



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: i35 Bluetooth Earphones

Test Model: i35

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu



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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	1.029	2401.457	2402.486	PASS
		2441	1.044	2440.454	2441.498	PASS
		2480	0.966	2479.520	2480.486	PASS
2DH5	Ant1	2402	1.308	2401.340	2402.648	PASS
		2441	1.317	2440.331	2441.648	PASS
		2480	1.290	2479.352	2480.642	PASS

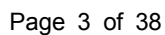


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Test Graphs

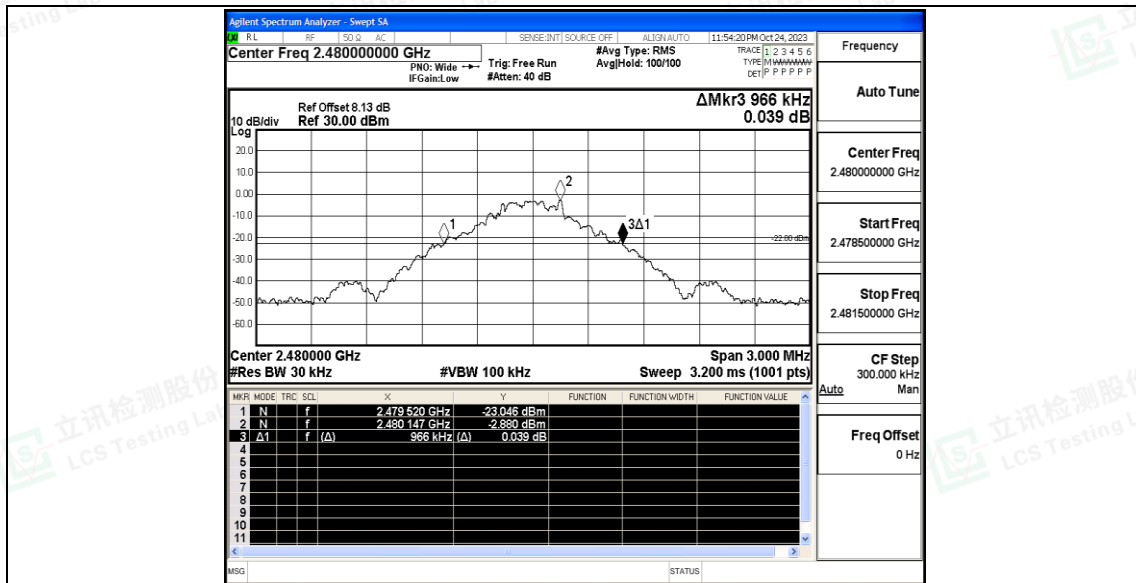


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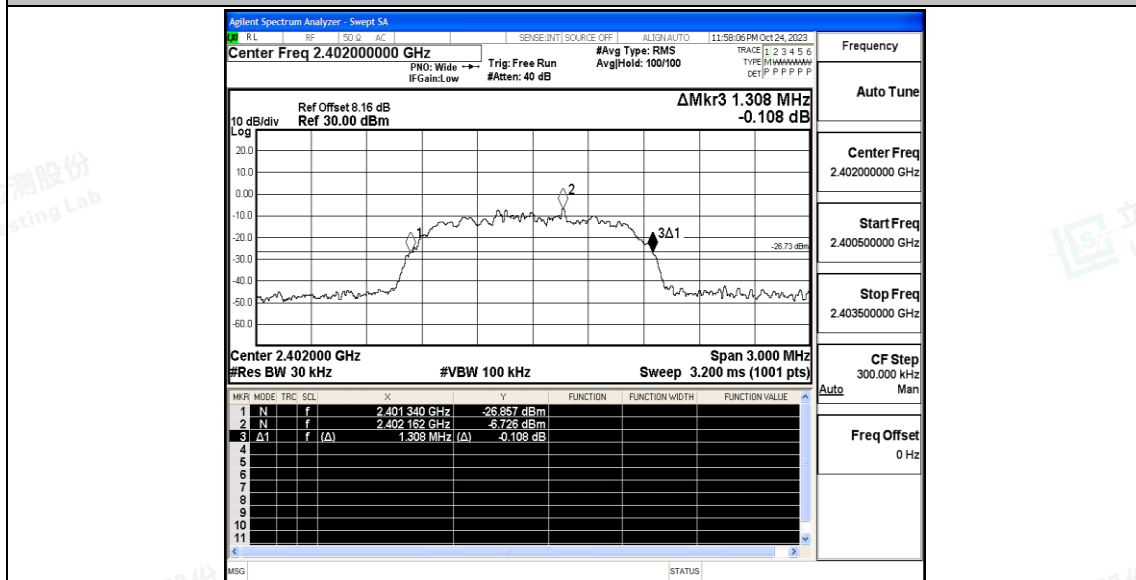
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2DH5_Ant1_2402



2DH5_Ant1_2441

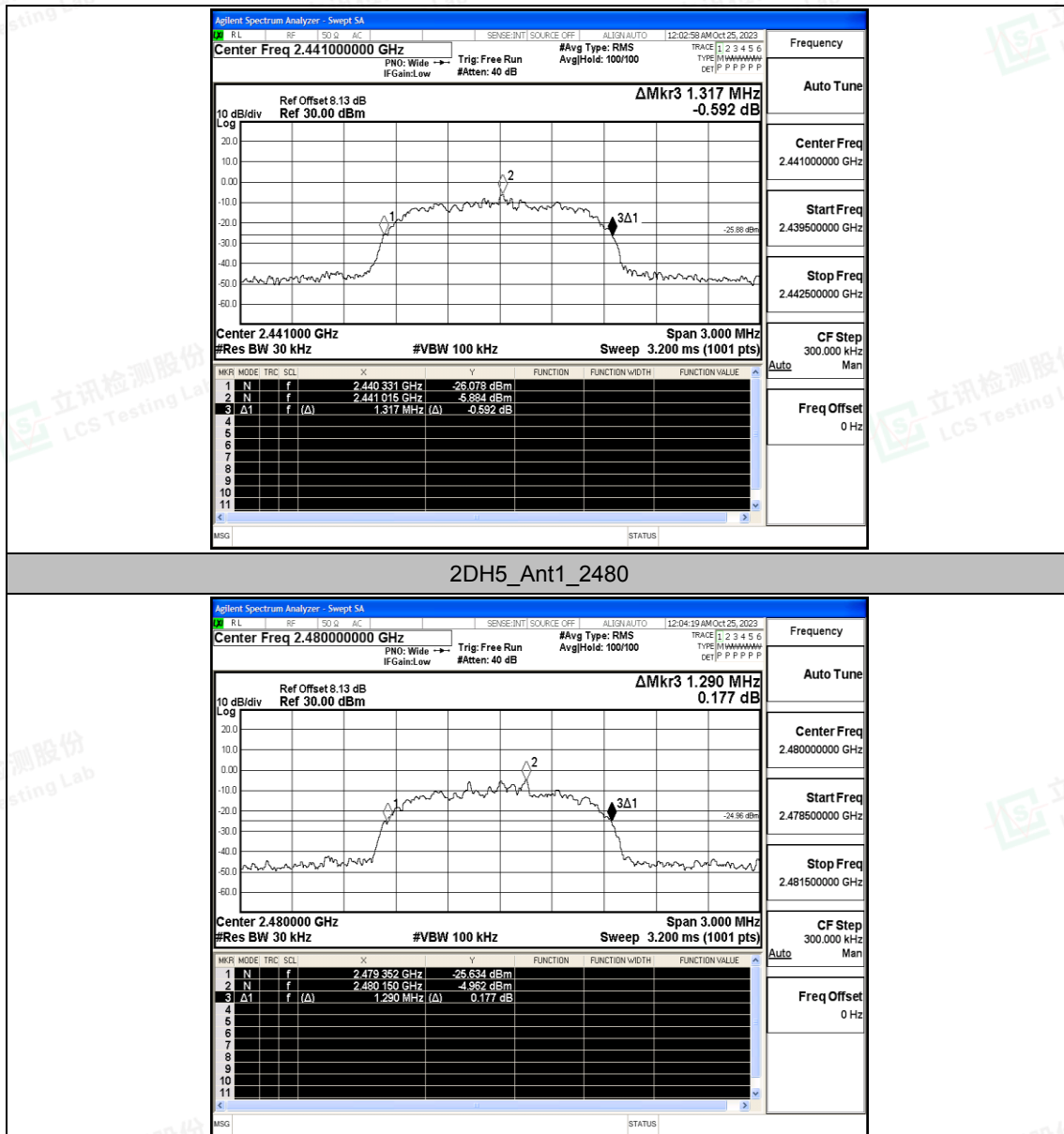


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.19	≤20.97	PASS
		2441	-0.14	≤20.97	PASS
		2480	-0.03	≤20.97	PASS
2DH5	Ant1	2402	-0.59	≤20.97	PASS
		2441	-0.42	≤20.97	PASS
		2480	-0.23	≤20.97	PASS



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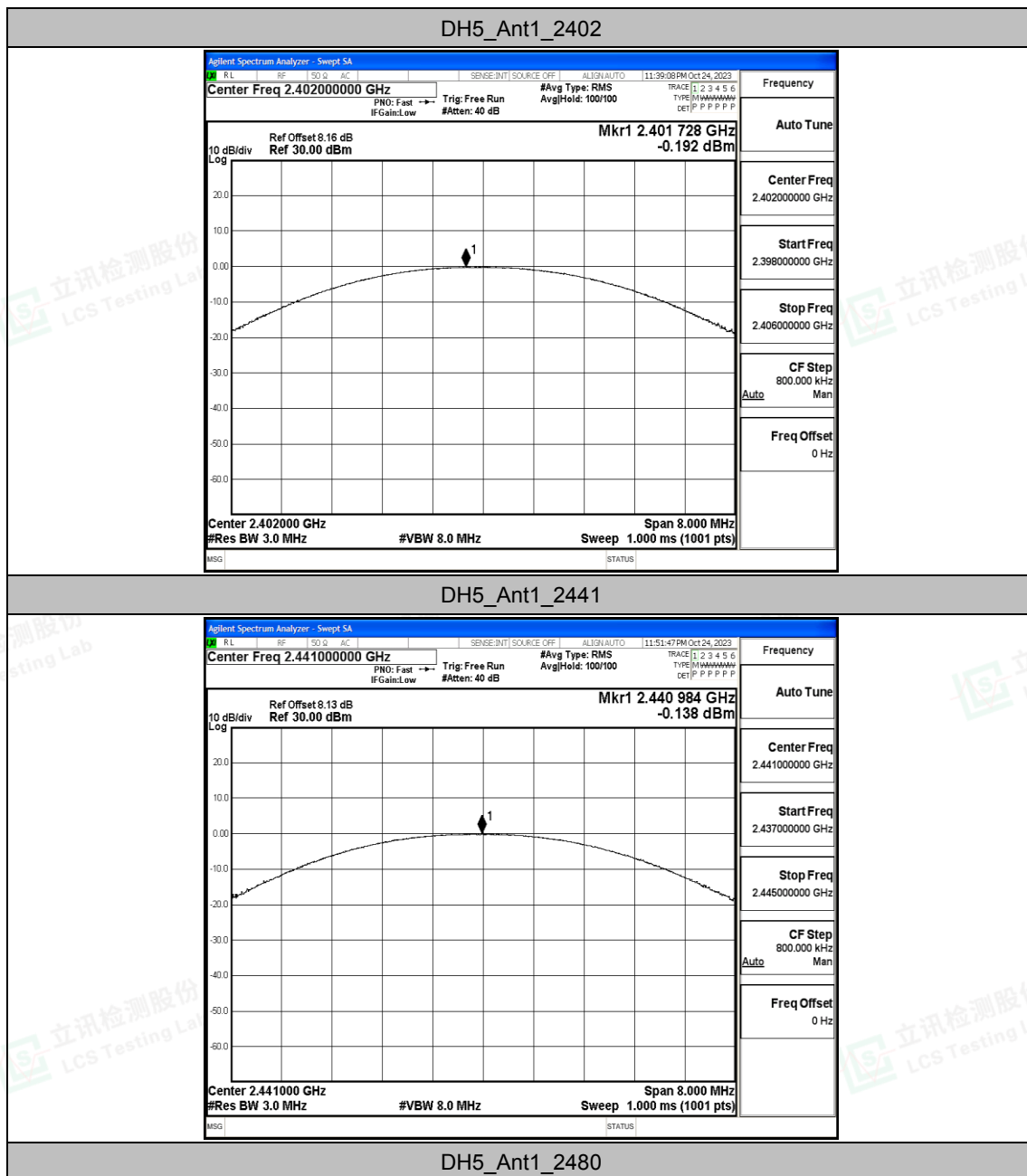
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Test Graphs

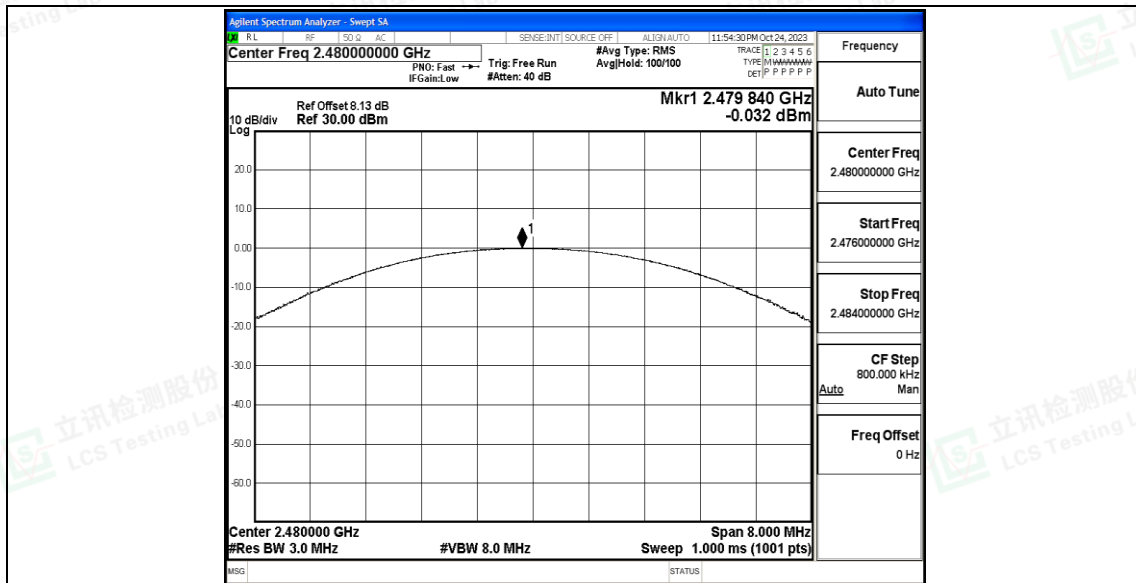


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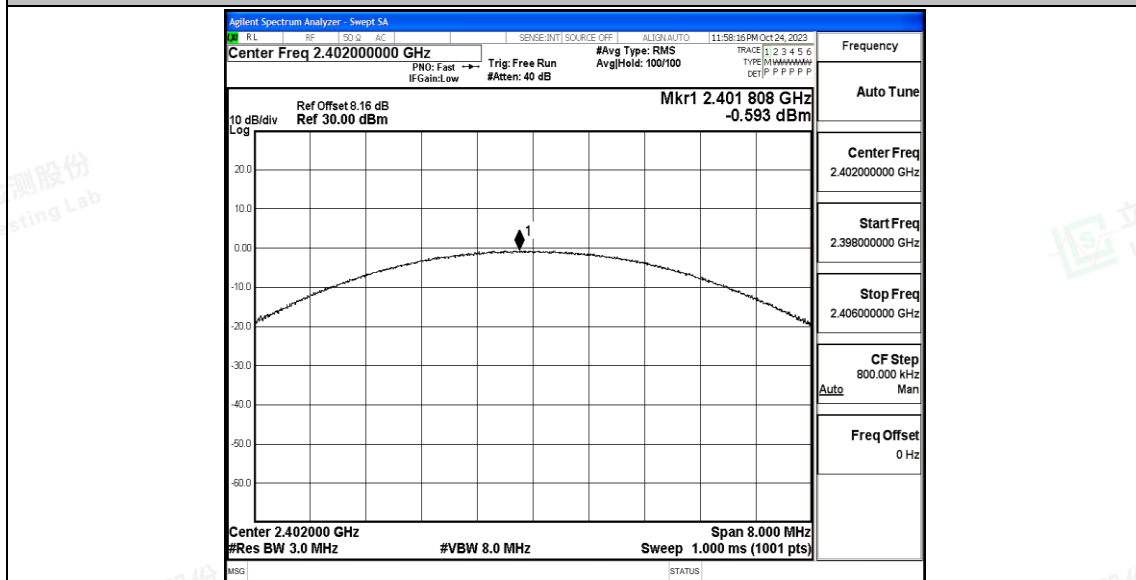
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2DH5_Ant1_2402



2DH5_Ant1_2441

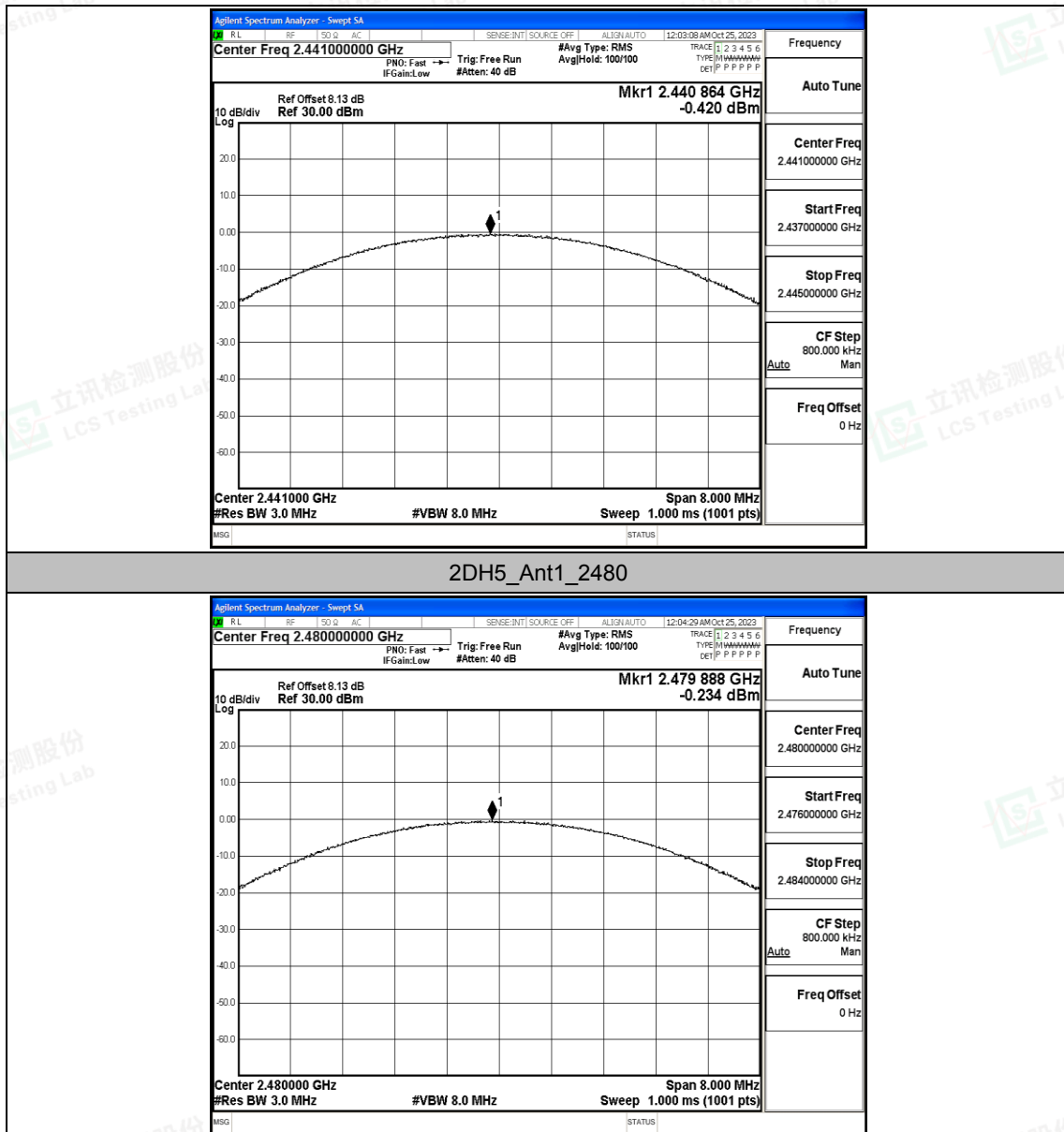


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.928	≥ 0.696	PASS
2DH5	Ant1	Hop	1.196	≥ 0.878	PASS



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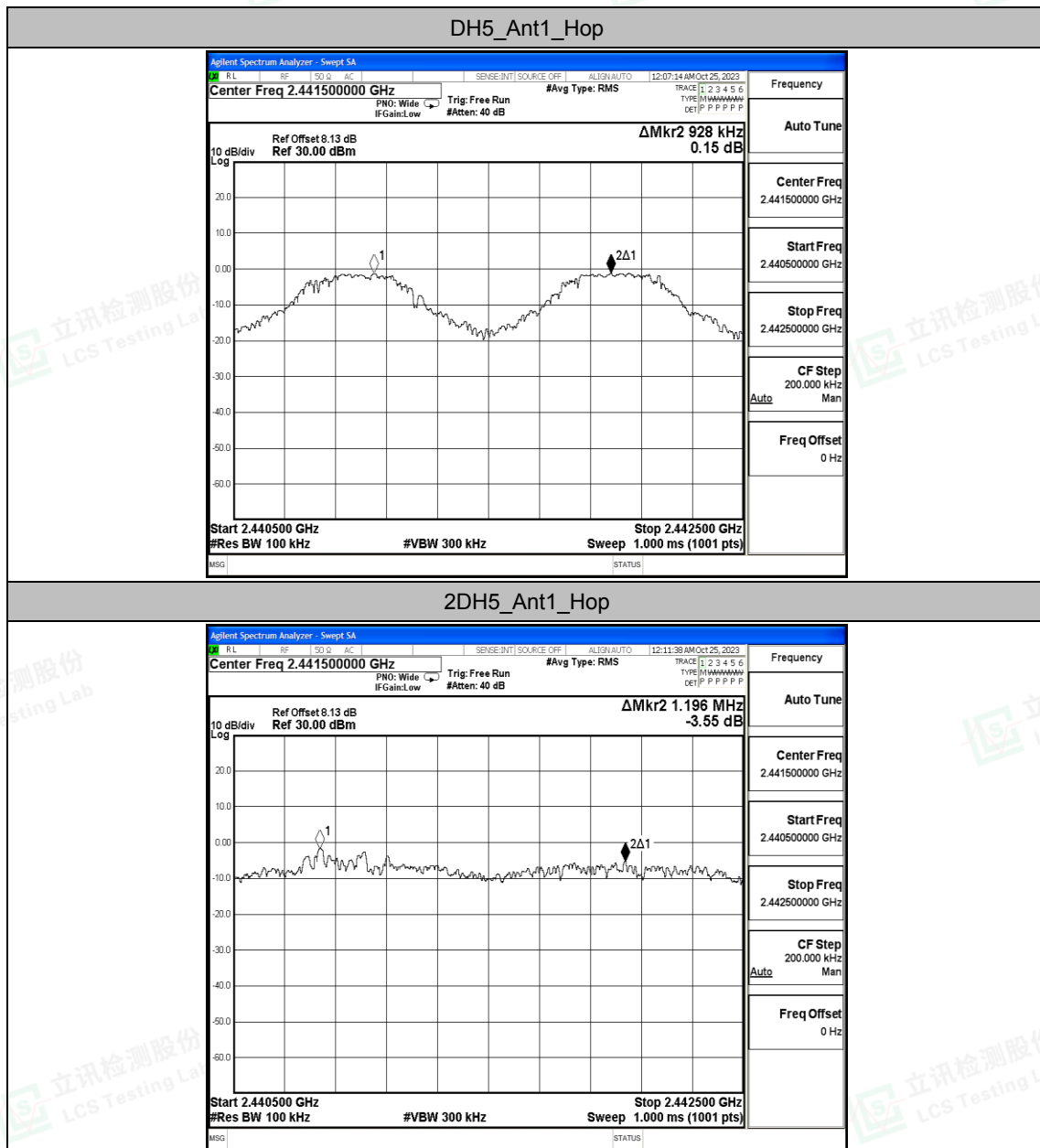
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Test Graphs



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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	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS



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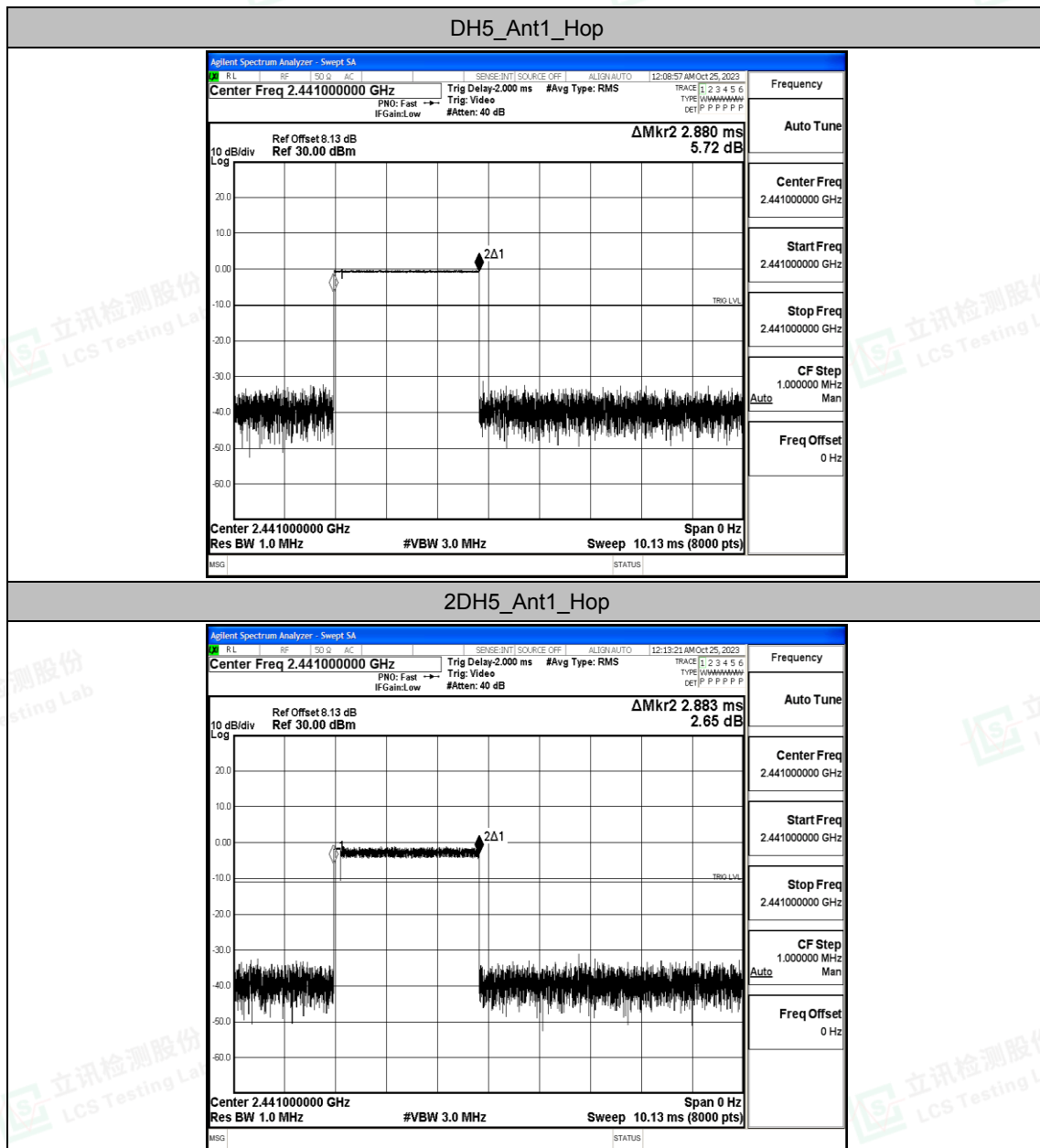
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A.5 Number of hopping channels

Test Result

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

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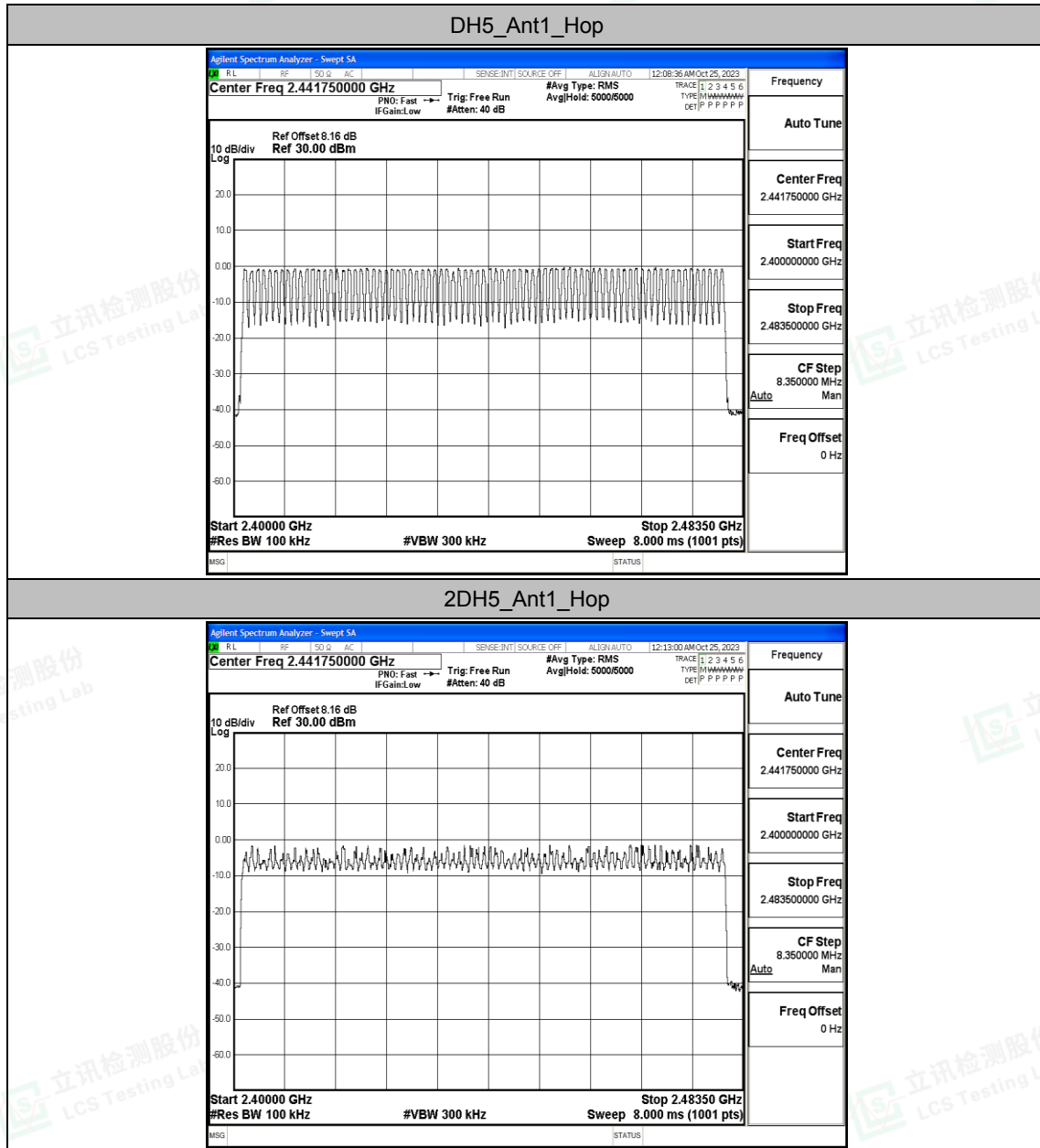
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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.51	-51.37	≤ -21.51	PASS
		High	2480	-1.47	-50.25	≤ -21.47	PASS
		Low	Hop_2402	-1.58	-50.27	≤ -21.58	PASS
		High	Hop_2480	-0.44	-48.75	≤ -20.44	PASS
2DH5	Ant1	Low	2402	-3.79	-50.22	≤ -23.79	PASS
		High	2480	-5.45	-49.92	≤ -25.45	PASS
		Low	Hop_2402	-5.87	-50.2	≤ -25.87	PASS
		High	Hop_2480	-3.54	-49.41	≤ -23.54	PASS



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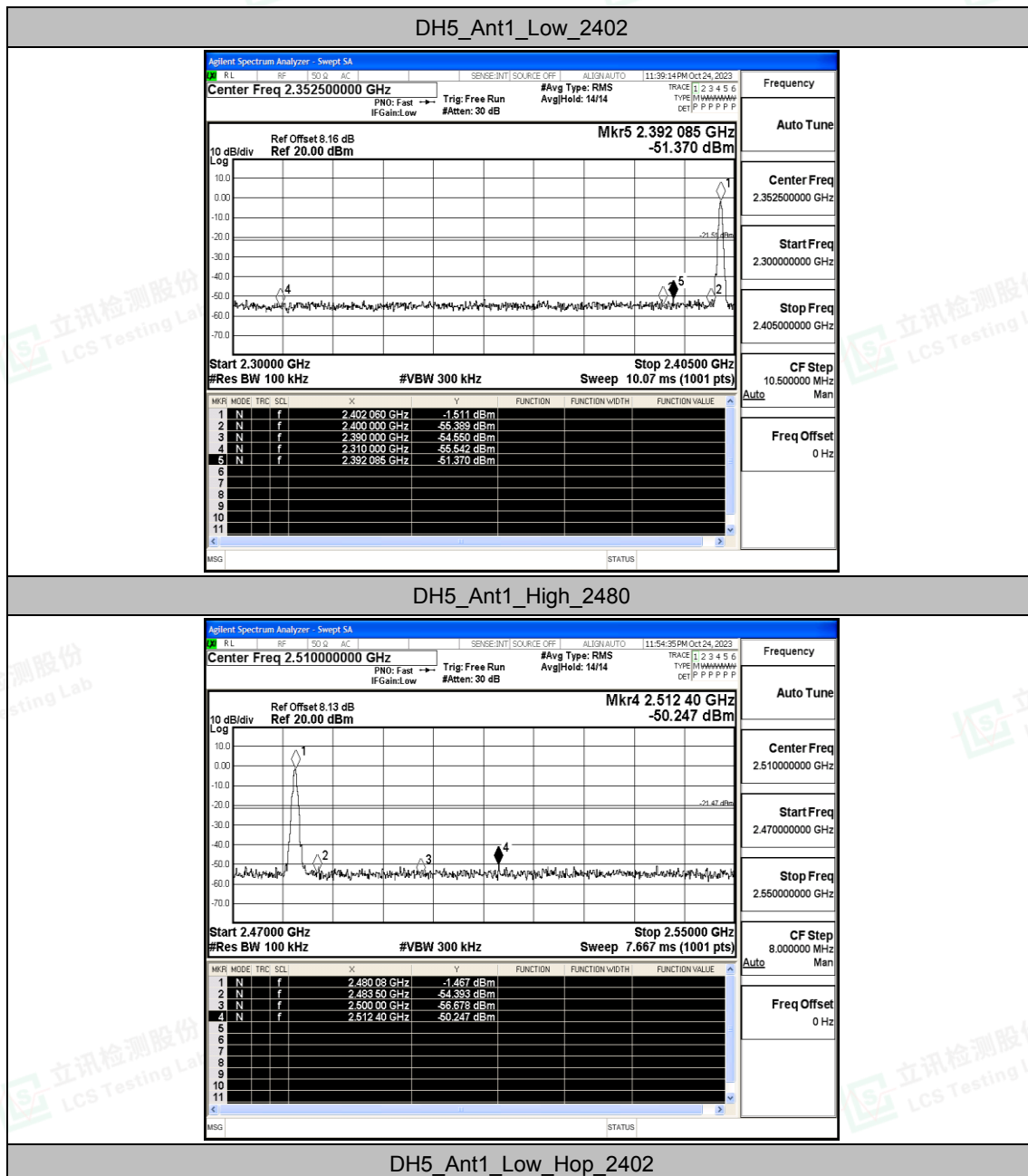
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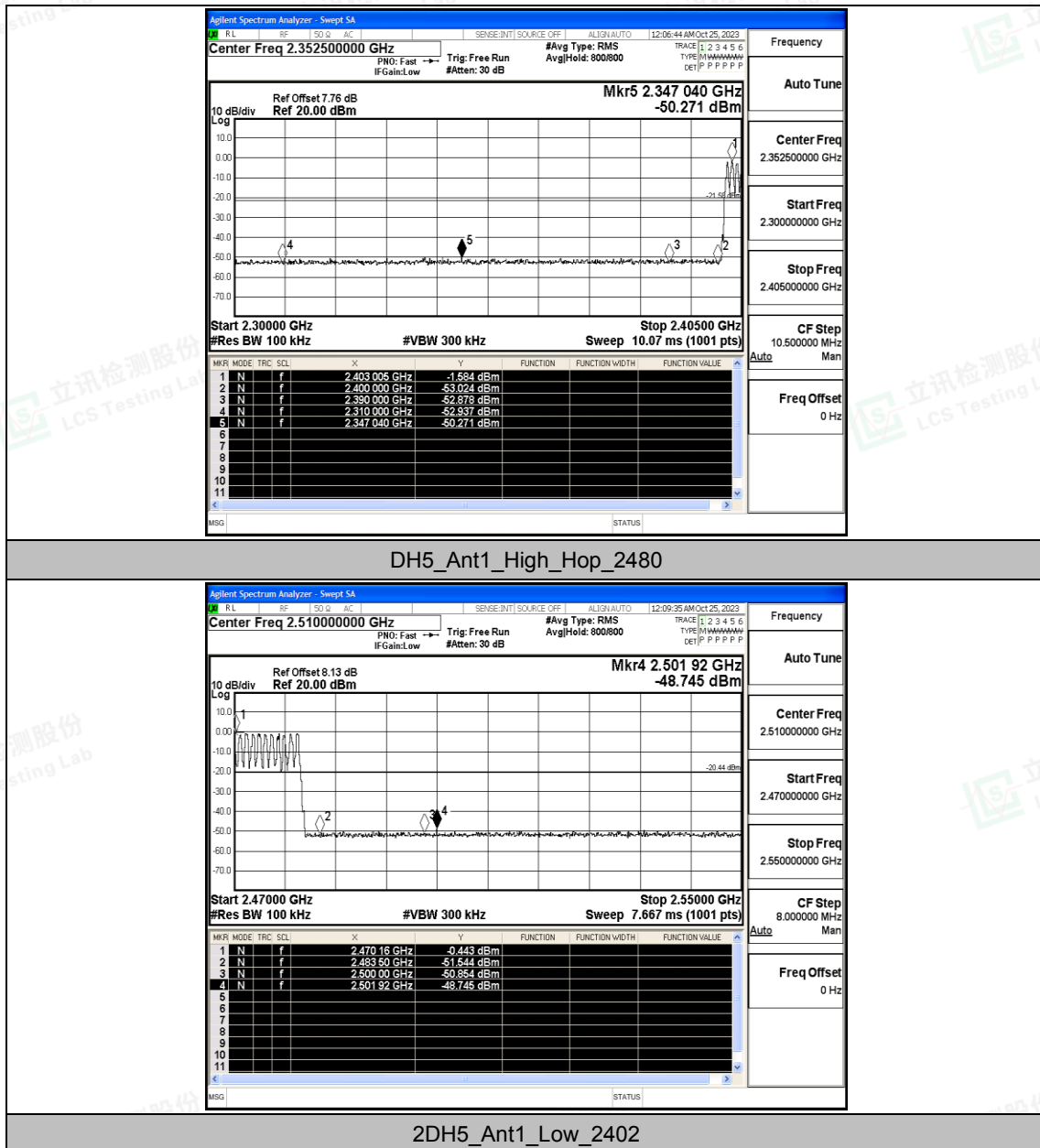


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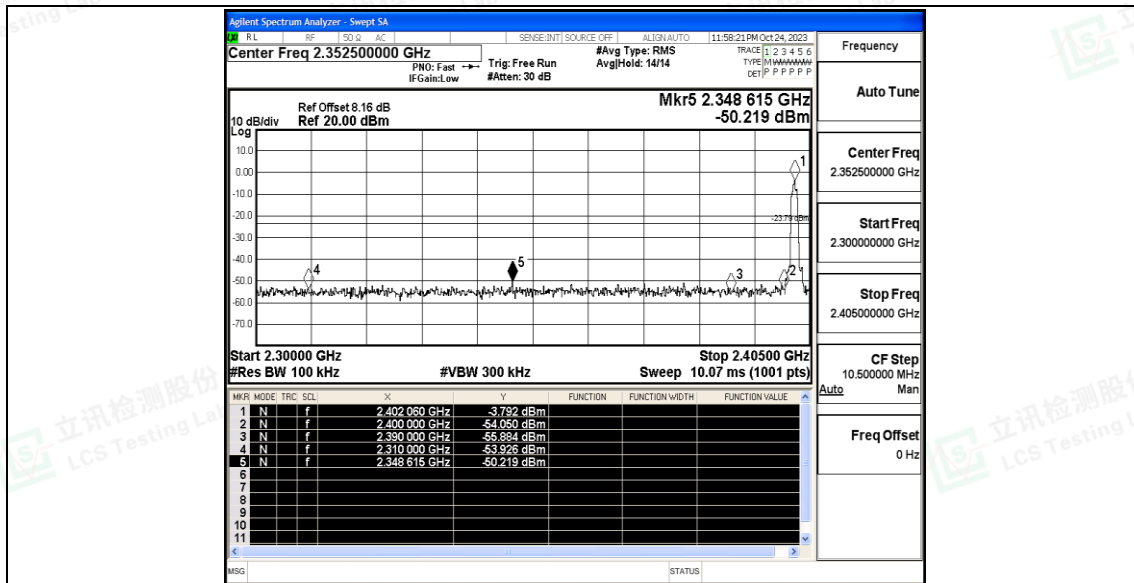


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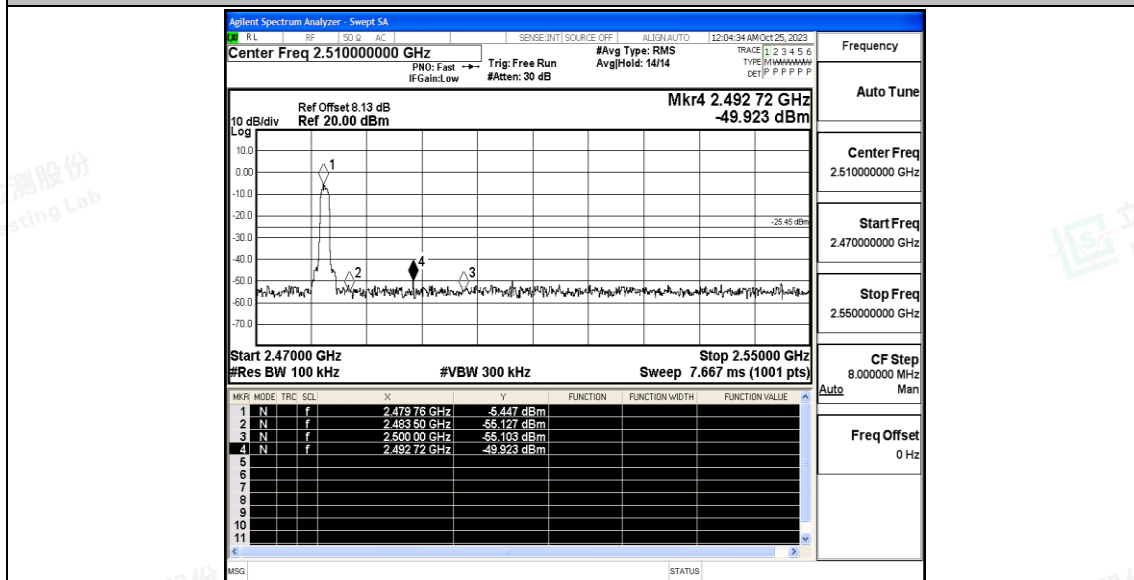
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

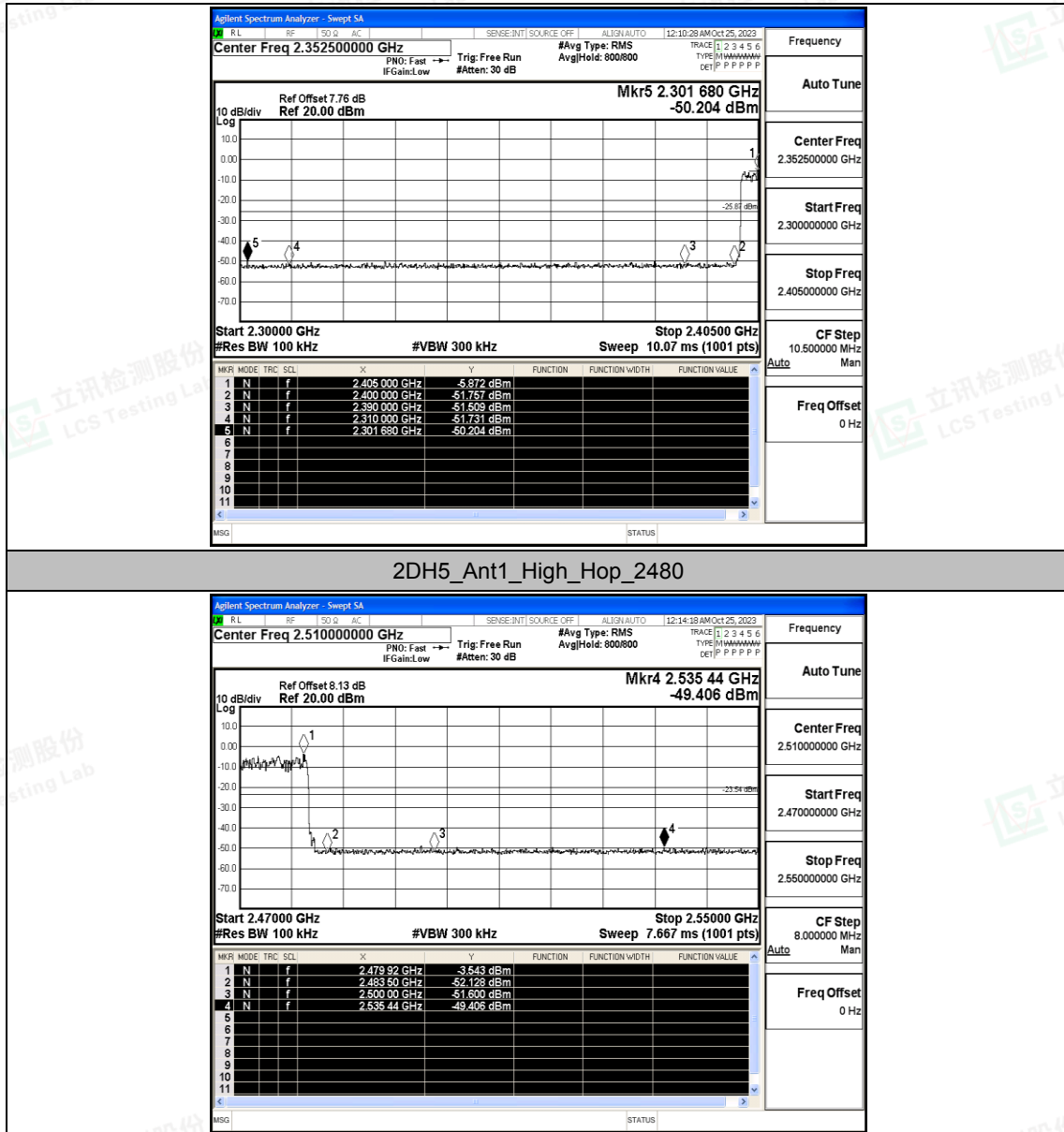


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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-61.84	≤-21.32	PASS
			1000~26500	-1.32	-48.84	≤-21.32	PASS
		2441	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-61.87	≤-20.81	PASS
			1000~26500	-0.81	-49.72	≤-20.81	PASS
		2480	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-61.55	≤-21.11	PASS
			1000~26500	-1.11	-43.58	≤-21.11	PASS
2DH5	Ant1	2402	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-62.03	≤-22.23	PASS
			1000~26500	-2.23	-49.03	≤-22.23	PASS
		2441	Reference	-1.77	-1.77	---	PASS
			30~1000	-1.77	-61.92	≤-21.77	PASS
			1000~26500	-1.77	-49.36	≤-21.77	PASS
		2480	Reference	-4.26	-4.26	---	PASS
			30~1000	-4.26	-62.27	≤-24.26	PASS
			1000~26500	-4.26	-48.44	≤-24.26	PASS



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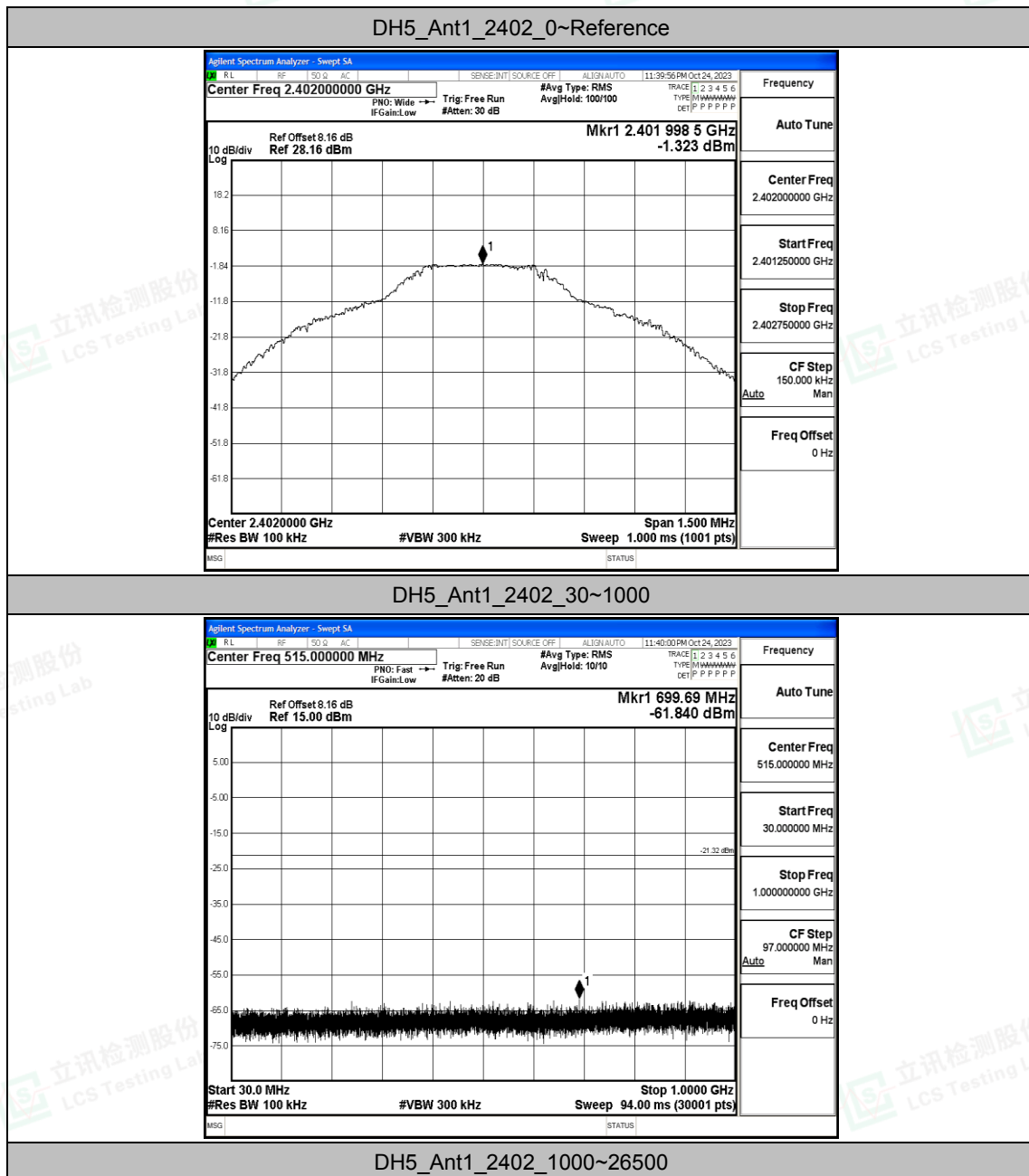
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Test Graphs

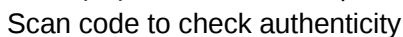
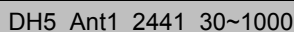


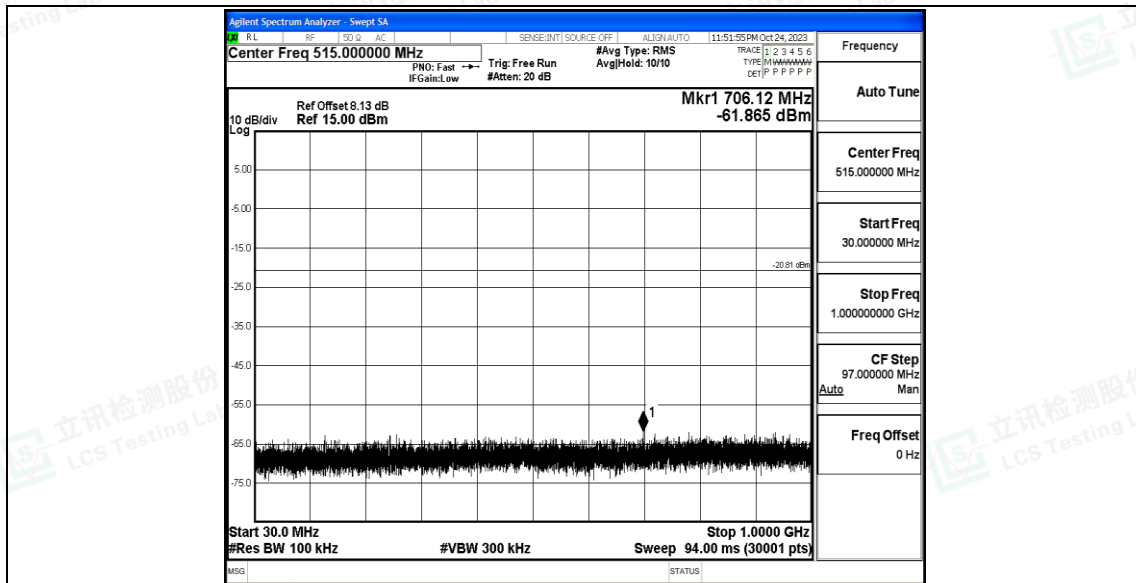
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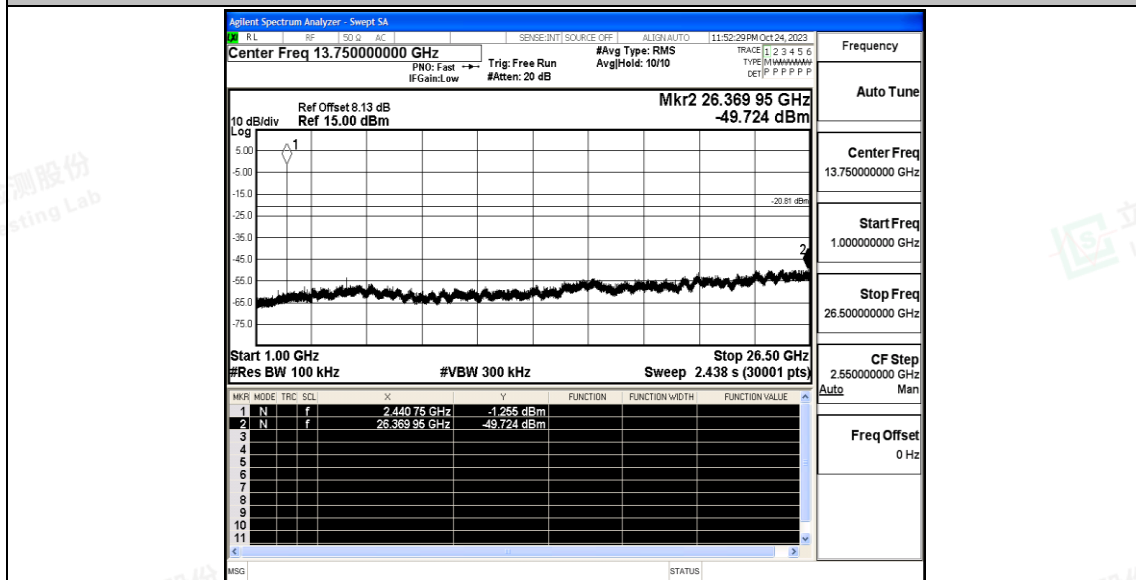
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

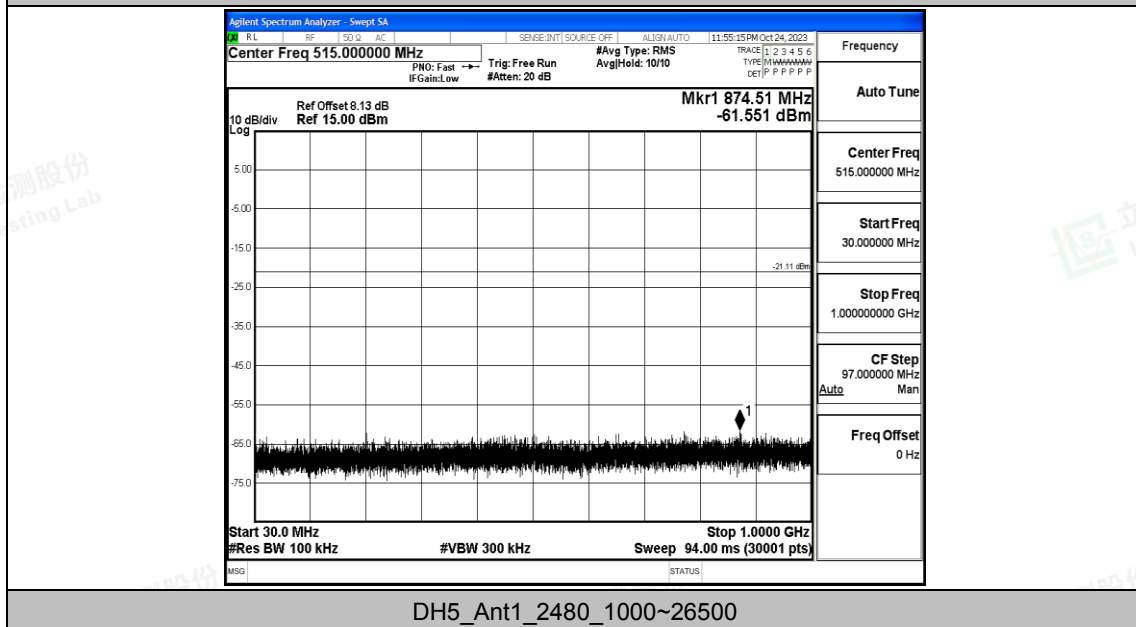
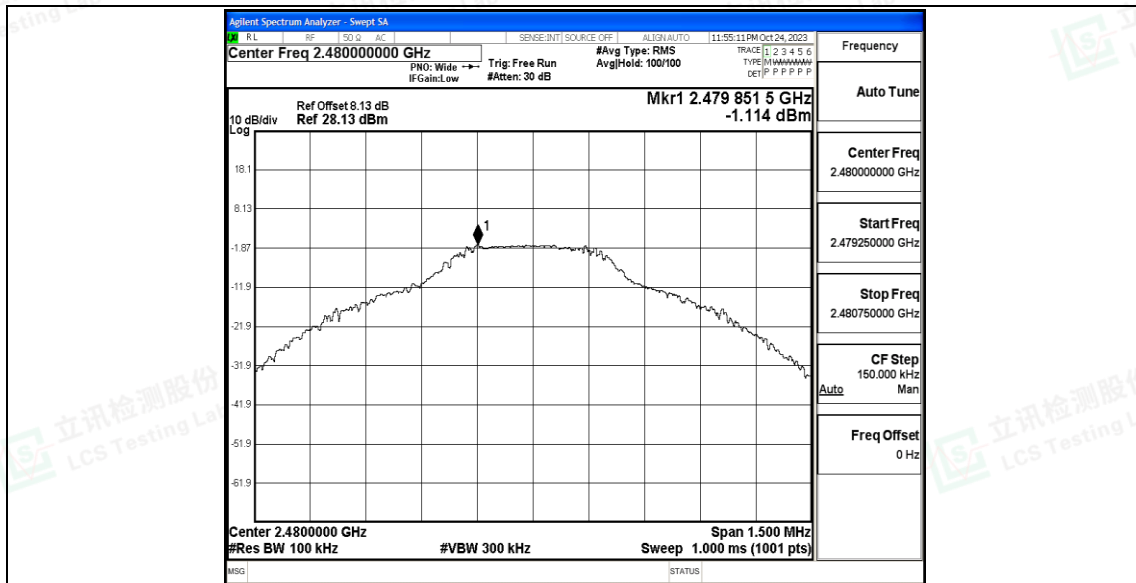


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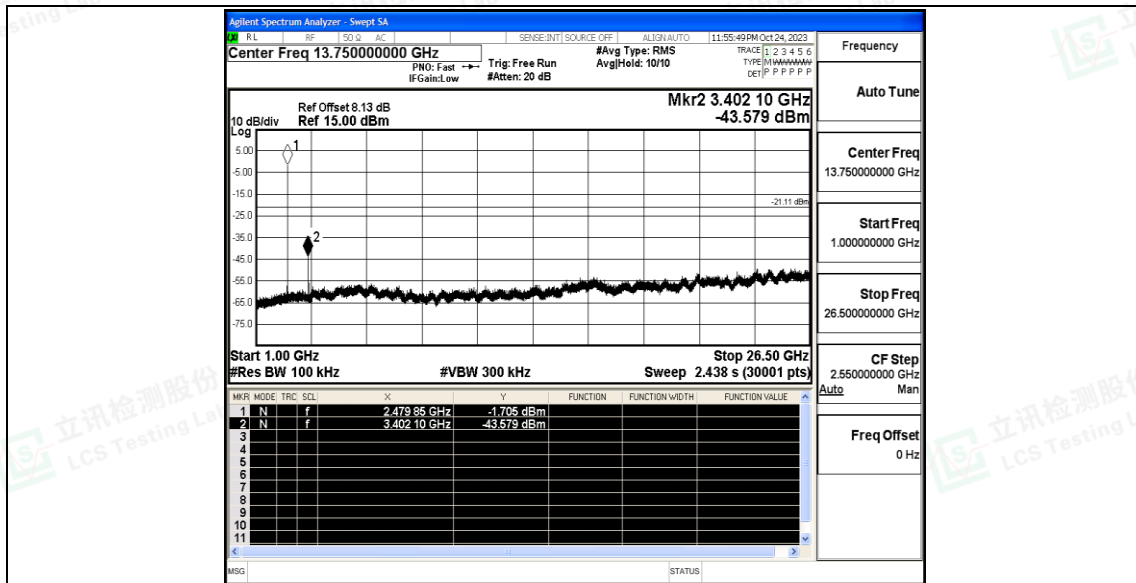


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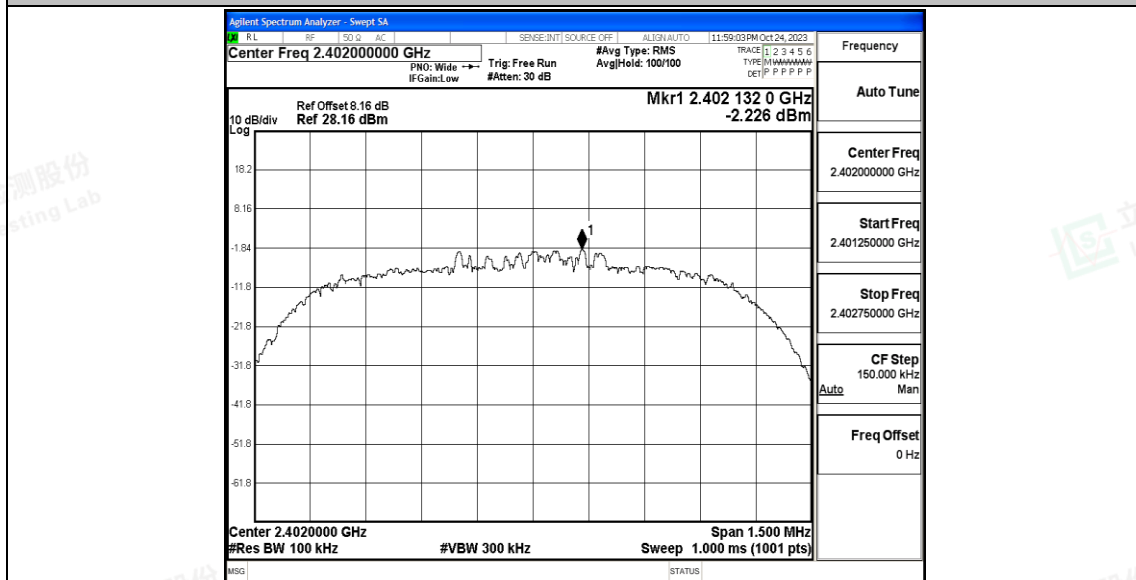
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

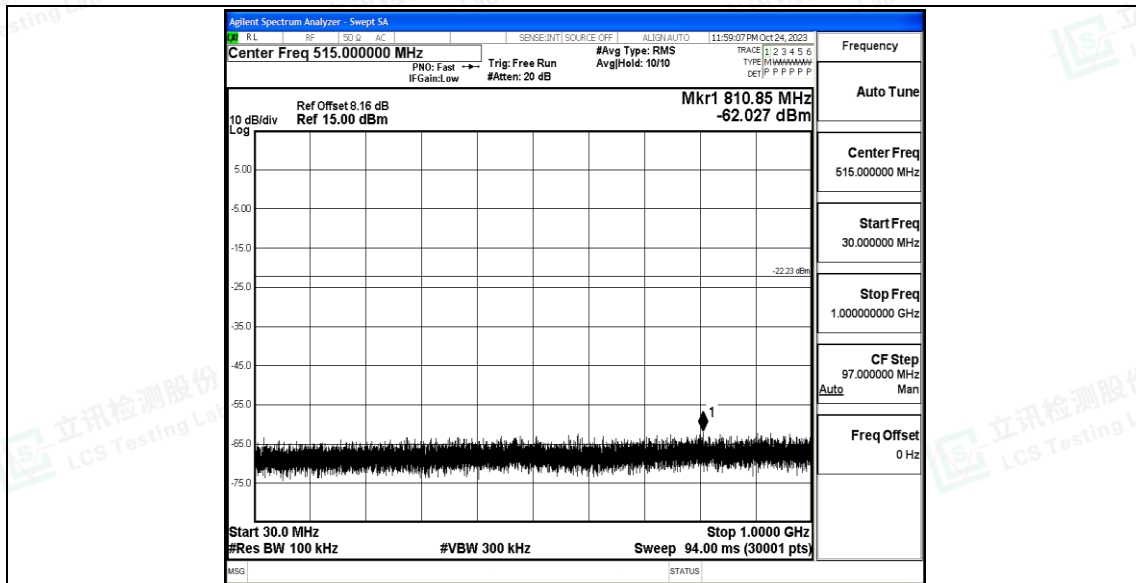


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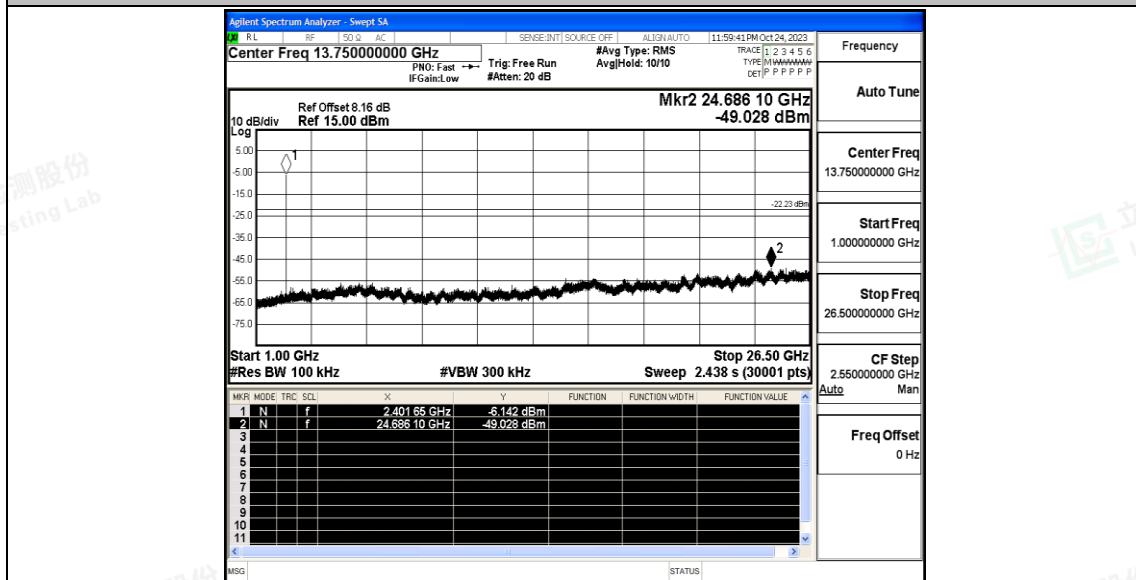
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

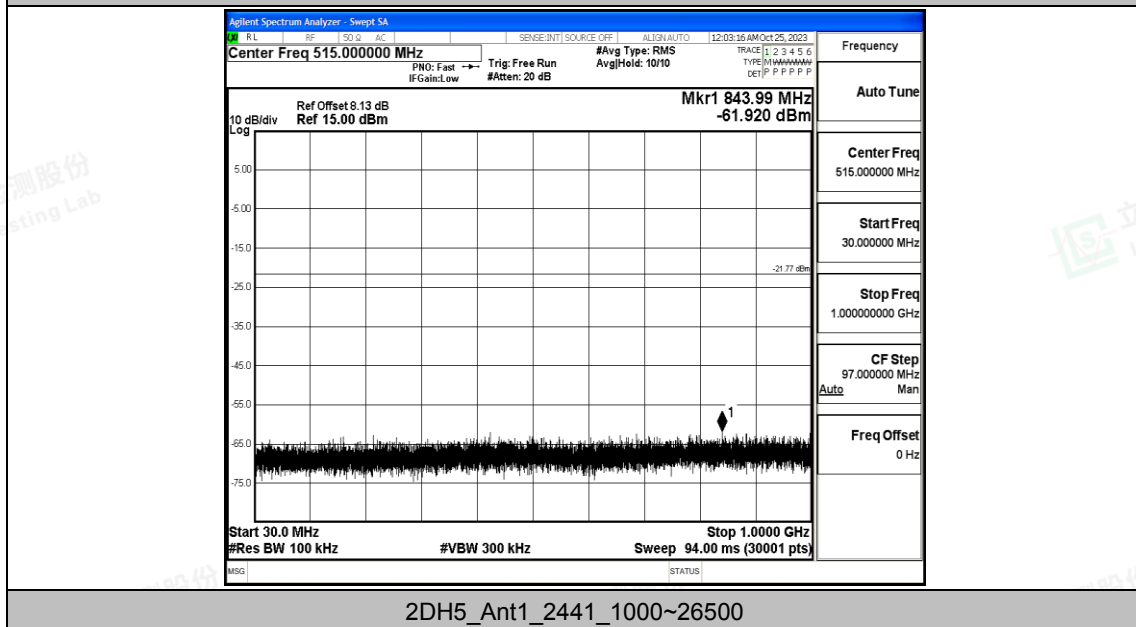
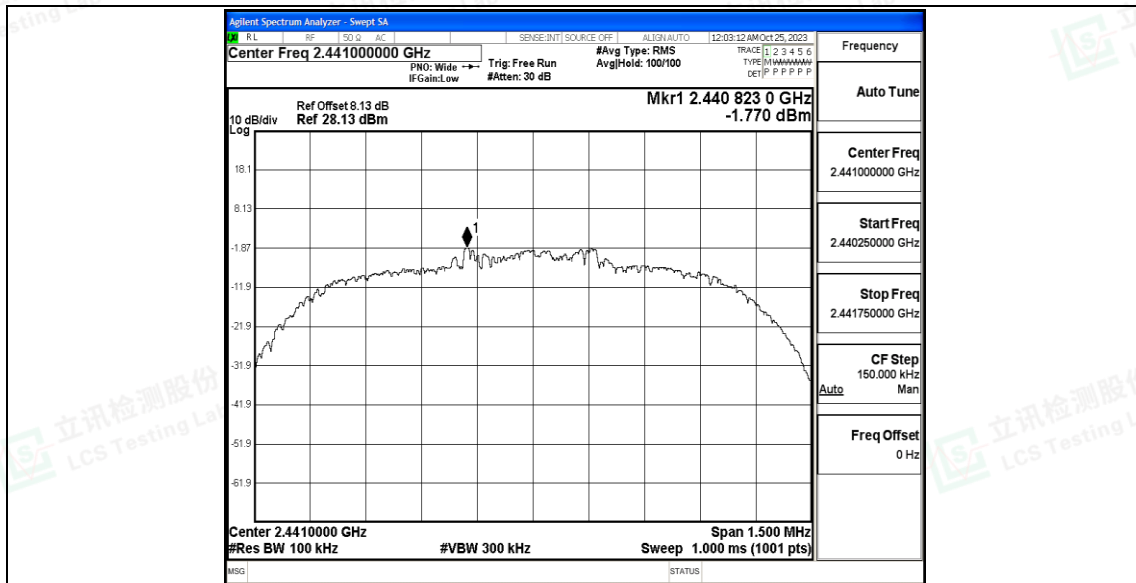


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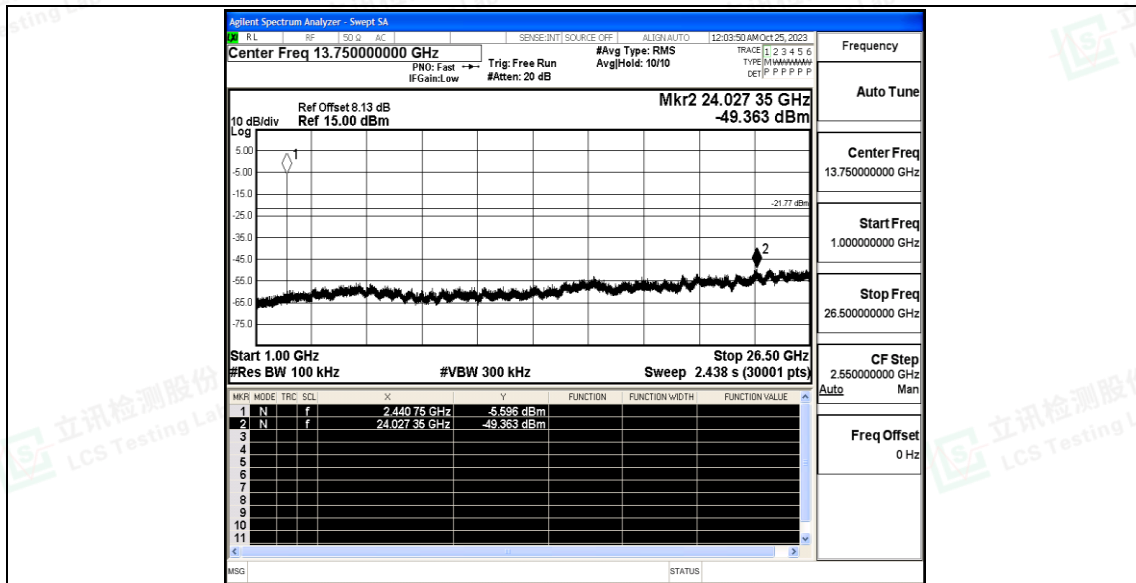


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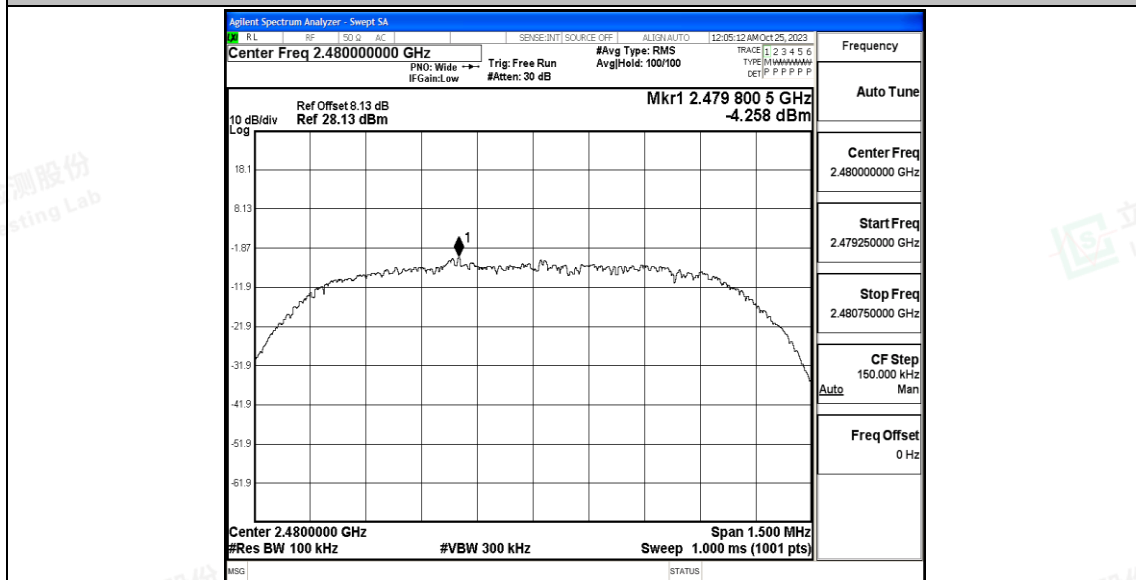
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

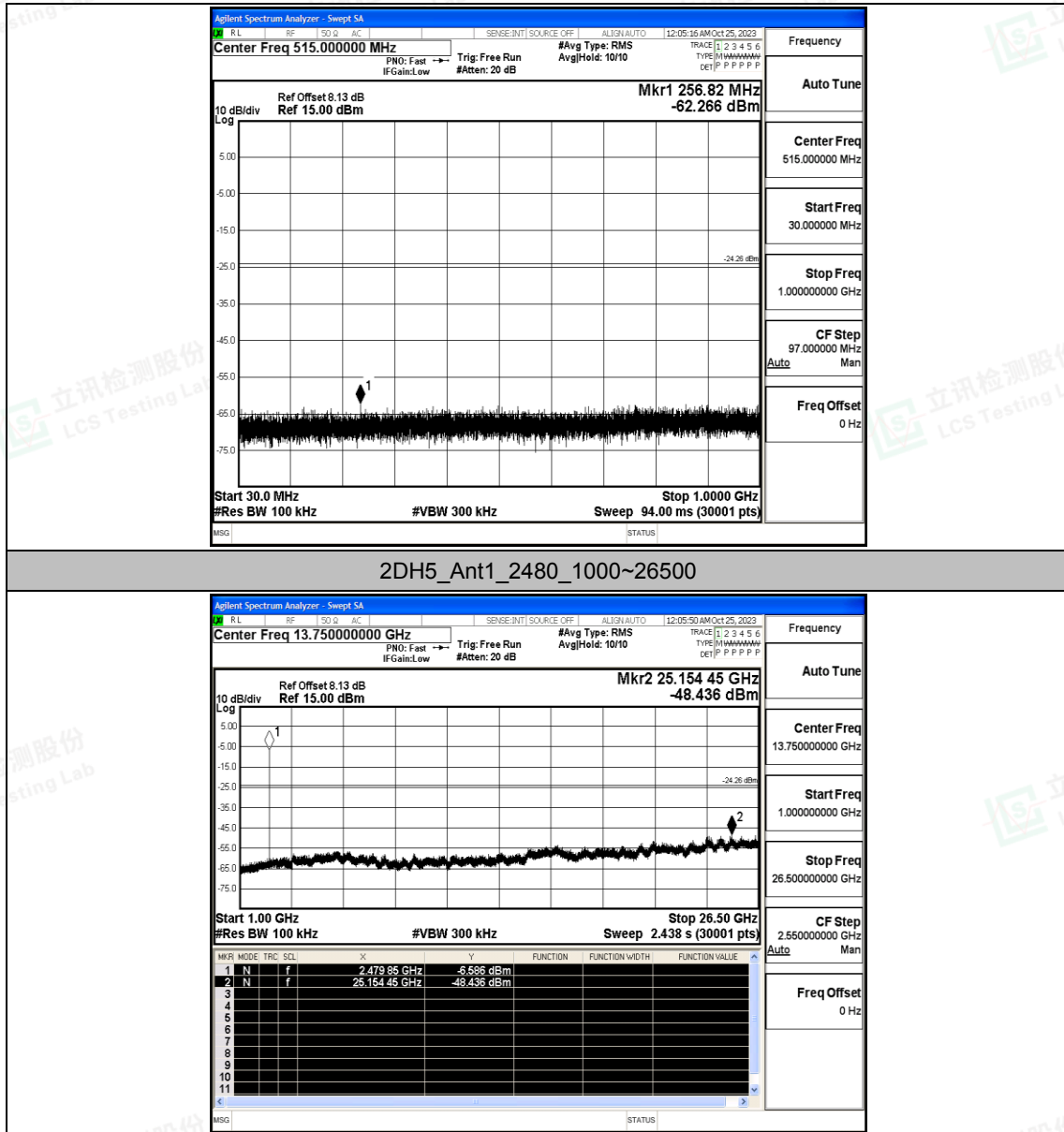


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A.8 Emissions in Restricted Bands

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	-49.07	≤-41.20	46.13	≤54	PASS
				AV	2382.425	-48.62	≤-41.20	46.58	≤54	PASS
				AV	2390.000	-48.83	≤-41.20	46.37	≤54	PASS
				Peak	2310.000	-44.44	≤-21.20	50.76	≤74	PASS
				Peak	2338.850	-39.36	≤-21.20	55.84	≤74	PASS
				Peak	2390.000	-42.01	≤-21.20	53.19	≤74	PASS
		High	2480	AV	2483.500	-48.53	≤-41.20	46.67	≤54	PASS
				AV	2495.520	-48.42	≤-41.20	46.78	≤54	PASS
				AV	2500.000	-48.69	≤-41.20	46.51	≤54	PASS
				Peak	2483.500	-42.74	≤-21.20	52.46	≤74	PASS
				Peak	2492.400	-39.73	≤-21.20	55.47	≤74	PASS
				Peak	2500.000	-43.95	≤-21.20	51.25	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.98	≤-21.20	54.22	≤74	PASS
				Peak	2352.920	-38.24	≤-21.20	56.96	≤74	PASS
				Peak	2390.000	-41.48	≤-21.20	53.72	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.49	≤-21.20	54.71	≤74	PASS
				Peak	2491.440	-38.74	≤-21.20	56.46	≤74	PASS
				Peak	2500.000	-40.06	≤-21.20	55.14	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.19	≤-41.20	46.01	≤54	PASS
				AV	2387.675	-48.58	≤-41.20	46.62	≤54	PASS
				AV	2390.000	-48.73	≤-41.20	46.47	≤54	PASS
				Peak	2310.000	-42.42	≤-21.20	52.78	≤74	PASS
				Peak	2370.560	-39.97	≤-21.20	55.23	≤74	PASS
				Peak	2390.000	-43.28	≤-21.20	51.92	≤74	PASS
		High	2480	AV	2483.500	-48.47	≤-41.20	46.73	≤54	PASS
				AV	2483.600	-48.45	≤-41.20	46.75	≤54	PASS
				AV	2500.000	-48.57	≤-41.20	46.63	≤54	PASS
				Peak	2483.500	-44.34	≤-21.20	50.86	≤74	PASS
				Peak	2488.960	-40.07	≤-21.20	55.13	≤74	PASS
				Peak	2500.000	-42.52	≤-21.20	52.68	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.11	≤-21.20	55.09	≤74	PASS
				Peak	2346.410	-37.74	≤-21.20	57.46	≤74	PASS
				Peak	2390.000	-40.37	≤-21.20	54.83	≤74	PASS



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		High	Hop_24 80	Peak	2483.500	-39.84	≤ -21.20	55.36	≤ 74	PASS
				Peak	2496.320	-37.74	≤ -21.20	57.46	≤ 74	PASS
				Peak	2500.000	-40.88	≤ -21.20	54.32	≤ 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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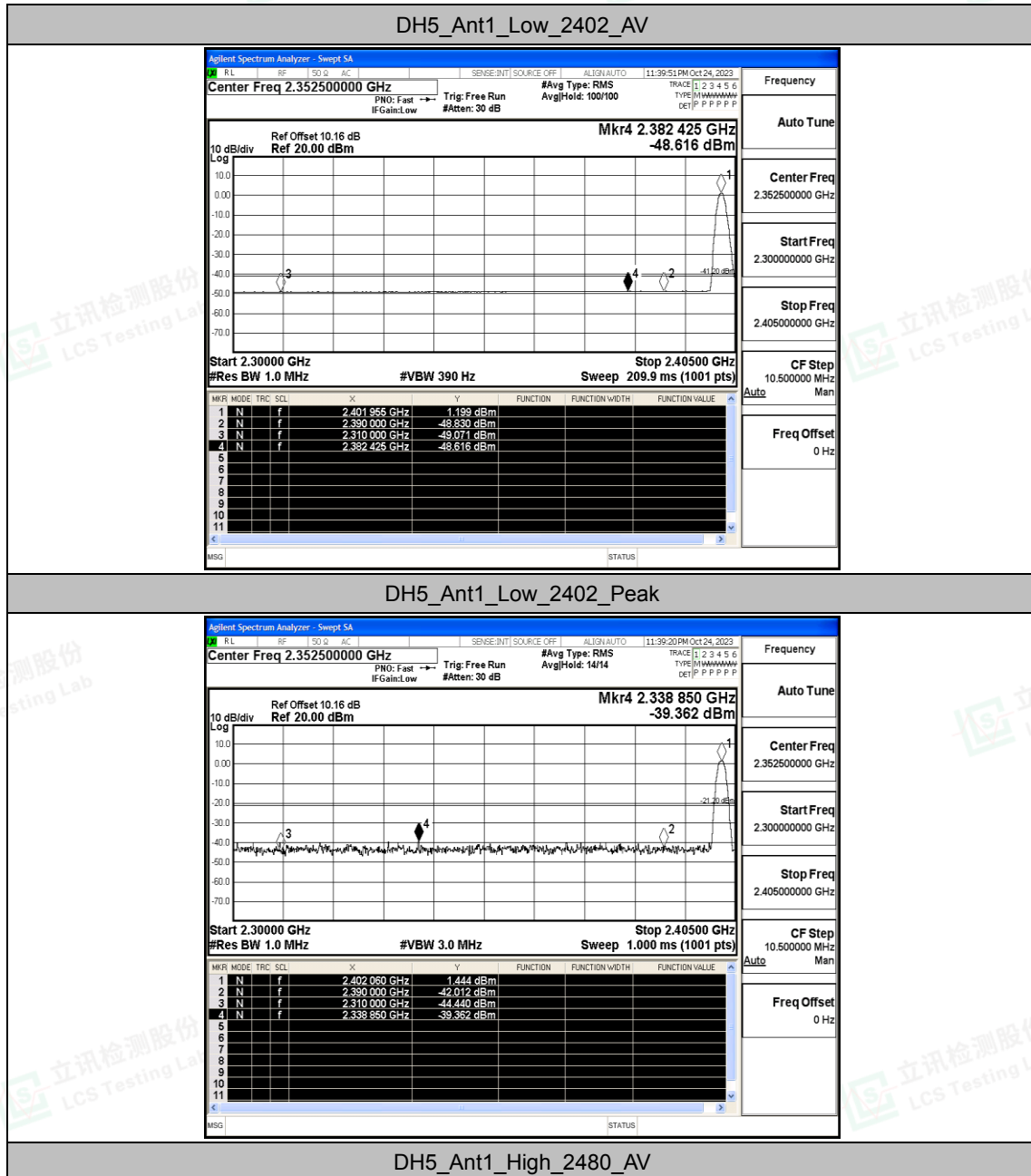
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Test Graphs

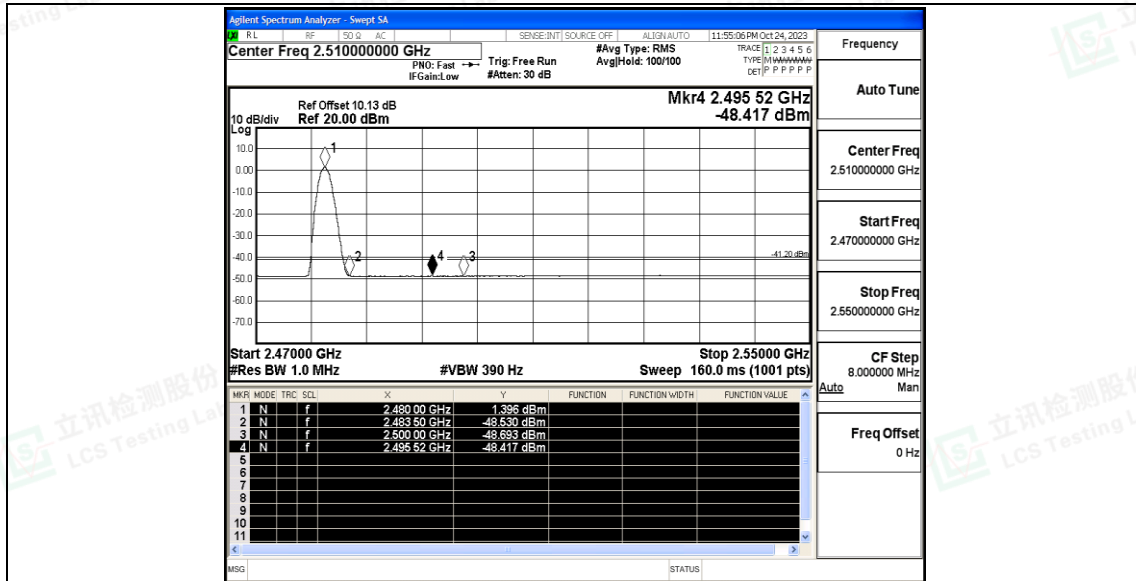


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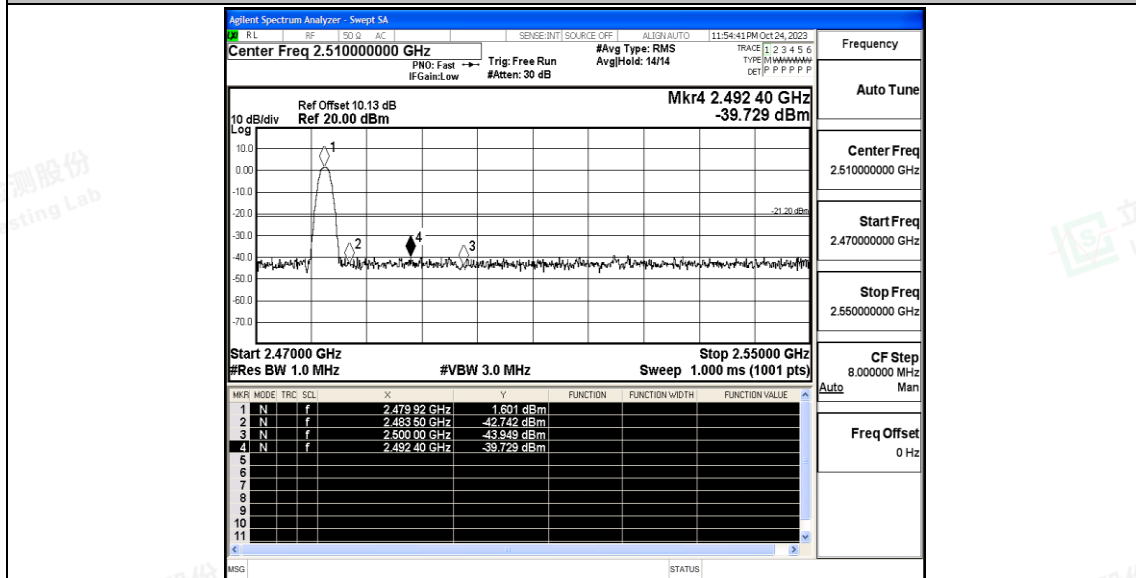
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

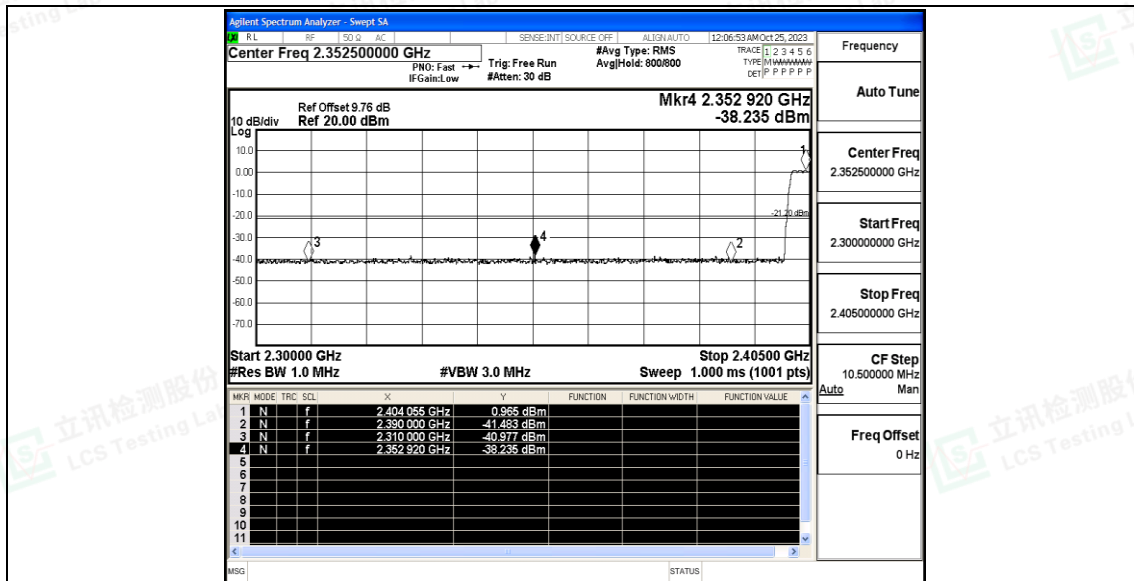


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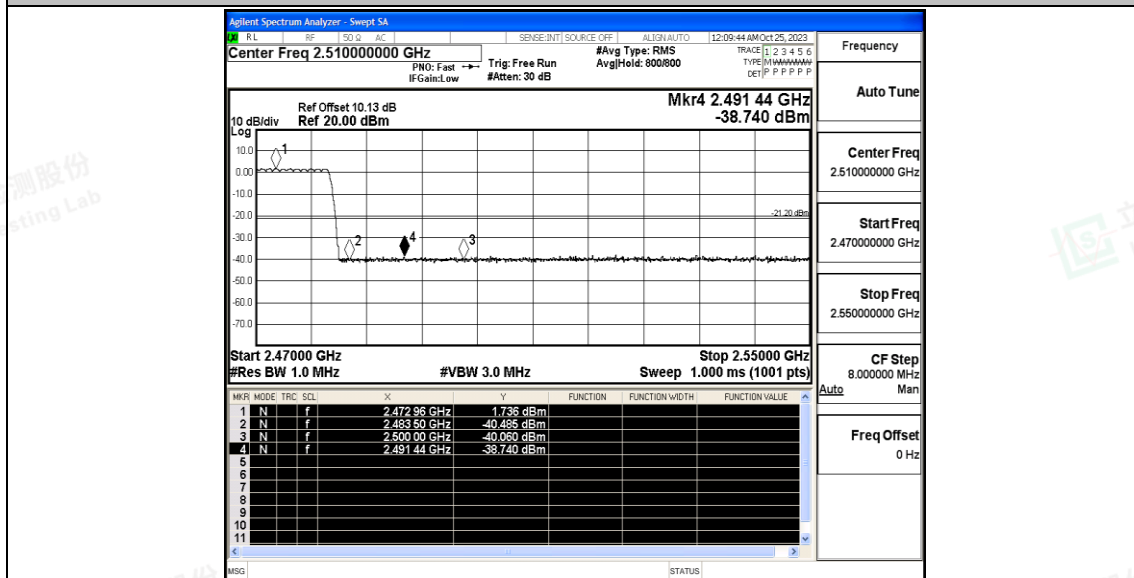
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

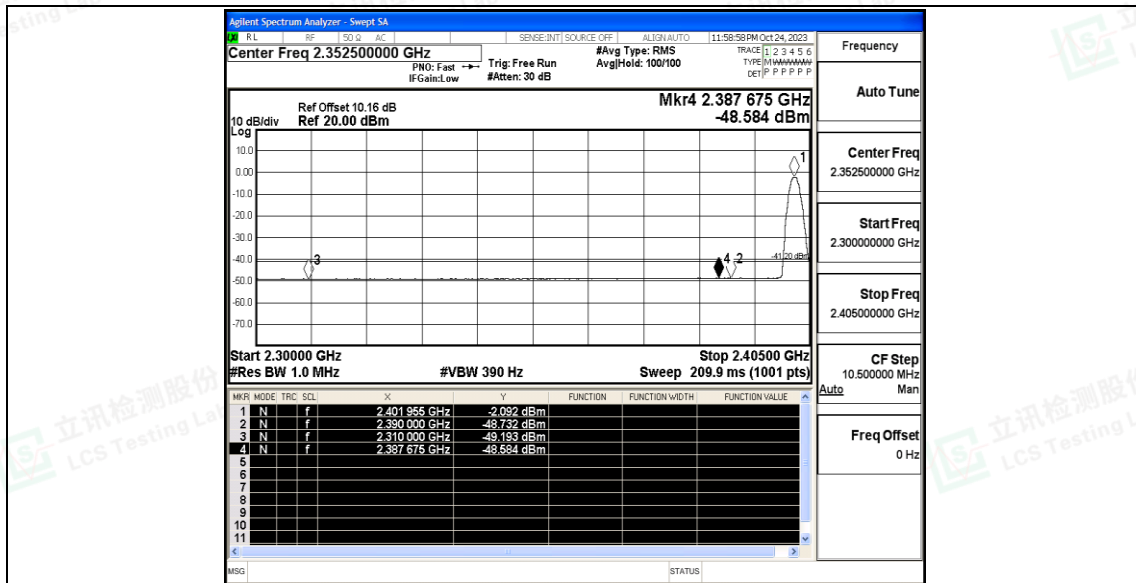


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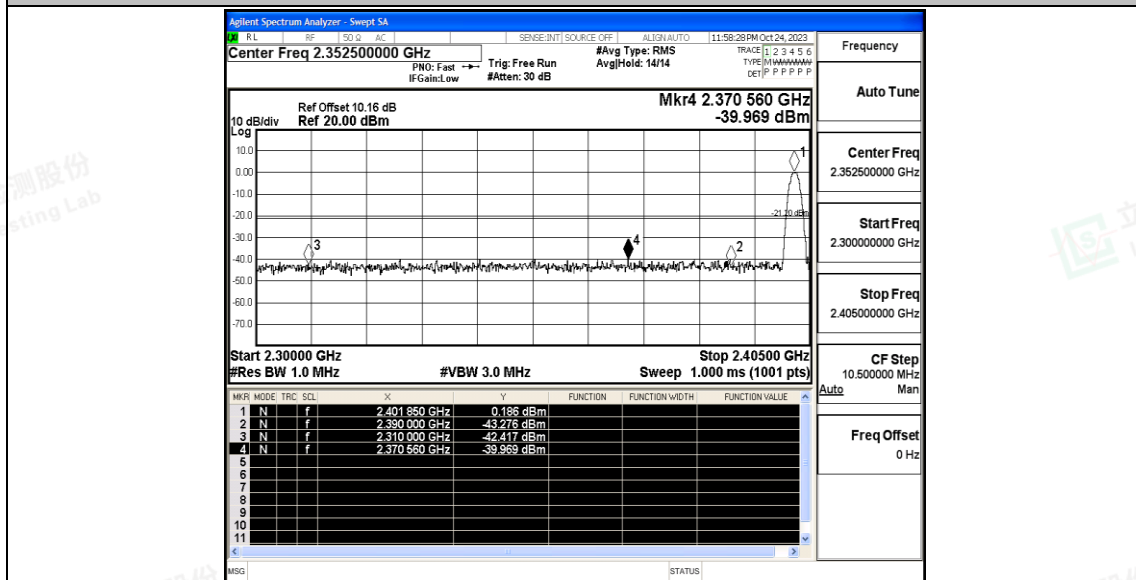
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

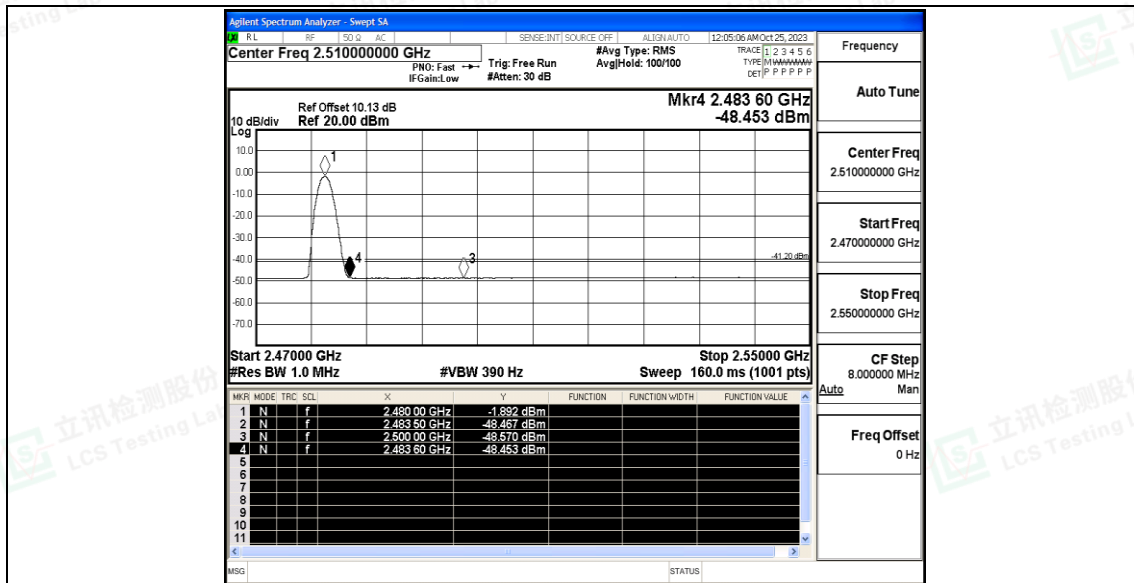


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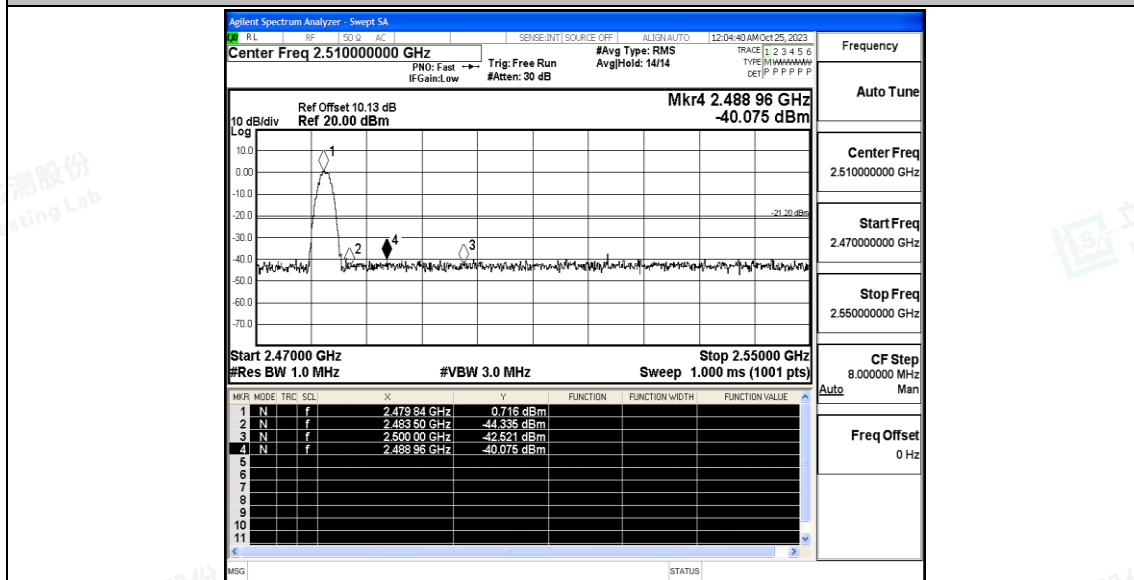
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

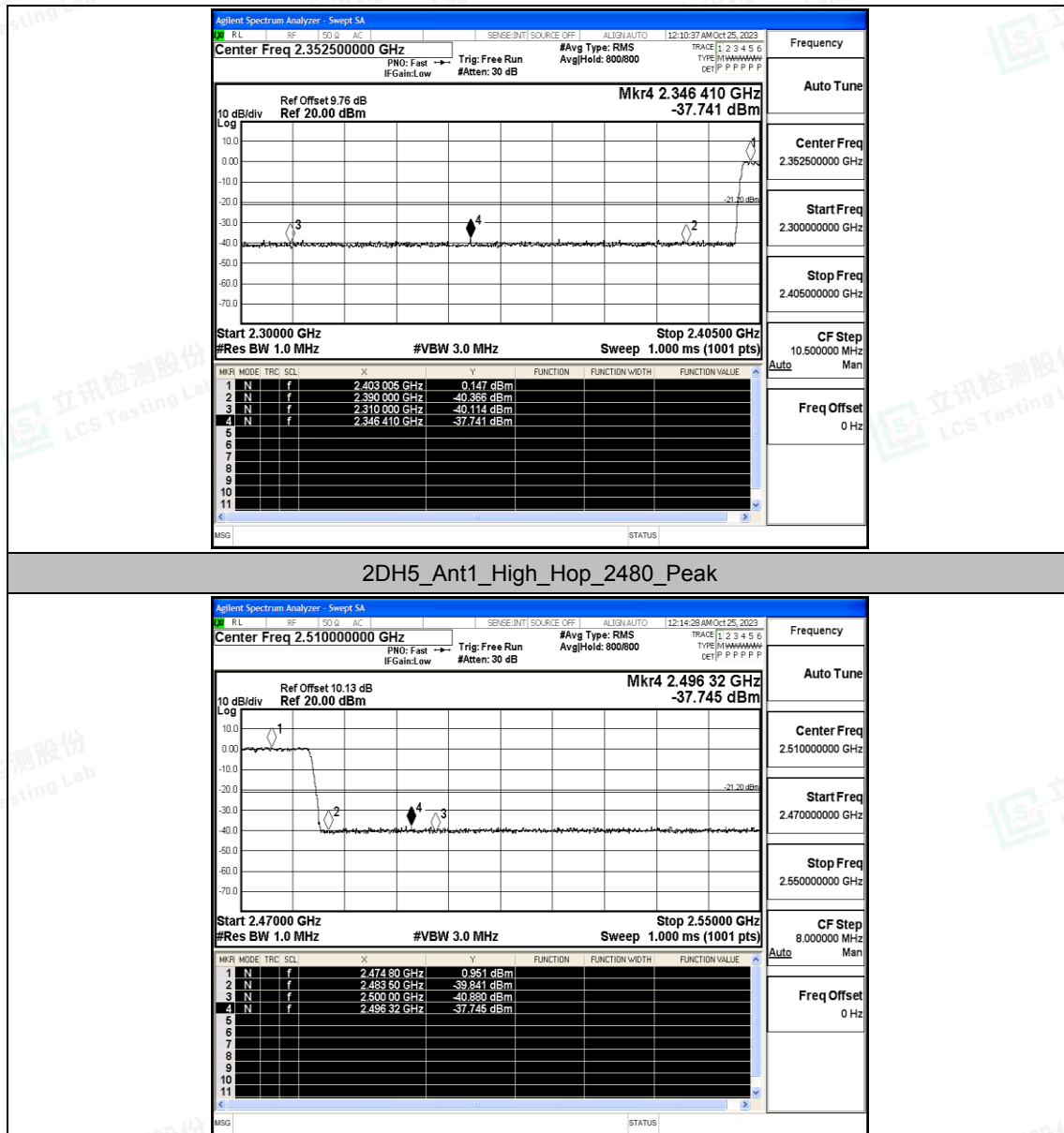


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