



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name:GNSS Receiver

Test Model: Q300

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Eason Zhou
Supervised by:	Nick Peng





A.1 20dB Emission Bandwidth

Test Result

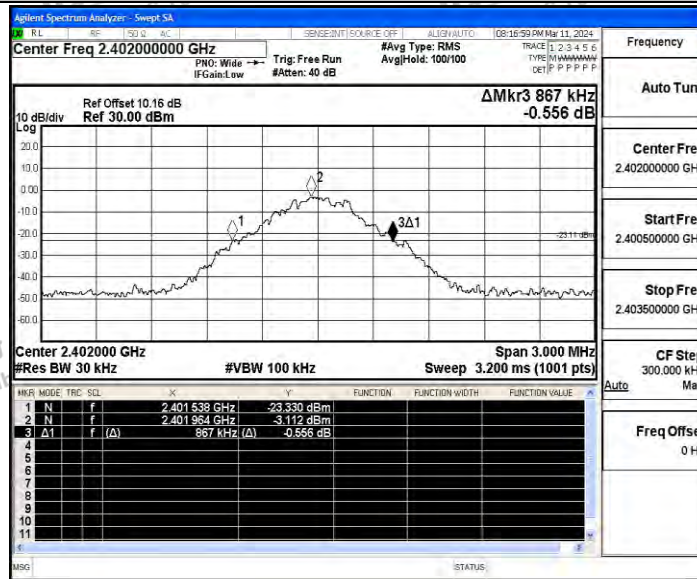
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant	2402	0.867	2401.538	2402.405	---	---
		2441	0.912	2440.559	2441.471	---	---
		2480	0.885	2479.568	2480.453	---	---
2DH5	Ant	2402	1.299	2401.352	2402.651	---	---
		2441	1.290	2440.355	2441.645	---	---
		2480	1.281	2479.358	2480.639	---	---
3DH5	Ant	2402	1.290	2401.355	2402.645	---	---
		2441	1.311	2440.334	2441.645	---	---
		2480	1.278	2479.349	2480.627	---	---



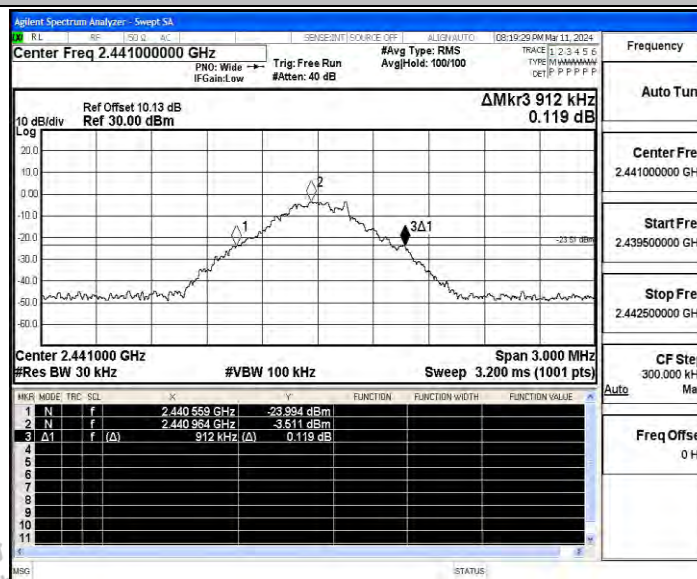


Test Graphs

DH5_Ant_2402



DH5_Ant_2441



DH5_Ant_2480

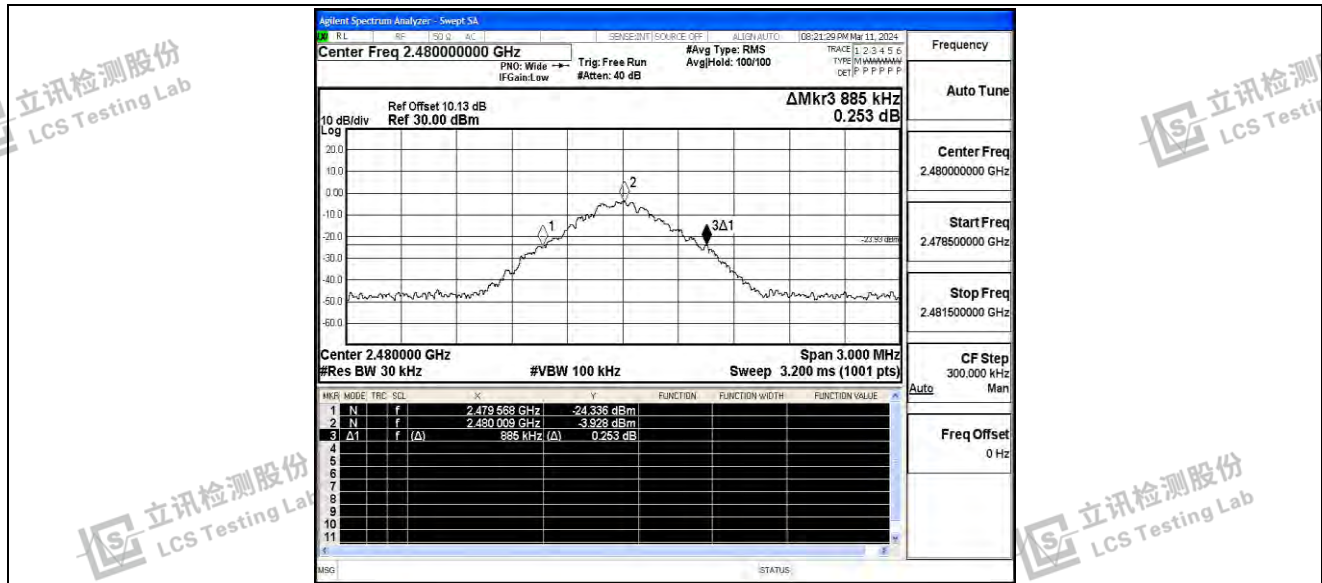


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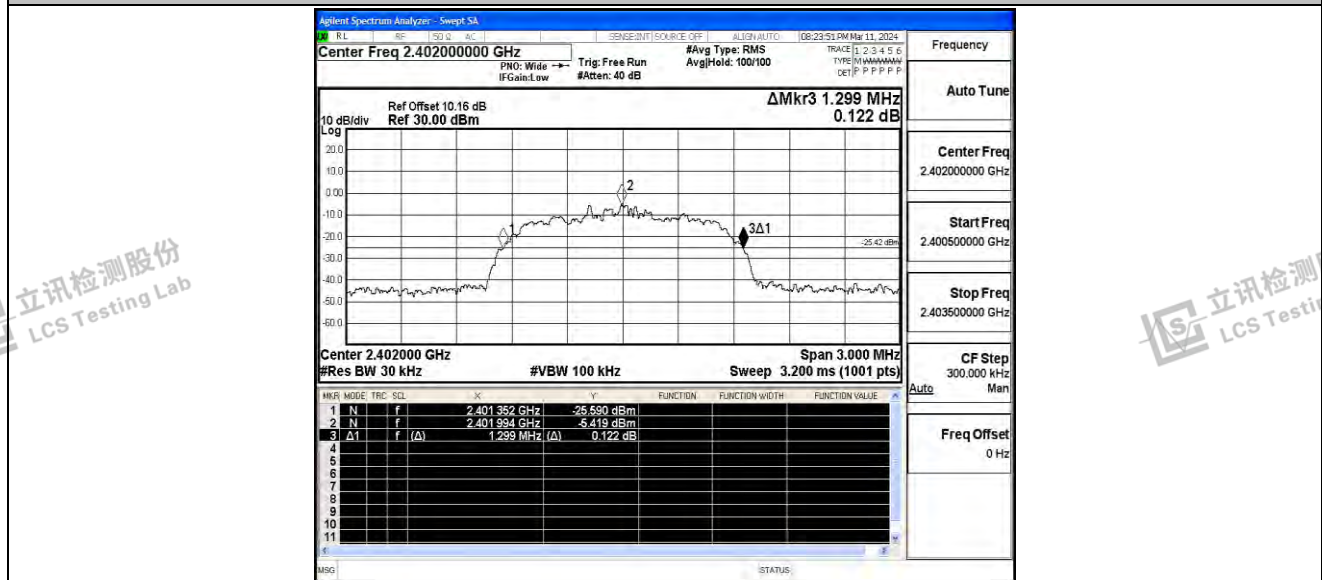
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

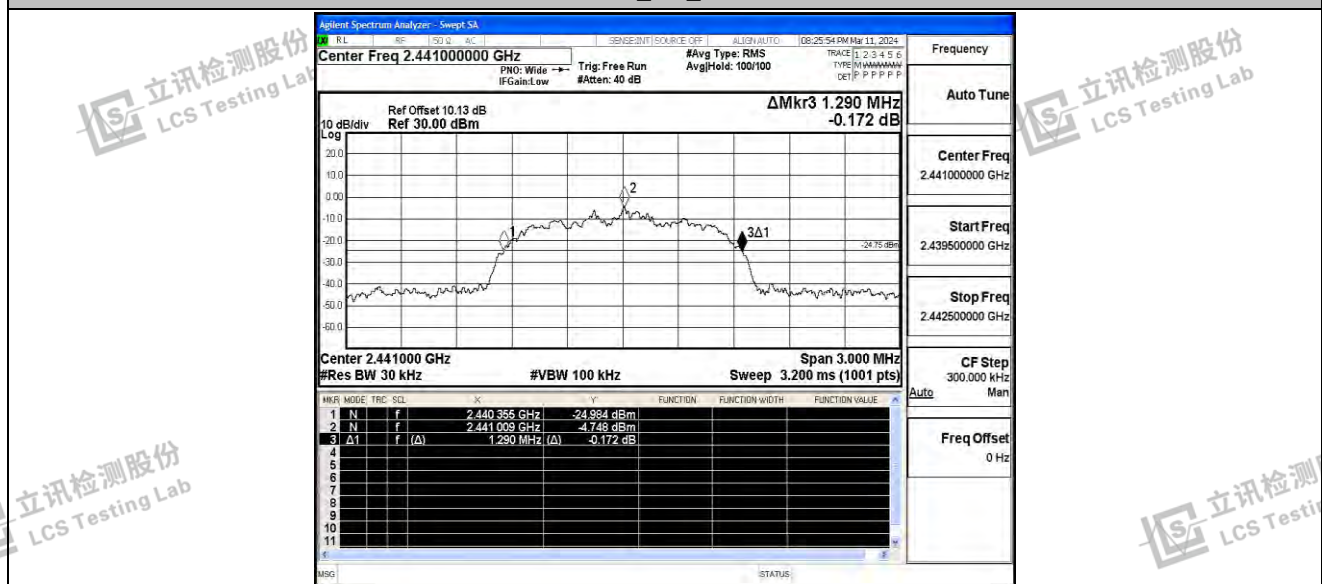
Scan code to check authenticity



2DH5_Ant_2402



2DH5_Ant_2441



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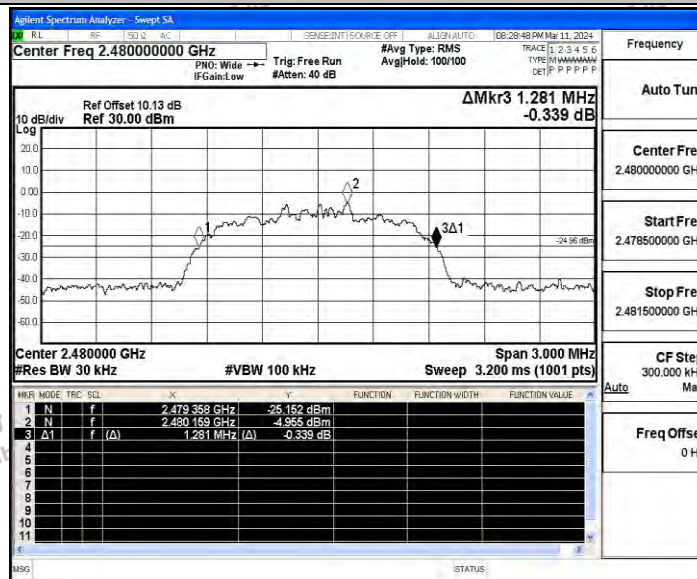
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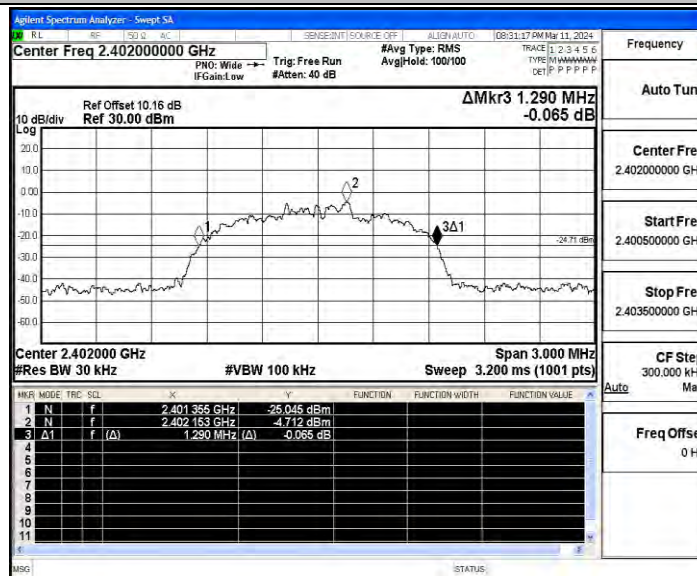
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2DH5_Ant_2480



3DH5_Ant_2402



3DH5_Ant_2441

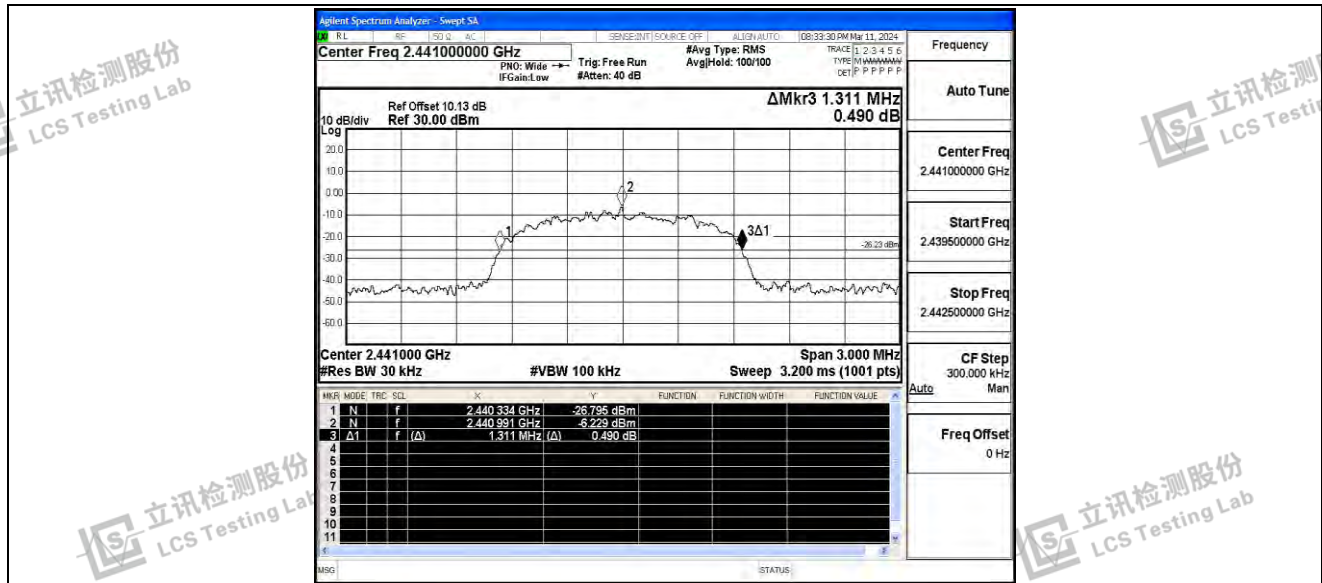


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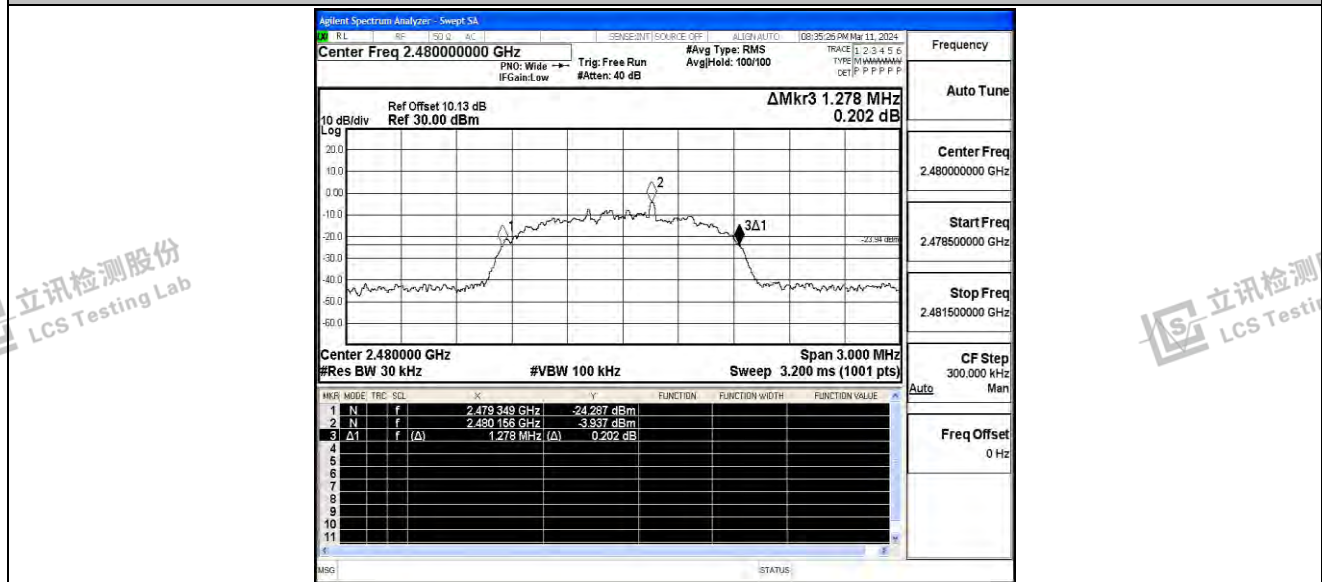
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3DH5_Ant_2480



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A.2 Maximum Peak conducted output power

Test Result Peak

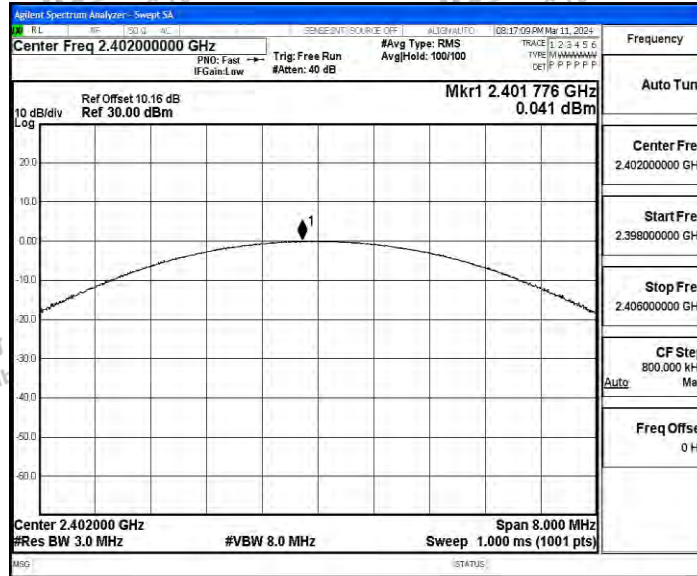
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant	2402	0.04	≤20.97	PASS
		2441	-0.41	≤20.97	PASS
		2480	-0.87	≤20.97	PASS
2DH5	Ant	2402	-0.01	≤20.97	PASS
		2441	-0.42	≤20.97	PASS
		2480	-0.84	≤20.97	PASS
3DH5	Ant	2402	0.07	≤20.97	PASS
		2441	-0.35	≤20.97	PASS
		2480	-0.83	≤20.97	PASS



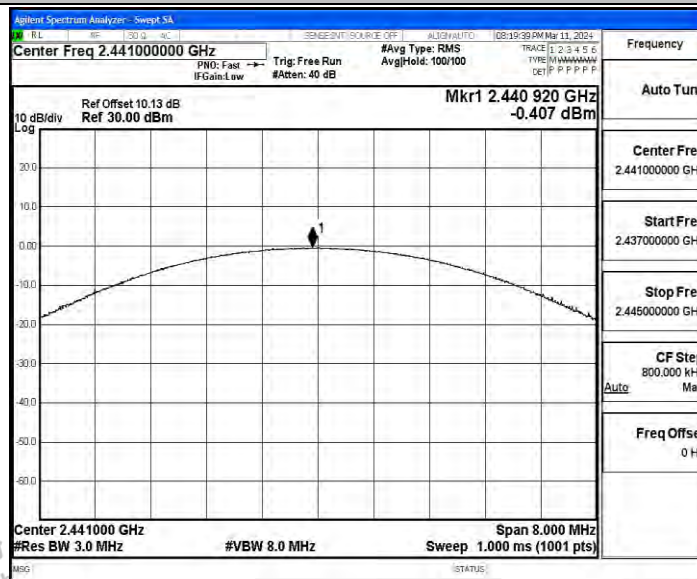


Test Graphs

DH5_Ant_2402



DH5_Ant_2441



DH5_Ant_2480

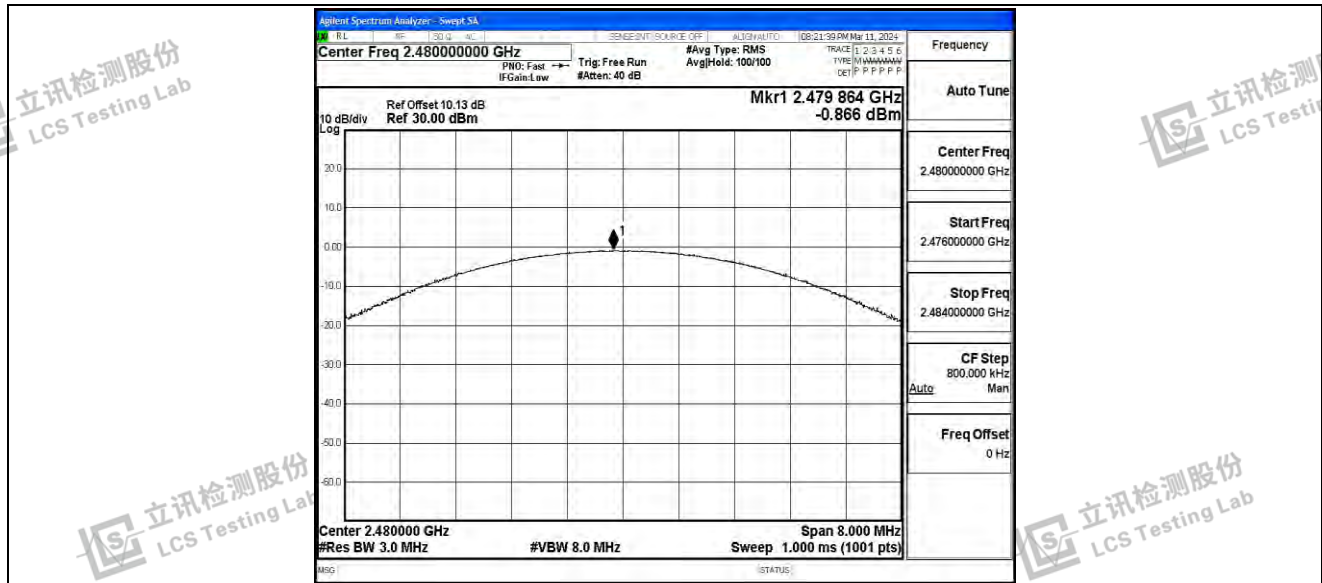


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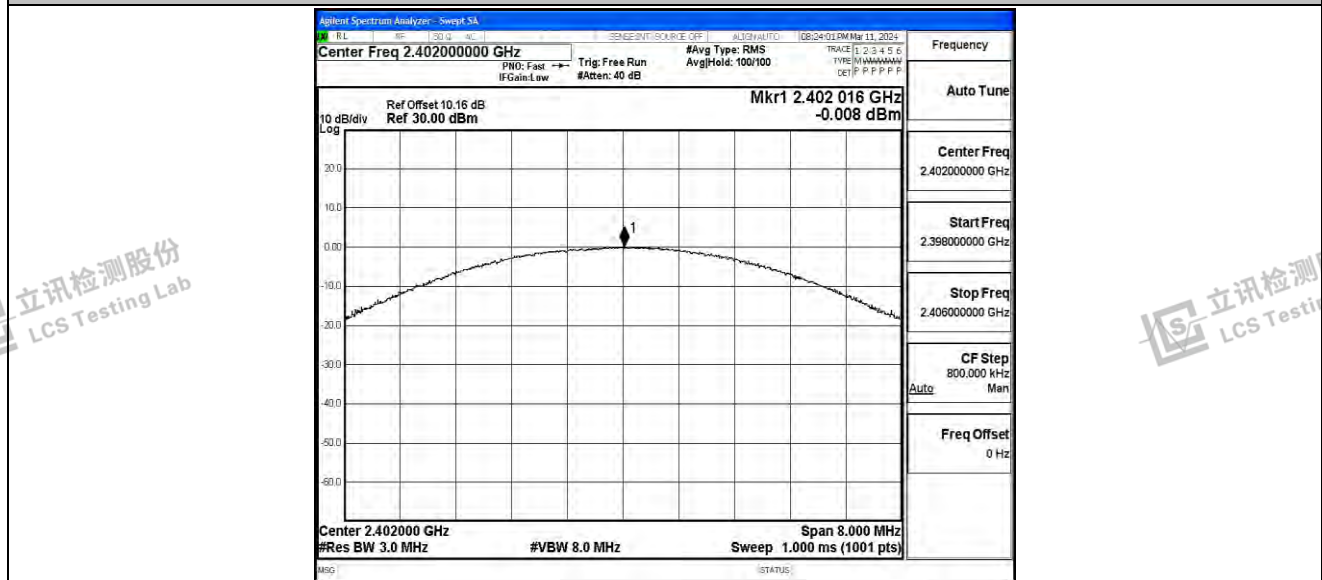
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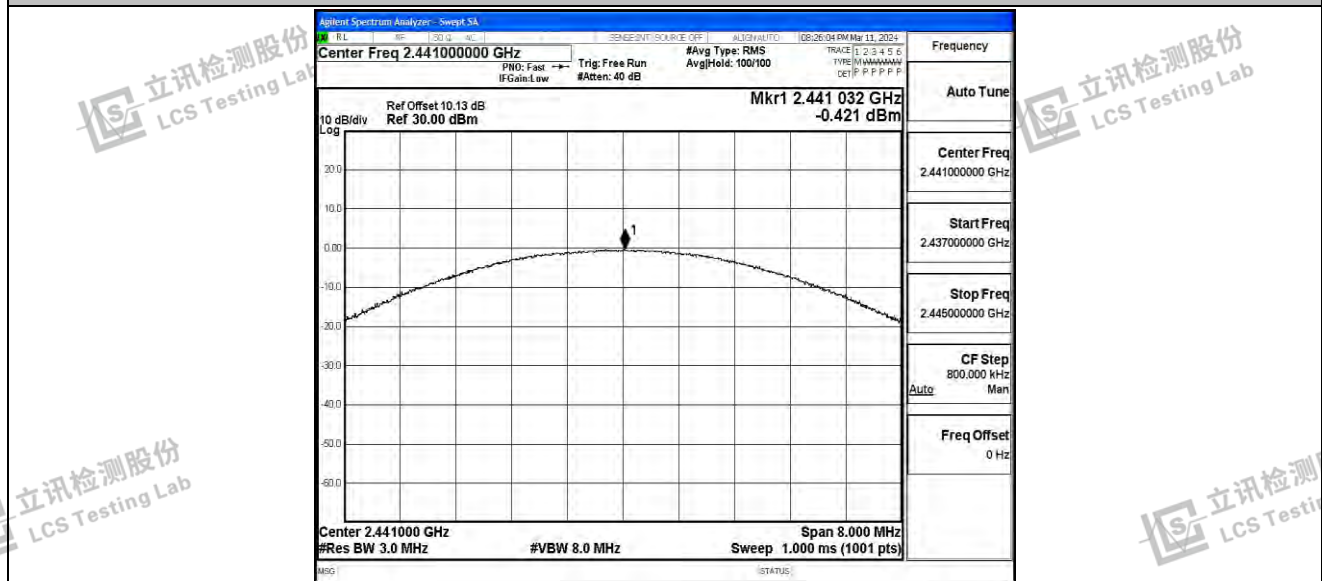
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2DH5_Ant_2402



2DH5_Ant_2441



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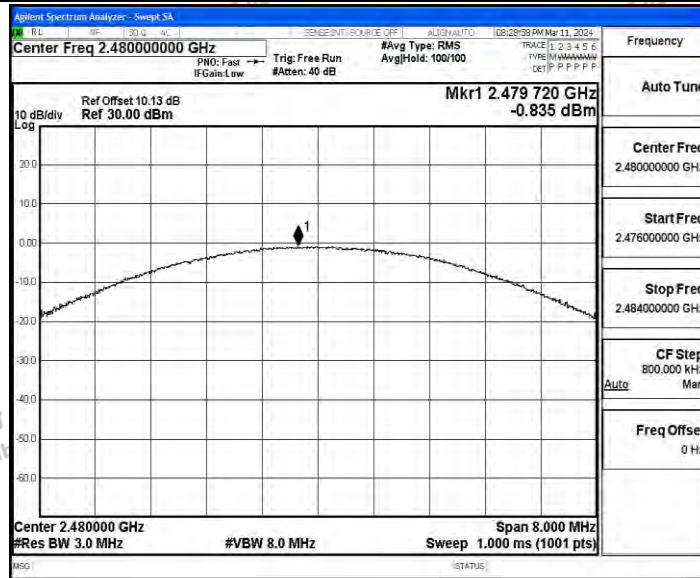
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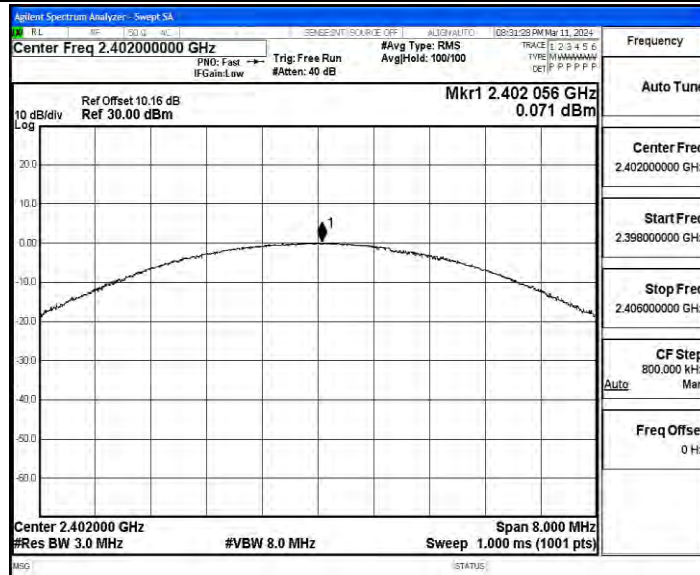
Scan code to check authenticity



2DH5_Ant_2480



3DH5_Ant_2402



3DH5_Ant_2441

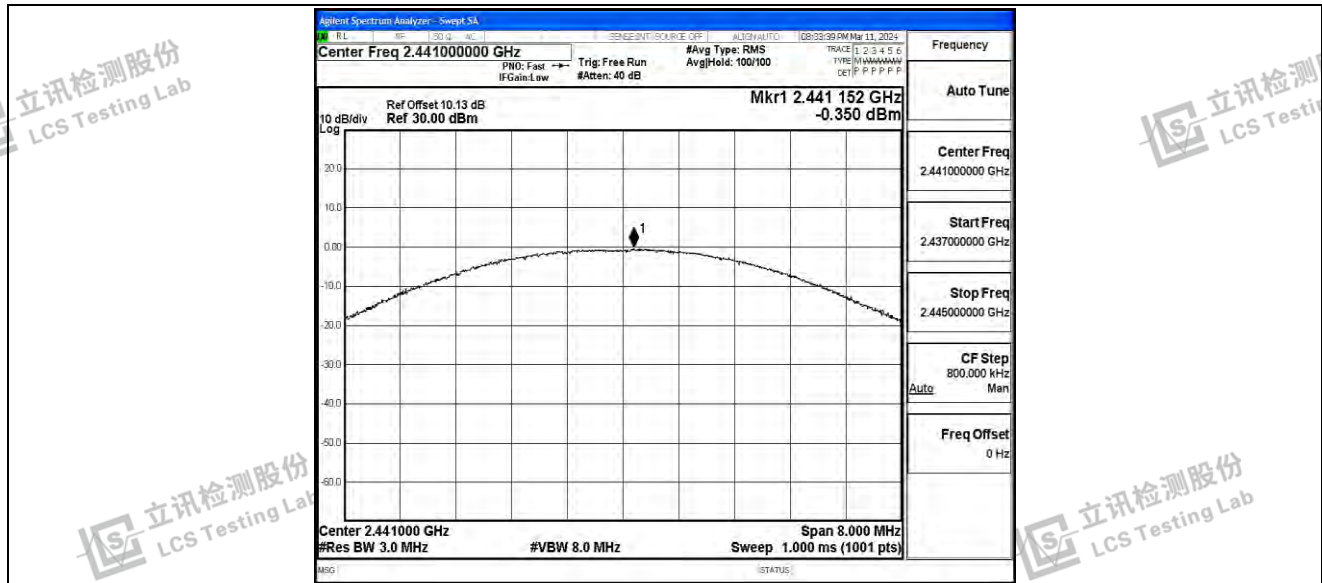


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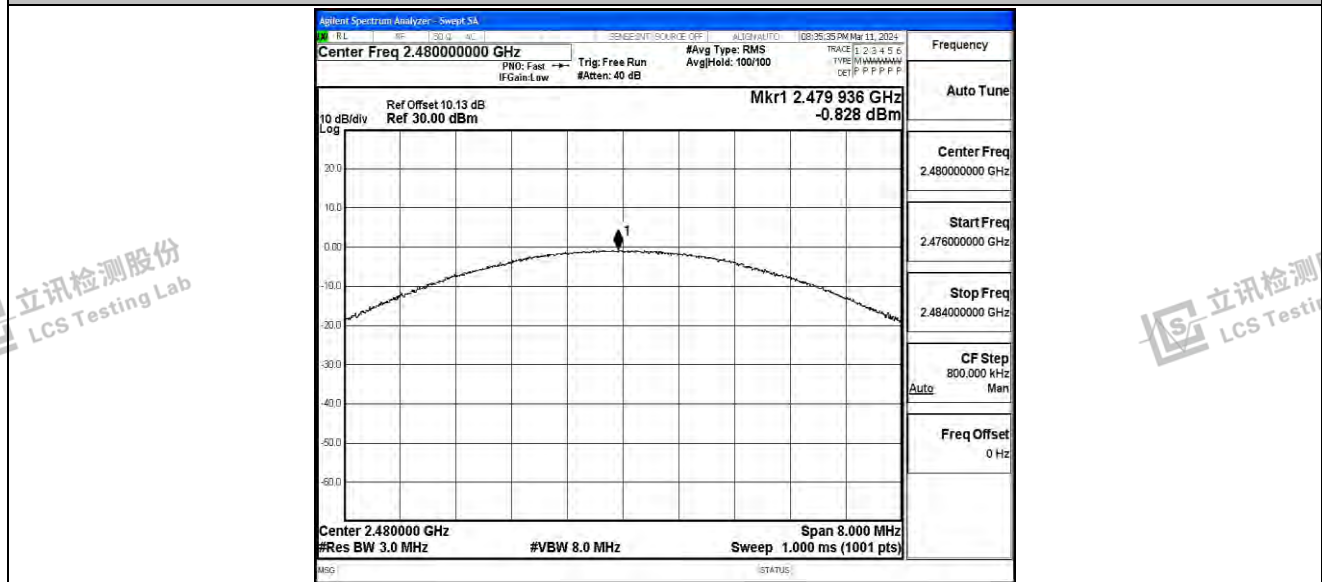
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant_2480



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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	1.186	≥ 0.608	PASS
2DH5	Ant	Hop	1.304	≥ 0.866	PASS
3DH5	Ant	Hop	0.928	≥ 0.874	PASS



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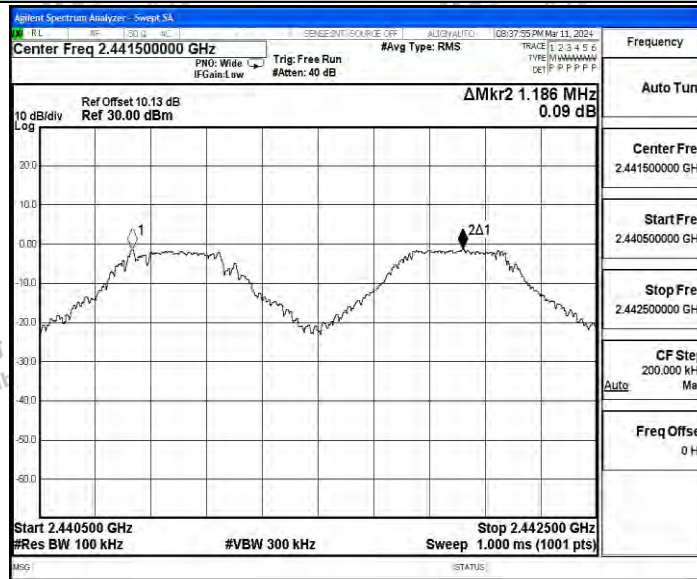
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

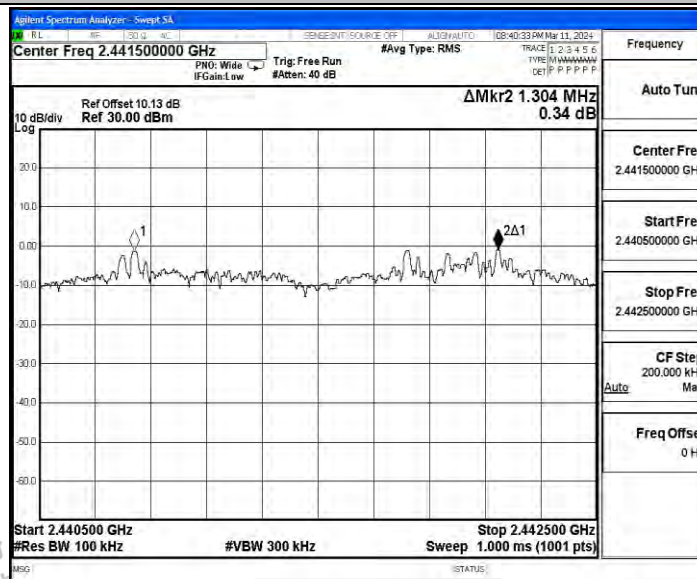


Test Graphs

DH5_Ant_Hop



2DH5_Ant_Hop



3DH5_Ant_Hop

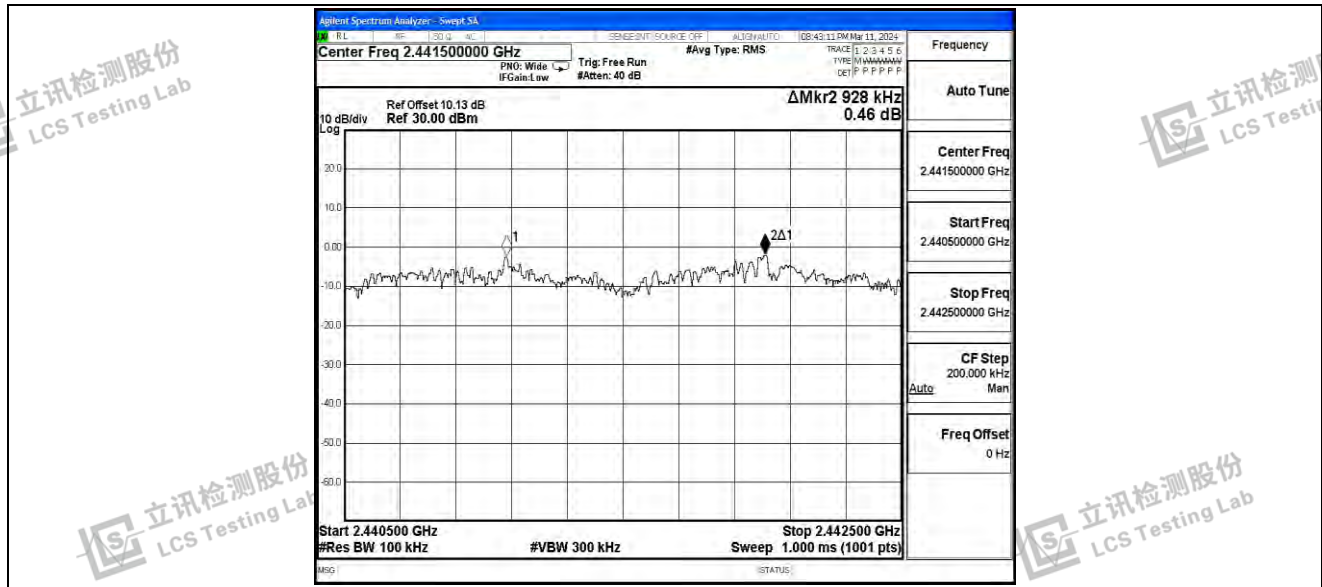


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A.4 Time of occupancy

Test Result

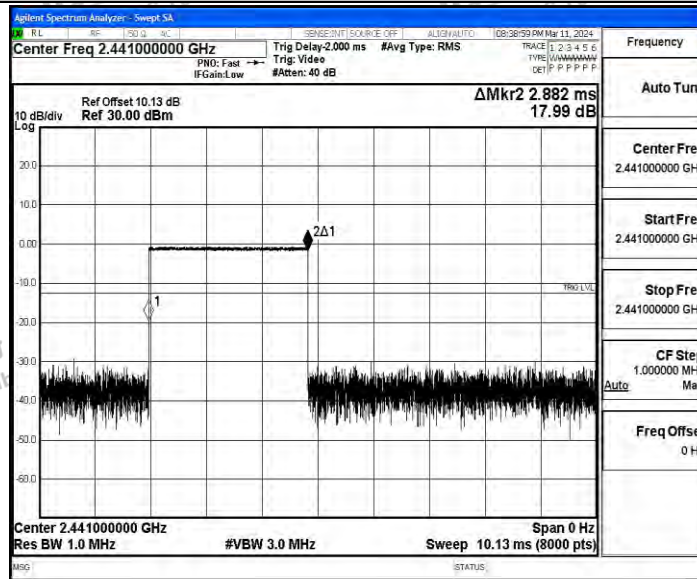
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant	Hop	2.882	106.67	0.307	≤0.4	PASS
2DH5	Ant	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant	Hop	2.885	106.67	0.308	≤0.4	PASS



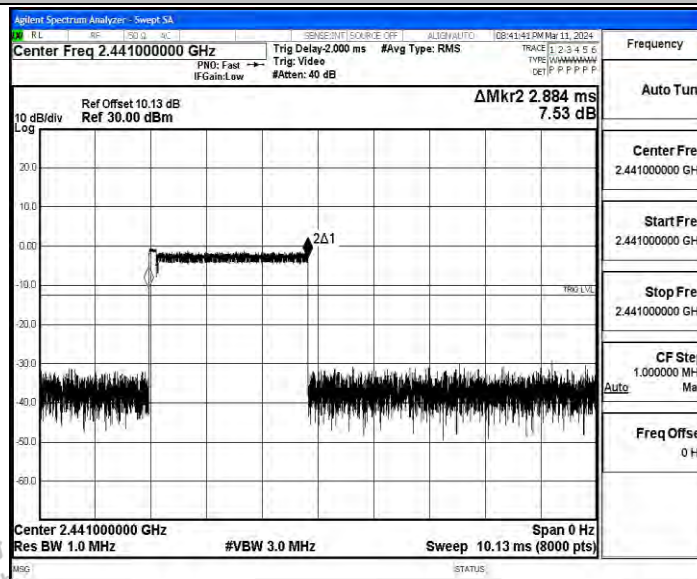


Test Graphs

DH5_Ant_Hop

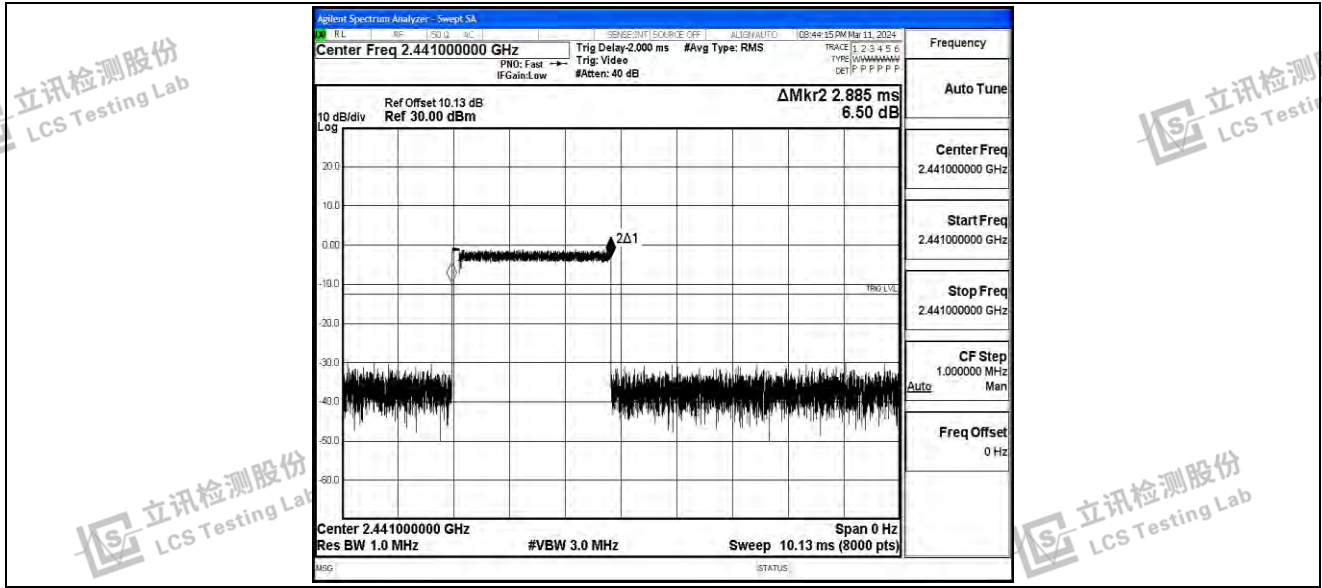


2DH5_Ant_Hop



3DH5_Ant_Hop







A.5 Number of hopping channels

Test Result

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



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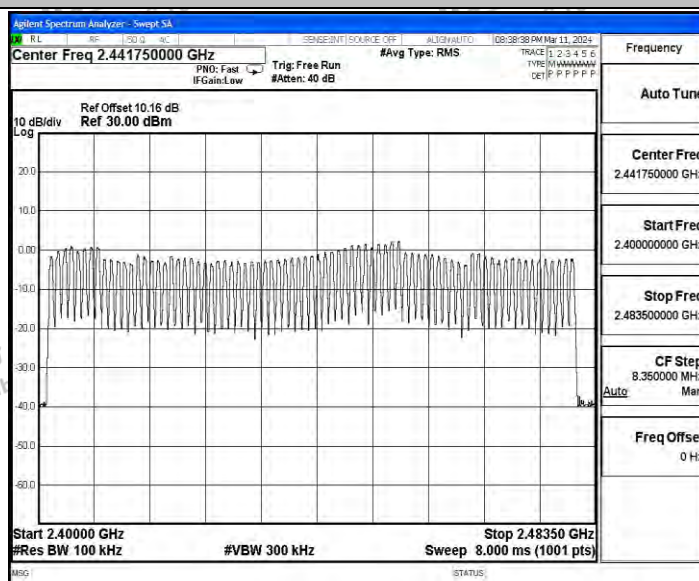
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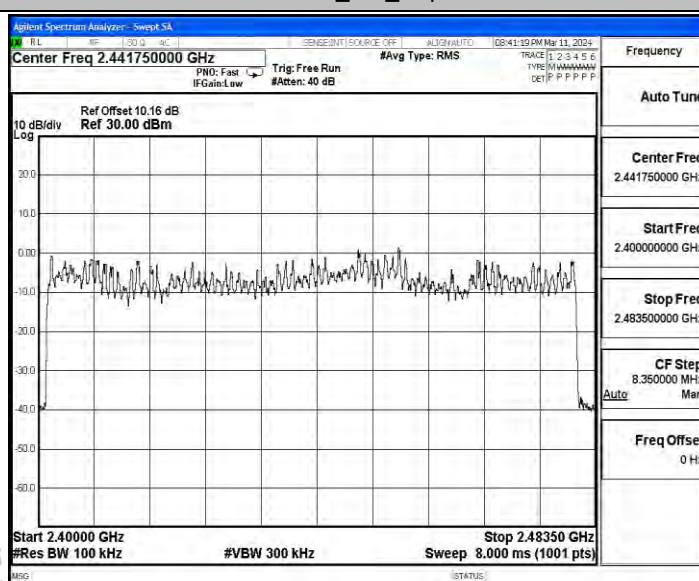
Scan code to check authenticity

Test Graphs

DH5 Ant Hop

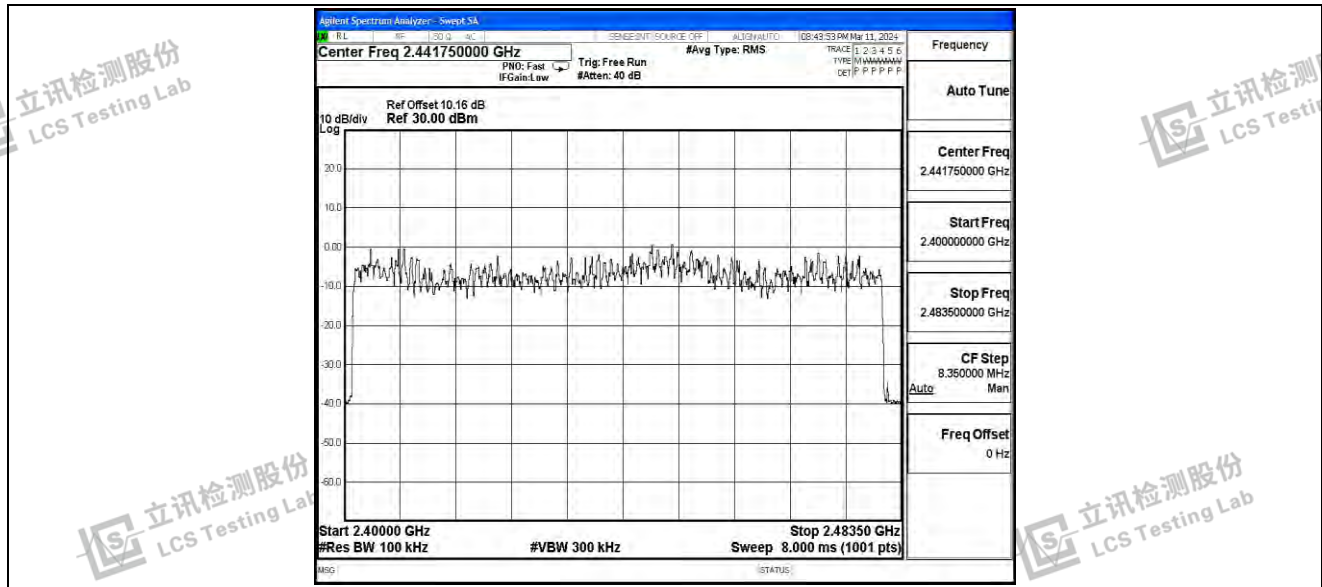


2DH5 Ant Hop



3DH5 Ant 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	Ant	Low	2402	-0.91	-47.96	≤ -20.91	PASS
		High	2480	-1.76	-48.21	≤ -21.76	PASS
		Low	Hop_2402	0.22	-48.21	≤ -19.78	PASS
		High	Hop_2480	-2.32	-47.29	≤ -22.32	PASS
2DH5	Ant	Low	2402	-0.96	-48.76	≤ -20.96	PASS
		High	2480	-1.70	-48.39	≤ -21.7	PASS
		Low	Hop_2402	-1.02	-47.77	≤ -21.02	PASS
		High	Hop_2480	-2.13	-46.85	≤ -22.13	PASS
3DH5	Ant	Low	2402	-1.48	-49.03	≤ -21.48	PASS
		High	2480	-1.60	-48.62	≤ -21.6	PASS
		Low	Hop_2402	-0.01	-48.36	≤ -20.01	PASS
		High	Hop_2480	-2.18	-46.94	≤ -22.18	PASS



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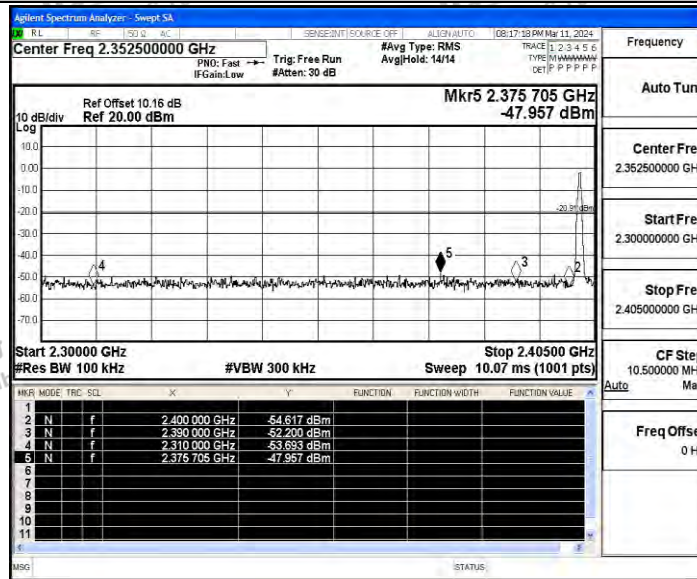
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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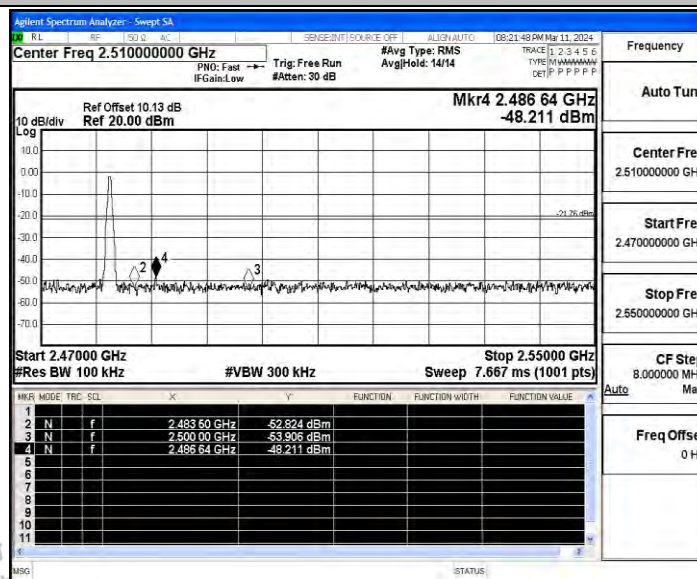


Test Graphs

DH5_Ant_Low_2402



DH5_Ant_High_2480



DH5_Ant_Low_Hop_2402

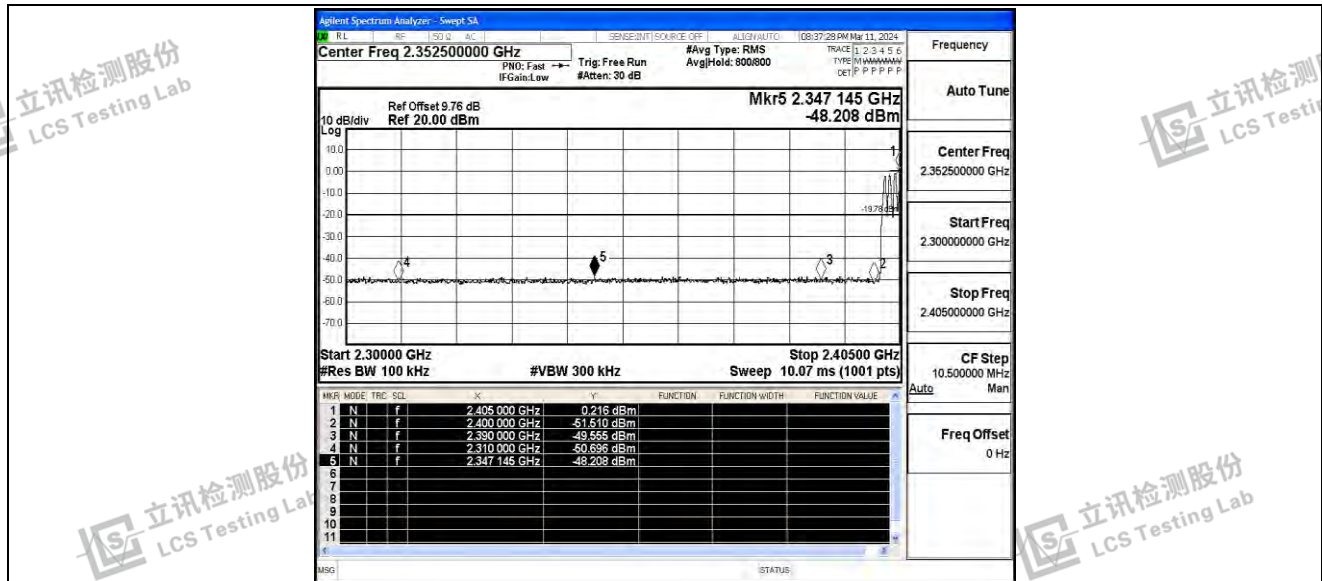


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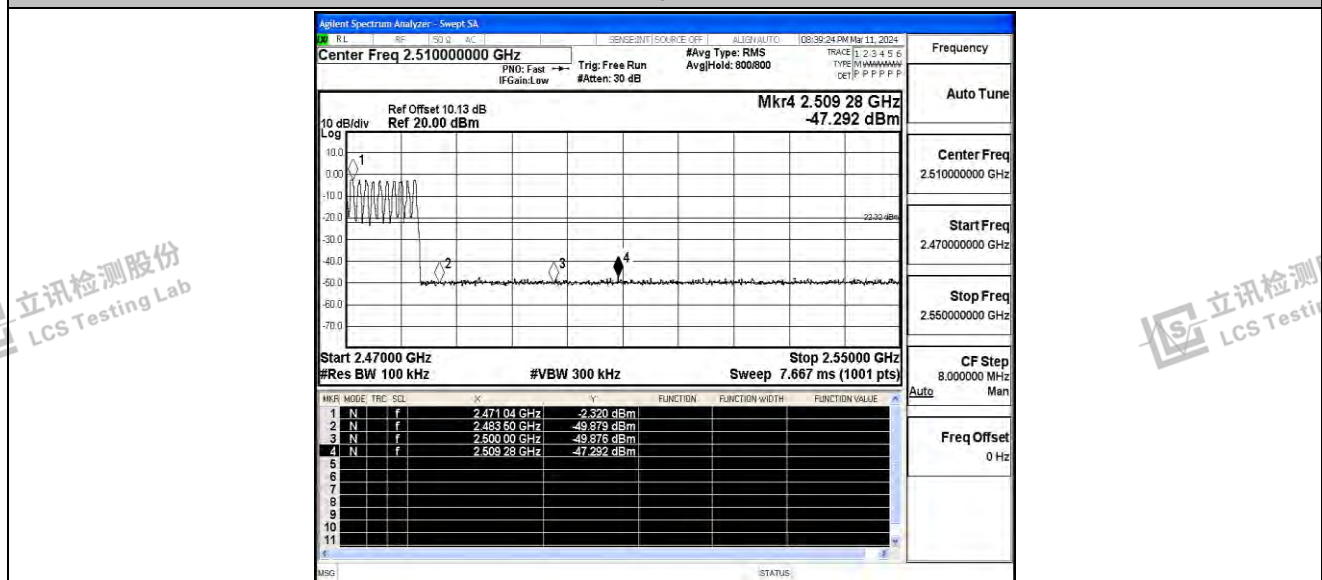
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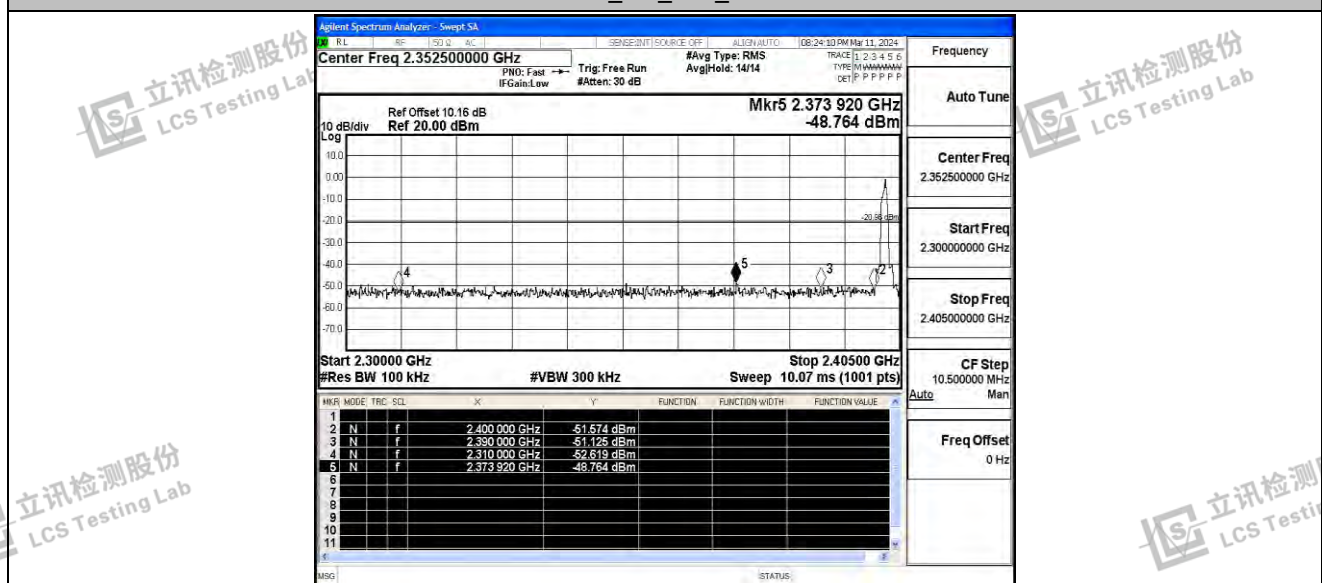
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DH5_Ant_High_Hop_2480



2DH5_Ant_Low_2402



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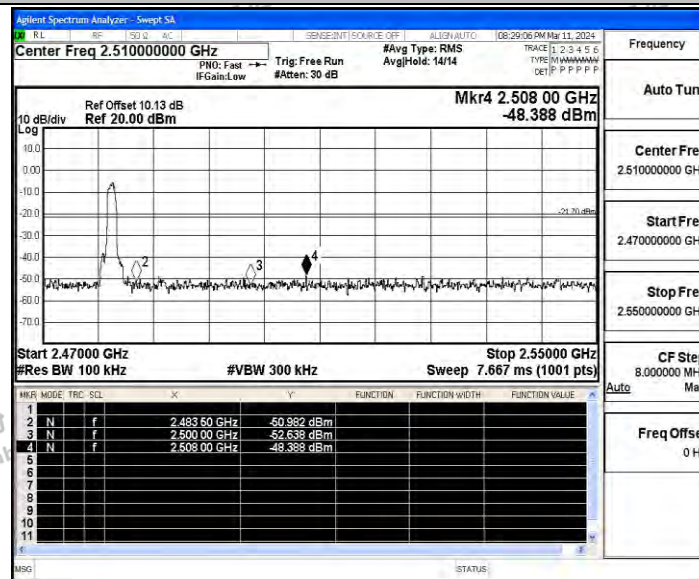
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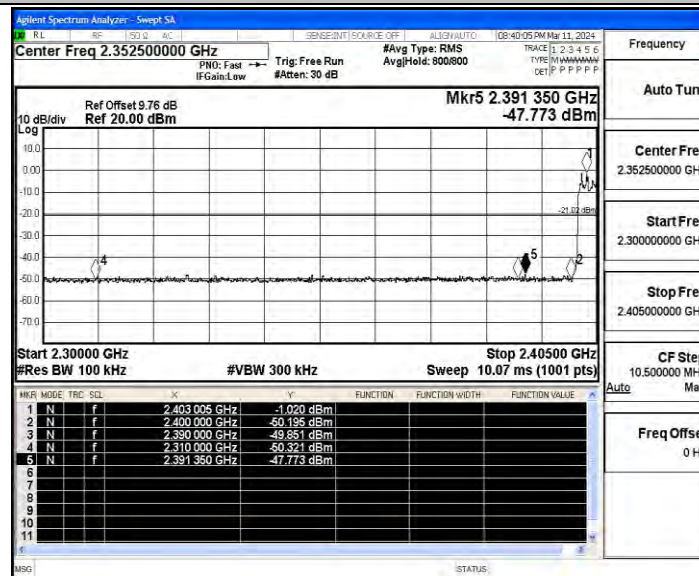
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2DH5_Ant_High_2480



2DH5_Ant_Low_Hop_2402



2DH5_Ant_High_Hop_2480

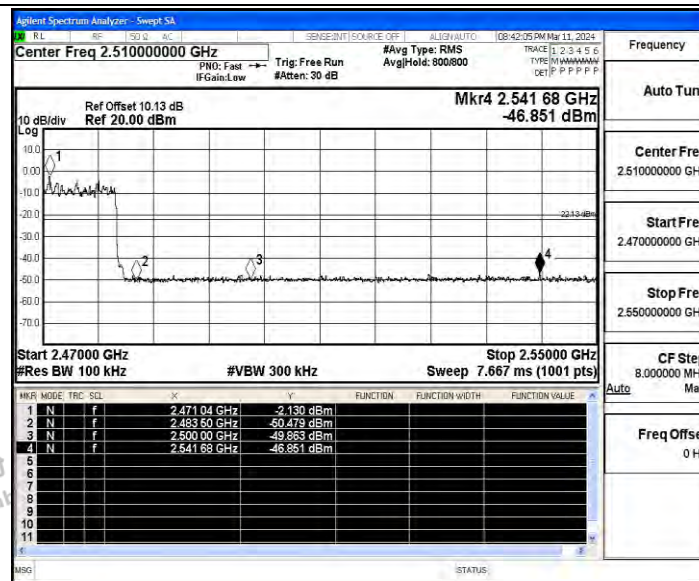


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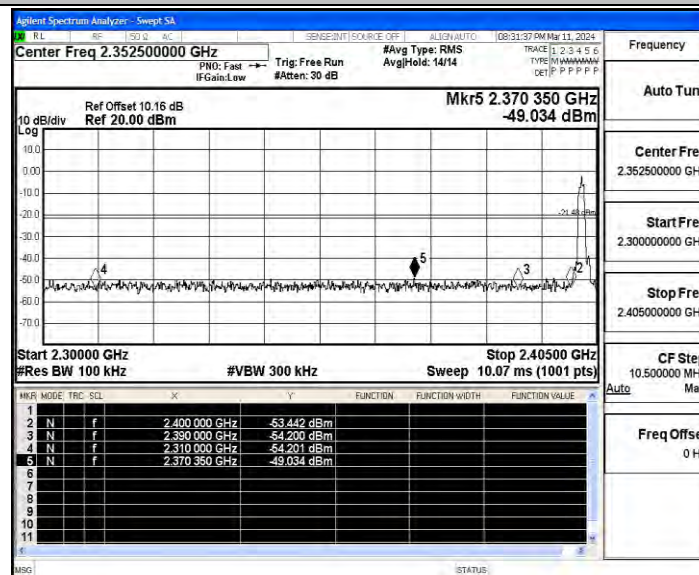
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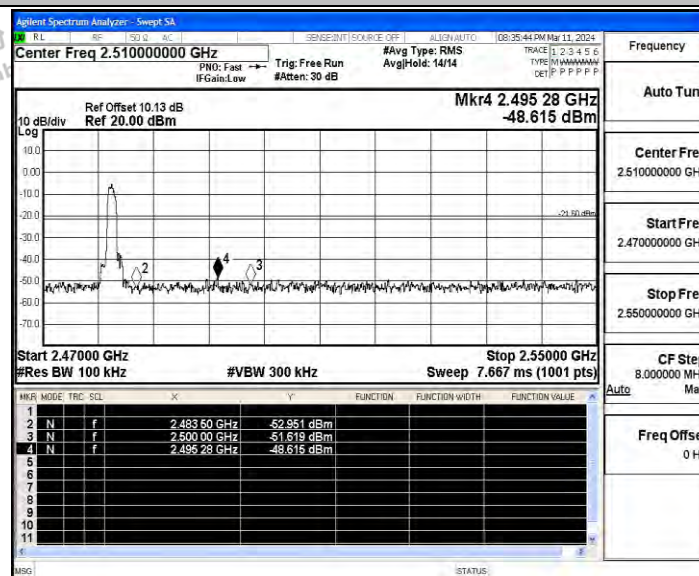
Scan code to check authenticity



3DH5_Ant_Low_2402

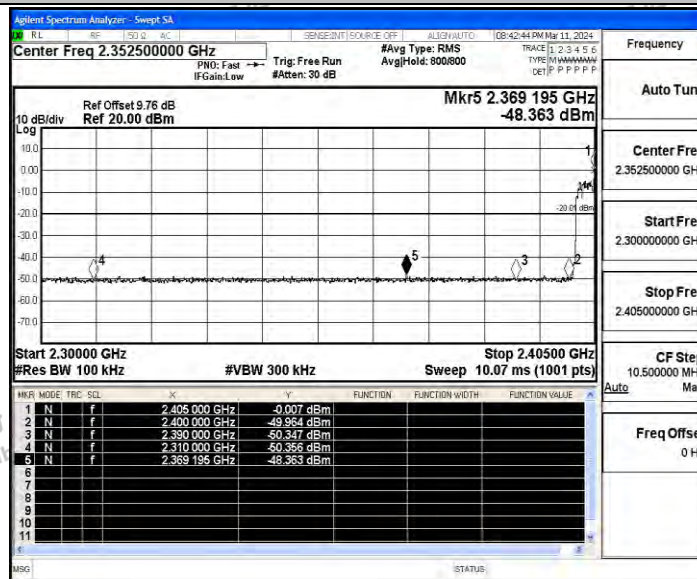


3DH5_Ant_High_2480

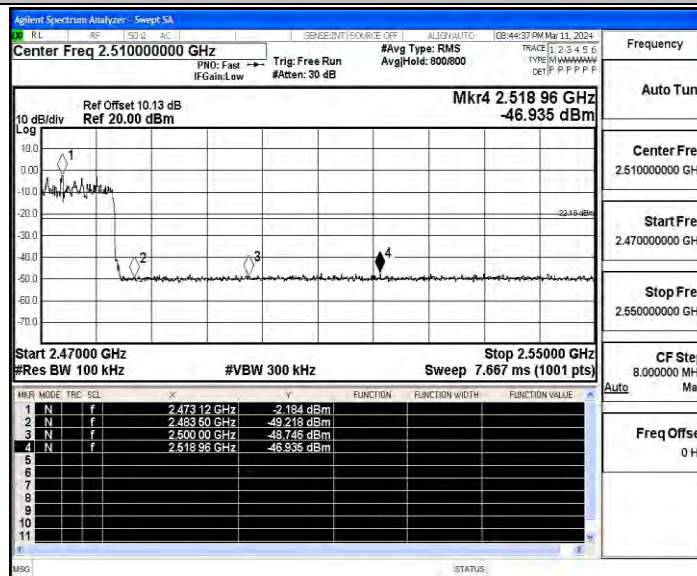




3DH5_Ant_Low_Hop_2402



3DH5_Ant_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

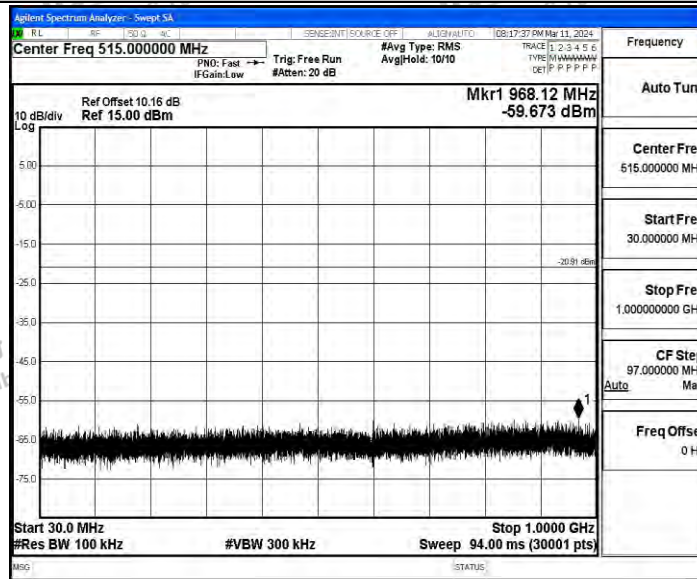
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	30~1000	-0.91	-59.67	≤-20.91	PASS
			1000~26500	-0.91	-46.82	≤-20.91	PASS
		2441	30~1000	-1.64	-59.13	≤-21.64	PASS
			1000~26500	-1.64	-47.43	≤-21.64	PASS
		2480	30~1000	-1.76	-59.77	≤-21.76	PASS
			1000~26500	-1.76	-46.7	≤-21.76	PASS
2DH5	Ant	2402	30~1000	-0.96	-58.71	≤-20.96	PASS
			1000~26500	-0.96	-46.93	≤-20.96	PASS
		2441	30~1000	-1.92	-59.58	≤-21.92	PASS
			1000~26500	-1.92	-47.34	≤-21.92	PASS
		2480	30~1000	-1.70	-59.63	≤-21.7	PASS
			1000~26500	-1.70	-47.25	≤-21.7	PASS
3DH5	Ant	2402	30~1000	-1.48	-59.64	≤-21.48	PASS
			1000~26500	-1.48	-47.3	≤-21.48	PASS
		2441	30~1000	-1.29	-59.63	≤-21.29	PASS
			1000~26500	-1.29	-47.54	≤-21.29	PASS
		2480	30~1000	-1.60	-58.61	≤-21.6	PASS
			1000~26500	-1.60	-47.12	≤-21.6	PASS



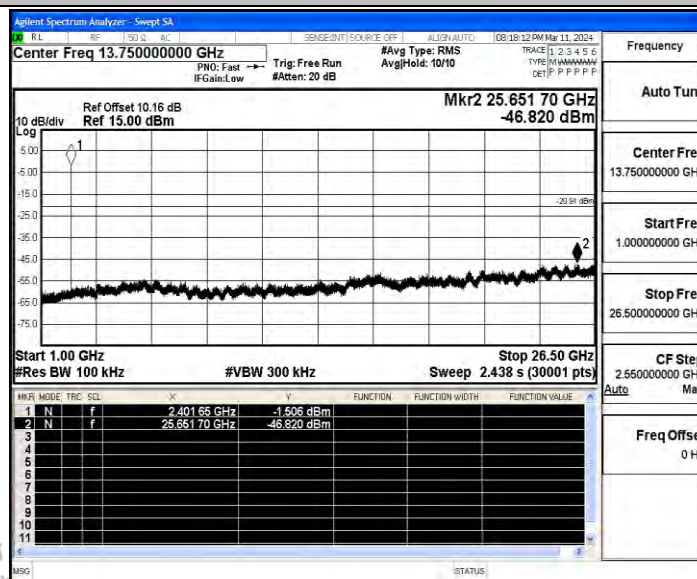


Test Graphs

DH5_Ant_2402_30~1000



DH5_Ant_2402_1000~26500



DH5_Ant_2441_30~1000

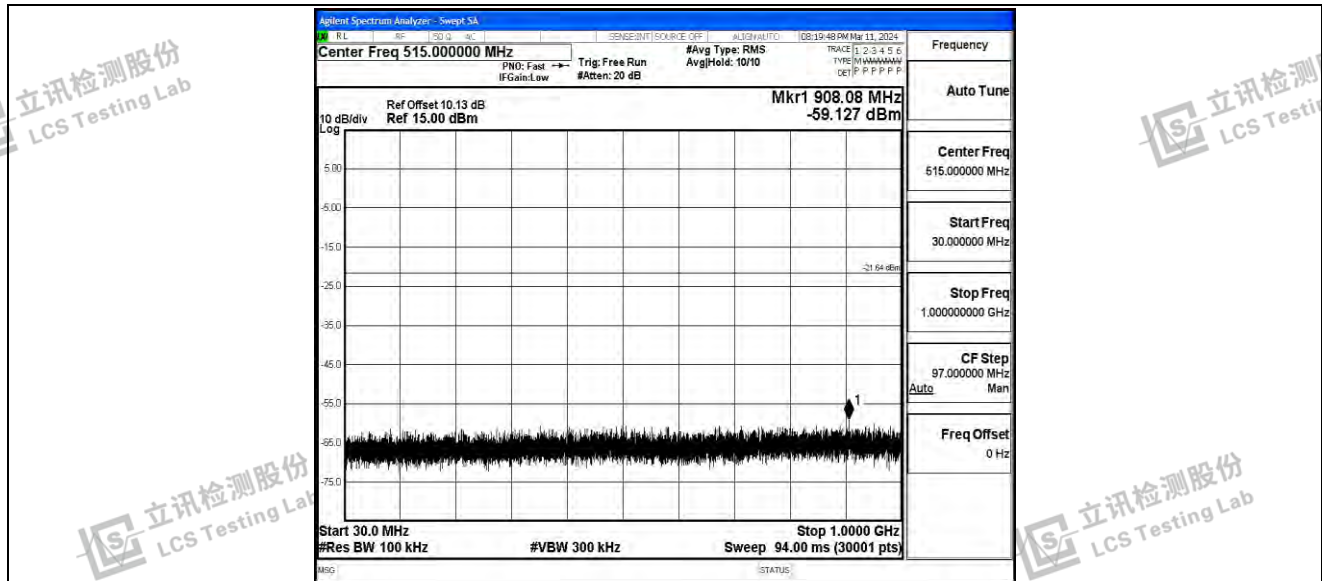


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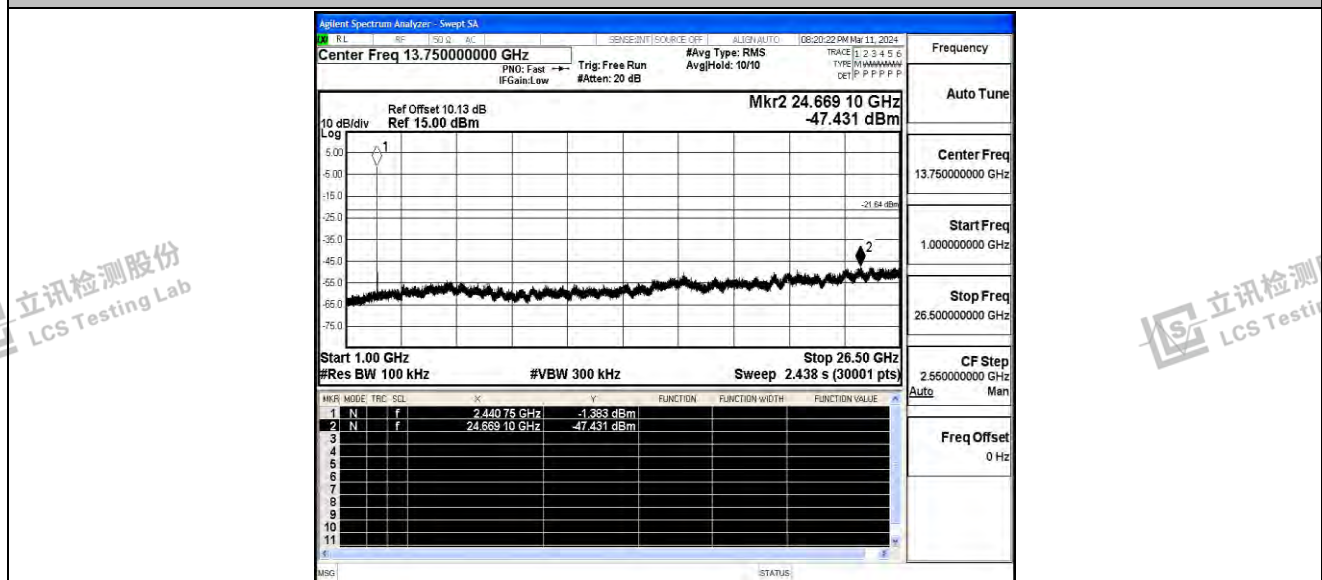
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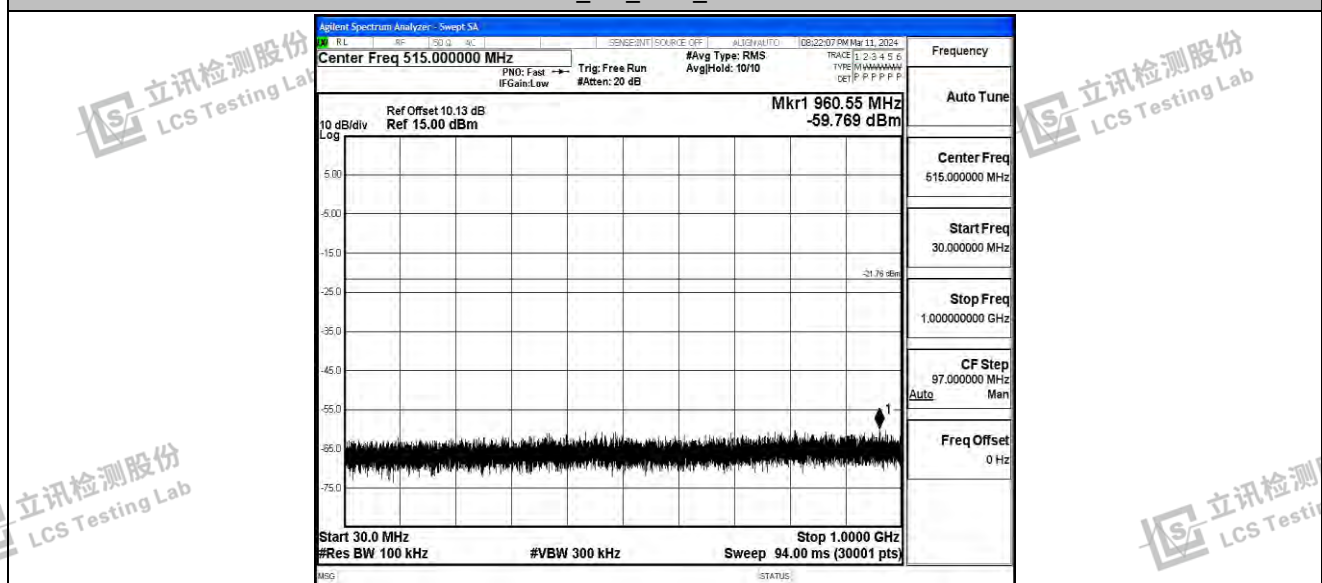
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DH5_Ant_2441_1000~26500



DH5_Ant_2480_30~1000



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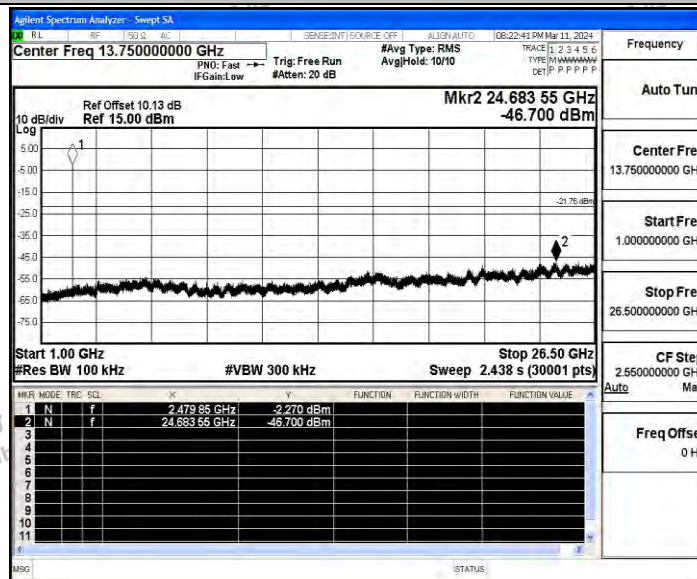
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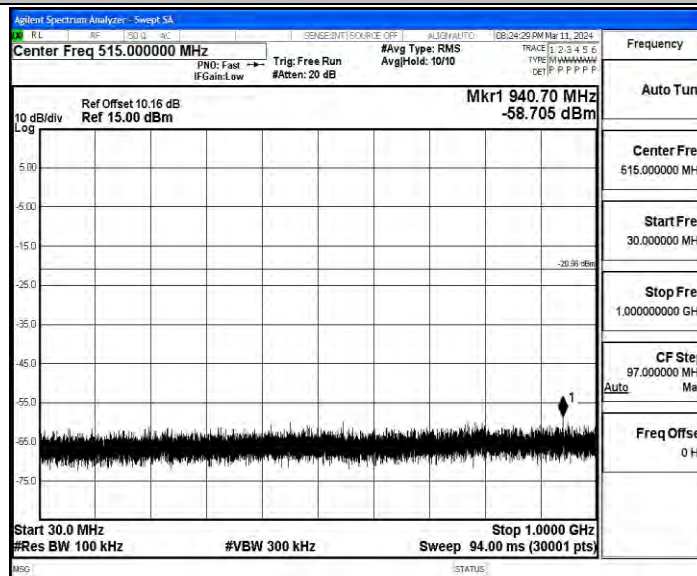
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DH5_Ant_2480_1000~26500



2DH5_Ant_2402_30~1000



2DH5_Ant_2402_1000~26500

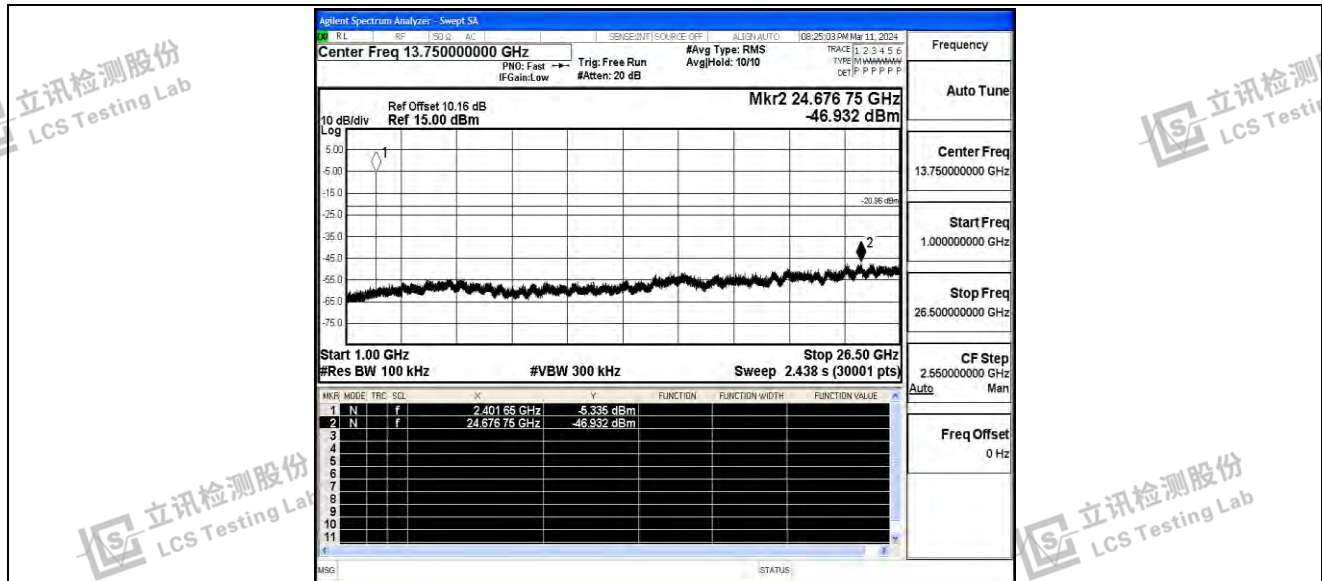


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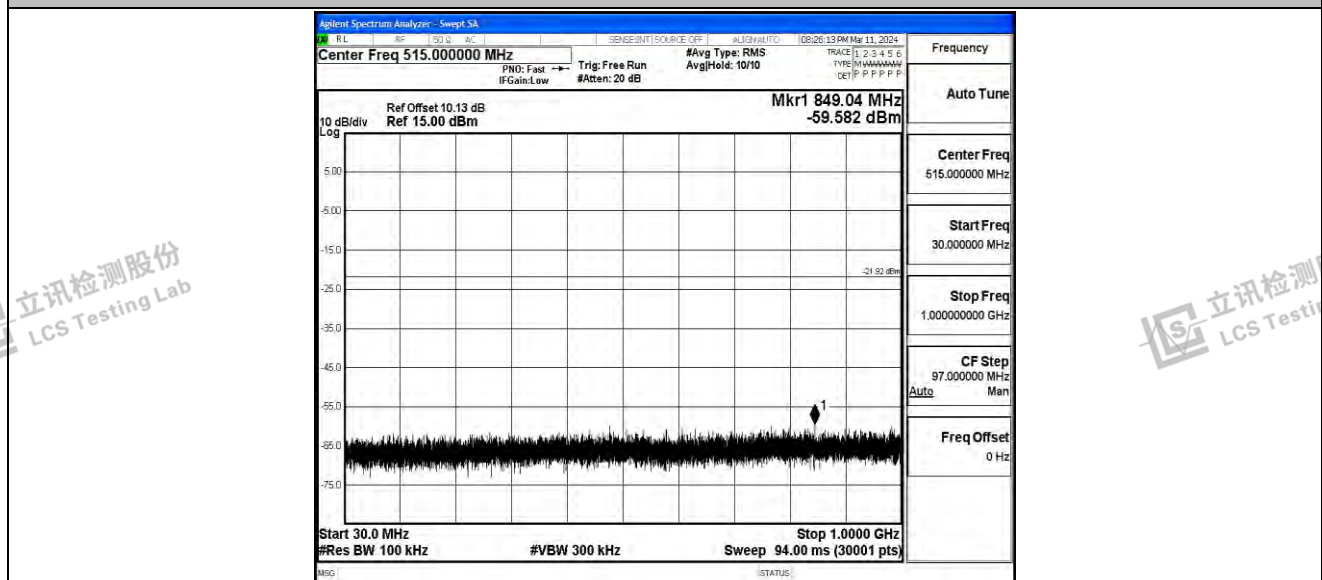
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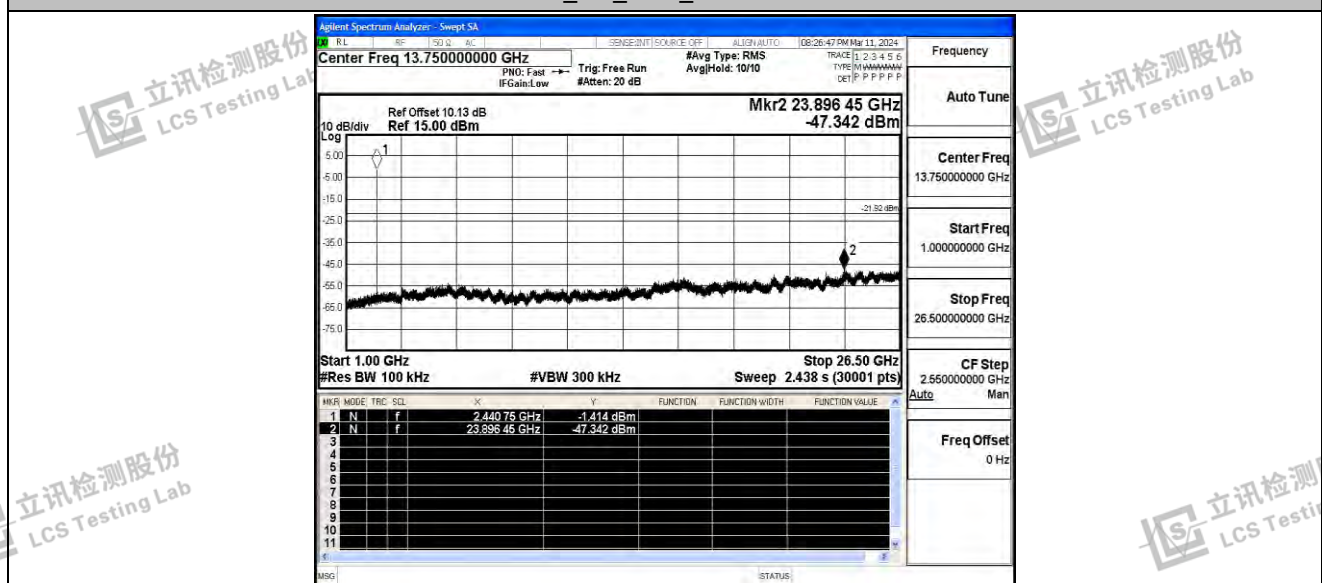
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2DH5_Ant_2441_30~1000



2DH5_Ant_2441_1000~26500



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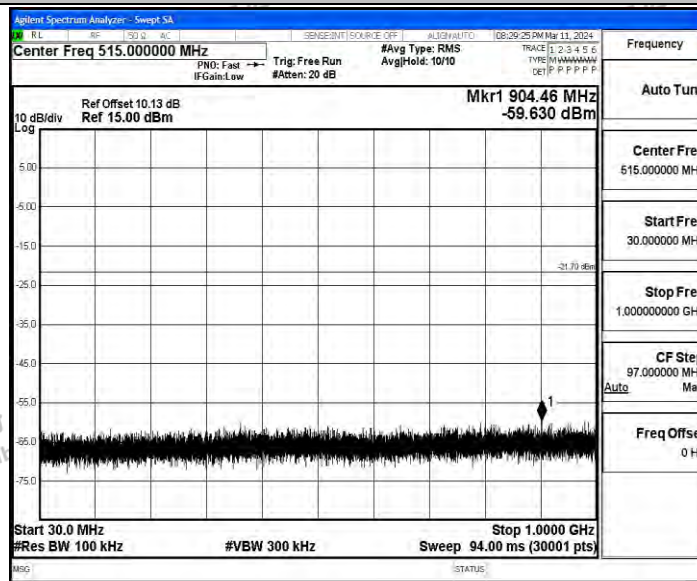
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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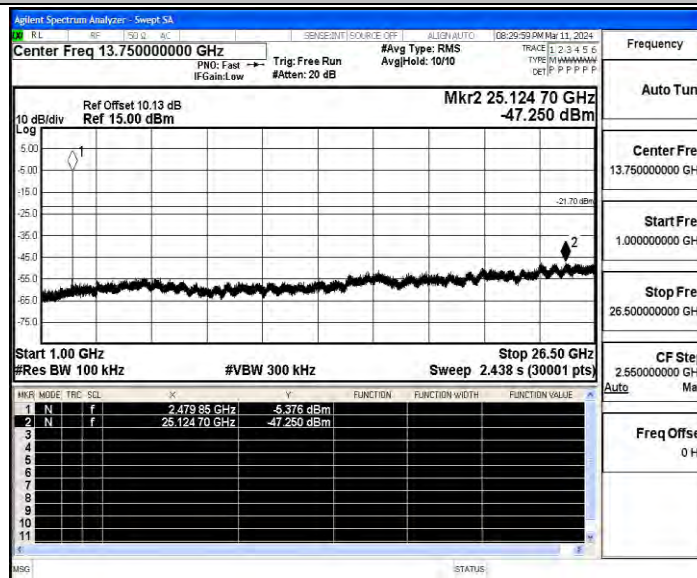
Scan code to check authenticity



2DH5_Ant_2480_30~1000



2DH5_Ant_2480_1000~26500



3DH5_Ant_2402_30~1000

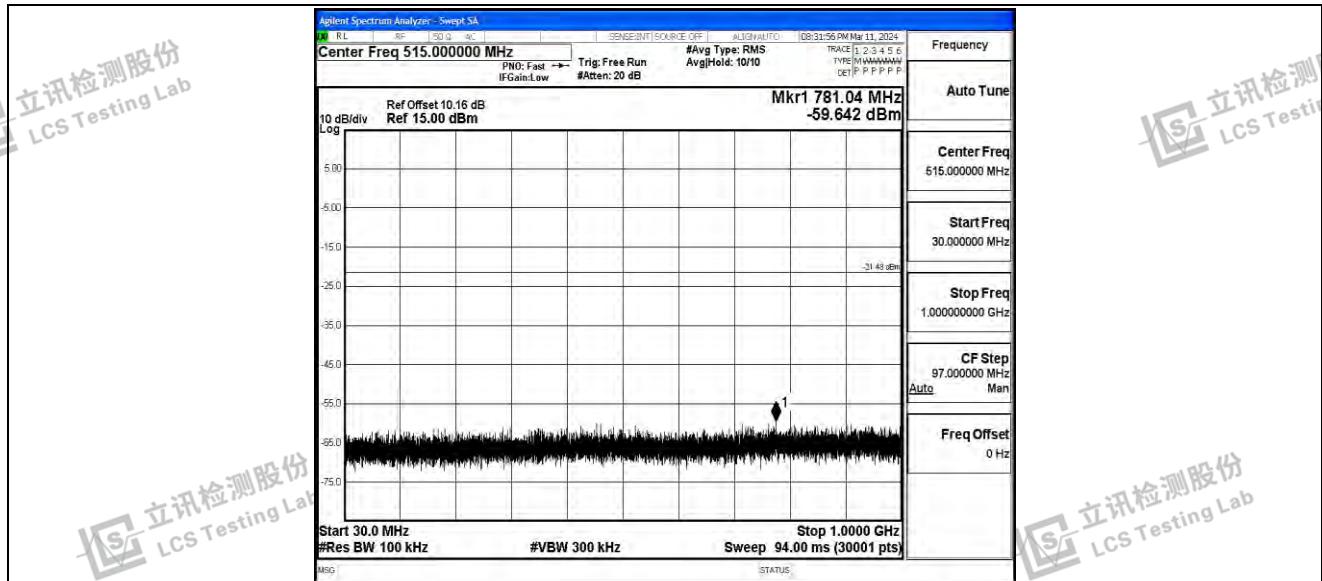


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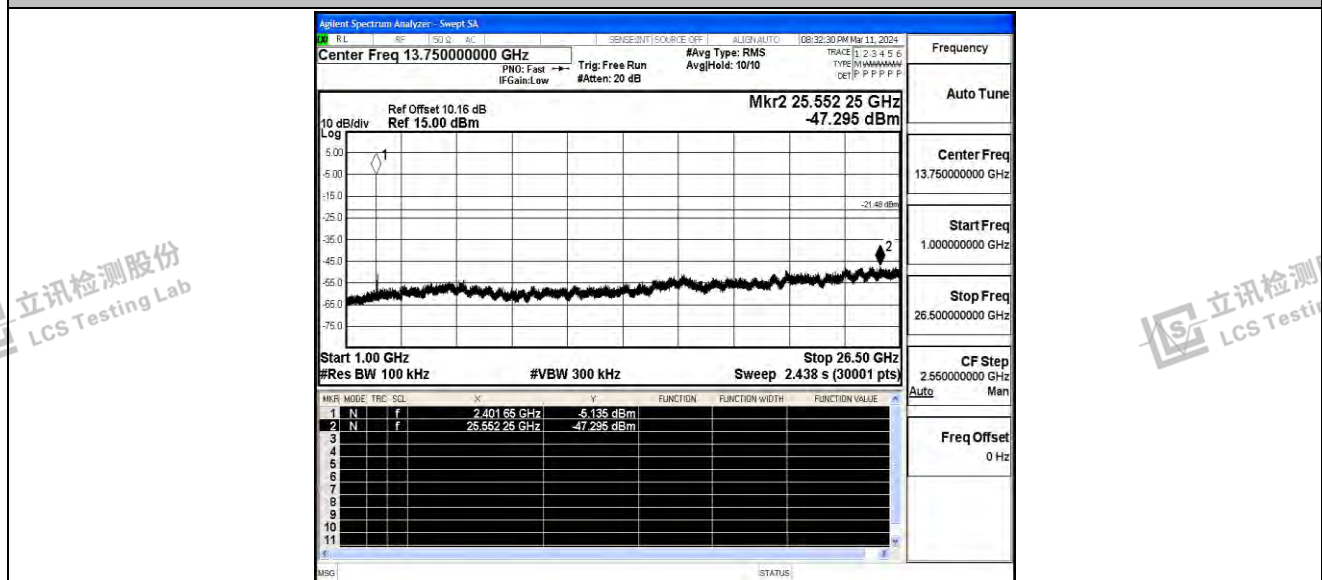
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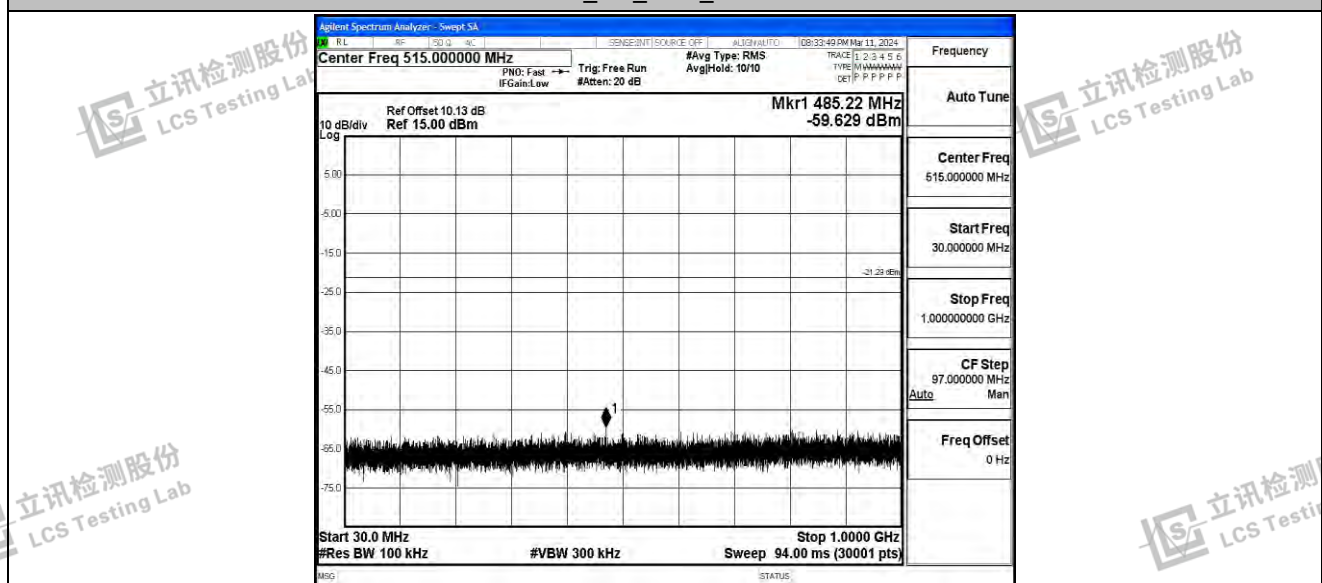
Scan code to check authenticity



3DH5_Ant_2402_1000~26500



3DH5_Ant_2441_30~1000



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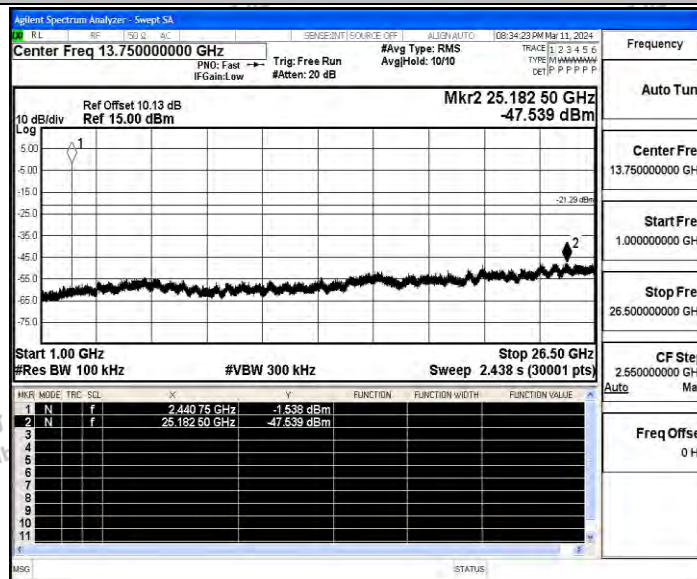
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

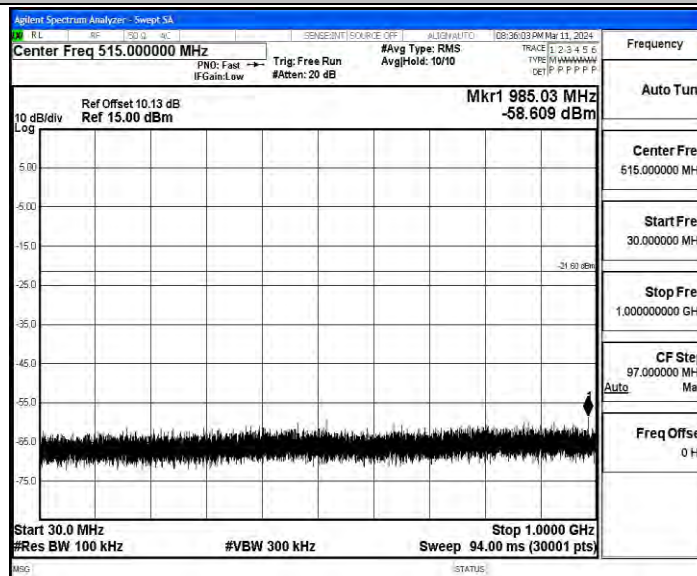
Scan code to check authenticity



3DH5_Ant_2441_1000~26500



3DH5_Ant_2480_30~1000



3DH5_Ant_2480_1000~26500

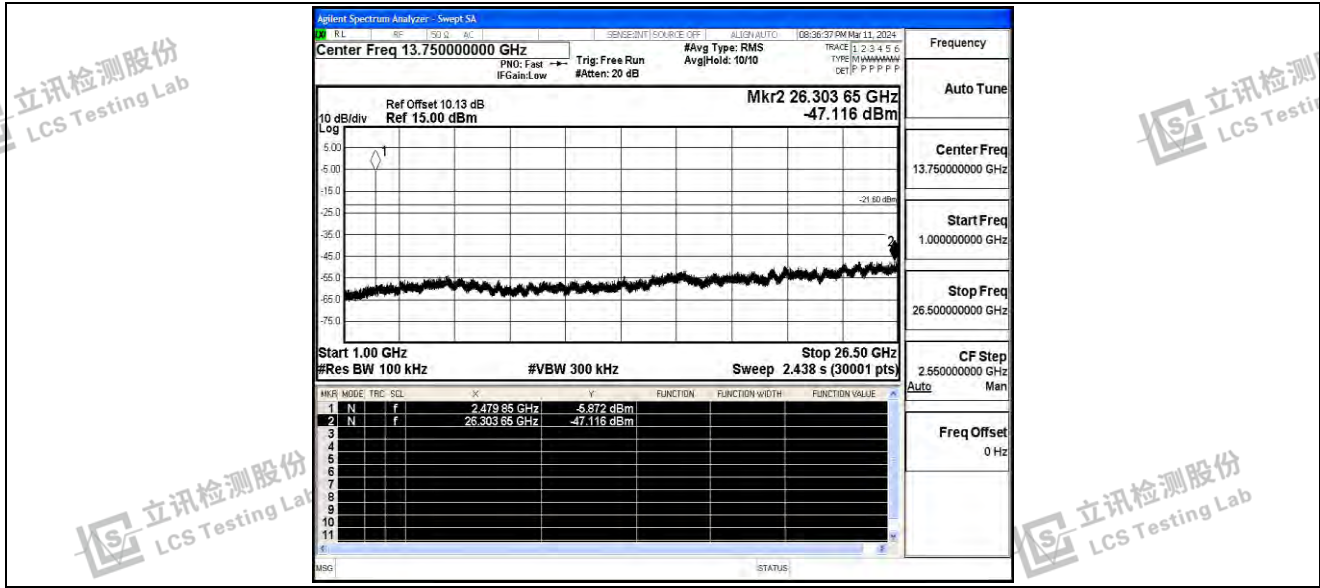


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Reference Level

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	2402.00	-0.91	---	PASS
		2441	2441.02	-1.64	---	PASS
		2480	2479.99	-1.76	---	PASS
2DH5	Ant	2402	2401.83	-0.96	---	PASS
		2441	2440.81	-1.92	---	PASS
		2480	2480.15	-1.70	---	PASS
3DH5	Ant	2402	2402.15	-1.48	---	PASS
		2441	2441.16	-1.29	---	PASS
		2480	2480.16	-1.60	---	PASS



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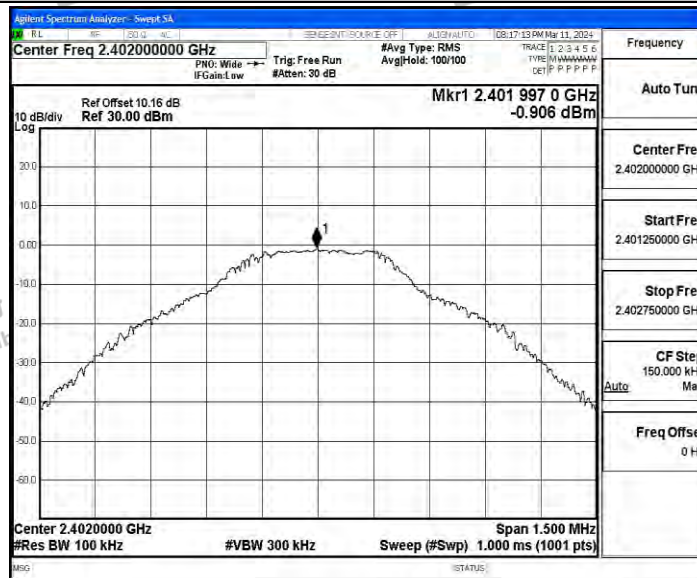
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

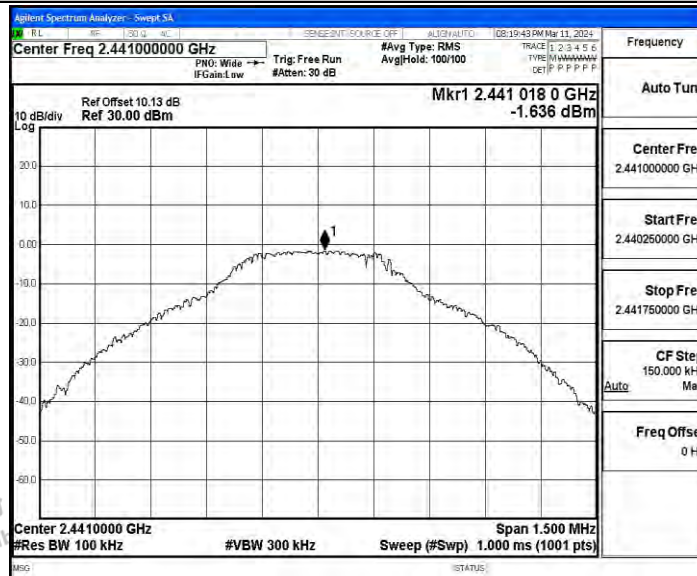


Test Graphs

DH5_Ant_2402

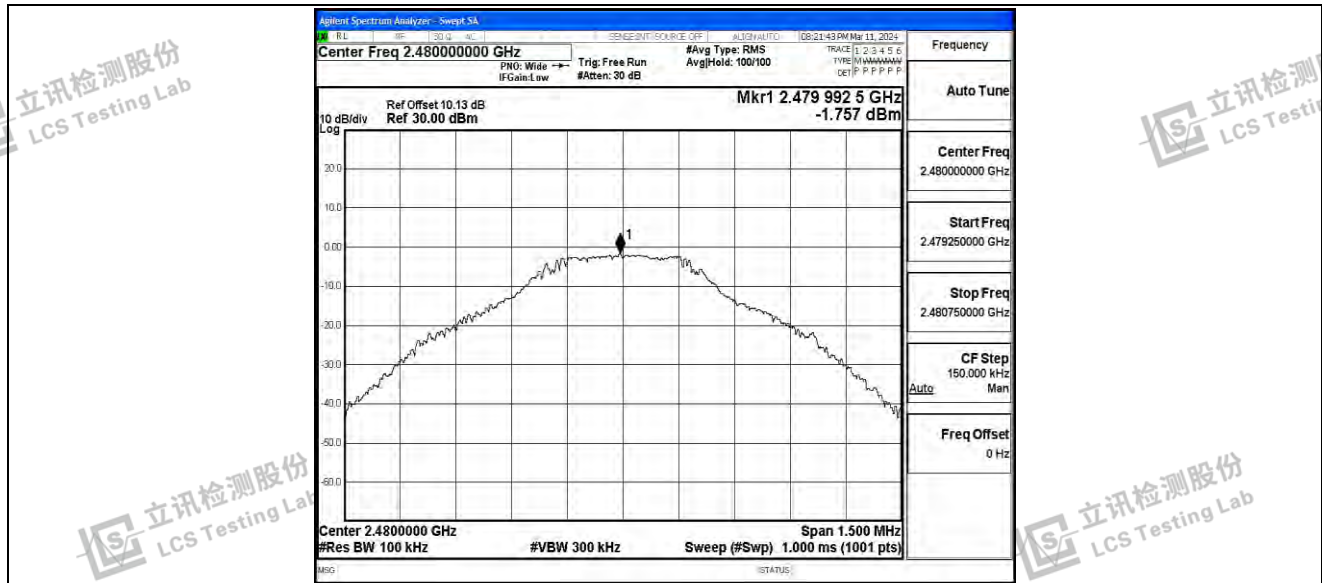


DH5_Ant_2441

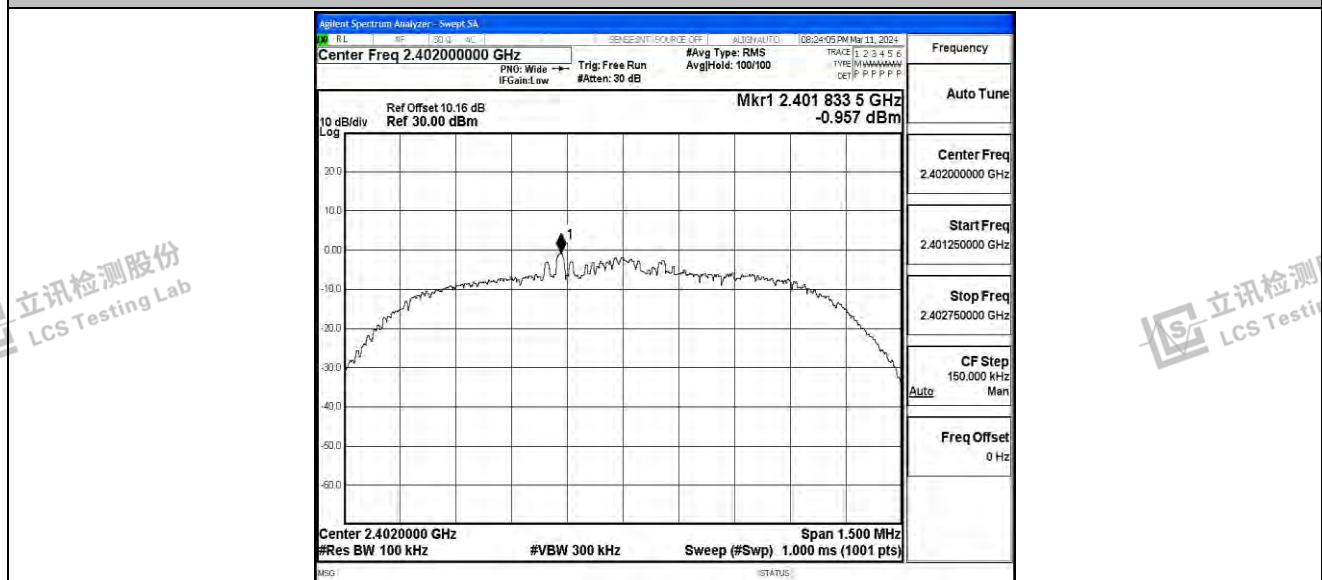


DH5_Ant_2480

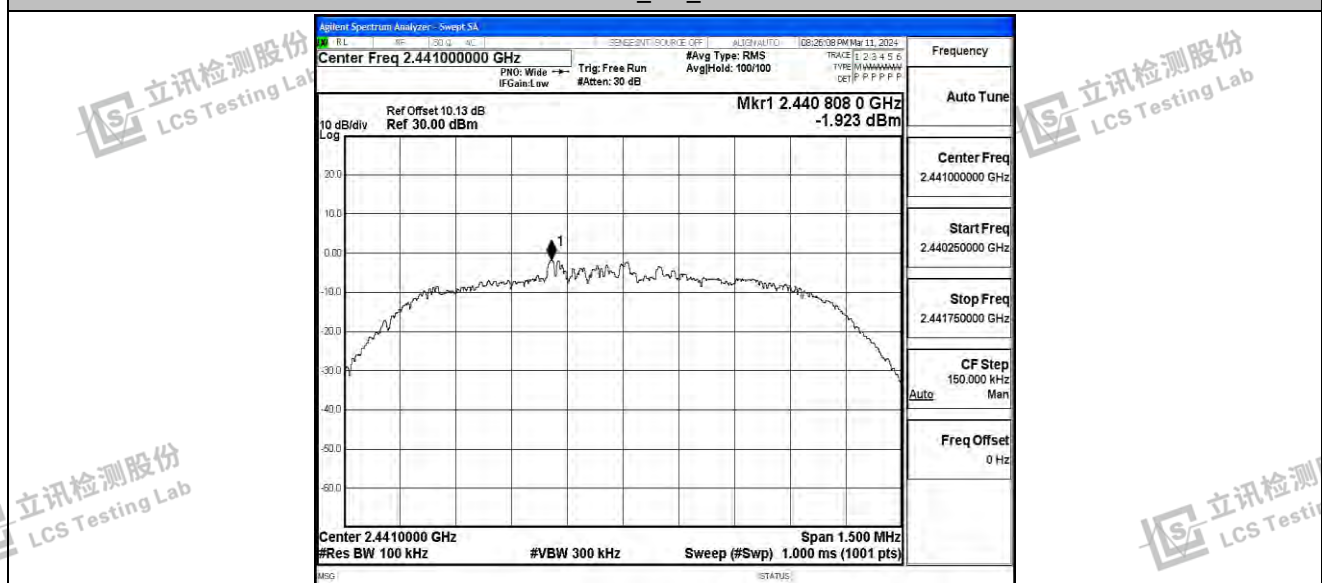




2DH5_Ant_2402



2DH5_Ant_2441



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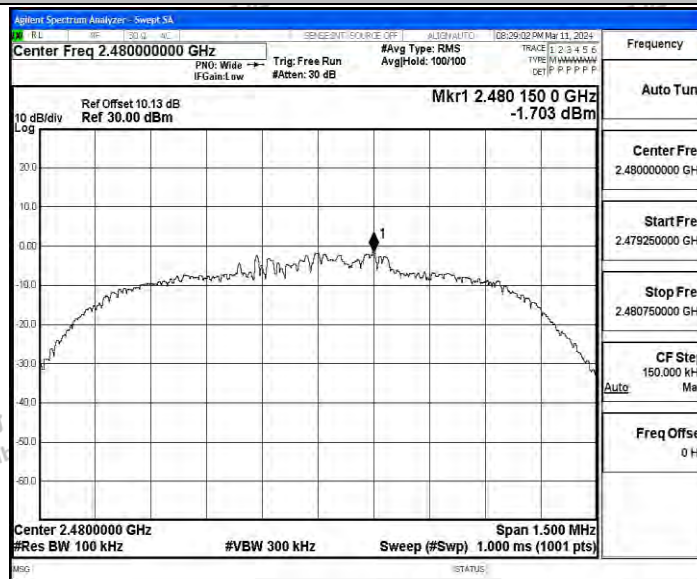
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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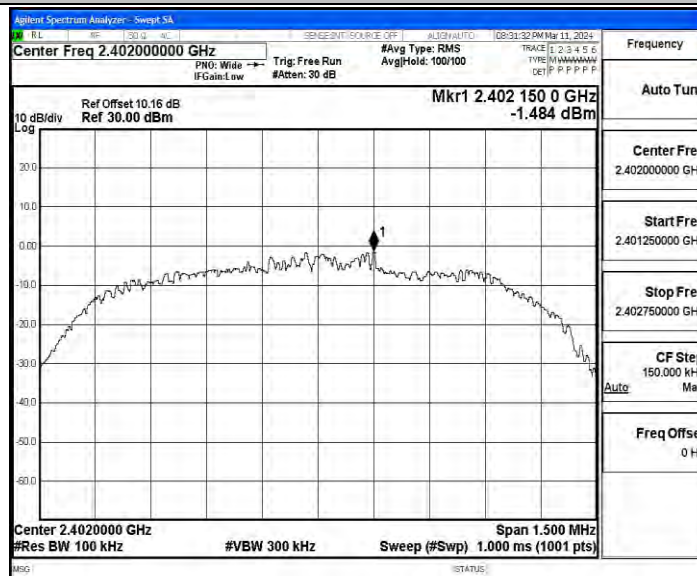
Scan code to check authenticity



2DH5_Ant_2480



3DH5_Ant_2402



3DH5_Ant_2441

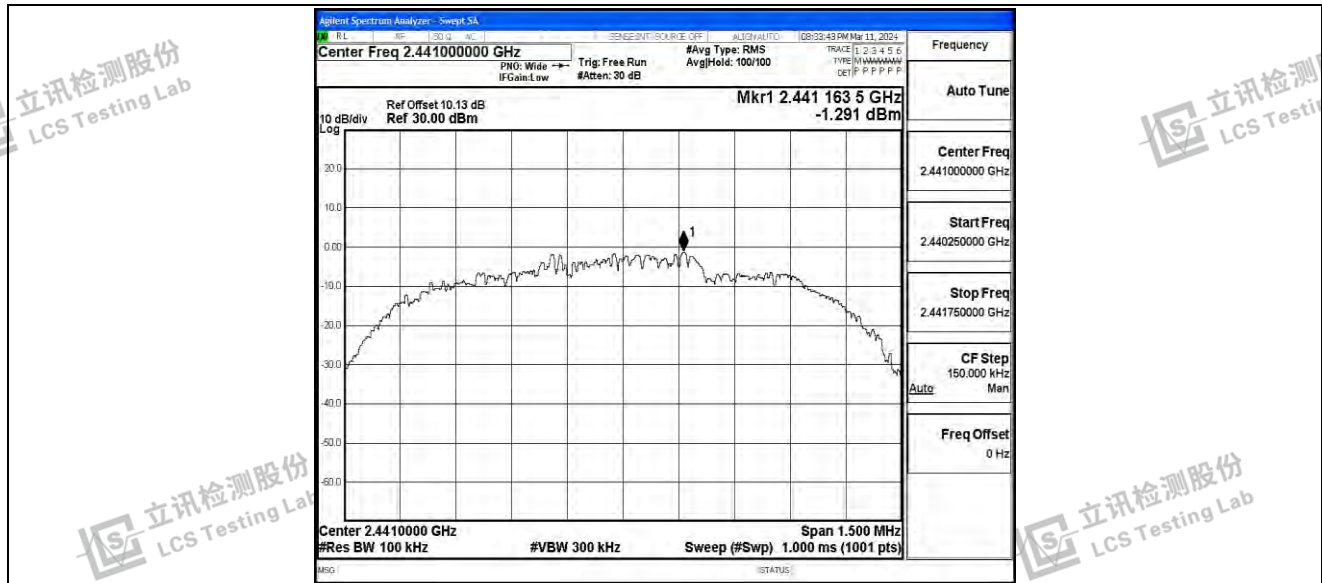


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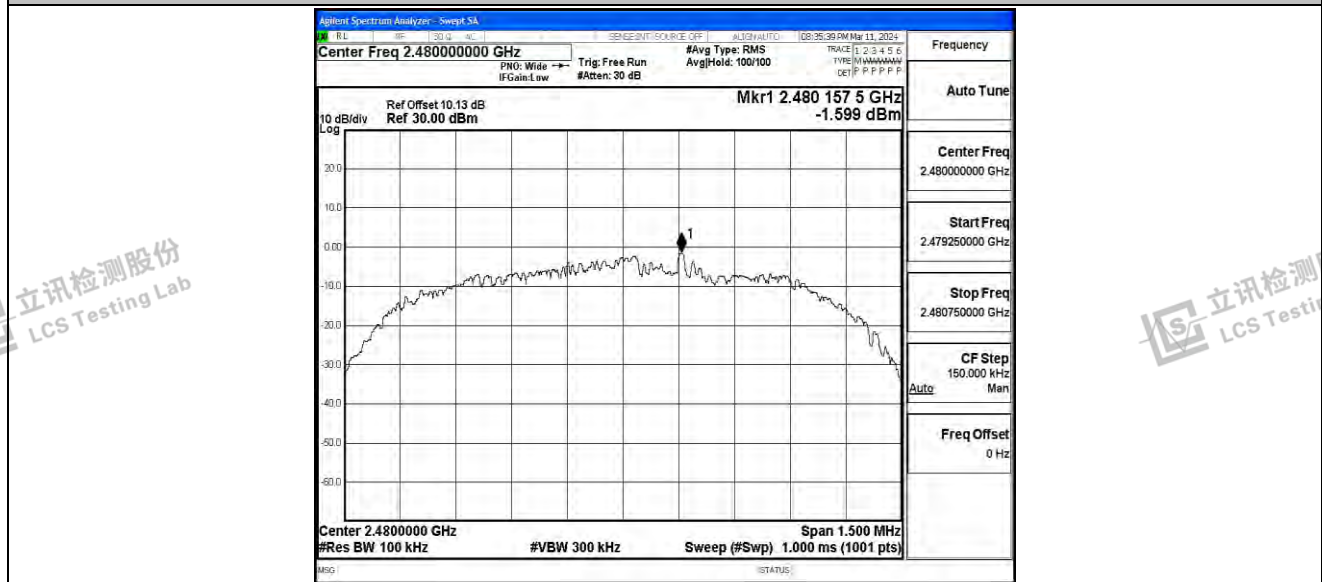
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3DH5_Ant_2480



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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	Ant	2402	2.88	3.75	76.80	1.15	0.35
		2441	2.89	3.75	77.07	1.13	0.35
		2480	2.88	3.75	76.80	1.15	0.35
2DH5	Ant	2402	2.88	3.75	76.80	1.15	0.35
		2441	2.89	3.75	77.07	1.13	0.35
		2480	2.88	3.75	76.80	1.15	0.35
3DH5	Ant	2402	2.89	3.75	77.07	1.13	0.35
		2441	2.89	3.75	77.07	1.13	0.35
		2480	2.89	3.75	77.07	1.13	0.35



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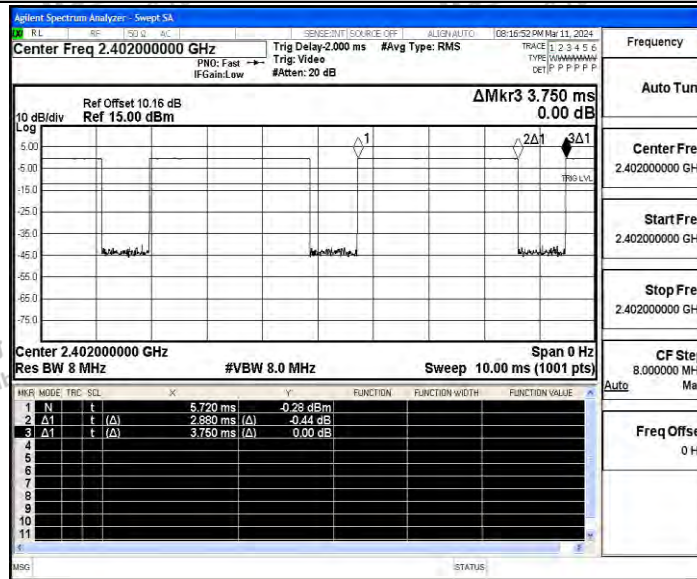
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

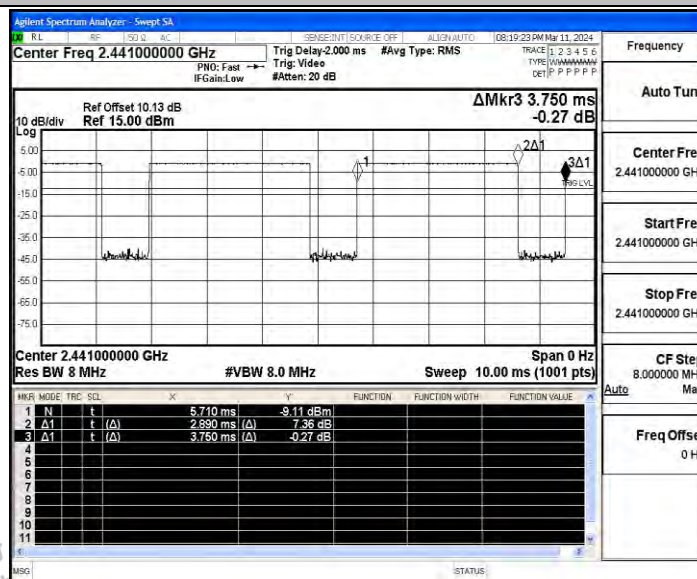


Test Graphs

DH5_Ant_2402



DH5_Ant_2441



DH5_Ant_2480

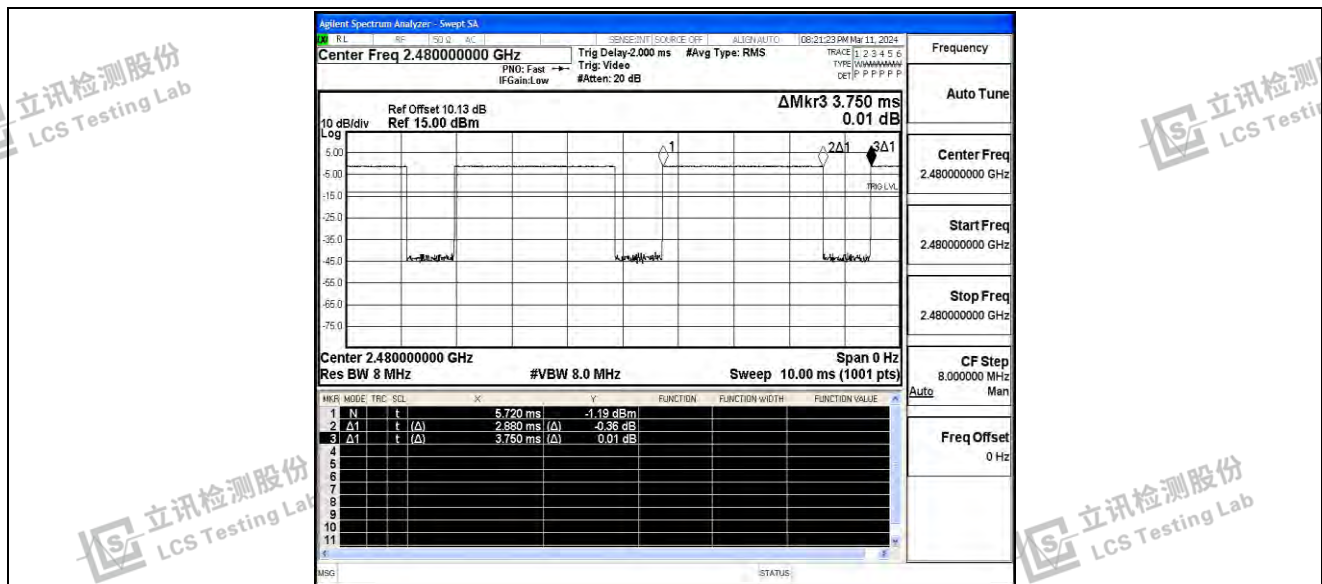


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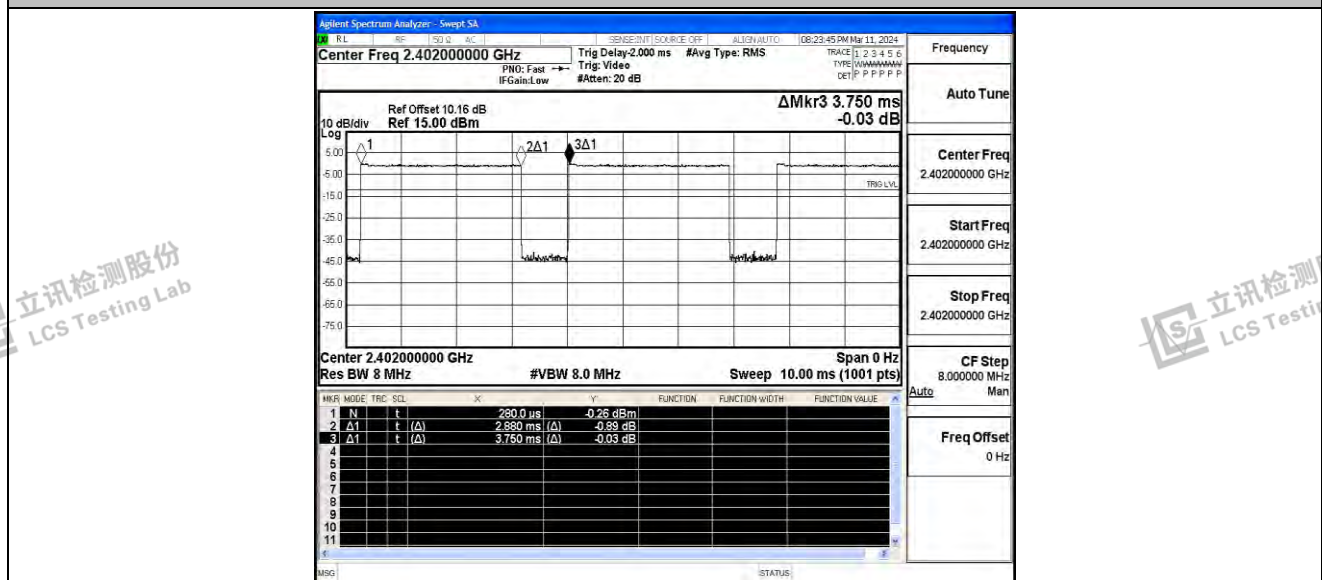
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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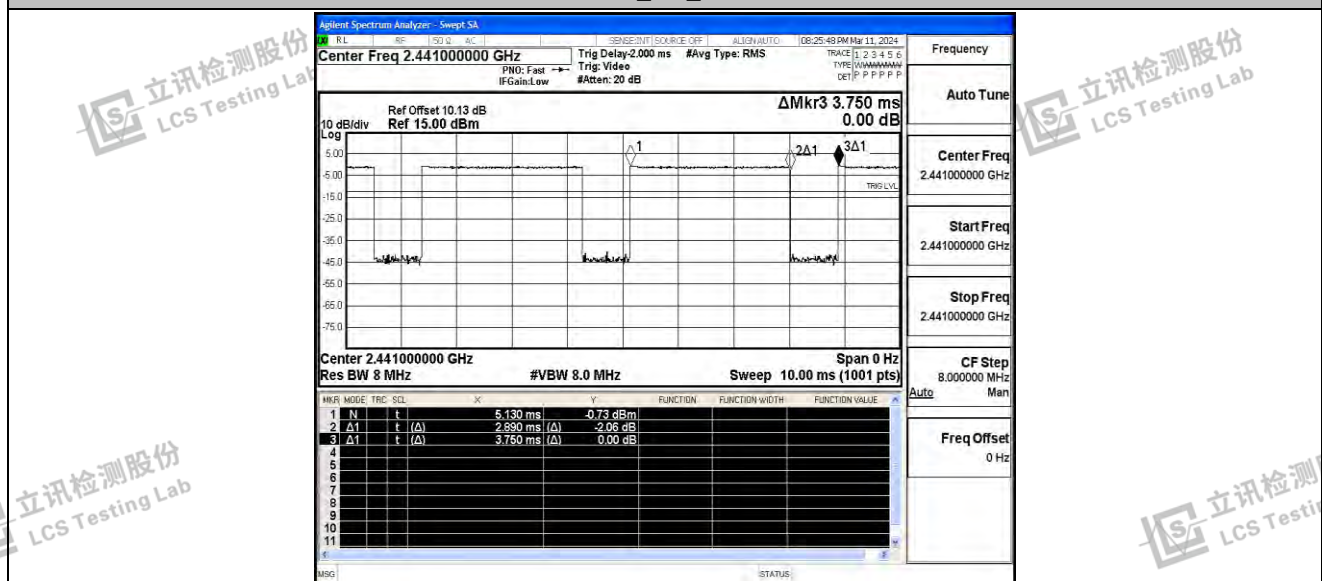
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2DH5_Ant_2402



2DH5_Ant_2441



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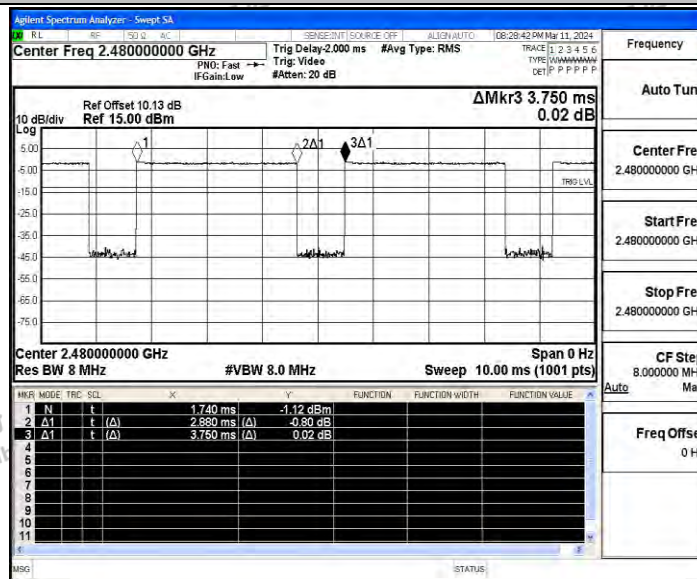
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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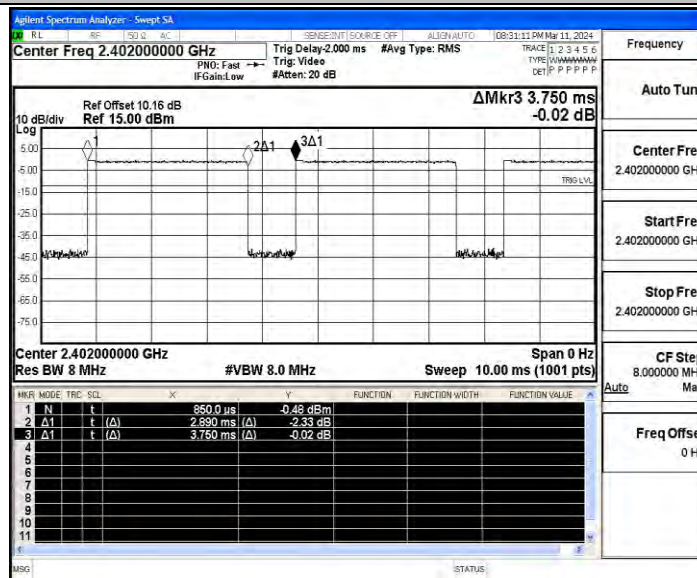
Scan code to check authenticity



2DH5_Ant_2480



3DH5_Ant_2402



3DH5_Ant_2441

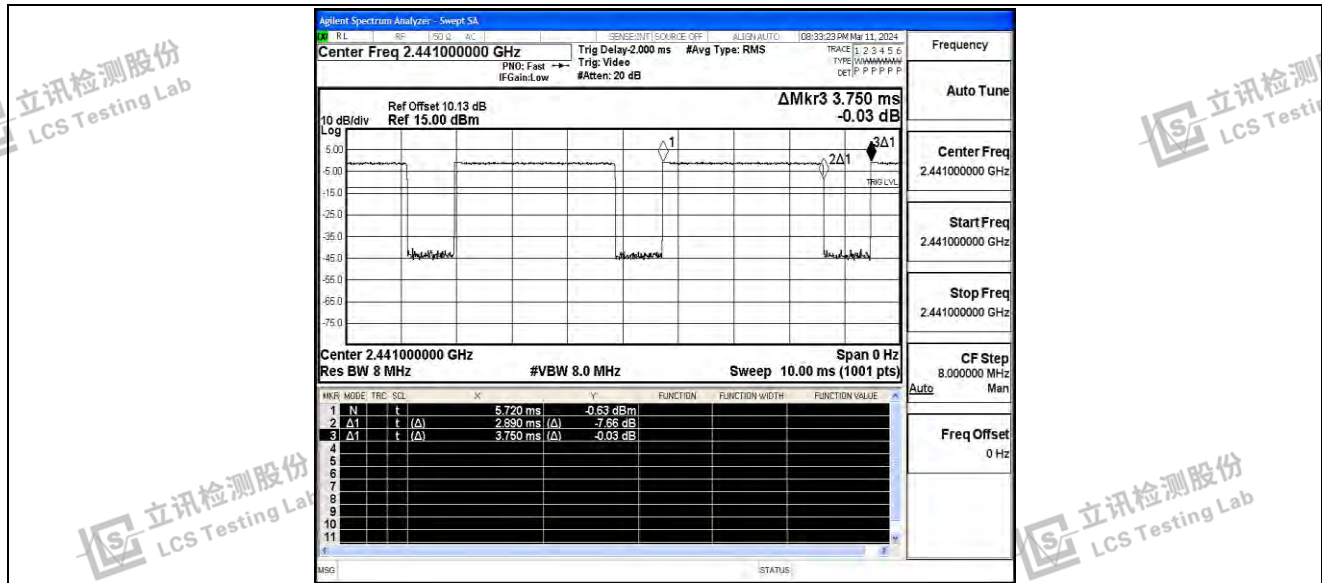


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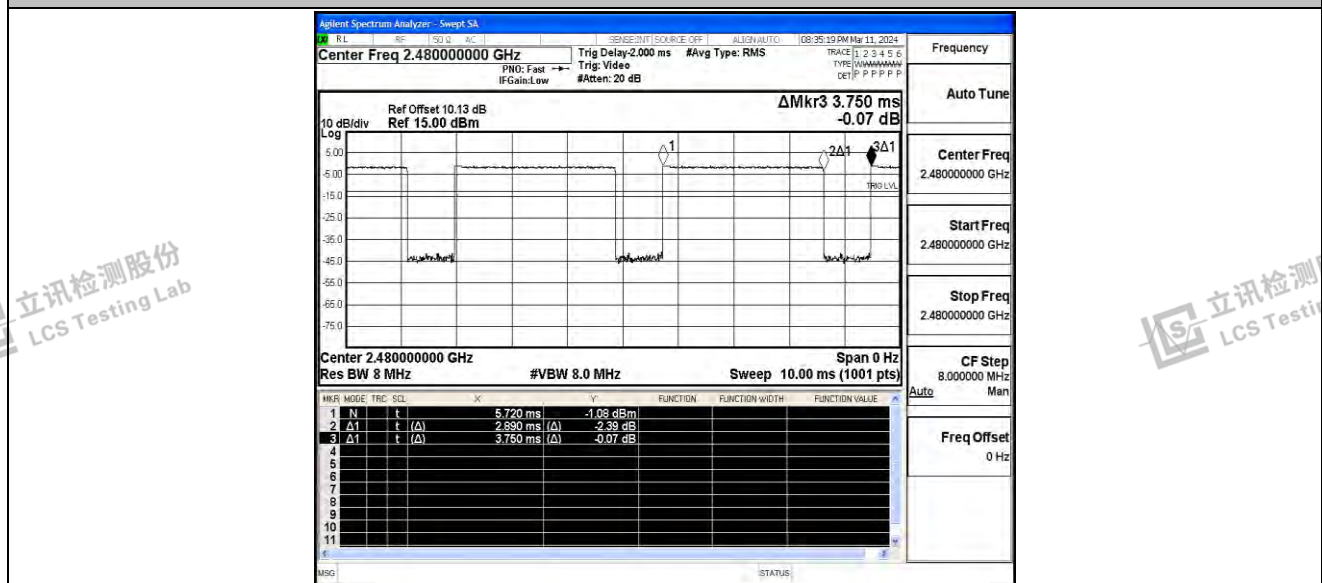
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3DH5_Ant_2480



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A.9 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel Name	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant	Low	2402	AV	2310.000	-46.76	≤-41.20	48.44	≤54	PASS
				AV	2373.080	-45.85	≤-41.20	49.35	≤54	PASS
				AV	2390.000	-46.94	≤-41.20	48.26	≤54	PASS
				Peak	2310.000	-40.07	≤-21.20	55.13	≤74	PASS
				Peak	2349.350	-36.61	≤-21.20	58.59	≤74	PASS
				Peak	2390.000	-39.75	≤-21.20	55.45	≤74	PASS
		High	2480	AV	2483.500	-47.06	≤-41.20	48.14	≤54	PASS
				AV	2487.760	-45.78	≤-41.20	49.42	≤54	PASS
				AV	2500.000	-46.06	≤-41.20	49.14	≤54	PASS
				Peak	2483.500	-40.83	≤-21.20	54.37	≤74	PASS
				Peak	2486.800	-37.17	≤-21.20	58.03	≤74	PASS
				Peak	2500.000	-38.87	≤-21.20	56.33	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-41.42	≤-21.20	53.78	≤74	PASS
				Peak	2328.770	-36.72	≤-21.20	58.48	≤74	PASS
				Peak	2390.000	-40.21	≤-21.20	54.99	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.48	≤-21.20	54.72	≤74	PASS
				Peak	2491.600	-36.74	≤-21.20	58.46	≤74	PASS
				Peak	2500.000	-38.96	≤-21.20	56.24	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-47.22	≤-41.20	47.98	≤54	PASS
				AV	2324.675	-45.9	≤-41.20	49.30	≤54	PASS
				AV	2390.000	-46.53	≤-41.20	48.67	≤54	PASS
				Peak	2310.000	-38.96	≤-21.20	56.24	≤74	PASS
				Peak	2369.720	-37.16	≤-21.20	58.04	≤74	PASS
				Peak	2390.000	-40.91	≤-21.20	54.29	≤74	PASS
		High	2480	AV	2483.500	-46.47	≤-41.20	48.73	≤54	PASS
				AV	2487.680	-45.58	≤-41.20	49.62	≤54	PASS
				AV	2500.000	-46.45	≤-41.20	48.75	≤54	PASS
				Peak	2483.500	-39.5	≤-21.20	55.70	≤74	PASS
				Peak	2496.960	-37.52	≤-21.20	57.68	≤74	PASS
				Peak	2500.000	-39.31	≤-21.20	55.89	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-42.49	≤-21.20	52.71	≤74	PASS
				Peak	2390.000	-36.93	≤-21.20	58.27	≤74	PASS
		High	Hop_2480	Peak	2483.500	-38.35	≤-21.20	56.85	≤74	PASS
				Peak	2492.160	-37.31	≤-21.20	57.89	≤74	PASS
				Peak	2500.000	-39.68	≤-21.20	55.52	≤74	PASS
3DH5	Ant	Low	2402	AV	2310.000	-46.79	≤-41.20	48.41	≤54	PASS
				AV	2360.165	-45.88	≤-41.20	49.32	≤54	PASS



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立讯检测股份 LCS Testing Lab	立讯检测股份 LCS Testing Lab			AV	2390.000	-46.15	≤ -41.20	49.05	≤ 54	PASS
				Peak	2310.000	-39.78	≤ -21.20	55.42	≤ 74	PASS
				Peak	2328.560	-36.94	≤ -21.20	58.26	≤ 74	PASS
				Peak	2390.000	-39.42	≤ -21.20	55.78	≤ 74	PASS
		High	2480	AV	2483.500	-46.26	≤ -41.20	48.94	≤ 54	PASS
				AV	2484.560	-45.83	≤ -41.20	49.37	≤ 54	PASS
				AV	2500.000	-46.06	≤ -41.20	49.14	≤ 54	PASS
				Peak	2483.500	-40.42	≤ -21.20	54.78	≤ 74	PASS
				Peak	2490.480	-37.14	≤ -21.20	58.06	≤ 74	PASS
				Peak	2500.000	-40.16	≤ -21.20	55.04	≤ 74	PASS
		Low	Hop_240 2	Peak	2310.000	-41.39	≤ -21.20	53.81	≤ 74	PASS
				Peak	2371.085	-37.26	≤ -21.20	57.94	≤ 74	PASS
				Peak	2390.000	-40.59	≤ -21.20	54.61	≤ 74	PASS
		High	Hop_248 0	Peak	2483.500	-39.25	≤ -21.20	55.95	≤ 74	PASS
				Peak	2489.440	-36.73	≤ -21.20	58.47	≤ 74	PASS
				Peak	2500.000	-37.94	≤ -21.20	57.26	≤ 74	PASS

Note:

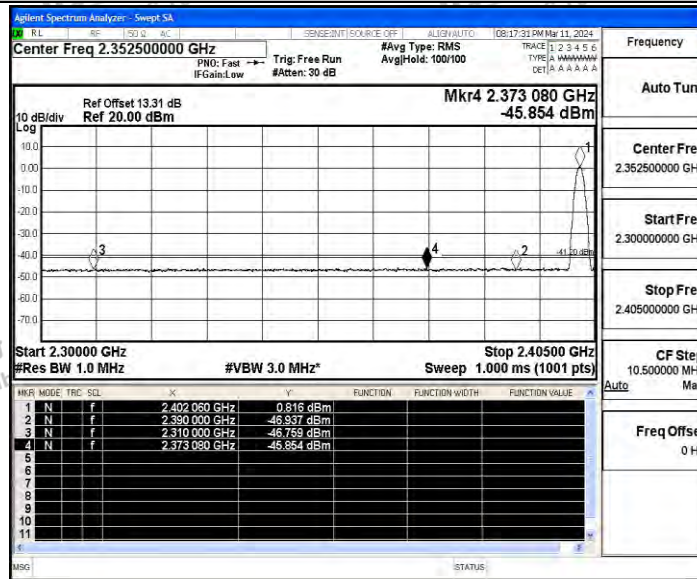
1. The Antenna Gain is compensated in the graph. The Correction Factor is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



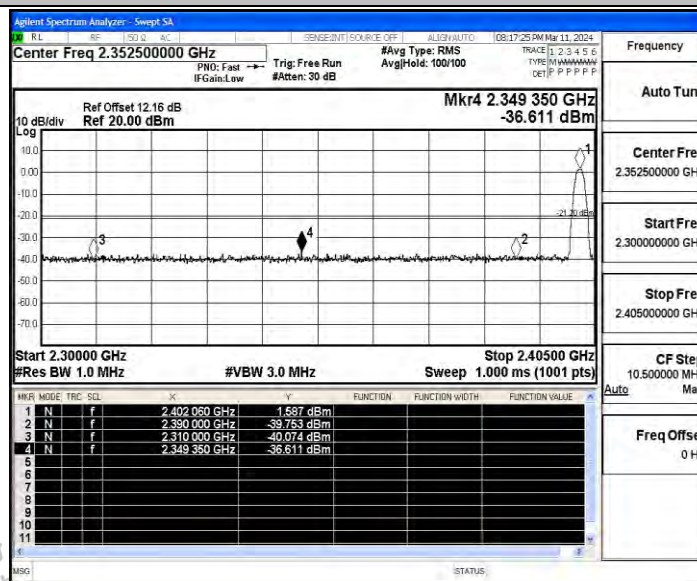


Test Graphs

DH5_Ant_Low_2402_AV



DH5_Ant_Low_2402_Peak



DH5_Ant_High_2480_AV

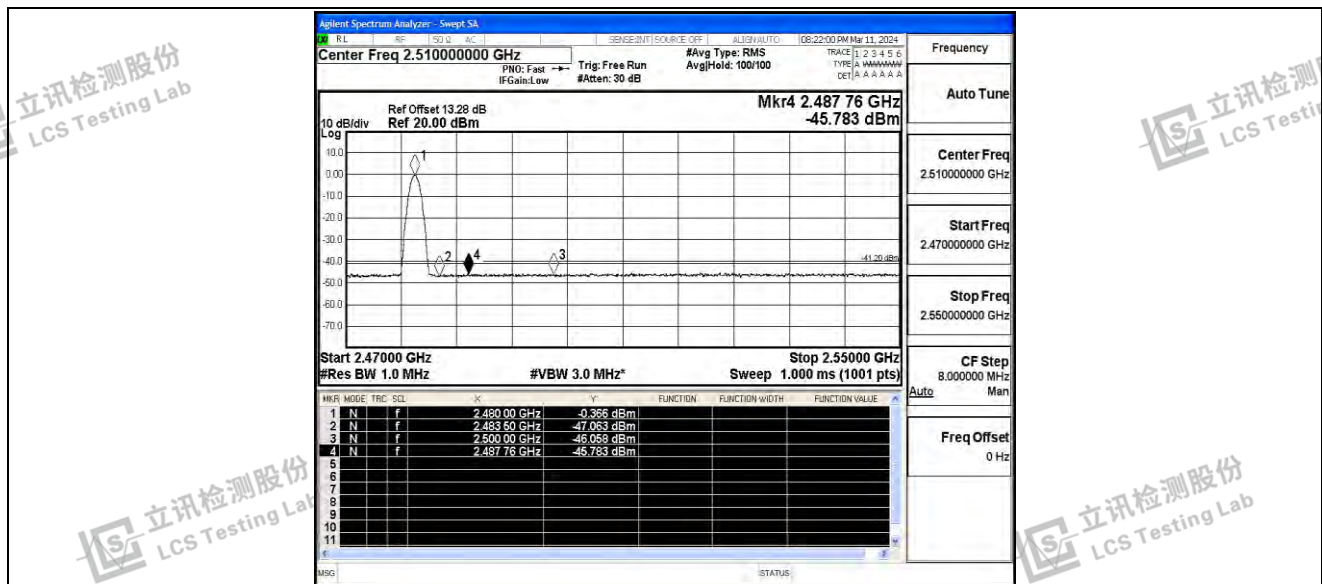


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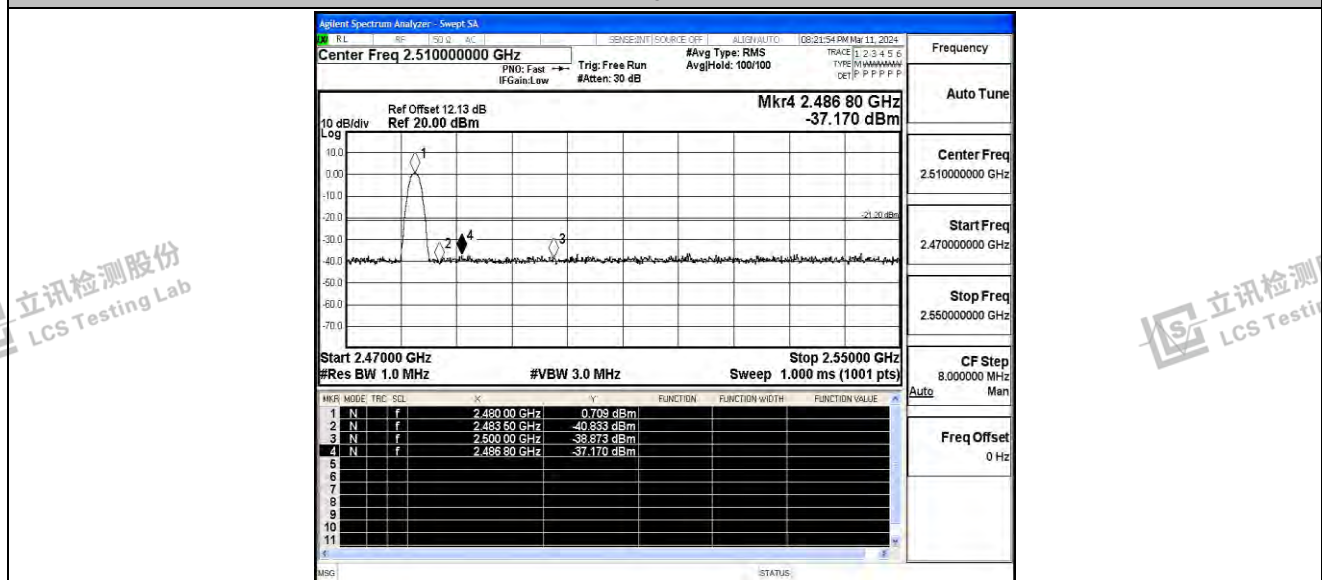
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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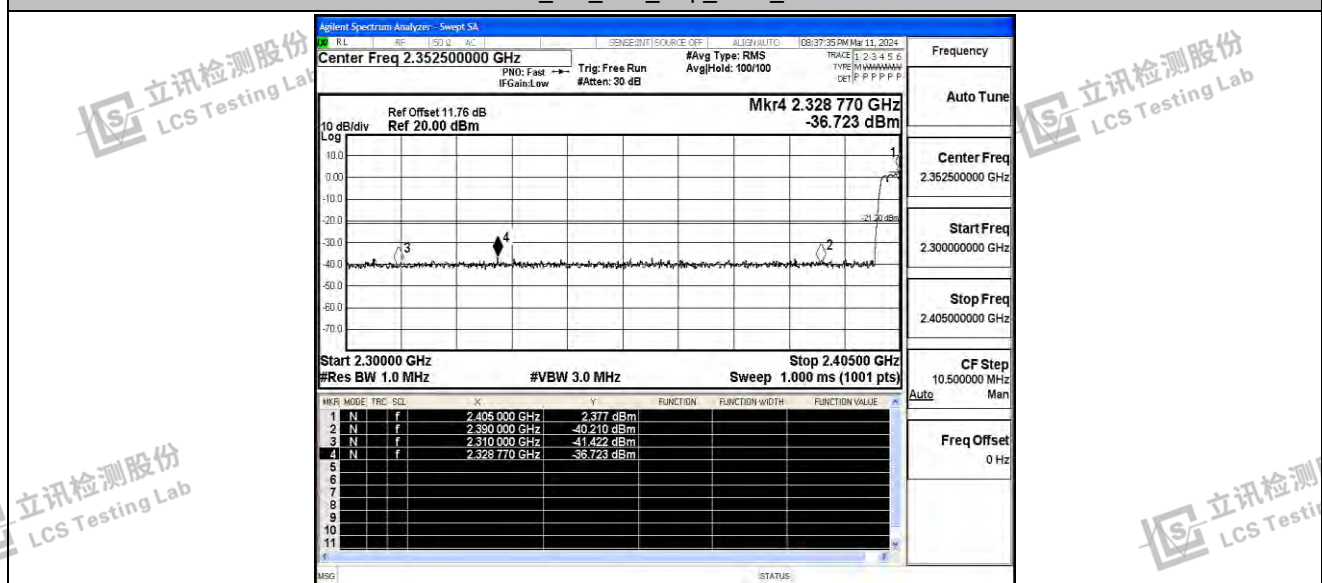
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DH5_Ant_High_2480_Peak



DH5_Ant_Low_Hop_2402_Peak



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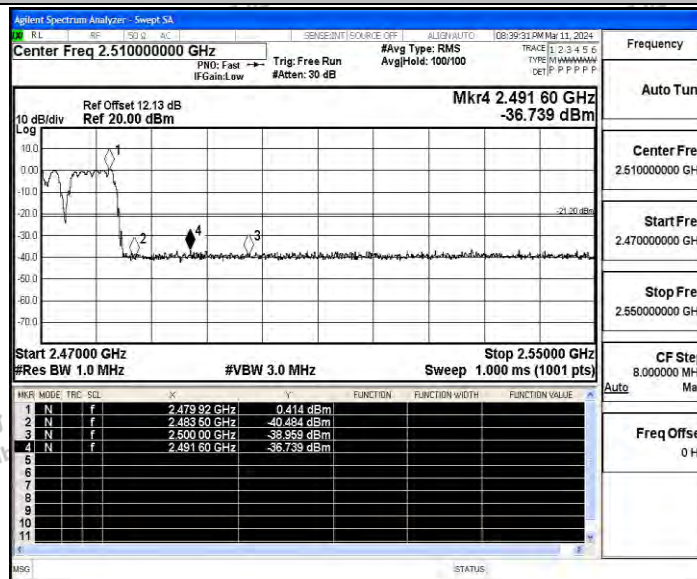
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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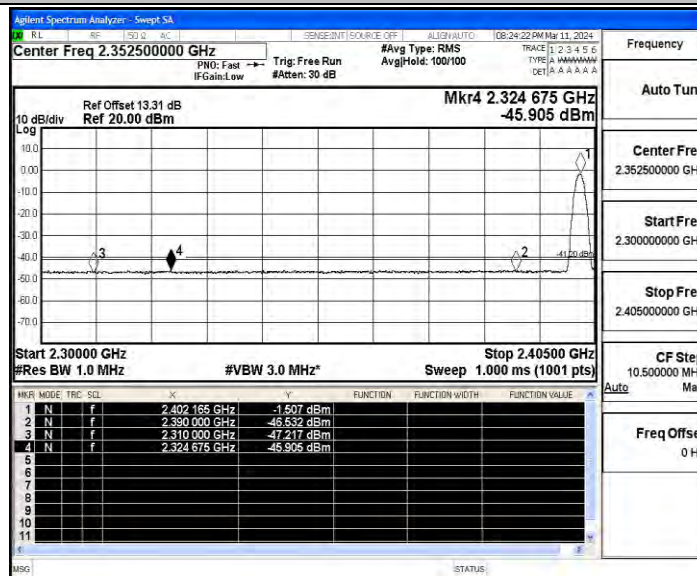
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DH5_Ant_High_Hop_2480_Peak



2DH5_Ant_Low_2402_AV



2DH5_Ant_Low_2402_Peak

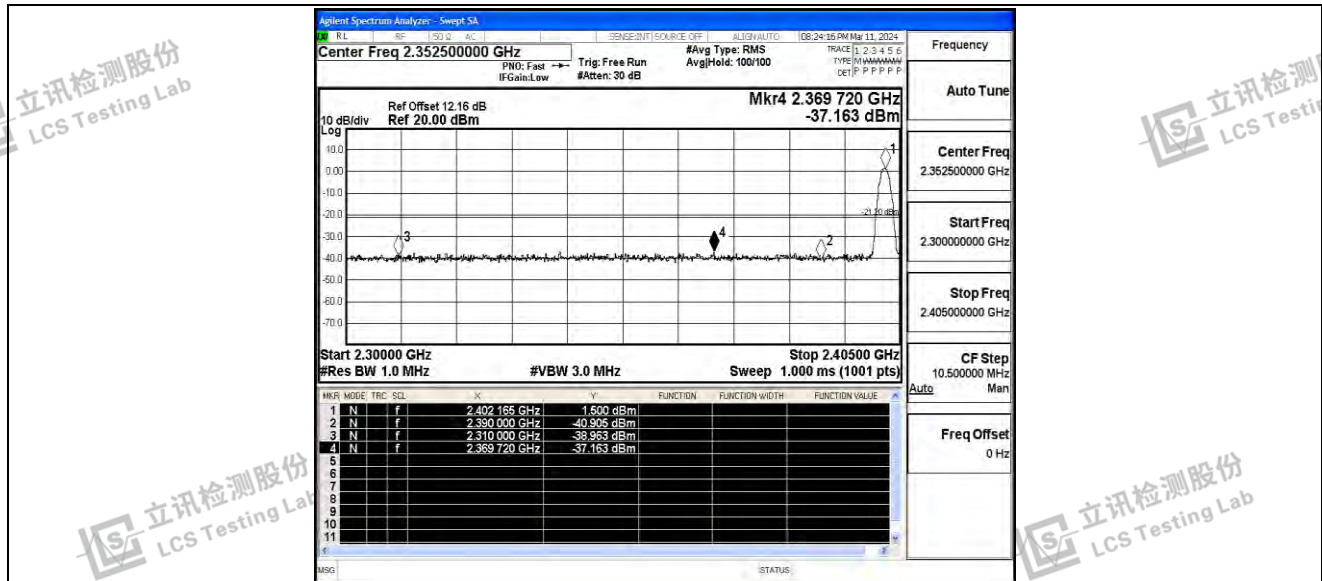


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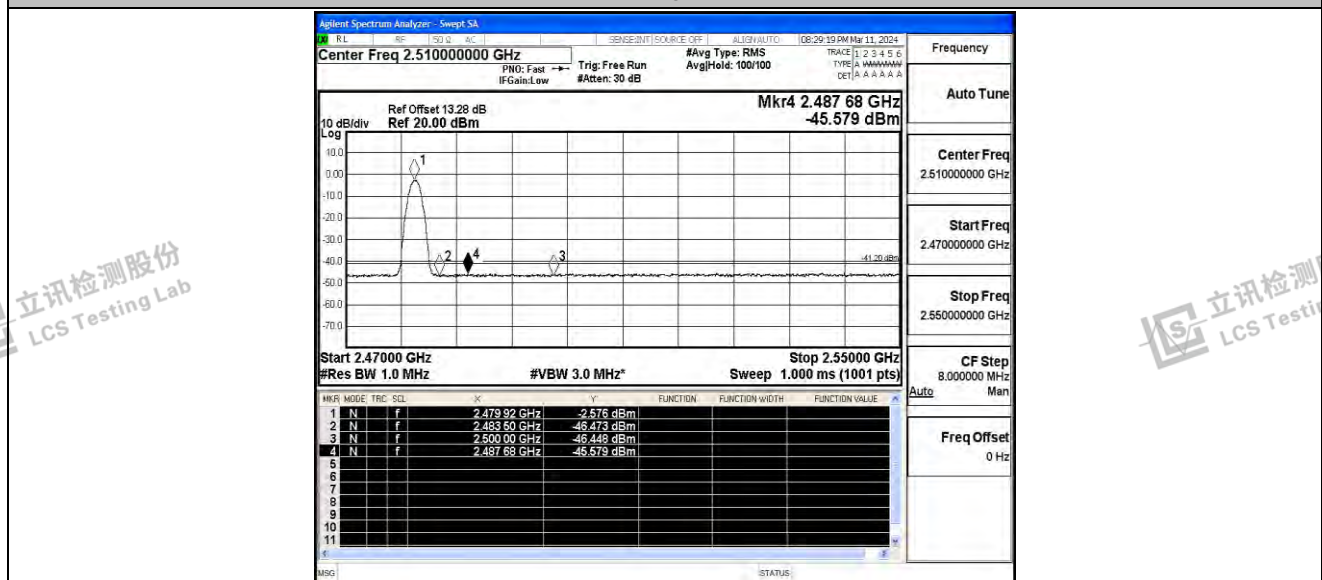
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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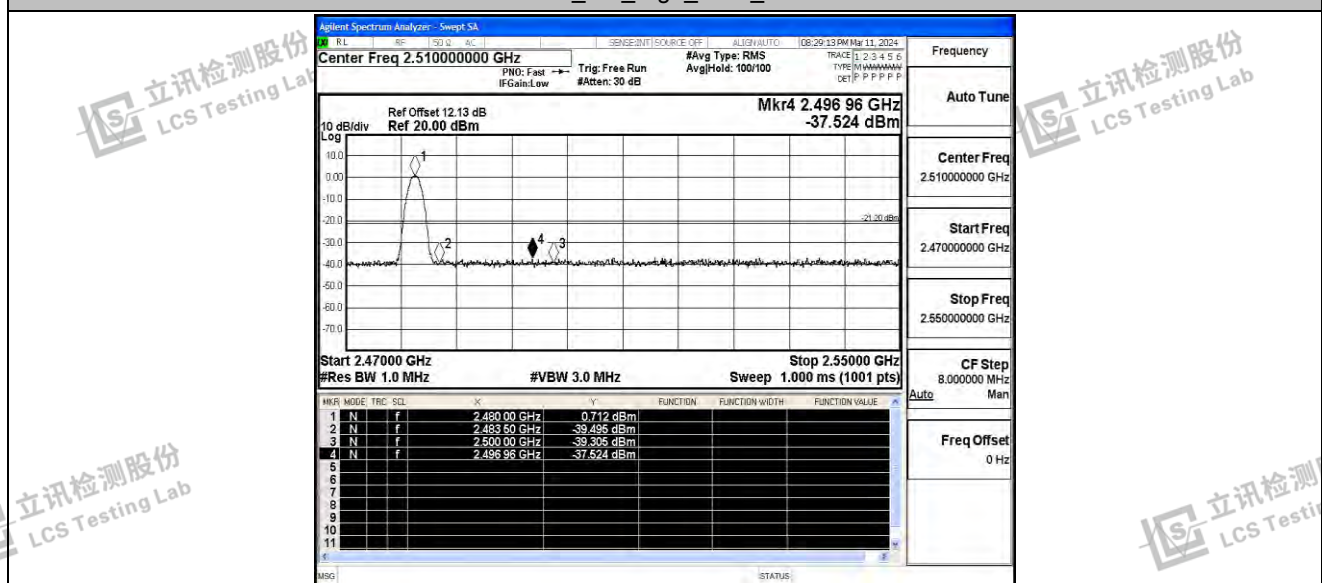
Scan code to check authenticity



2DH5_Ant_High_2480_AV



2DH5_Ant_High_2480_Peak



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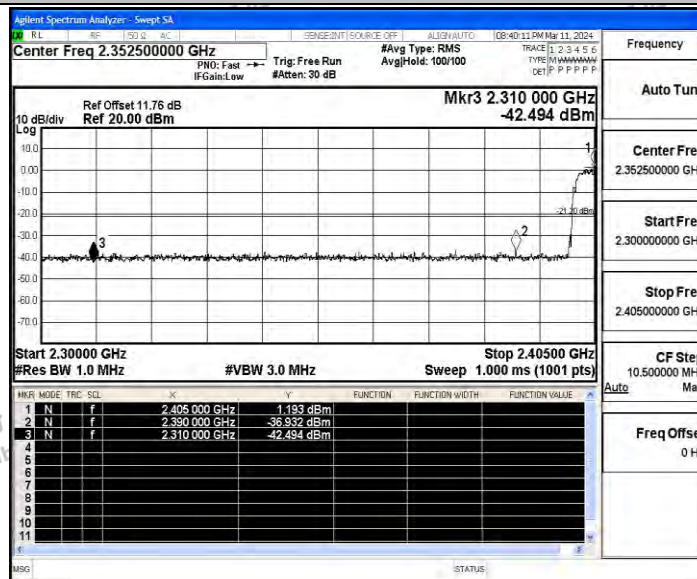
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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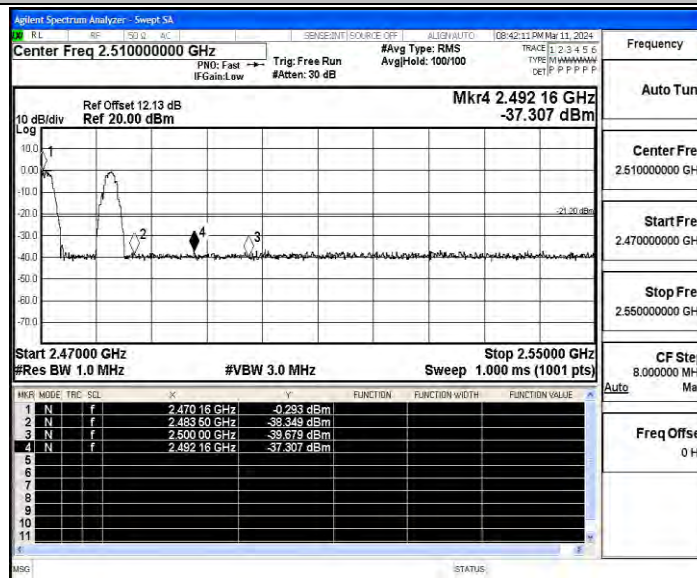
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2DH5_Ant_Low_Hop_2402_Peak



2DH5_Ant_High_Hop_2480_Peak



3DH5_Ant_Low_2402_AV

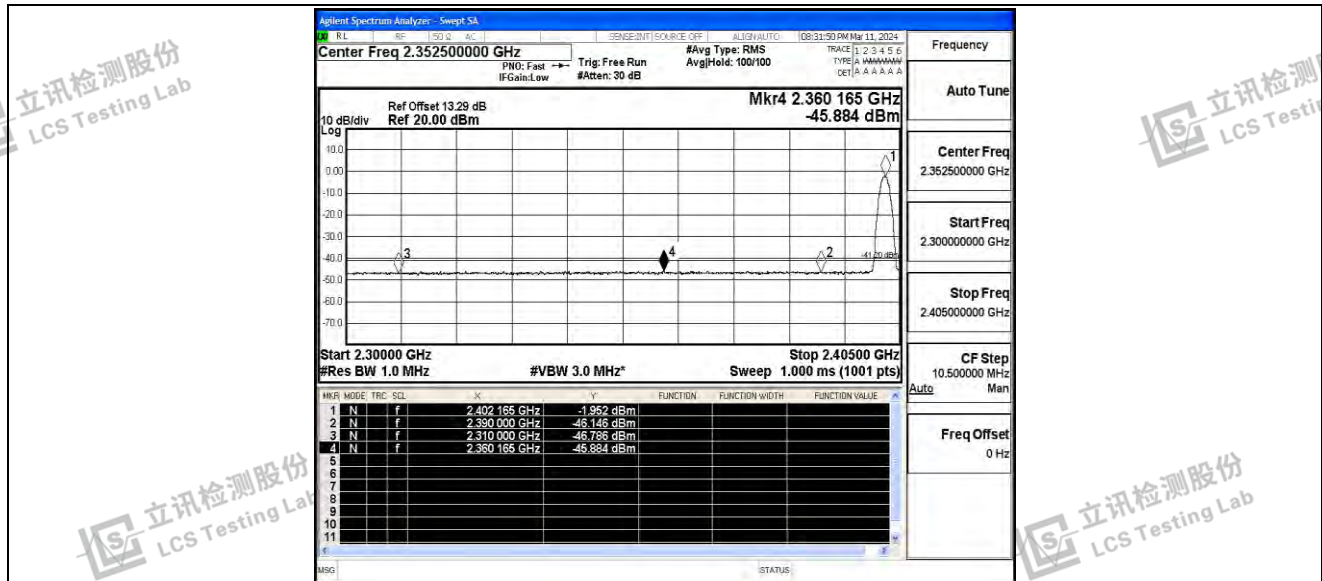


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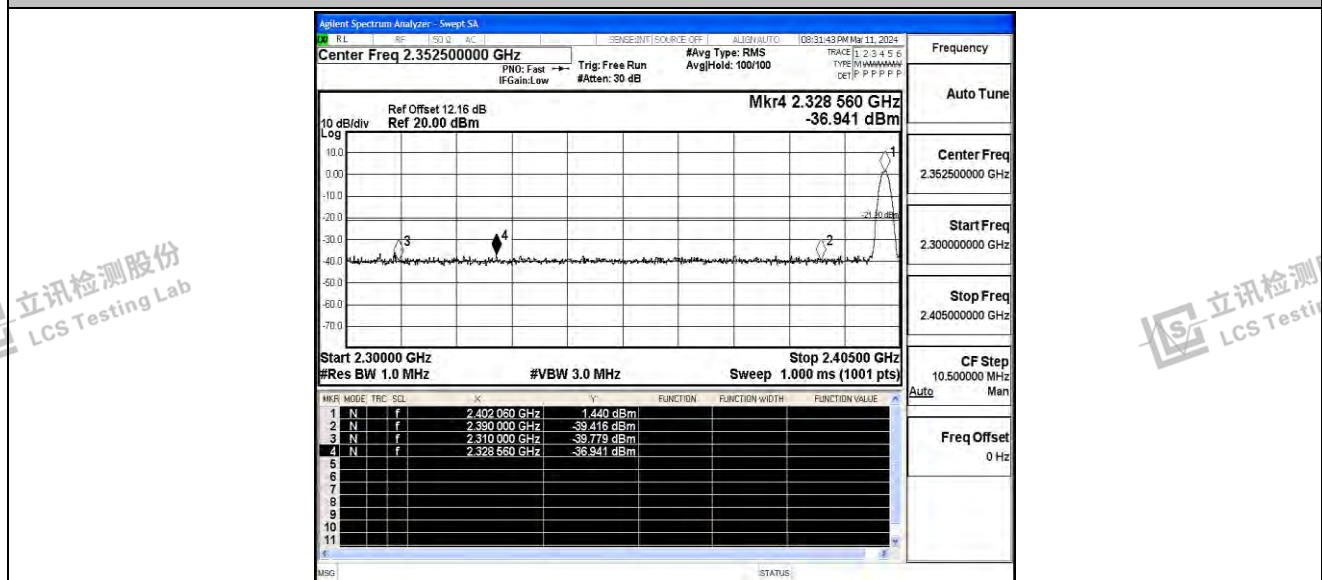
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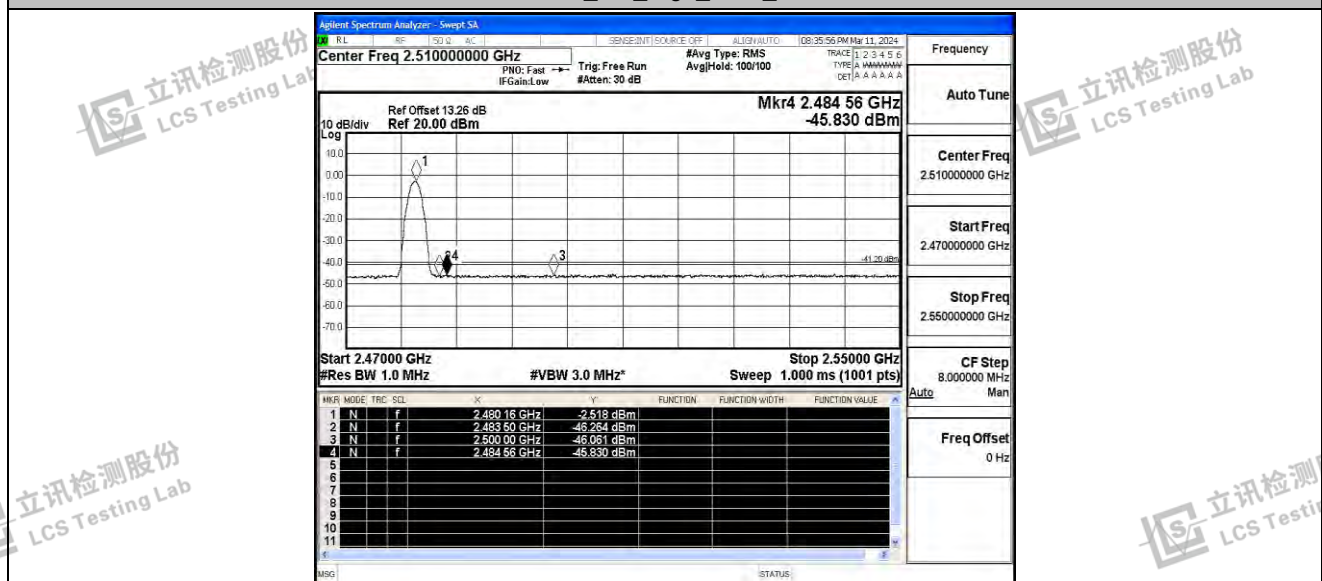
Scan code to check authenticity



3DH5_Ant_Low_2402_Peak



3DH5_Ant_High_2480_AV



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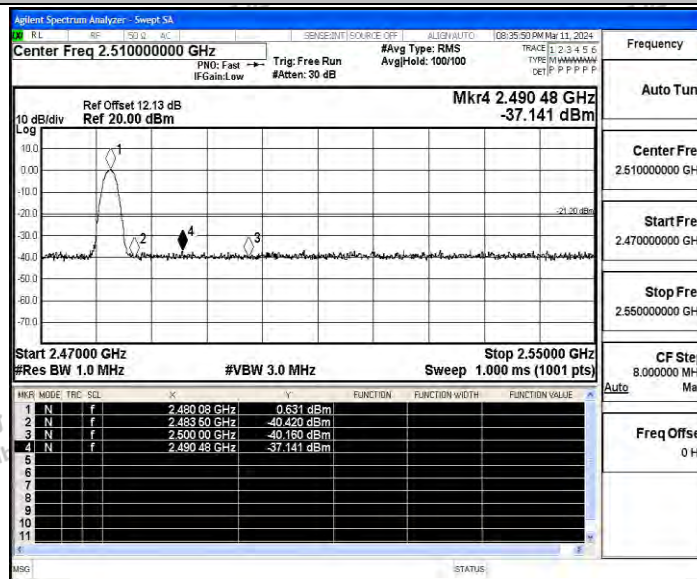
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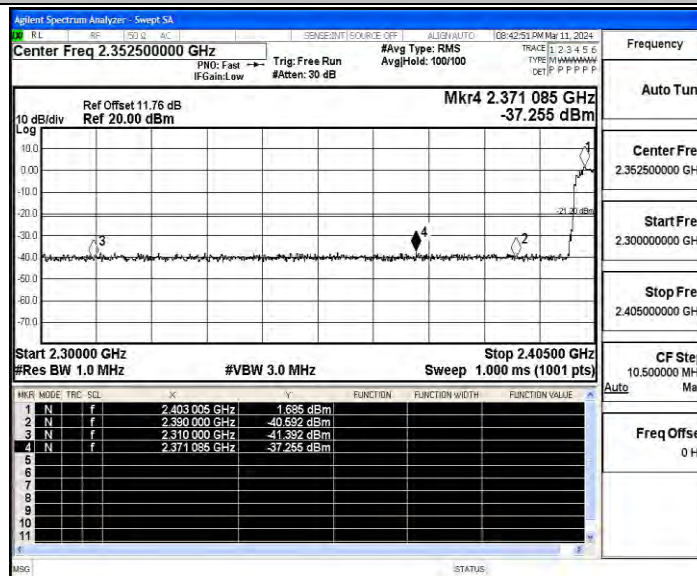
Scan code to check authenticity



3DH5_Ant_High_2480_Peak



3DH5_Ant_Low_Hop_2402_Peak



3DH5_Ant_High_Hop_2480_Peak

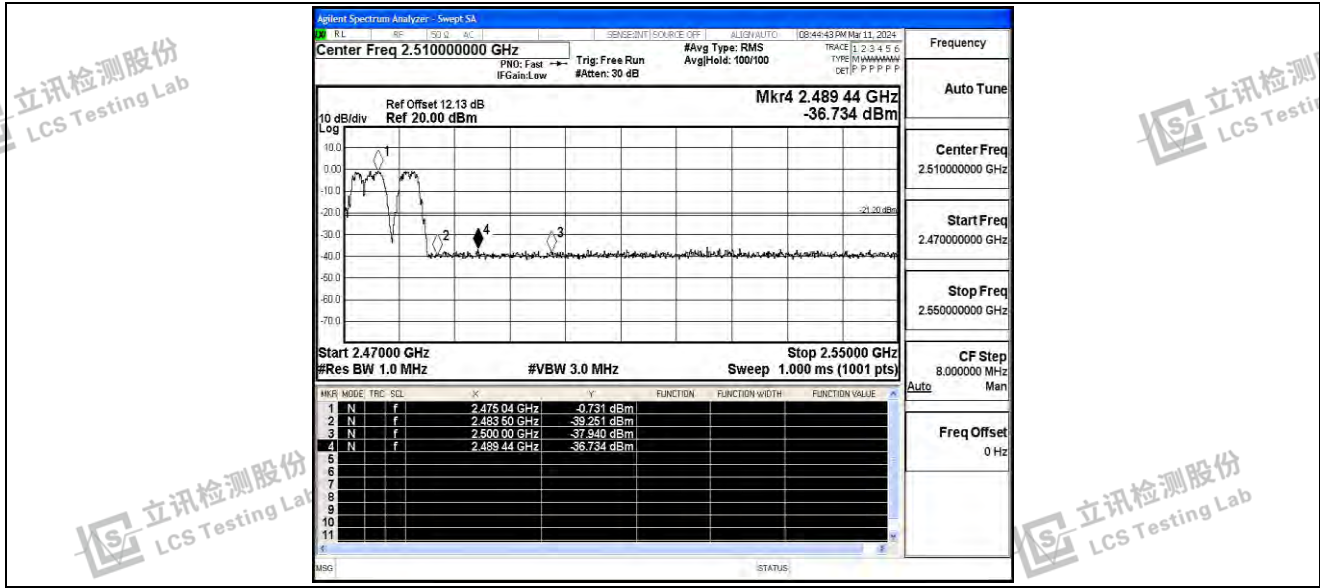


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