



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Speaker

Test Model: A16

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
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	1.017	2401.481	2402.498	---
		2441	1.041	2440.475	2441.516	---
		2480	1.023	2479.493	2480.516	---
2DH5	Ant1	2402	1.353	2401.328	2402.681	---
		2441	1.377	2440.316	2441.693	---
		2480	1.368	2479.331	2480.699	---
3DH5	Ant1	2402	1.305	2401.358	2402.663	---
		2441	1.296	2440.352	2441.648	---
		2480	1.299	2479.355	2480.654	---



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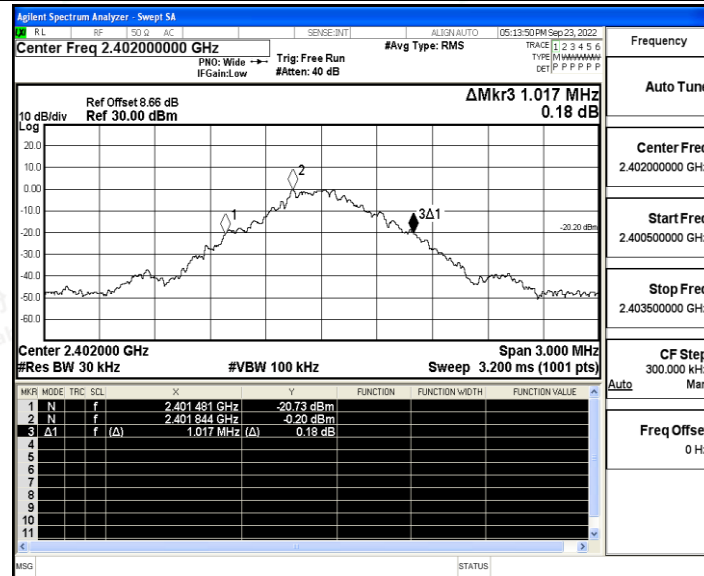
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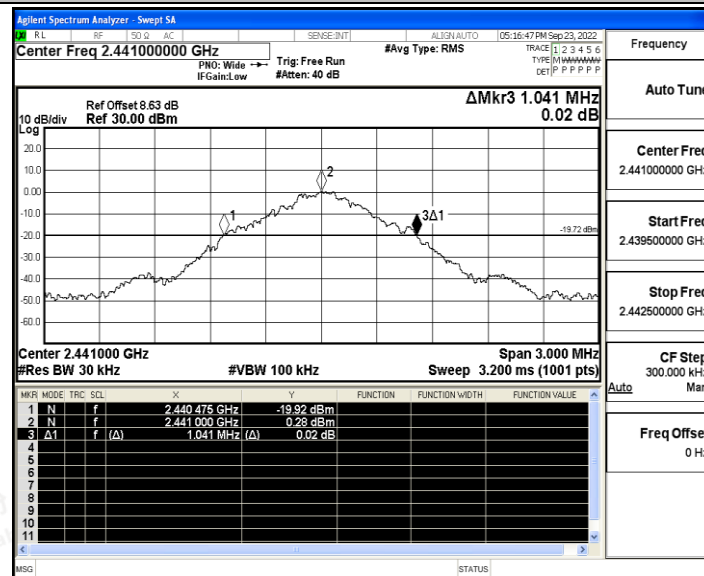


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

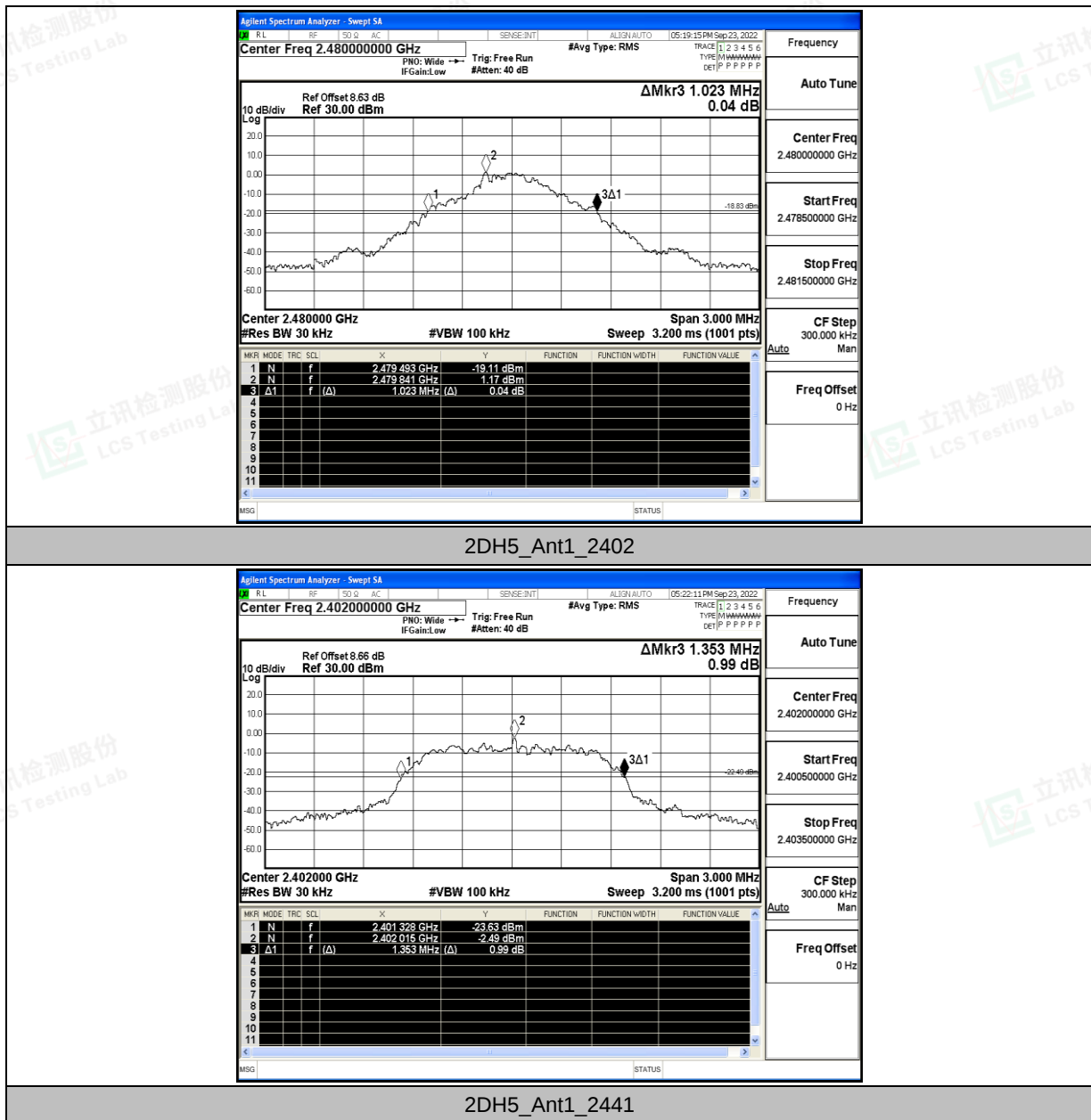


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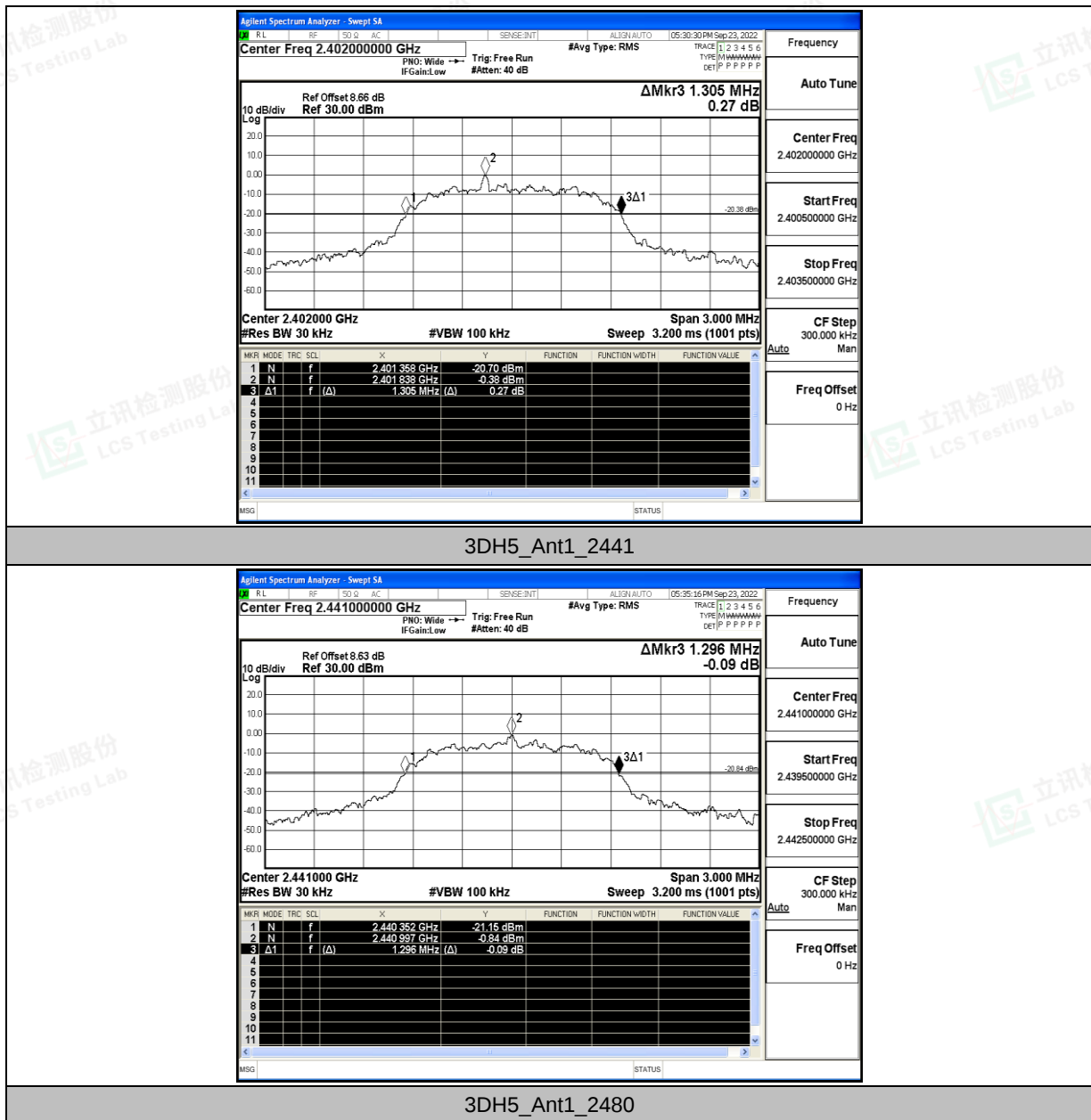


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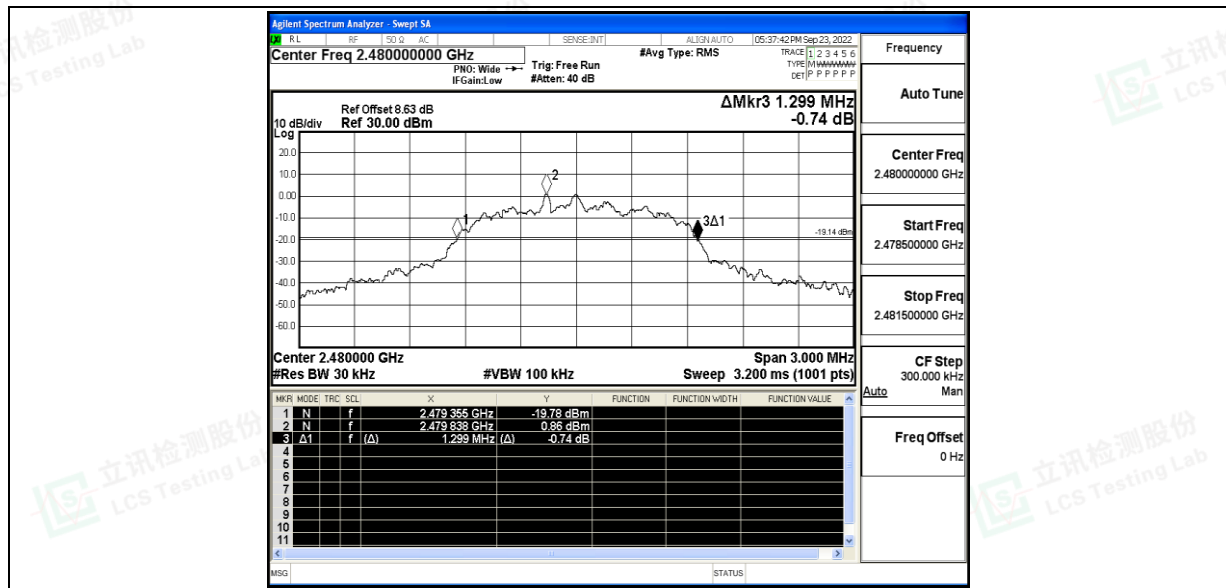


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.52	≤20.97	PASS
		2441	3.23	≤20.97	PASS
		2480	3.61	≤20.97	PASS
2DH5	Ant1	2402	3.27	≤20.97	PASS
		2441	3.94	≤20.97	PASS
		2480	4.31	≤20.97	PASS
3DH5	Ant1	2402	3.61	≤20.97	PASS
		2441	4.27	≤20.97	PASS
		2480	4.69	≤20.97	PASS



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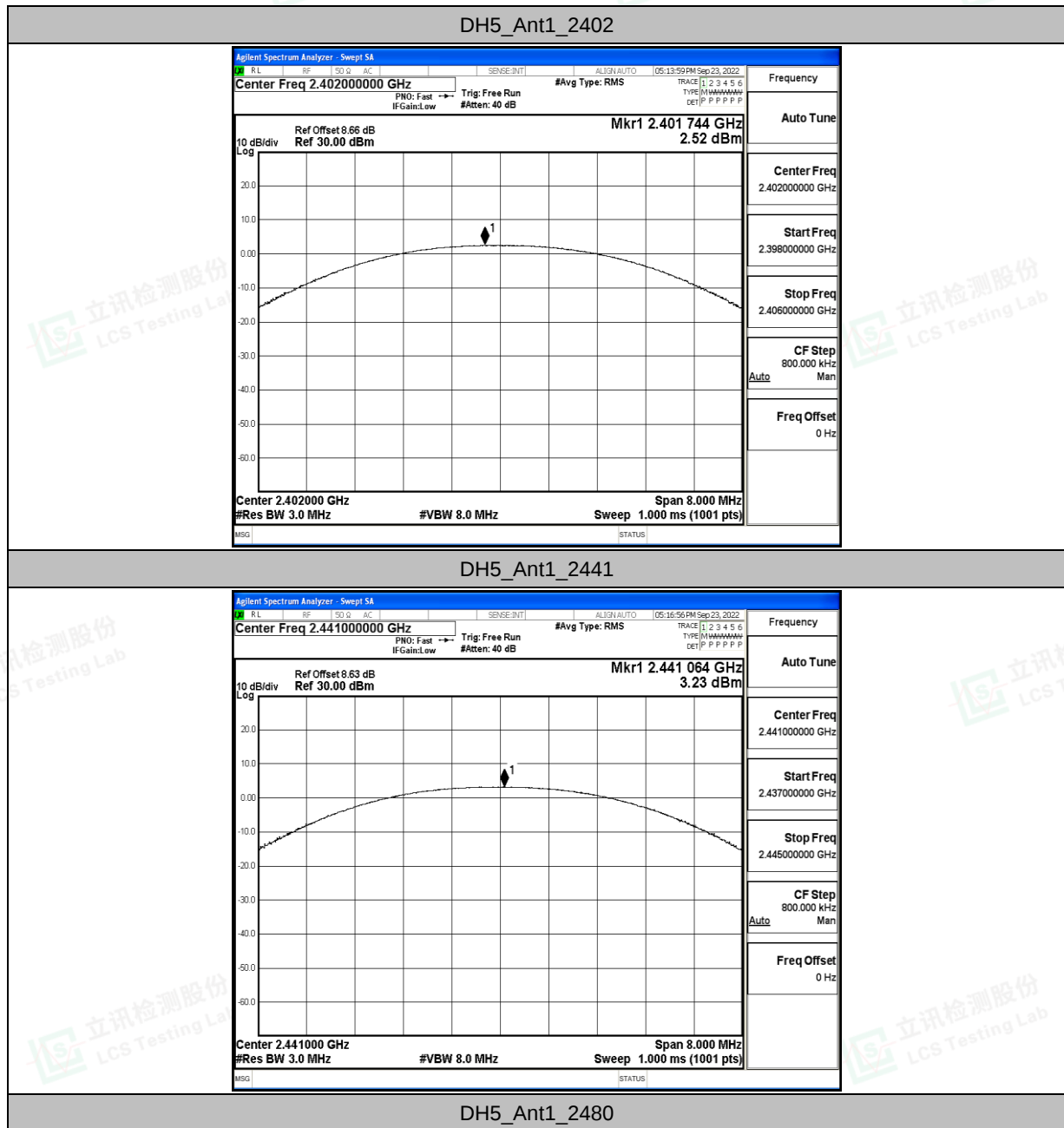
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Test Graphs

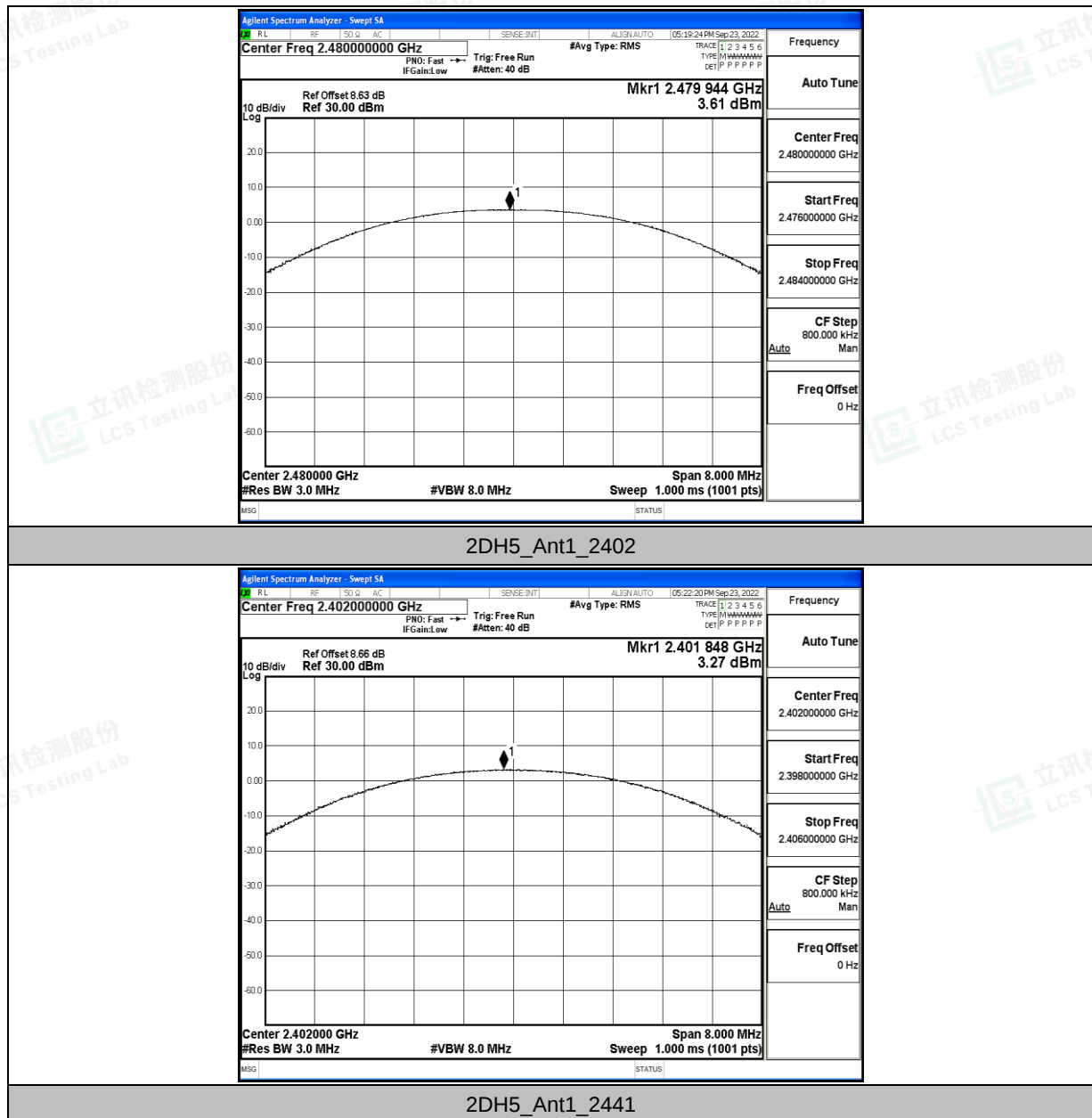


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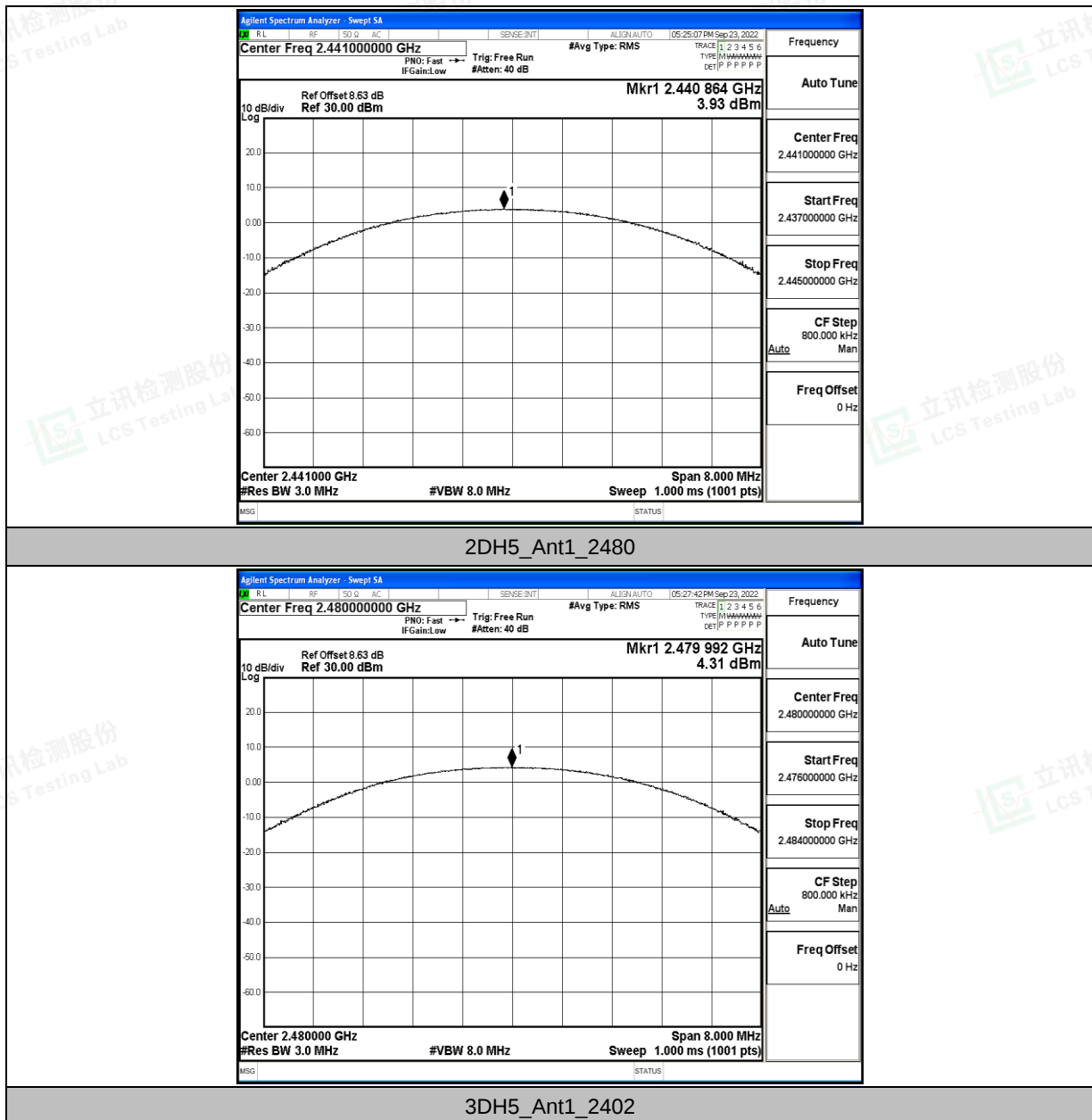


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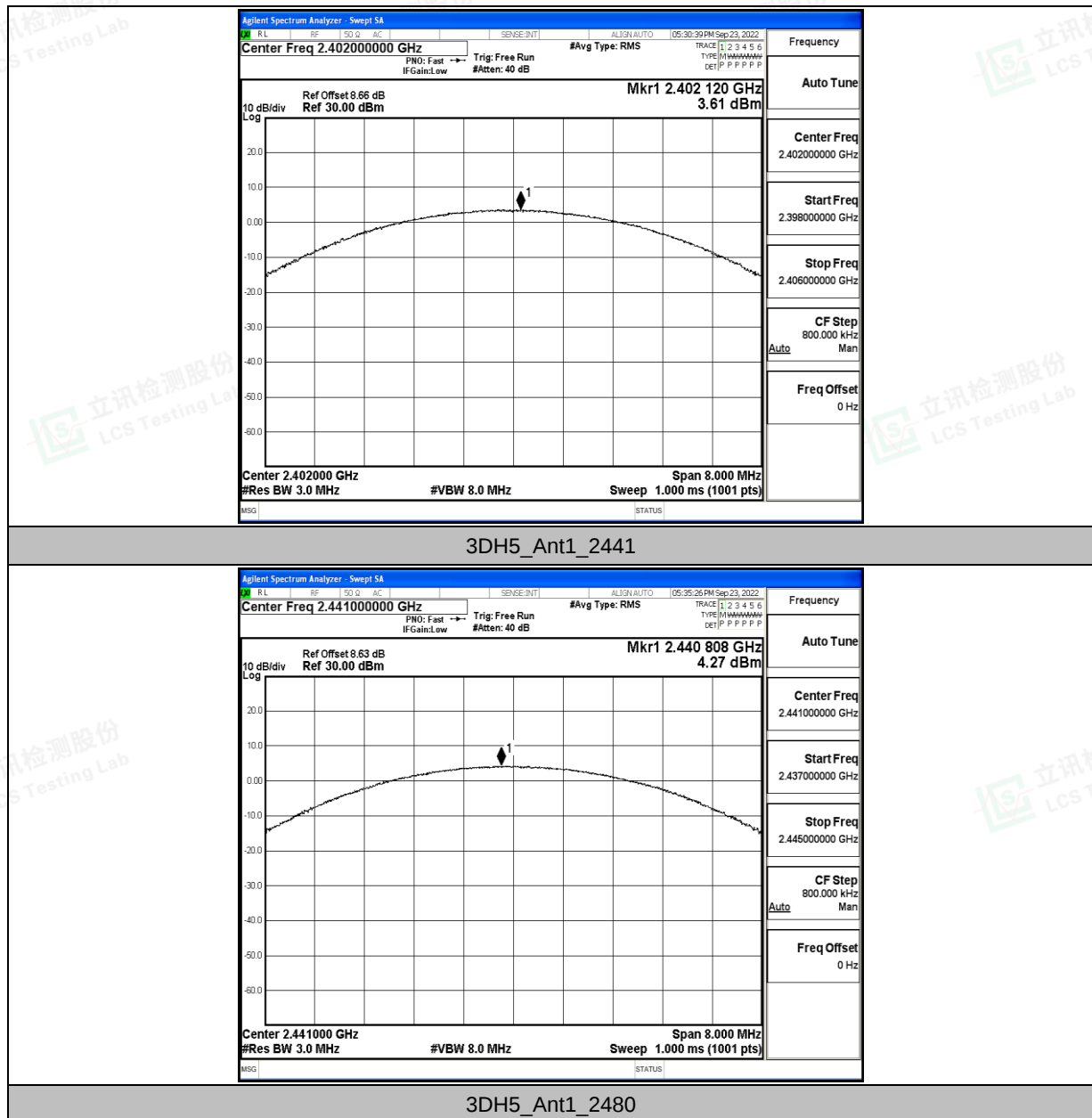


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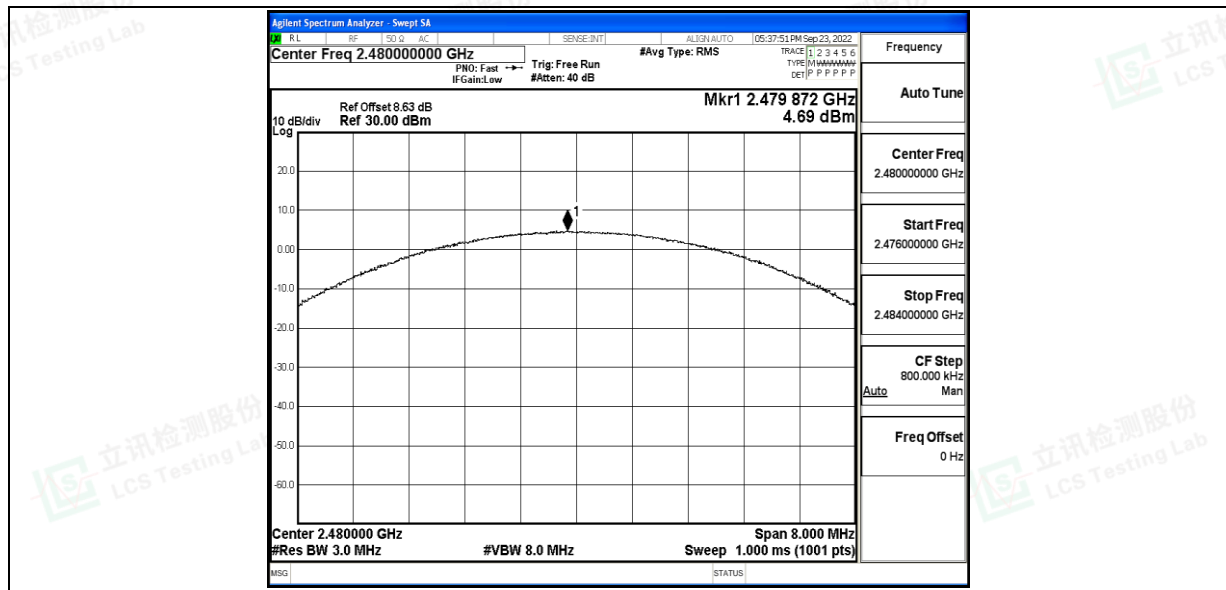


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.006	≥ 0.694	PASS
2DH5	Ant1	Hop	0.996	≥ 0.918	PASS
3DH5	Ant1	Hop	1.134	≥ 0.870	PASS



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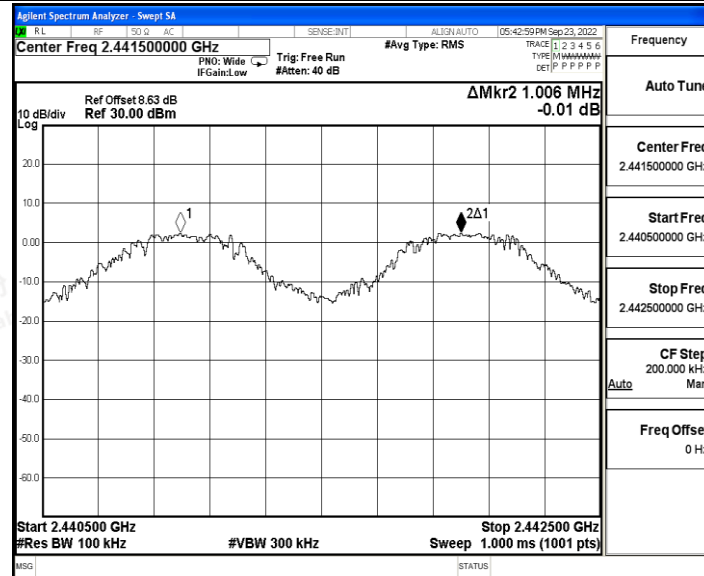
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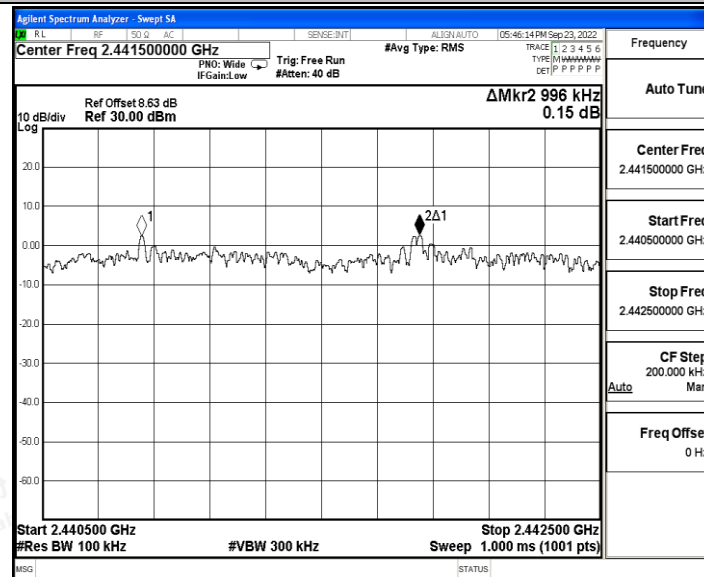


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

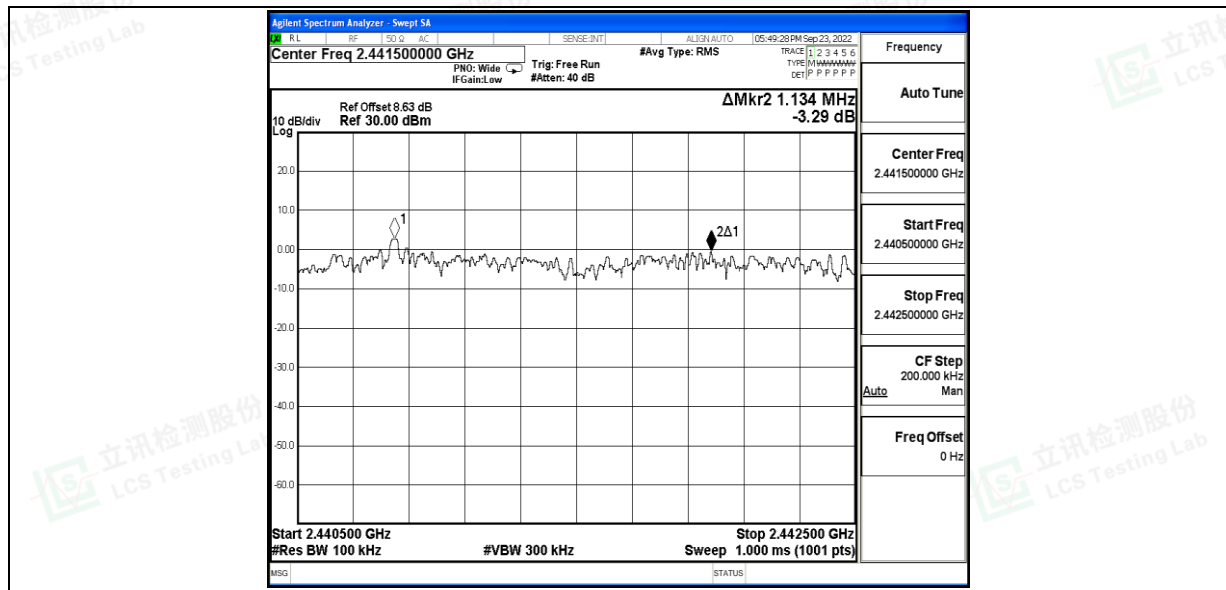


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A.4 Time of occupancy

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	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS



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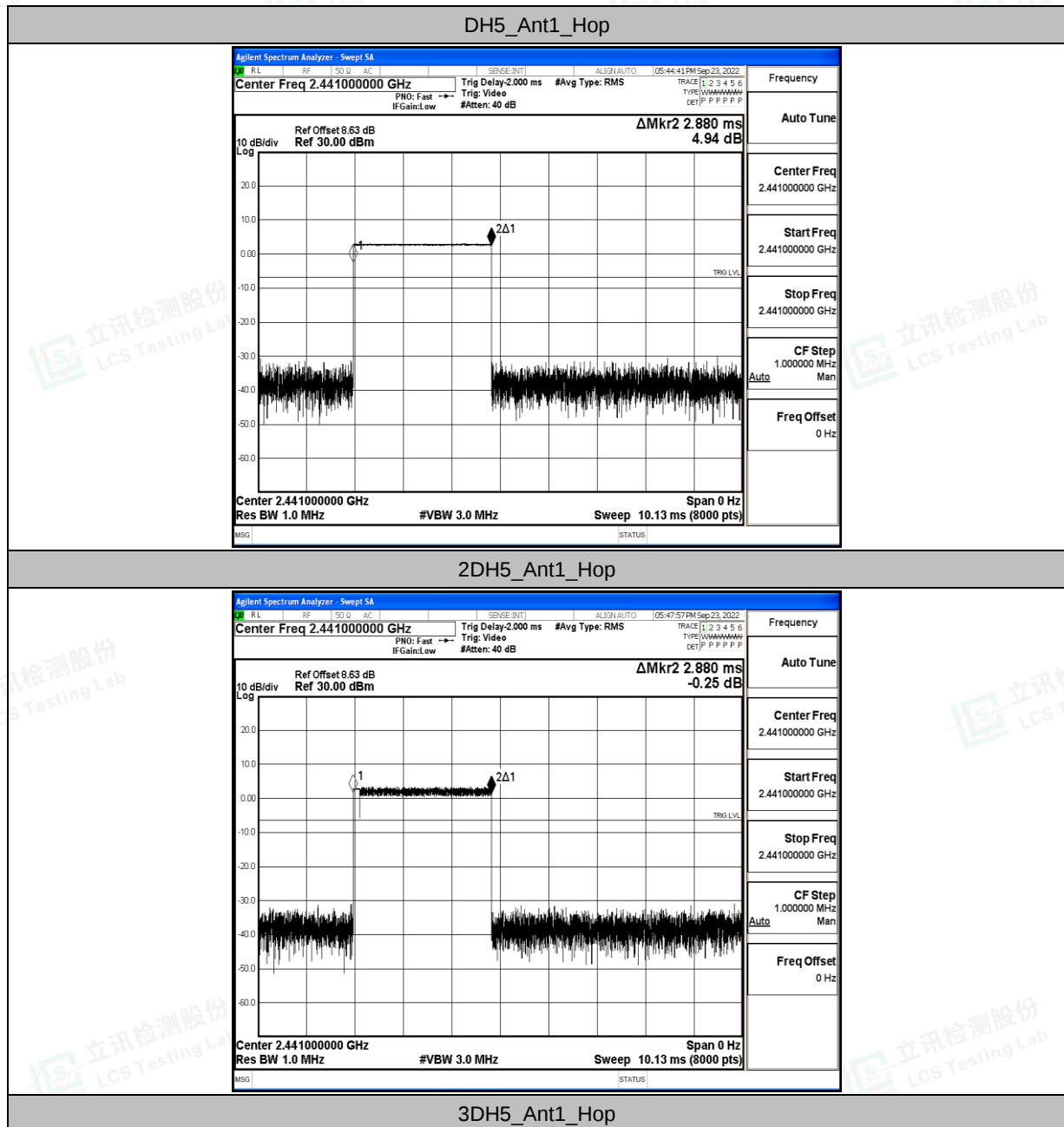
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Test Graphs

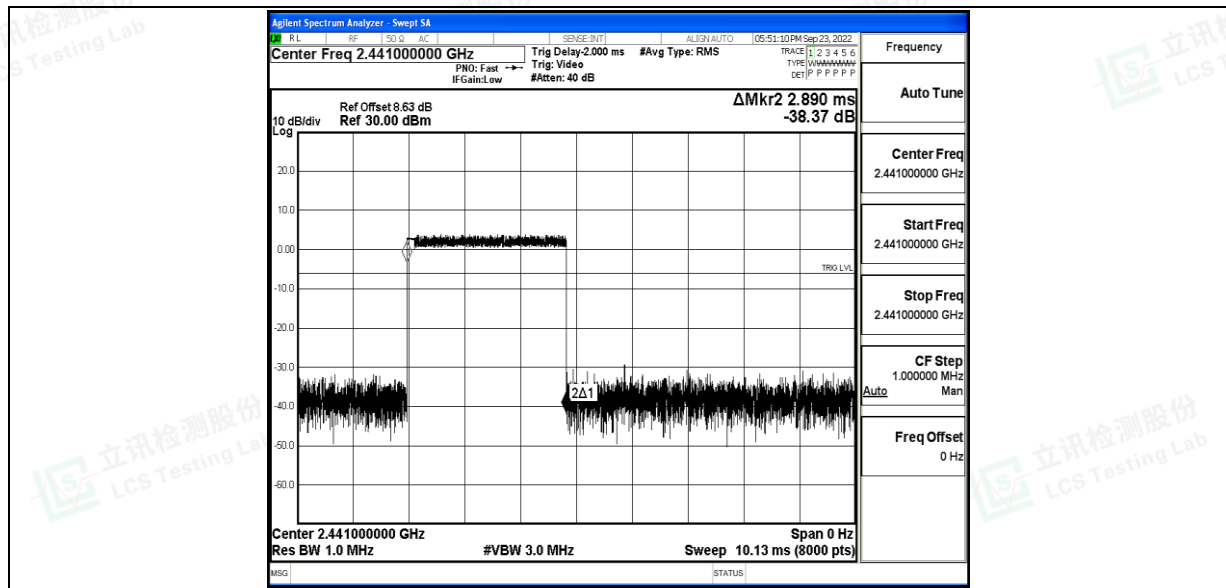


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A.5 Number of hopping channels

Test Result

TestMode	Antenna	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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Test Graphs

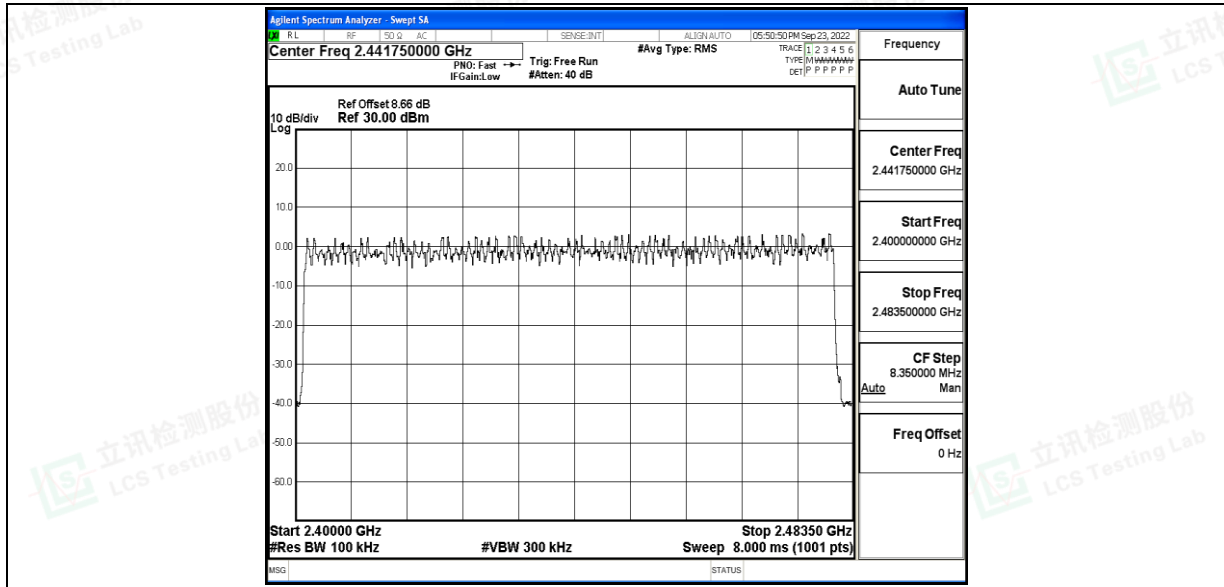


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.73	-48.45	≤ -18.27	PASS
		High	2480	2.58	-49.55	≤ -17.42	PASS
		Low	Hop_2402	1.41	-47.62	≤ -18.59	PASS
		High	Hop_2480	3.22	-43.7	≤ -16.79	PASS
2DH5	Ant1	Low	2402	2.01	-48.22	≤ -17.99	PASS
		High	2480	-1.01	-51.22	≤ -21.01	PASS
		Low	Hop_2402	-1.37	-48.61	≤ -21.37	PASS
		High	Hop_2480	2.61	-44.02	≤ -17.39	PASS
3DH5	Ant1	Low	2402	-2.40	-49.5	≤ -22.4	PASS
		High	2480	1.58	-50.46	≤ -18.43	PASS
		Low	Hop_2402	1.68	-49.14	≤ -18.32	PASS
		High	Hop_2480	1.14	-43.68	≤ -18.86	PASS



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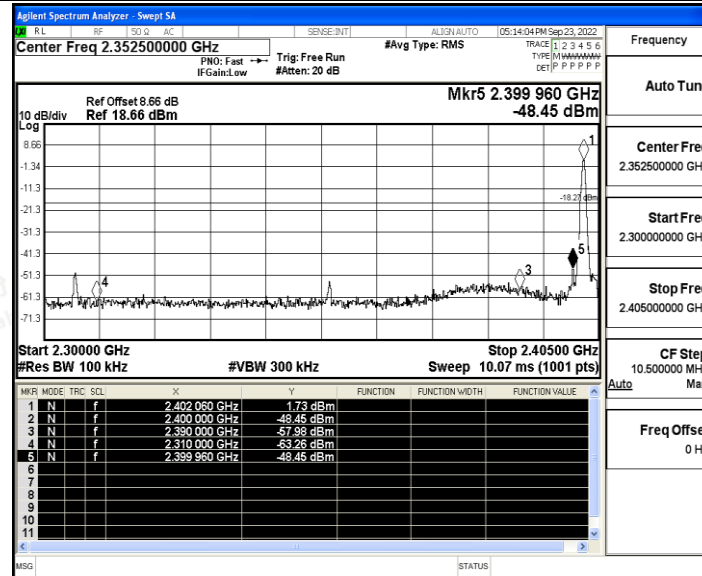
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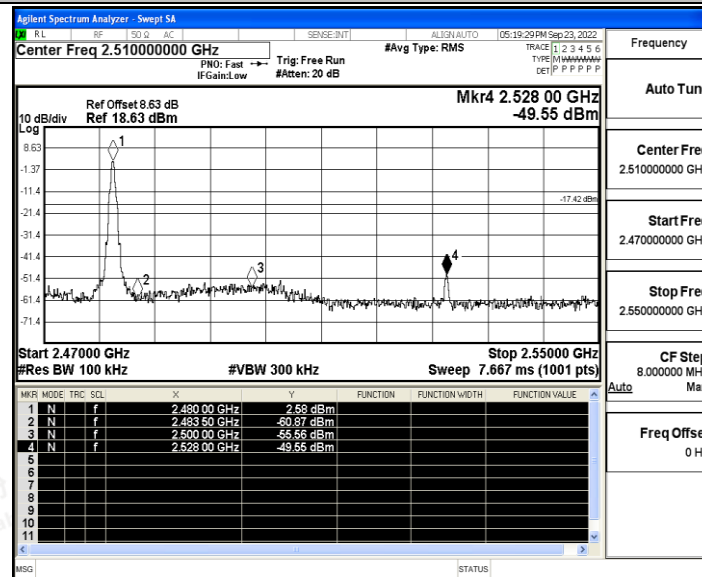


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

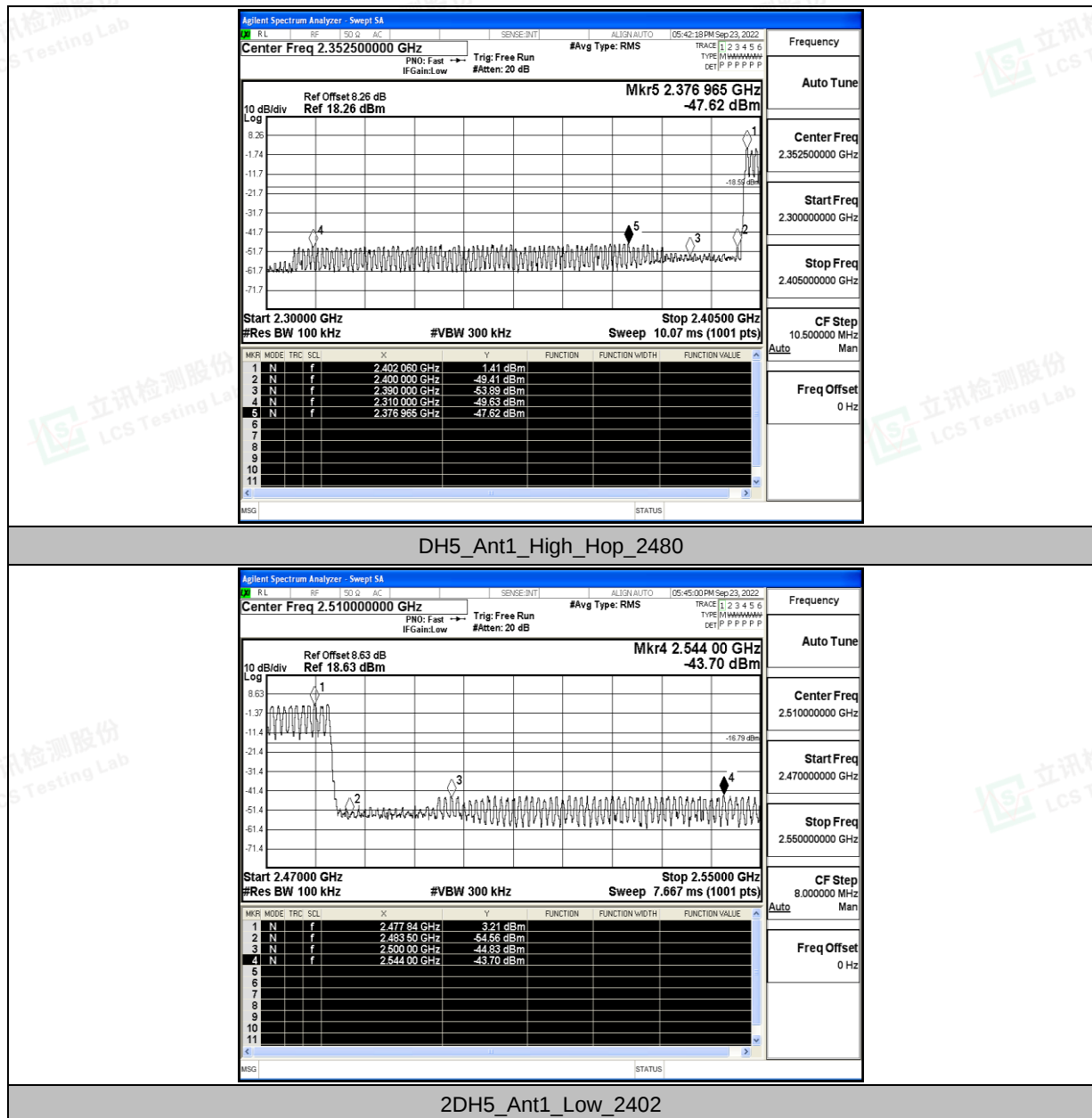


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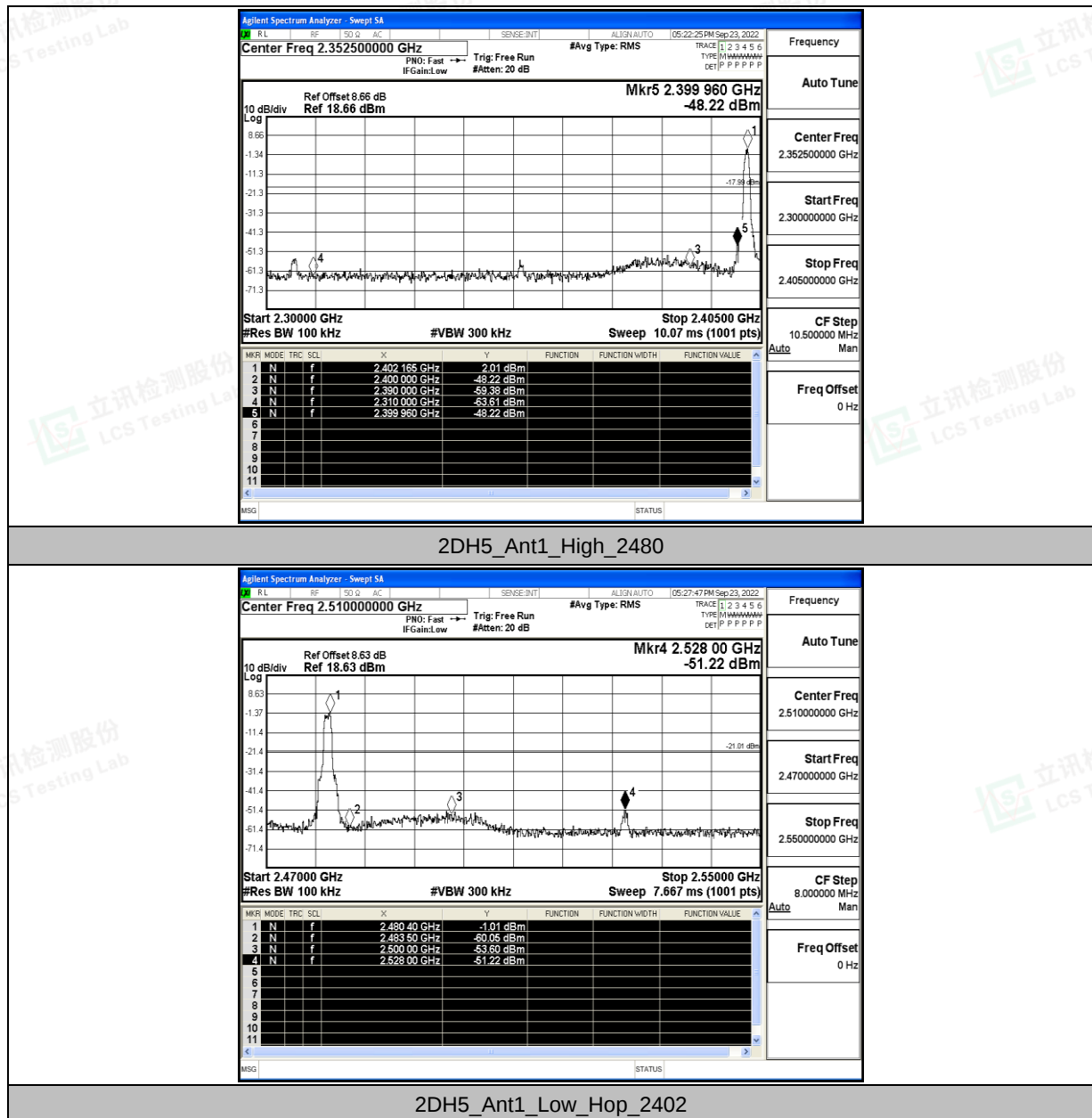


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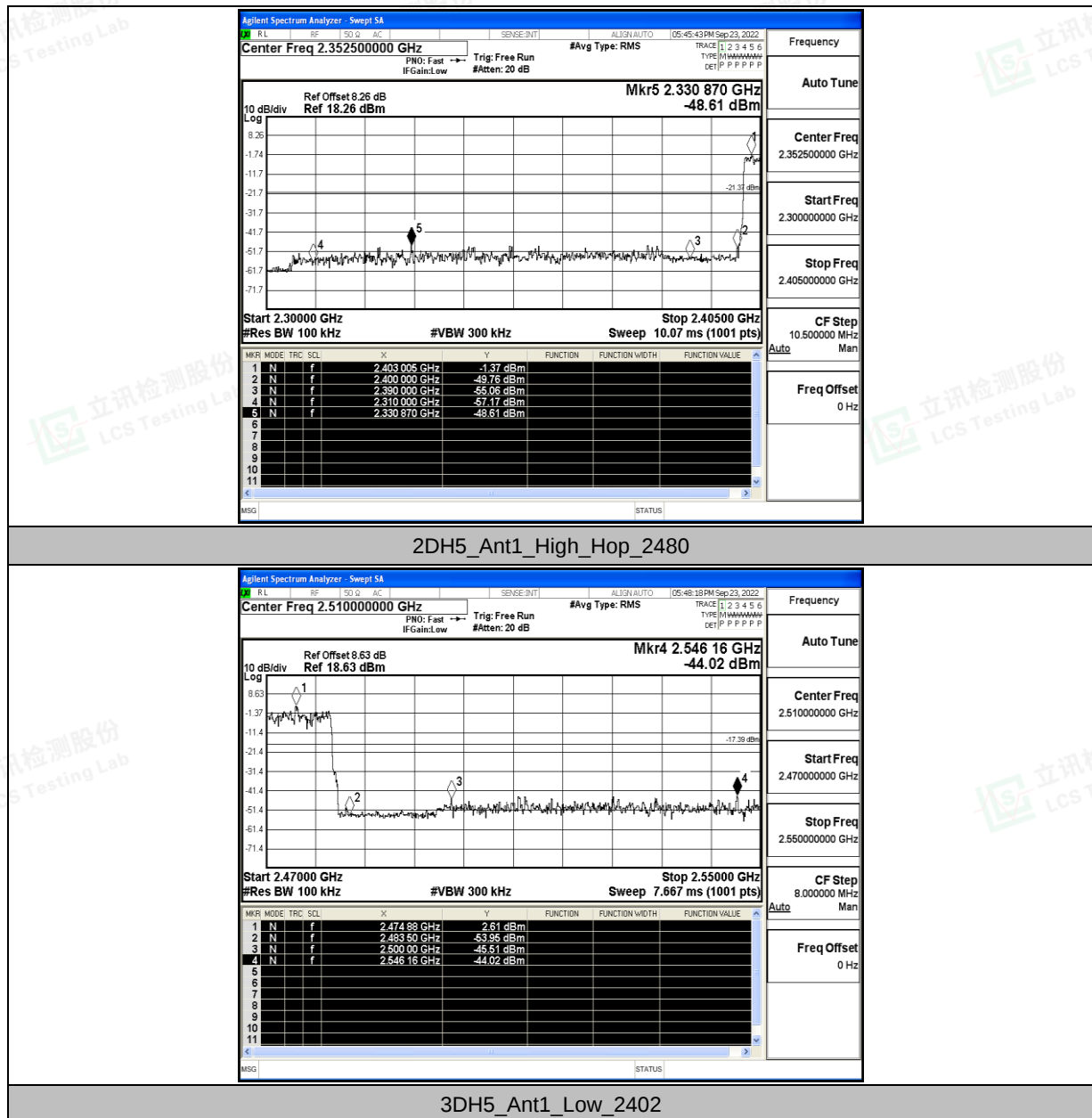


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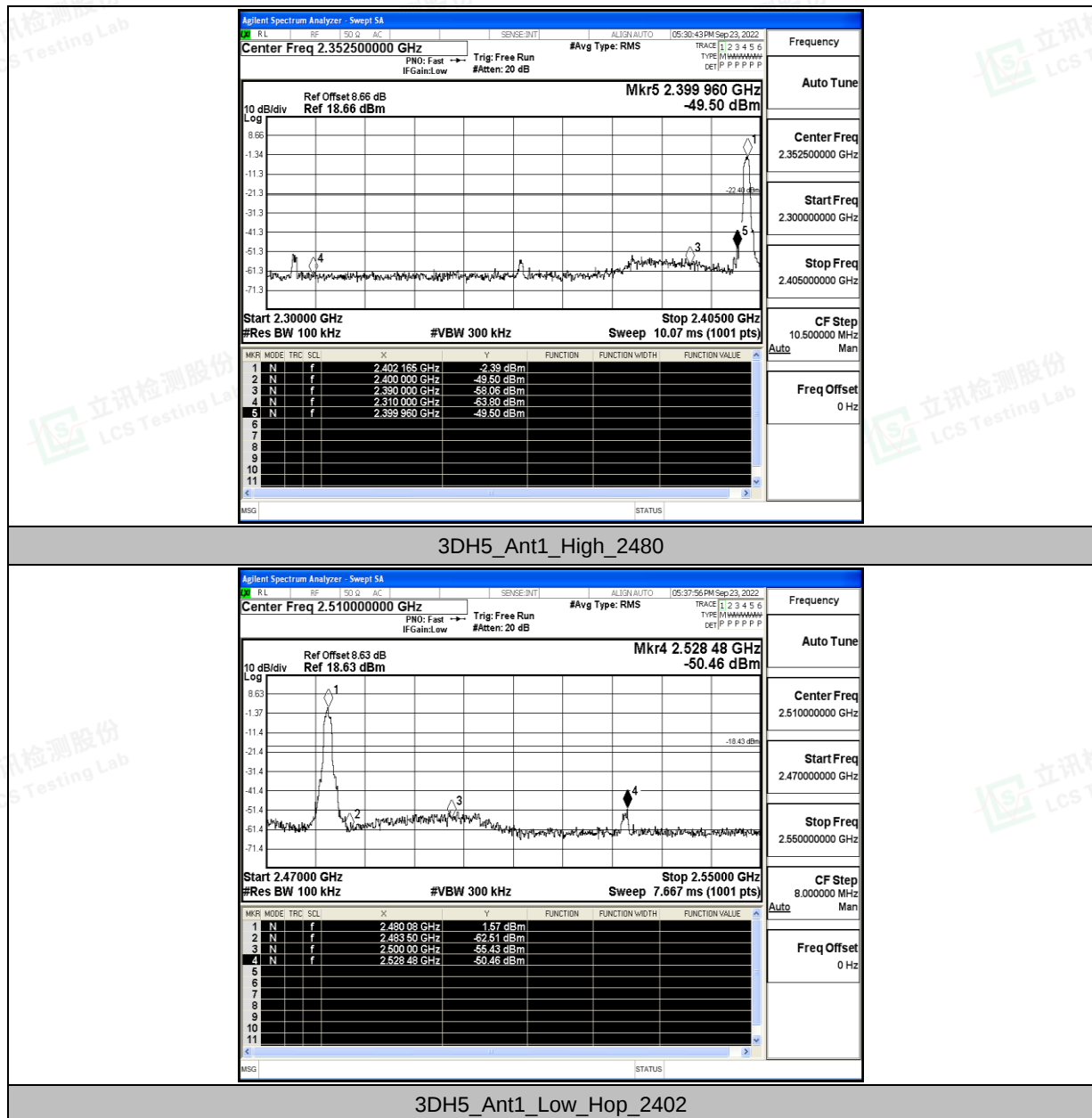


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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.58	1.58	---	PASS
			30~1000	1.58	-60.61	≤ -18.42	PASS
			1000~26500	1.58	-43.97	≤ -18.42	PASS
		2441	Reference	2.25	2.25	---	PASS
			30~1000	2.25	-60.81	≤ -17.75	PASS
			1000~26500	2.25	-44.26	≤ -17.75	PASS
		2480	Reference	2.64	2.64	---	PASS
			30~1000	2.64	-60.59	≤ -17.36	PASS
			1000~26500	2.64	-44.51	≤ -17.36	PASS
2DH5	Ant1	2402	Reference	-1.95	-1.95	---	PASS
			30~1000	-1.95	-60.64	≤ -21.95	PASS
			1000~26500	-1.95	-46.19	≤ -21.95	PASS
		2441	Reference	-1.27	-1.27	---	PASS
			30~1000	-1.27	-60.96	≤ -21.27	PASS
			1000~26500	-1.27	-46.45	≤ -21.27	PASS
		2480	Reference	1.99	1.99	---	PASS
			30~1000	1.99	-60.65	≤ -18.01	PASS
			1000~26500	1.99	-46.01	≤ -18.01	PASS
3DH5	Ant1	2402	Reference	-0.86	-0.86	---	PASS
			30~1000	-0.86	-60.74	≤ -20.86	PASS
			1000~26500	-0.86	-46.34	≤ -20.86	PASS
		2441	Reference	2.51	2.51	---	PASS
			30~1000	2.51	-60.93	≤ -17.49	PASS
			1000~26500	2.51	-46.11	≤ -17.49	PASS
		2480	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-60.68	≤ -21.02	PASS
			1000~26500	-1.02	-45.72	≤ -21.02	PASS



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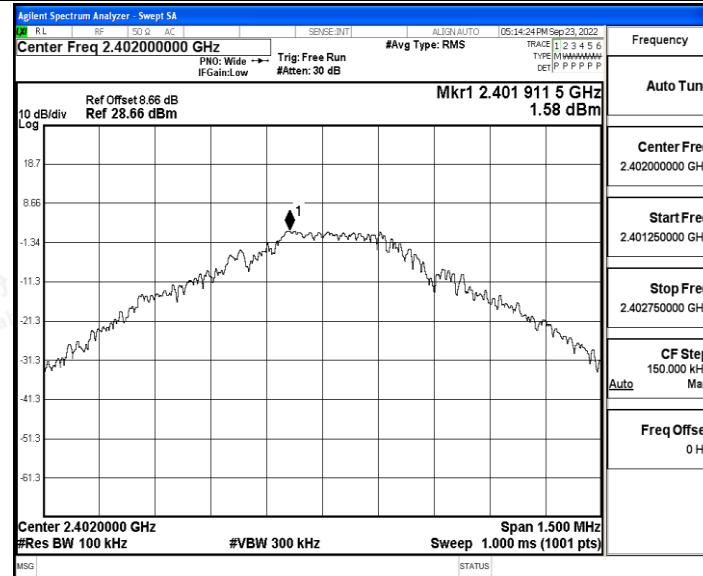
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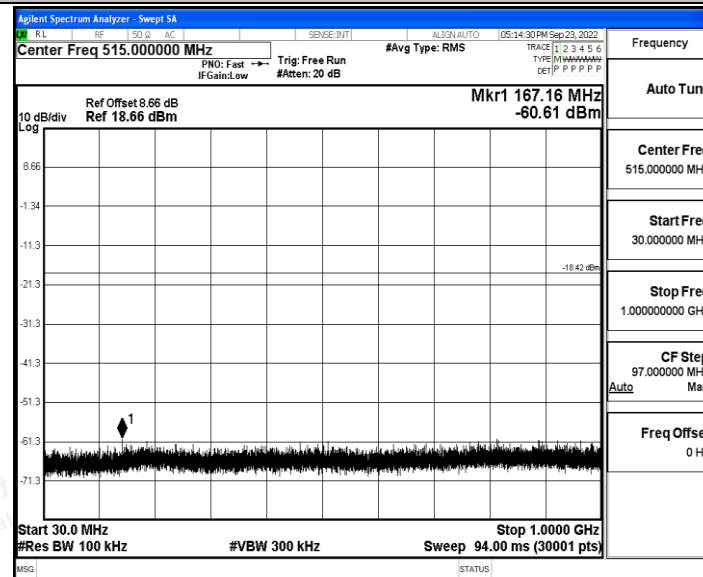


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

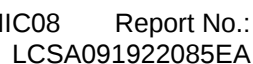


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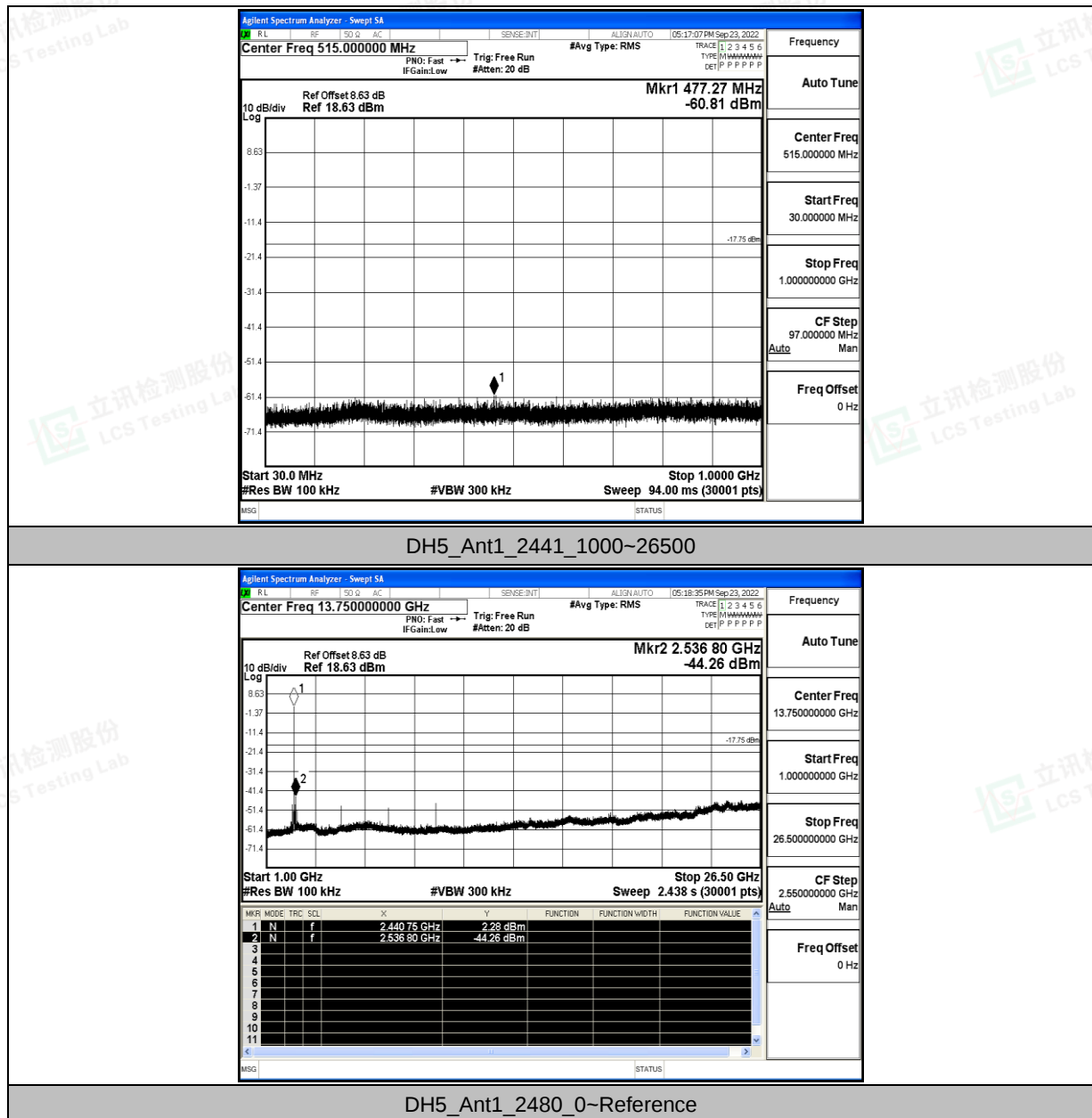
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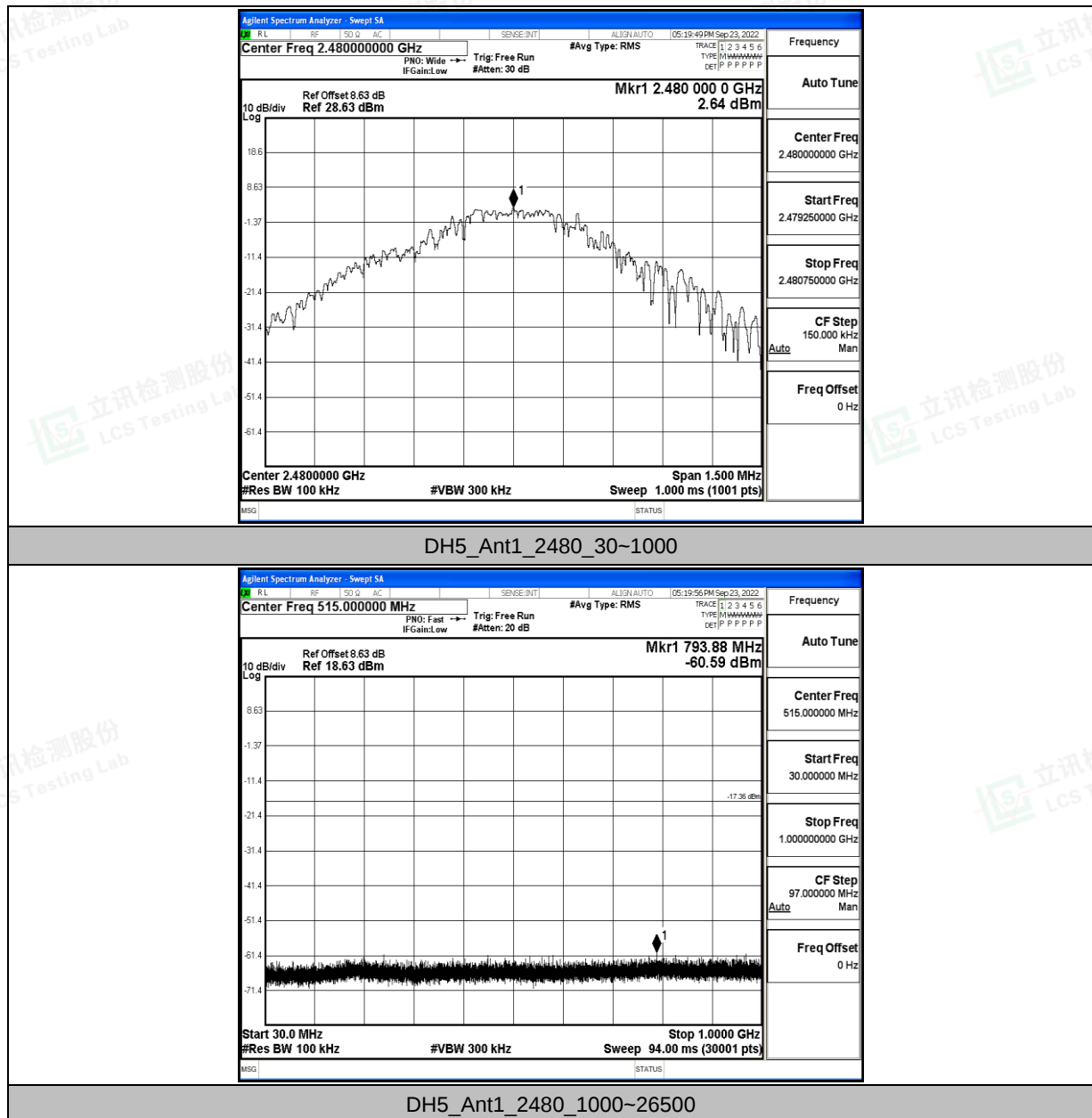


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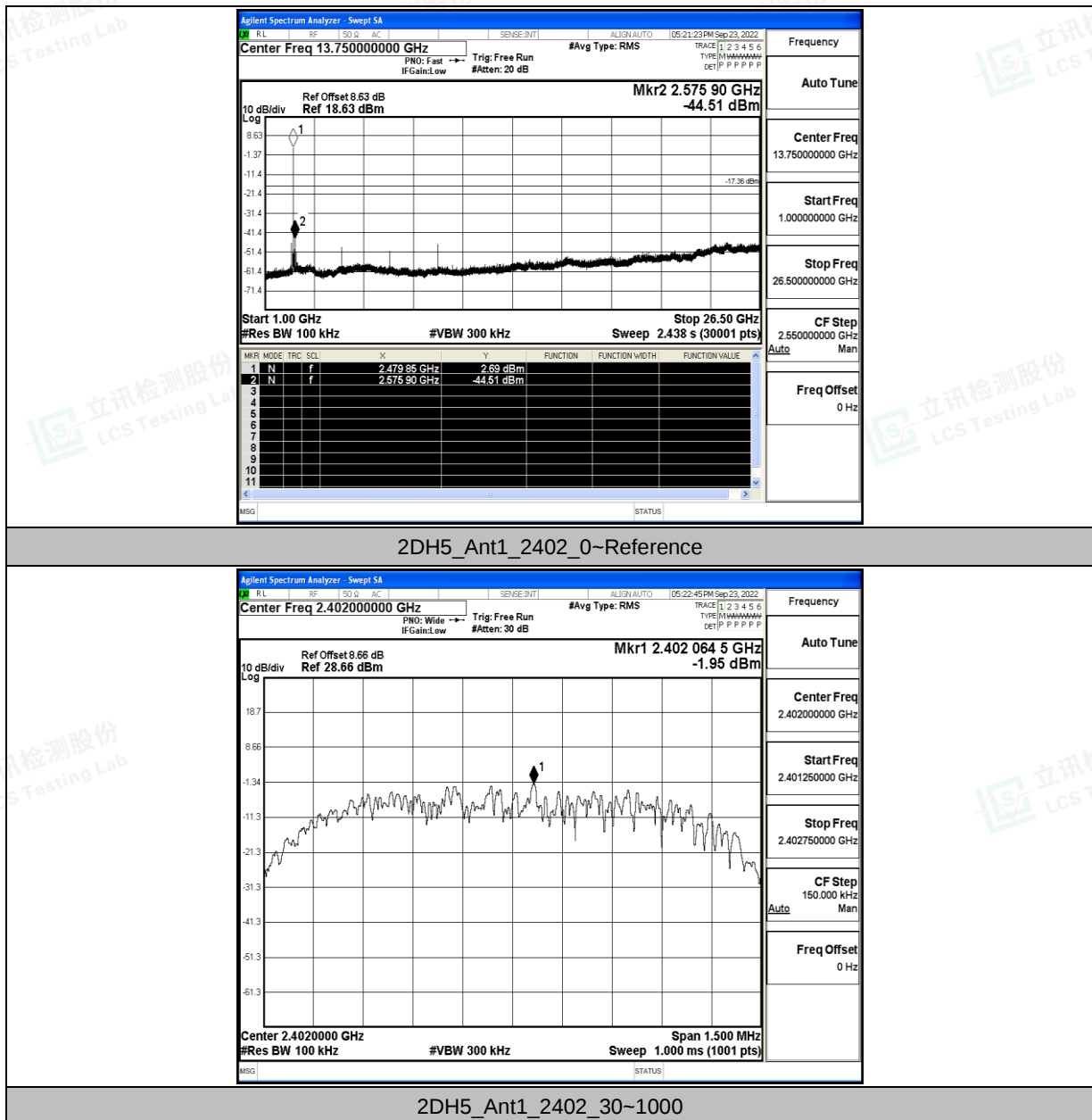


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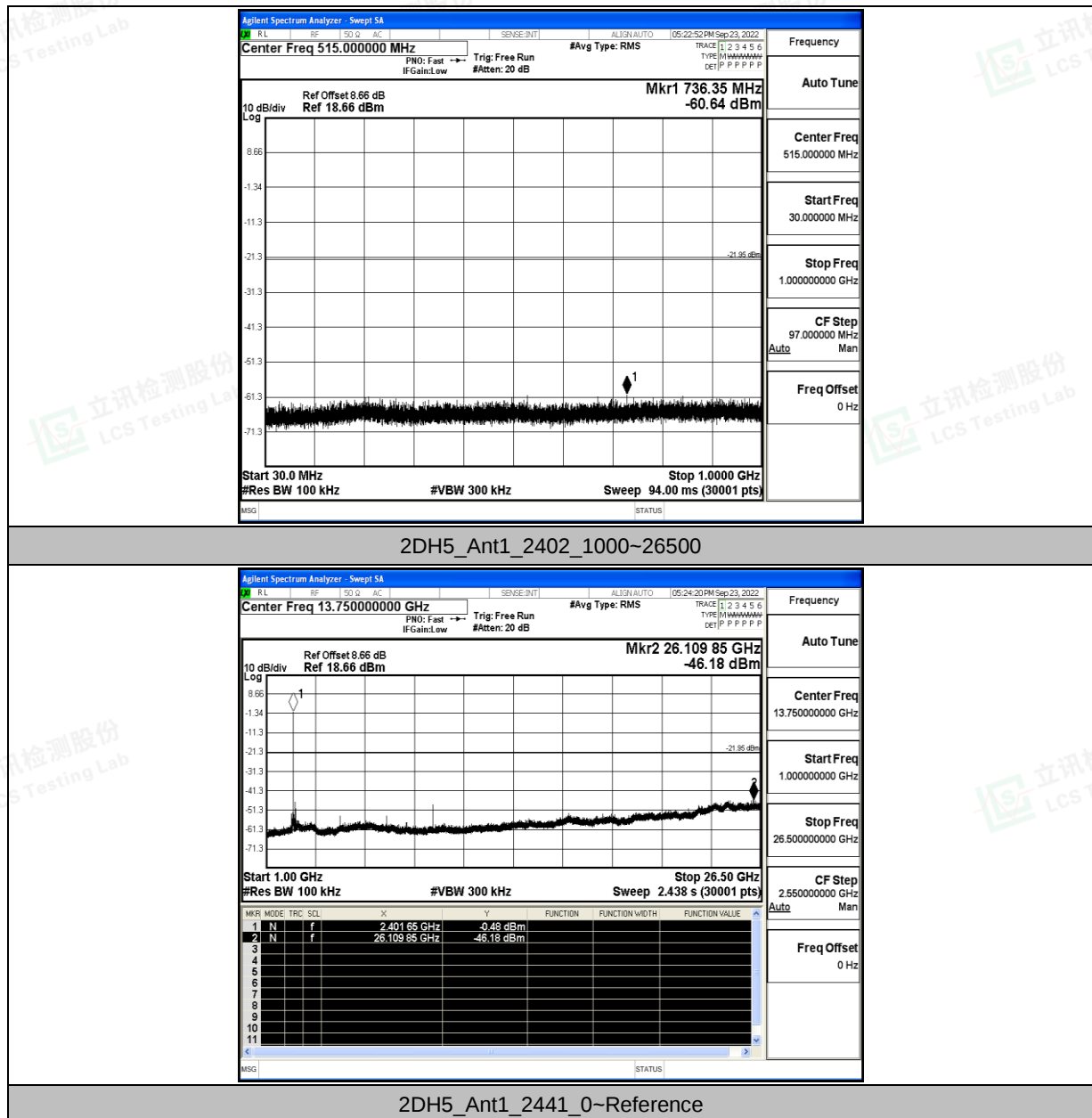


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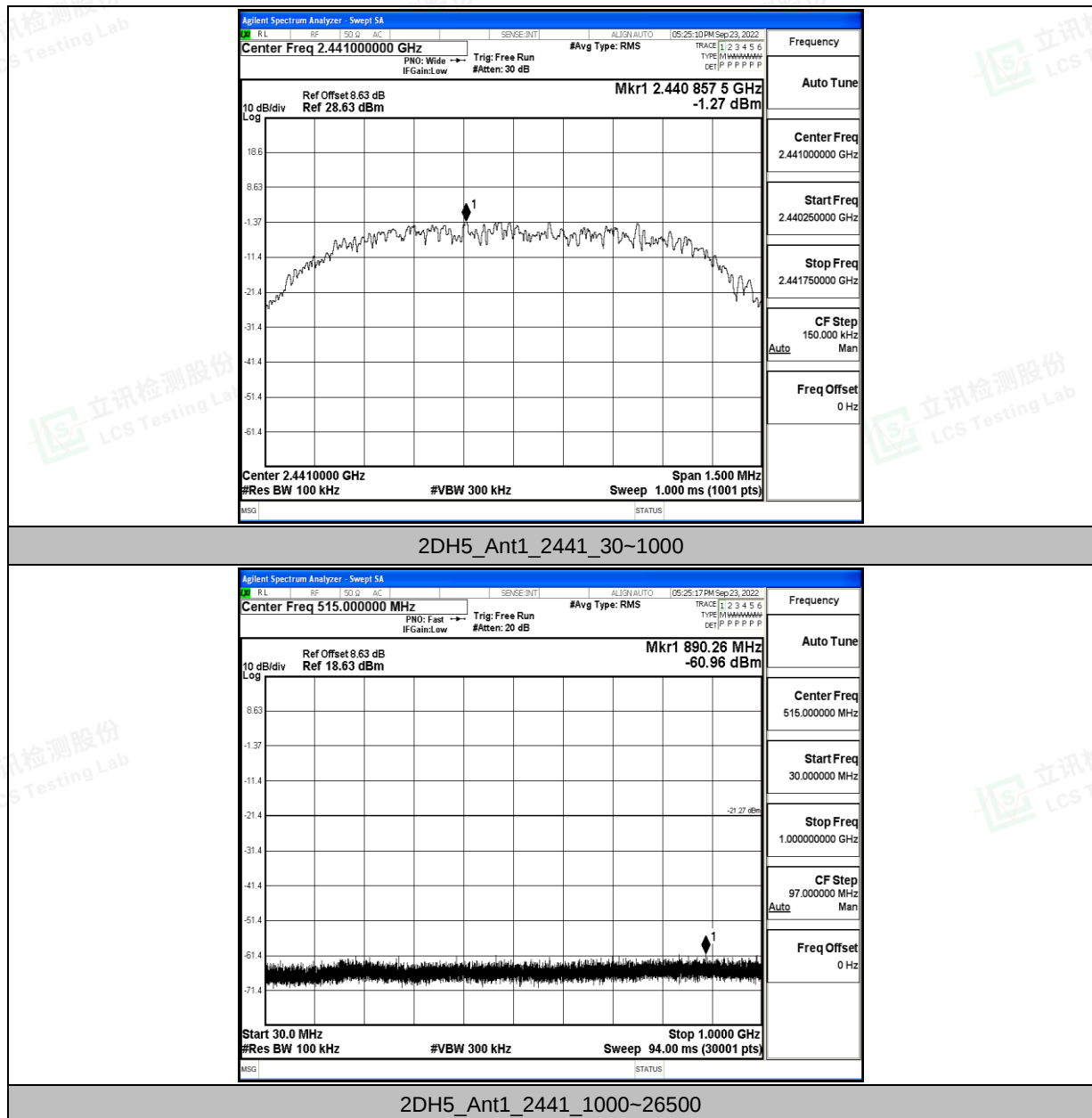


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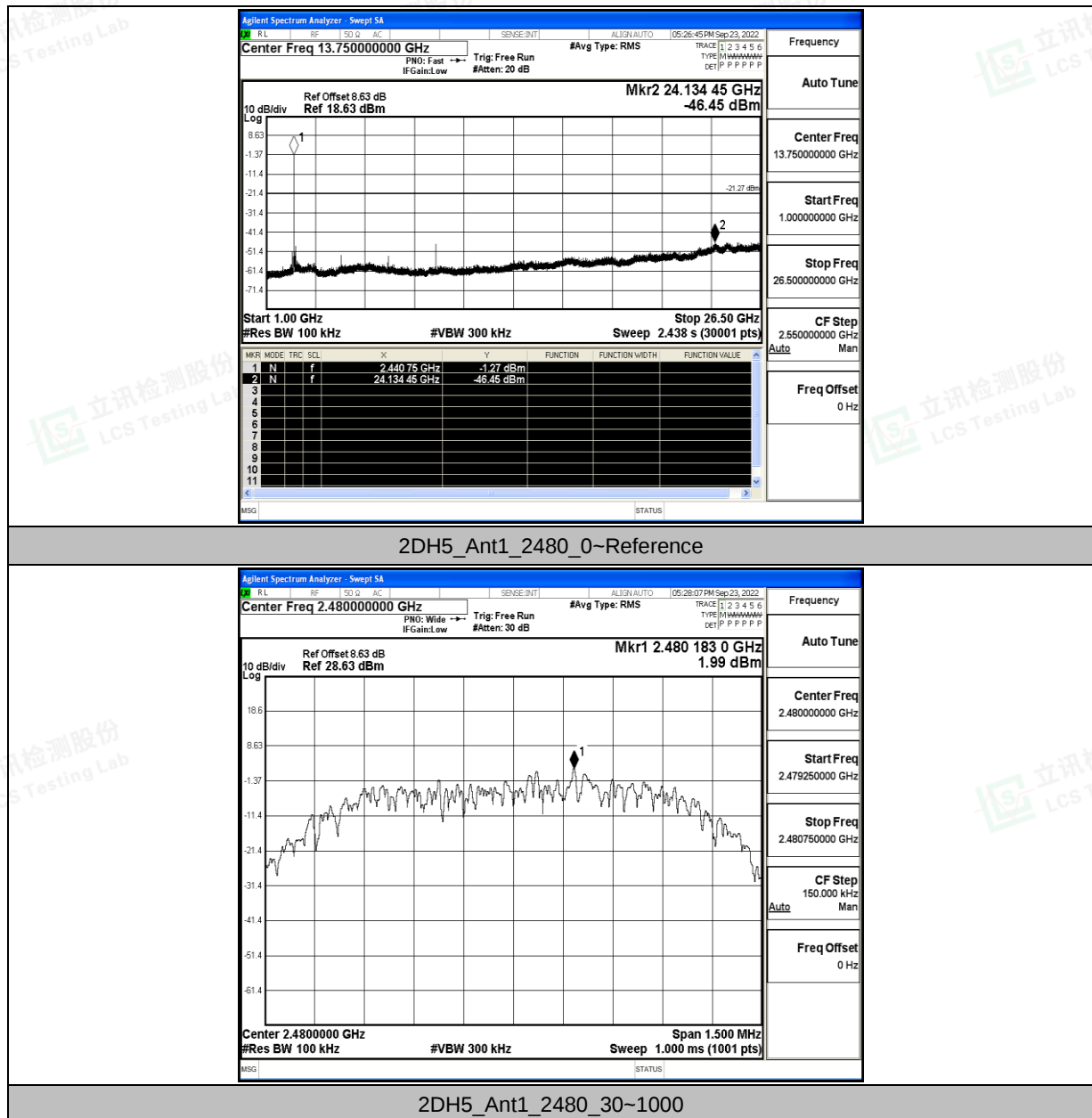


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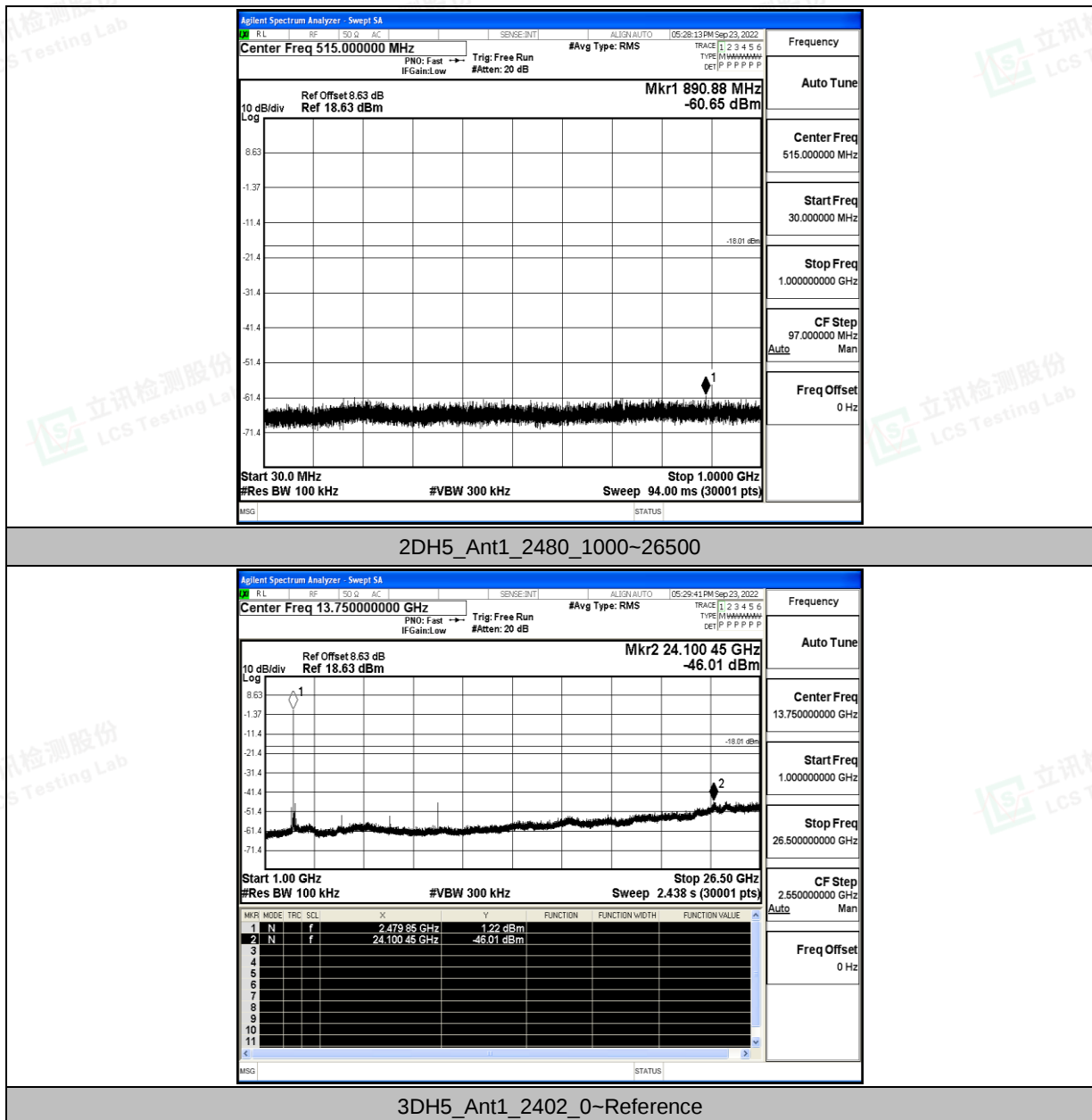


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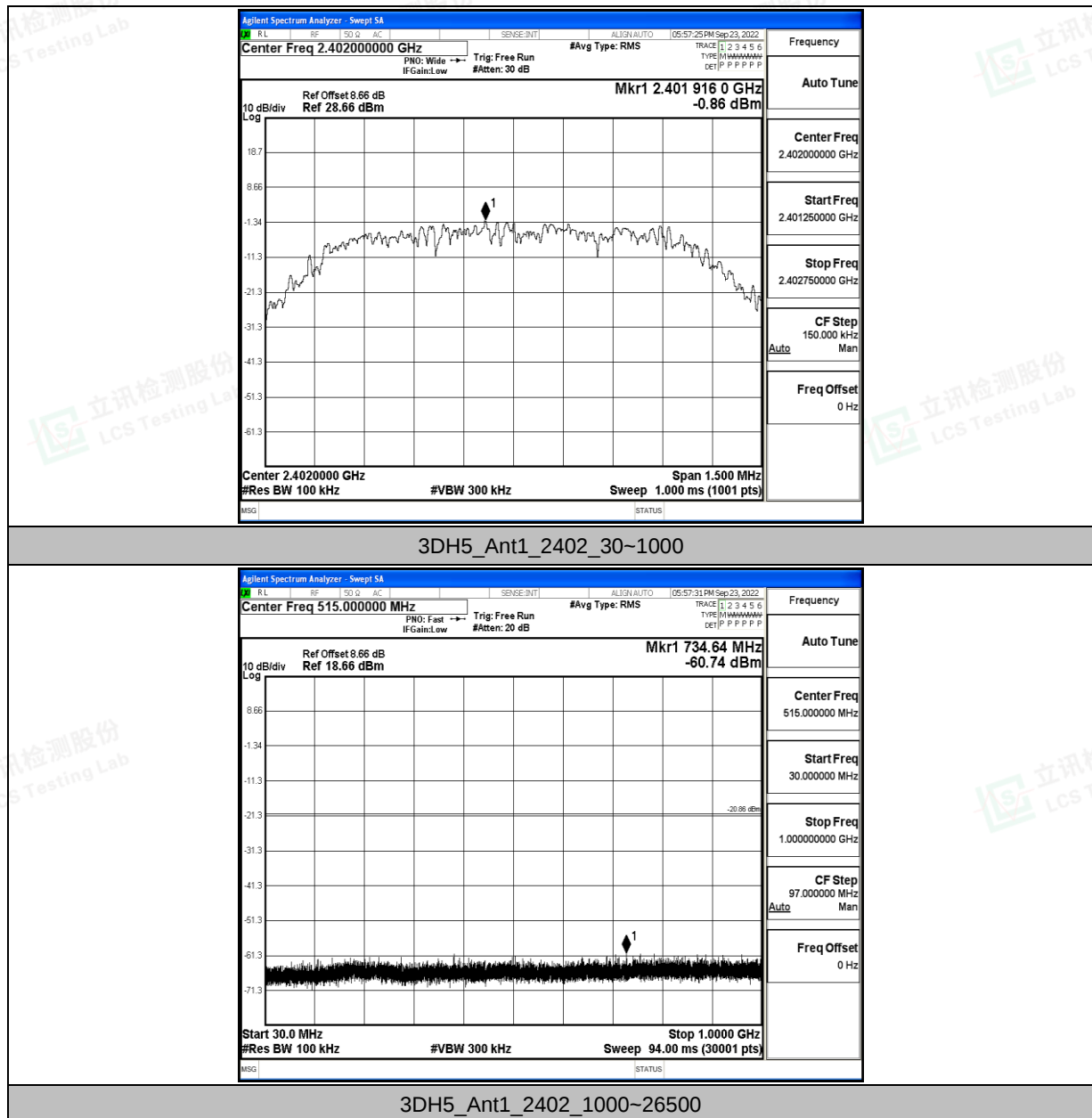


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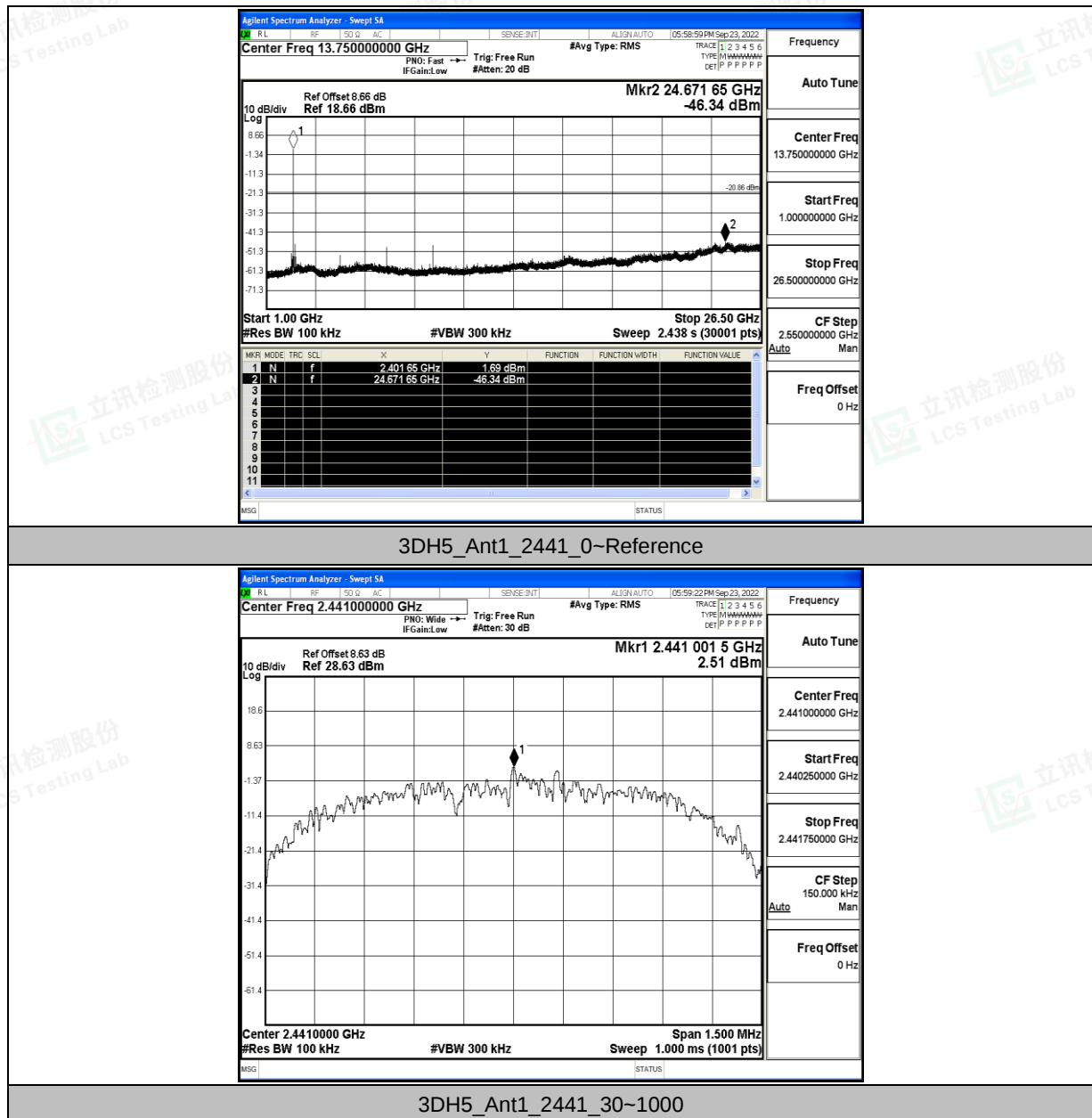


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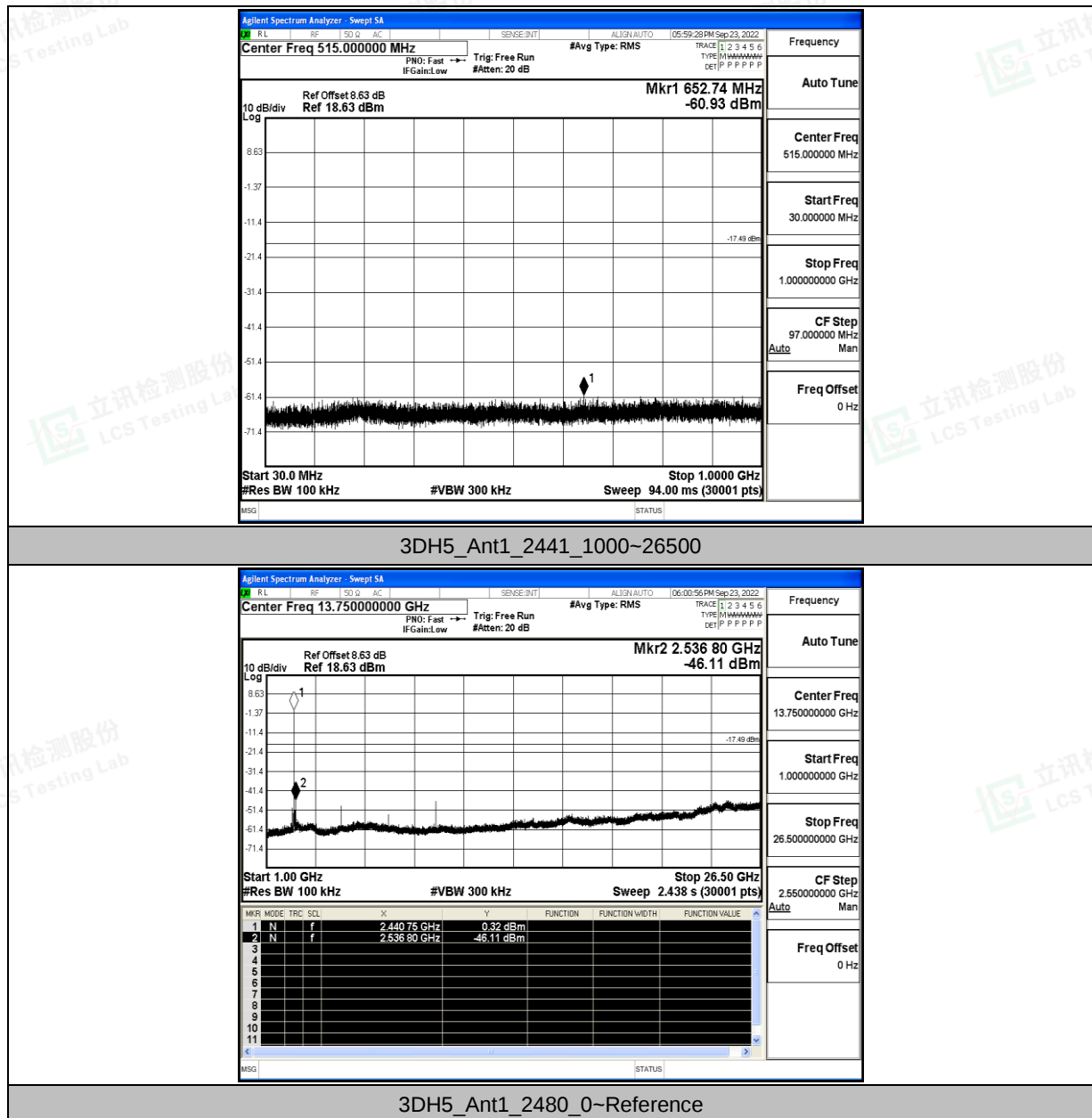


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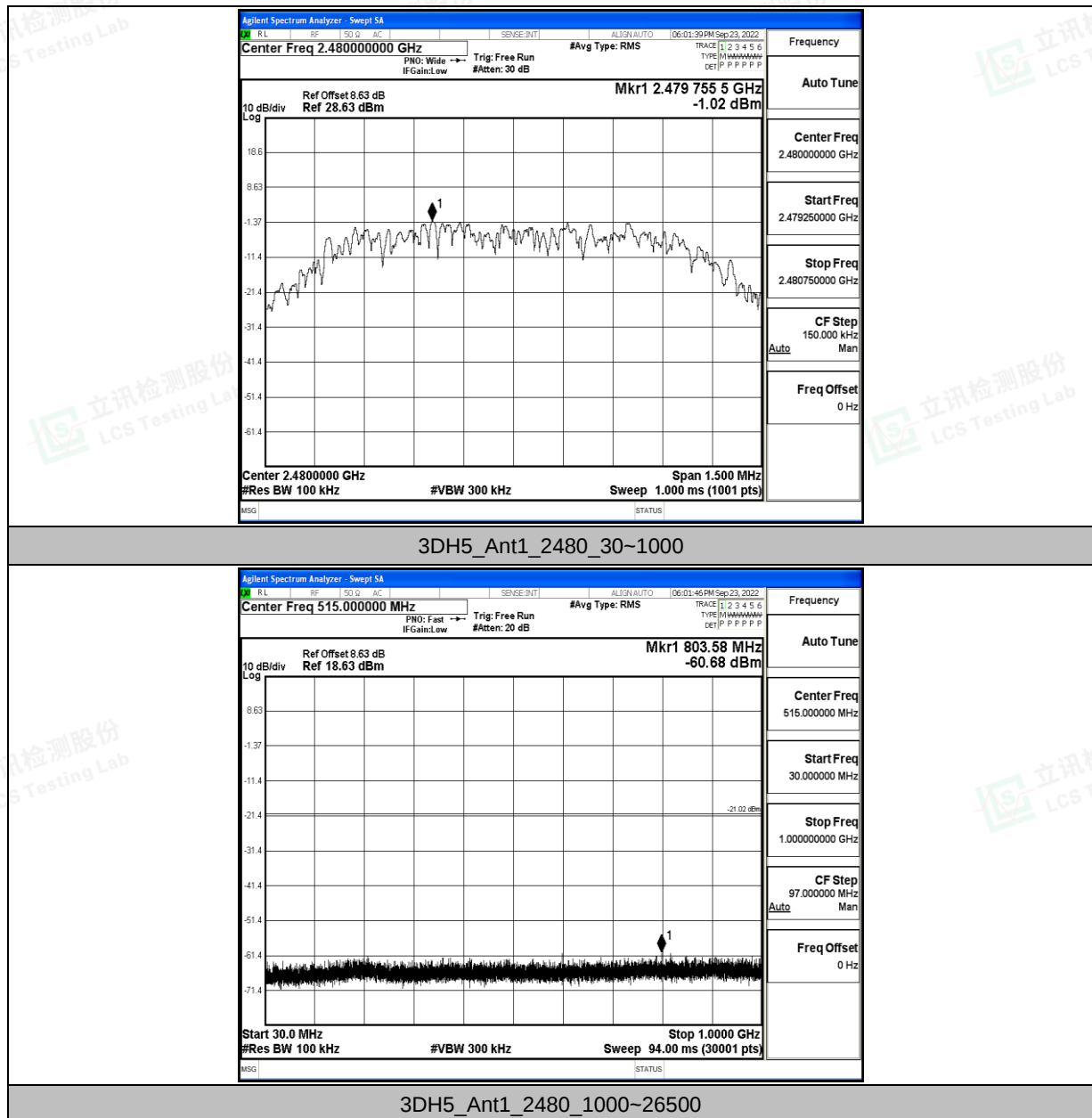


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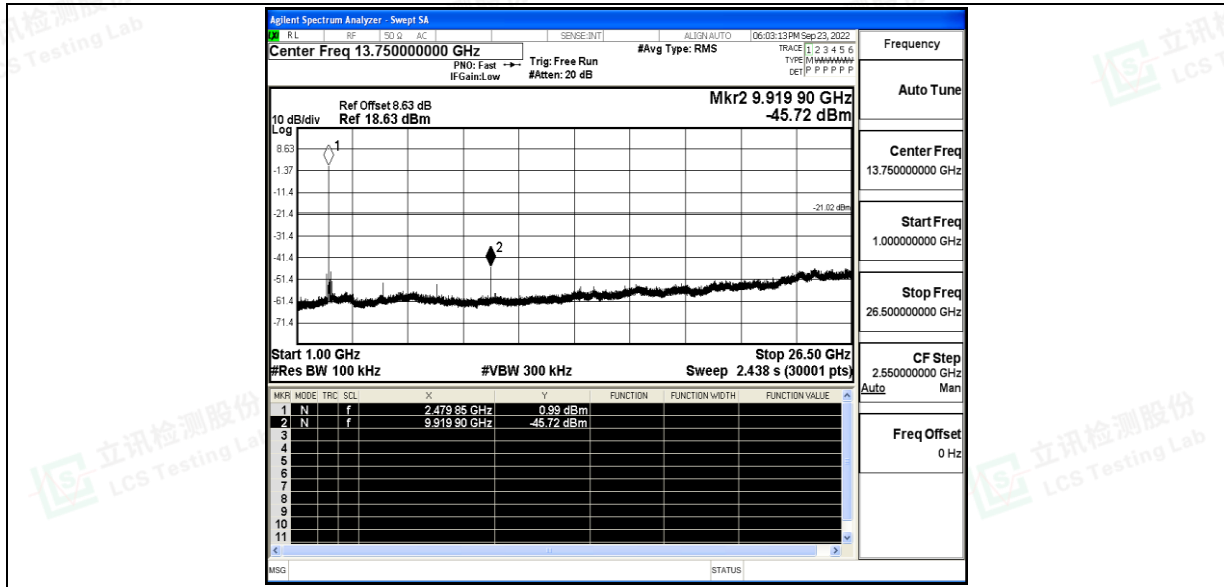


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A.8 Emissions in Restricted Bands

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	-58.18	≤-41.20	37.02	≤54	PASS
				AV	2382.005	-50.67	≤-41.20	44.53	≤54	PASS
				AV	2390.000	-51.9	≤-41.20	43.30	≤54	PASS
				Peak	2310.000	-53.68	≤-21.20	41.52	≤74	PASS
				Peak	2389.565	-42.25	≤-21.20	52.95	≤74	PASS
				Peak	2390.000	-45.31	≤-21.20	49.89	≤74	PASS
		High	2480	AV	2483.500	-51.66	≤-41.20	43.54	≤54	PASS
				AV	2499.600	-49.6	≤-41.20	45.60	≤54	PASS
				AV	2500.000	-49.64	≤-41.20	45.56	≤54	PASS
				Peak	2483.500	-48.59	≤-21.20	46.61	≤74	PASS
				Peak	2498.000	-41.23	≤-21.20	53.97	≤74	PASS
				Peak	2500.000	-44.61	≤-21.20	50.59	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-44.13	≤-21.20	51.07	≤74	PASS
				Peak	2390.000	-41.33	≤-21.20	53.87	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-41.8	≤-21.20	53.40	≤74	PASS
				Peak	2499.120	-39.7	≤-21.20	55.50	≤74	PASS
				Peak	2500.000	-40.98	≤-21.20	54.22	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.23	≤-41.20	36.97	≤54	PASS
				AV	2383.475	-50.51	≤-41.20	44.69	≤54	PASS
				AV	2390.000	-51.59	≤-41.20	43.61	≤54	PASS
				Peak	2310.000	-51.91	≤-21.20	43.29	≤74	PASS
				Peak	2385.365	-41.75	≤-21.20	53.45	≤74	PASS
				Peak	2390.000	-45.83	≤-21.20	49.37	≤74	PASS
		High	2480	AV	2483.500	-50.99	≤-41.20	44.21	≤54	PASS
				AV	2499.360	-49.18	≤-41.20	46.02	≤54	PASS
				AV	2500.000	-49.22	≤-41.20	45.98	≤54	PASS
				Peak	2483.500	-48.62	≤-21.20	46.58	≤74	PASS
				Peak	2497.360	-40.92	≤-21.20	54.28	≤74	PASS
				Peak	2500.000	-41.87	≤-21.20	53.33	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-46.32	≤-21.20	48.88	≤74	PASS
				Peak	2385.260	-41.78	≤-21.20	53.42	≤74	PASS
				Peak	2390.000	-43.12	≤-21.20	52.08	≤74	PASS
		High	Hop_24	Peak	2483.500	-40.76	≤-21.20	54.44	≤74	PASS



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3DH5	Ant1		80	Peak	2492.640	-39.51	≤ -21.20	55.69	≤ 74	PASS
				Peak	2500.000	-41.14	≤ -21.20	54.06	≤ 74	PASS
		Low	2402	AV	2310.000	-58.19	≤ -41.20	37.01	≤ 54	PASS
				AV	2381.165	-50.48	≤ -41.20	44.72	≤ 54	PASS
				AV	2390.000	-51.7	≤ -41.20	43.50	≤ 54	PASS
				Peak	2310.000	-53.39	≤ -21.20	41.81	≤ 74	PASS
				Peak	2386.730	-42.97	≤ -21.20	52.23	≤ 74	PASS
				Peak	2390.000	-45.86	≤ -21.20	49.34	≤ 74	PASS
		High	2480	AV	2483.500	-50.97	≤ -41.20	44.23	≤ 54	PASS
				AV	2499.520	-49.24	≤ -41.20	45.96	≤ 54	PASS
				AV	2500.000	-49.35	≤ -41.20	45.85	≤ 54	PASS
				Peak	2483.500	-50.61	≤ -21.20	44.59	≤ 74	PASS
				Peak	2498.800	-41.52	≤ -21.20	53.68	≤ 74	PASS
				Peak	2500.000	-42.93	≤ -21.20	52.27	≤ 74	PASS
		Low	Hop_24 02	Peak	2310.000	-49.53	≤ -21.20	45.67	≤ 74	PASS
				Peak	2389.460	-41.76	≤ -21.20	53.44	≤ 74	PASS
				Peak	2390.000	-43.59	≤ -21.20	51.61	≤ 74	PASS
		High	Hop_24 80	Peak	2483.500	-40.84	≤ -21.20	54.36	≤ 74	PASS
				Peak	2499.600	-40.03	≤ -21.20	55.17	≤ 74	PASS
				Peak	2500.000	-40.97	≤ -21.20	54.23	≤ 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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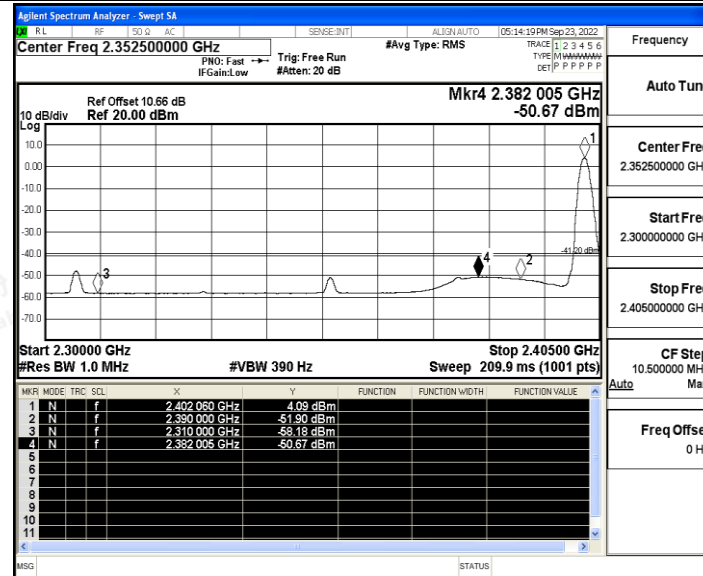
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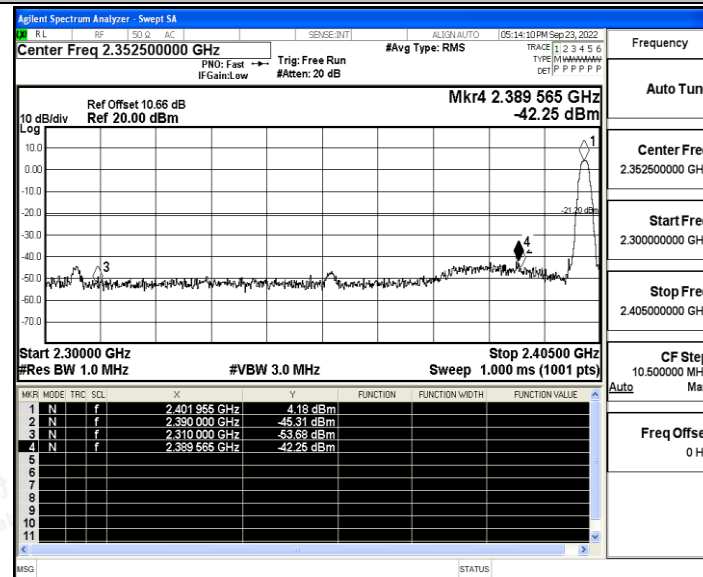


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

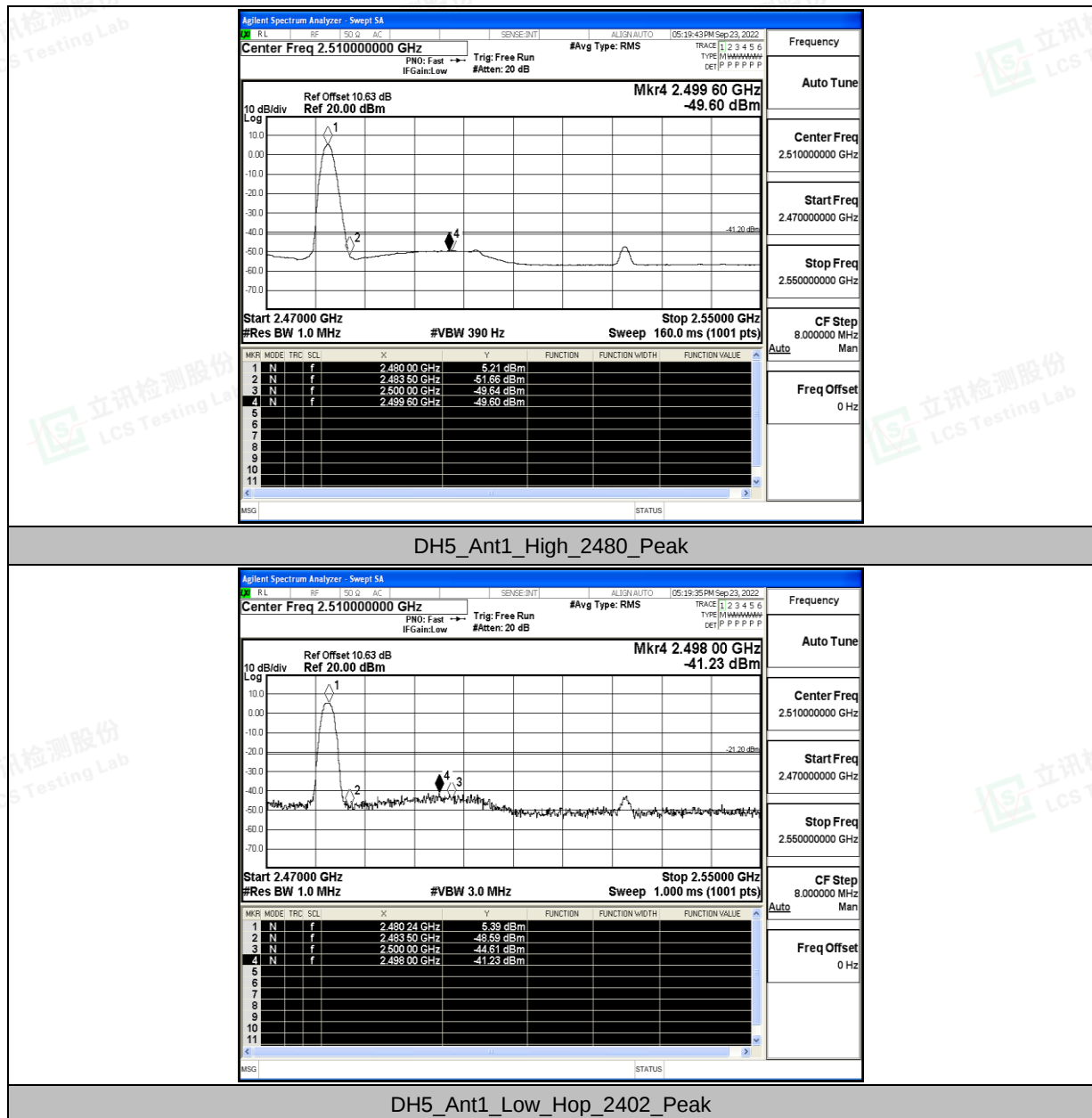


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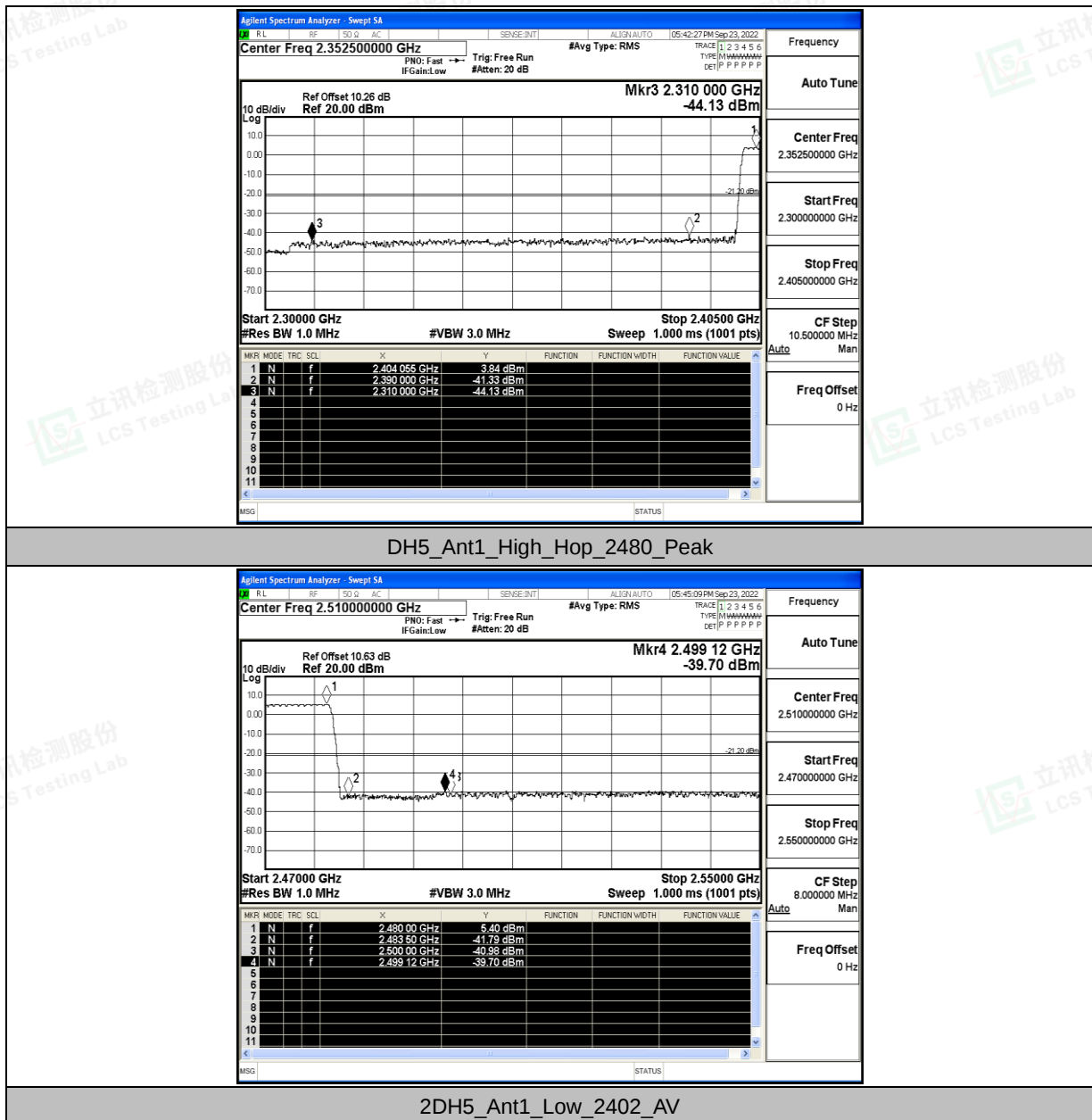


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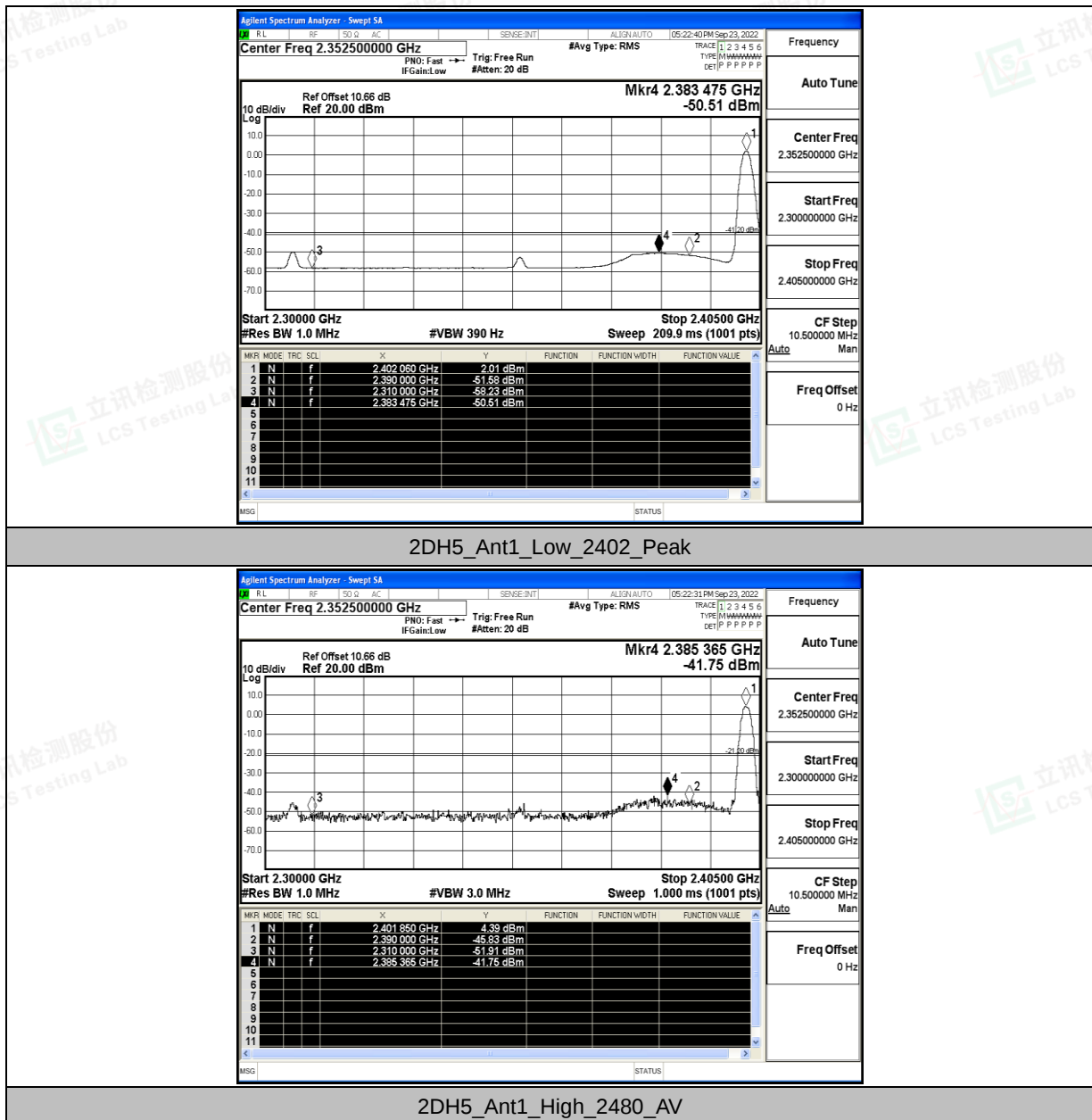


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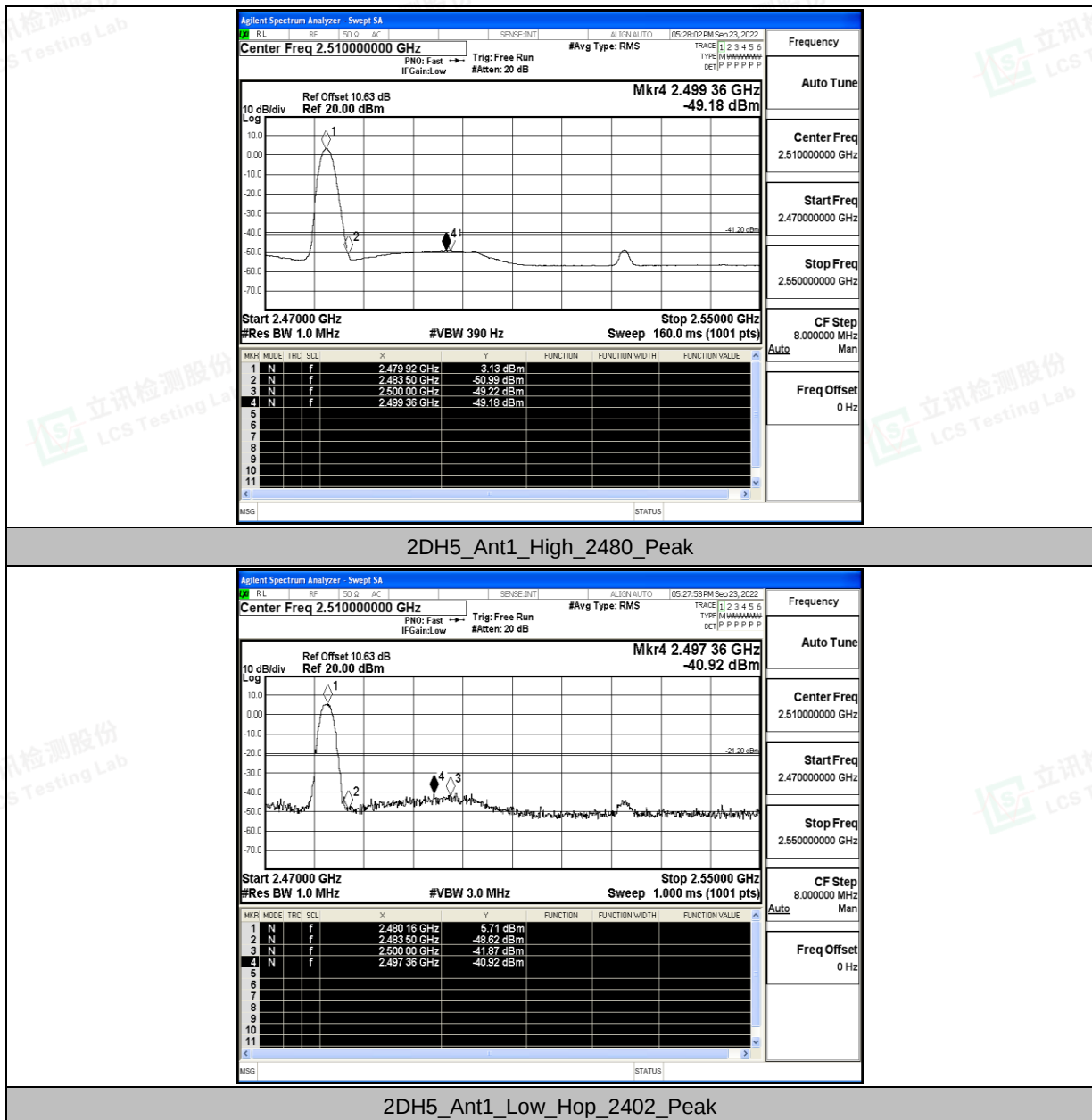


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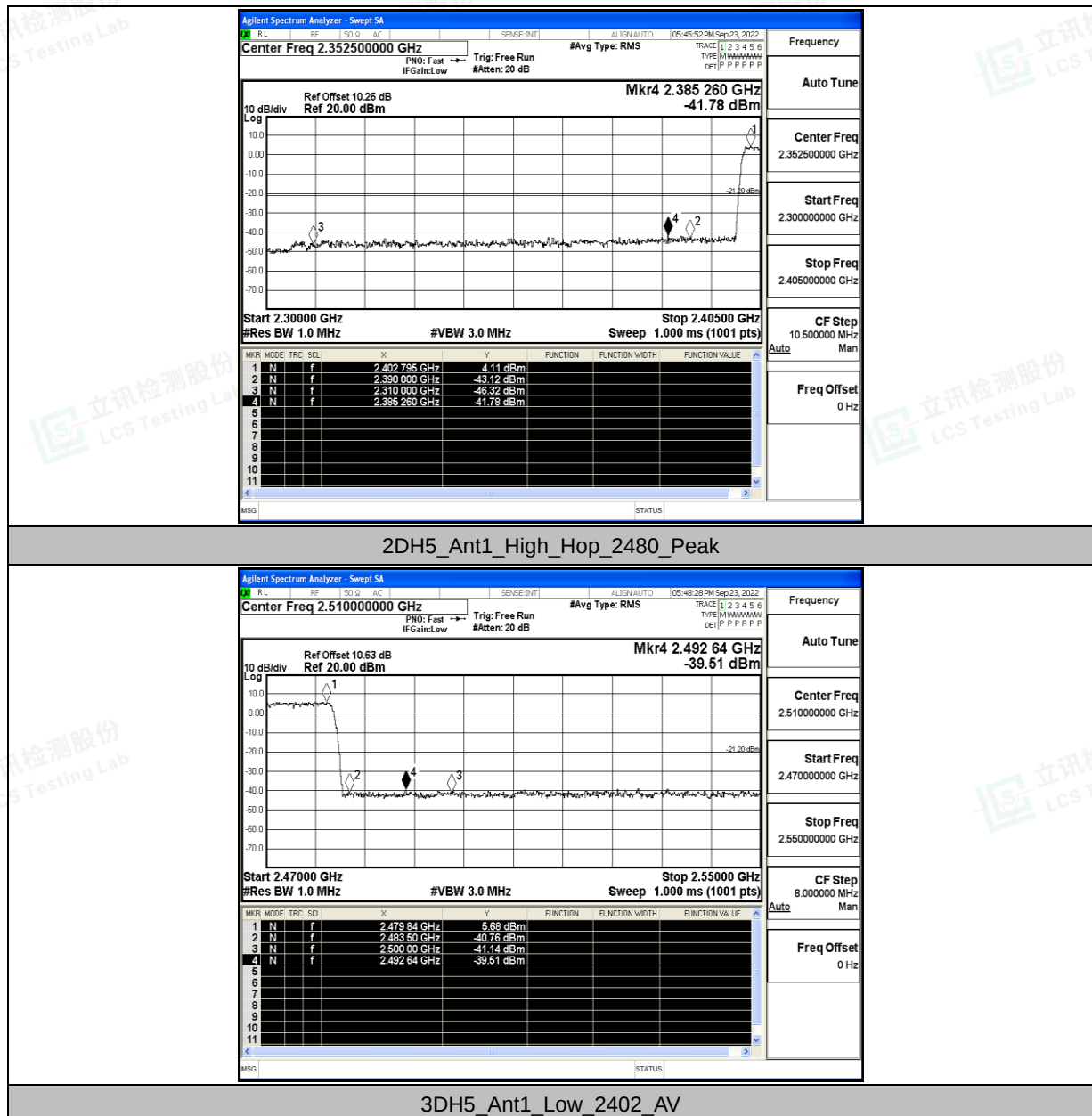


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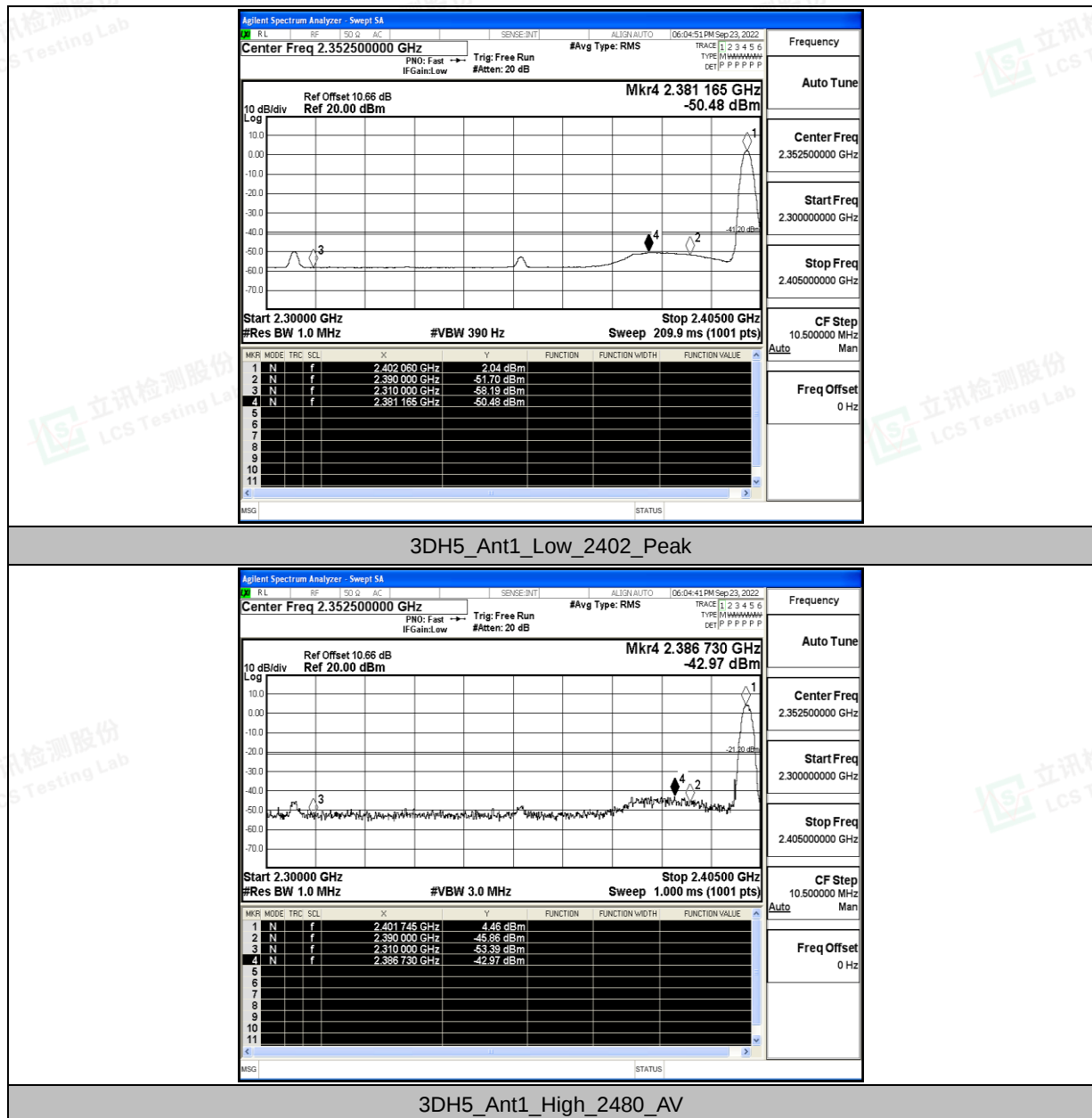


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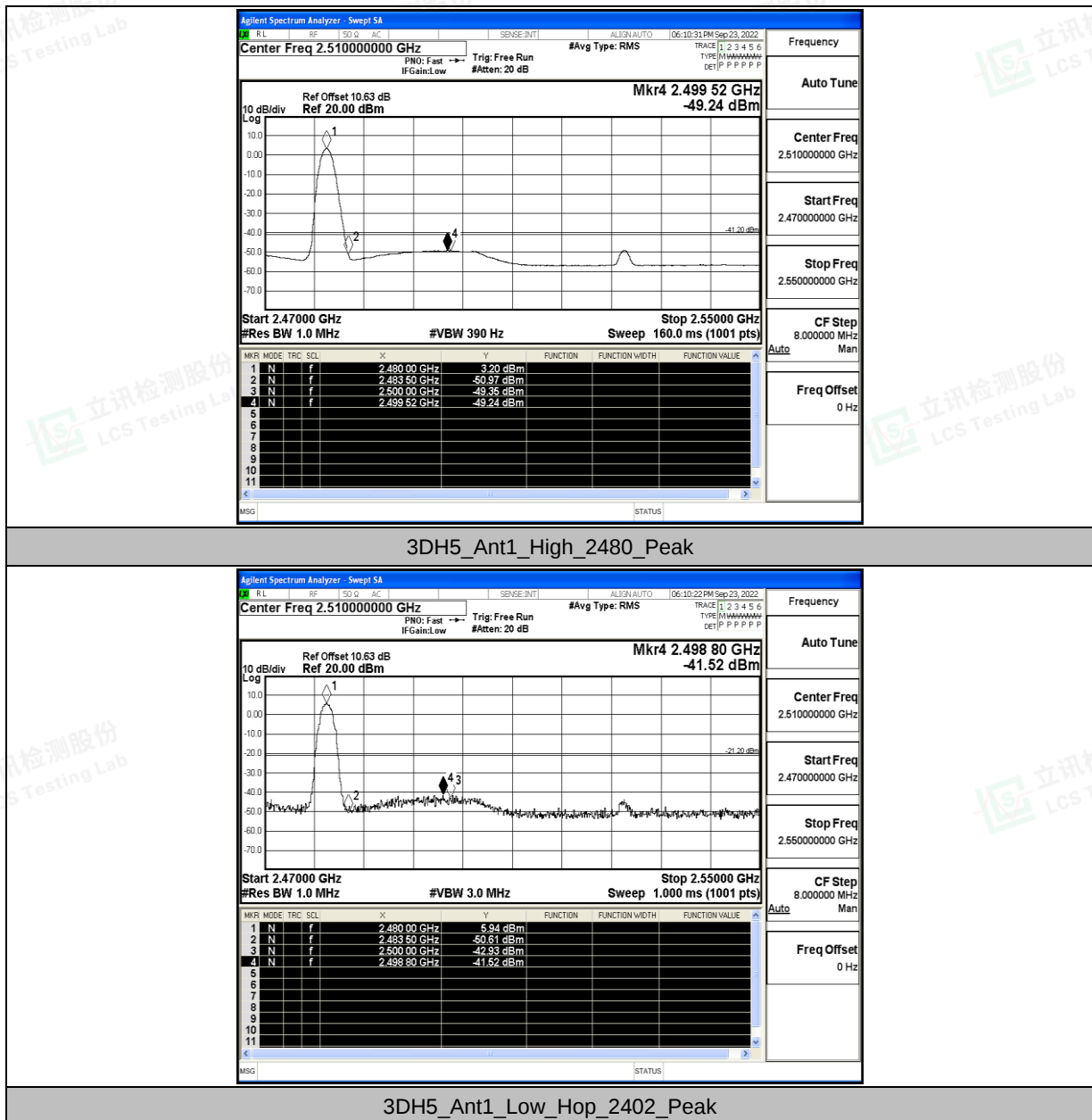


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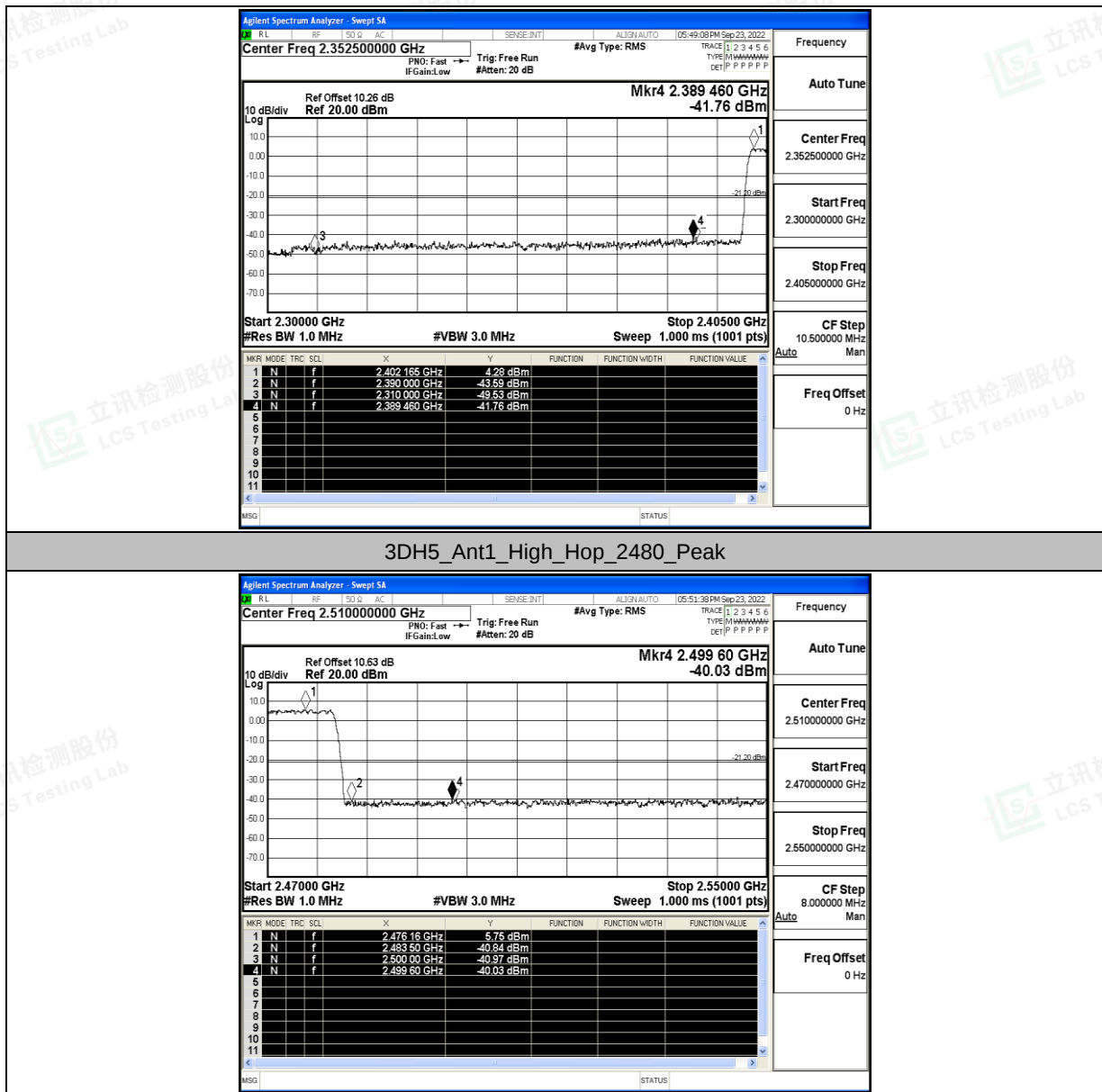


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