



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Lumicharge III

Test Model: LC3

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
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	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.984	2401.511	2402.495	---	PASS
		2441	1.017	2440.463	2441.480	---	PASS
		2480	0.969	2479.523	2480.492	---	PASS
2DH5	Ant1	2402	1.326	2401.328	2402.654	---	PASS
		2441	1.299	2440.352	2441.651	---	PASS
		2480	1.290	2479.355	2480.645	---	PASS
3DH5	Ant1	2402	1.344	2401.319	2402.663	---	PASS
		2441	1.290	2440.346	2441.636	---	PASS
		2480	1.305	2479.340	2480.645	---	PASS



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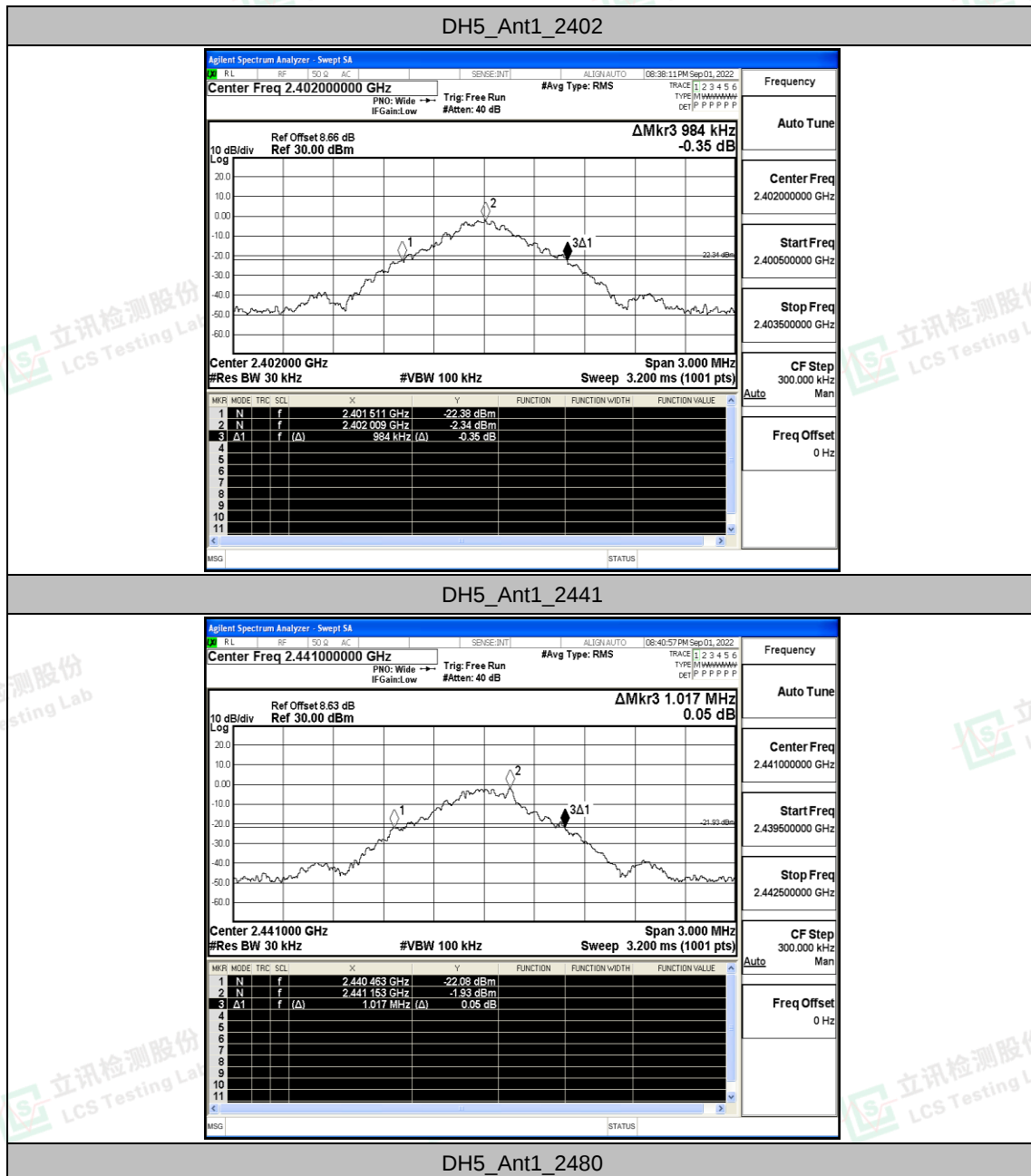
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Test Graphs

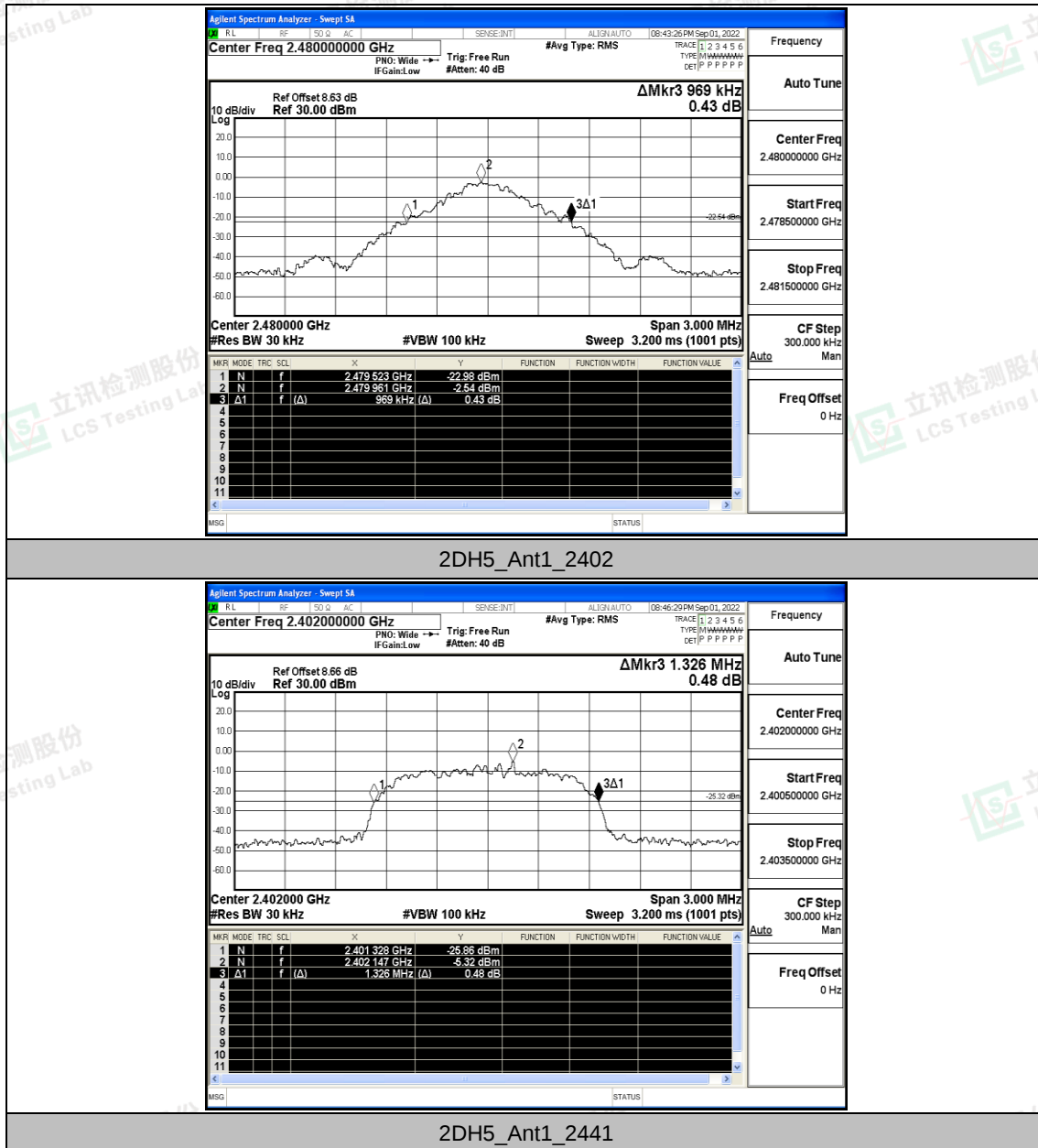


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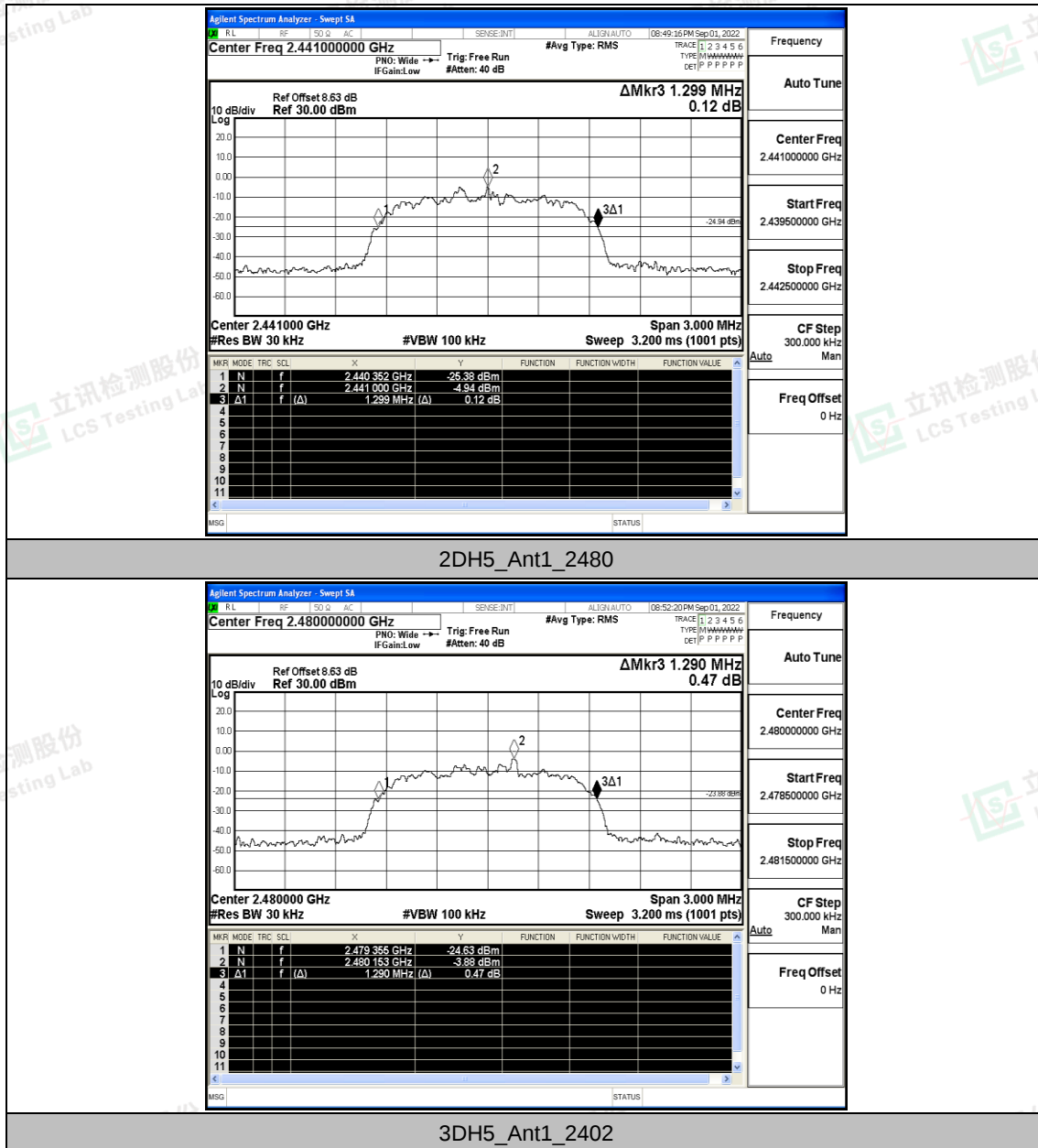


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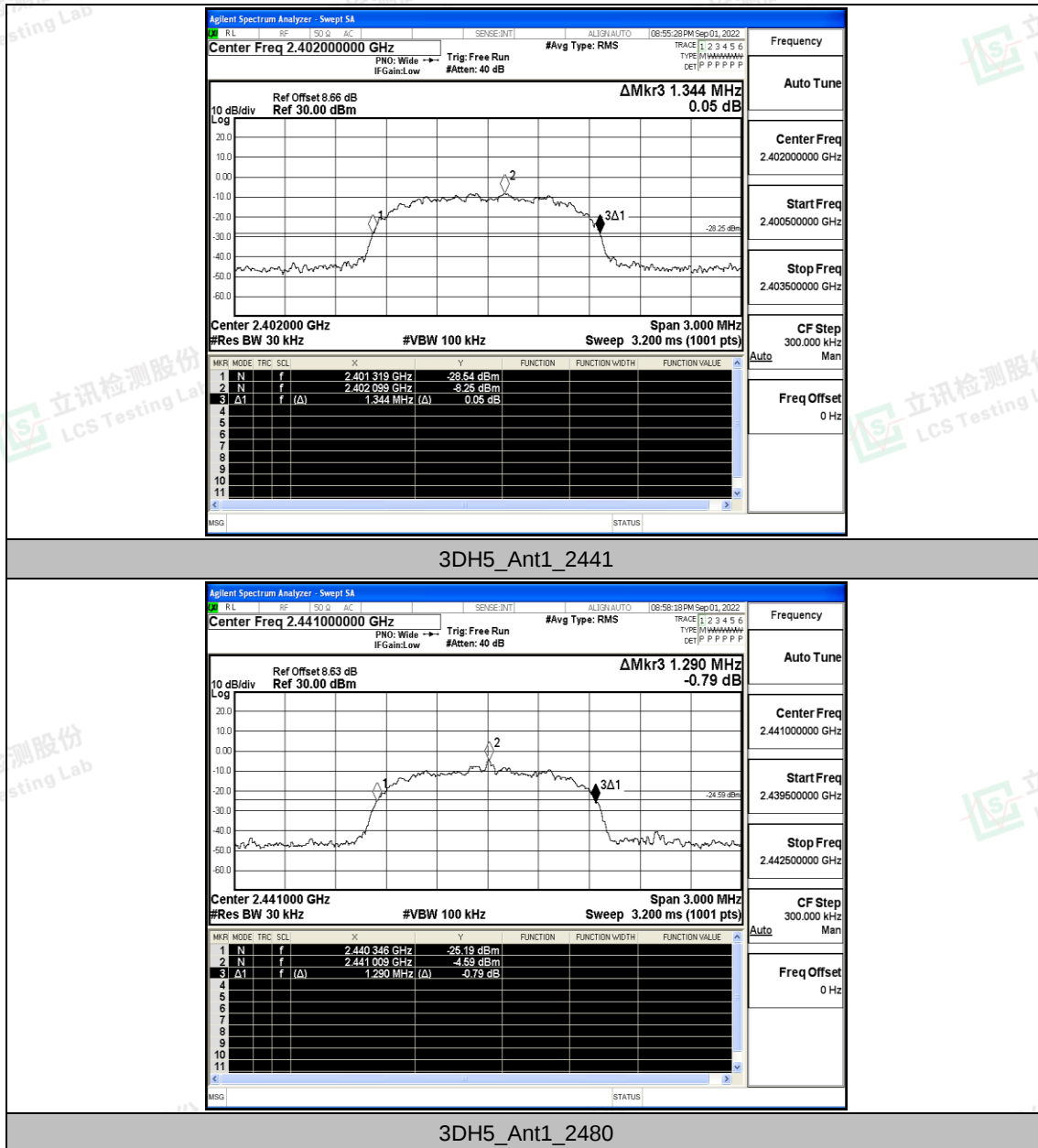


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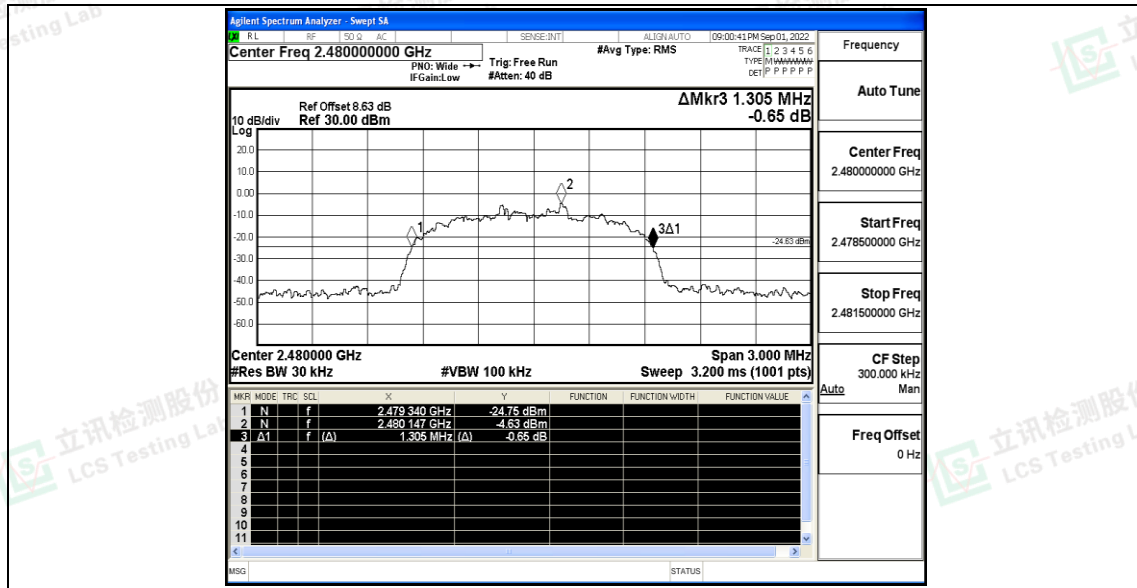


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A.2 Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.37	≤20.97	PASS
		2441	0.78	≤20.97	PASS
		2480	0.65	≤20.97	PASS
2DH5	Ant1	2402	0.43	≤20.97	PASS
		2441	0.35	≤20.97	PASS
		2480	0.41	≤20.97	PASS
3DH5	Ant1	2402	0.47	≤20.97	PASS
		2441	0.48	≤20.97	PASS
		2480	0.36	≤20.97	PASS



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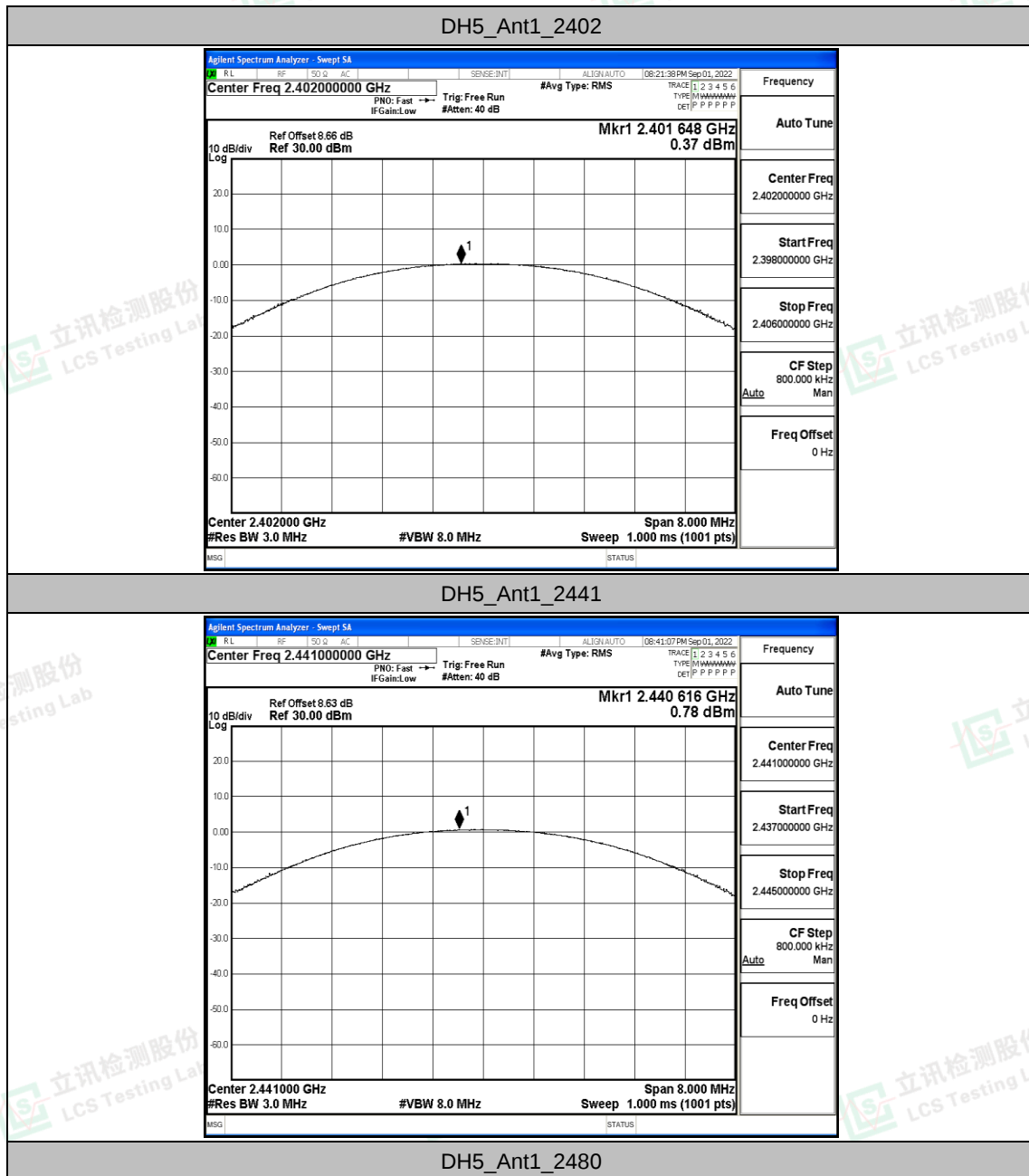
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Test Graphs

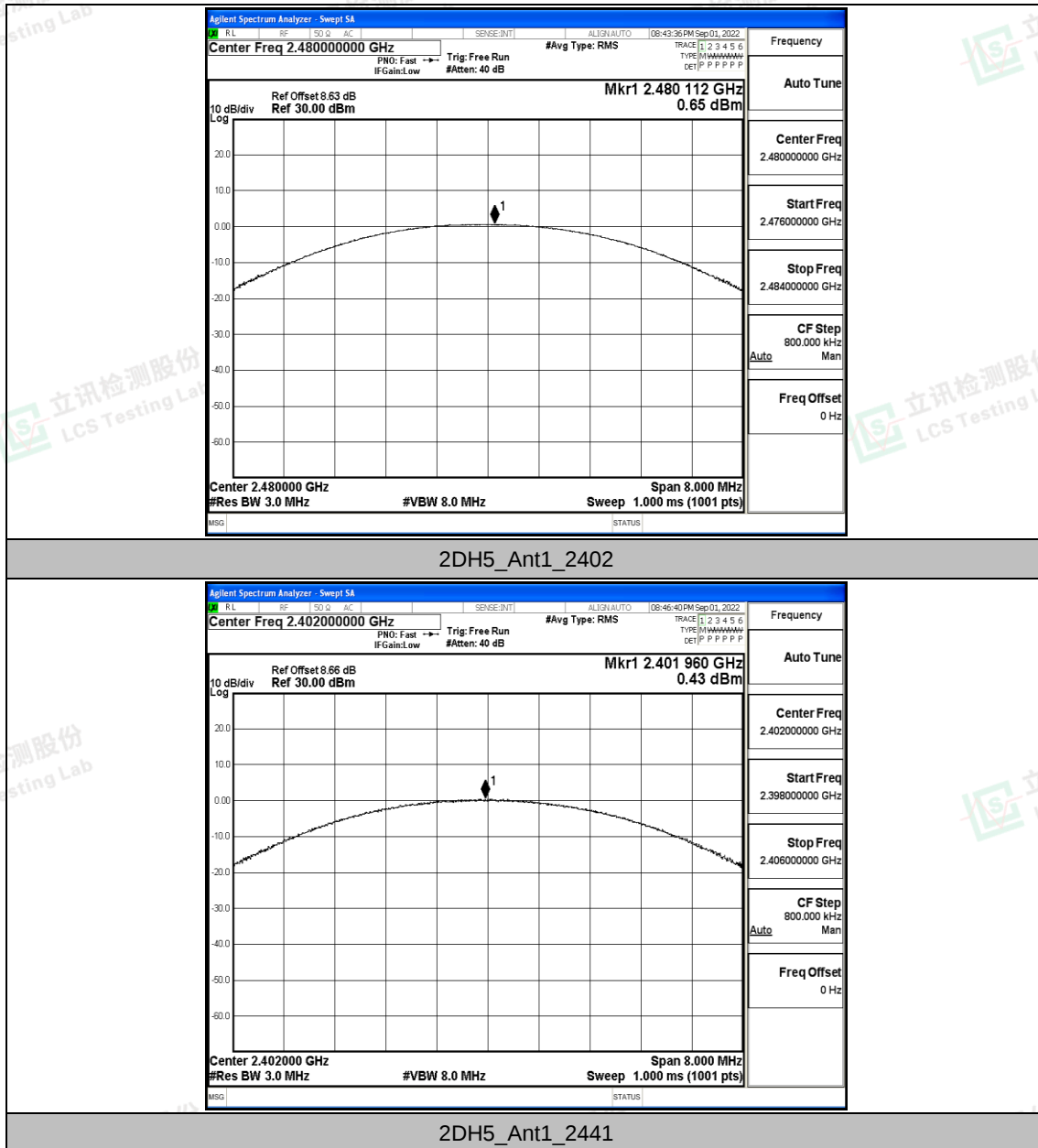


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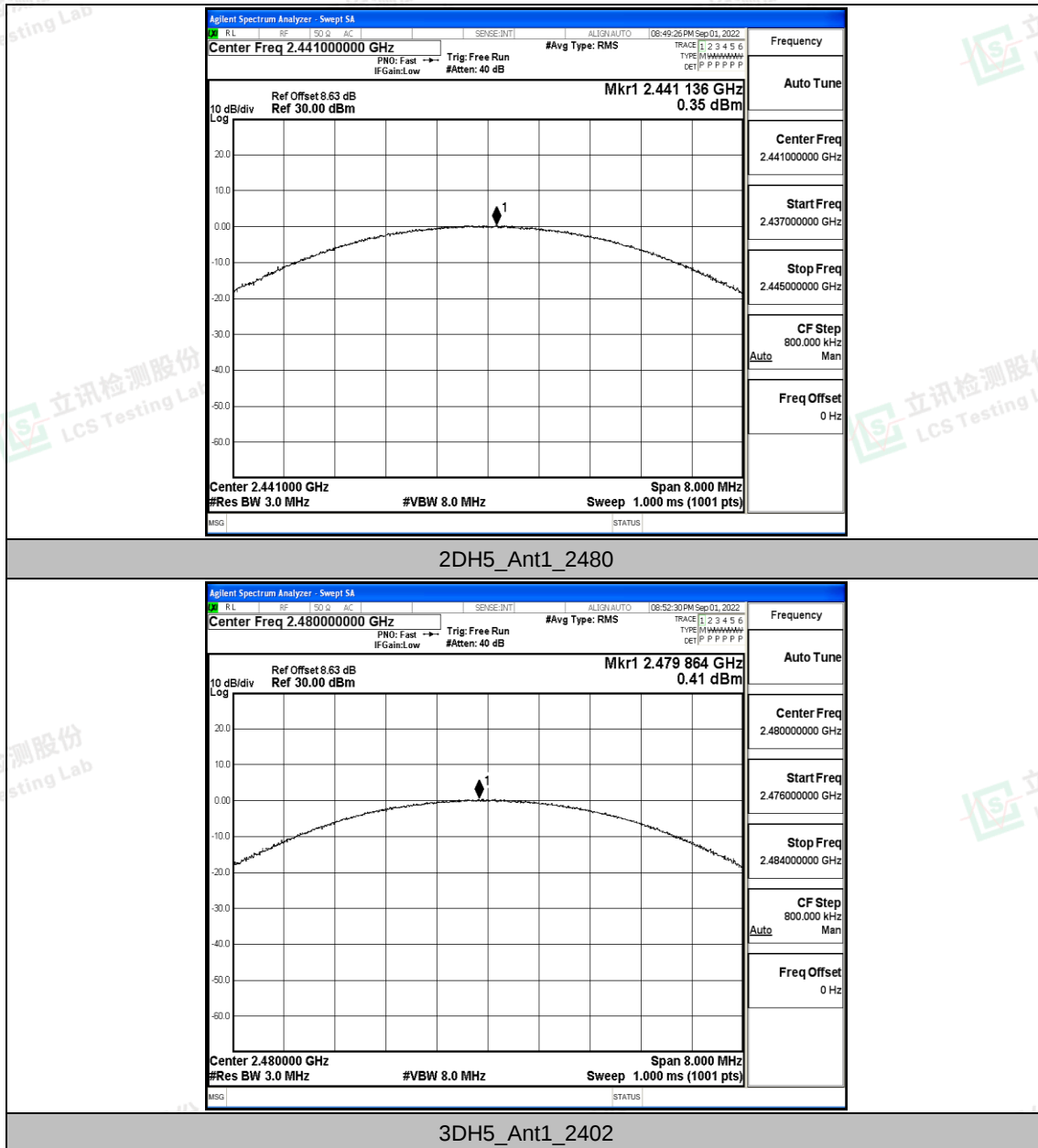


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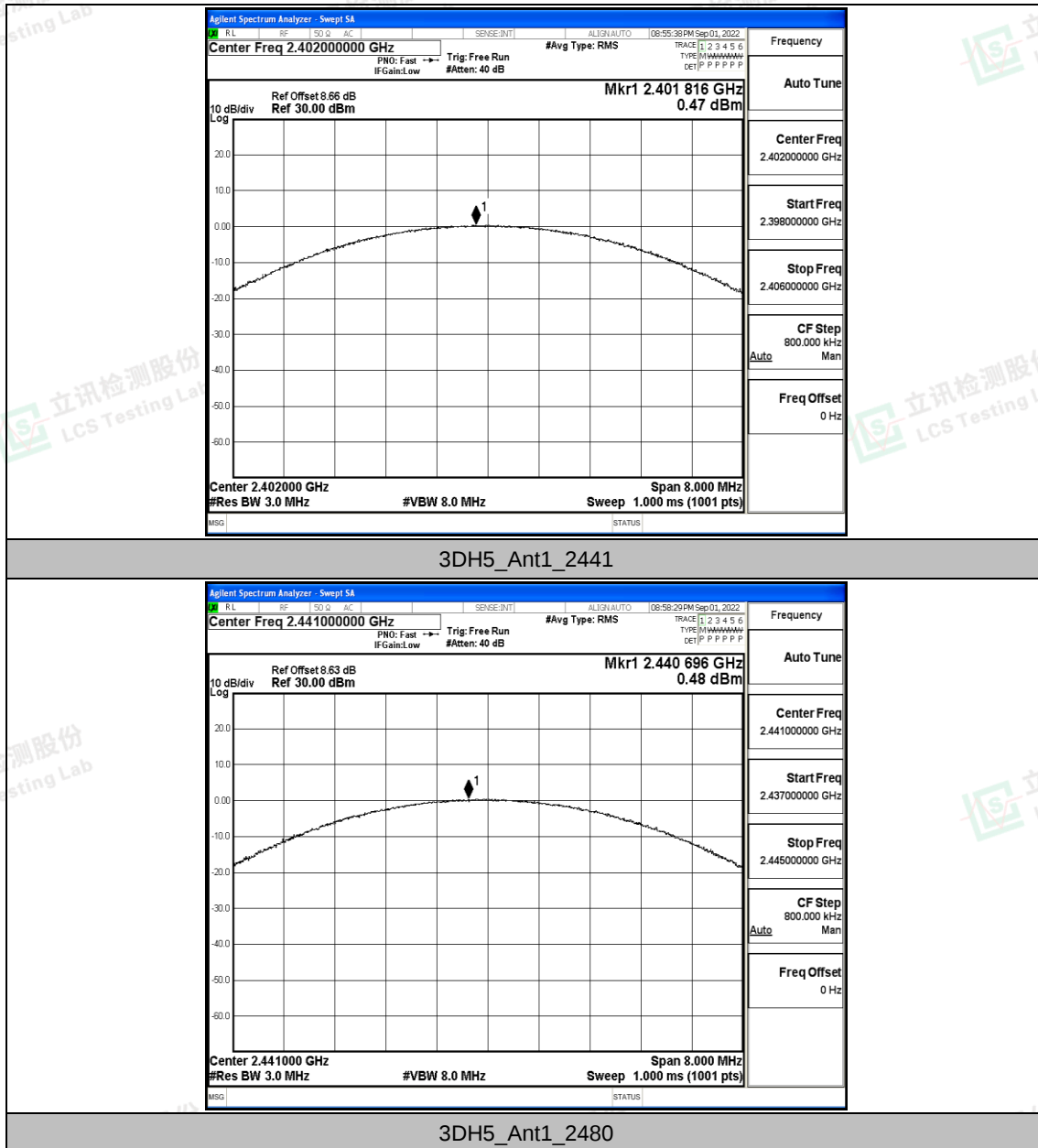


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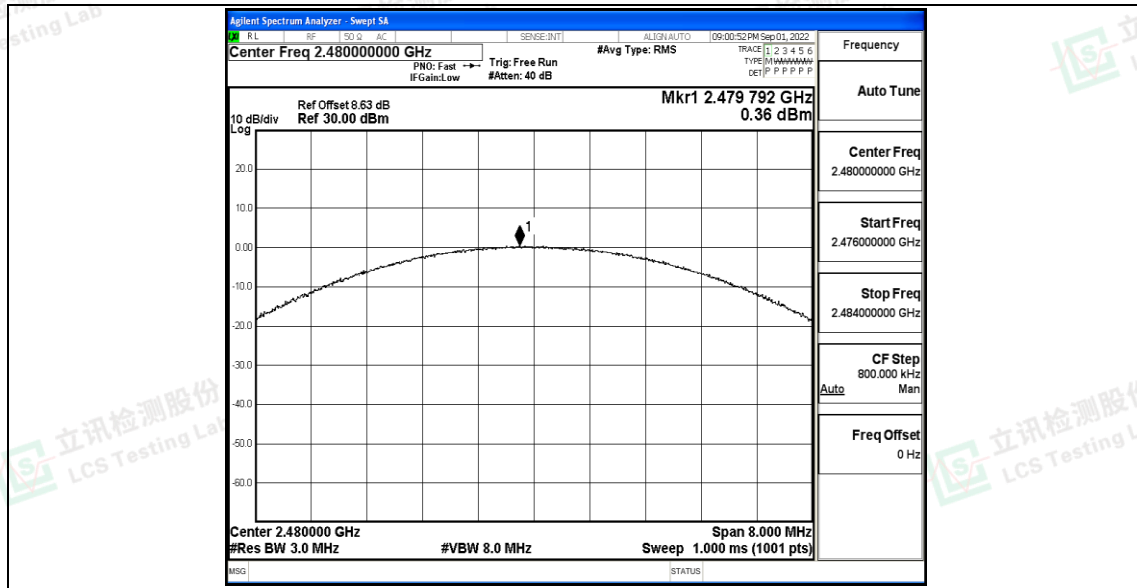


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.696	≥ 0.678	PASS
2DH5	Ant1	Hop	1.098	≥ 0.884	PASS
3DH5	Ant1	Hop	0.954	≥ 0.896	PASS

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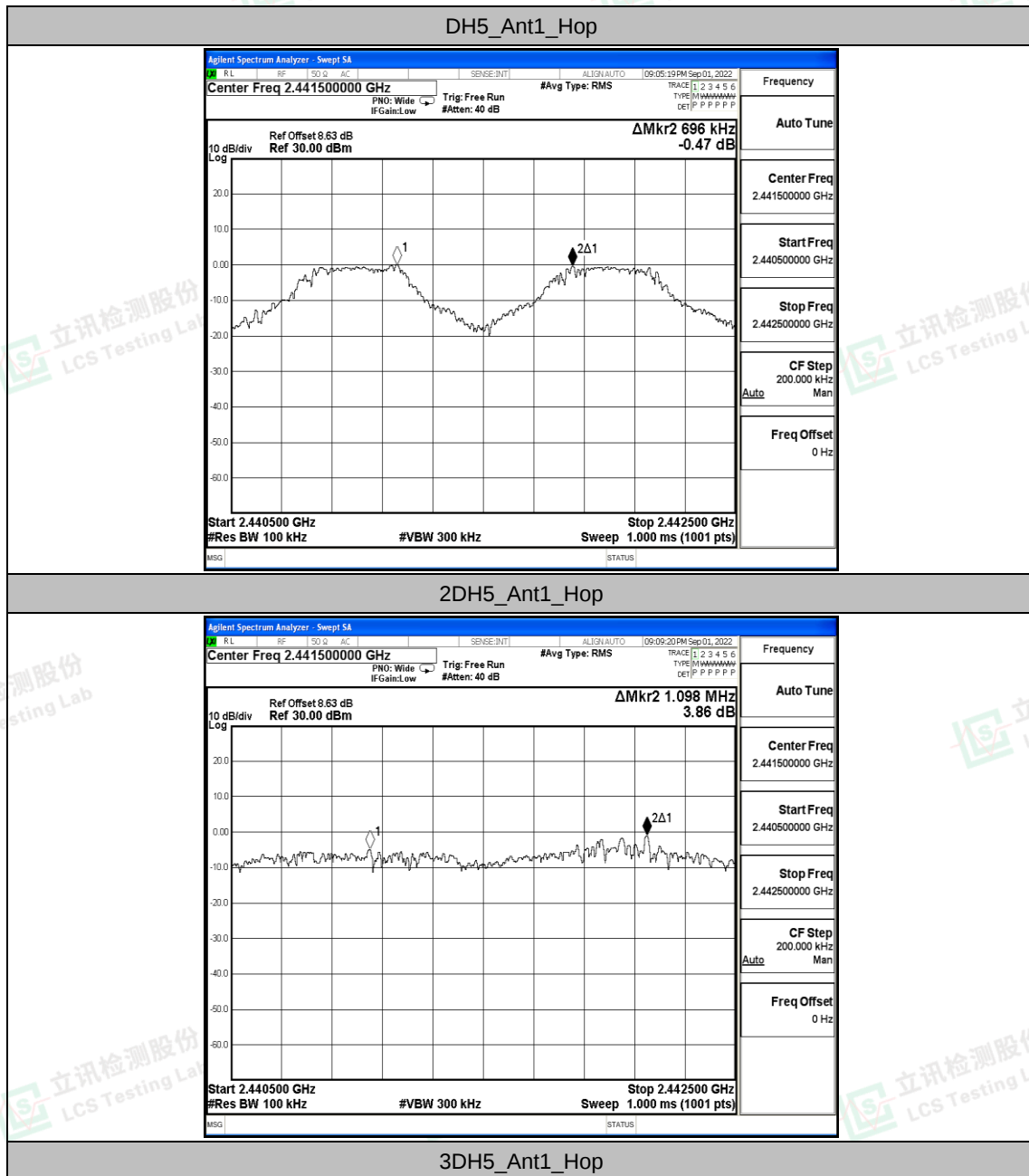
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Test Graphs

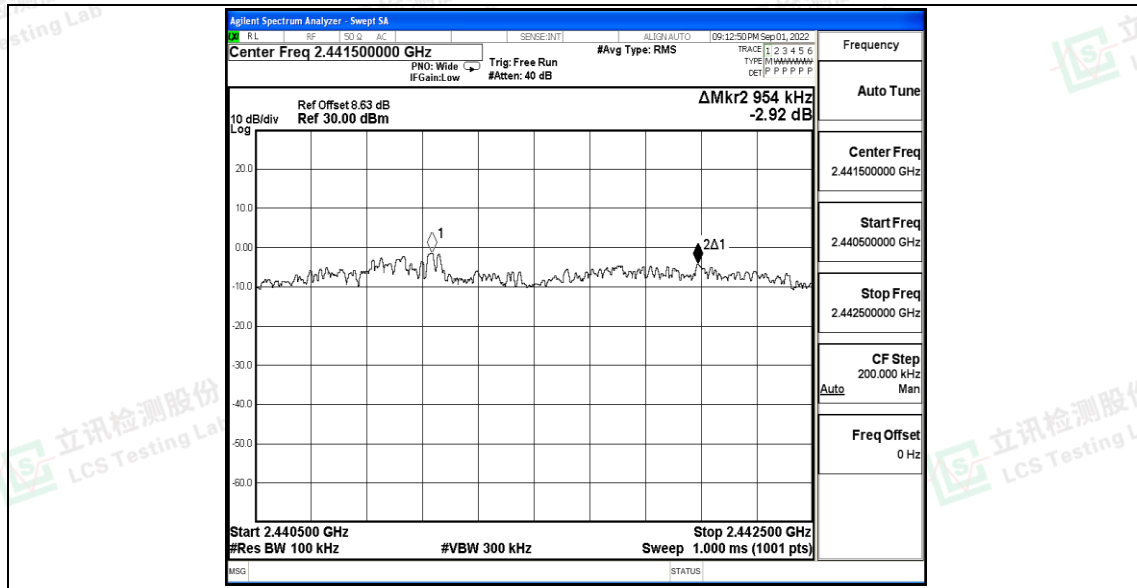


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A.4 Time of occupancy

Test Result

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

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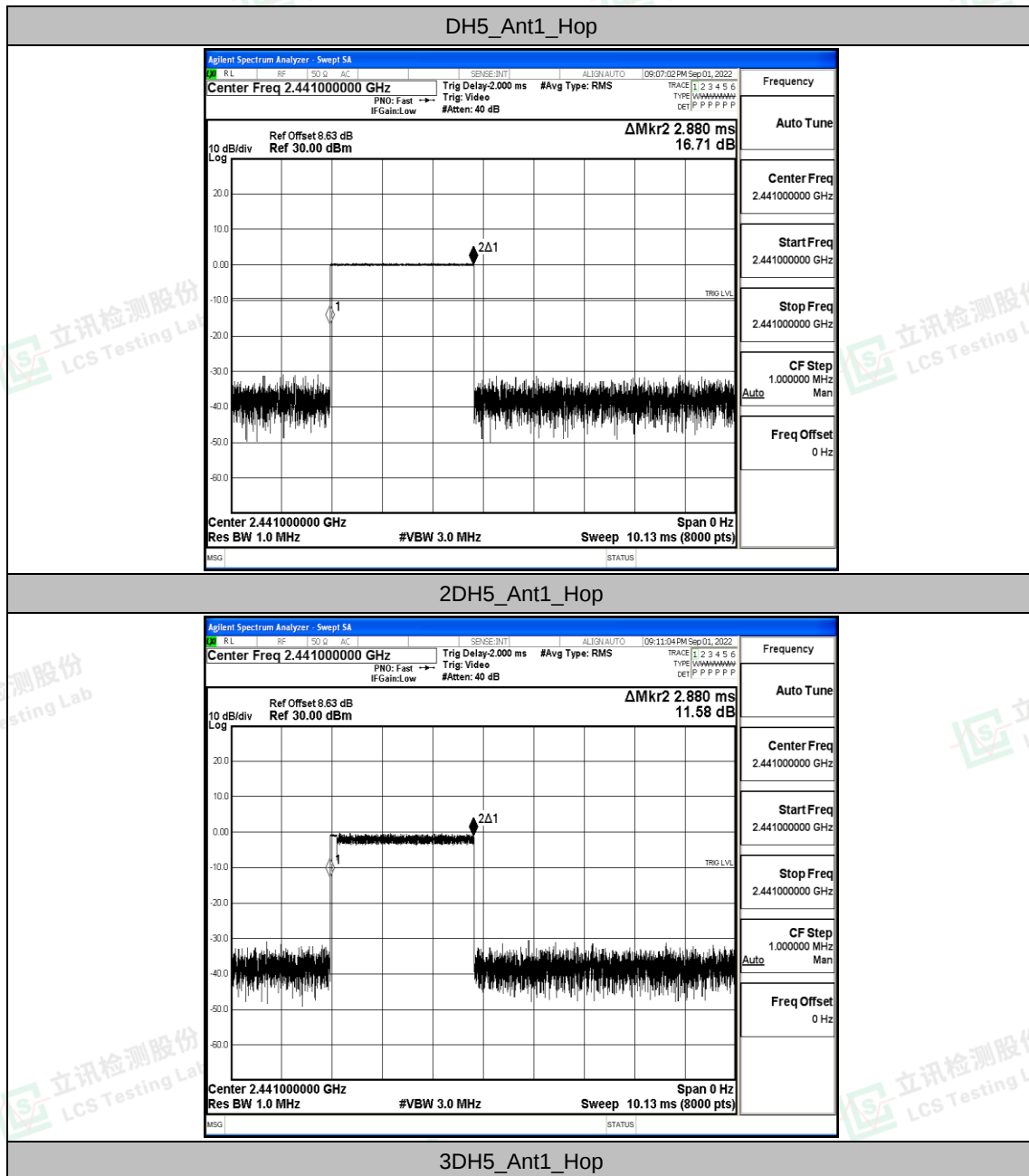
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Test Graphs

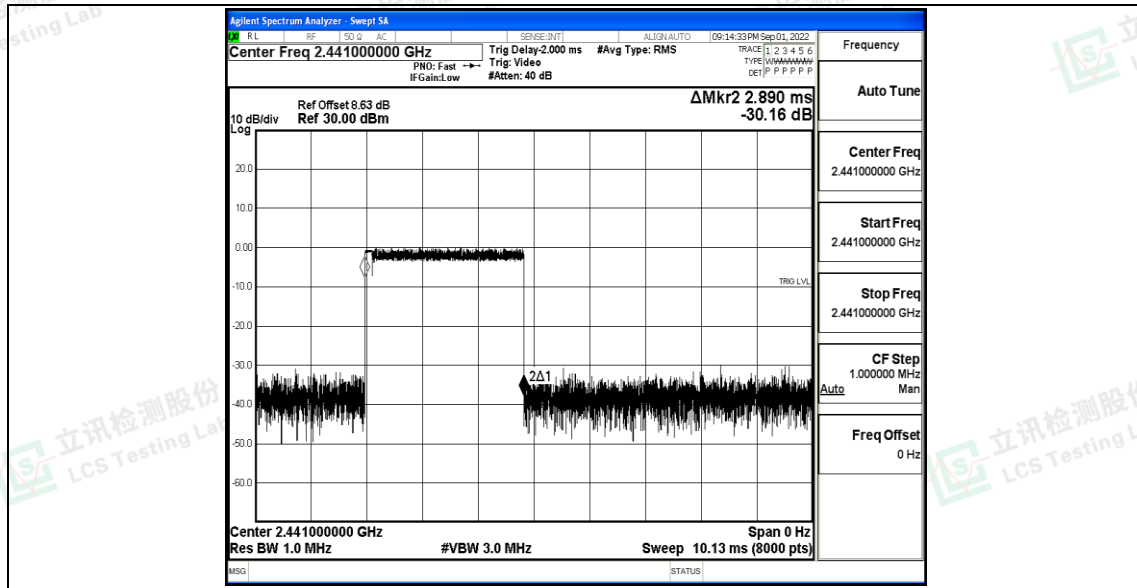


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A.5 Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

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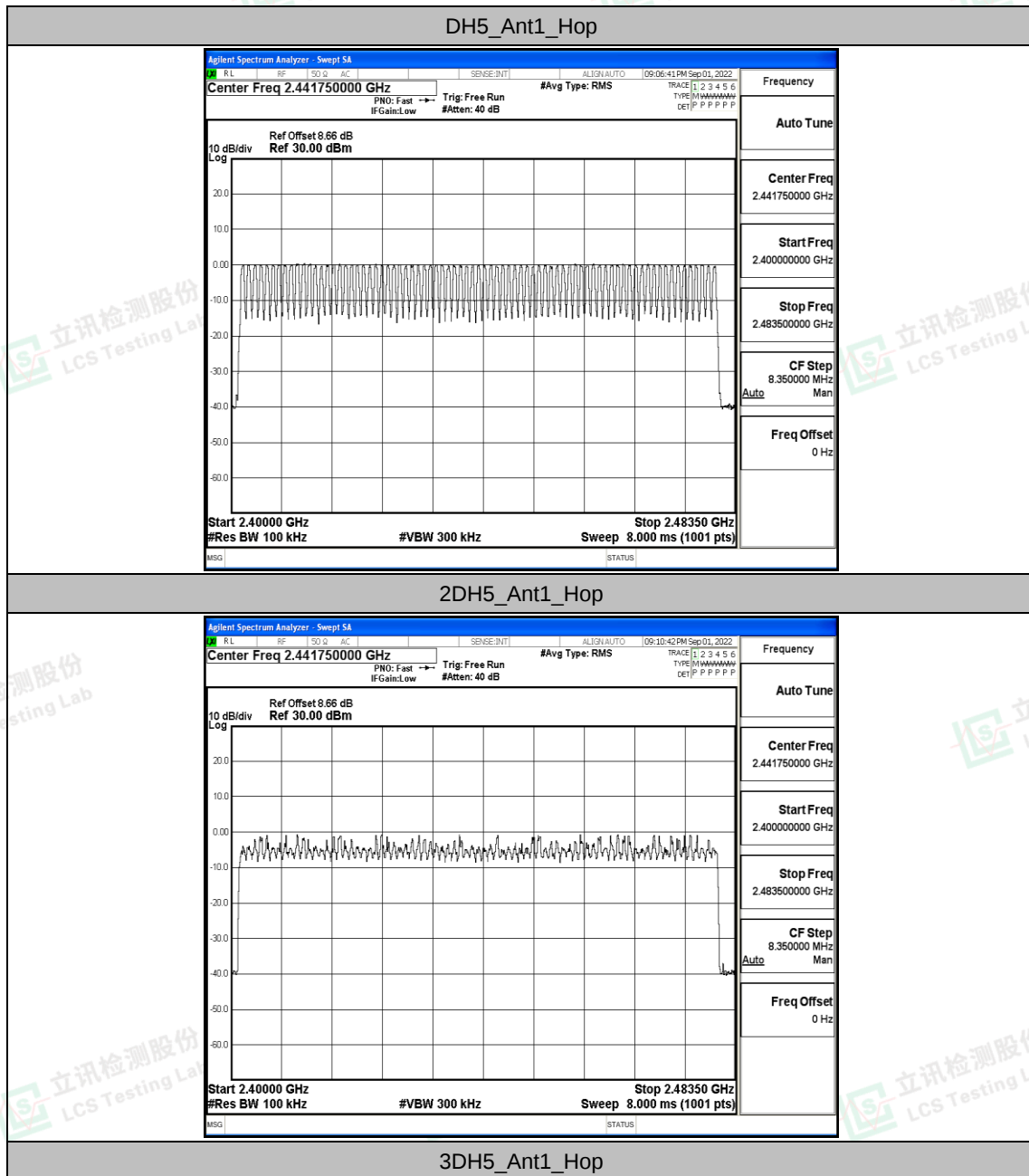
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Test Graphs

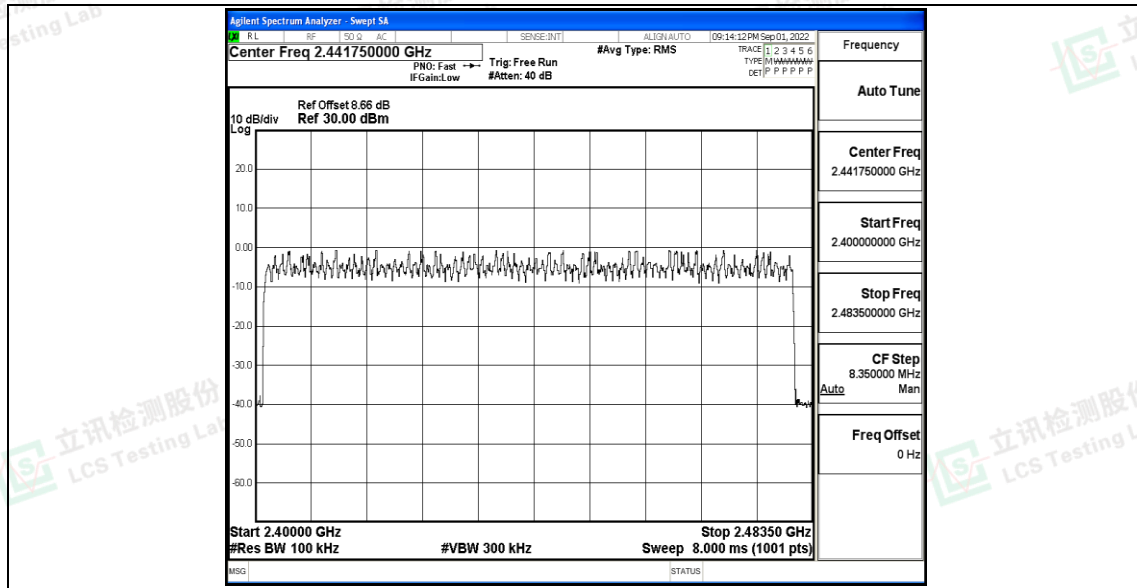


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.34	-58.95	≤ -21.34	PASS
		High	2480	-0.80	-58.14	≤ -20.8	PASS
		Low	Hop_2402	-1.25	-58.58	≤ -21.25	PASS
		High	Hop_2480	-0.02	-58	≤ -20.02	PASS
2DH5	Ant1	Low	2402	-4.98	-56.28	≤ -24.98	PASS
		High	2480	-5.07	-59.43	≤ -25.07	PASS
		Low	Hop_2402	-1.24	-58.37	≤ -21.24	PASS
		High	Hop_2480	-1.36	-56.9	≤ -21.36	PASS
3DH5	Ant1	Low	2402	-4.03	-58.64	≤ -24.03	PASS
		High	2480	-5.88	-59.05	≤ -25.88	PASS
		Low	Hop_2402	-2.83	-58.91	≤ -22.83	PASS
		High	Hop_2480	-3.72	-56.86	≤ -23.72	PASS



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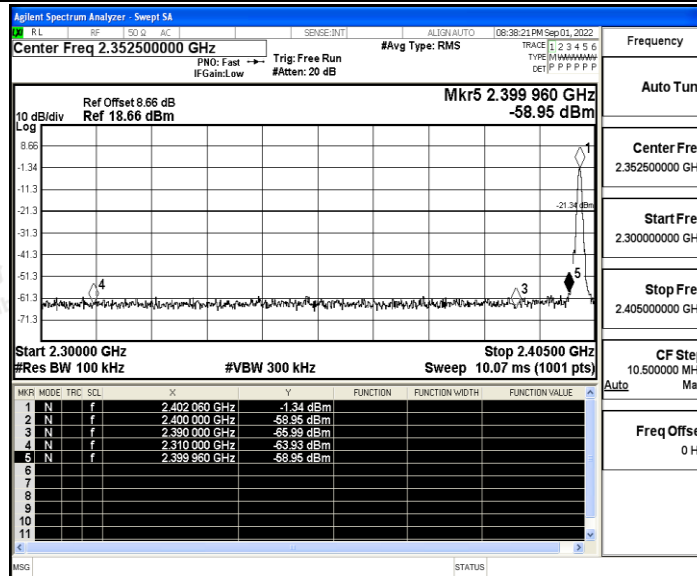
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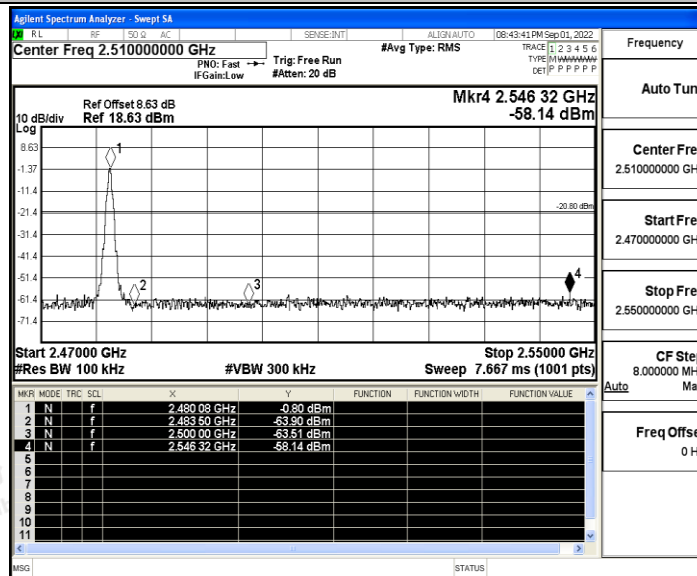


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

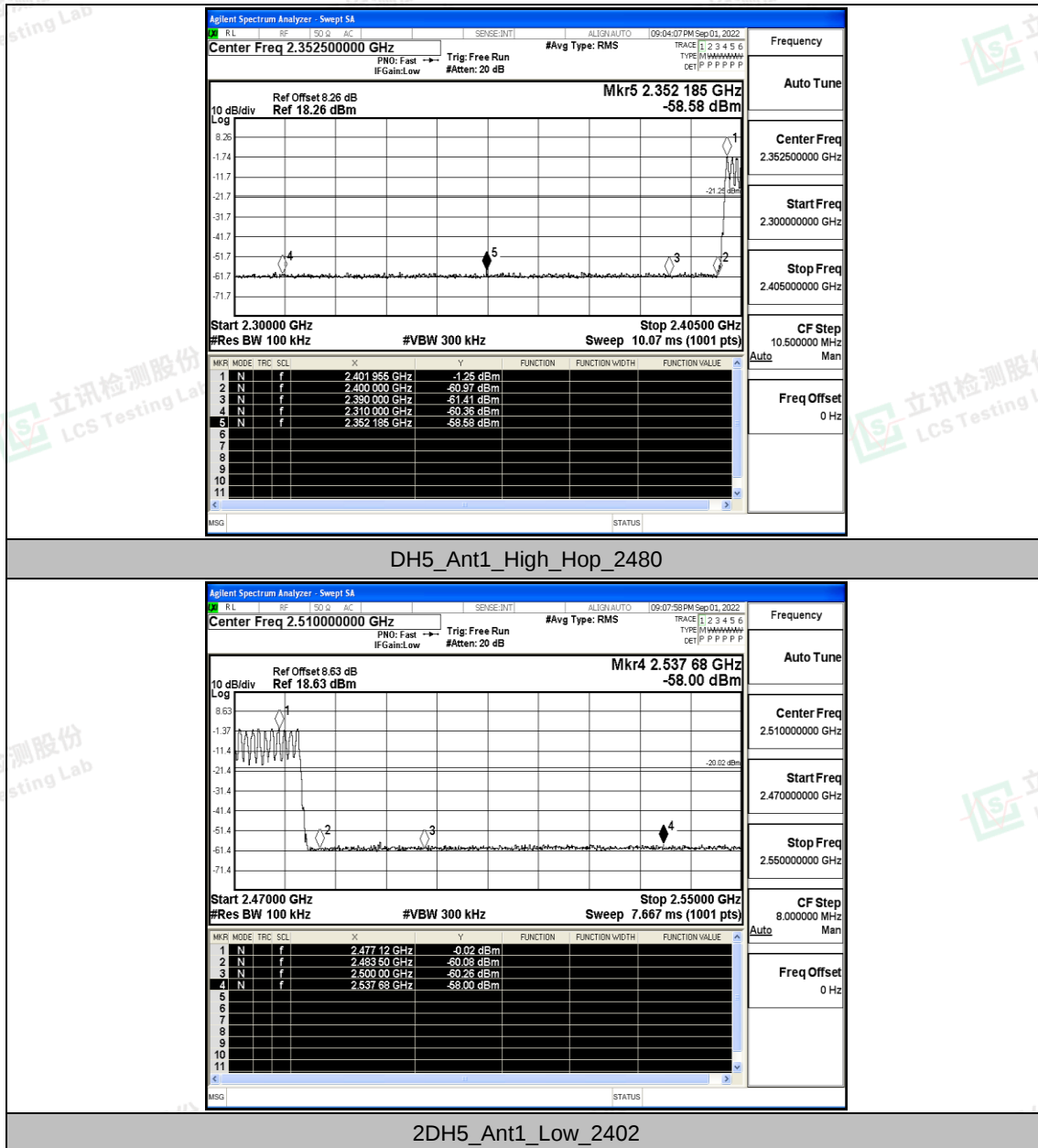


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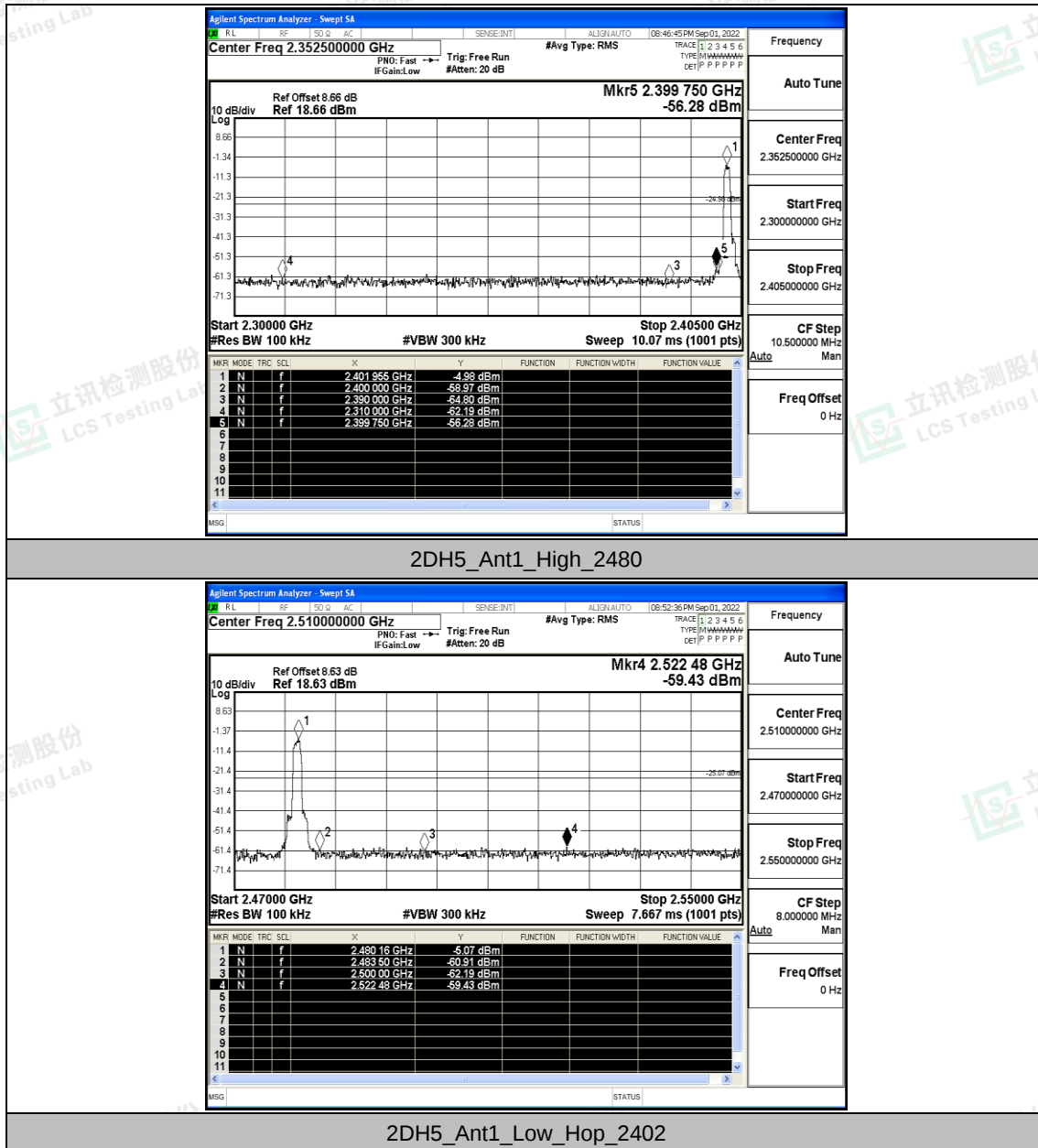


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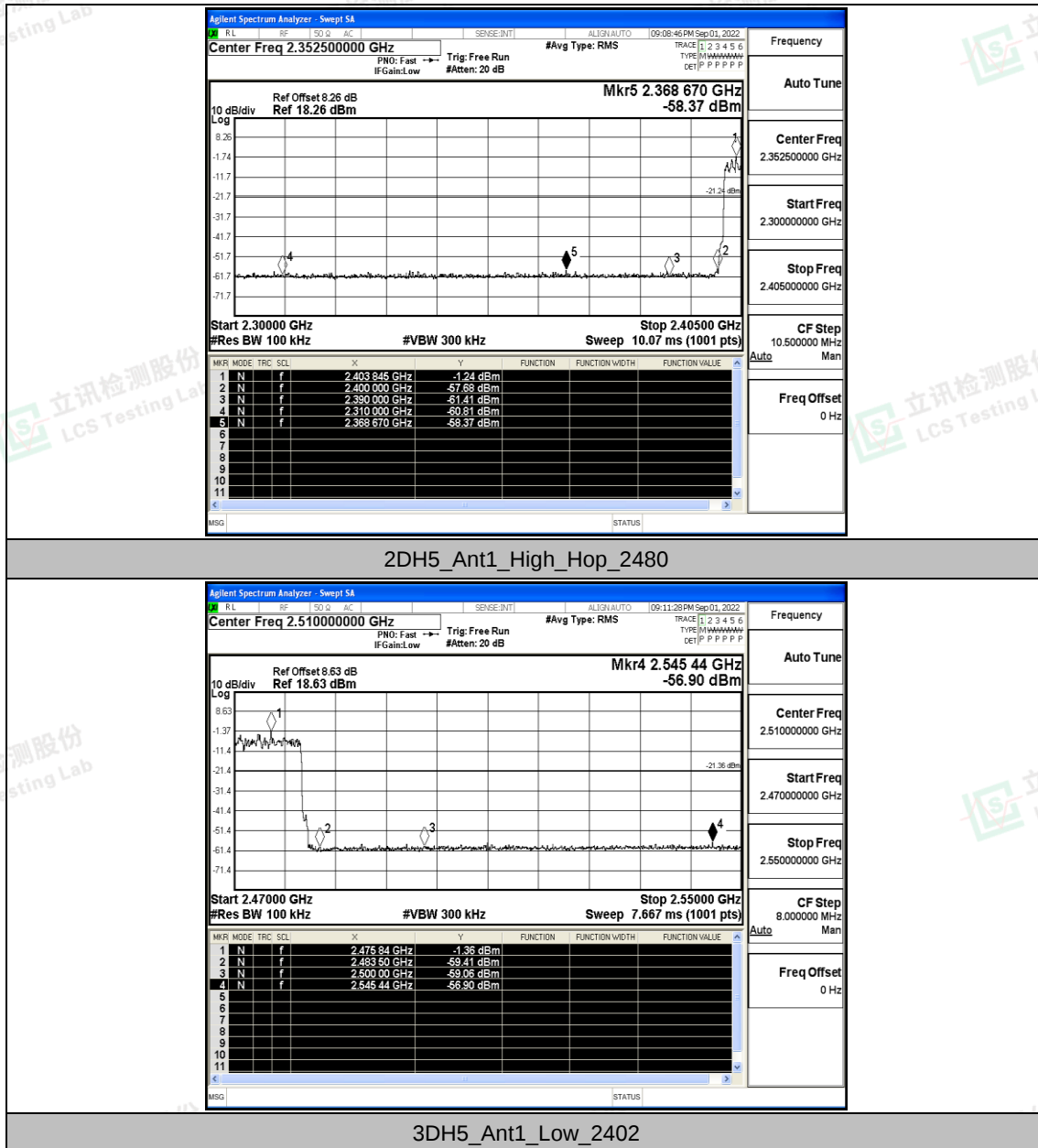


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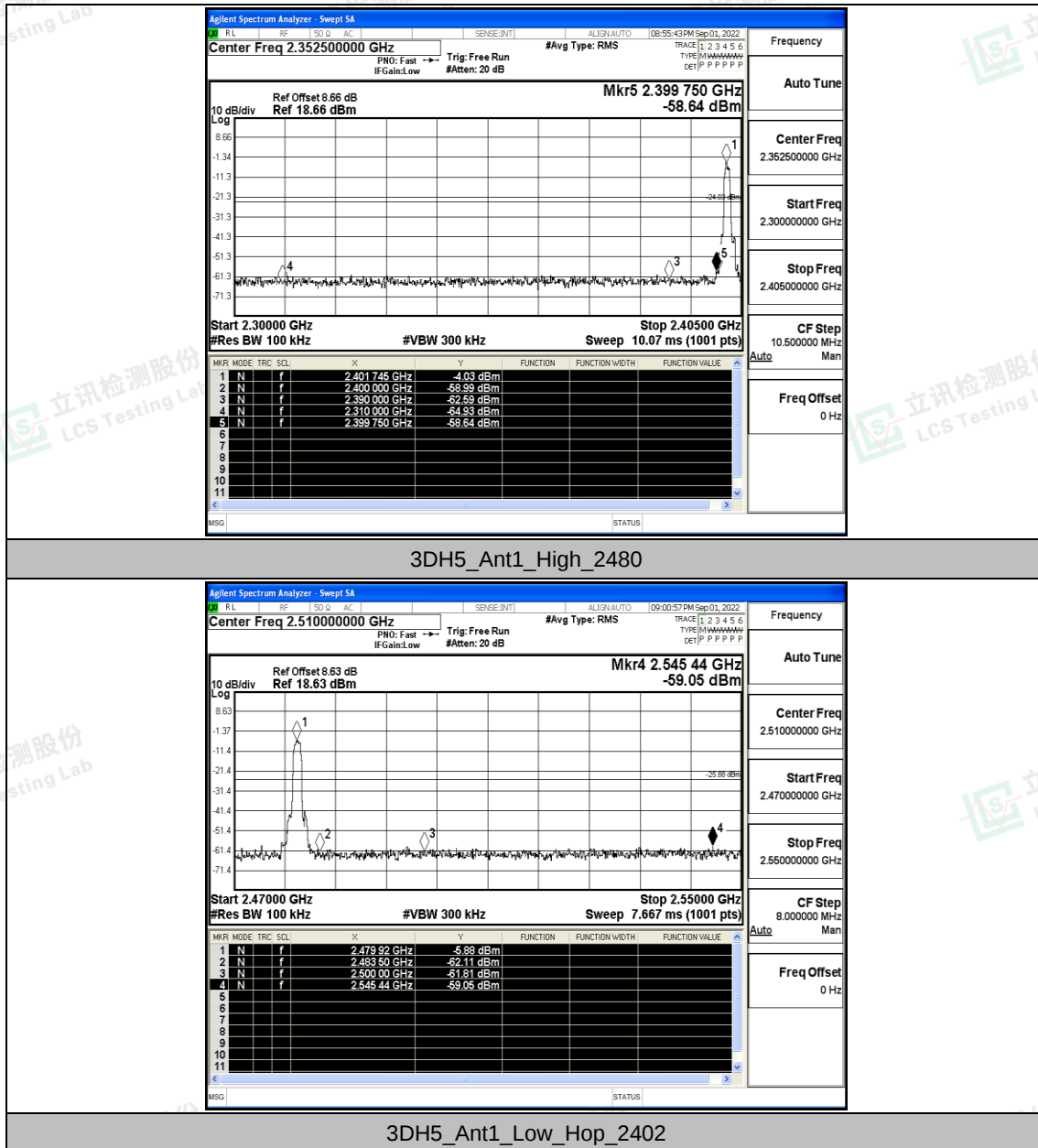


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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.92	-0.92	---	PASS
			30~1000	-0.92	-60.99	≤-20.92	PASS
			1000~26500	-0.92	-45.96	≤-20.92	PASS
		2441	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-60.8	≤-20.81	PASS
			1000~26500	-0.81	-46.19	≤-20.81	PASS
		2480	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-60.26	≤-20.78	PASS
			1000~26500	-0.78	-46.24	≤-20.78	PASS
2DH5	Ant1	2402	Reference	-5.14	-5.14	---	PASS
			30~1000	-5.14	-59.68	≤-25.14	PASS
			1000~26500	-5.14	-46.38	≤-25.14	PASS
		2441	Reference	-1.94	-1.94	---	PASS
			30~1000	-1.94	-61.22	≤-21.94	PASS
			1000~26500	-1.94	-45.98	≤-21.94	PASS
		2480	Reference	-1.31	-1.31	---	PASS
			30~1000	-1.31	-60.88	≤-21.31	PASS
			1000~26500	-1.31	-45.37	≤-21.31	PASS
3DH5	Ant1	2402	Reference	-1.17	-1.17	---	PASS
			30~1000	-1.17	-60.77	≤-21.17	PASS
			1000~26500	-1.17	-45.78	≤-21.17	PASS
		2441	Reference	-2.56	-2.56	---	PASS
			30~1000	-2.56	-60.88	≤-22.56	PASS
			1000~26500	-2.56	-46.52	≤-22.56	PASS
		2480	Reference	-2.47	-2.47	---	PASS
			30~1000	-2.47	-60.69	≤-22.47	PASS
			1000~26500	-2.47	-45.57	≤-22.47	PASS



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