



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: smart pet fountain

Test Model: OC-10TY02

Environmental Conditions

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



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B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.440	2416.520	0.5	PASS
		2437	9.560	2431.960	2441.520	0.5	PASS
		2462	9.080	2457.480	2466.560	0.5	PASS
11G	Ant1	2412	15.640	2404.240	2419.880	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	34.960	2404.560	2439.520	0.5	PASS
		2437	35.440	2419.480	2454.920	0.5	PASS
		2452	35.840	2434.080	2469.920	0.5	PASS



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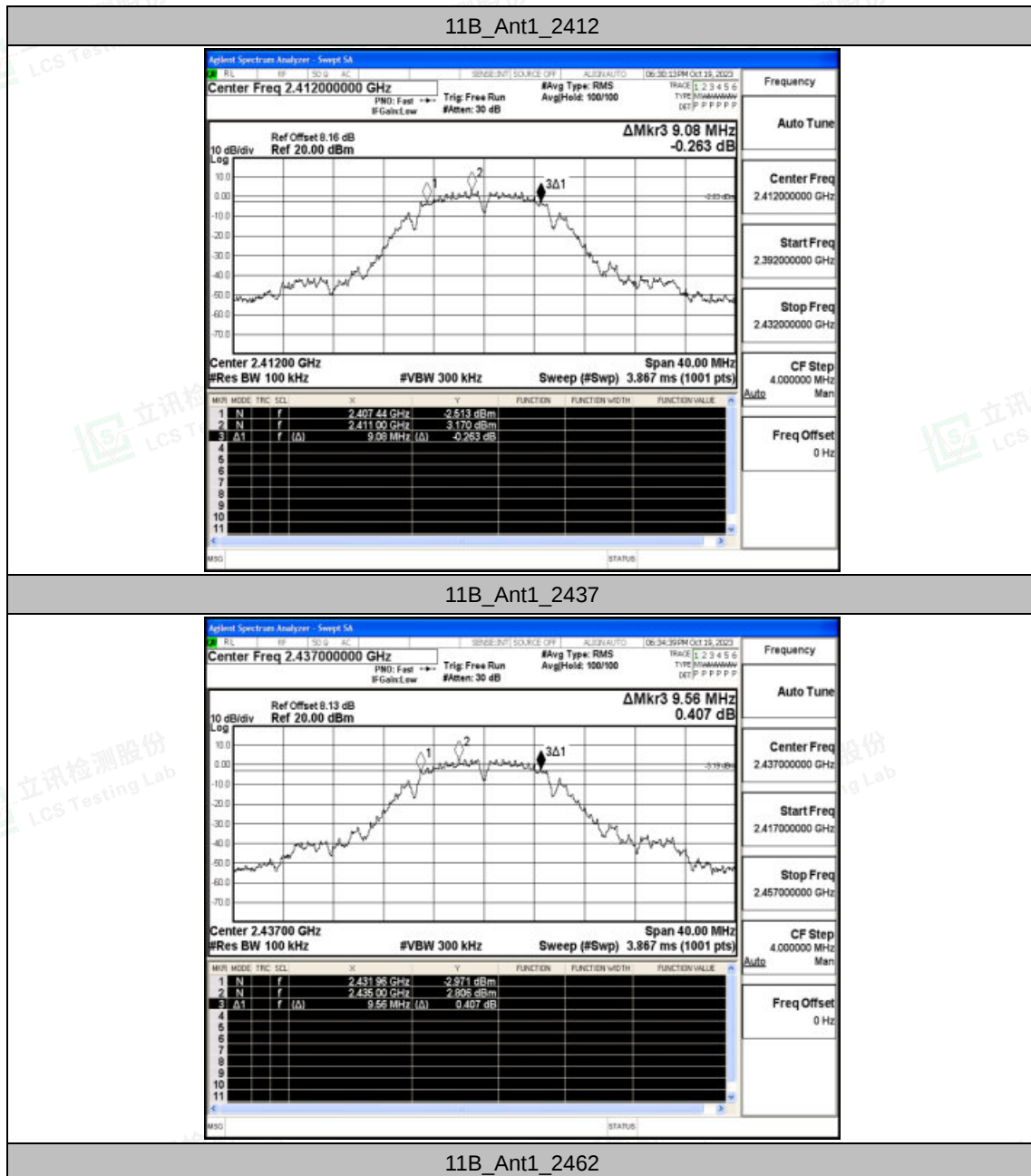
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Test Graphs

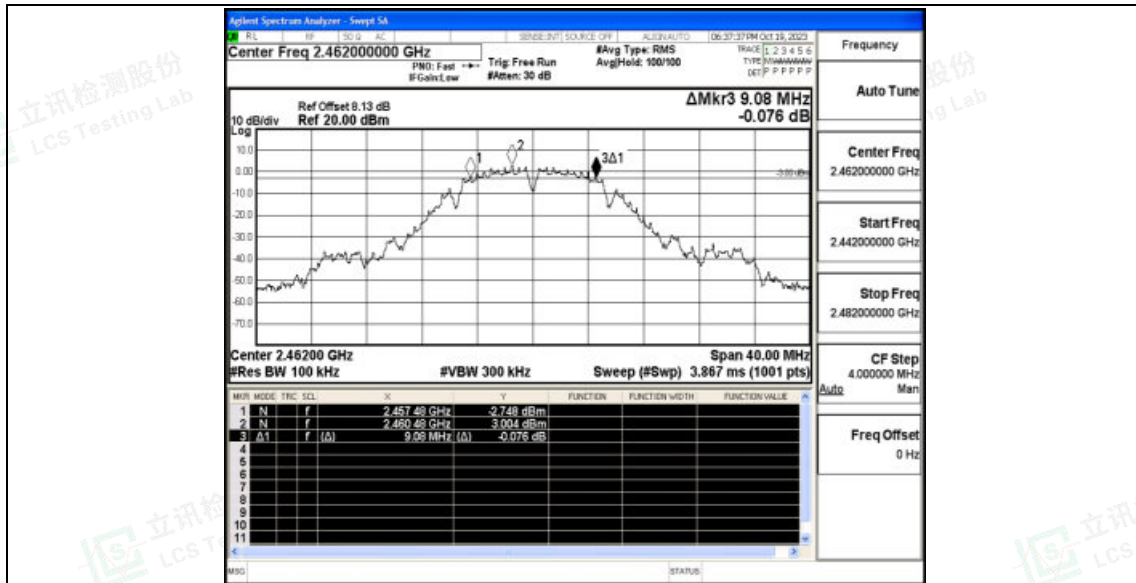


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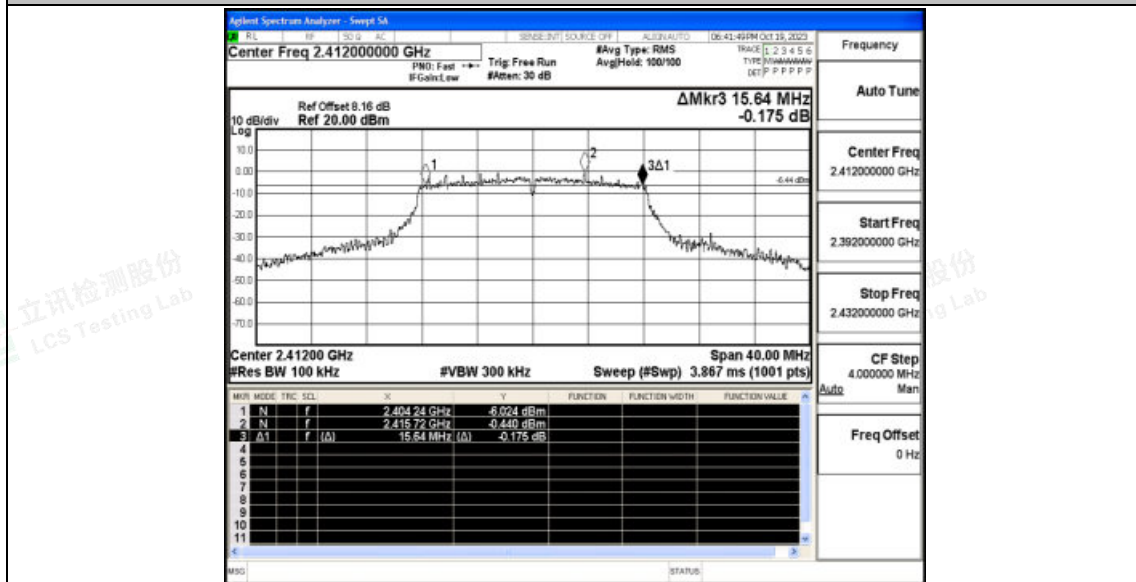
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11G_Ant1_2412



11G_Ant1_2437

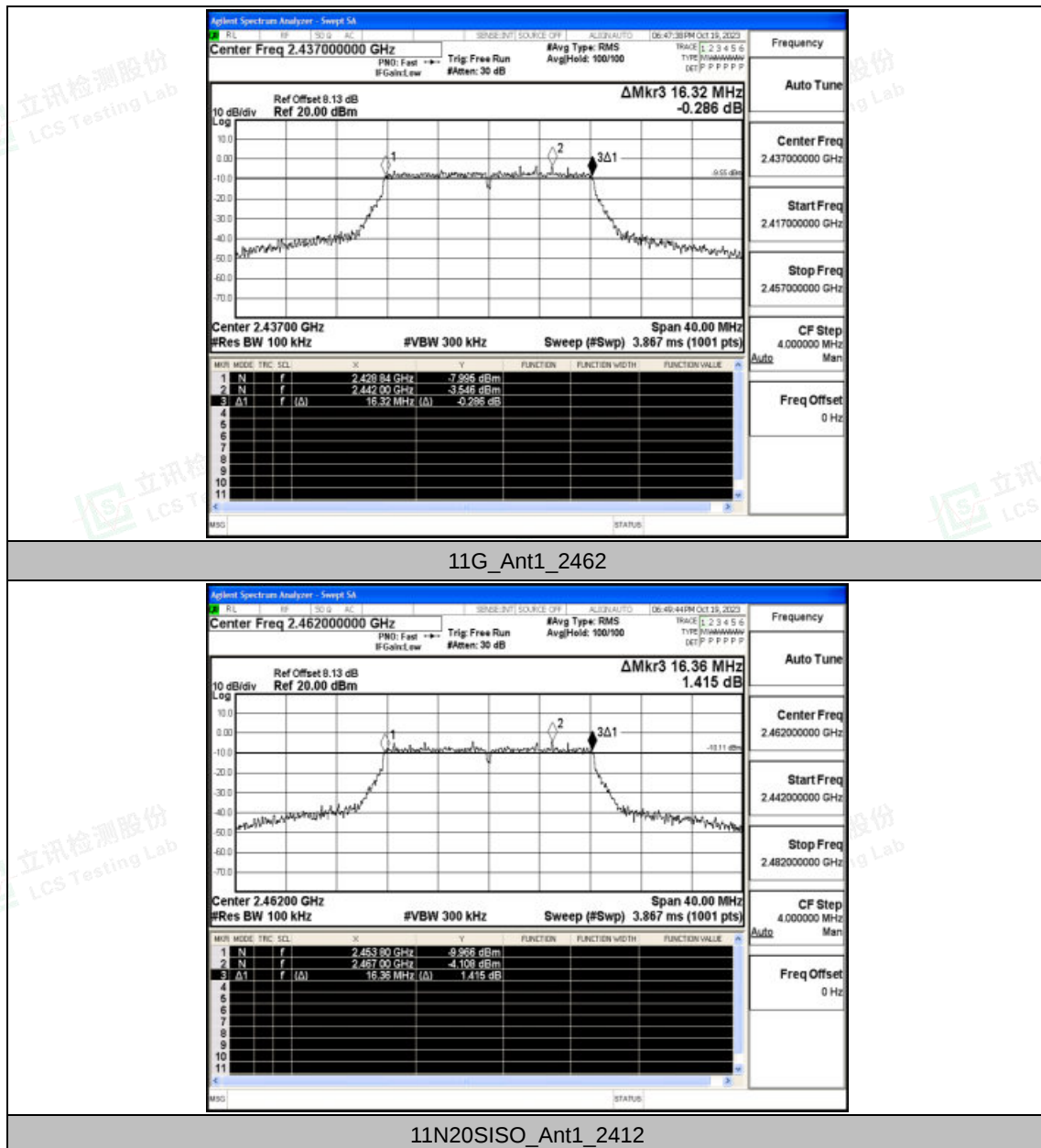


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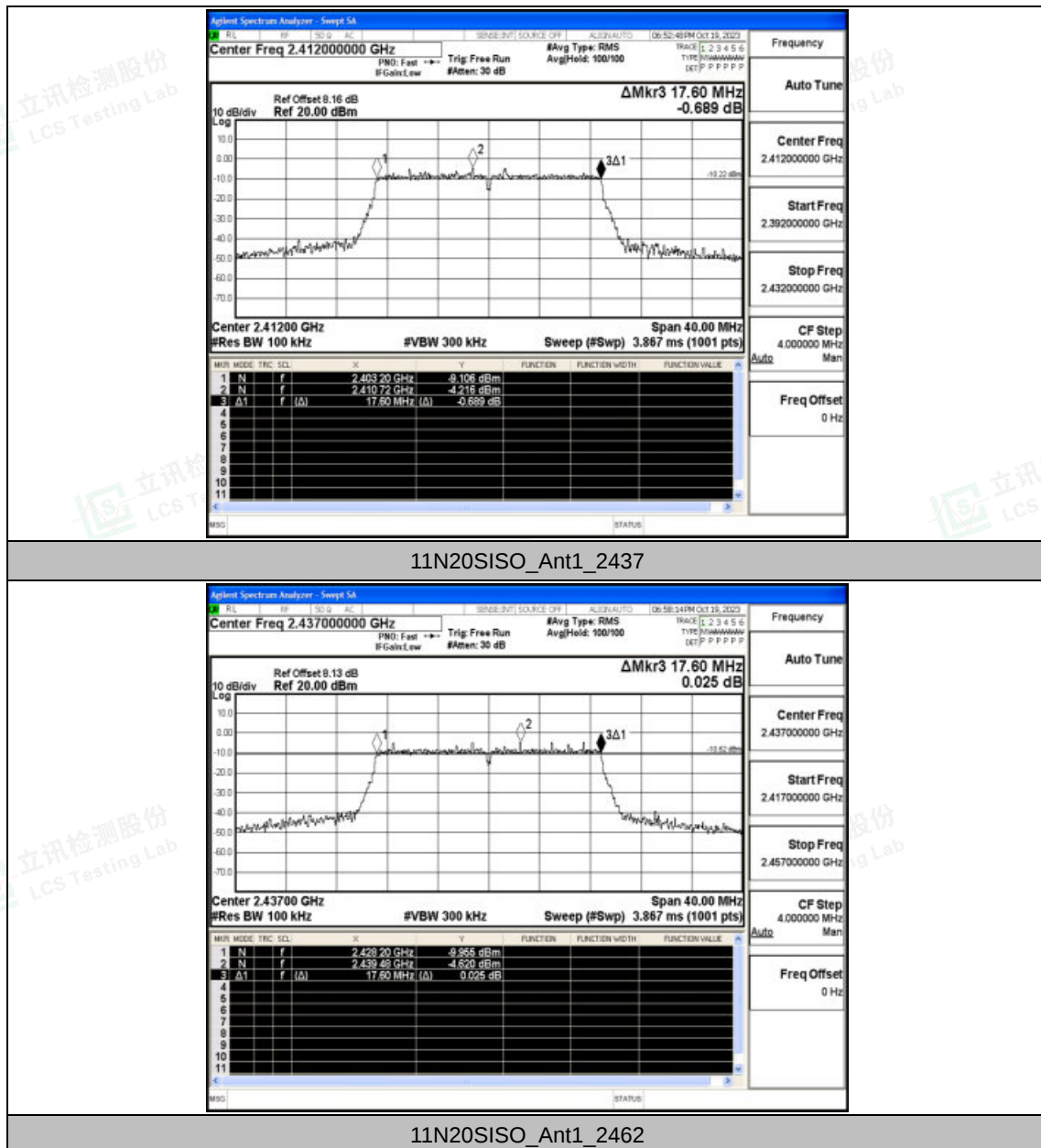


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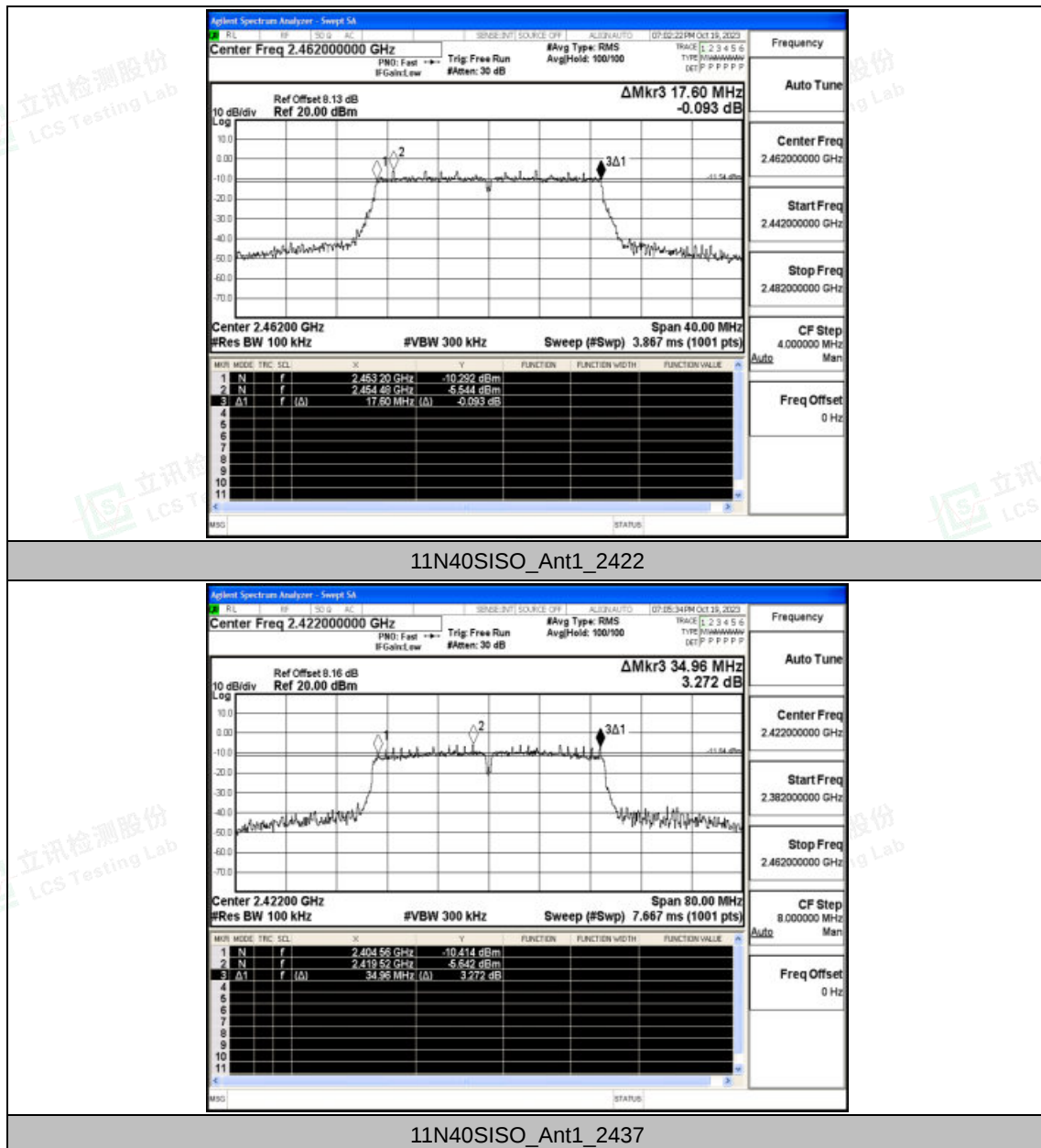


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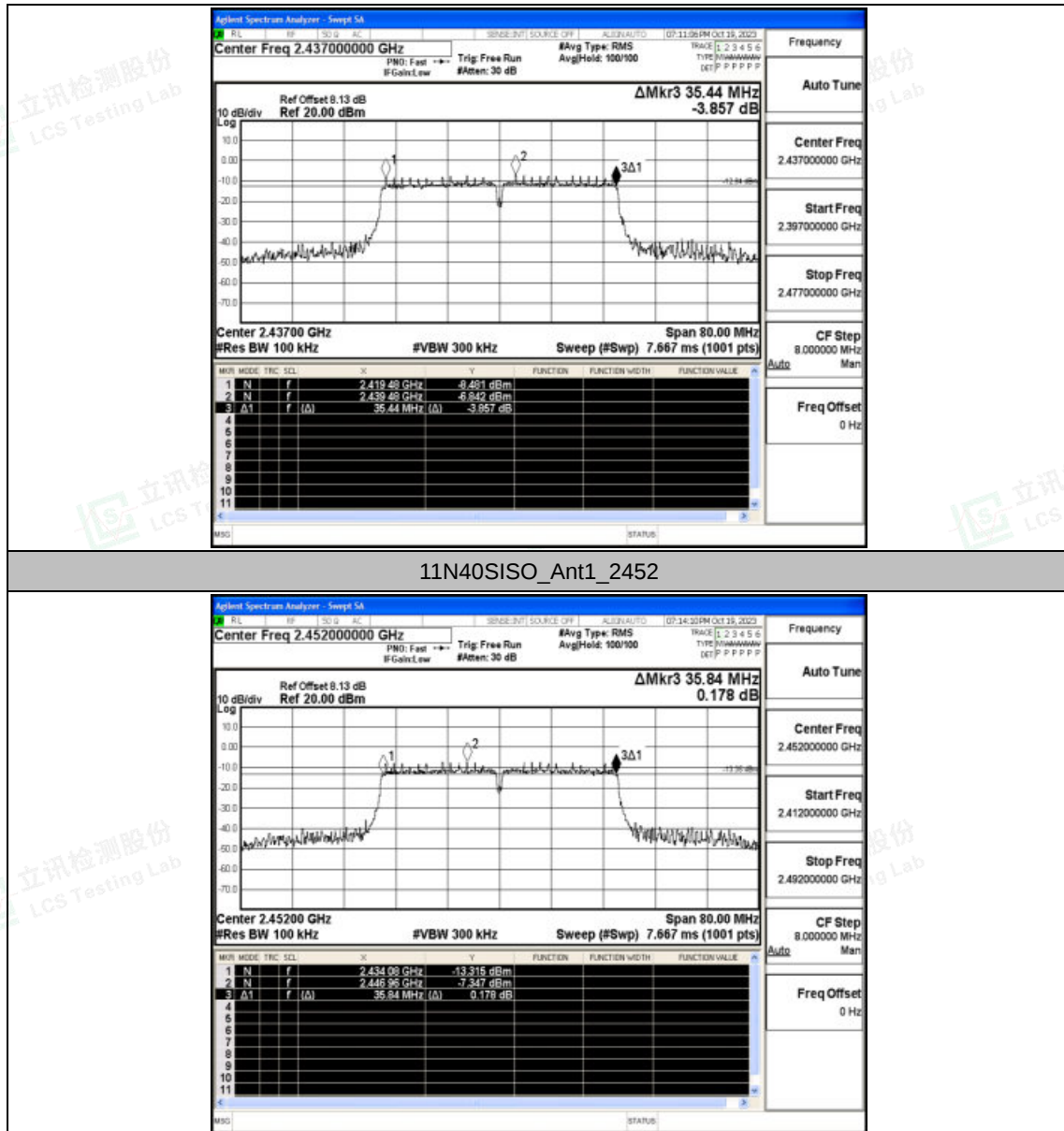


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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.14	≤30.00	PASS
		2437	15.48	≤30.00	PASS
		2462	14.95	≤30.00	PASS
11G	Ant1	2412	14.53	≤30.00	PASS
		2437	14.40	≤30.00	PASS
		2462	13.94	≤30.00	PASS
11N20SISO	Ant1	2412	13.64	≤30.00	PASS
		2437	13.47	≤30.00	PASS
		2462	12.58	≤30.00	PASS
11N40SISO	Ant1	2422	13.09	≤30.00	PASS
		2437	13.31	≤30.00	PASS
		2452	13.35	≤30.00	PASS



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B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-10.54	≤8.00	PASS
		2437	-10.38	≤8.00	PASS
		2462	-8.91	≤8.00	PASS
11G	Ant1	2412	-16.94	≤8.00	PASS
		2437	-16.04	≤8.00	PASS
		2462	-16.47	≤8.00	PASS
11N20SISO	Ant1	2412	-16.92	≤8.00	PASS
		2437	-18.24	≤8.00	PASS
		2462	-18.84	≤8.00	PASS
11N40SISO	Ant1	2422	-20.5	≤8.00	PASS
		2437	-20.17	≤8.00	PASS
		2452	-21.17	≤8.00	PASS



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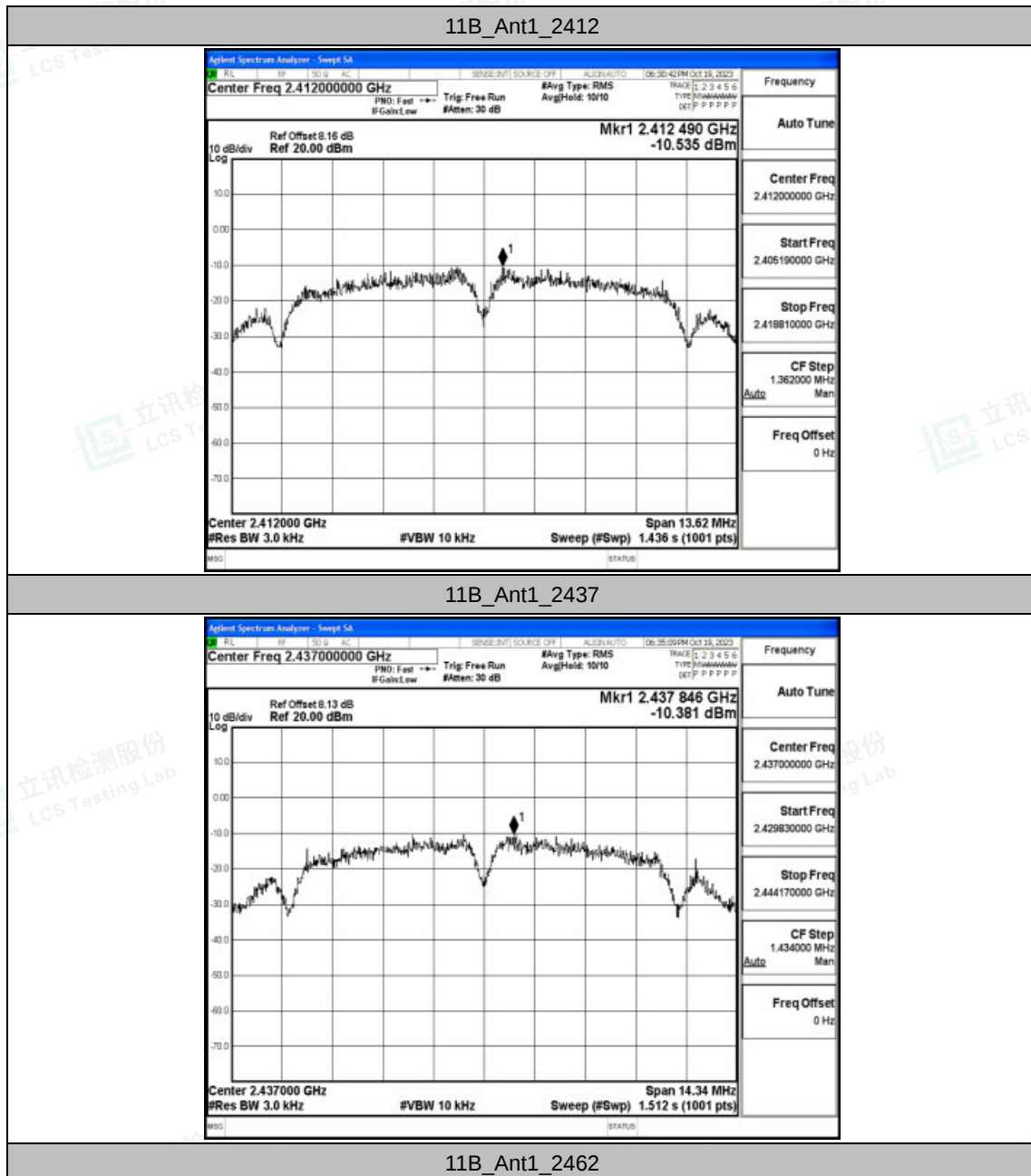
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Test Graphs

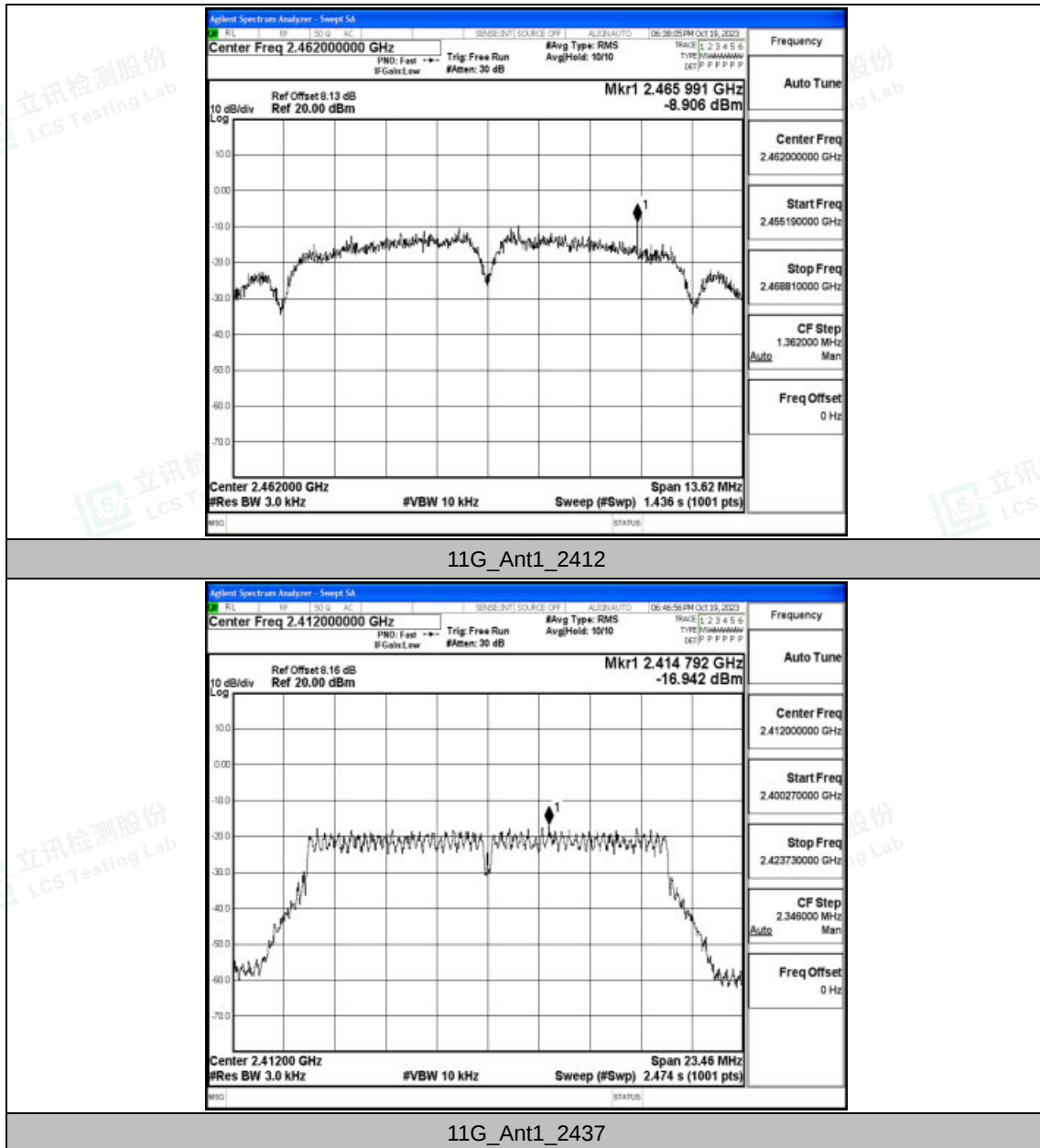


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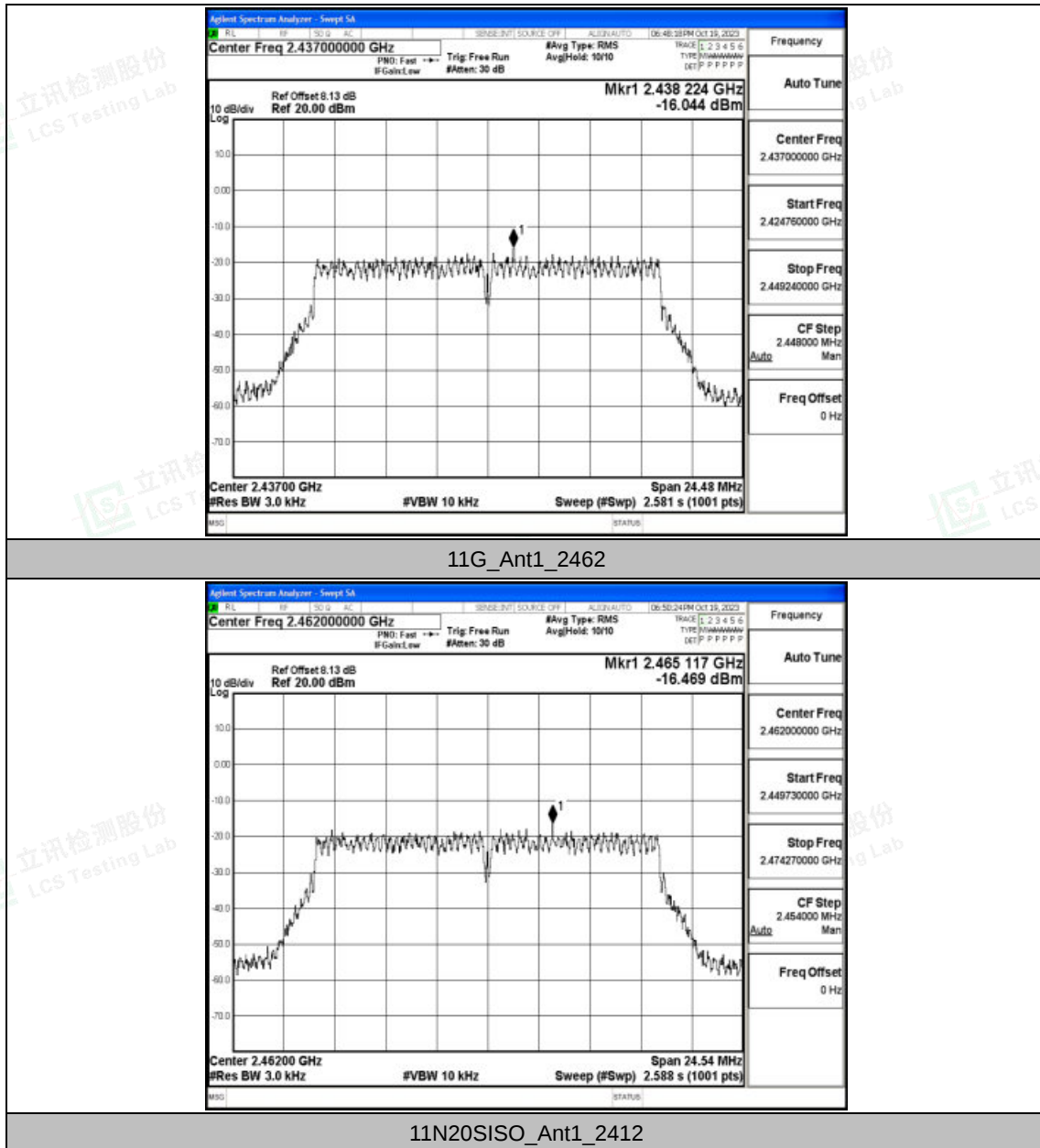


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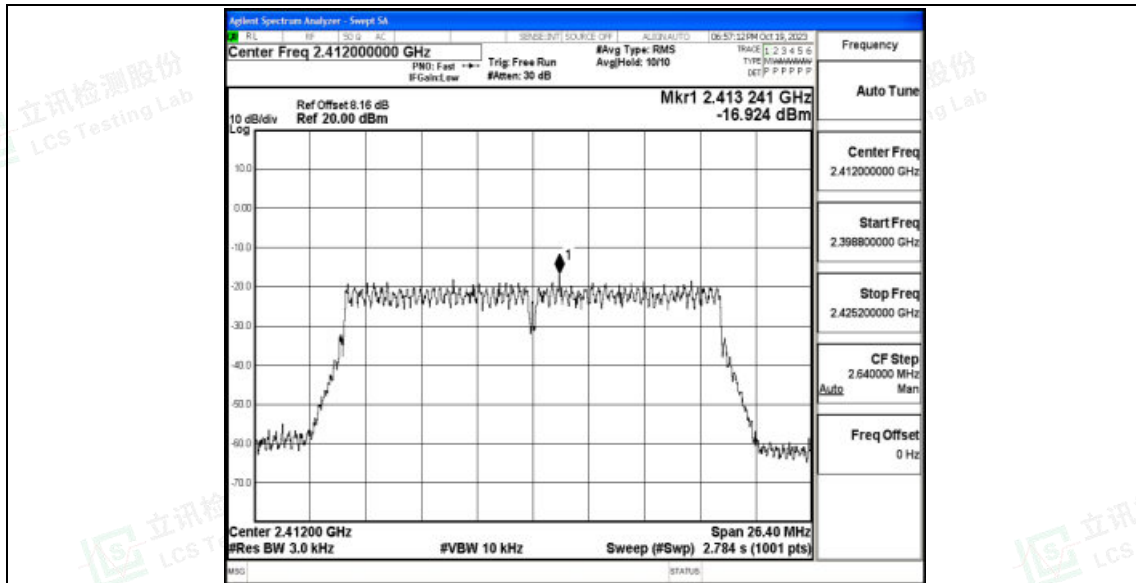


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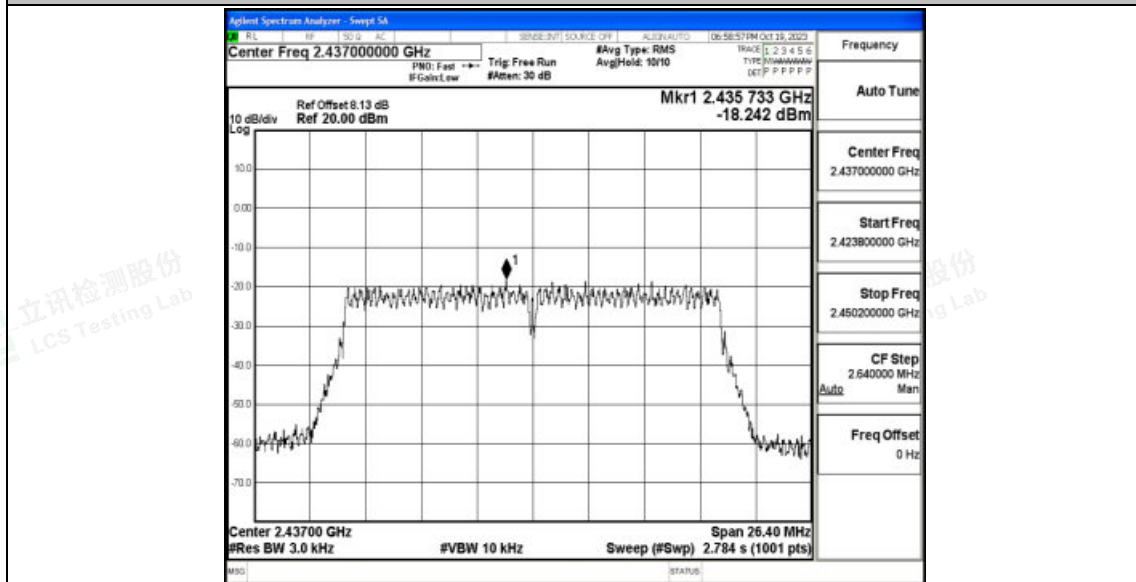
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

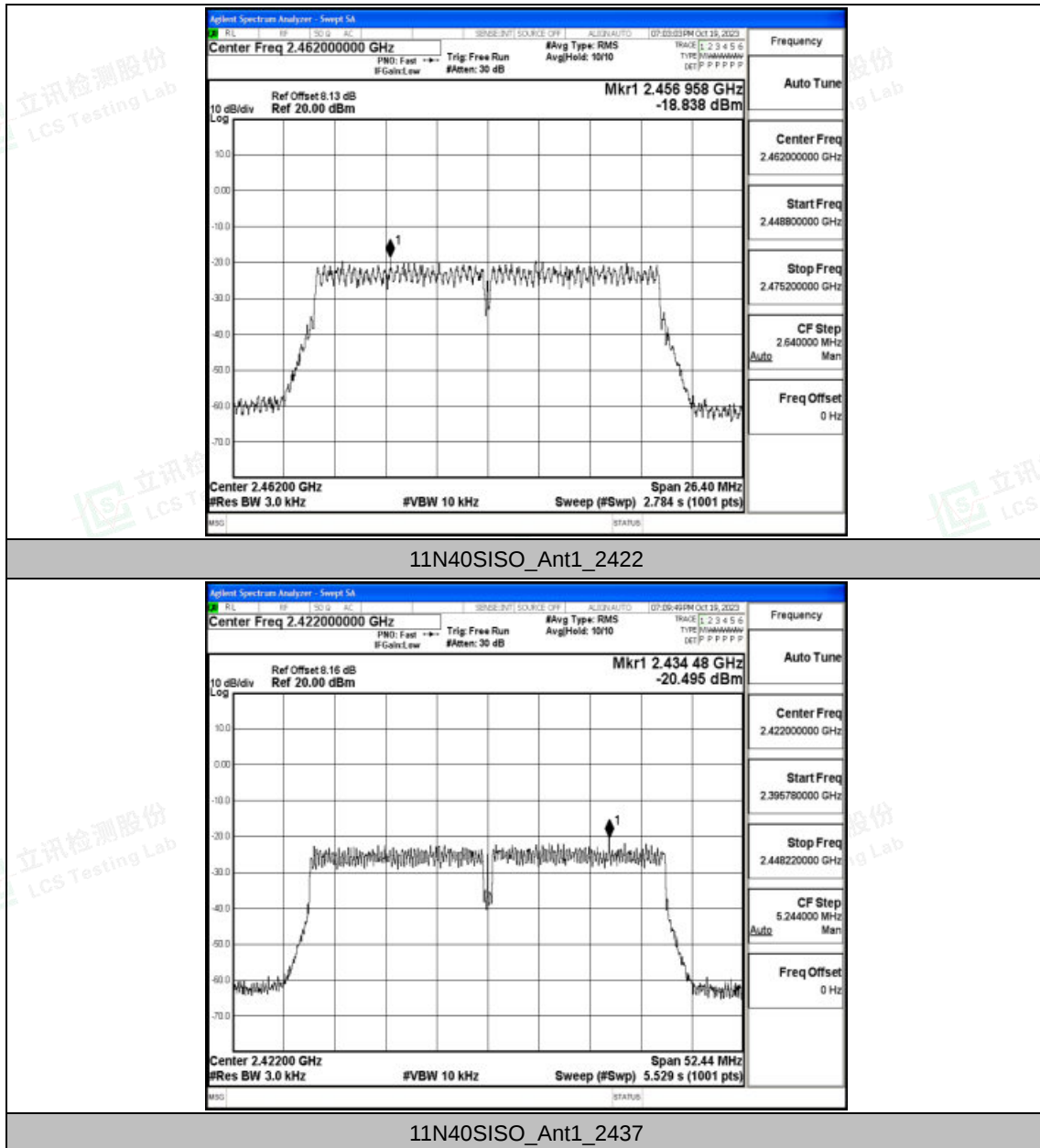


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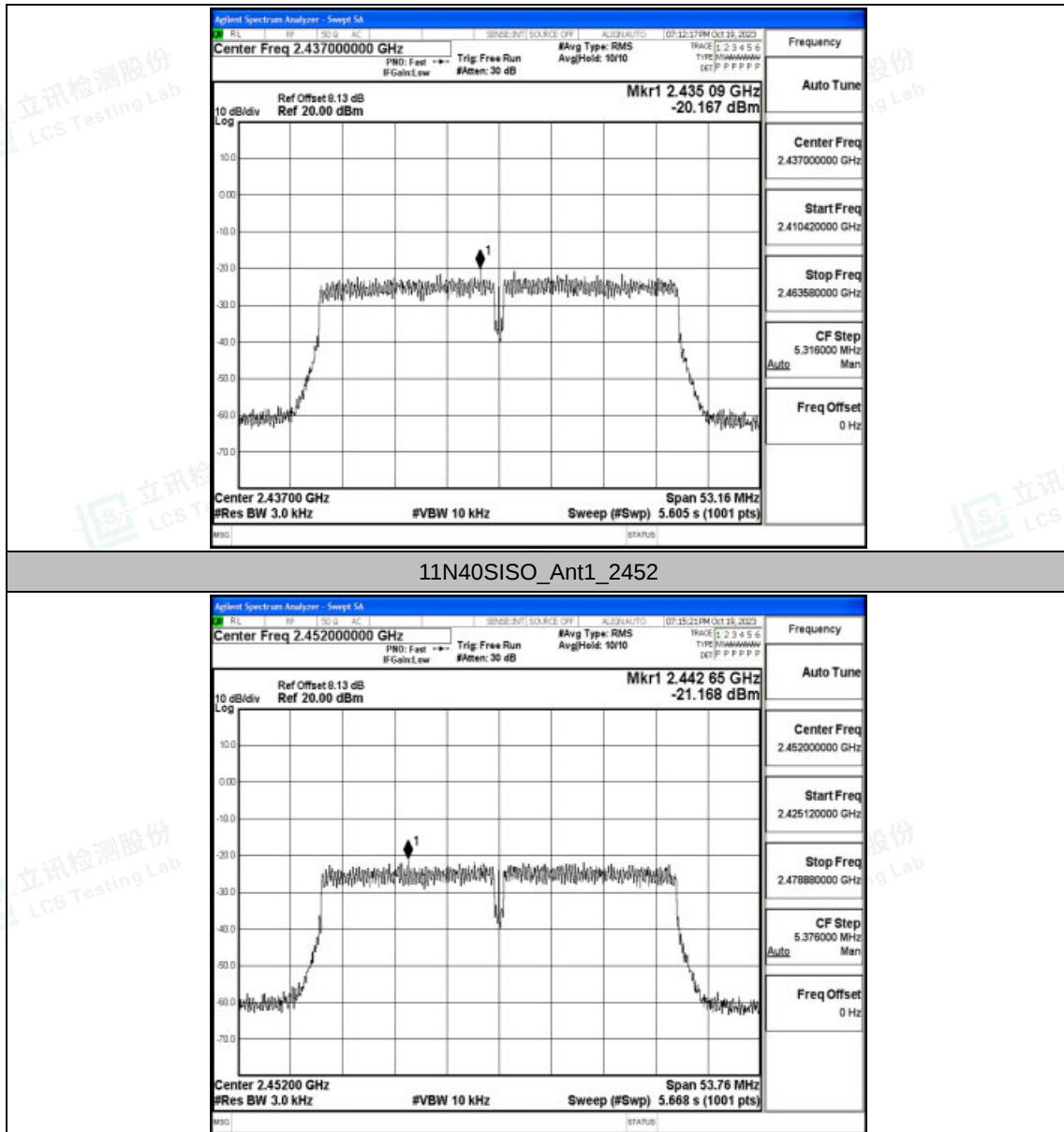


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B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.54	-41.02	≤ -16.46	PASS
		High	2462	2.85	-49.66	≤ -17.15	PASS
11G	Ant1	Low	2412	0.27	-31.49	≤ -19.73	PASS
		High	2462	-3.93	-46.34	≤ -23.93	PASS
11N20SISO	Ant1	Low	2412	-4.05	-41.67	≤ -24.05	PASS
		High	2462	-6.44	-48.86	≤ -26.44	PASS
11N40SISO	Ant1	Low	2422	-6.00	-38.5	≤ -26	PASS
		High	2452	-7.37	-40.38	≤ -27.37	PASS



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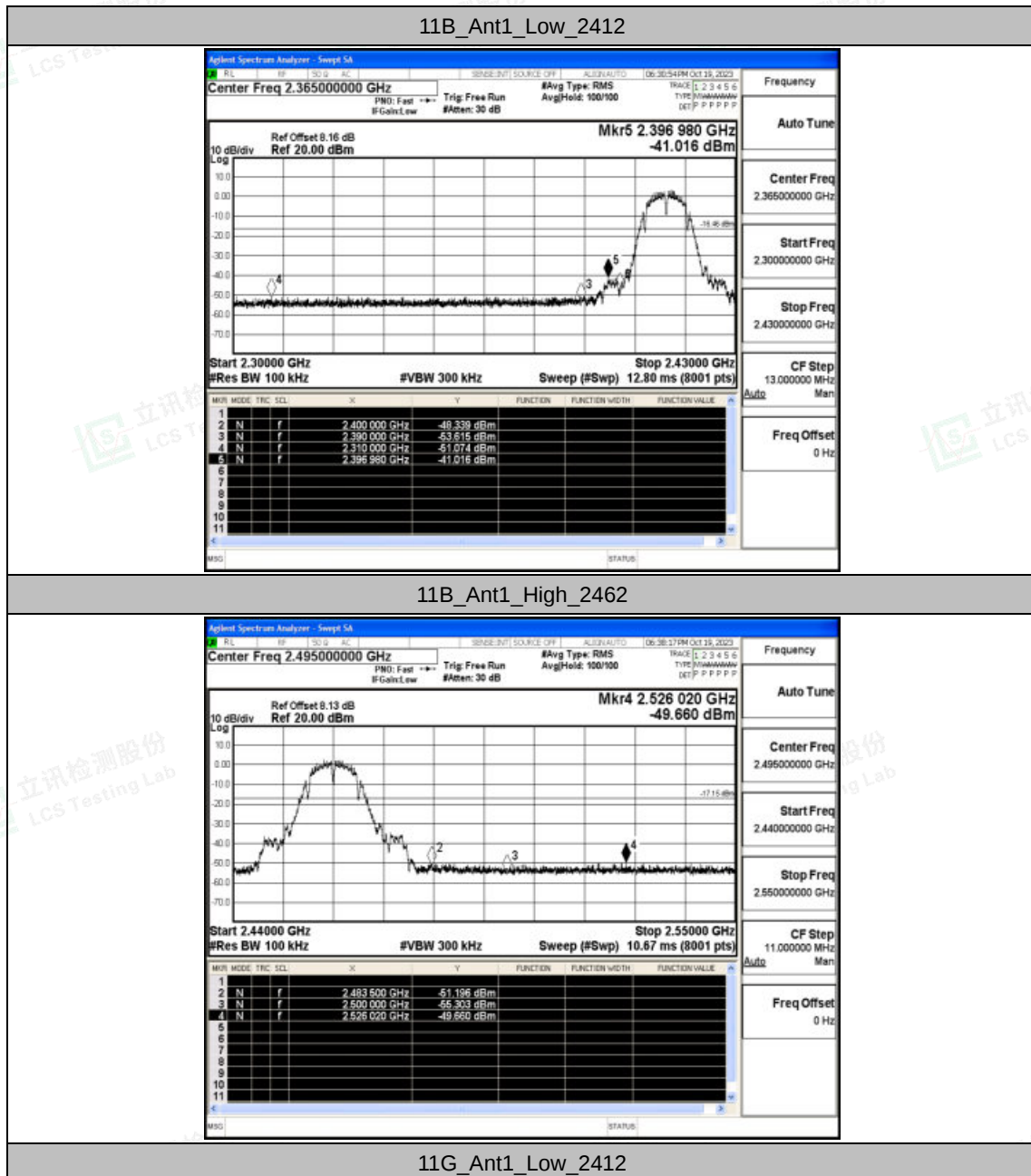
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Test Graphs

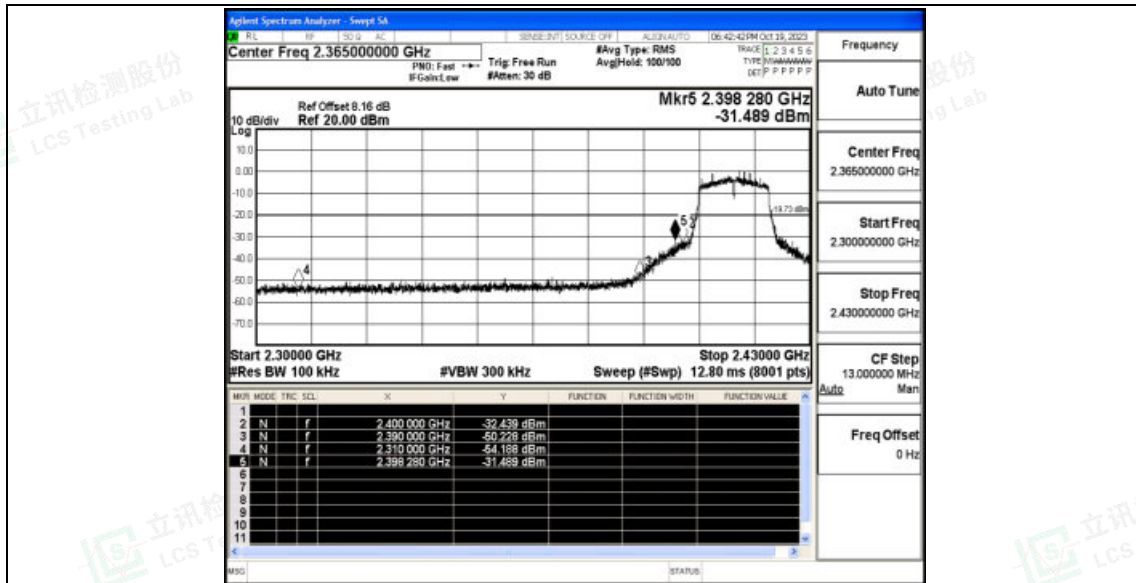


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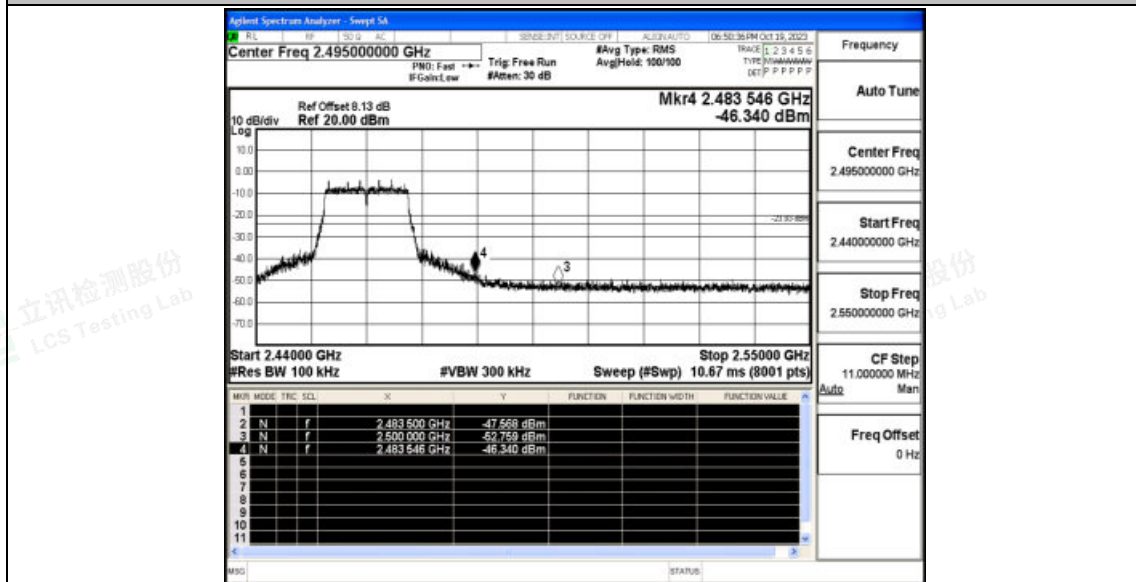
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

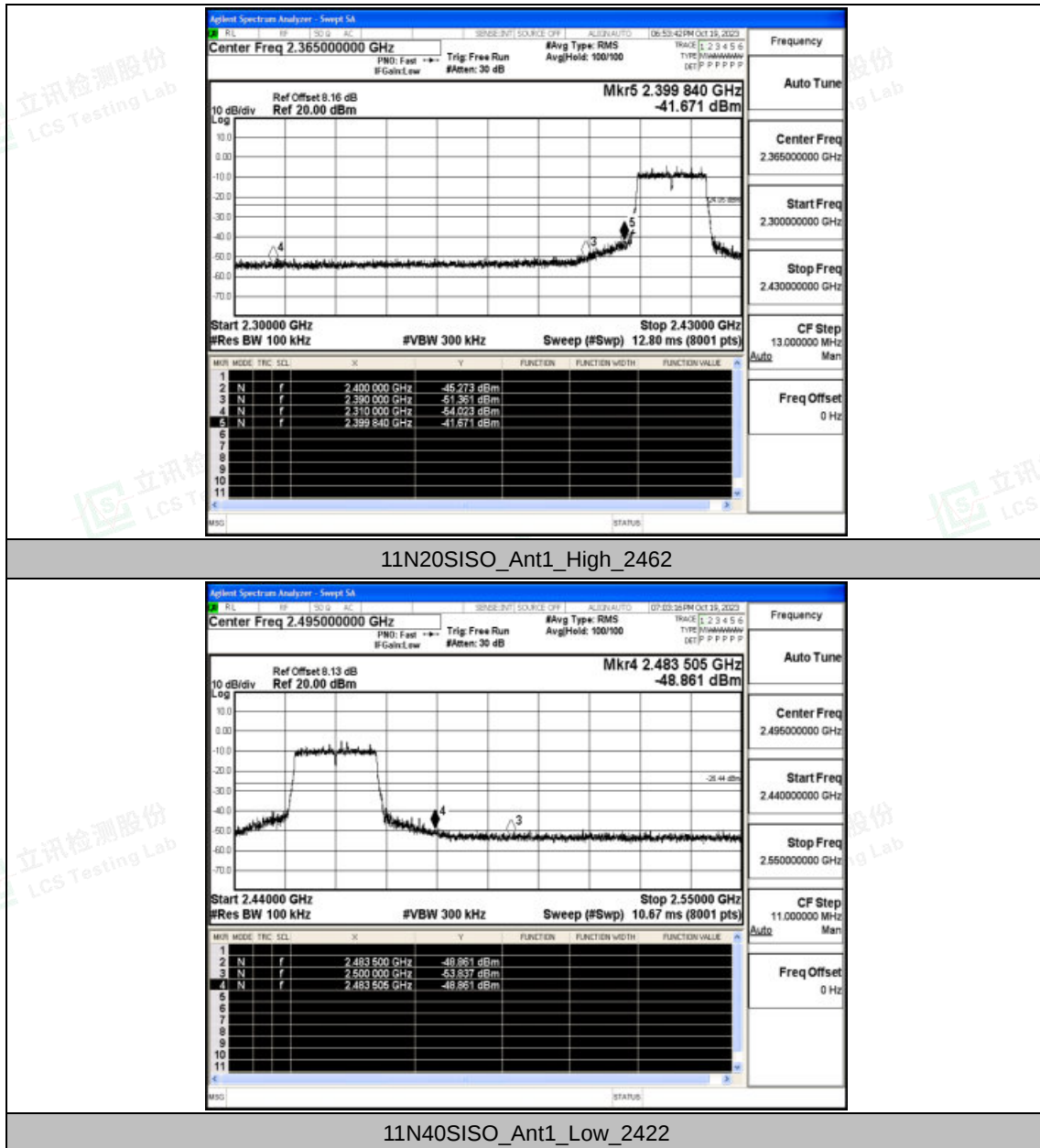


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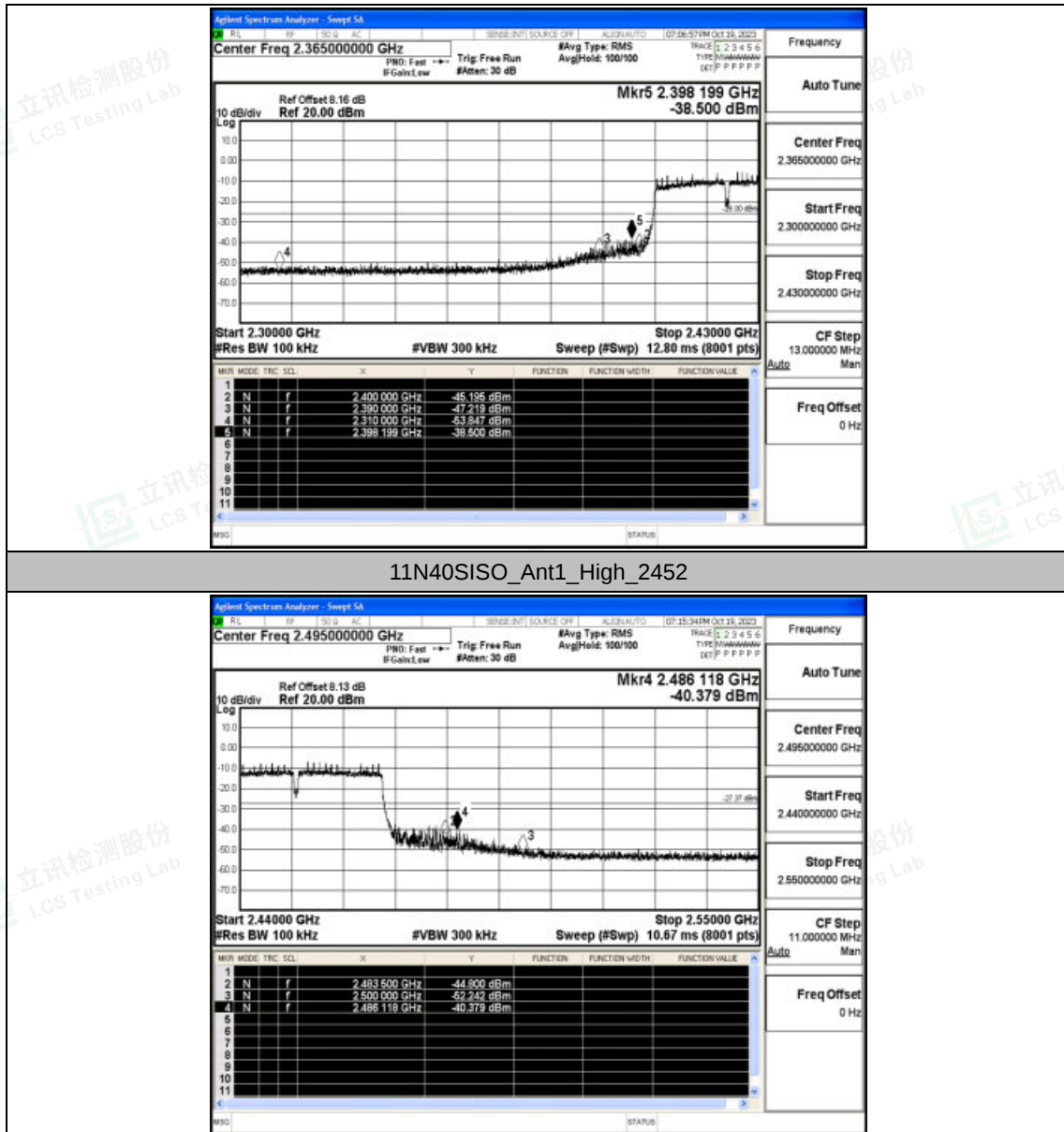


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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	3.54	-60.22	≤-16.46	PASS
			1000~26500	3.54	-48.52	≤-16.46	PASS
		2437	30~1000	3.84	-61.48	≤-16.16	PASS
			1000~26500	3.84	-47.67	≤-16.16	PASS
		2462	30~1000	2.85	-61.62	≤-17.15	PASS
			1000~26500	2.85	-49.51	≤-17.15	PASS
11G	Ant1	2412	30~1000	0.27	-61.59	≤-19.73	PASS
			1000~26500	0.27	-48.68	≤-19.73	PASS
		2437	30~1000	-4.20	-61.61	≤-24.2	PASS
			1000~26500	-4.20	-48.21	≤-24.2	PASS
		2462	30~1000	-3.93	-61.9	≤-23.93	PASS
			1000~26500	-3.93	-48.71	≤-23.93	PASS
11N20SISO	Ant1	2412	30~1000	-4.05	-62.3	≤-24.05	PASS
			1000~26500	-4.05	-48.63	≤-24.05	PASS
		2437	30~1000	-3.95	-61.45	≤-23.95	PASS
			1000~26500	-3.95	-48.97	≤-23.95	PASS
		2462	30~1000	-6.44	-61.08	≤-26.44	PASS
			1000~26500	-6.44	-49.4	≤-26.44	PASS
11N40SISO	Ant1	2422	30~1000	-6.00	-60.66	≤-26	PASS
			1000~26500	-6.00	-49.29	≤-26	PASS
		2437	30~1000	-7.17	-61.72	≤-27.17	PASS
			1000~26500	-7.17	-48.35	≤-27.17	PASS
		2452	30~1000	-7.37	-62	≤-27.37	PASS
			1000~26500	-7.37	-48.56	≤-27.37	PASS



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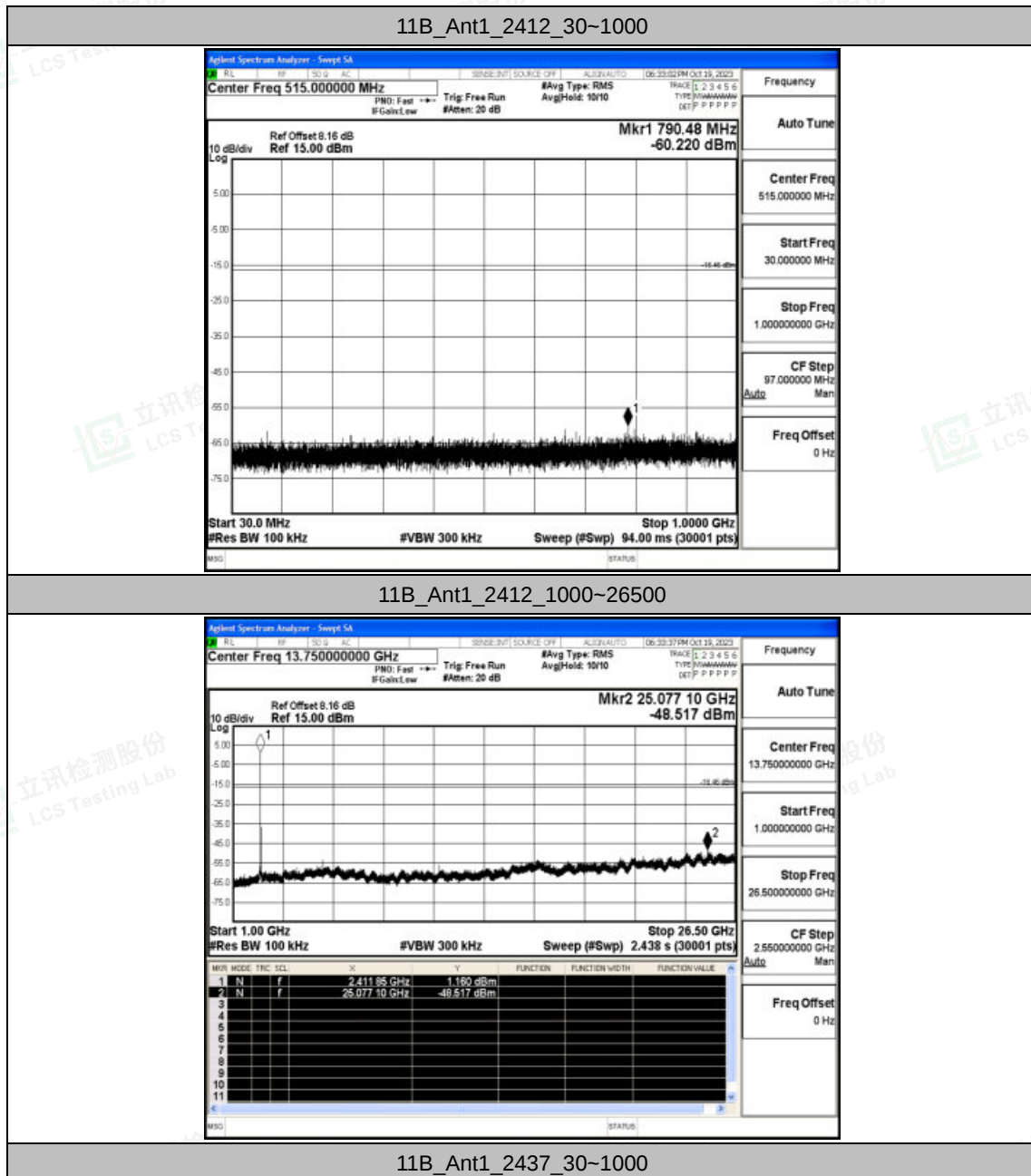
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Test Graphs

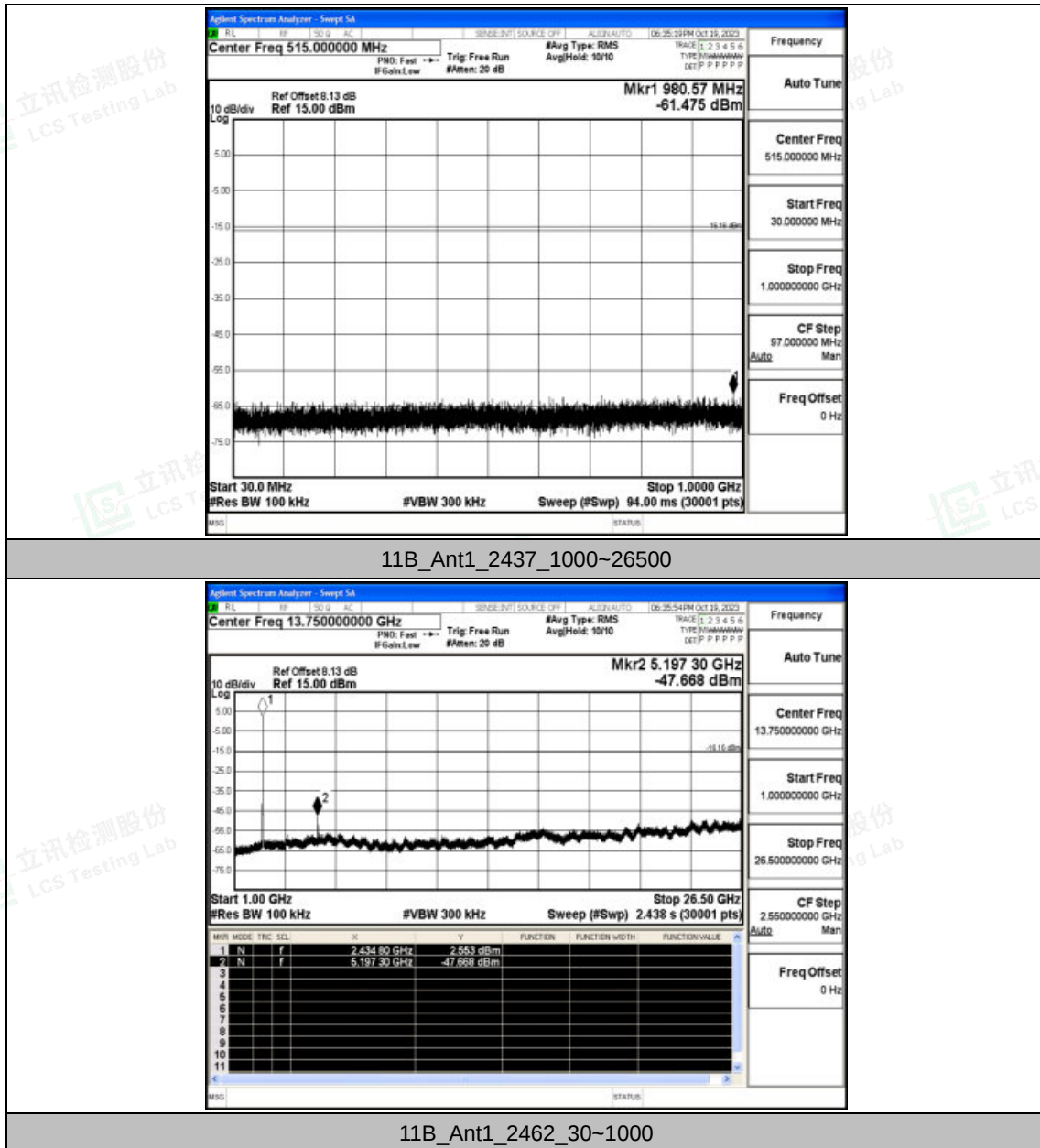


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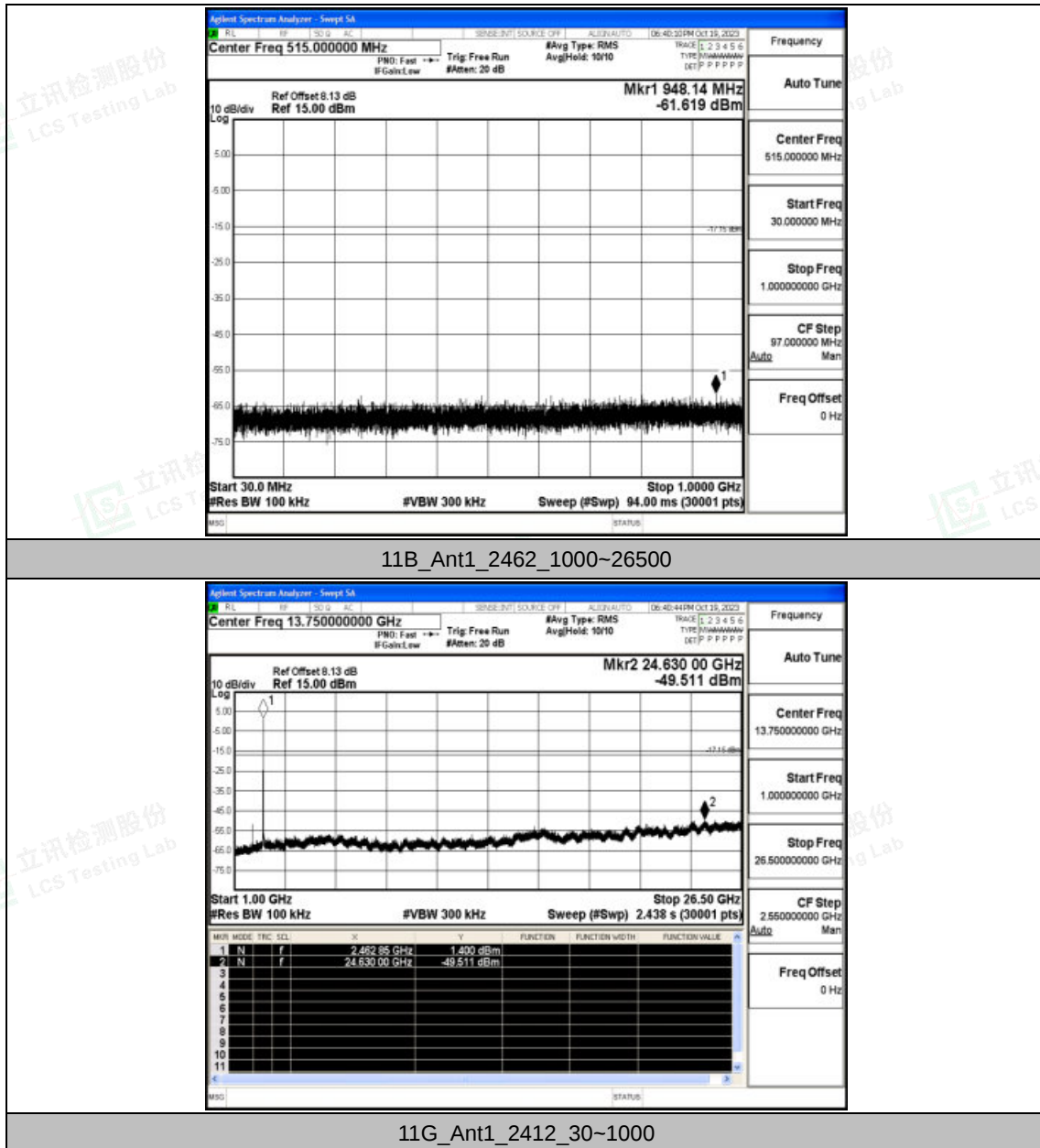


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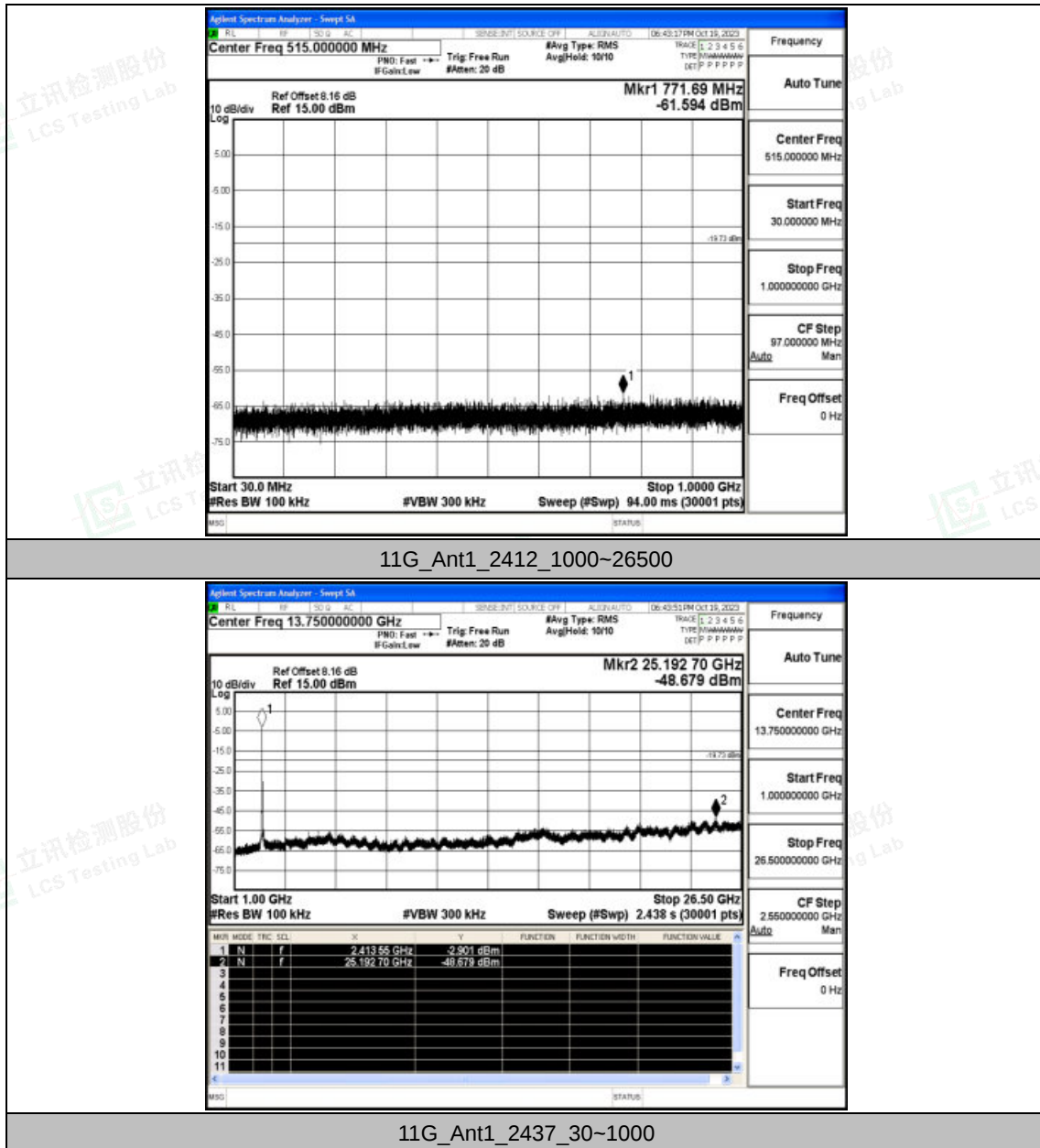


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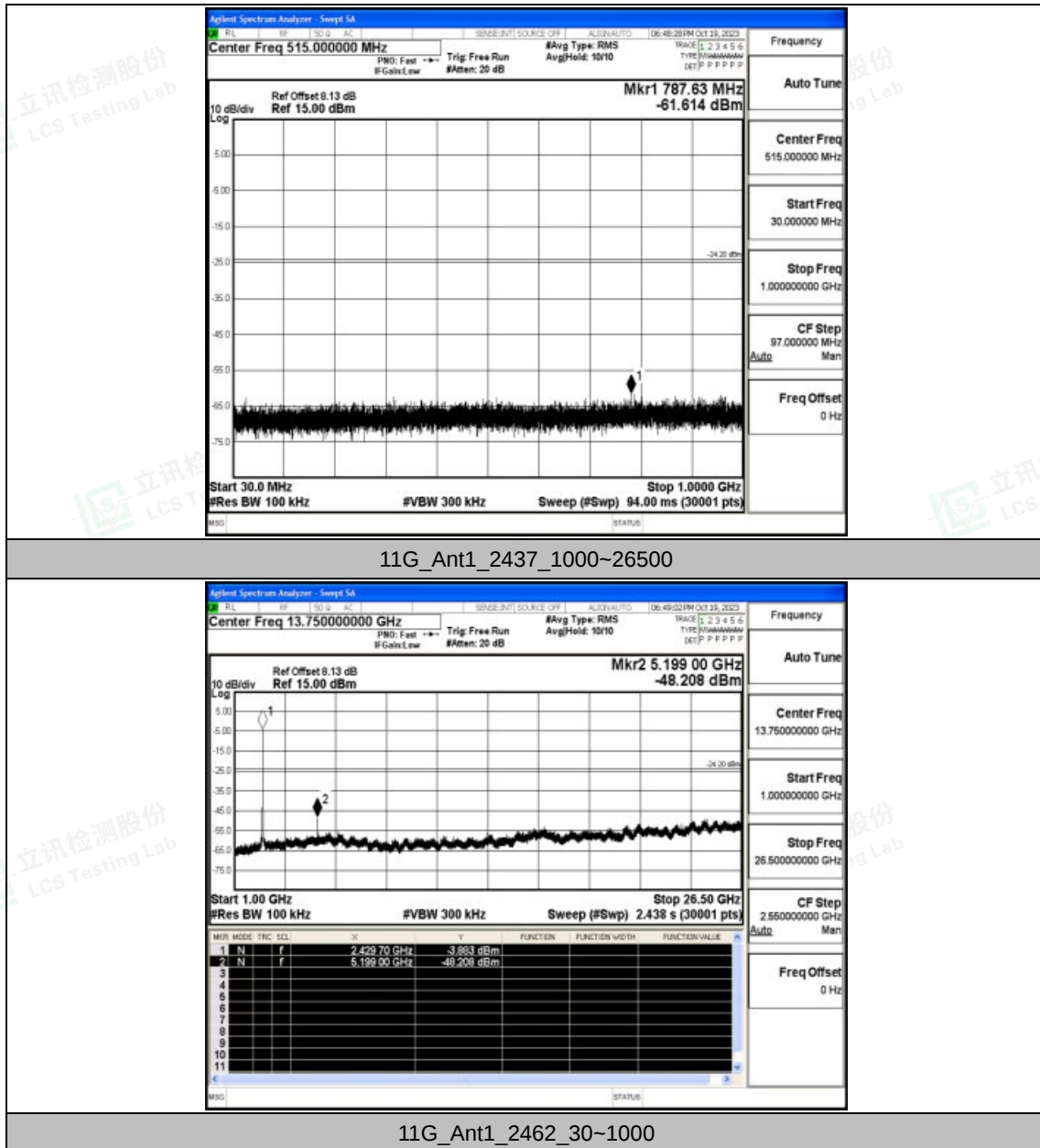


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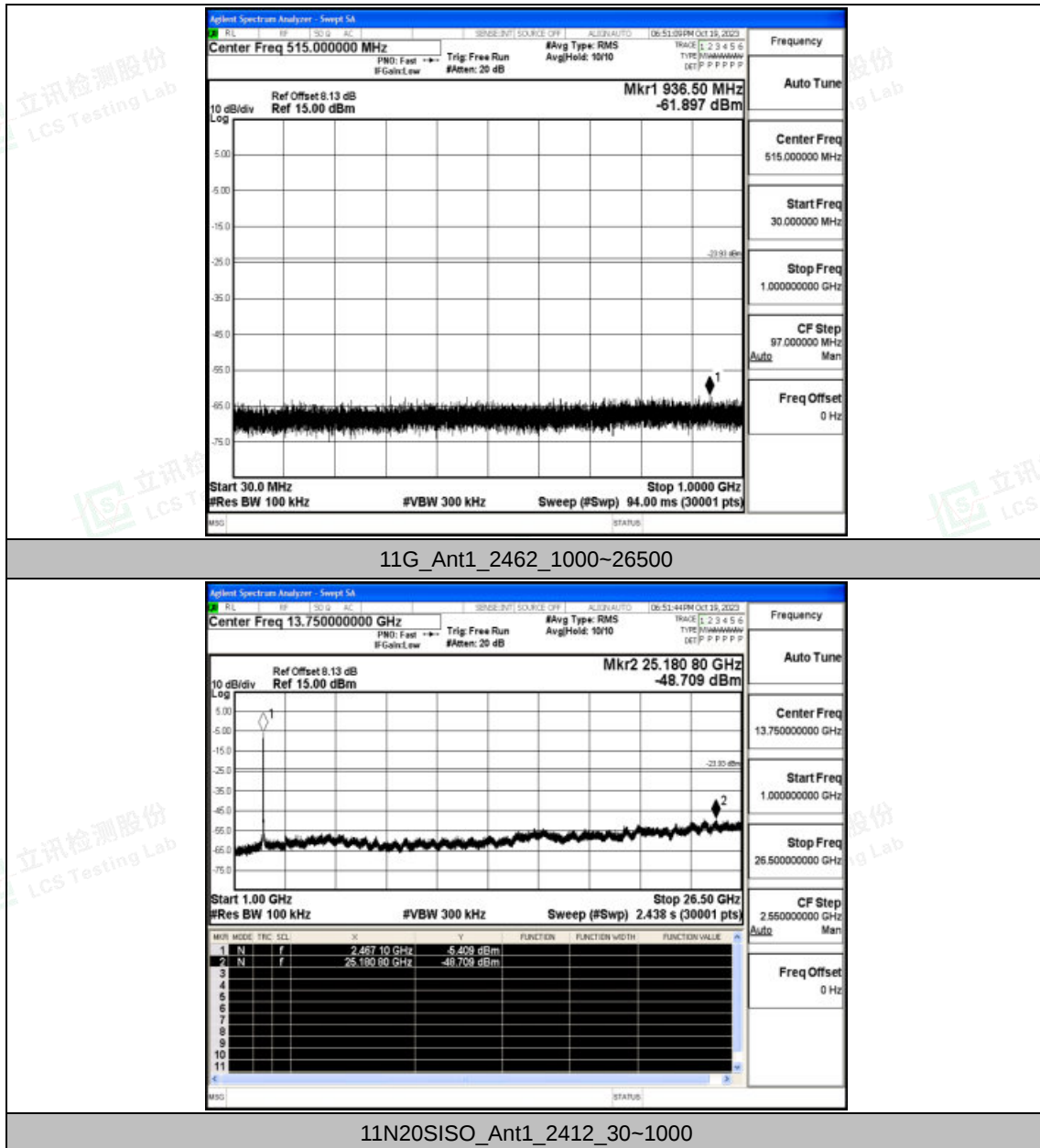


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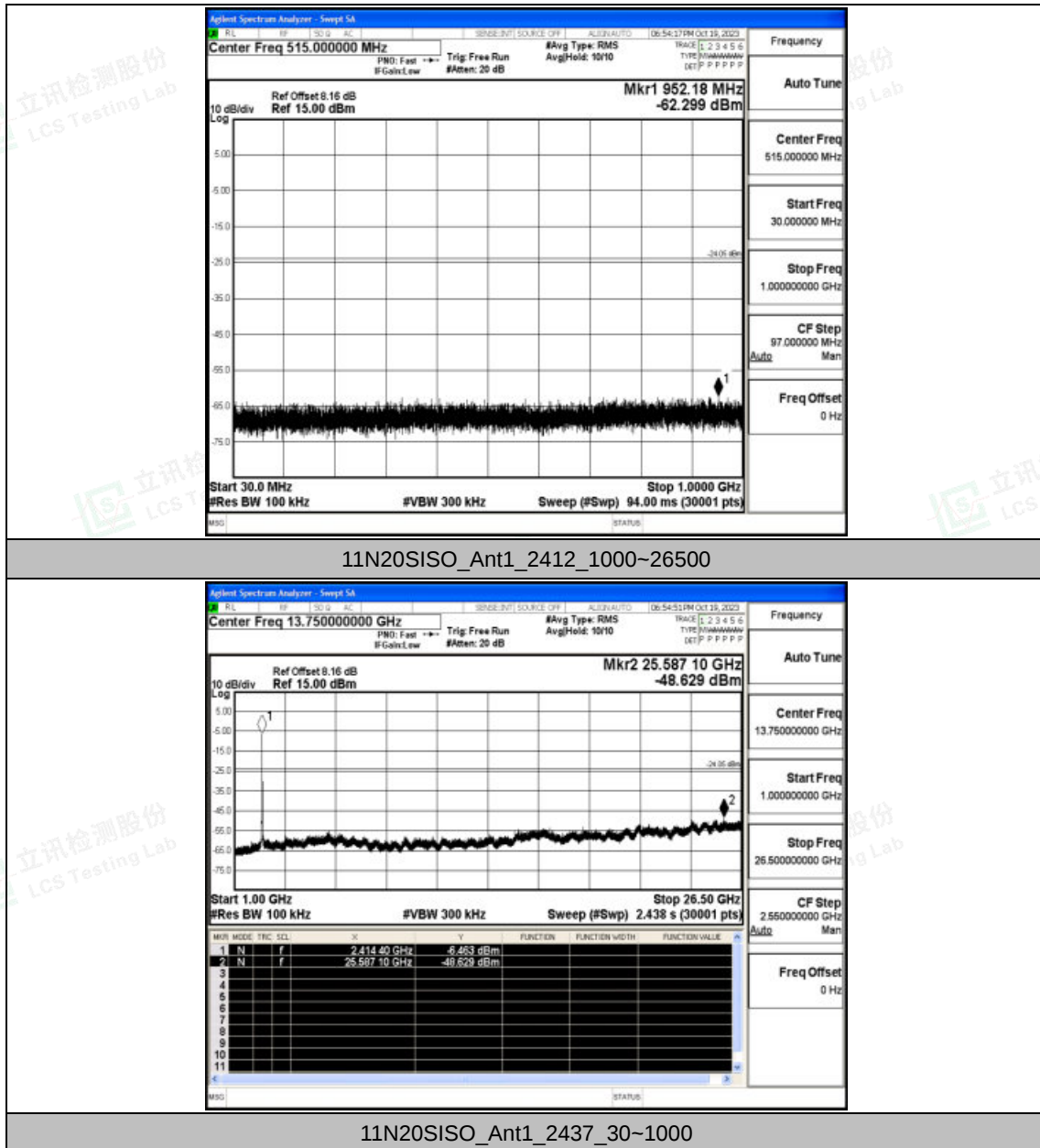


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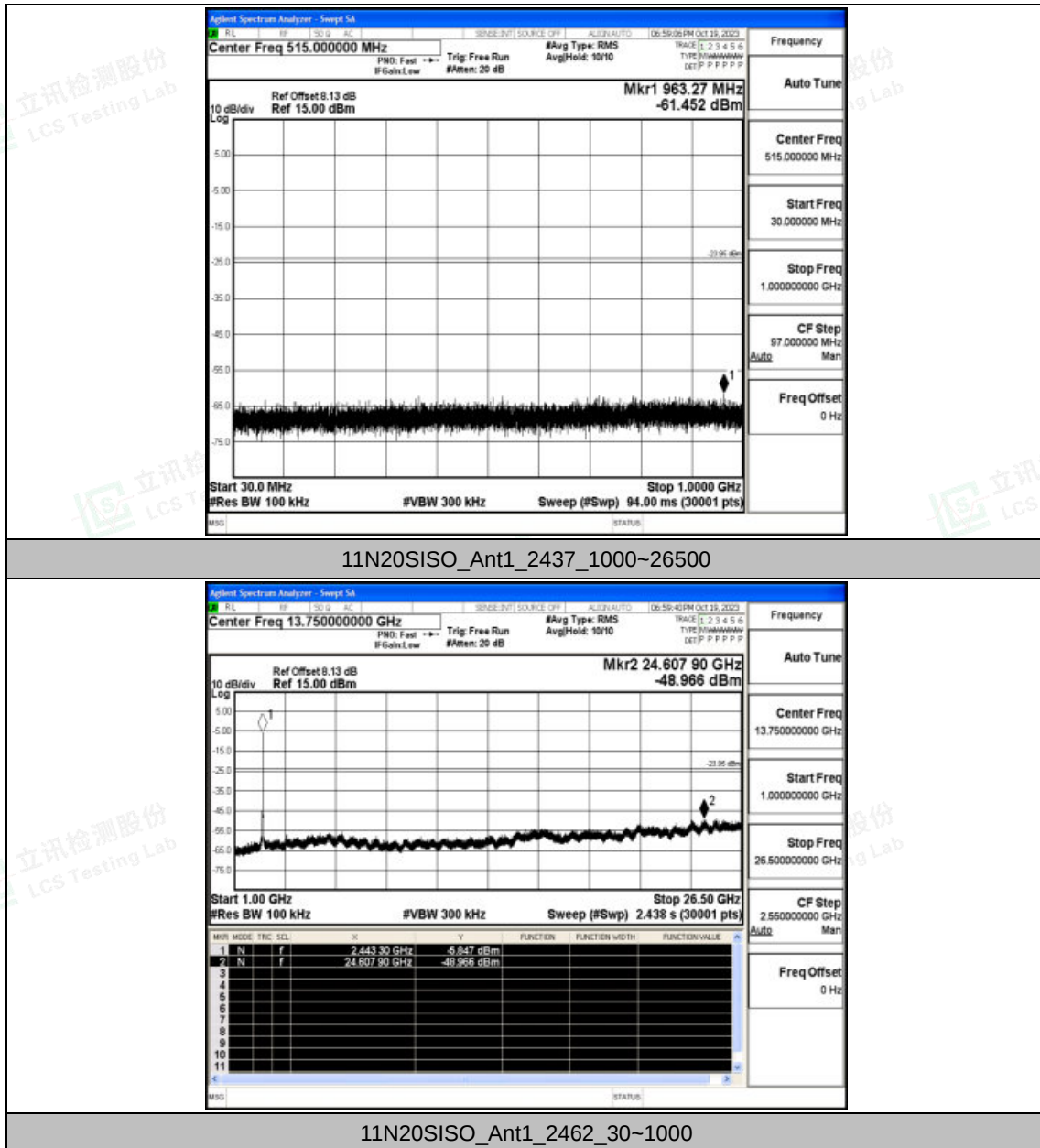


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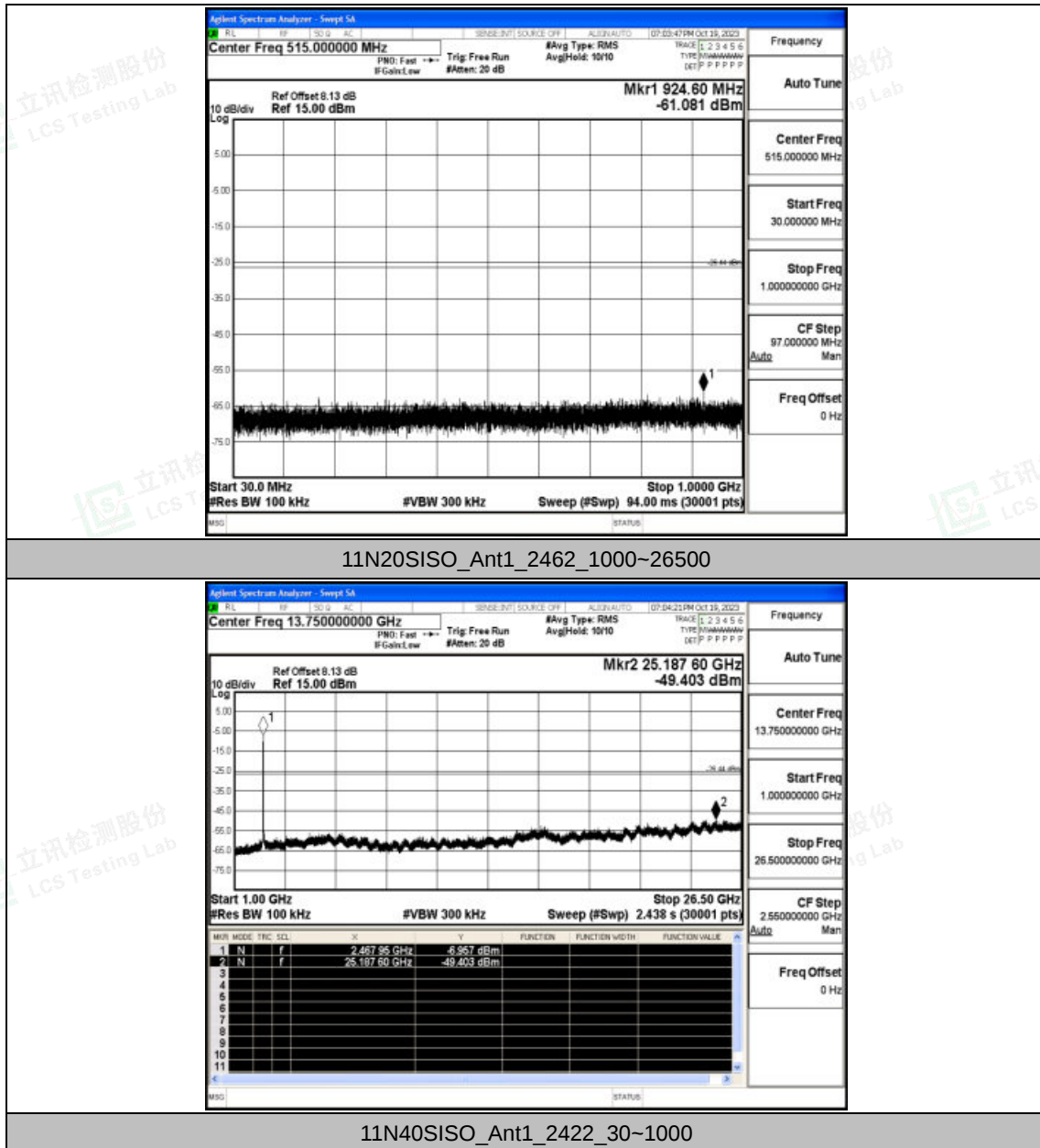


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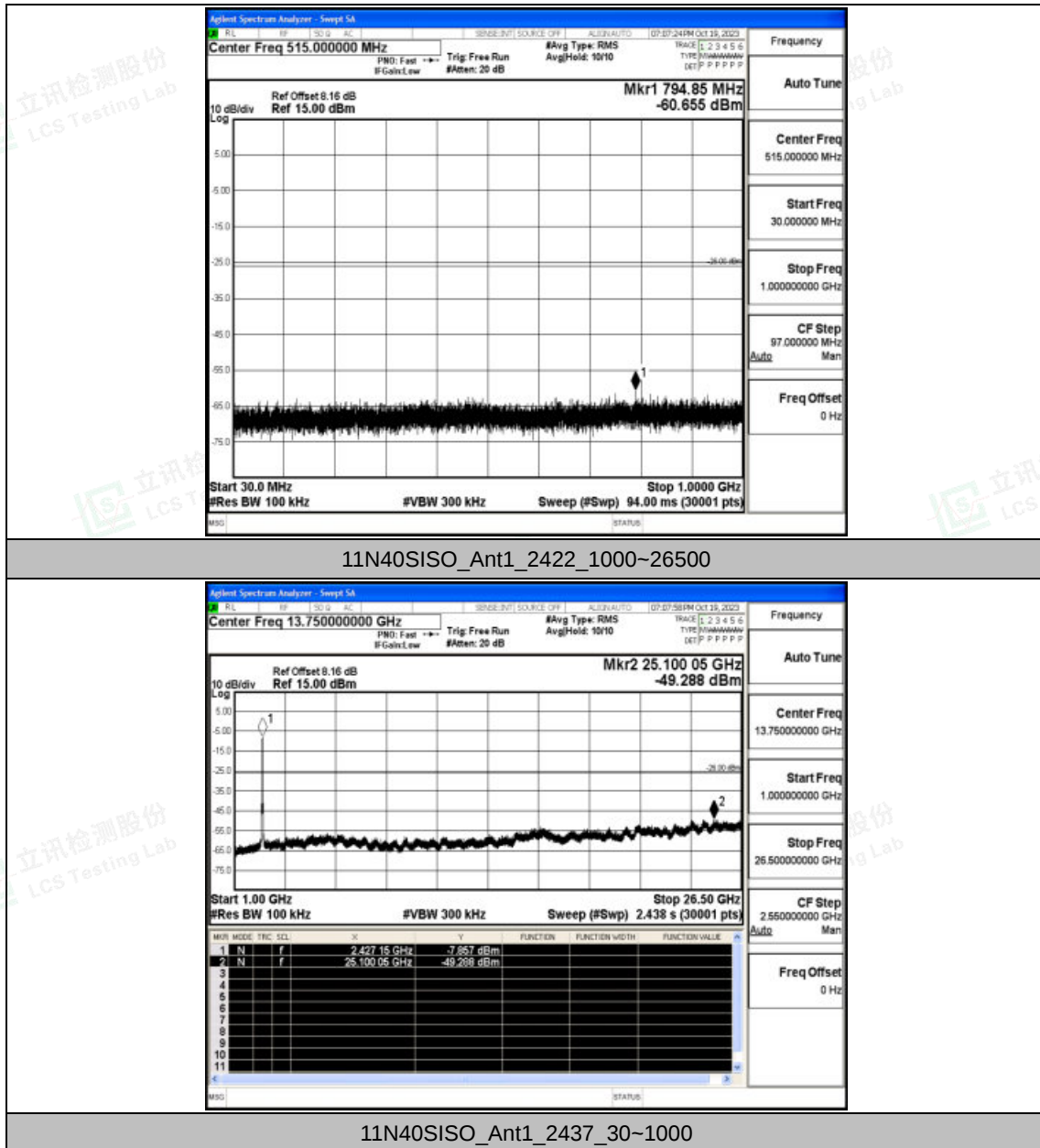


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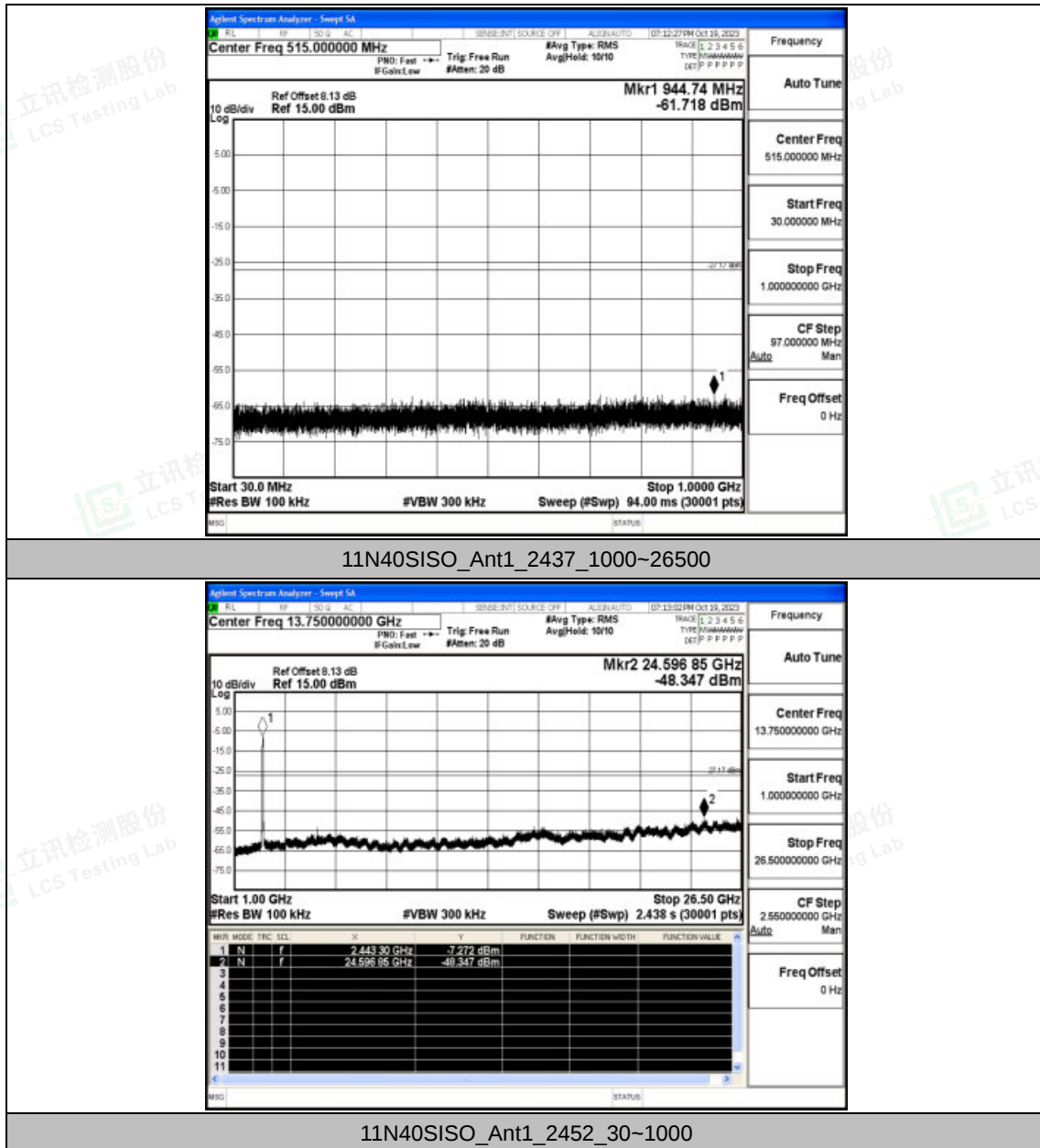


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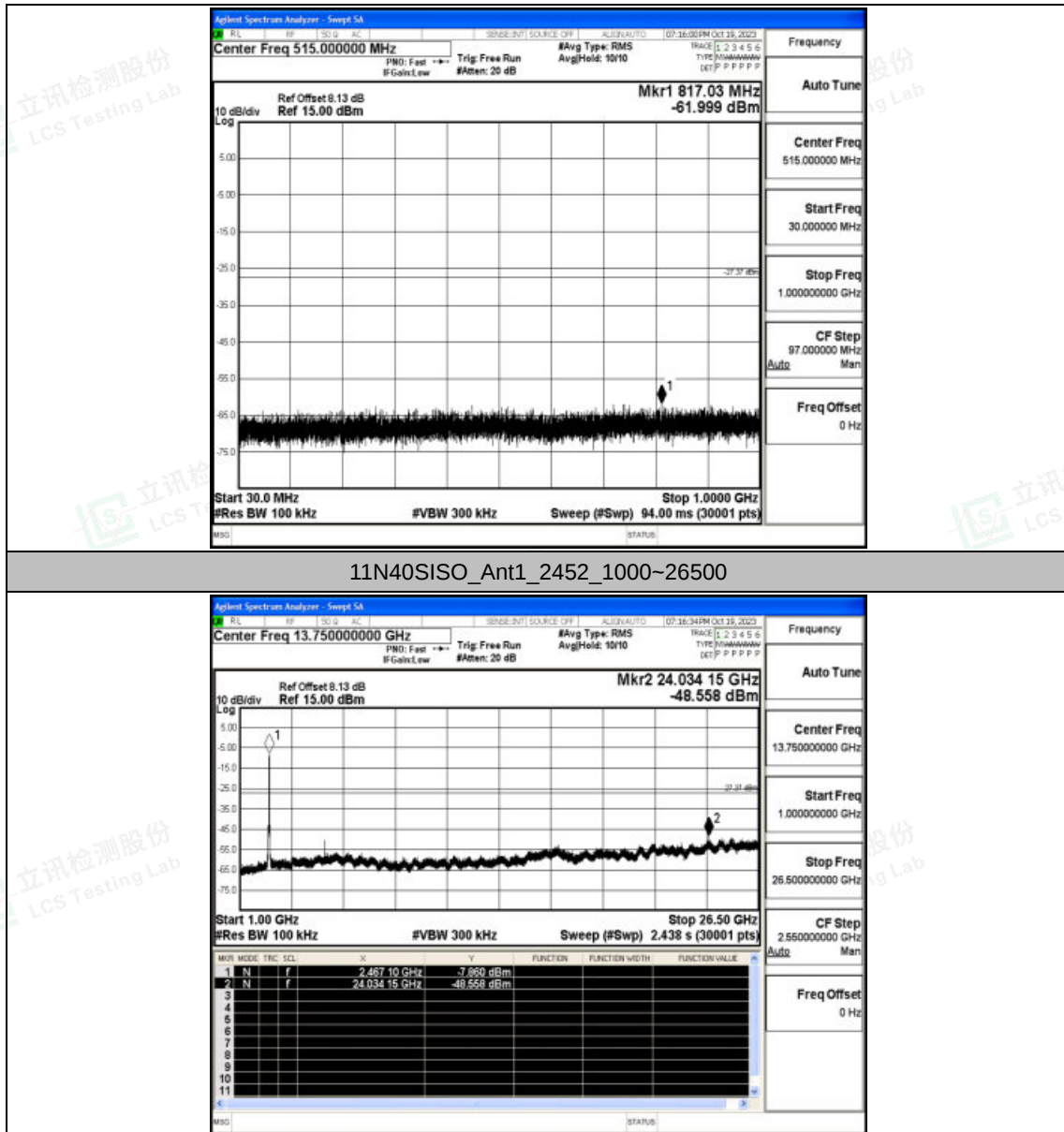


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B.6 Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	Verdict
11B	Ant1	2412	8.39	8.42	99.64	0.02	PASS
		2437	8.38	8.41	99.64	0.02	PASS
		2462	8.38	8.41	99.64	0.02	PASS
11G	Ant1	2412	1.39	1.43	97.20	0.12	PASS
		2437	1.39	1.43	97.20	0.12	PASS
		2462	1.39	1.43	97.20	0.12	PASS
11N20SISO	Ant1	2412	1.30	1.33	97.74	0.10	PASS
		2437	1.30	1.33	97.74	0.10	PASS
		2462	1.30	1.34	97.01	0.13	PASS
11N40SISO	Ant1	2422	0.64	0.68	94.12	0.26	PASS
		2437	0.64	0.68	94.12	0.26	PASS
		2452	0.65	0.68	95.59	0.20	PASS



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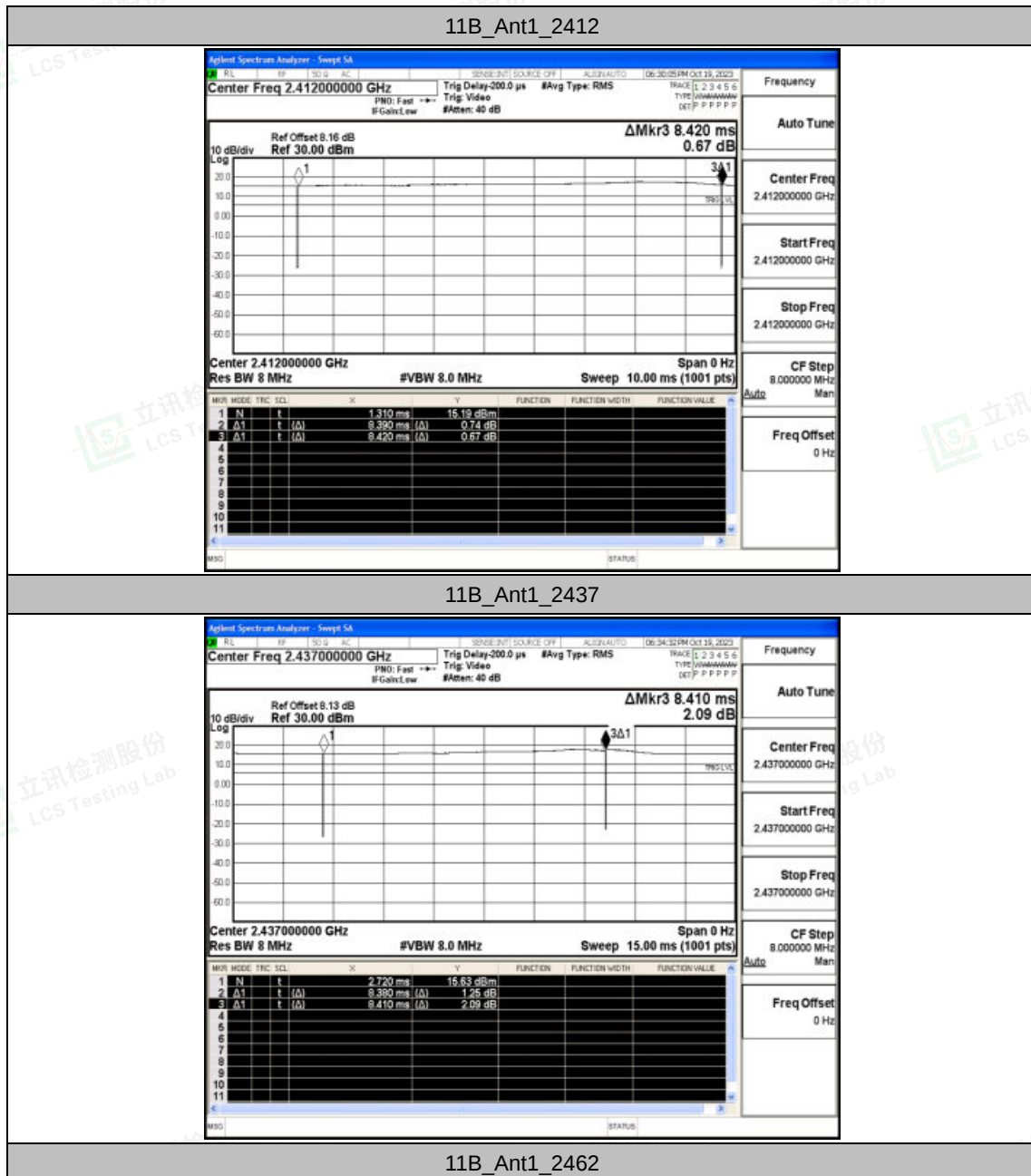
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Test Graphs

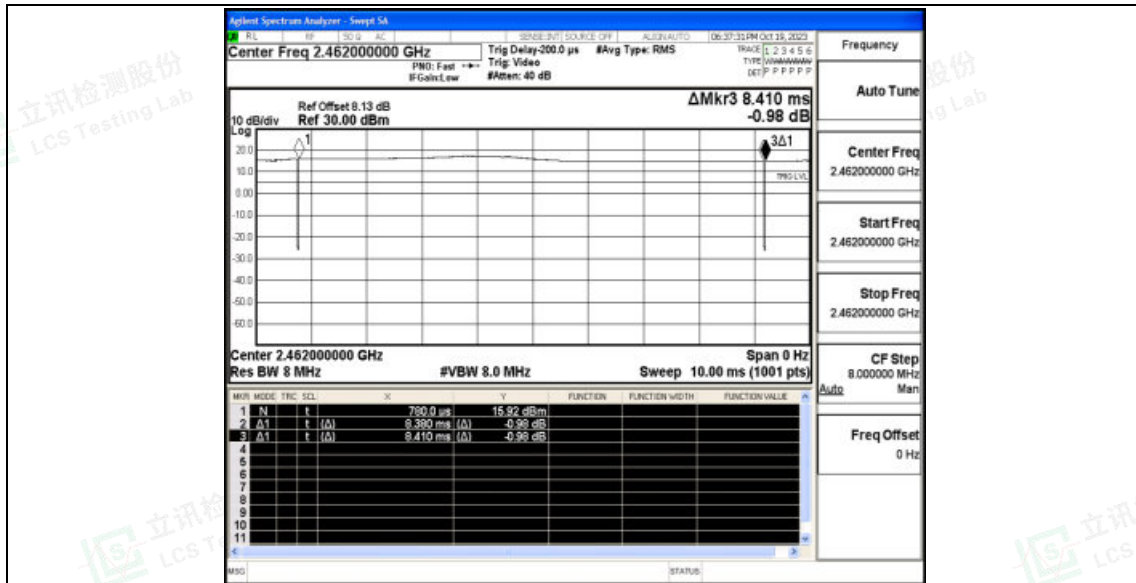


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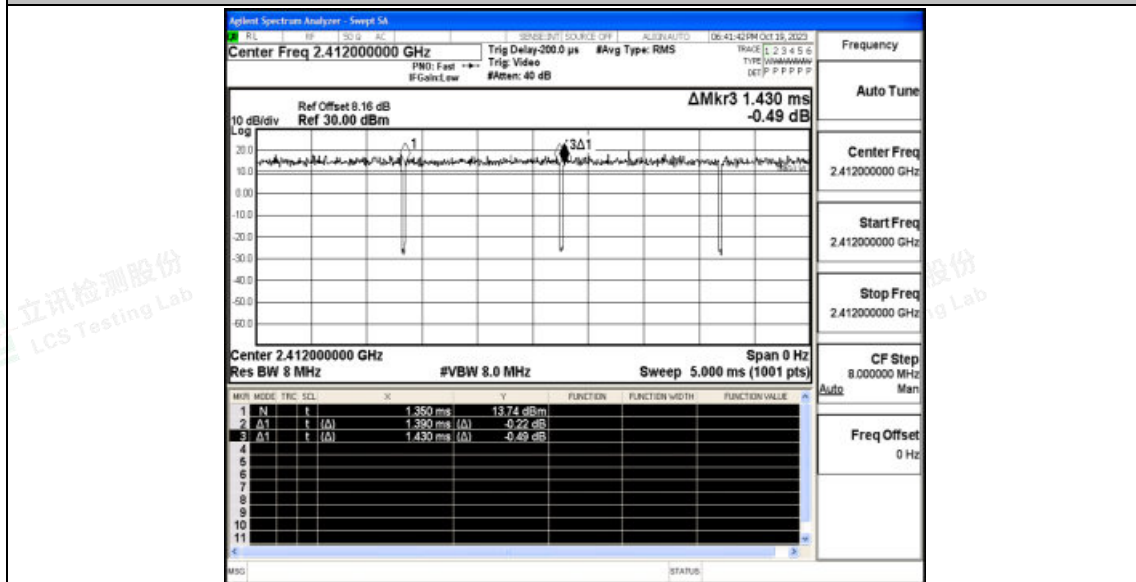
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11G_Ant1_2412



11G_Ant1_2437

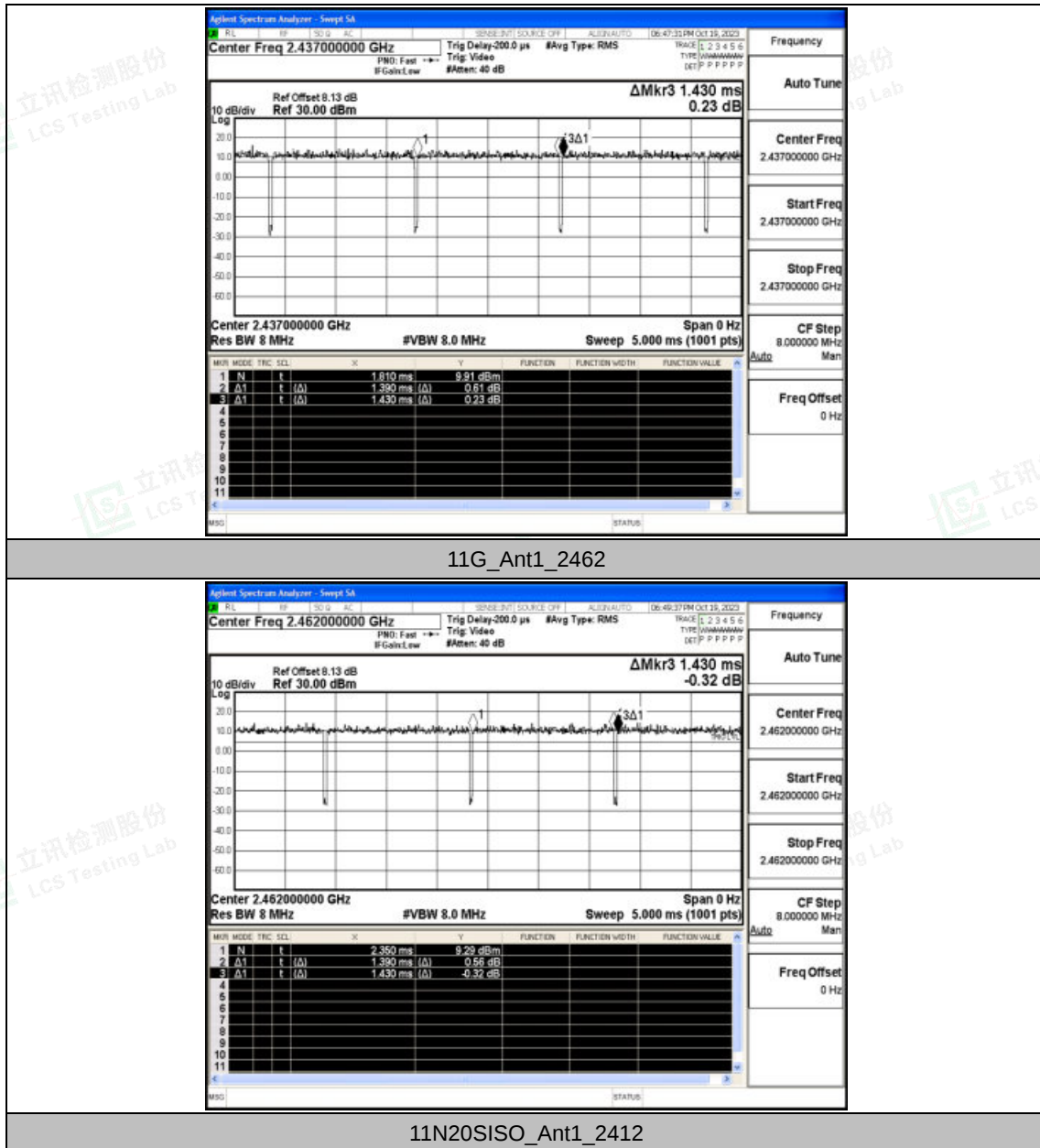


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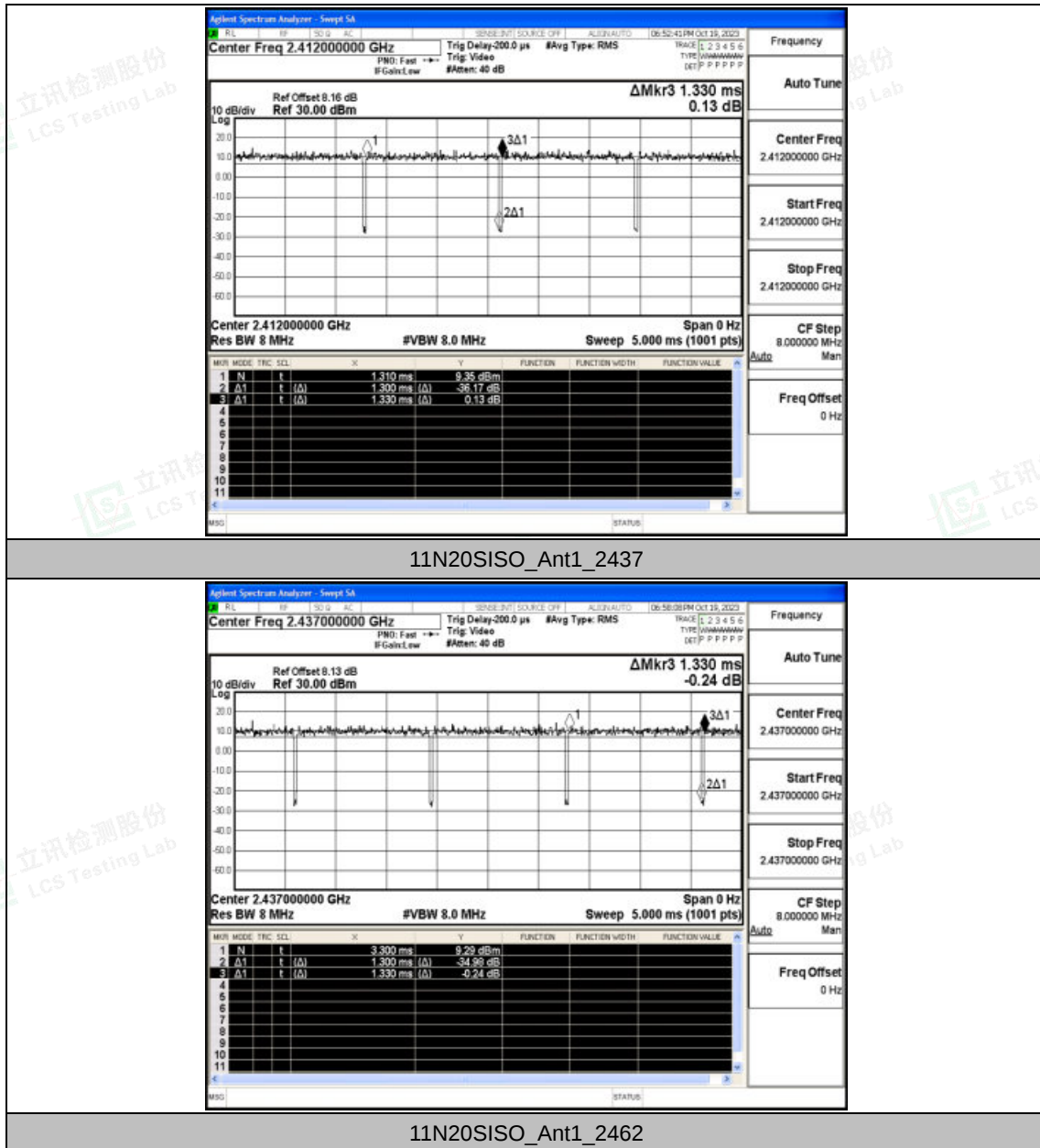


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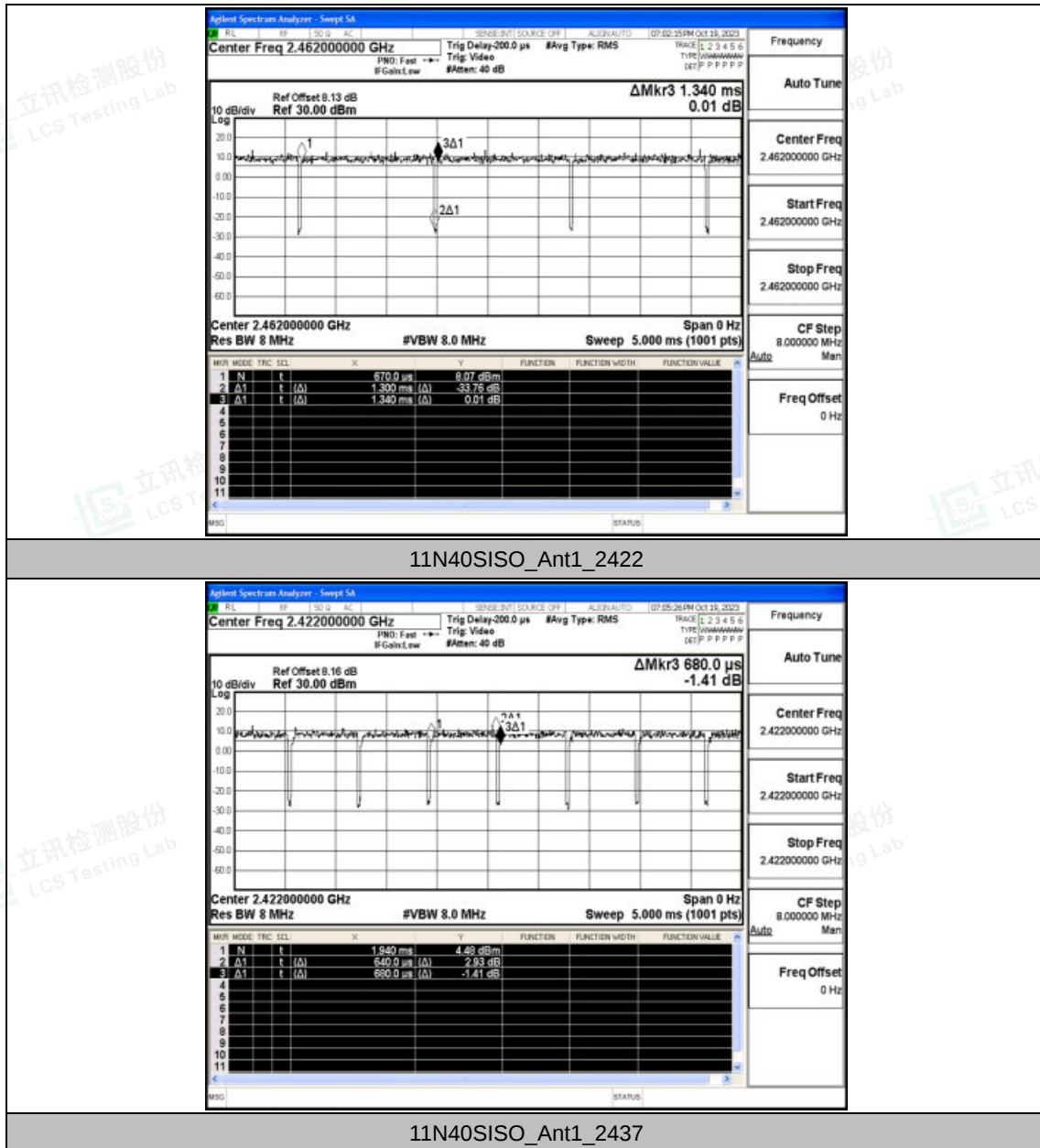


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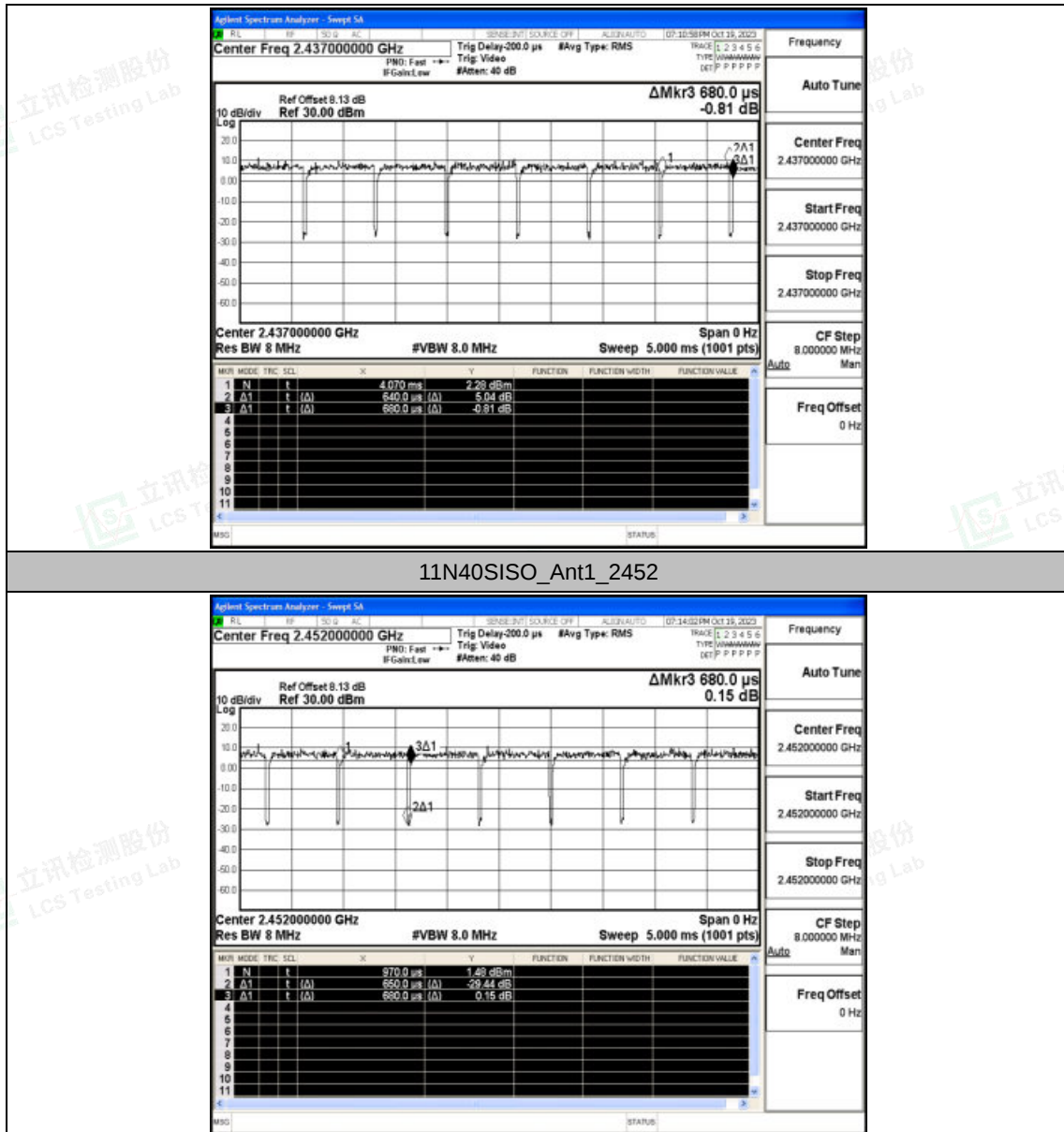


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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.46	≤-41.20	45.74	≤54	PASS
				AV	2389.960	-48.06	≤-41.20	47.14	≤54	PASS
				AV	2390.000	-48.06	≤-41.20	47.14	≤54	PASS
				Peak	2310.000	-41.81	≤-21.20	53.39	≤74	PASS
				Peak	2336.530	-39.61	≤-21.20	55.59	≤74	PASS
				Peak	2390.000	-41.42	≤-21.20	53.78	≤74	PASS
		High	2462	AV	2483.500	-47.47	≤-41.20	47.73	≤54	PASS
				AV	2483.560	-47.51	≤-41.20	47.69	≤54	PASS
				AV	2500.000	-48.82	≤-41.20	46.38	≤54	PASS
				Peak	2483.500	-41.19	≤-21.20	54.01	≤74	PASS
				Peak	2483.670	-39.58	≤-21.20	55.62	≤74	PASS
				Peak	2500.000	-42.54	≤-21.20	52.66	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.77	≤-41.20	46.43	≤54	PASS
				AV	2389.960	-42.69	≤-41.20	52.51	≤54	PASS
				AV	2390.000	-42.69	≤-41.20	52.51	≤54	PASS
				Peak	2310.000	-43.18	≤-21.20	52.02	≤74	PASS
				Peak	2388.920	-32.57	≤-21.20	62.63	≤74	PASS
				Peak	2390.000	-36.38	≤-21.20	58.82	≤74	PASS
		High	2462	AV	2483.500	-44.04	≤-41.20	51.16	≤54	PASS
				AV	2483.560	-44.02	≤-41.20	51.18	≤54	PASS
				AV	2500.000	-47.71	≤-41.20	47.49	≤54	PASS
				Peak	2483.500	-38.08	≤-21.20	57.12	≤74	PASS
				Peak	2485.650	-33.04	≤-21.20	62.16	≤74	PASS
				Peak	2500.000	-40.21	≤-21.20	54.99	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-48.75	≤-41.20	46.45	≤54	PASS
				AV	2389.830	-45.33	≤-41.20	49.87	≤54	PASS
				AV	2390.000	-45.44	≤-41.20	49.76	≤54	PASS
				Peak	2310.000	-42.34	≤-21.20	52.86	≤74	PASS
				Peak	2388.400	-36.43	≤-21.20	58.77	≤74	PASS
				Peak	2390.000	-36.79	≤-21.20	58.41	≤74	PASS
		High	2462	AV	2483.500	-45.92	≤-41.20	49.28	≤54	PASS
				AV	2483.560	-46.04	≤-41.20	49.16	≤54	PASS
				AV	2500.000	-48	≤-41.20	47.20	≤54	PASS
				Peak	2483.500	-39.84	≤-21.20	55.36	≤74	PASS



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11N40SIS O	Ant1	Low	2422	Peak	2483.780	-37.52	≤-21.20	57.68	≤74	PASS
				Peak	2500.000	-41.56	≤-21.20	53.64	≤74	PASS
				AV	2310.000	-48.78	≤-41.20	46.42	≤54	PASS
				AV	2389.440	-42.72	≤-41.20	52.48	≤54	PASS
				AV	2390.000	-43.23	≤-41.20	51.97	≤54	PASS
				Peak	2310.000	-41.88	≤-21.20	53.32	≤74	PASS
		High	2452	Peak	2388.010	-28.45	≤-21.20	66.75	≤74	PASS
				Peak	2390.000	-35.28	≤-21.20	59.92	≤74	PASS
				AV	2483.500	-42.67	≤-41.20	52.53	≤54	PASS
				AV	2484.330	-42.28	≤-41.20	52.92	≤54	PASS
				AV	2500.000	-46.96	≤-41.20	48.24	≤54	PASS
				Peak	2483.500	-37.97	≤-21.20	57.23	≤74	PASS
				Peak	2486.640	-26.67	≤-21.20	68.53	≤74	PASS
				Peak	2500.000	-37.8	≤-21.20	57.40	≤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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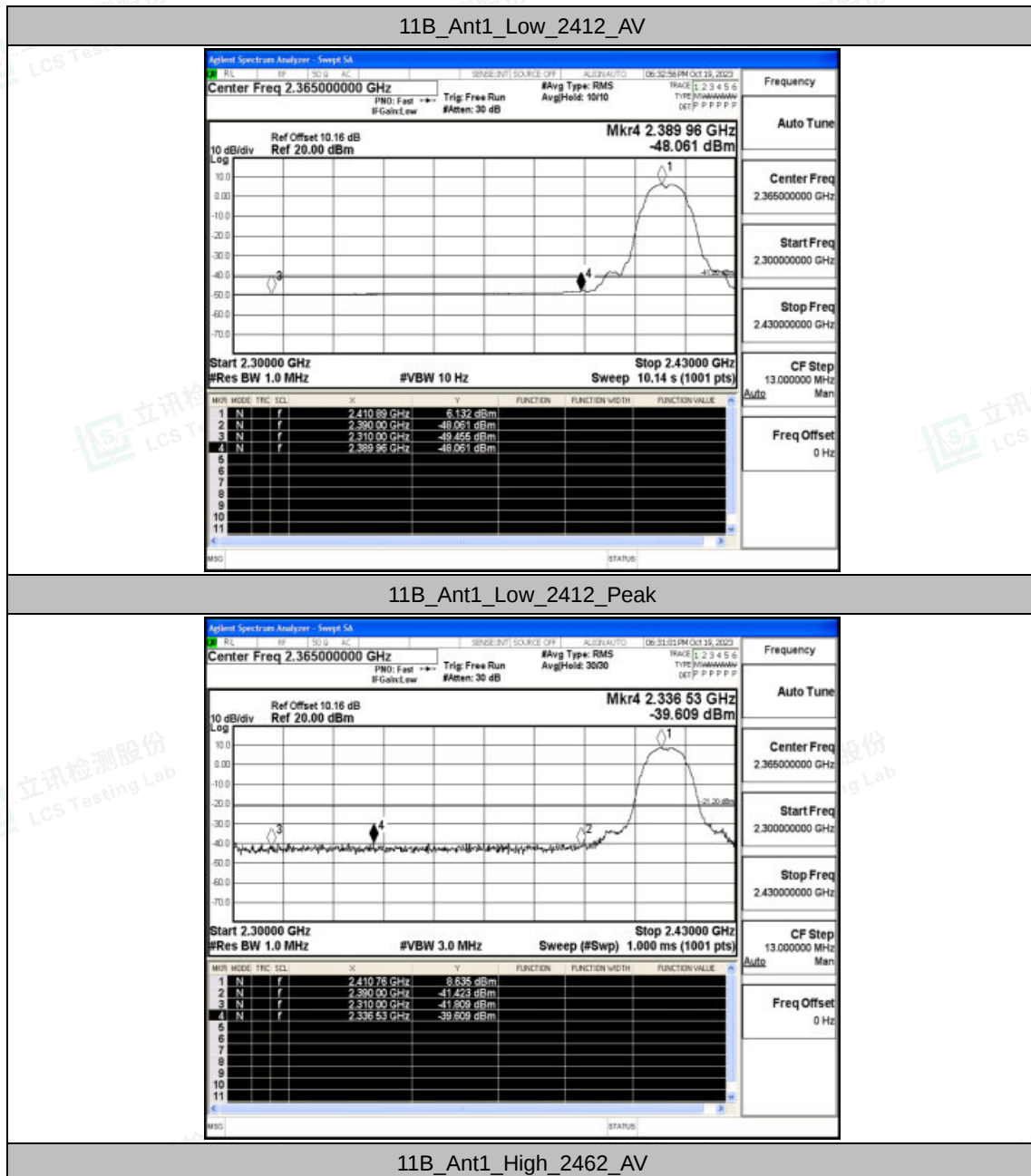
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Test Graphs

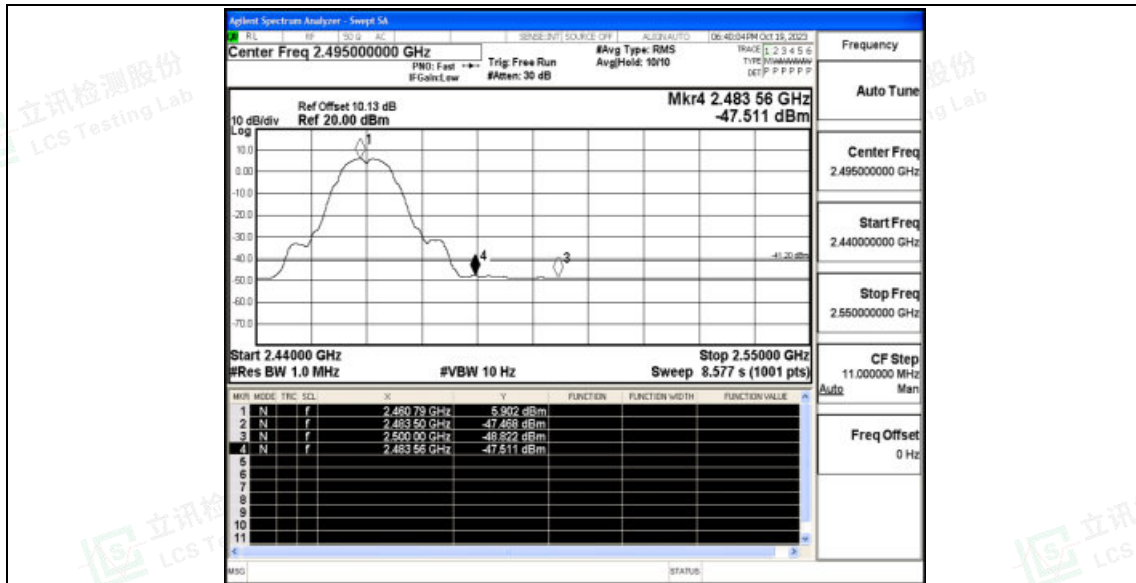


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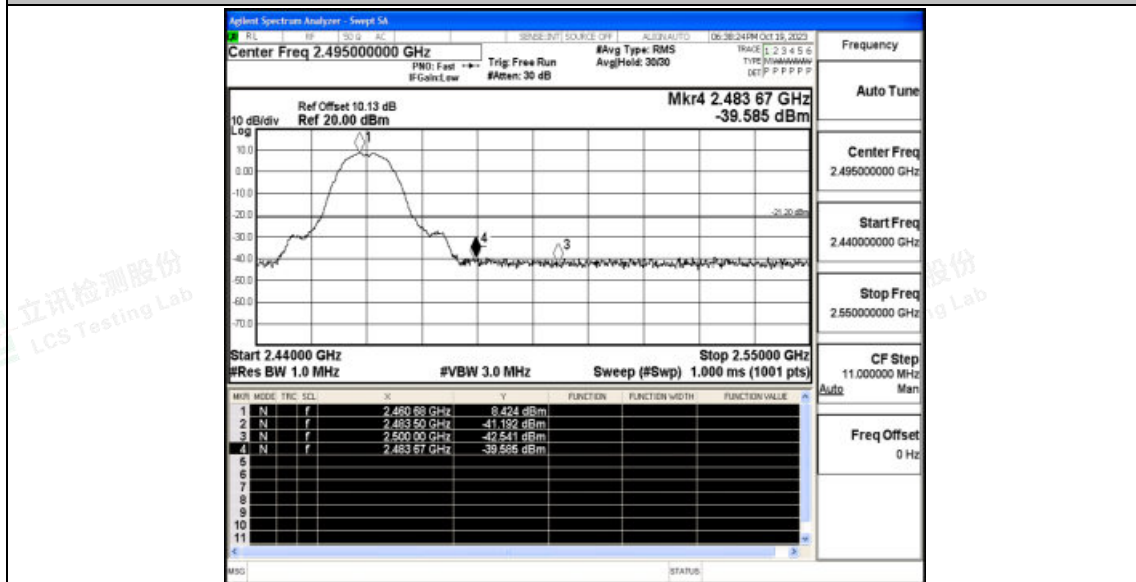
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11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV

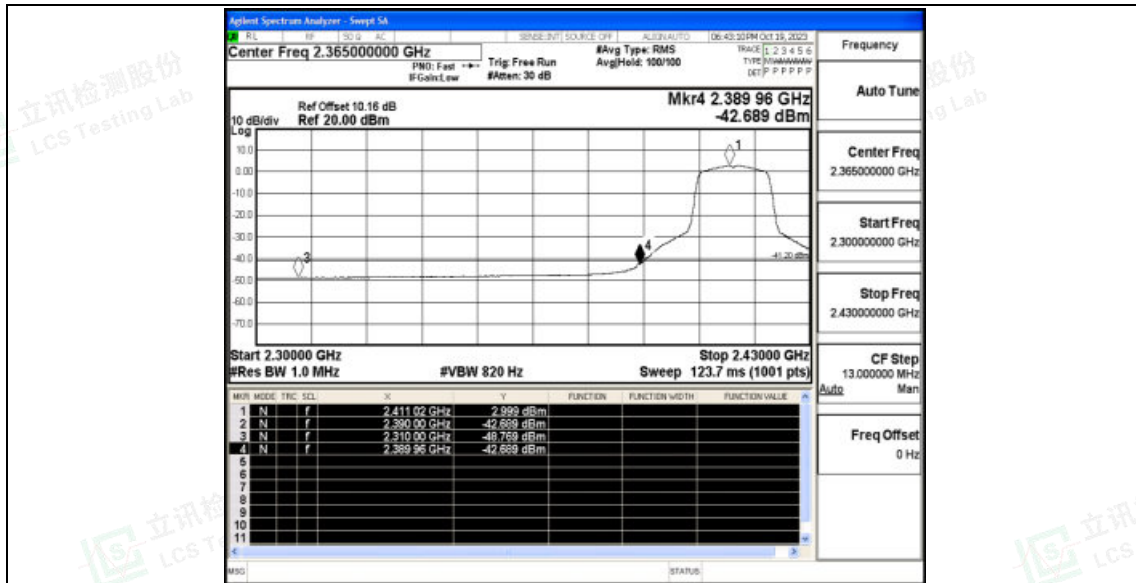


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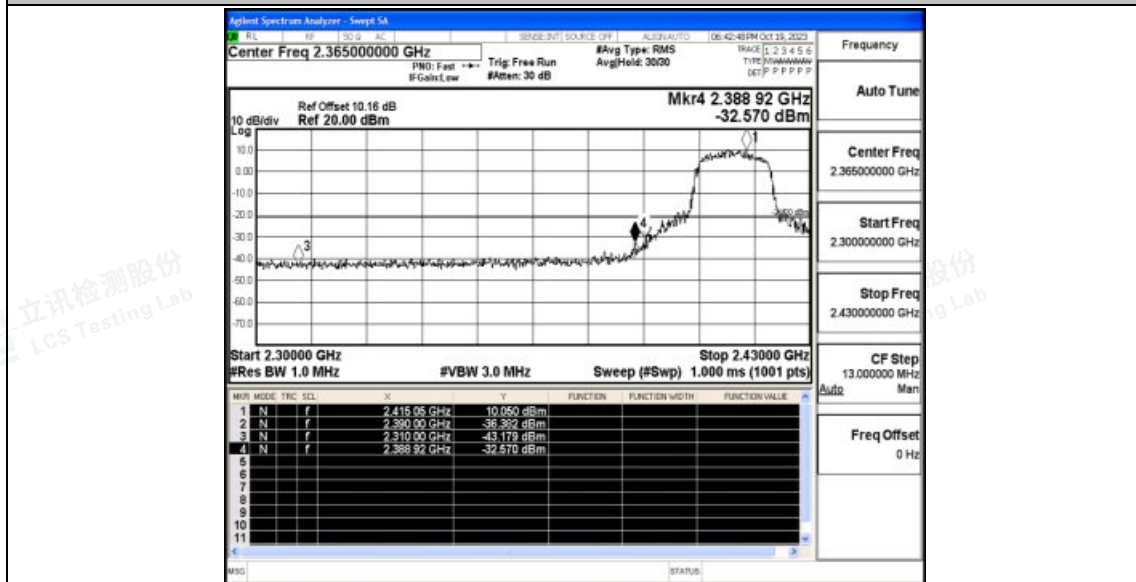
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11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV

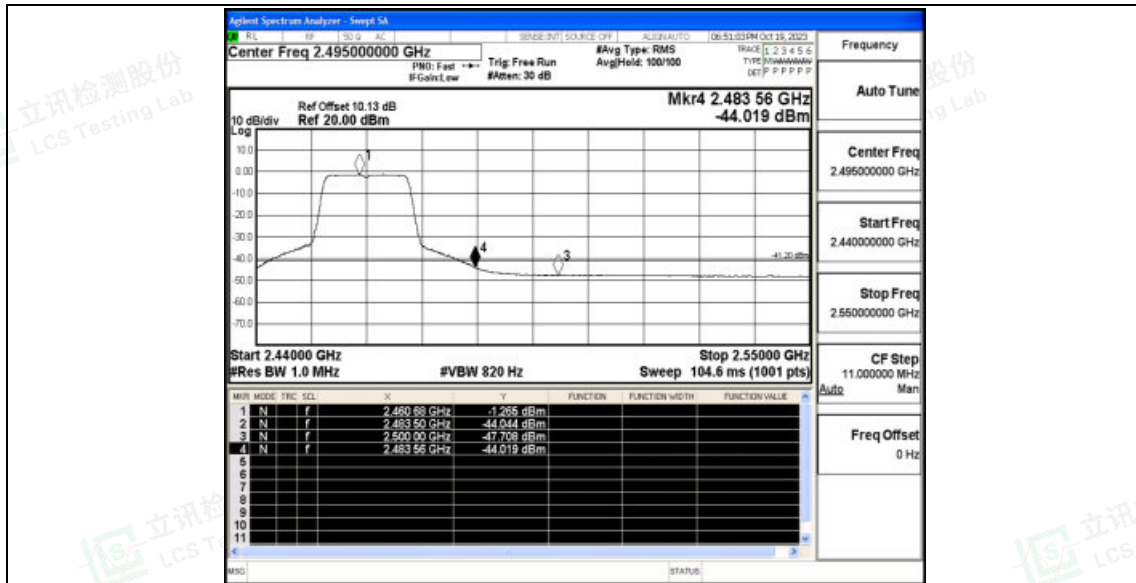


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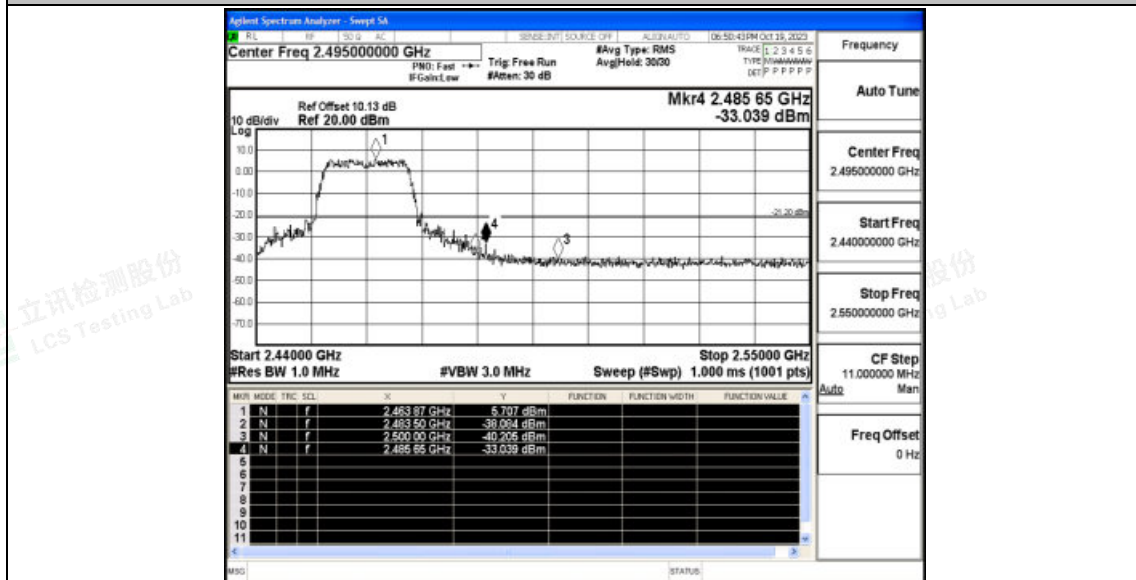
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11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

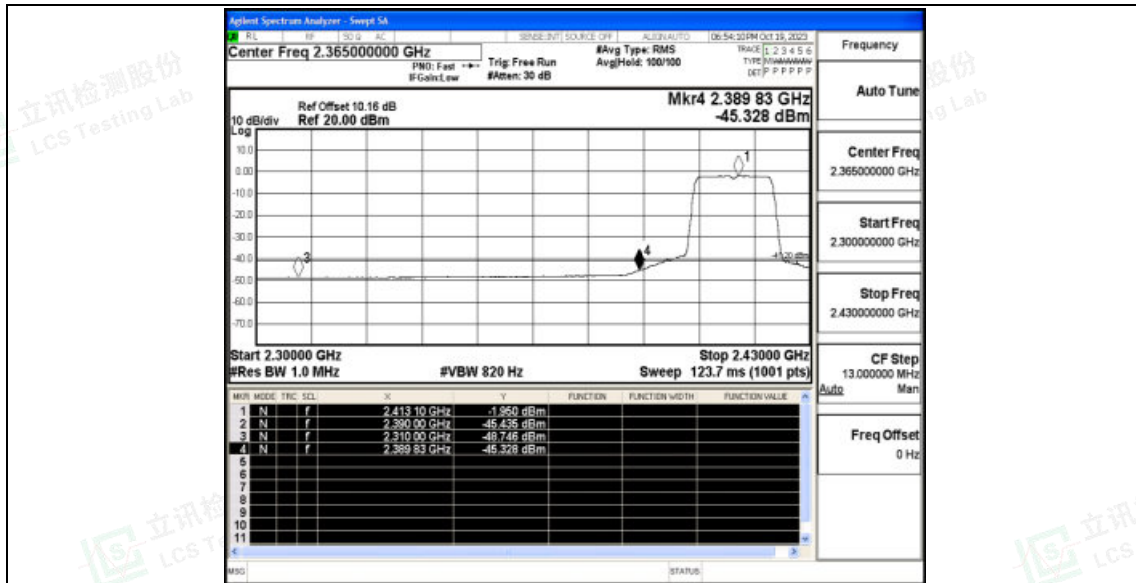


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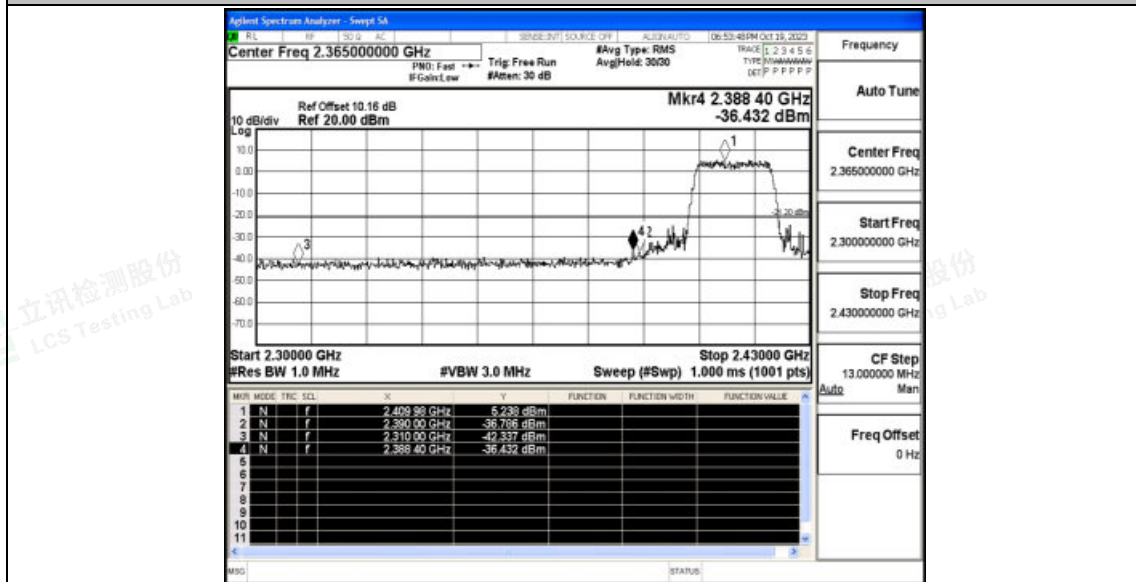
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11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV

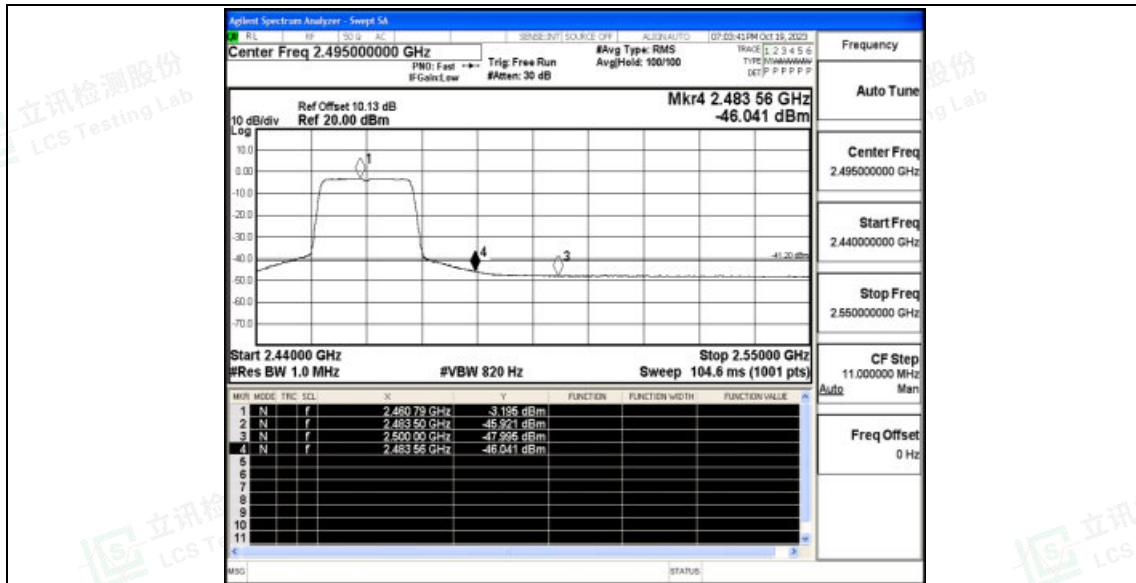


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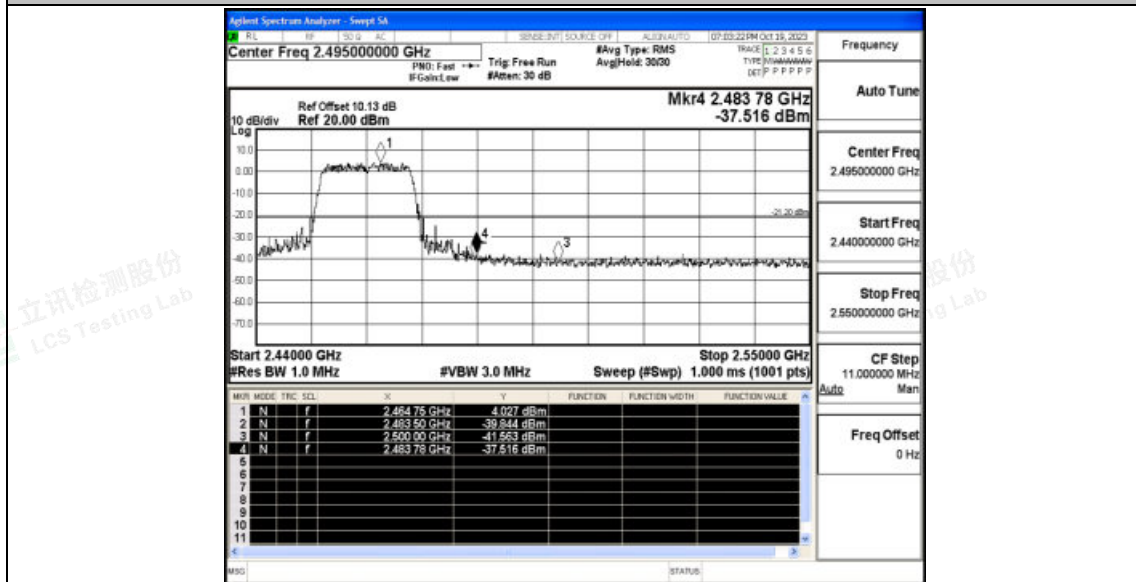
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11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV

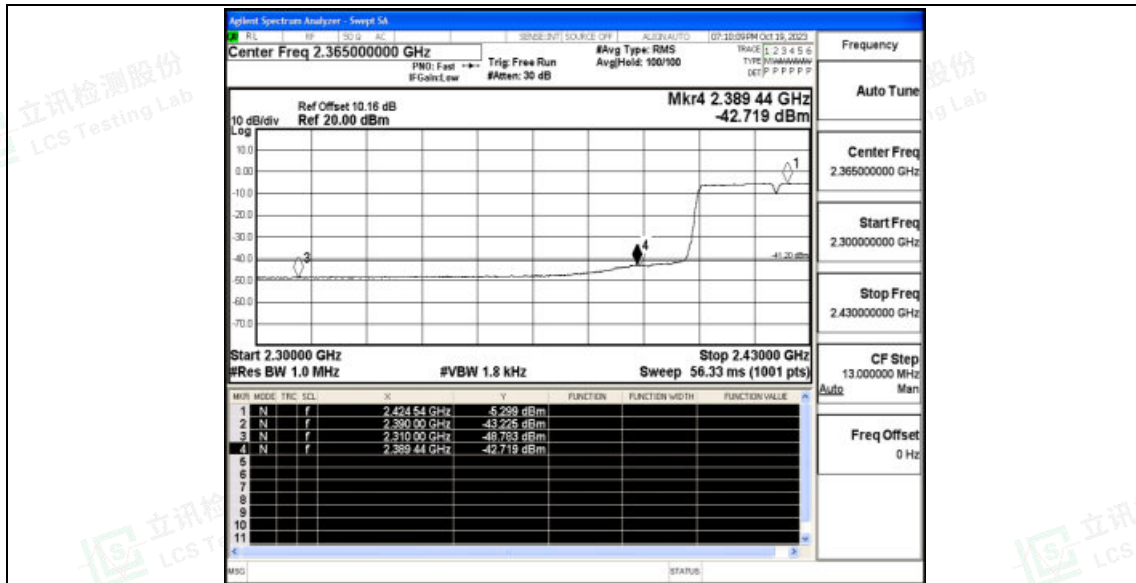


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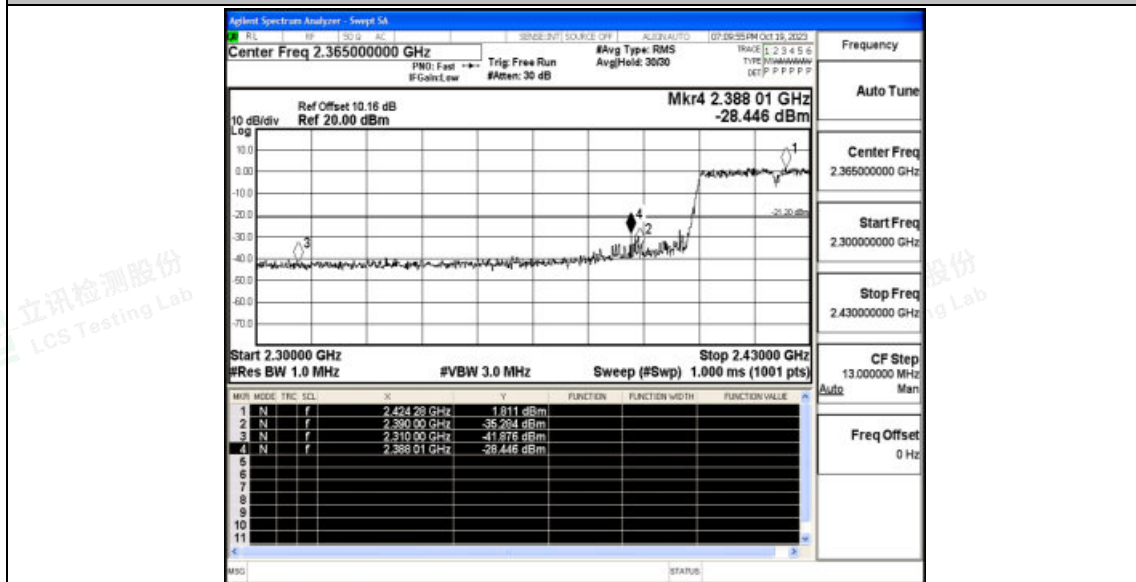
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11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

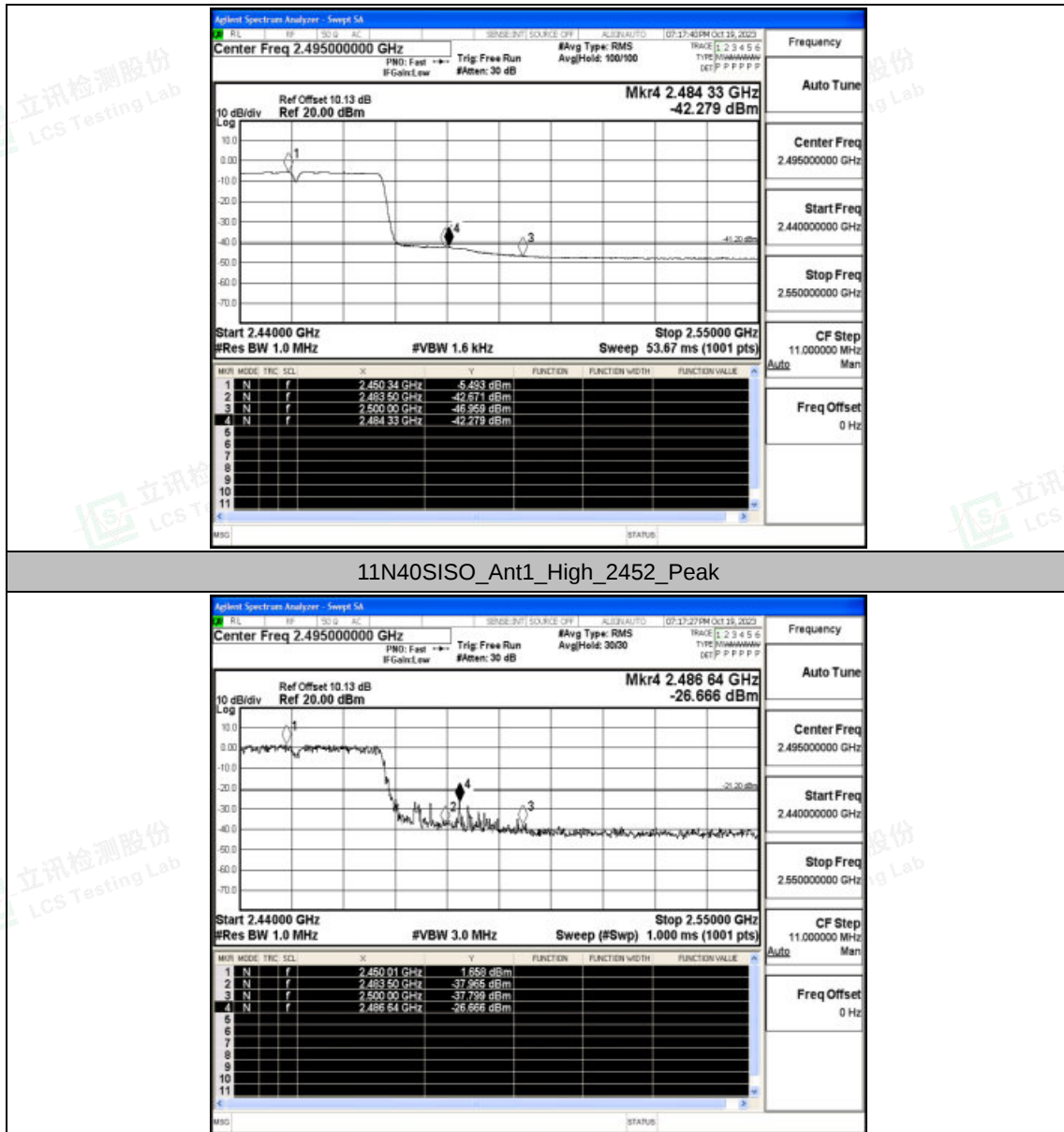


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