



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Speaker

Test Model: SRS2B

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jack Cheng
Supervised by:	Li huan





A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.023	2401.463	2402.486	---	---
		2441	1.020	2440.472	2441.492	---	---
		2480	1.041	2479.454	2480.495	---	---
2DH5	Ant1	2402	1.287	2401.355	2402.642	---	---
		2441	1.290	2440.355	2441.645	---	---
		2480	1.320	2479.328	2480.648	---	---
3DH5	Ant1	2402	1.308	2401.337	2402.645	---	---
		2441	1.299	2440.340	2441.639	---	---
		2480	1.308	2479.337	2480.645	---	---



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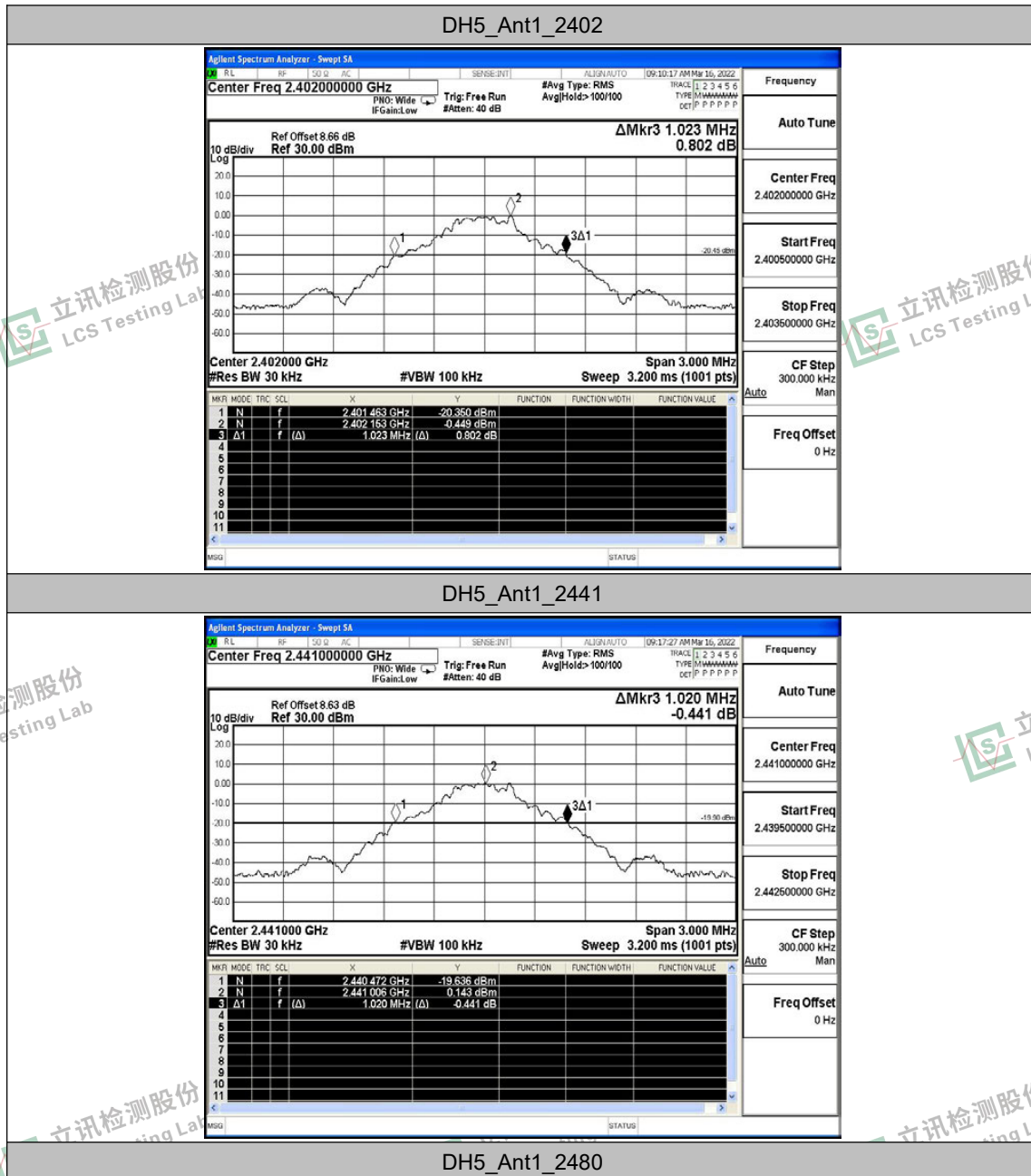
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Test Graphs

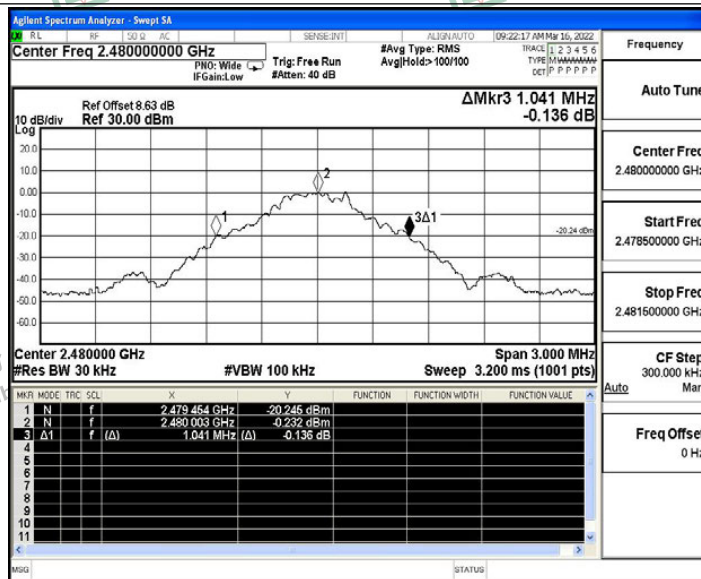


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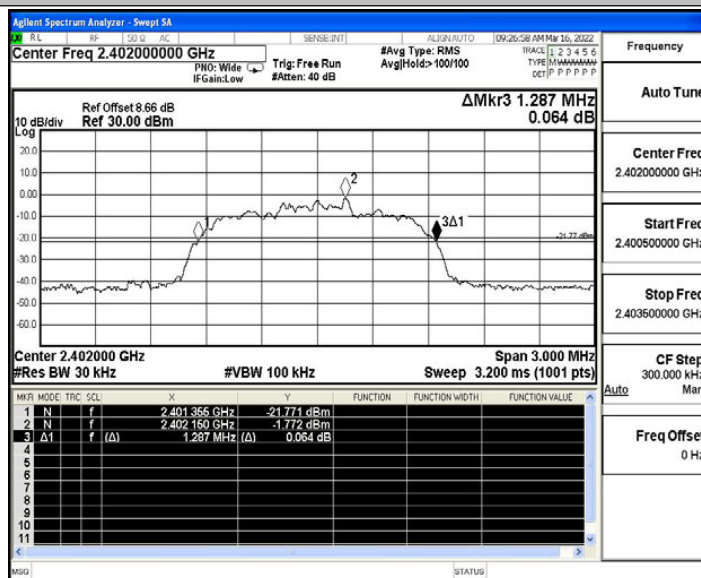
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2DH5_Ant1_2402



2DH5_Ant1_2441

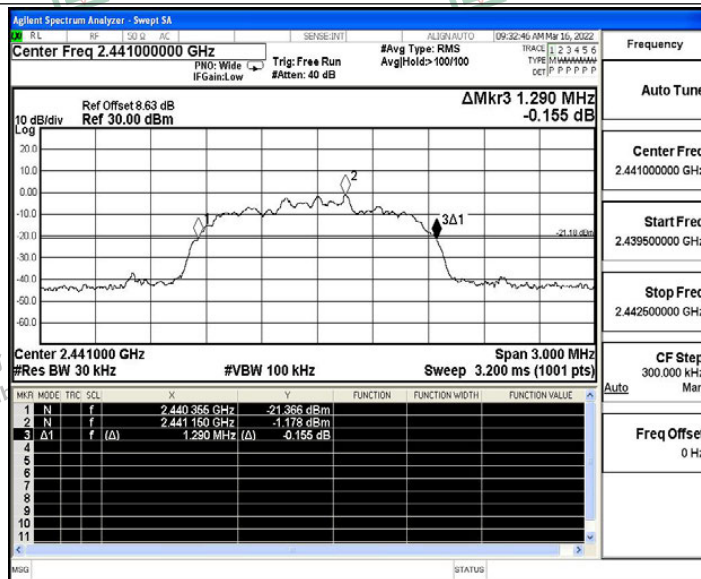


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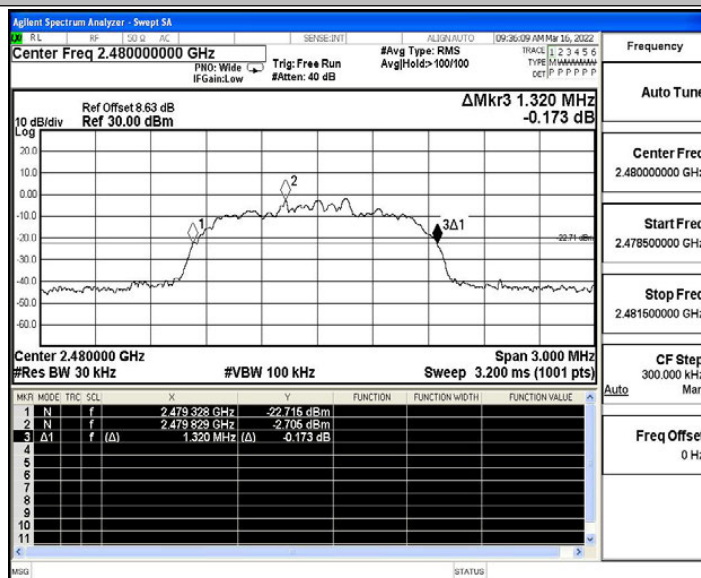
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2DH5_Ant1_2480



3DH5_Ant1_2402

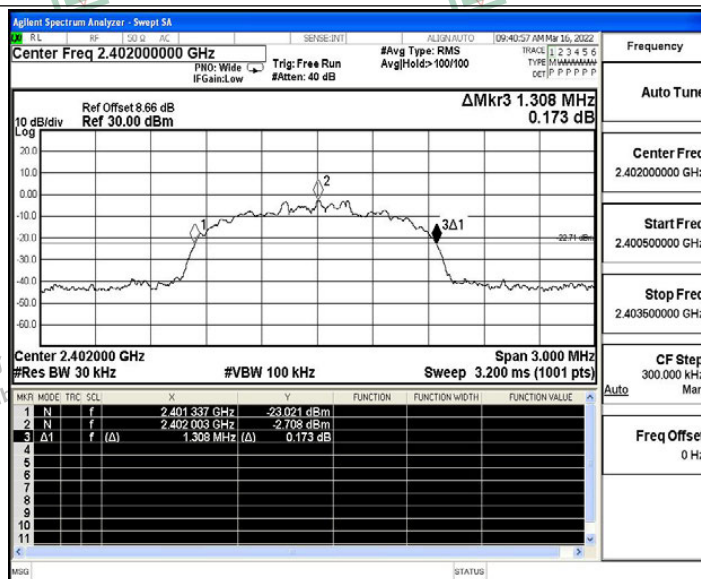


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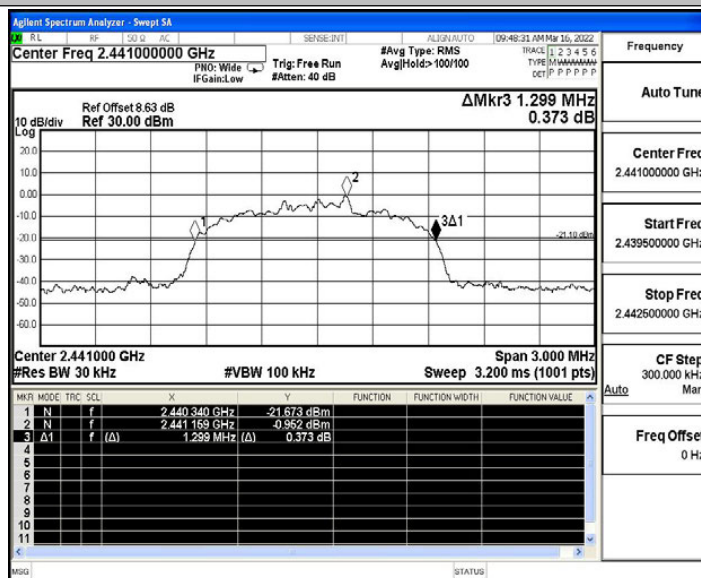
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3DH5_Ant1_2441



3DH5_Ant1_2480

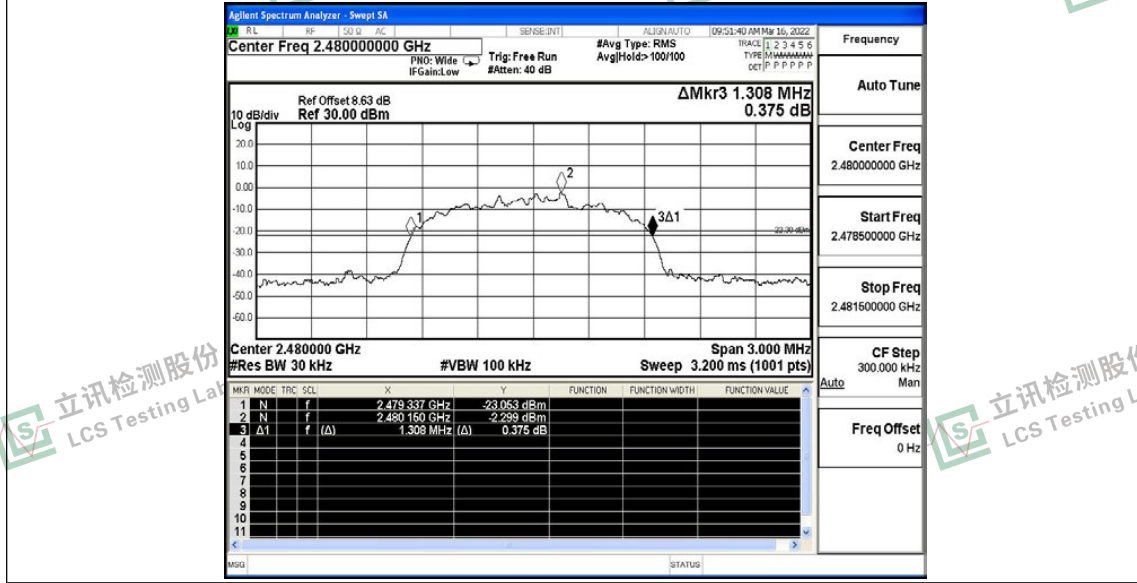


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.57	≤20.97	PASS
		2441	3.07	≤20.97	PASS
		2480	2.75	≤20.97	PASS
2DH5	Ant1	2402	2.3	≤20.97	PASS
		2441	2.86	≤20.97	PASS
		2480	2.61	≤20.97	PASS
3DH5	Ant1	2402	2.41	≤20.97	PASS
		2441	2.9	≤20.97	PASS
		2480	2.62	≤20.97	PASS



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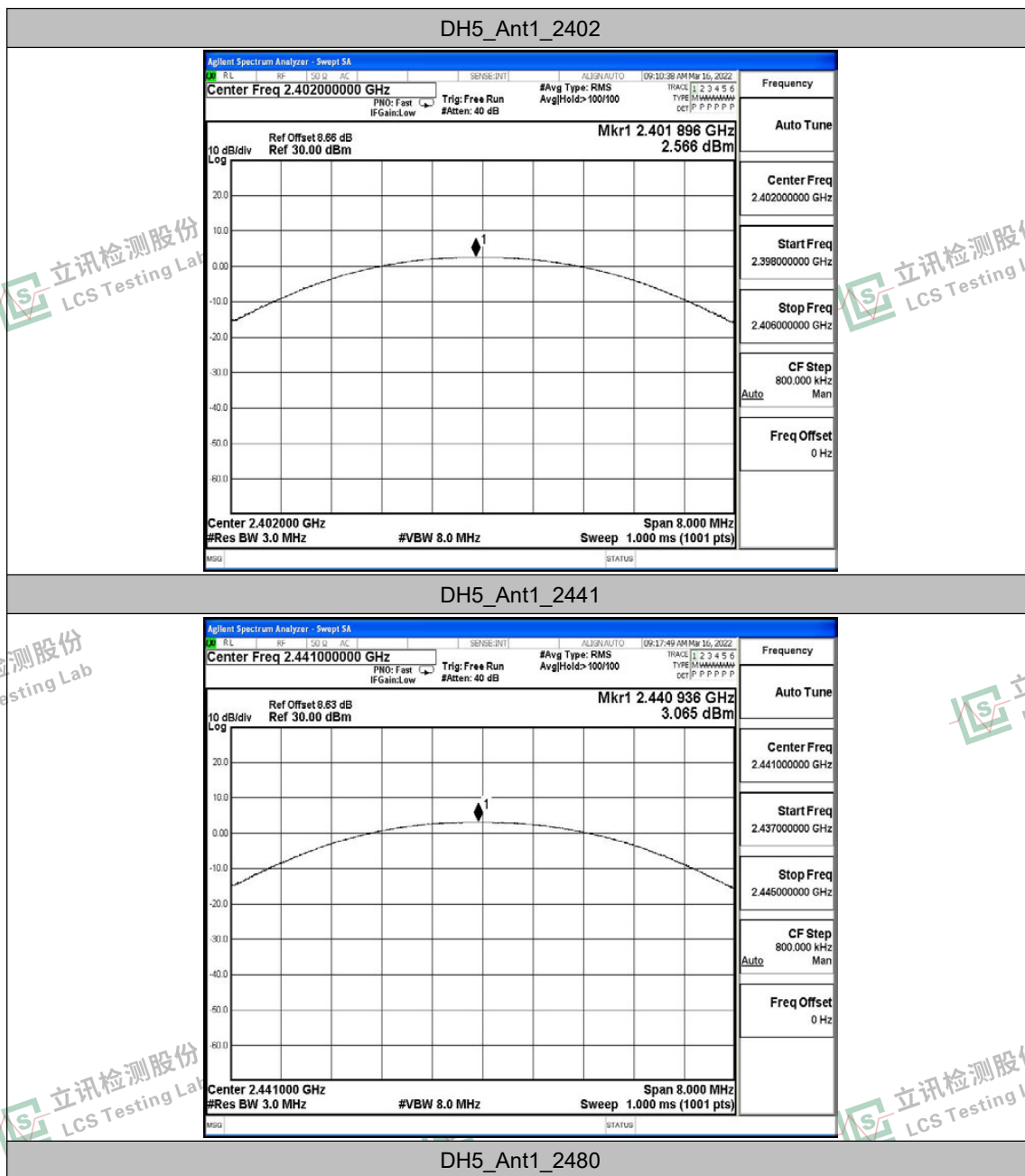
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Test Graphs

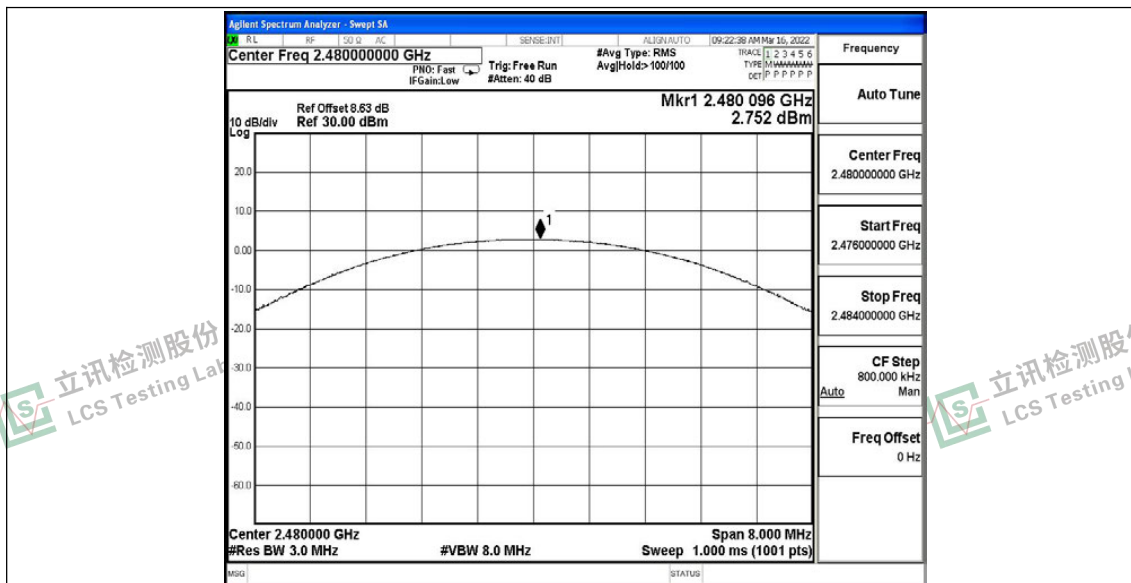


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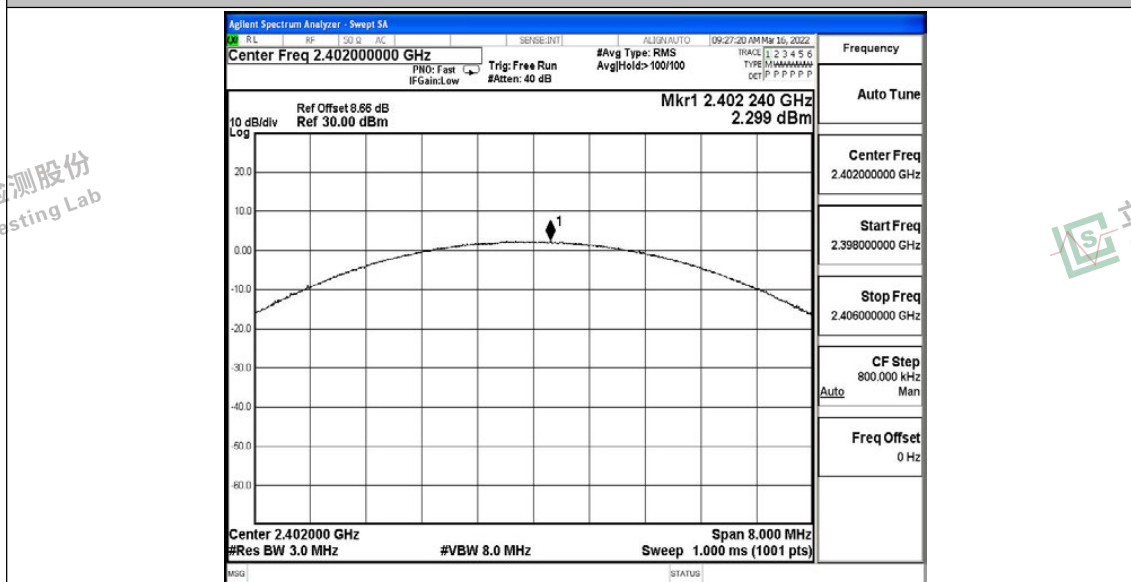
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2DH5_Ant1_2402



2DH5_Ant1_2441

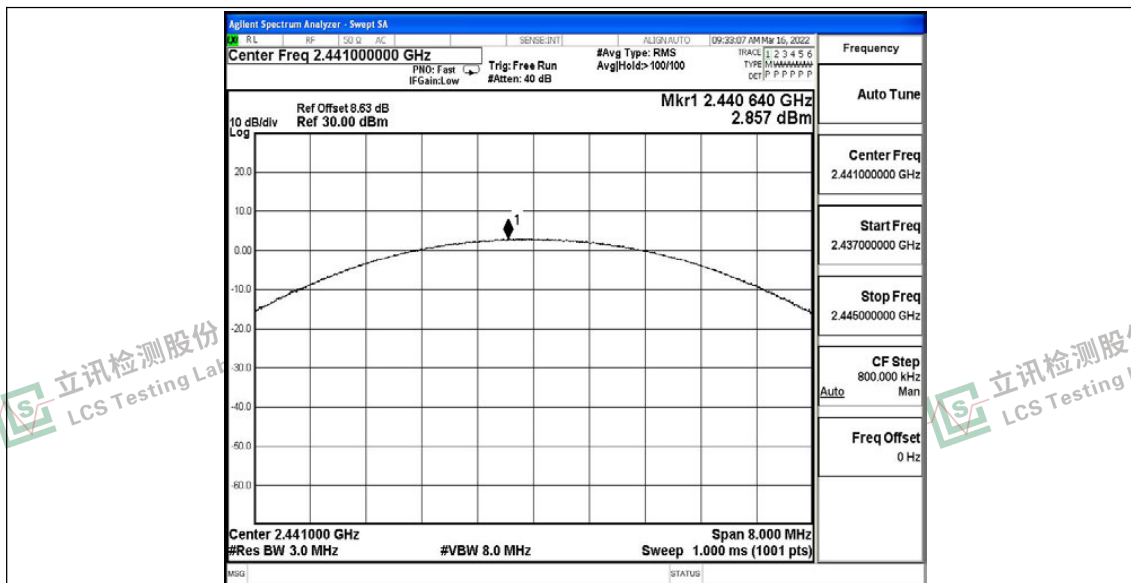


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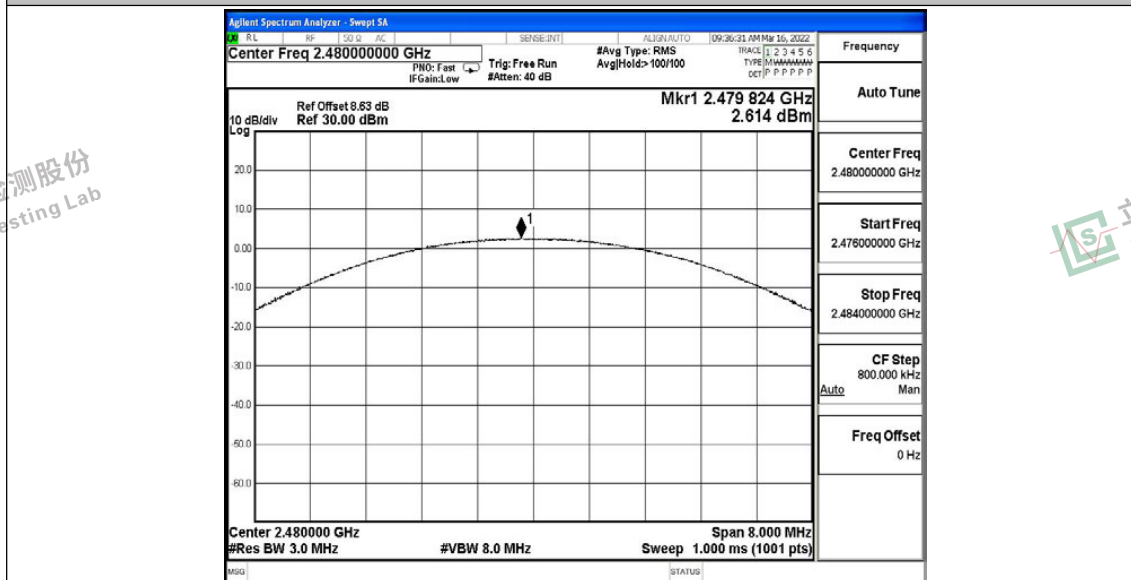
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2DH5_Ant1_2480



3DH5_Ant1_2402

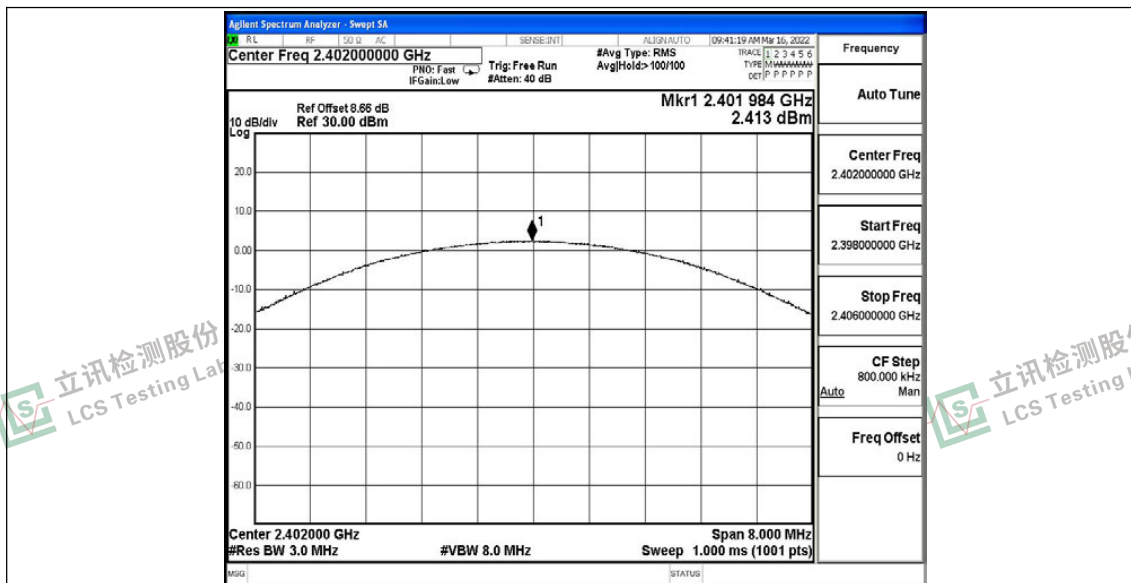


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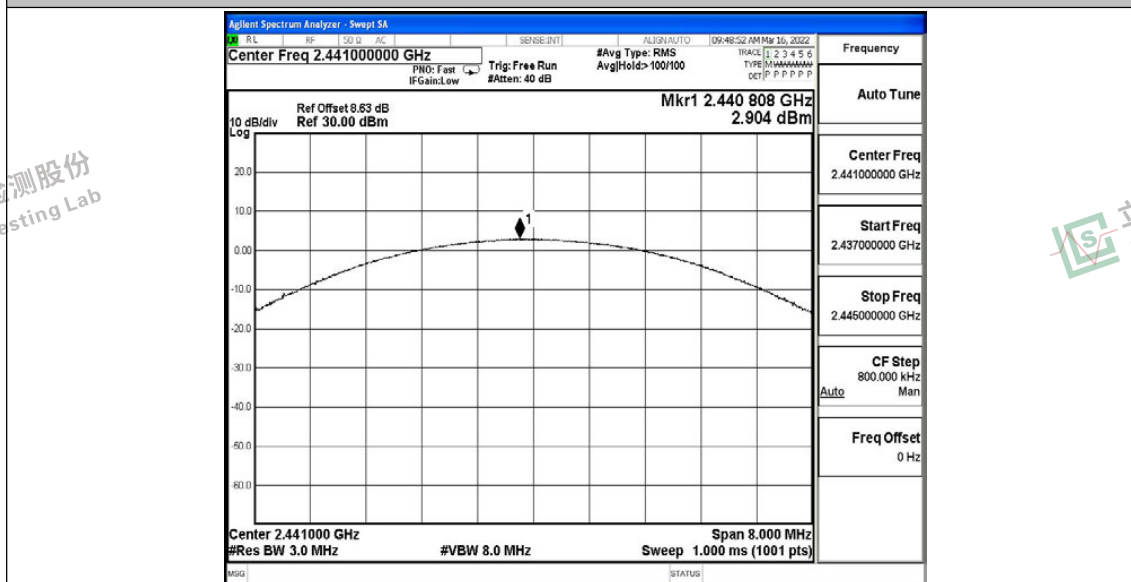
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3DH5_Ant1_2441



3DH5_Ant1_2480

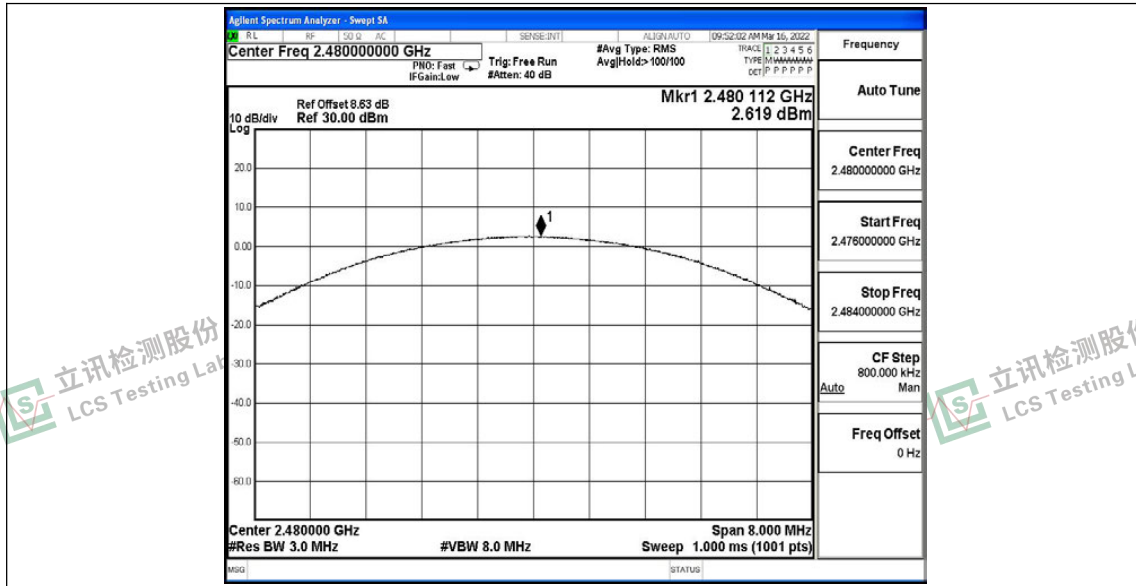


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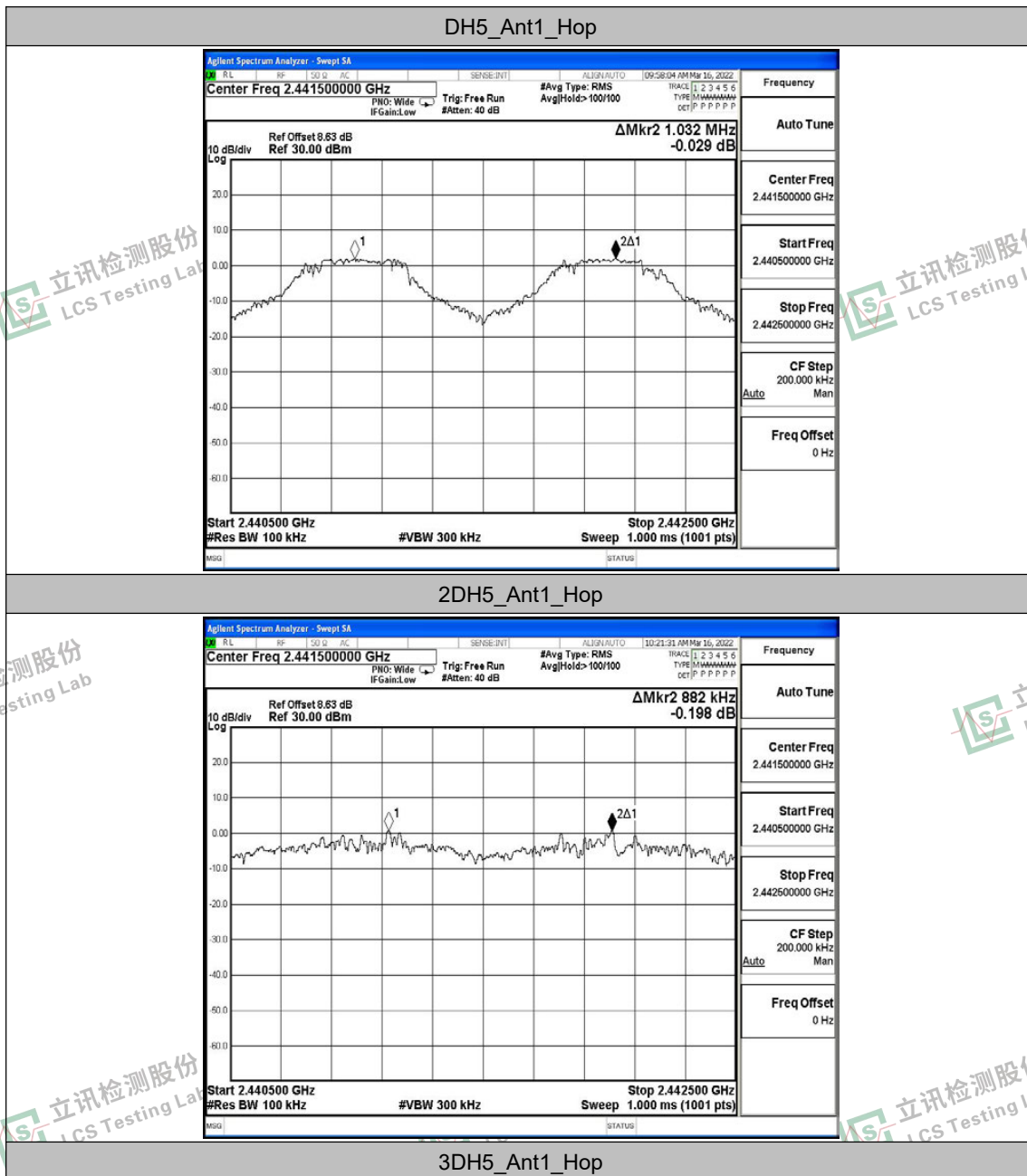
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.032	≥ 0.694	PASS
2DH5	Ant1	Hop	0.882	≥ 0.880	PASS
3DH5	Ant1	Hop	1.234	≥ 0.872	PASS



Test Graphs

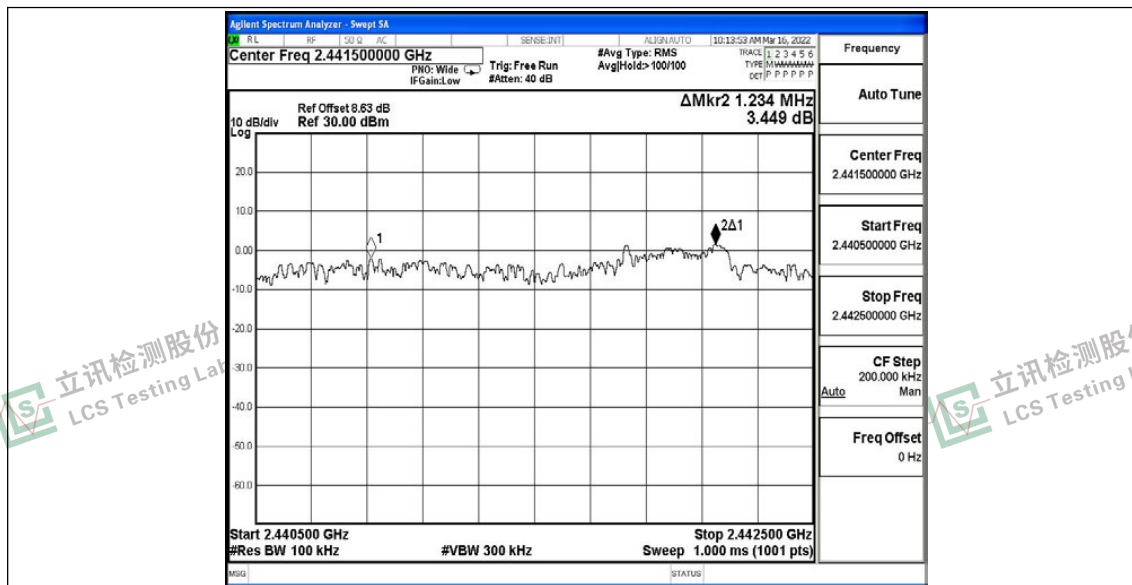


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A.4 Time of occupancy

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	2.88	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS

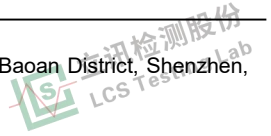


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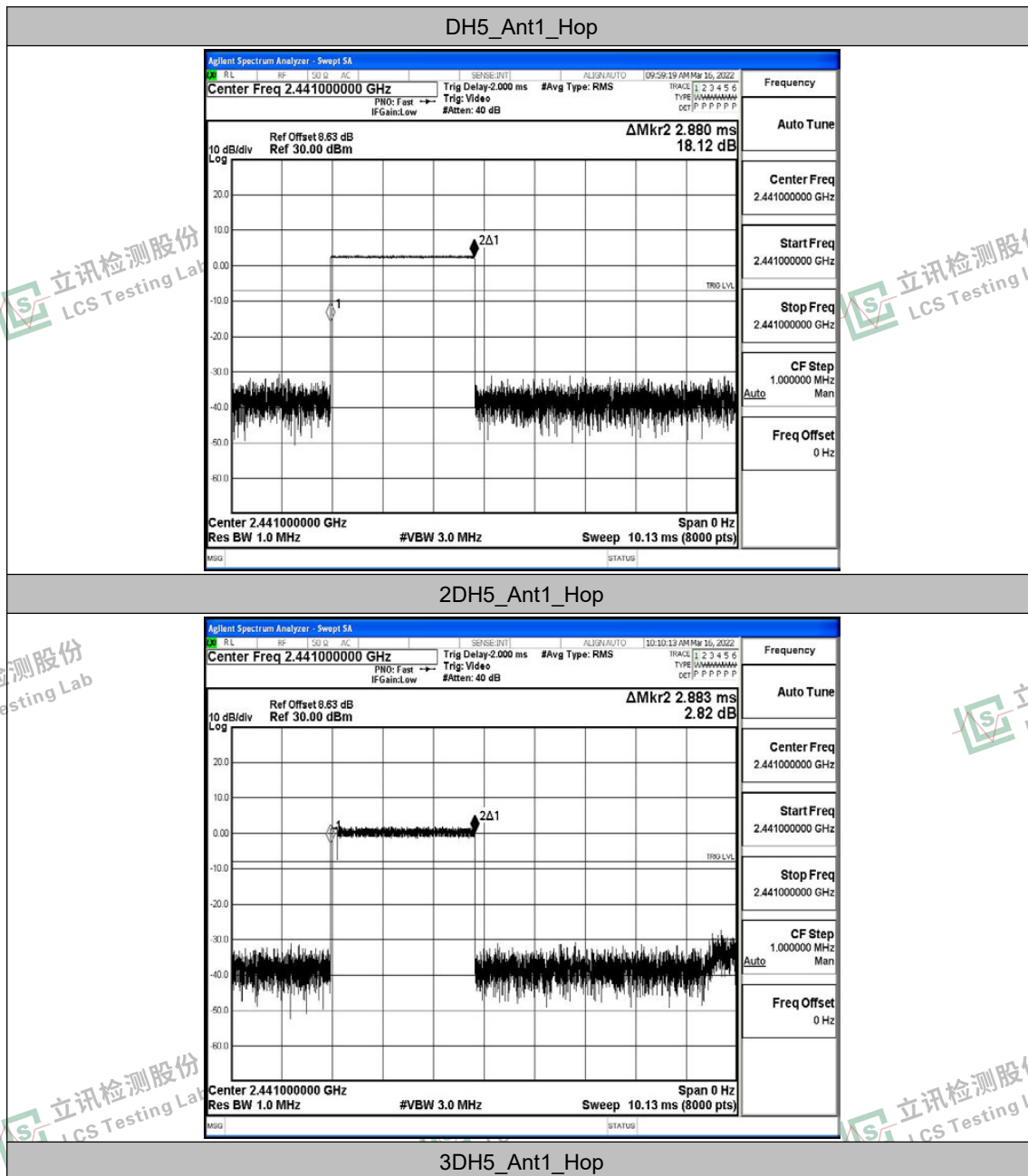
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Test Graphs

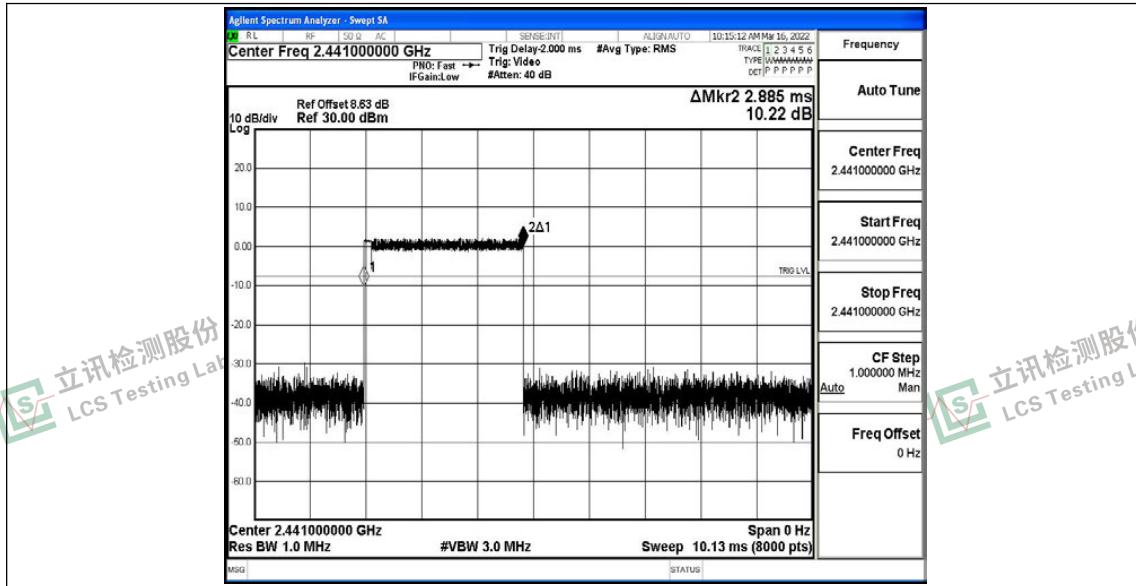


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A.5 Number of hopping channels

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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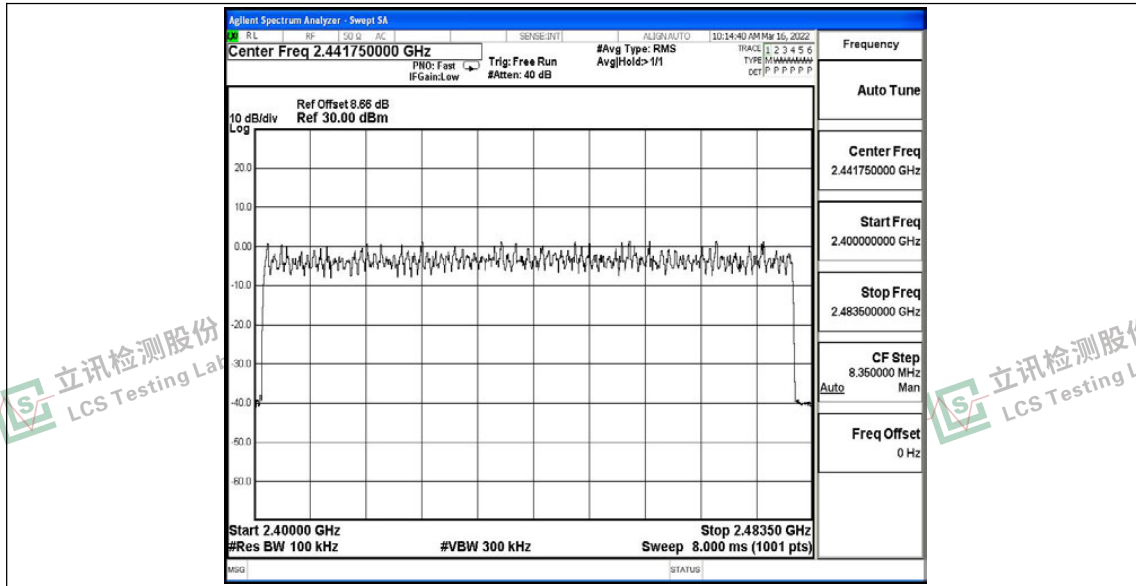
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Test Graphs





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A.6 Band edge measurements

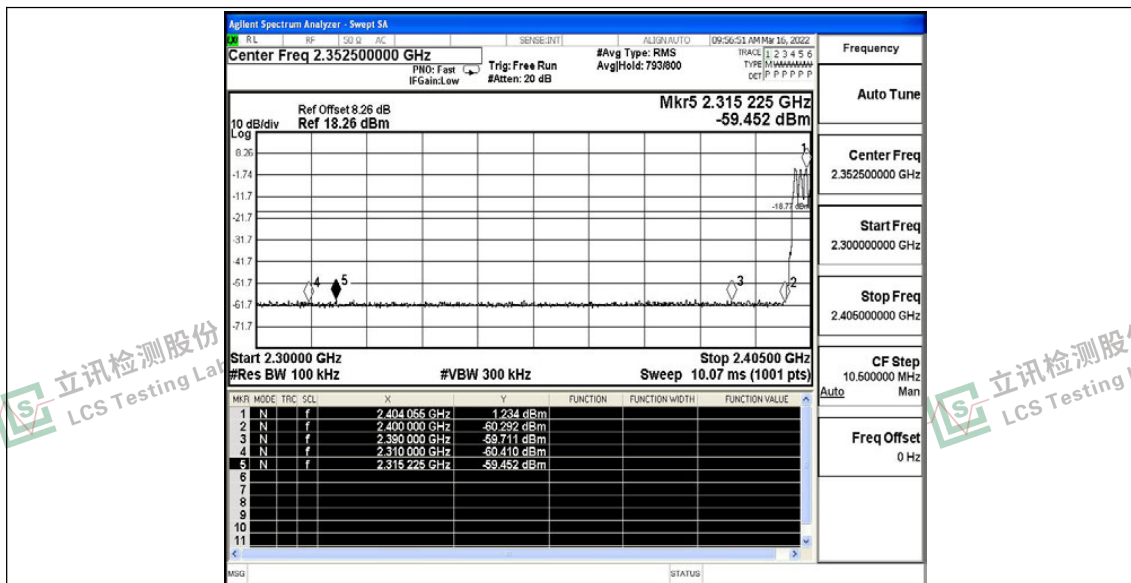
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.87	-55.15	≤-18.13	PASS
		High	2480	2.32	-57.69	≤-17.68	PASS
		Low	Hop_2402	1.23	-59.45	≤-18.77	PASS
		High	Hop_2480	1.95	-57.84	≤-18.06	PASS
2DH5	Ant1	Low	2402	0.99	-55.19	≤-19.01	PASS
		High	2480	0.55	-56.56	≤-19.45	PASS
		Low	Hop_2402	-2.77	-59.4	≤-22.77	PASS
		High	Hop_2480	-1.01	-57.82	≤-21.01	PASS
3DH5	Ant1	Low	2402	-0.08	-53.46	≤-20.08	PASS
		High	2480	1.03	-57.59	≤-18.97	PASS
		Low	Hop_2402	-3.40	-59.19	≤-23.4	PASS
		High	Hop_2480	0.69	-57.64	≤-19.31	PASS

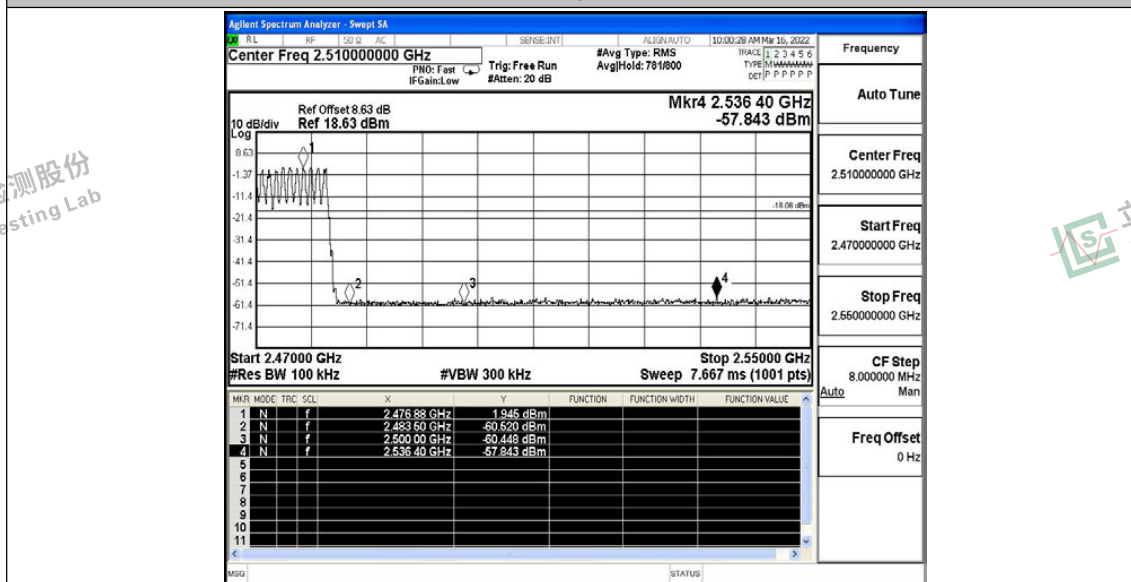


Test Graphs



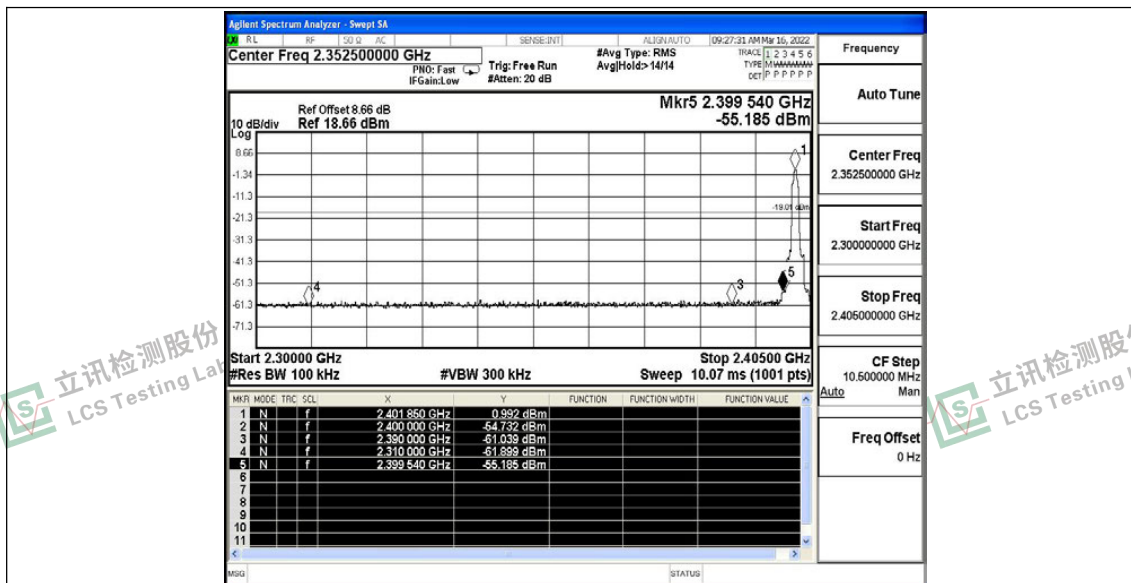


DH5_Ant1_High_Hop_2480

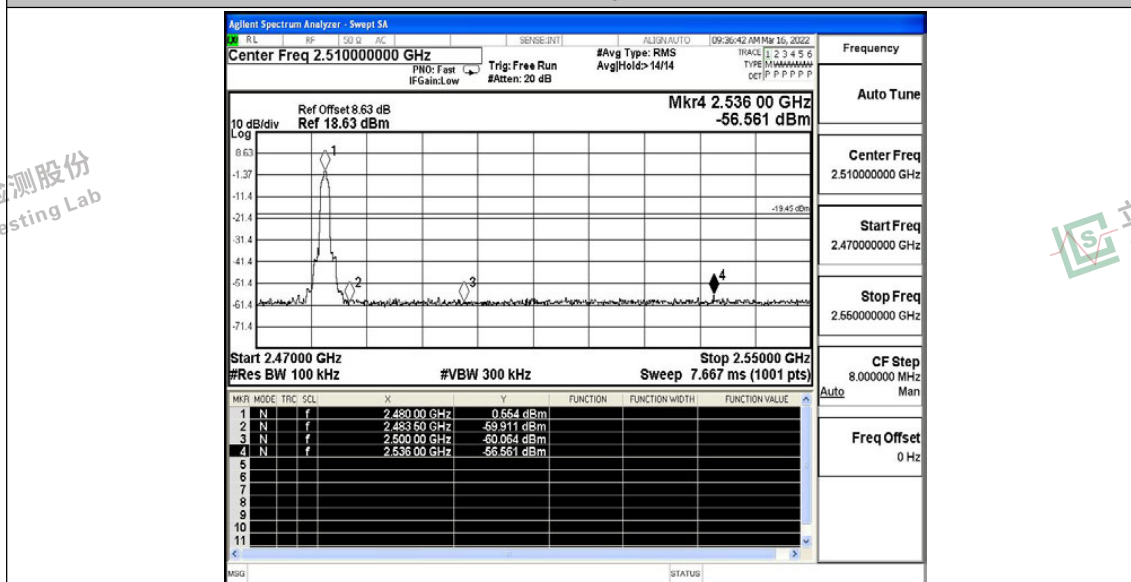


2DH5_Ant1_Low_2402



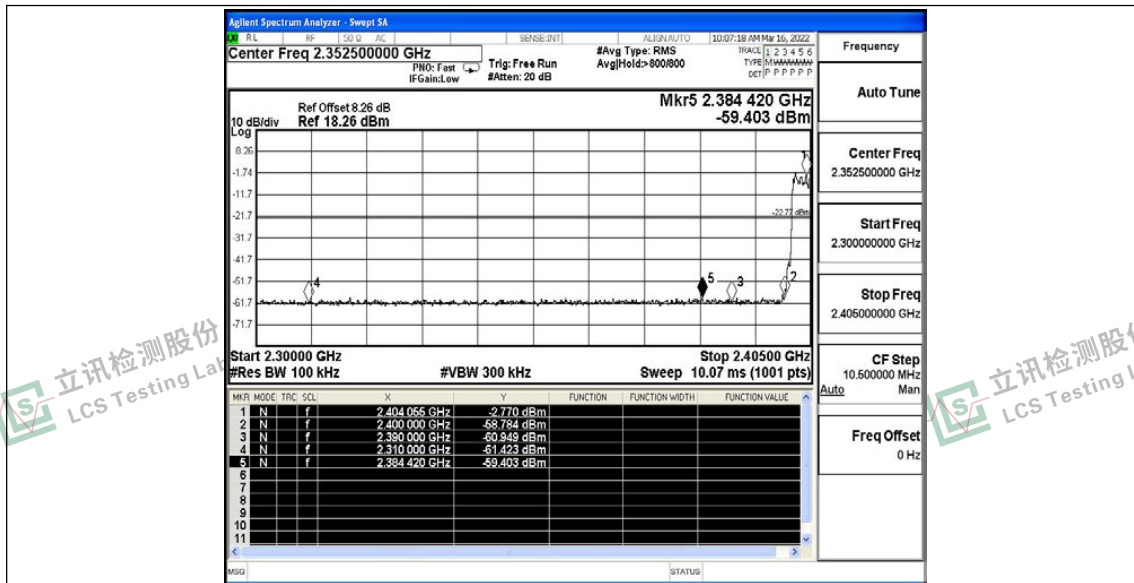


2DH5_Ant1_High_2480

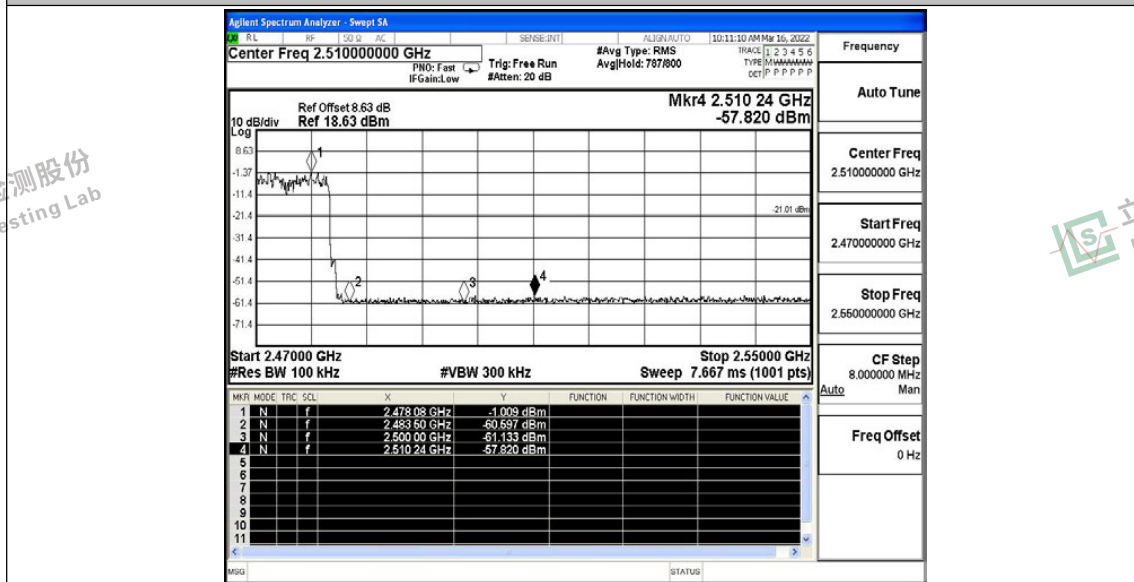


2DH5_Ant1_Low_Hop_2402





2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

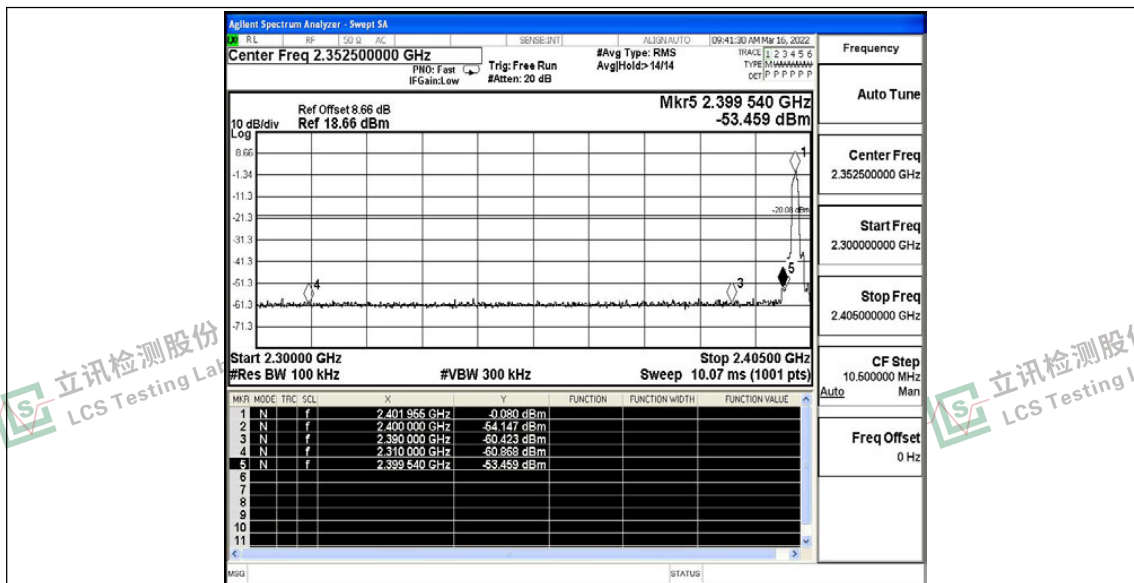


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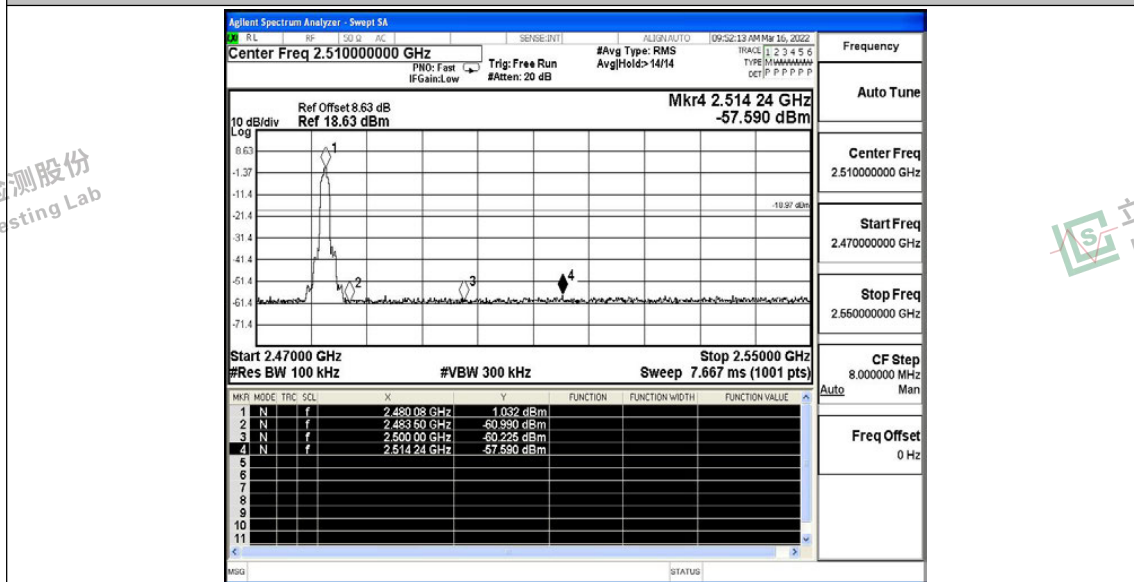
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

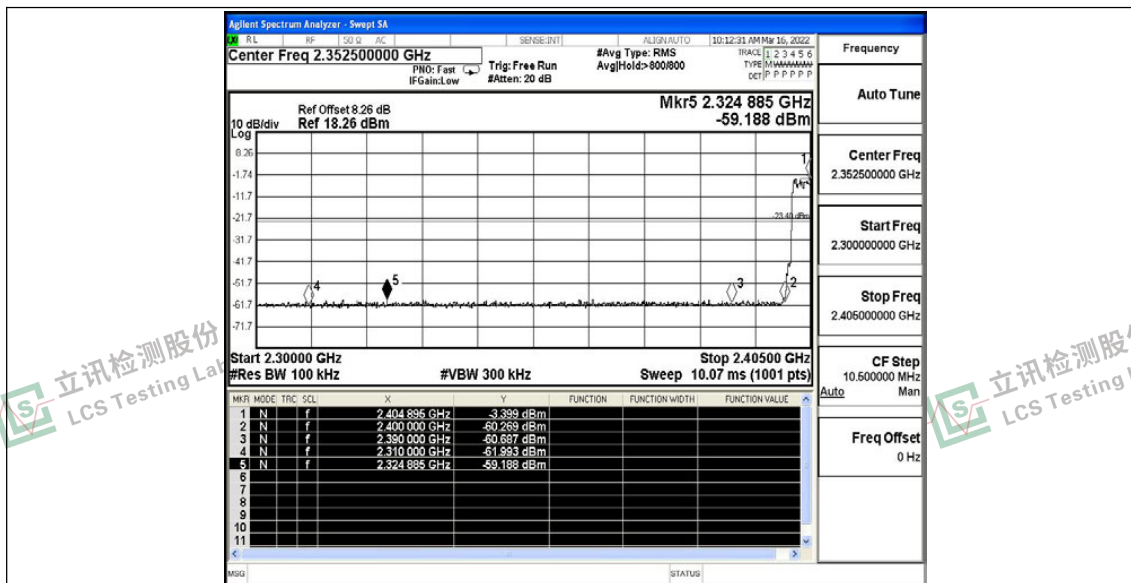


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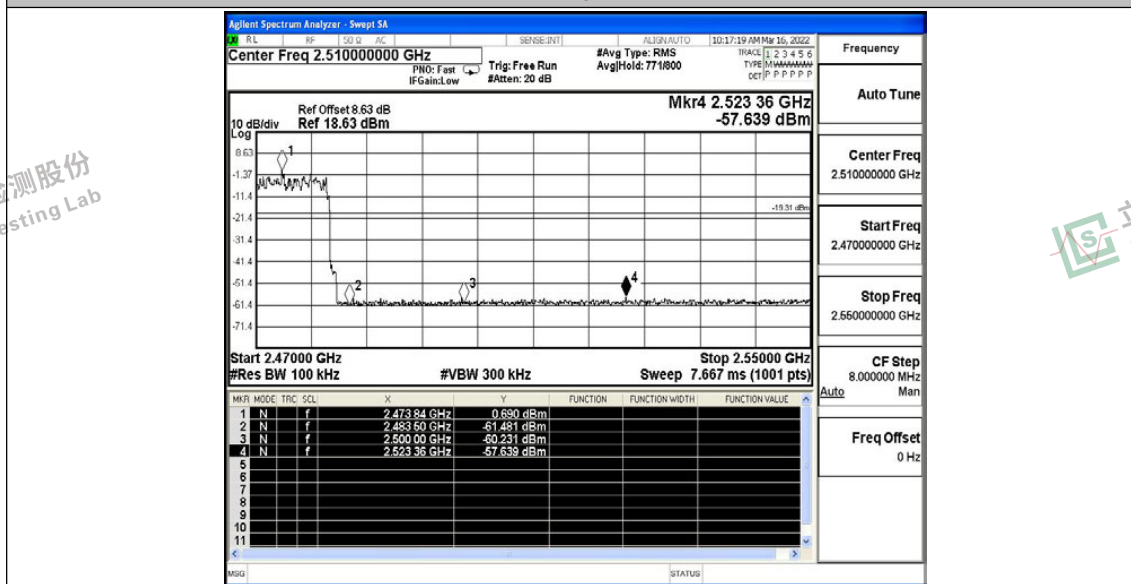
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3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-60.56	≤-18.5	PASS
			1000~26500	1.50	-46.36	≤-18.5	PASS
		2441	Reference	2.35	2.35	---	PASS
			30~1000	2.35	-60.73	≤-17.65	PASS
			1000~26500	2.35	-45.77	≤-17.65	PASS
		2480	Reference	2.06	2.06	---	PASS
			30~1000	2.06	-60.56	≤-17.94	PASS
			1000~26500	2.06	-46.19	≤-17.94	PASS
2DH5	Ant1	2402	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-59.4	≤-19.02	PASS
			1000~26500	0.98	-45.91	≤-19.02	PASS
		2441	Reference	1.43	1.43	---	PASS
			30~1000	1.43	-60.41	≤-18.57	PASS
			1000~26500	1.43	-44.52	≤-18.57	PASS
		2480	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-59.93	≤-18.82	PASS
			1000~26500	1.18	-46.38	≤-18.82	PASS
3DH5	Ant1	2402	Reference	1.03	1.03	---	PASS
			30~1000	1.03	-58.84	≤-18.97	PASS
			1000~26500	1.03	-45.45	≤-18.97	PASS
		2441	Reference	1.51	1.51	---	PASS
			30~1000	1.51	-59.46	≤-18.49	PASS
			1000~26500	1.51	-46.81	≤-18.49	PASS
		2480	Reference	1.21	1.21	---	PASS
			30~1000	1.21	-60.19	≤-18.79	PASS
			1000~26500	1.21	-46.23	≤-18.79	PASS



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