



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: IP PHONE

Test Model: CIP280V2

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun





A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.975	2401.538	2402.513	---	---
DH5	Ant1	2441	0.948	2440.541	2441.489	---	---
DH5	Ant1	2480	0.999	2479.487	2480.486	---	---
2DH5	Ant1	2402	1.326	2401.337	2402.663	---	---
2DH5	Ant1	2441	1.314	2440.343	2441.657	---	---
2DH5	Ant1	2480	1.308	2479.349	2480.657	---	---
3DH5	Ant1	2402	1.299	2401.349	2402.648	---	---
3DH5	Ant1	2441	1.284	2440.349	2441.633	---	---
3DH5	Ant1	2480	1.332	2479.334	2480.666	---	---



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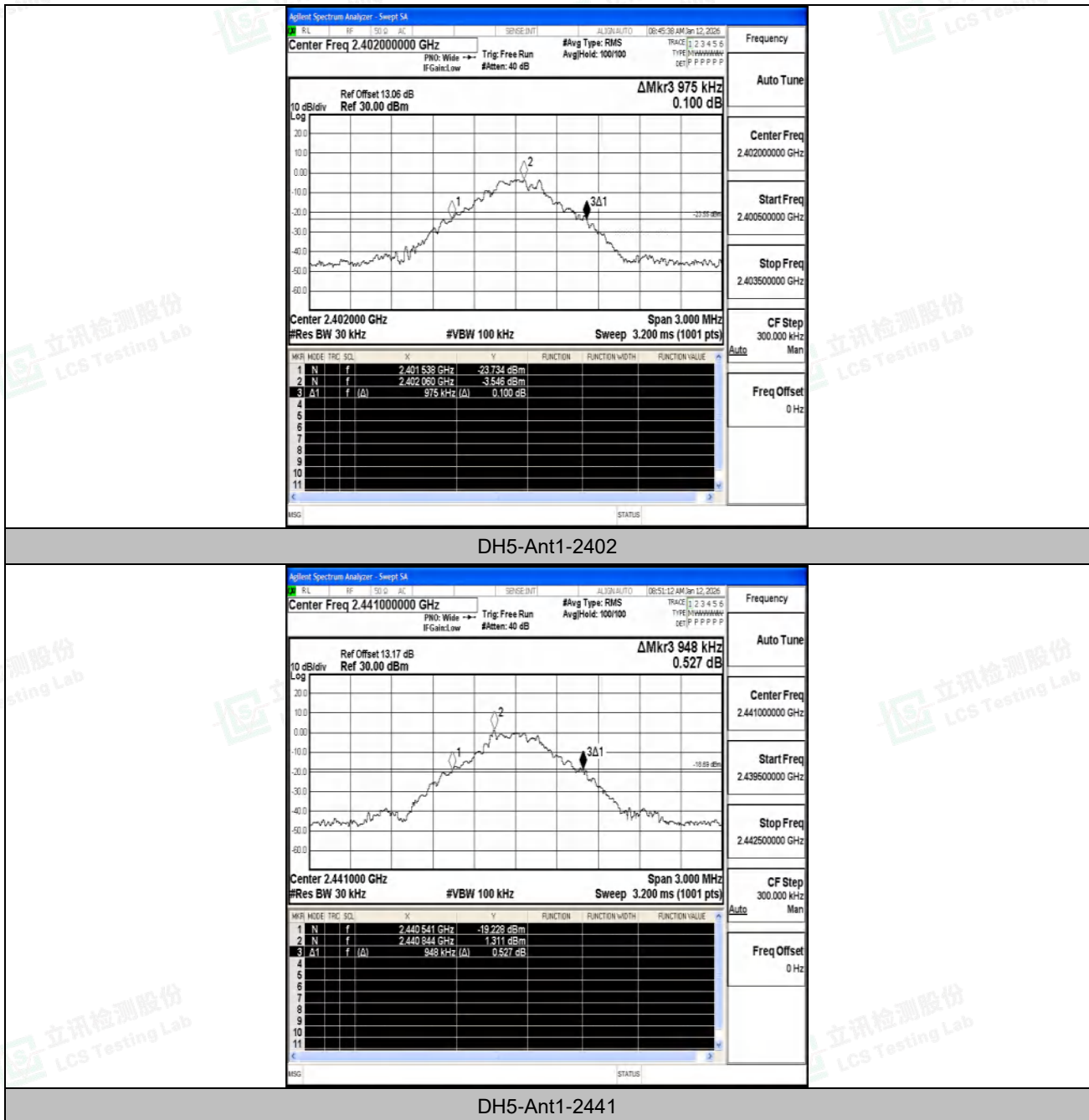
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Test Graphs

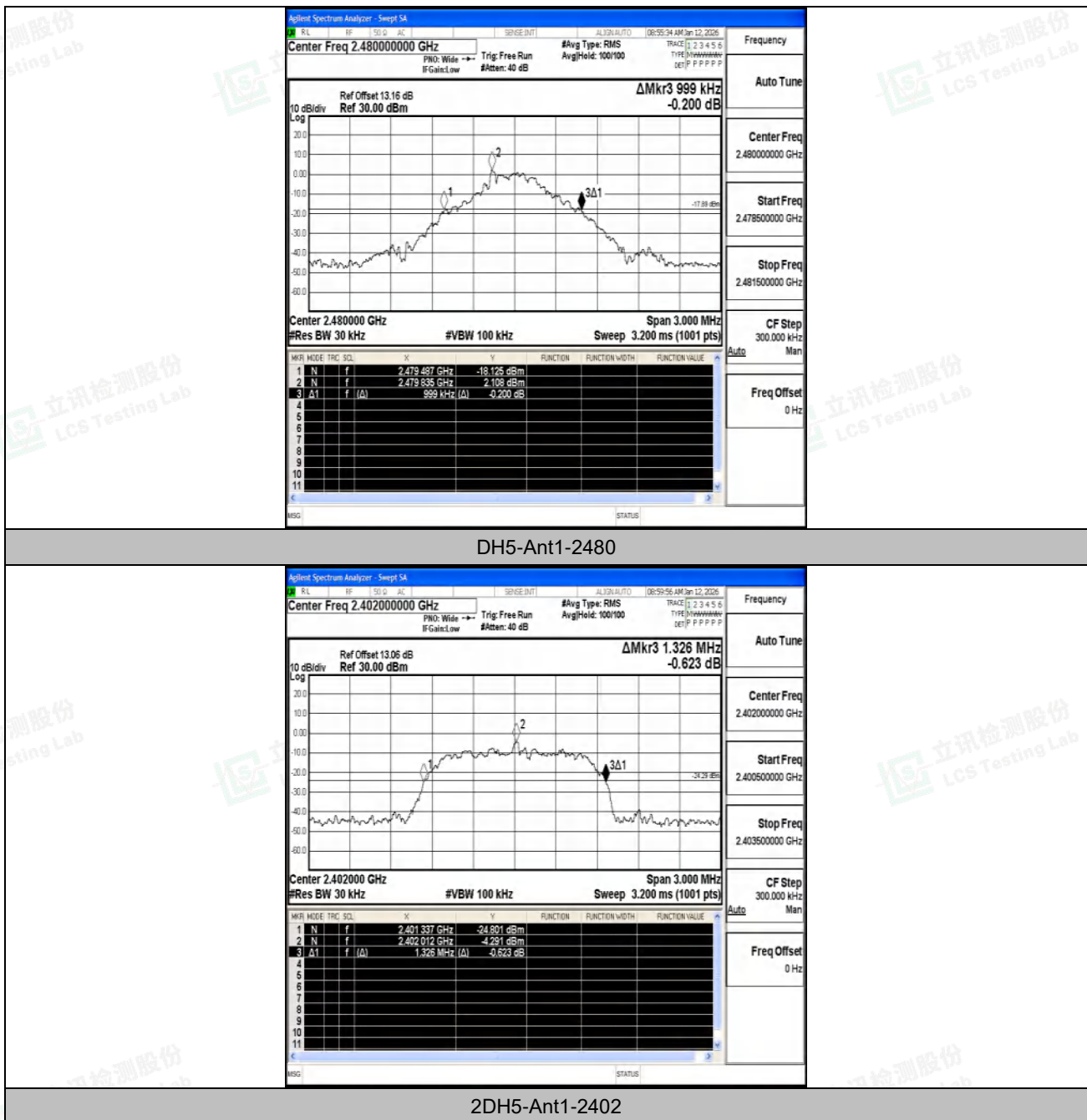


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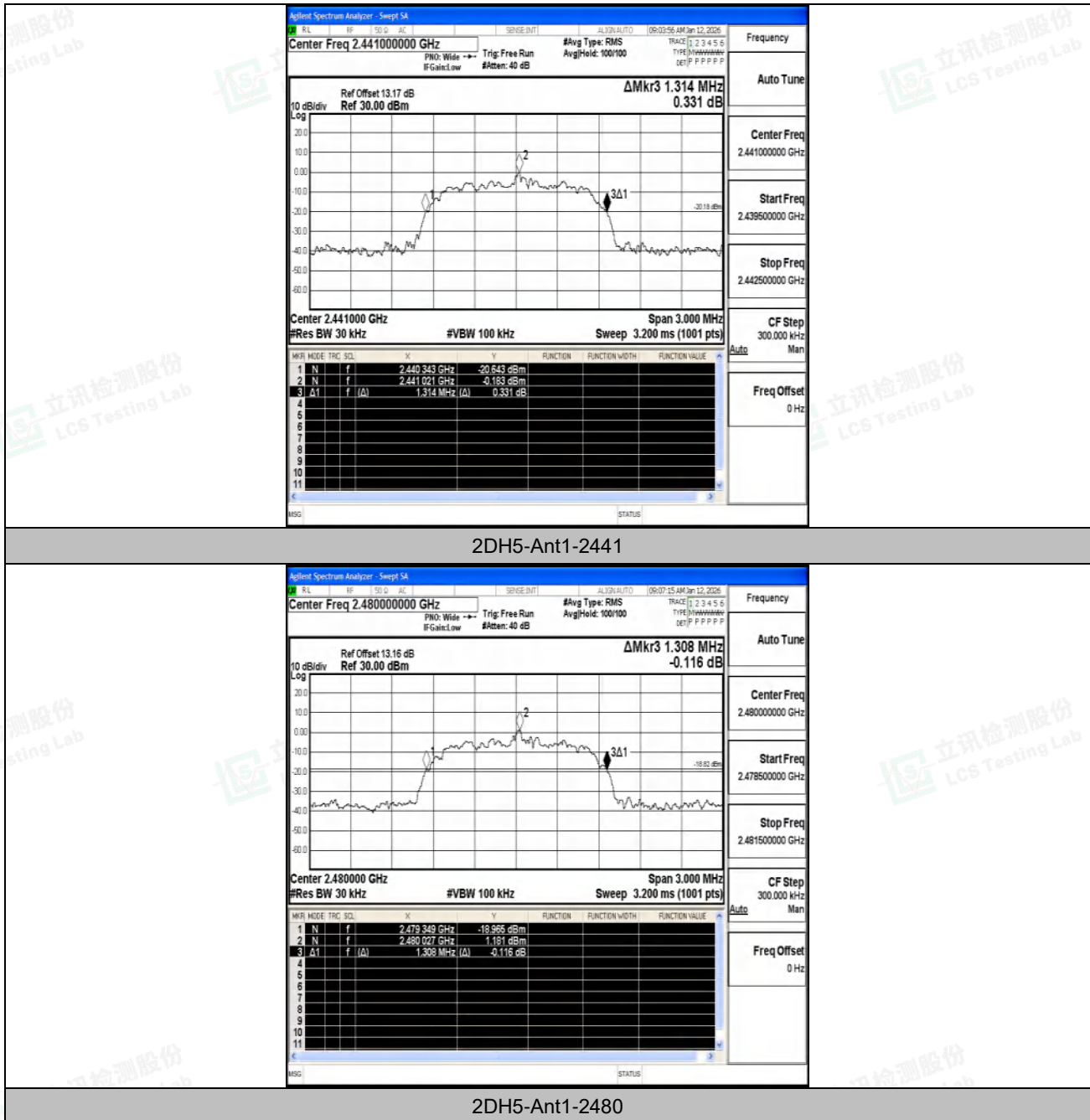


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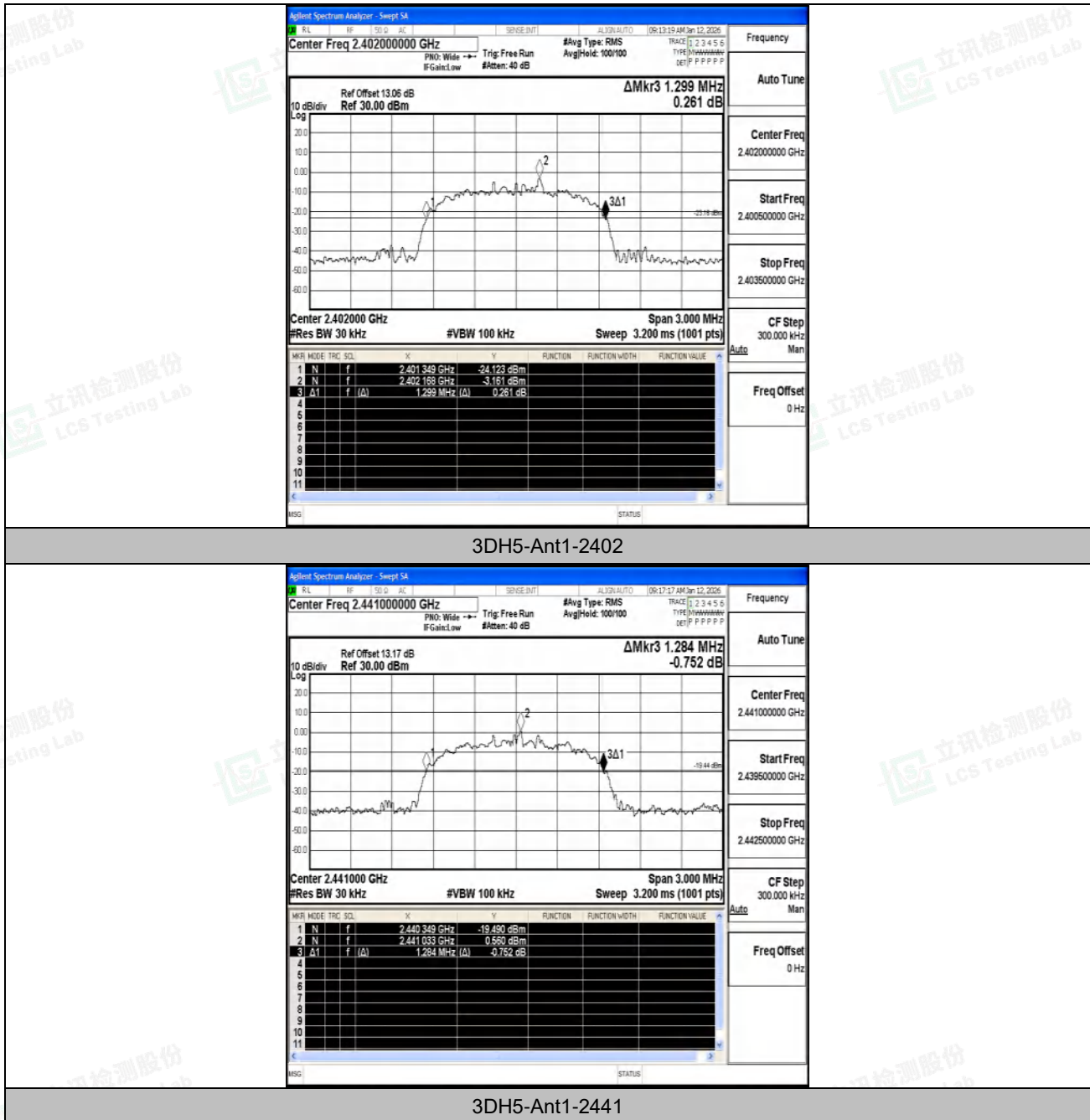


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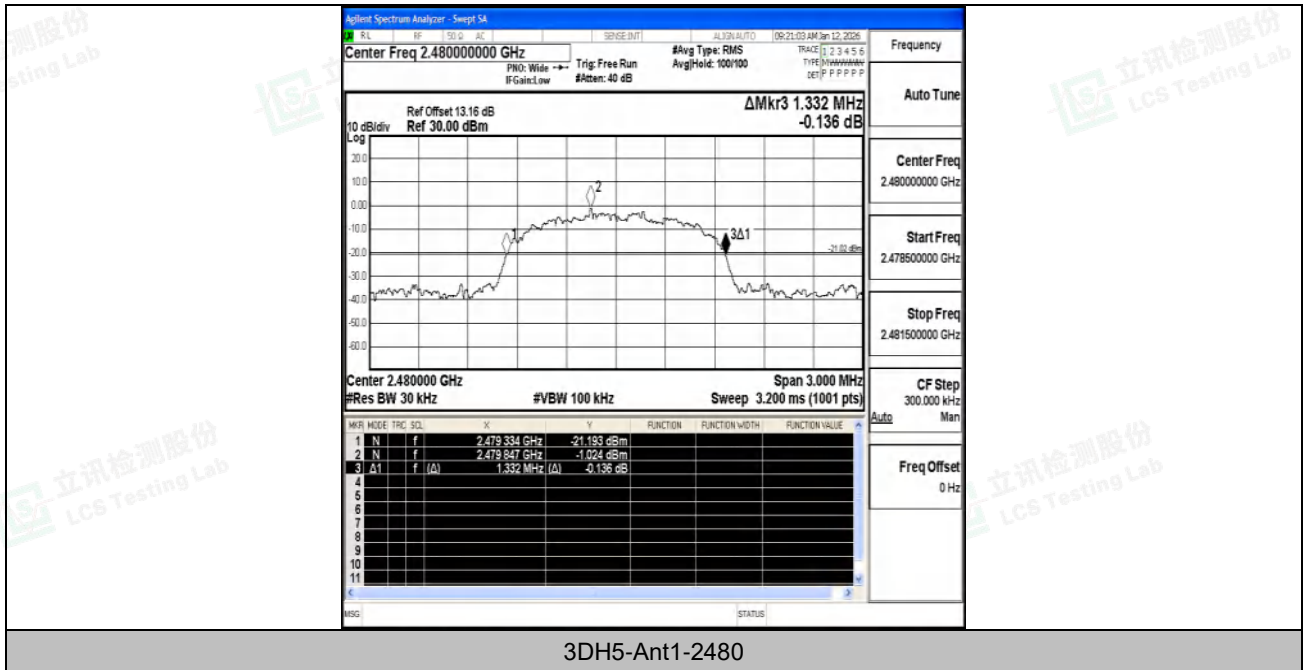


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A.2 Maximum Peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.26	≤20.97	PASS
DH5	Ant1	2441	2.97	≤20.97	PASS
DH5	Ant1	2480	3.76	≤20.97	PASS
2DH5	Ant1	2402	1.23	≤20.97	PASS
2DH5	Ant1	2441	4.13	≤20.97	PASS
2DH5	Ant1	2480	4.63	≤20.97	PASS
3DH5	Ant1	2402	1.58	≤20.97	PASS
3DH5	Ant1	2441	4.25	≤20.97	PASS
3DH5	Ant1	2480	4.66	≤20.97	PASS



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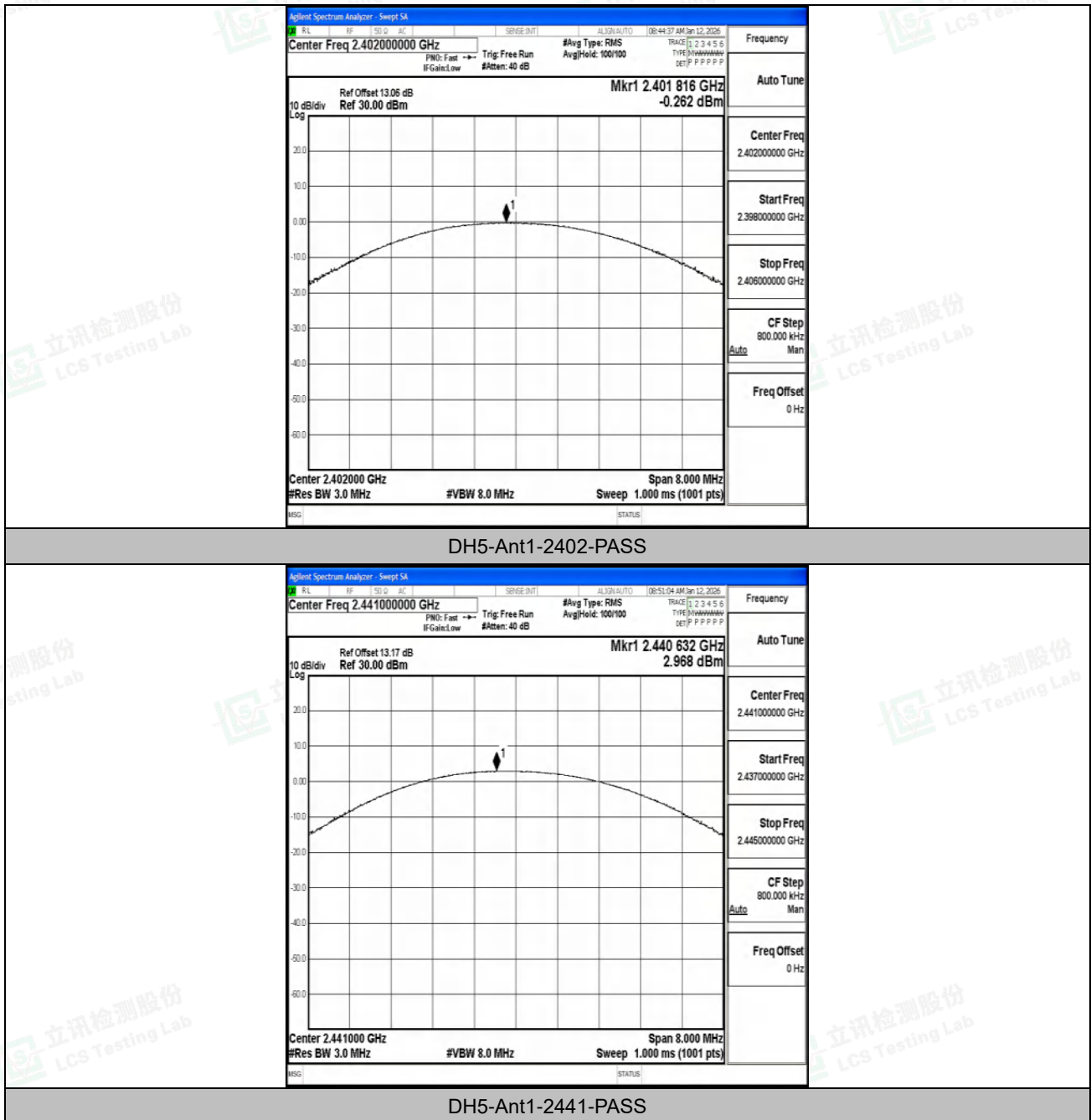
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Test Graphs

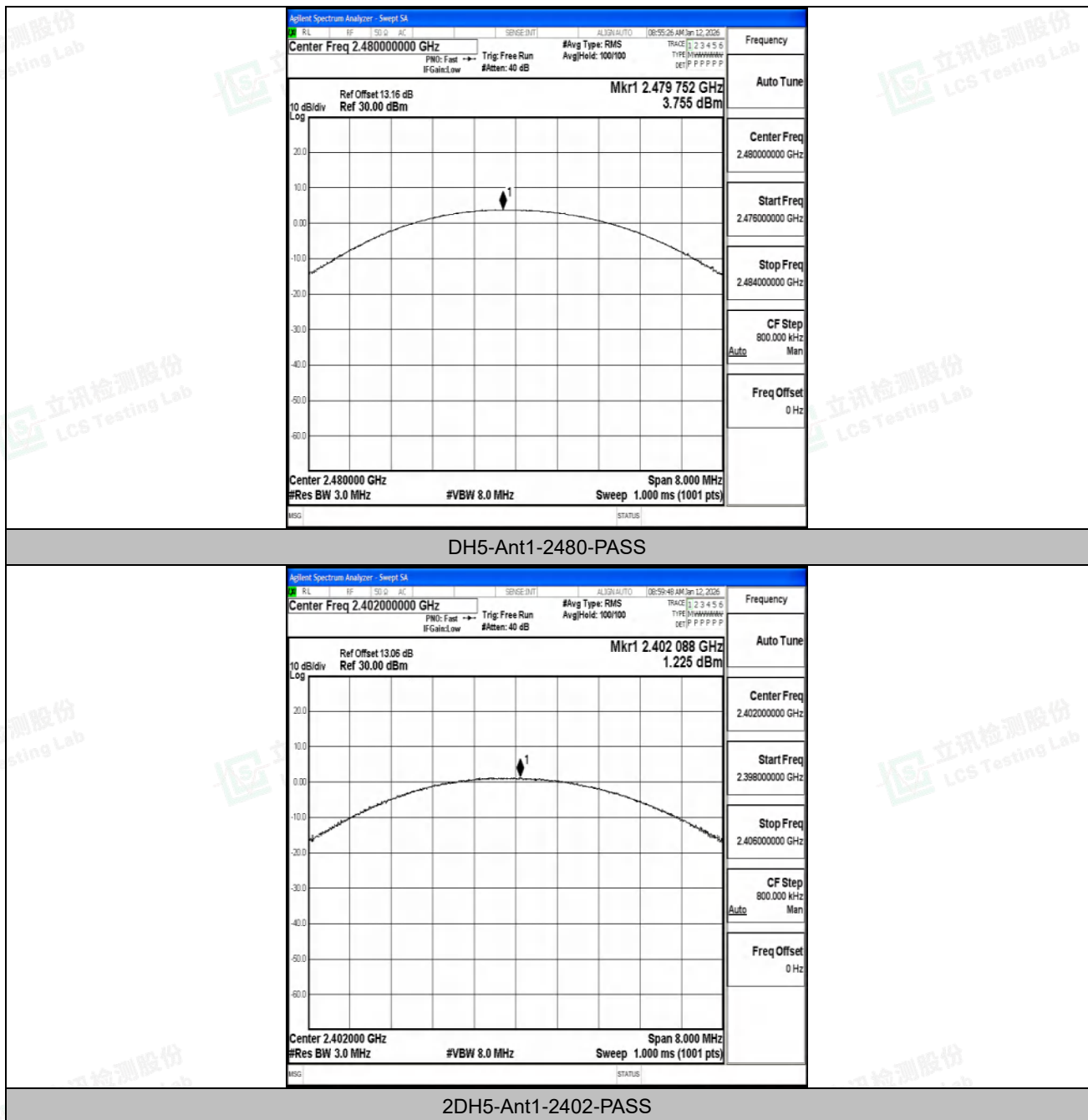


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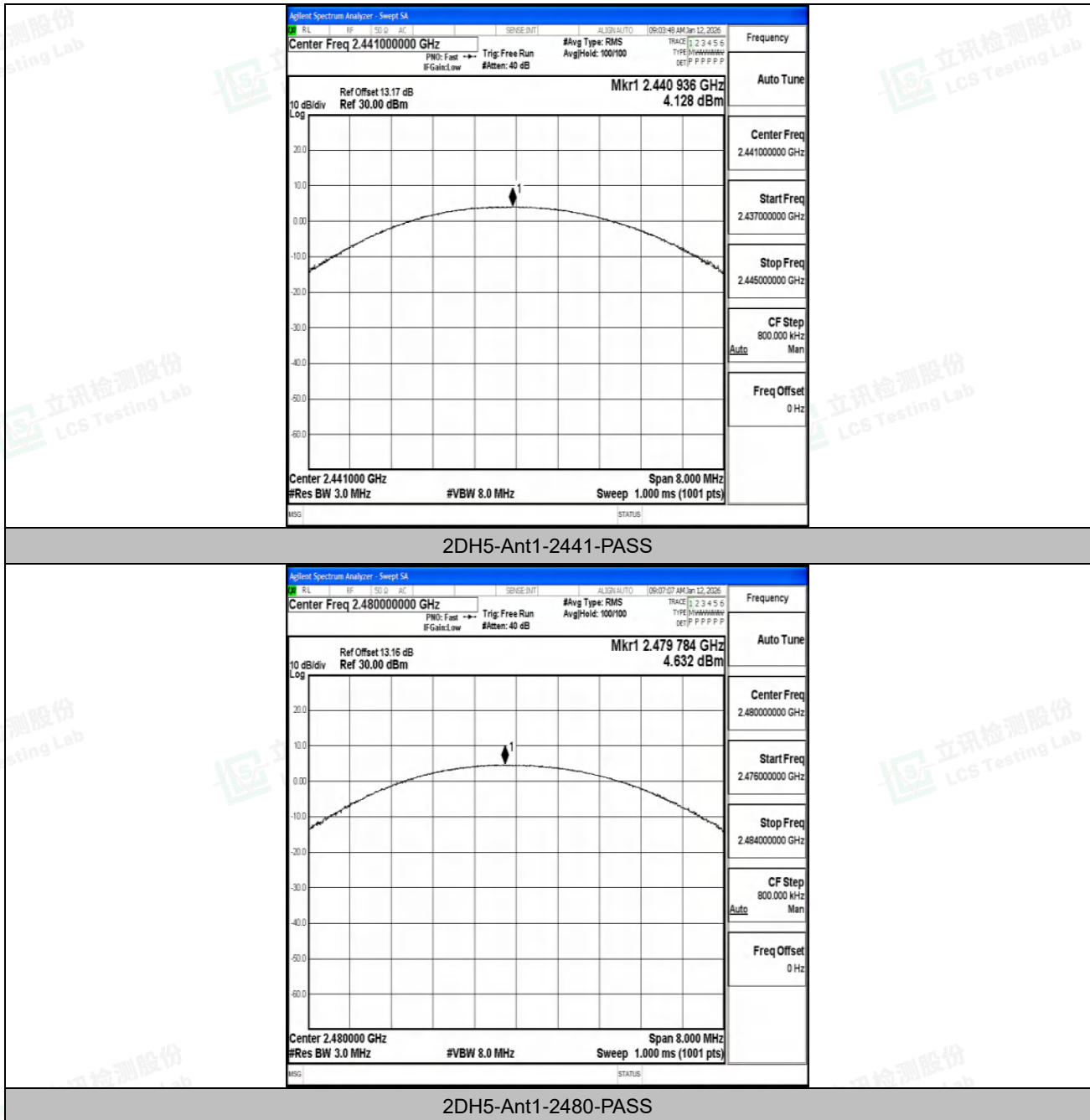


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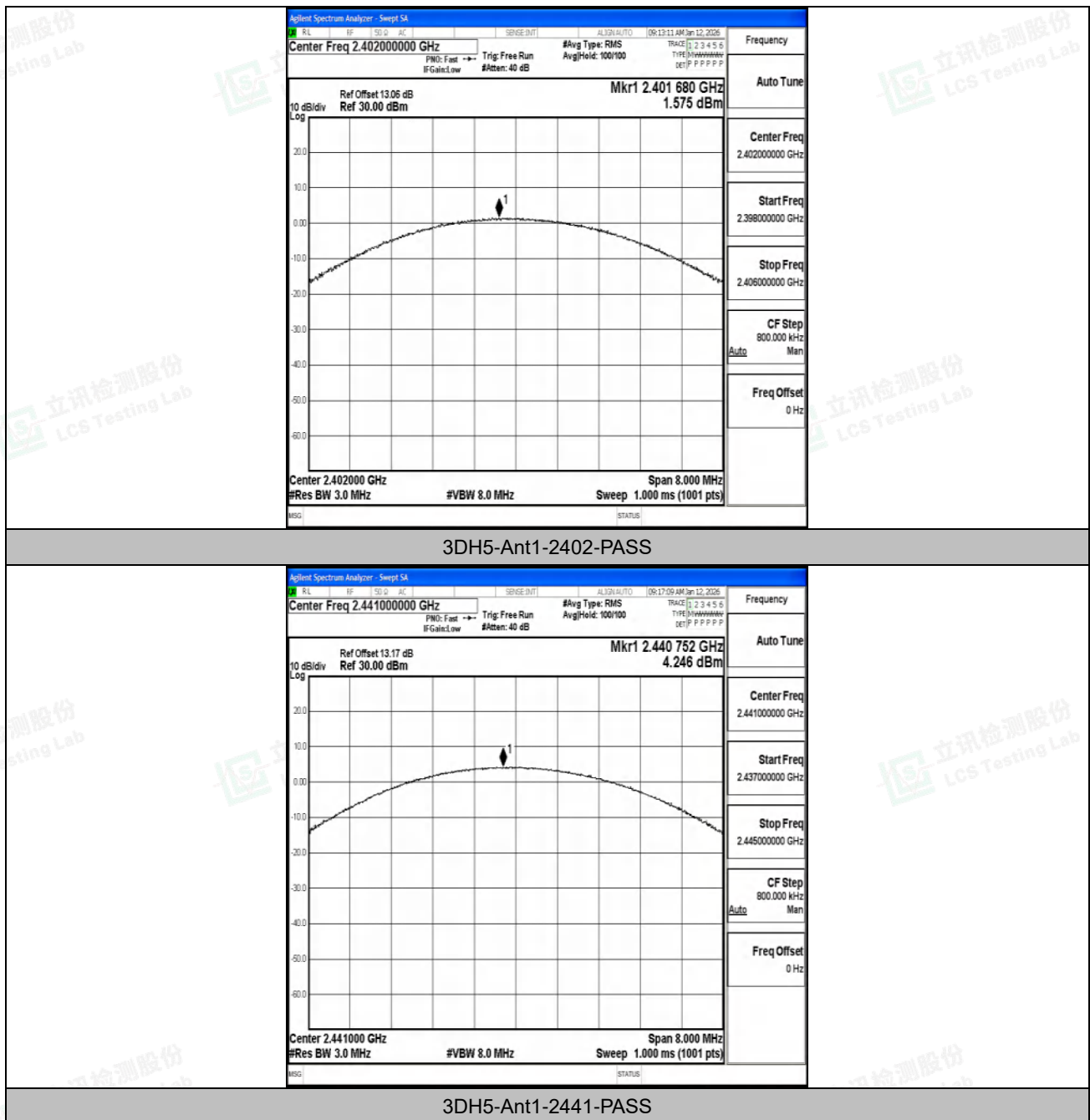


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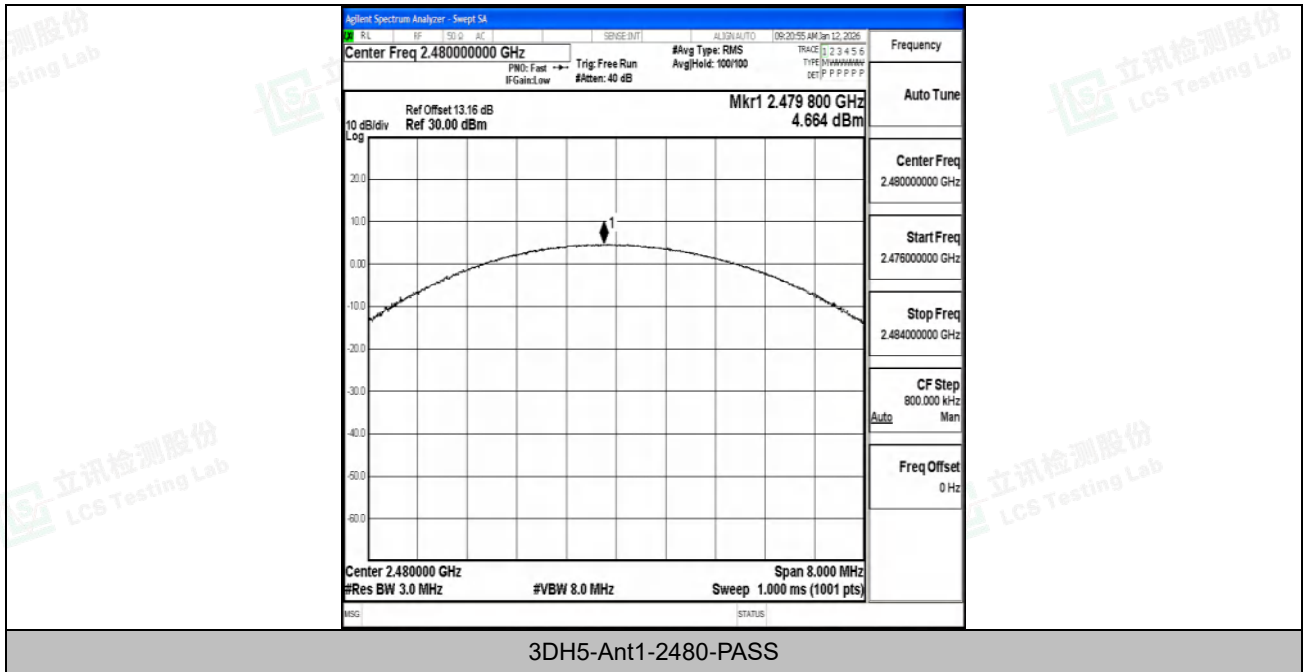


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A.3 Carrier frequency separation

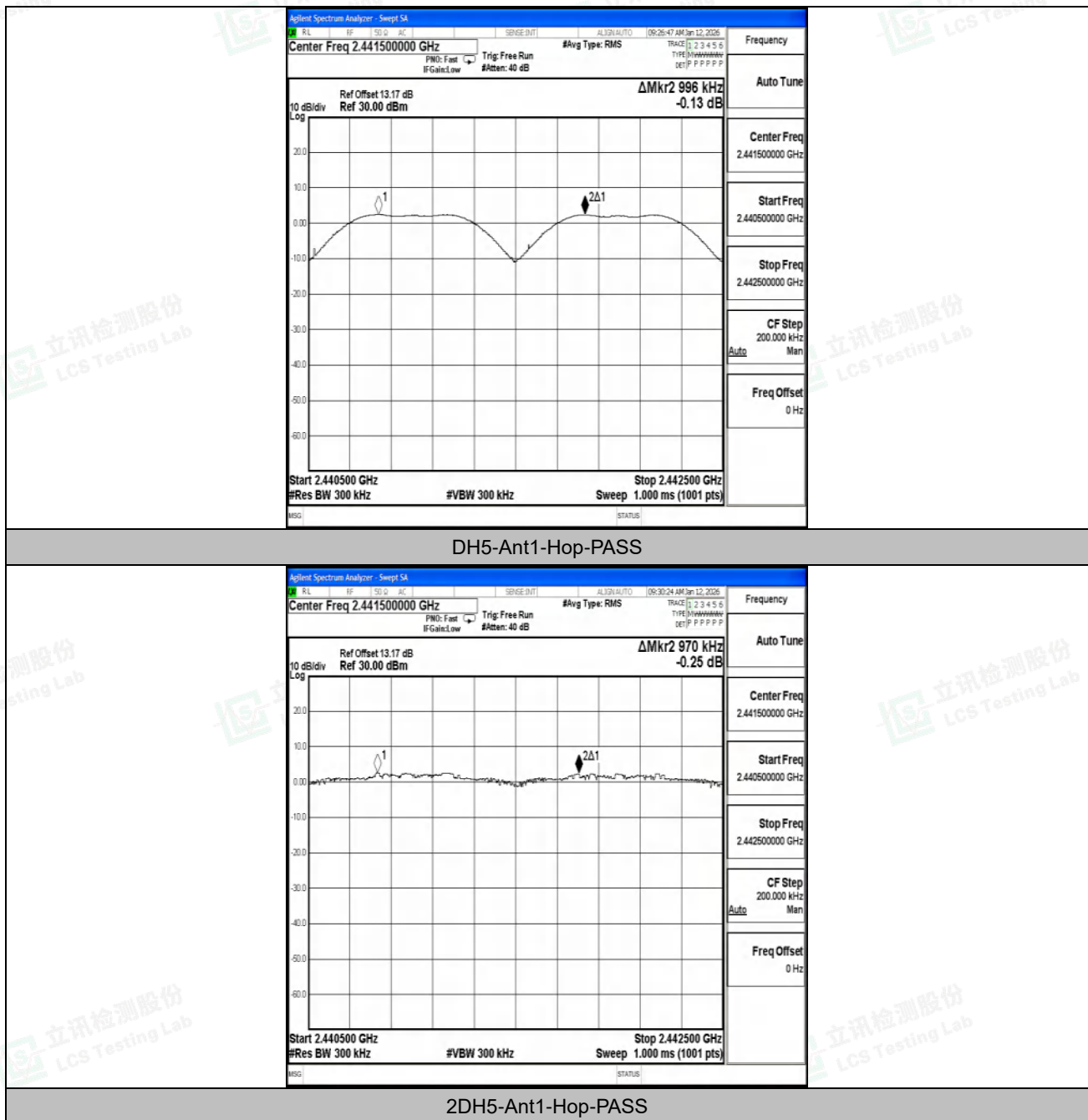
Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥0.666	PASS
2DH5	Ant1	Hop	0.97	≥0.884	PASS
3DH5	Ant1	Hop	1.186	≥0.888	PASS





Test Graphs

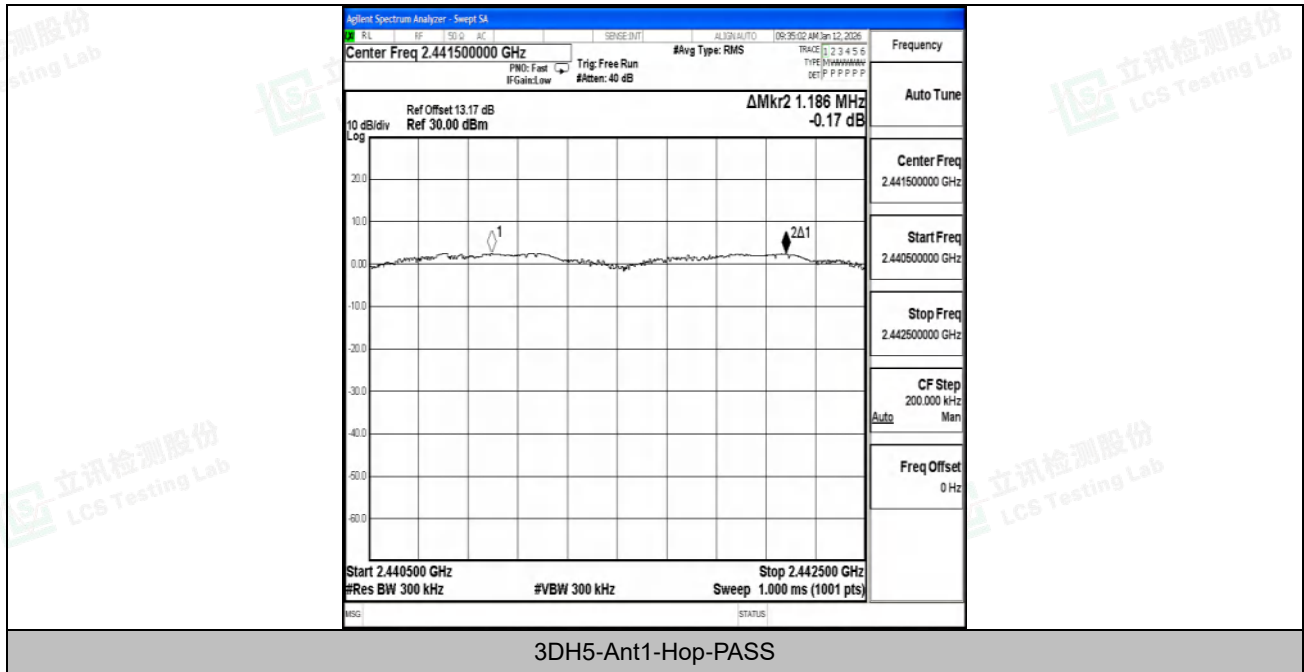


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A.4 Time of occupancy

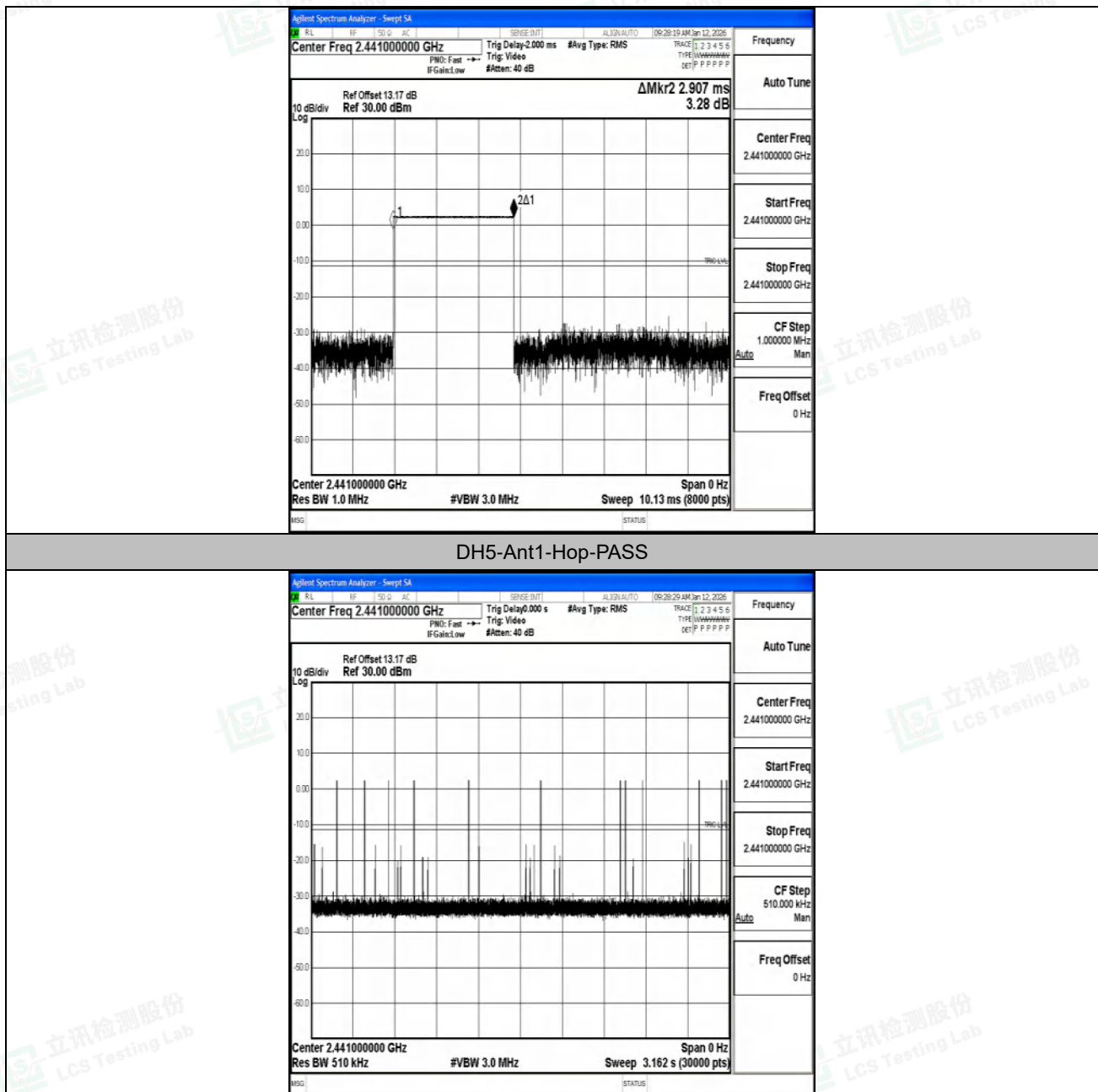
Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.907	130	0.378	≤0.4	PASS
2DH5	Ant1	Hop	2.897	50	0.145	≤0.4	PASS
3DH5	Ant1	Hop	2.896	110	0.319	≤0.4	PASS





Test Graphs

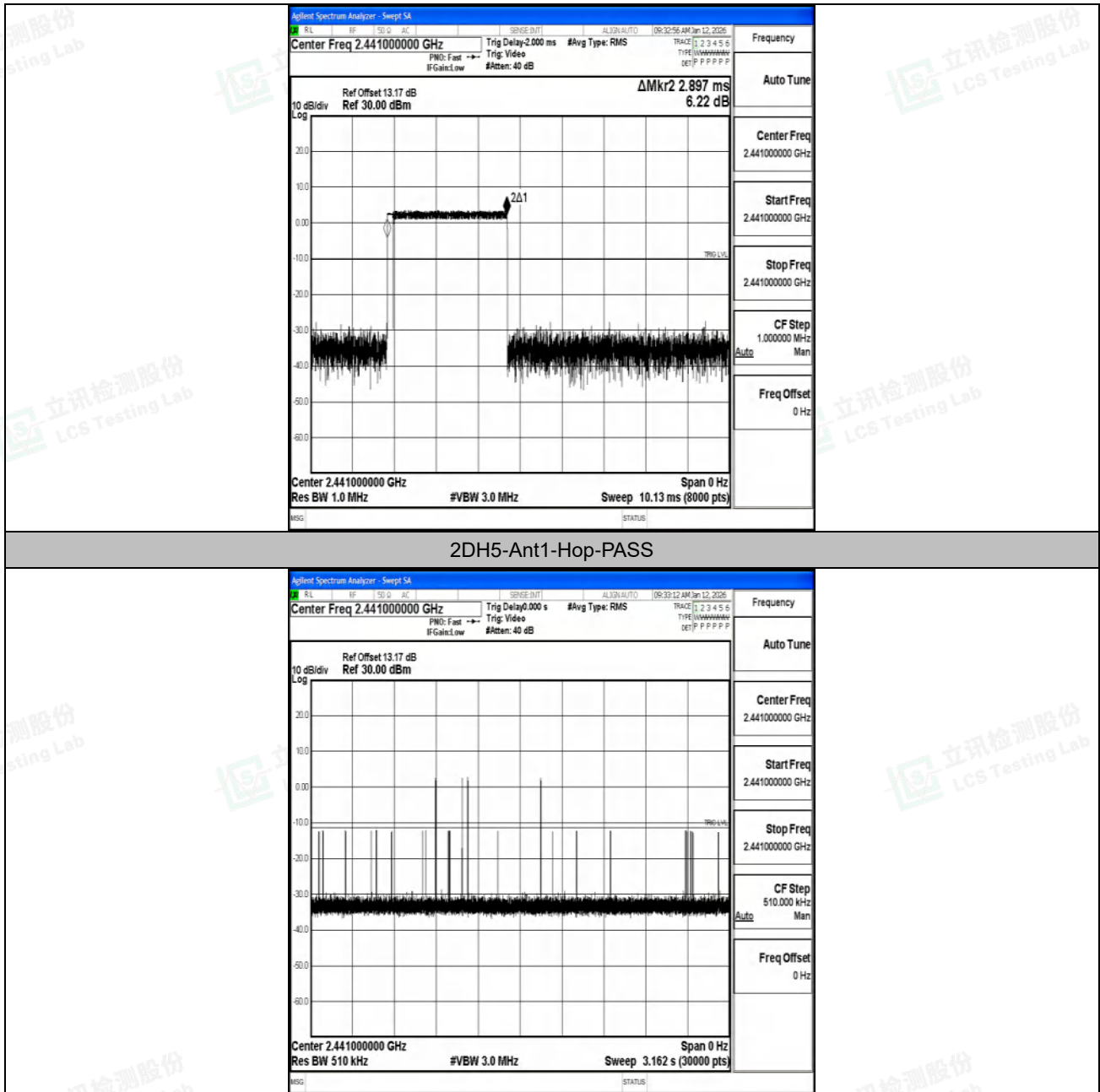


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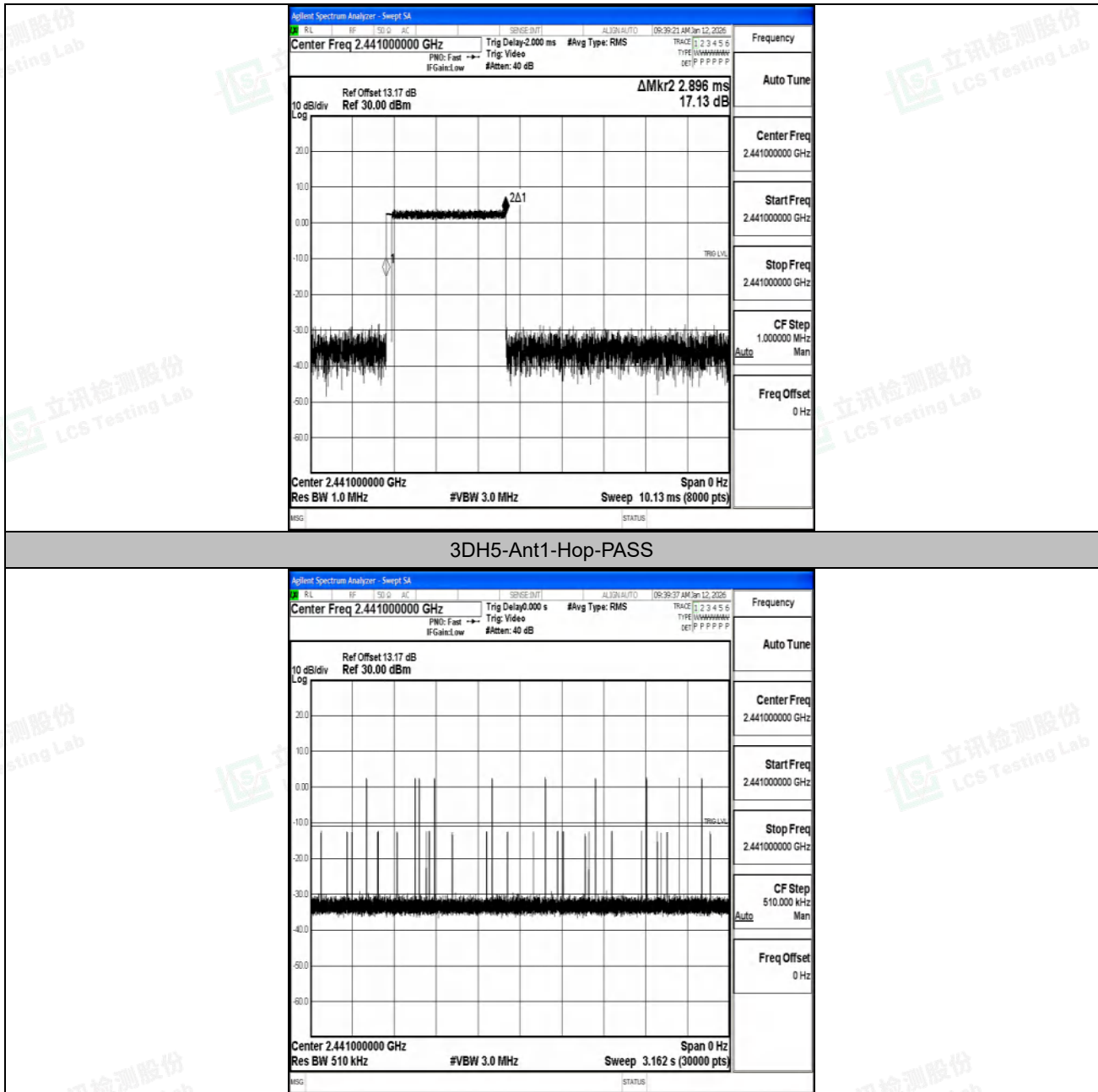


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A.5 Number of hopping channels

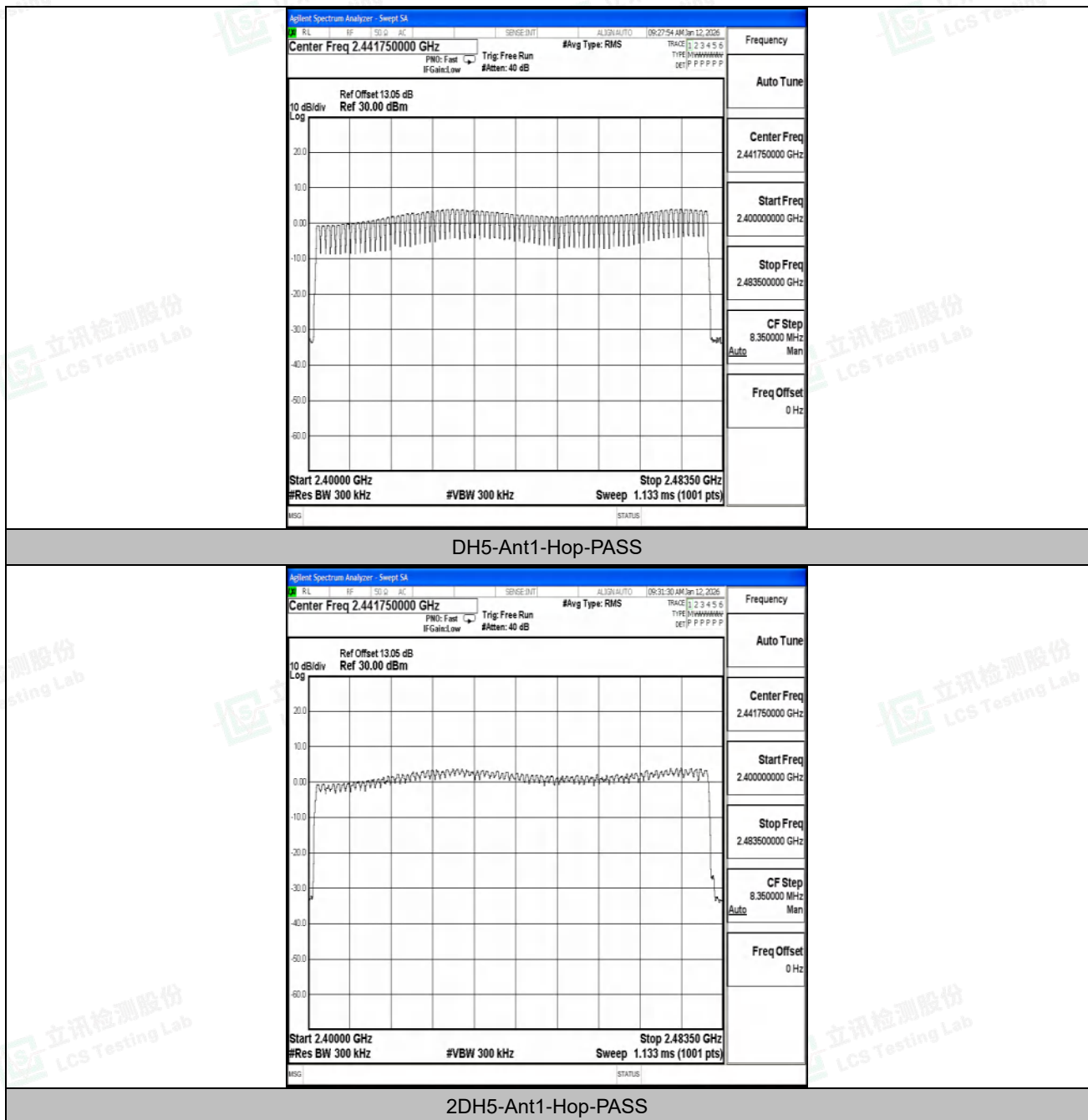
Test Result

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





Test Graphs

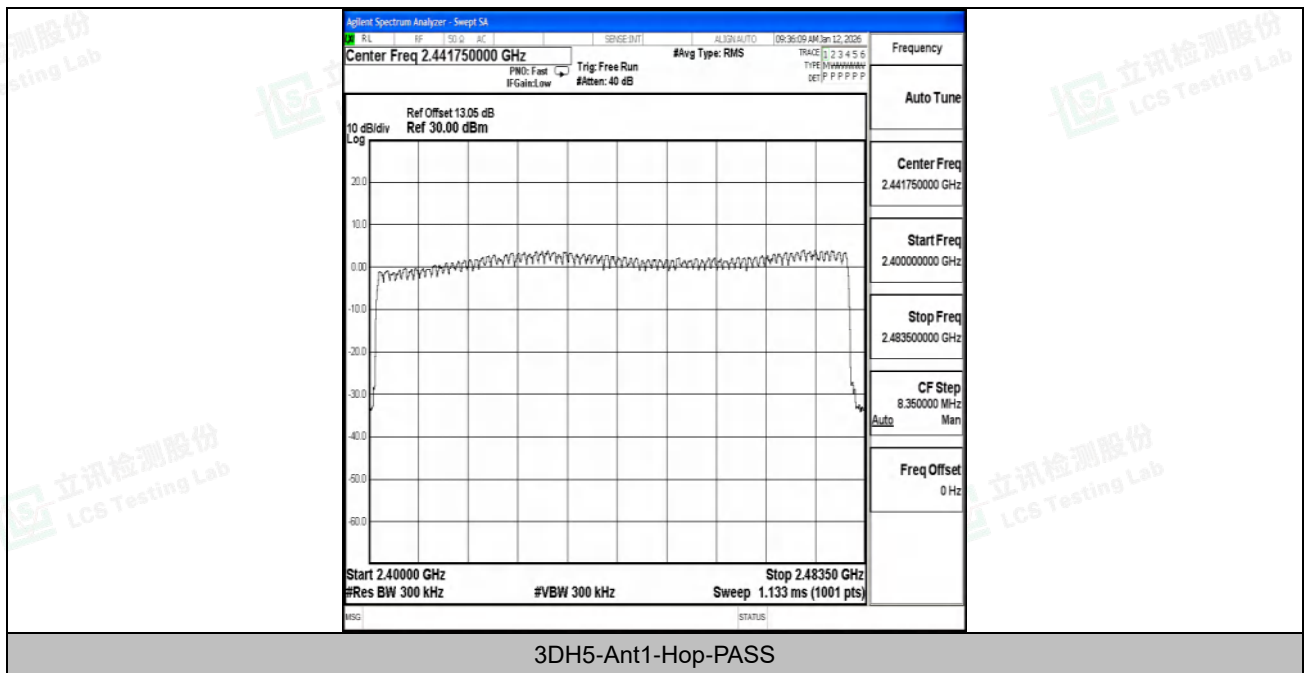


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A.6 Band edge measurements

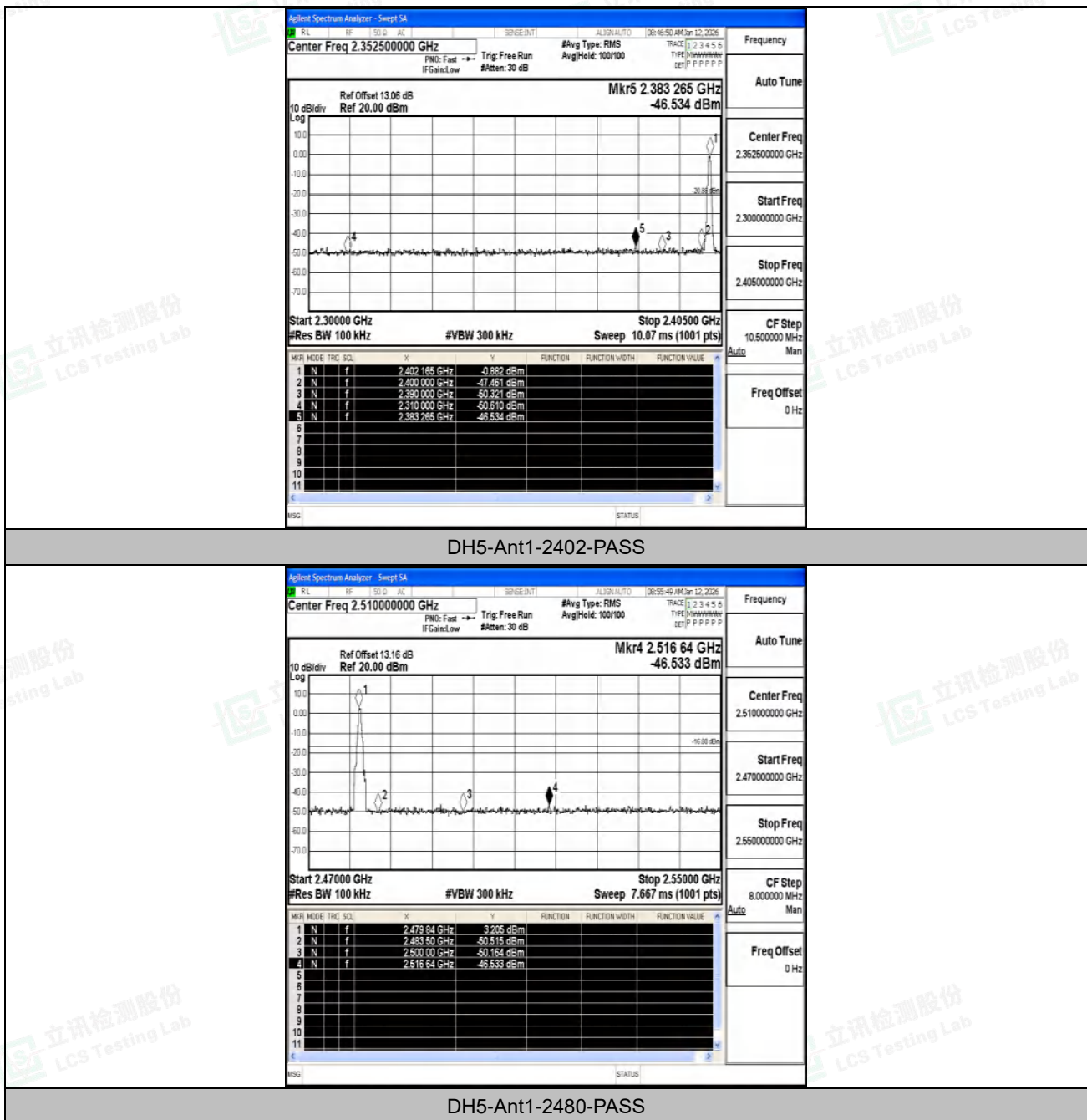
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.88	-46.53	≤ -20.88	PASS
DH5	Ant1	High	2480	3.21	-46.53	≤ -16.8	PASS
DH5	Ant1	Low	Hop_2402	-2.12	-46.9	≤ -22.12	PASS
DH5	Ant1	High	Hop_2480	2.21	-46.23	≤ -17.79	PASS
2DH5	Ant1	Low	2402	-3.34	-46.58	≤ -23.34	PASS
2DH5	Ant1	High	2480	3.19	-46.07	≤ -16.81	PASS
2DH5	Ant1	Low	Hop_2402	-6.32	-46.67	≤ -26.32	PASS
2DH5	Ant1	High	Hop_2480	1.20	-46.18	≤ -18.8	PASS
3DH5	Ant1	Low	2402	-1.16	-46.71	≤ -21.16	PASS
3DH5	Ant1	High	2480	0.64	-46.3	≤ -19.36	PASS
3DH5	Ant1	Low	Hop_2402	-3.86	-46.02	≤ -23.86	PASS
3DH5	Ant1	High	Hop_2480	0.85	-46	≤ -19.15	PASS





Test Graphs

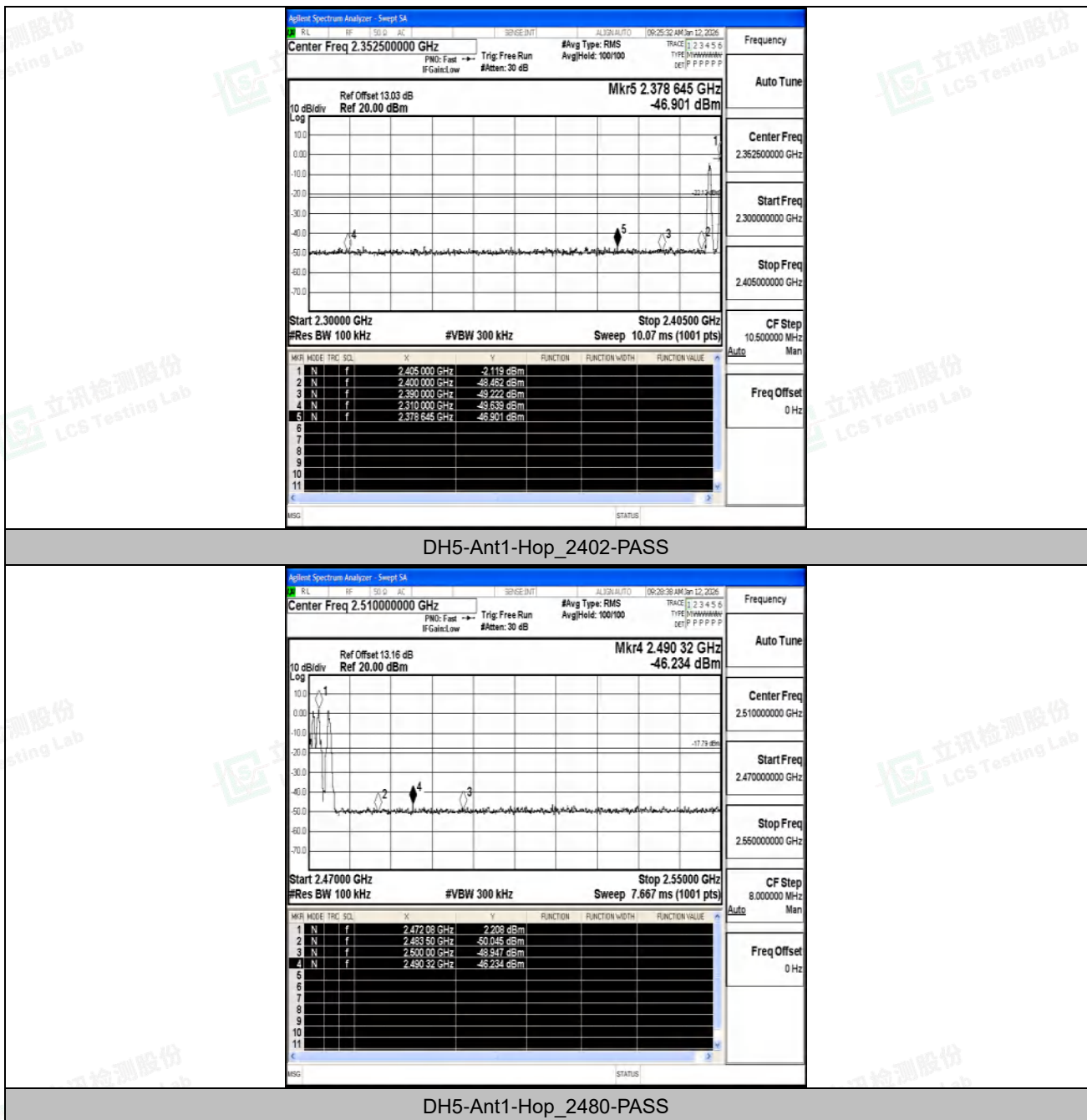


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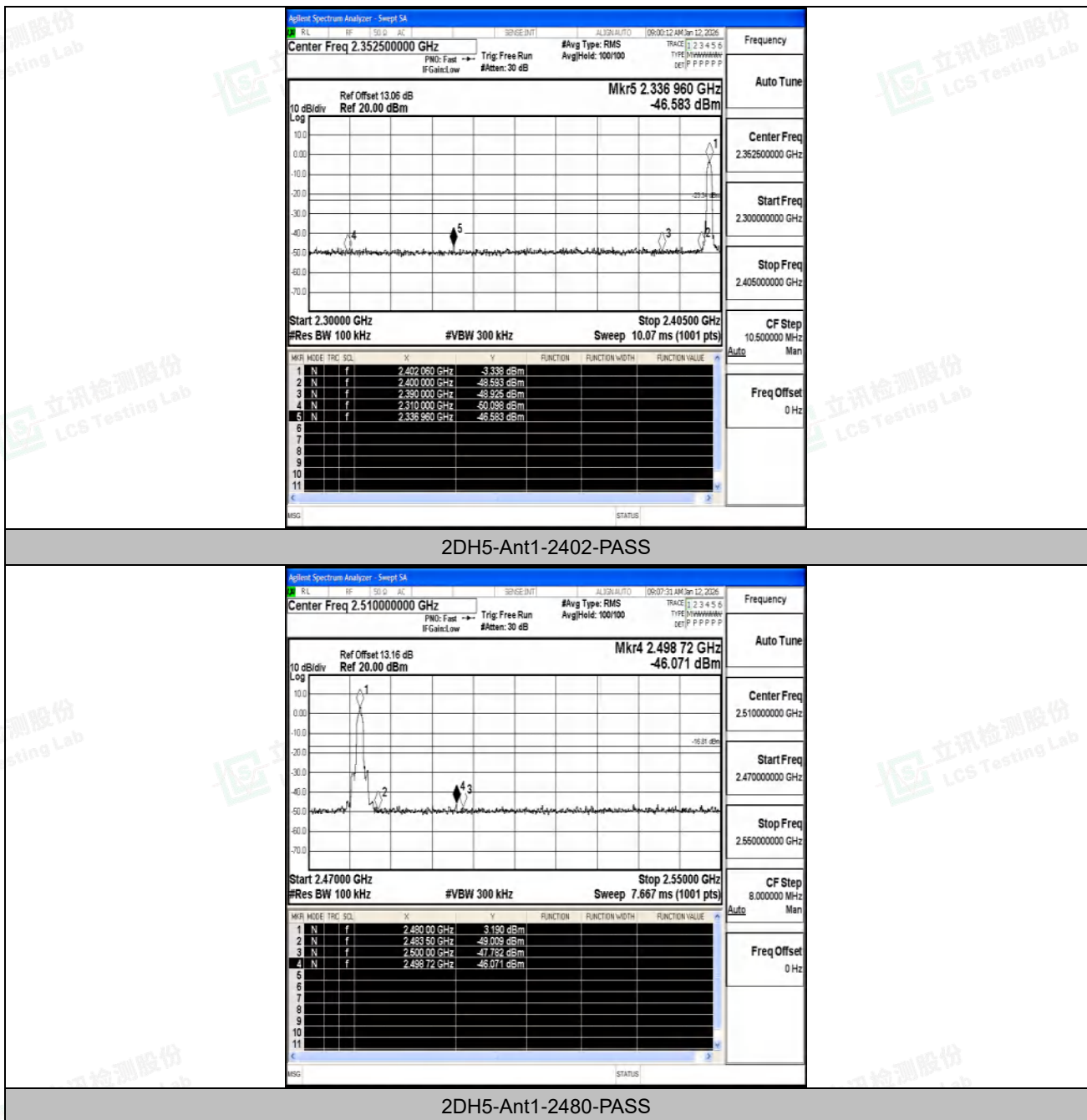


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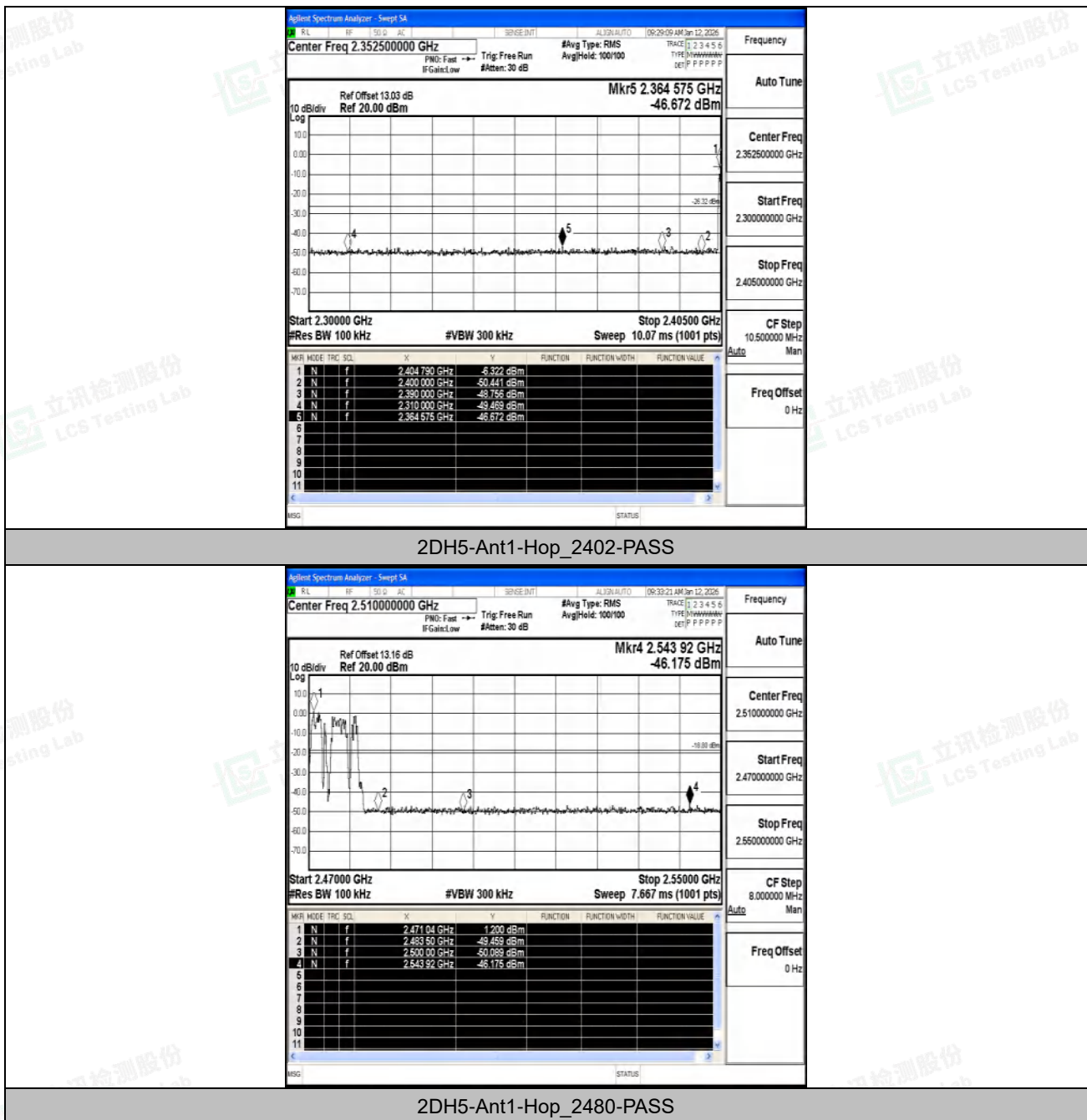


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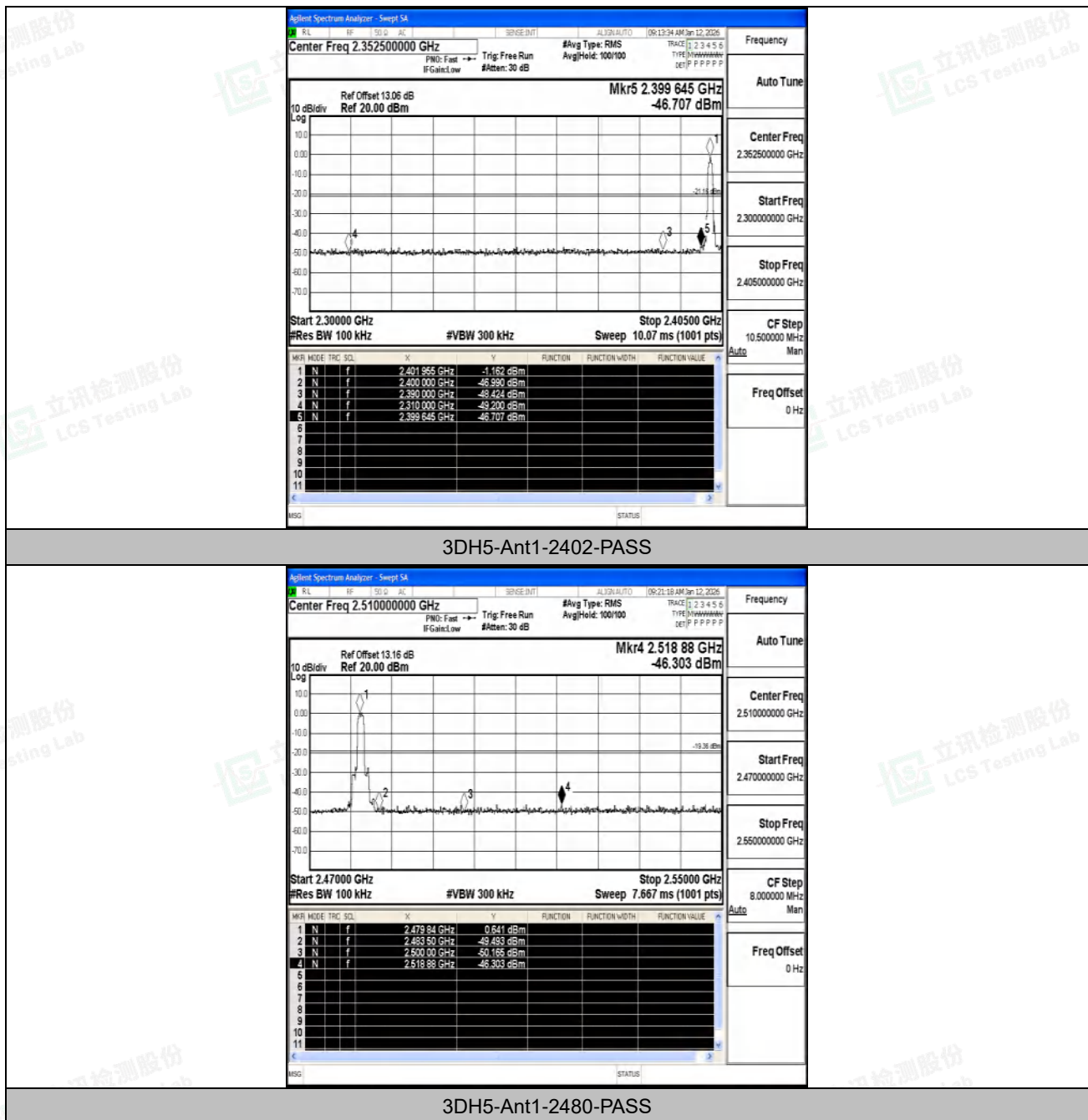


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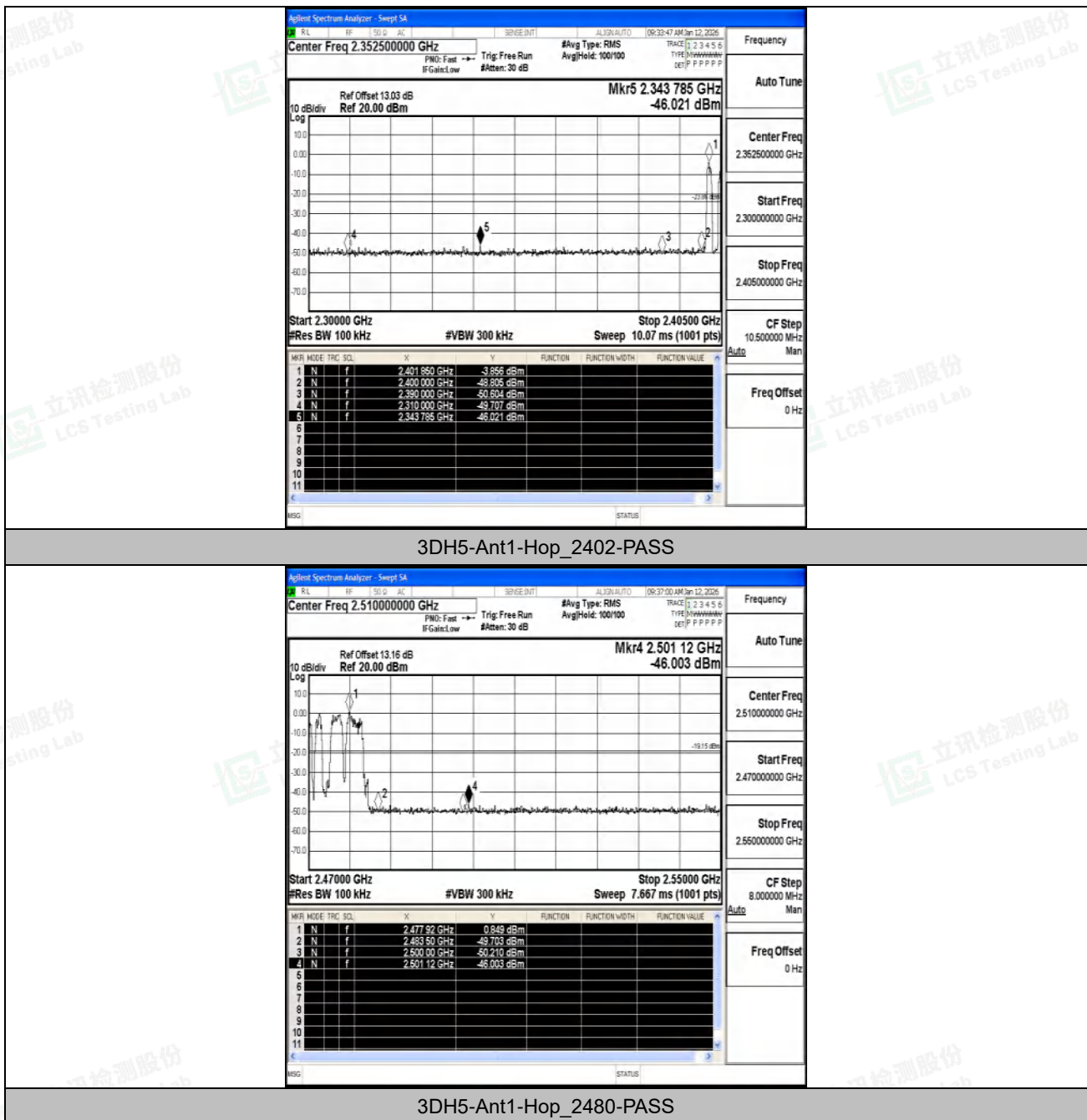


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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.34	-1.34	---	PASS
DH5	Ant1	2402	30~1000	-1.34	-56.5	≤-21.34	PASS
DH5	Ant1	2402	1000~26500	-1.34	-44.36	≤-21.34	PASS
DH5	Ant1	2441	0~Reference	1.69	1.69	---	PASS
DH5	Ant1	2441	30~1000	1.69	-55.48	≤-18.31	PASS
DH5	Ant1	2441	1000~26500	1.69	-44.41	≤-18.31	PASS
DH5	Ant1	2480	0~Reference	2.62	2.62	---	PASS
DH5	Ant1	2480	30~1000	2.62	-56.75	≤-17.38	PASS
DH5	Ant1	2480	1000~26500	2.62	-43.8	≤-17.38	PASS
2DH5	Ant1	2402	0~Reference	-1.87	-1.87	---	PASS
2DH5	Ant1	2402	30~1000	-1.87	-57.22	≤-21.87	PASS
2DH5	Ant1	2402	1000~26500	-1.87	-44.62	≤-21.87	PASS
2DH5	Ant1	2441	0~Reference	-0.05	-0.05	---	PASS
2DH5	Ant1	2441	30~1000	-0.05	-56.44	≤-20.05	PASS
2DH5	Ant1	2441	1000~26500	-0.05	-44.48	≤-20.05	PASS
2DH5	Ant1	2480	0~Reference	1.43	1.43	---	PASS
2DH5	Ant1	2480	30~1000	1.43	-56.34	≤-18.57	PASS
2DH5	Ant1	2480	1000~26500	1.43	-44.07	≤-18.57	PASS
3DH5	Ant1	2402	0~Reference	-3.87	-3.87	---	PASS
3DH5	Ant1	2402	30~1000	-3.87	-56.96	≤-23.87	PASS
3DH5	Ant1	2402	1000~26500	-3.87	-44.74	≤-23.87	PASS
3DH5	Ant1	2441	0~Reference	1.33	1.33	---	PASS
3DH5	Ant1	2441	30~1000	1.33	-56.68	≤-18.67	PASS
3DH5	Ant1	2441	1000~26500	1.33	-44.03	≤-18.67	PASS
3DH5	Ant1	2480	0~Reference	0.19	0.19	---	PASS
3DH5	Ant1	2480	30~1000	0.19	-55.97	≤-19.81	PASS
3DH5	Ant1	2480	1000~26500	0.19	-43.42	≤-19.81	PASS



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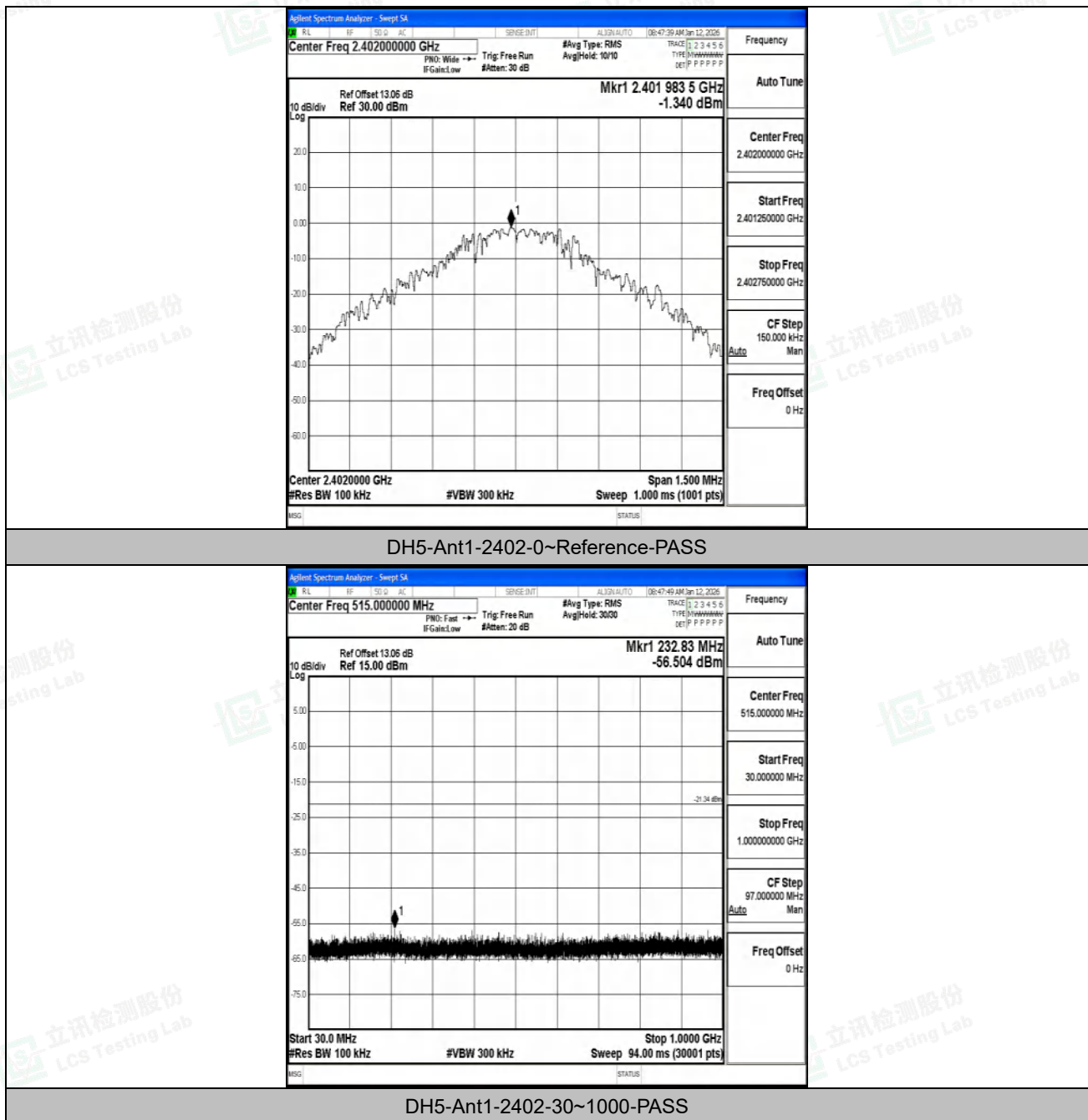
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Test Graphs

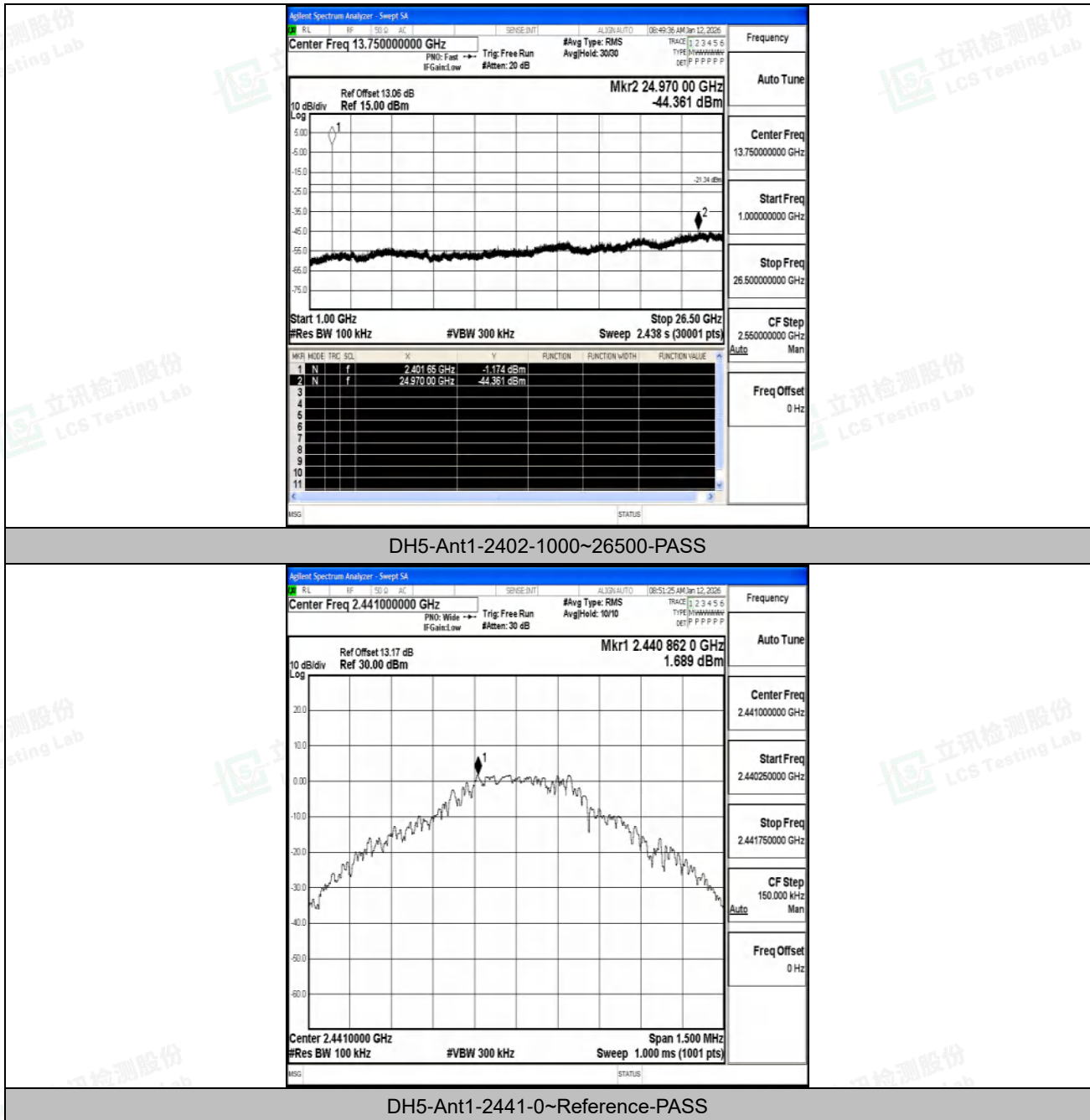


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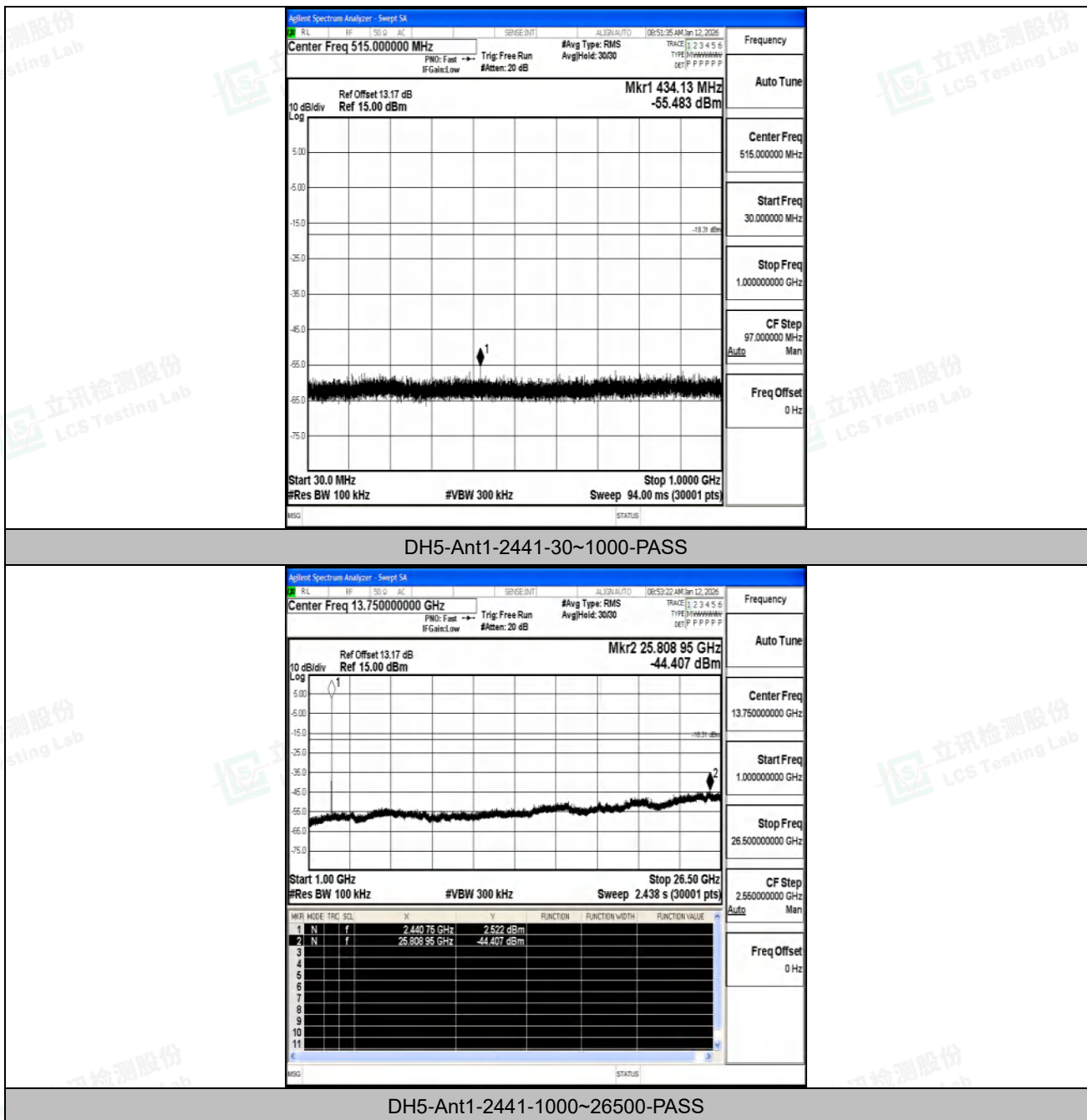


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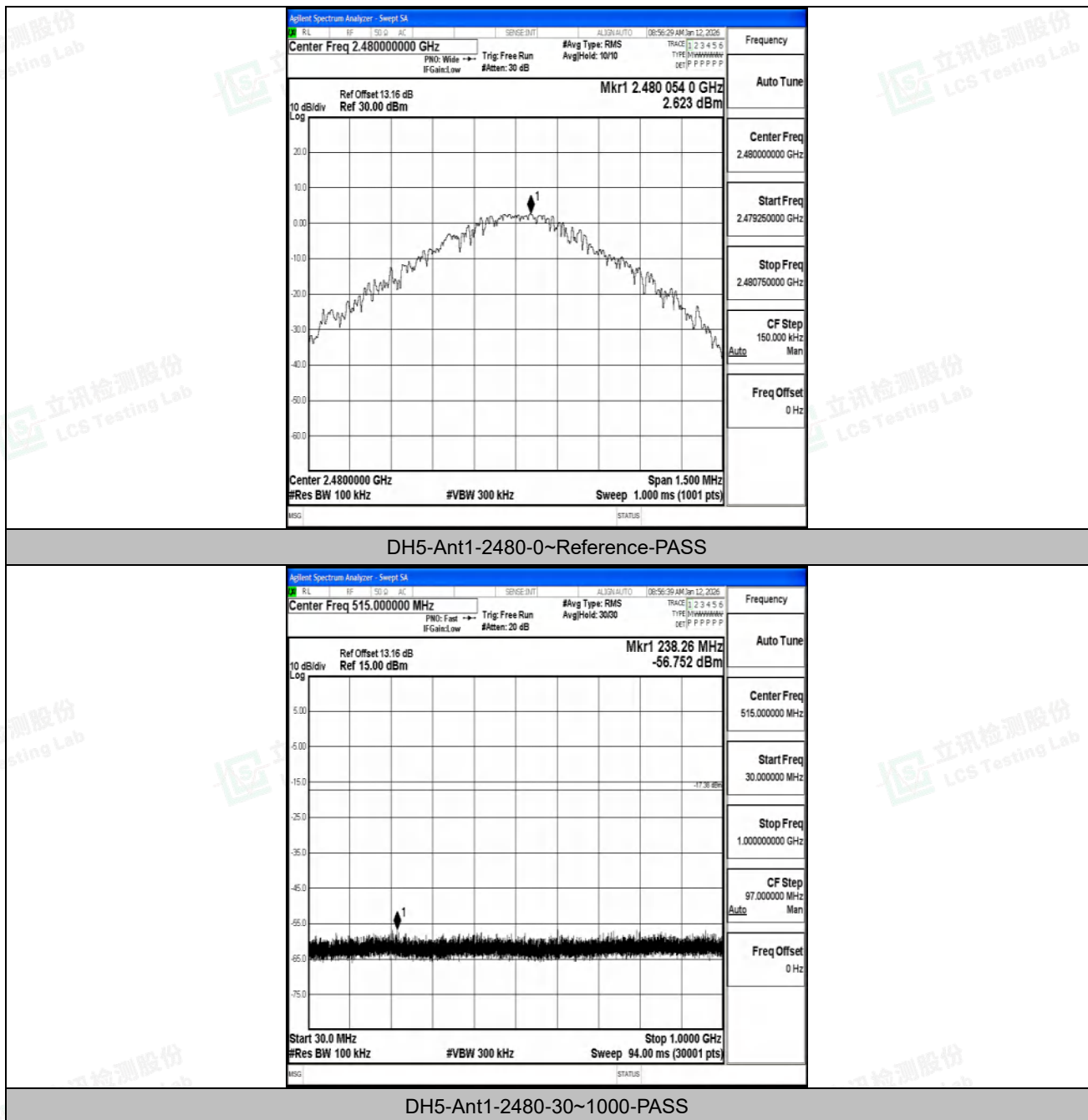


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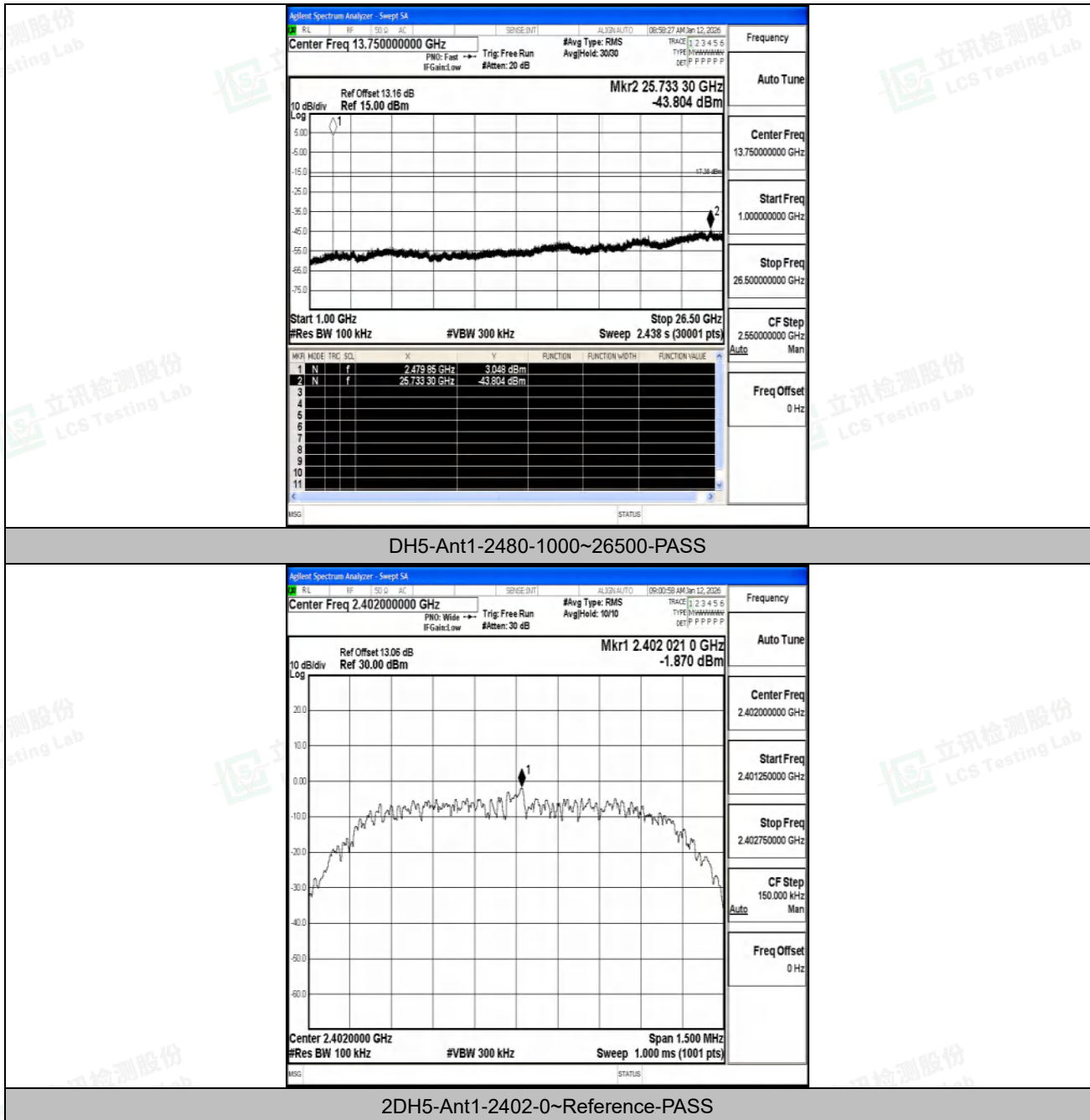


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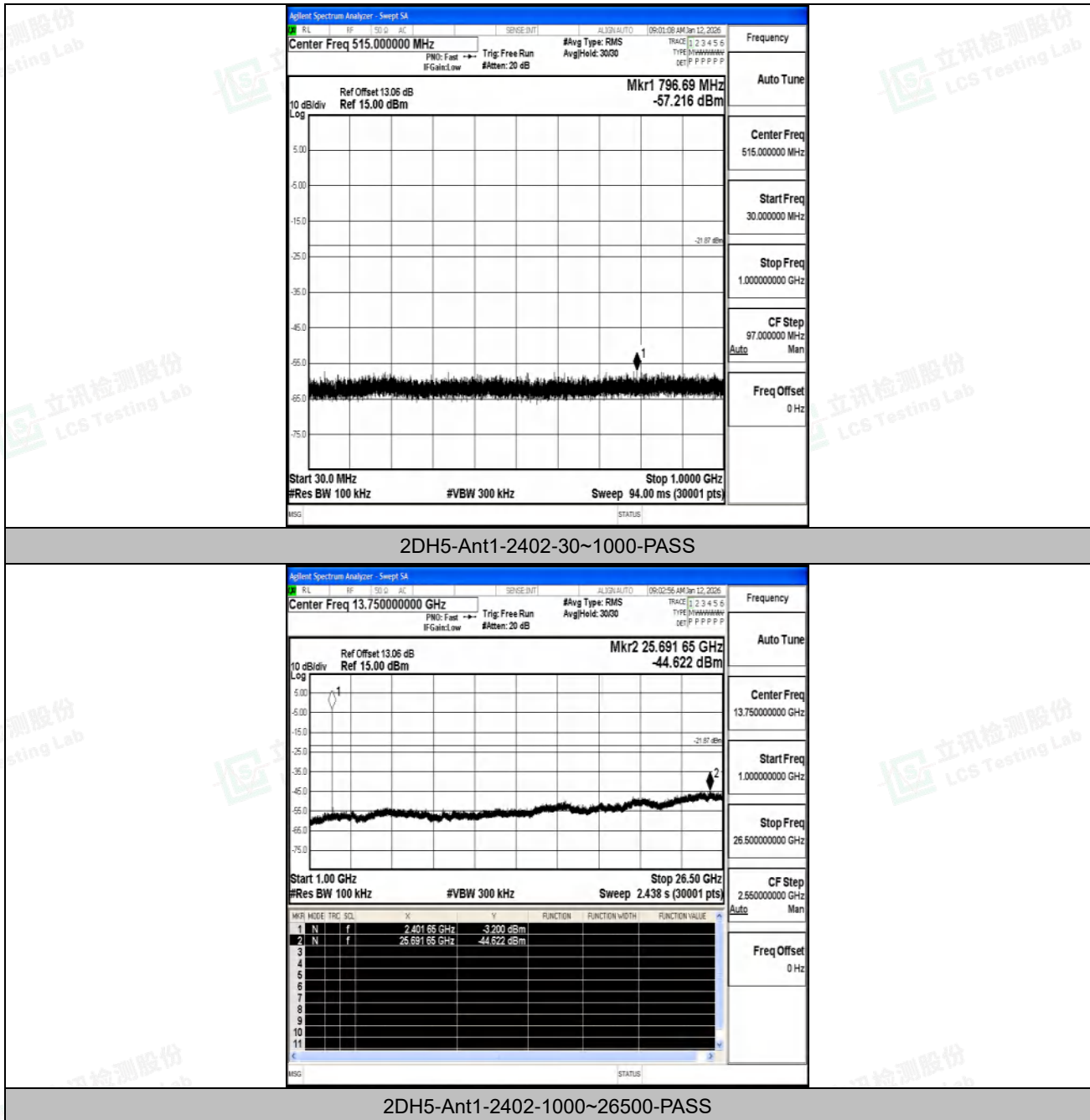


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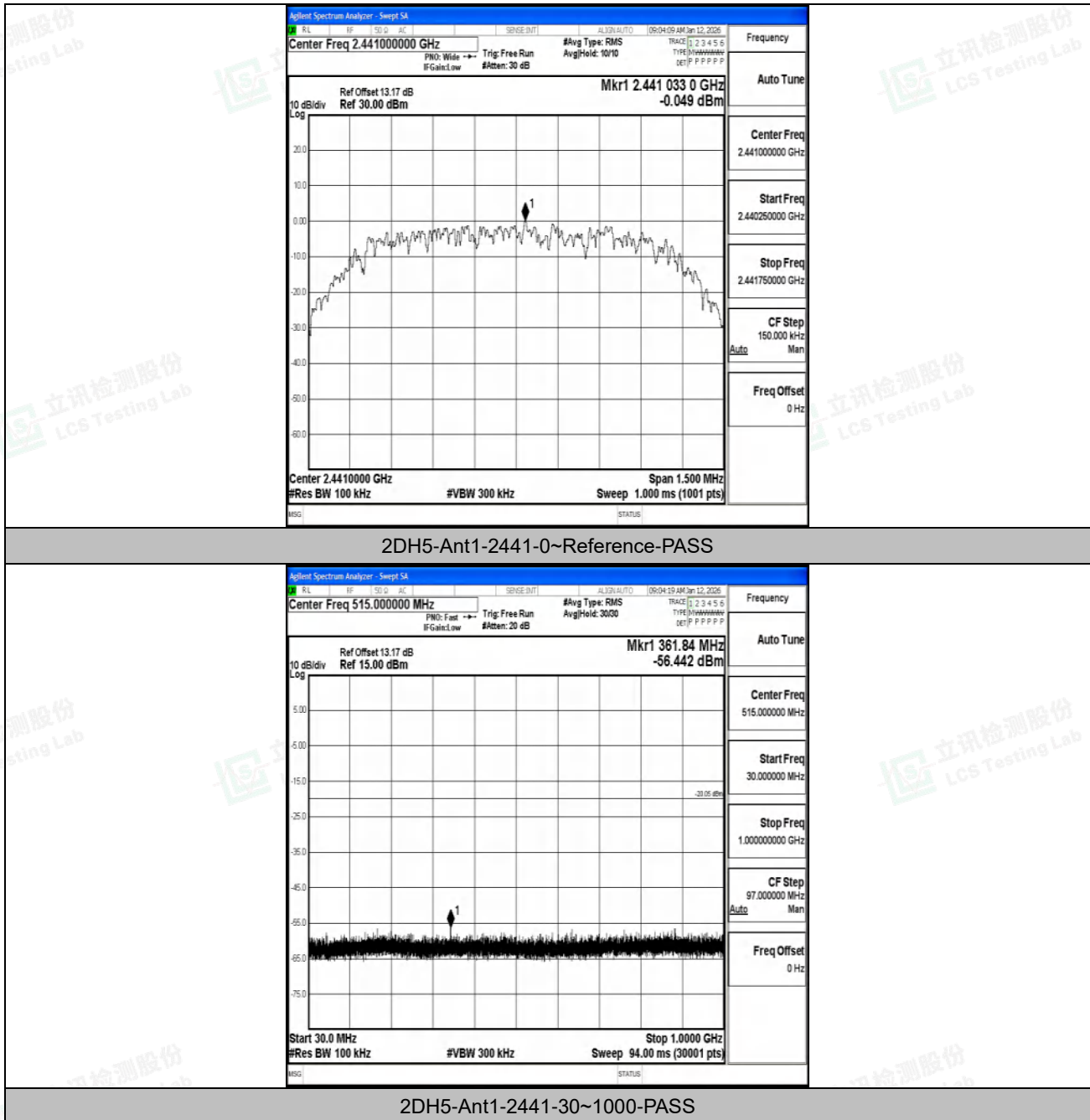


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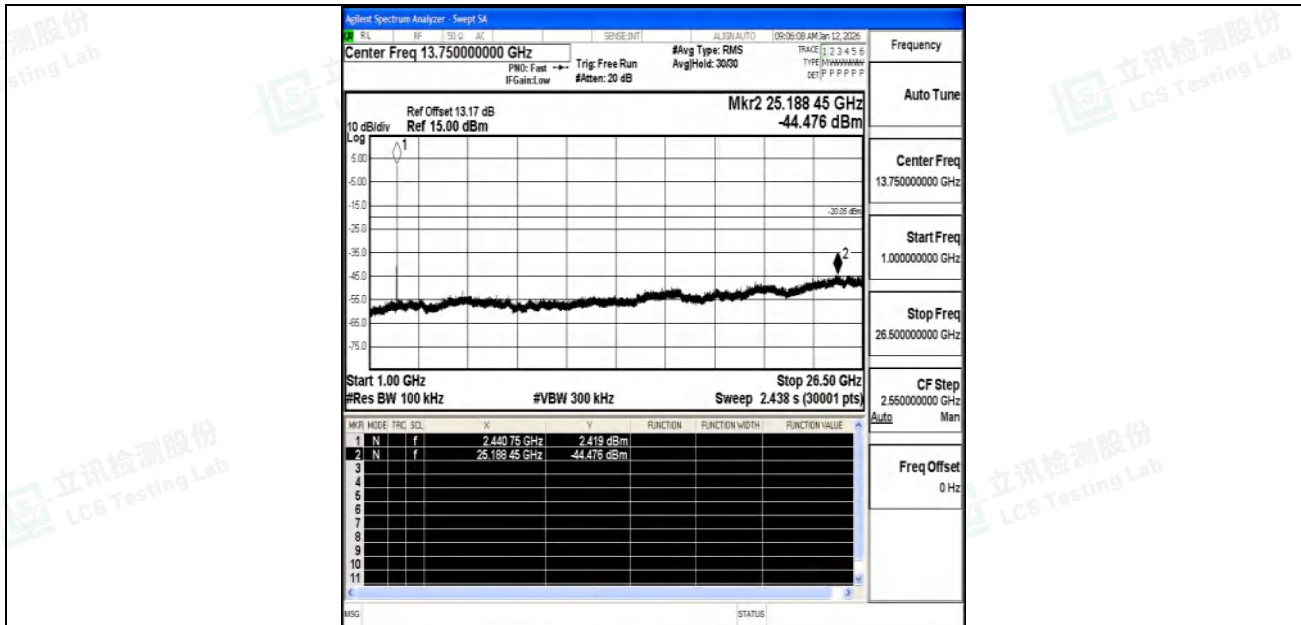


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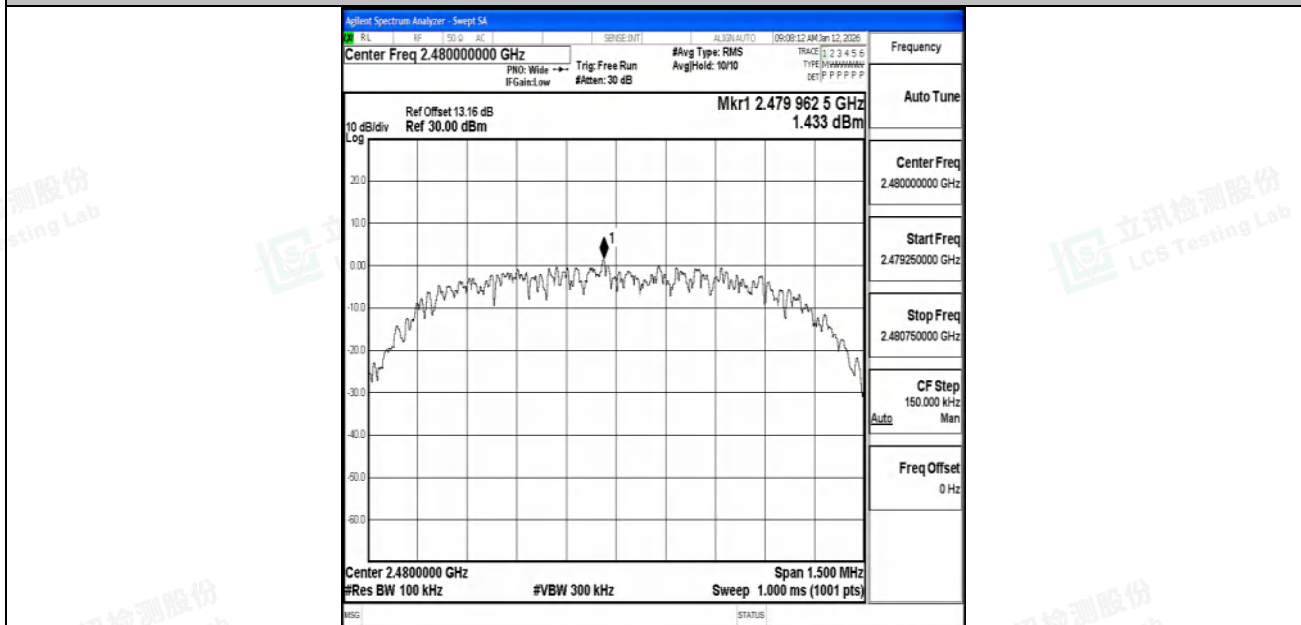
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2DH5-Ant1-2441-1000~26500-PASS



2DH5-Ant1-2480-0~Reference-PASS

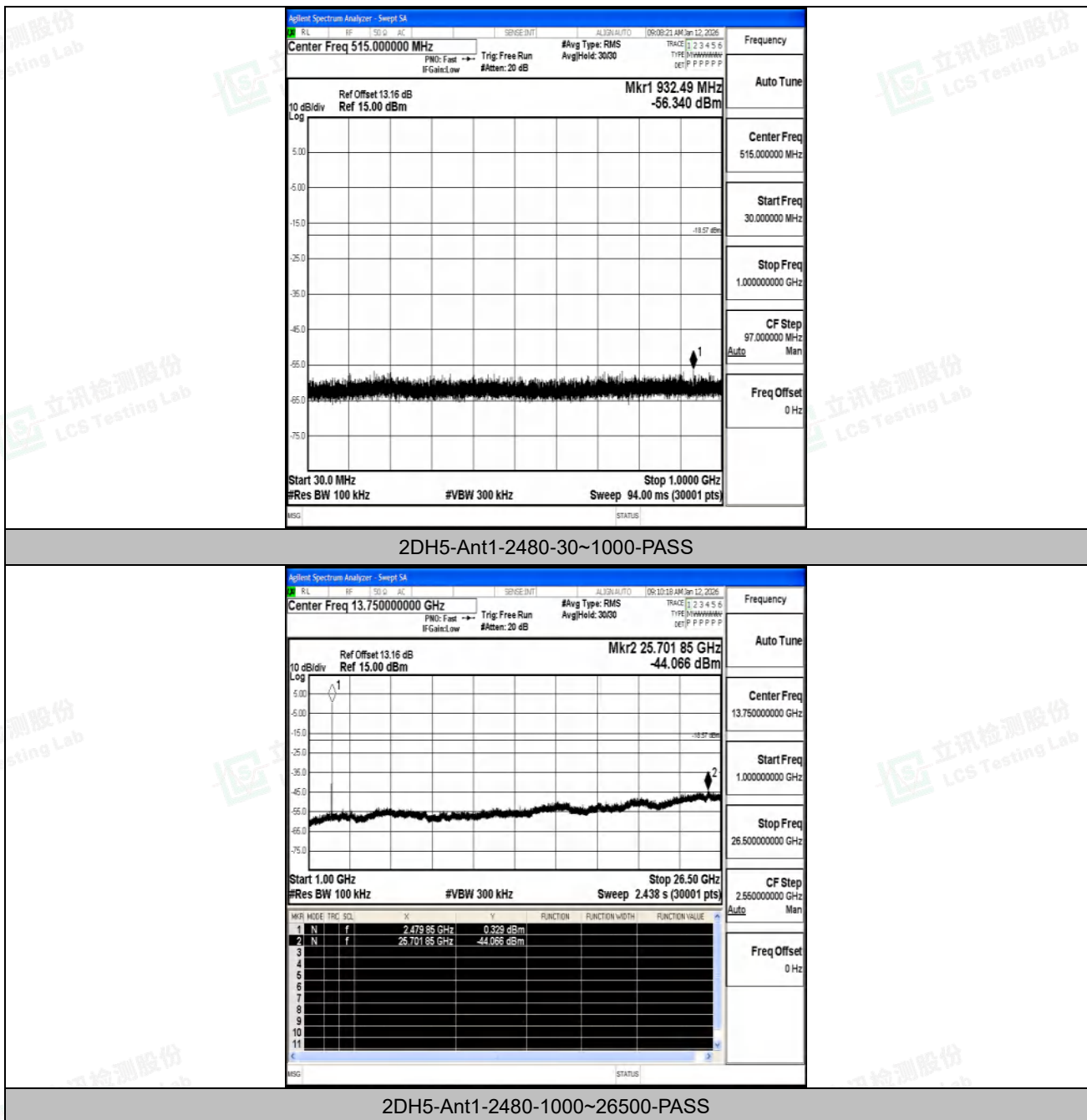


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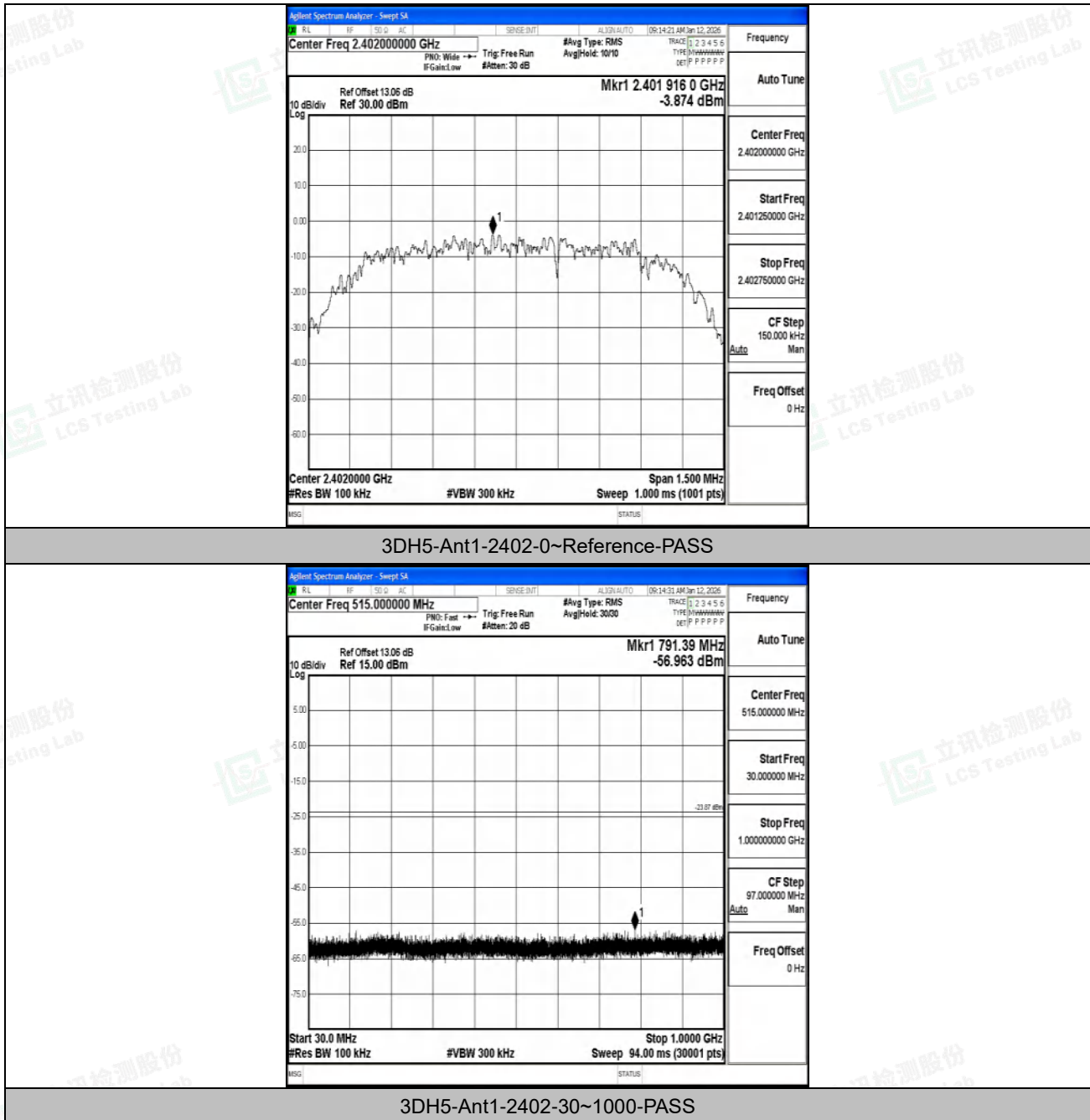


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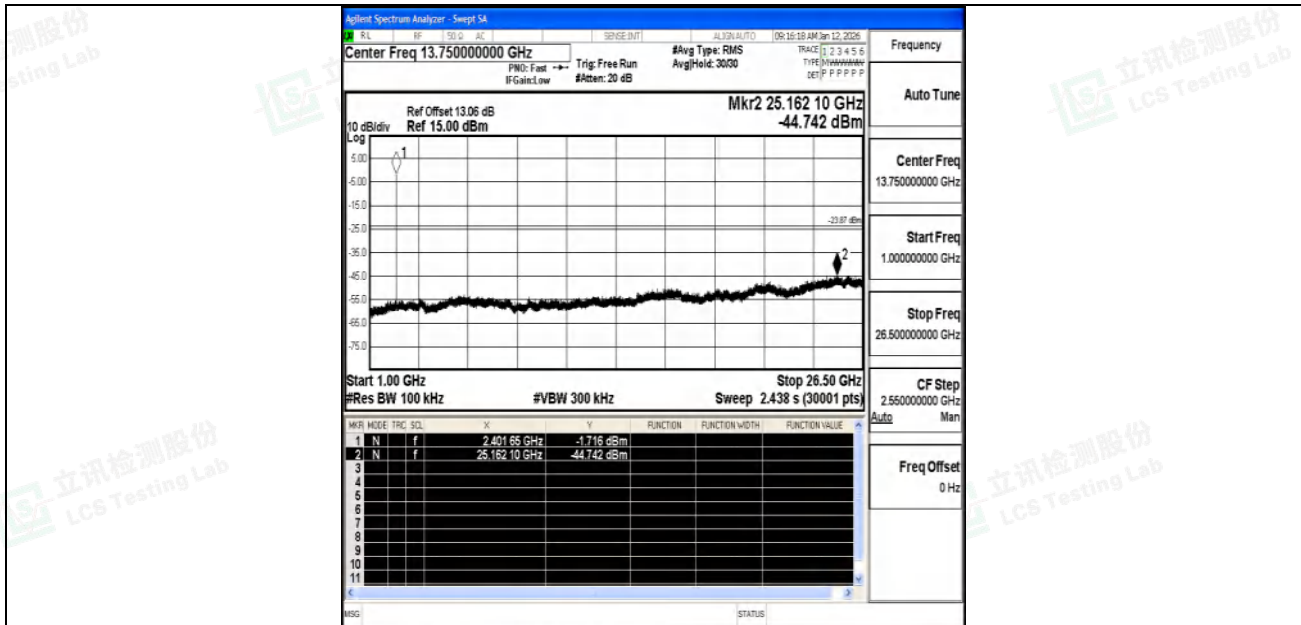


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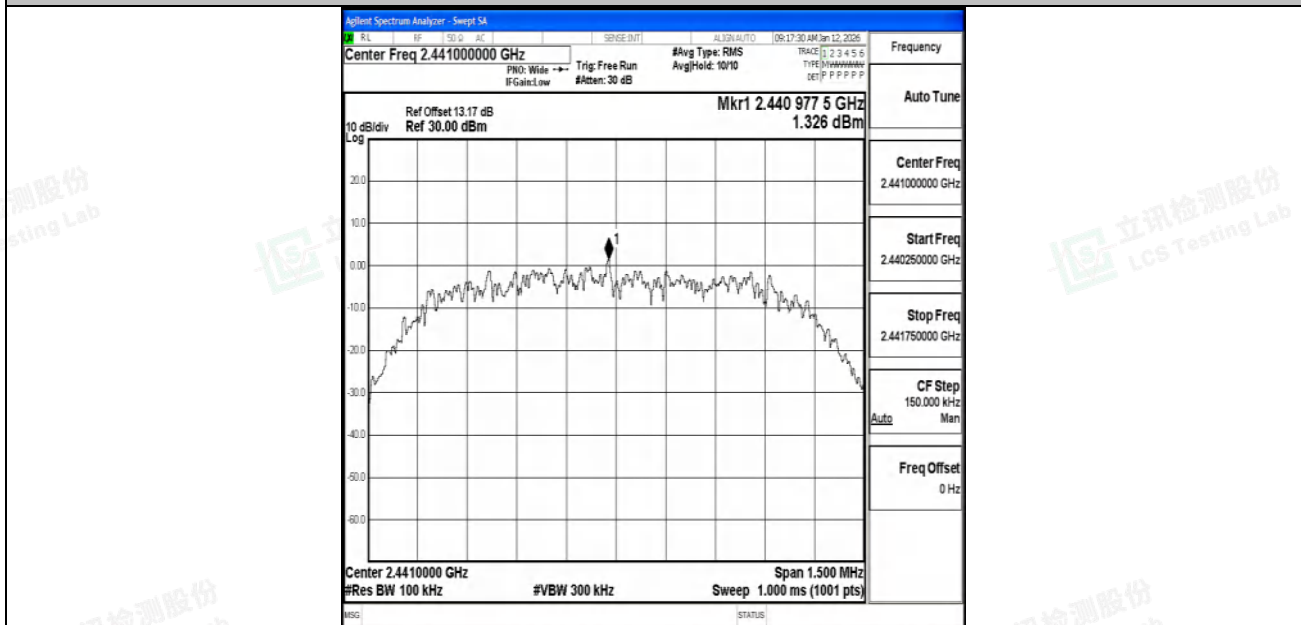
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3DH5-Ant1-2402-1000~26500-PASS



3DH5-Ant1-2441-0~Reference-PASS

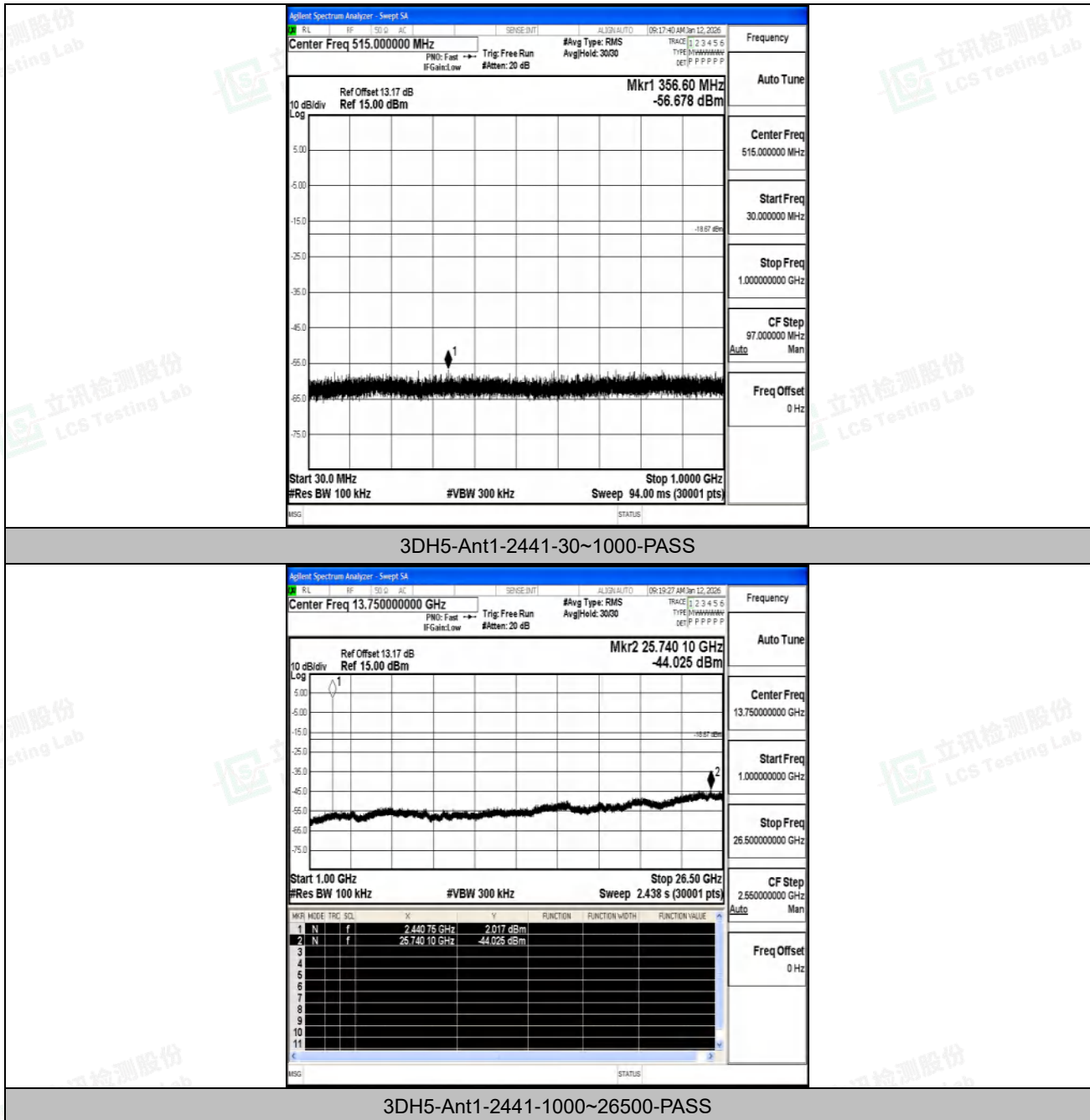


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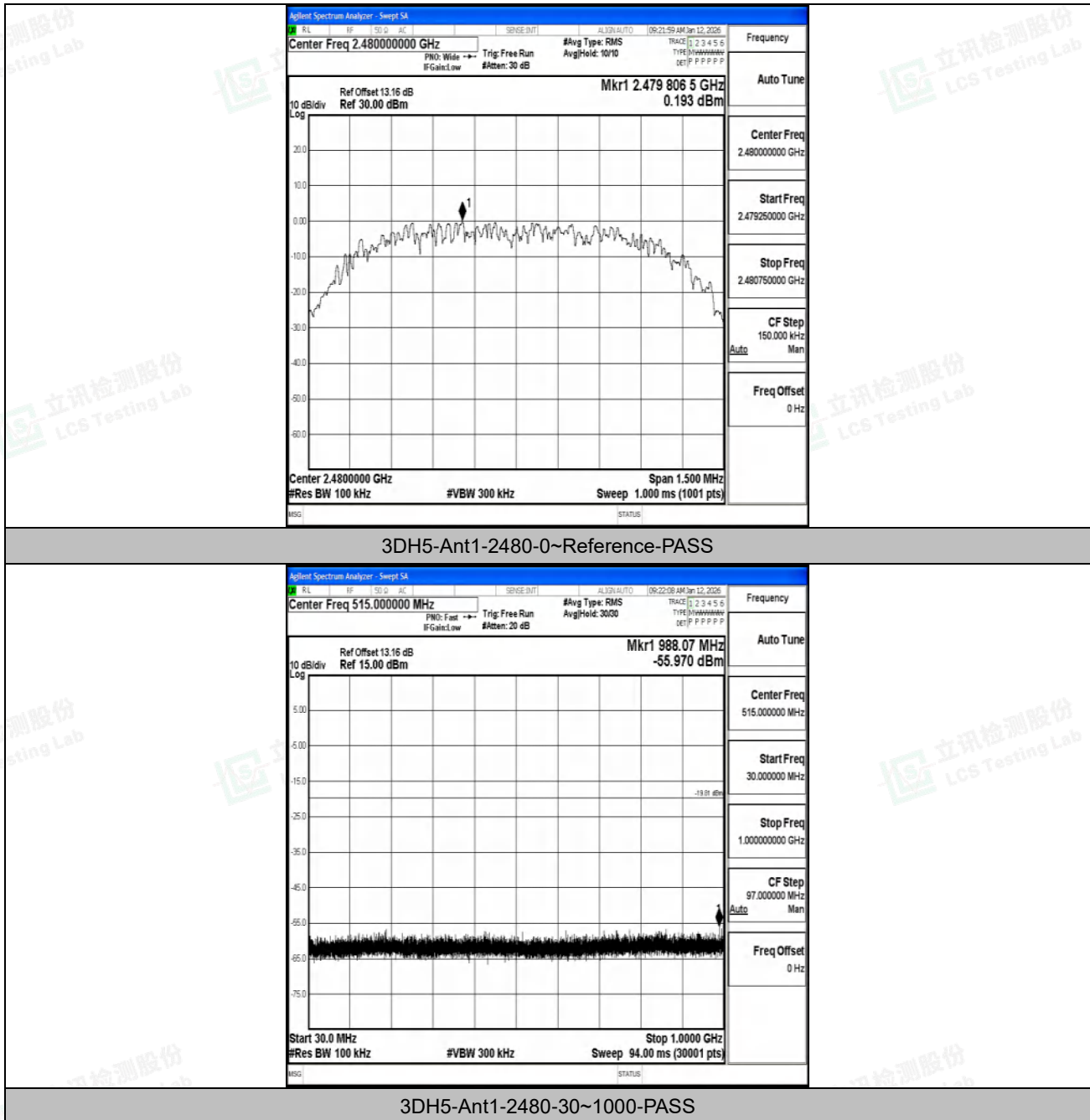


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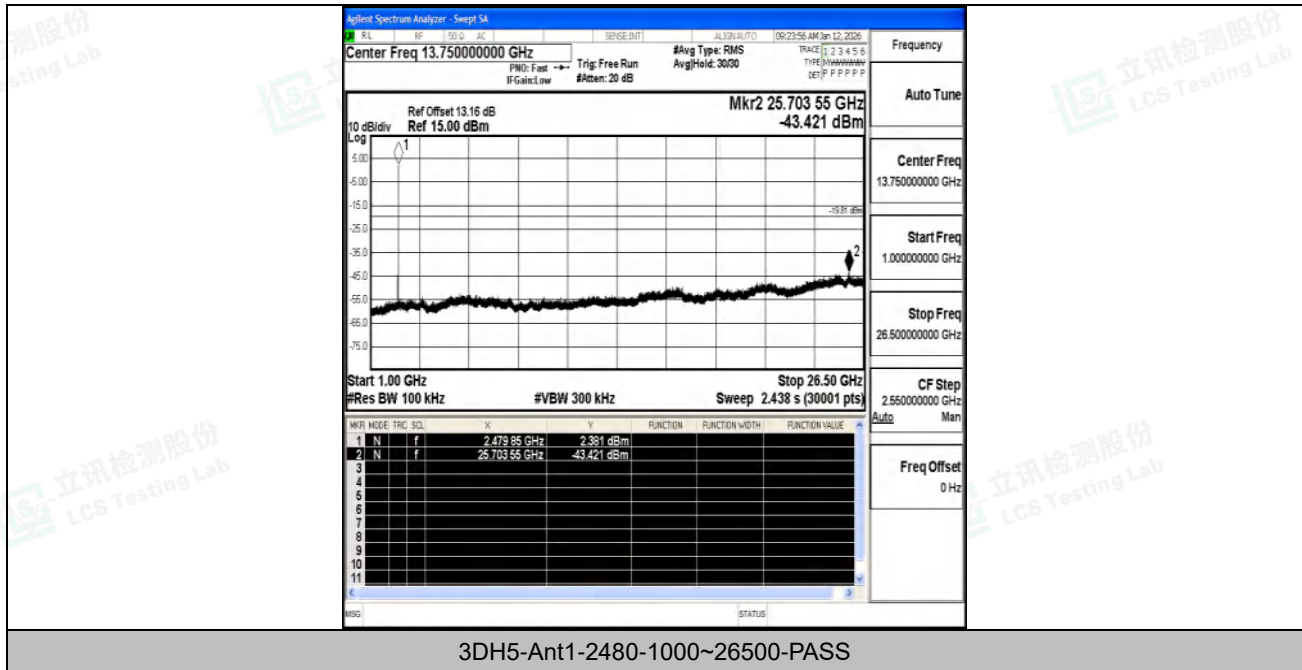


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A.8 Duty Cycle

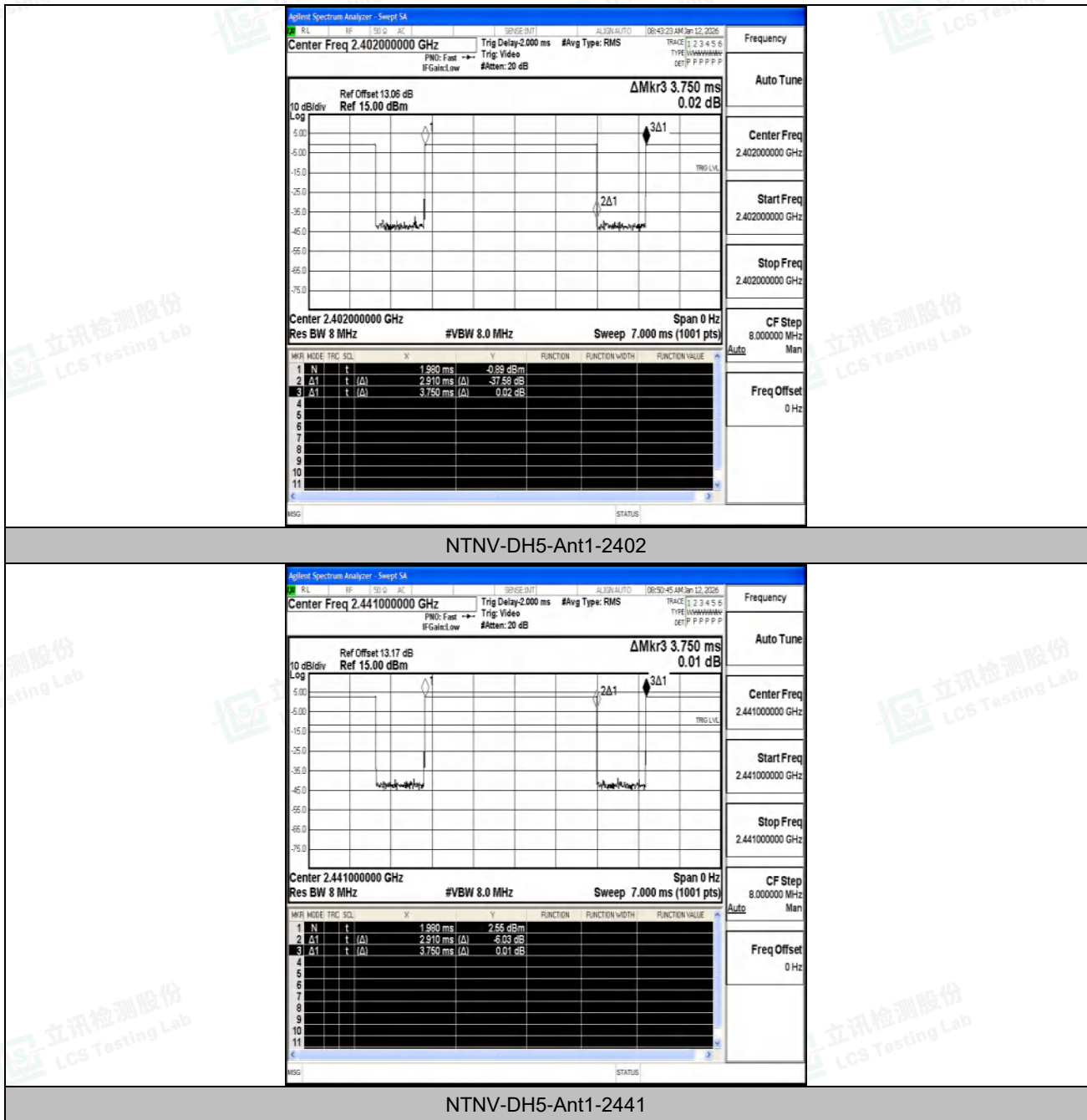
Test Result

TestMode	Antenna	Frequency[M Hz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.91	3.75	77.60	1.10
DH5	Ant1	2441	2.91	3.75	77.60	1.10
DH5	Ant1	2480	2.91	3.75	77.60	1.10
2DH5	Ant1	2402	2.90	3.75	77.33	1.12
2DH5	Ant1	2441	2.90	3.75	77.33	1.12
2DH5	Ant1	2480	2.90	3.75	77.33	1.12
3DH5	Ant1	2402	2.91	3.76	77.39	1.11
3DH5	Ant1	2441	2.90	3.76	77.13	1.13
3DH5	Ant1	2480	2.89	3.74	77.27	1.12





Test Graphs

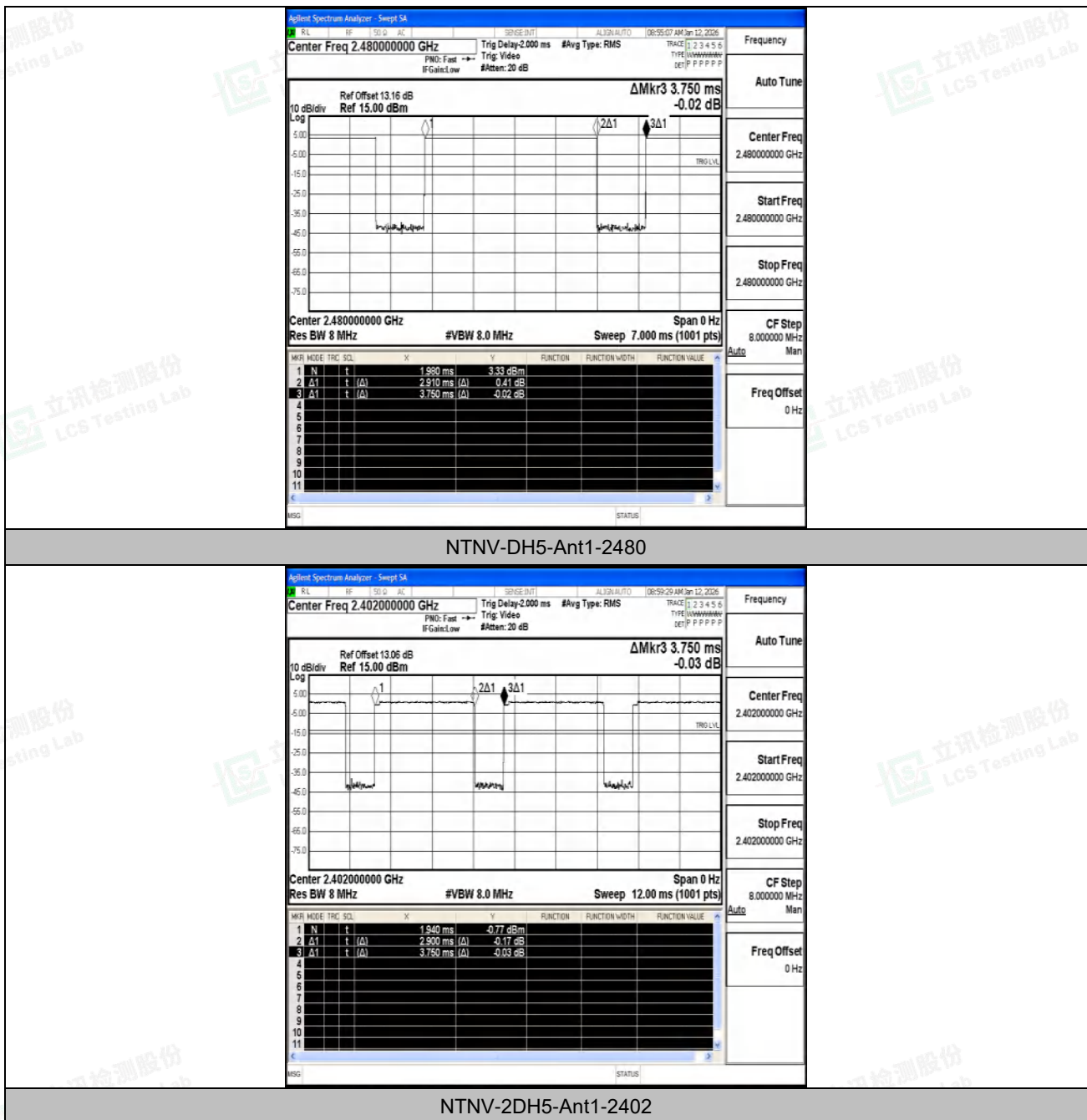


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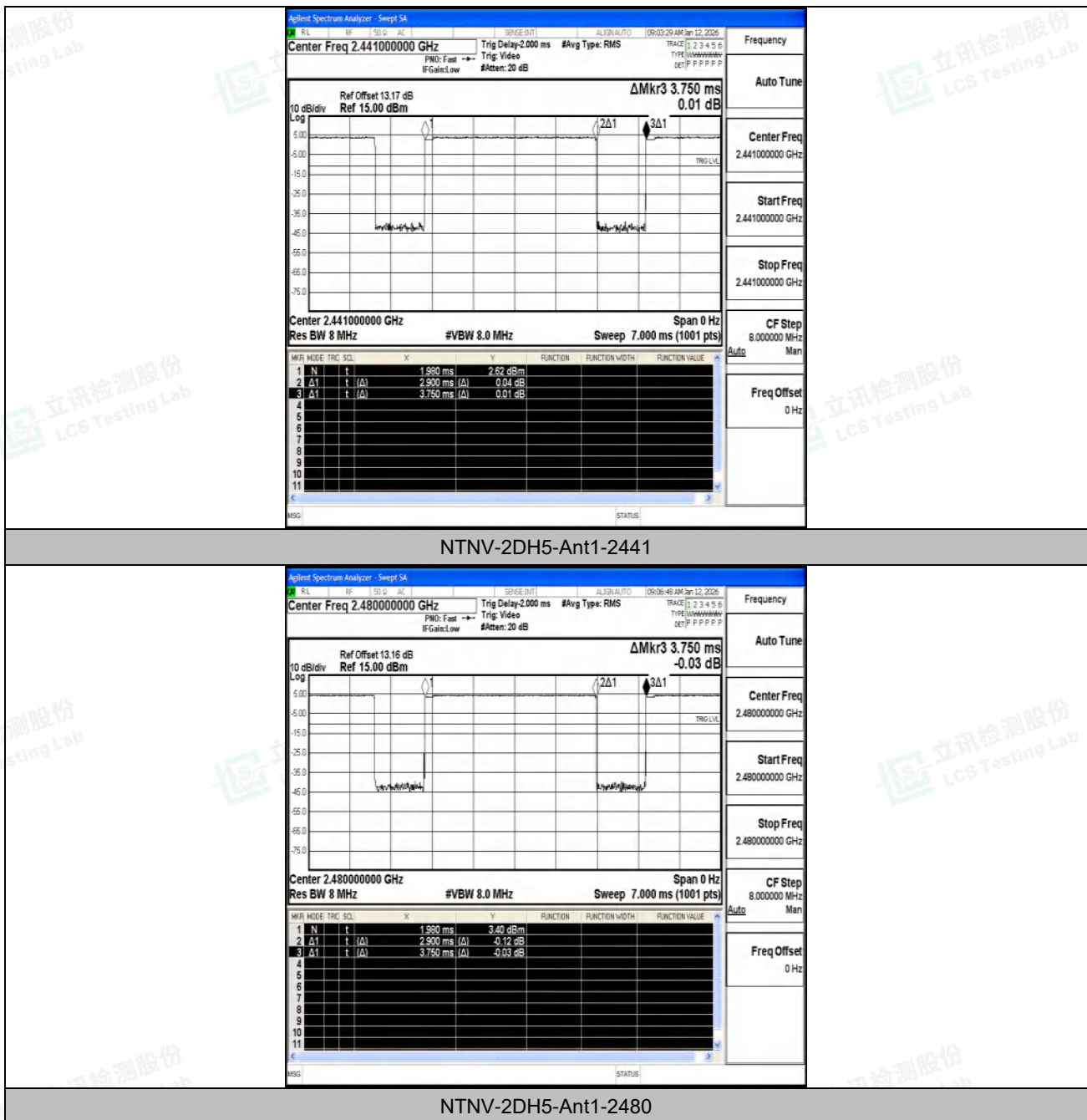


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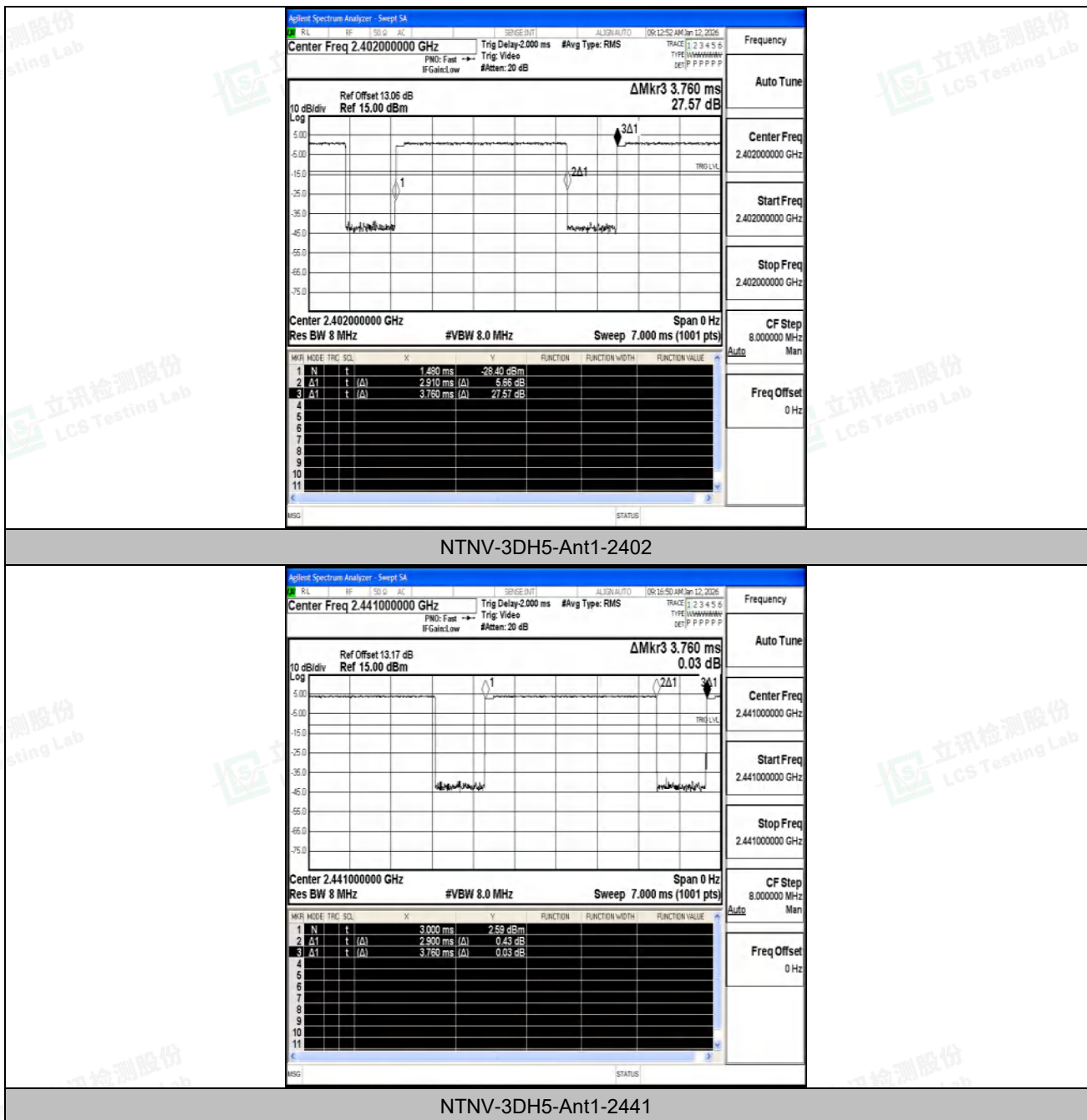


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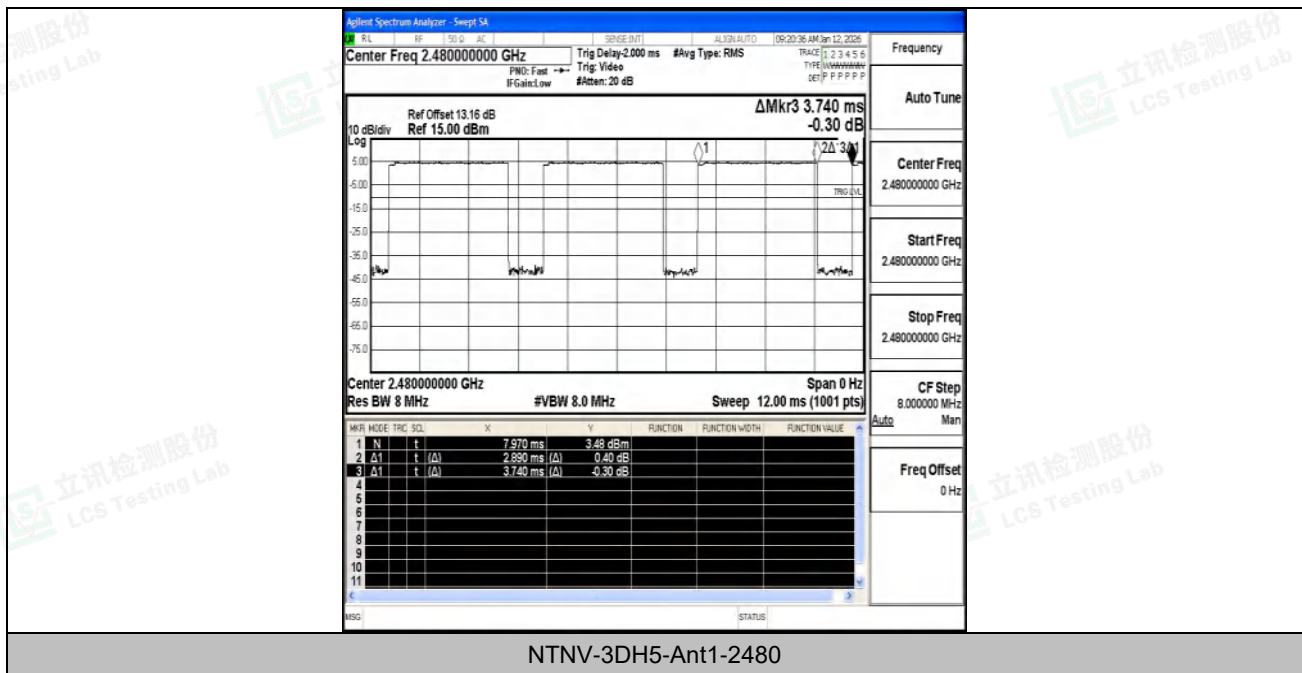


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A.9 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	Peak	2390.000	-35.91	≤-21.20	59.29	≤74	PASS
DH5	Ant1	Low	2402	Peak	2310.000	-39.02	≤-21.20	56.18	≤74	PASS
DH5	Ant1	Low	2402	Peak	2385.470	-35.35	≤-21.20	59.85	≤74	PASS
DH5	Ant1	Low	2402	AV	2390.000	-45.02	≤-41.20	50.18	≤54	PASS
DH5	Ant1	Low	2402	AV	2310.000	-45.49	≤-41.20	49.71	≤54	PASS
DH5	Ant1	Low	2402	AV	2379.590	-44.95	≤-41.20	50.25	≤54	PASS
DH5	Ant1	High	2480	Peak	2483.500	-37.46	≤-21.20	57.74	≤74	PASS
DH5	Ant1	High	2480	Peak	2500.000	-36.15	≤-21.20	59.05	≤74	PASS
DH5	Ant1	High	2480	Peak	2492.480	-35.17	≤-21.20	60.03	≤74	PASS
DH5	Ant1	High	2480	AV	2483.500	-44.97	≤-41.20	50.23	≤54	PASS
DH5	Ant1	High	2480	AV	2500.000	-45.16	≤-41.20	50.04	≤54	PASS
DH5	Ant1	High	2480	AV	2490.720	-44.95	≤-41.20	50.25	≤54	PASS
DH5	Ant1	Low	Hop_2402	Peak	2390.000	-38.16	≤-21.20	57.04	≤74	PASS
DH5	Ant1	Low	Hop_2402	Peak	2310.000	-38.93	≤-21.20	56.27	≤74	PASS
DH5	Ant1	Low	Hop_2402	Peak	2380.010	-34.97	≤-21.20	60.23	≤74	PASS
DH5	Ant1	High	Hop_2480	Peak	2483.500	-37.66	≤-21.20	57.54	≤74	PASS
DH5	Ant1	High	Hop_2480	Peak	2500.000	-37.31	≤-21.20	57.89	≤74	PASS
DH5	Ant1	High	Hop_2480	Peak	2494.800	-35.24	≤-21.20	59.96	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2390.000	-36.57	≤-21.20	58.63	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2310.000	-38.56	≤-21.20	56.64	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2364.050	-35.62	≤-21.20	59.58	≤74	PASS
2DH5	Ant1	Low	2402	AV	2390.000	-44.97	≤-41.20	50.23	≤54	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-45.46	≤-41.20	49.74	≤54	PASS
2DH5	Ant1	Low	2402	AV	2378.750	-44.85	≤-41.20	50.35	≤54	PASS
2DH5	Ant1	High	2480	Peak	2483.500	-38.17	≤-21.20	57.03	≤74	PASS
2DH5	Ant1	High	2480	Peak	2500.000	-36.37	≤-21.20	58.83	≤74	PASS
2DH5	Ant1	High	2480	Peak	2494.400	-36.02	≤-21.20	59.18	≤74	PASS
2DH5	Ant1	High	2480	AV	2483.500	-44.3	≤-41.20	50.90	≤54	PASS
2DH5	Ant1	High	2480	AV	2500.000	-45.09	≤-41.20	50.11	≤54	PASS
2DH5	Ant1	High	2480	AV	2483.520	-44.3	≤-41.20	50.90	≤54	PASS
2DH5	Ant1	Low	Hop_2402	Peak	2390.000	-37.6	≤-21.20	57.60	≤74	PASS
2DH5	Ant1	Low	Hop_2402	Peak	2310.000	-38.79	≤-21.20	56.41	≤74	PASS
2DH5	Ant1	Low	Hop_2402	Peak	2380.325	-34.68	≤-21.20	60.52	≤74	PASS
2DH5	Ant1	High	Hop_2480	Peak	2483.500	-37.06	≤-21.20	58.14	≤74	PASS
2DH5	Ant1	High	Hop_2480	Peak	2500.000	-37.84	≤-21.20	57.36	≤74	PASS
2DH5	Ant1	High	Hop_2480	Peak	2494.160	-35.52	≤-21.20	59.68	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2390.000	-37.11	≤-21.20	58.09	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2310.000	-38.52	≤-21.20	56.68	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2353.025	-35.39	≤-21.20	59.81	≤74	PASS
3DH5	Ant1	Low	2402	AV	2390.000	-44.99	≤-41.20	50.21	≤54	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-45.41	≤-41.20	49.79	≤54	PASS
3DH5	Ant1	Low	2402	AV	2384.525	-44.76	≤-41.20	50.44	≤54	PASS
3DH5	Ant1	High	2480	Peak	2483.500	-37.33	≤-21.20	57.87	≤74	PASS
3DH5	Ant1	High	2480	Peak	2500.000	-36.9	≤-21.20	58.30	≤74	PASS
3DH5	Ant1	High	2480	Peak	2488.640	-35.52	≤-21.20	59.68	≤74	PASS
3DH5	Ant1	High	2480	AV	2483.500	-44.24	≤-41.20	50.96	≤54	PASS
3DH5	Ant1	High	2480	AV	2500.000	-45.1	≤-41.20	50.10	≤54	PASS
3DH5	Ant1	High	2480	AV	2483.520	-44.24	≤-41.20	50.96	≤54	PASS
3DH5	Ant1	Low	Hop_2402	Peak	2390.000	-38.74	≤-21.20	56.46	≤74	PASS
3DH5	Ant1	Low	Hop_2402	Peak	2310.000	-39.79	≤-21.20	55.41	≤74	PASS
3DH5	Ant1	Low	Hop_2402	Peak	2350.085	-34.72	≤-21.20	60.48	≤74	PASS
3DH5	Ant1	High	Hop_2480	Peak	2483.500	-38.9	≤-21.20	56.30	≤74	PASS
3DH5	Ant1	High	Hop_2480	Peak	2500.000	-37.58	≤-21.20	57.62	≤74	PASS
3DH5	Ant1	High	Hop_2480	Peak	2497.920	-35.71	≤-21.20	59.49	≤74	PASS

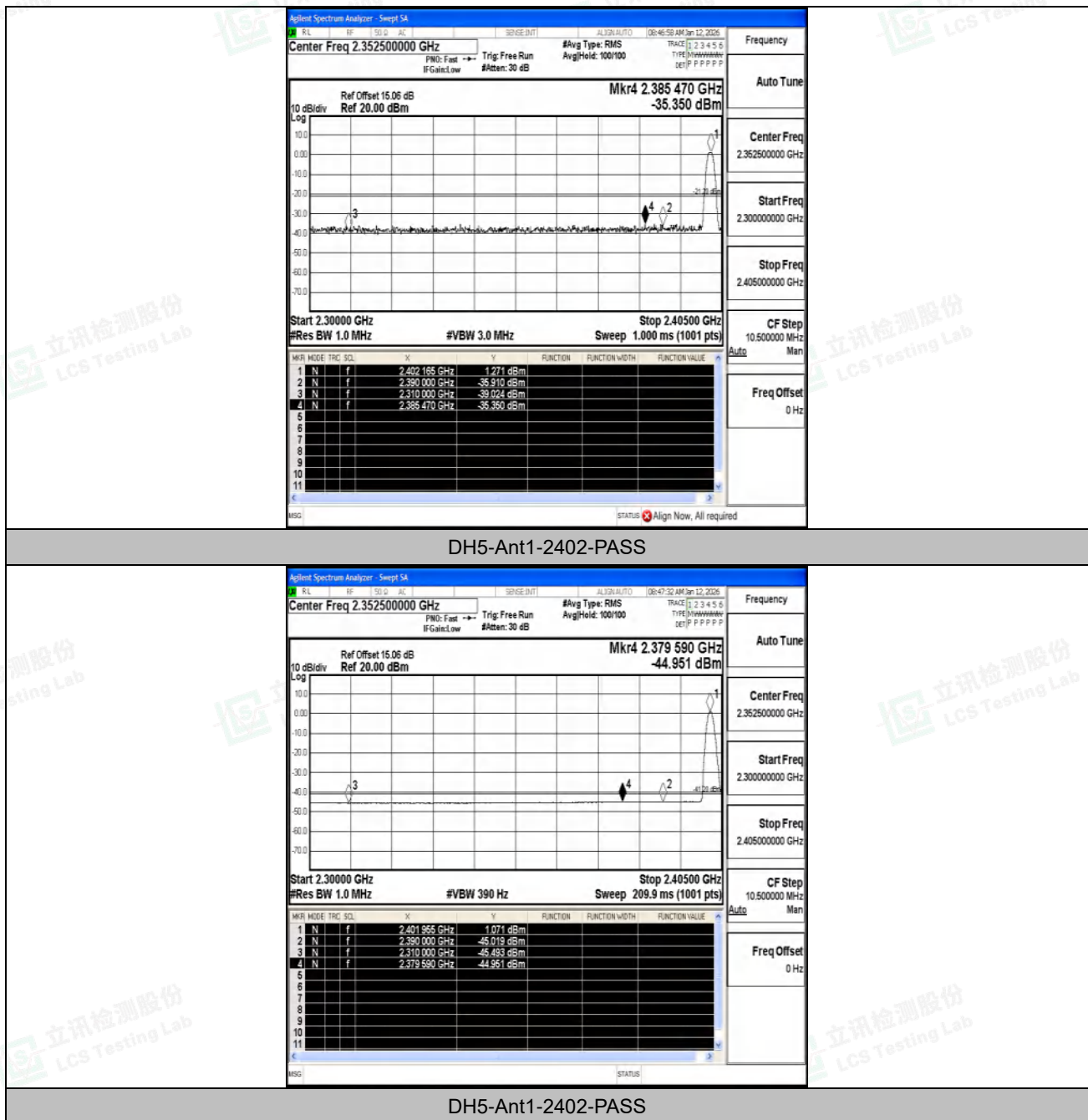
Note:

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.





Test Graphs

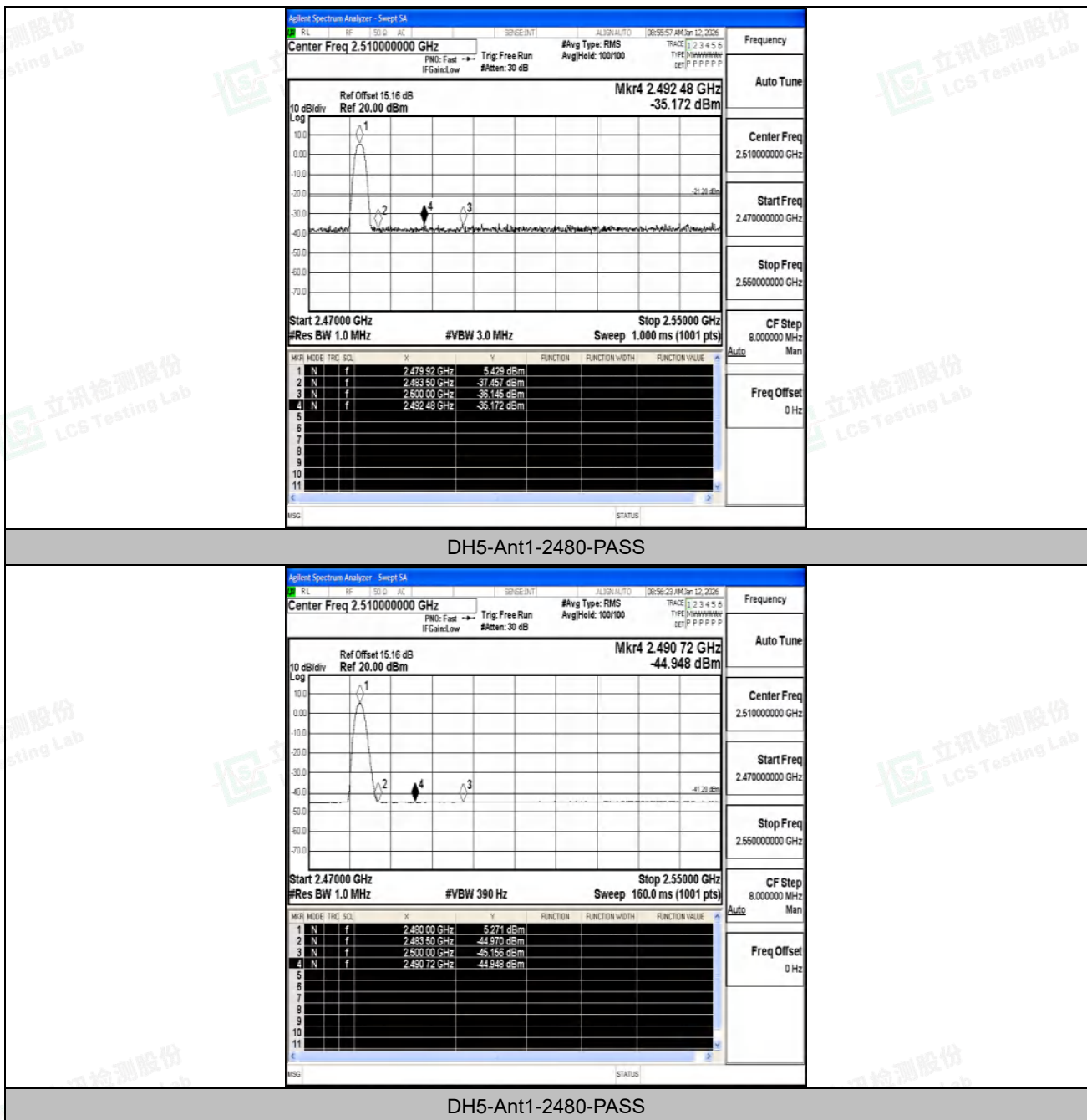


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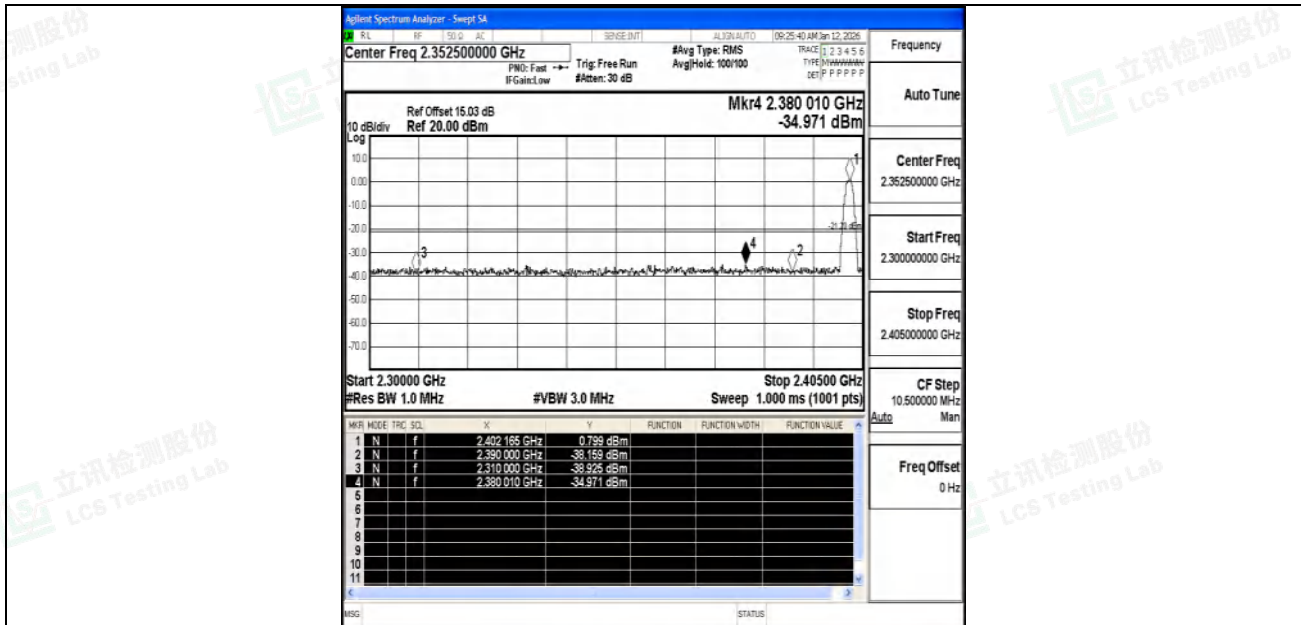


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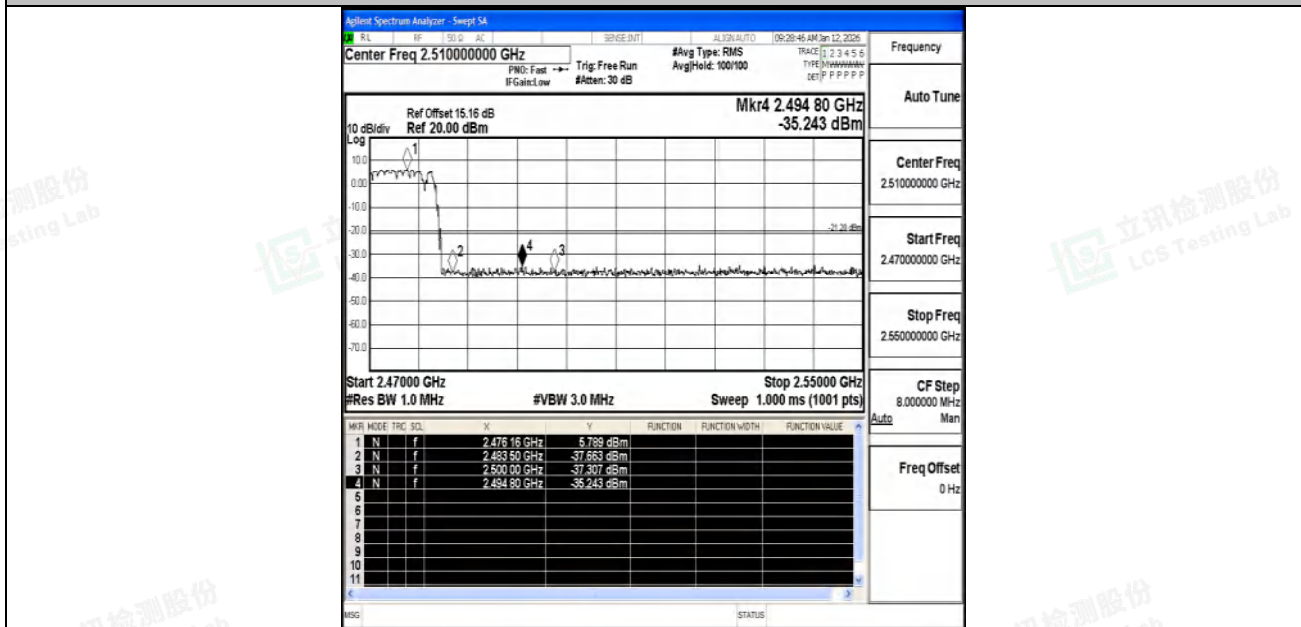
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DH5-Ant1-Hop_2402-PASS



DH5-Ant1-Hop_2480-PASS

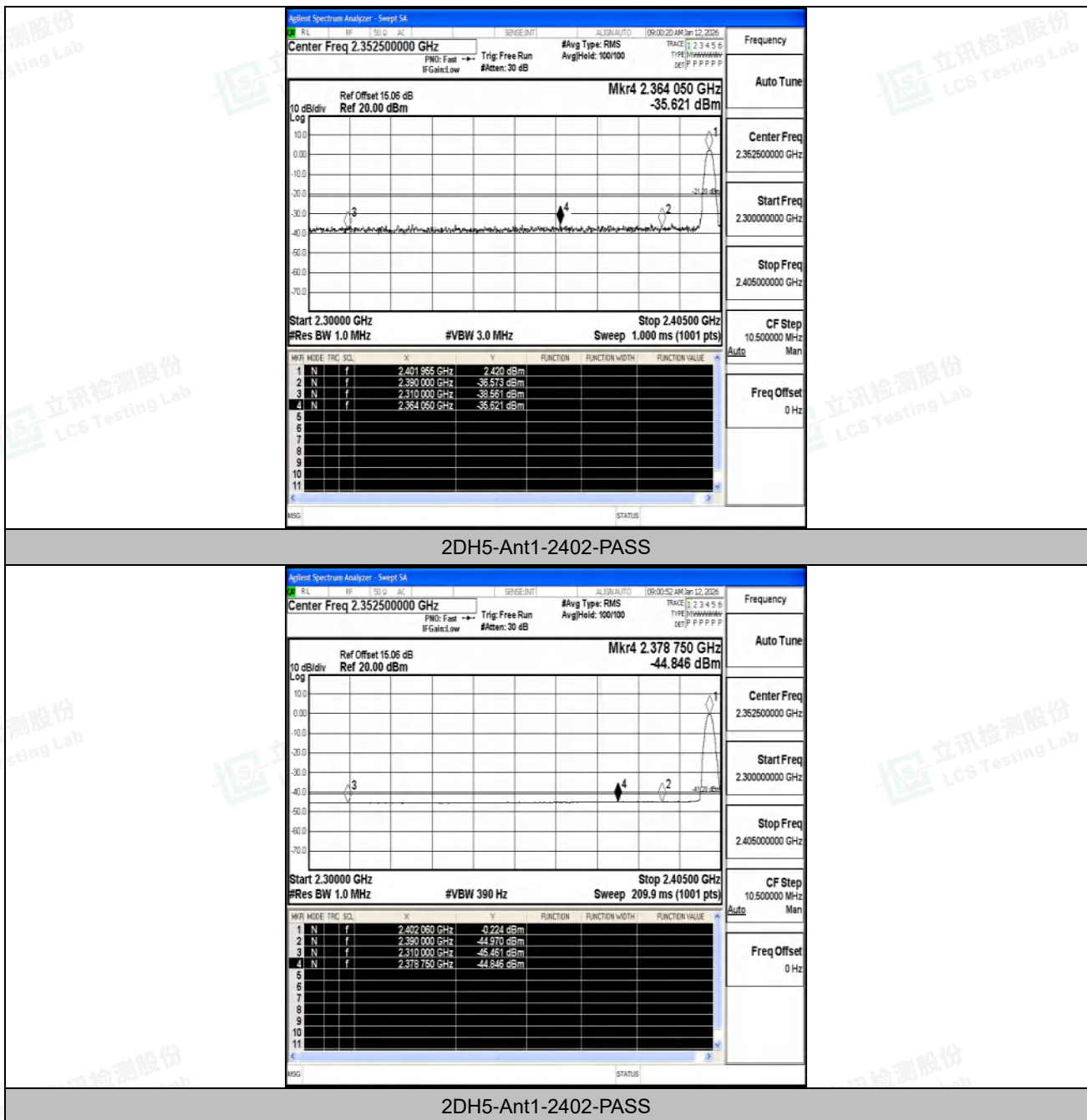


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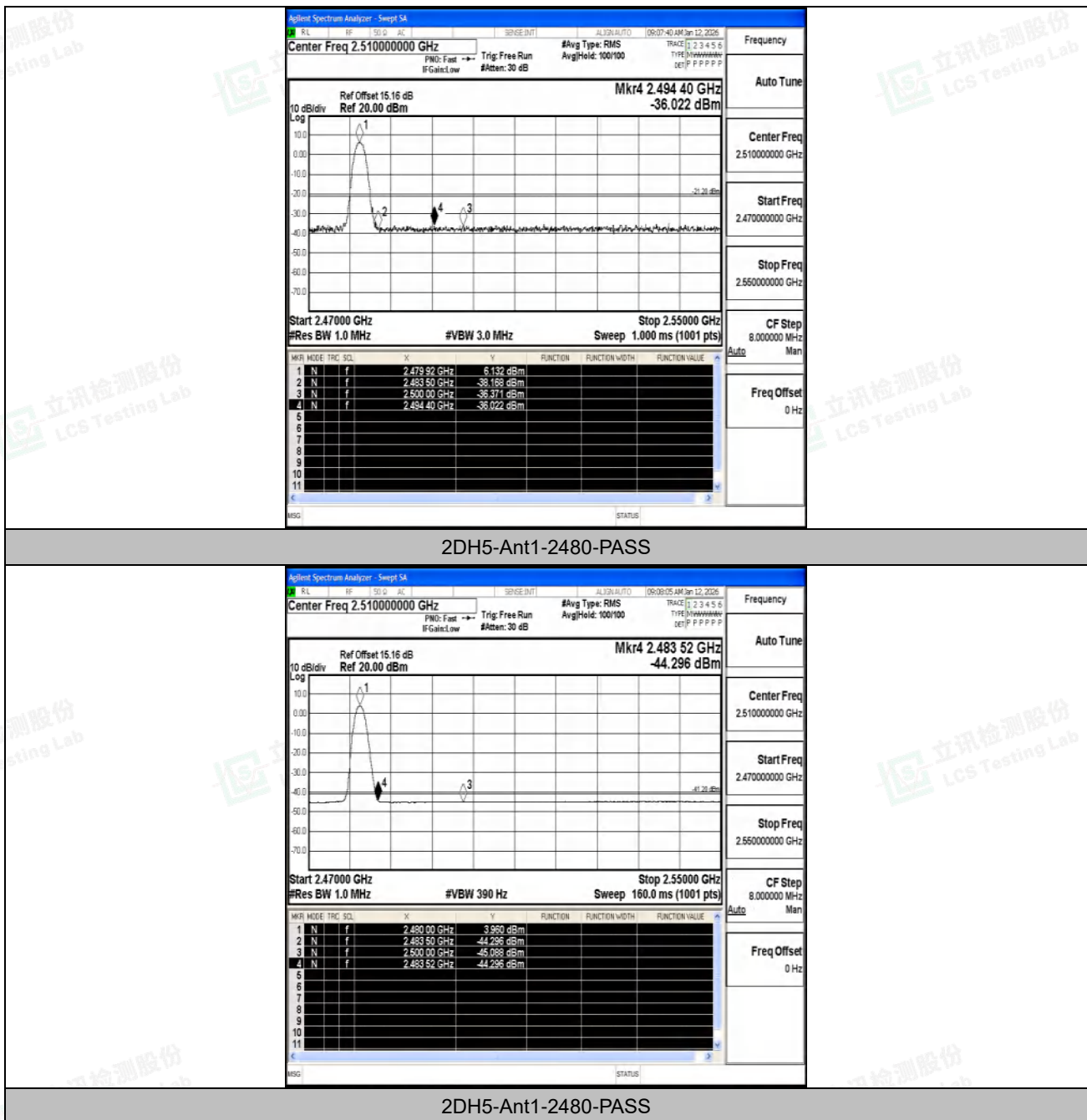


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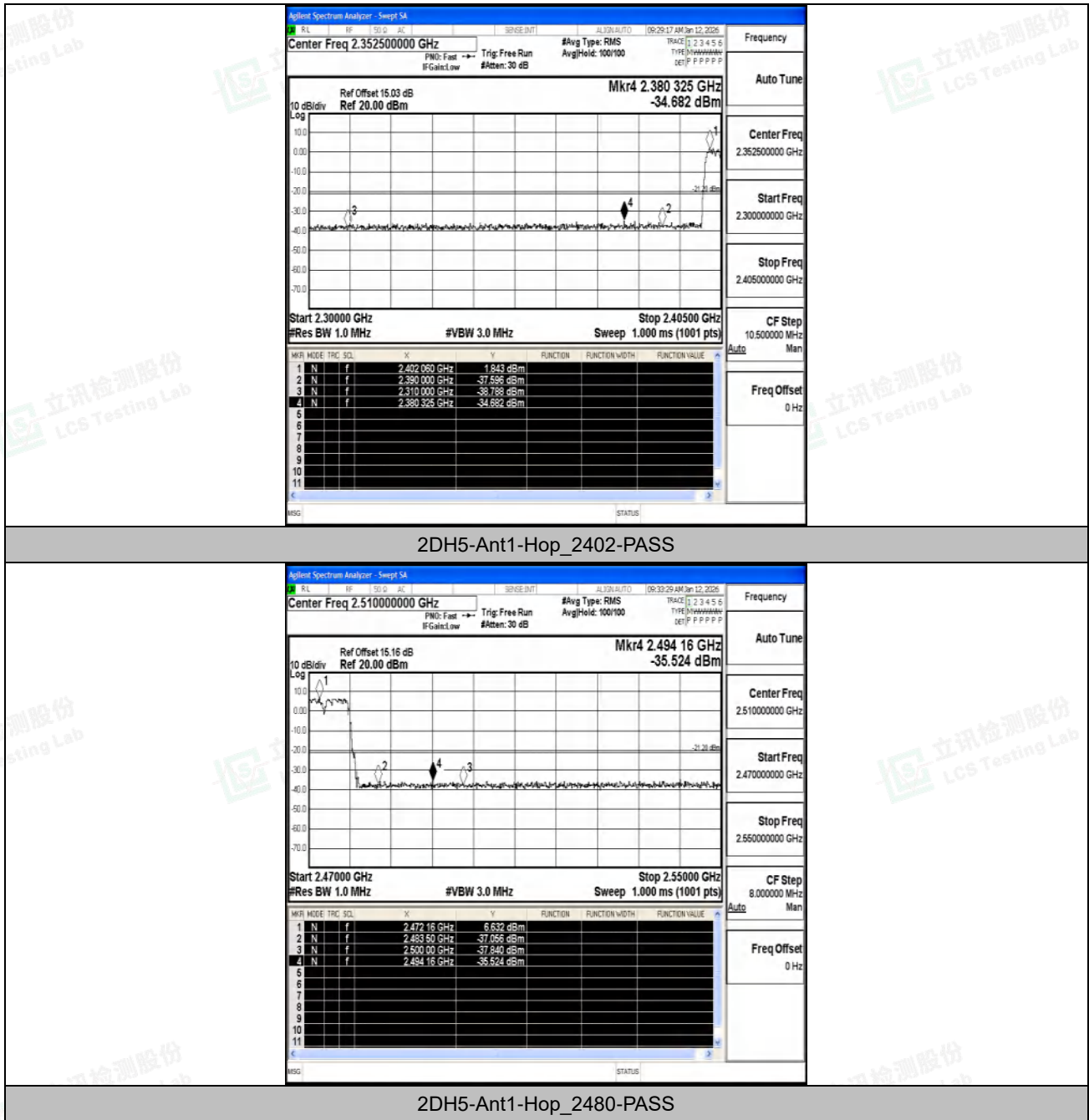


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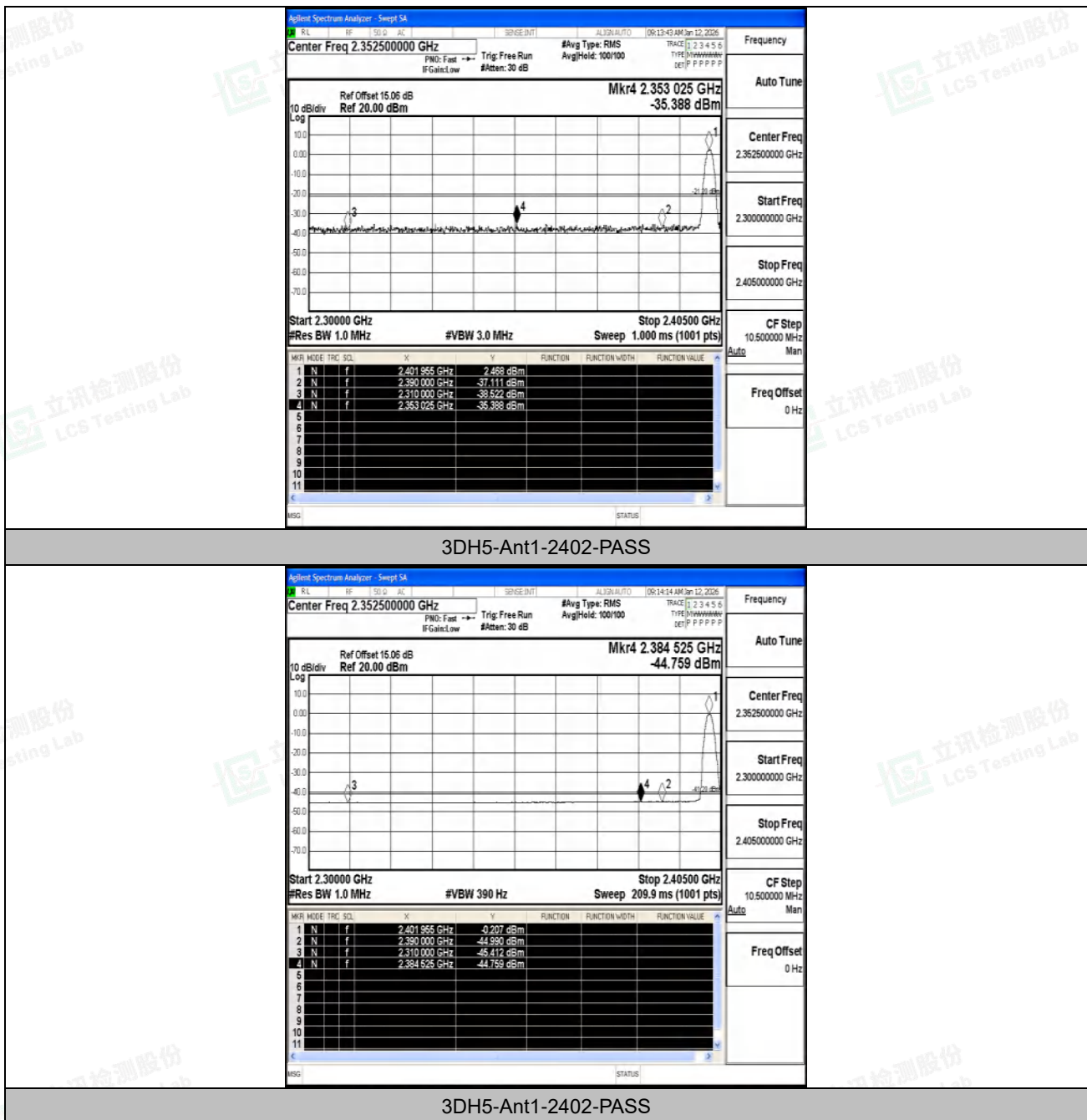


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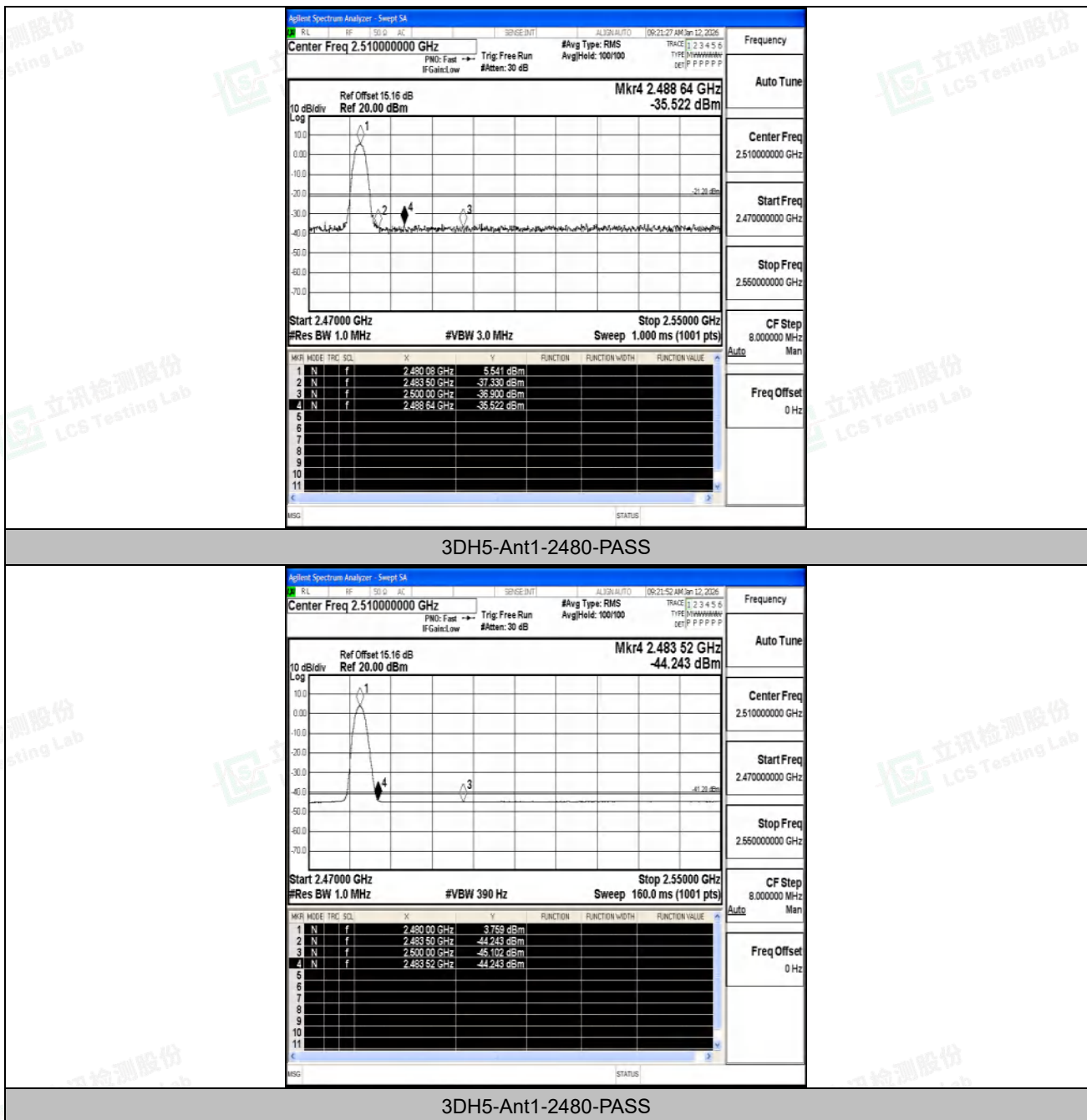


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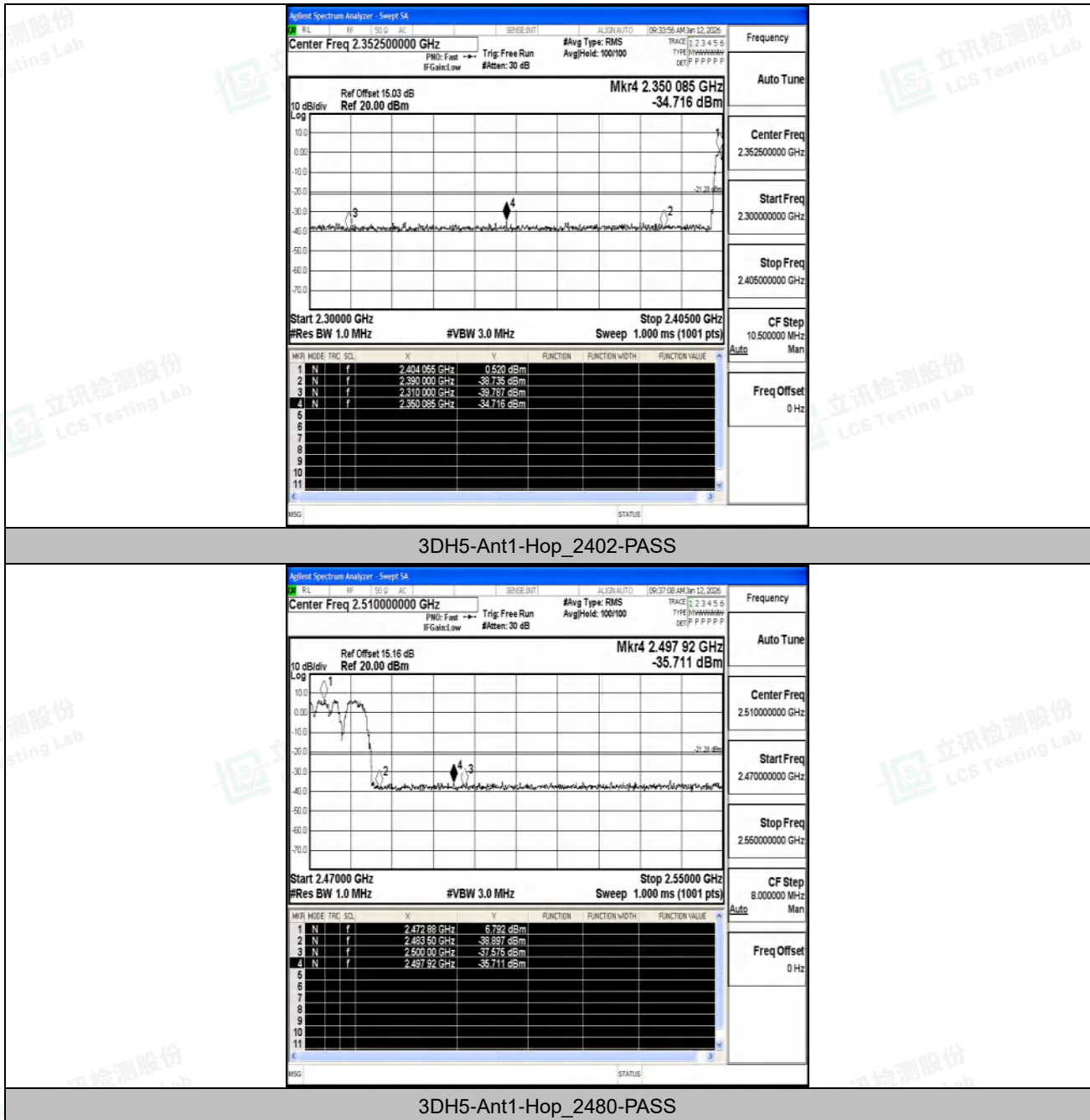


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