



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: All-In-One Touch Screen

Test Model: HS-65IW-L06PA

Environmental Conditions

Temperature:	24.1℃
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan



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A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.981	2401.508	2402.489	---
		2441	1.008	2440.466	2441.474	---
		2480	1.017	2479.463	2480.480	---
2DH5	Ant1	2402	1.329	2401.319	2402.648	---
		2441	1.290	2440.346	2441.636	---
		2480	1.359	2479.307	2480.666	---
3DH5	Ant1	2402	1.296	2401.337	2402.633	---
		2441	1.302	2440.334	2441.636	---
		2480	1.305	2479.334	2480.639	---



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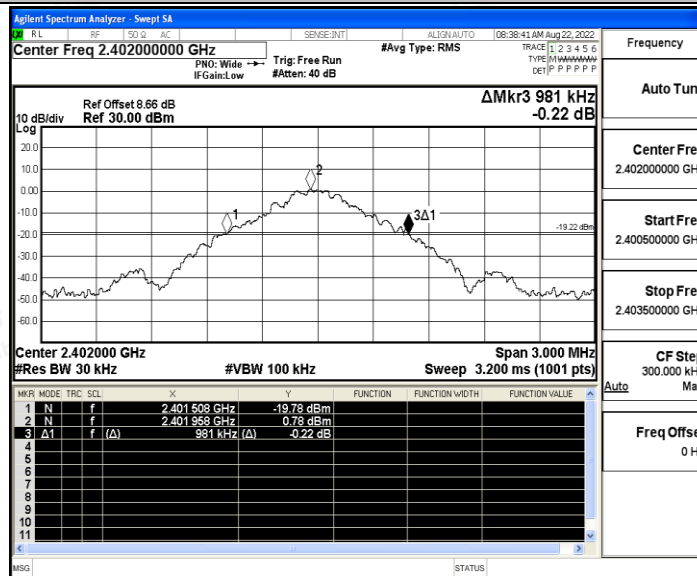
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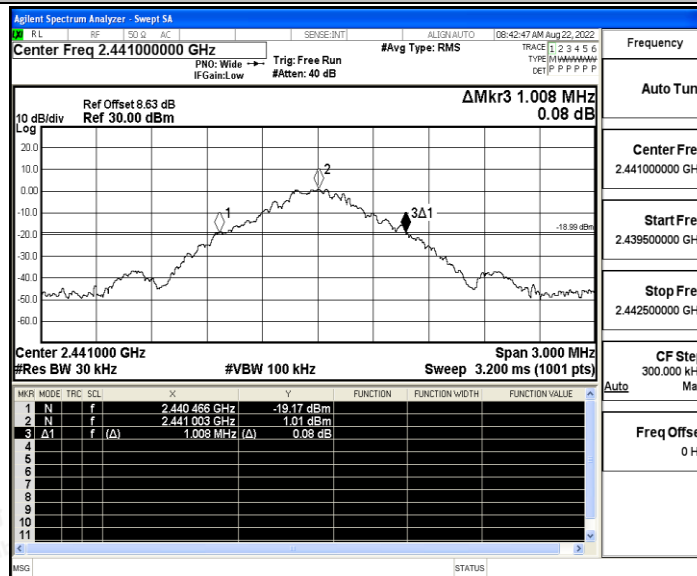


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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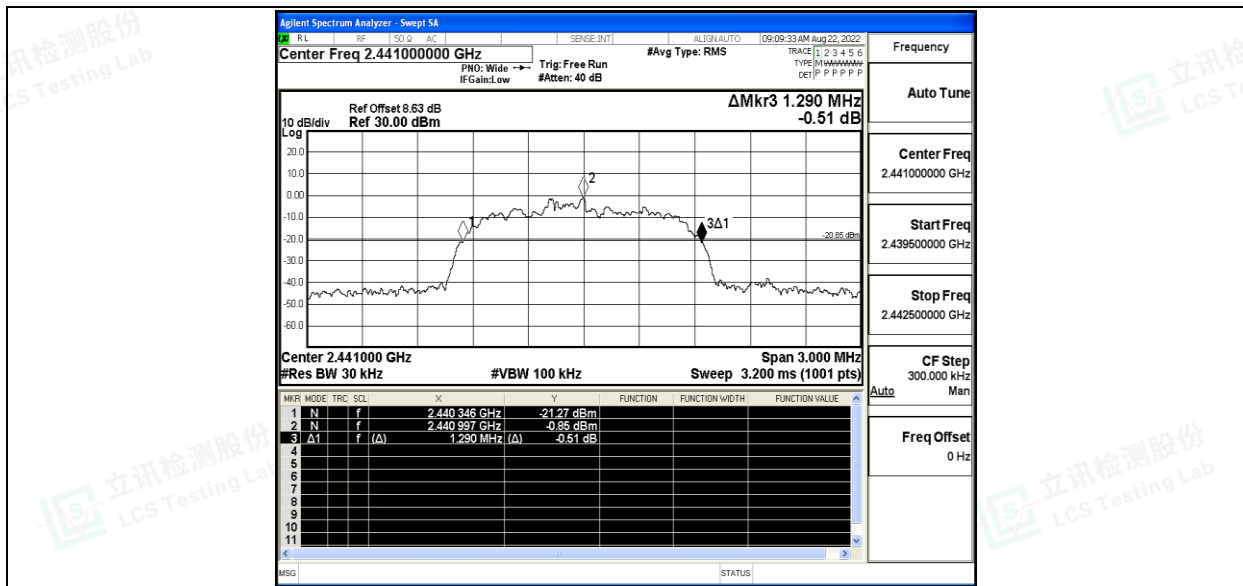


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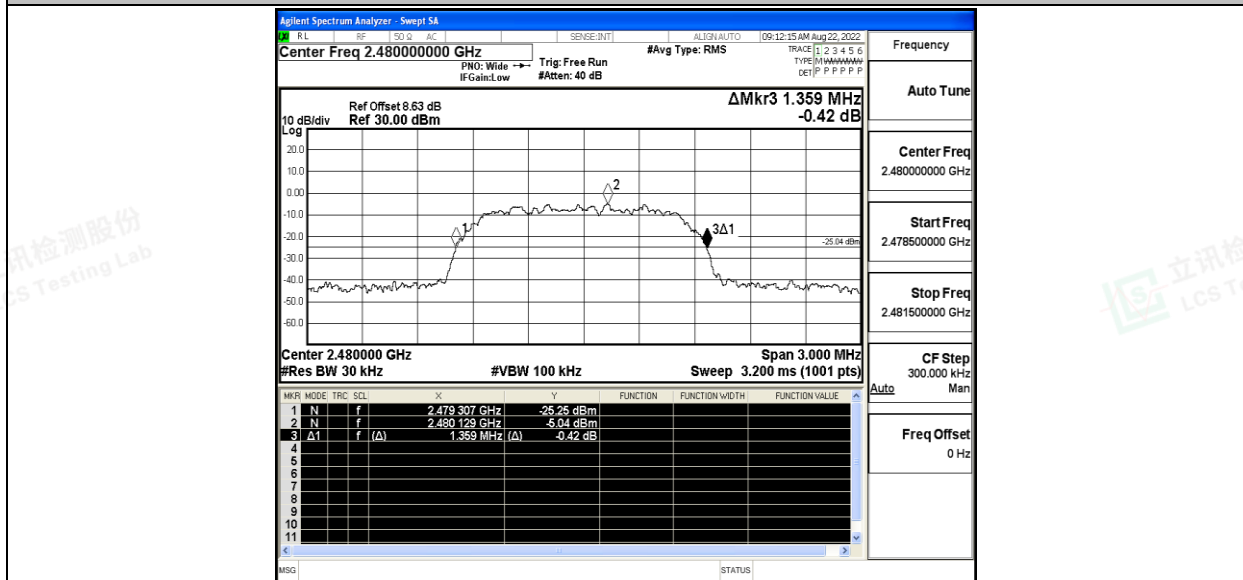
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2DH5_Ant1_2480



3DH5_Ant1_2402



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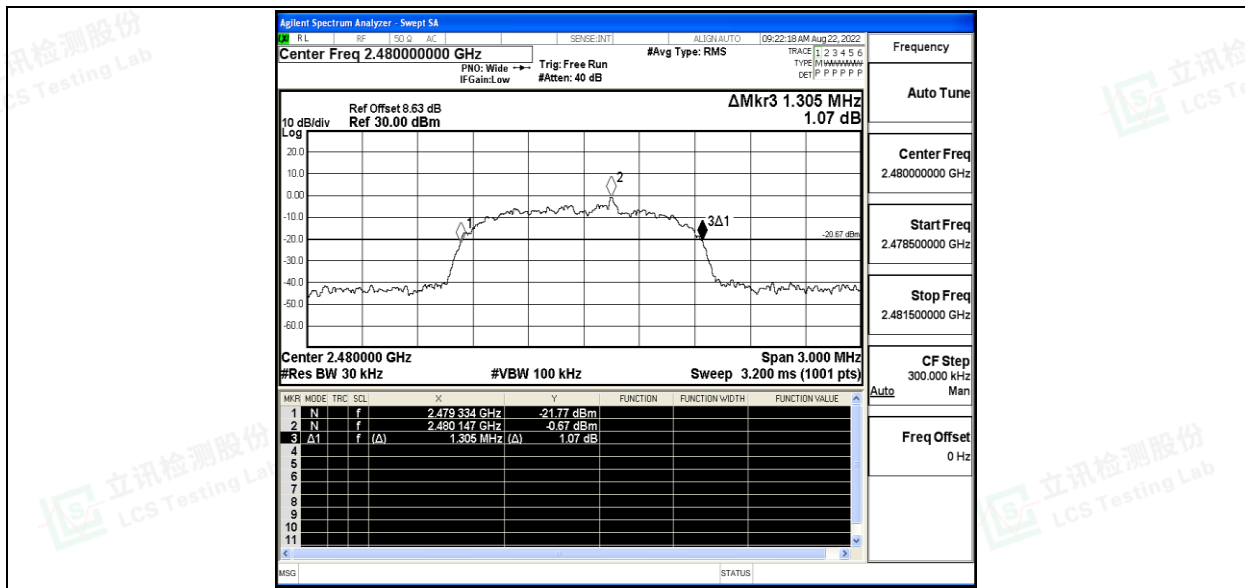


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.77	≤20.97	PASS
		2441	4.05	≤20.97	PASS
		2480	4.03	≤20.97	PASS
2DH5	Ant1	2402	3.56	≤20.97	PASS
		2441	4.04	≤20.97	PASS
		2480	4.05	≤20.97	PASS
3DH5	Ant1	2402	3.77	≤20.97	PASS
		2441	4.06	≤20.97	PASS
		2480	4.06	≤20.97	PASS



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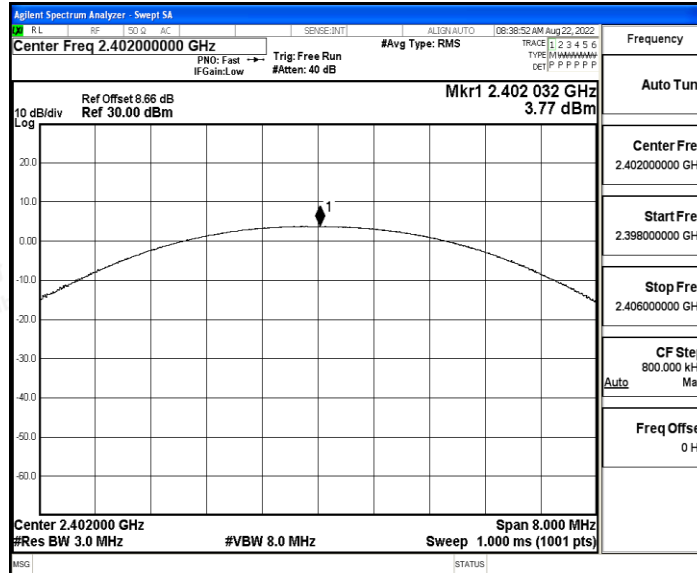
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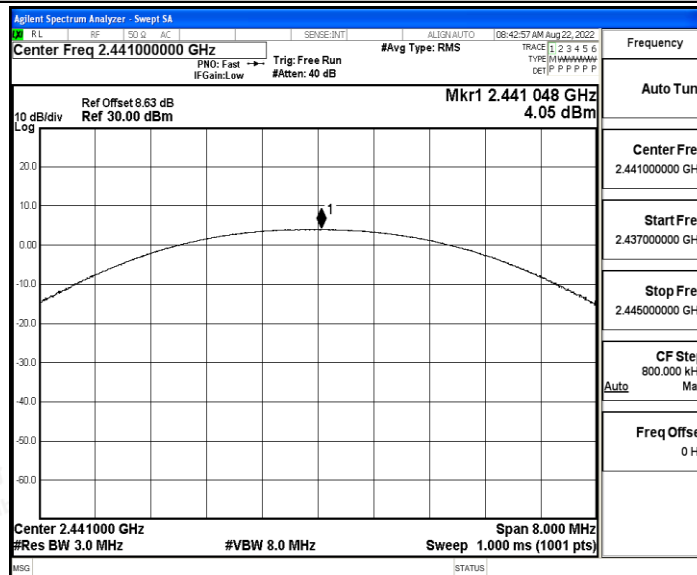


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

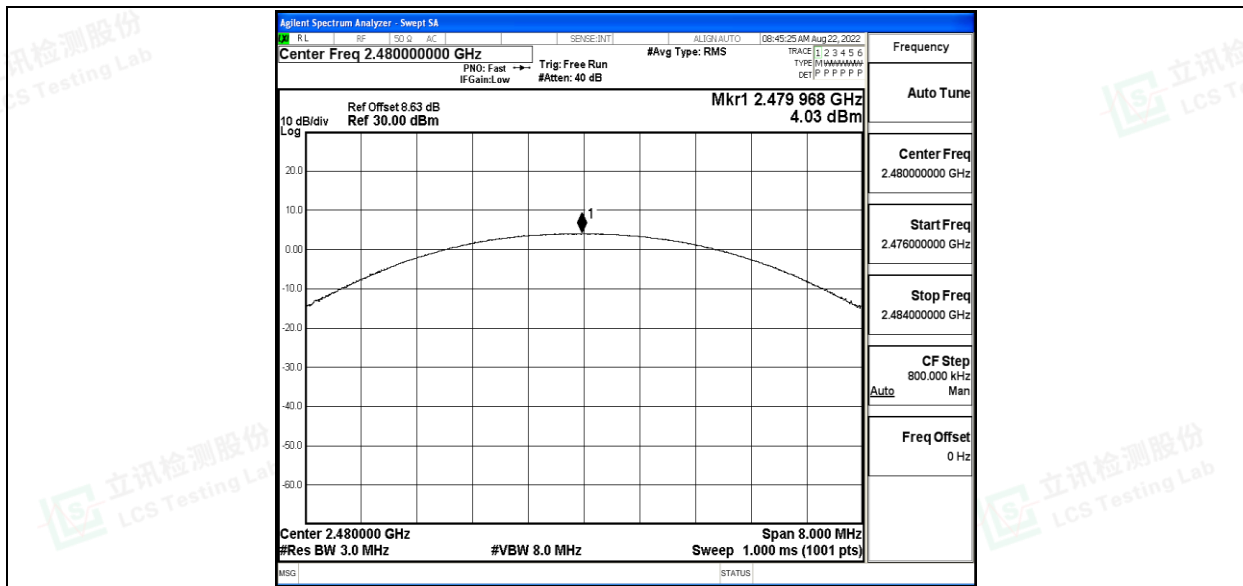


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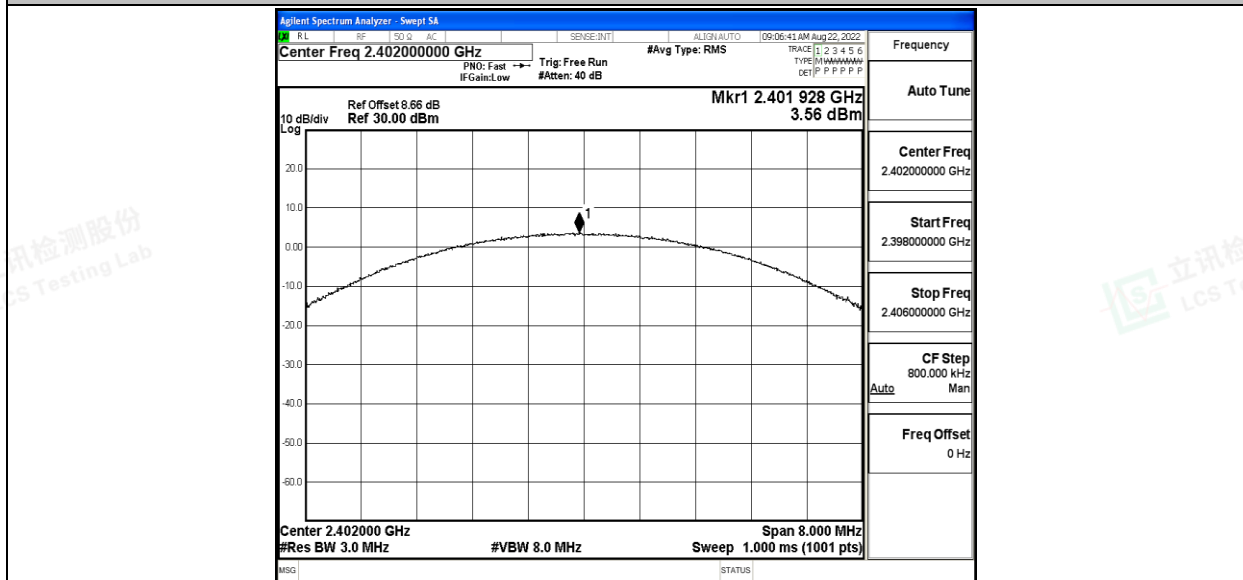
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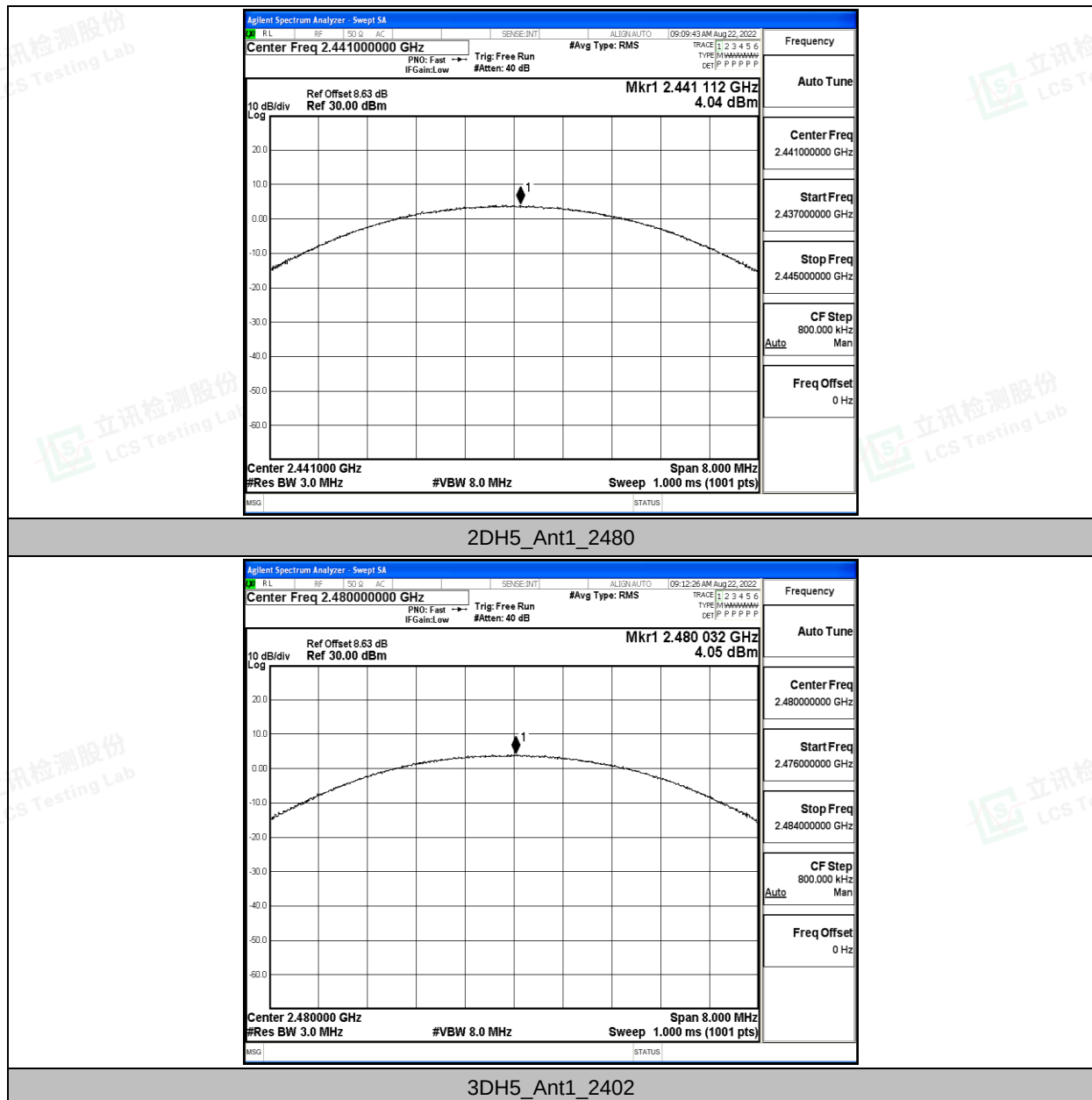
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2DH5_Ant1_2402



2DH5_Ant1_2441

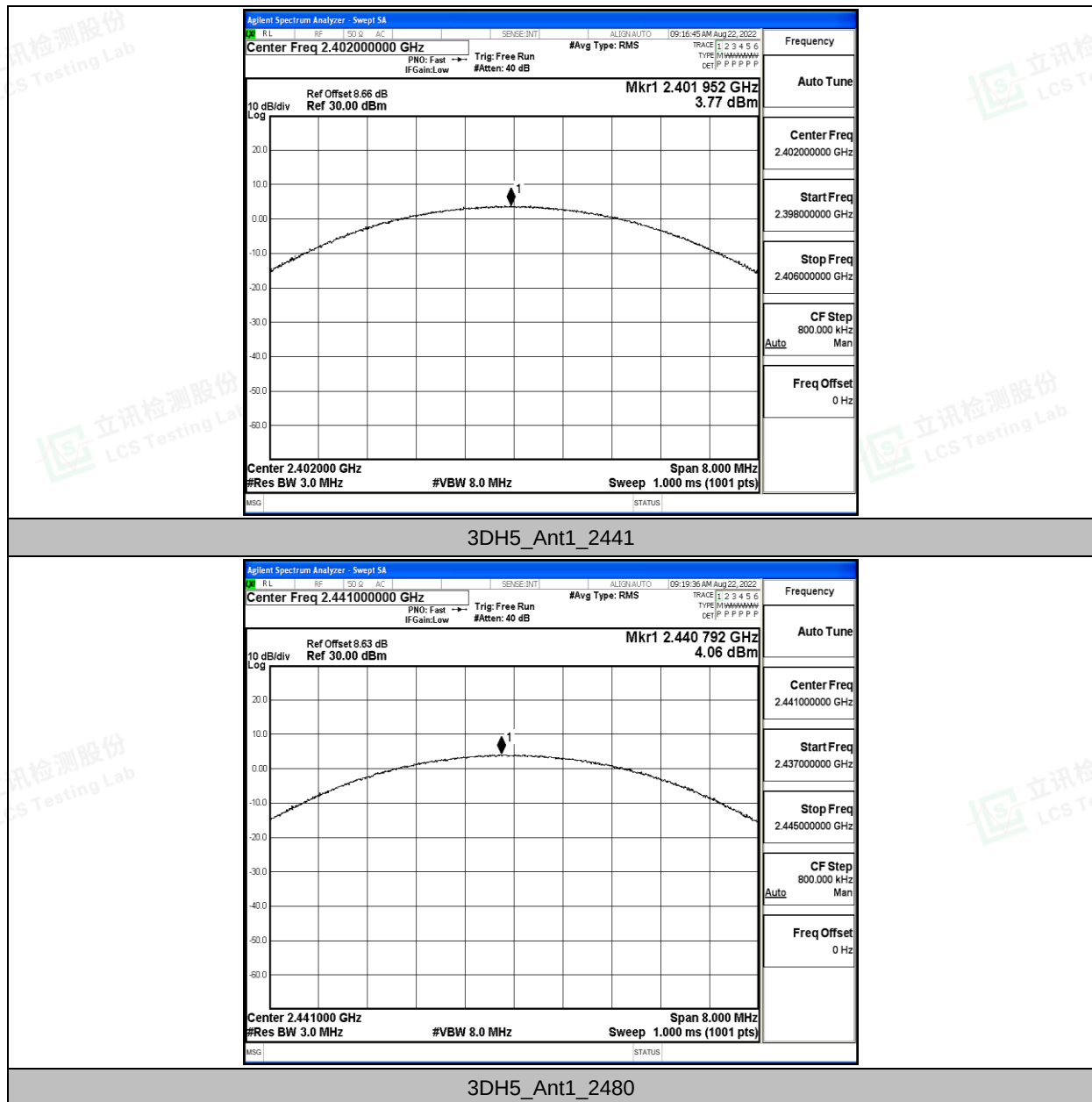


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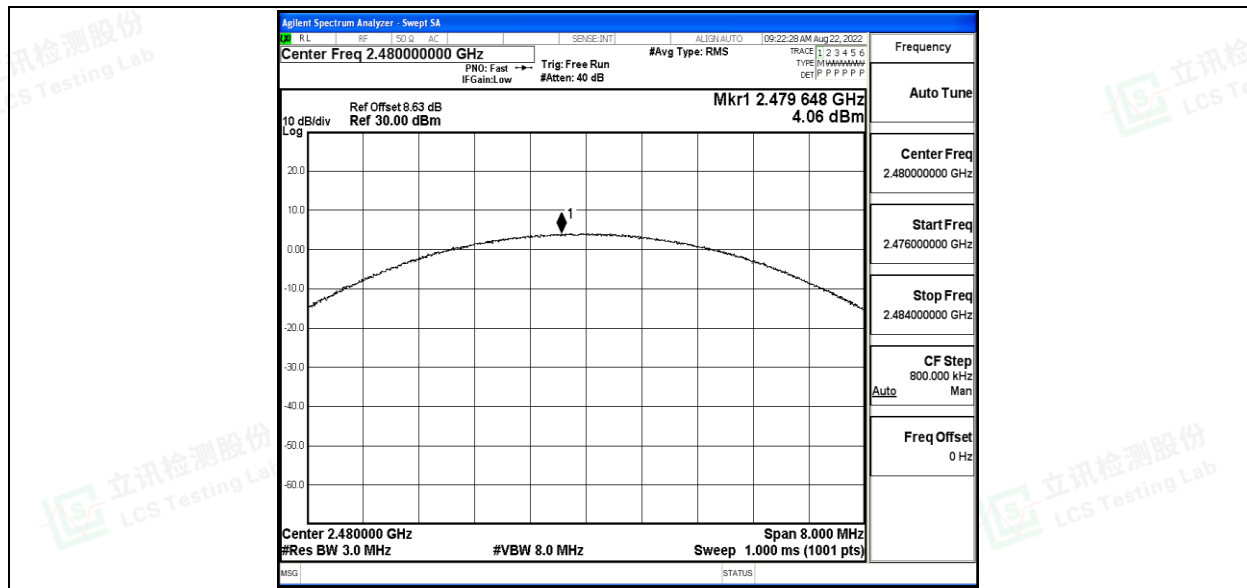


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.042	≥ 1.017	PASS
2DH5	Ant1	Hop	1.286	≥ 0.906	PASS
3DH5	Ant1	Hop	1.16	≥ 0.870	PASS



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Test Graphs

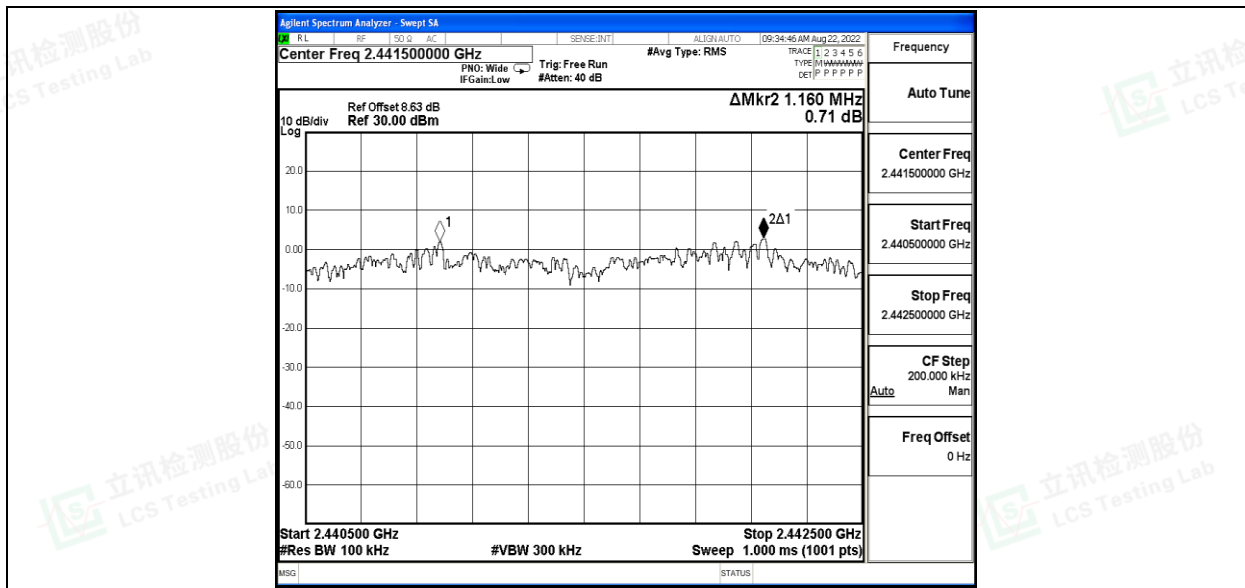


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A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	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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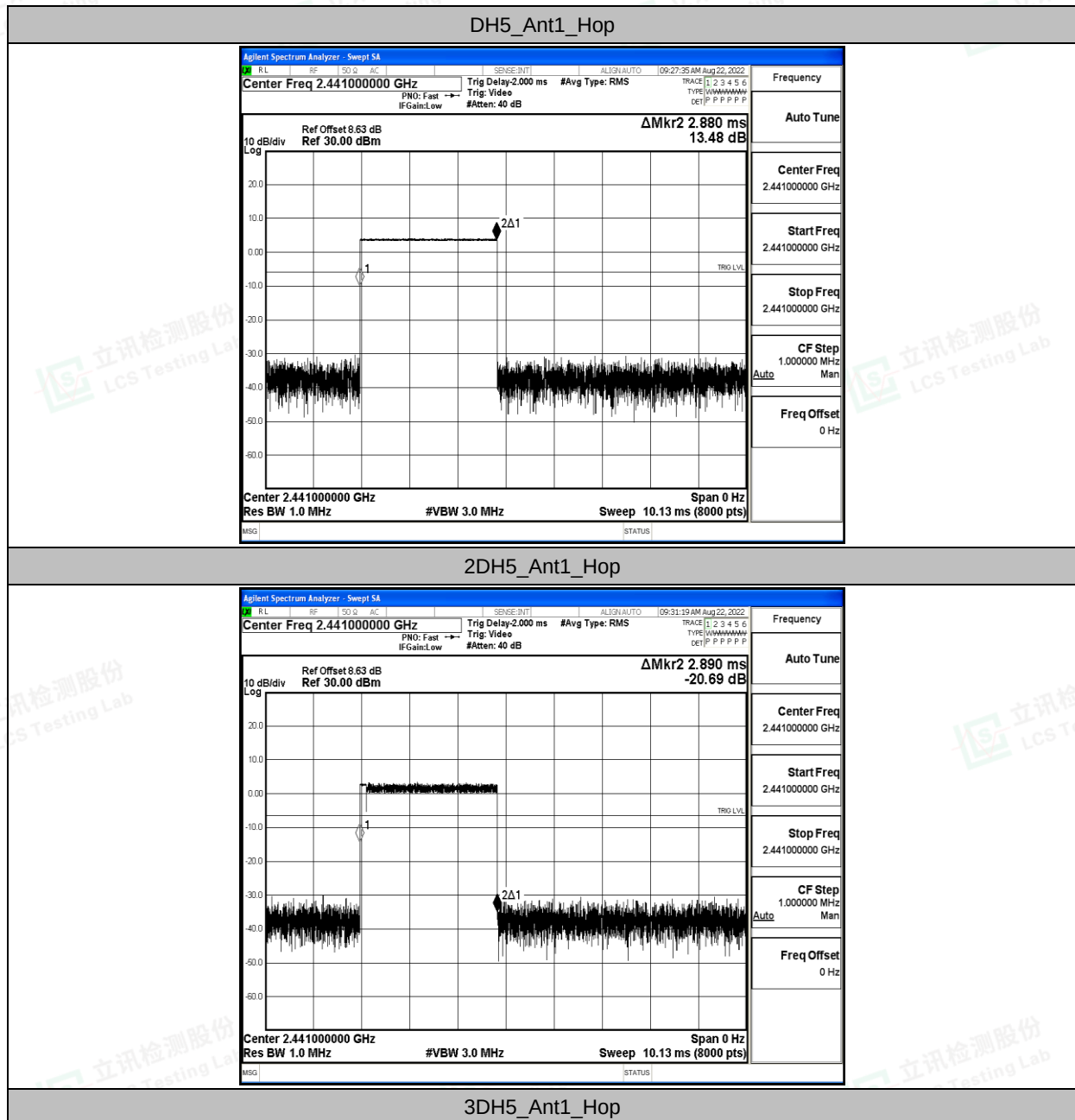
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Test Graphs

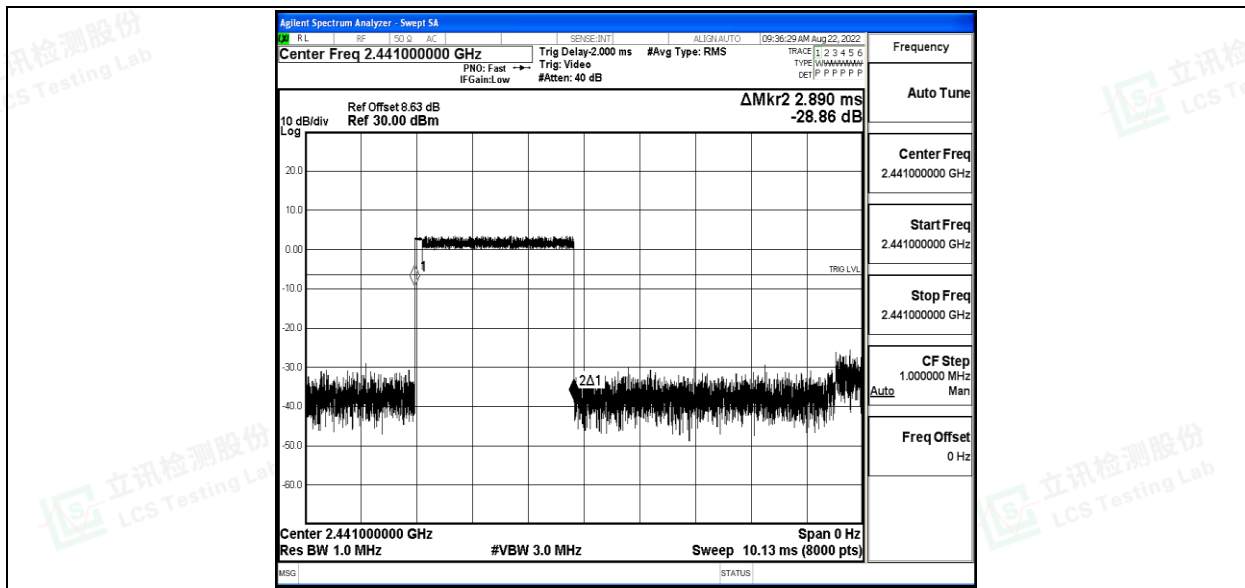


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A.5 Number of hopping channels

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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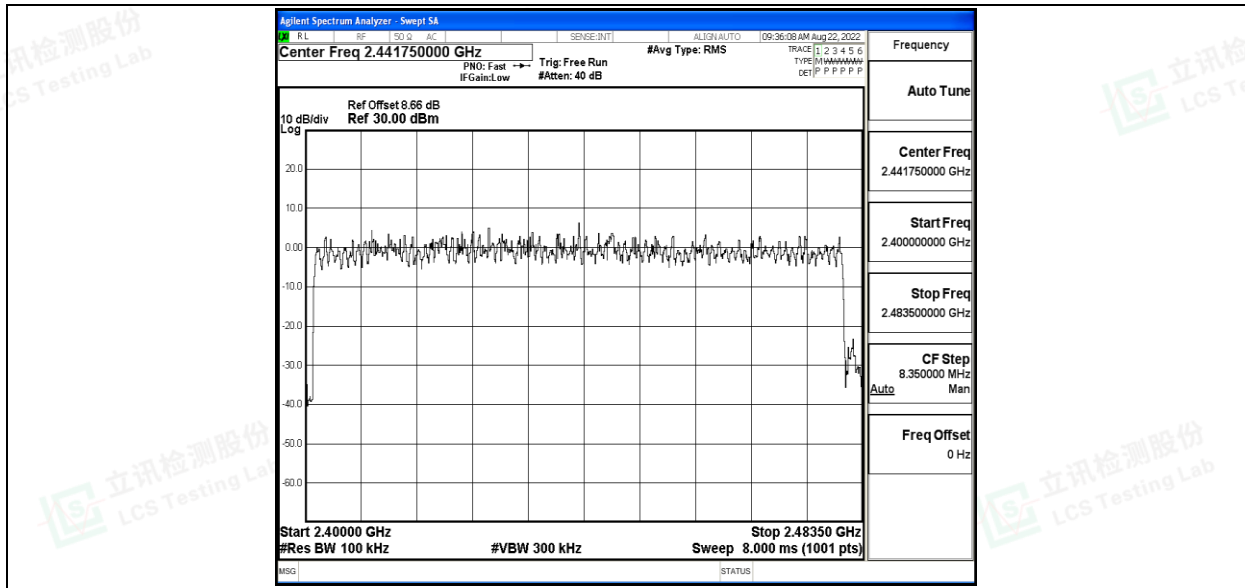


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.36	-56.08	≤ -17.64	PASS
		High	2480	2.62	-59.22	≤ -17.38	PASS
		Low	Hop_2402	1.94	-58.74	≤ -18.07	PASS
		High	Hop_2480	3.05	-57.52	≤ -16.95	PASS
2DH5	Ant1	Low	2402	-0.37	-52.4	≤ -20.37	PASS
		High	2480	1.79	-58.62	≤ -18.21	PASS
		Low	Hop_2402	-1.64	-58.29	≤ -21.64	PASS
		High	Hop_2480	1.39	-57.13	≤ -18.61	PASS
3DH5	Ant1	Low	2402	-2.10	-55.6	≤ -22.1	PASS
		High	2480	-0.38	-54.6	≤ -20.38	PASS
		Low	Hop_2402	0.86	-58.51	≤ -19.14	PASS
		High	Hop_2480	1.84	-57.2	≤ -18.16	PASS



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Test Graphs

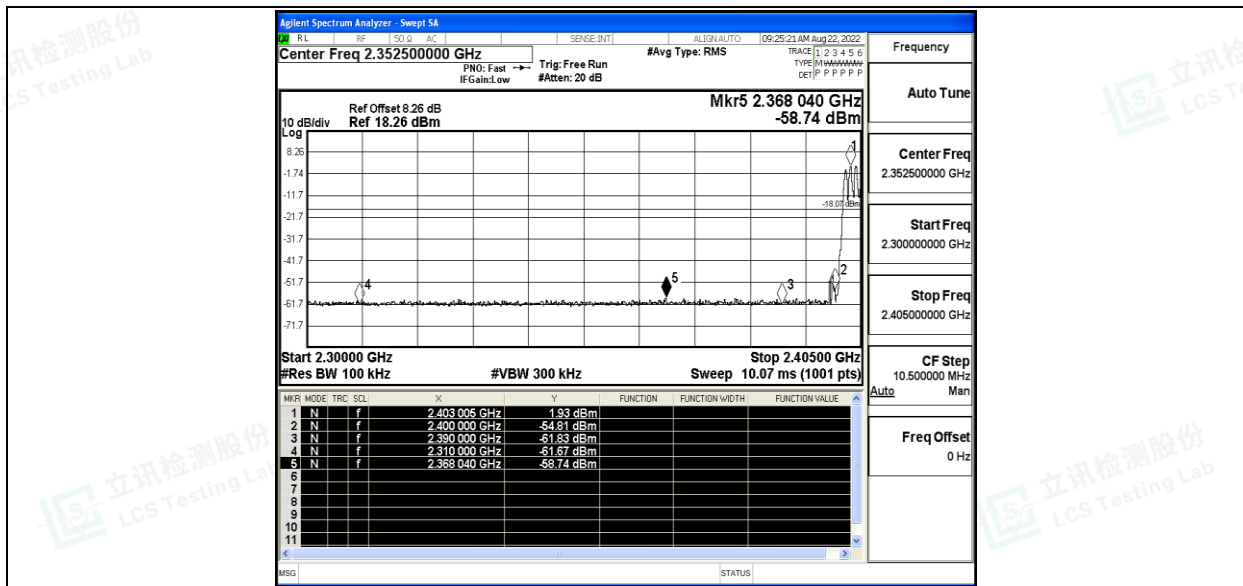


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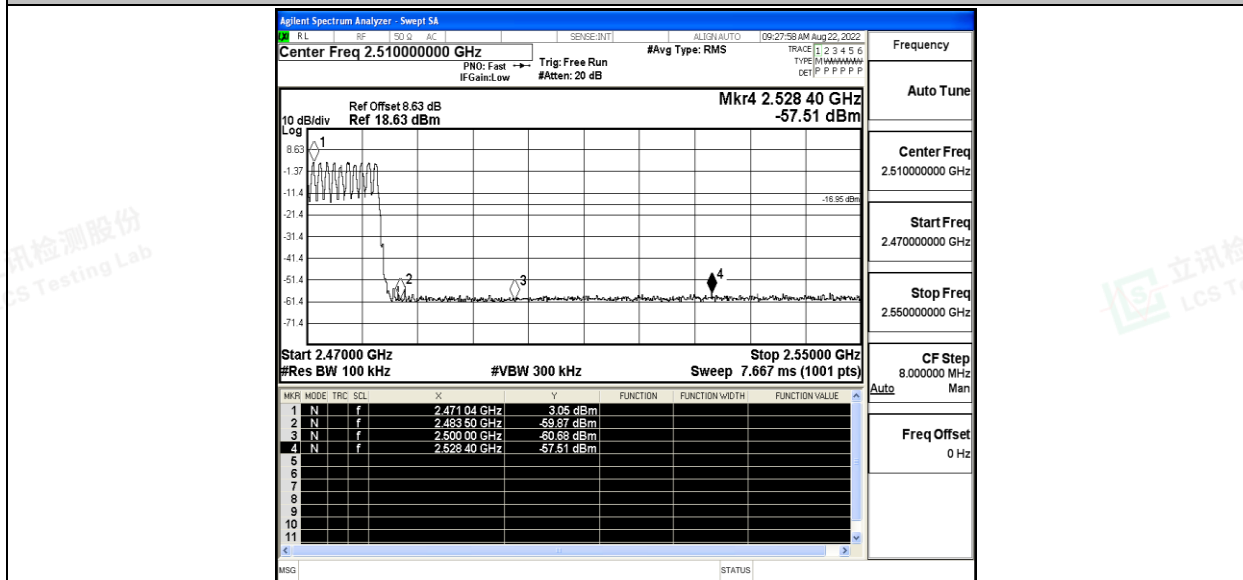
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

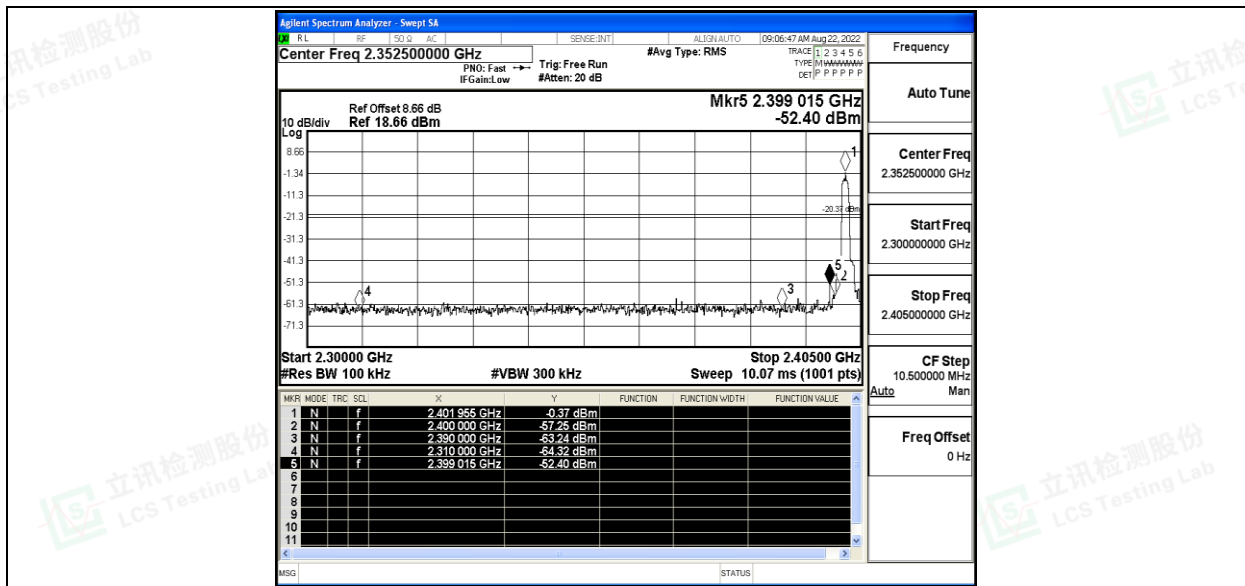


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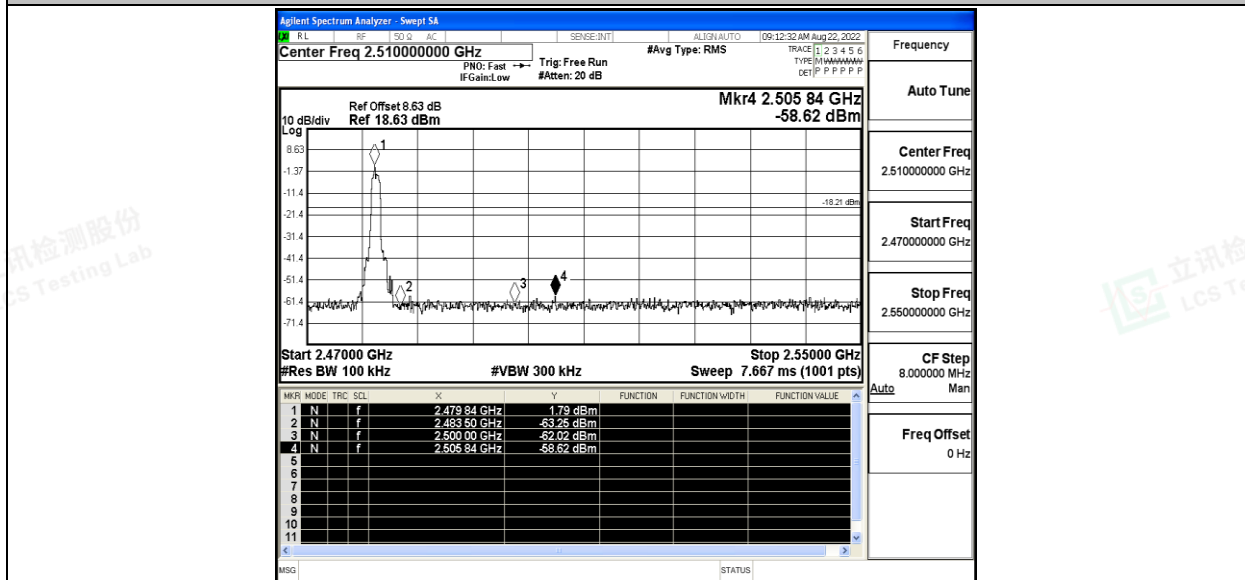
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

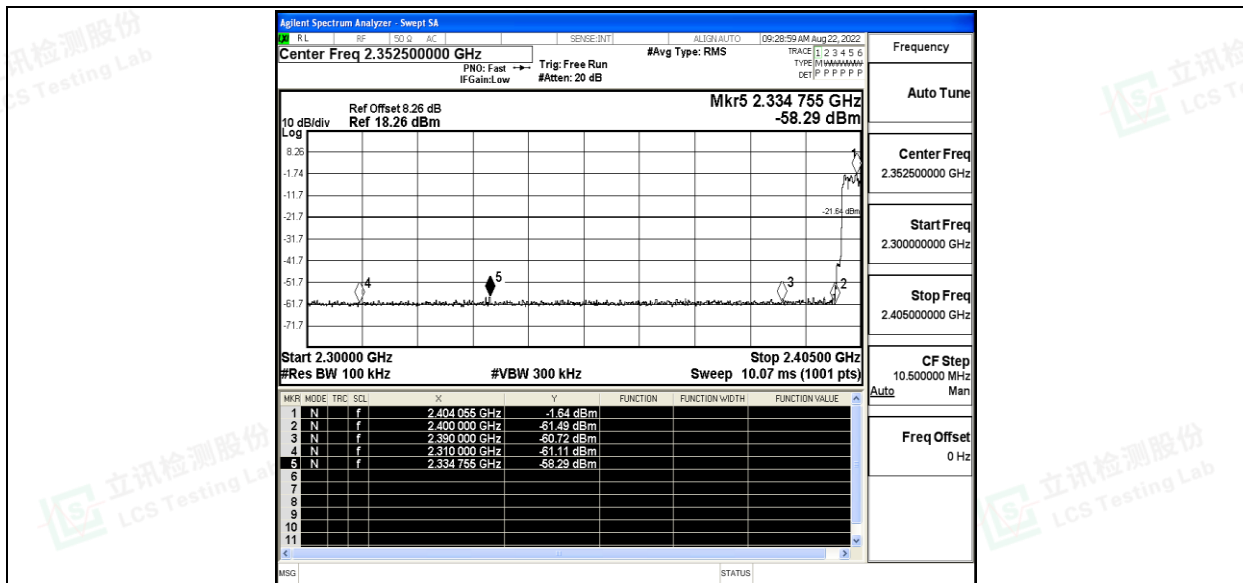


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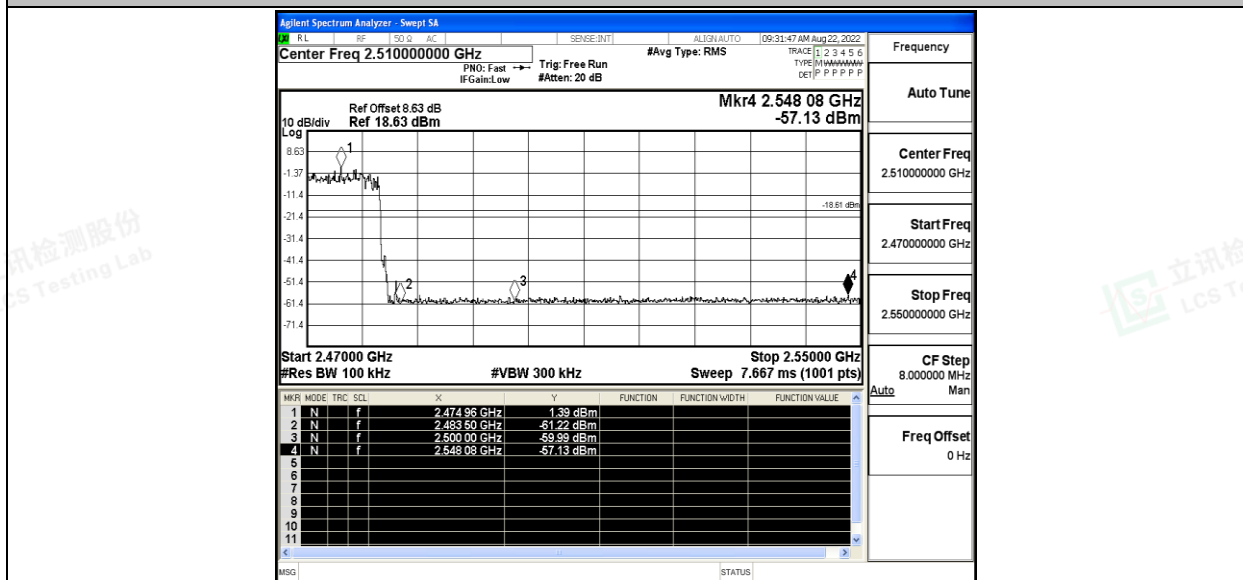
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

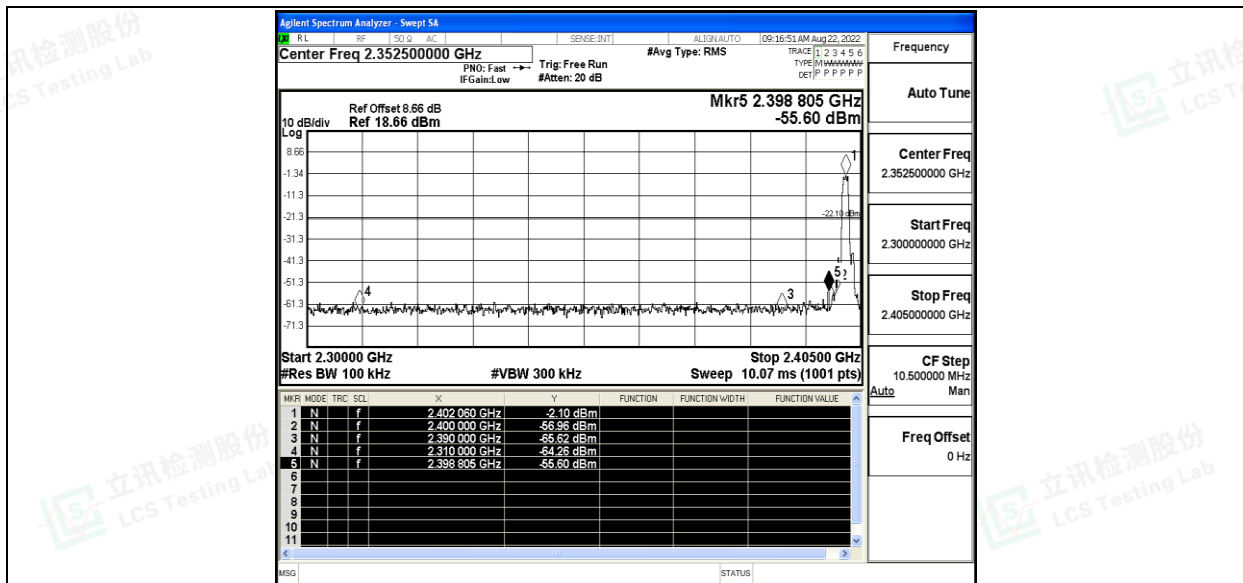


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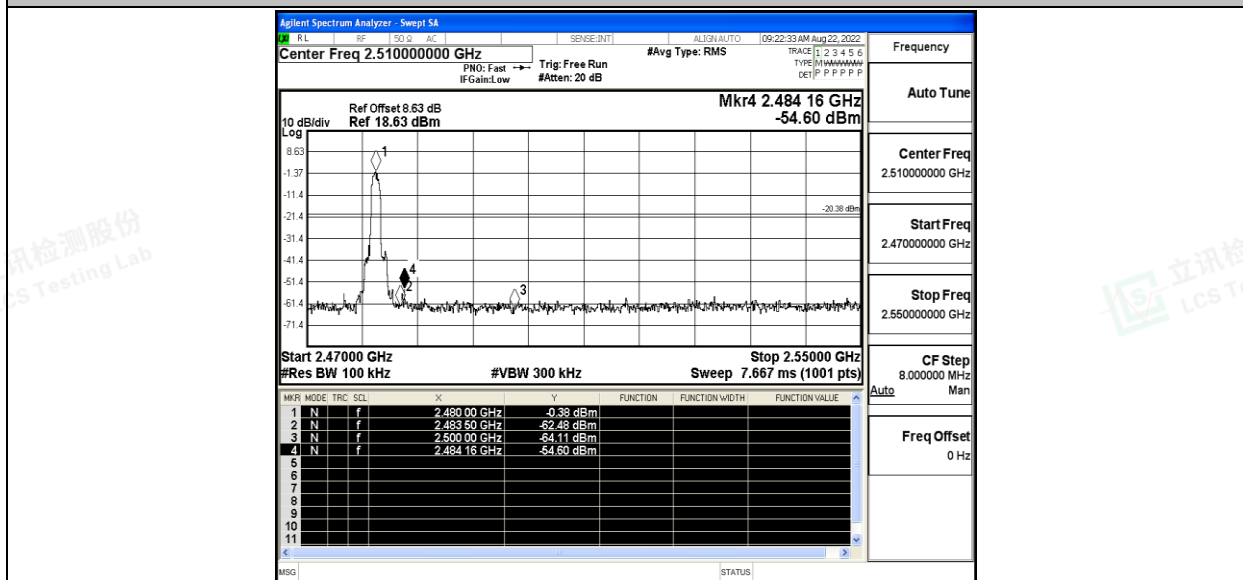
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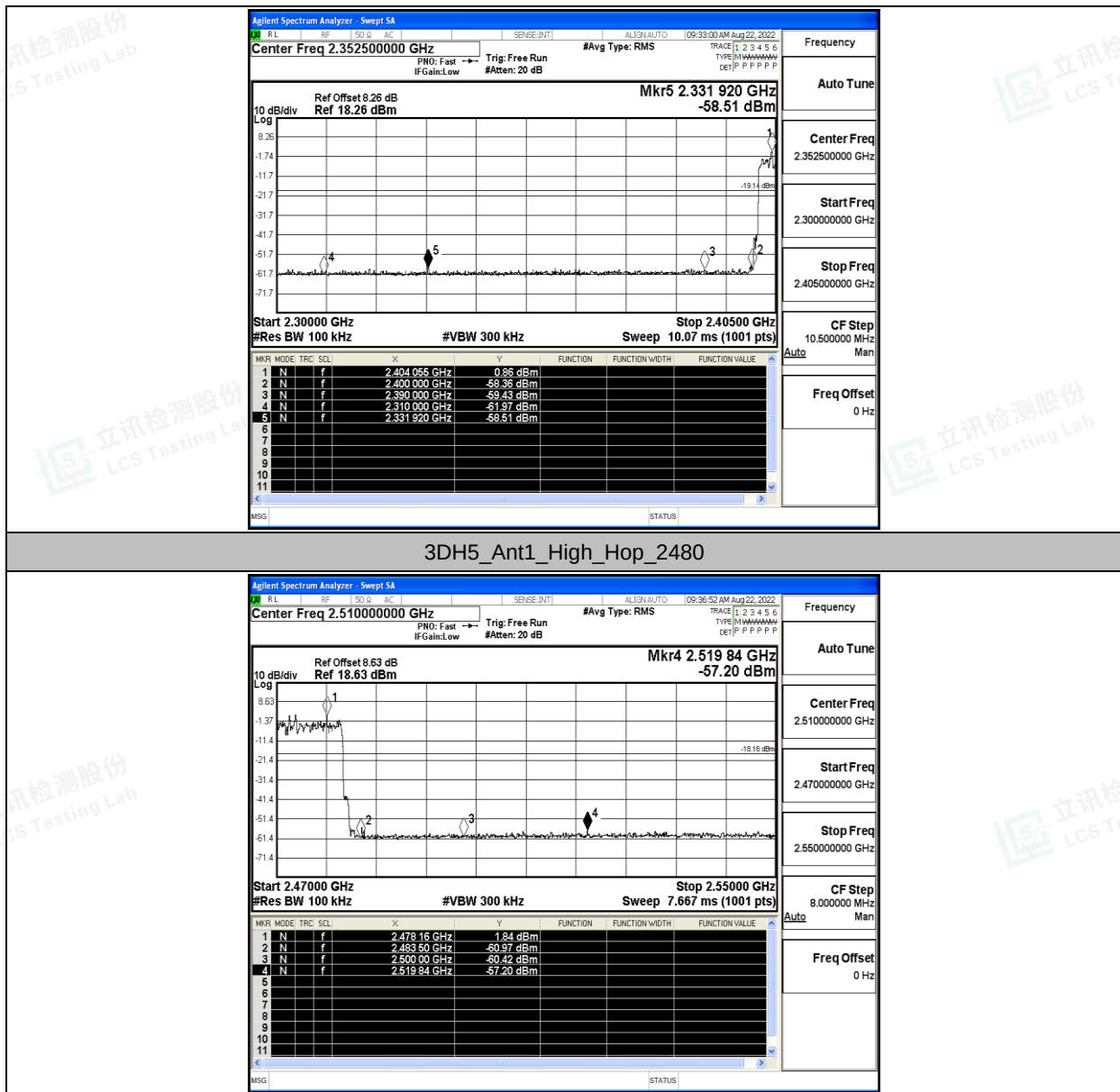
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



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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	2.96	2.96	---	PASS
			30~1000	2.96	-60.47	≤ -17.04	PASS
			1000~26500	2.96	-46.41	≤ -17.04	PASS
		2441	Reference	3.13	3.13	---	PASS
			30~1000	3.13	-60.38	≤ -16.87	PASS
			1000~26500	3.13	-45.62	≤ -16.87	PASS
		2480	Reference	3.15	3.15	---	PASS
			30~1000	3.15	-60.62	≤ -16.85	PASS
			1000~26500	3.15	-46.54	≤ -16.85	PASS
2DH5	Ant1	2402	Reference	0.01	0.01	---	PASS
			30~1000	0.01	-60.42	≤ -19.99	PASS
			1000~26500	0.01	-46.53	≤ -19.99	PASS
		2441	Reference	2.64	2.64	---	PASS
			30~1000	2.64	-60.42	≤ -17.36	PASS
			1000~26500	2.64	-45.81	≤ -17.36	PASS
		2480	Reference	-1.42	-1.42	---	PASS
			30~1000	-1.42	-60.37	≤ -21.42	PASS
			1000~26500	-1.42	-46.57	≤ -21.42	PASS
3DH5	Ant1	2402	Reference	0.39	0.39	---	PASS
			30~1000	0.39	-60.64	≤ -19.61	PASS
			1000~26500	0.39	-46.42	≤ -19.61	PASS
		2441	Reference	-0.79	-0.79	---	PASS
			30~1000	-0.79	-60.6	≤ -20.79	PASS
			1000~26500	-0.79	-45.3	≤ -20.79	PASS
		2480	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-60.37	≤ -20.7	PASS
			1000~26500	-0.70	-45.52	≤ -20.7	PASS



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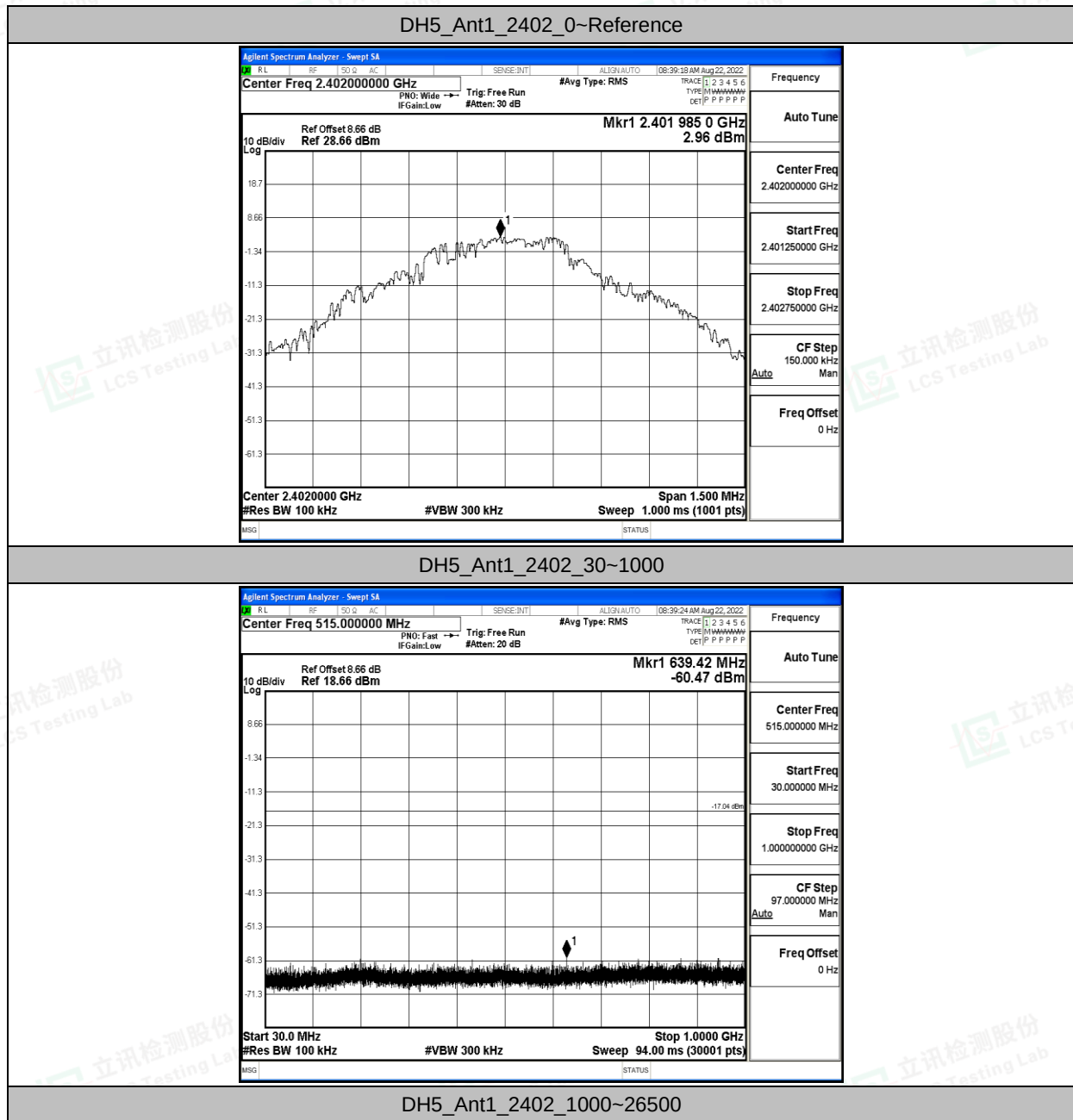
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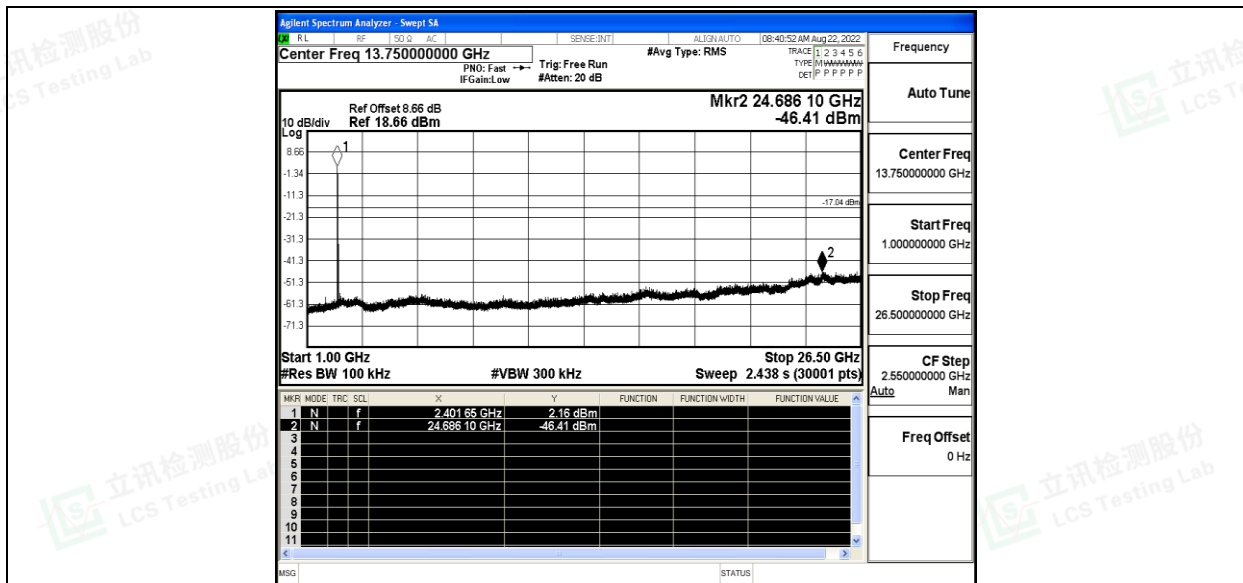


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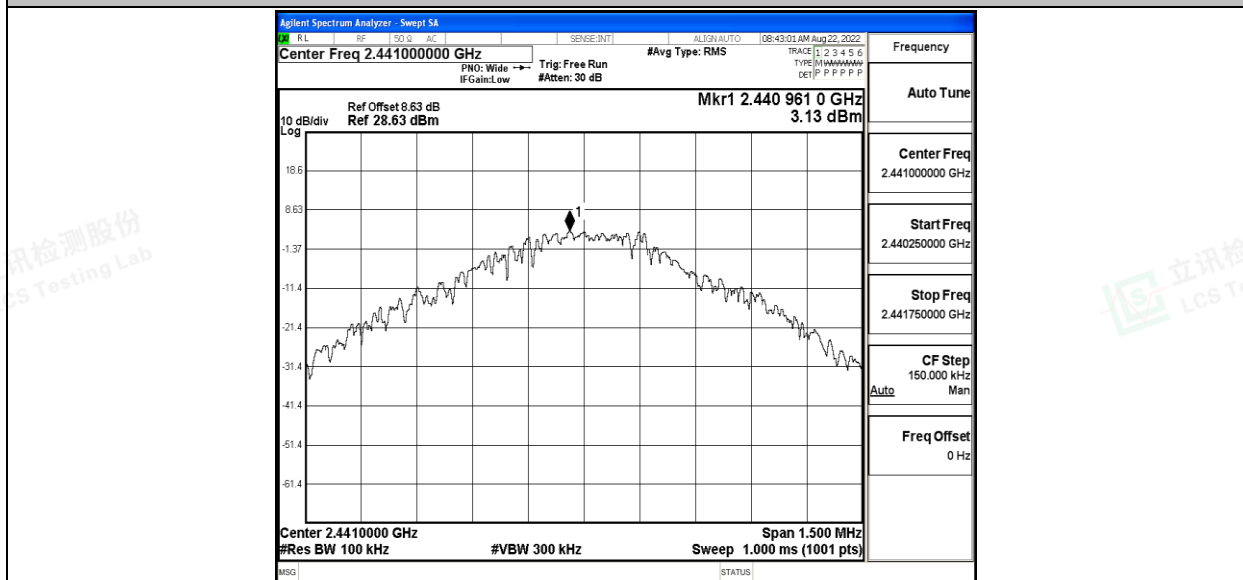
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DH5_Ant1_2441_0-Reference



DH5_Ant1_2441_30~1000

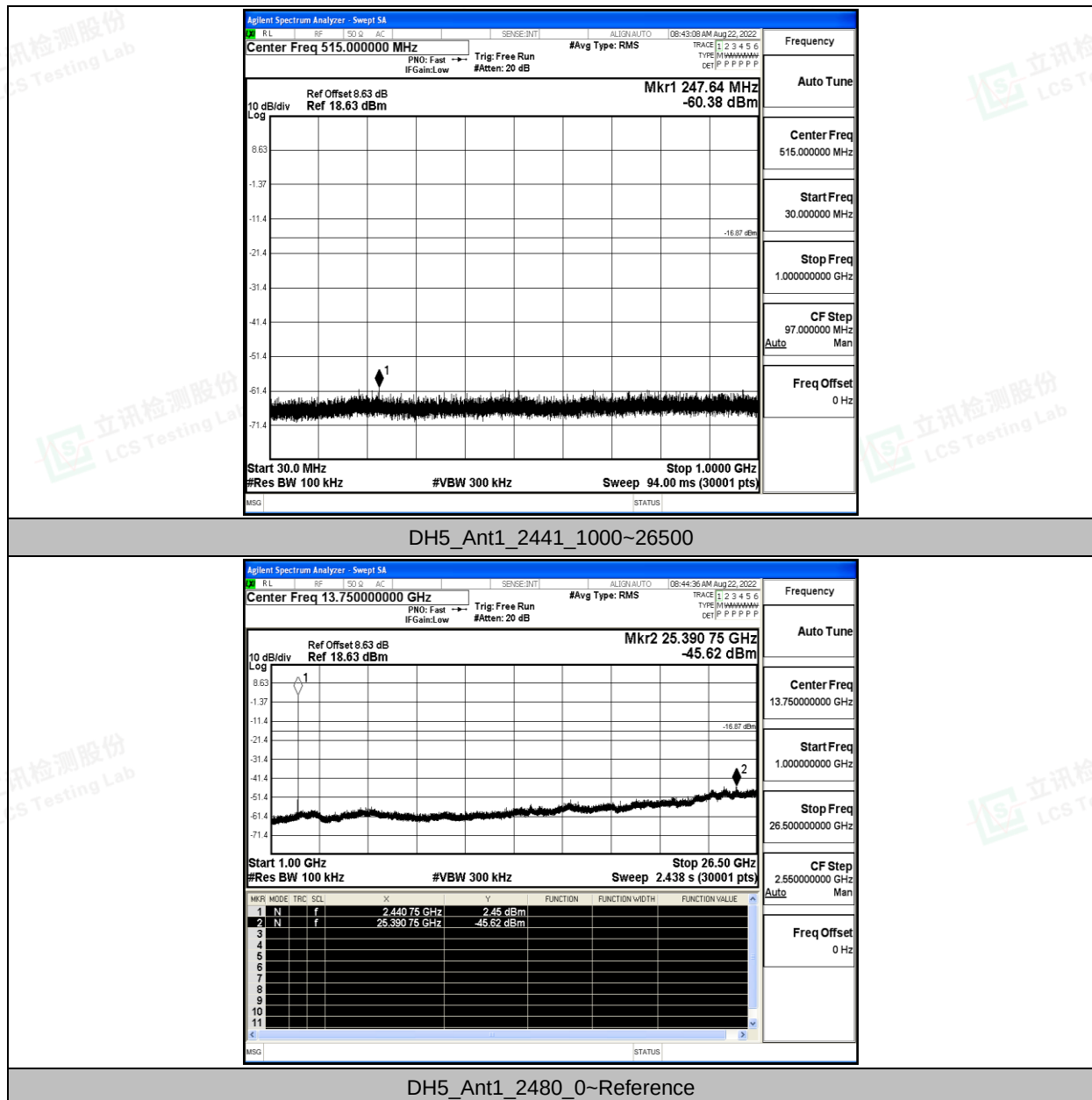


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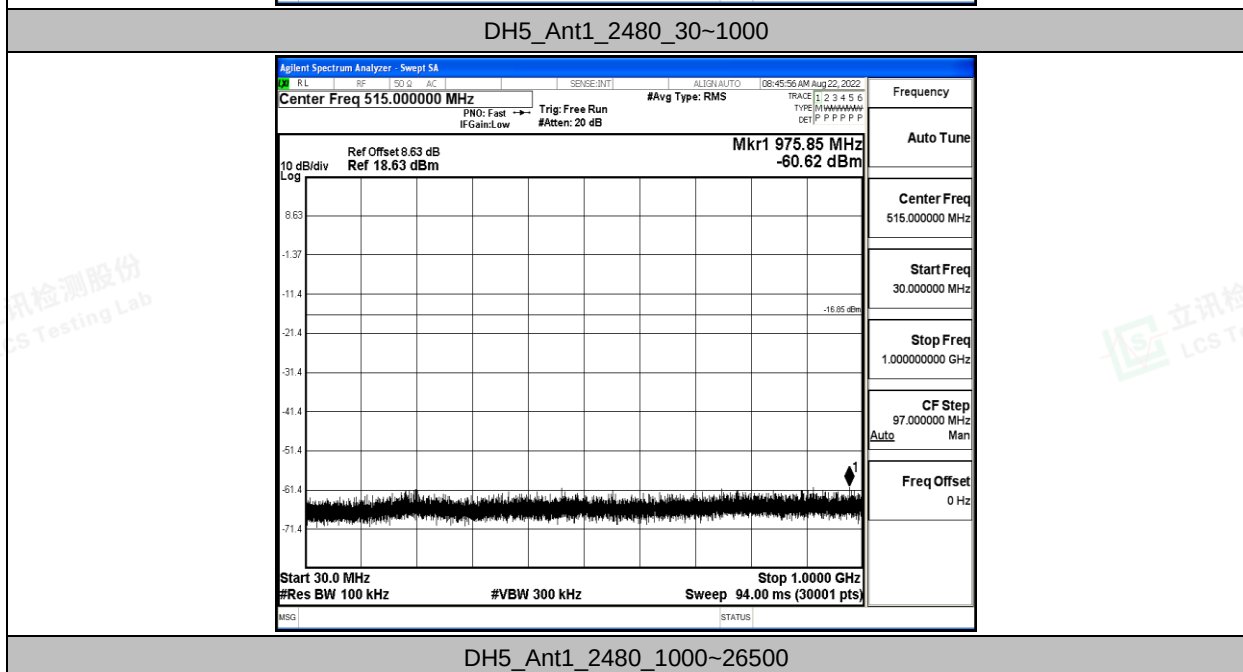
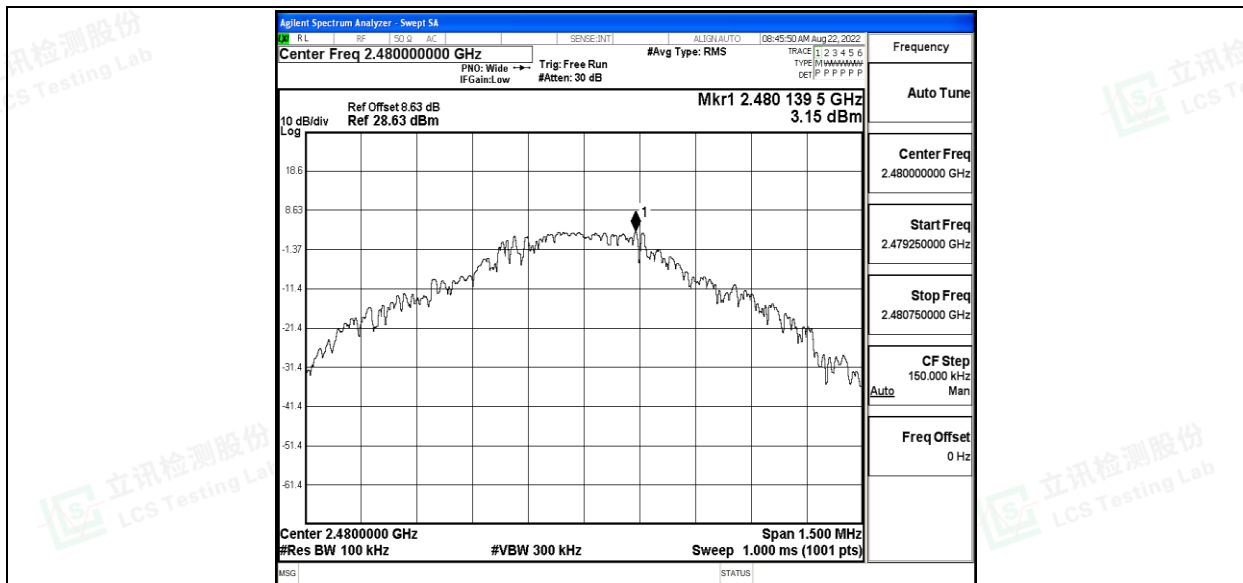


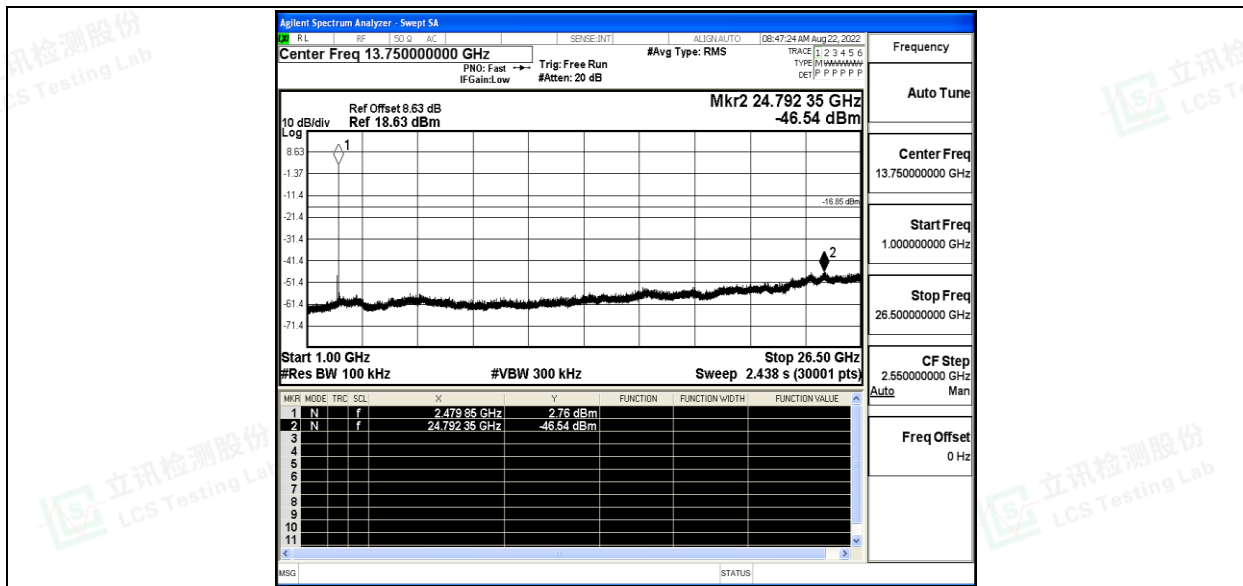
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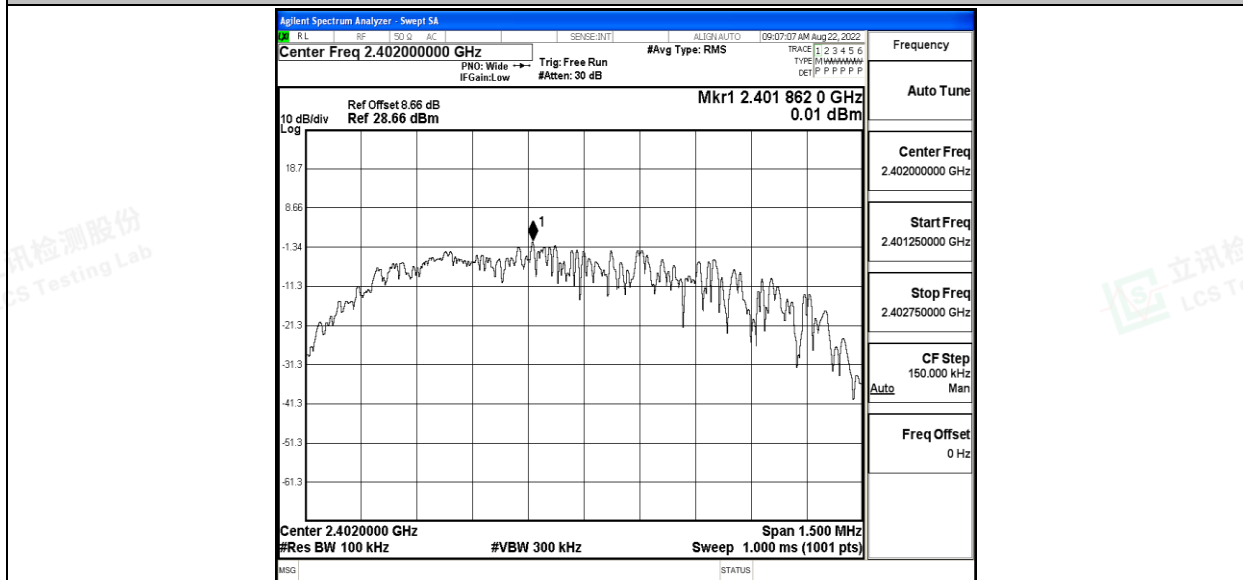
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

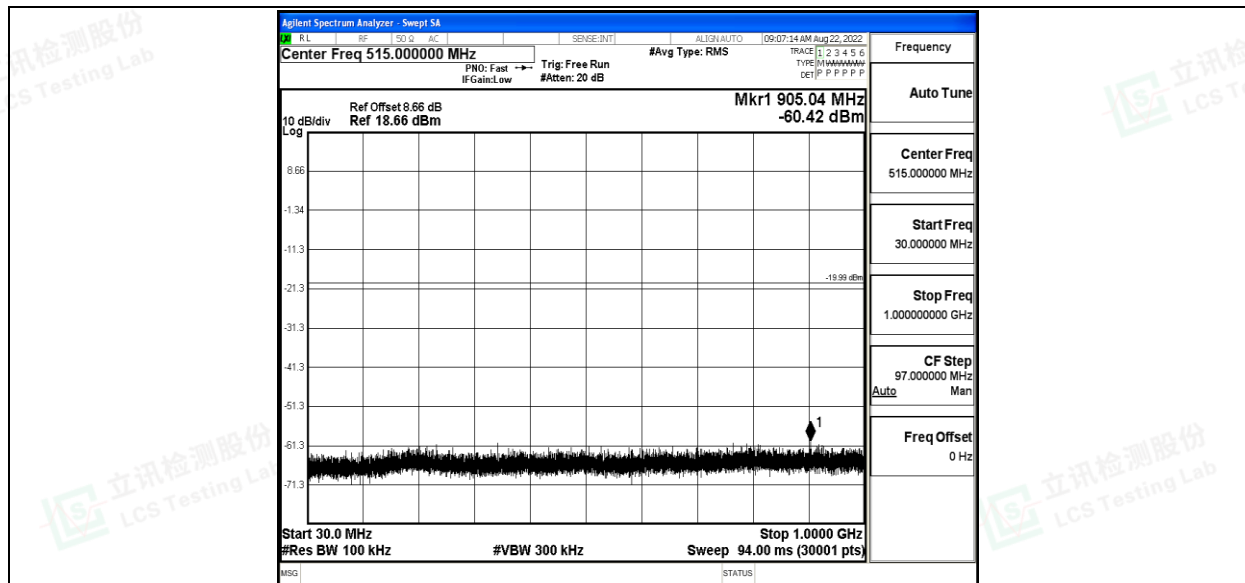


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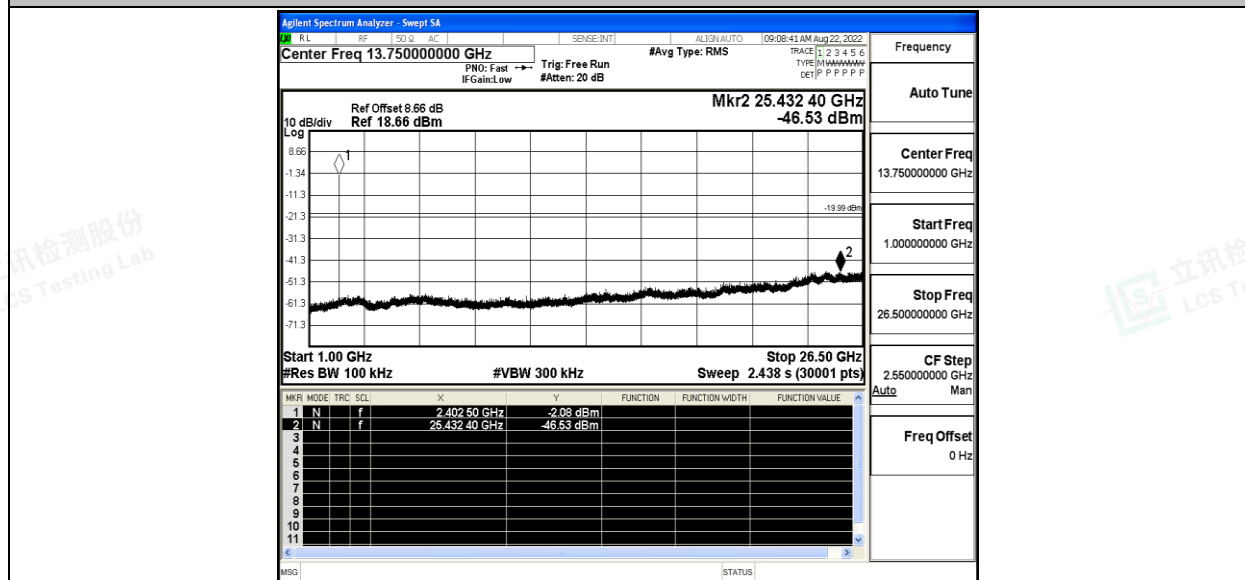
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

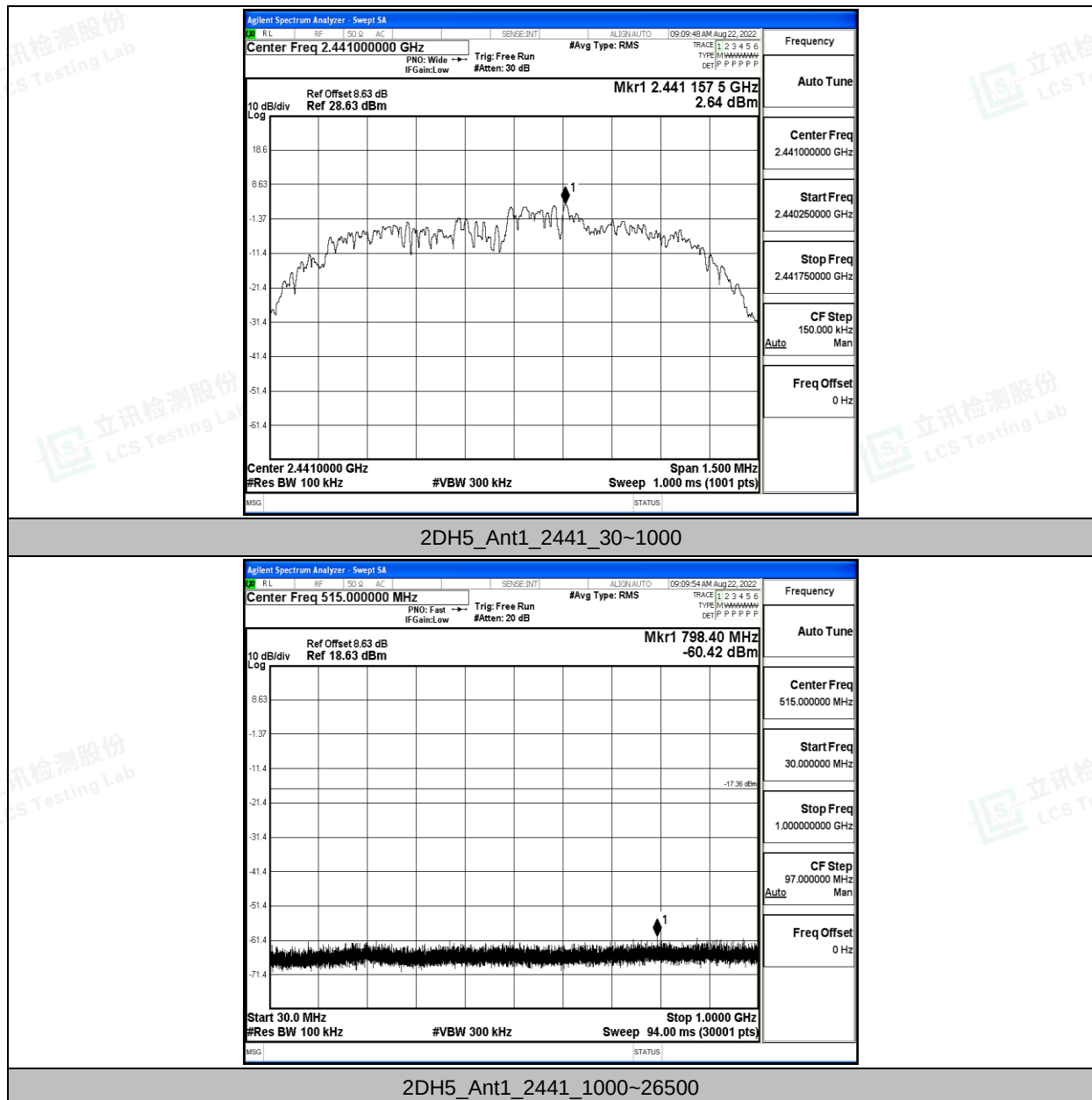


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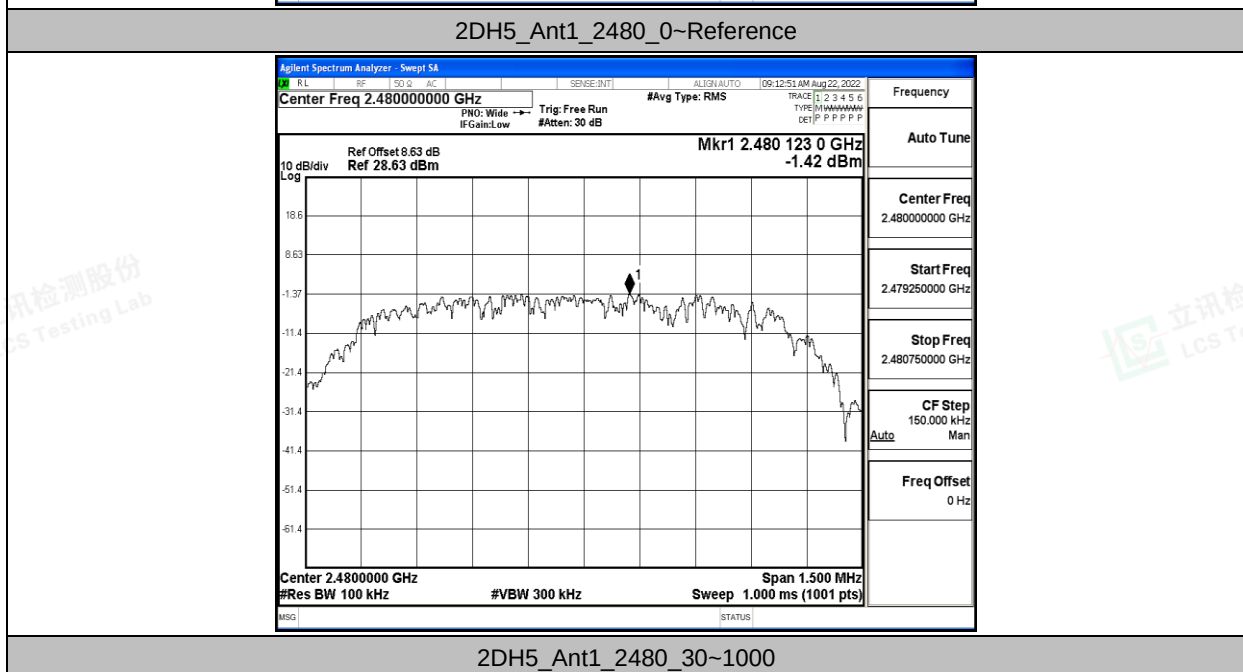
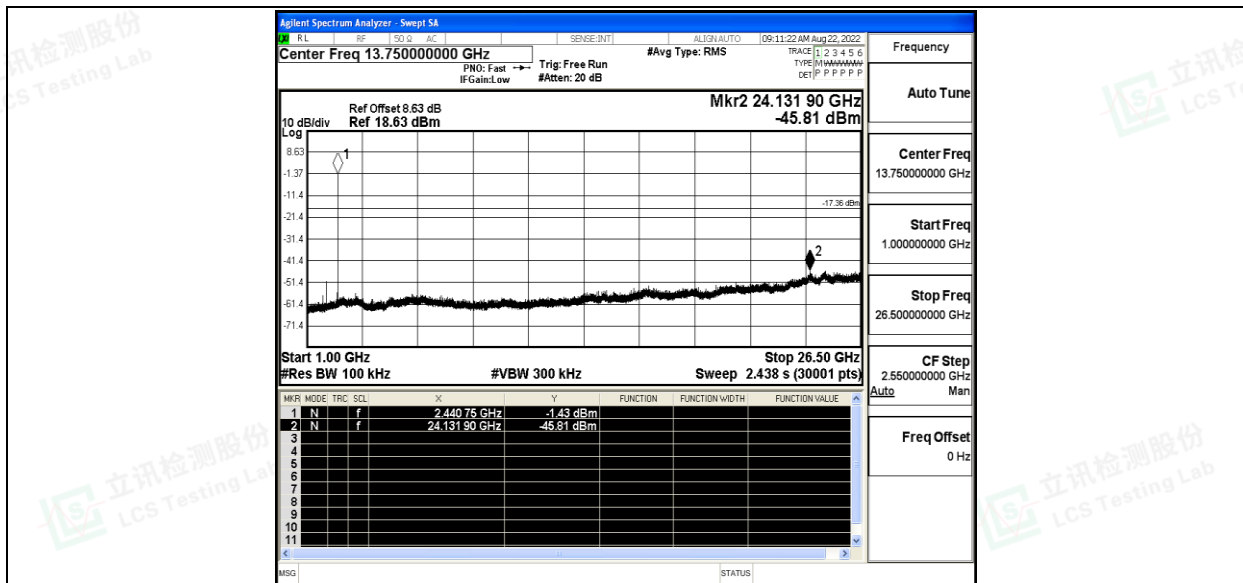


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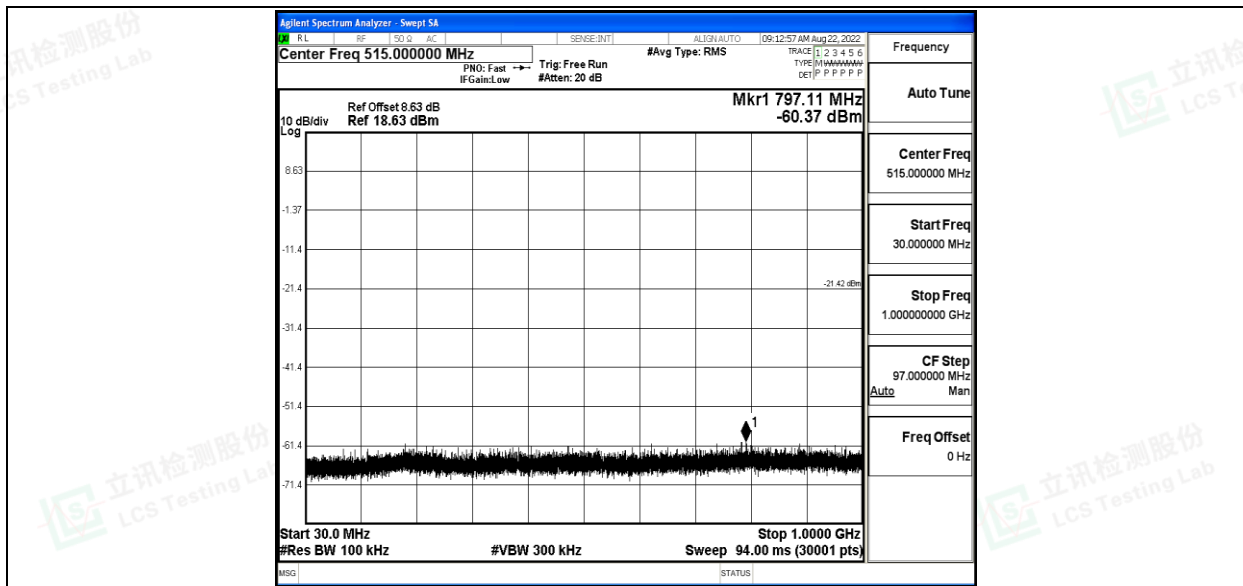


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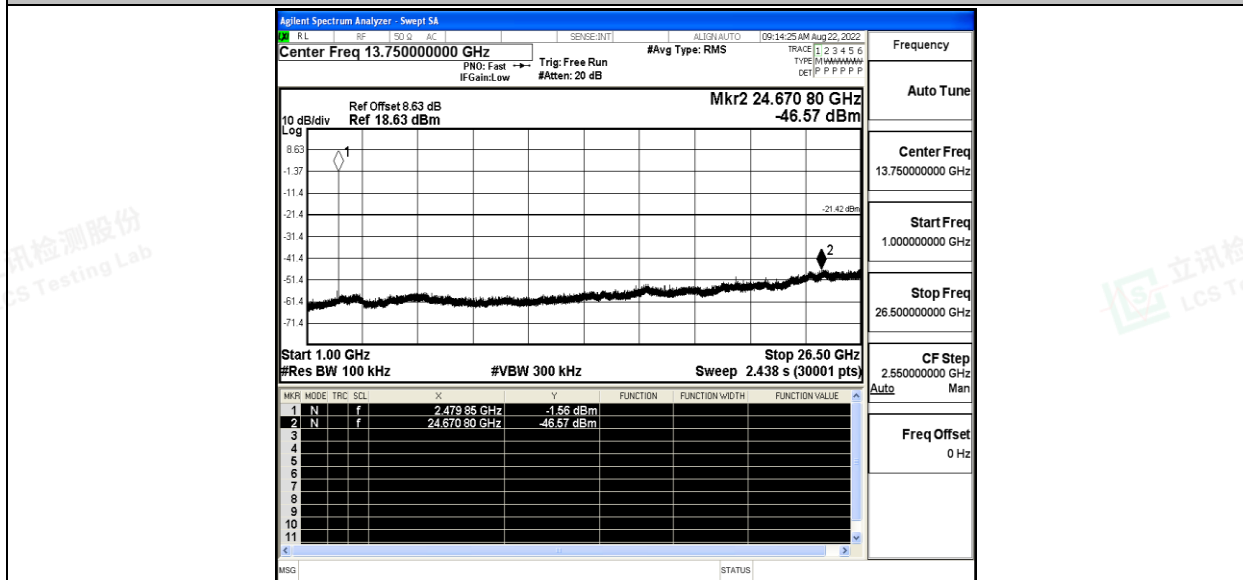
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

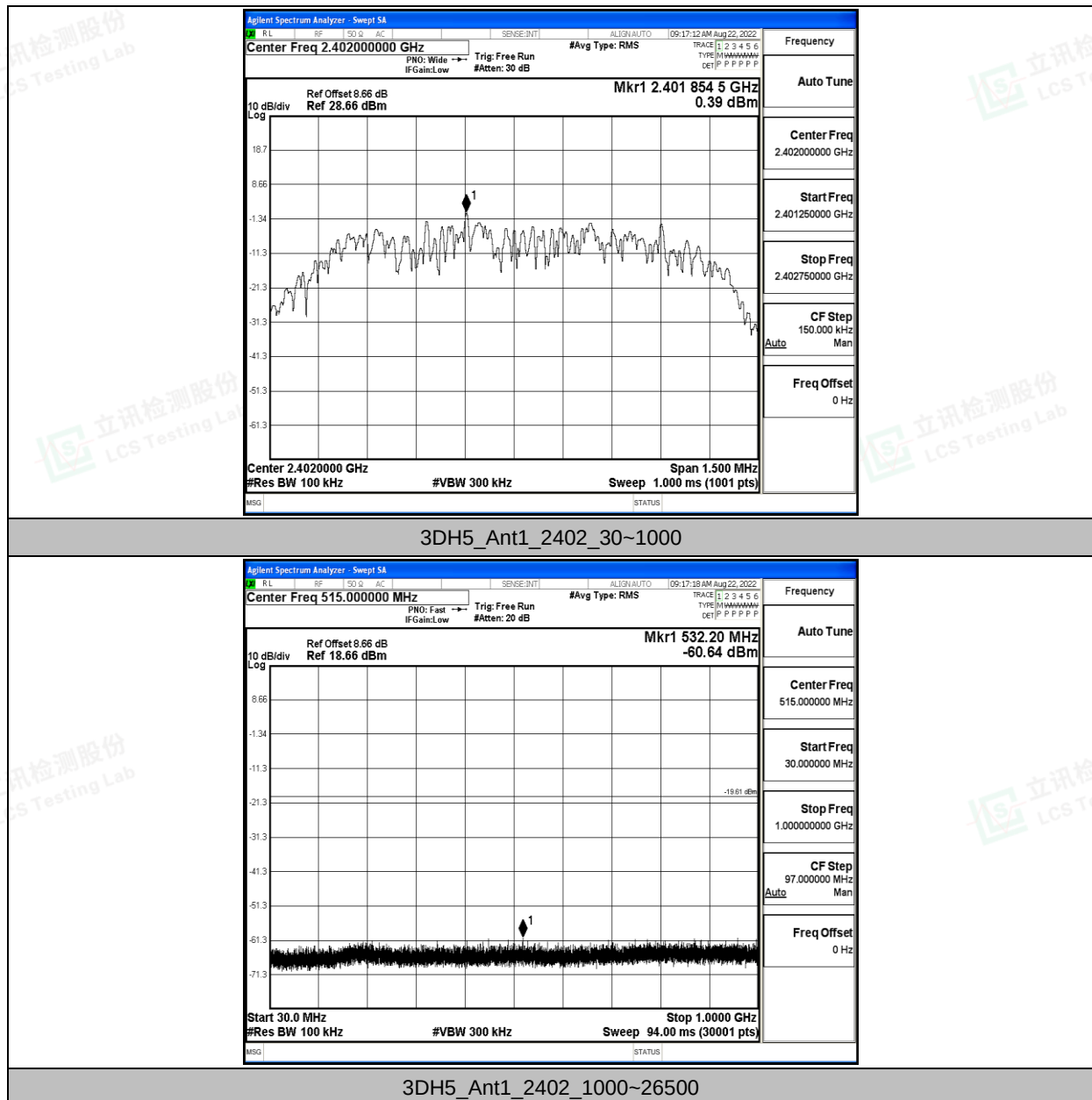


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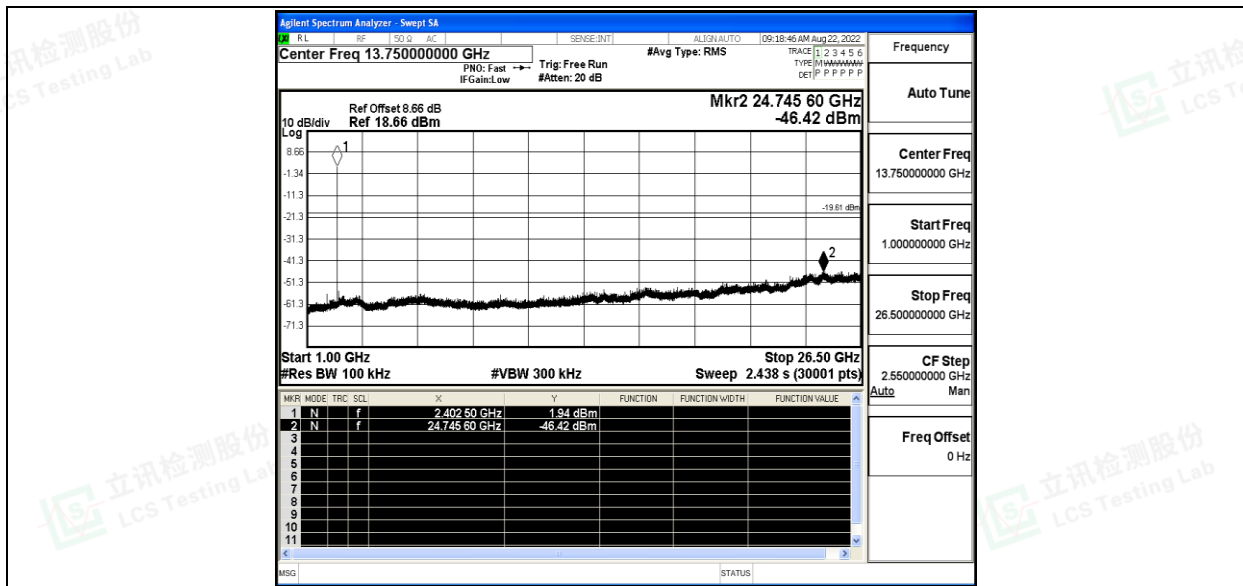


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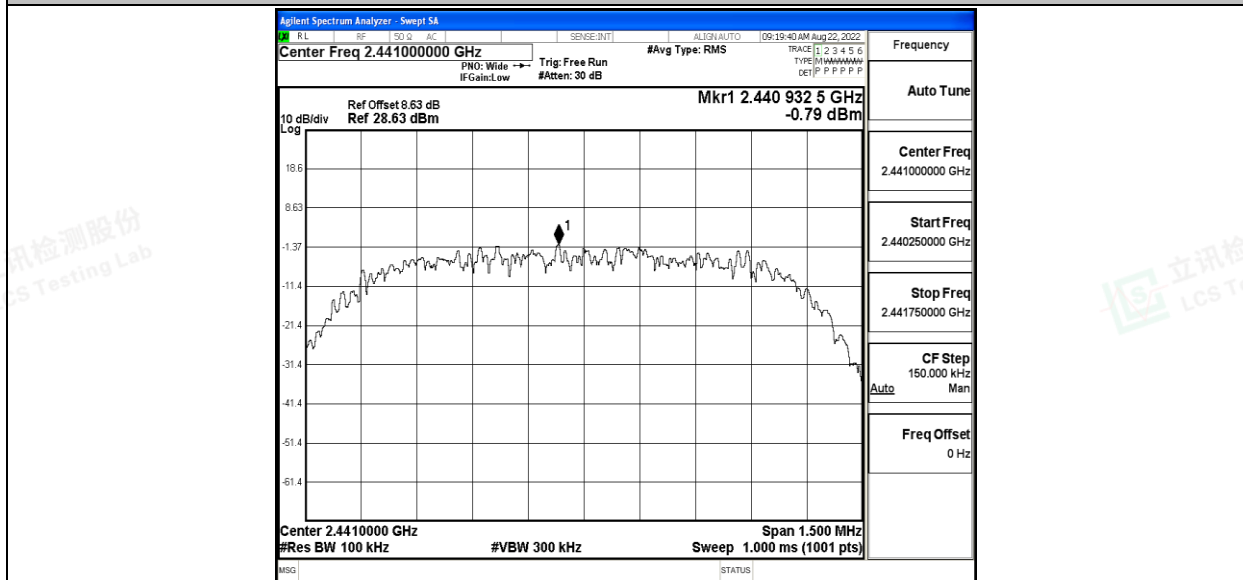
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



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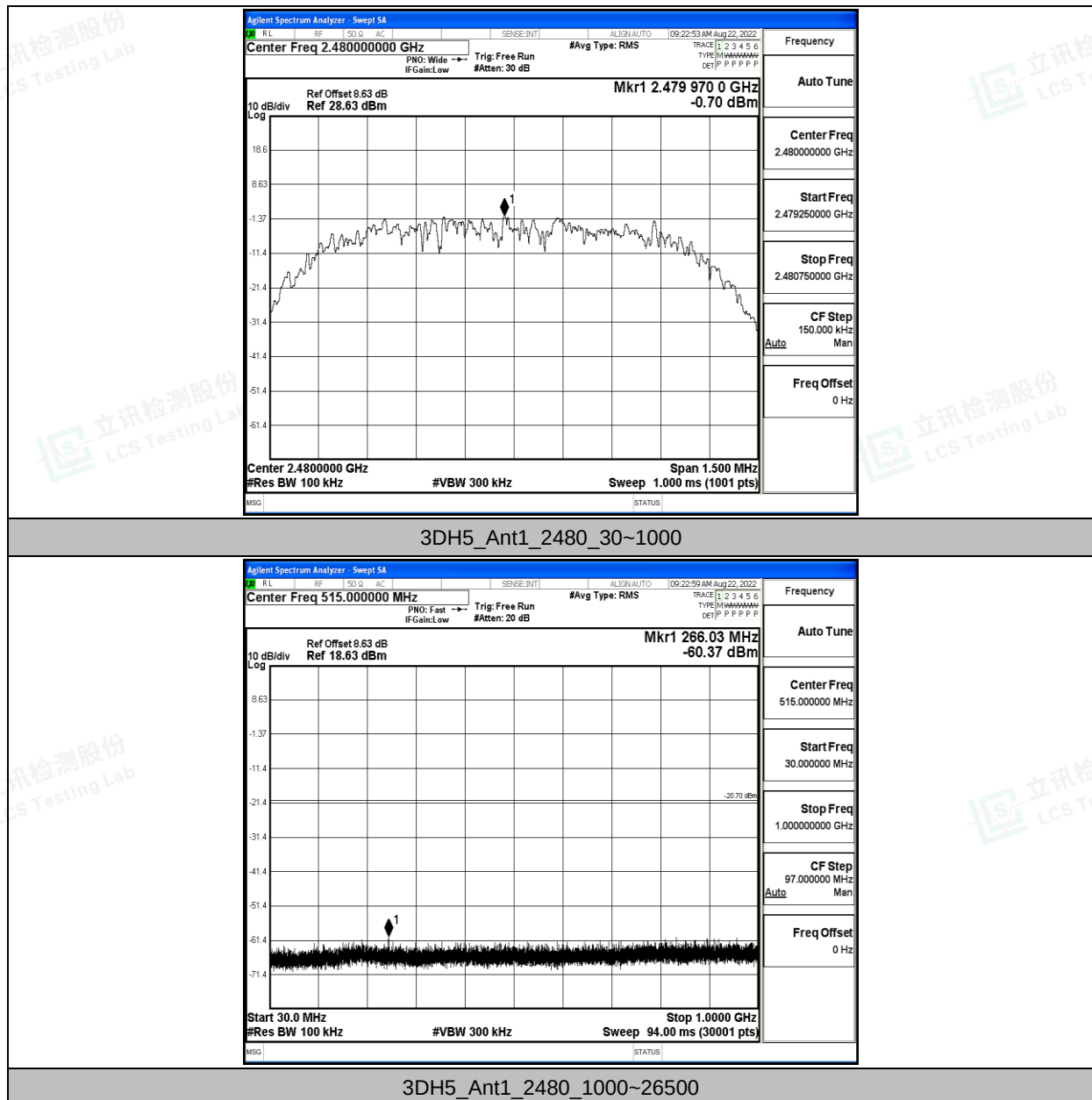


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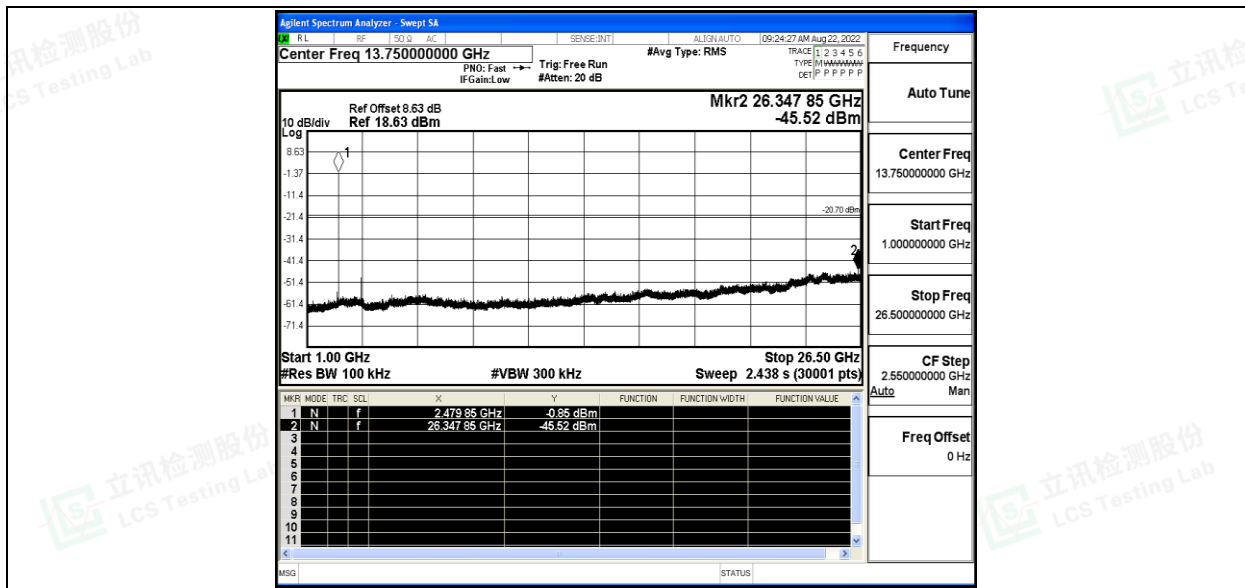


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A.8 Emissions in Restricted Bands

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	-58.29	≤-41.20	39.52	≤54	PASS
				AV	2388.305	-57.65	≤-41.20	40.16	≤54	PASS
				AV	2390.000	-57.73	≤-41.20	40.08	≤54	PASS
				Peak	2310.000	-53.49	≤-21.20	44.32	≤74	PASS
				Peak	2362.265	-48.34	≤-21.20	49.47	≤74	PASS
				Peak	2390.000	-53.25	≤-21.20	44.56	≤74	PASS
		High	2480	AV	2483.500	-54.29	≤-41.20	43.52	≤54	PASS
				AV	2483.520	-54.29	≤-41.20	43.52	≤54	PASS
				AV	2500.000	-57.33	≤-41.20	40.48	≤54	PASS
				Peak	2483.500	-49.94	≤-21.20	47.87	≤74	PASS
				Peak	2491.120	-48.47	≤-21.20	49.34	≤74	PASS
				Peak	2500.000	-53.09	≤-21.20	44.72	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-50.6	≤-21.20	47.21	≤74	PASS
				Peak	2387.465	-27.05	≤-21.20	70.76	≤74	PASS
				Peak	2390.000	-46.67	≤-21.20	51.14	≤74	PASS
		High	Hop_2480	Peak	2483.500	-47.35	≤-21.20	50.46	≤74	PASS
				Peak	2495.440	-46.87	≤-21.20	50.94	≤74	PASS
				Peak	2500.000	-49.75	≤-21.20	48.06	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.02	≤-41.20	39.79	≤54	PASS
				AV	2388.830	-57.38	≤-41.20	40.43	≤54	PASS
				AV	2390.000	-57.45	≤-41.20	40.36	≤54	PASS
				Peak	2310.000	-51.78	≤-21.20	46.03	≤74	PASS
				Peak	2383.685	-48.72	≤-21.20	49.09	≤74	PASS
				Peak	2390.000	-52.01	≤-21.20	45.80	≤74	PASS
		High	2480	AV	2483.500	-53.54	≤-41.20	44.27	≤54	PASS
				AV	2483.520	-53.54	≤-41.20	44.27	≤54	PASS
				AV	2500.000	-57.15	≤-41.20	40.66	≤54	PASS
				Peak	2483.500	-50.9	≤-21.20	46.91	≤74	PASS
				Peak	2492.240	-47.54	≤-21.20	50.27	≤74	PASS
				Peak	2500.000	-50.55	≤-21.20	47.26	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-50.37	≤-21.20	47.44	≤74	PASS
				Peak	2368.880	-47.39	≤-21.20	50.42	≤74	PASS
				Peak	2390.000	-49	≤-21.20	48.81	≤74	PASS
		High	Hop_2480	Peak	2483.500	-48.13	≤-21.20	49.68	≤74	PASS
				Peak	2484.880	-37.54	≤-21.20	60.27	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2500.000	-49.07	≤ -21.20	48.74	≤ 74	PASS
				AV	2310.000	-58.1	≤ -41.20	39.71	≤ 54	PASS
				AV	2389.880	-57.38	≤ -41.20	40.43	≤ 54	PASS
				AV	2390.000	-57.55	≤ -41.20	40.26	≤ 54	PASS
				Peak	2310.000	-52.92	≤ -21.20	44.89	≤ 74	PASS
				Peak	2386.835	-48.77	≤ -21.20	49.04	≤ 74	PASS
				Peak	2390.000	-53.79	≤ -21.20	44.02	≤ 74	PASS
		High	2480	AV	2483.500	-53.31	≤ -41.20	44.50	≤ 54	PASS
				AV	2483.520	-53.31	≤ -41.20	44.50	≤ 54	PASS
				AV	2500.000	-57.14	≤ -41.20	40.67	≤ 54	PASS
				Peak	2483.500	-49.7	≤ -21.20	48.11	≤ 74	PASS
				Peak	2484.160	-35.09	≤ -21.20	62.72	≤ 74	PASS
				Peak	2500.000	-52.25	≤ -21.20	45.56	≤ 74	PASS
		Low	Hop_2402	Peak	2310.000	-49.71	≤ -21.20	48.10	≤ 74	PASS
				Peak	2382.110	-46.53	≤ -21.20	51.28	≤ 74	PASS
				Peak	2390.000	-48.02	≤ -21.20	49.79	≤ 74	PASS
		High	Hop_2480	Peak	2483.500	-47.8	≤ -21.20	50.01	≤ 74	PASS
				Peak	2488.960	-44.35	≤ -21.20	53.46	≤ 74	PASS
				Peak	2500.000	-49.08	≤ -21.20	48.73	≤ 74	PASS

Note:

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





Test Graphs

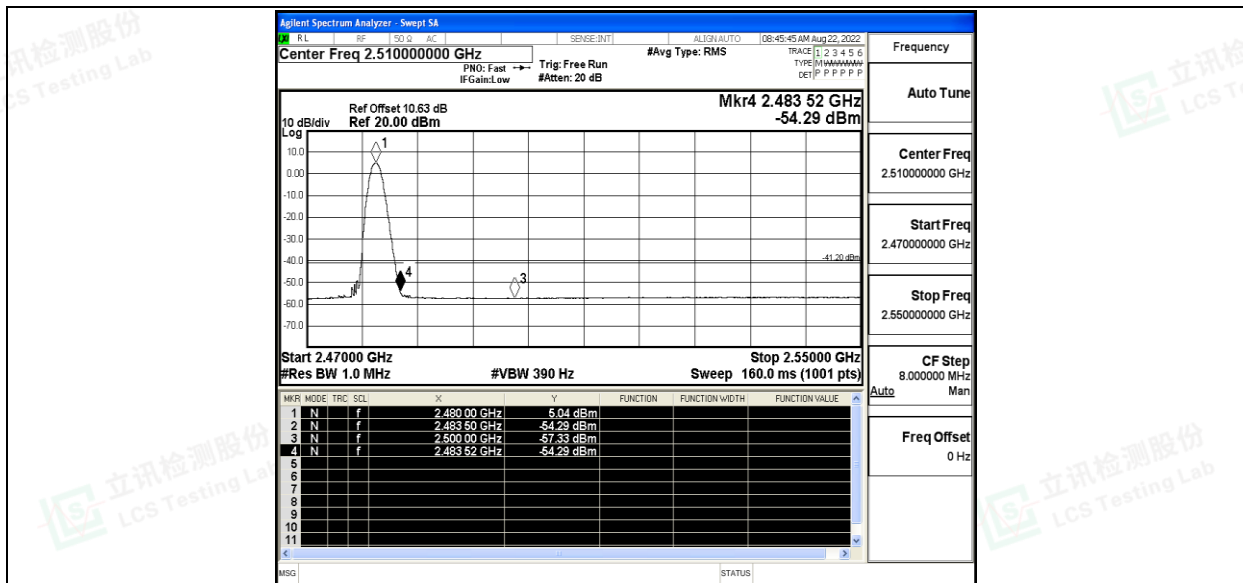


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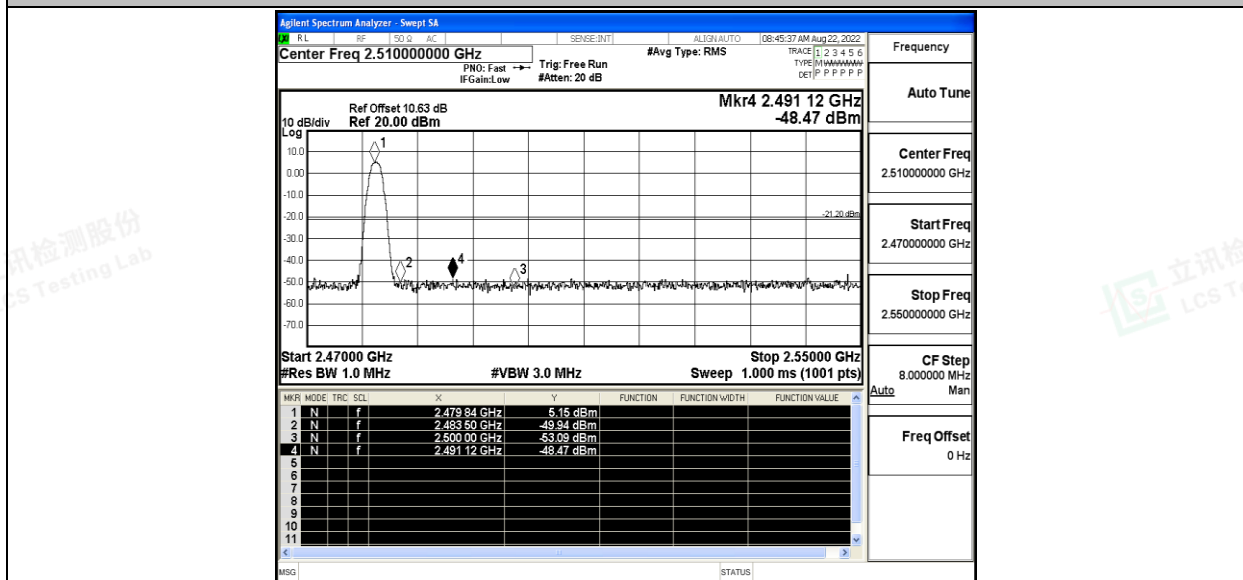
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

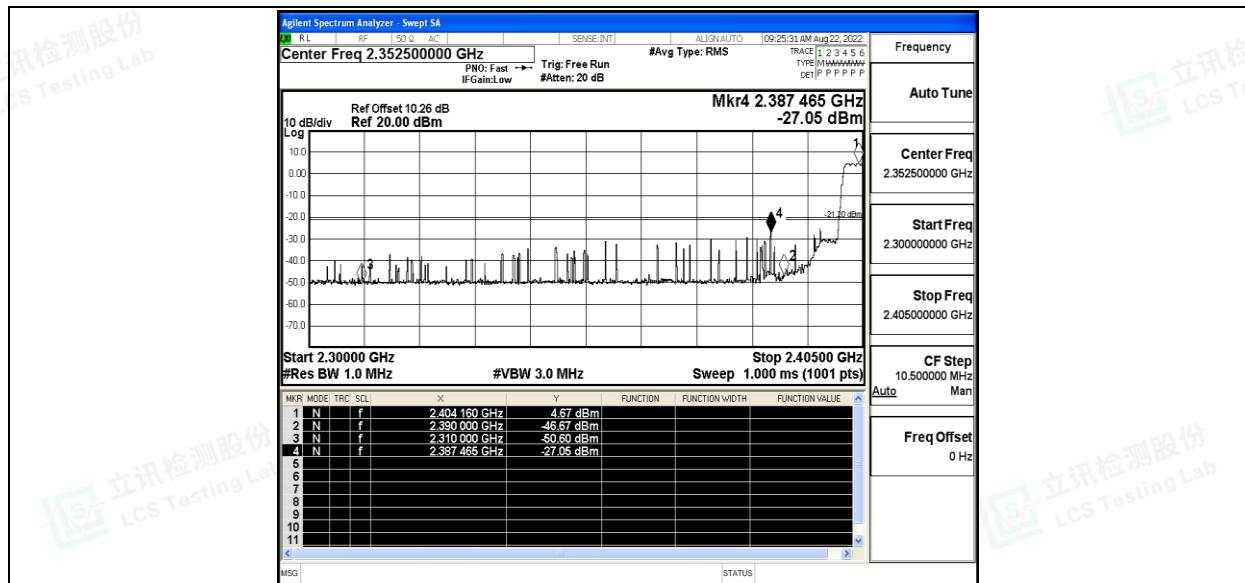


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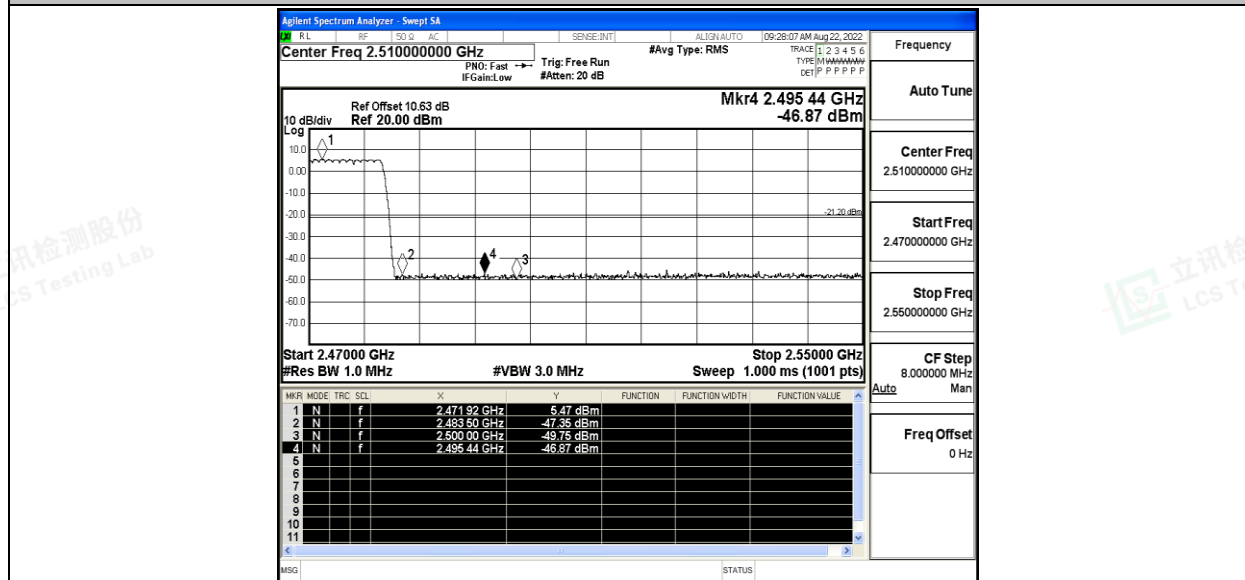
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

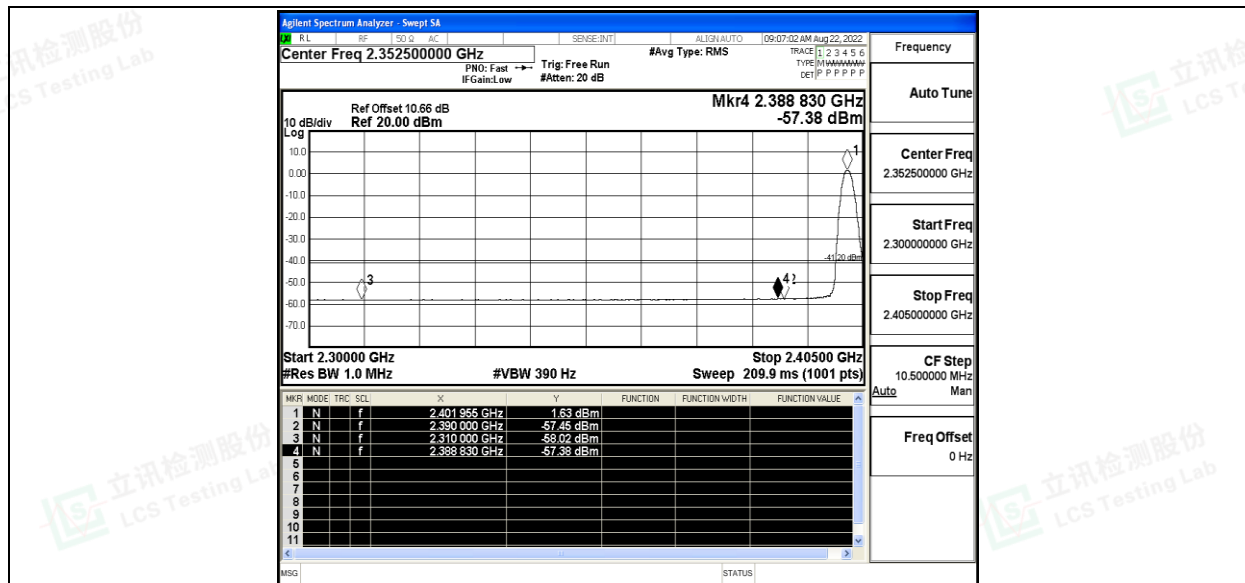


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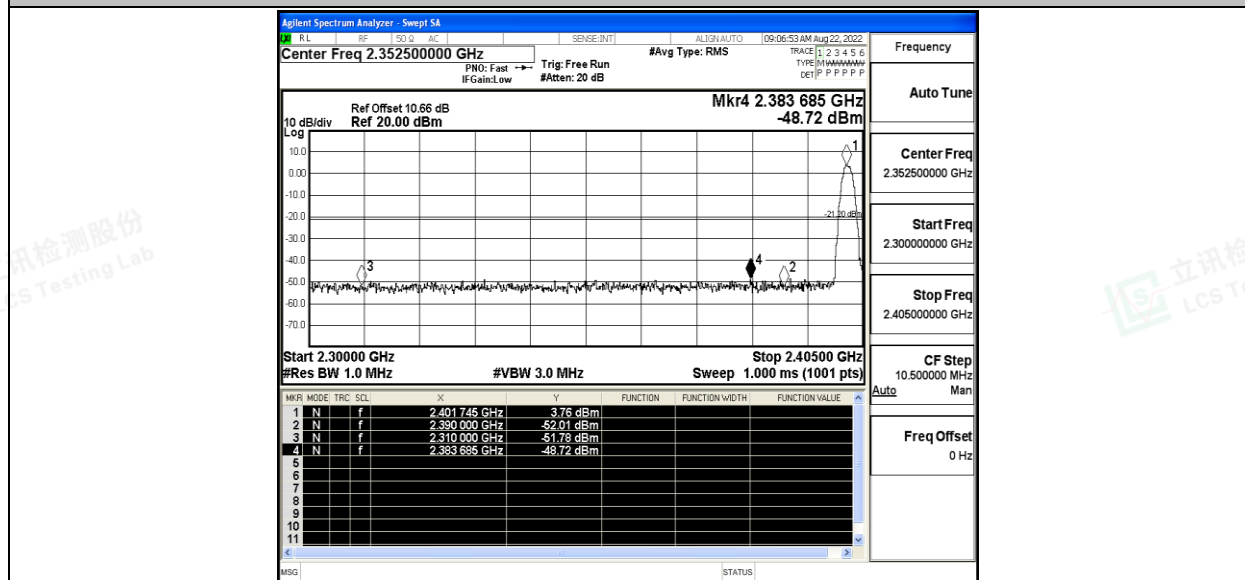
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

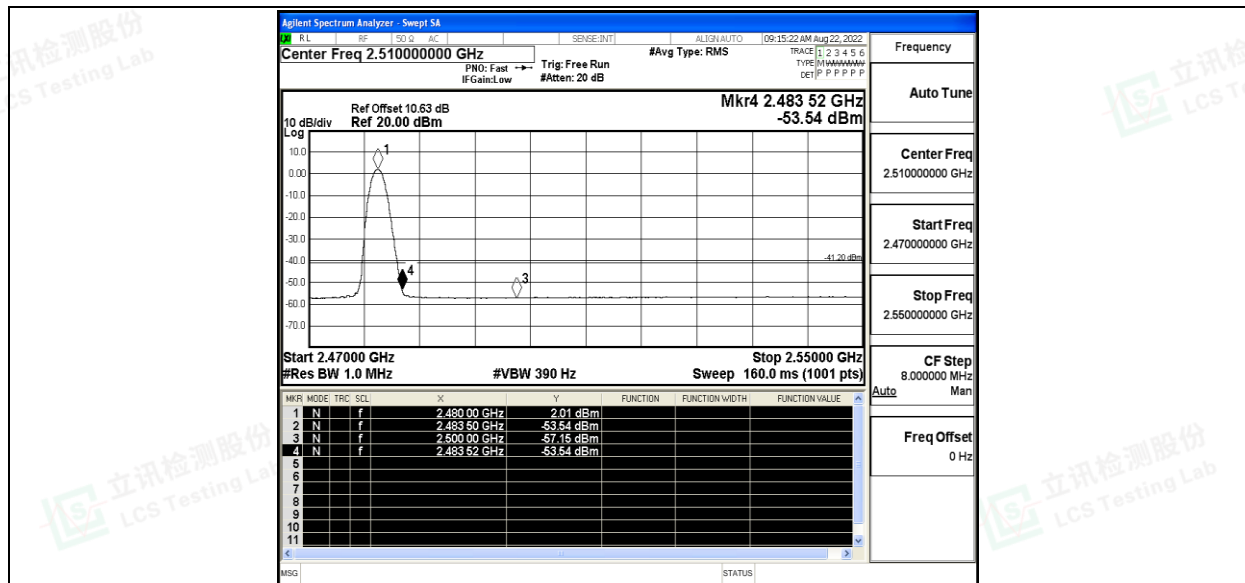


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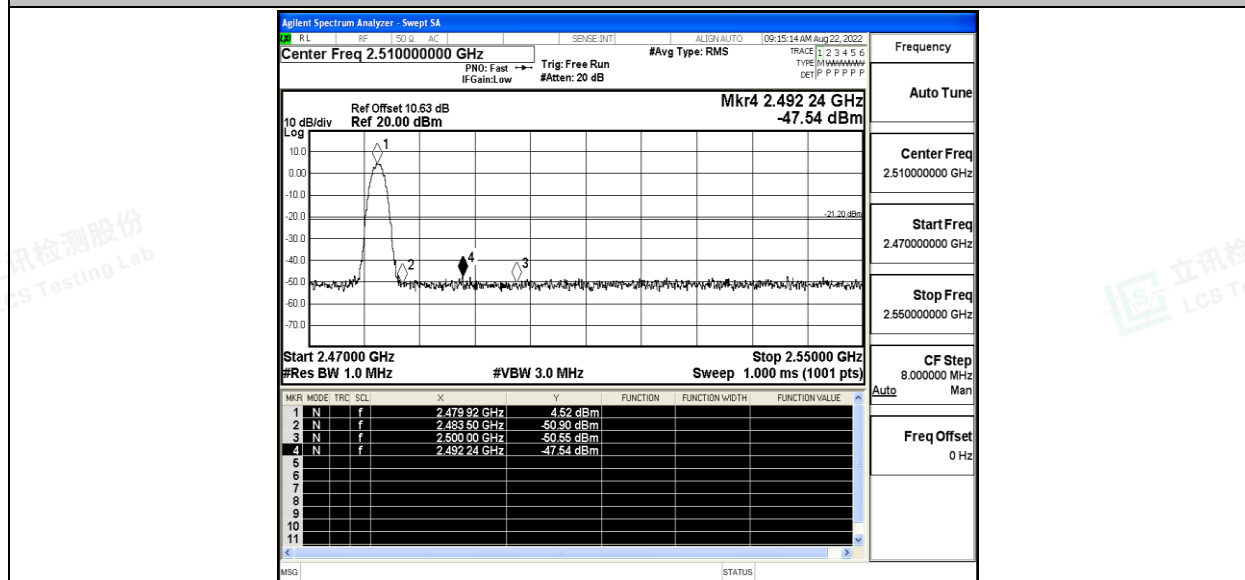
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

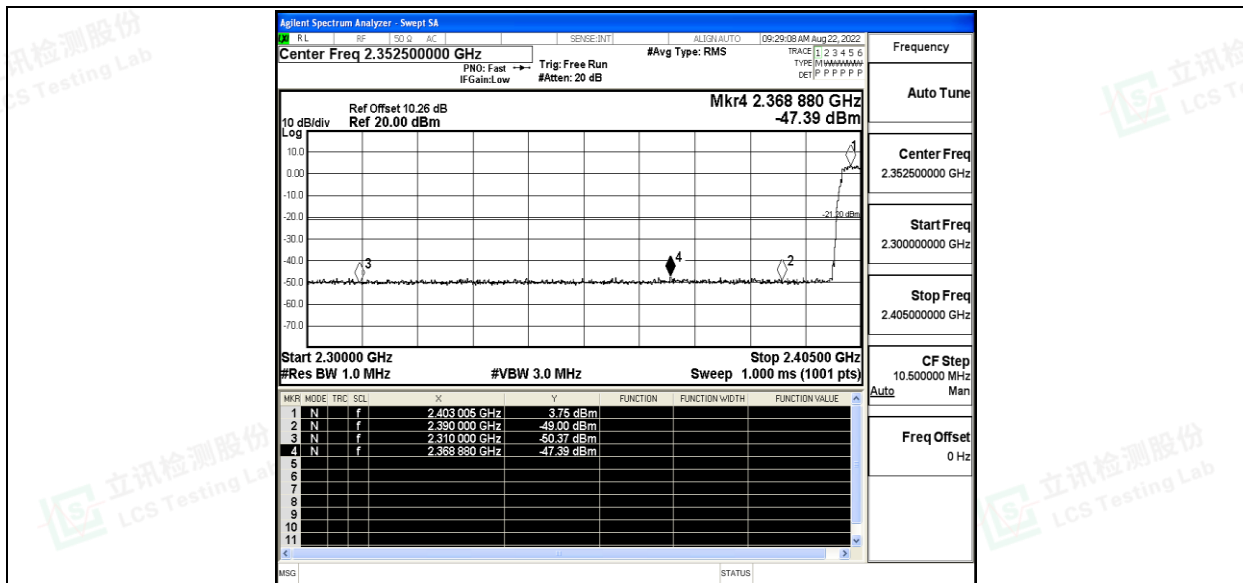


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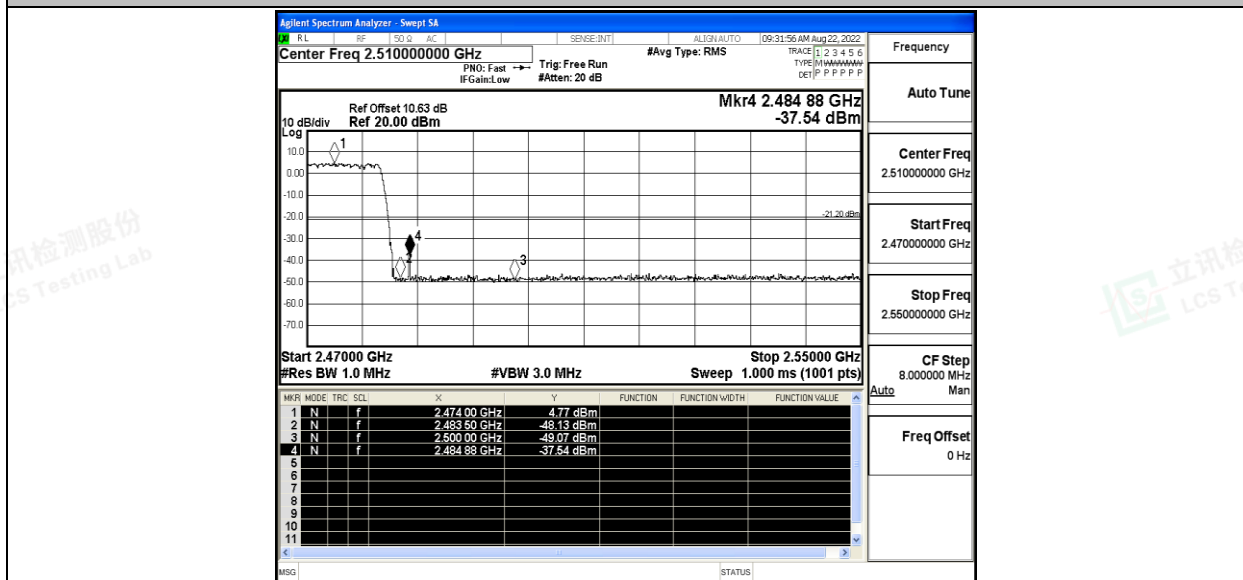
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

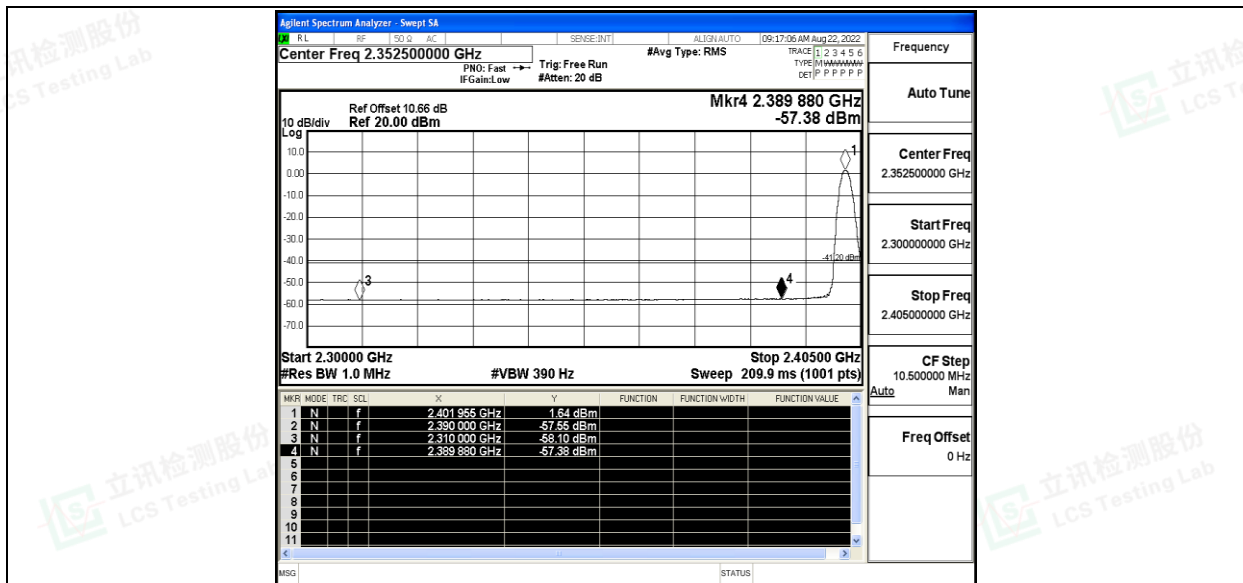


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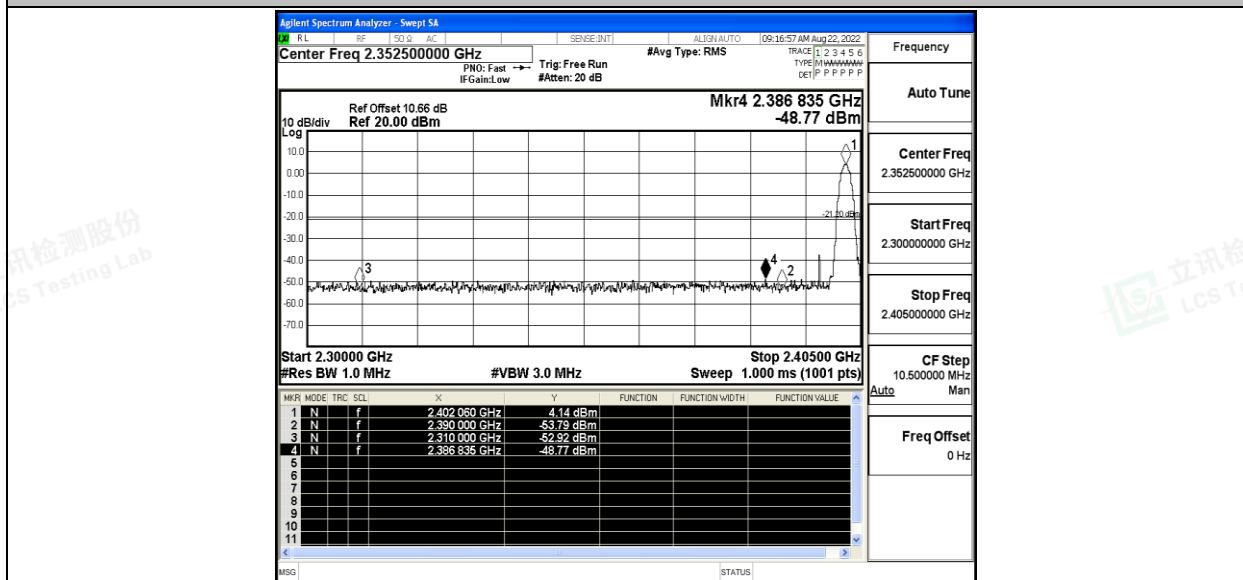
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

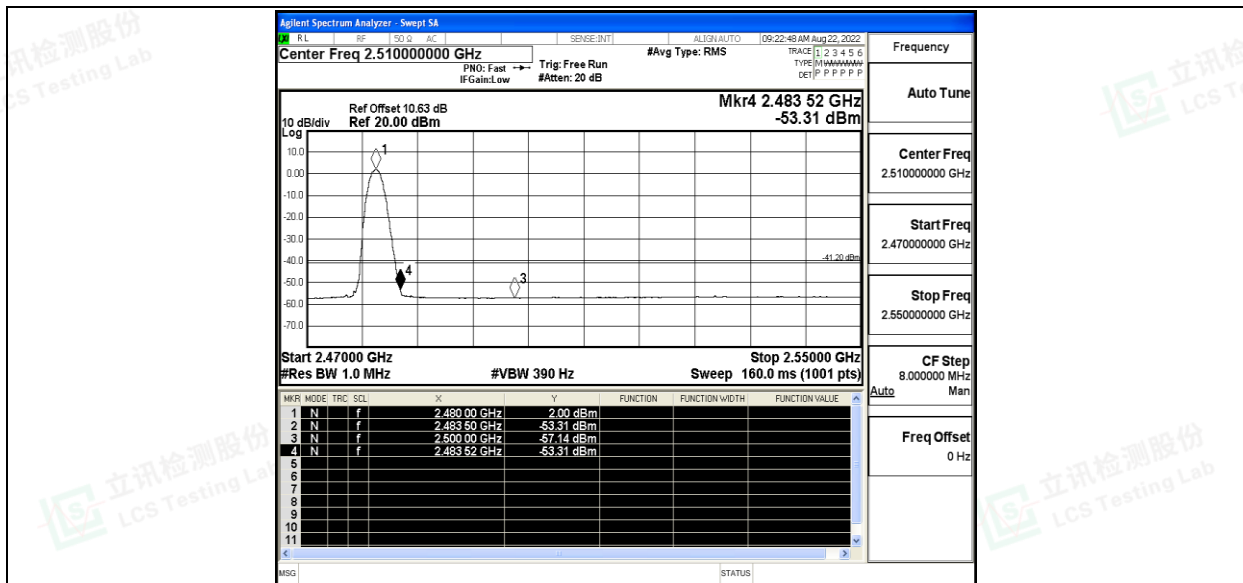


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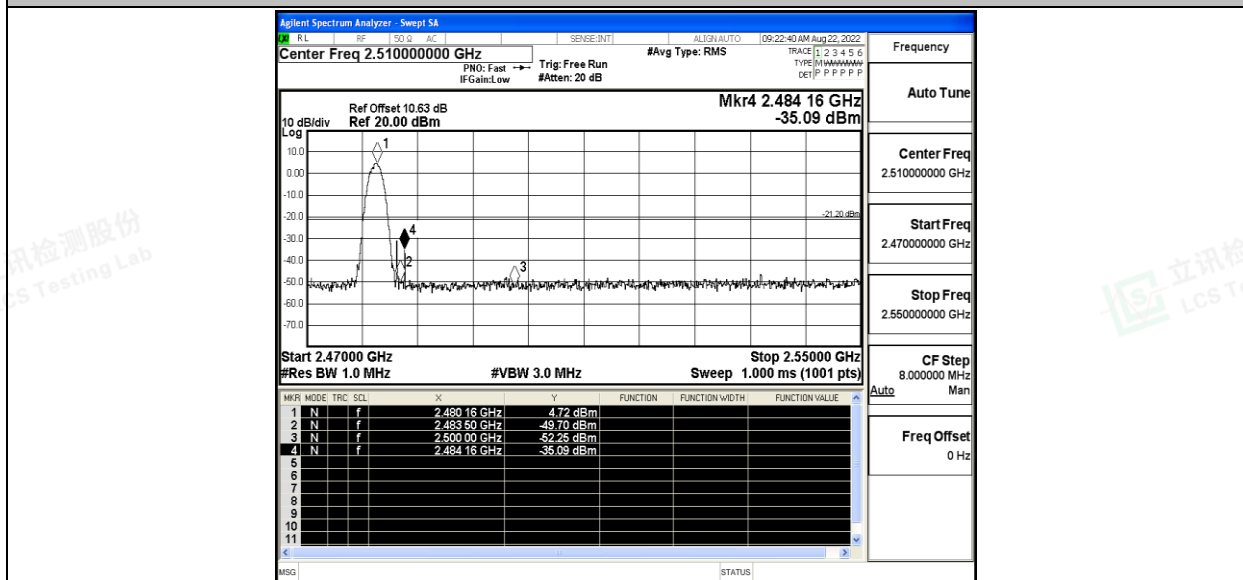
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak



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