



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: OutdoorCam D1 Lite

Test Model: C5L

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Taylor Hu</i> Taylor Hu
Supervised by:	<i>Li Huan</i> Li Huan



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	9.520	2407.480	2417.000	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	9.080	2457.440	2466.520	0.5	PASS
11G	Ant	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant	2422	35.760	2404.080	2439.840	0.5	PASS
		2437	36.000	2419.080	2455.080	0.5	PASS
		2452	35.680	2434.240	2469.920	0.5	PASS



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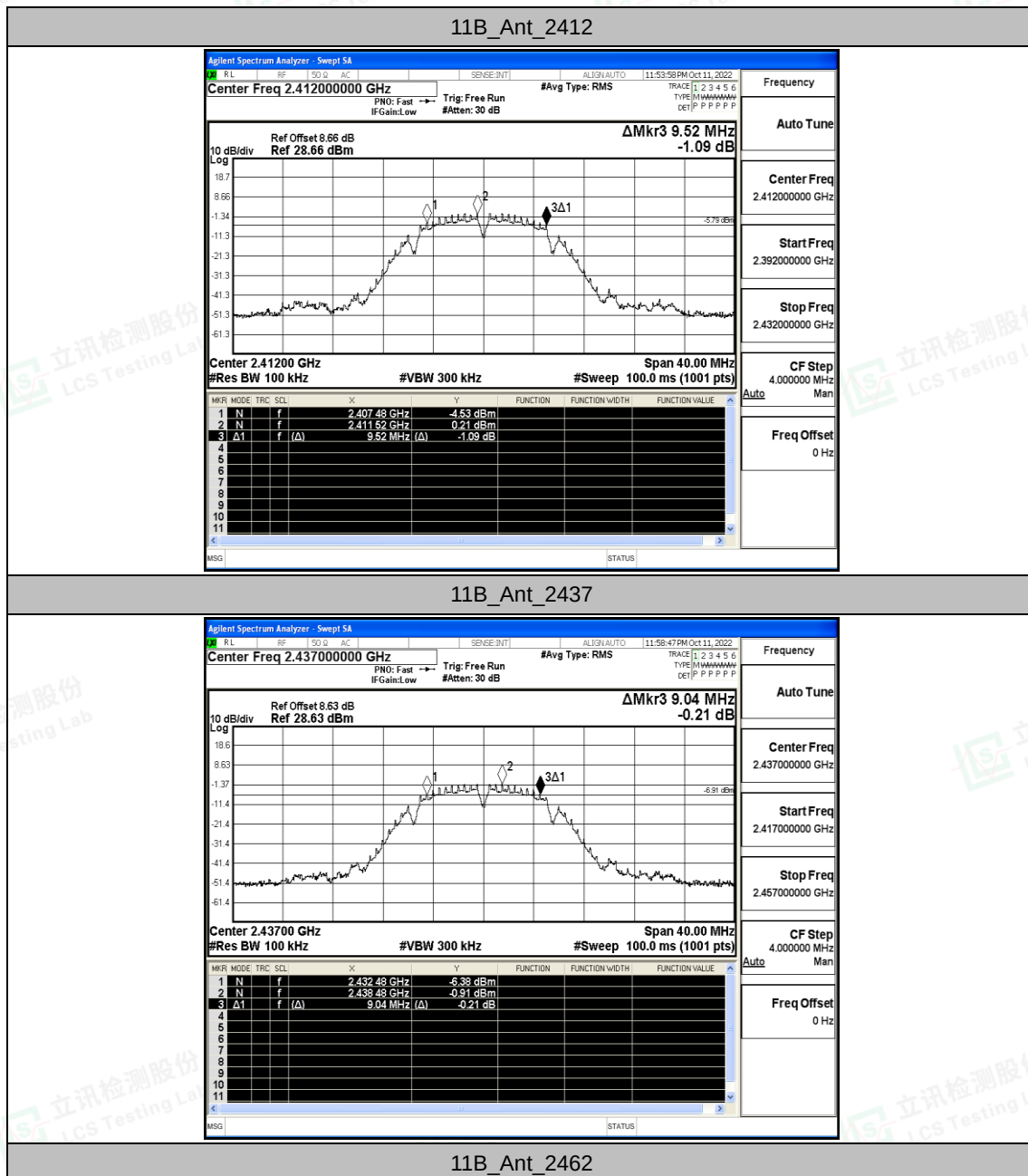
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Test Graphs

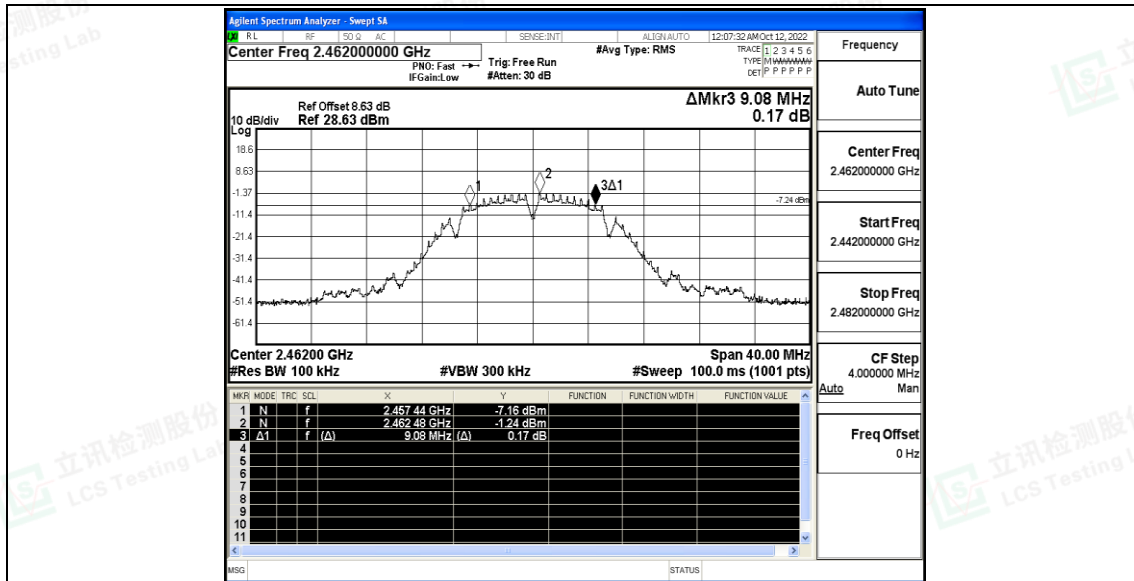


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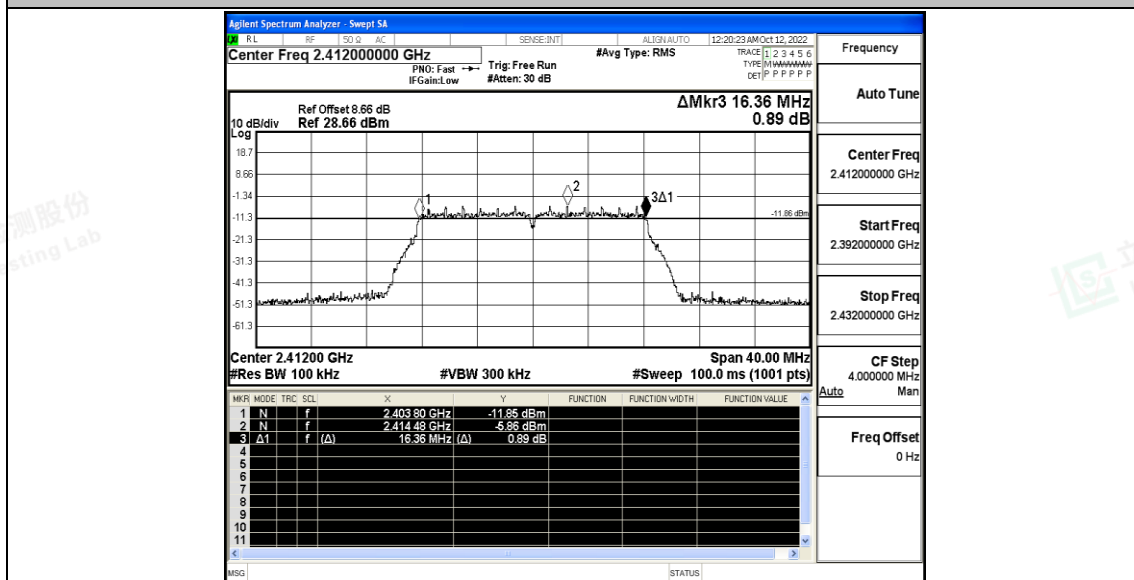
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11G_Ant_2412



11G_Ant_2437

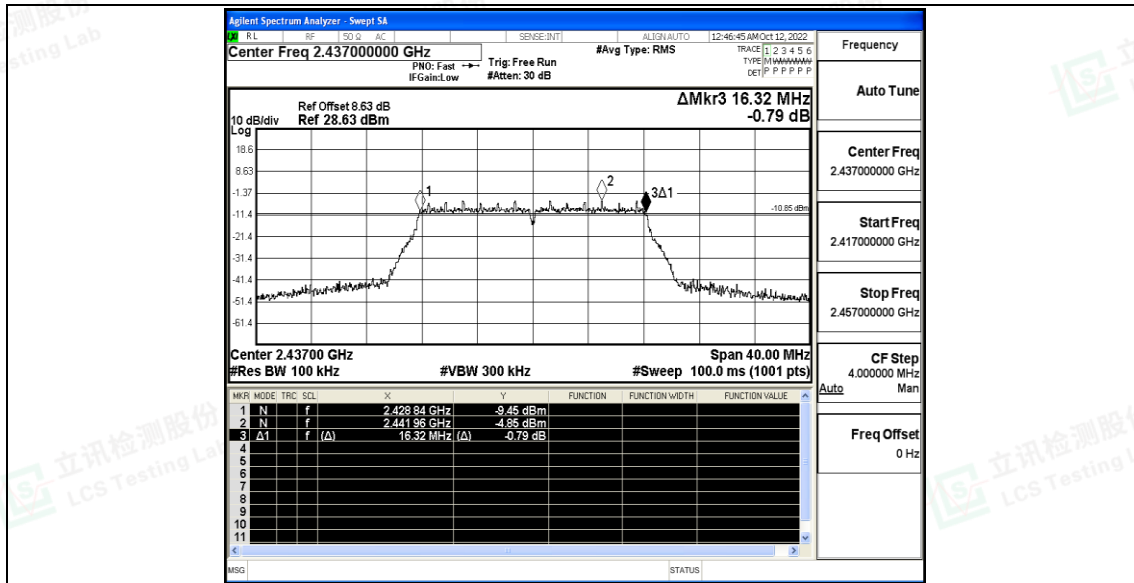


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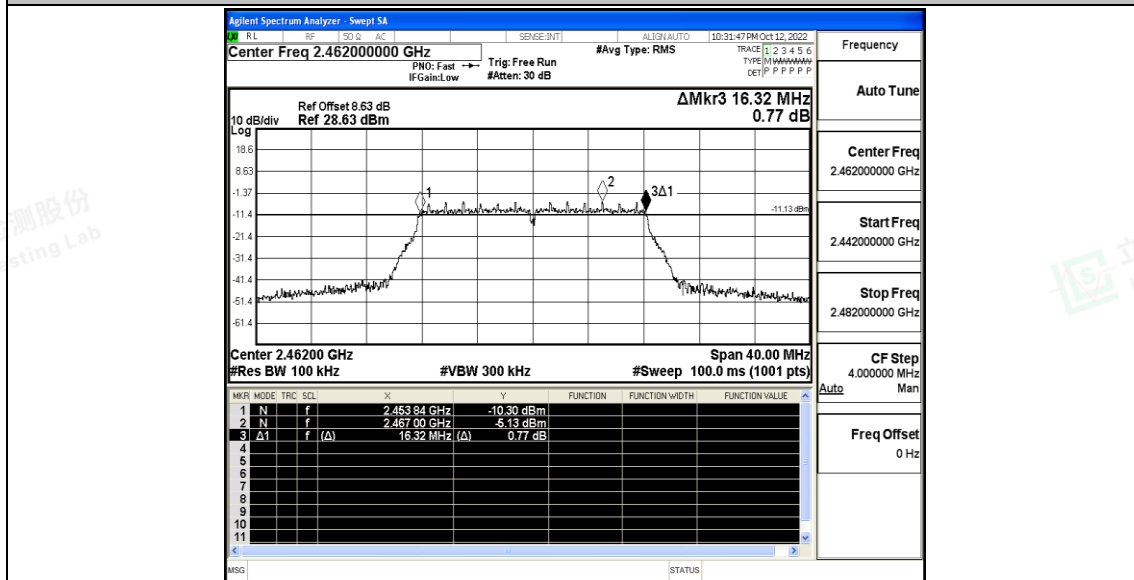
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11G_Ant_2462



11N20SISO_Ant_2412

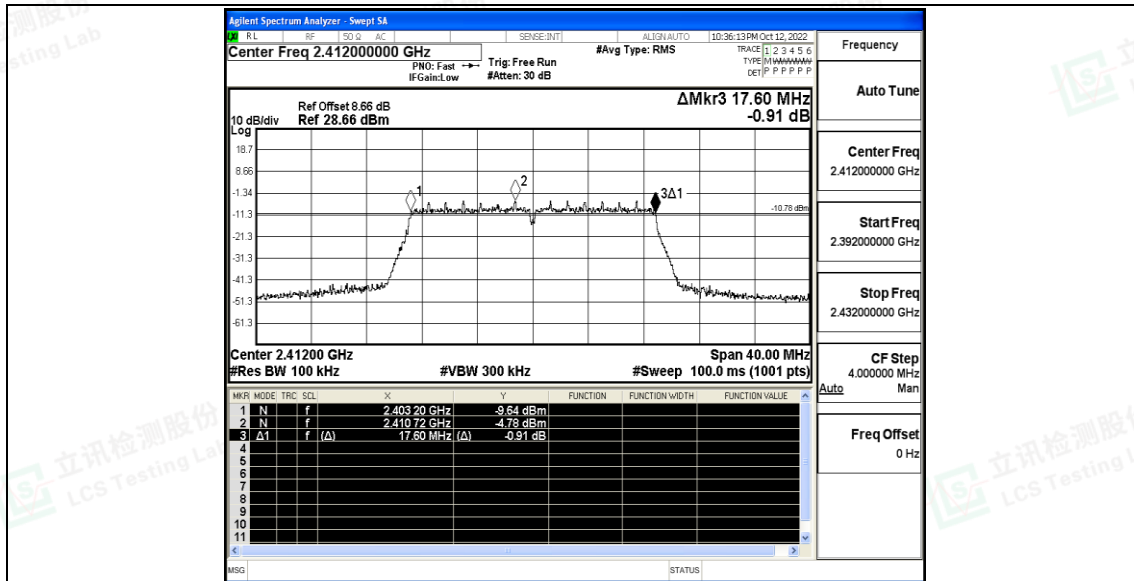


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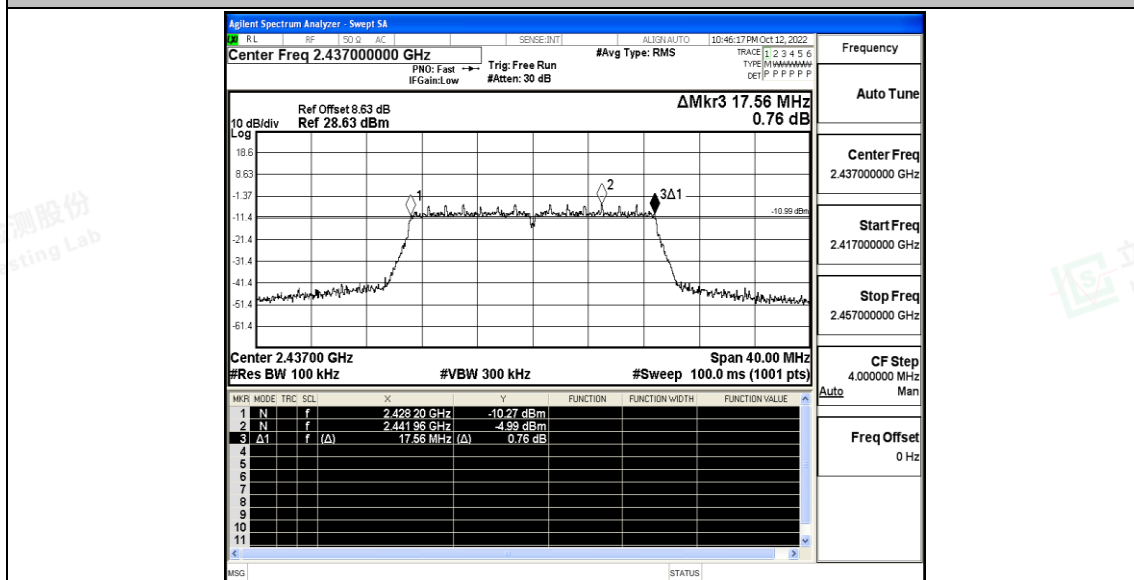
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

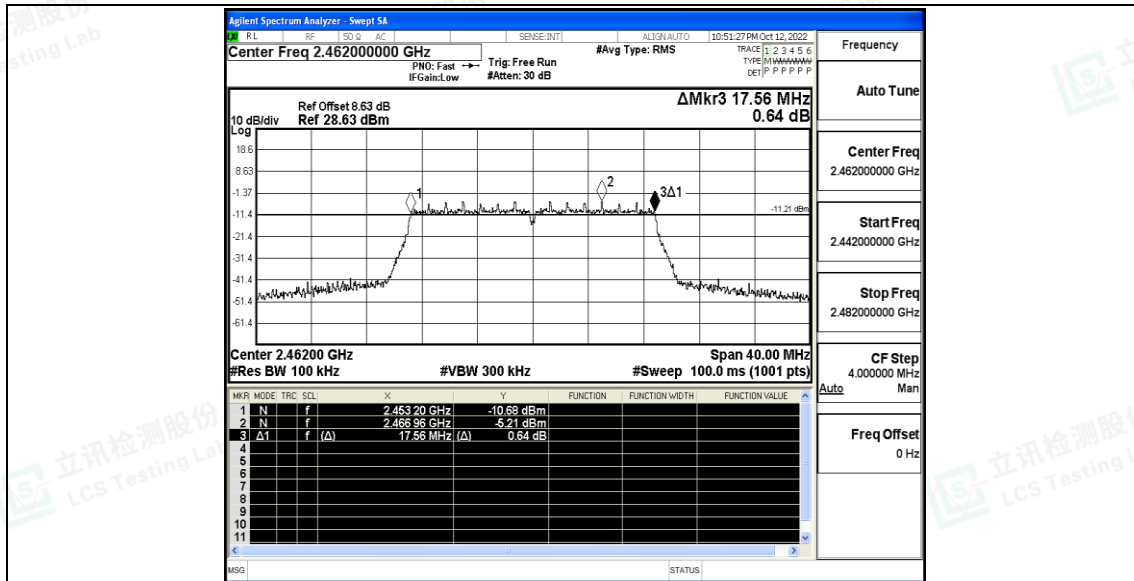


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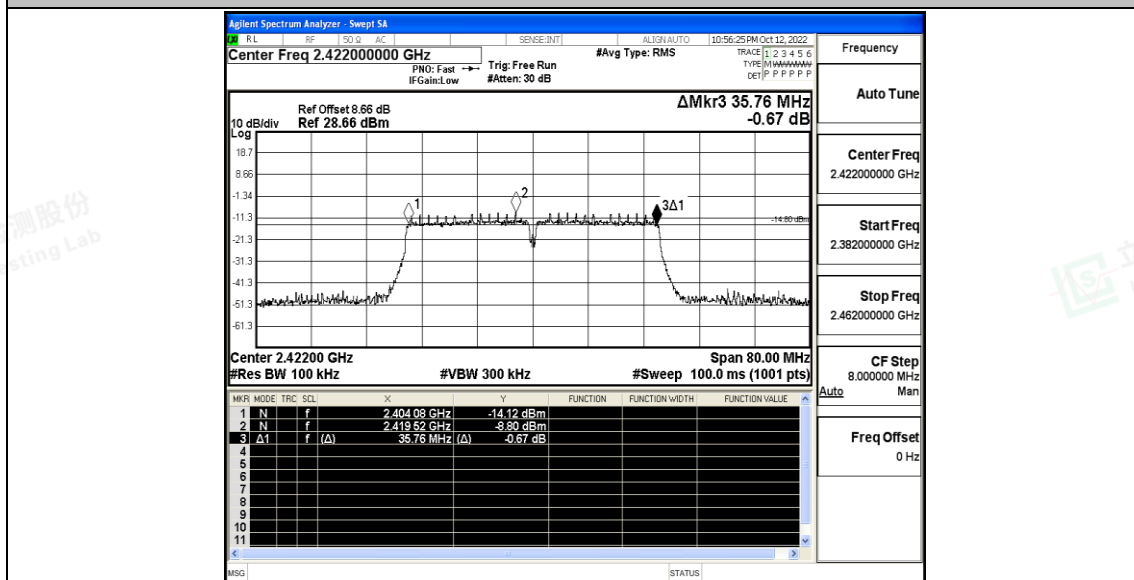
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11N40SISO_Ant_2422



11N40SISO_Ant_2437

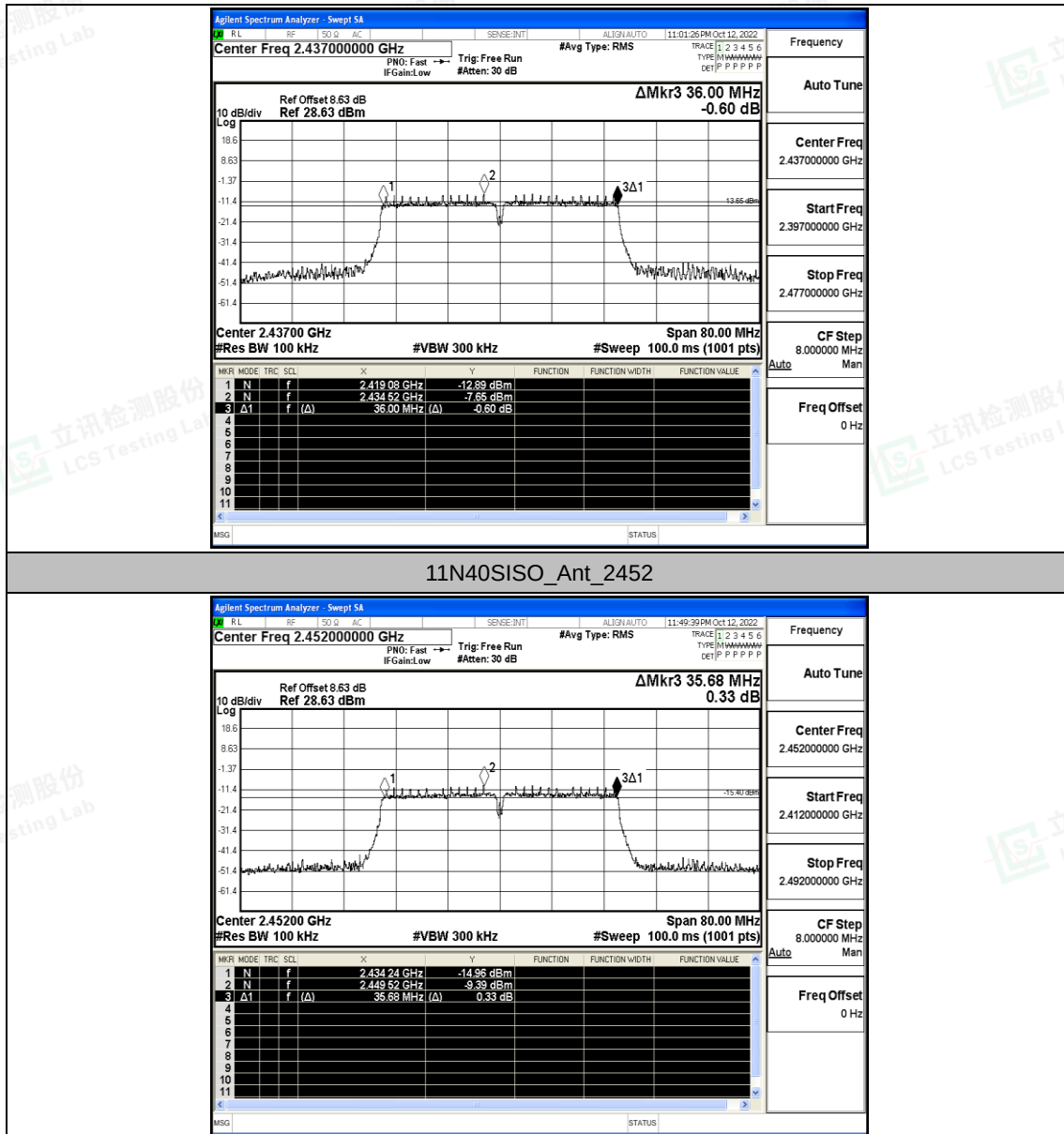


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A.2 Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	12.374	2405.8143	2418.1883	---	PASS
		2437	12.412	2430.7869	2443.1989	---	PASS
		2462	12.493	2455.7634	2468.2564	---	PASS
11G	Ant	2412	16.979	2403.5029	2420.4819	---	PASS
		2437	17.044	2428.4852	2445.5292	---	PASS
		2462	16.990	2453.5440	2470.5340	---	PASS
11N20SISO	Ant	2412	17.911	2403.0607	2420.9717	---	PASS
		2437	17.941	2428.0437	2445.9847	---	PASS
		2462	17.910	2453.0378	2470.9478	---	PASS
11N40SISO	Ant	2422	36.277	2403.8498	2440.1268	---	PASS
		2437	36.299	2418.8250	2455.1240	---	PASS
		2452	36.288	2433.8558	2470.1438	---	PASS



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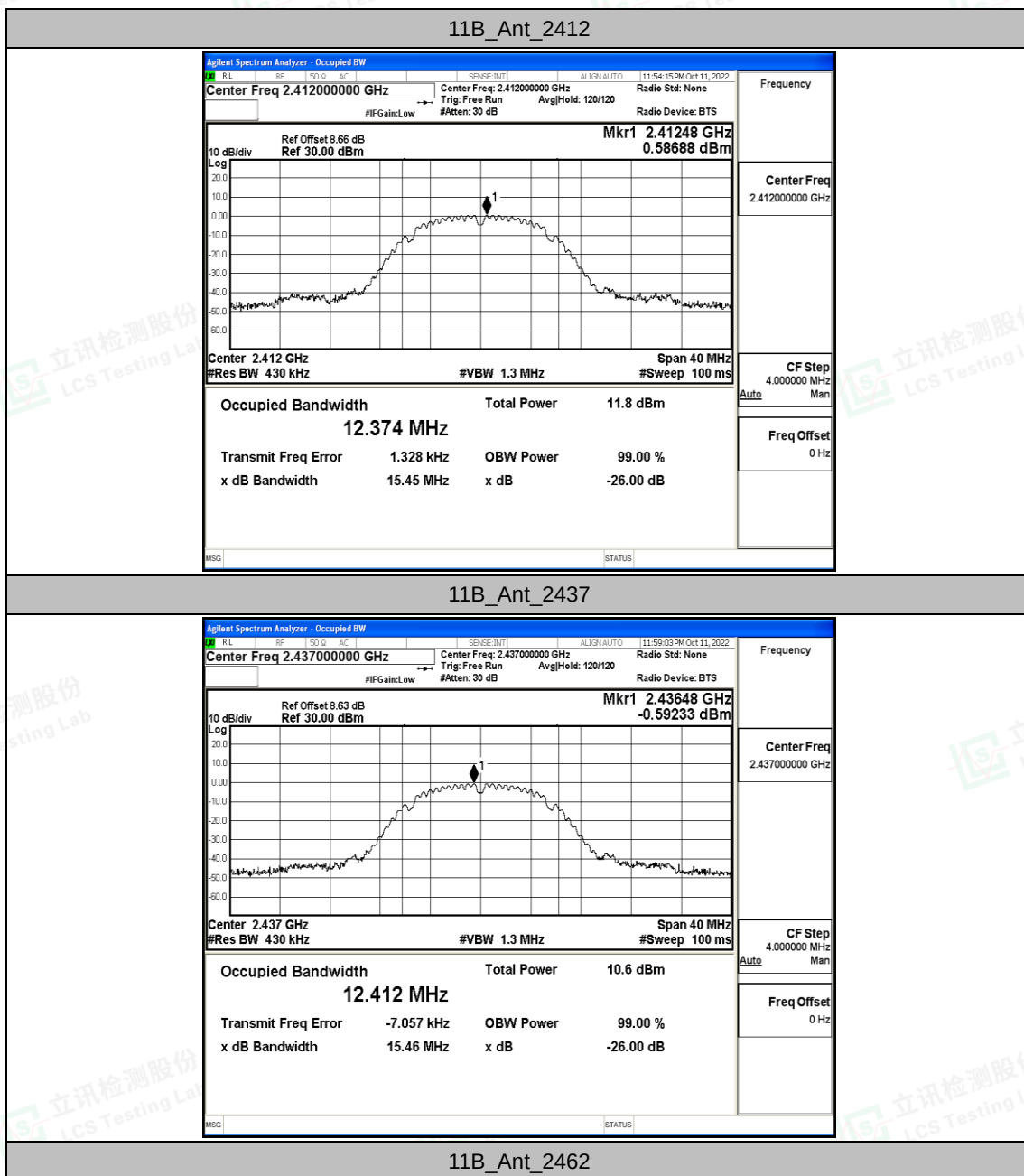
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Test Graphs

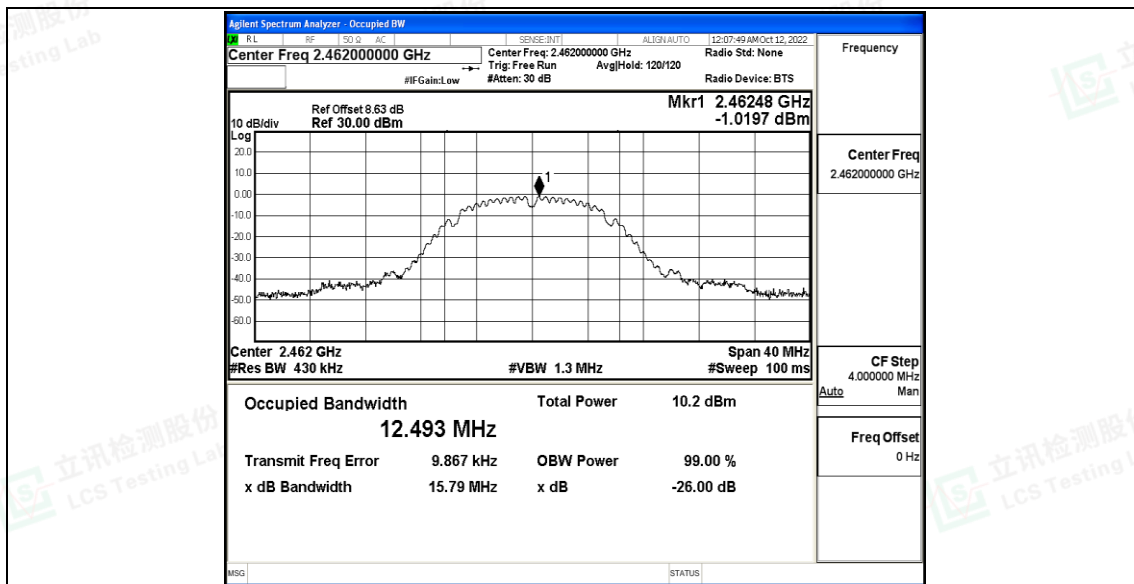


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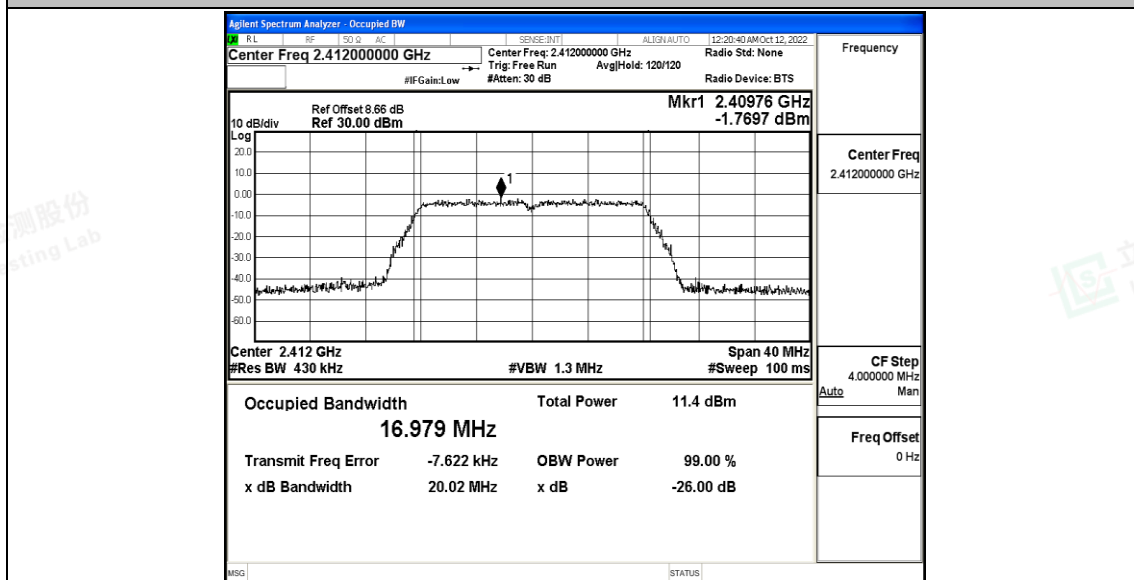
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11G_Ant_2412



11G_Ant_2437

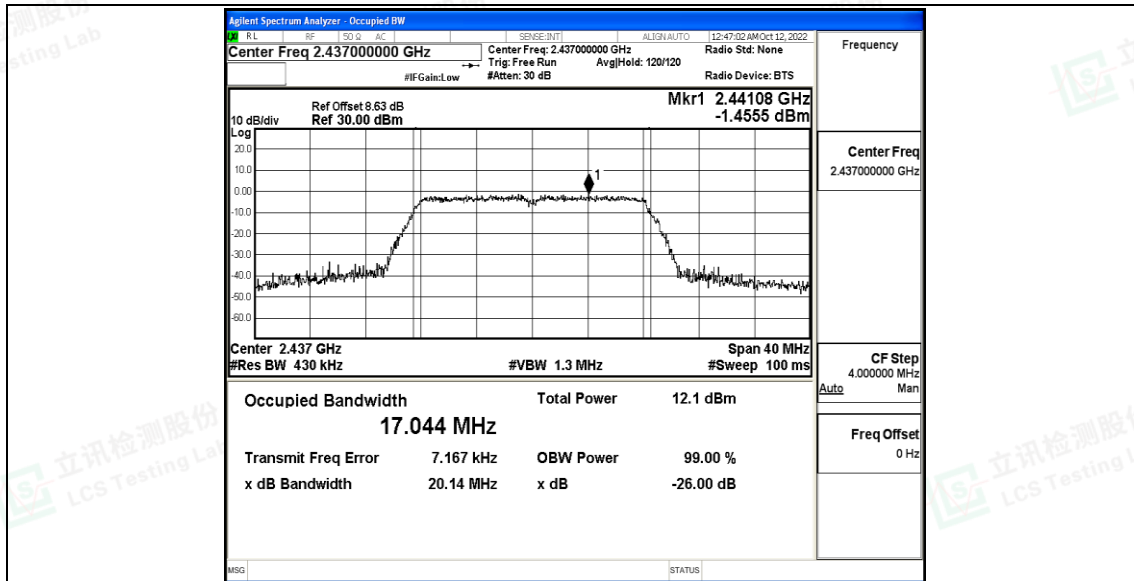


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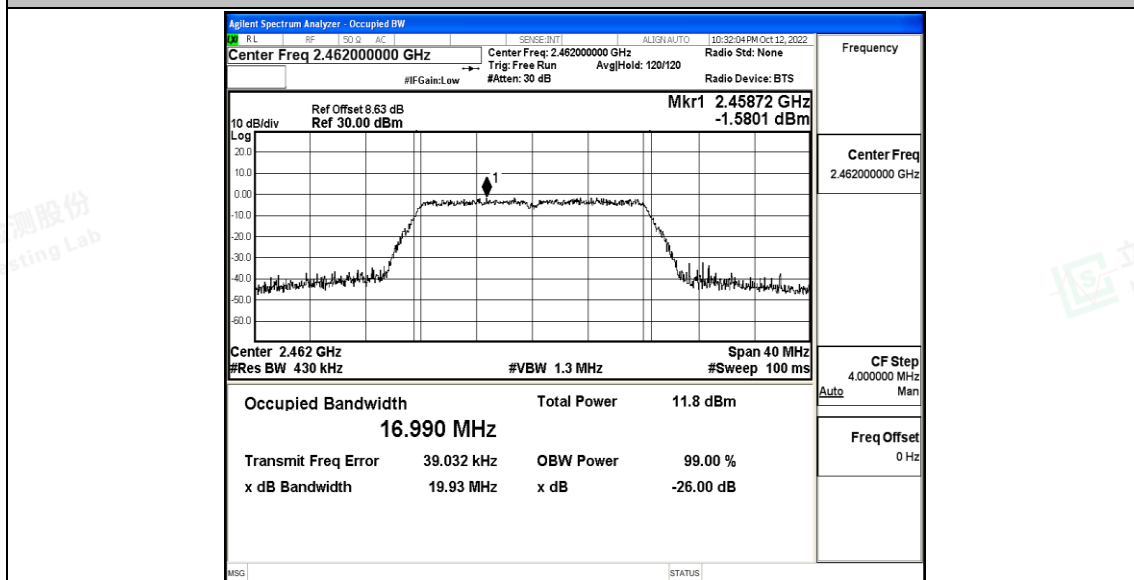
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11G_Ant_2462



11N20SISO_Ant_2412

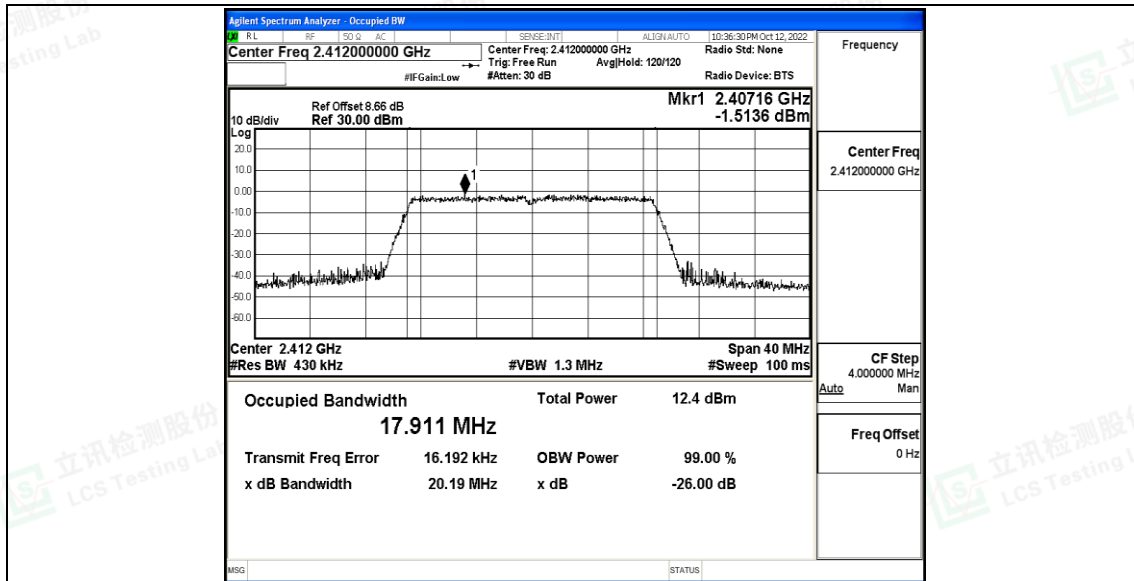


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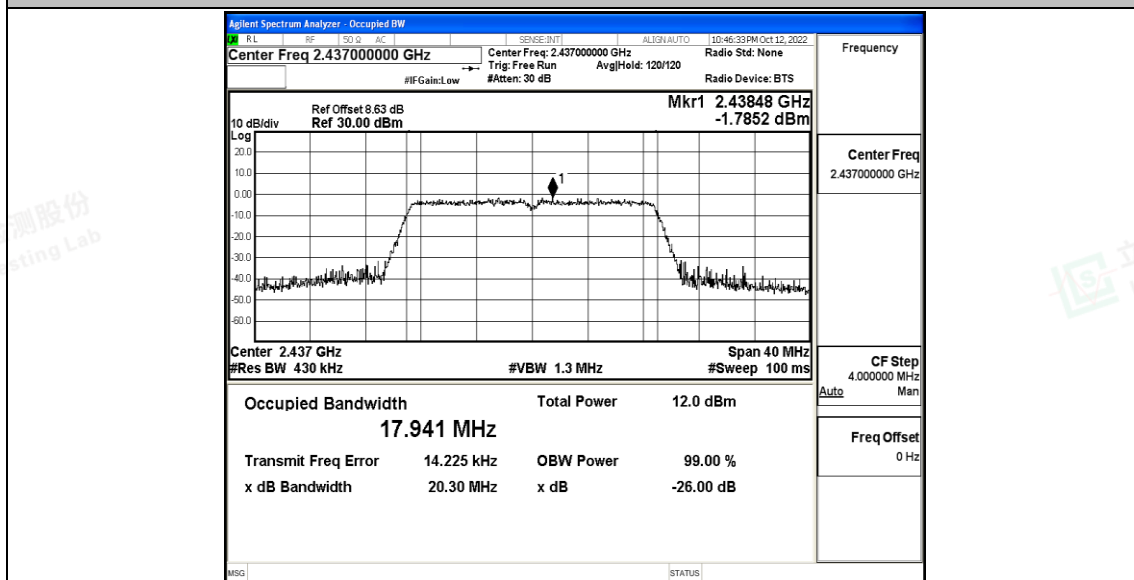
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

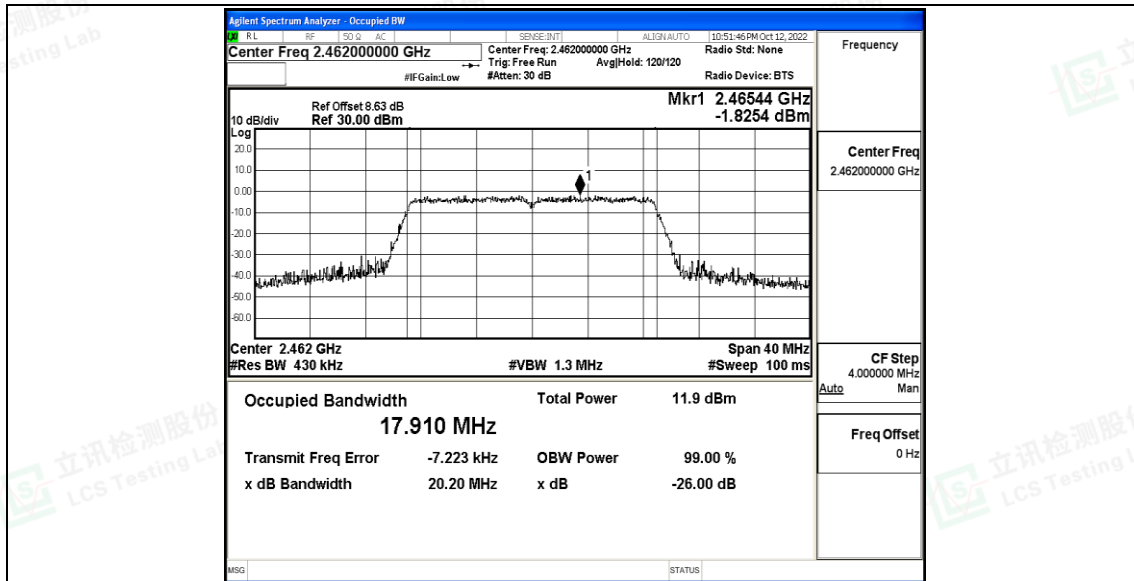


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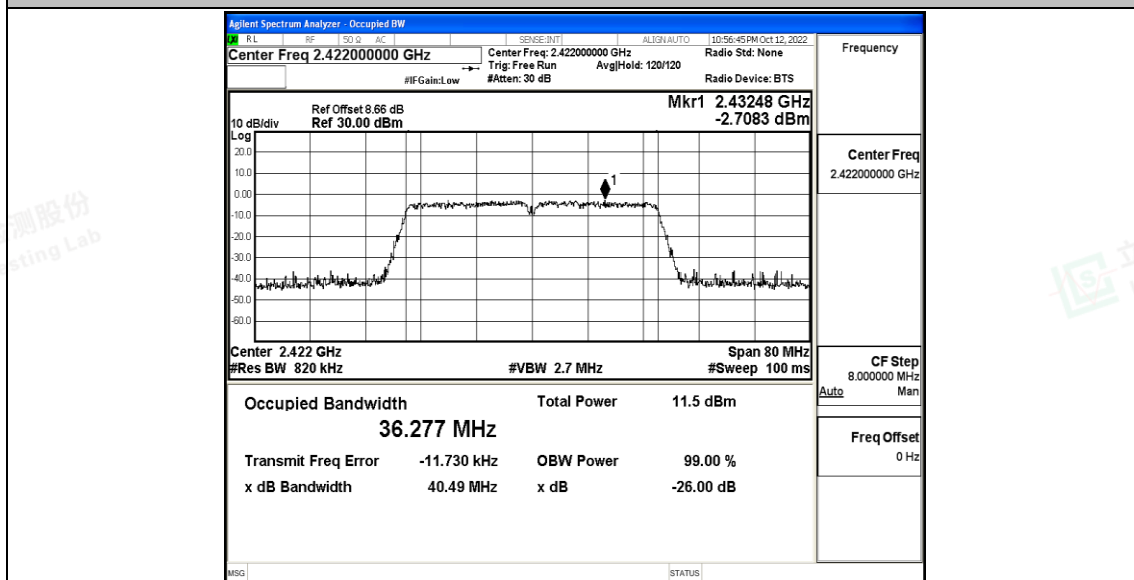
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11N40SISO_Ant_2422



11N40SISO_Ant_2437

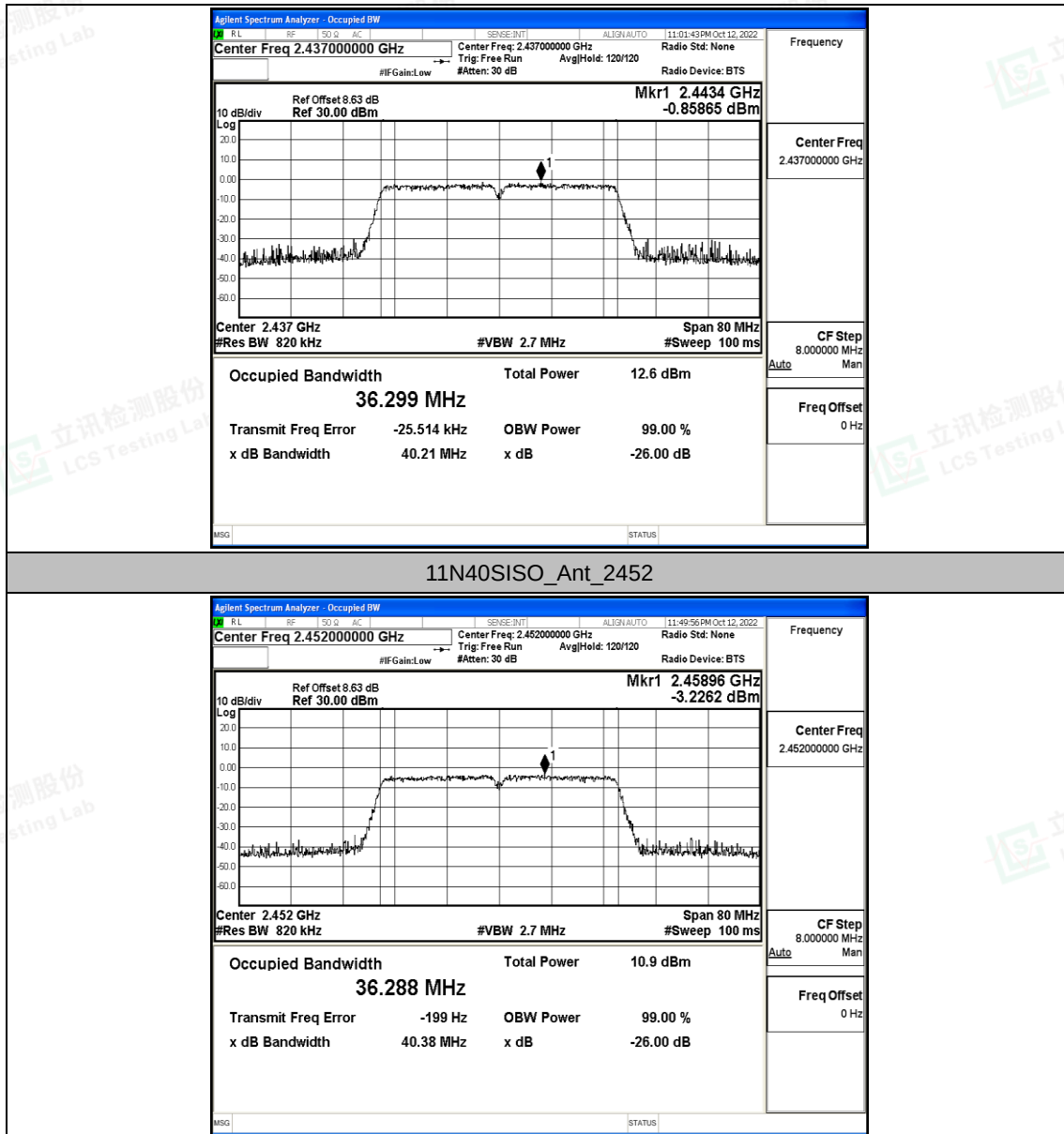


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A.3 Maximum conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant	2412	15.24	≤30.00	PASS
		2437	14.93	≤30.00	PASS
		2462	14.65	≤30.00	PASS
11G	Ant	2412	13.81	≤30.00	PASS
		2437	14.64	≤30.00	PASS
		2462	14.27	≤30.00	PASS
11N20SISO	Ant	2412	14.89	≤30.00	PASS
		2437	14.46	≤30.00	PASS
		2462	14.40	≤30.00	PASS
11N40SISO	Ant	2422	13.55	≤30.00	PASS
		2437	14.63	≤30.00	PASS
		2452	12.89	≤30.00	PASS



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A.4 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant	2412	-12.01	≤8.00	PASS
		2437	-11.76	≤8.00	PASS
		2462	-11.9	≤8.00	PASS
11G	Ant	2412	-19.89	≤8.00	PASS
		2437	-18.85	≤8.00	PASS
		2462	-19.32	≤8.00	PASS
11N20SISO	Ant	2412	-19.6	≤8.00	PASS
		2437	-18.79	≤8.00	PASS
		2462	-19.83	≤8.00	PASS
11N40SISO	Ant	2422	-22.91	≤8.00	PASS
		2437	-22.87	≤8.00	PASS
		2452	-21.93	≤8.00	PASS



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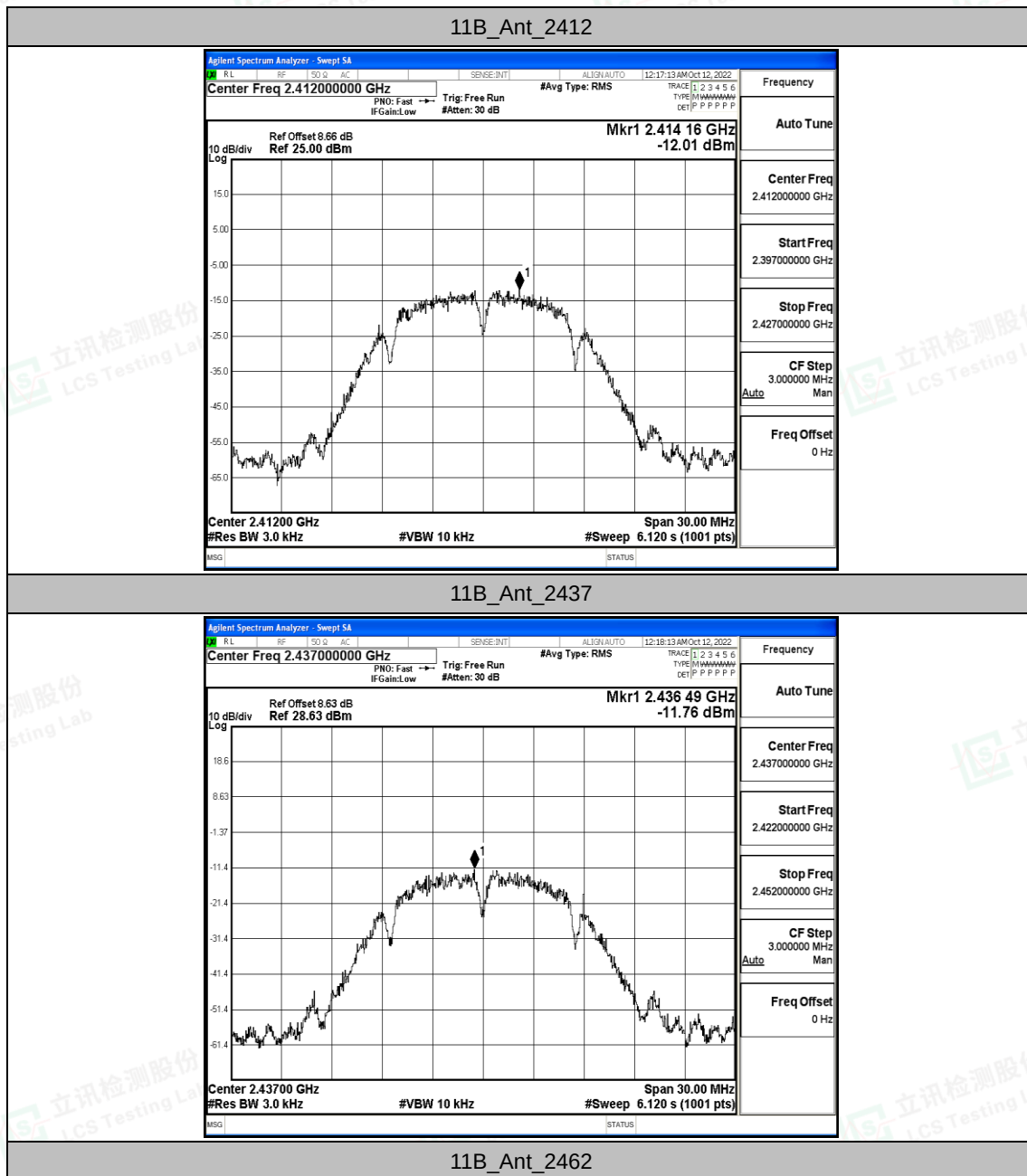
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Test Graphs

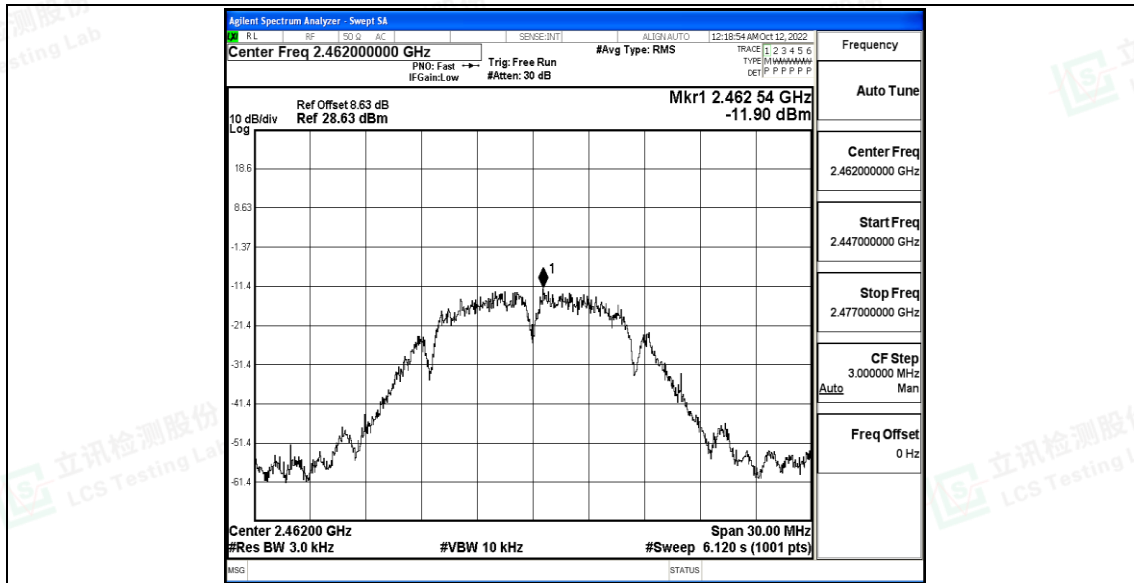


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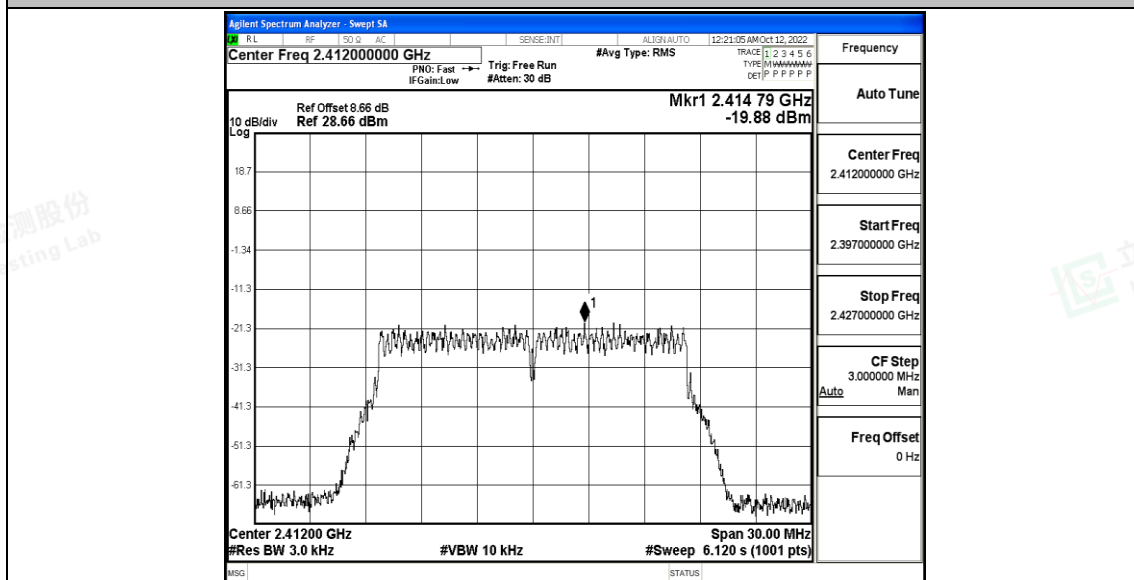
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11G_Ant_2412



11G_Ant_2437

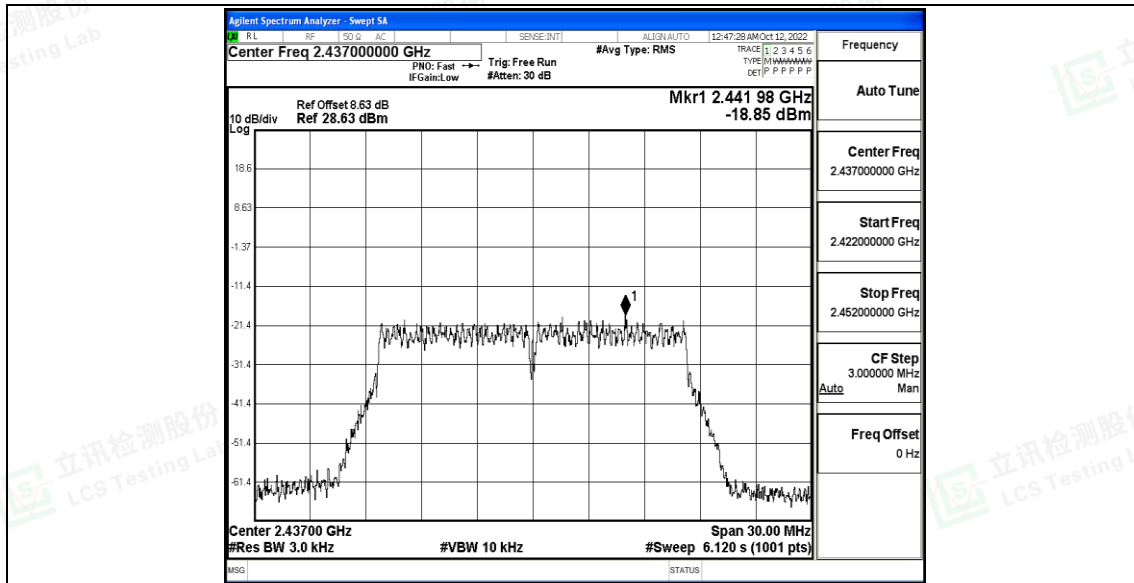


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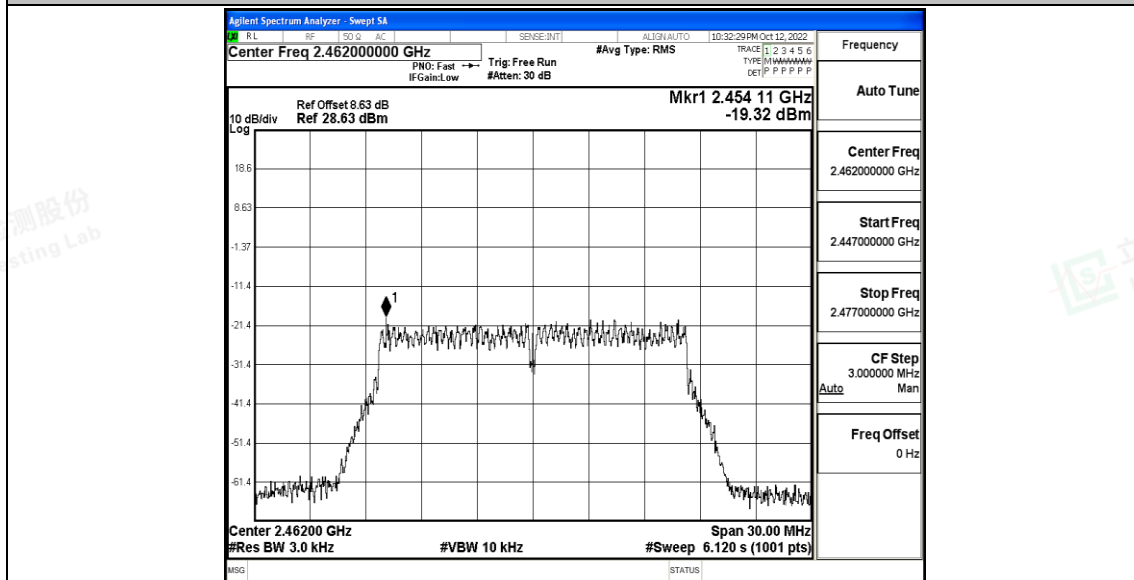
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11G_Ant_2462



11N20SISO_Ant_2412

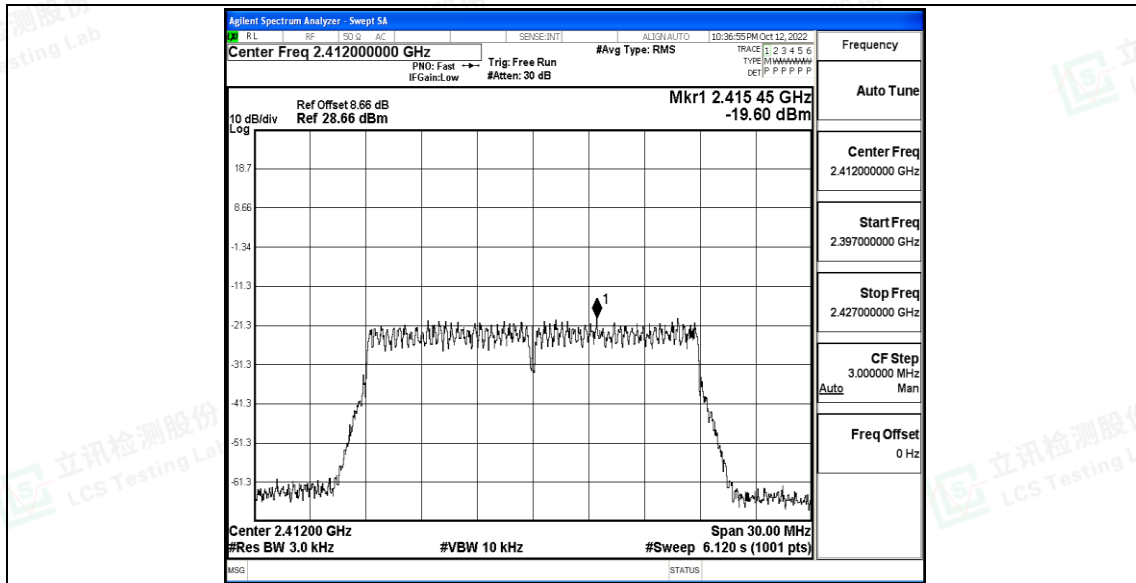


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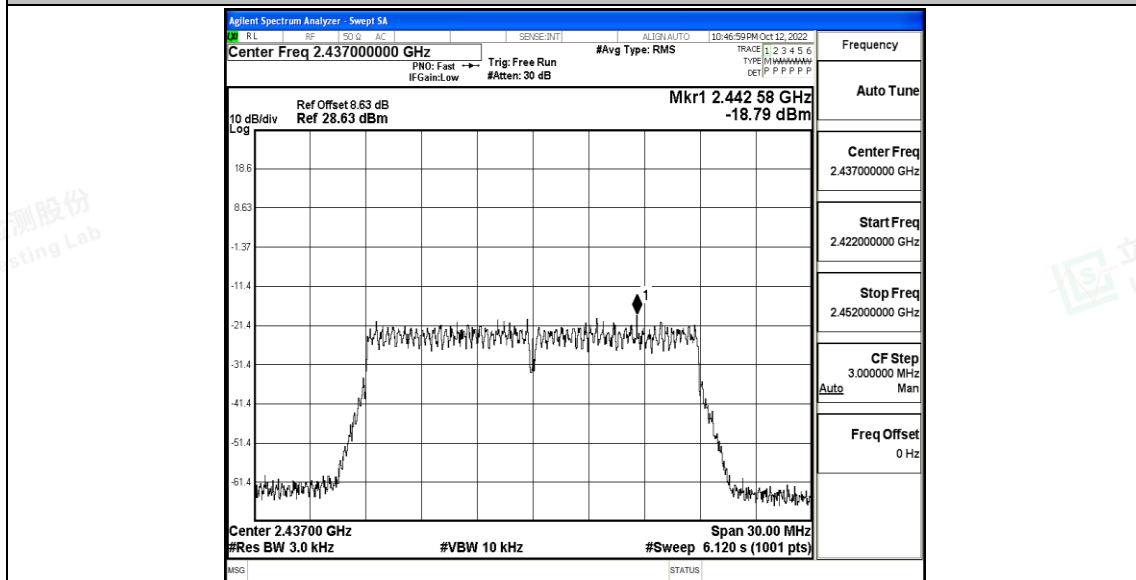
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

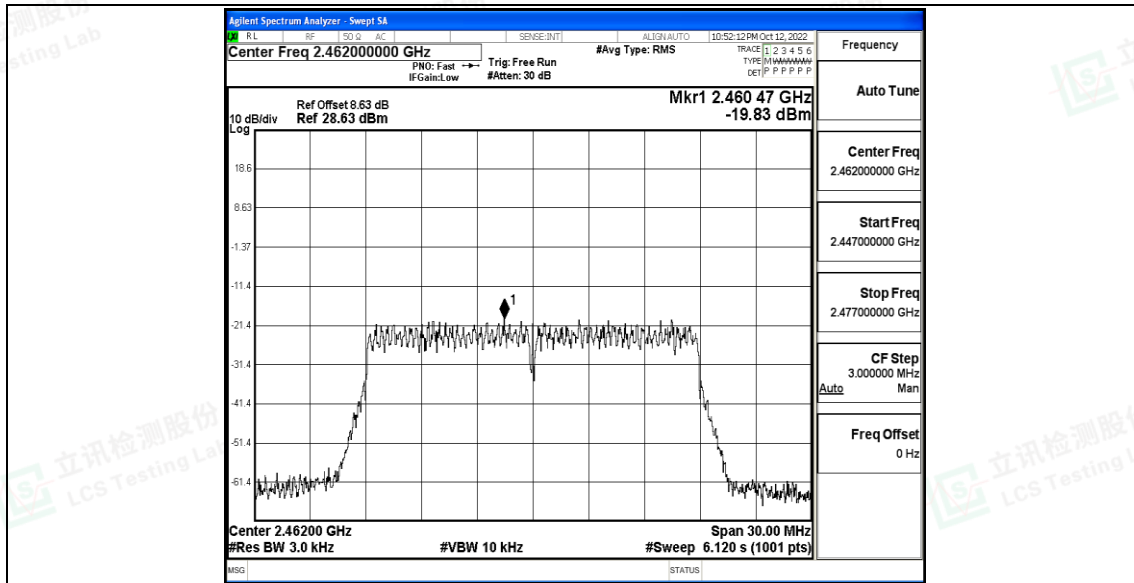


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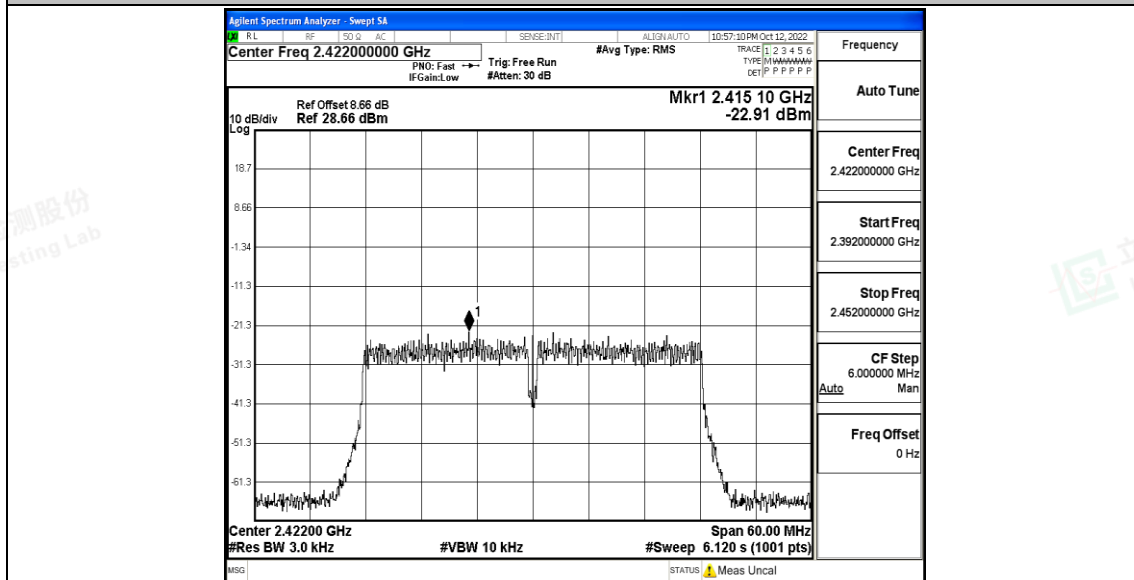
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11N40SISO_Ant_2422



11N40SISO_Ant_2437

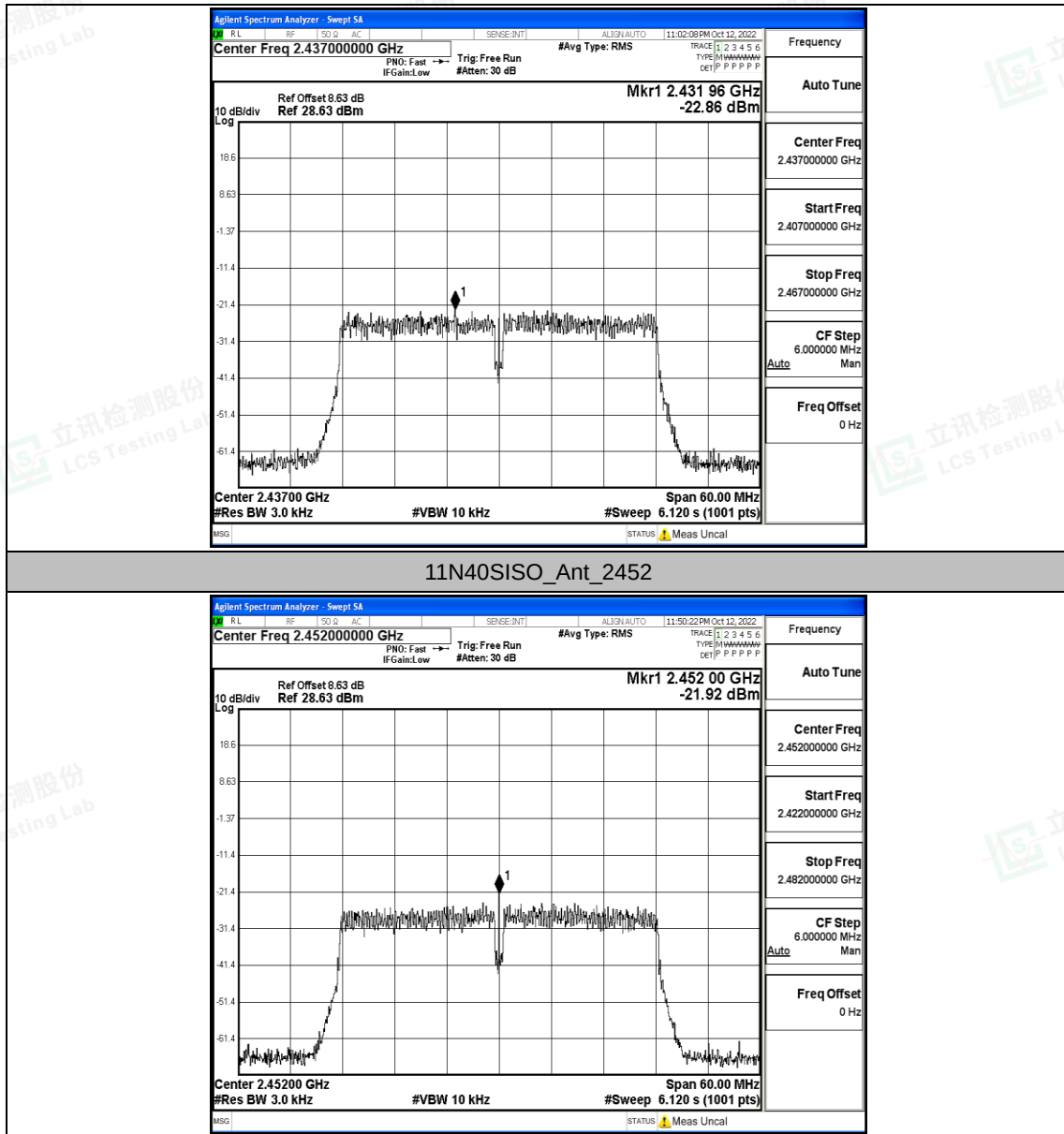


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A.5 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	0.40	-45.19	≤ -19.6	PASS
		High	2462	-1.90	-48.64	≤ -21.9	PASS
11G	Ant	Low	2412	-5.86	-44.3	≤ -25.86	PASS
		High	2462	-5.17	-48.32	≤ -25.17	PASS
11N20SISO	Ant	Low	2412	-4.21	-42.32	≤ -24.21	PASS
		High	2462	-4.77	-48.25	≤ -24.77	PASS
11N40SISO	Ant	Low	2422	-8.54	-45.94	≤ -28.54	PASS
		High	2452	-9.37	-46.65	≤ -29.37	PASS



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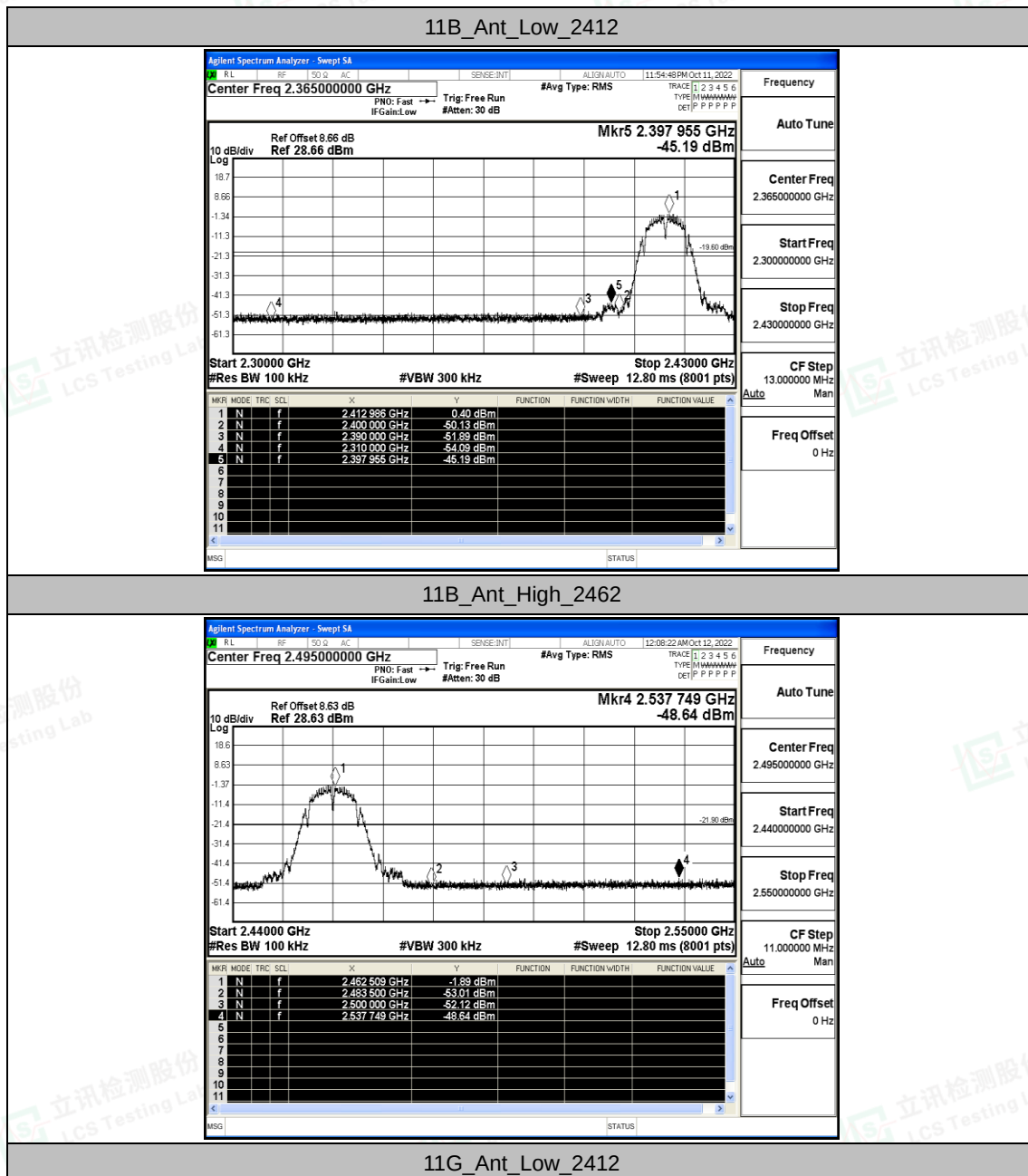
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Test Graphs

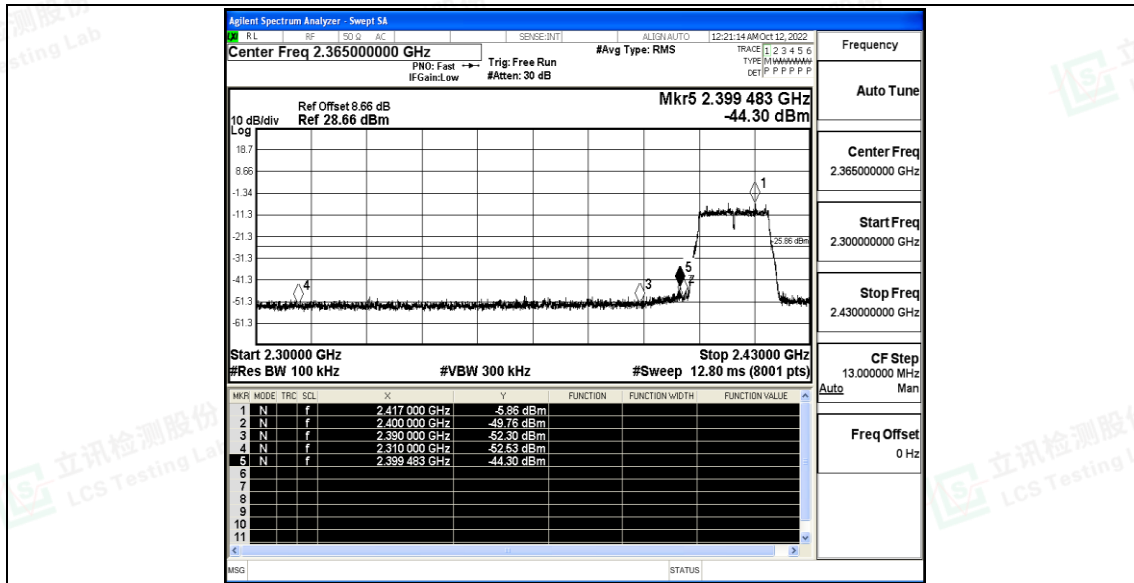


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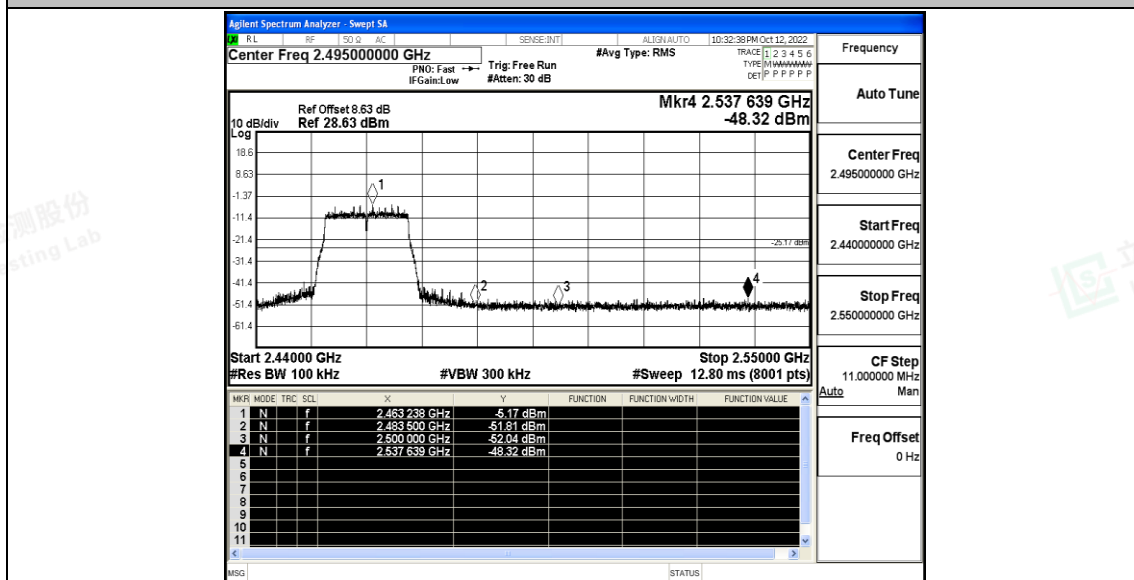
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11G_Ant_High_2462



11N20SISO_Ant_Low_2412

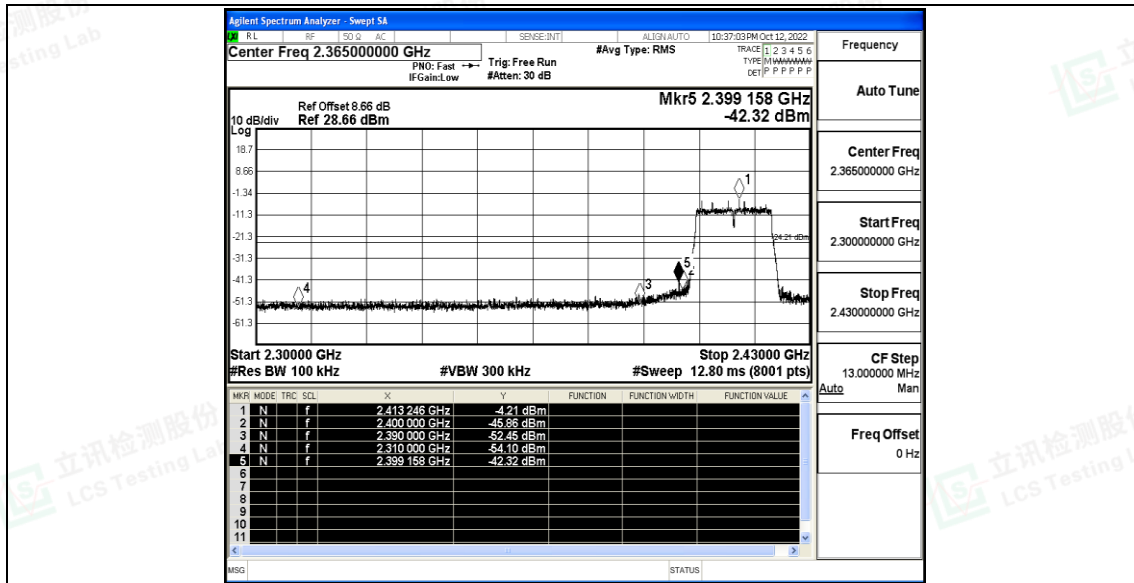


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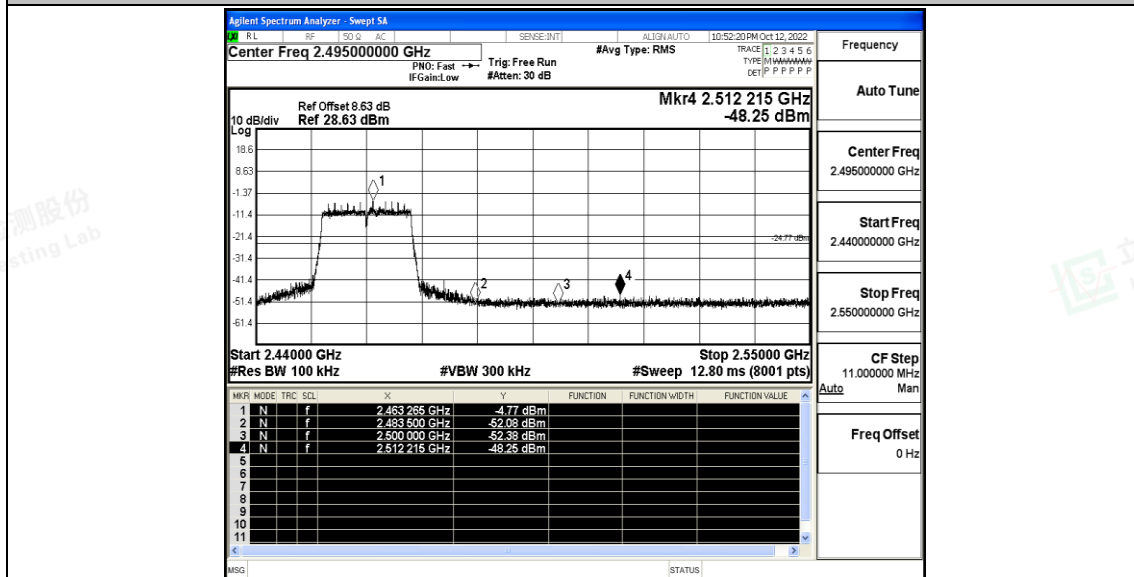
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11N20SISO_Ant_High_2462



11N40SISO_Ant_Low_2422

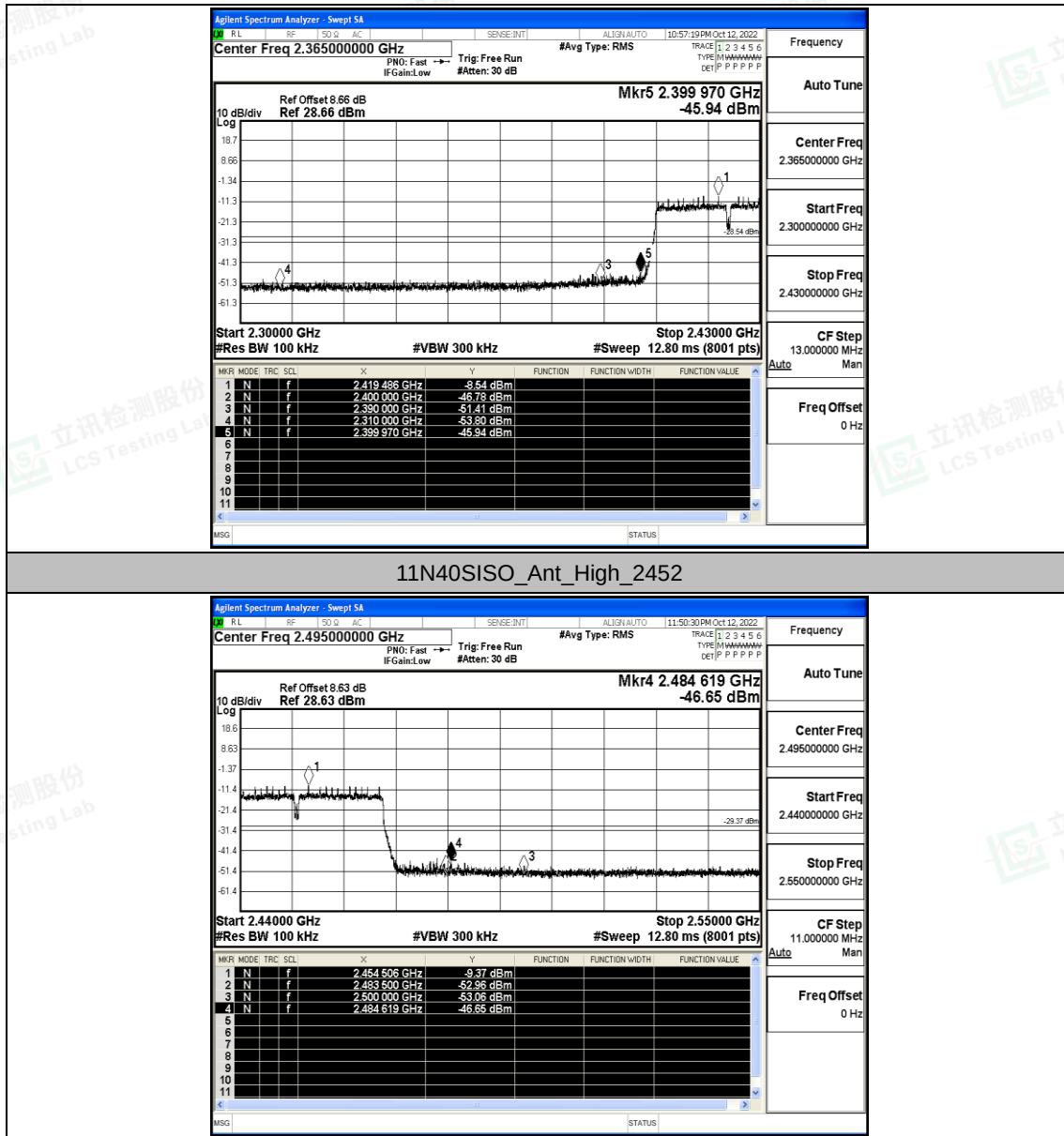


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A.6 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-60.09	≤-20.8	PASS
			1000~26500	-0.80	-46.02	≤-20.8	PASS
		2437	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-60.85	≤-21.92	PASS
			1000~26500	-1.92	-46.06	≤-21.92	PASS
		2462	Reference	-2.19	-2.19	---	PASS
			30~1000	-2.19	-60.34	≤-22.19	PASS
			1000~26500	-2.19	-46.15	≤-22.19	PASS
11G	Ant	2412	Reference	-5.97	-5.97	---	PASS
			30~1000	-5.97	-60.45	≤-25.97	PASS
			1000~26500	-5.97	-46.32	≤-25.97	PASS
		2437	Reference	-6.79	-6.79	---	PASS
			30~1000	-6.79	-57.83	≤-26.79	PASS
			1000~26500	-6.79	-46.42	≤-26.79	PASS
		2462	Reference	-5.76	-5.76	---	PASS
			30~1000	-5.76	-60.88	≤-25.76	PASS
			1000~26500	-5.76	-46.11	≤-25.76	PASS
11N20SISO	Ant	2412	Reference	-4.58	-4.58	---	PASS
			30~1000	-4.58	-61.01	≤-24.58	PASS
			1000~26500	-4.58	-46.65	≤-24.58	PASS
		2437	Reference	-8.00	-8.00	---	PASS
			30~1000	-8.00	-60.44	≤-28	PASS
			1000~26500	-8.00	-45.87	≤-28	PASS
		2462	Reference	-8.33	-8.33	---	PASS
			30~1000	-8.33	-61.25	≤-28.33	PASS
			1000~26500	-8.33	-46.14	≤-28.33	PASS
11N40SISO	Ant	2422	Reference	-8.88	-8.88	---	PASS
			30~1000	-8.88	-60.66	≤-28.88	PASS
			1000~26500	-8.88	-46.03	≤-28.88	PASS
		2437	Reference	-10.14	-10.14	---	PASS
			30~1000	-10.14	-60.97	≤-30.14	PASS
			1000~26500	-10.14	-45.8	≤-30.14	PASS
		2452	Reference	-10.84	-10.84	---	PASS
			30~1000	-10.84	-60.77	≤-30.84	PASS



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Scan code to check authenticity

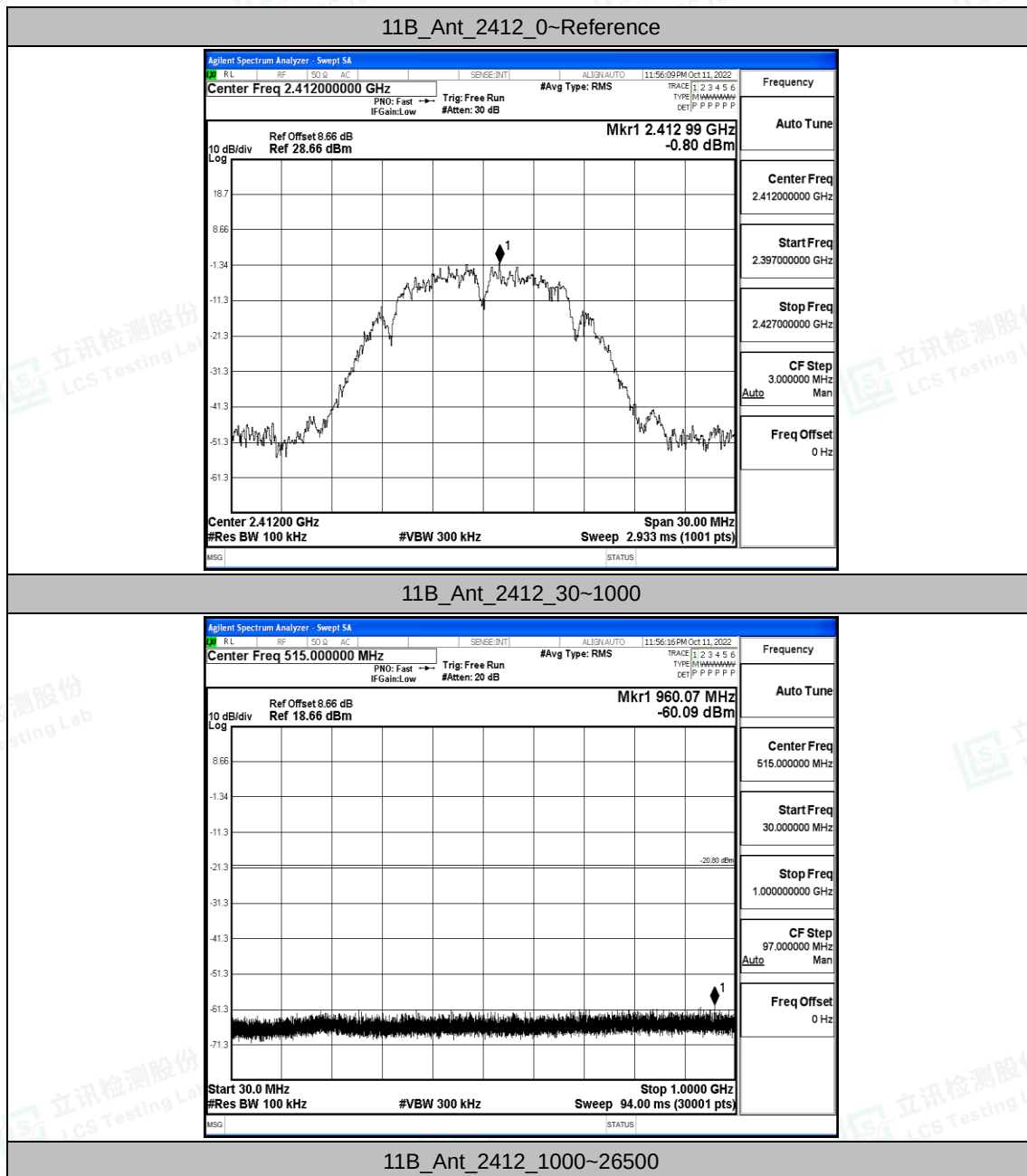


			1000~26500	-10.84	-45.98	≤-30.84	PASS
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Test Graphs

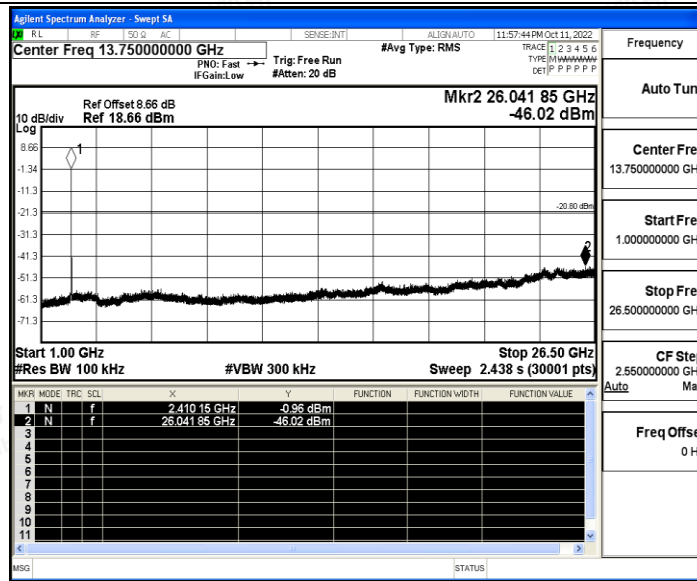


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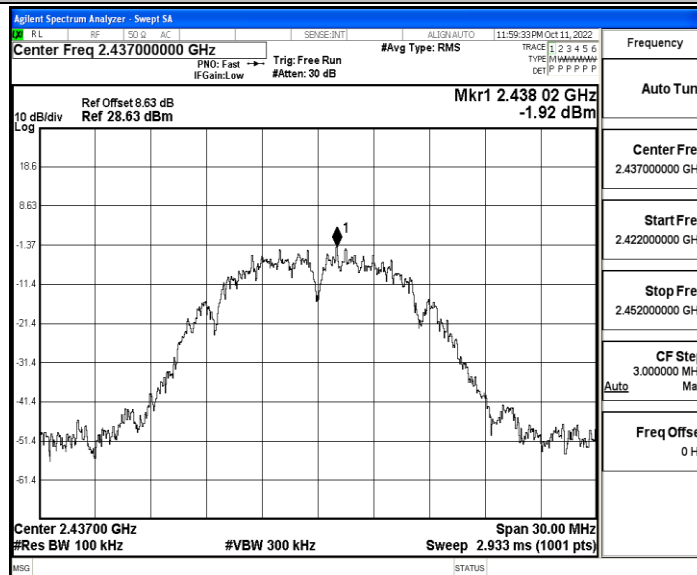
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11B_Ant_2437_0~Reference



11B_Ant_2437_30~1000

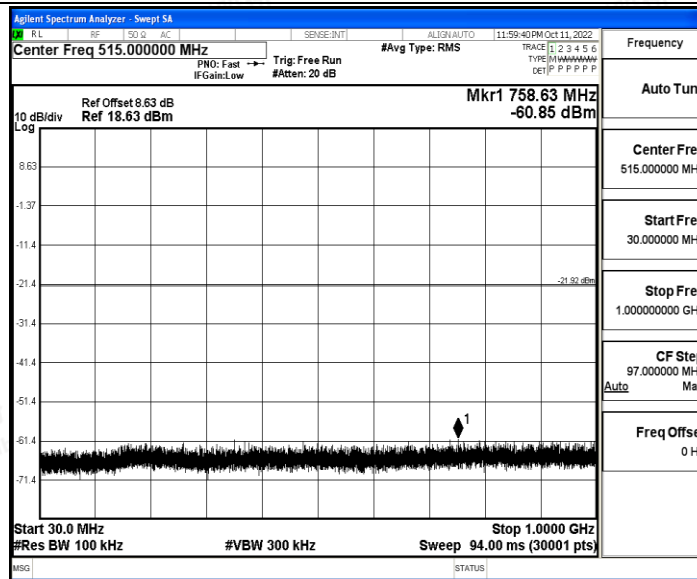


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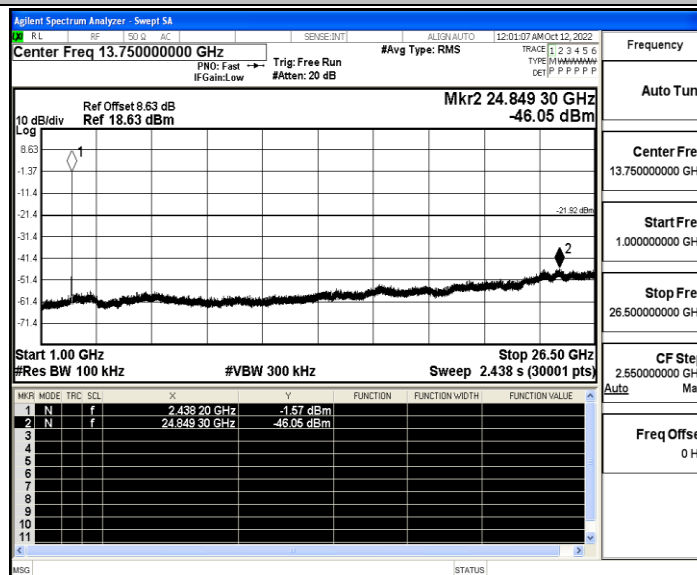
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11B_Ant_2437_1000~26500



11B_Ant_2462_0~Reference

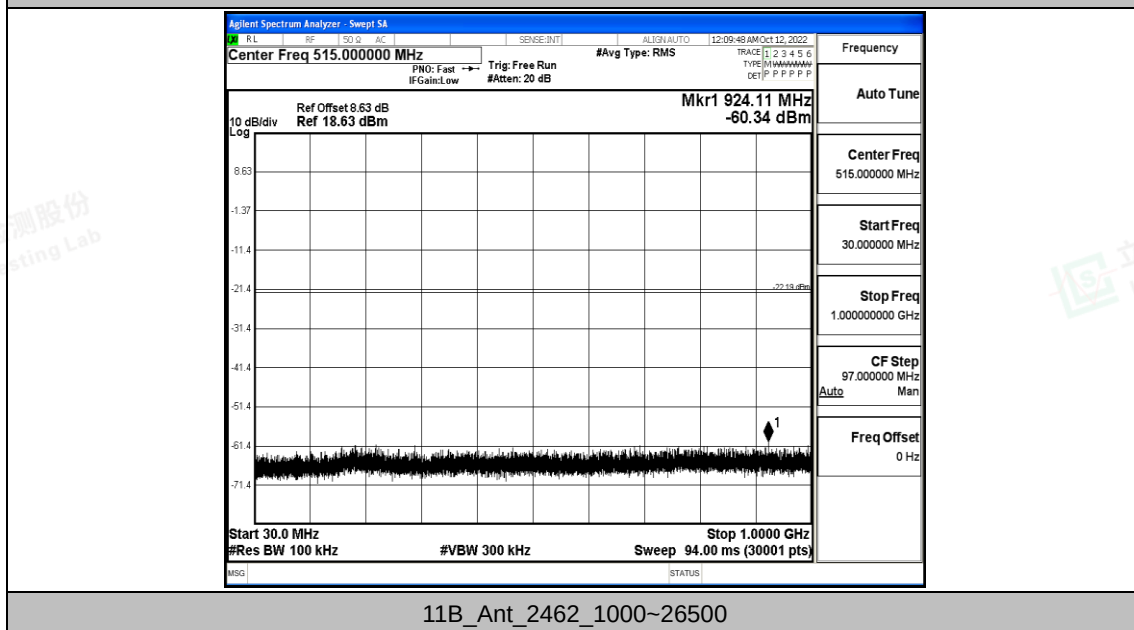
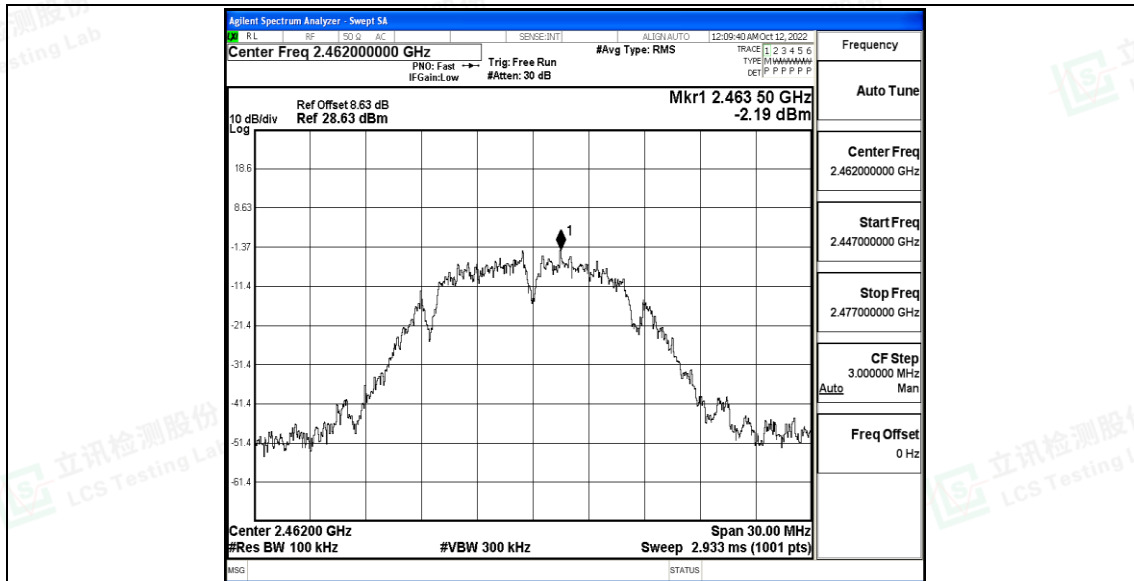


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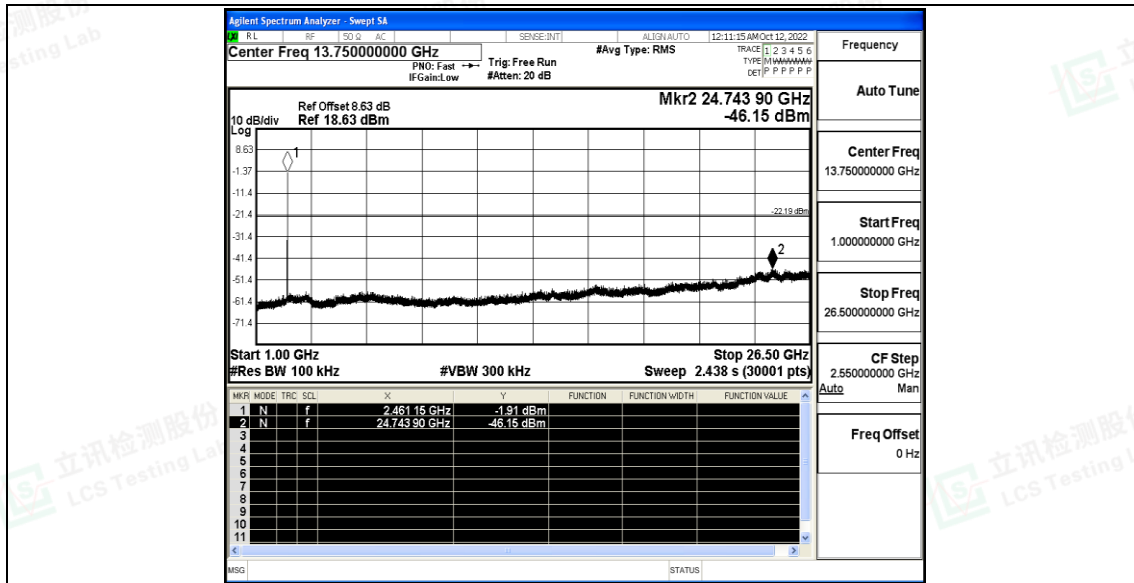


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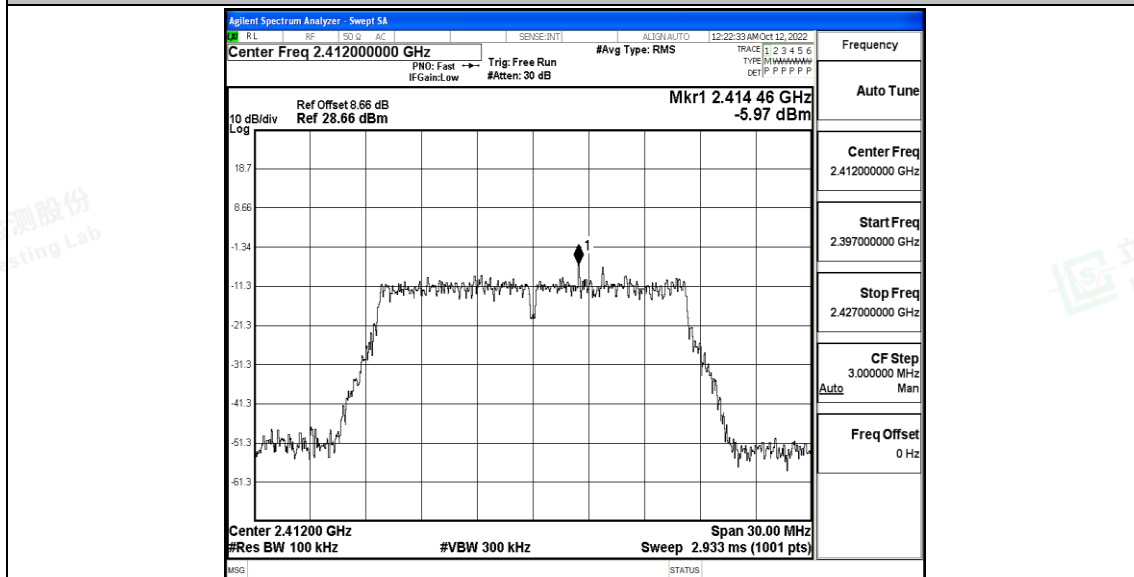
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11G_Ant_2412_0~Reference



11G_Ant_2412_30~1000



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