



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: LED smart floodlight

Test Model: 3-LBW55M

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Ling Zhu



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.480	2416.560	0.5	PASS
		2437	9.600	2431.960	2441.560	0.5	PASS
		2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS



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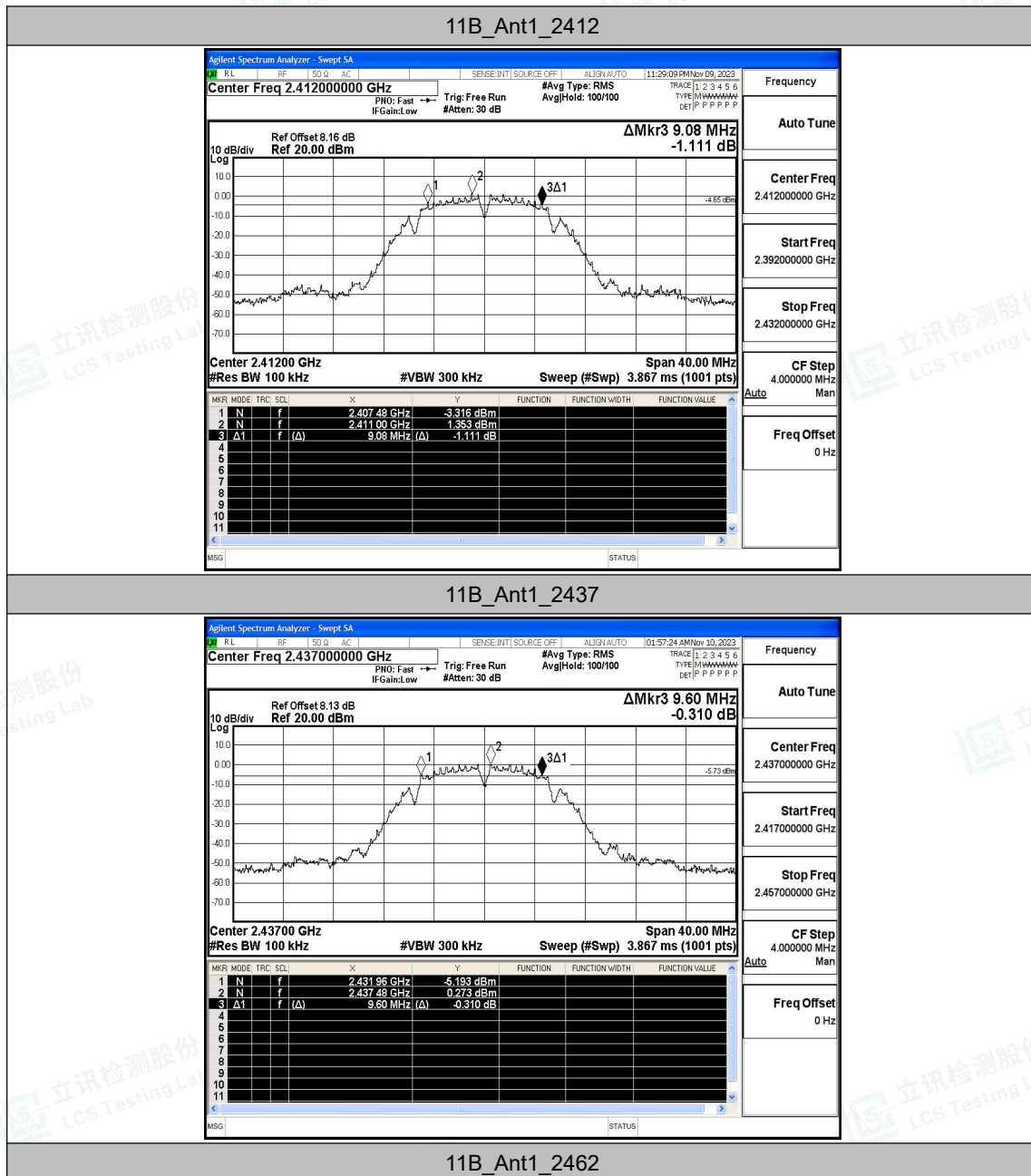
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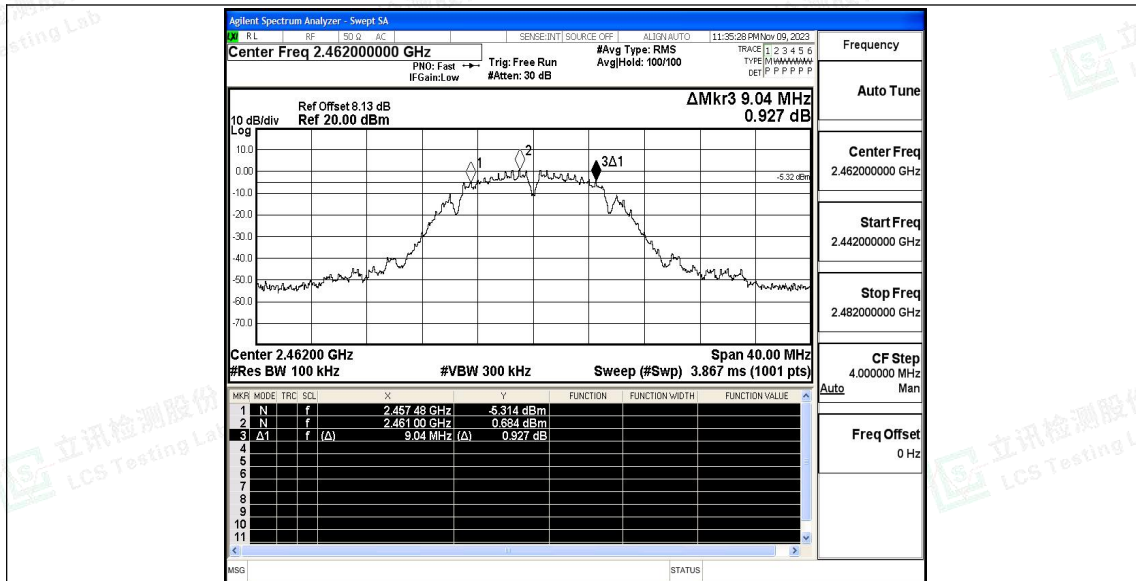
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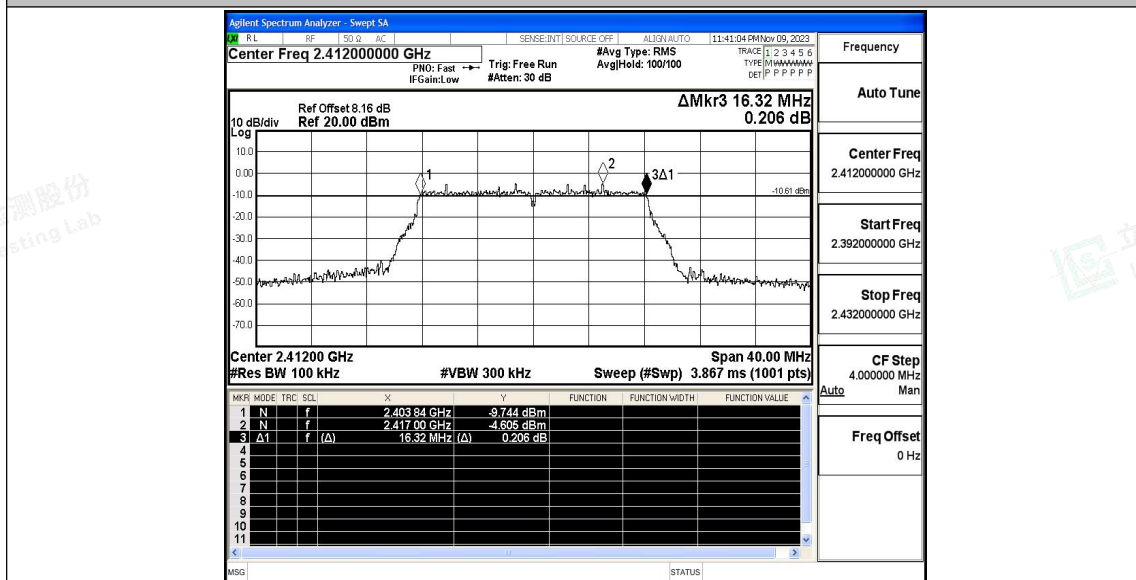
Test Graphs



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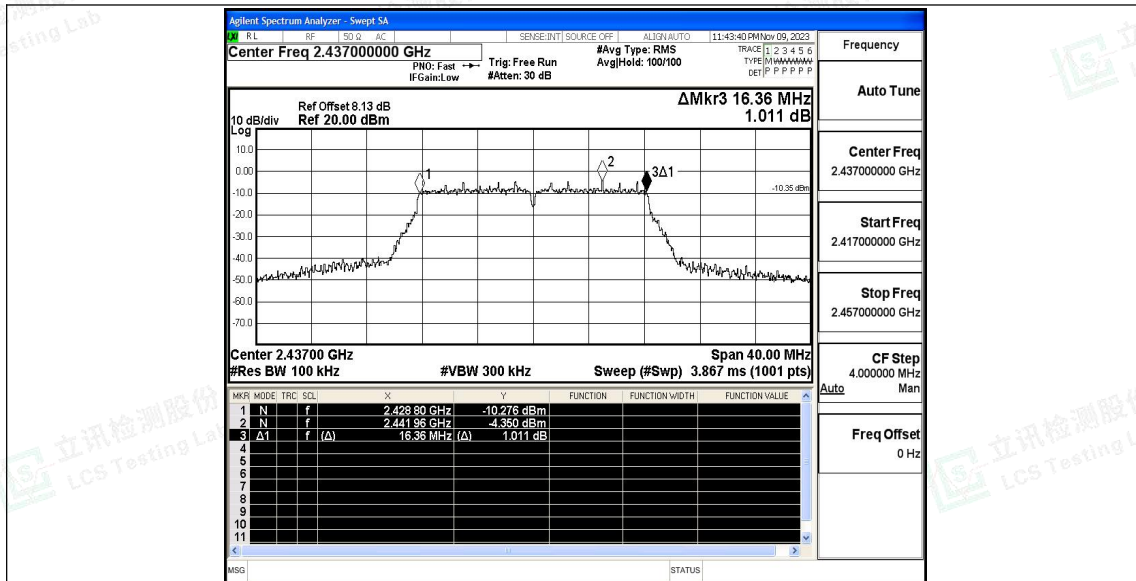


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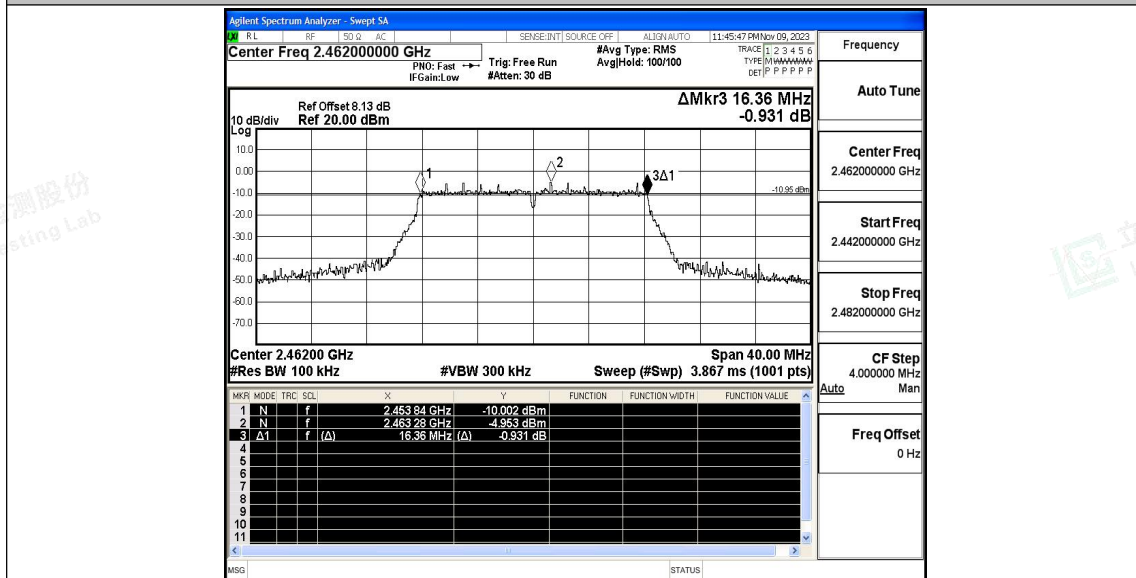


11G_Ant1_2437



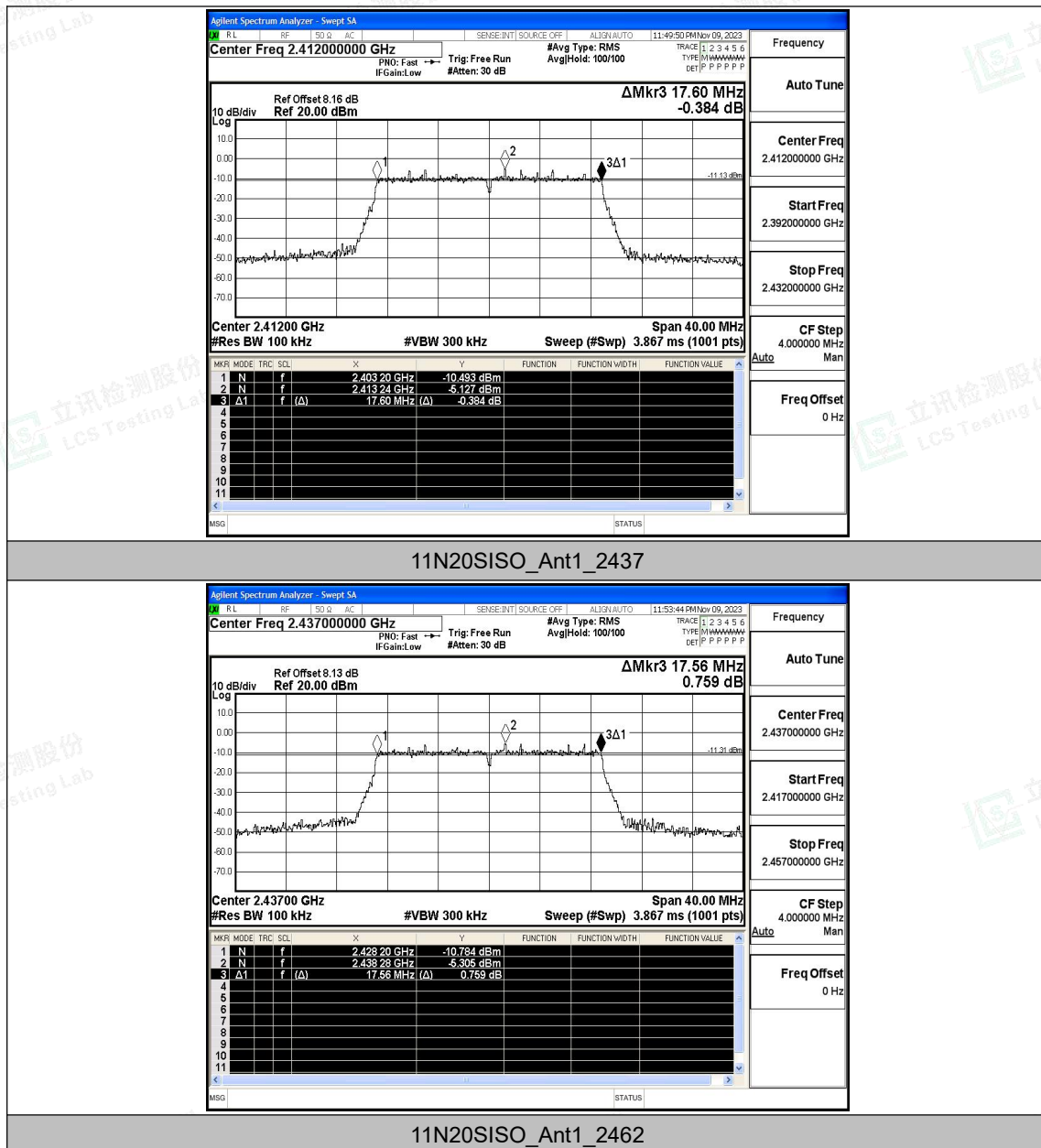


11G_Ant1_2462

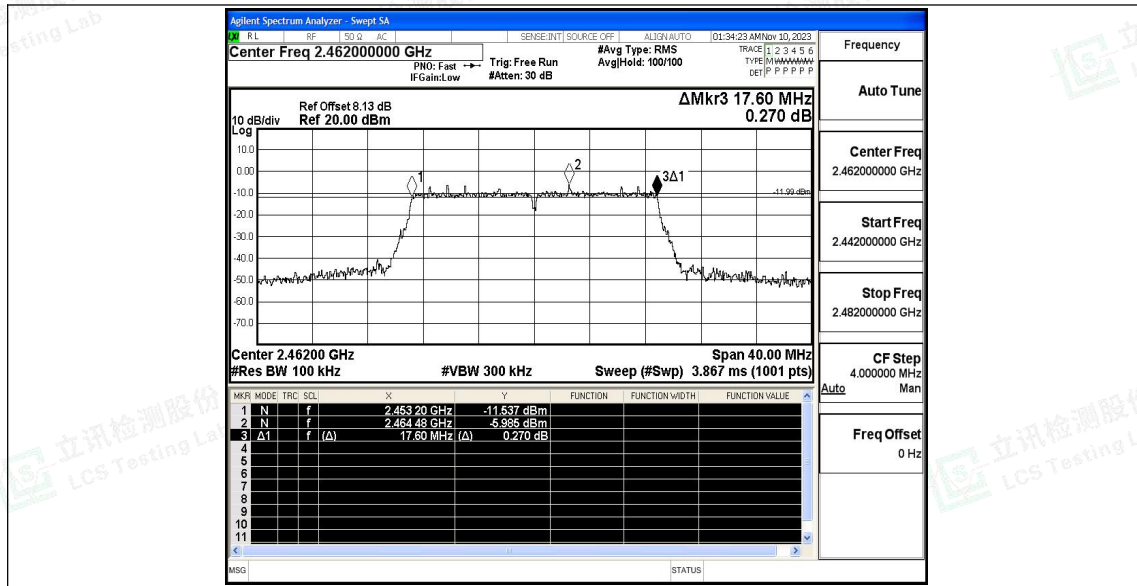


11N20SISO_Ant1_2412





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A.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	12.94	≤30.00	PASS
		2437	12.60	≤30.00	PASS
		2462	12.36	≤30.00	PASS
11G	Ant1	2412	13.18	≤30.00	PASS
		2437	13.31	≤30.00	PASS
		2462	12.45	≤30.00	PASS
11N20SISO	Ant1	2412	12.37	≤30.00	PASS
		2437	12.48	≤30.00	PASS
		2462	12.14	≤30.00	PASS



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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.36	≤8.00	PASS
		2437	-5.99	≤8.00	PASS
		2462	-10.38	≤8.00	PASS
11G	Ant1	2412	-17.98	≤8.00	PASS
		2437	-17.48	≤8.00	PASS
		2462	-18.85	≤8.00	PASS
11N20SISO	Ant1	2412	-18.58	≤8.00	PASS
		2437	-17.21	≤8.00	PASS
		2462	-19.69	≤8.00	PASS



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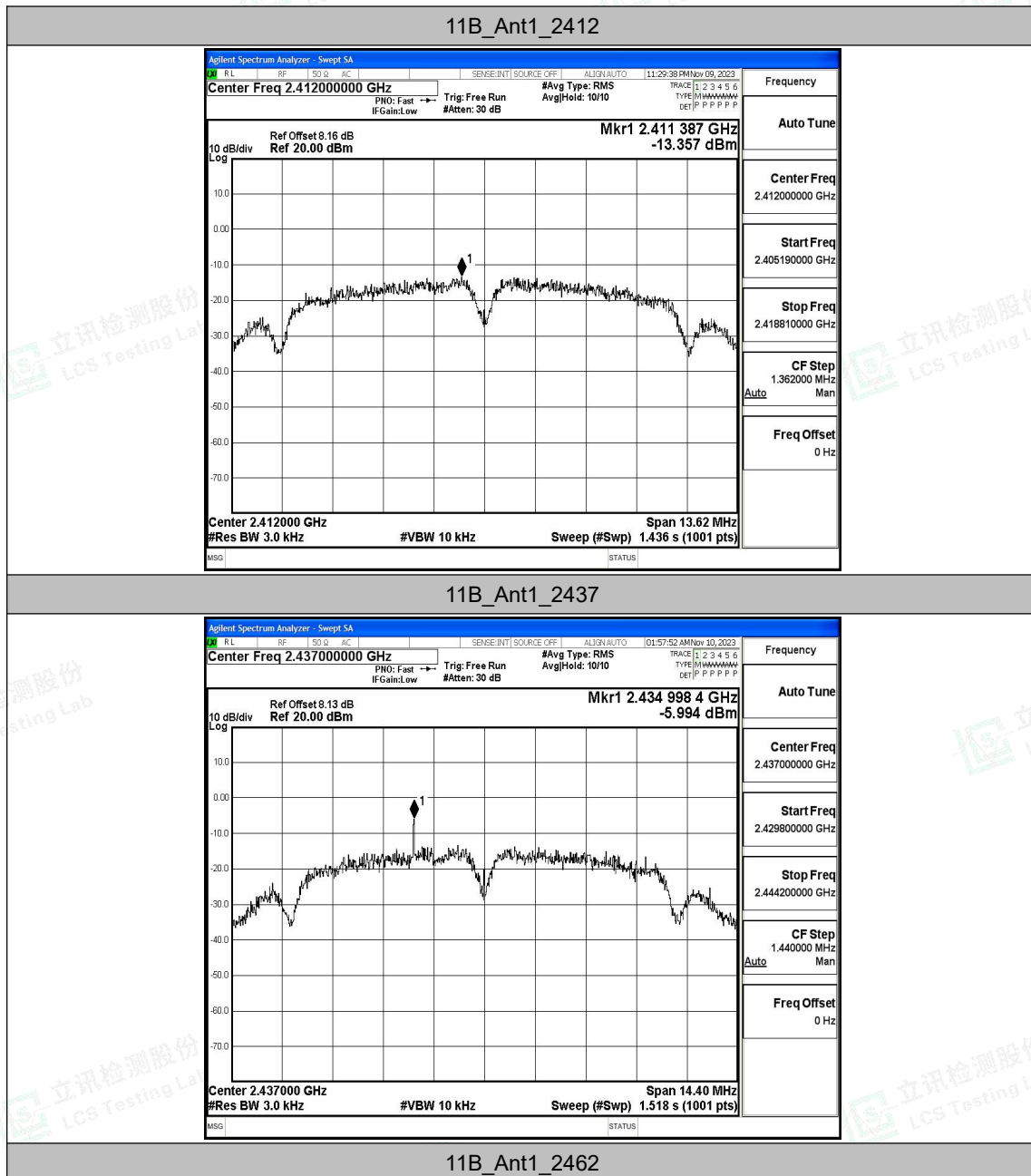
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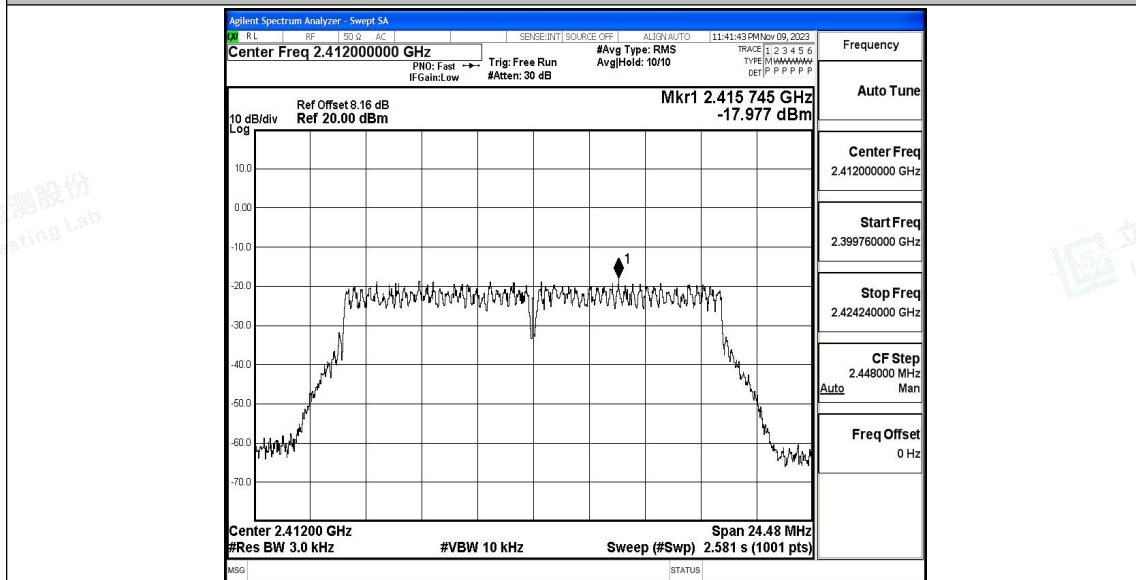
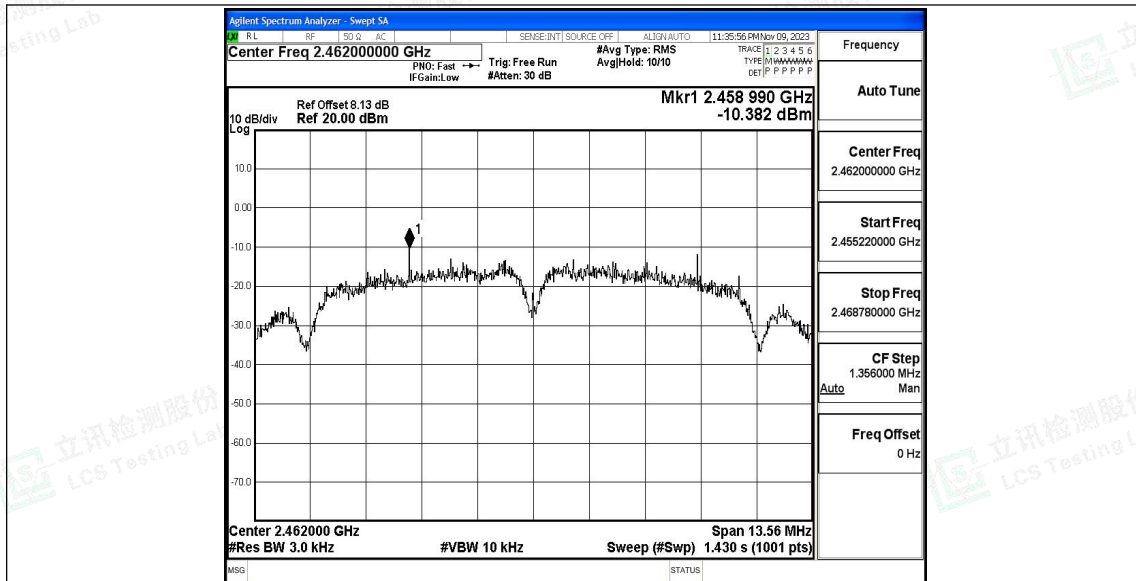
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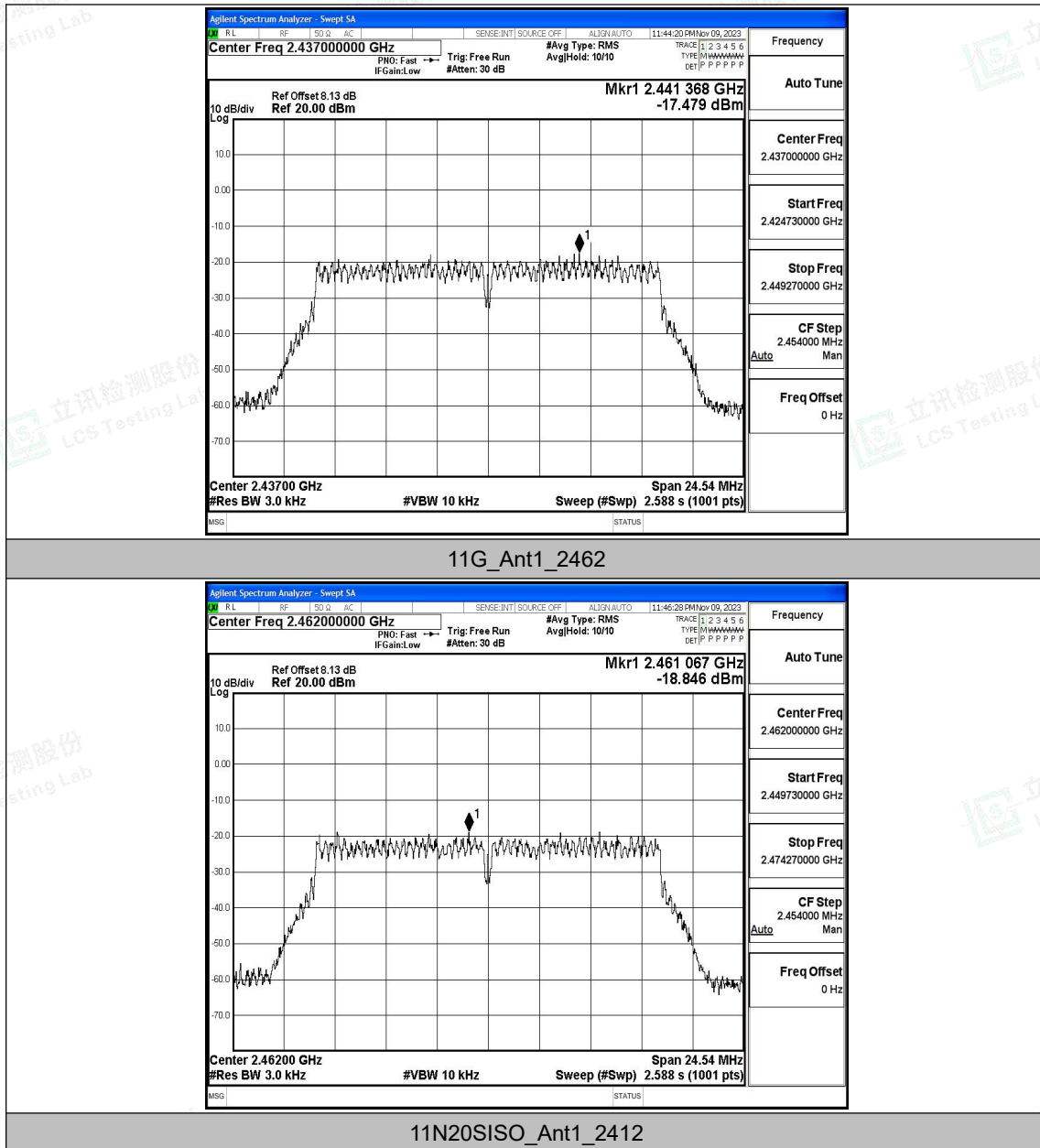
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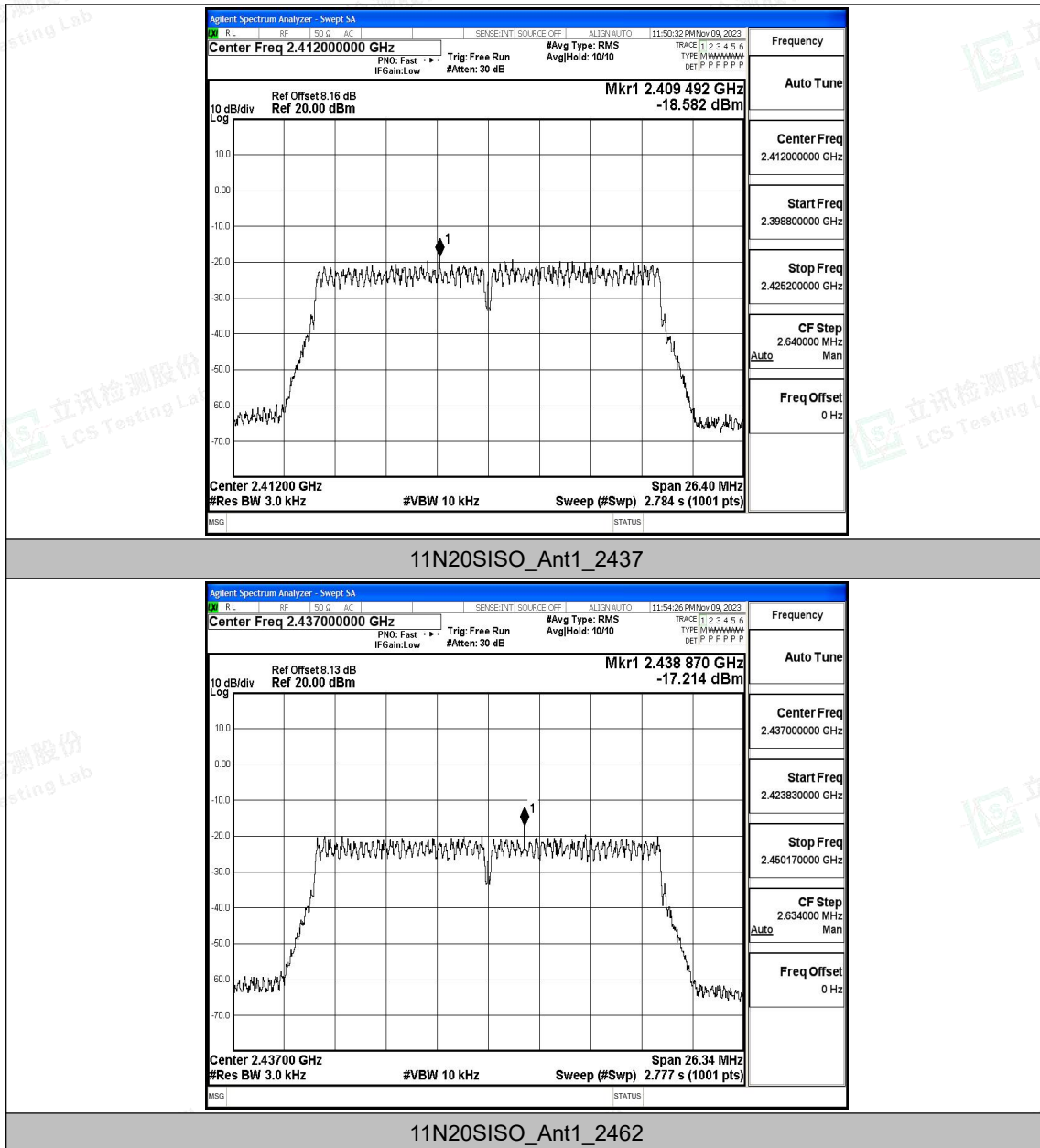


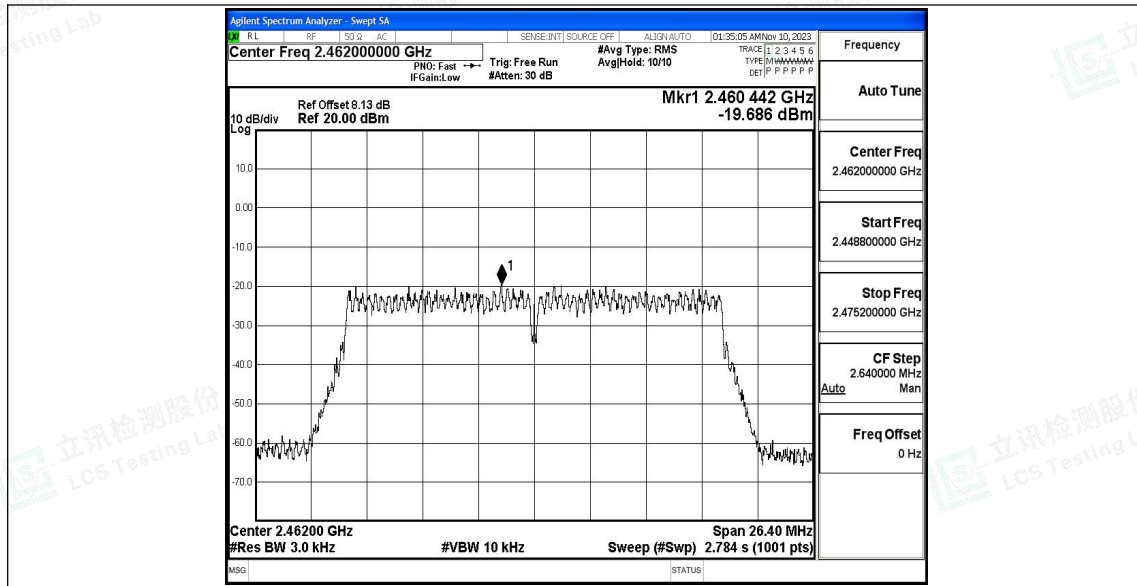
Test Graphs











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A.4 Band edge measurements

Reference level measurement Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2410.49	0.86
		2437	2438.50	0.37
		2462	2461.00	0.70
11G	Ant1	2412	2414.50	-4.72
		2437	2441.98	-4.37
		2462	2465.73	-5.45
11N20SISO	Ant1	2412	2408.25	-6.62
		2437	2432.00	-5.37
		2462	2466.99	-5.66

Band edge measurements Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.86	-45.51	≤-19.14	PASS
		High	2462	0.70	-50.2	≤-19.3	PASS
11G	Ant1	Low	2412	-4.72	-43.89	≤-24.72	PASS
		High	2462	-5.45	-49.09	≤-25.45	PASS
11N20SISO	Ant1	Low	2412	-6.62	-45.38	≤-26.62	PASS
		High	2462	-5.66	-49.66	≤-25.66	PASS



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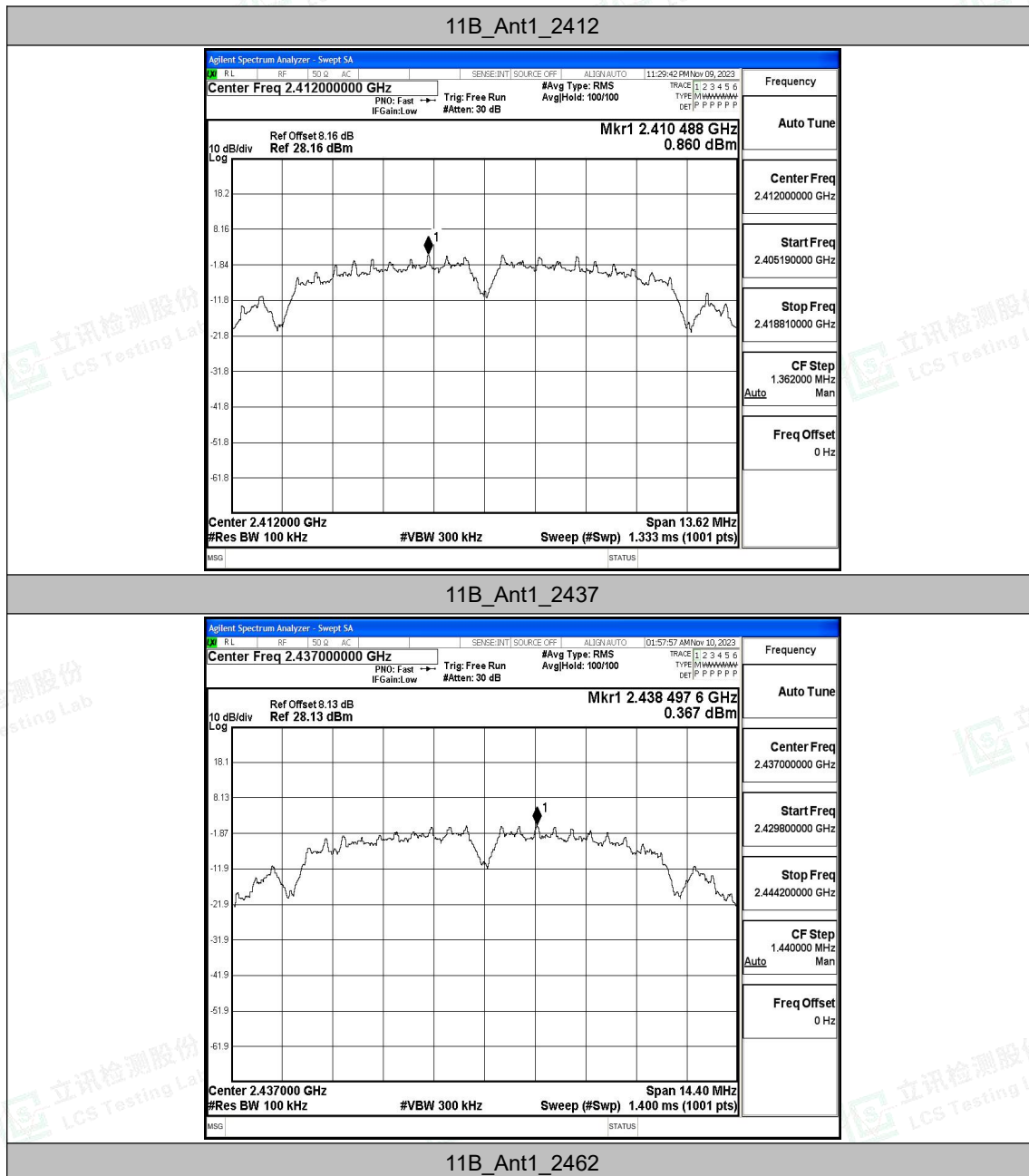
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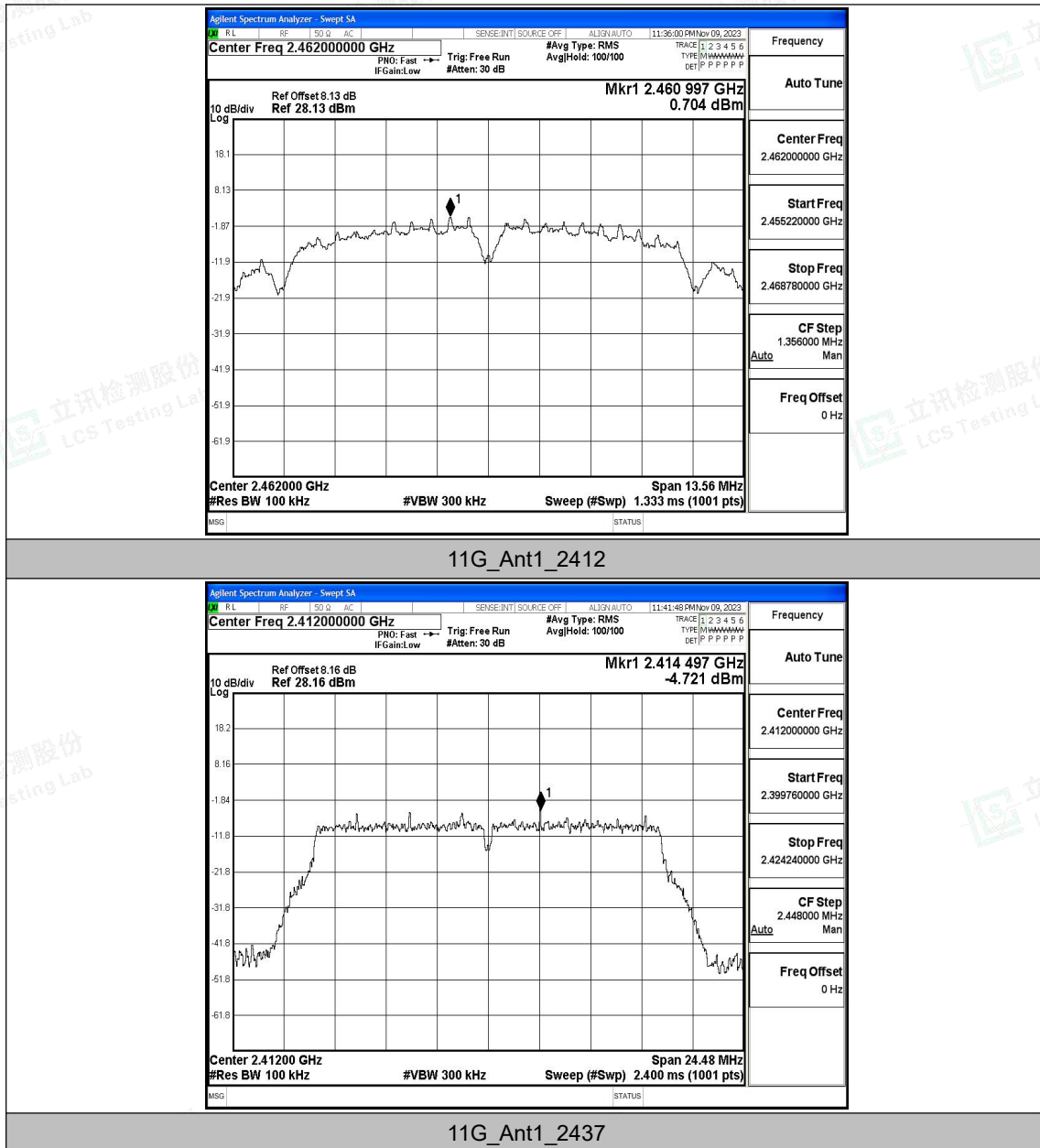
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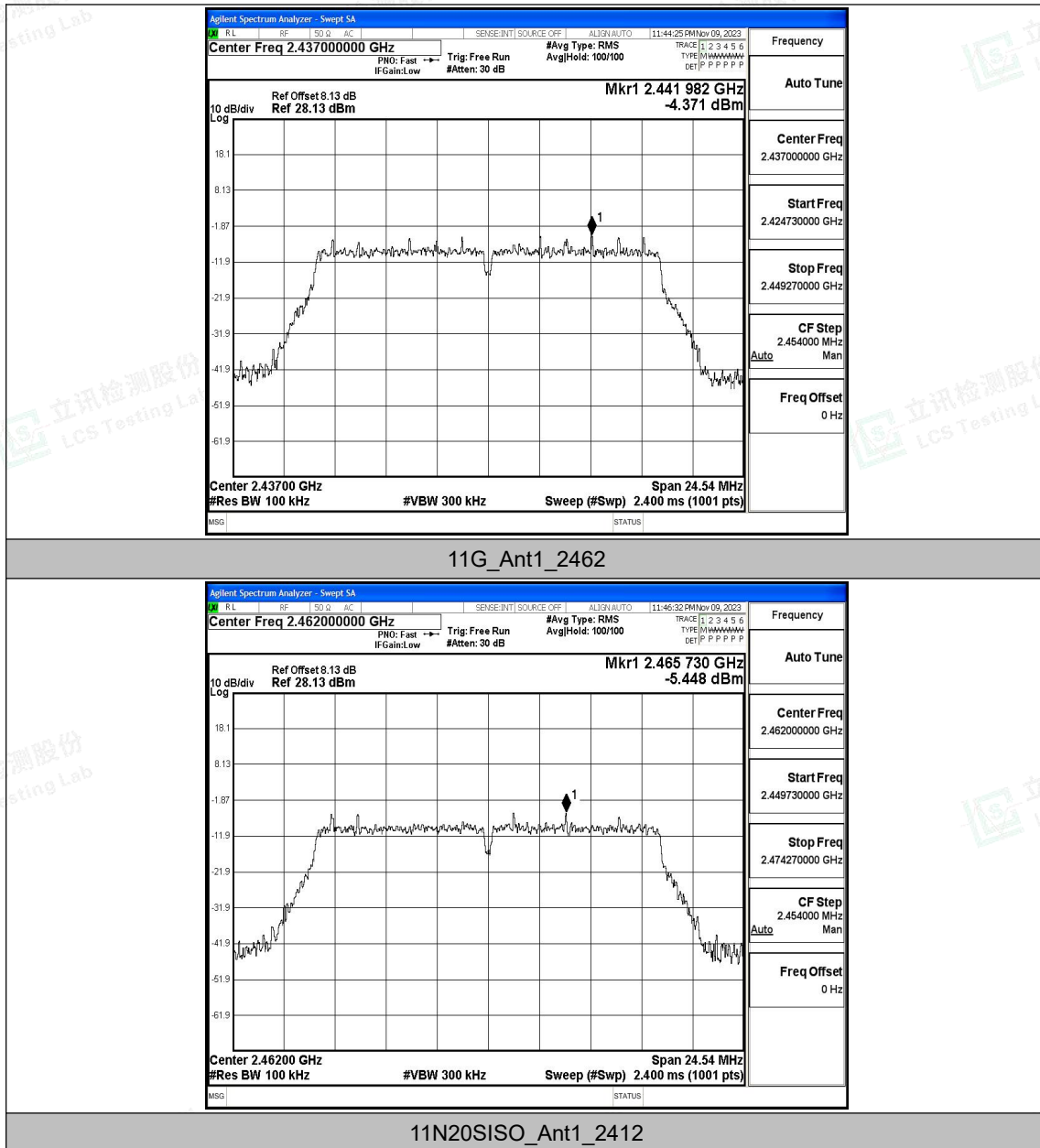
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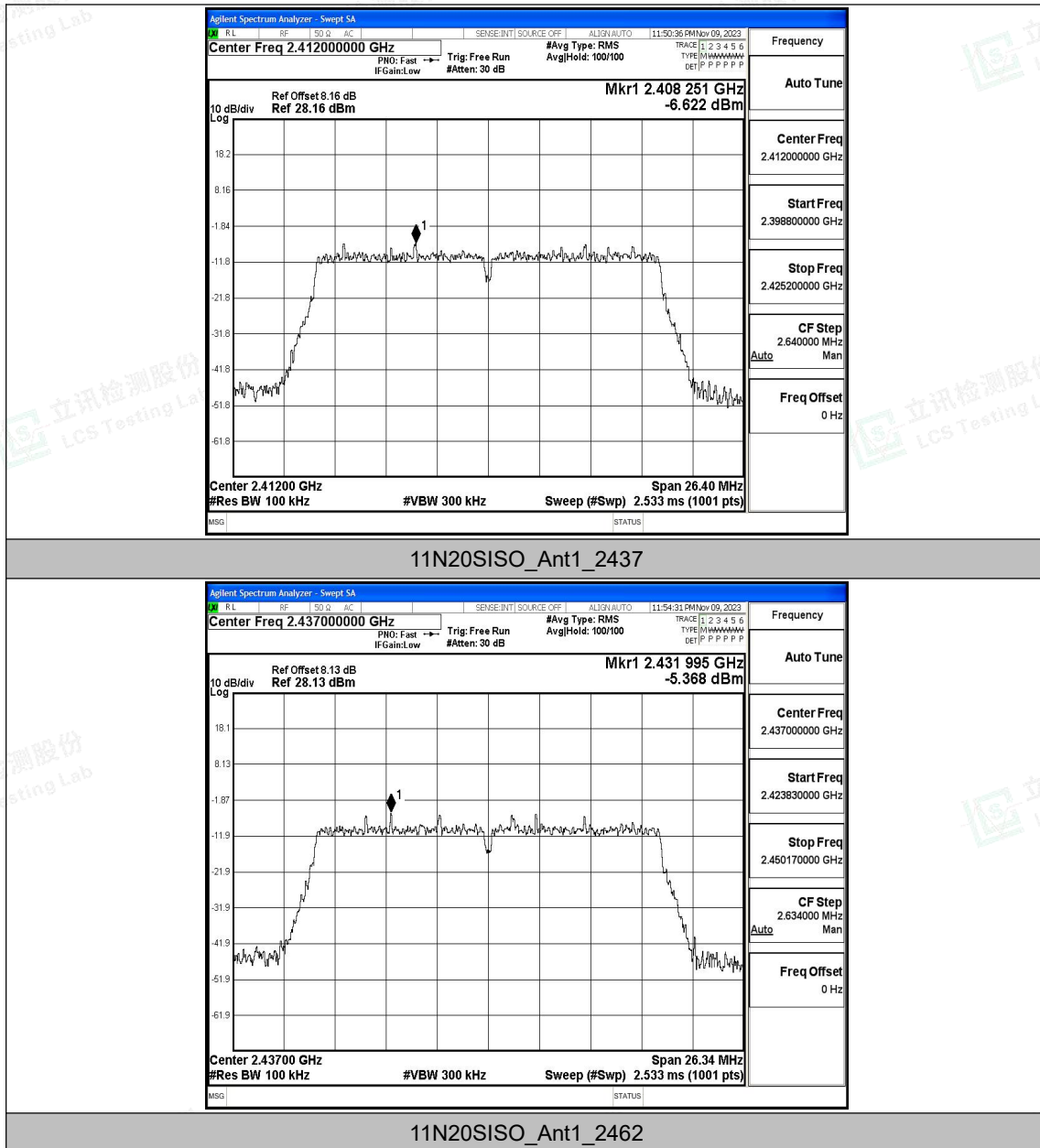


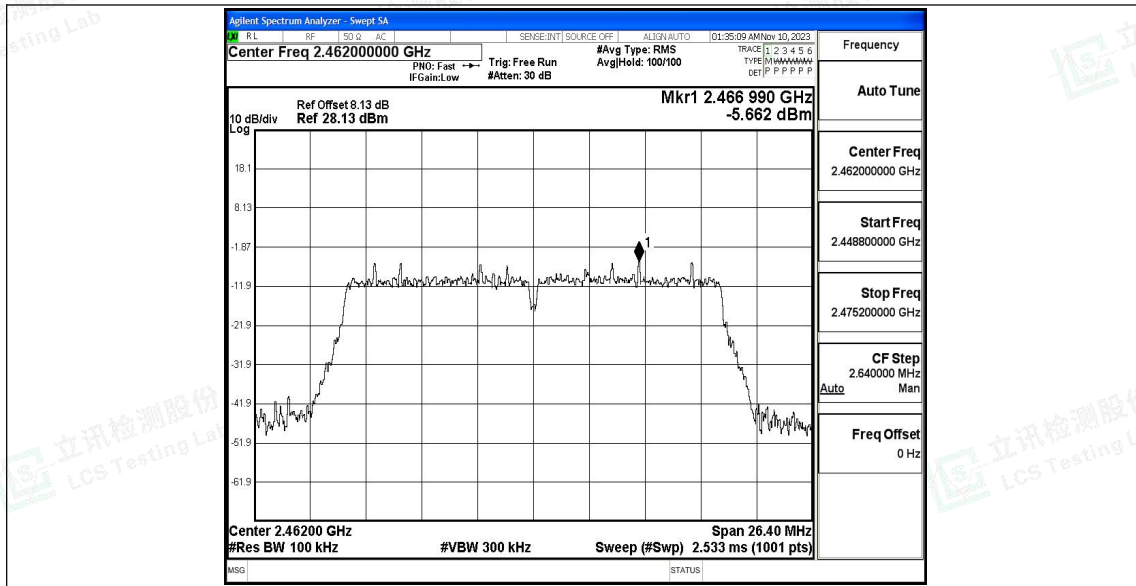
Reference level measurement Test Graphs







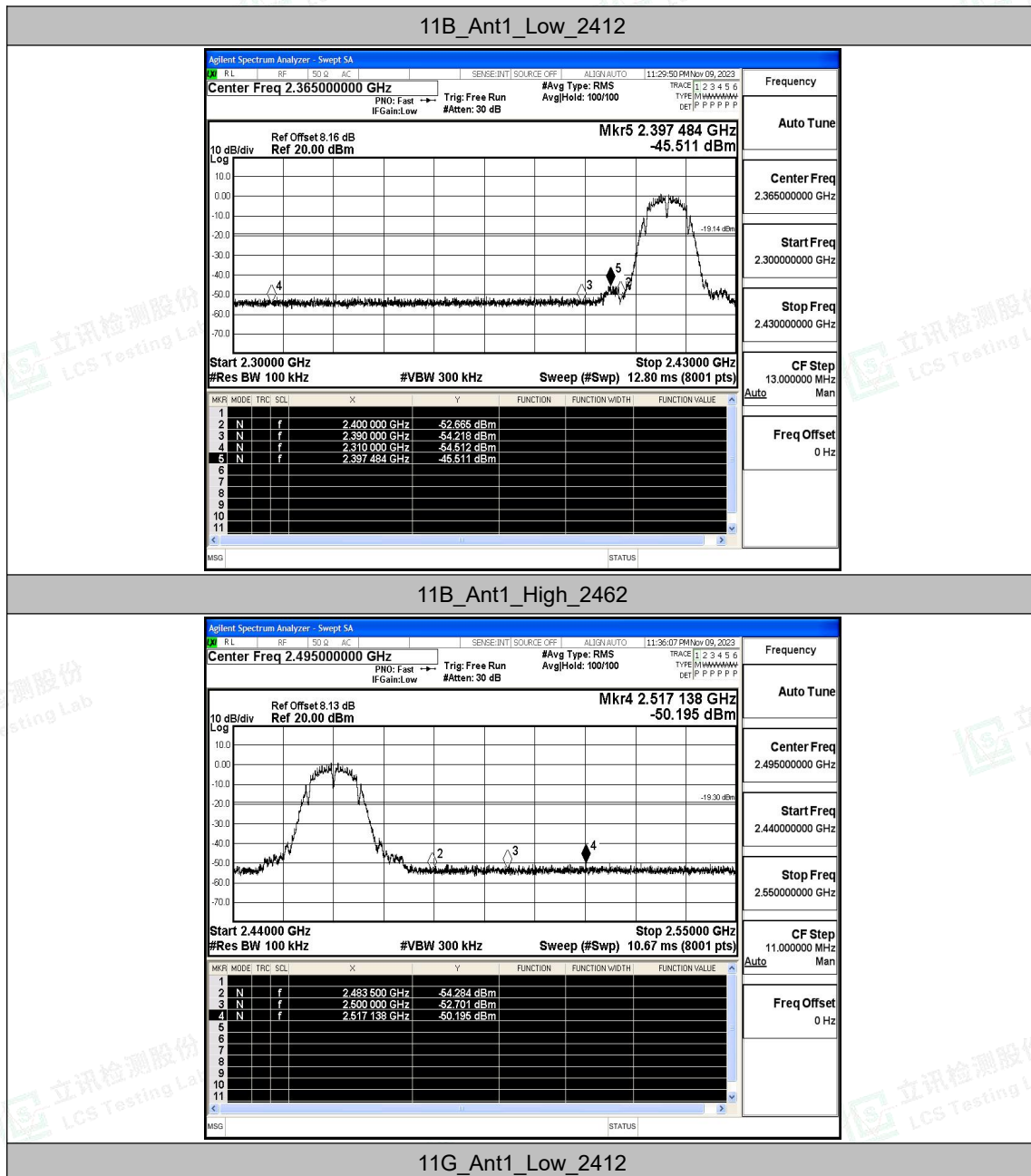




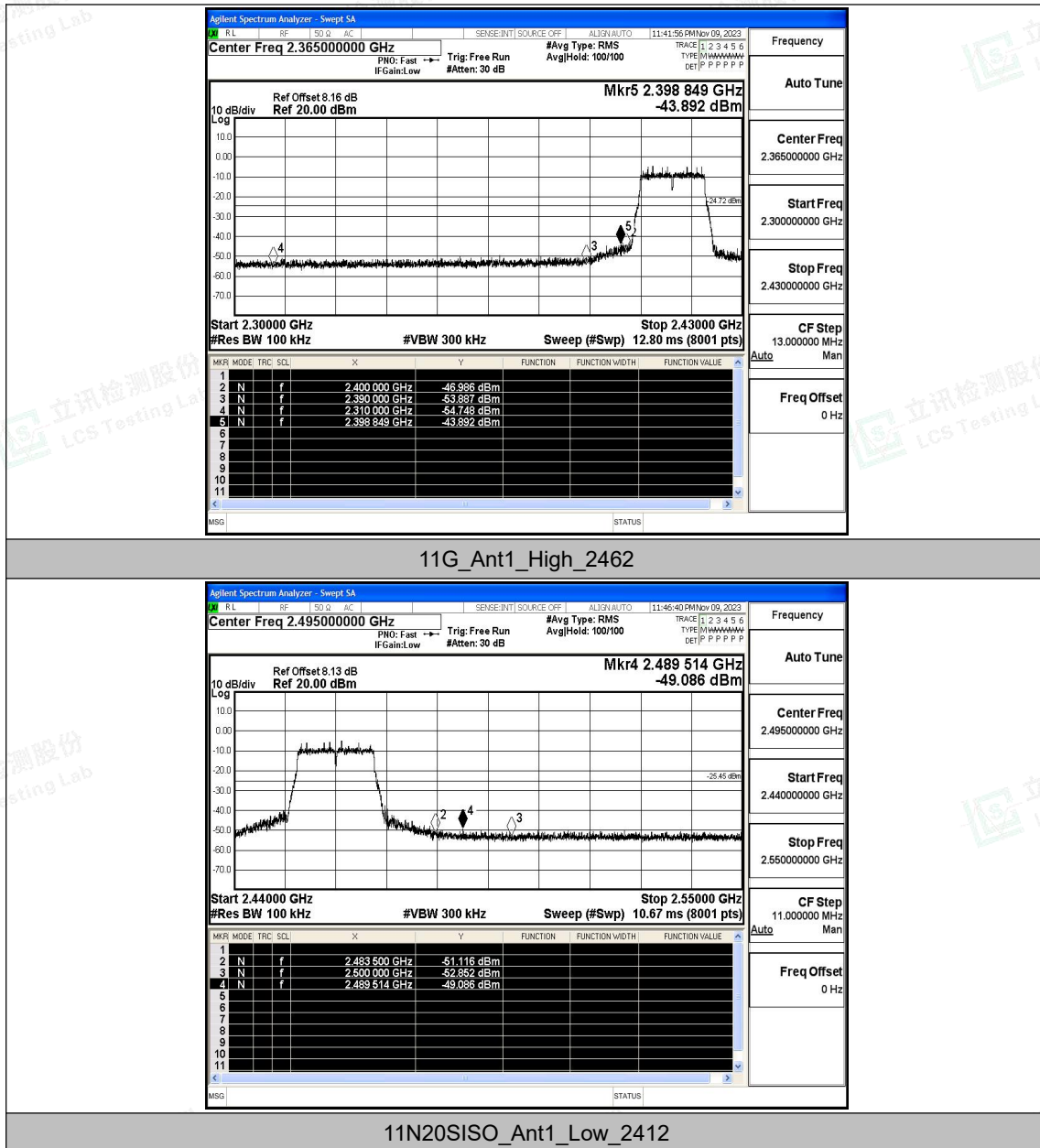
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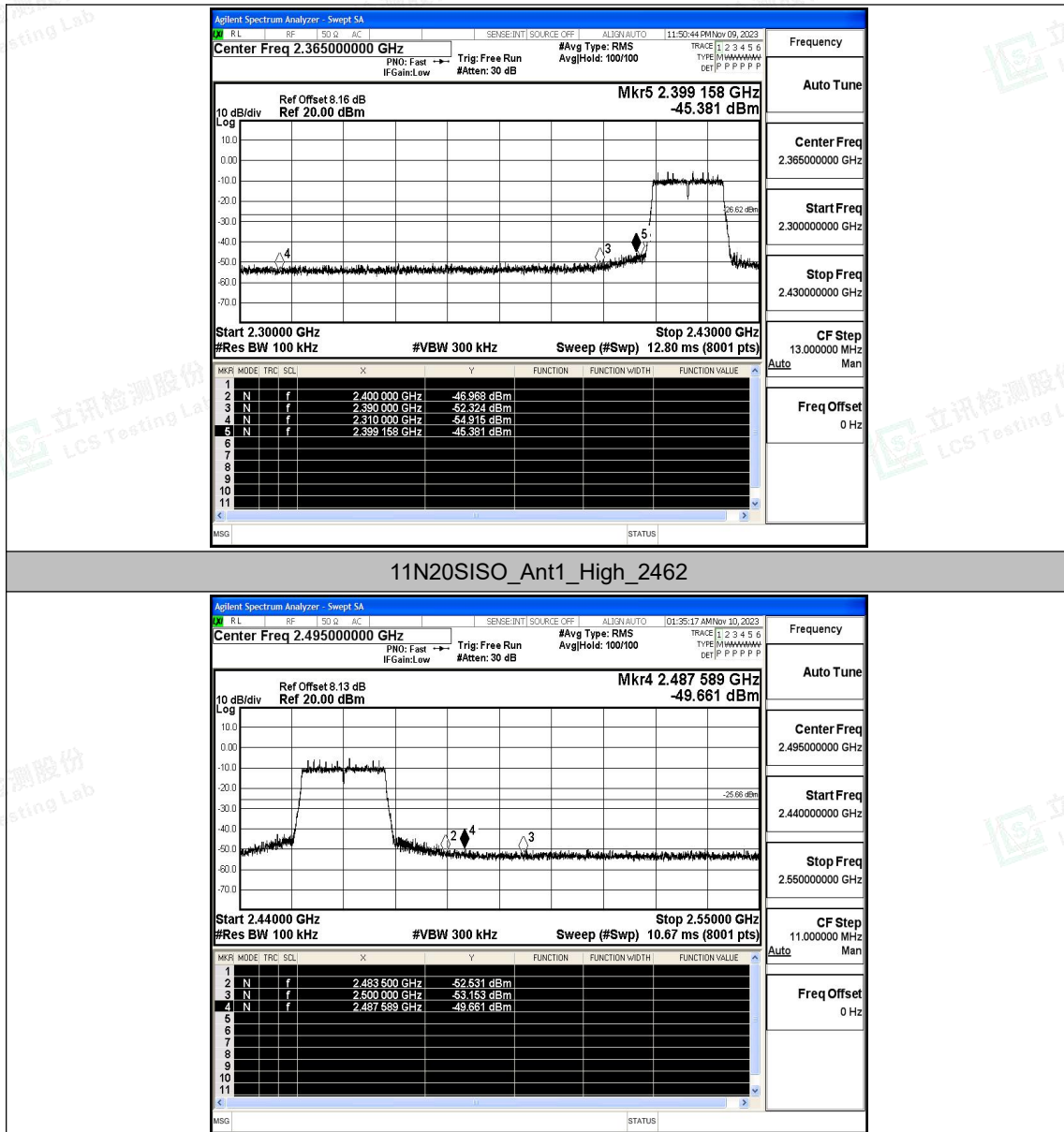


Band edge measurements Test Graphs



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A.5 Conducted Spurious Emission

Reference level measurement Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2410.49	0.86
		2437	2438.50	0.37
		2462	2461.00	0.70
11G	Ant1	2412	2414.50	-4.72
		2437	2441.98	-4.37
		2462	2465.73	-5.45
11N20SISO	Ant1	2412	2408.25	-6.62
		2437	2432.00	-5.37
		2462	2466.99	-5.66

Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	0.86	-61.5	≤-19.14	PASS
			1000~26500	0.86	-46.65	≤-19.14	PASS
		2437	30~1000	0.37	-61.77	≤-19.63	PASS
			1000~26500	0.37	-49.18	≤-19.63	PASS
		2462	30~1000	0.70	-61.64	≤-19.3	PASS
			1000~26500	0.70	-48.86	≤-19.3	PASS
11G	Ant1	2412	30~1000	-4.72	-61.6	≤-24.72	PASS
			1000~26500	-4.72	-47.58	≤-24.72	PASS
		2437	30~1000	-4.37	-61.88	≤-24.37	PASS
			1000~26500	-4.37	-42.77	≤-24.37	PASS
		2462	30~1000	-5.45	-62.15	≤-25.45	PASS
			1000~26500	-5.45	-46.59	≤-25.45	PASS
11N20SISO	Ant1	2412	30~1000	-6.62	-61.48	≤-26.62	PASS
			1000~26500	-6.62	-48.97	≤-26.62	PASS
		2437	30~1000	-5.37	-61.12	≤-25.37	PASS
			1000~26500	-5.37	-48.4	≤-25.37	PASS
		2462	30~1000	-5.66	-61.8	≤-25.66	PASS
			1000~26500	-5.66	-49.06	≤-25.66	PASS



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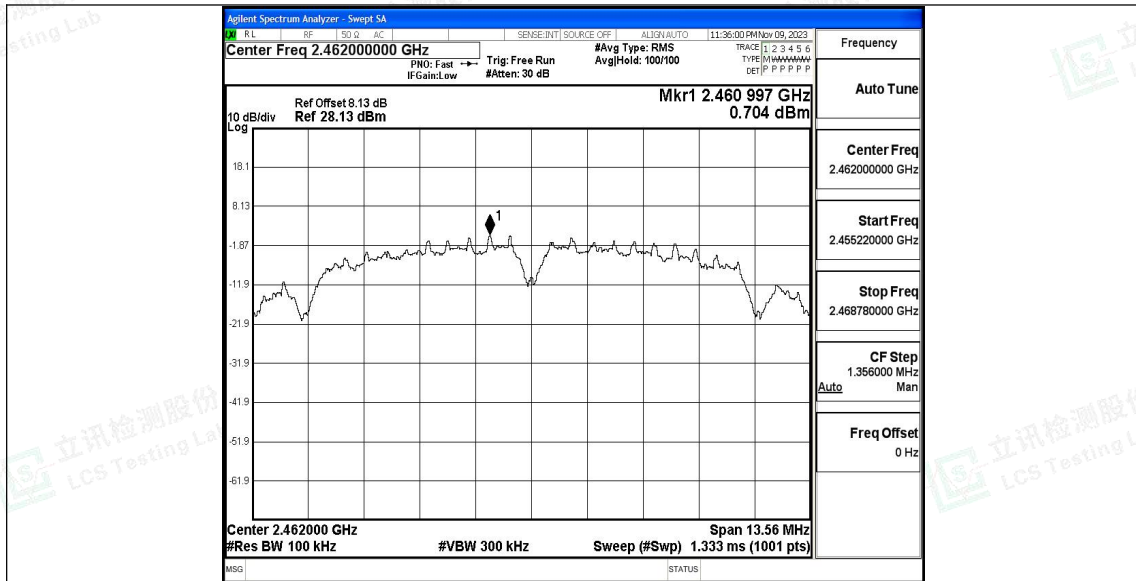
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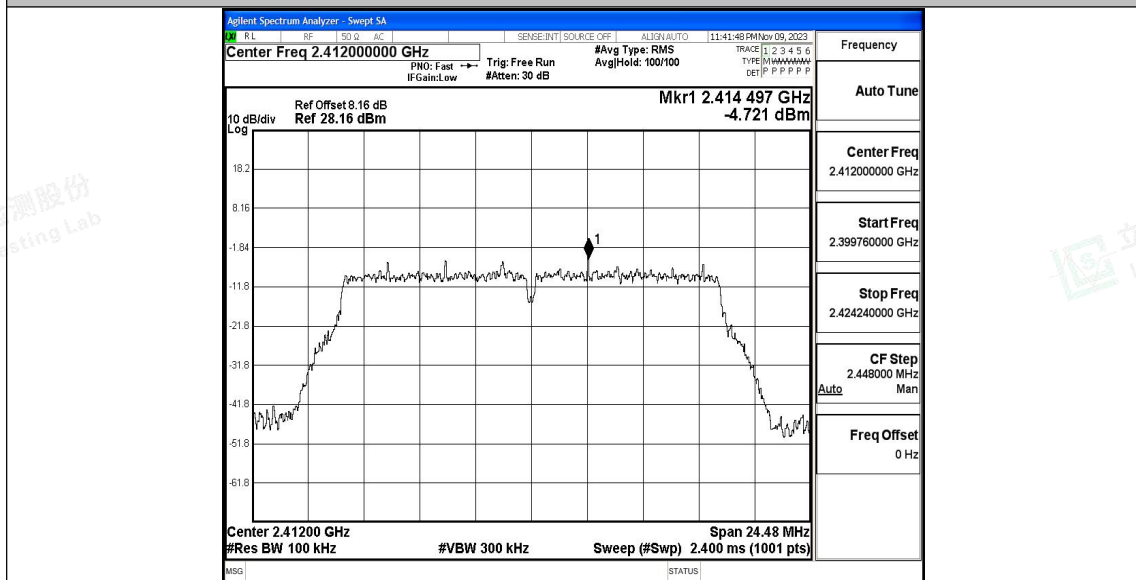


Reference level measurement Test Graphs



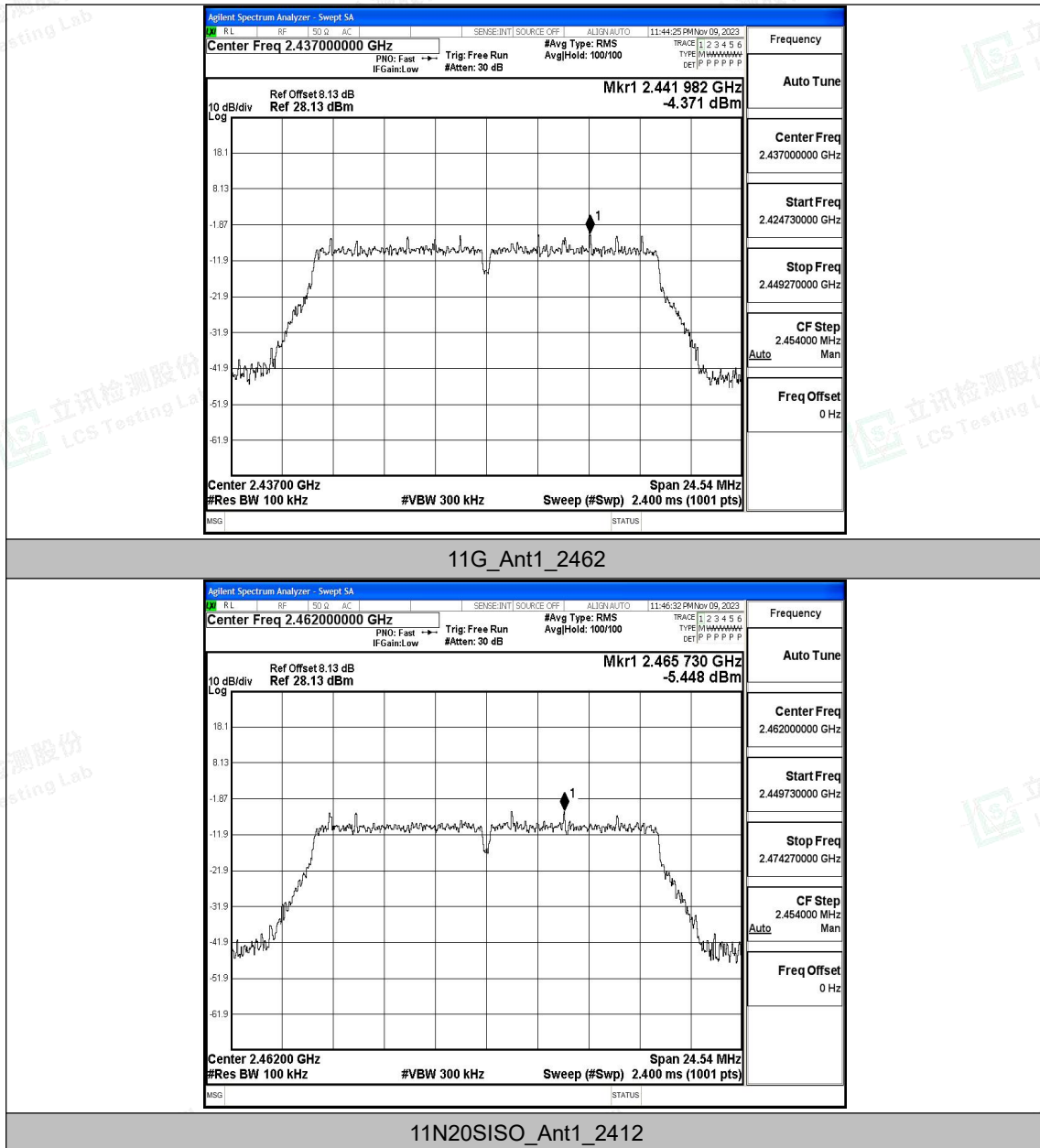


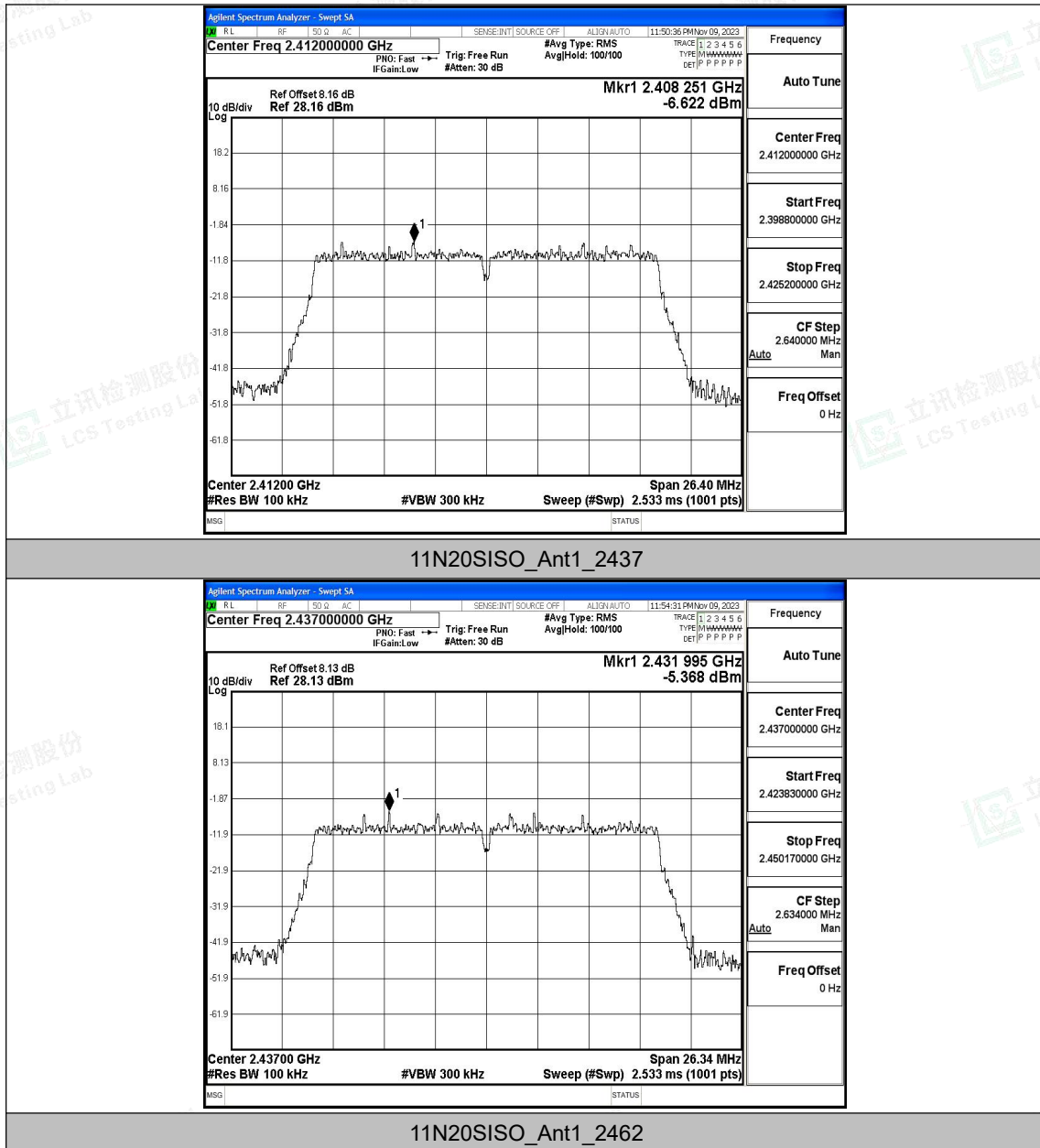
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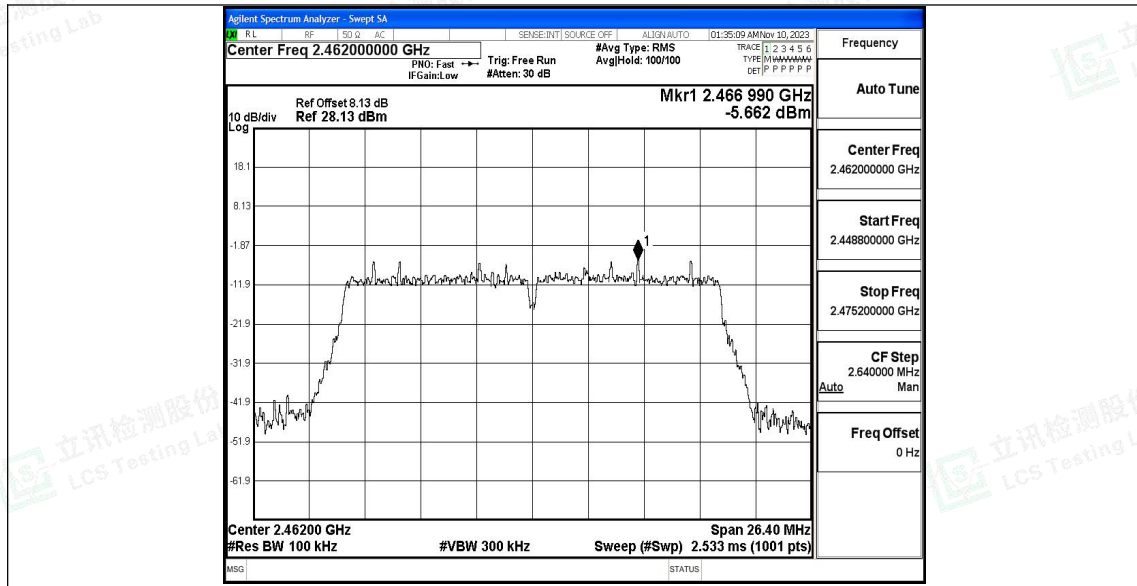


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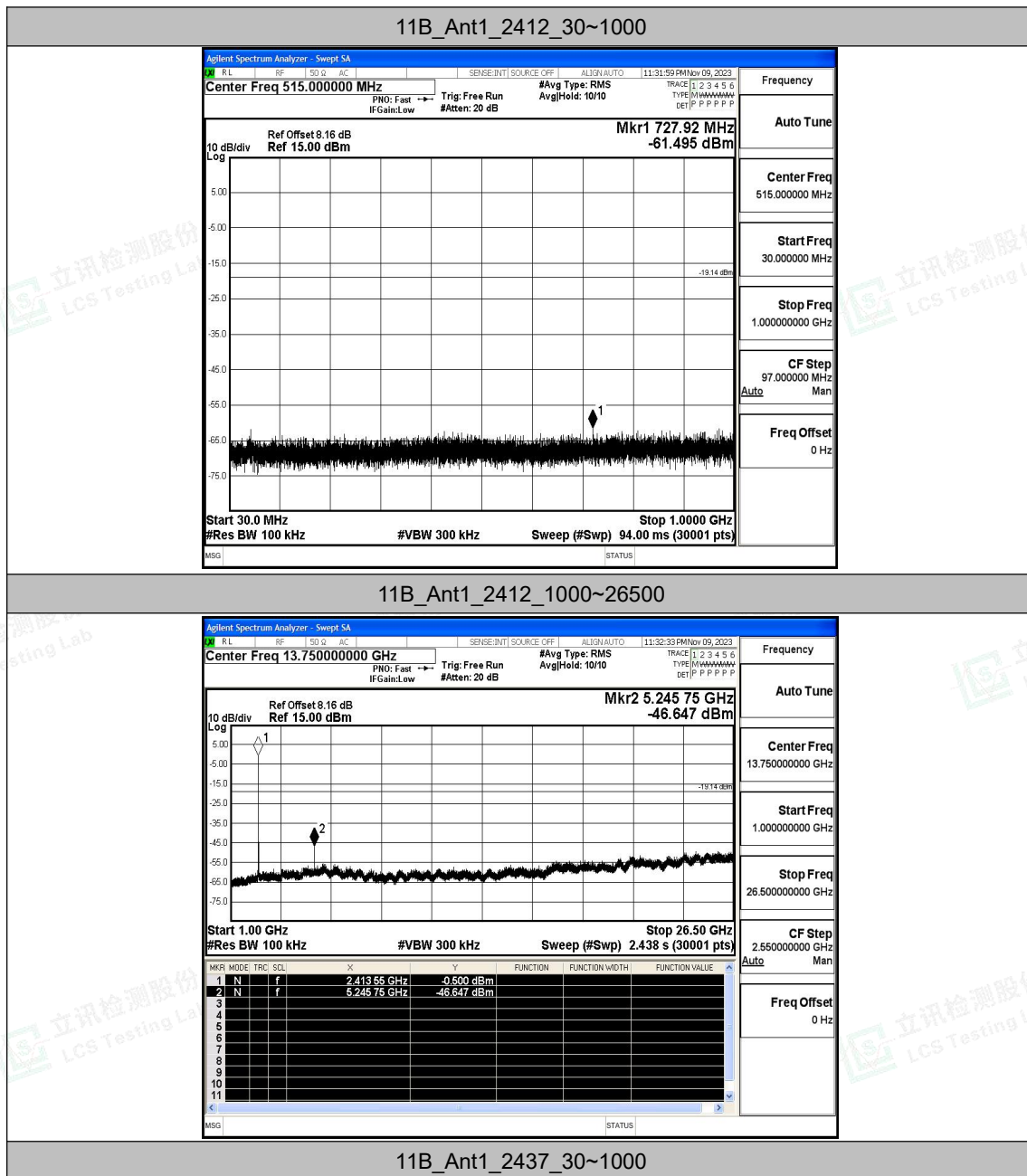




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Conducted Spurious Emission Test Graphs



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