



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: NurseTab with BT controller

Test Model: NT8A11BTGR

Environmental Conditions

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



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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	1.035	2401.460	2402.495	---	---
		2441	1.035	2440.460	2441.495	---	---
		2480	0.963	2479.526	2480.489	---	---
2DH5	Ant1	2402	1.326	2401.328	2402.654	---	---
		2441	1.293	2440.355	2441.648	---	---
		2480	1.329	2479.325	2480.654	---	---
3DH5	Ant1	2402	1.320	2401.334	2402.654	---	---
		2441	1.290	2440.346	2441.636	---	---
		2480	1.317	2479.337	2480.654	---	---



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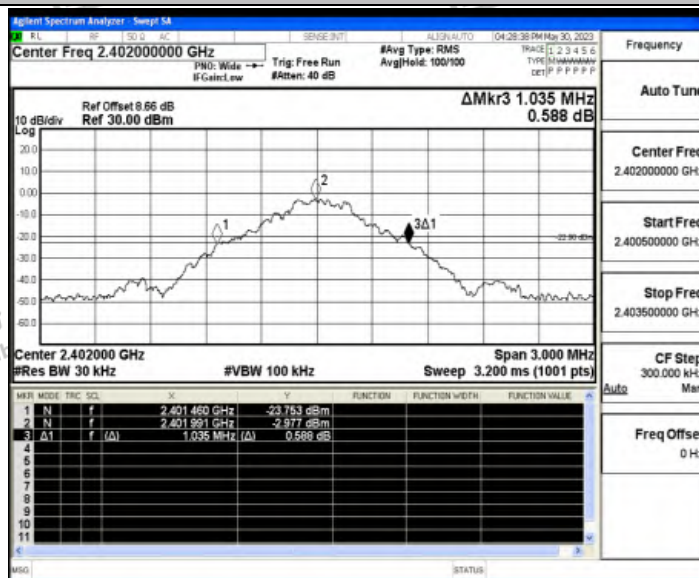
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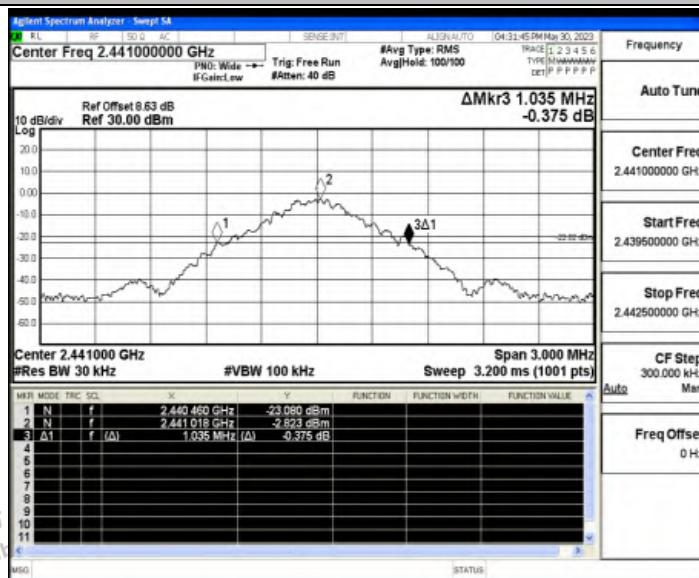


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

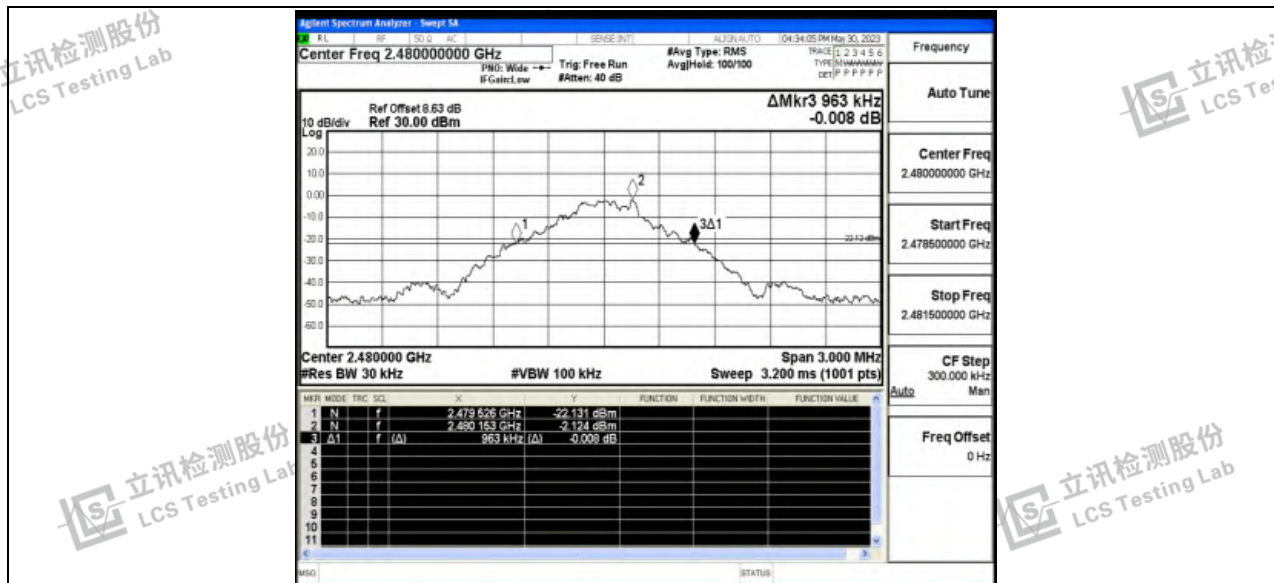


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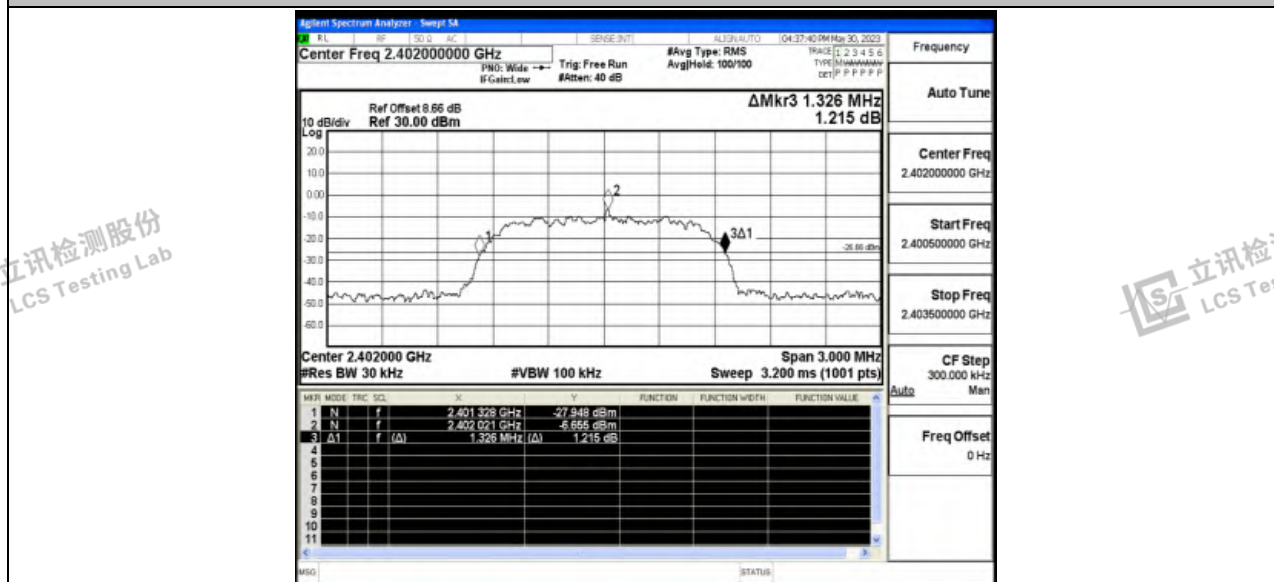
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2DH5_Ant1_2402



2DH5_Ant1_2441

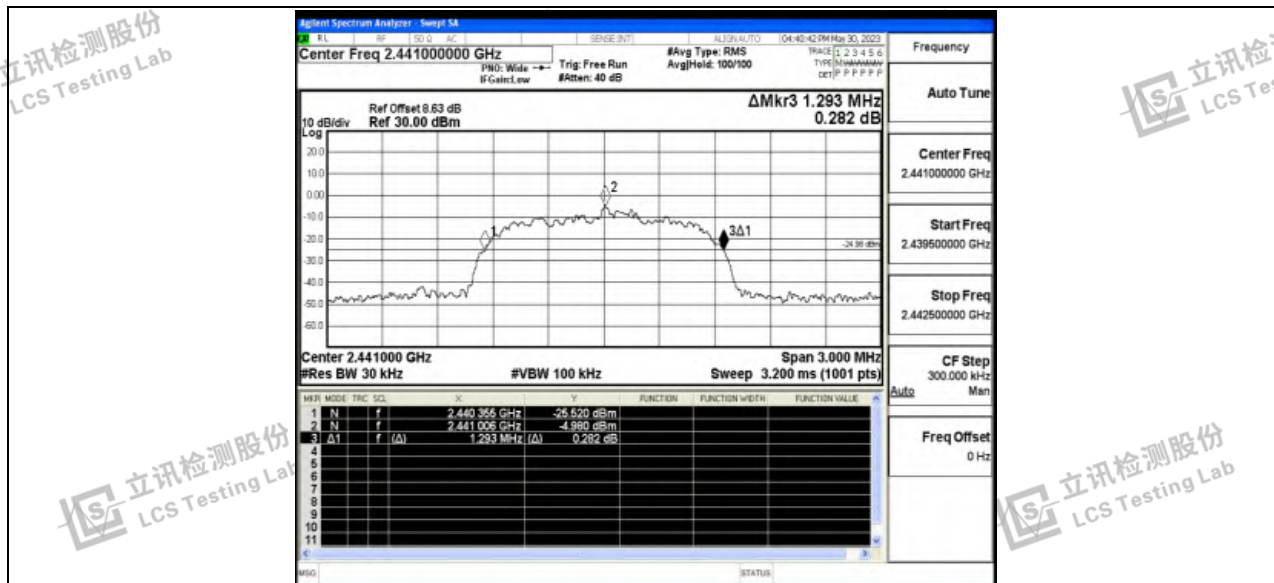


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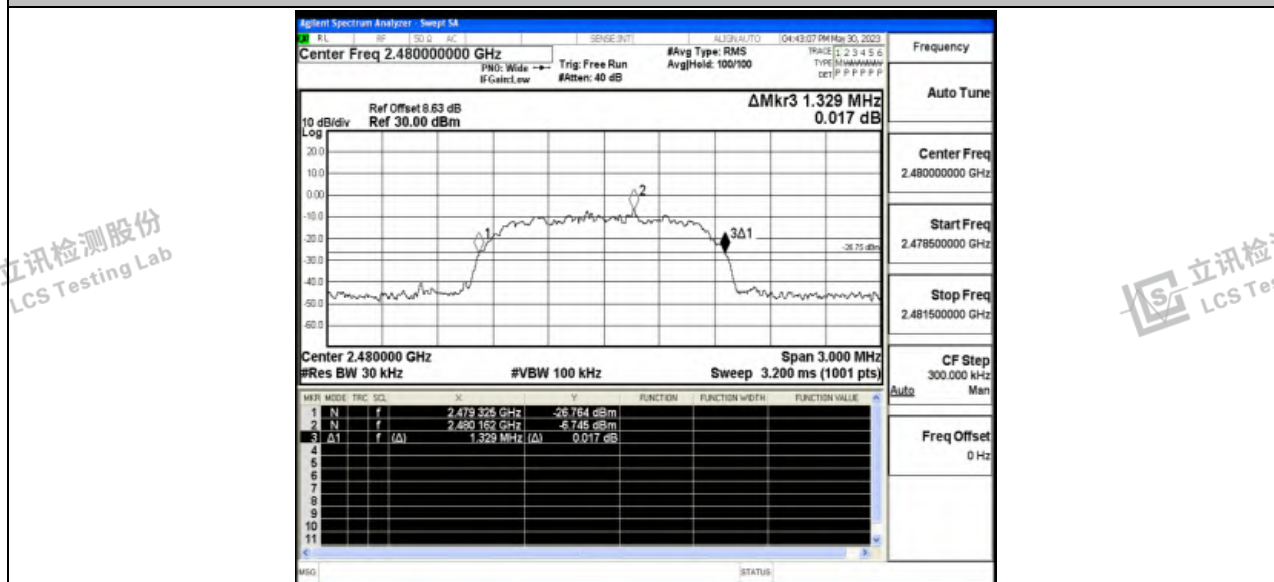
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2DH5_Ant1_2480



3DH5_Ant1_2402

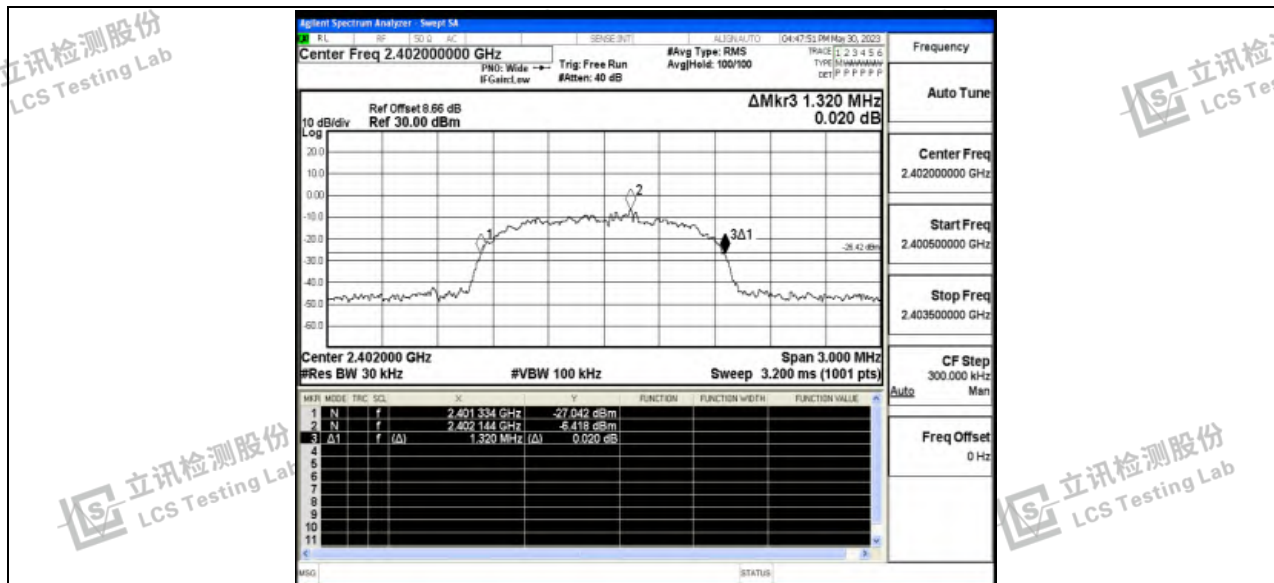


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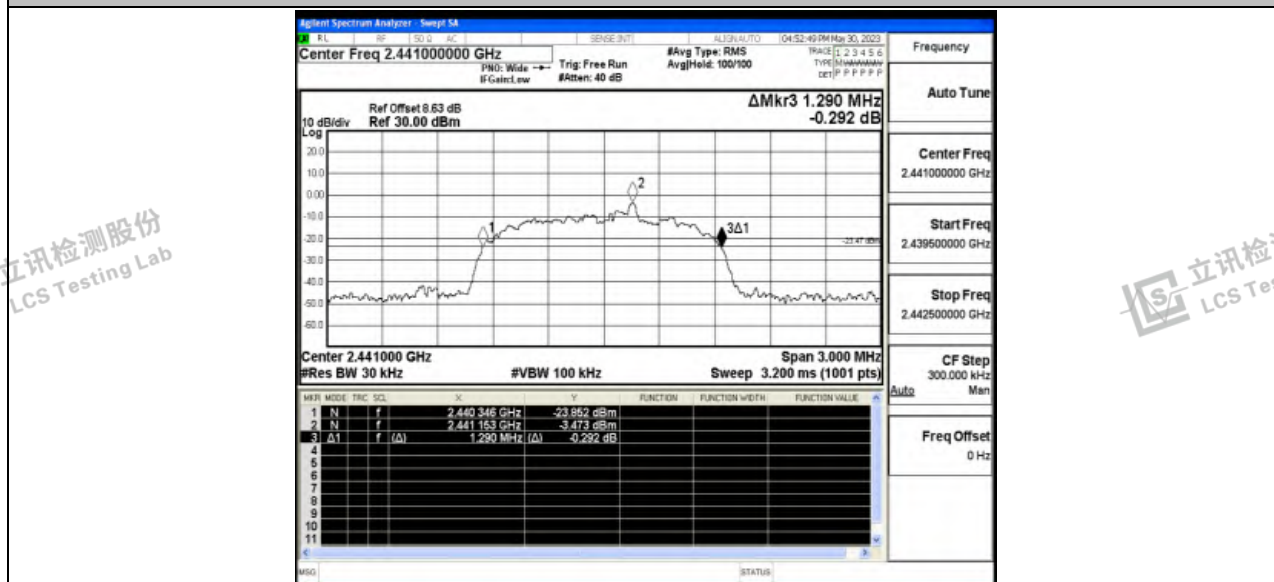
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3DH5_Ant1_2441



3DH5_Ant1_2480

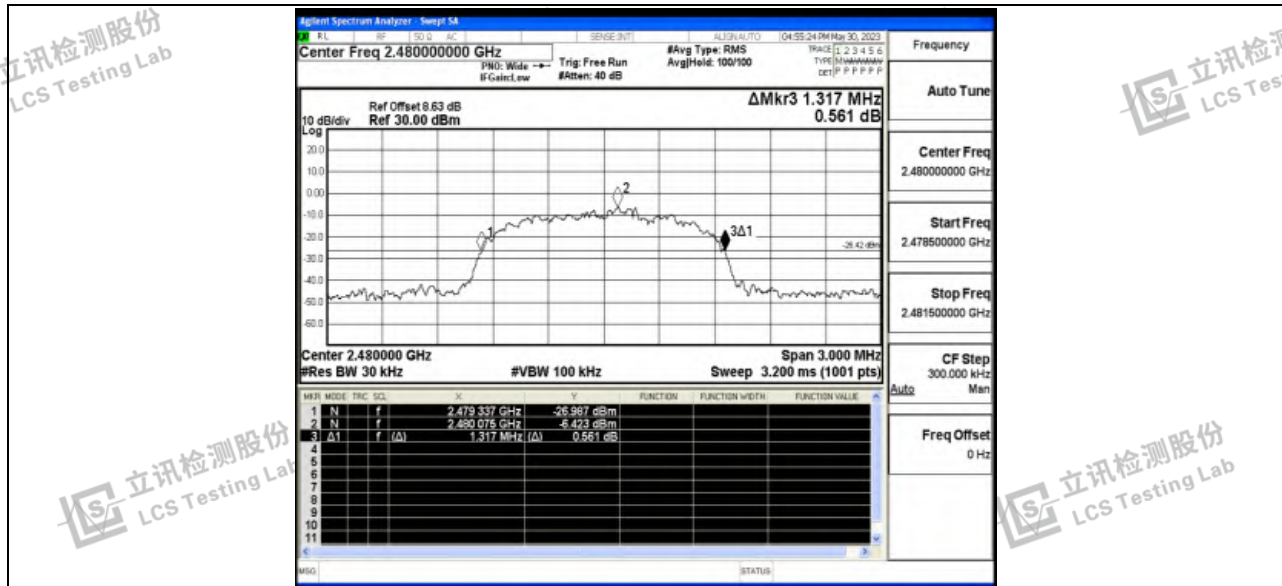


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A.2 Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.34	≤20.97	PASS
		2441	0.45	≤20.97	PASS
		2480	0.65	≤20.97	PASS
2DH5	Ant1	2402	-0.22	≤20.97	PASS
		2441	-0.06	≤20.97	PASS
		2480	0.22	≤20.97	PASS
3DH5	Ant1	2402	-0.13	≤20.97	PASS
		2441	0.09	≤20.97	PASS
		2480	0.27	≤20.97	PASS



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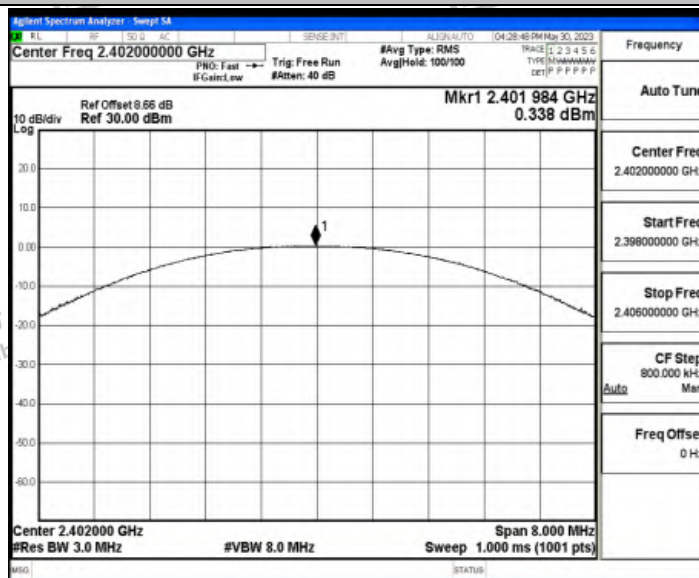
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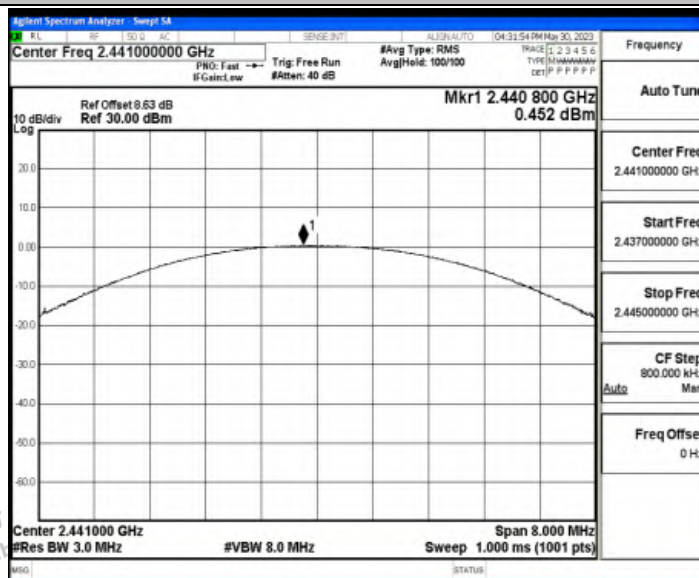


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

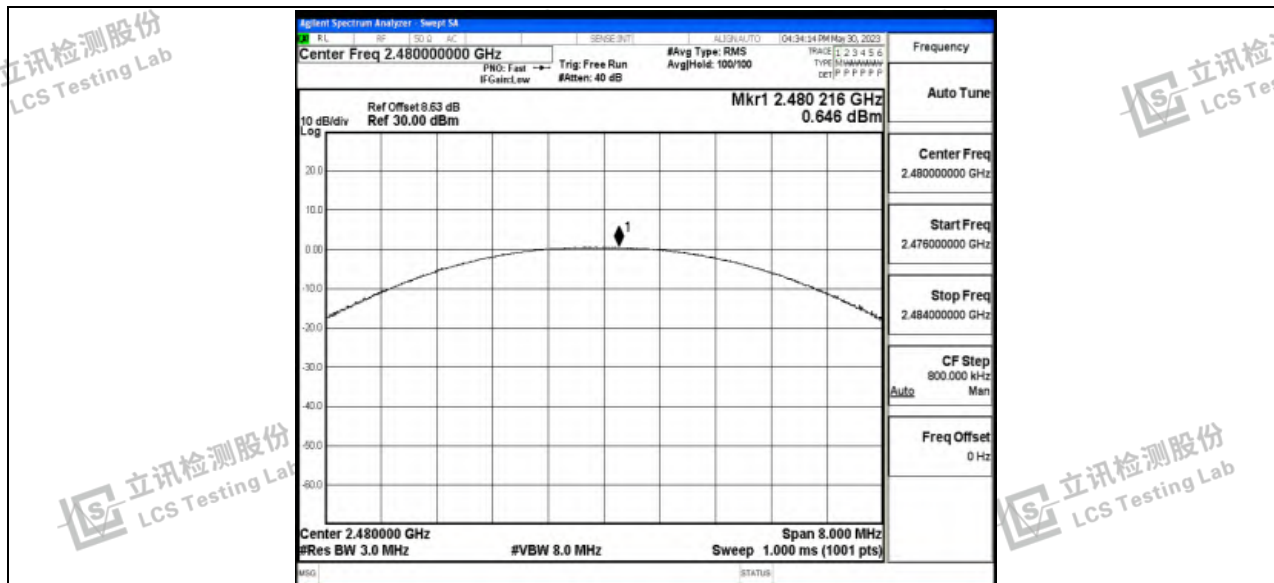


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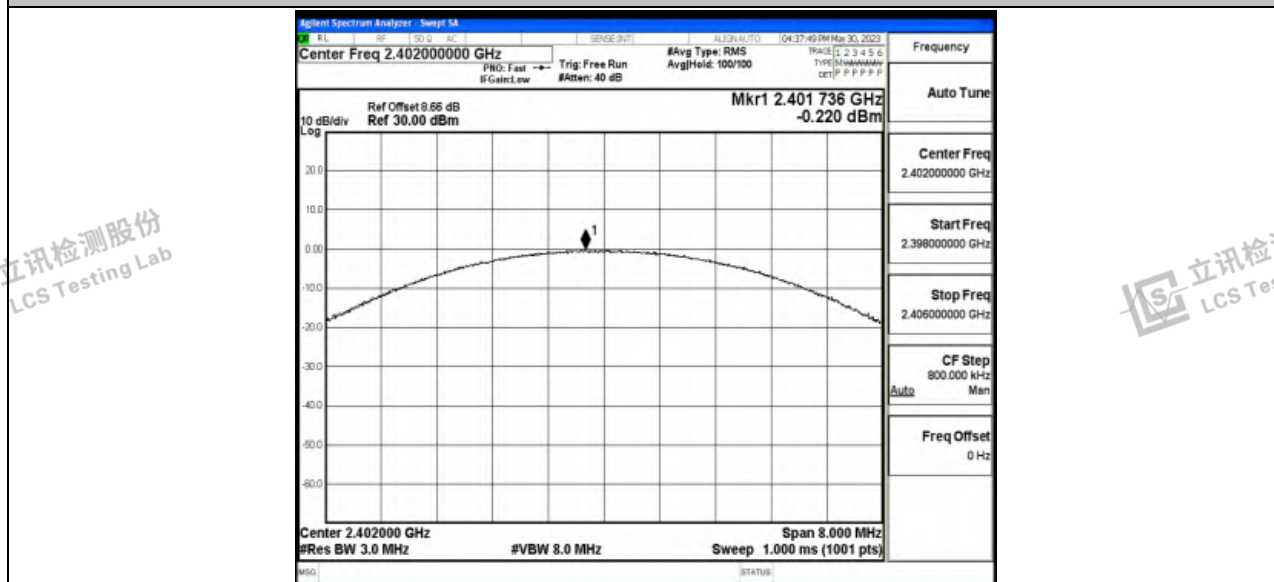
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2DH5_Ant1_2402



2DH5_Ant1_2441

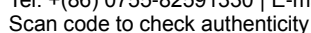
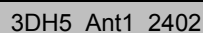
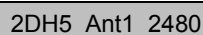


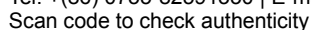
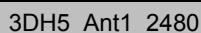
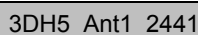
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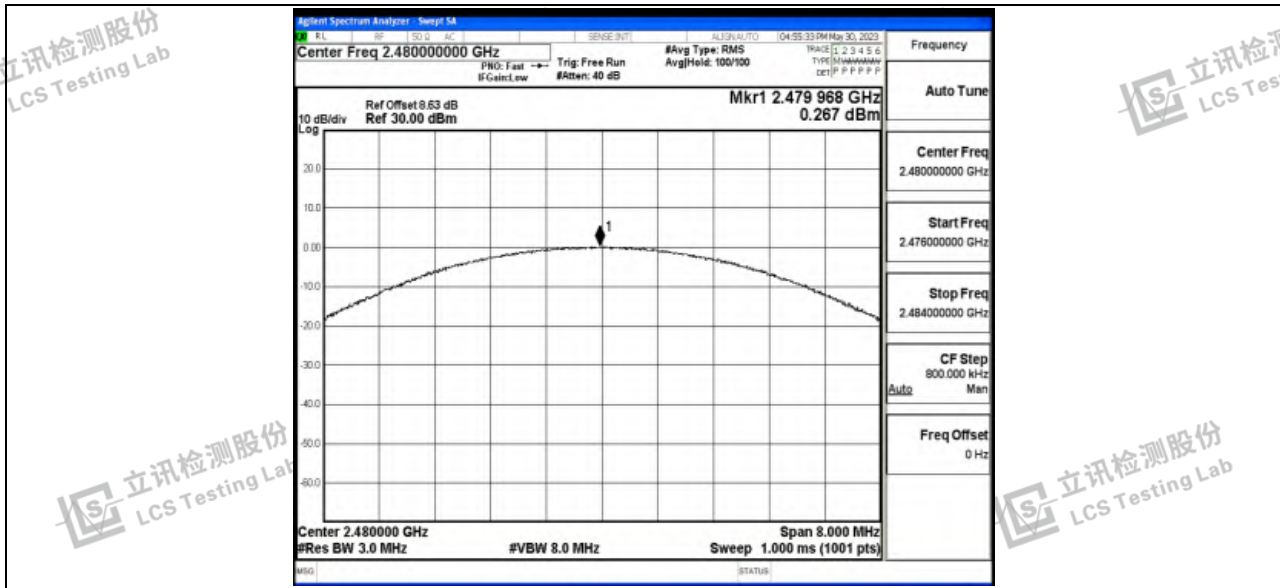
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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.124	≥ 0.690	PASS
2DH5	Ant1	Hop	1	≥ 0.886	PASS
3DH5	Ant1	Hop	1.19	≥ 0.880	PASS



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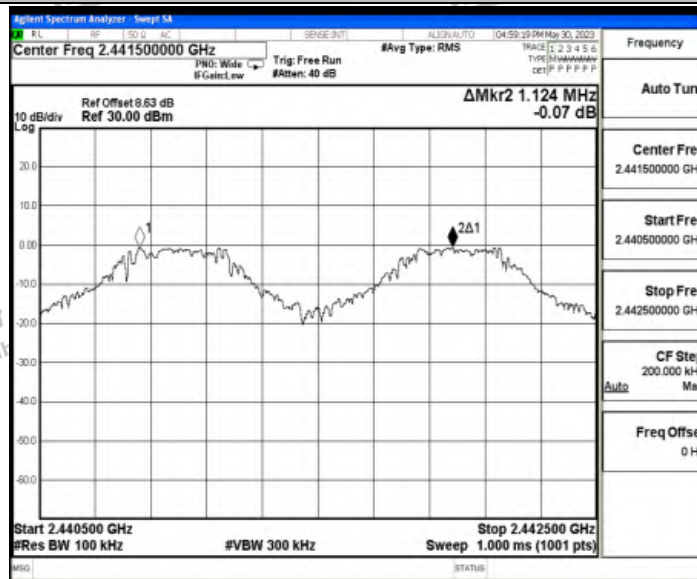
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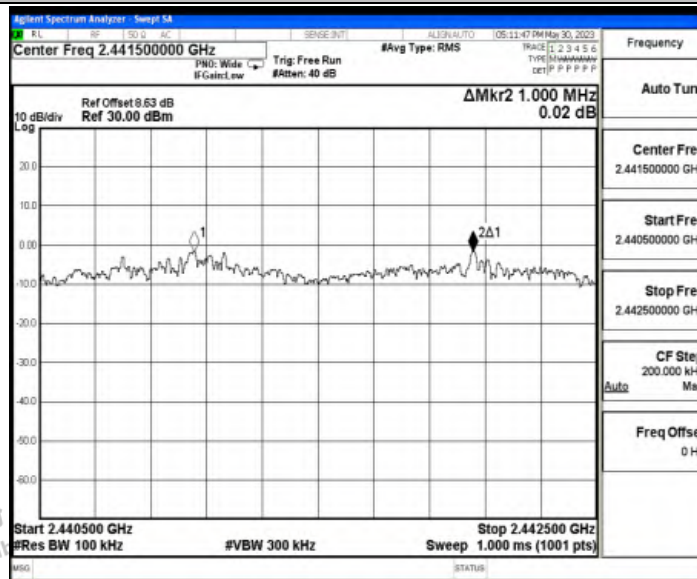


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

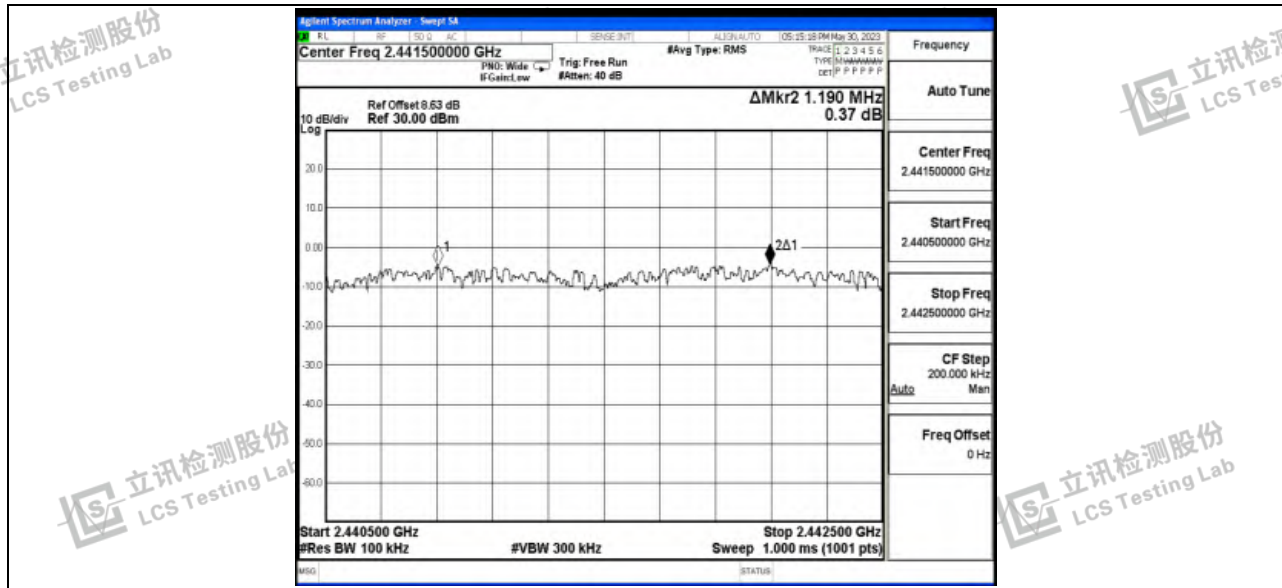


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A.4 Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.887	106.67	0.308	≤0.4	PASS



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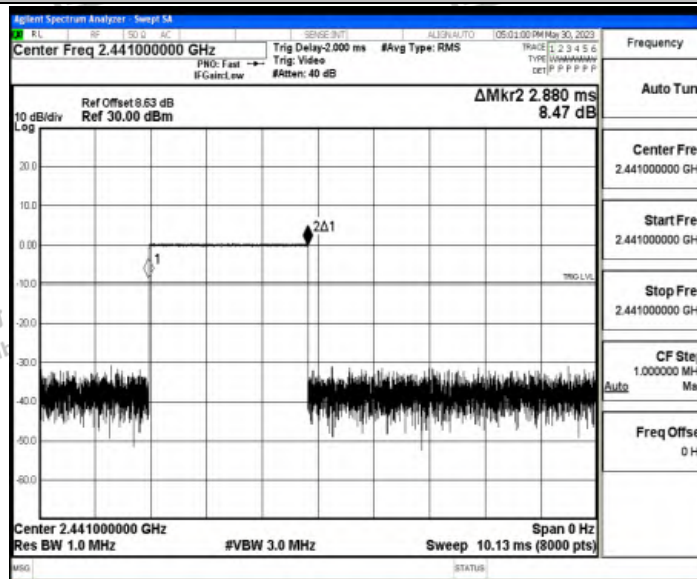
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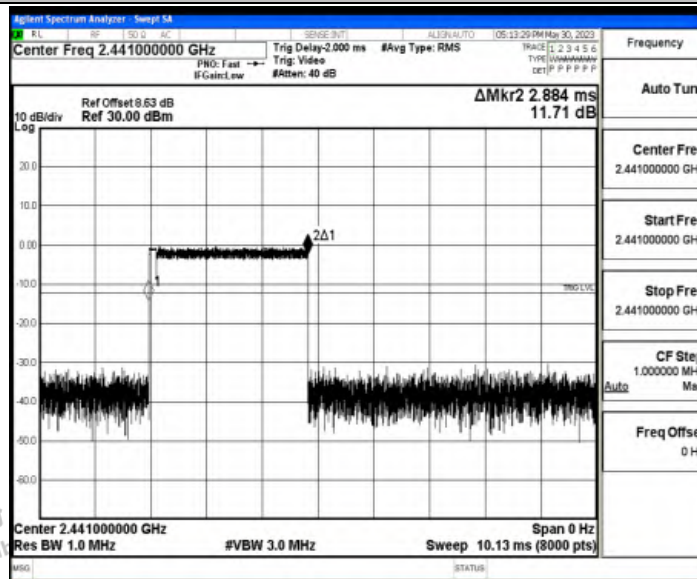


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

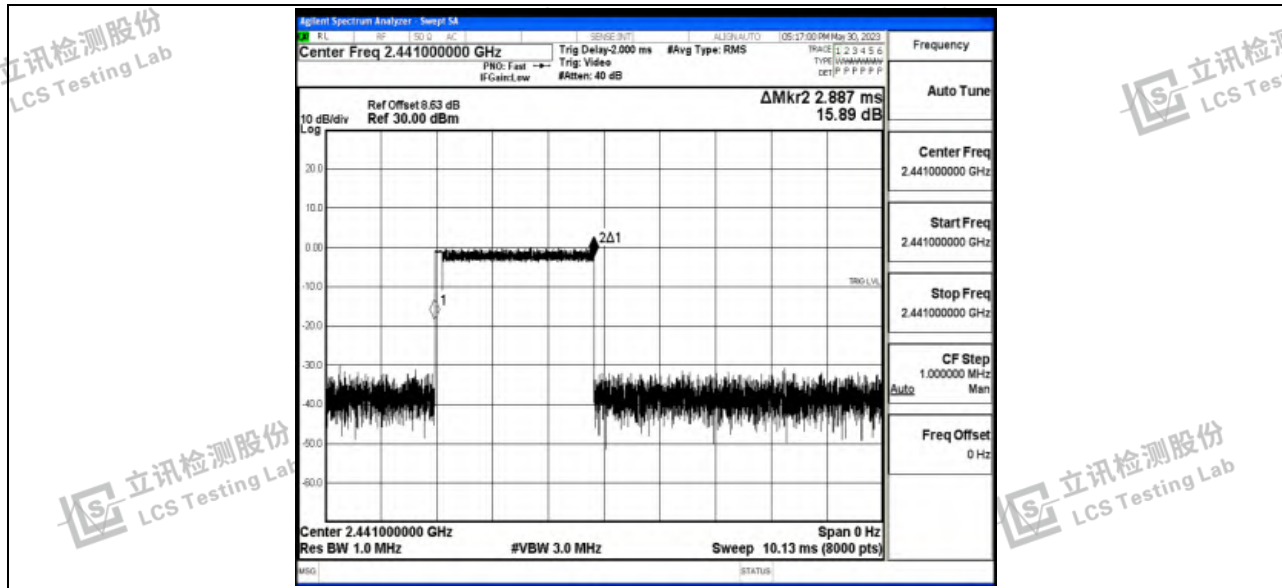


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A.5 Number of hopping channels

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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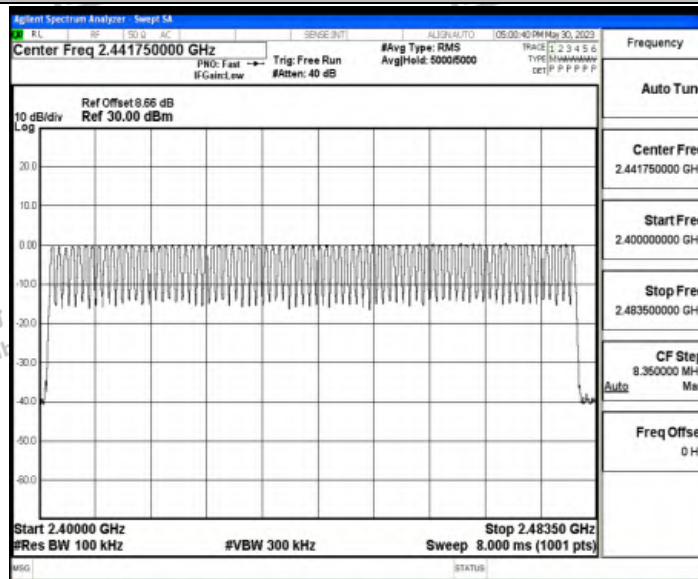
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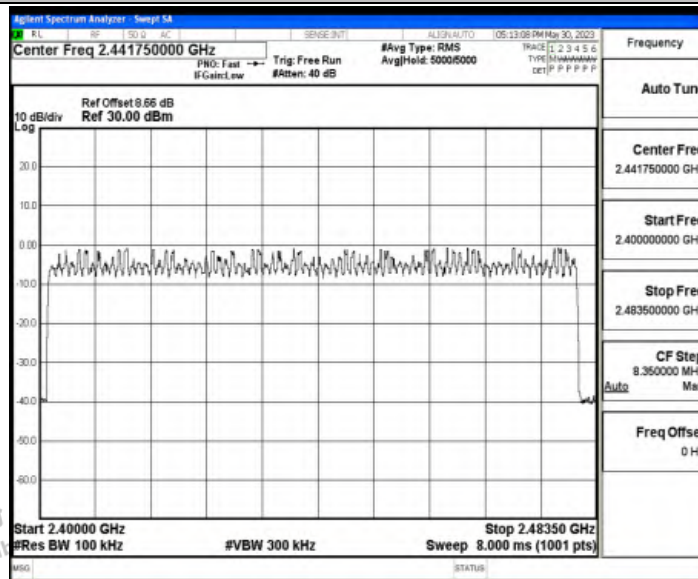


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

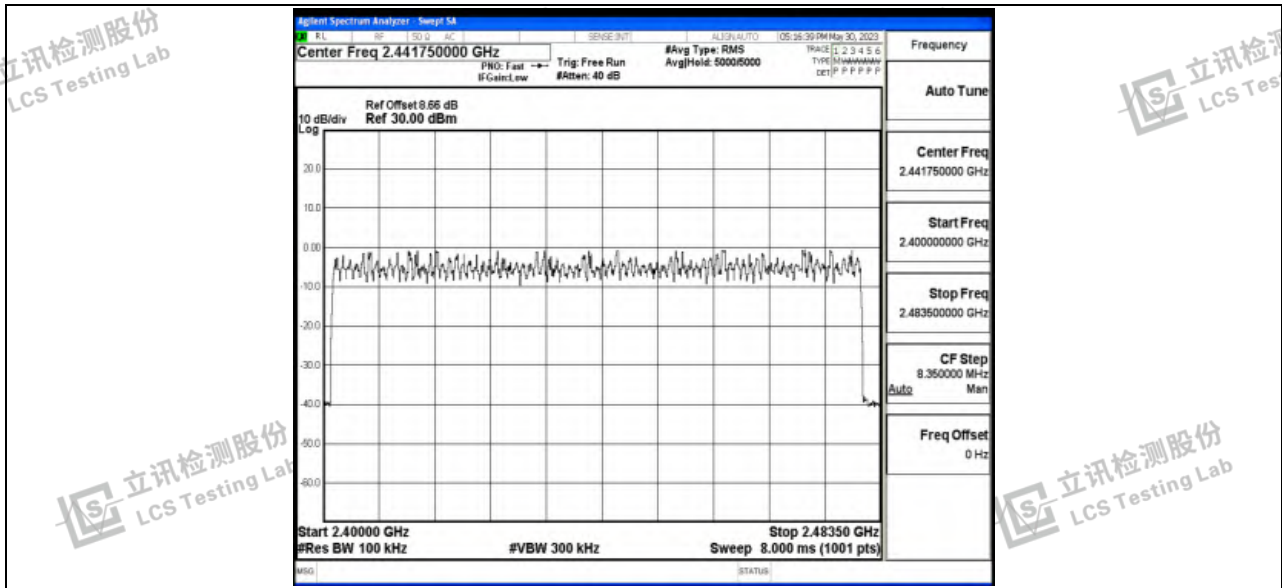


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.91	-50.35	≤ -20.91	PASS
		High	2480	-0.61	-48.56	≤ -20.61	PASS
		Low	Hop_2402	-1.00	-49.24	≤ -21	PASS
		High	Hop_2480	0.27	-47.31	≤ -19.74	PASS
2DH5	Ant1	Low	2402	-6.49	-50.22	≤ -26.49	PASS
		High	2480	-4.99	-49.26	≤ -24.99	PASS
		Low	Hop_2402	-5.13	-49.59	≤ -25.13	PASS
		High	Hop_2480	-1.19	-47.12	≤ -21.19	PASS
3DH5	Ant1	Low	2402	-5.58	-49.72	≤ -25.58	PASS
		High	2480	-4.52	-48.85	≤ -24.52	PASS
		Low	Hop_2402	-1.70	-49.23	≤ -21.7	PASS
		High	Hop_2480	-0.71	-47.36	≤ -20.71	PASS



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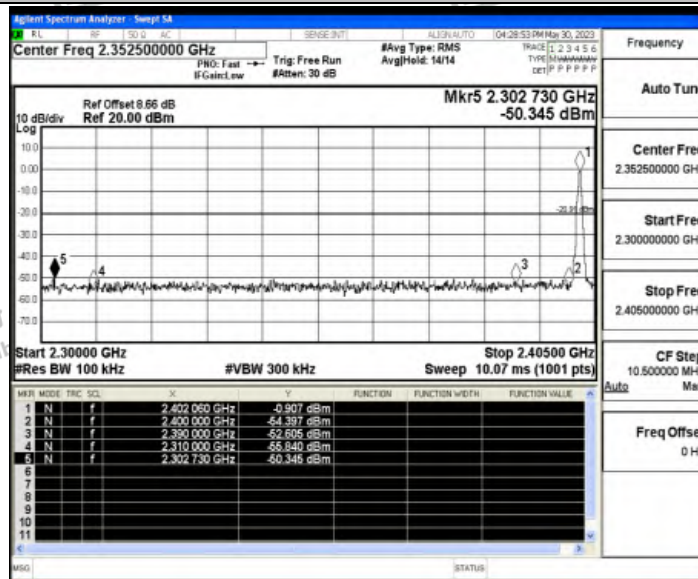
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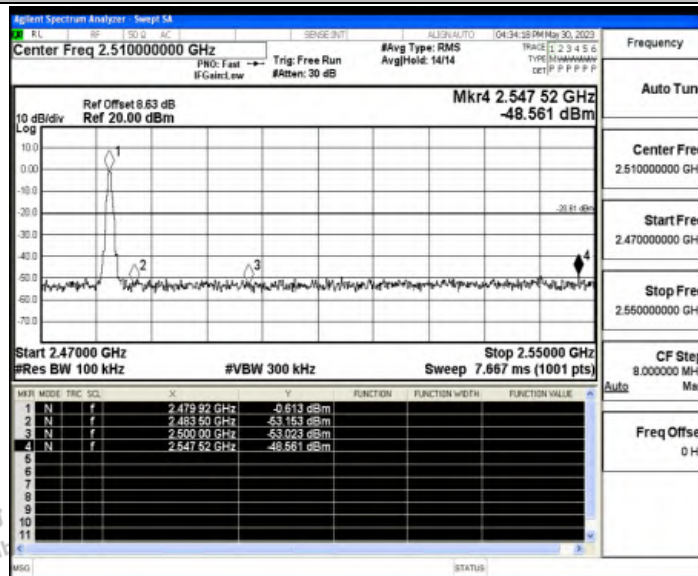


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

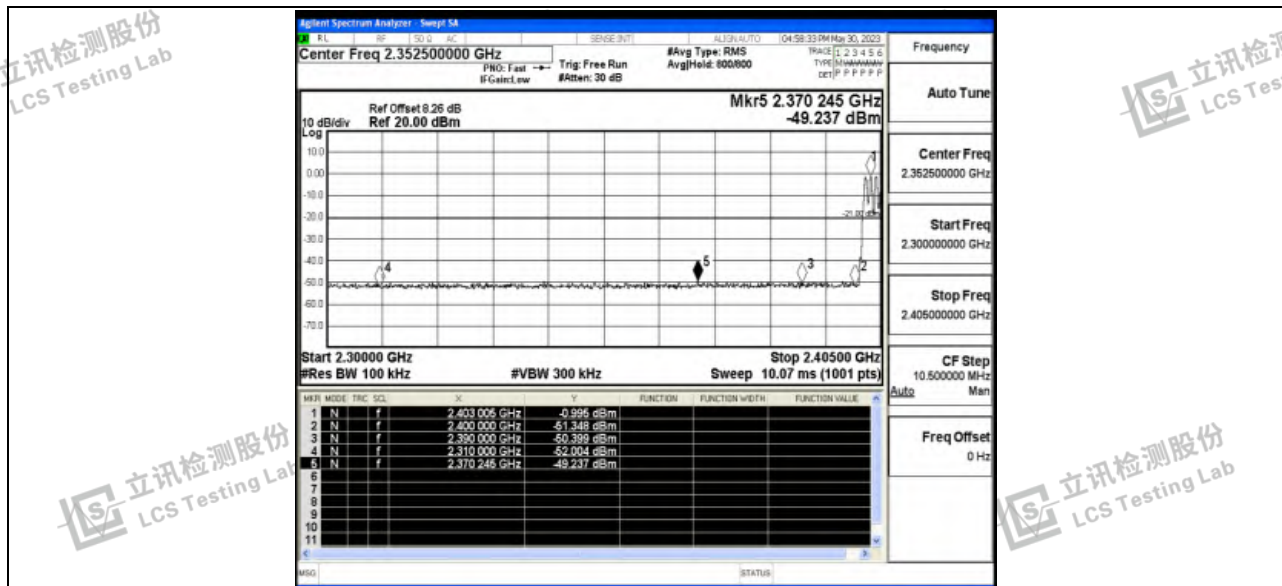


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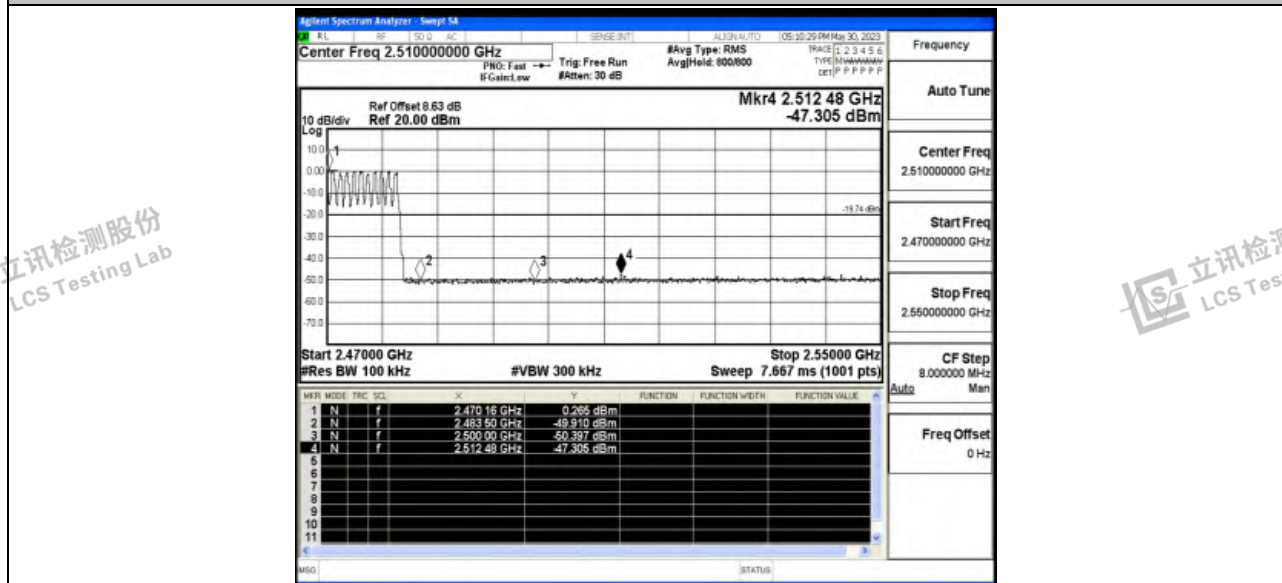
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

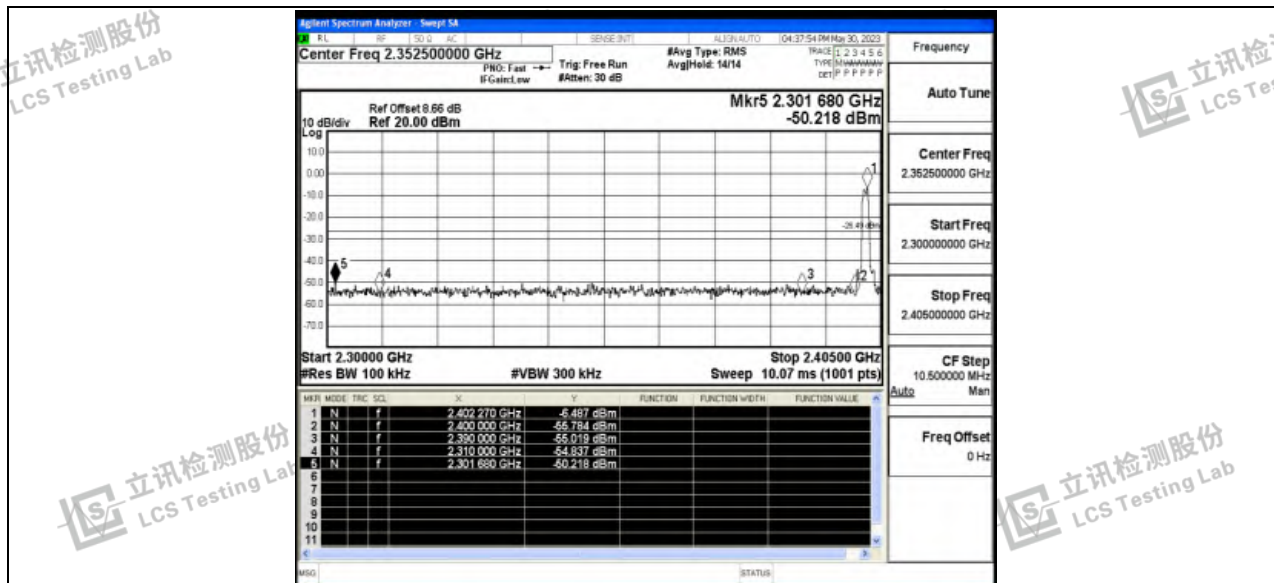


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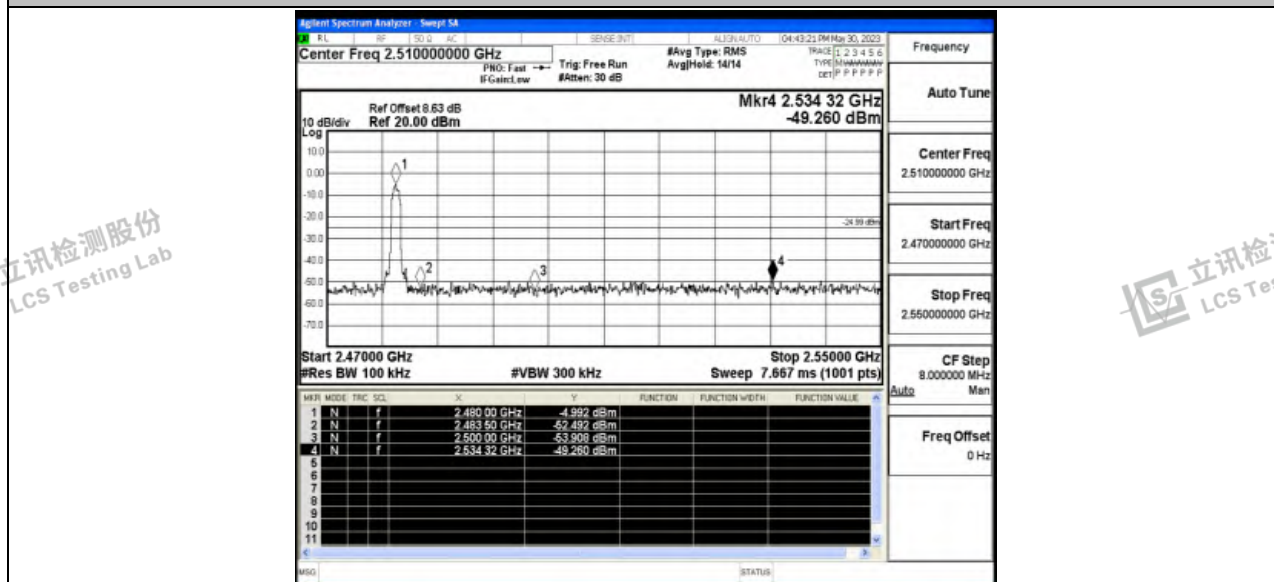
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

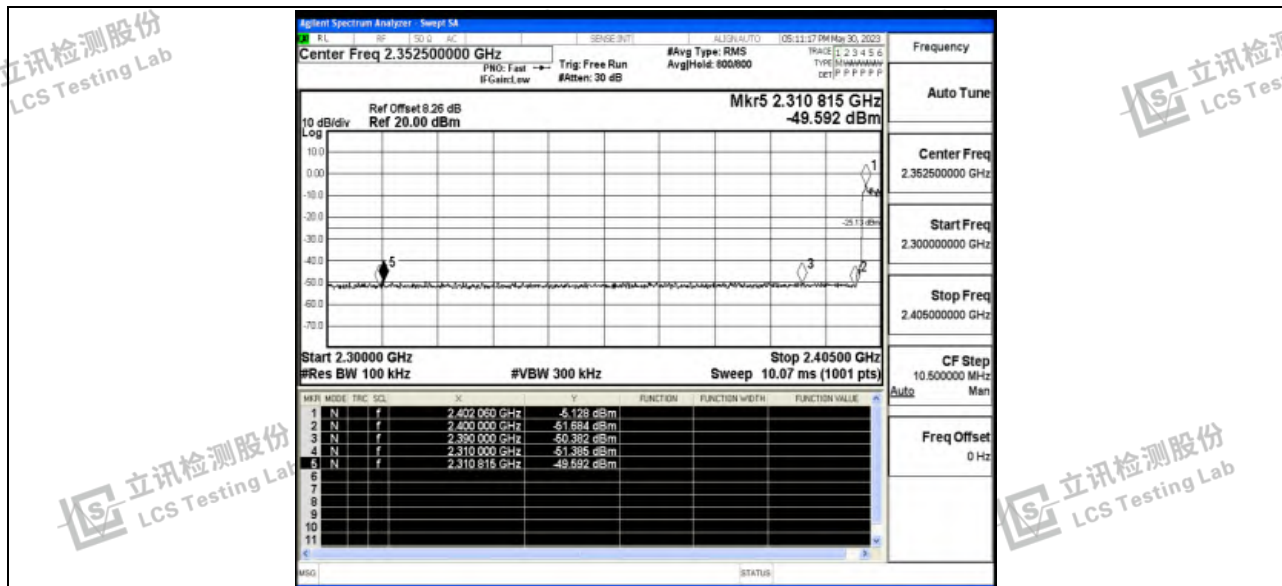


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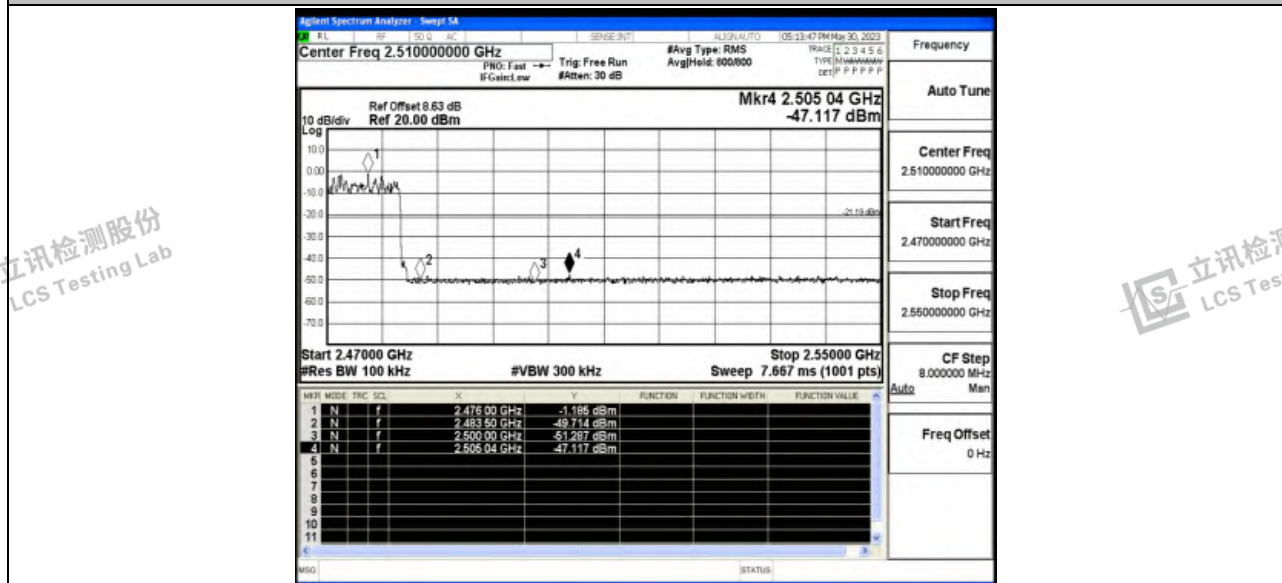
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

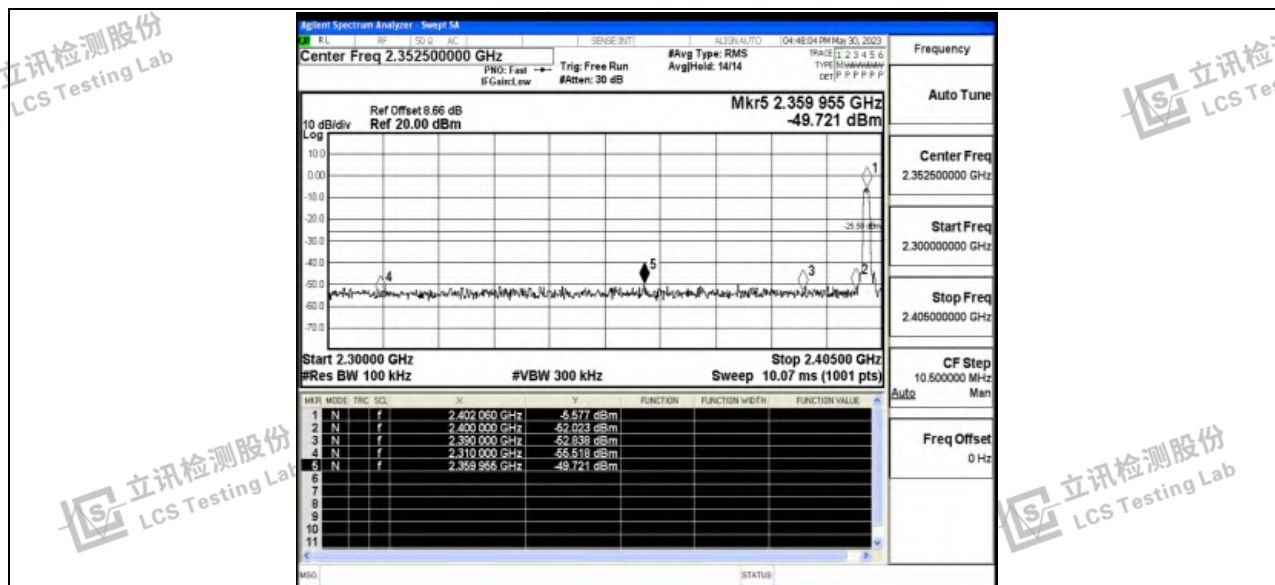


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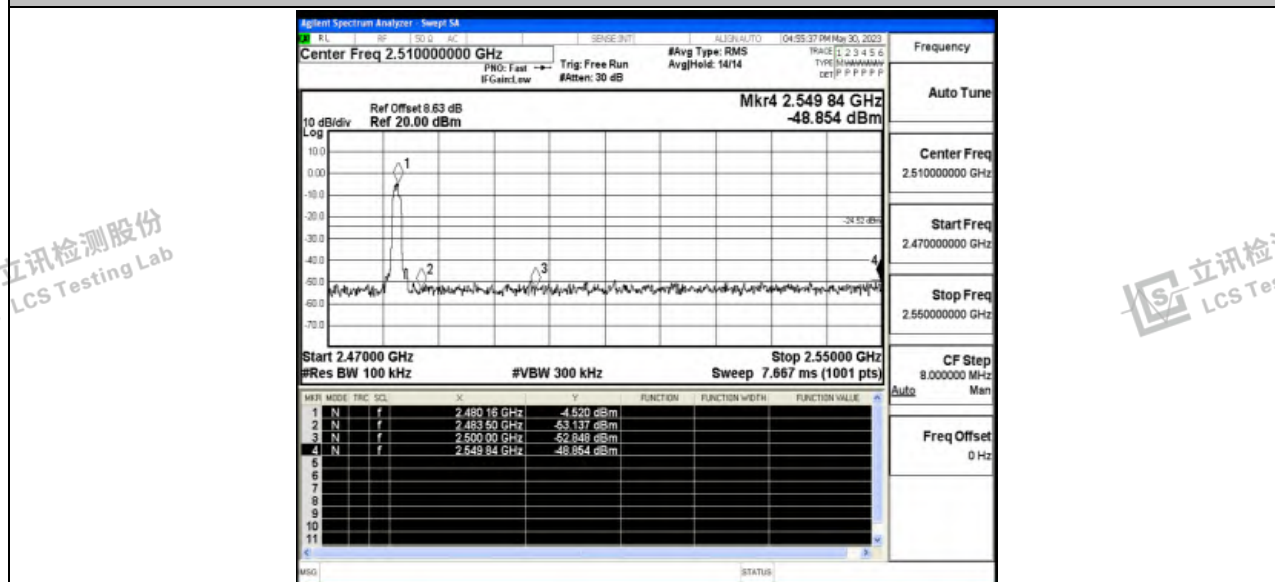
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

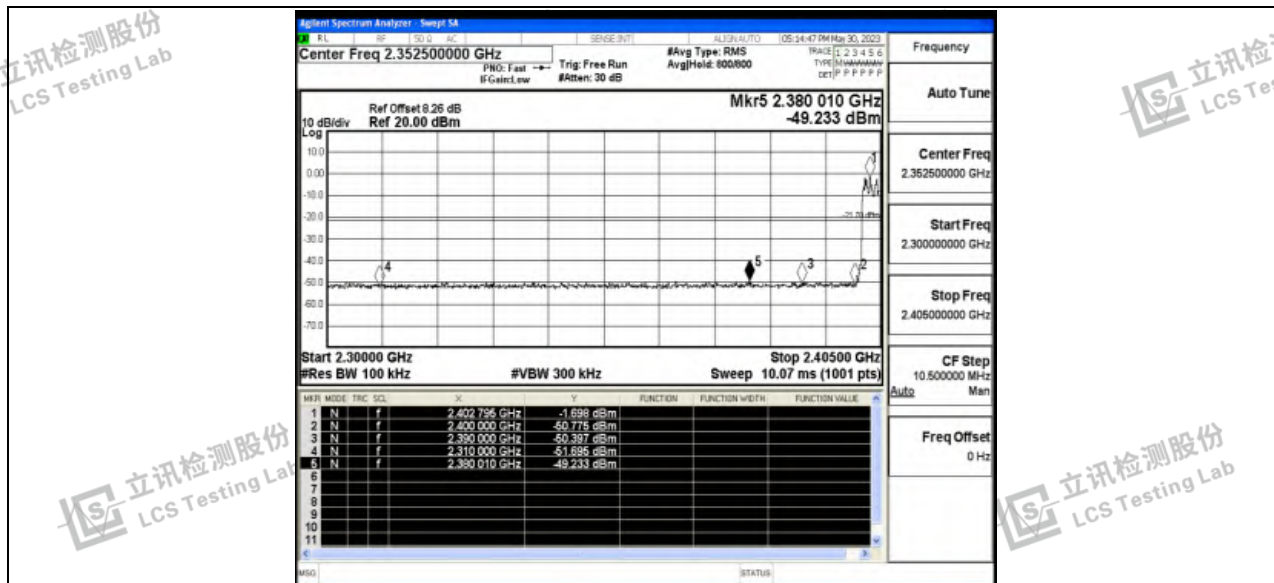


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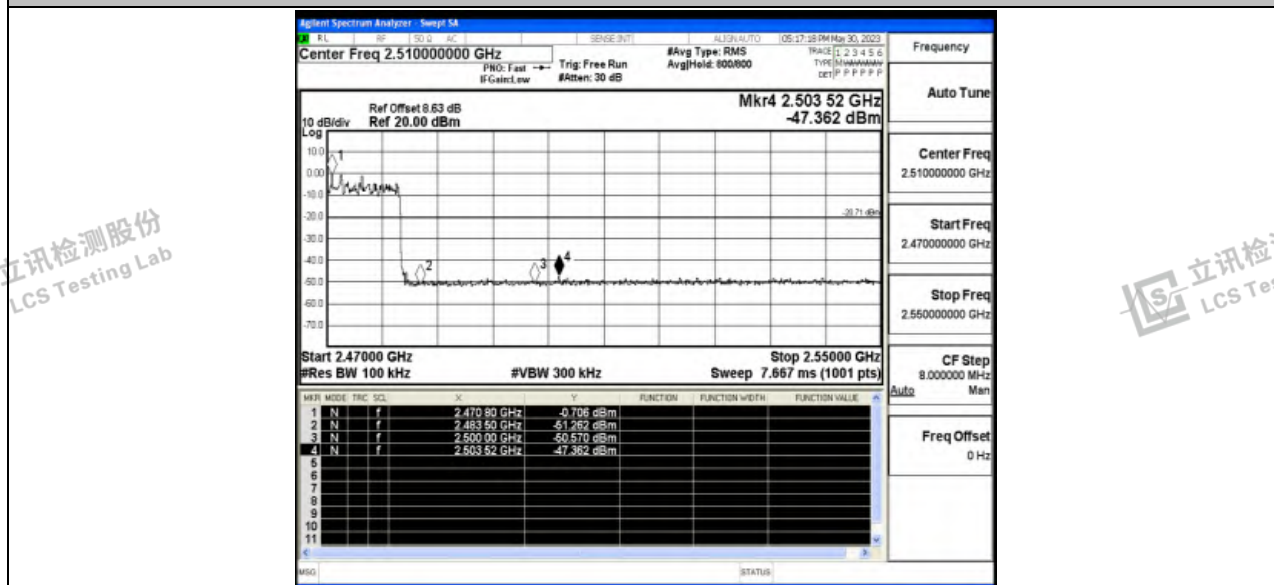
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3DH5_Ant1_High_Hop_2480



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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	Reference	-1.23	-1.23	---	PASS
			30~1000	-1.23	-60.43	≤ -21.23	PASS
			1000~26500	-1.23	-45.86	≤ -21.23	PASS
		2441	Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-60.38	≤ -21.12	PASS
			1000~26500	-1.12	-46.08	≤ -21.12	PASS
		2480	Reference	-0.61	-0.61	---	PASS
			30~1000	-0.61	-60.34	≤ -20.61	PASS
			1000~26500	-0.61	-46.24	≤ -20.61	PASS
2DH5	Ant1	2402	Reference	-6.20	-6.20	---	PASS
			30~1000	-6.20	-45.52	≤ -26.2	PASS
			1000~26500	-6.20	-46.5	≤ -26.2	PASS
		2441	Reference	-1.90	-1.90	---	PASS
			30~1000	-1.90	-60.53	≤ -21.9	PASS
			1000~26500	-1.90	-46.44	≤ -21.9	PASS
		2480	Reference	-1.85	-1.85	---	PASS
			30~1000	-1.85	-60.69	≤ -21.85	PASS
			1000~26500	-1.85	-46.48	≤ -21.85	PASS
3DH5	Ant1	2402	Reference	-5.37	-5.37	---	PASS
			30~1000	-5.37	-60.66	≤ -25.37	PASS
			1000~26500	-5.37	-45.87	≤ -25.37	PASS
		2441	Reference	-2.24	-2.24	---	PASS
			30~1000	-2.24	-60.75	≤ -22.24	PASS
			1000~26500	-2.24	-45.98	≤ -22.24	PASS
		2480	Reference	-4.83	-4.83	---	PASS
			30~1000	-4.83	-60.2	≤ -24.83	PASS
			1000~26500	-4.83	-46.43	≤ -24.83	PASS



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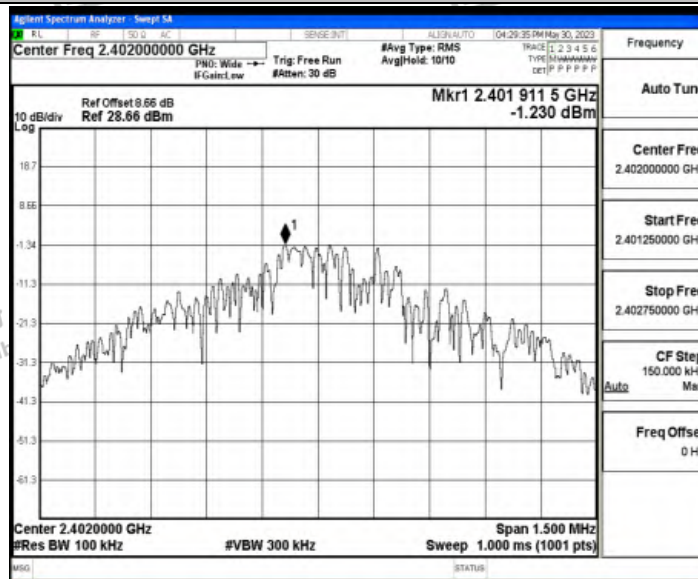
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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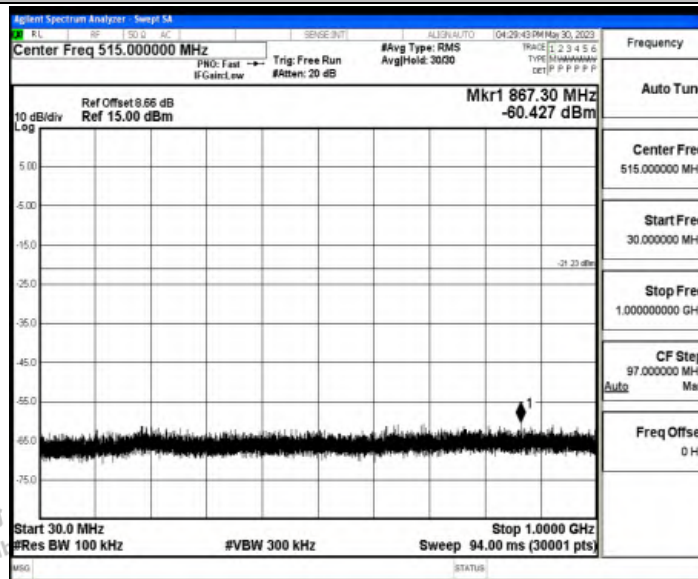


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

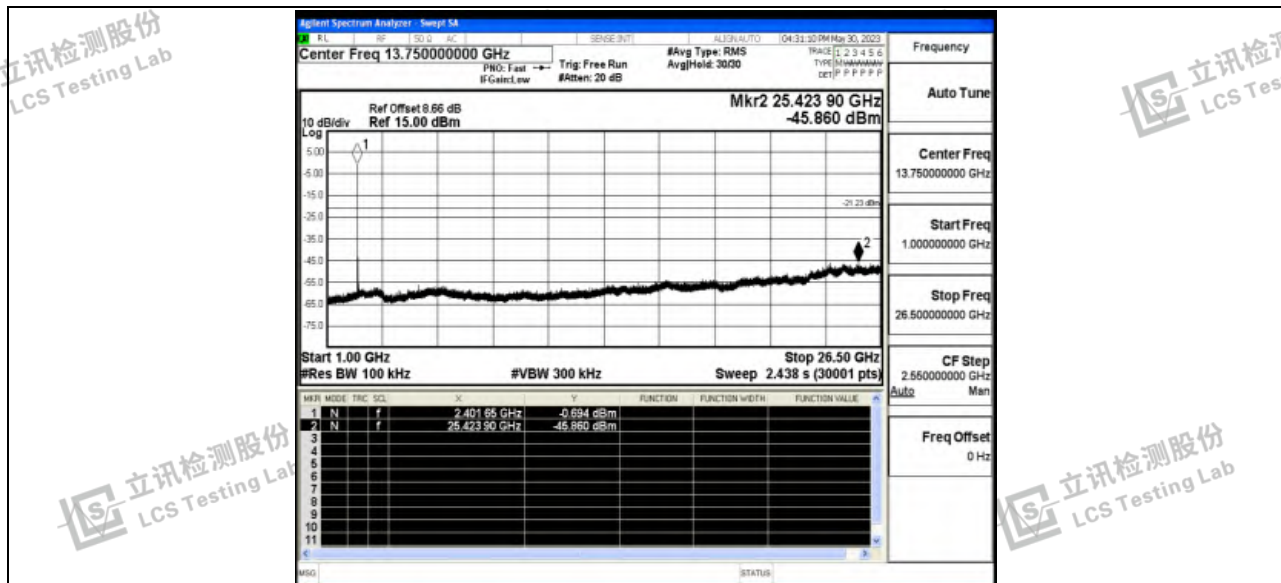


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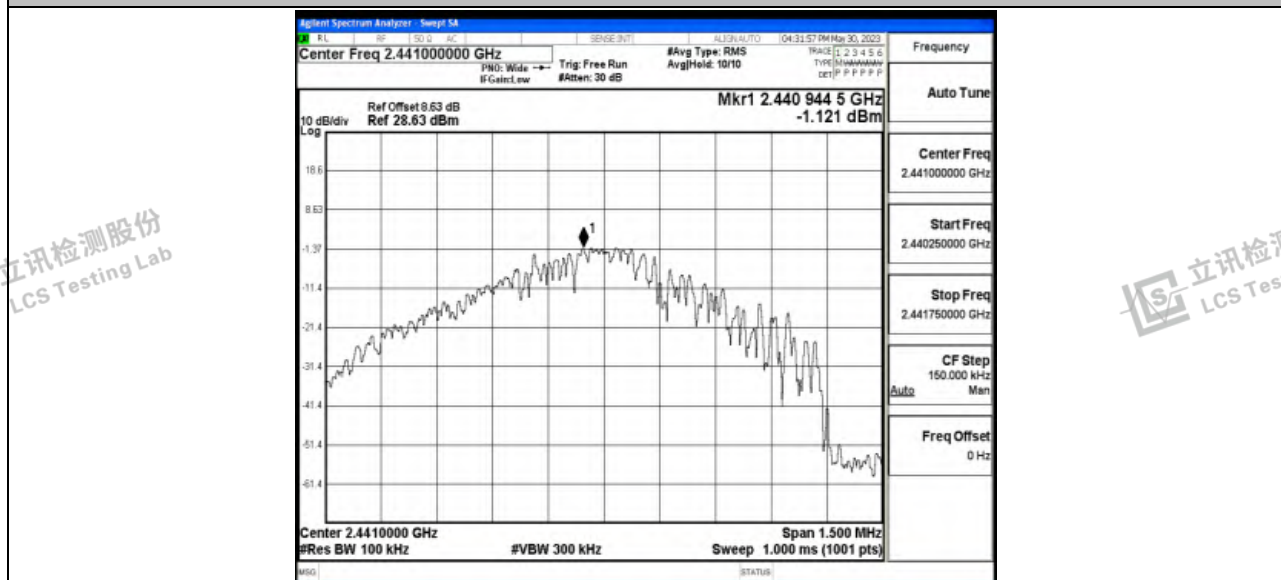
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

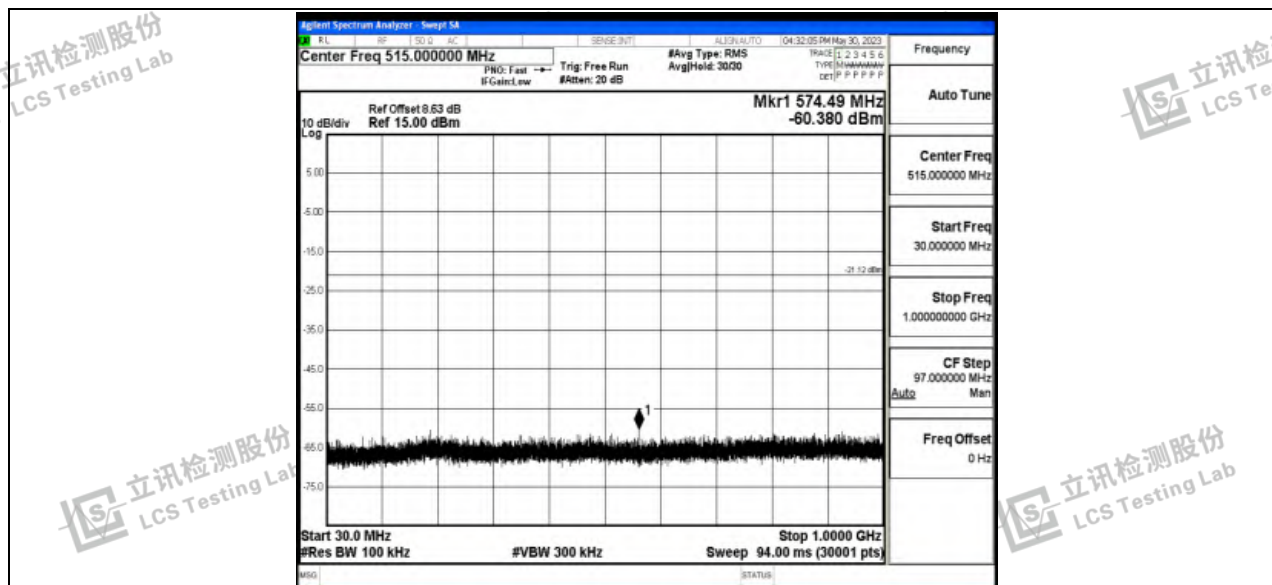


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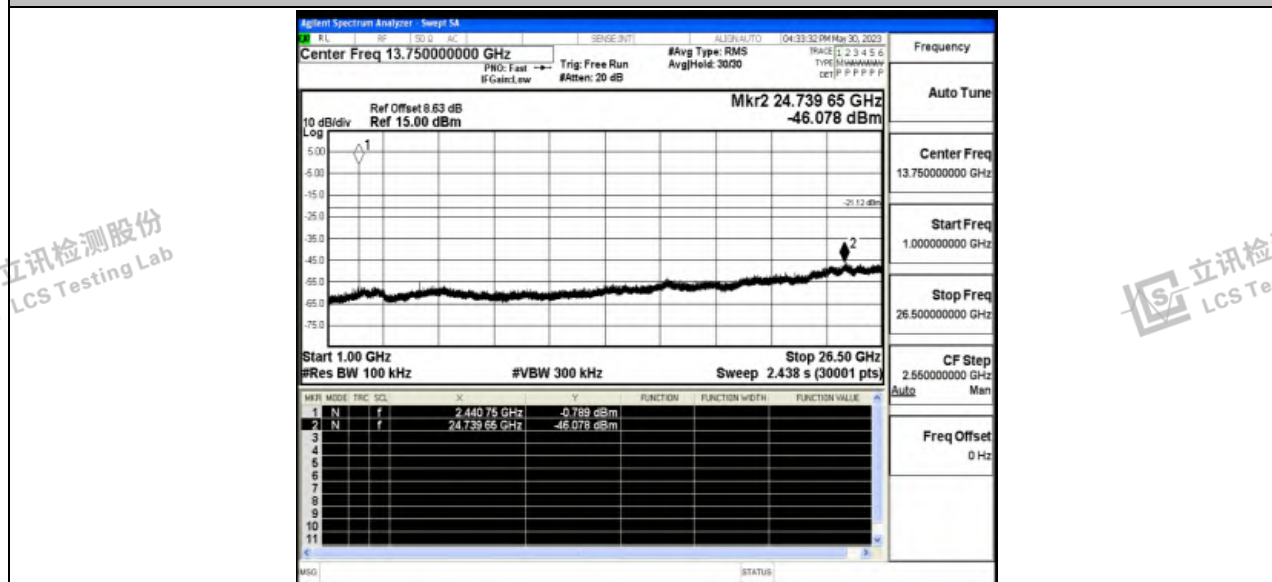
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

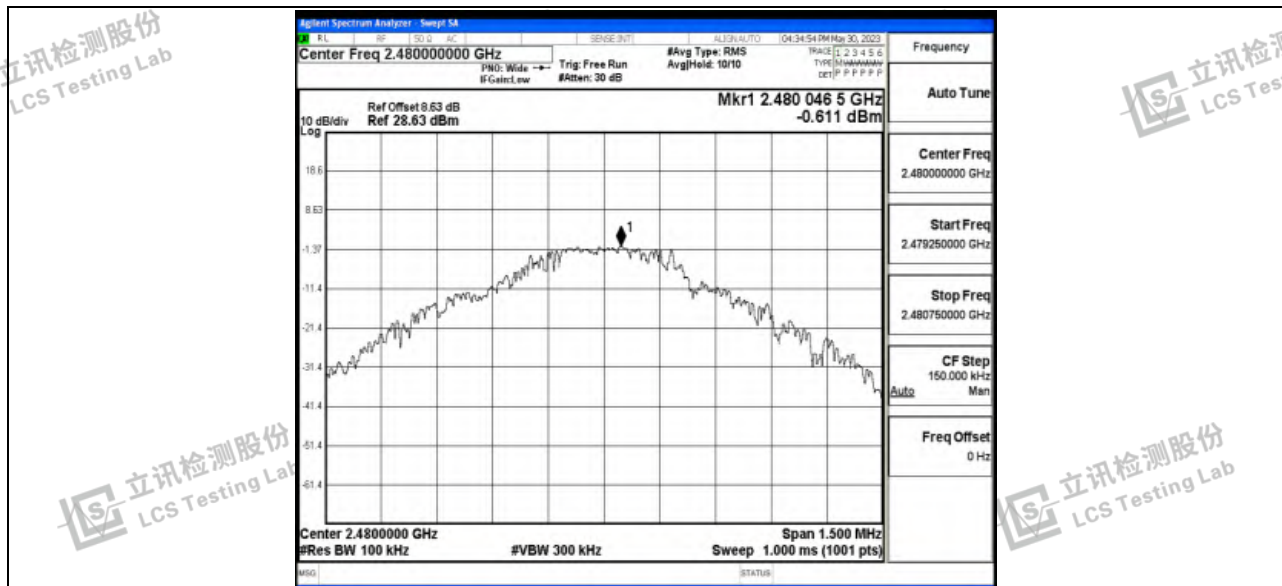


Shenzhen LCS Compliance Testing Laboratory Ltd.

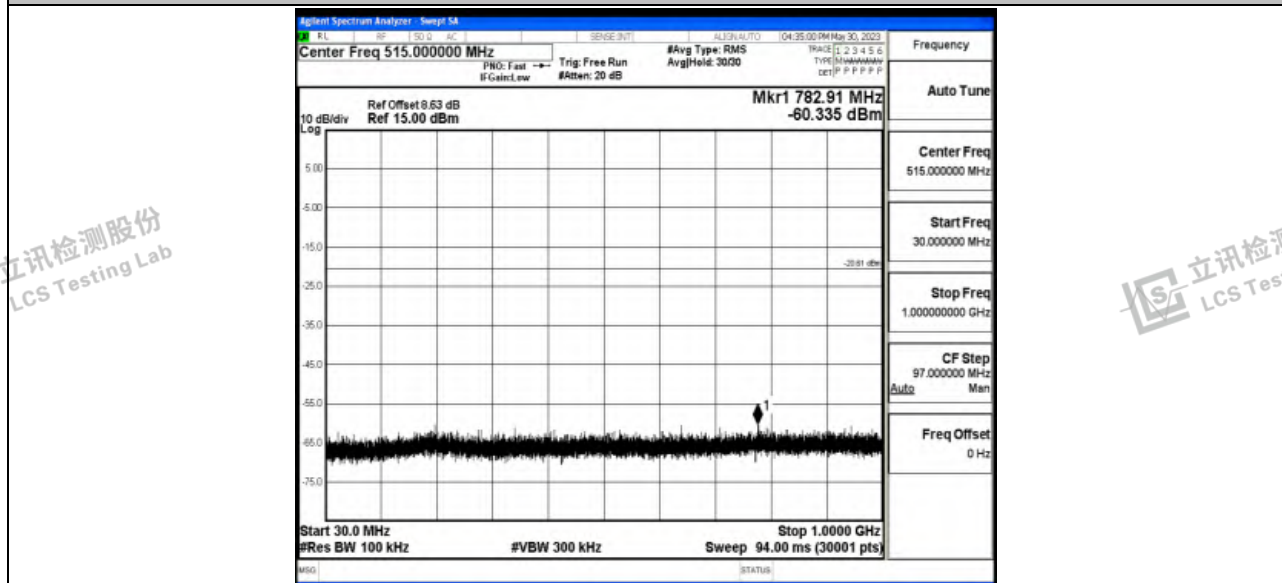
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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

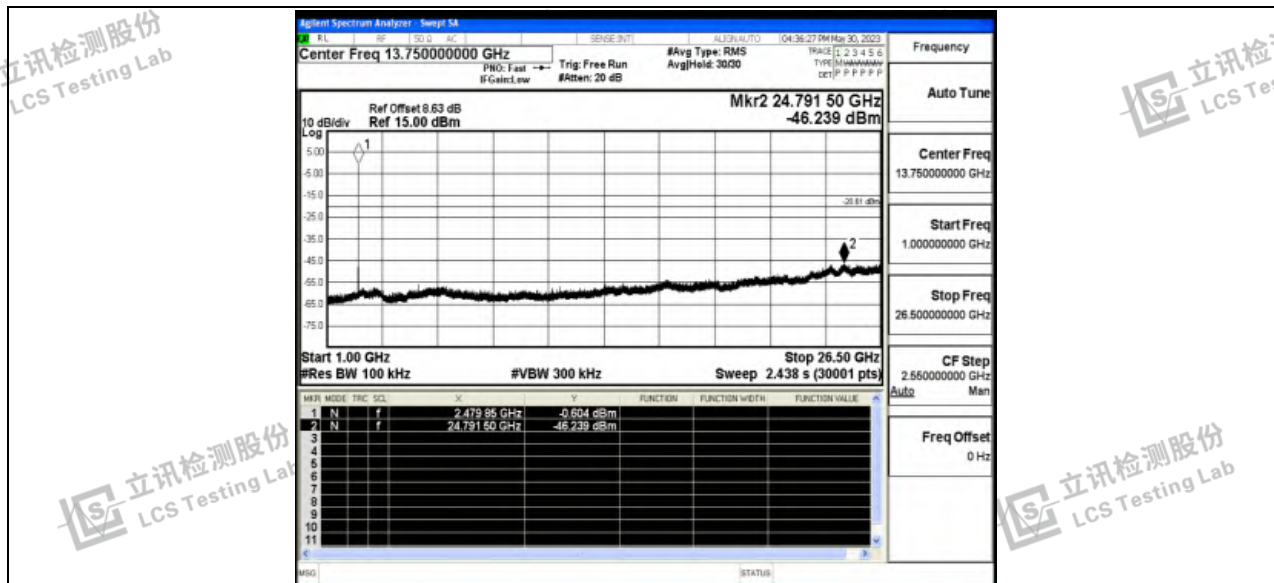


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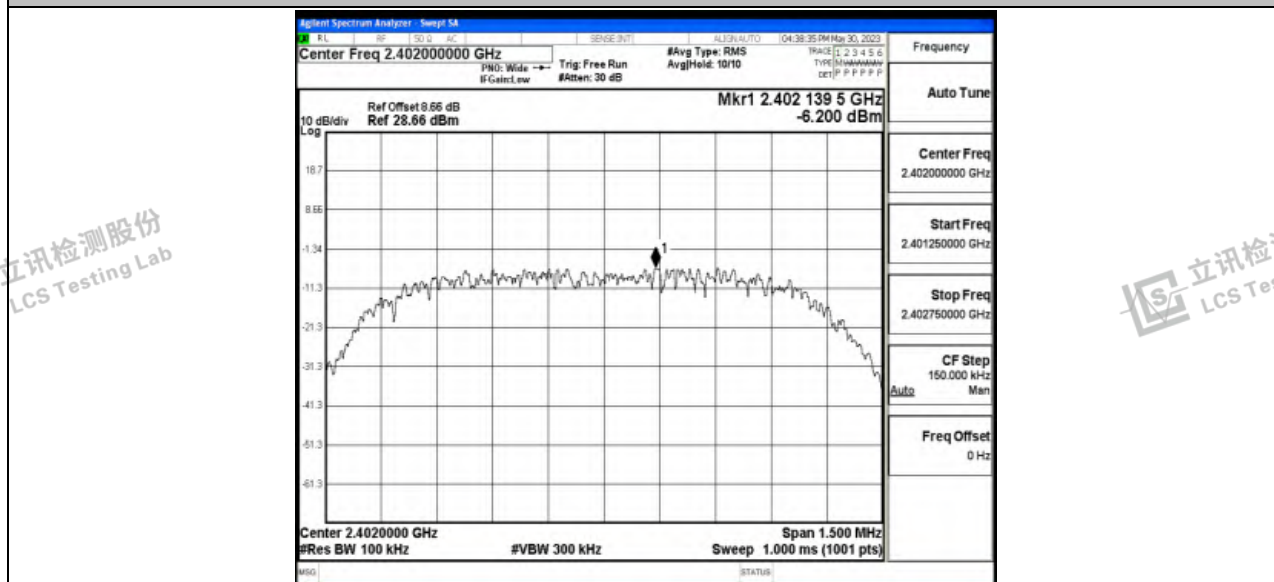
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

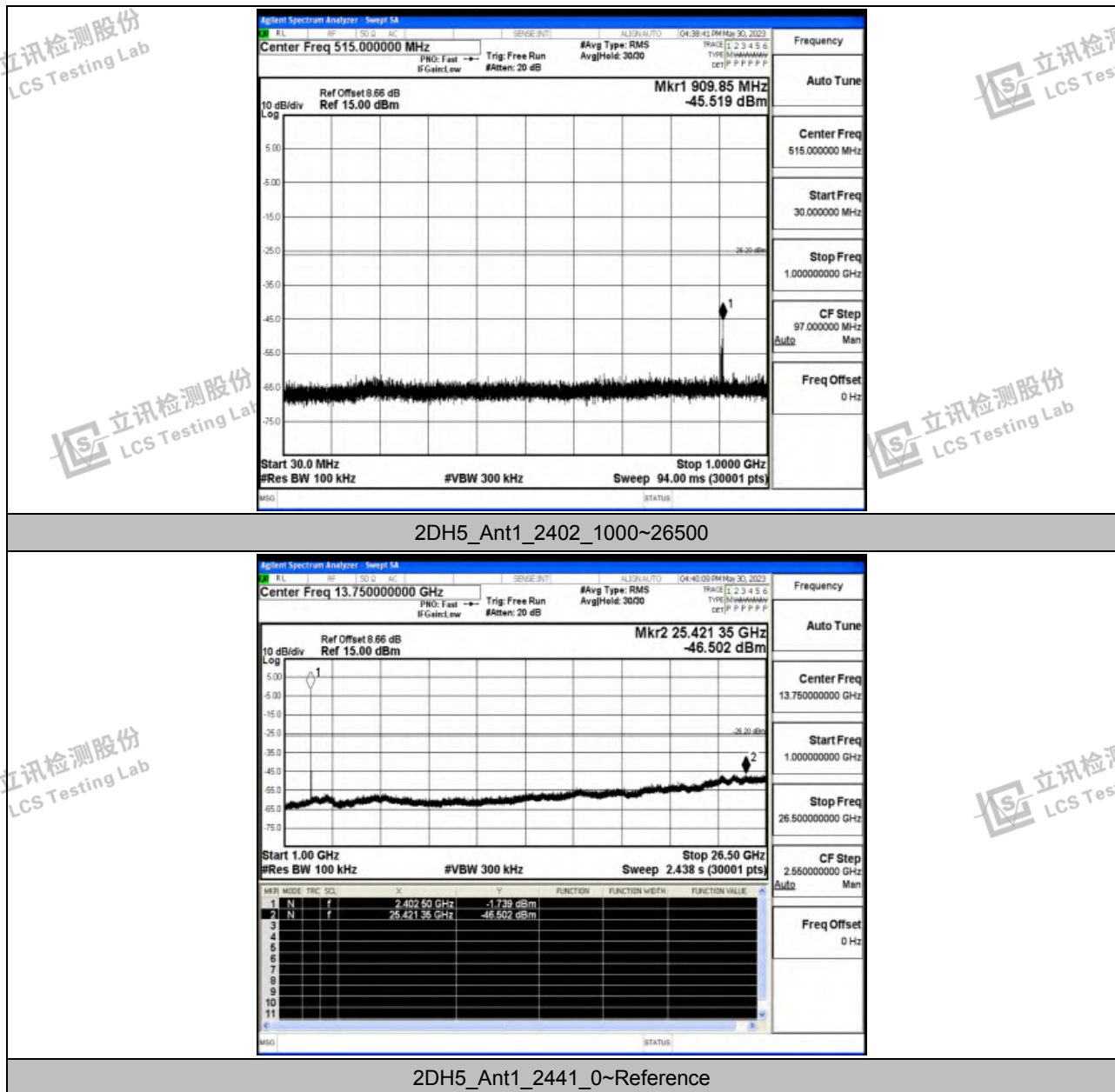


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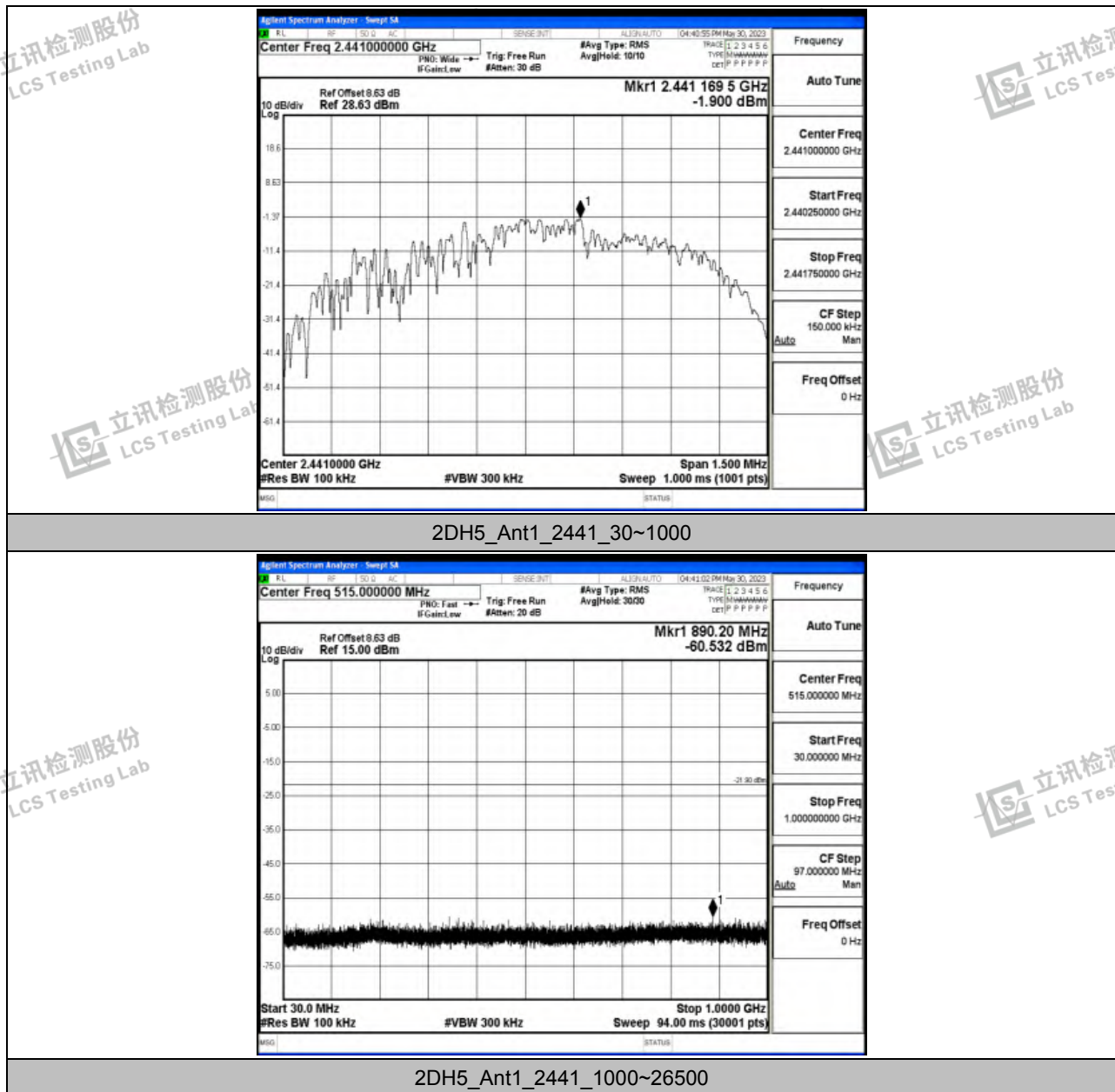


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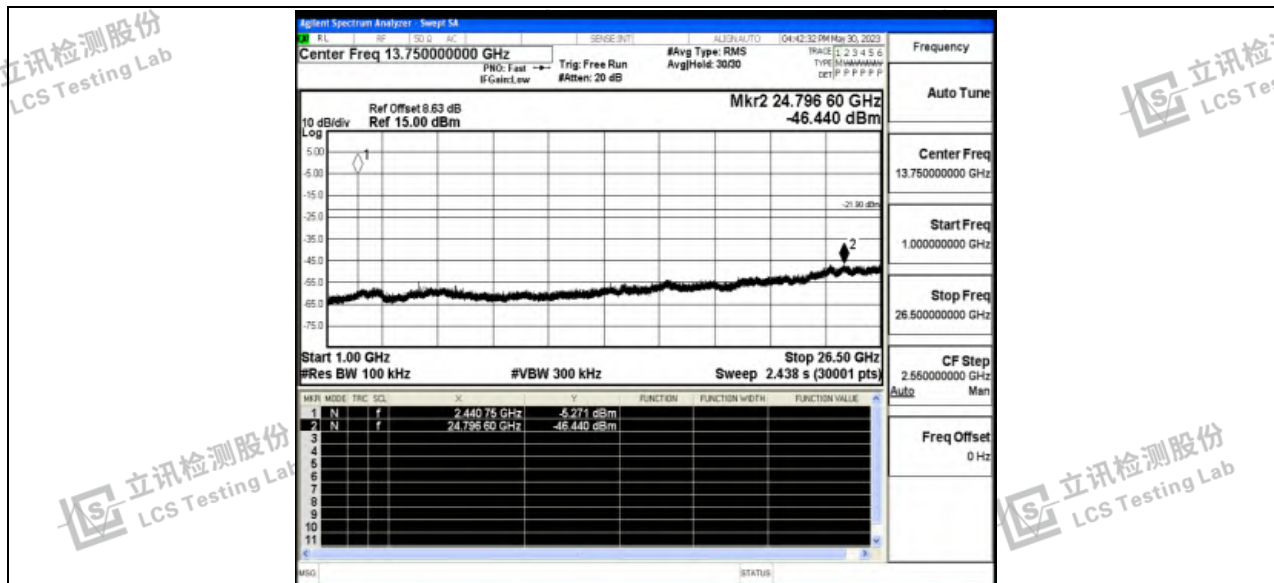


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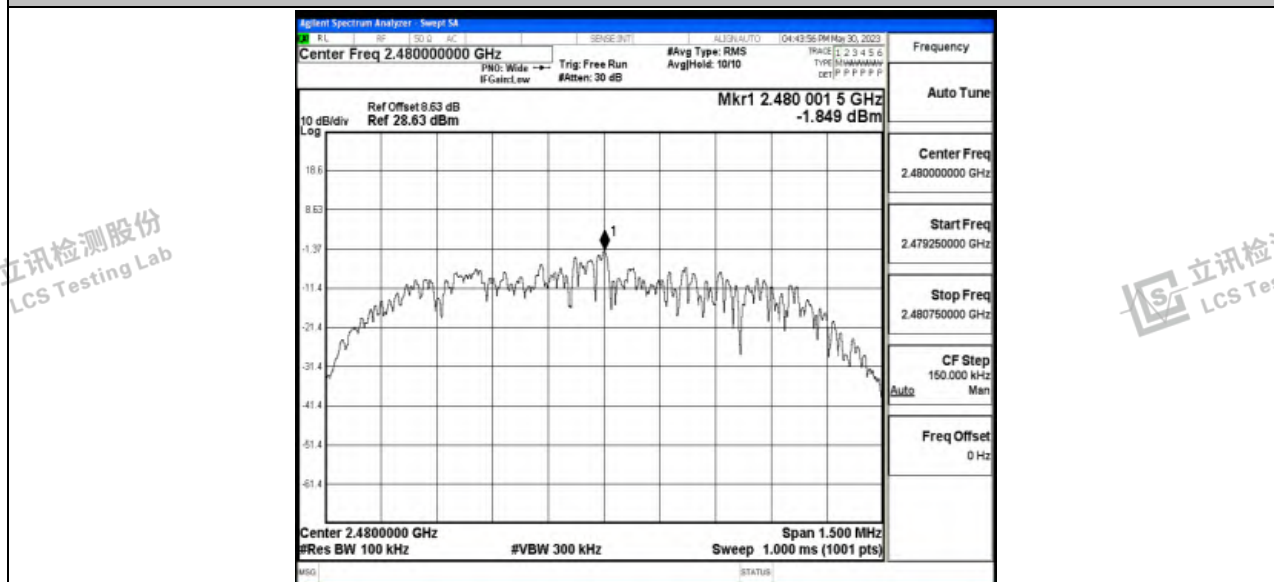
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

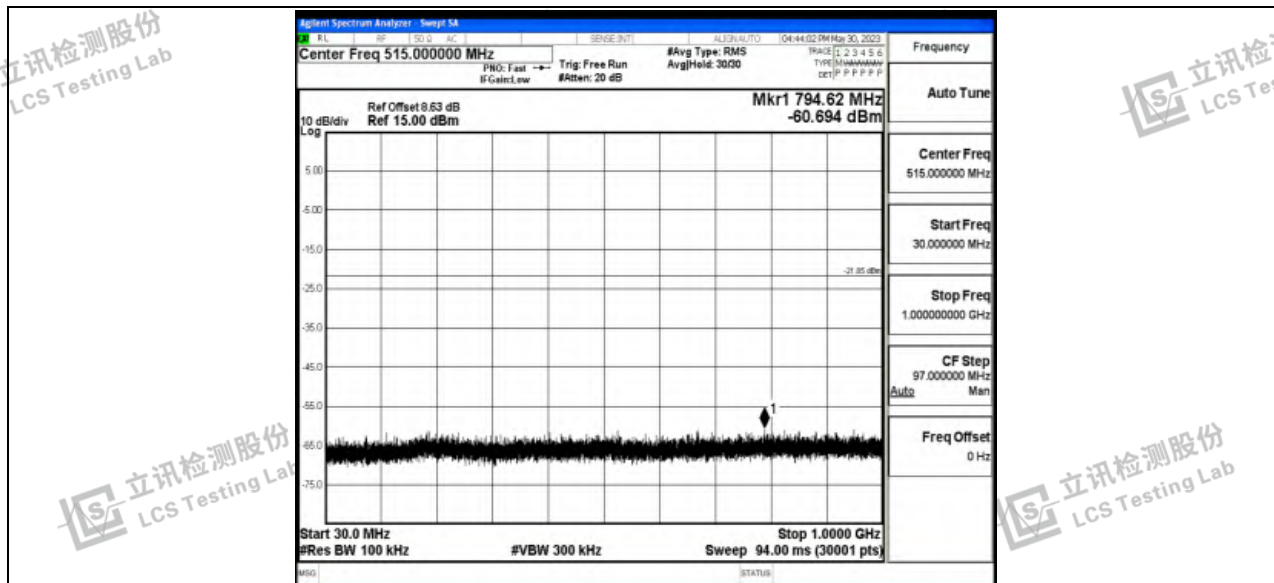


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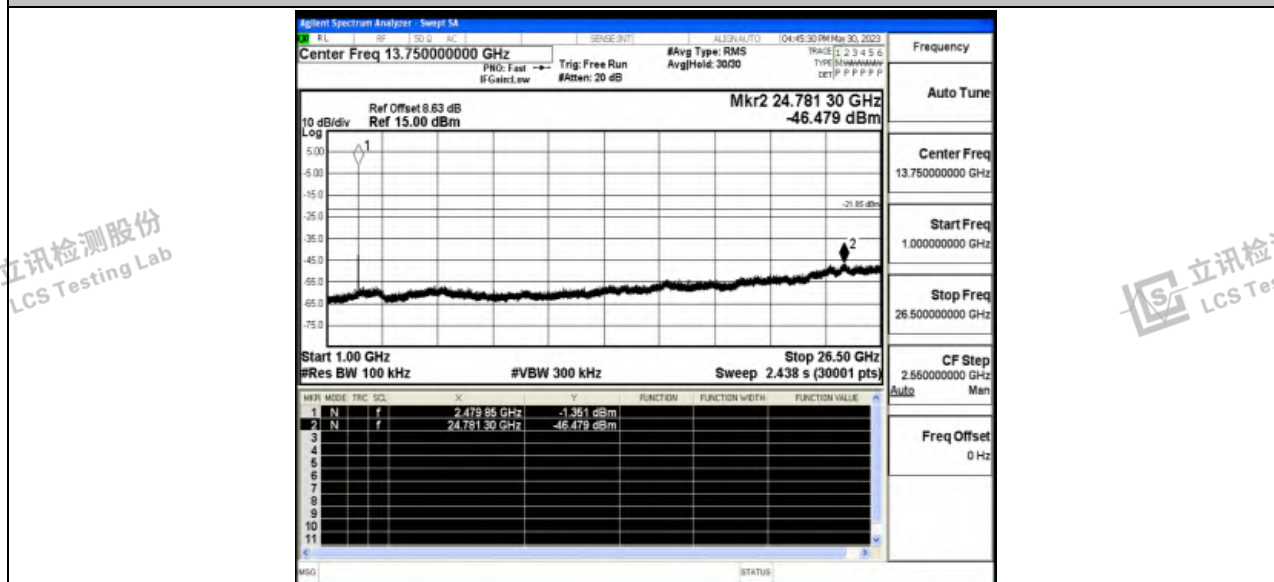
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

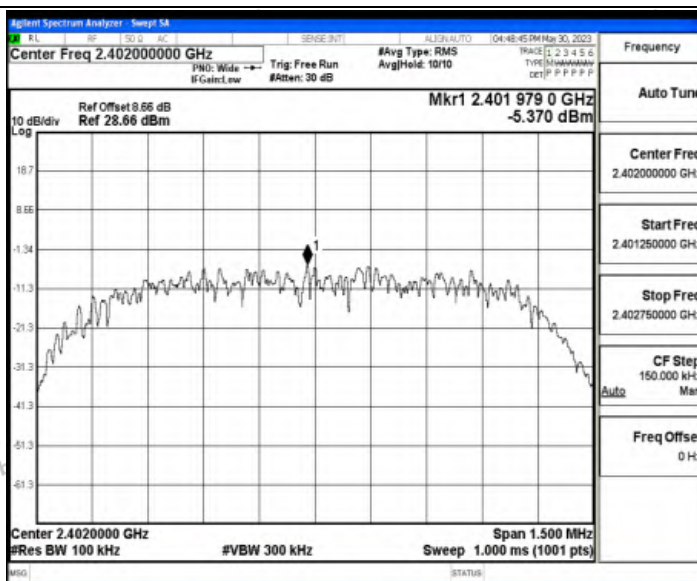


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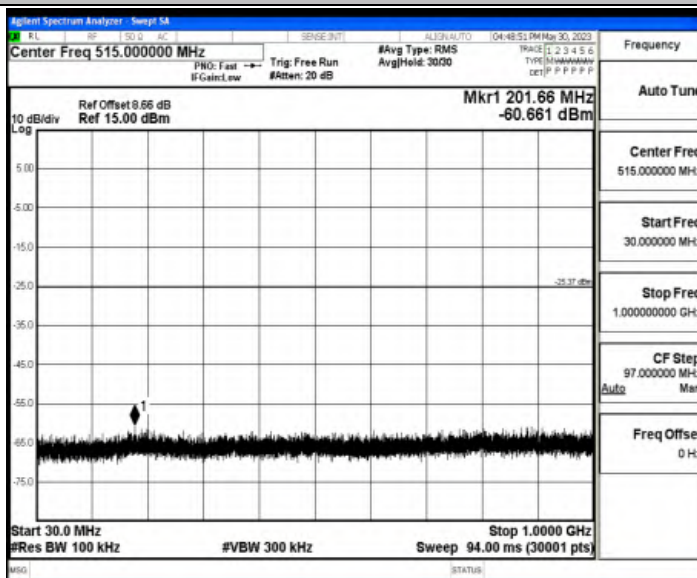
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3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

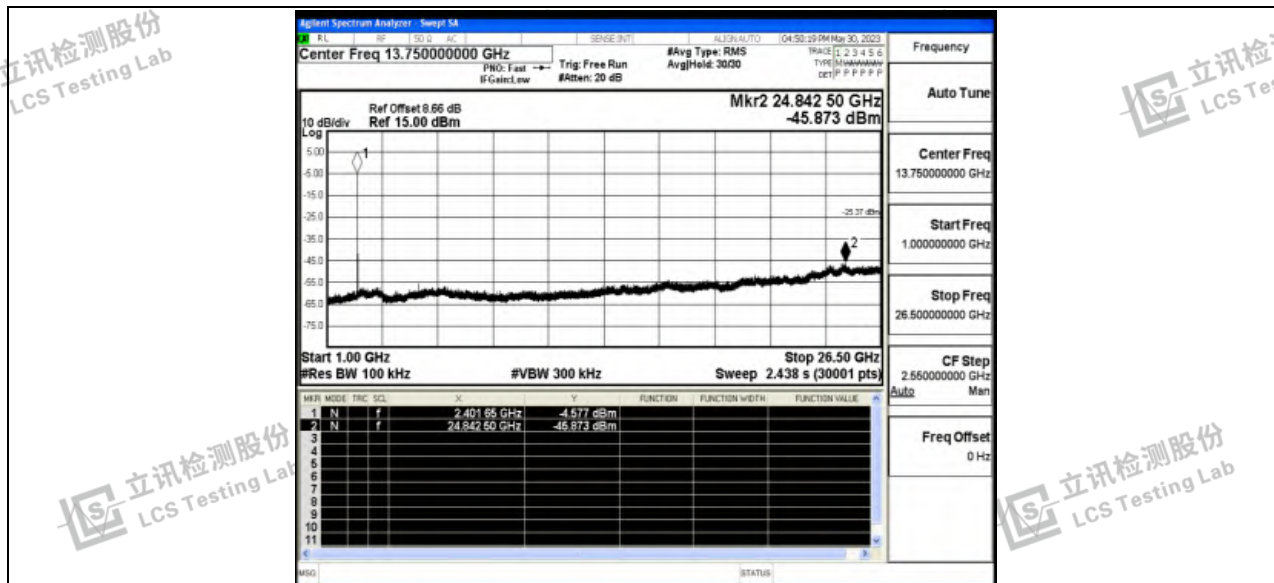


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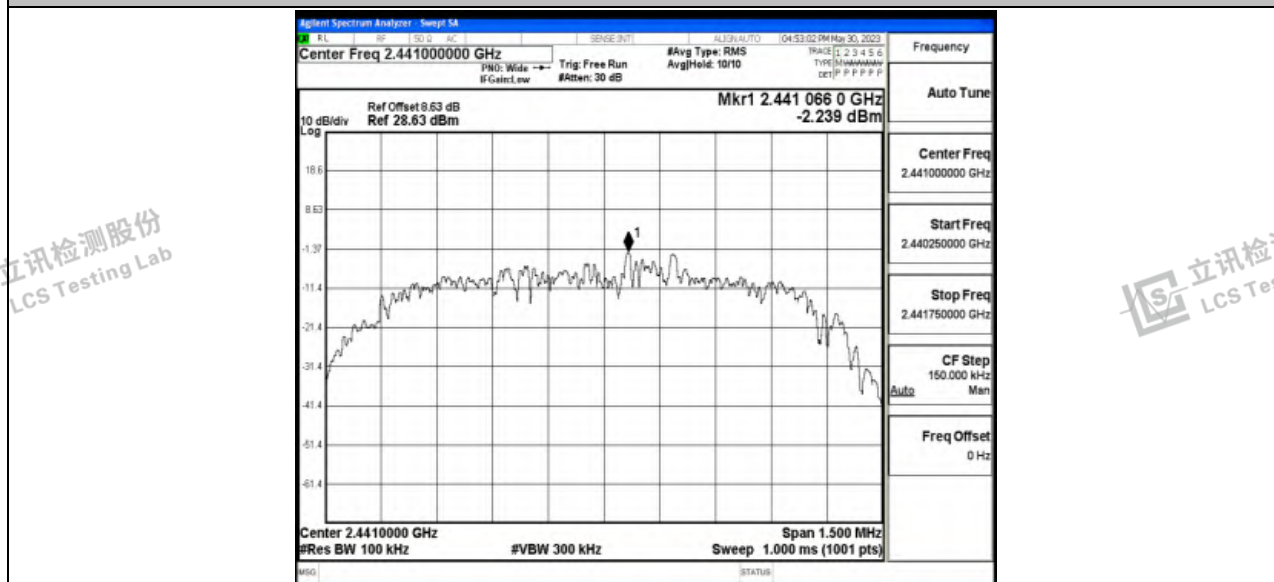
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

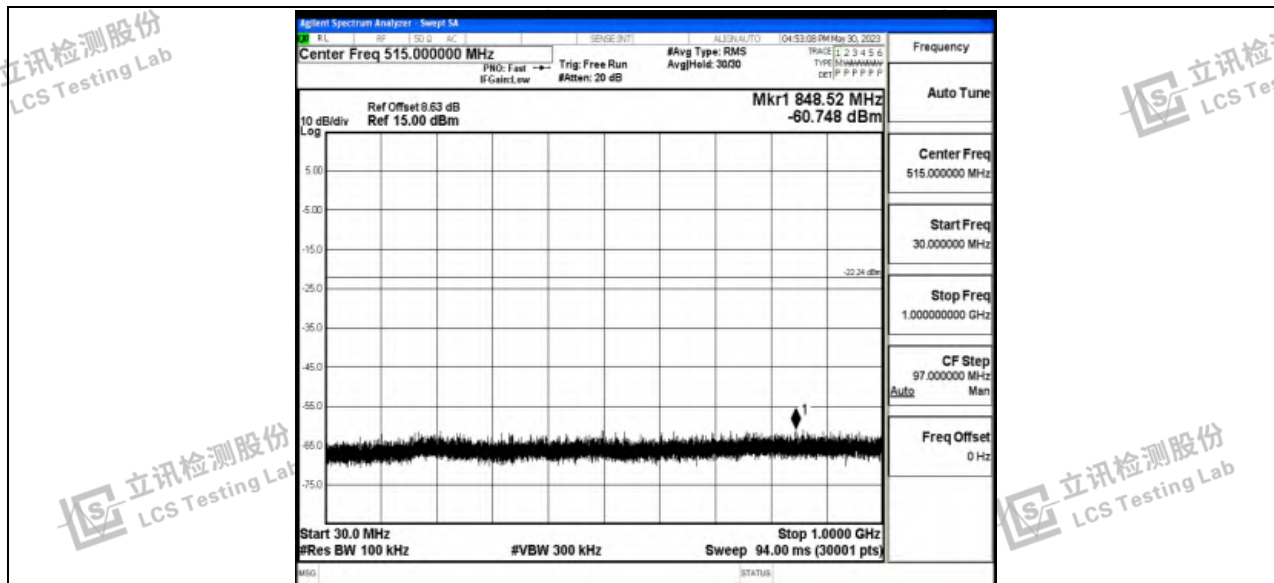


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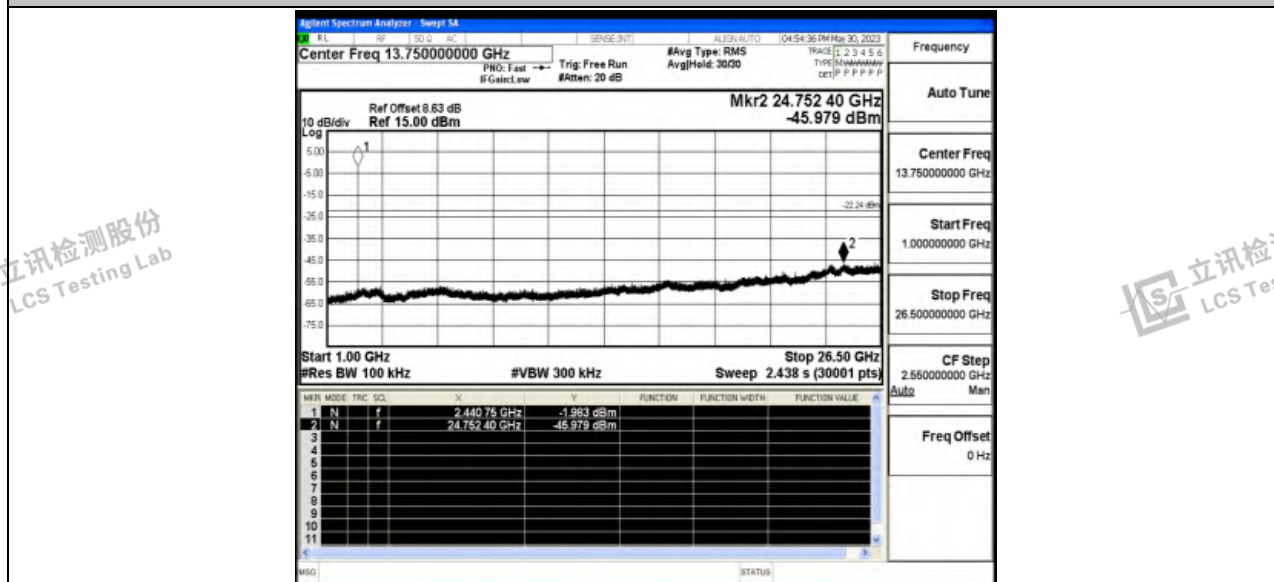
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

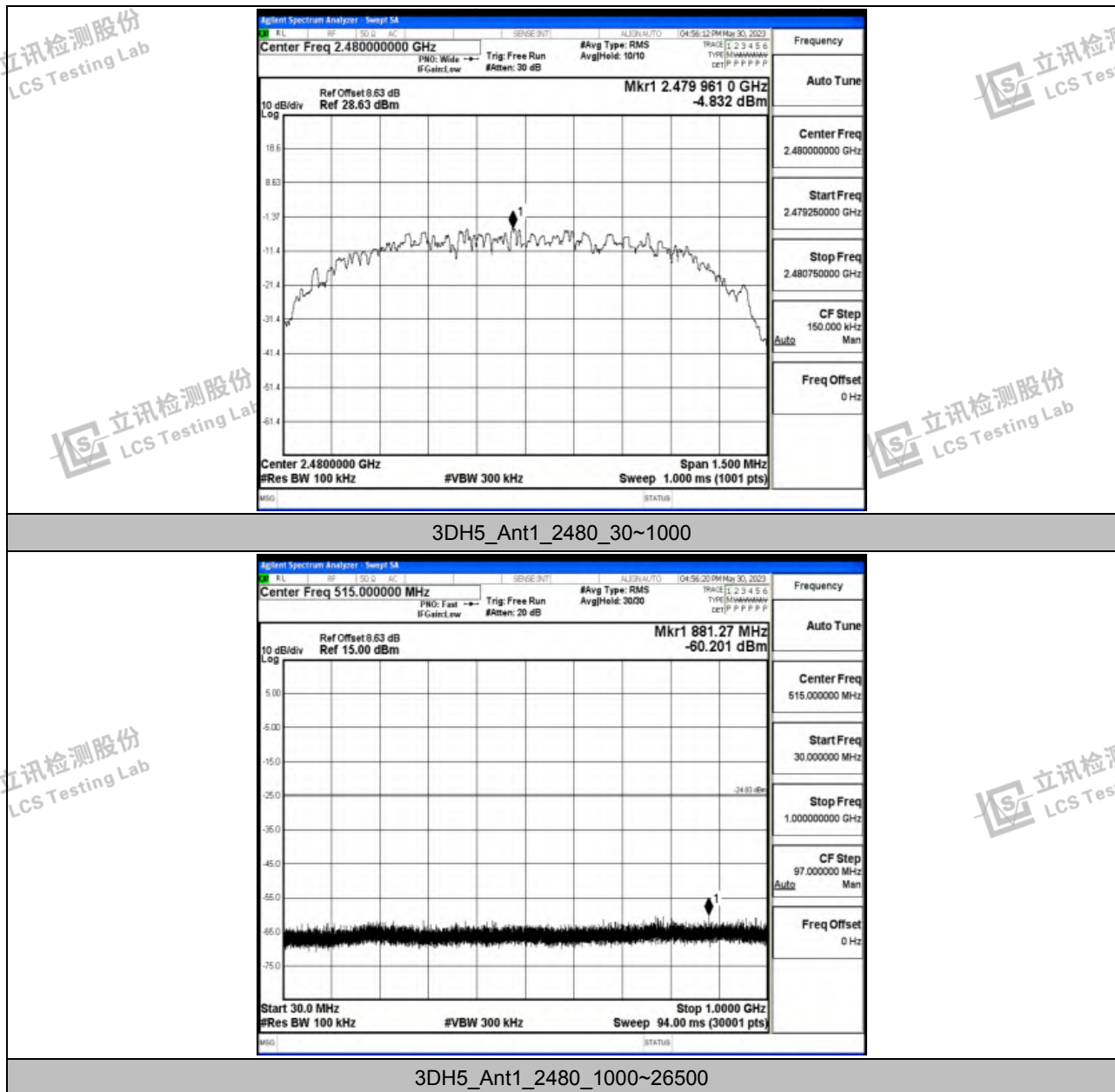


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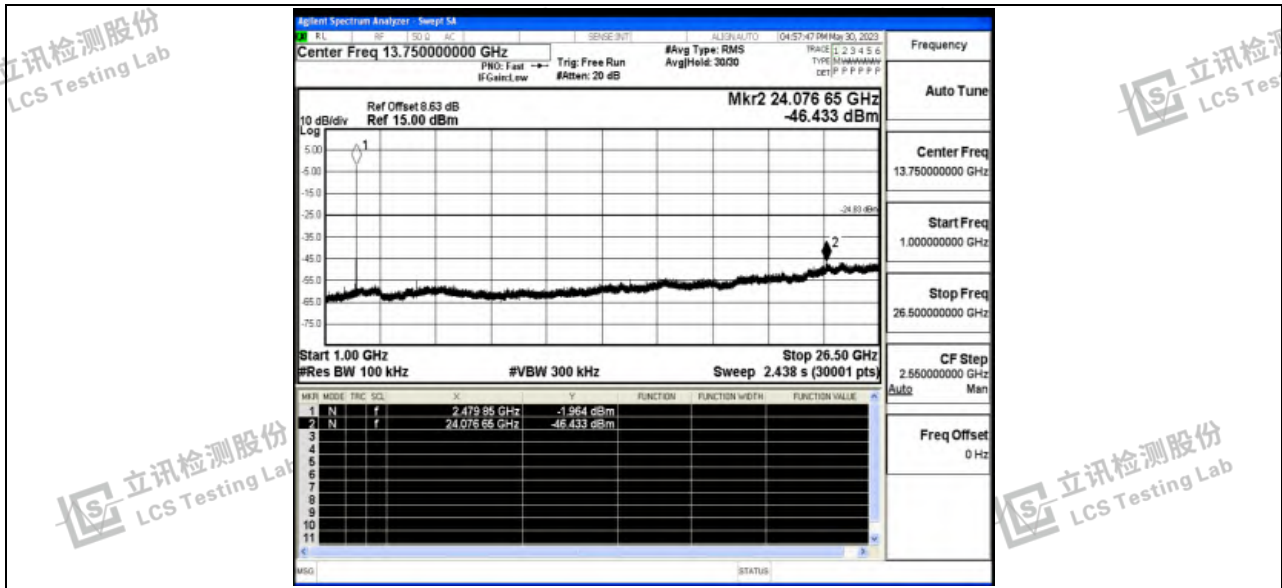


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Gain (dBi)	E (dBuV/m)	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.07	2	49.19	≤54	PASS
				AV	2378.435	-47.59	2	49.67	≤54	PASS
				AV	2390.000	-47.85	2	49.41	≤54	PASS
				Peak	2310.000	-42.99	2	54.27	≤74	PASS
				Peak	2316.905	-38.04	2	59.22	≤74	PASS
				Peak	2390.000	-45.05	2	52.21	≤74	PASS
		High	2480	AV	2483.500	-47.15	2	50.11	≤54	PASS
				AV	2499.280	-47.01	2	50.25	≤54	PASS
				AV	2500.000	-47.17	2	50.09	≤54	PASS
				Peak	2483.500	-41.97	2	55.29	≤74	PASS
				Peak	2484.640	-39.03	2	58.23	≤74	PASS
				Peak	2500.000	-41.64	2	55.62	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.2	2	57.06	≤74	PASS
				Peak	2328.560	-37.29	2	59.97	≤74	PASS
				Peak	2390.000	-40.73	2	56.53	≤74	PASS
		High	Hop_2480	Peak	2483.500	-38.97	2	58.29	≤74	PASS
				Peak	2489.760	-37.28	2	59.98	≤74	PASS
				Peak	2500.000	-38.85	2	58.41	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.27	2	48.99	≤54	PASS
				AV	2384.630	-47.72	2	49.54	≤54	PASS
				AV	2390.000	-47.88	2	49.38	≤54	PASS
				Peak	2310.000	-41.84	2	55.42	≤74	PASS
				Peak	2338.850	-38.58	2	58.68	≤74	PASS
				Peak	2390.000	-43.03	2	54.23	≤74	PASS
		High	2480	AV	2483.500	-47.31	2	49.95	≤54	PASS
				AV	2496.640	-47.2	2	50.06	≤54	PASS
				AV	2500.000	-47.39	2	49.87	≤54	PASS
				Peak	2483.500	-43.09	2	54.17	≤74	PASS
				Peak	2491.280	-38.91	2	58.35	≤74	PASS
				Peak	2500.000	-41.18	2	56.08	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-39.96	2	57.3	≤74	PASS
				Peak	2388.830	-37.49	2	59.77	≤74	PASS
				Peak	2390.000	-40.81	2	56.45	≤74	PASS
		High	Hop_2480	Peak	2483.500	-39.45	2	57.81	≤74	PASS
				Peak	2490.960	-36.78	2	60.48	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2500.000	-39.16	2	58.1	≤74	PASS
				AV	2310.000	-48.09	2	49.17	≤54	PASS
				AV	2384.840	-47.64	2	49.62	≤54	PASS
				AV	2390.000	-47.78	2	49.48	≤54	PASS
				Peak	2310.000	-45.03	2	52.23	≤74	PASS
				Peak	2358.905	-37.89	2	59.37	≤74	PASS
				Peak	2390.000	-42.04	2	55.22	≤74	PASS
		High	2480	AV	2483.500	-47.27	2	49.99	≤54	PASS
				AV	2496.960	-47.2	2	50.06	≤54	PASS
				AV	2500.000	-47.38	2	49.88	≤54	PASS
				Peak	2483.500	-43.24	2	54.02	≤74	PASS
				Peak	2496.320	-38.61	2	58.65	≤74	PASS
				Peak	2500.000	-40.87	2	56.39	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-40.66	2	56.6	≤74	PASS
				Peak	2389.355	-37.26	2	60	≤74	PASS
				Peak	2390.000	-39.06	2	58.2	≤74	PASS
		High	Hop_248 0	Peak	2483.500	-39.53	2	57.73	≤74	PASS
				Peak	2487.840	-36.96	2	60.3	≤74	PASS
				Peak	2500.000	-40.35	2	56.91	≤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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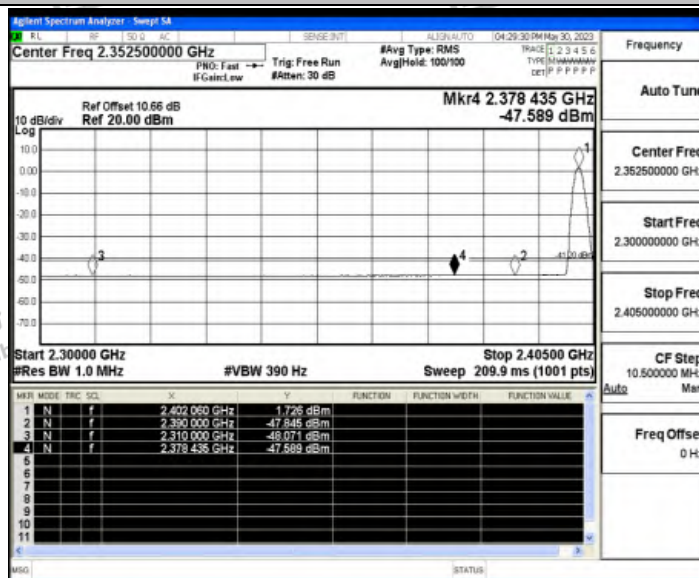
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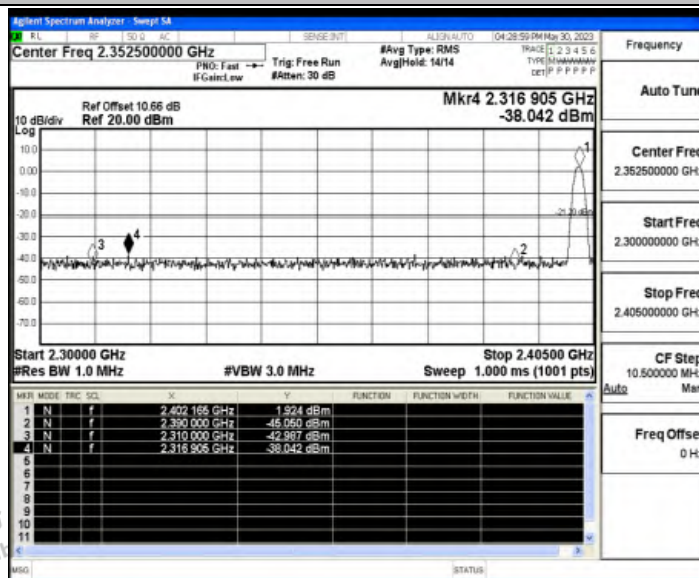


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

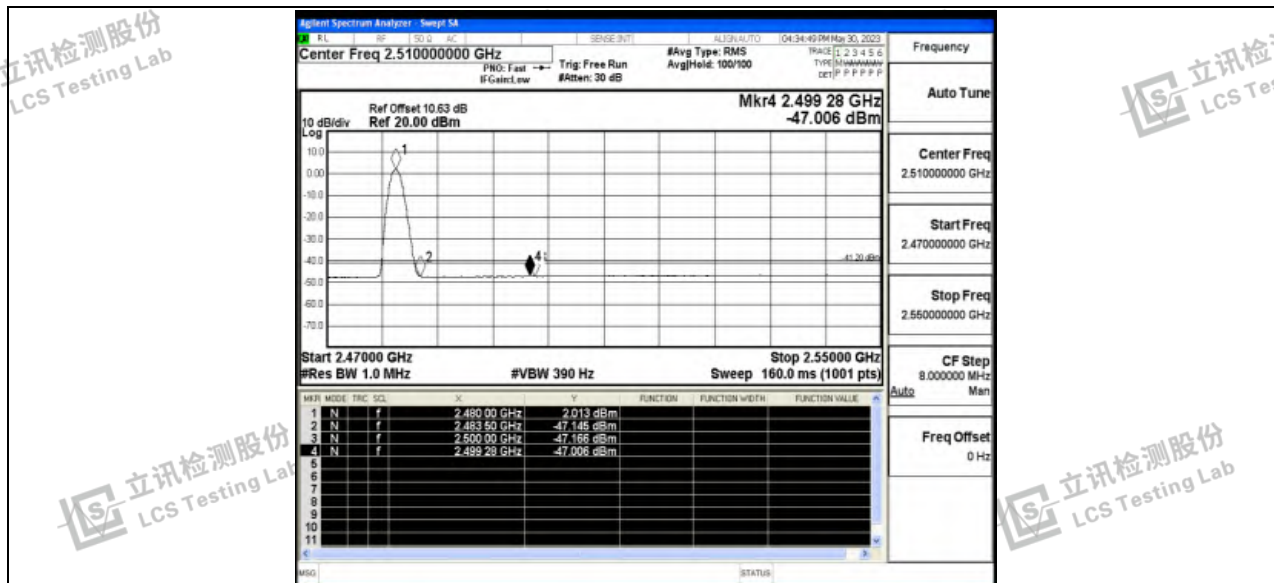


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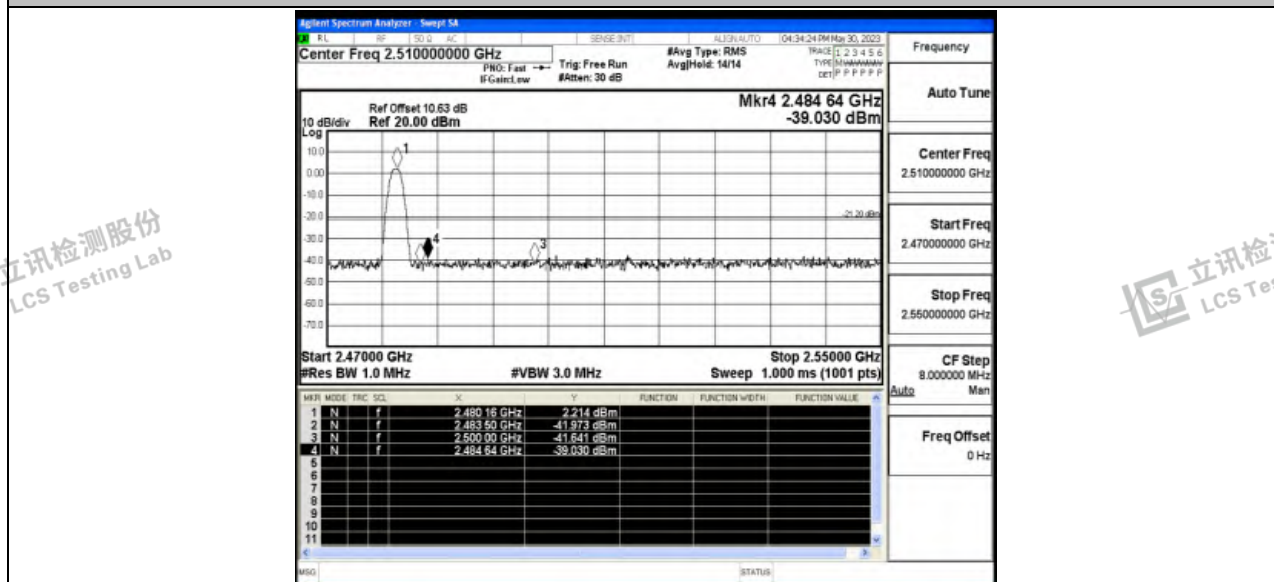
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak



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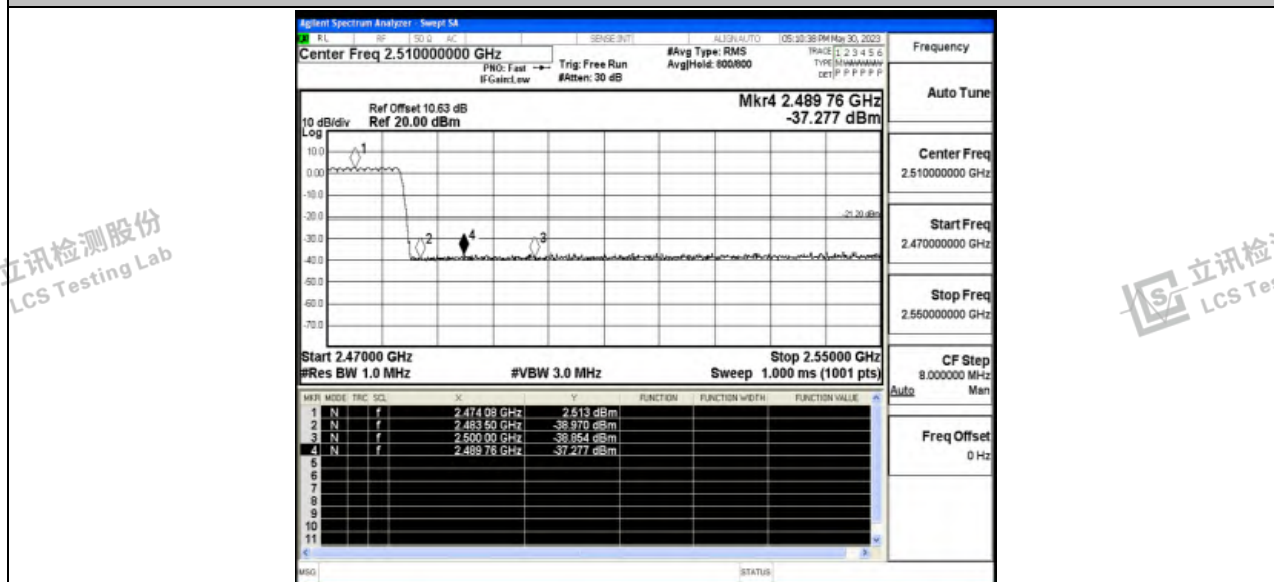
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

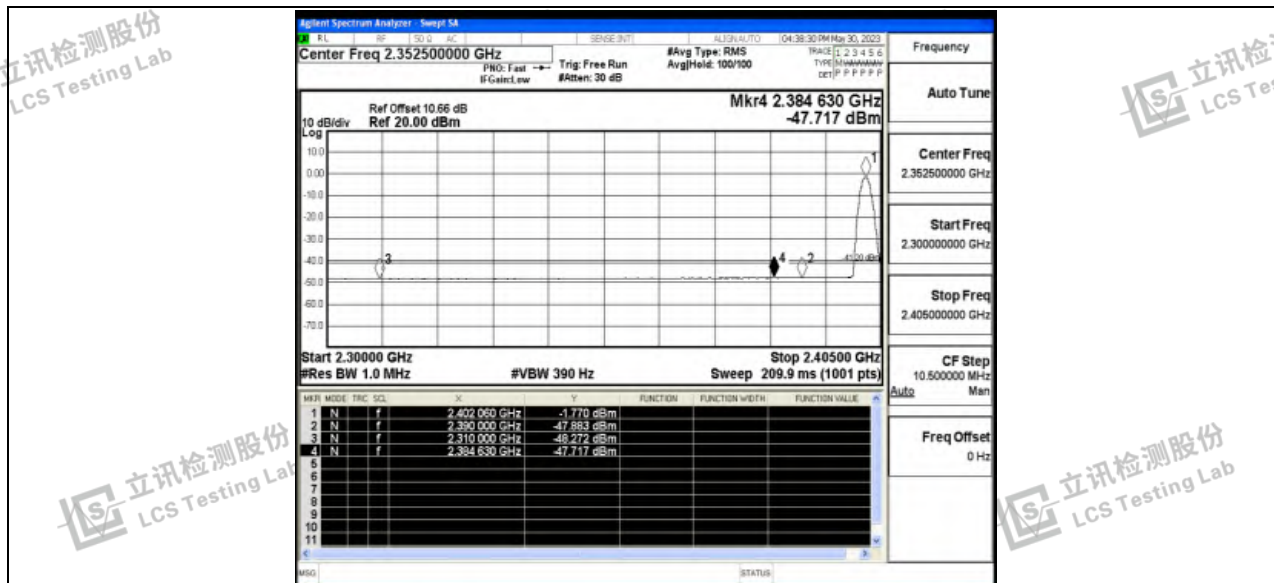


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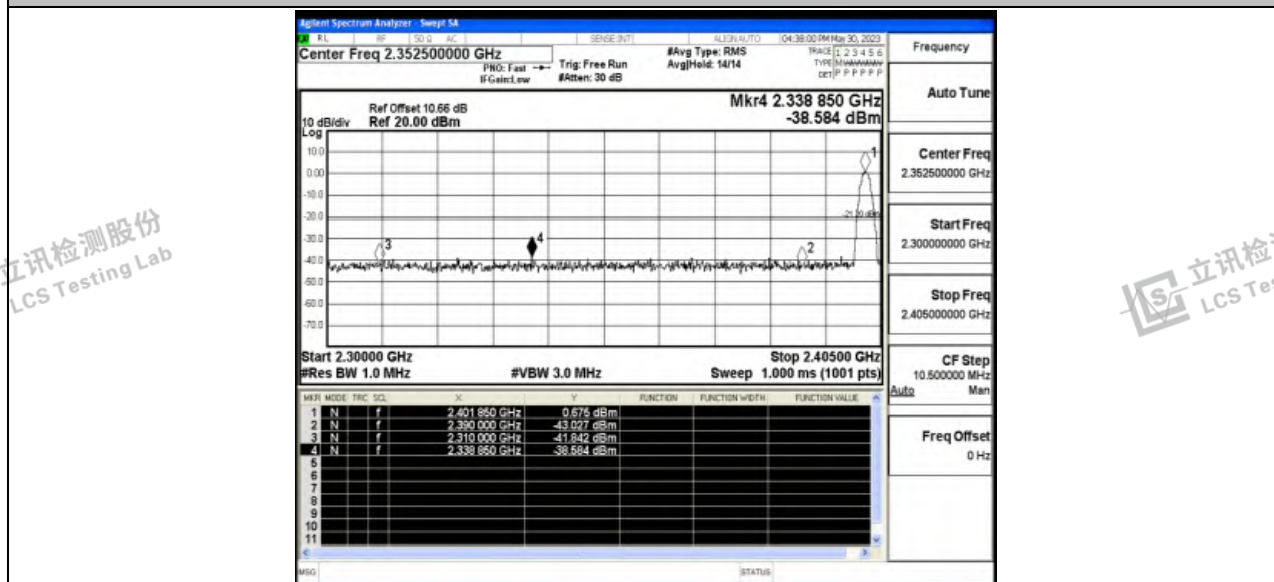
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

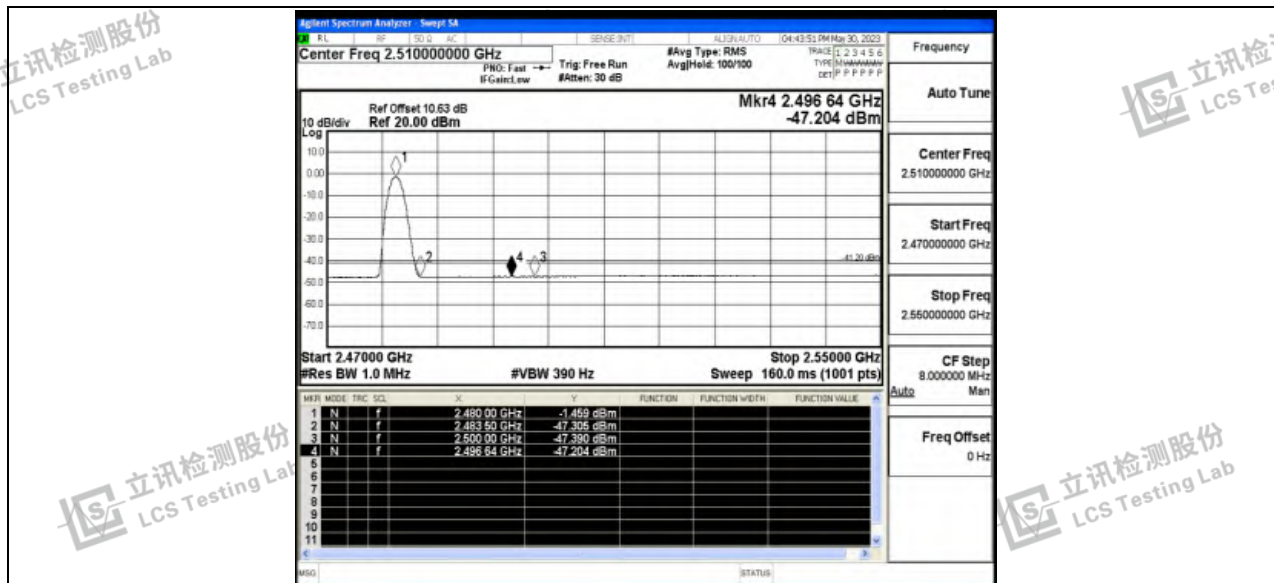


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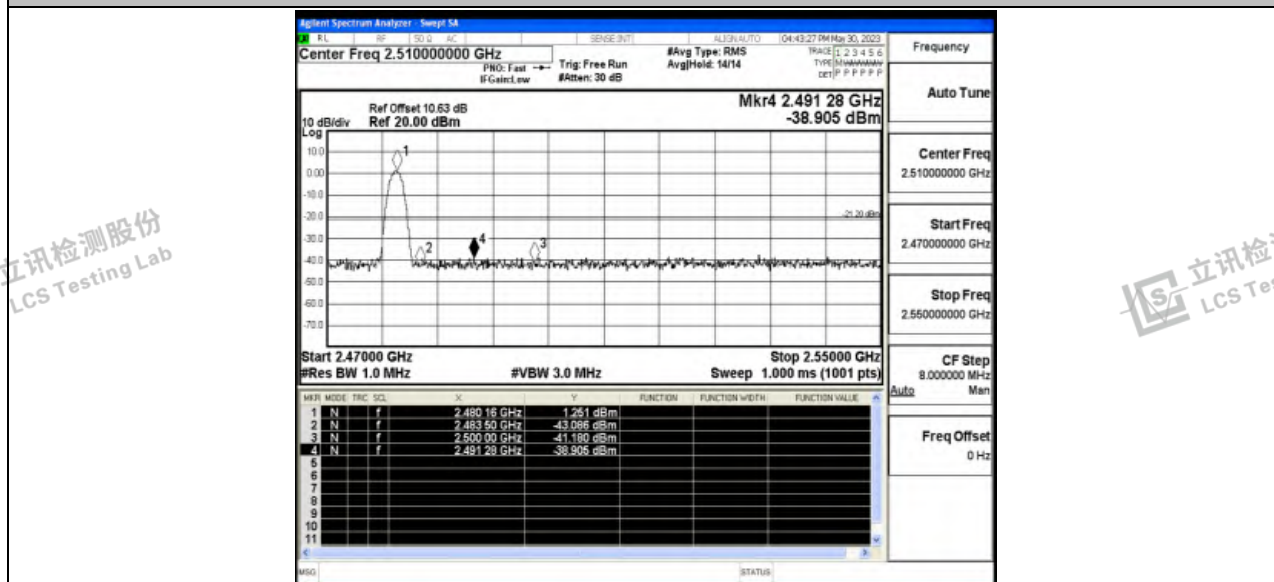
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

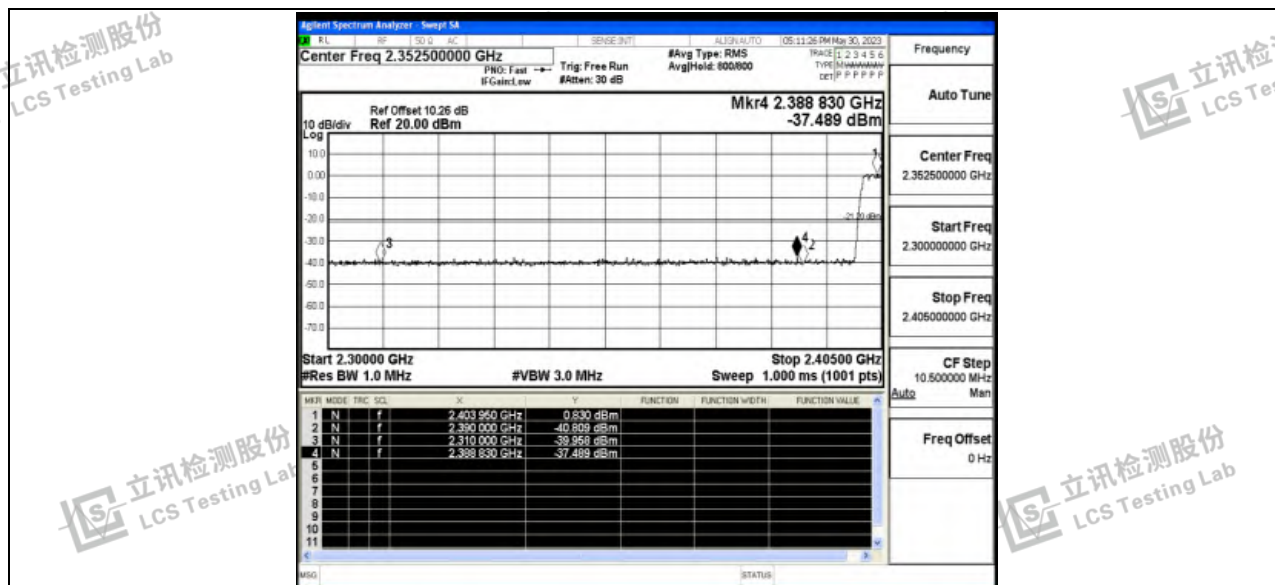


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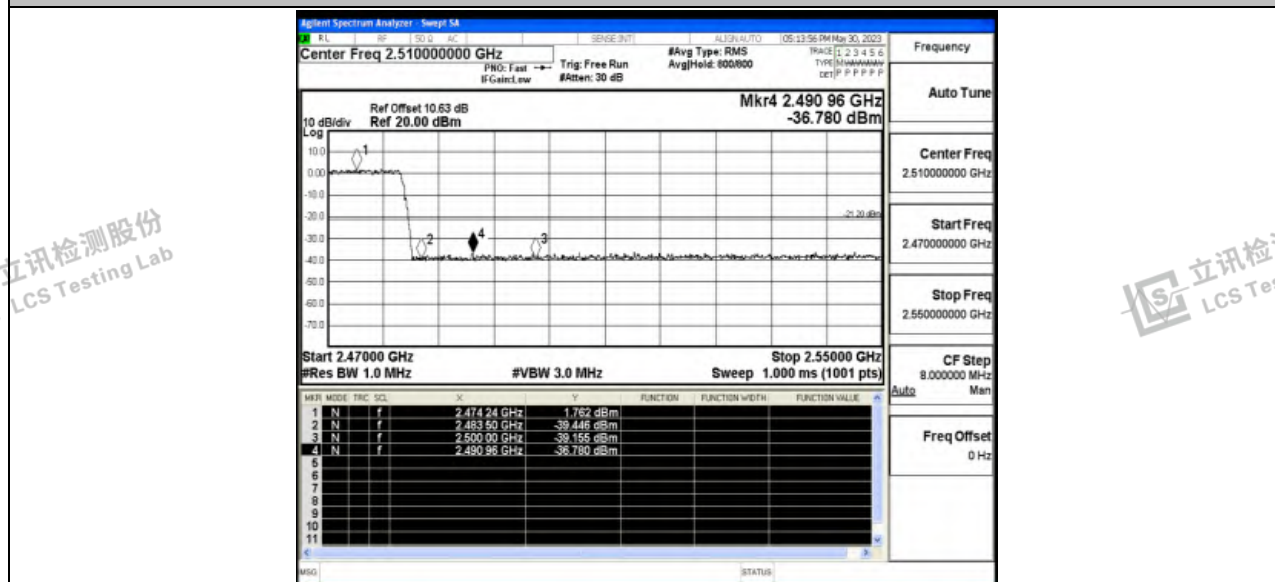
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

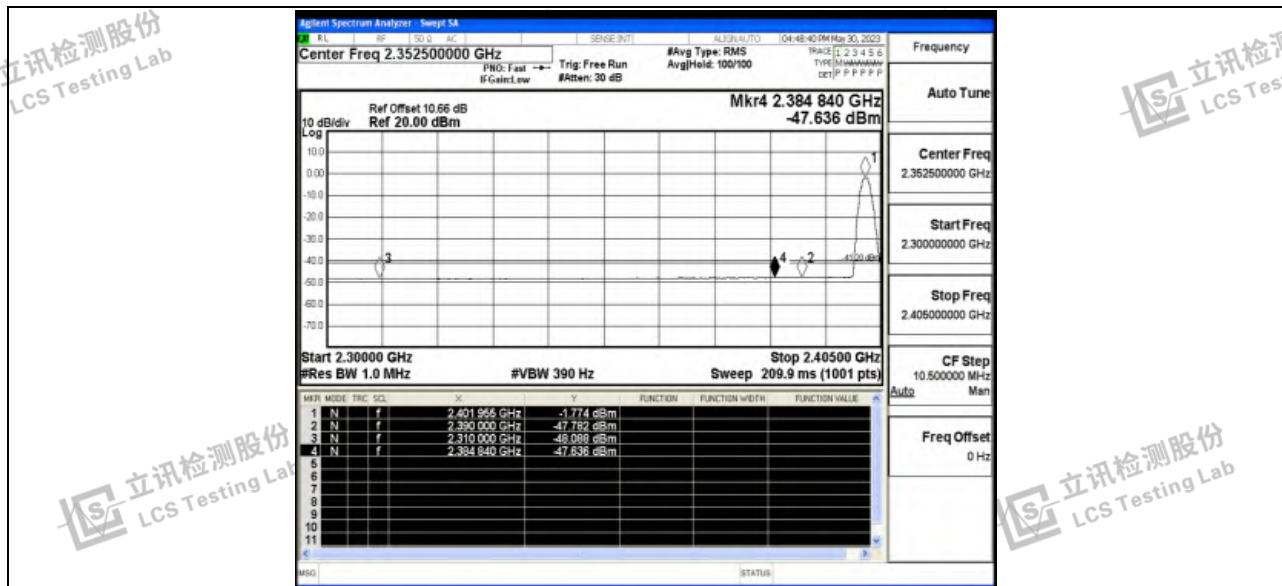


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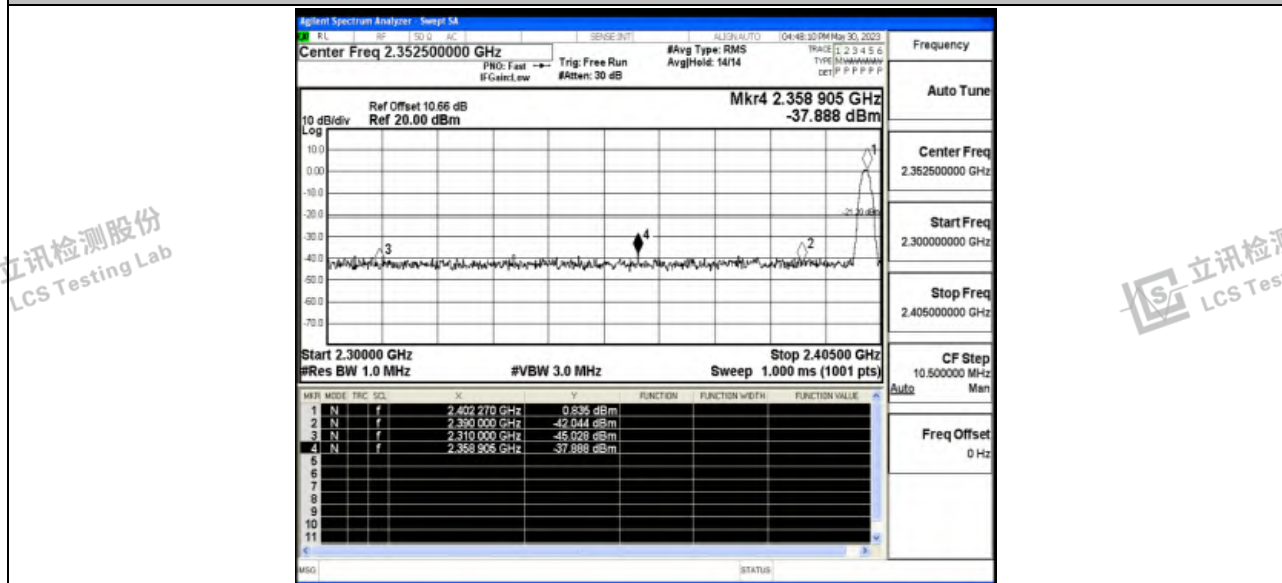
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

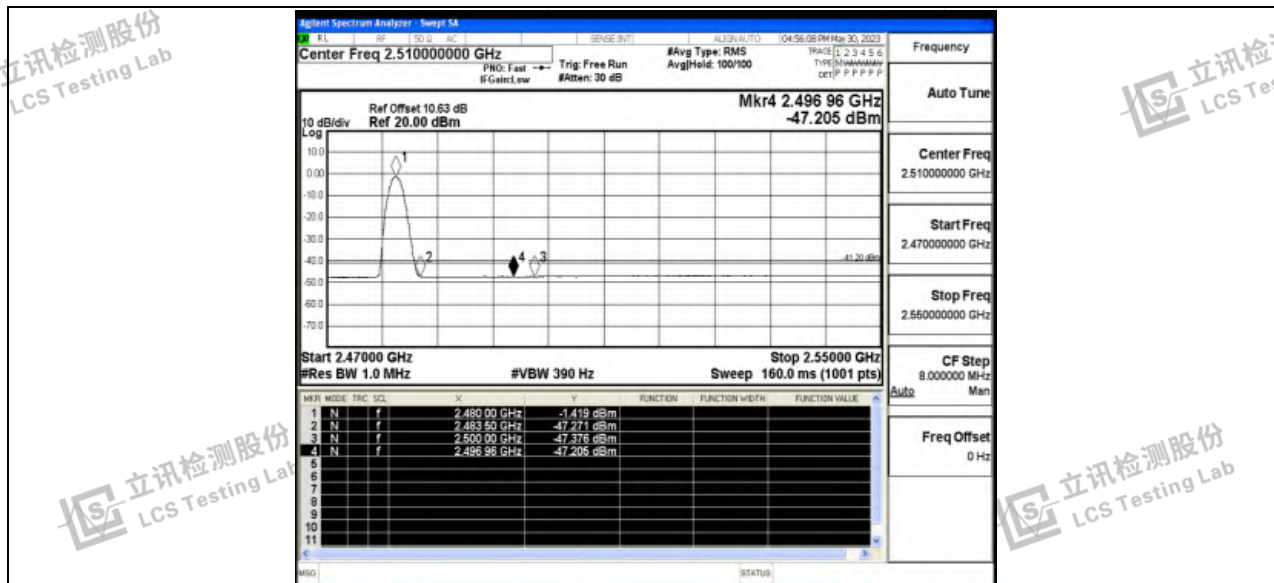


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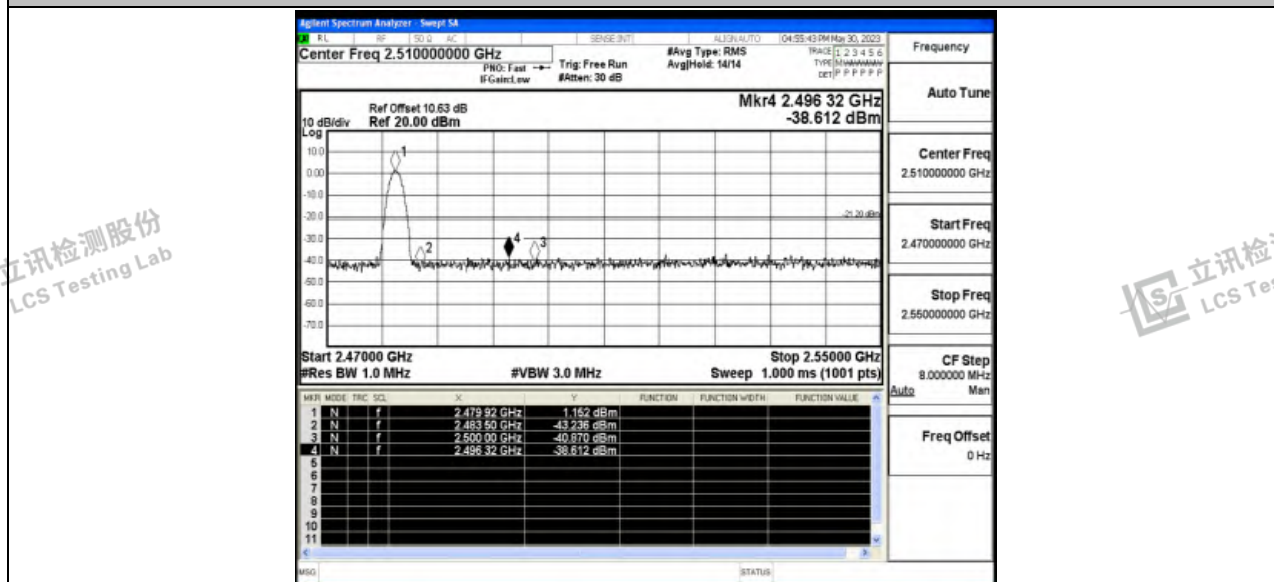
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

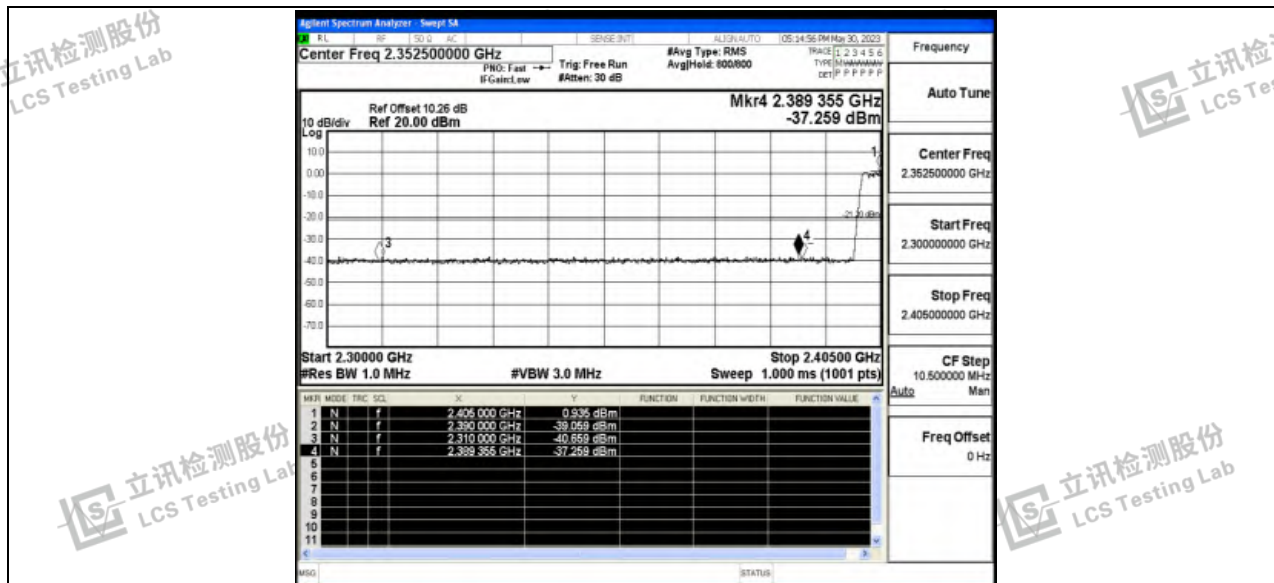


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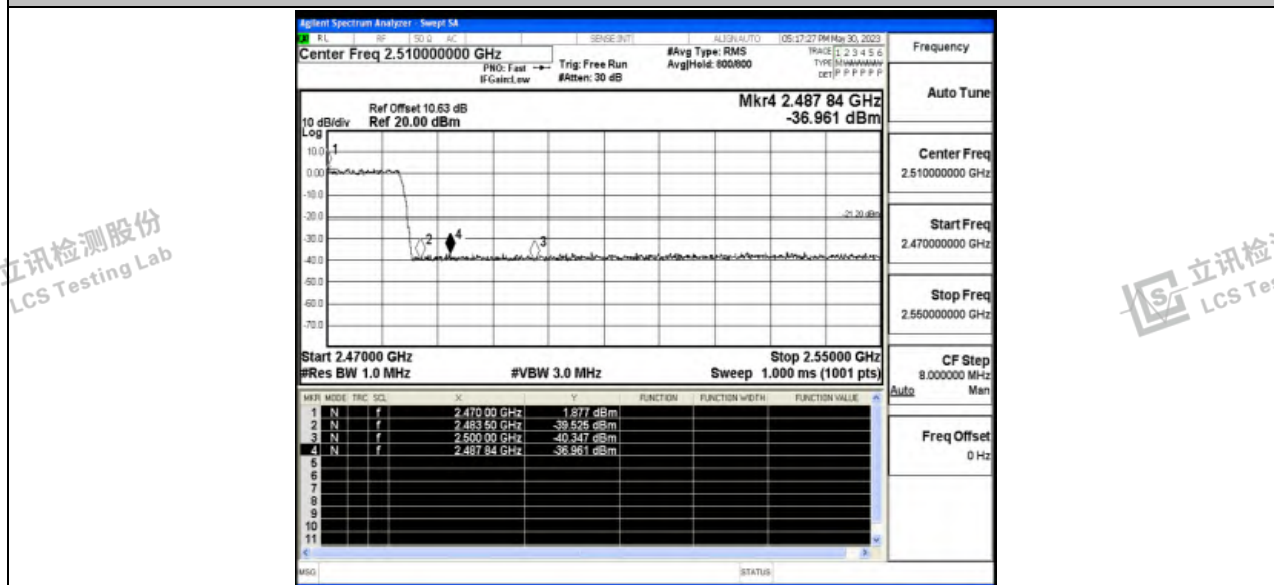
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3DH5_Ant1_High_Hop_2480_Peak



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