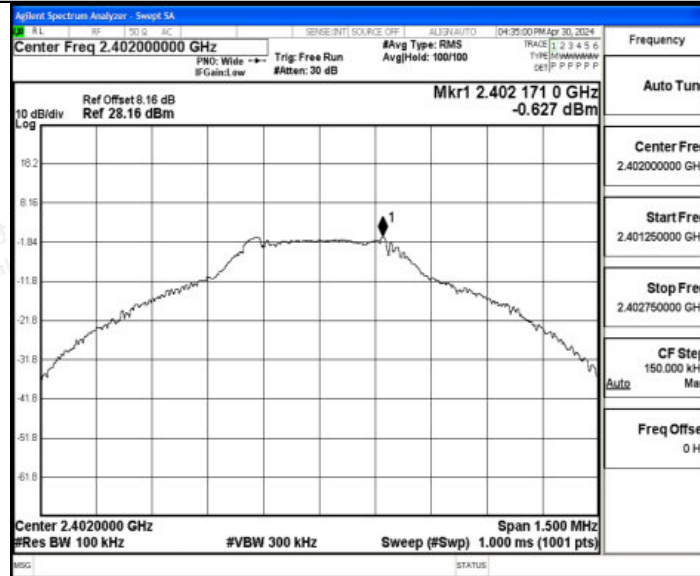
TestMode	Antenna	ChName	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	2402.17	-0.63	---	PASS
		2441	2441.17	-0.45	---	PASS
		2480	2480.18	-1.10	---	PASS
2DH5	Ant1	2402	2402.15	-3.34	---	PASS
		2441	2441.16	-3.21	---	PASS
		2480	2480.02	-4.27	---	PASS
3DH5	Ant1	2402	2401.99	-3.28	---	PASS
		2441	2440.98	-4.32	---	PASS
		2480	2480.04	-2.89	---	PASS



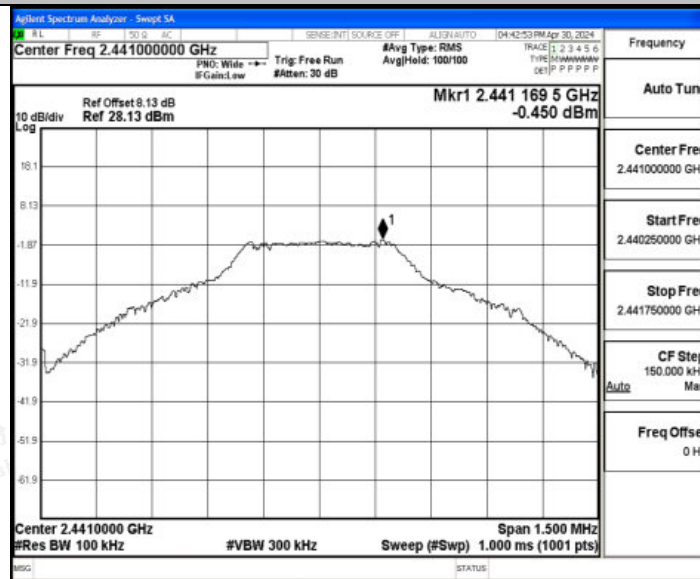


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

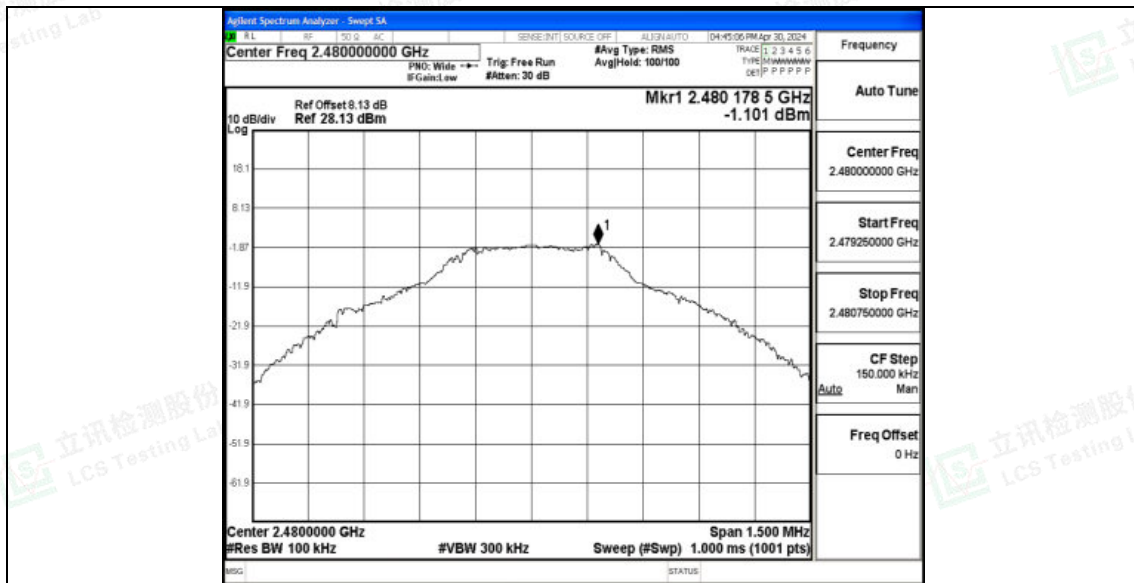


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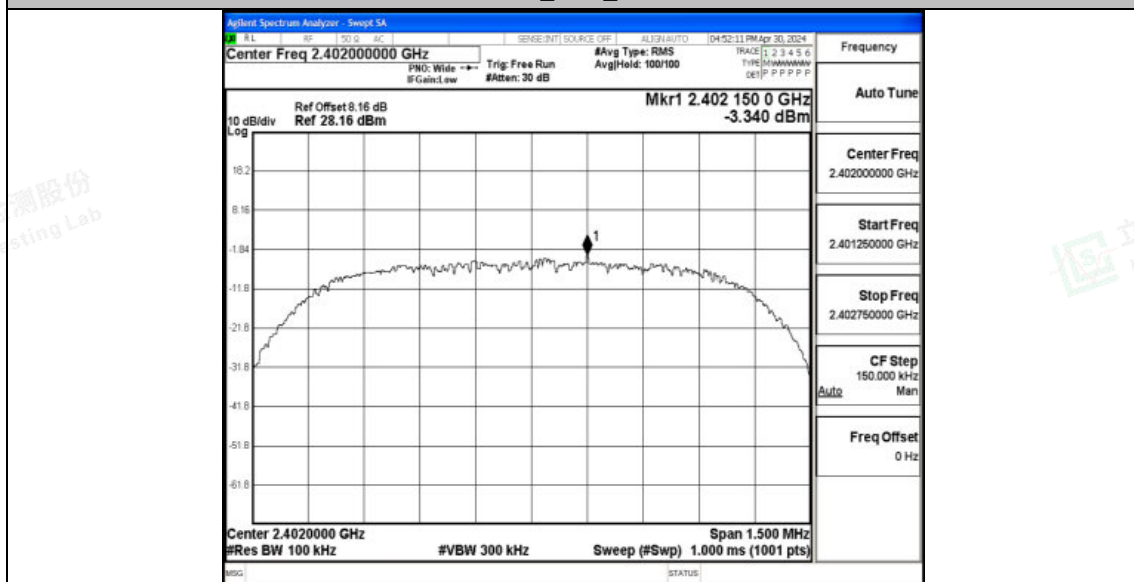
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2402



2DH5_Ant1_2441

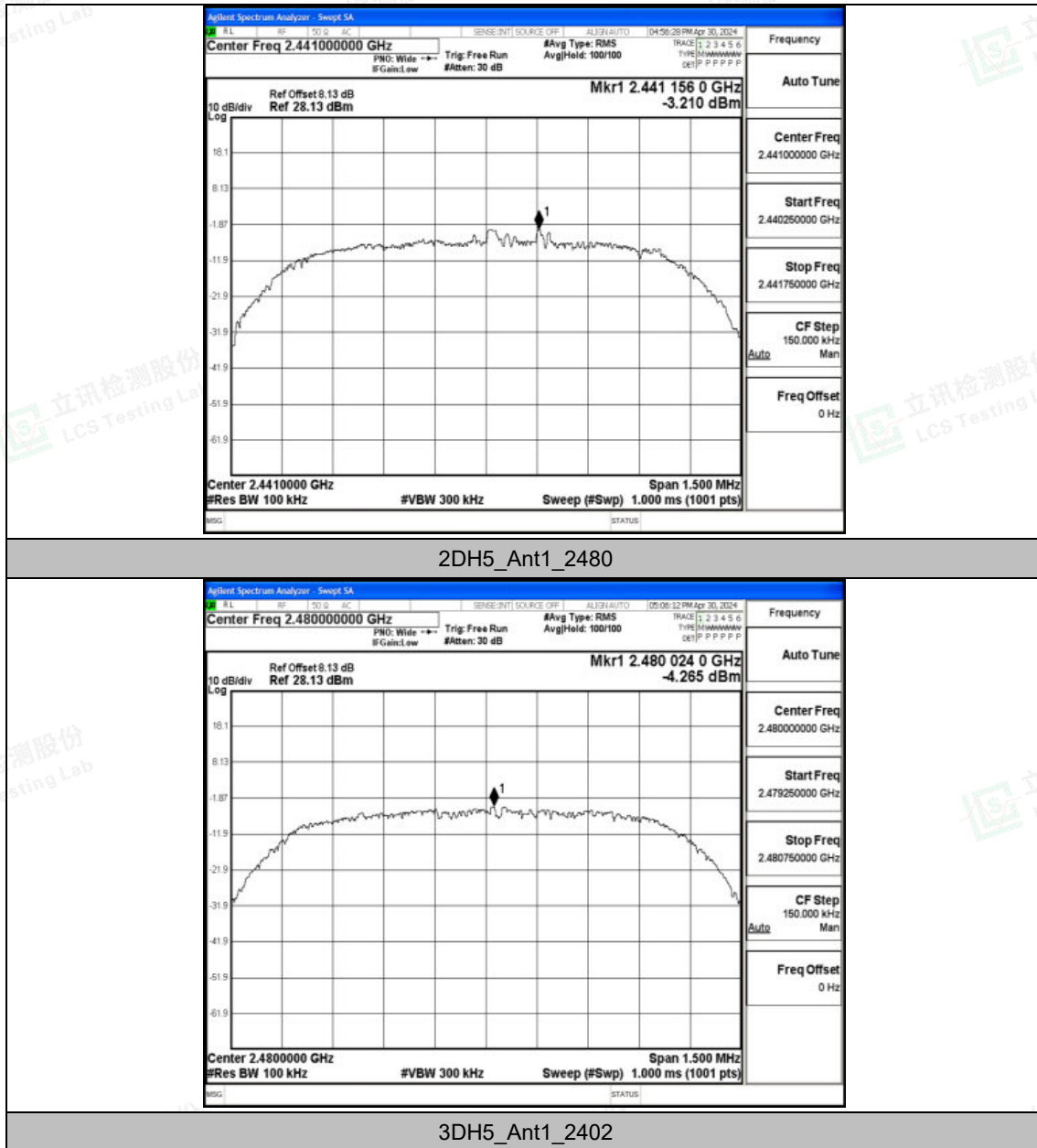


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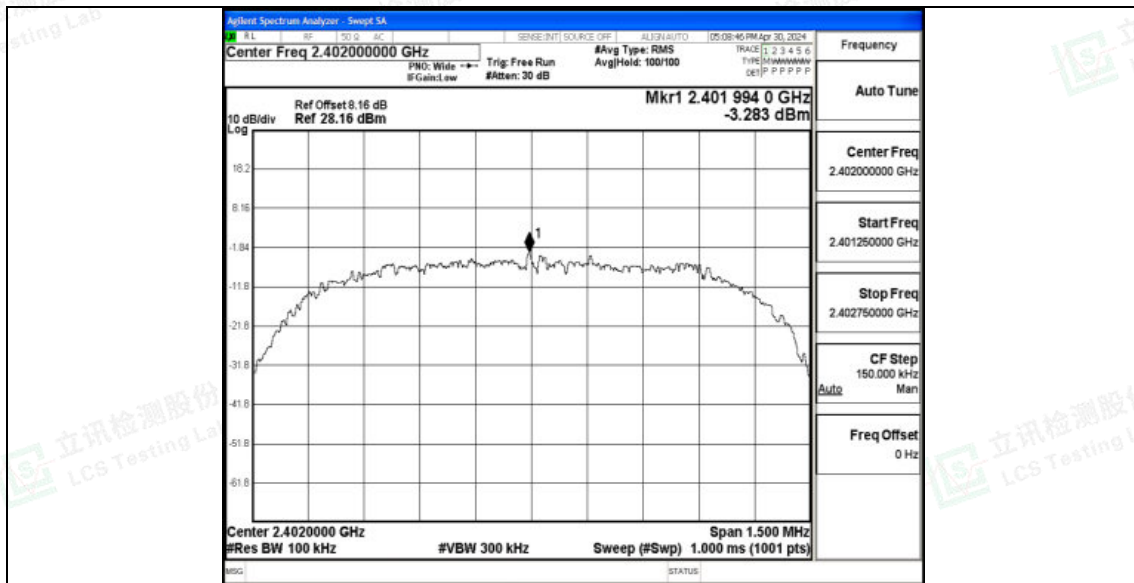


Shenzhen LCS Compliance Testing Laboratory Ltd.

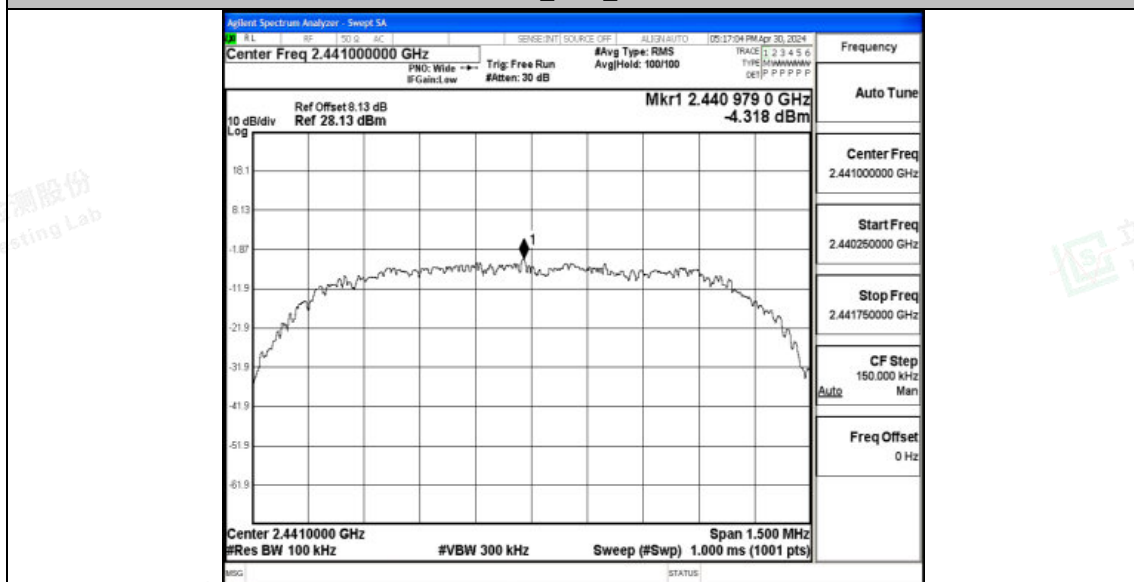
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3DH5_Ant1_2441



3DH5_Ant1_2480



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A.8 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]	1/T Factor[kHz]
DH5	Ant1	2402	2.91	3.75	77.60	1.10	0.34
		2441	2.91	3.75	77.60	1.10	0.34
		2480	2.91	3.75	77.60	1.10	0.34
2DH5	Ant1	2402	2.90	3.75	77.33	1.12	0.34
		2441	2.90	3.75	77.33	1.12	0.34
		2480	2.90	3.75	77.33	1.12	0.34
3DH5	Ant1	2402	2.90	3.75	77.33	1.12	0.34
		2441	2.90	3.75	77.33	1.12	0.34
		2480	2.89	3.75	77.07	1.13	0.35



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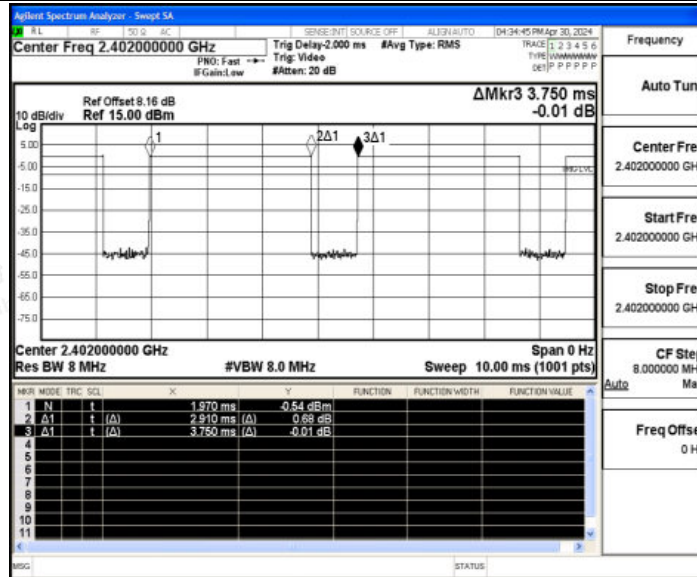
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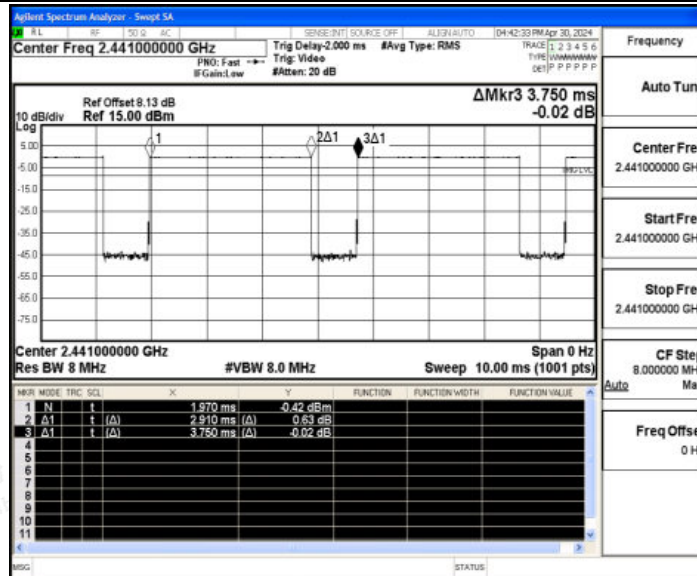


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

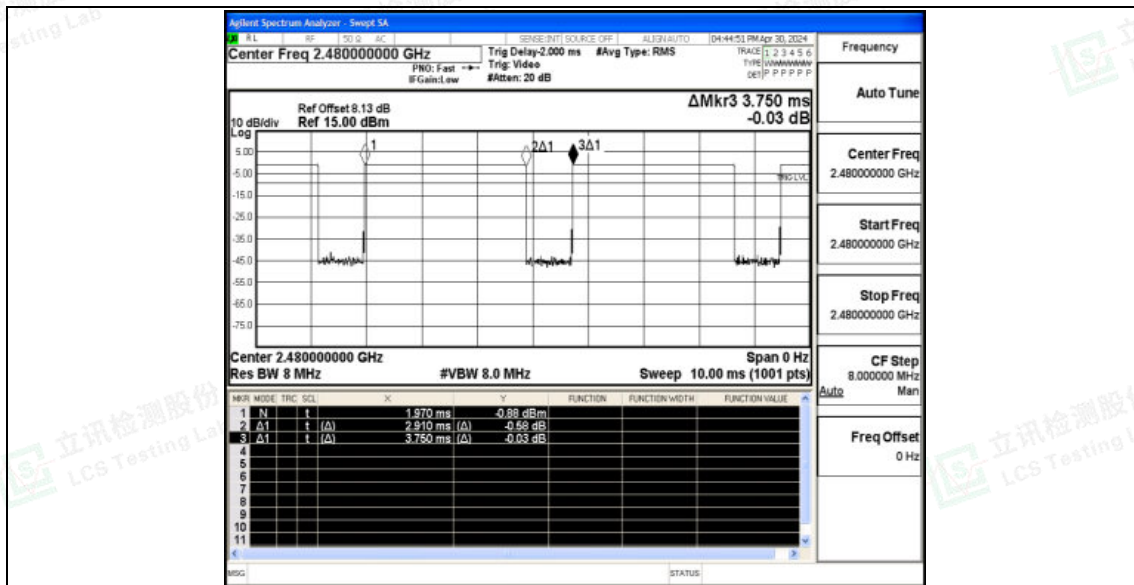


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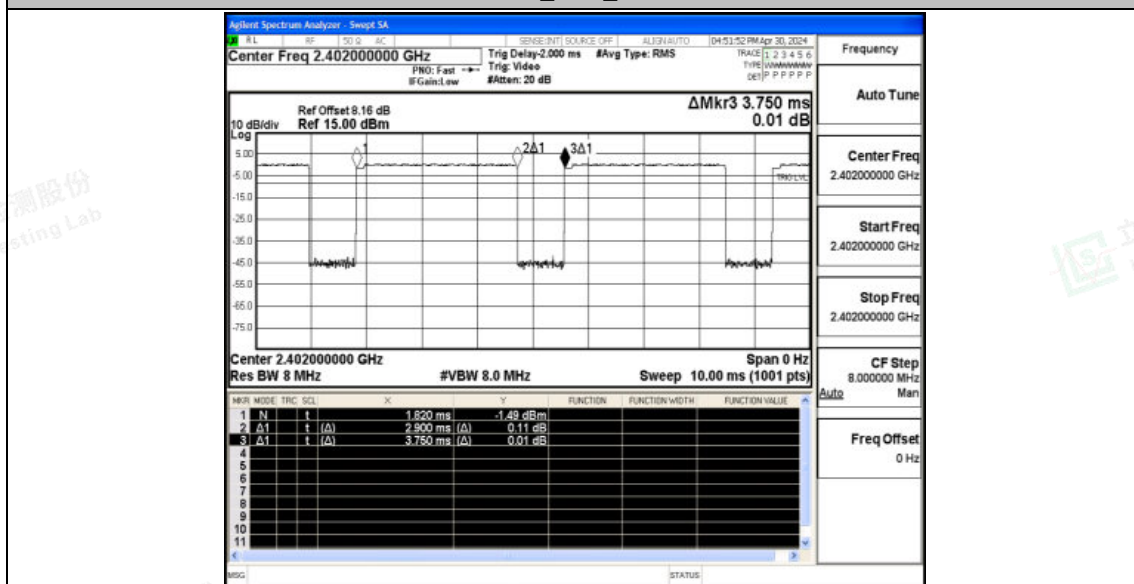
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2DH5_Ant1_2402



2DH5_Ant1_2441

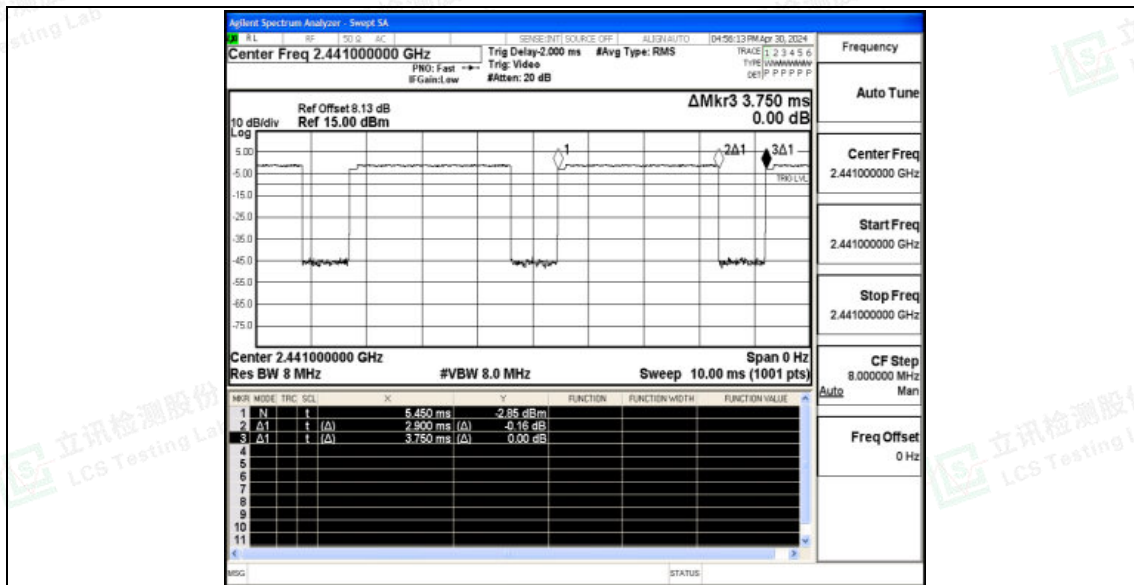


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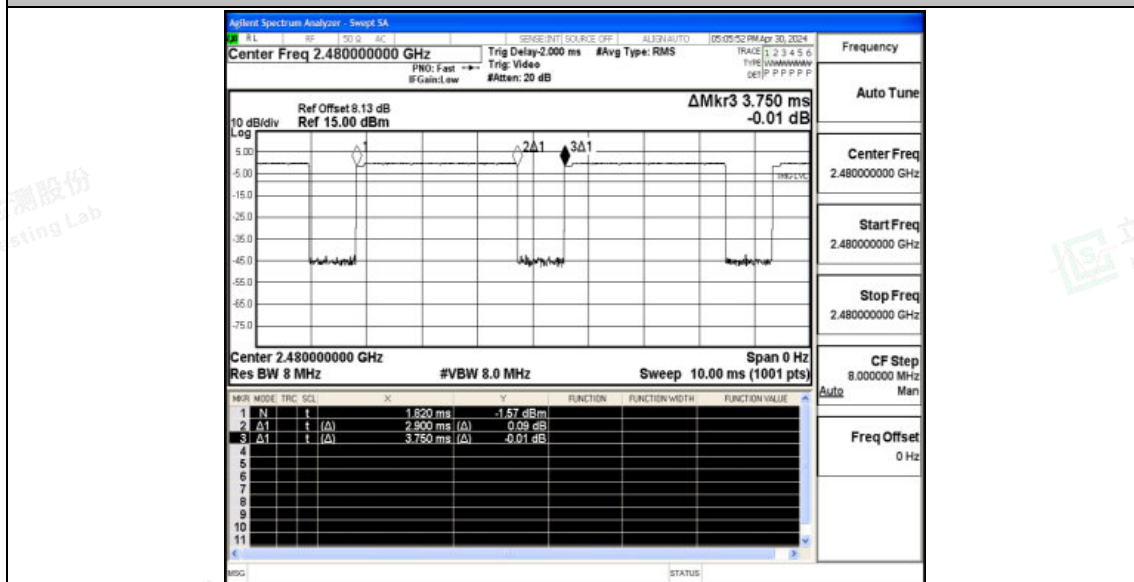
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2DH5_Ant1_2480



3DH5_Ant1_2402

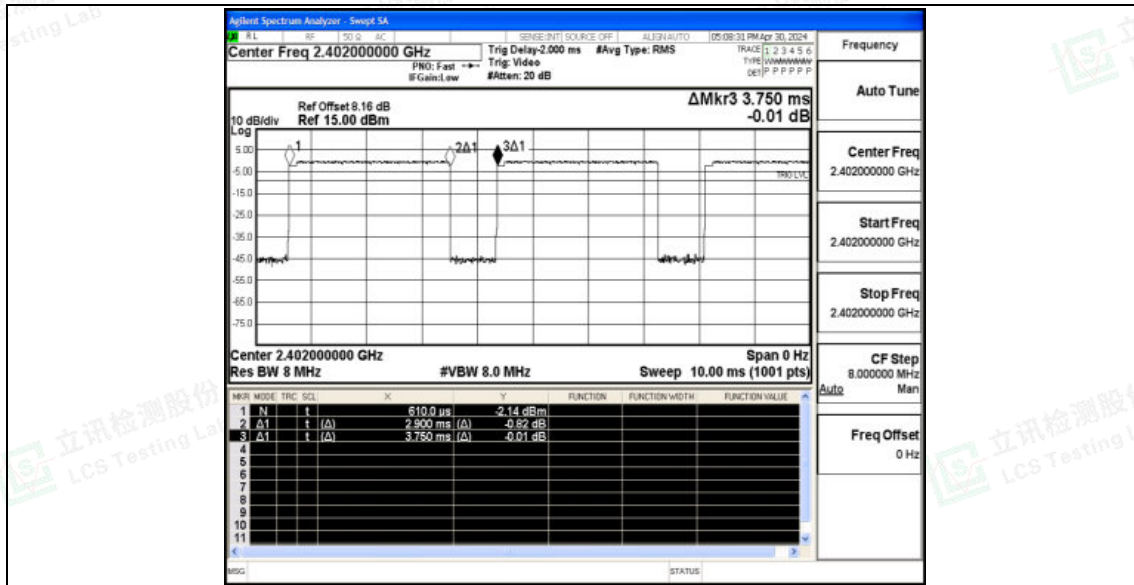


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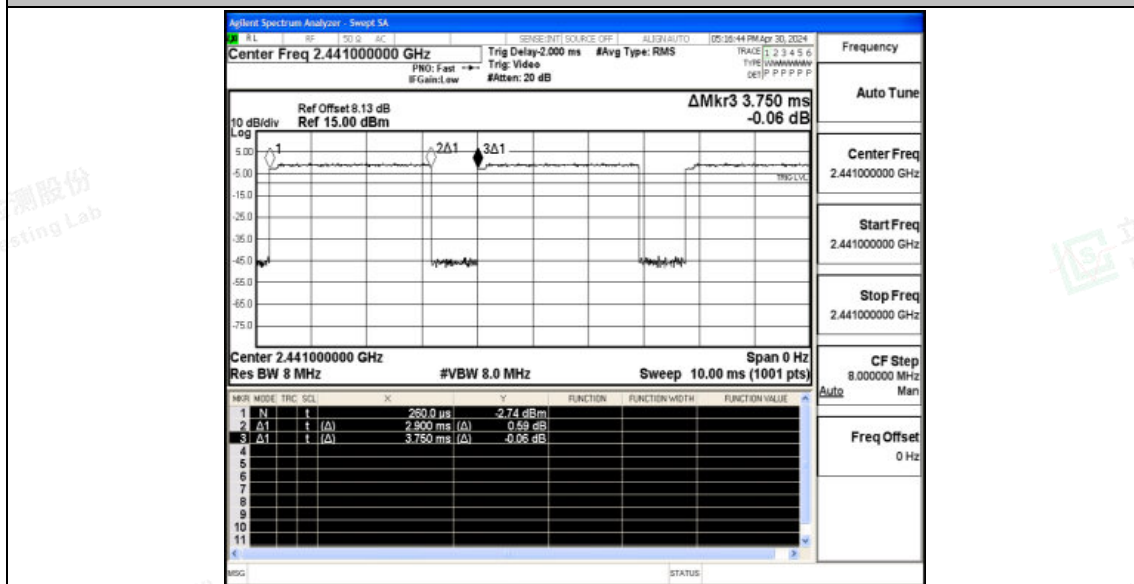
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3DH5_Ant1_2441



3DH5_Ant1_2480

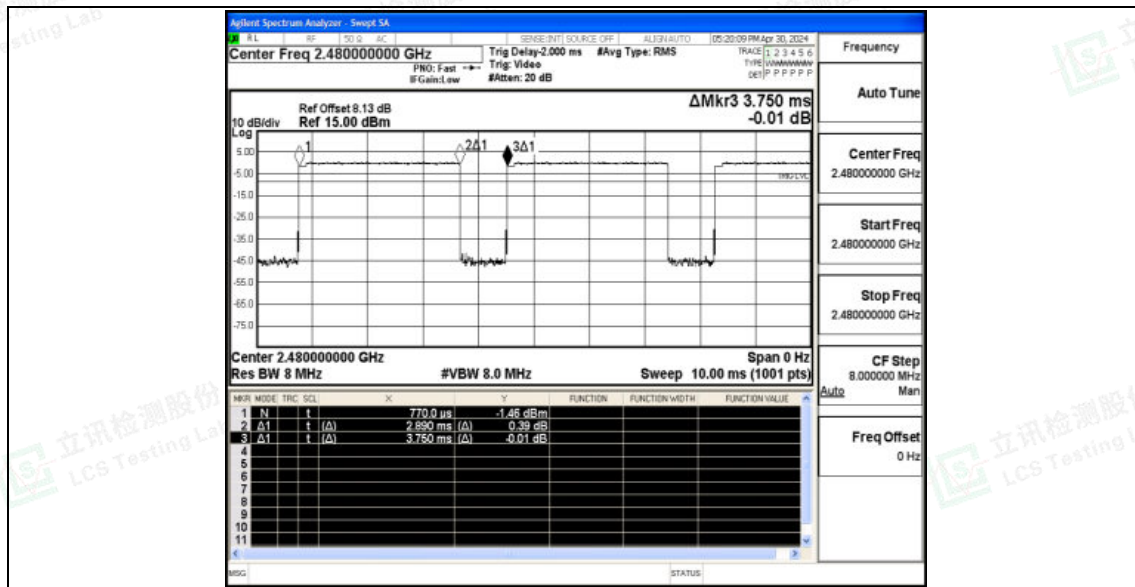


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A.9 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.9	≤-41.20	46.30	≤54	PASS
				AV	2373.185	-47.8	≤-41.20	47.40	≤54	PASS
				AV	2390.000	-48.72	≤-41.20	46.48	≤54	PASS
				Peak	2310.000	-41.57	≤-21.20	53.63	≤74	PASS
				Peak	2385.680	-38.28	≤-21.20	56.92	≤74	PASS
				Peak	2390.000	-40.77	≤-21.20	54.43	≤74	PASS
		High	2480	AV	2483.500	-48.66	≤-41.20	46.54	≤54	PASS
				AV	2485.280	-47.48	≤-41.20	47.72	≤54	PASS
				AV	2500.000	-48.76	≤-41.20	46.44	≤54	PASS
				Peak	2483.500	-39.85	≤-21.20	55.35	≤74	PASS
				Peak	2491.440	-38.81	≤-21.20	56.39	≤74	PASS
				Peak	2500.000	-42.55	≤-21.20	52.65	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-43.89	≤-21.20	51.31	≤74	PASS
				Peak	2371.085	-38.8	≤-21.20	56.40	≤74	PASS
				Peak	2390.000	-42.77	≤-21.20	52.43	≤74	PASS
		High	Hop_248 0	Peak	2483.500	-41	≤-21.20	54.20	≤74	PASS
				Peak	2493.840	-38.49	≤-21.20	56.71	≤74	PASS
				Peak	2500.000	-42.16	≤-21.20	53.04	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.71	≤-41.20	46.49	≤54	PASS
				AV	2387.780	-47.91	≤-41.20	47.29	≤54	PASS
				AV	2390.000	-48.69	≤-41.20	46.51	≤54	PASS
				Peak	2310.000	-42.02	≤-21.20	53.18	≤74	PASS
				Peak	2354.810	-39.3	≤-21.20	55.90	≤74	PASS
				Peak	2390.000	-40.94	≤-21.20	54.26	≤74	PASS
		High	2480	AV	2483.500	-47.68	≤-41.20	47.52	≤54	PASS
				AV	2483.600	-47.51	≤-41.20	47.69	≤54	PASS
				AV	2500.000	-48.85	≤-41.20	46.35	≤54	PASS
				Peak	2483.500	-41.45	≤-21.20	53.75	≤74	PASS
				Peak	2497.600	-39.31	≤-21.20	55.89	≤74	PASS
				Peak	2500.000	-41.03	≤-21.20	54.17	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-41.38	≤-21.20	53.82	≤74	PASS
				Peak	2377.490	-39.25	≤-21.20	55.95	≤74	PASS
				Peak	2390.000	-42.06	≤-21.20	53.14	≤74	PASS



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3DH5	Ant1	High	Hop_2480	Peak	2483.500	-42.2	≤-21.20	53.00	≤74	PASS
				Peak	2497.920	-39.54	≤-21.20	55.66	≤74	PASS
				Peak	2500.000	-42.1	≤-21.20	53.10	≤74	PASS
		Low	2402	AV	2310.000	-49.29	≤-41.20	45.91	≤54	PASS
				AV	2373.500	-47.76	≤-41.20	47.44	≤54	PASS
				AV	2390.000	-48.64	≤-41.20	46.56	≤54	PASS
				Peak	2310.000	-42.66	≤-21.20	52.54	≤74	PASS
				Peak	2347.460	-38.1	≤-21.20	57.10	≤74	PASS
				Peak	2390.000	-41.53	≤-21.20	53.67	≤74	PASS
		High	2480	AV	2483.500	-47.82	≤-41.20	47.38	≤54	PASS
				AV	2484.880	-47.76	≤-41.20	47.44	≤54	PASS
				AV	2500.000	-48.26	≤-41.20	46.94	≤54	PASS
				Peak	2483.500	-39.62	≤-21.20	55.58	≤74	PASS
				Peak	2483.600	-39.15	≤-21.20	56.05	≤74	PASS
				Peak	2500.000	-42.94	≤-21.20	52.26	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-43.56	≤-21.20	51.64	≤74	PASS
				Peak	2321.315	-39.25	≤-21.20	55.95	≤74	PASS
				Peak	2390.000	-42.29	≤-21.20	52.91	≤74	PASS
		High	Hop_2480	Peak	2483.500	-42.12	≤-21.20	53.08	≤74	PASS
				Peak	2496.640	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2500.000	-42.1	≤-21.20	53.10	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph. The Correction Factor 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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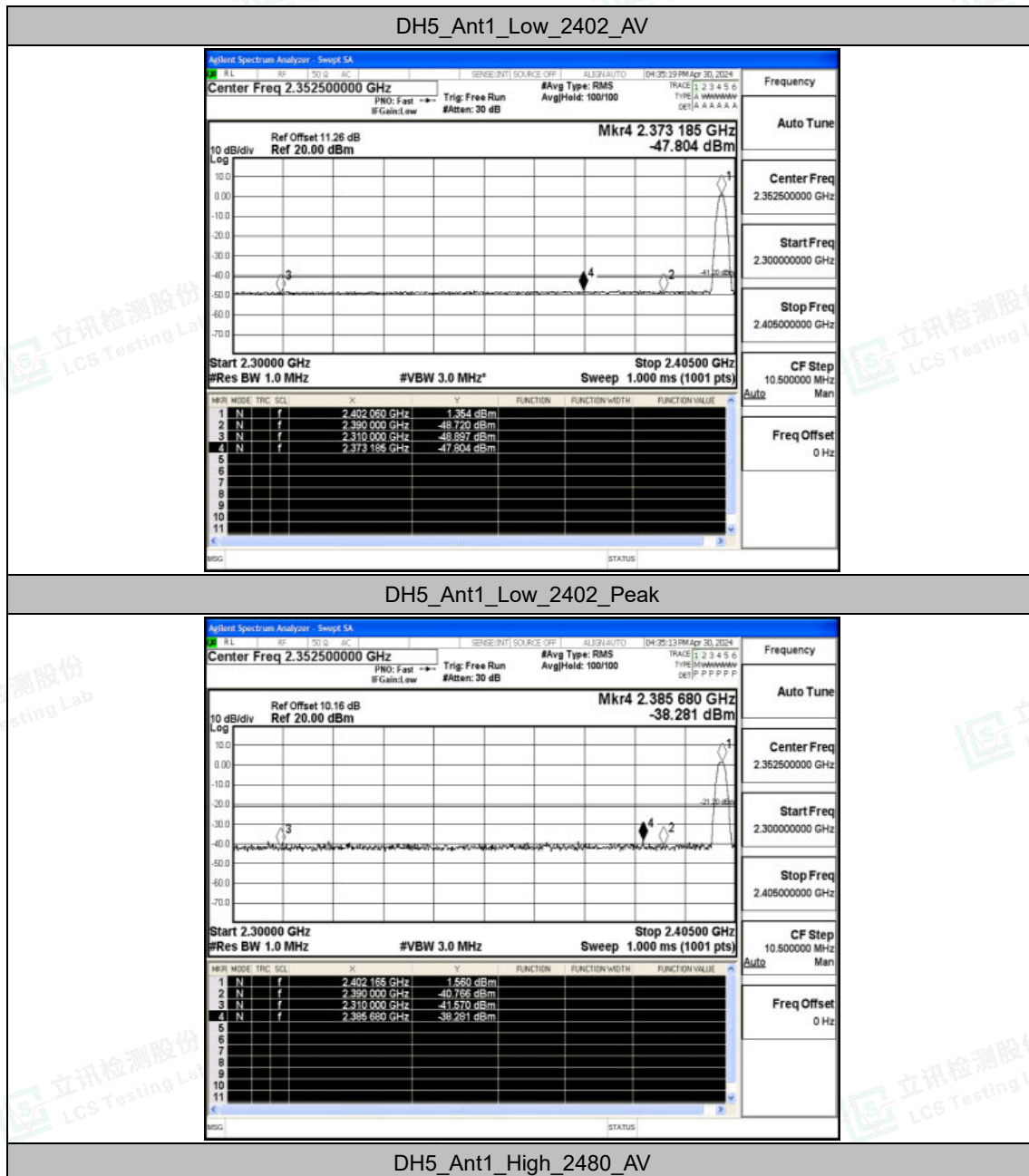
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Test Graphs

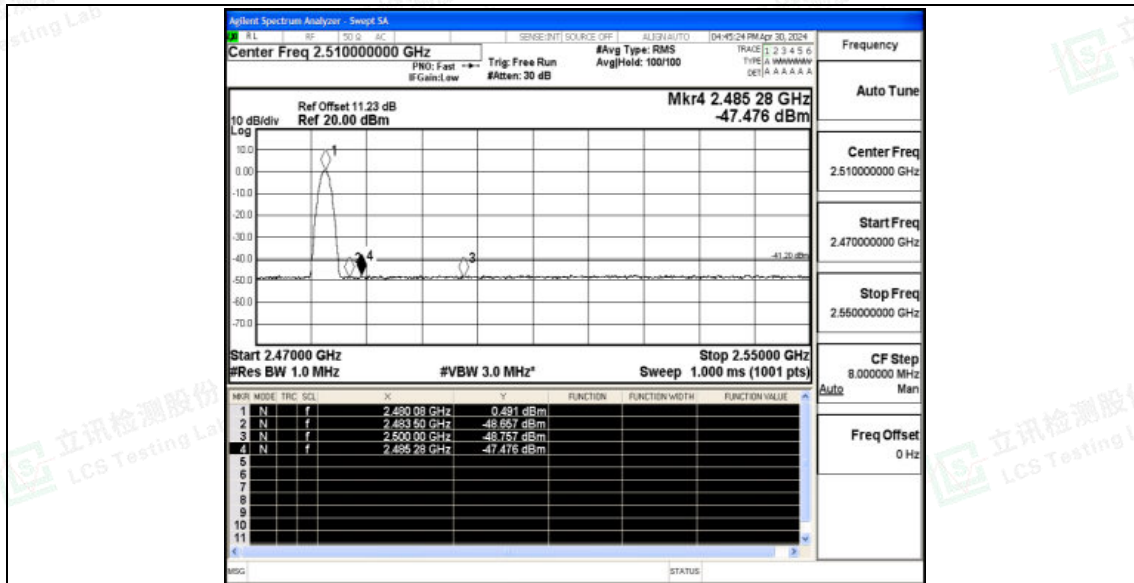


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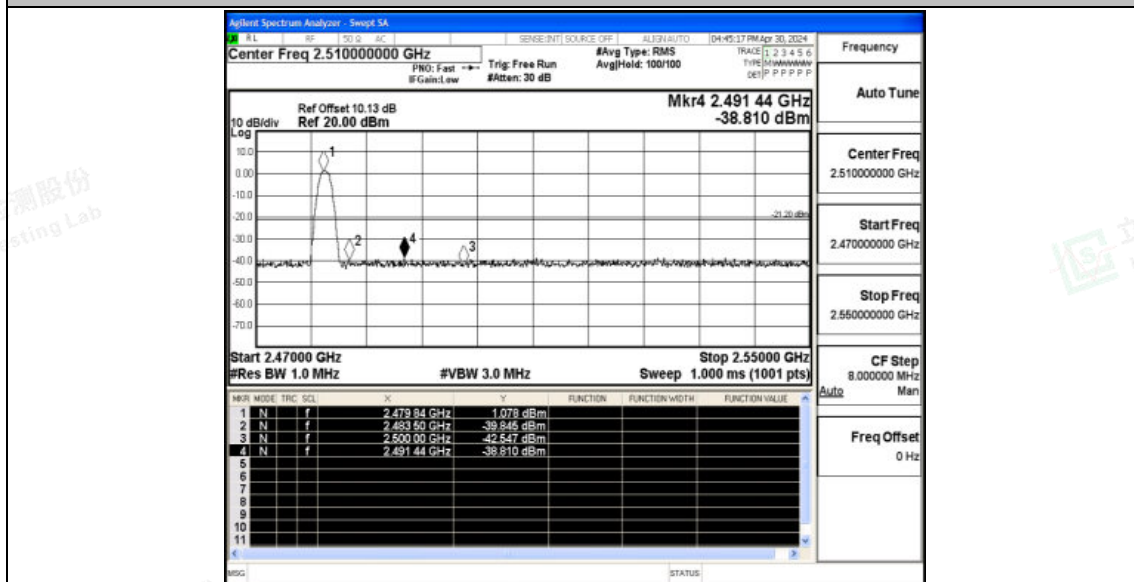
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

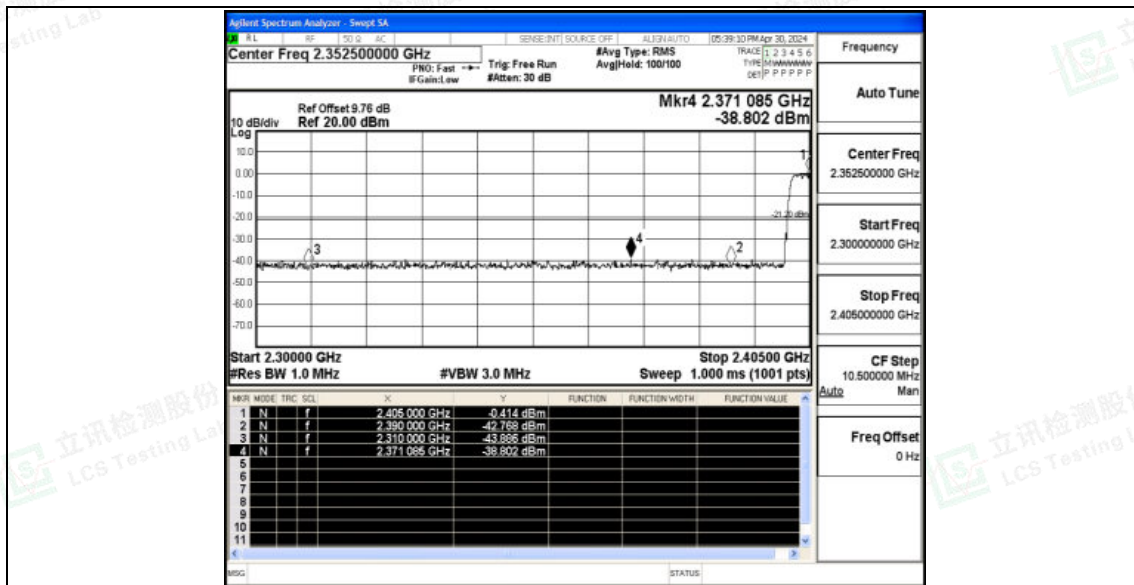


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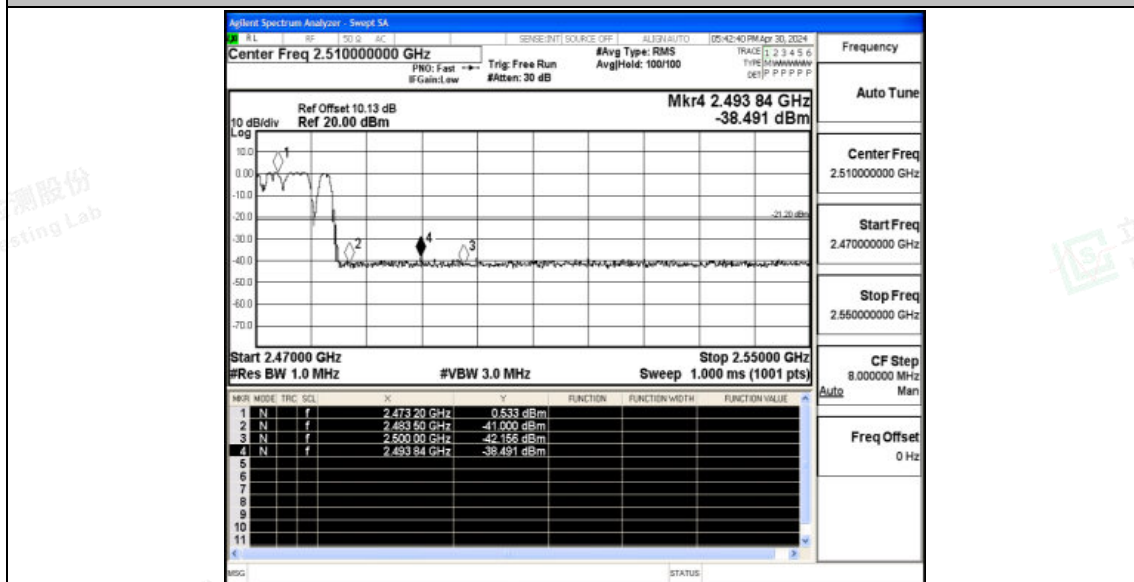
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

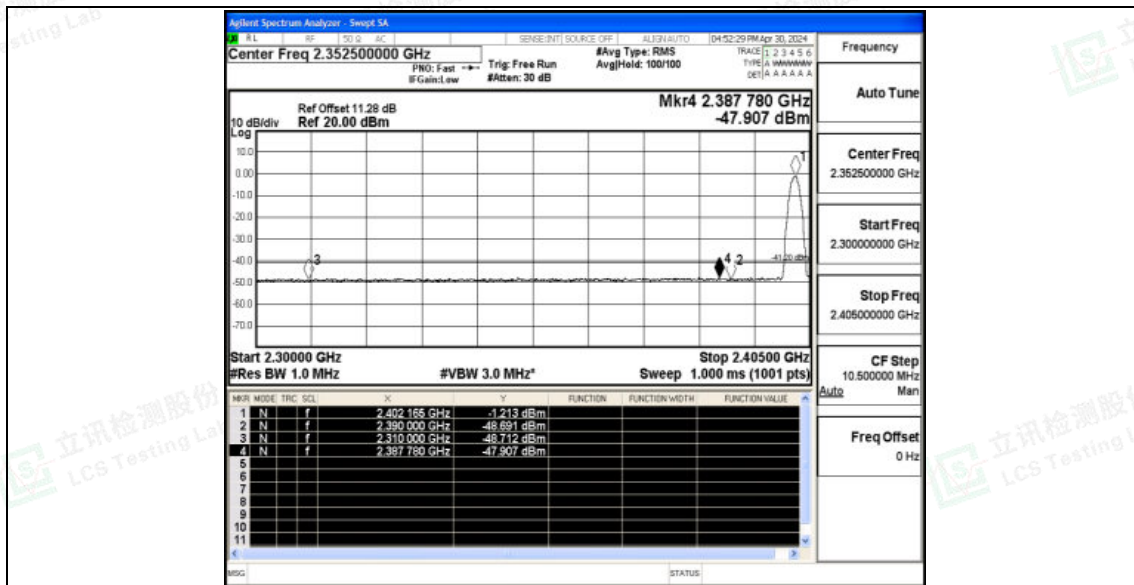


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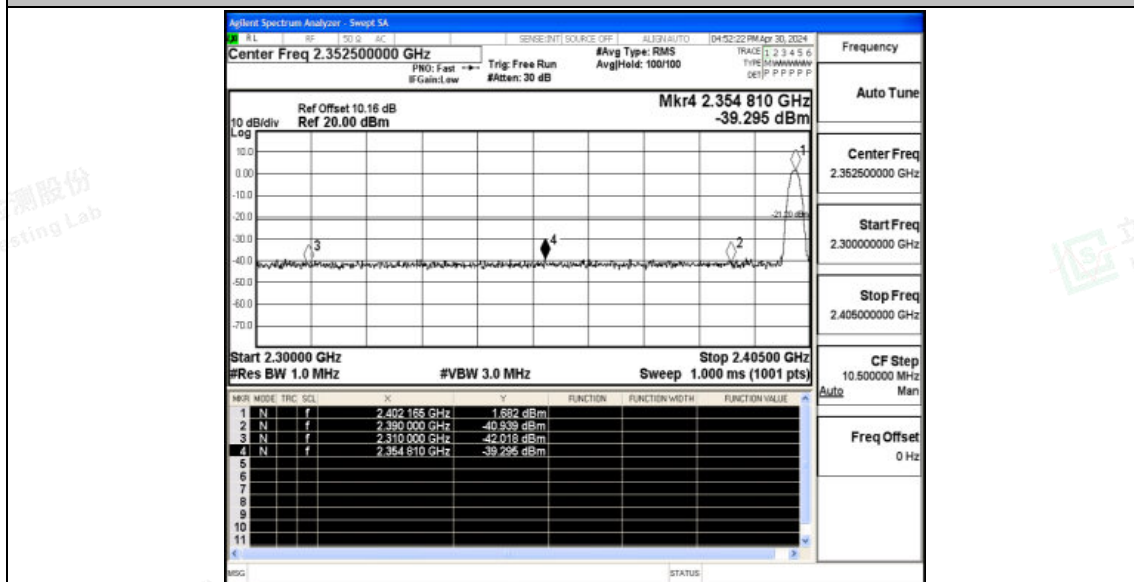
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

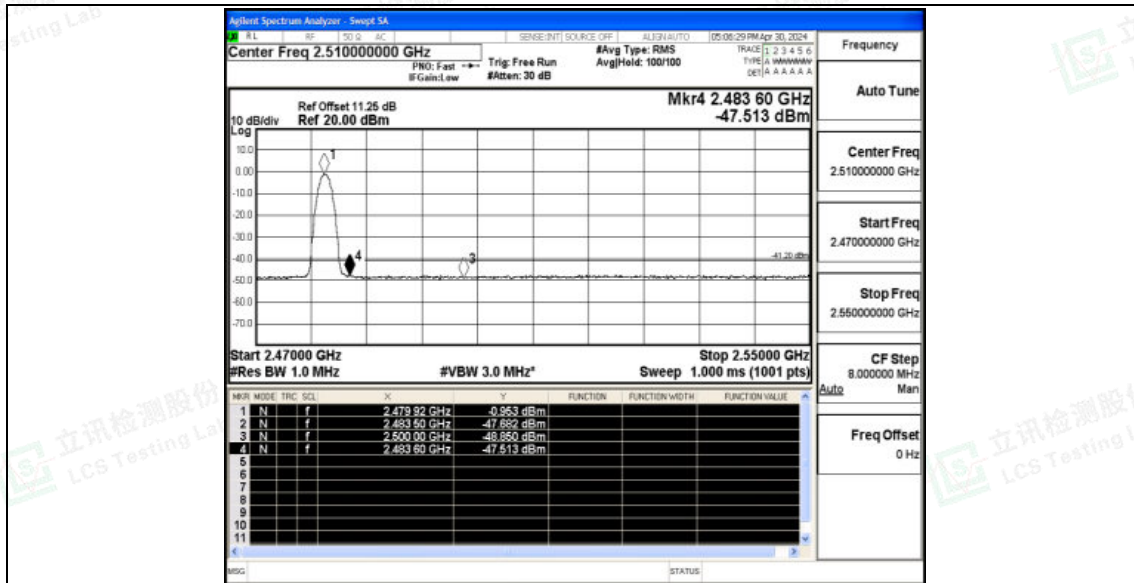


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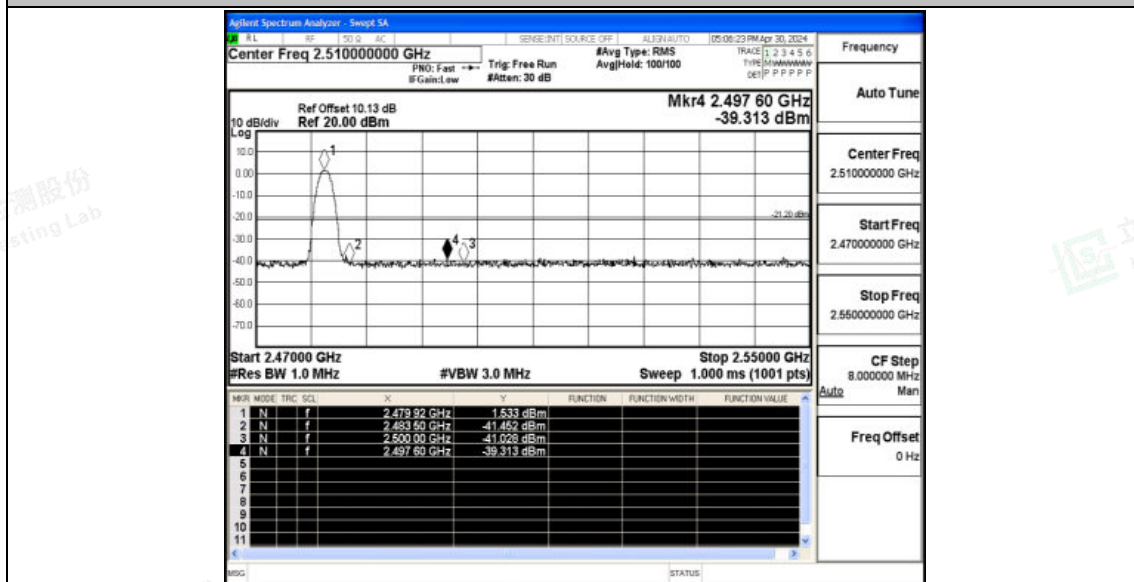
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

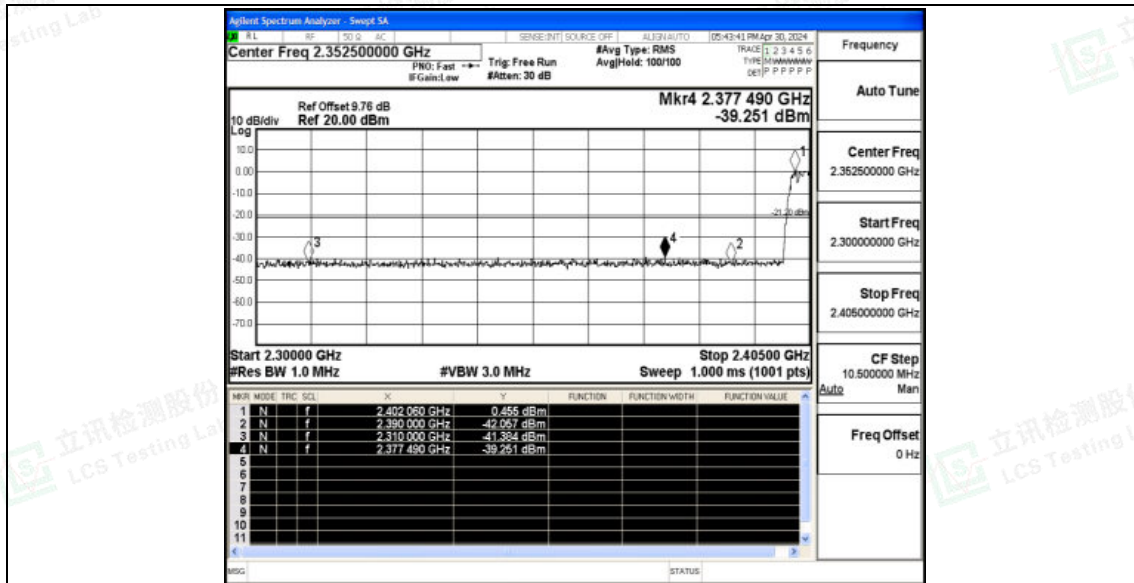


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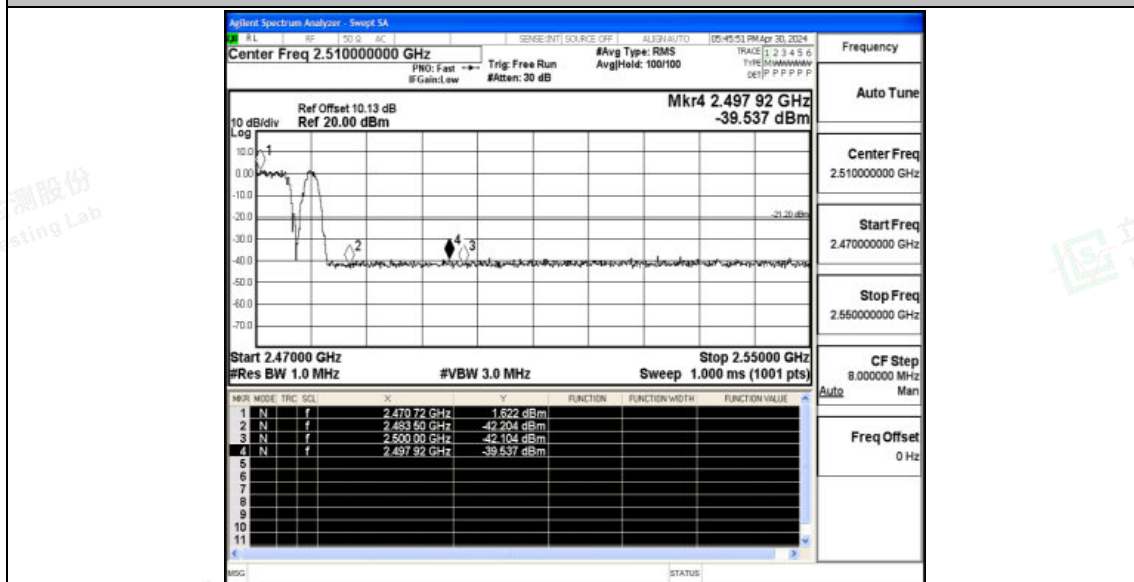
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

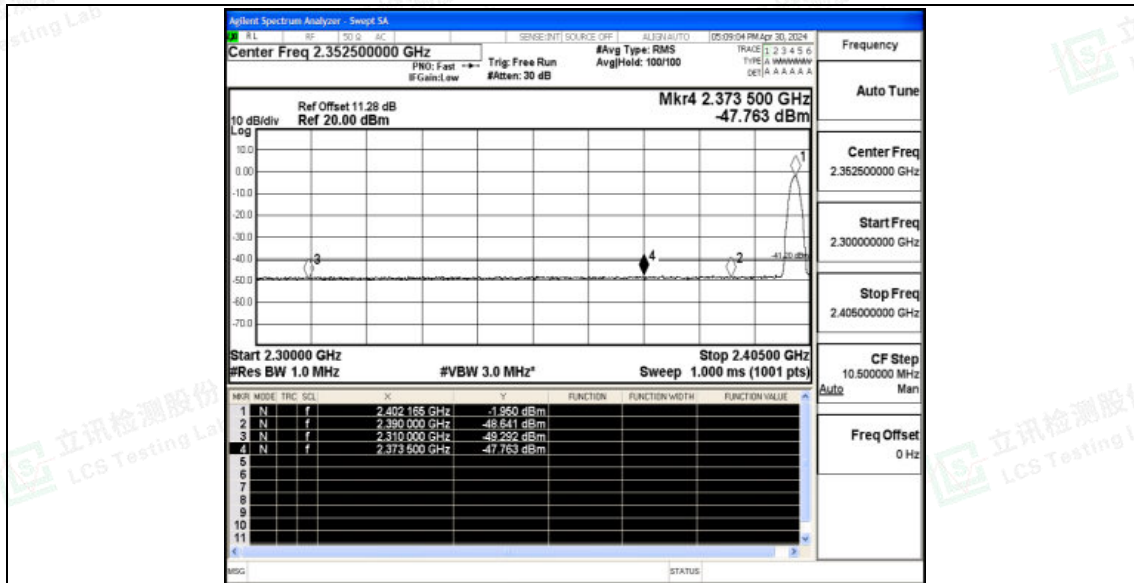


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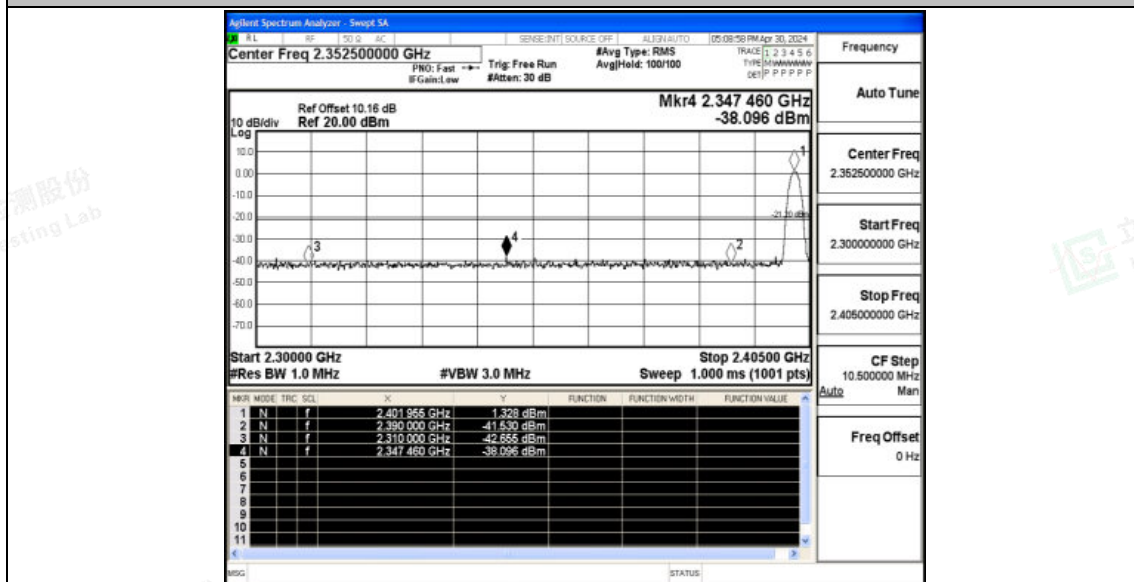
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

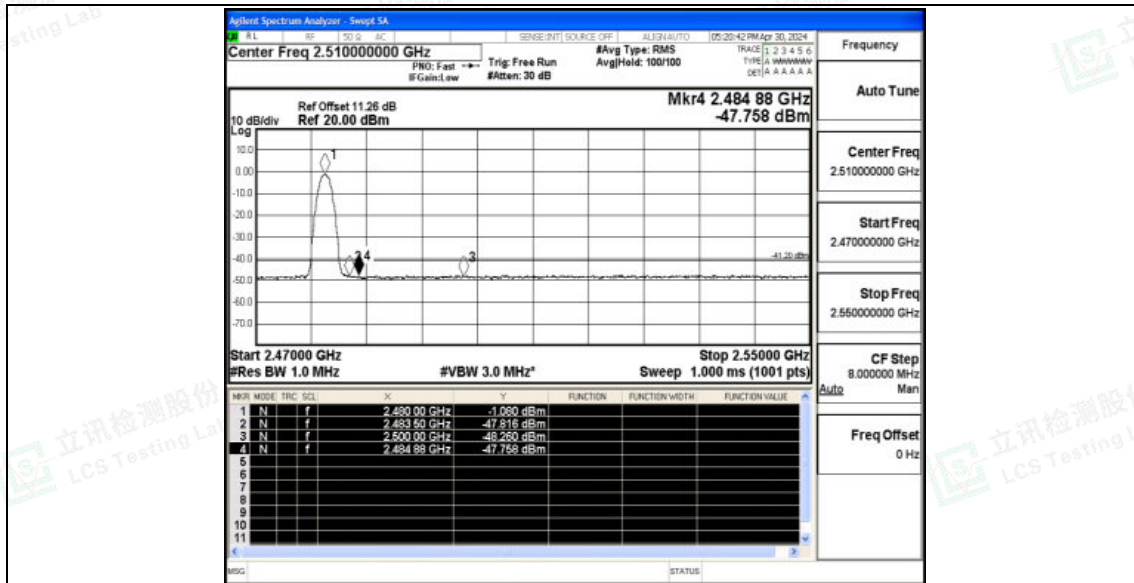


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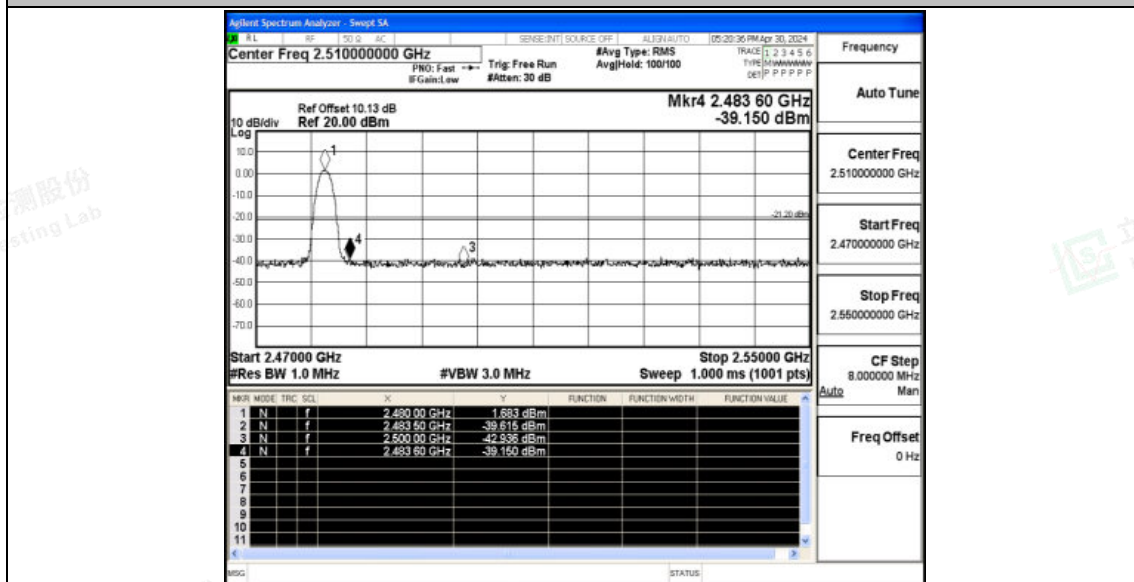
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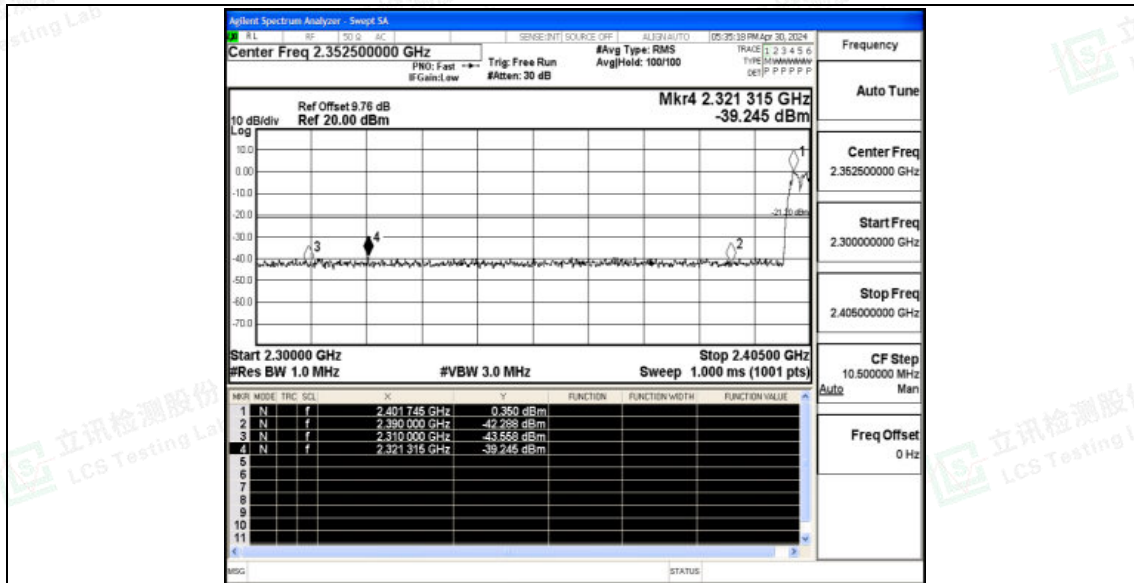


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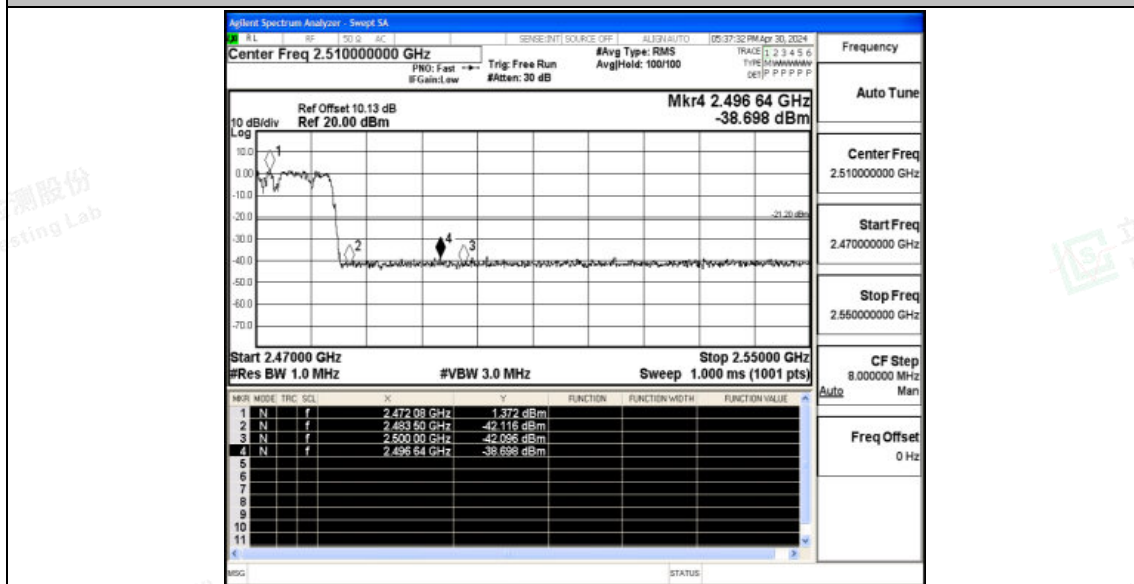
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