



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Game Controller

Test Model: HS-SW568

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	monkey.Li Monkey Li
Supervised by:	Li Huan Li Huan





A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.984	2401.502	2402.486	Pass
		2441	0.978	2440.508	2441.486	Pass
		2480	1.050	2479.445	2480.495	Pass
2DH5	Ant1	2402	1.284	2401.349	2402.633	Pass
		2441	1.329	2440.319	2441.648	Pass
		2480	1.356	2479.310	2480.666	Pass
3DH5	Ant1	2402	1.284	2401.343	2402.627	Pass
		2441	1.302	2440.334	2441.636	Pass
		2480	1.305	2479.331	2480.636	Pass



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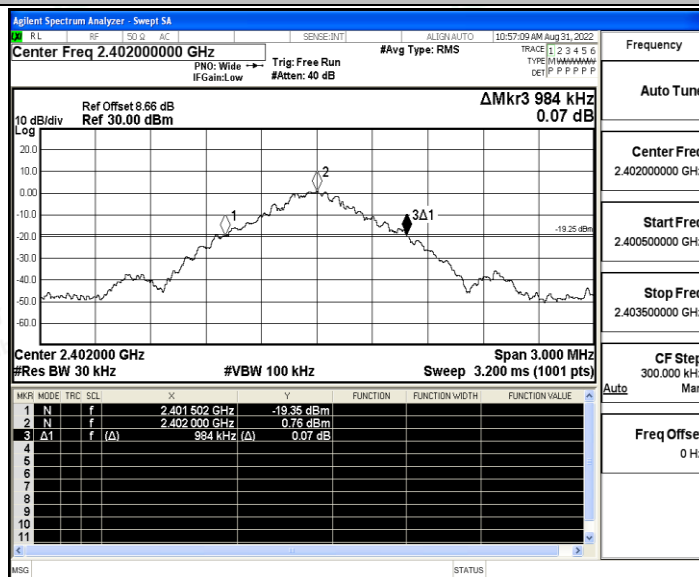
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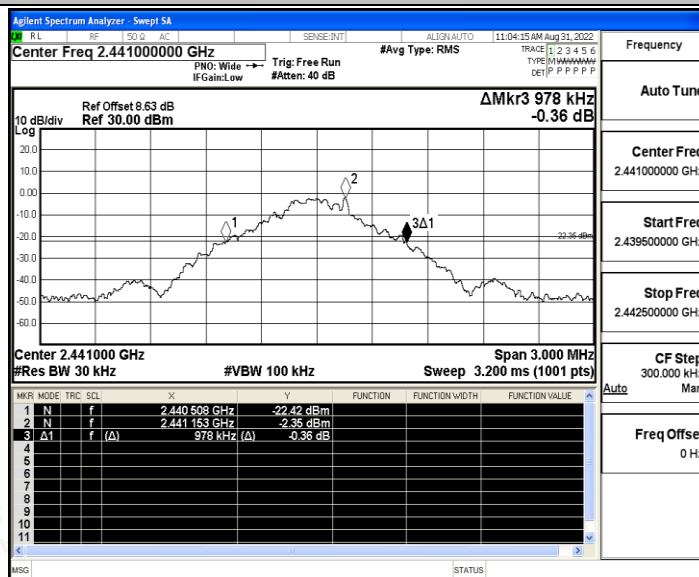


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

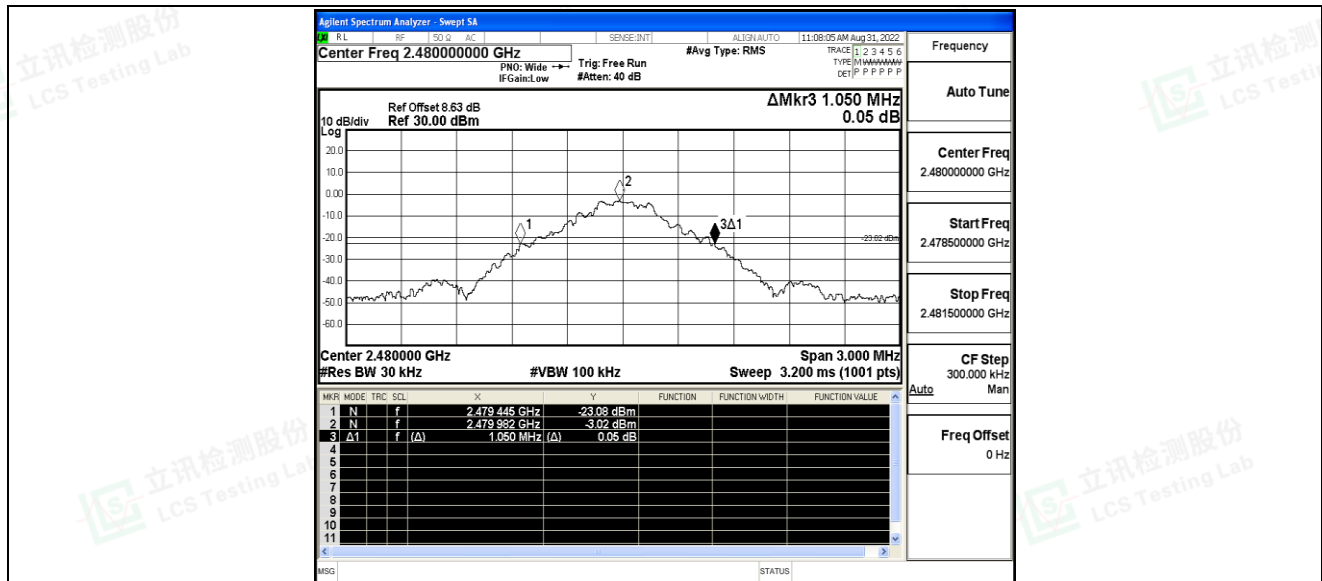


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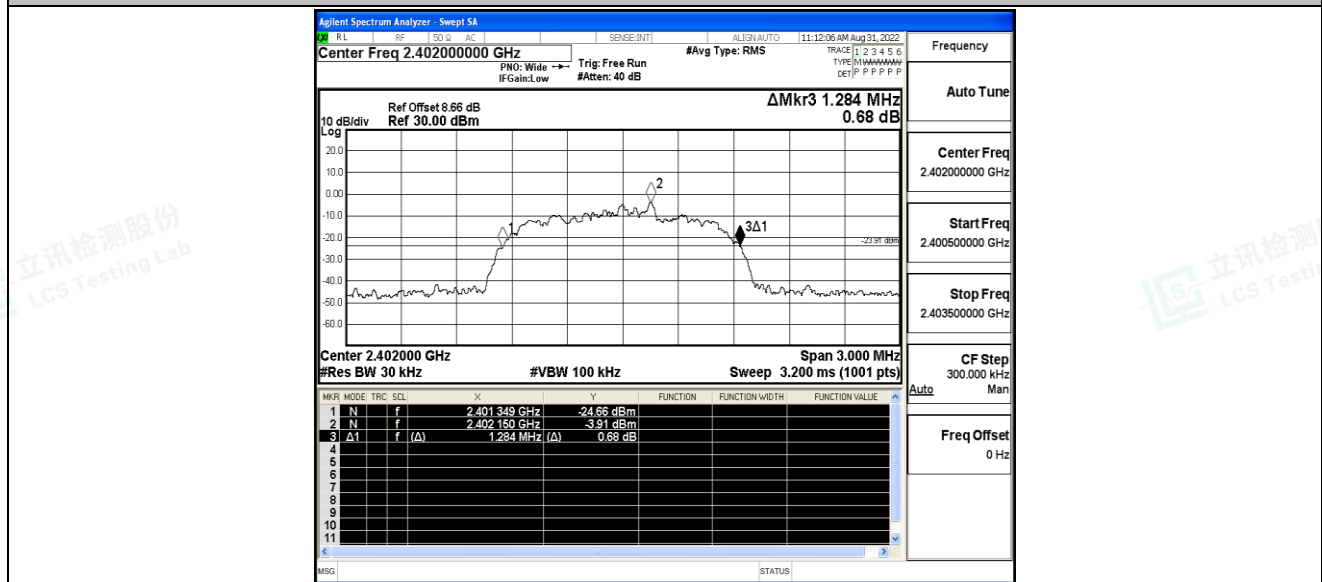
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2DH5_Ant1_2402



2DH5_Ant1_2441

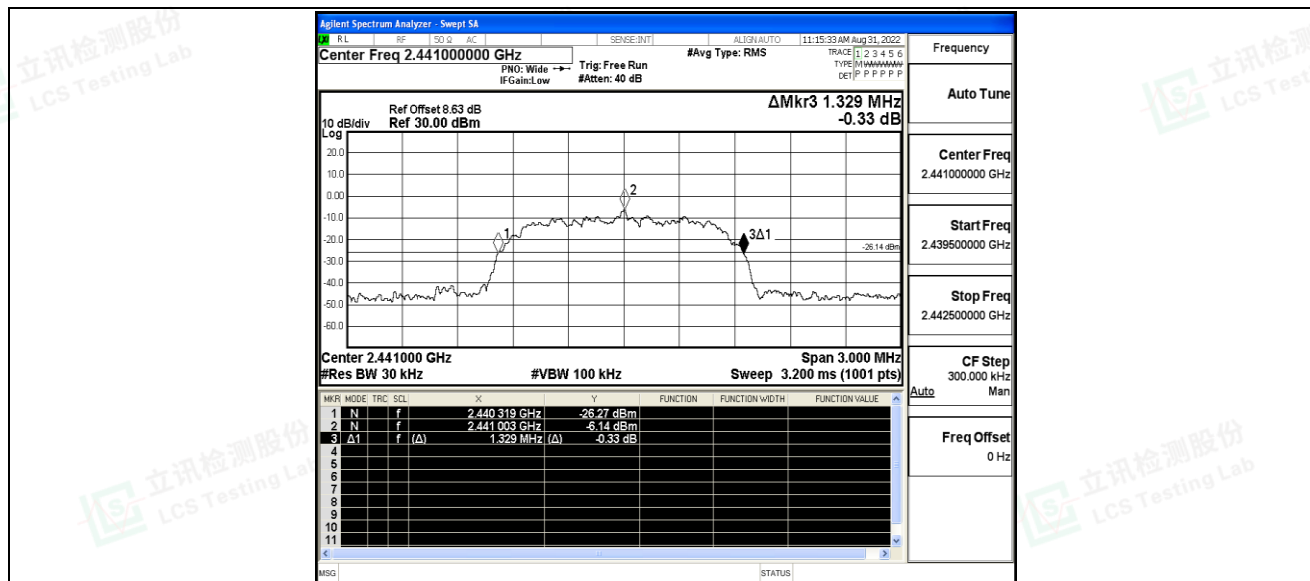


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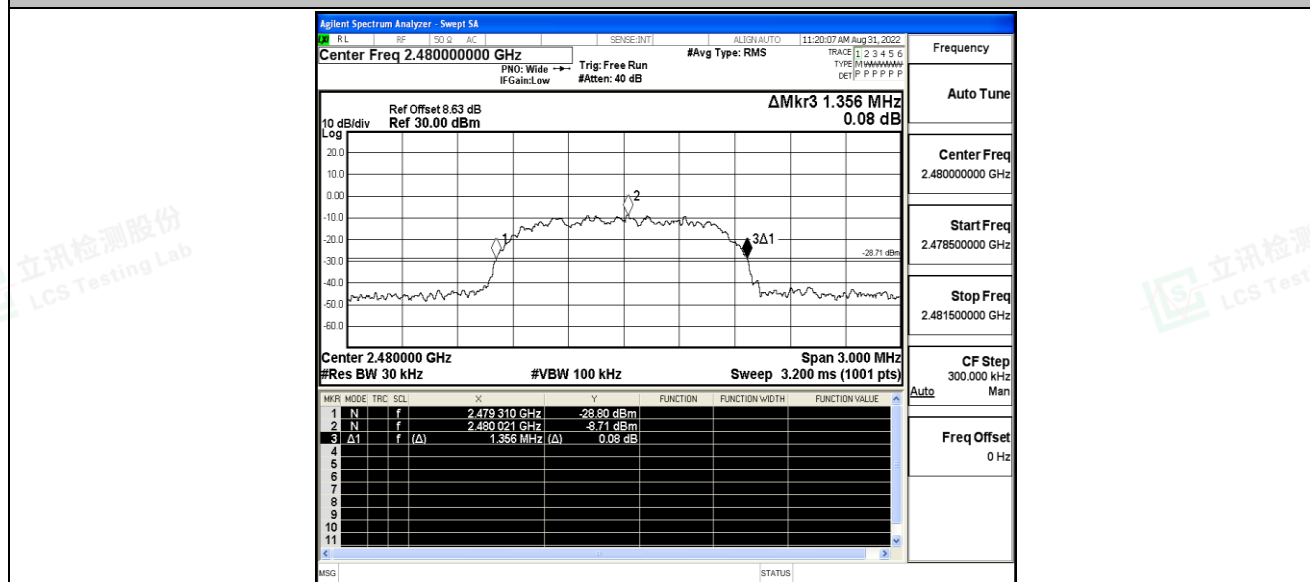
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2DH5_Ant1_2480



3DH5_Ant1_2402

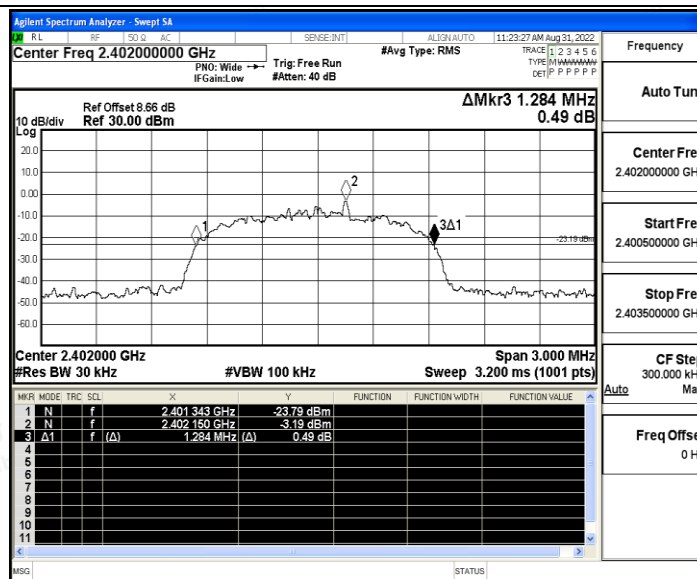


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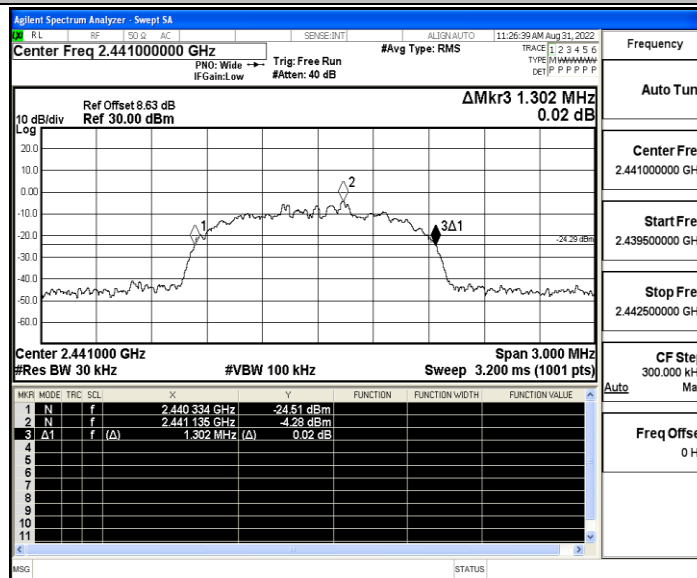
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3DH5_Ant1_2441



3DH5_Ant1_2480

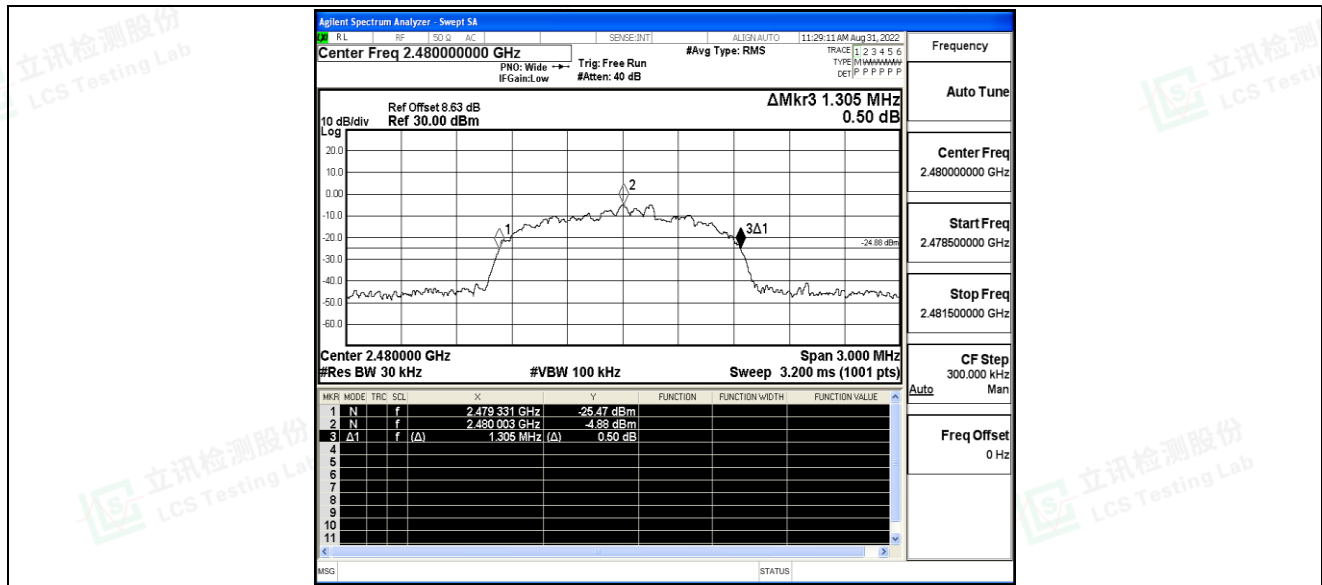


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.65	≤20.97	PASS
		2441	0.56	≤20.97	PASS
		2480	0.48	≤20.97	PASS
2DH5	Ant1	2402	0.17	≤20.97	PASS
		2441	0.27	≤20.97	PASS
		2480	0.09	≤20.97	PASS
3DH5	Ant1	2402	0.72	≤20.97	PASS
		2441	0.79	≤20.97	PASS
		2480	0.17	≤20.97	PASS



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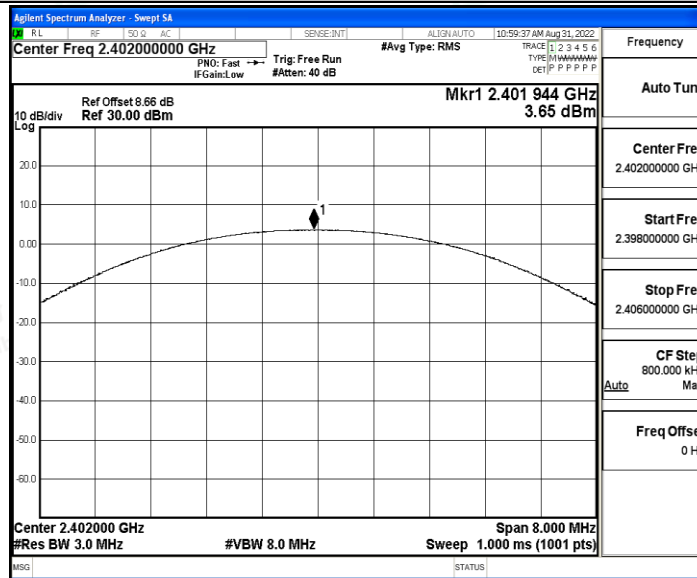
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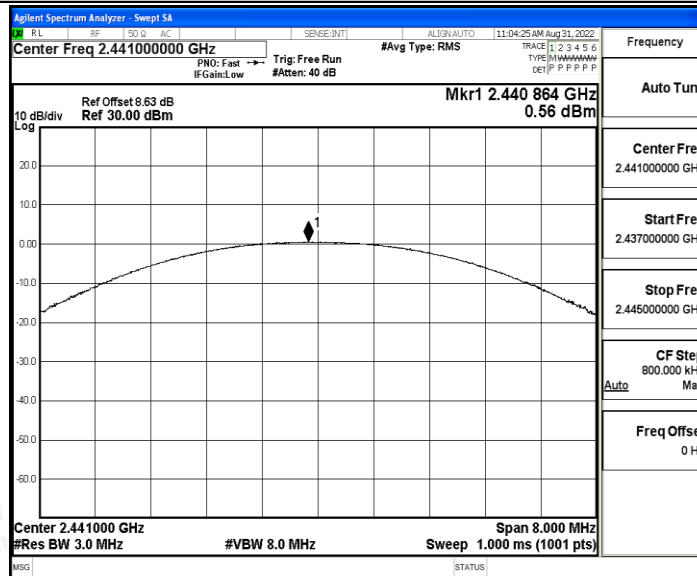


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

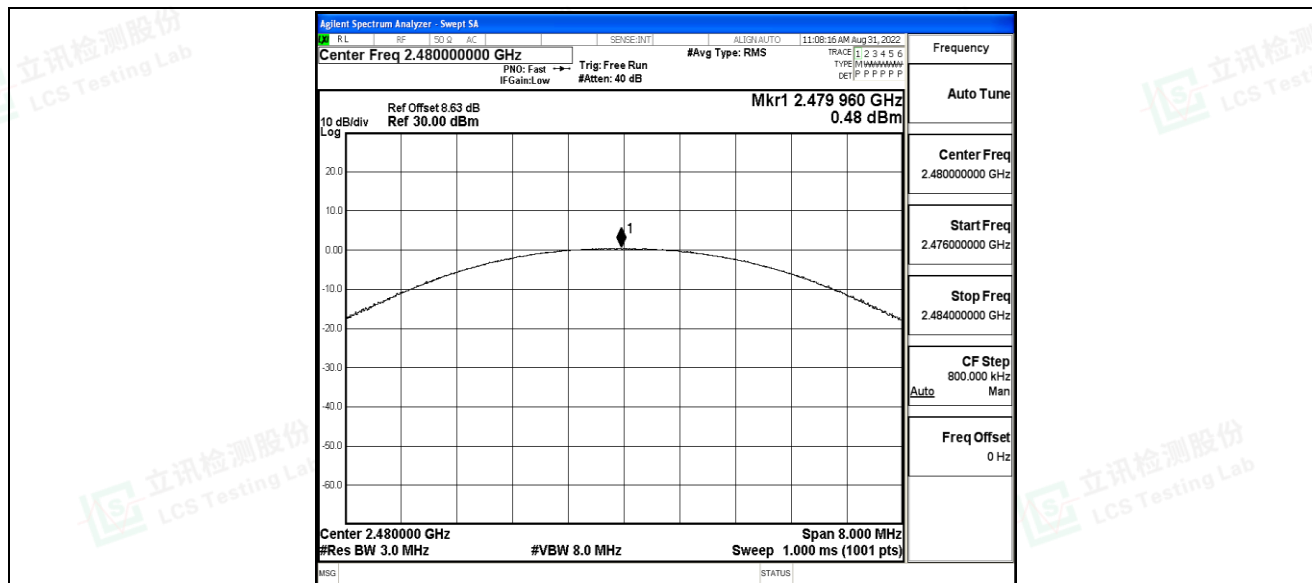


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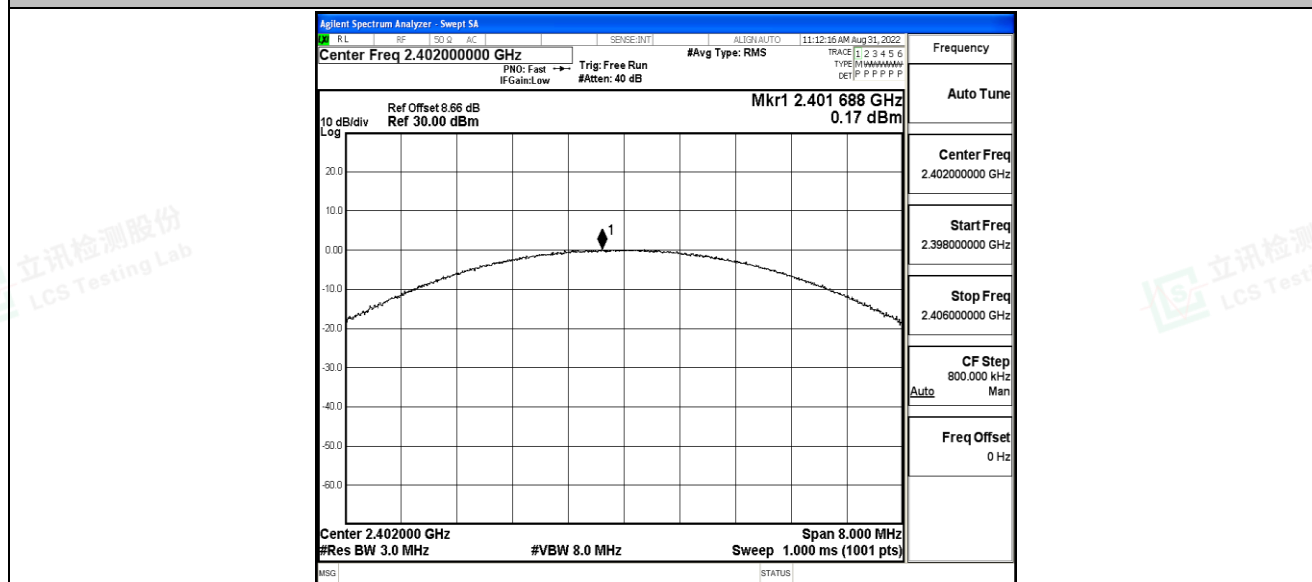
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2DH5_Ant1_2402



2DH5_Ant1_2441

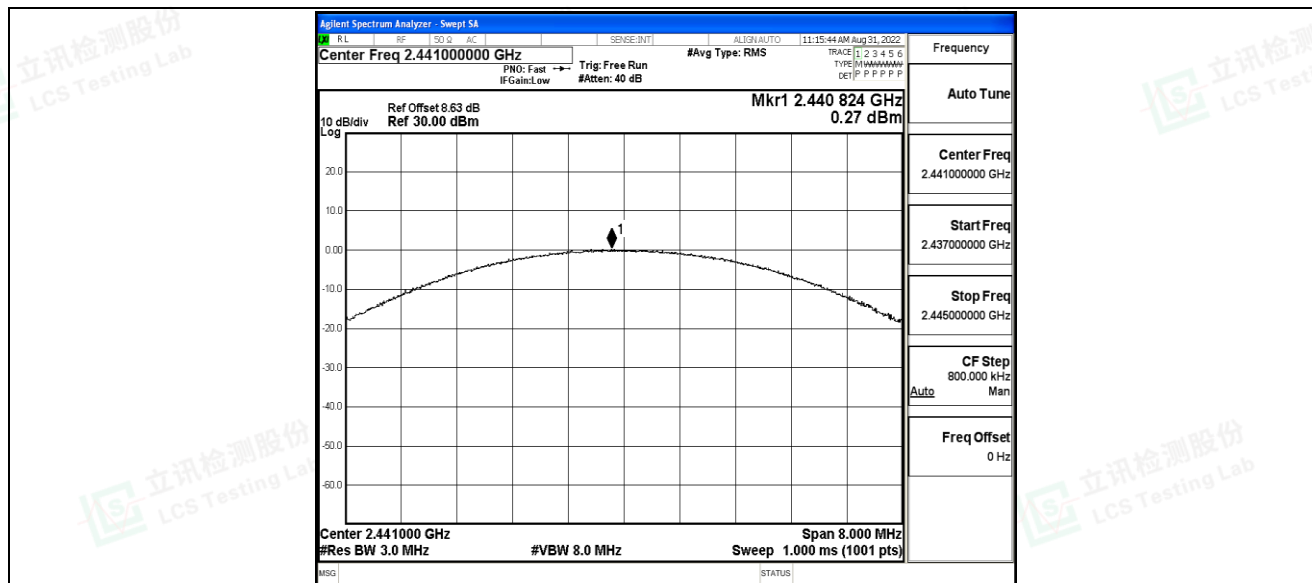


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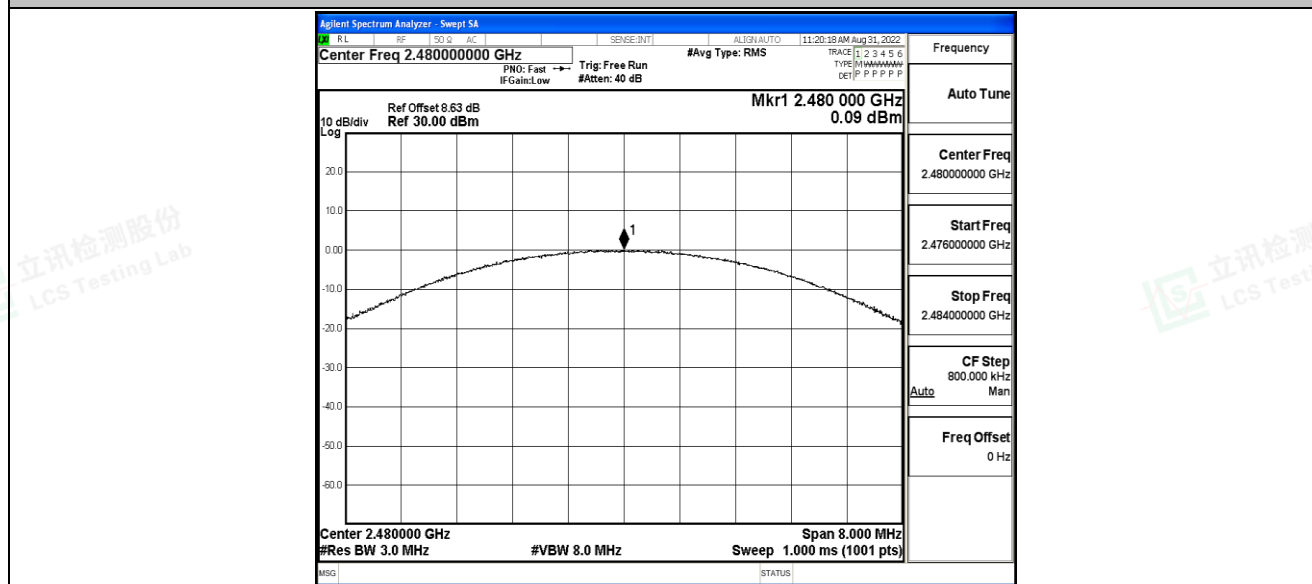
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2DH5_Ant1_2480



3DH5_Ant1_2402

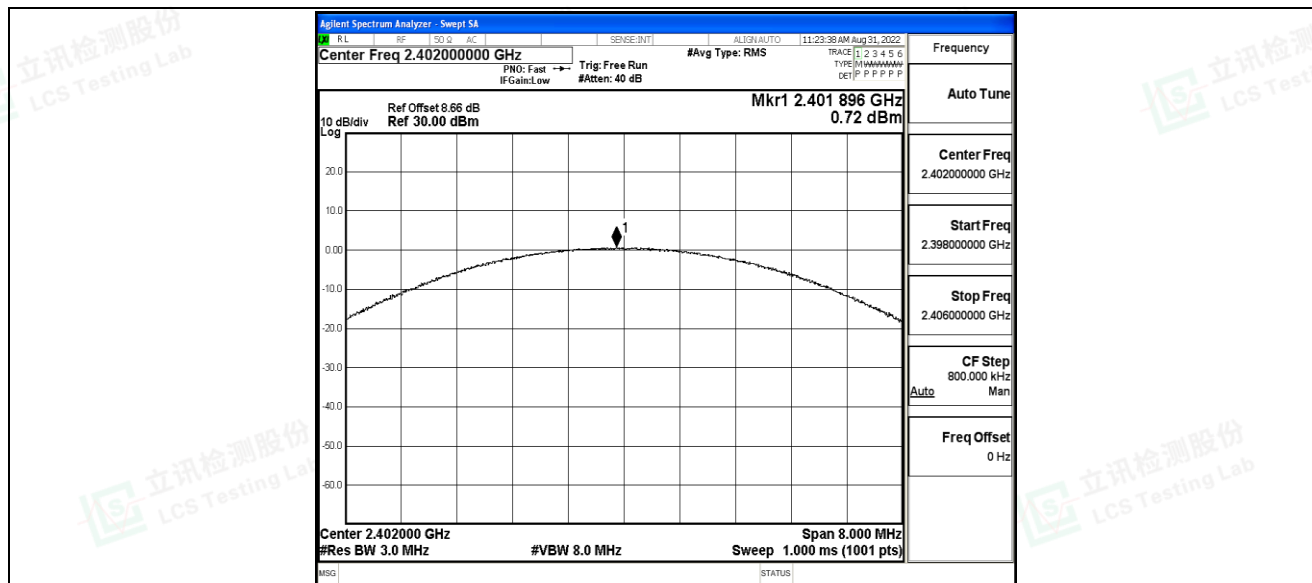


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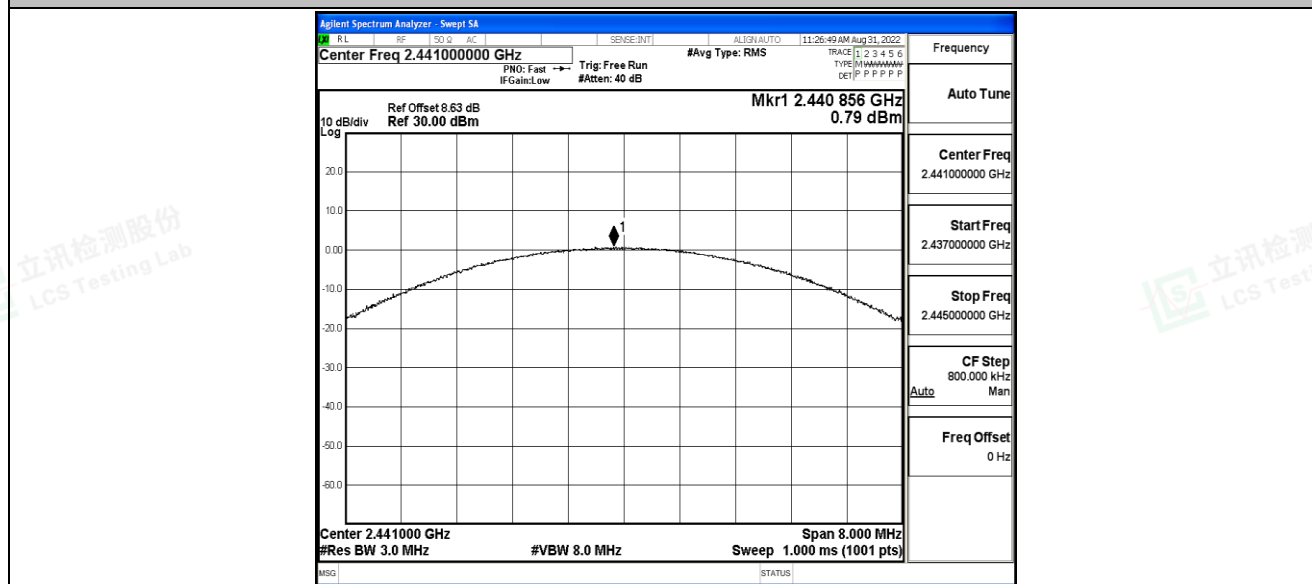
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3DH5_Ant1_2441



3DH5_Ant1_2480

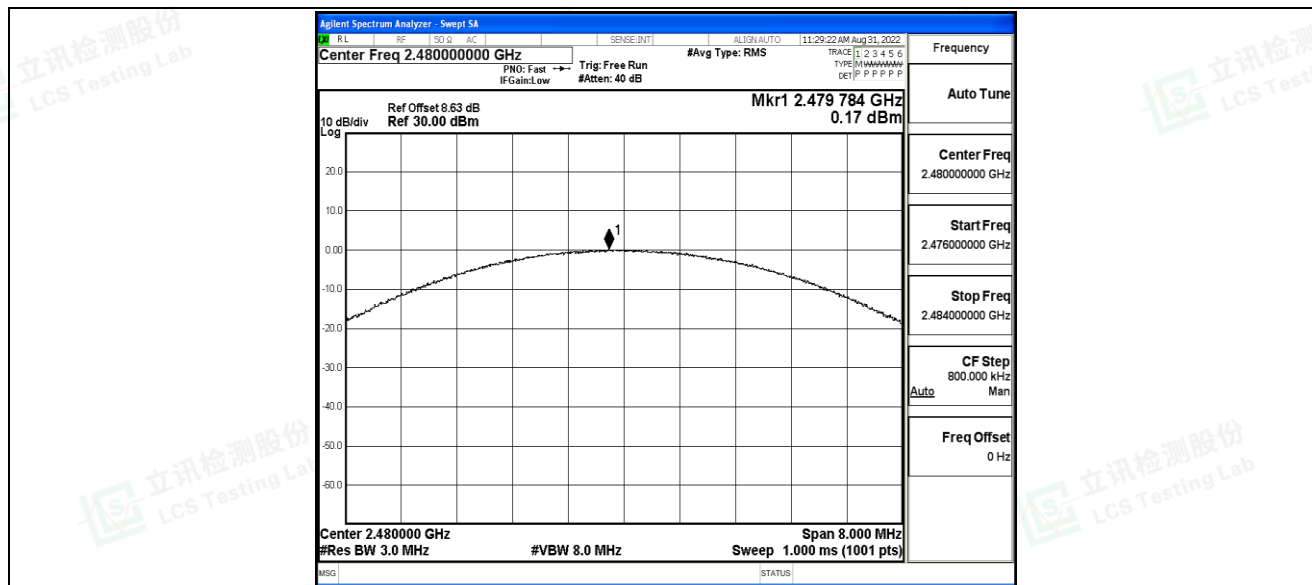


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.988	≥0.700	PASS
2DH5	Ant1	Hop	1.124	≥0.904	PASS
3DH5	Ant1	Hop	0.926	≥0.870	PASS



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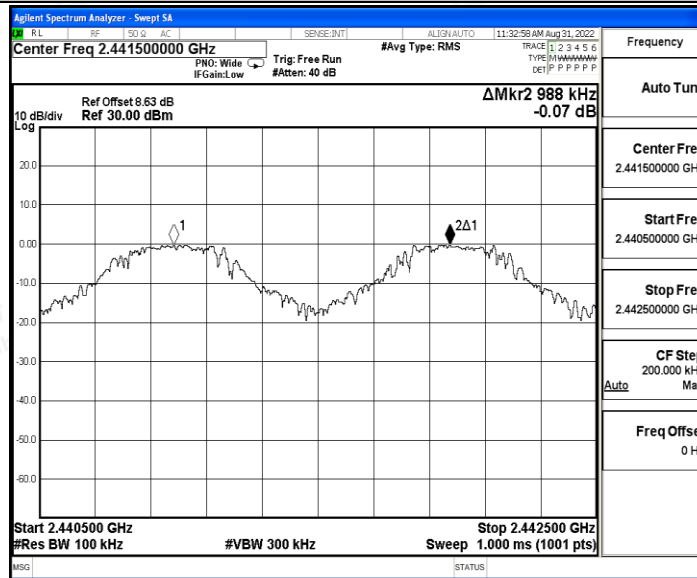
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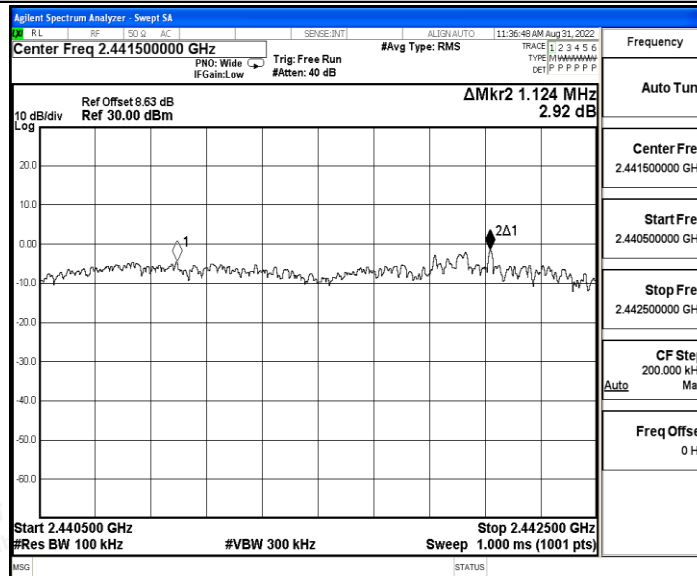


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

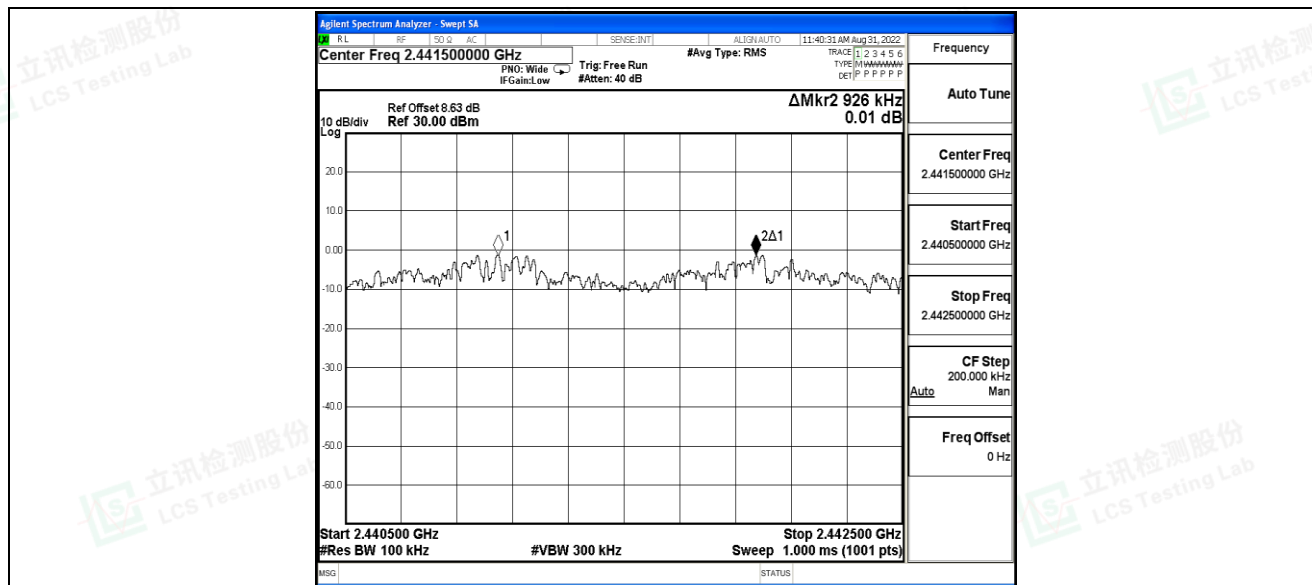


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A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS



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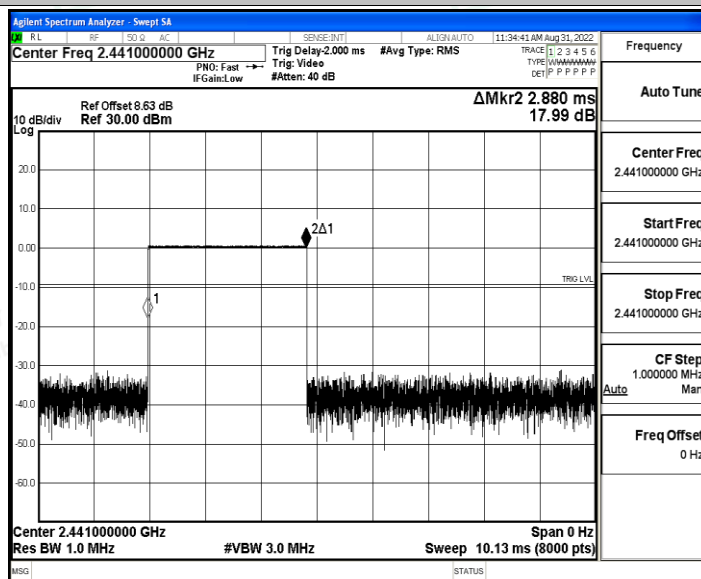
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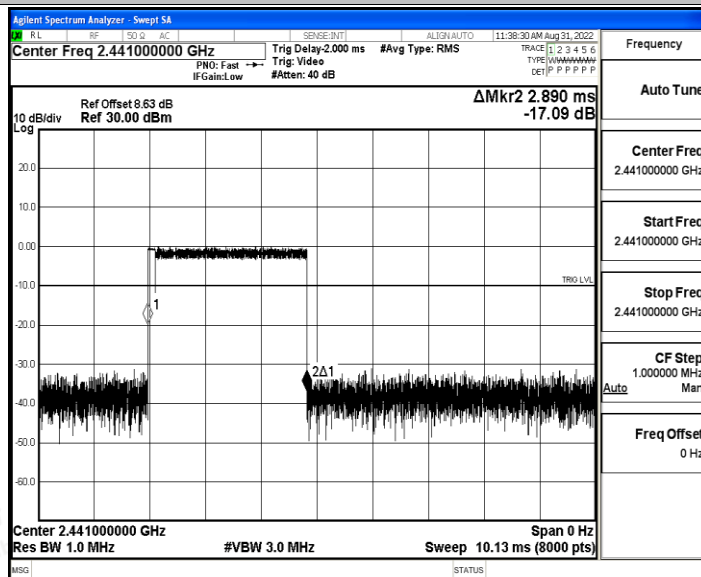


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

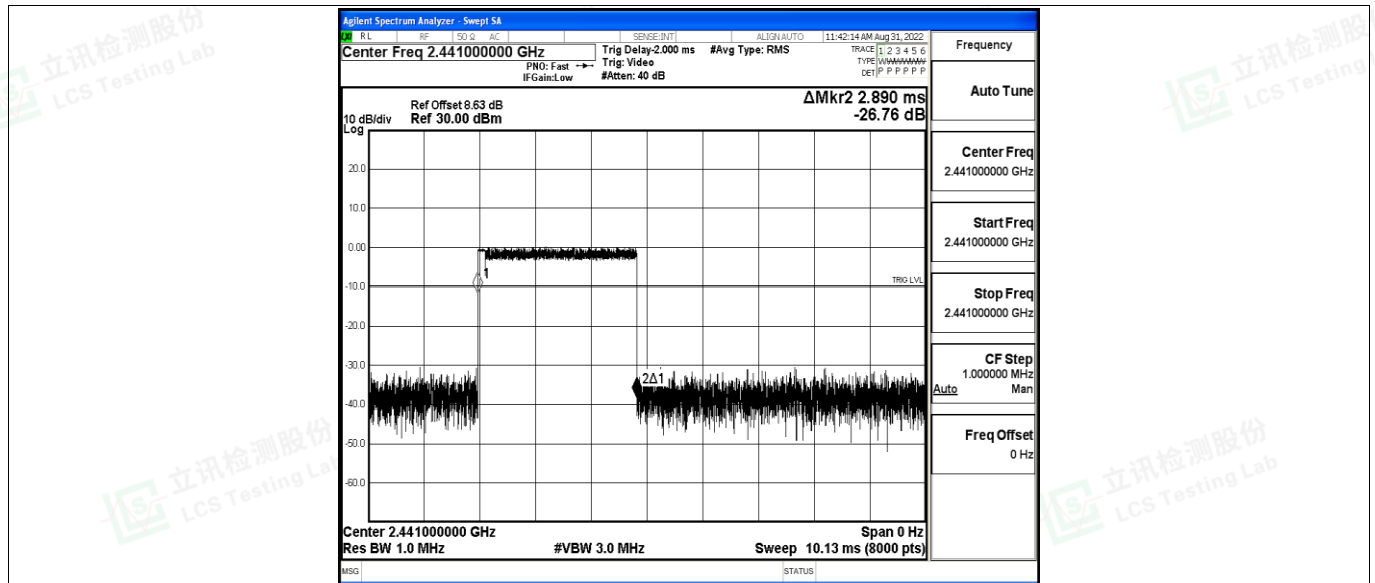


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A.5 Number of hopping channels

Test Result

TestMode	Antenna	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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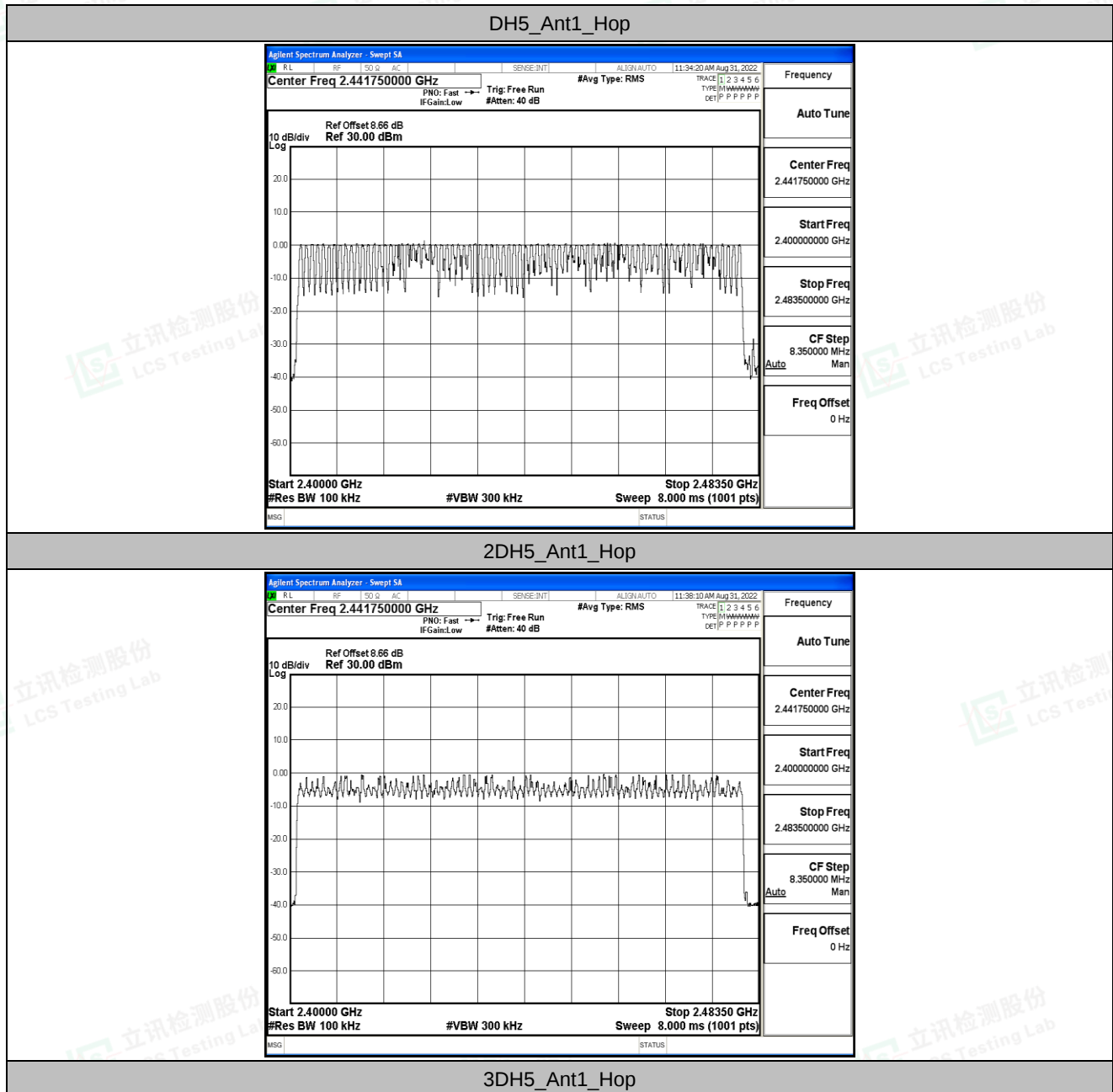
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Test Graphs

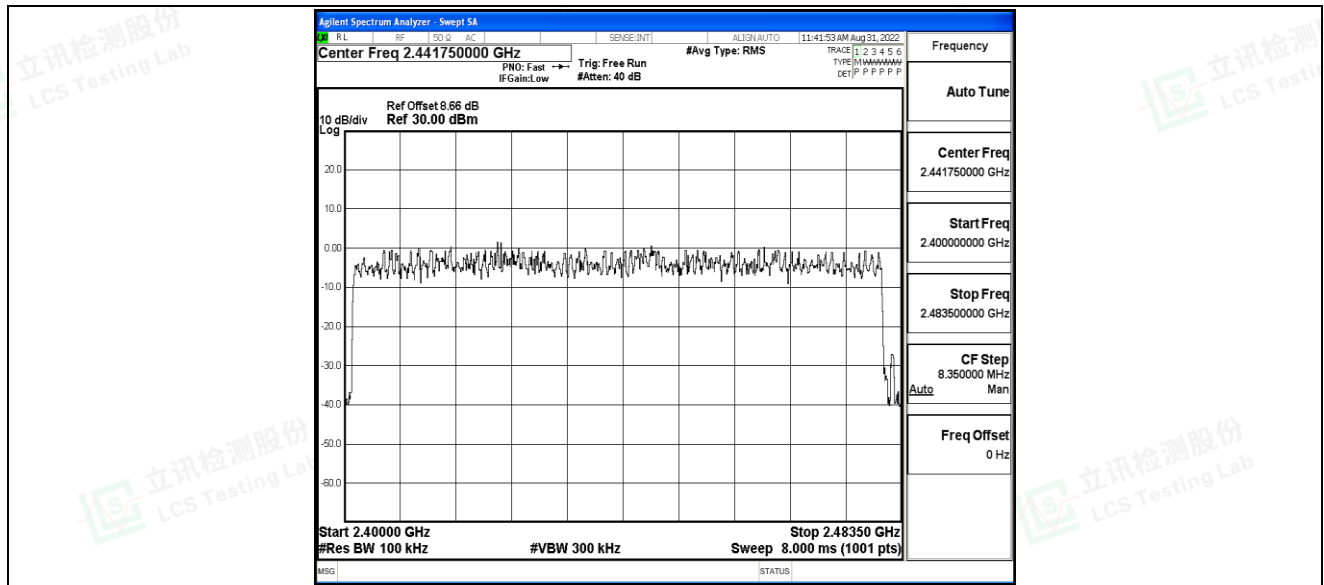


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.08	-48.71	≤ -16.92	PASS
		High	2480	-1.06	-58.91	≤ -21.06	PASS
		Low	Hop_2402	-0.61	-58.78	≤ -20.61	PASS
		High	Hop_2480	0.16	-56.87	≤ -19.84	PASS
2DH5	Ant1	Low	2402	-1.57	-58.64	≤ -21.57	PASS
		High	2480	-2.77	-58.49	≤ -22.77	PASS
		Low	Hop_2402	-4.48	-58.99	≤ -24.48	PASS
		High	Hop_2480	-1.40	-50.45	≤ -21.4	PASS
3DH5	Ant1	Low	2402	-5.11	-56.27	≤ -25.11	PASS
		High	2480	-3.30	-57.4	≤ -23.3	PASS
		Low	Hop_2402	-4.74	-58.98	≤ -24.74	PASS
		High	Hop_2480	-1.04	-57.67	≤ -21.04	PASS



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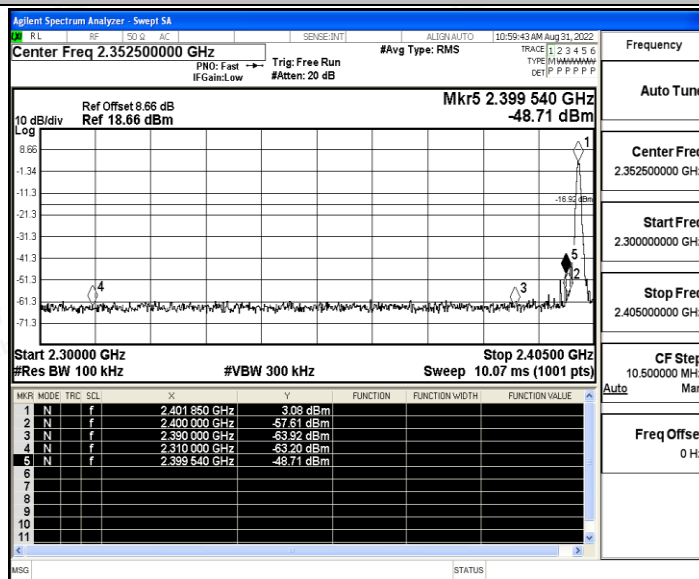
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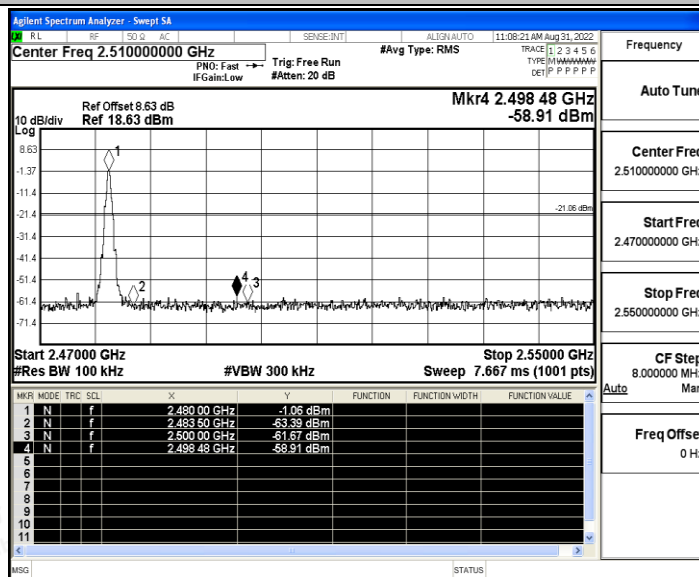


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

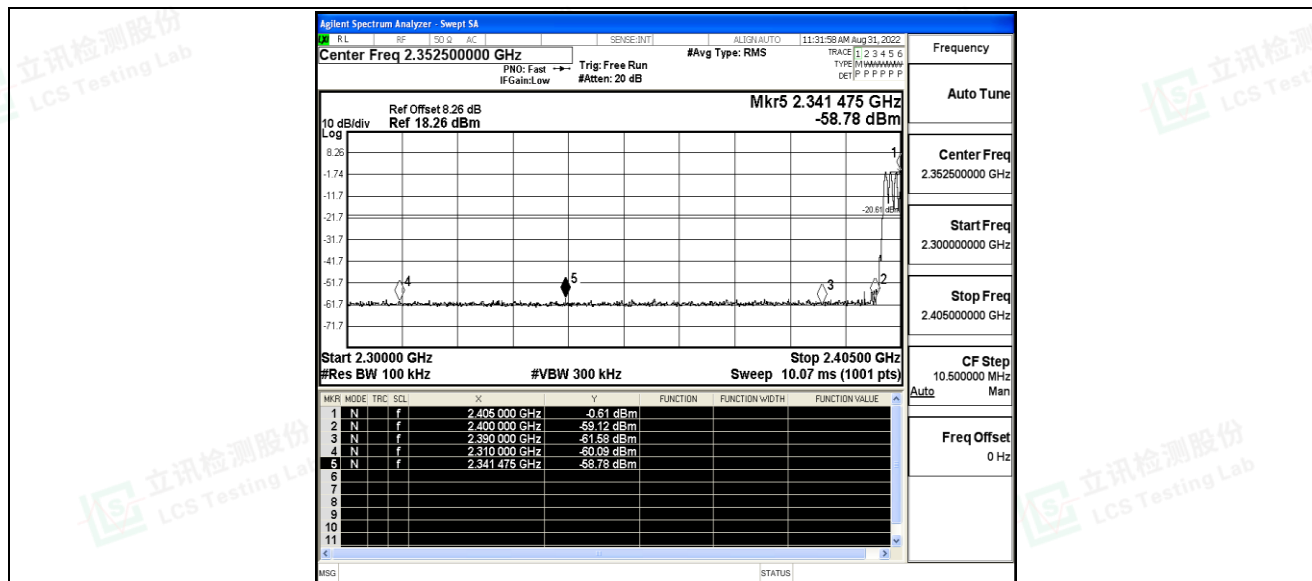


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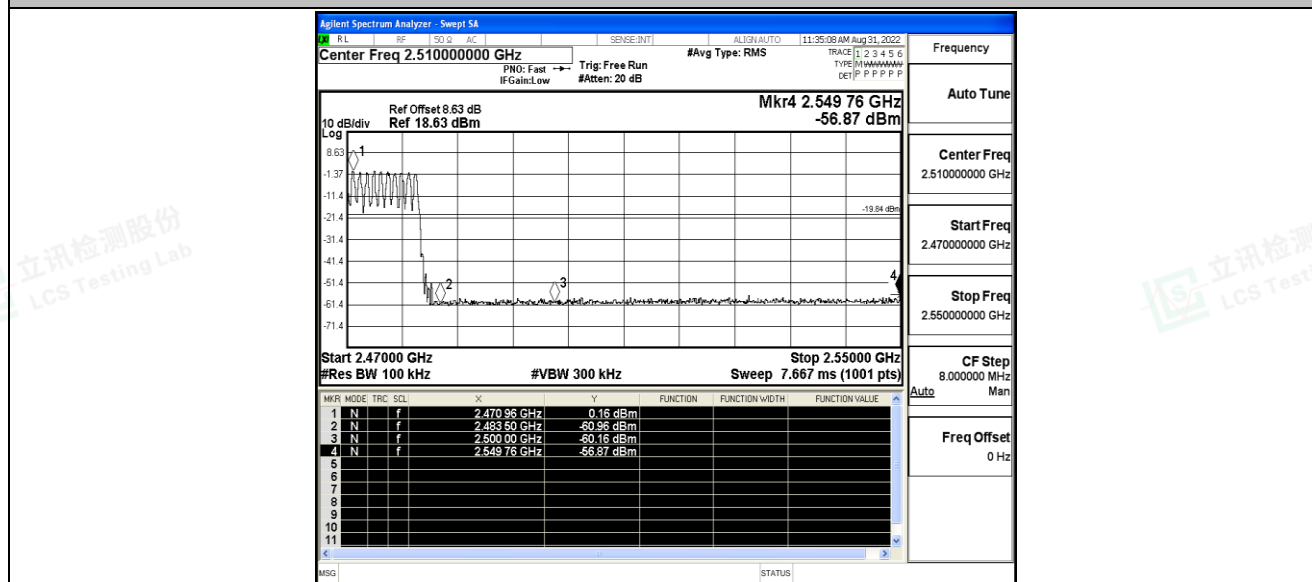
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

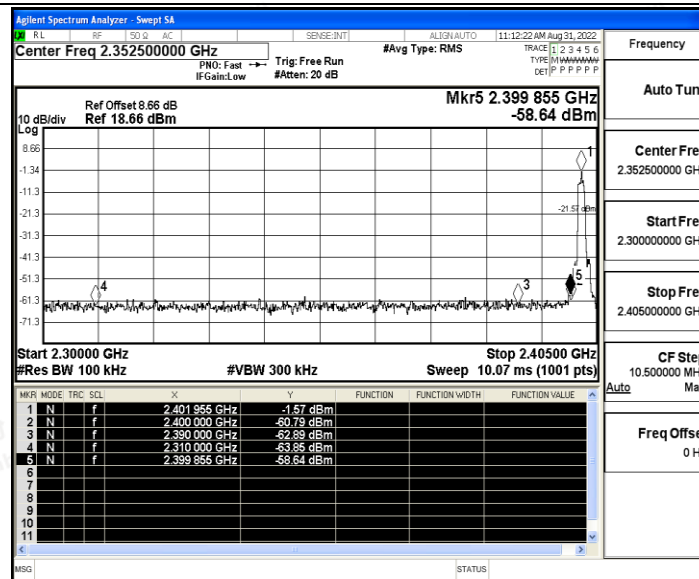


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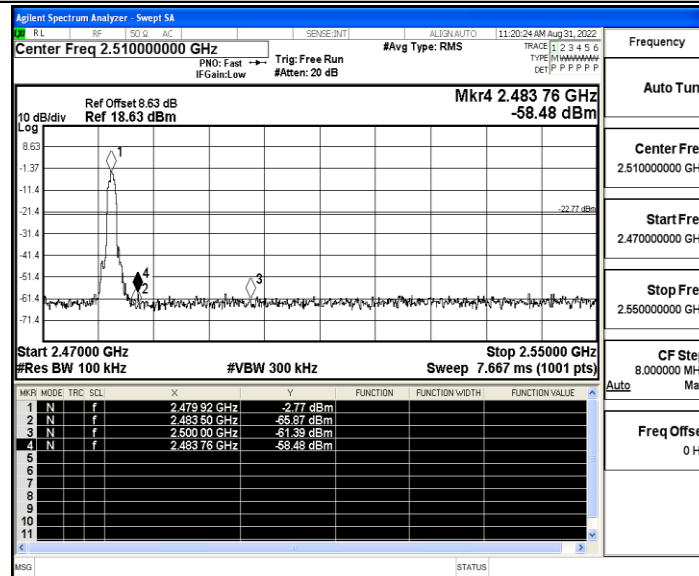
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

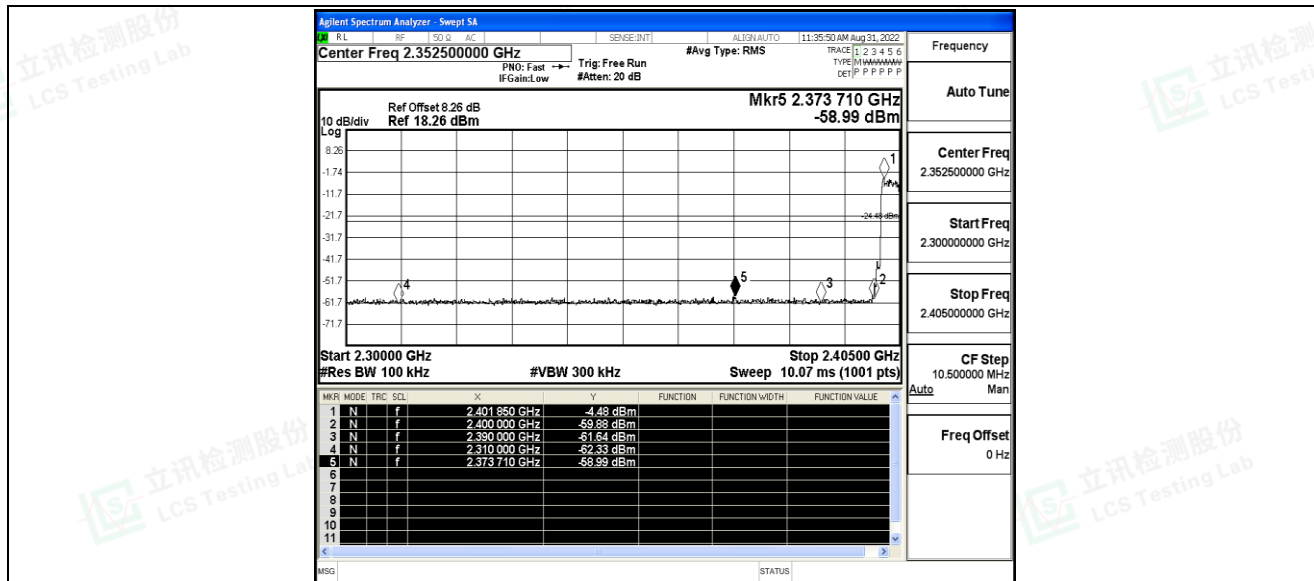


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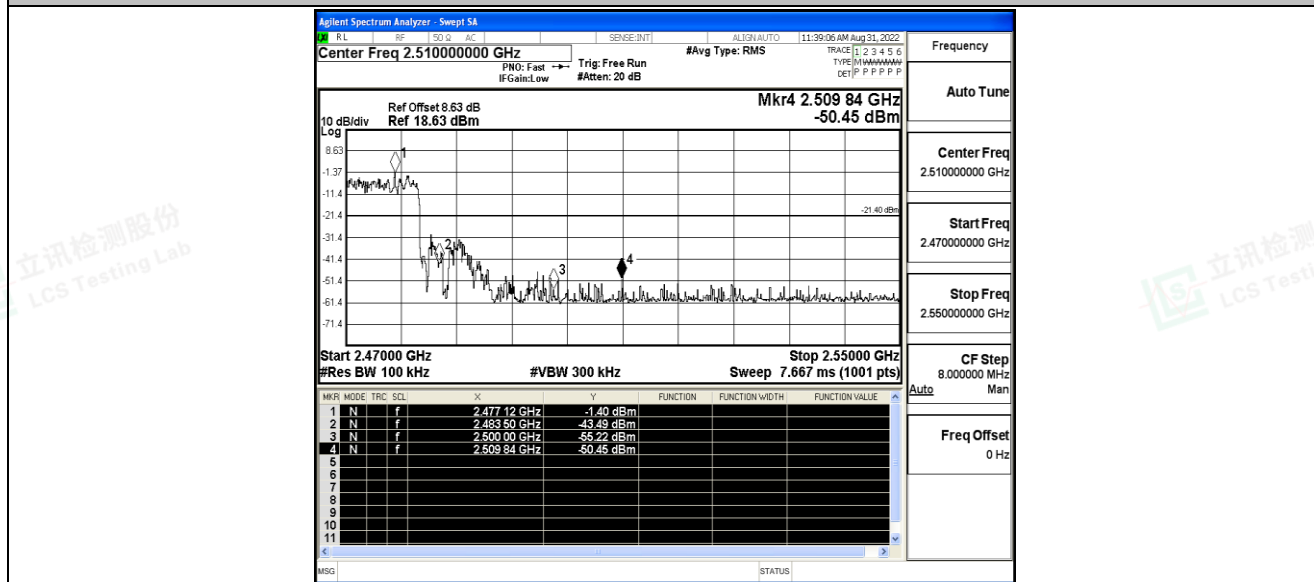
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

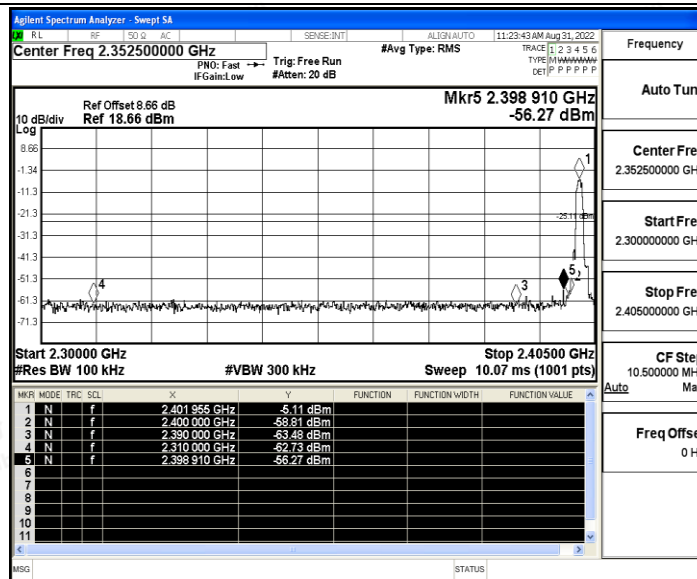


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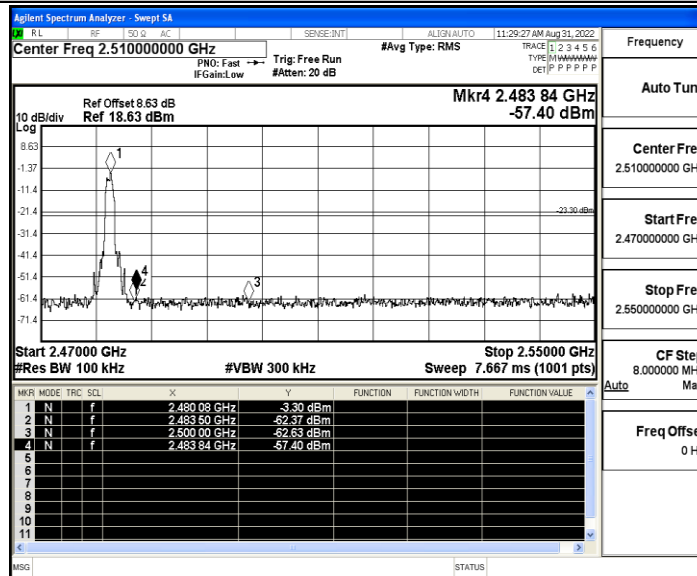
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

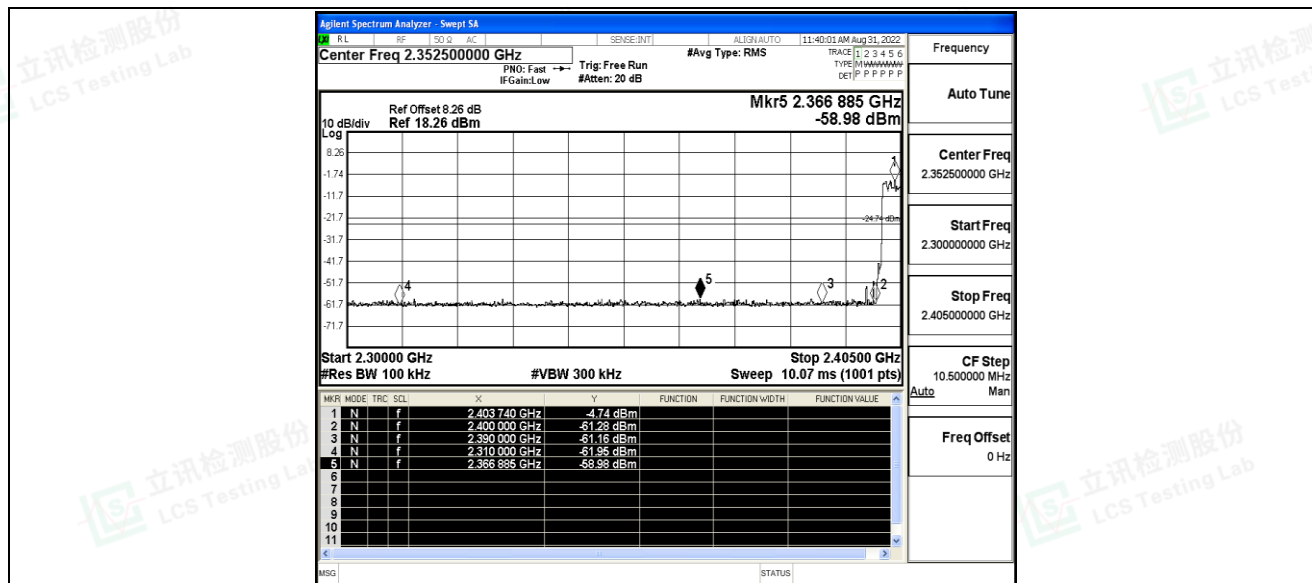


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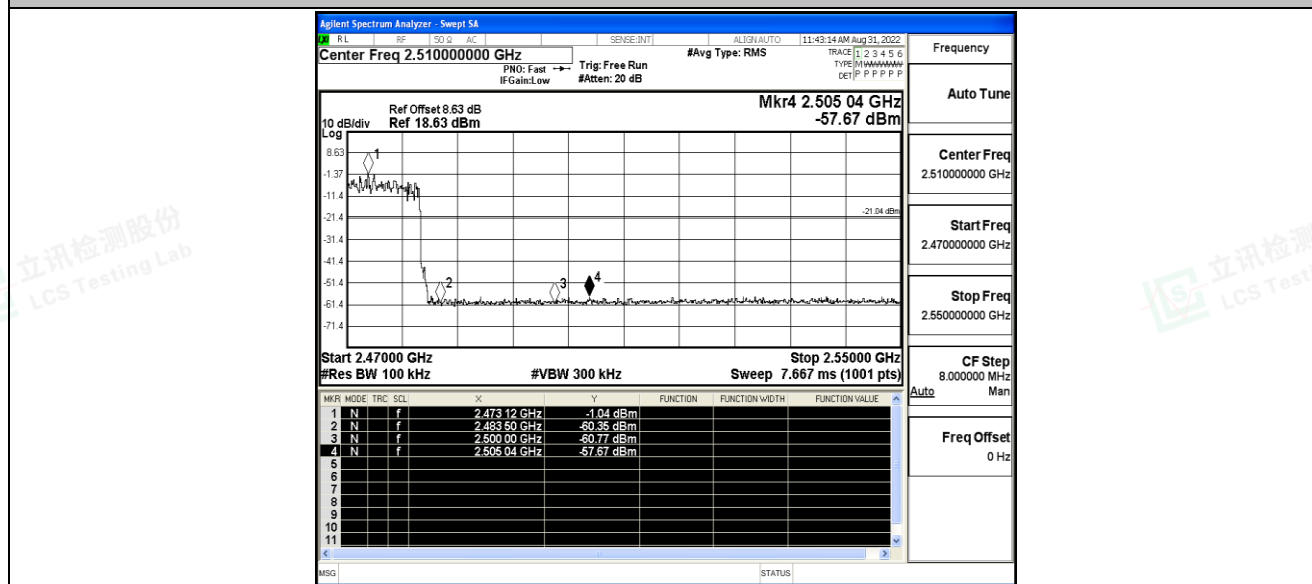
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3DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.29	2.29	---	PASS
			30~1000	2.29	-60.41	≤ -17.71	PASS
			1000~26500	2.29	-45.65	≤ -17.71	PASS
		2441	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-60.35	≤ -20.78	PASS
			1000~26500	-0.78	-46.52	≤ -20.78	PASS
		2480	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-44.71	≤ -20.62	PASS
			1000~26500	-0.62	-46.1	≤ -20.62	PASS
2DH5	Ant1	2402	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-55.94	≤ -25.24	PASS
			1000~26500	-5.24	-46.55	≤ -25.24	PASS
		2441	Reference	-4.60	-4.60	---	PASS
			30~1000	-4.60	-60.69	≤ -24.6	PASS
			1000~26500	-4.60	-46.39	≤ -24.6	PASS
		2480	Reference	-4.65	-4.65	---	PASS
			30~1000	-4.65	-60.38	≤ -24.65	PASS
			1000~26500	-4.65	-45.8	≤ -24.65	PASS
3DH5	Ant1	2402	Reference	-5.75	-5.75	---	PASS
			30~1000	-5.75	-60.09	≤ -25.75	PASS
			1000~26500	-5.75	-45.23	≤ -25.75	PASS
		2441	Reference	-4.93	-4.93	---	PASS
			30~1000	-4.93	-60.6	≤ -24.93	PASS
			1000~26500	-4.93	-43.61	≤ -24.93	PASS
		2480	Reference	-3.49	-3.49	---	PASS
			30~1000	-3.49	-60.28	≤ -23.49	PASS
			1000~26500	-3.49	-46.43	≤ -23.49	PASS



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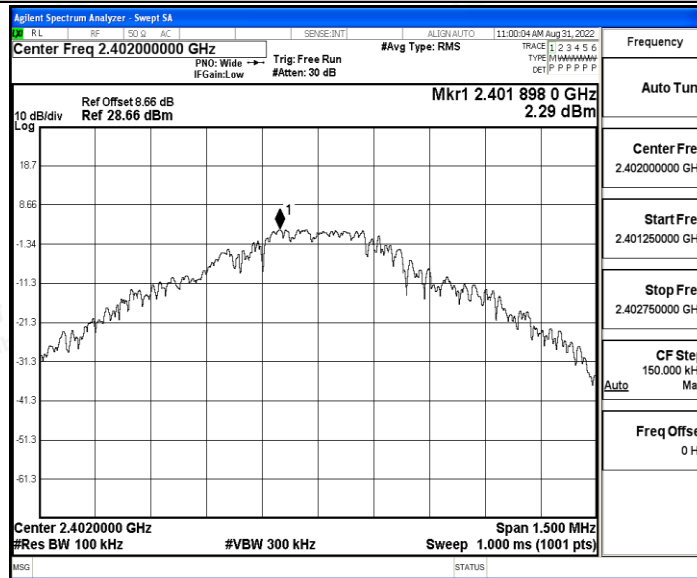
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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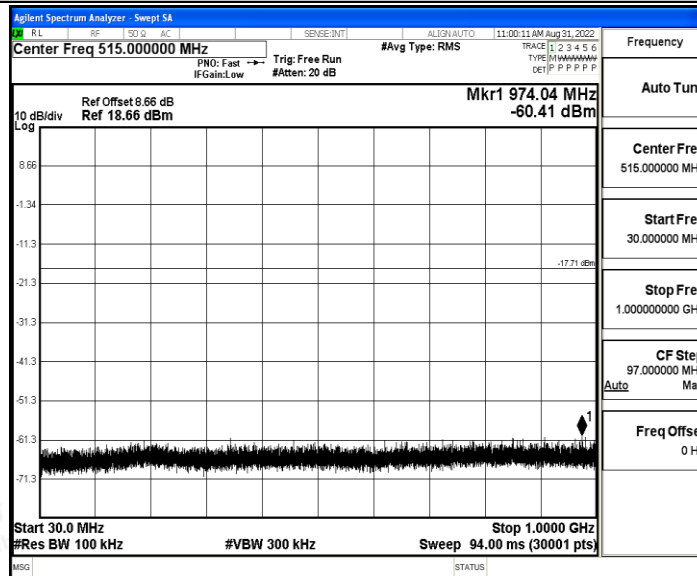


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

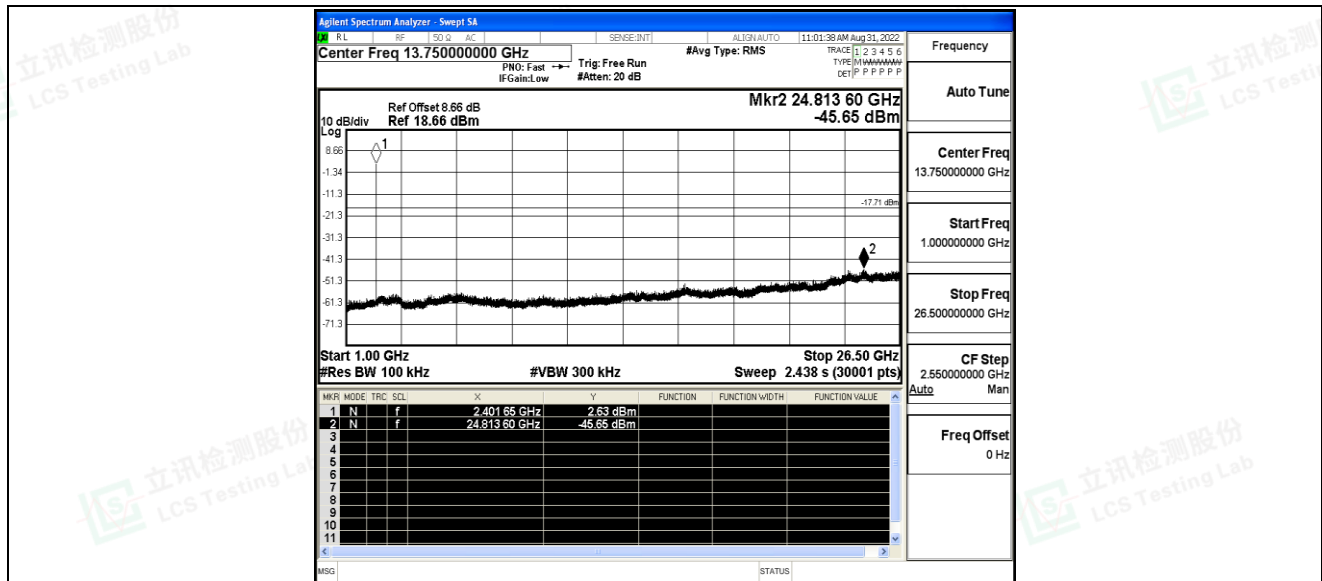


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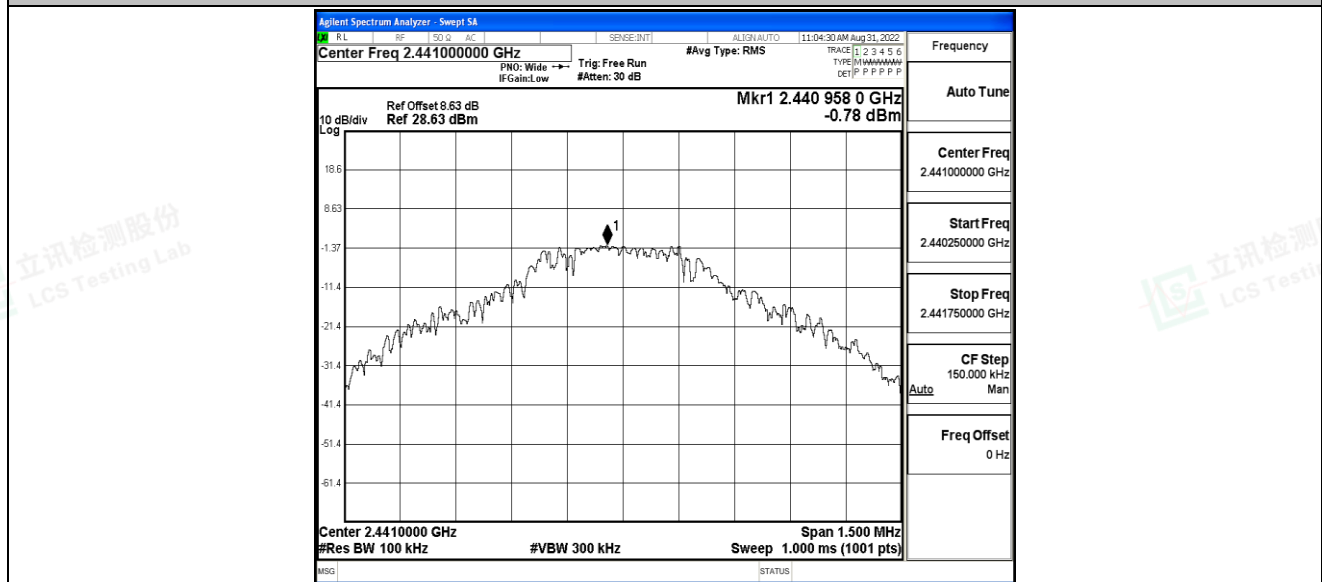
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DH5_Ant1_2441_0-Reference



DH5_Ant1_2441_30-1000

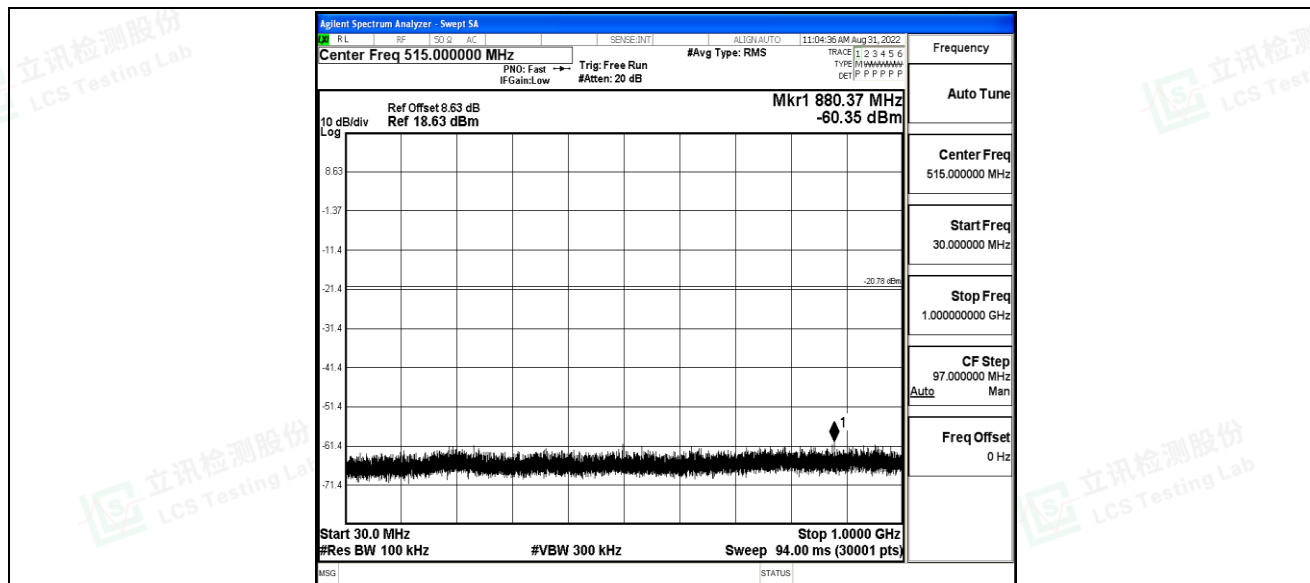


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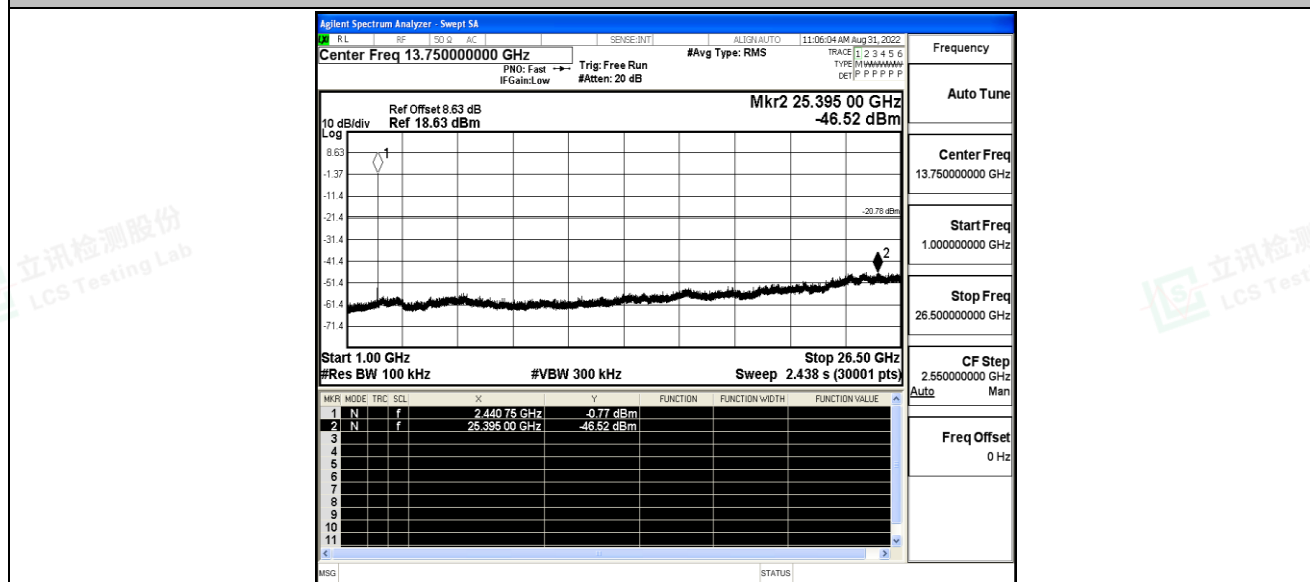
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

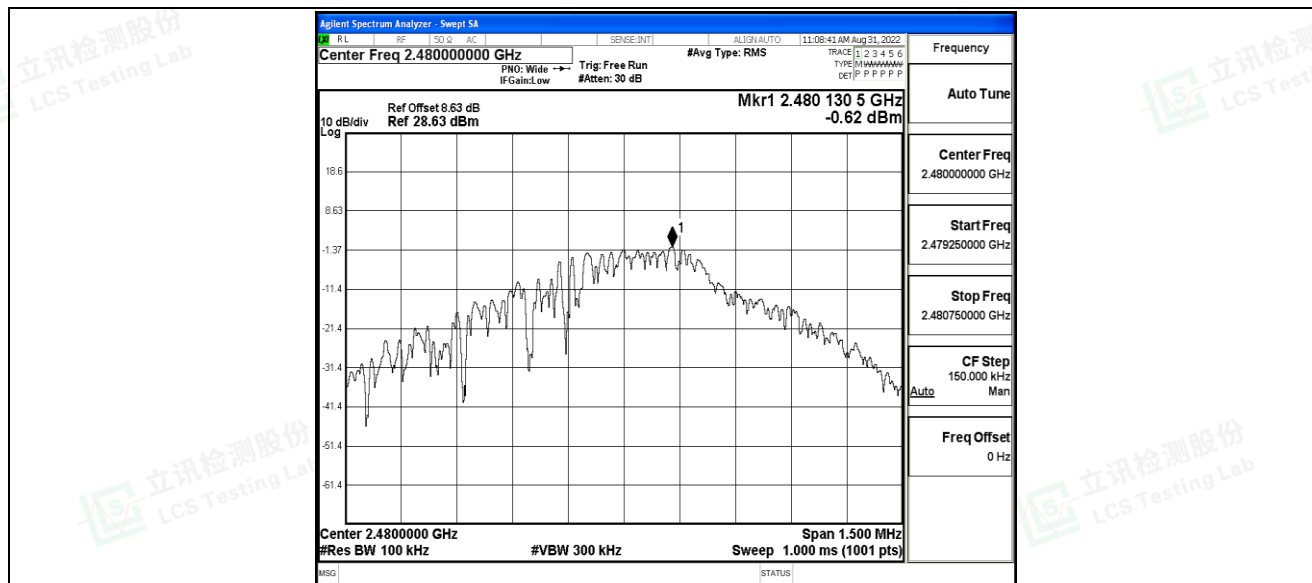


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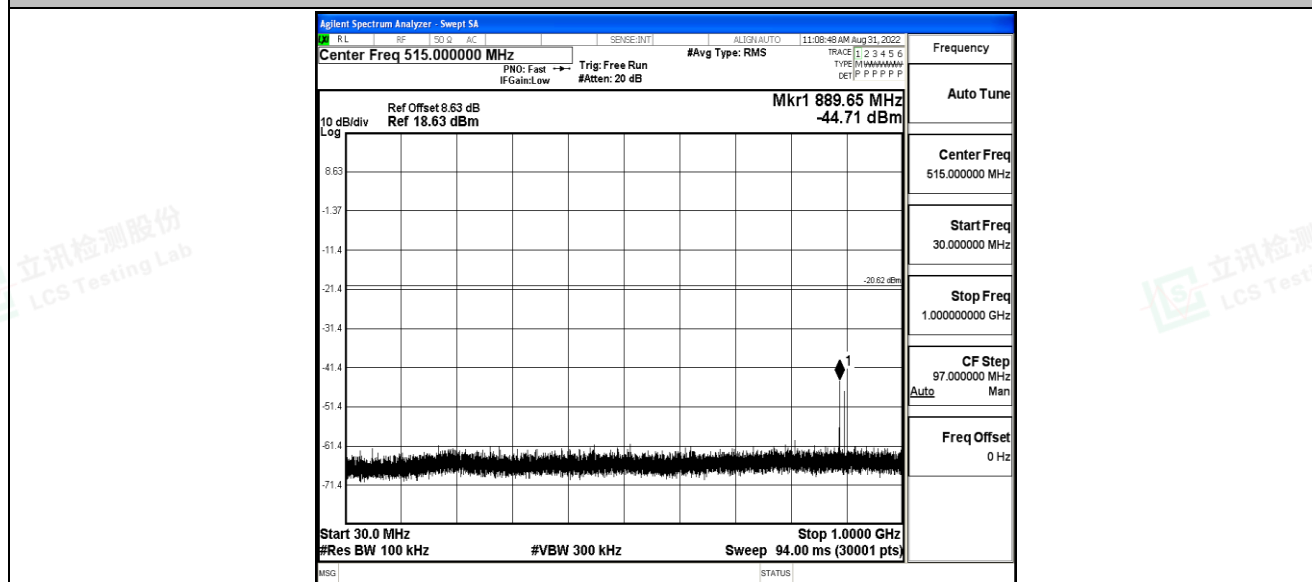
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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

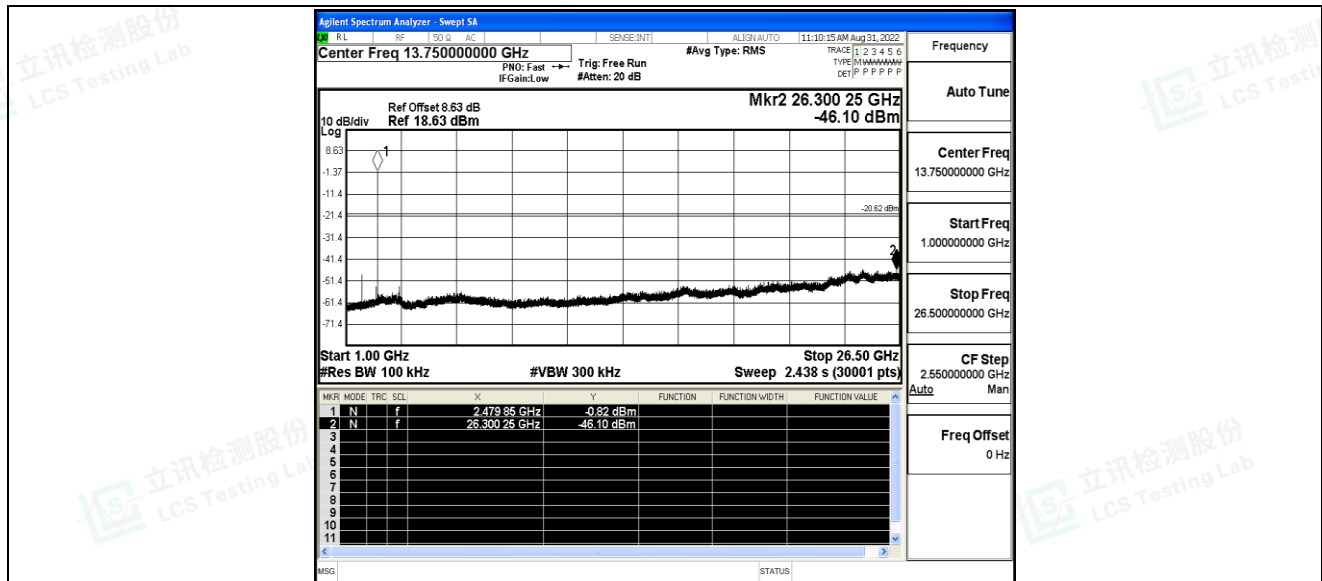


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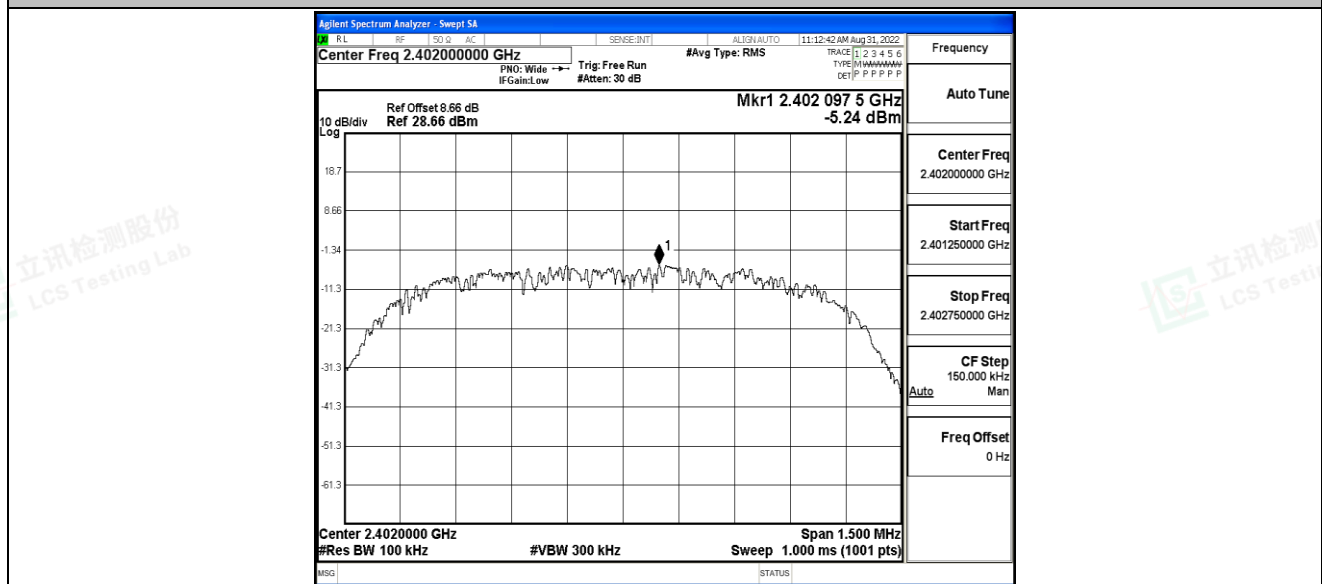
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

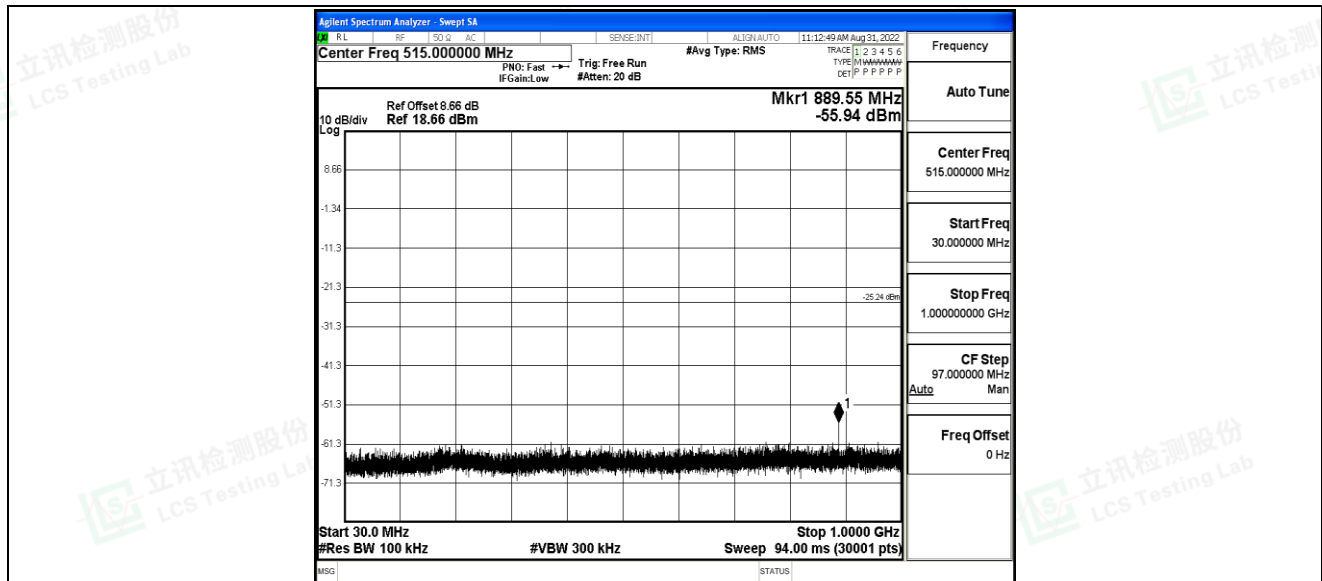


Shenzhen LCS Compliance Testing Laboratory Ltd.

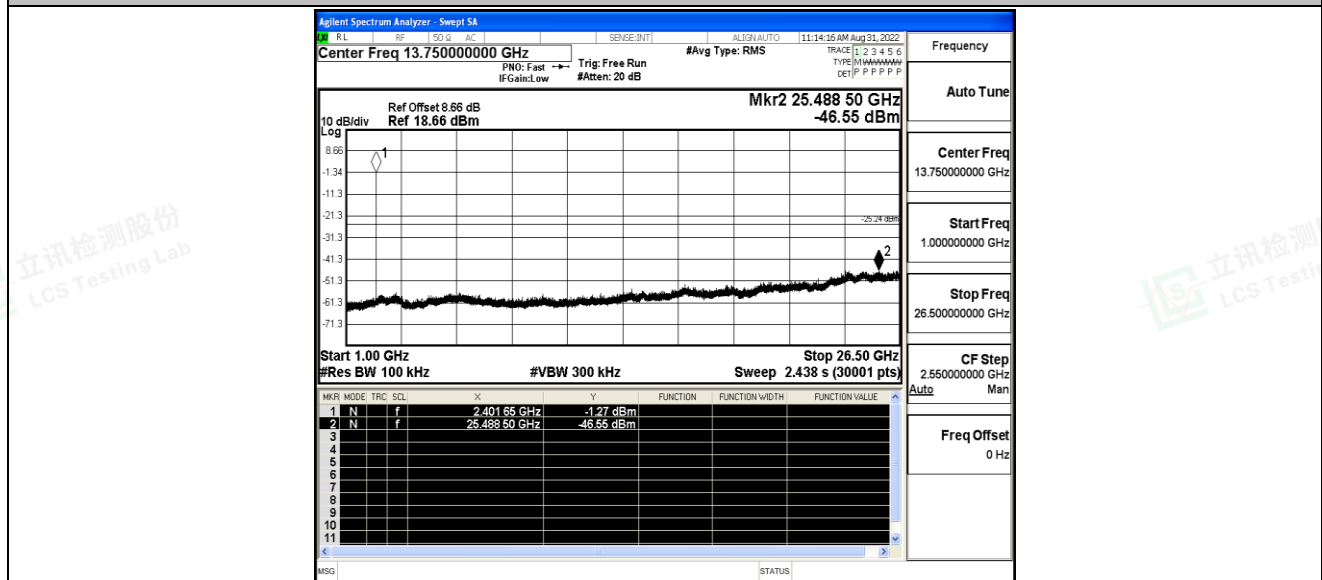
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

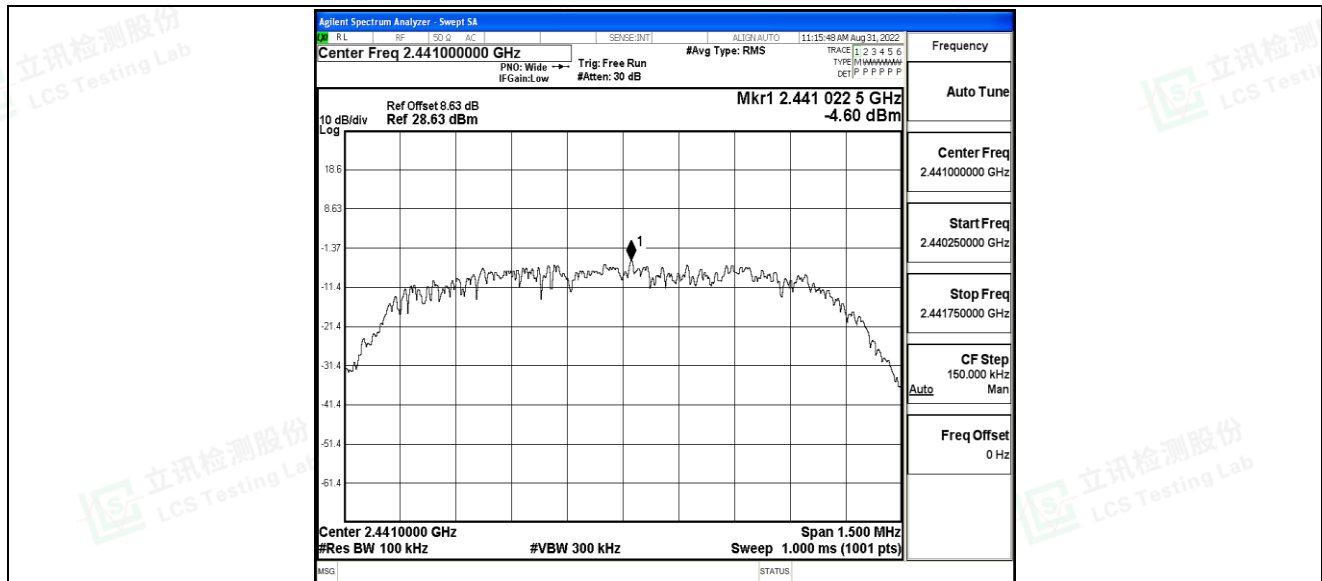


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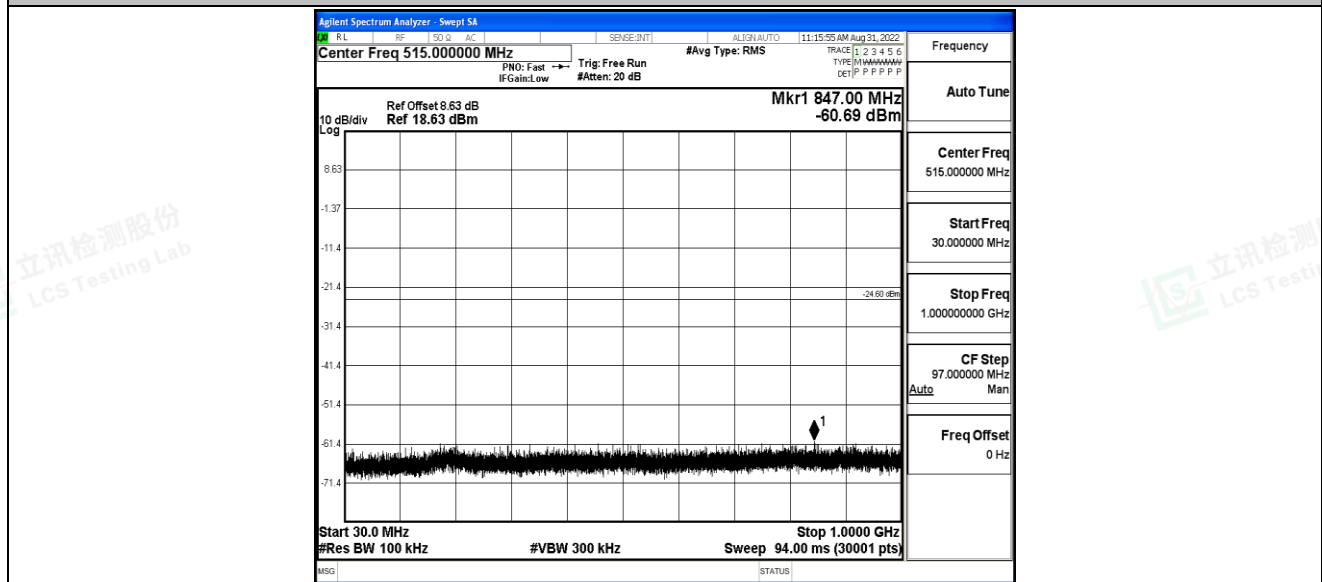
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

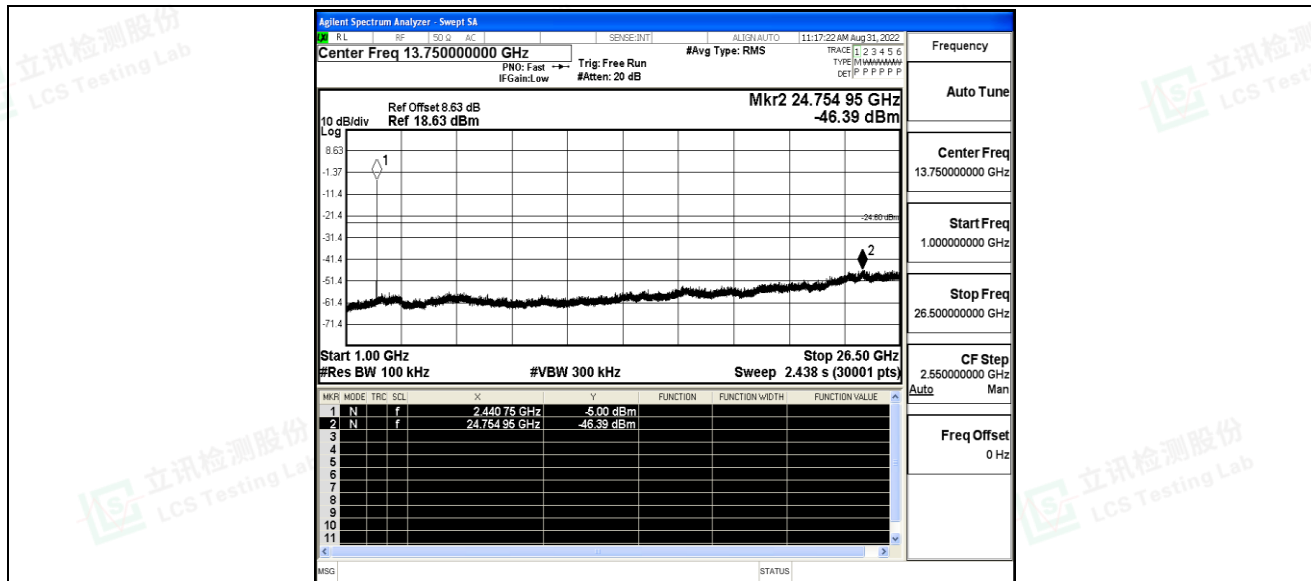


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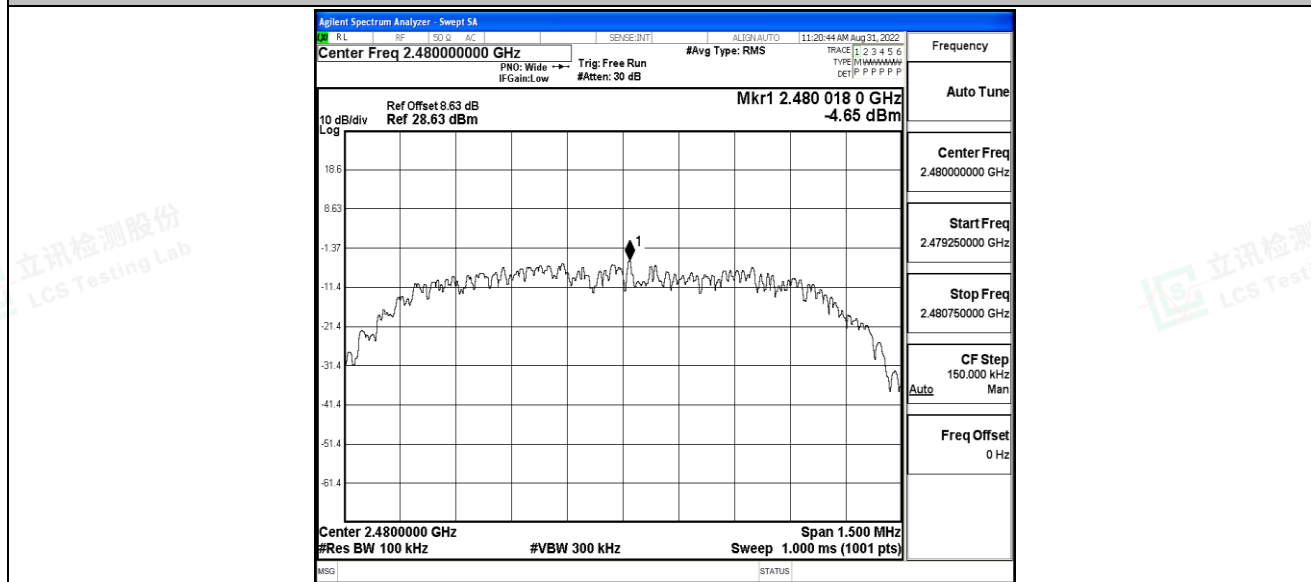
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

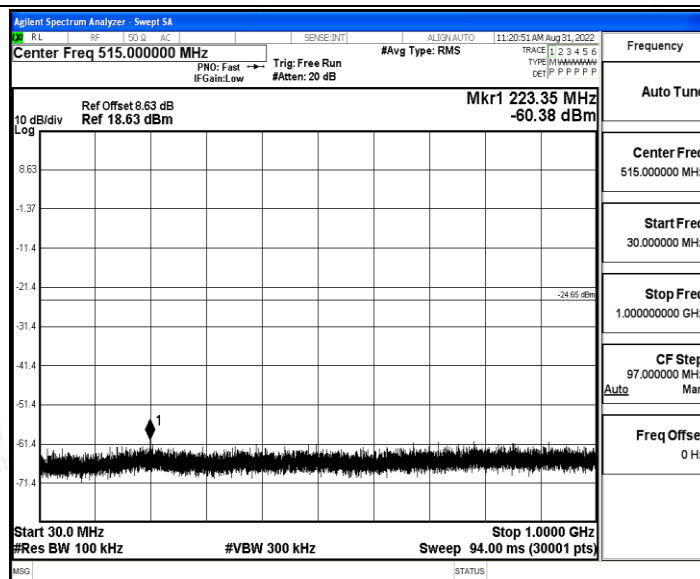


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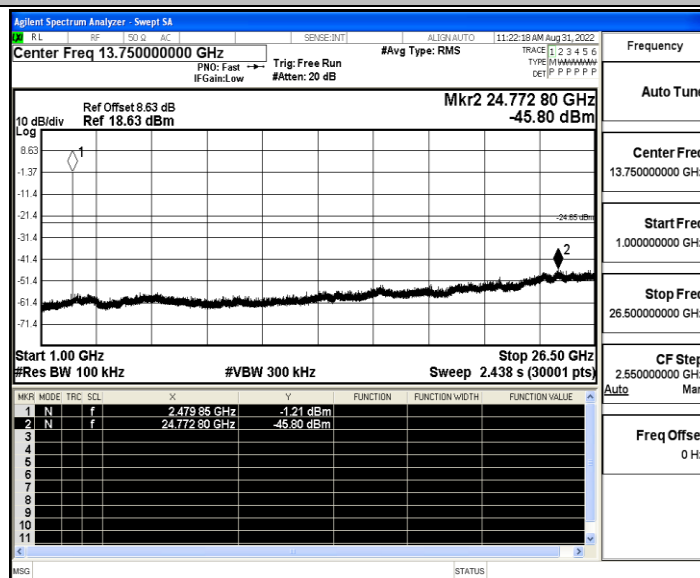
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

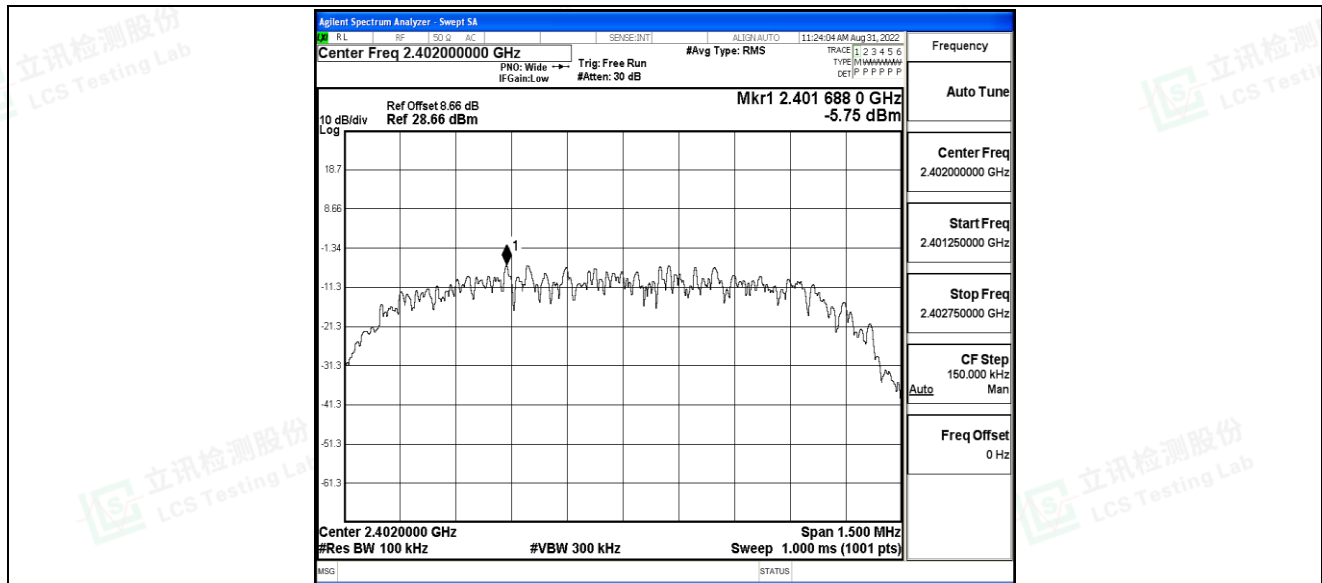


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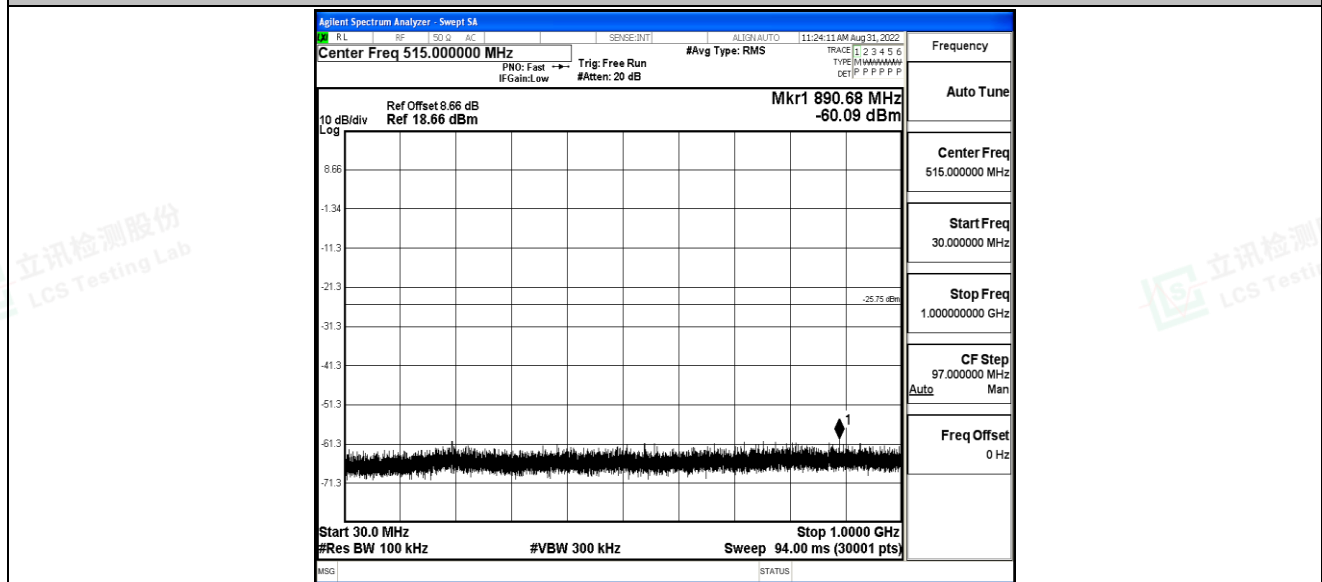
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3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

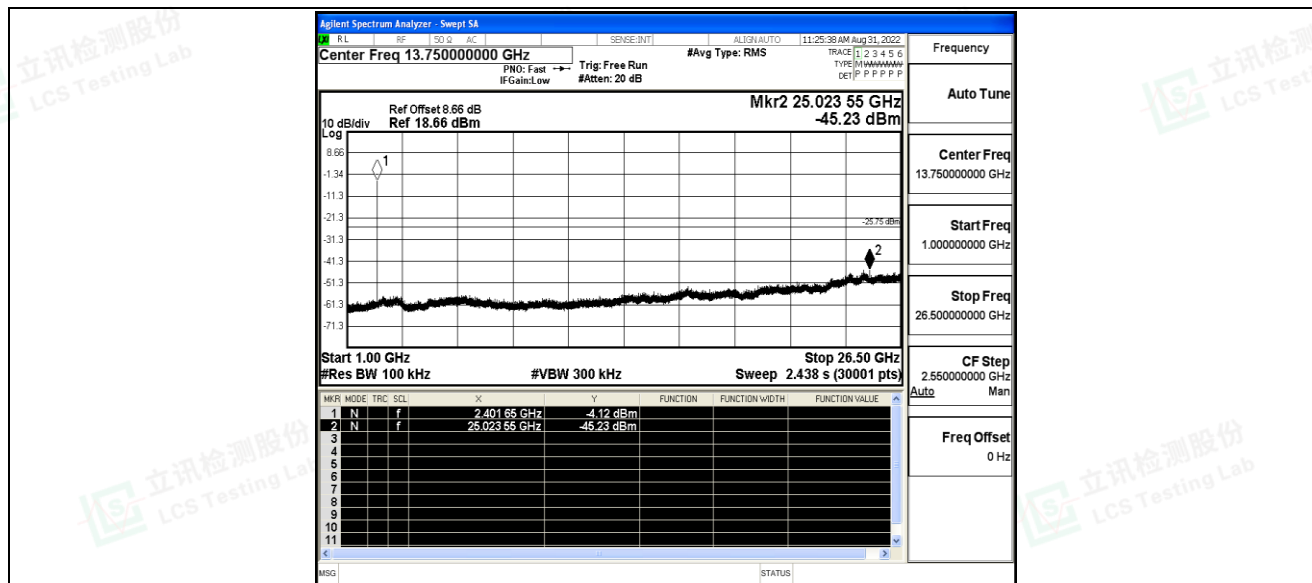


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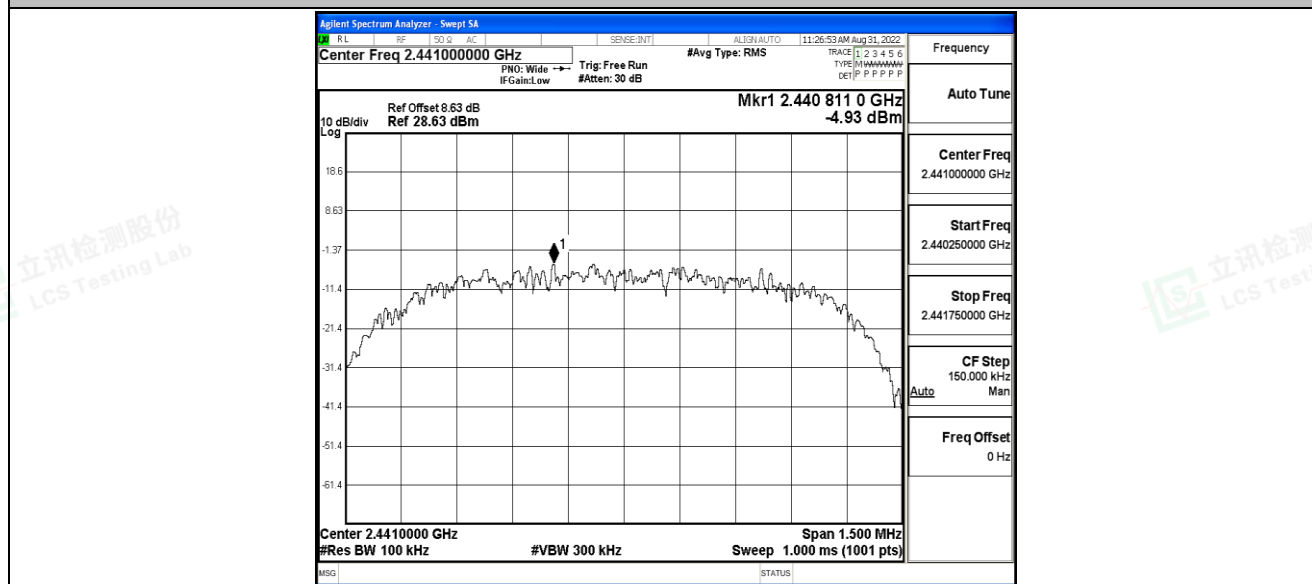
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

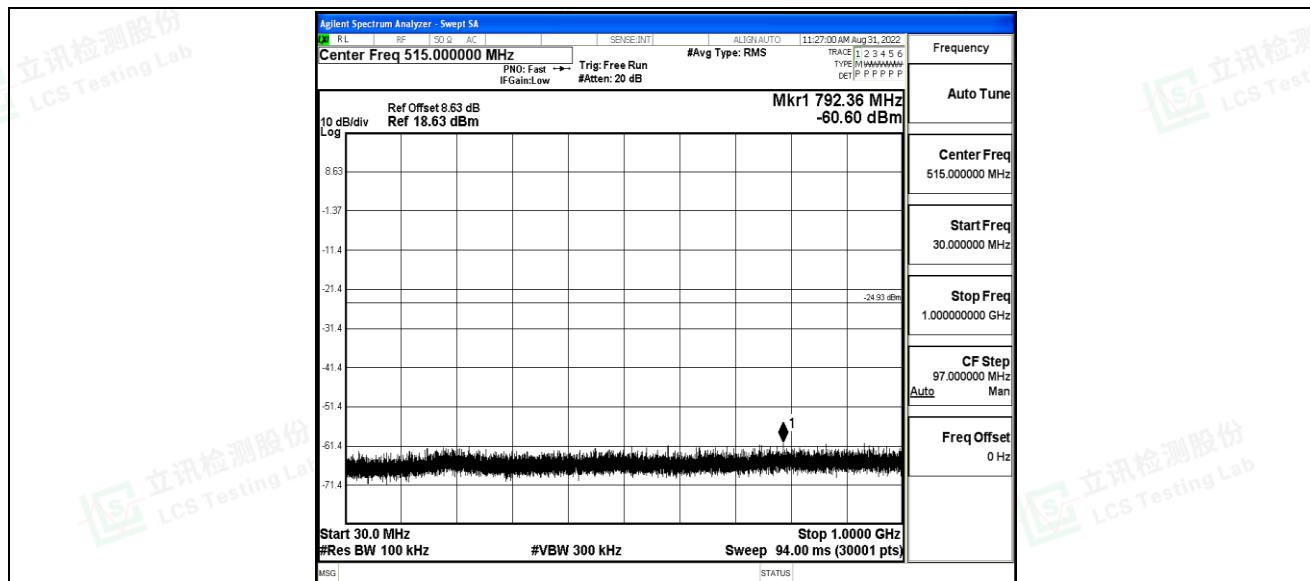


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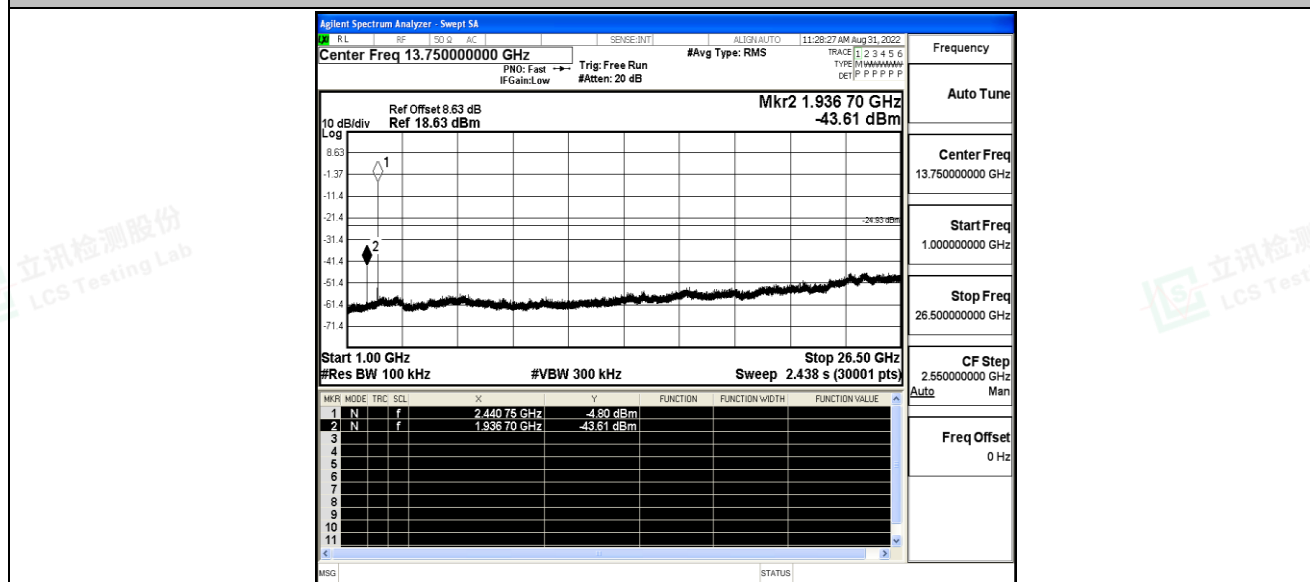
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

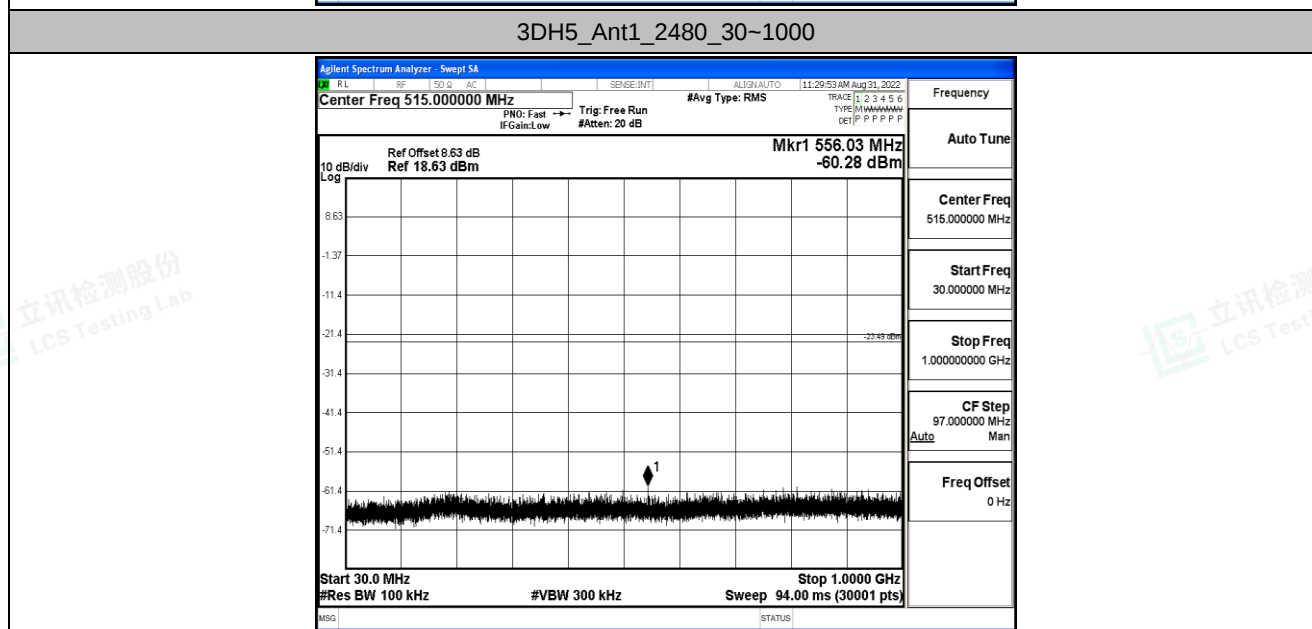
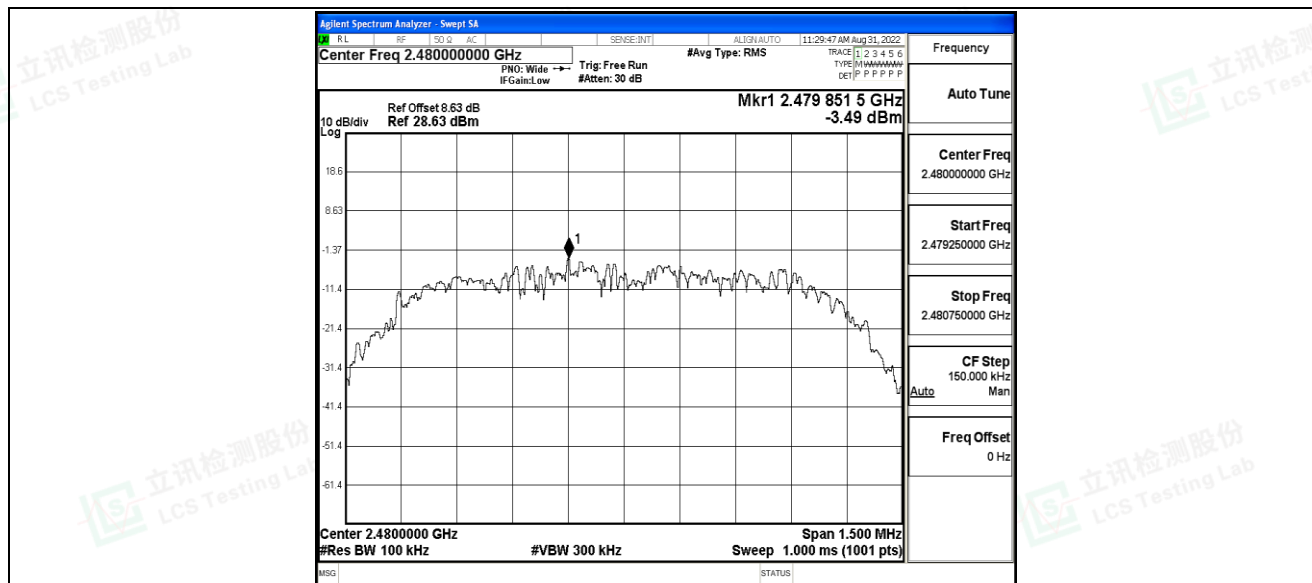


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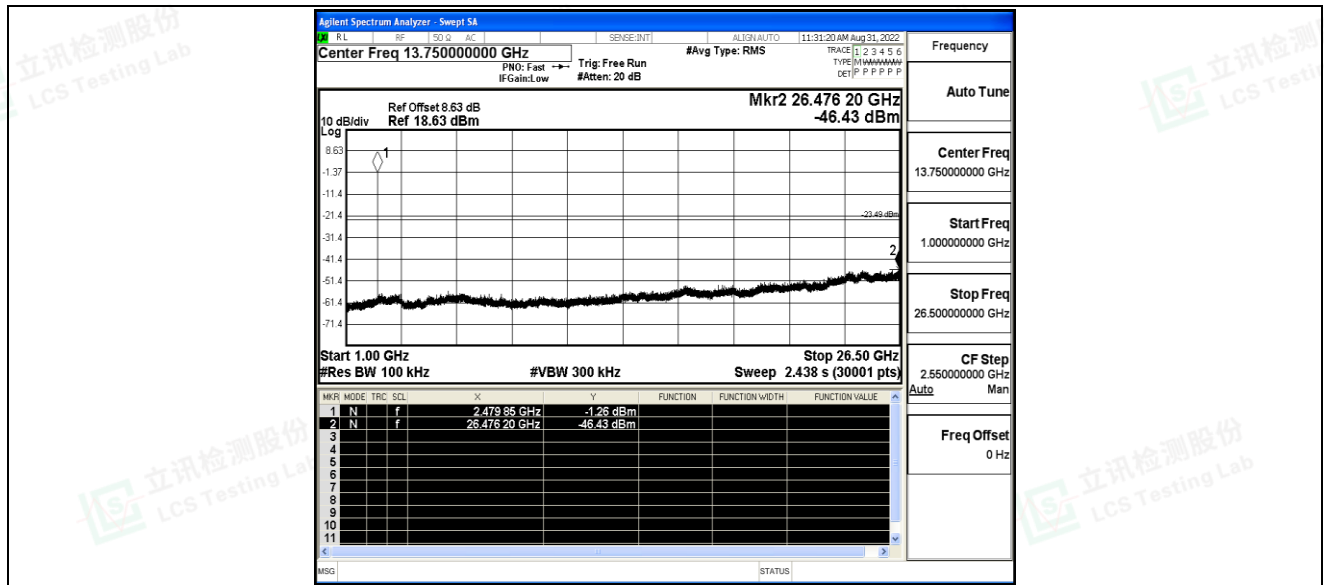


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-58.1	≤-41.20	37.10	≤54	PASS
				AV	2389.880	-57.5	≤-41.20	37.70	≤54	PASS
				AV	2390.000	-57.51	≤-41.20	37.69	≤54	PASS
				Peak	2310.000	-52.12	≤-21.20	43.08	≤74	PASS
				Peak	2377.910	-47.36	≤-21.20	47.84	≤74	PASS
				Peak	2390.000	-52.29	≤-21.20	42.91	≤74	PASS
		High	2480	AV	2483.500	-55.08	≤-41.20	40.12	≤54	PASS
				AV	2483.520	-55.08	≤-41.20	40.12	≤54	PASS
				AV	2500.000	-57.17	≤-41.20	38.03	≤54	PASS
				Peak	2483.500	-51.98	≤-21.20	43.22	≤74	PASS
				Peak	2494.240	-48.87	≤-21.20	46.33	≤74	PASS
				Peak	2500.000	-49.35	≤-21.20	45.85	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-49.46	≤-21.20	45.74	≤74	PASS
				Peak	2365.520	-46.92	≤-21.20	48.28	≤74	PASS
				Peak	2390.000	-50.63	≤-21.20	44.57	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-48.21	≤-21.20	46.99	≤74	PASS
				Peak	2484.960	-43.22	≤-21.20	51.98	≤74	PASS
				Peak	2500.000	-47.43	≤-21.20	47.77	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.14	≤-41.20	37.06	≤54	PASS
				AV	2379.380	-57.5	≤-41.20	37.70	≤54	PASS
				AV	2390.000	-57.81	≤-41.20	37.39	≤54	PASS
				Peak	2310.000	-53.48	≤-21.20	41.72	≤74	PASS
				Peak	2356.280	-48.57	≤-21.20	46.63	≤74	PASS
				Peak	2390.000	-52.49	≤-21.20	42.71	≤74	PASS
		High	2480	AV	2483.500	-55.21	≤-41.20	39.99	≤54	PASS
				AV	2483.520	-55.21	≤-41.20	39.99	≤54	PASS
				AV	2500.000	-57.19	≤-41.20	38.01	≤54	PASS
				Peak	2483.500	-50.36	≤-21.20	44.84	≤74	PASS
				Peak	2494.400	-48.36	≤-21.20	46.84	≤74	PASS
				Peak	2500.000	-53.09	≤-21.20	42.11	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-50.14	≤-21.20	45.06	≤74	PASS
				Peak	2367.305	-47.73	≤-21.20	47.47	≤74	PASS
				Peak	2390.000	-50.02	≤-21.20	45.18	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-49.14	≤-21.20	46.06	≤74	PASS
				Peak	2485.360	-40.9	≤-21.20	54.30	≤74	PASS



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				Peak	2500.000	-48.99	≤-21.20	46.21	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-58.17	≤-41.20	37.03	≤54	PASS
				AV	2389.985	-57.52	≤-41.20	37.68	≤54	PASS
				AV	2390.000	-57.52	≤-41.20	37.68	≤54	PASS
				Peak	2310.000	-55.16	≤-21.20	40.04	≤74	PASS
				Peak	2378.645	-48.47	≤-21.20	46.73	≤74	PASS
				Peak	2390.000	-51.07	≤-21.20	44.13	≤74	PASS
		High	2480	AV	2483.500	-55.22	≤-41.20	39.98	≤54	PASS
				AV	2483.520	-55.21	≤-41.20	39.99	≤54	PASS
				AV	2500.000	-57.15	≤-41.20	38.05	≤54	PASS
				Peak	2483.500	-49.79	≤-21.20	45.41	≤74	PASS
				Peak	2488.880	-45.99	≤-21.20	49.21	≤74	PASS
				Peak	2500.000	-53.24	≤-21.20	41.96	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-49.95	≤-21.20	45.25	≤74	PASS
				Peak	2379.800	-47.09	≤-21.20	48.11	≤74	PASS
				Peak	2390.000	-48.65	≤-21.20	46.55	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-48.12	≤-21.20	47.08	≤74	PASS
				Peak	2495.680	-46.72	≤-21.20	48.48	≤74	PASS
				Peak	2500.000	-48.49	≤-21.20	46.71	≤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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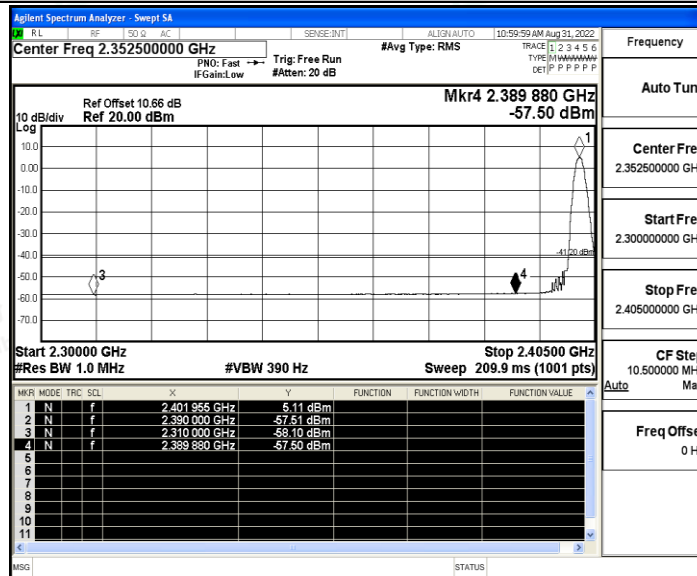
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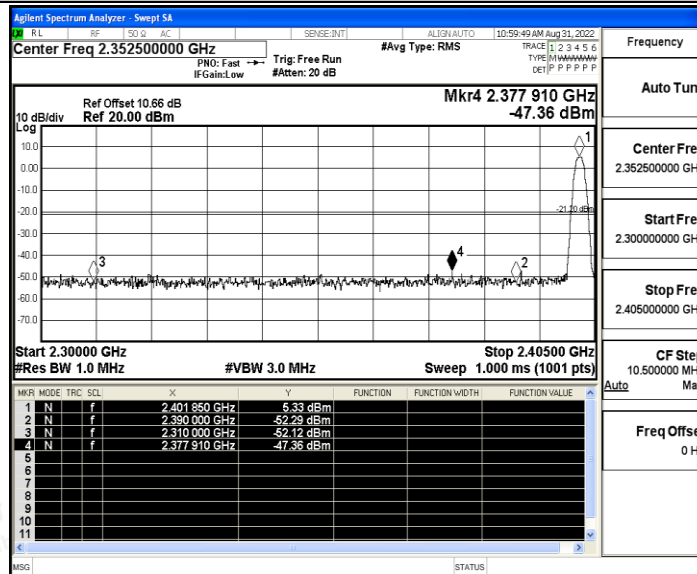


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

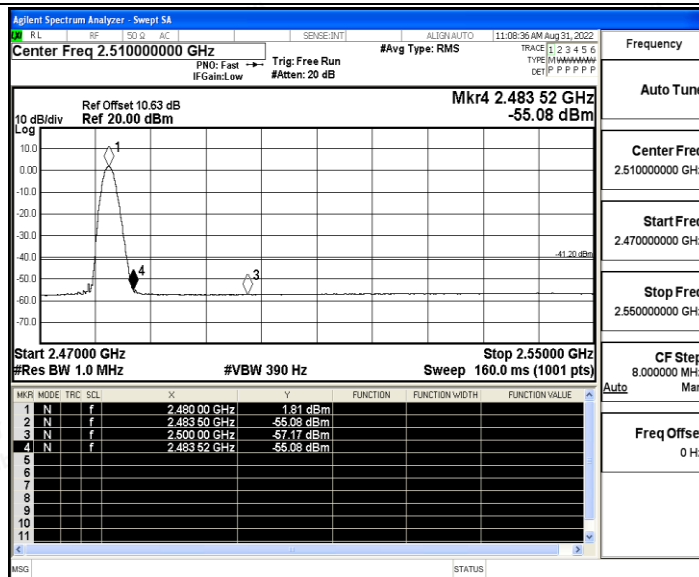


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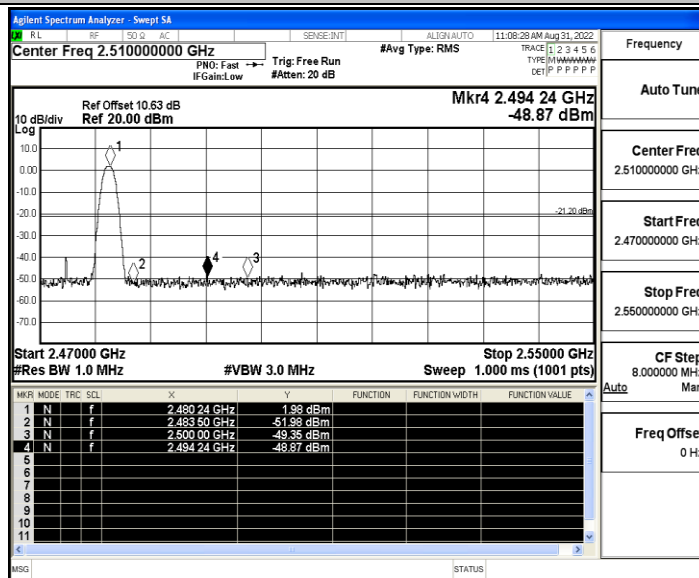
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

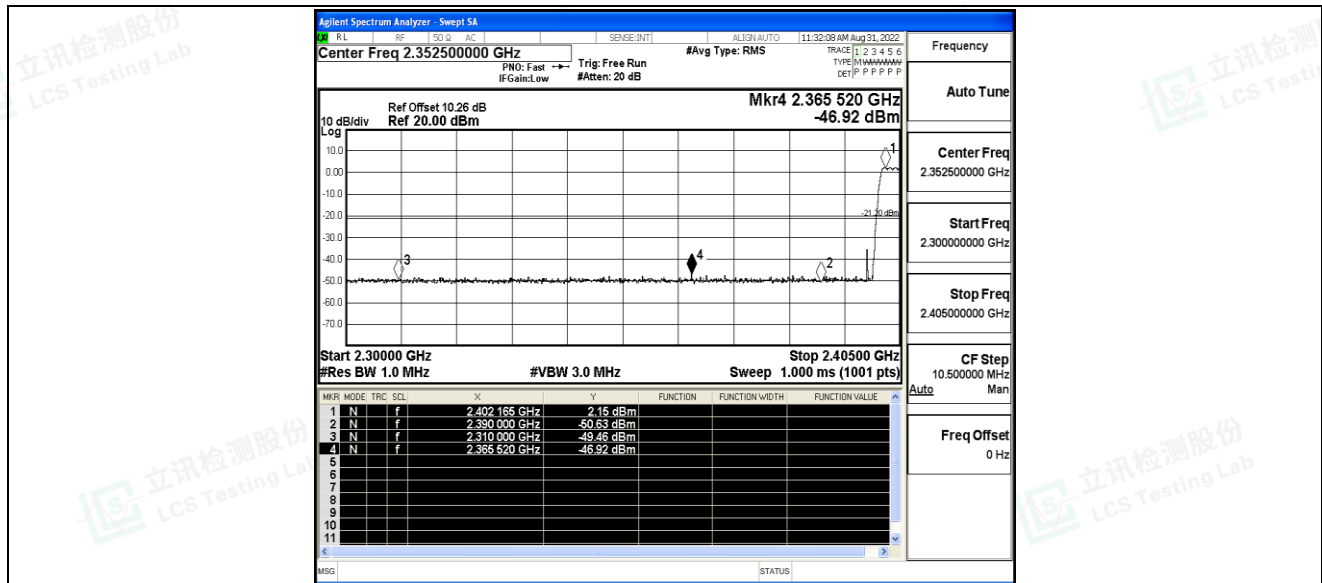


Shenzhen LCS Compliance Testing Laboratory Ltd.

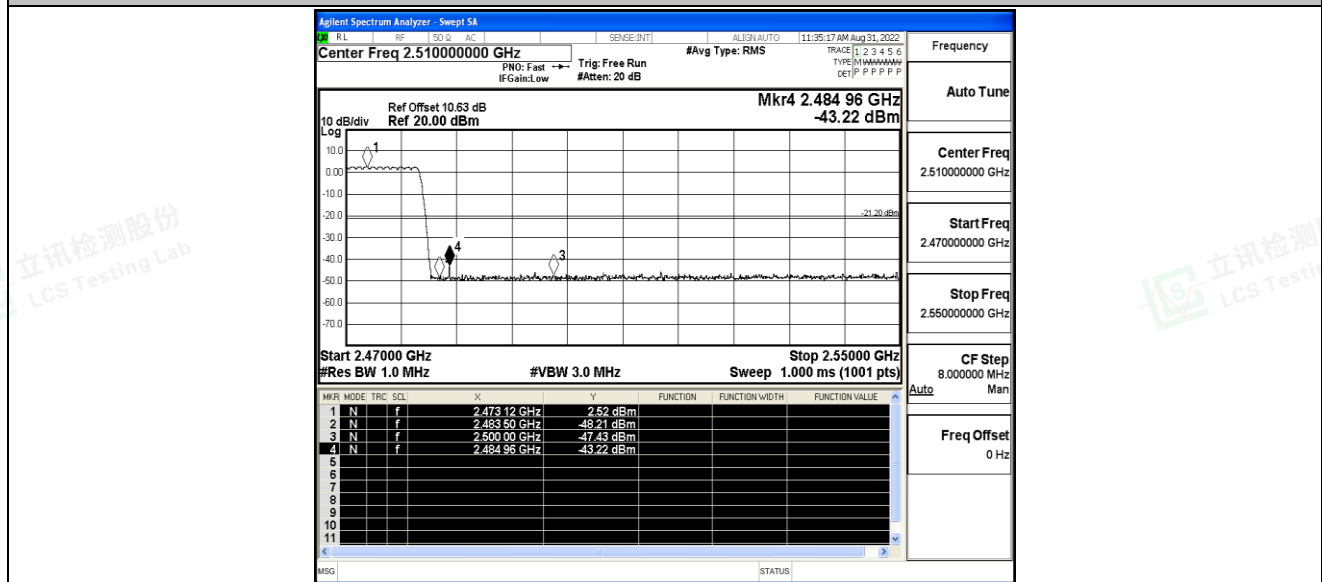
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

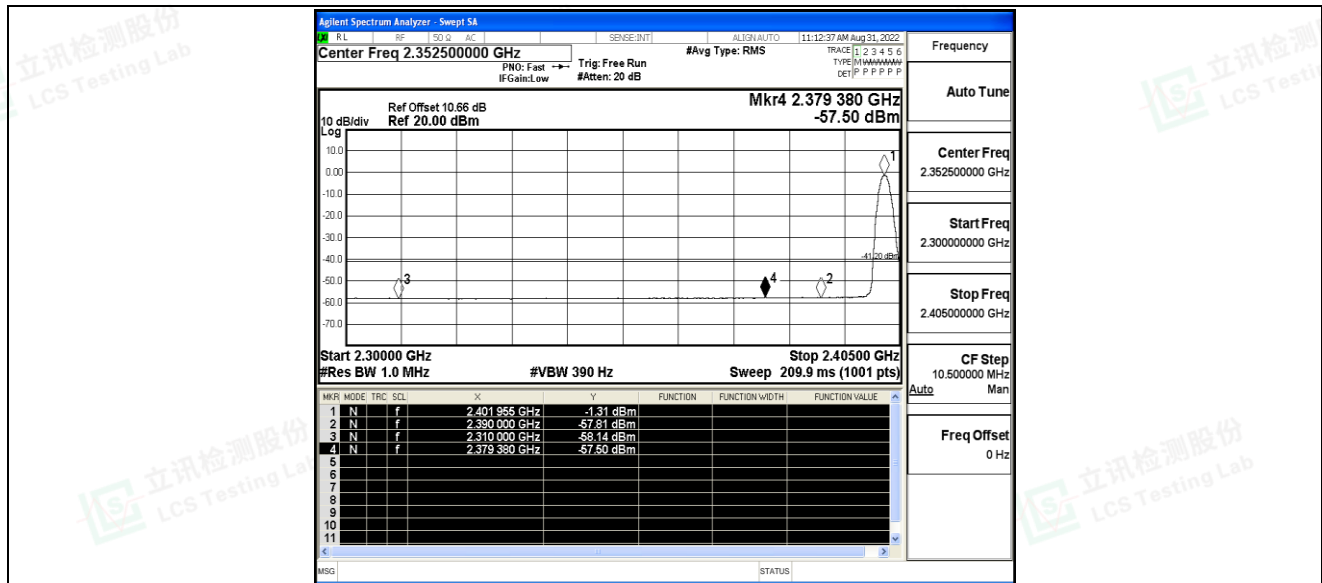


Shenzhen LCS Compliance Testing Laboratory Ltd.

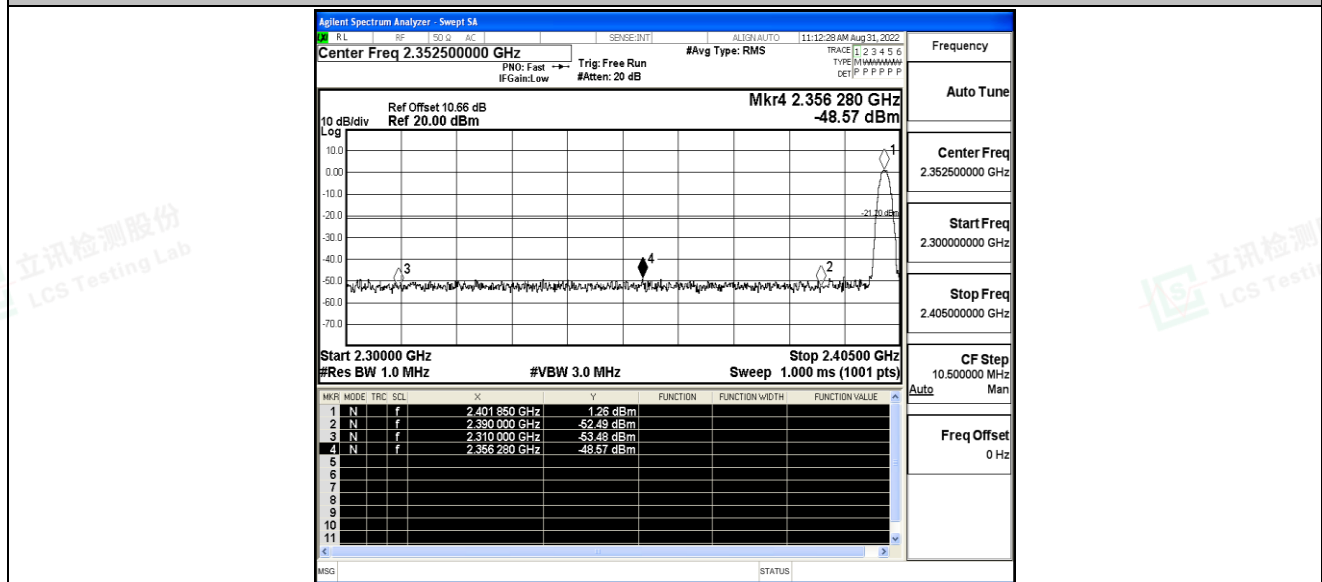
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

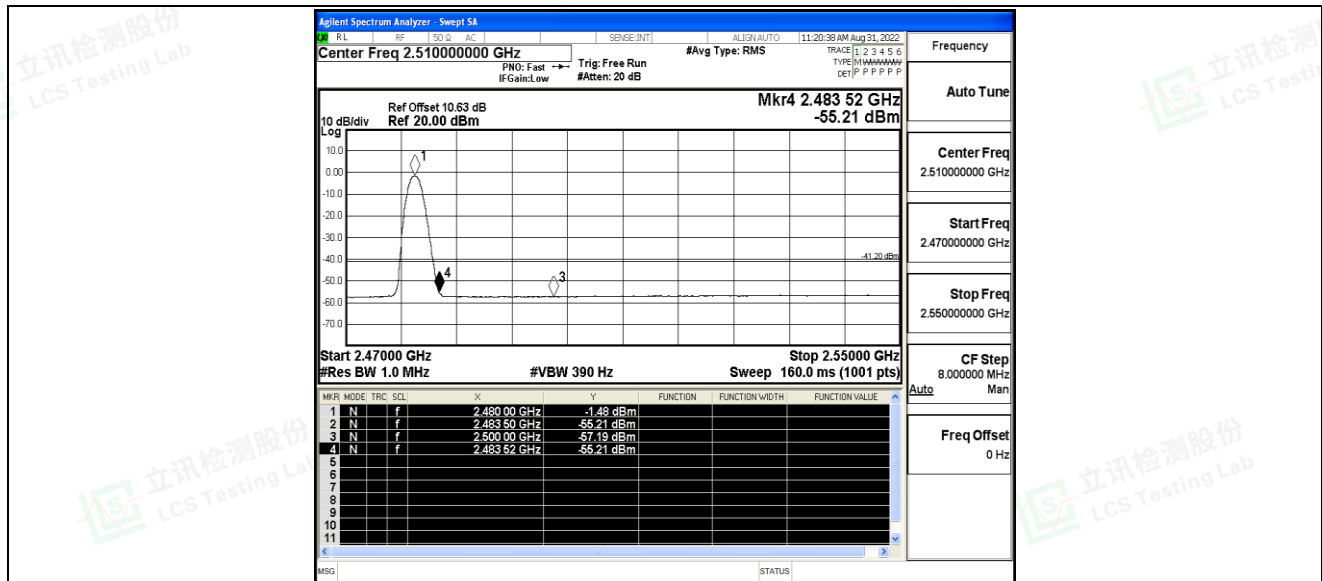


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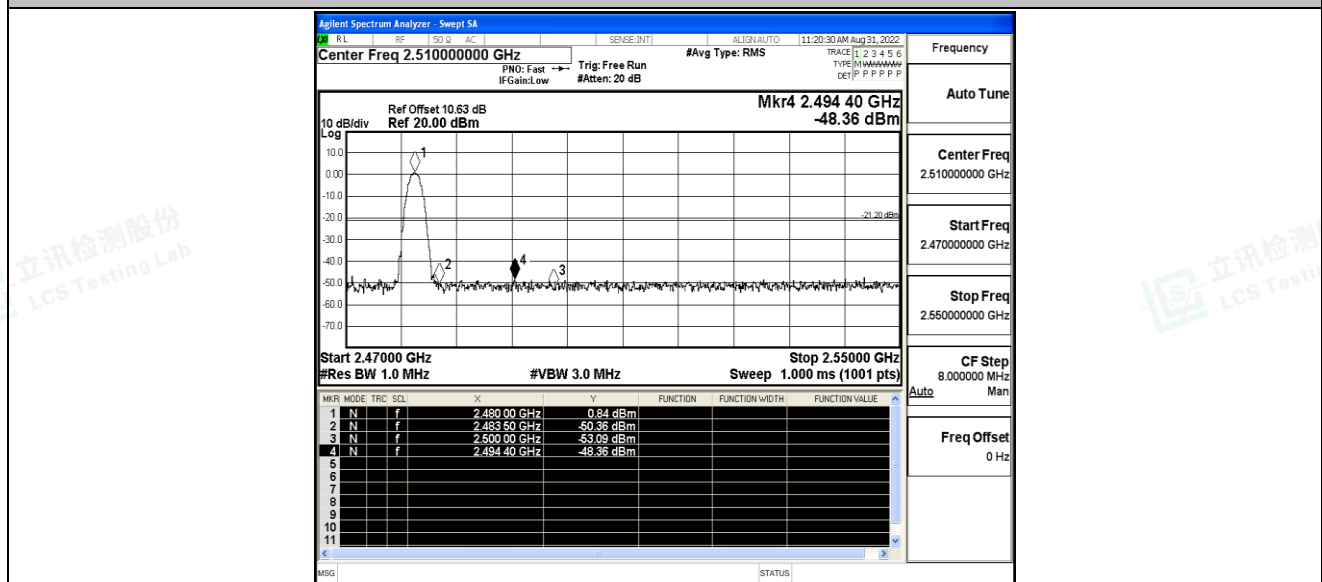
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

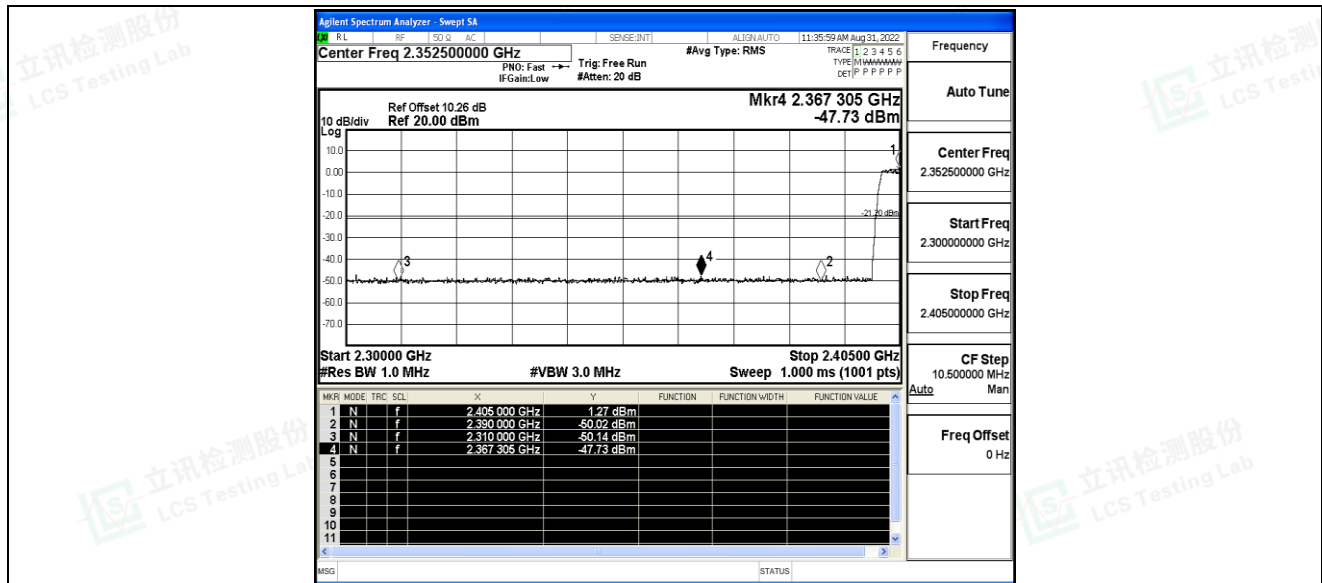


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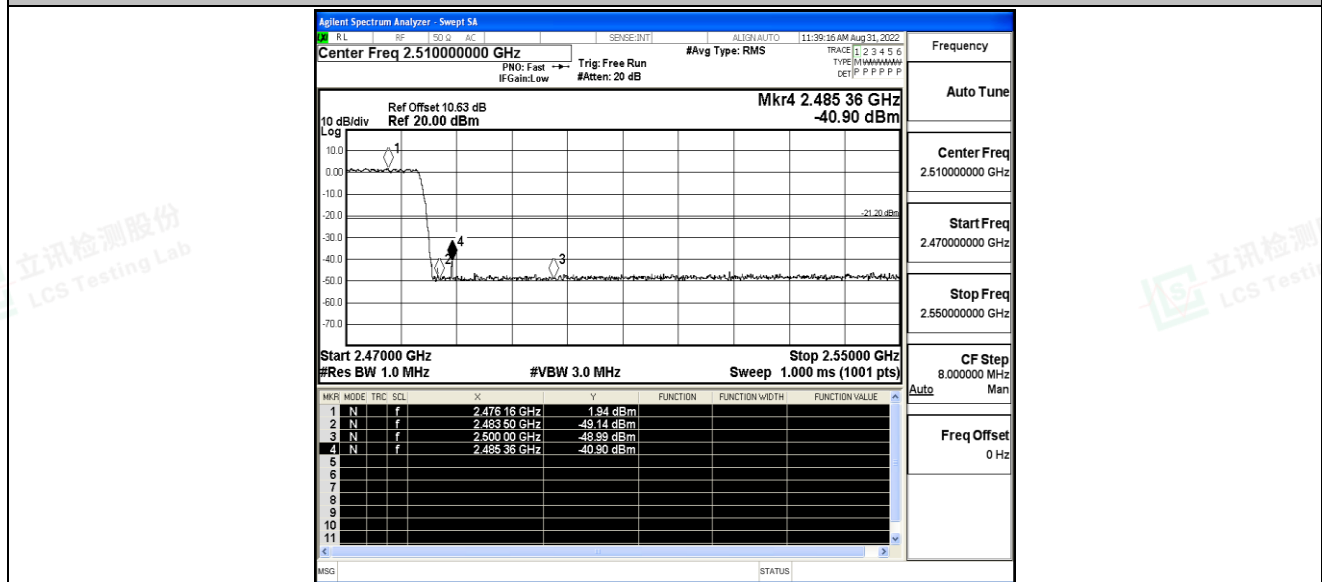
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

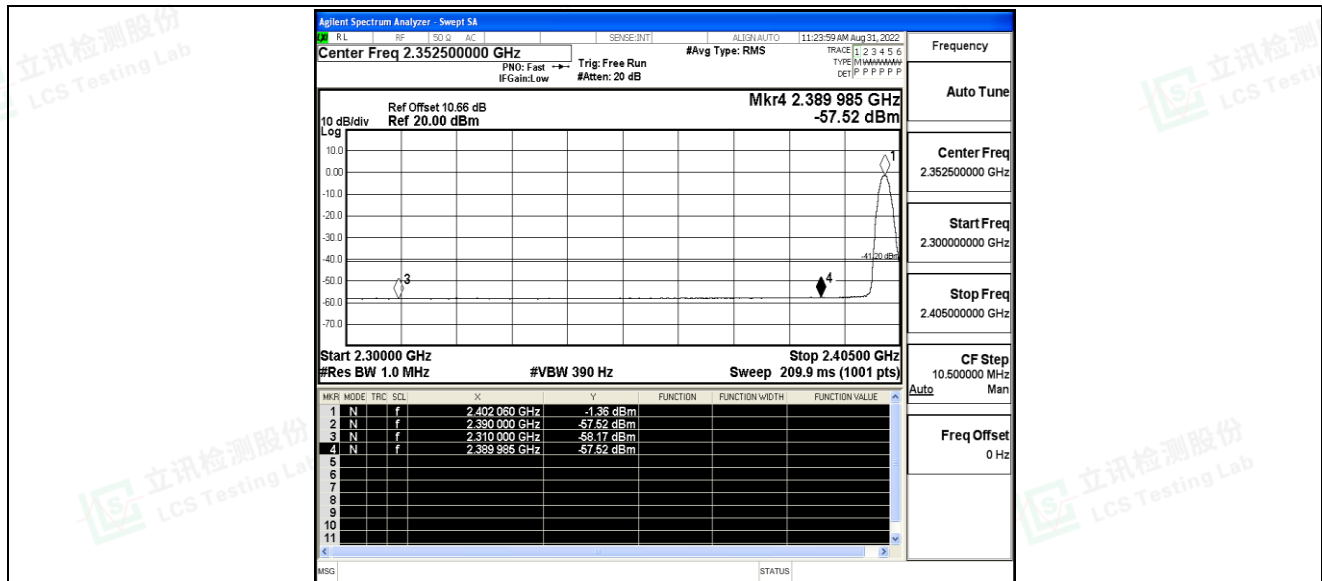


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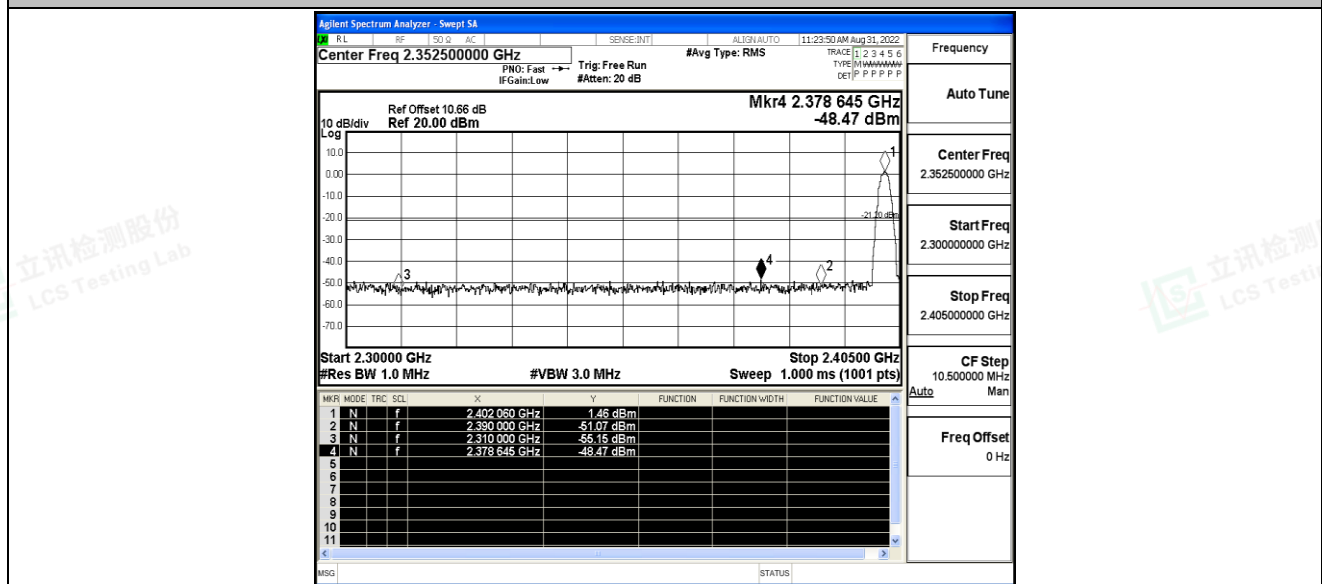
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

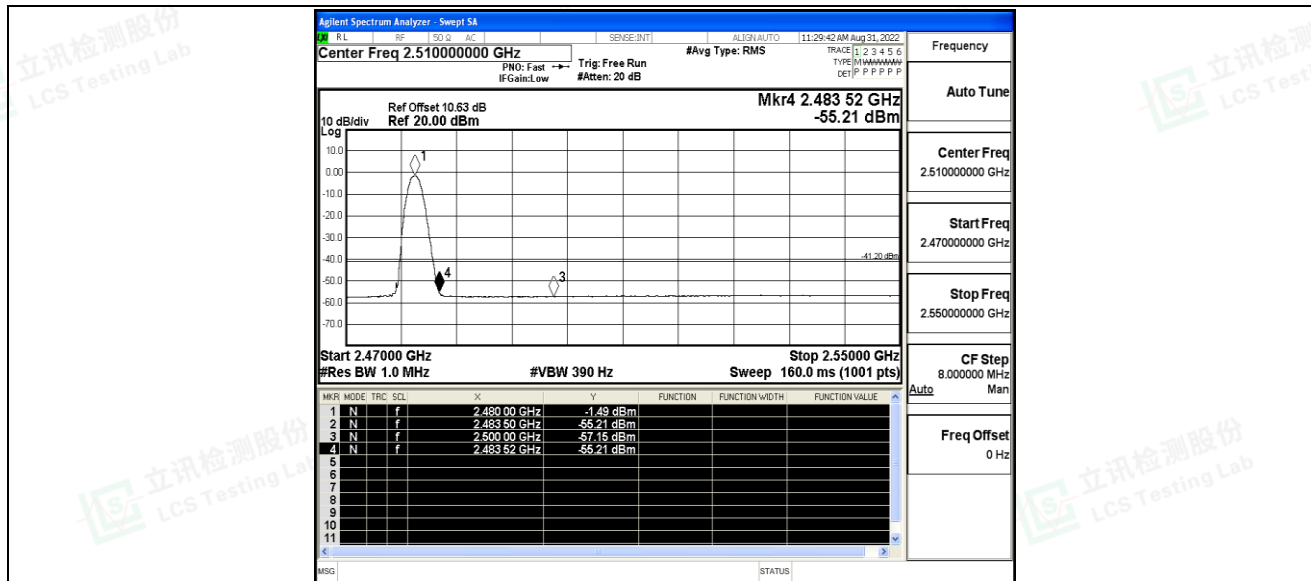


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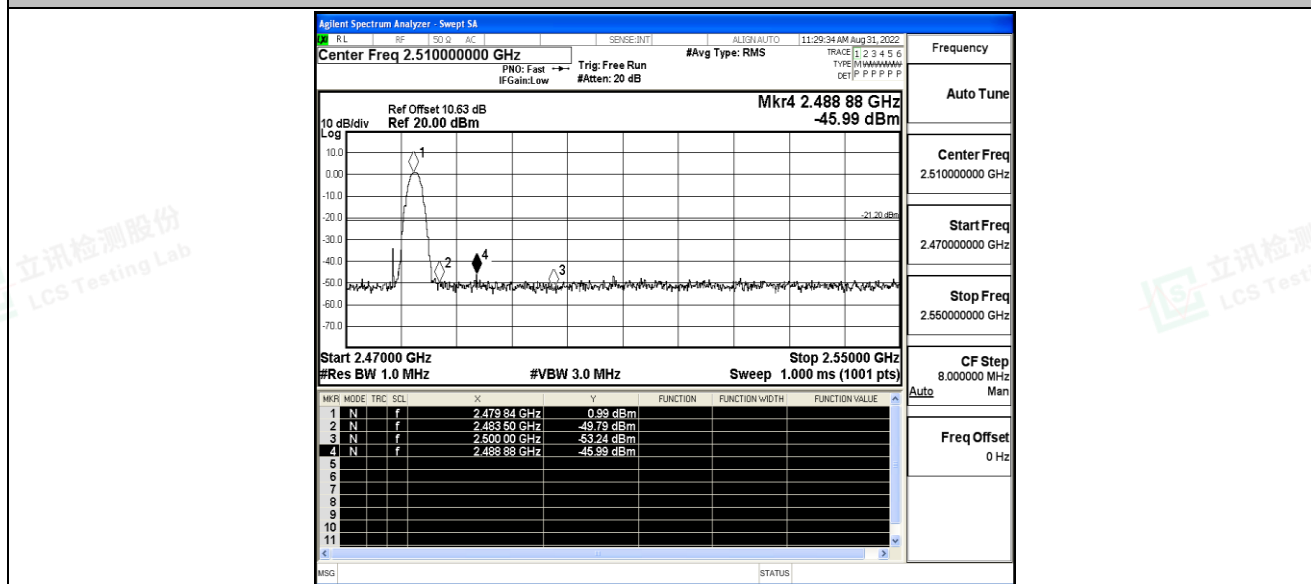
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

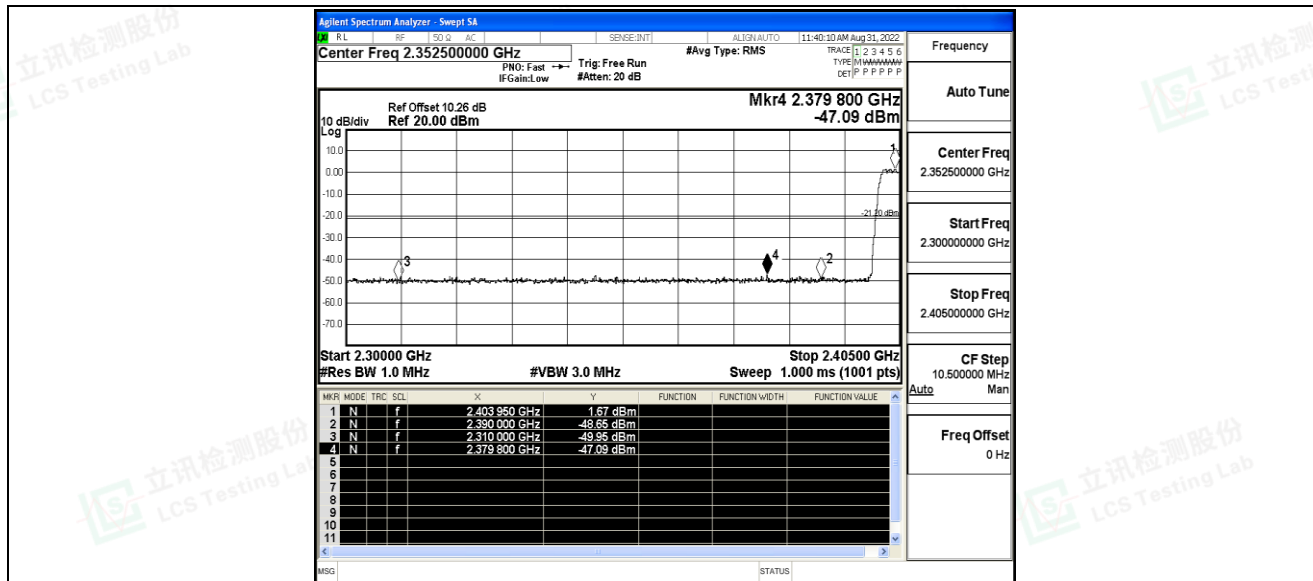


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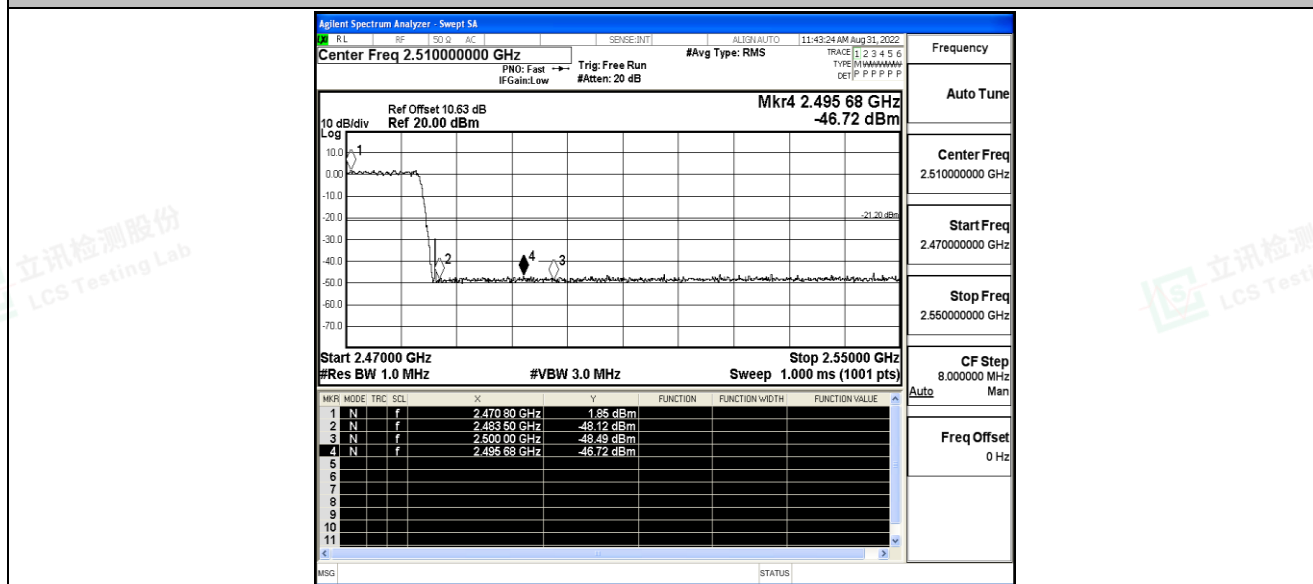
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