



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: HOME THEATER PROJECTOR

Test Model: M-508A

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mening Su
Supervised by:	Li Huan



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A.1 DTS Bandwidth

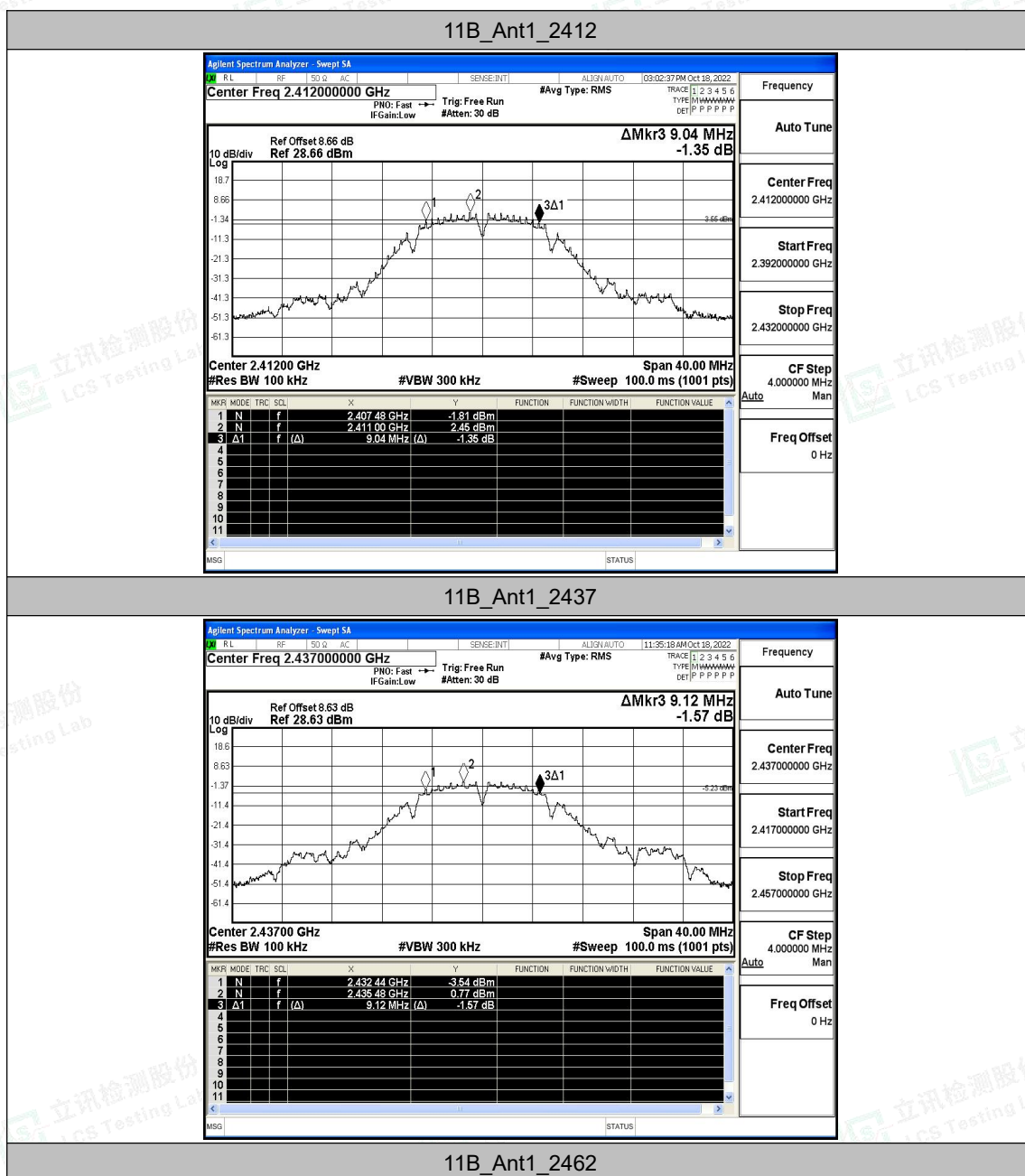
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	0.5	PASS
		2437	9.120	2432.440	2441.560	0.5	PASS
		2462	9.400	2457.280	2466.680	0.5	PASS
11G	Ant1	2412	15.640	2404.120	2419.760	0.5	PASS
		2437	15.080	2429.440	2444.520	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.880	2404.480	2420.360	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.080	2454.440	2469.520	0.5	PASS



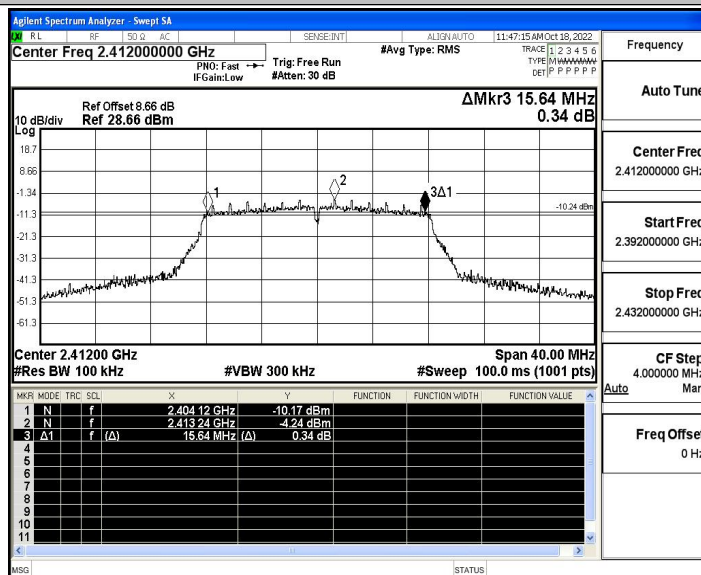


Test Graphs



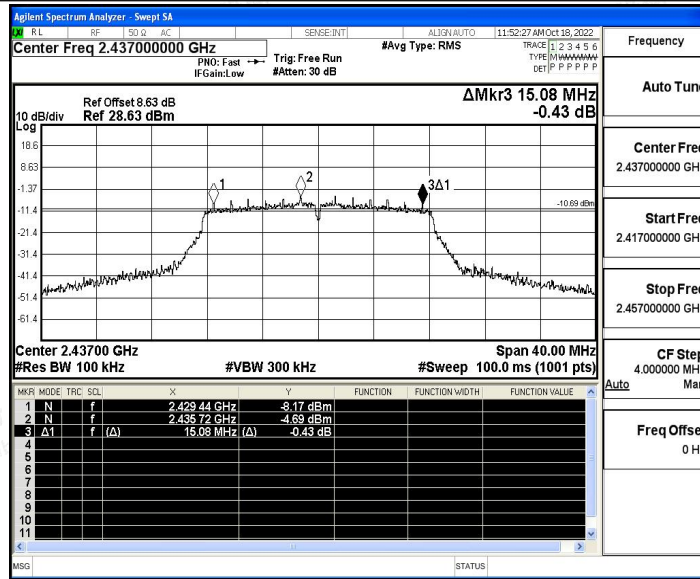


11G_Ant1_2412

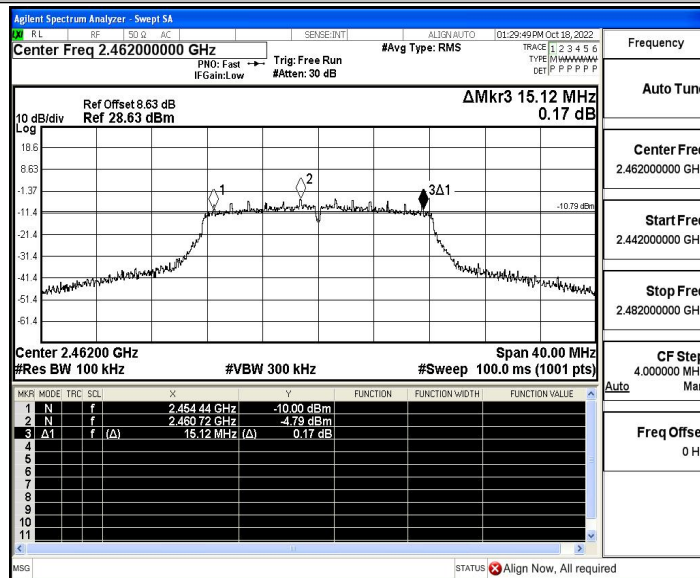


11G_Ant1_2437



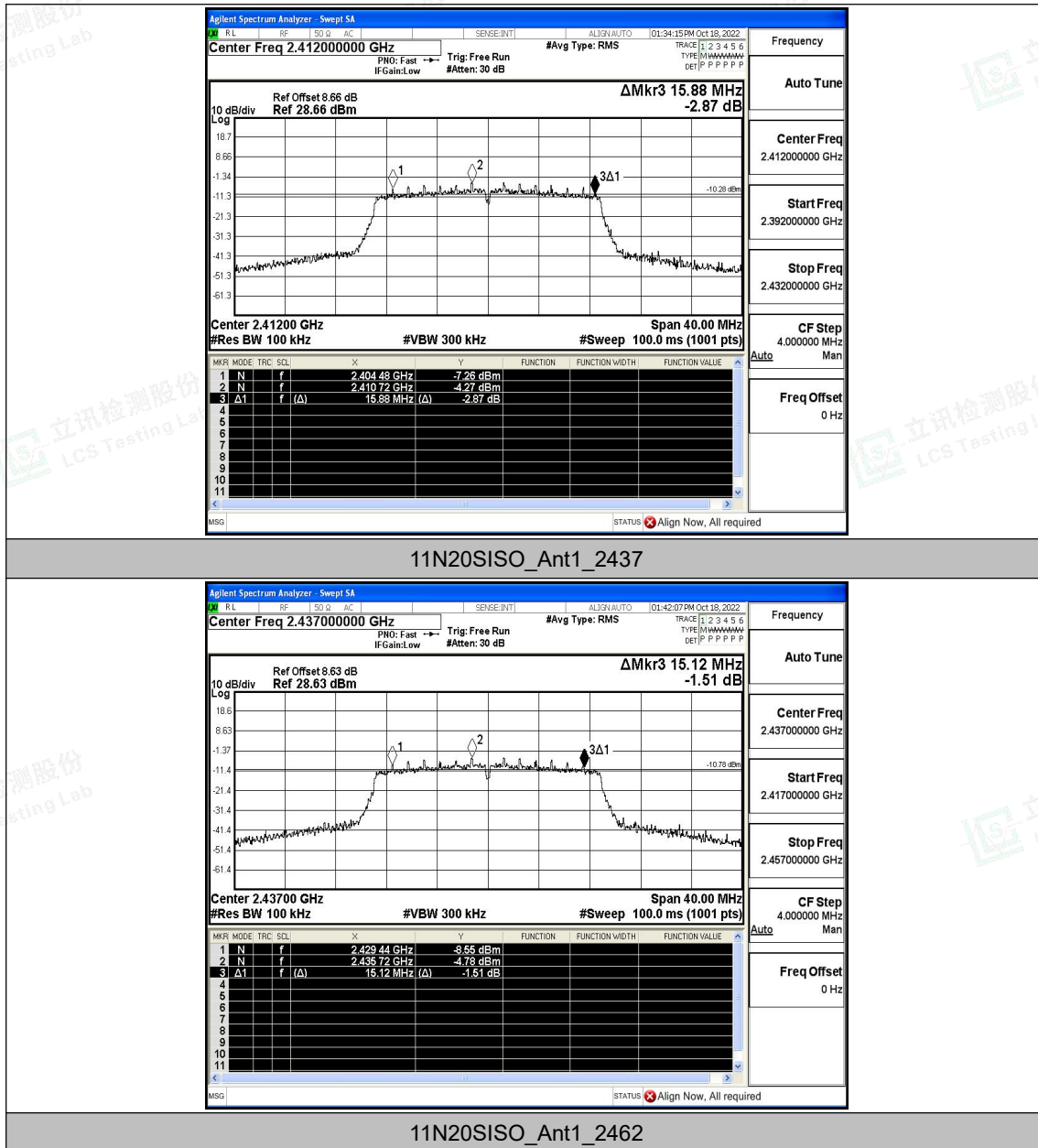


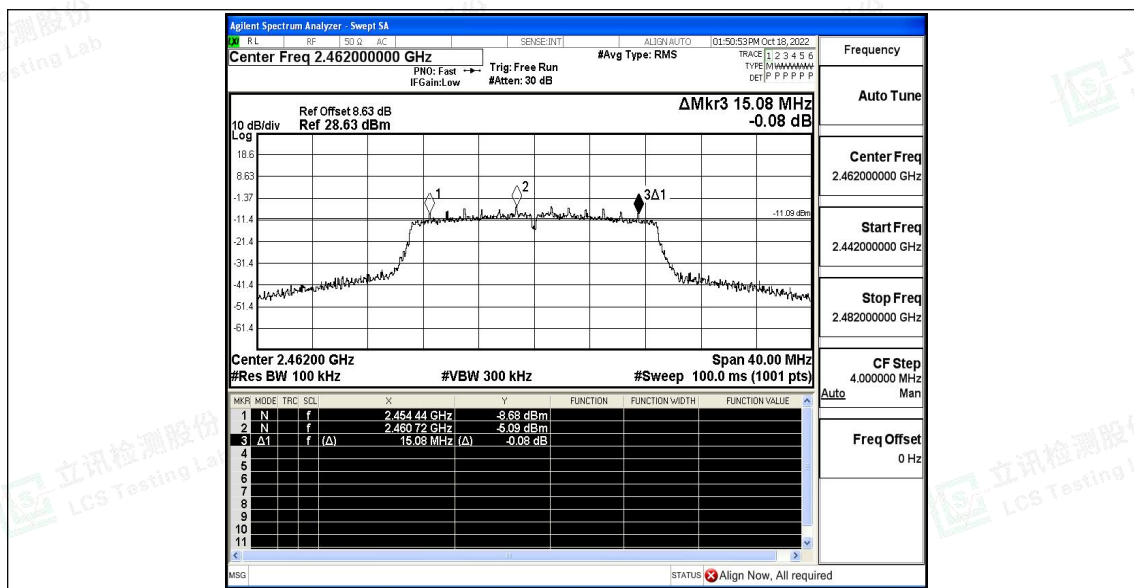
11G_Ant1_2462



11N20SISO_Ant1_2412









A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	14.01	≤30.00	PASS
		2437	14.38	≤30.00	PASS
		2462	14.20	≤30.00	PASS
11G	Ant1	2412	14.53	≤30.00	PASS
		2437	13.91	≤30.00	PASS
		2462	13.89	≤30.00	PASS
11N20SISO	Ant1	2412	14.32	≤30.00	PASS
		2437	13.77	≤30.00	PASS
		2462	13.44	≤30.00	PASS





A.3 Maximum power spectral density

Test Result

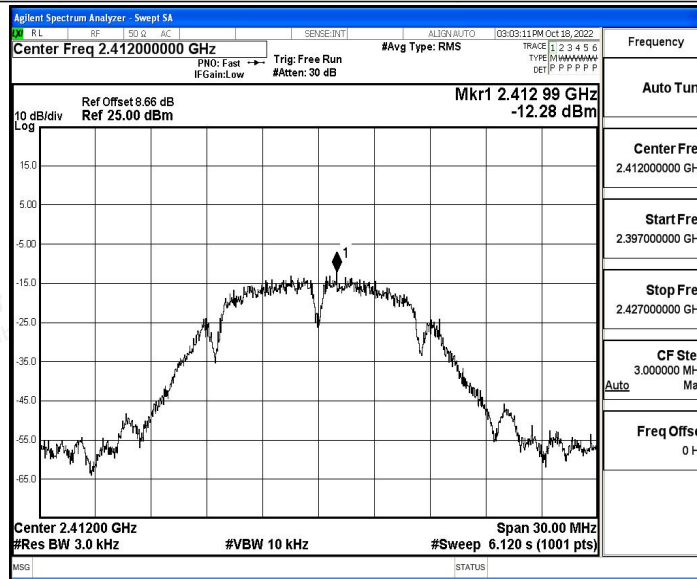
TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-12.28	≤8.00	PASS
		2437	-17.45	≤8.00	PASS
		2462	-17.68	≤8.00	PASS
11G	Ant1	2412	-19.03	≤8.00	PASS
		2437	-18.46	≤8.00	PASS
		2462	-19.56	≤8.00	PASS
11N20SISO	Ant1	2412	-18.98	≤8.00	PASS
		2437	-19.81	≤8.00	PASS
		2462	-19.74	≤8.00	PASS



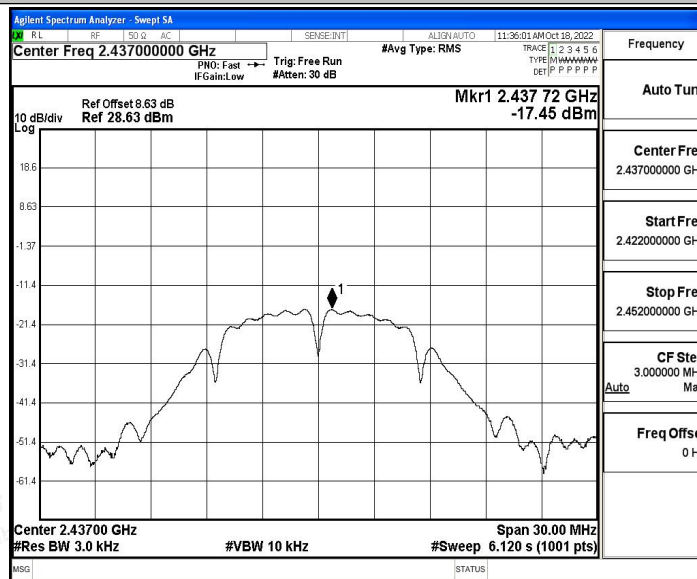


Test Graphs

11B_Ant1_2412

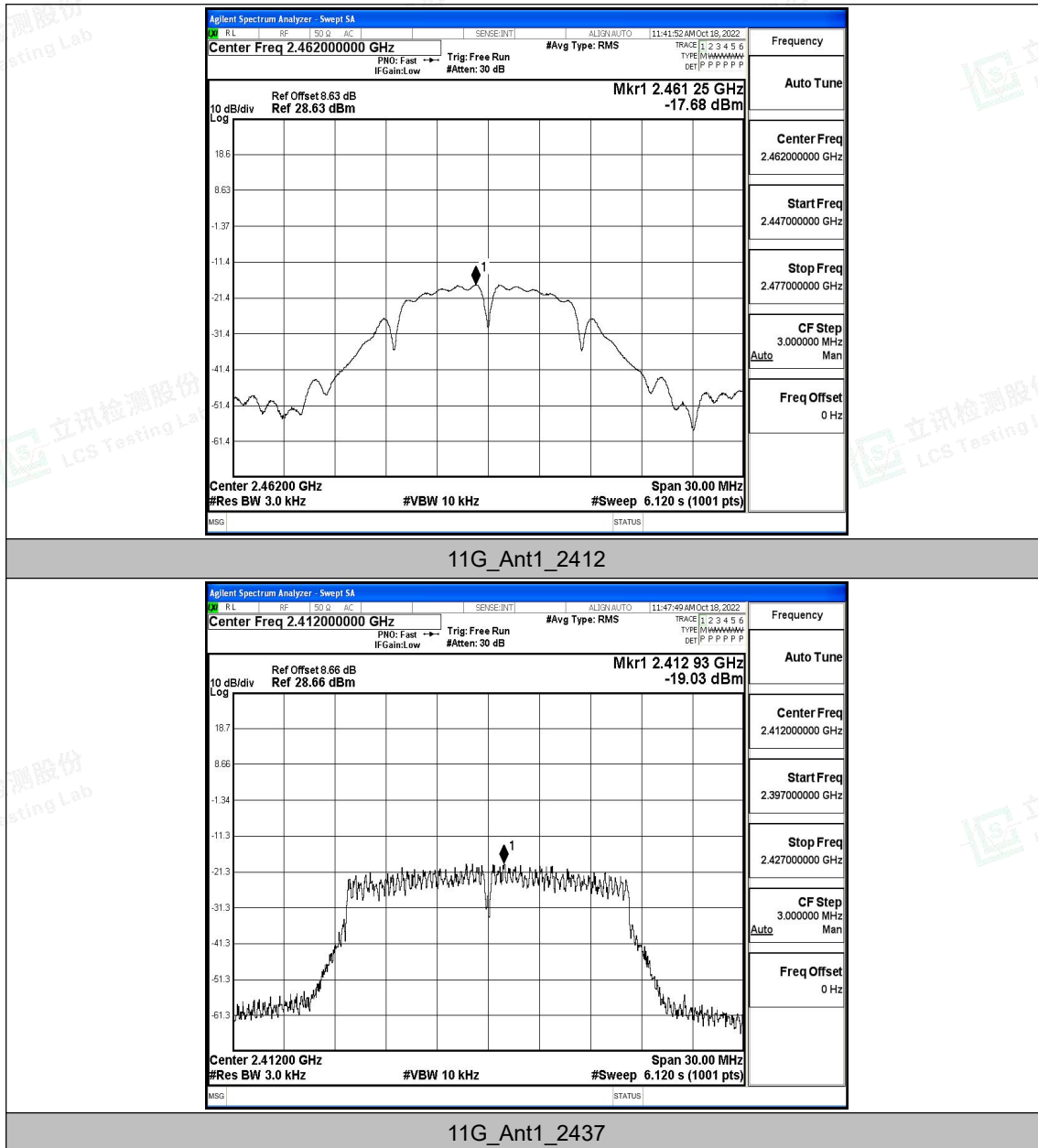


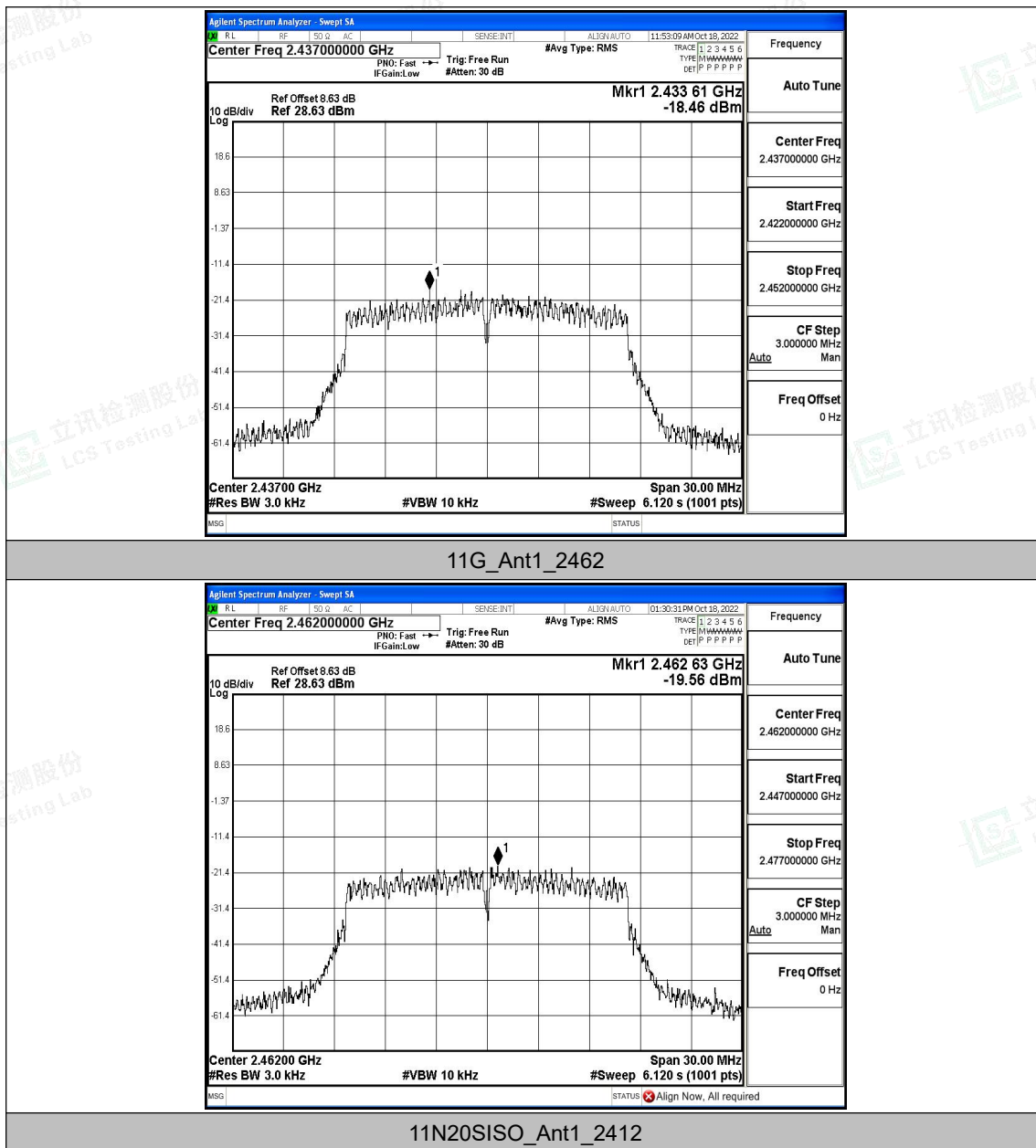
11B_Ant1_2437

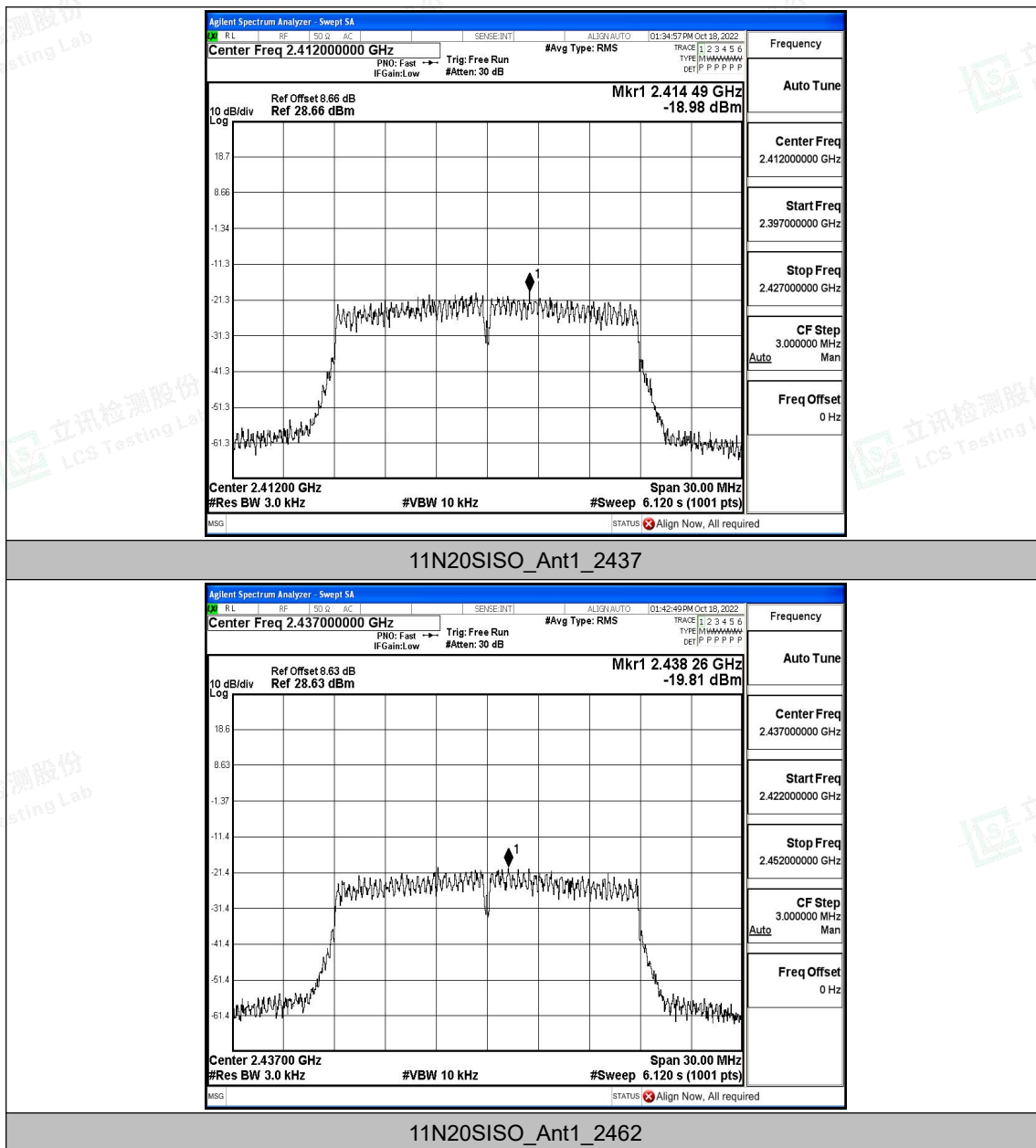


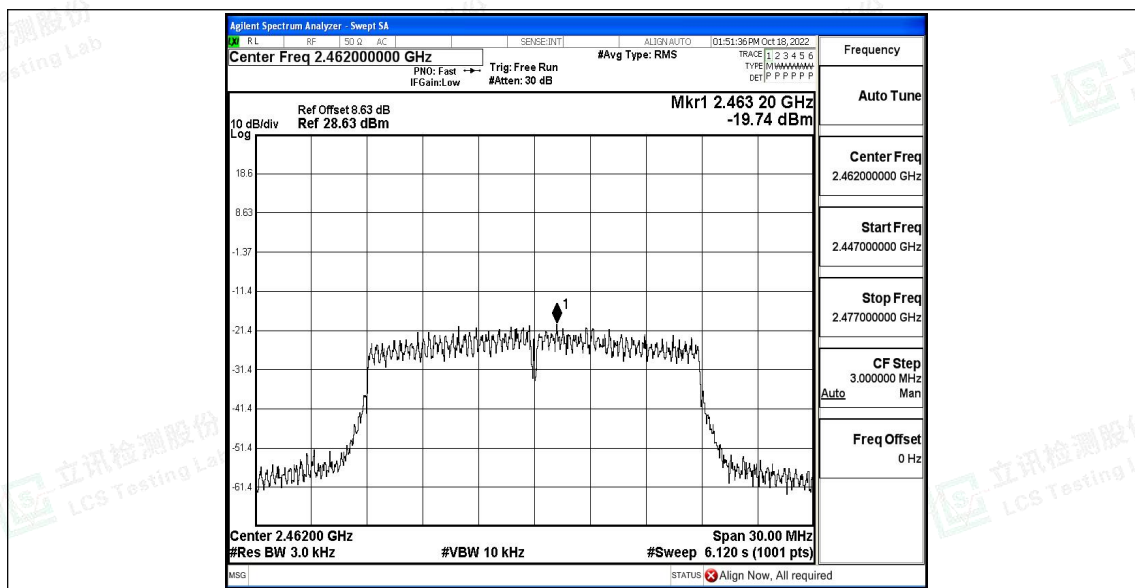
11B_Ant1_2462













A.4 Band edge measurements

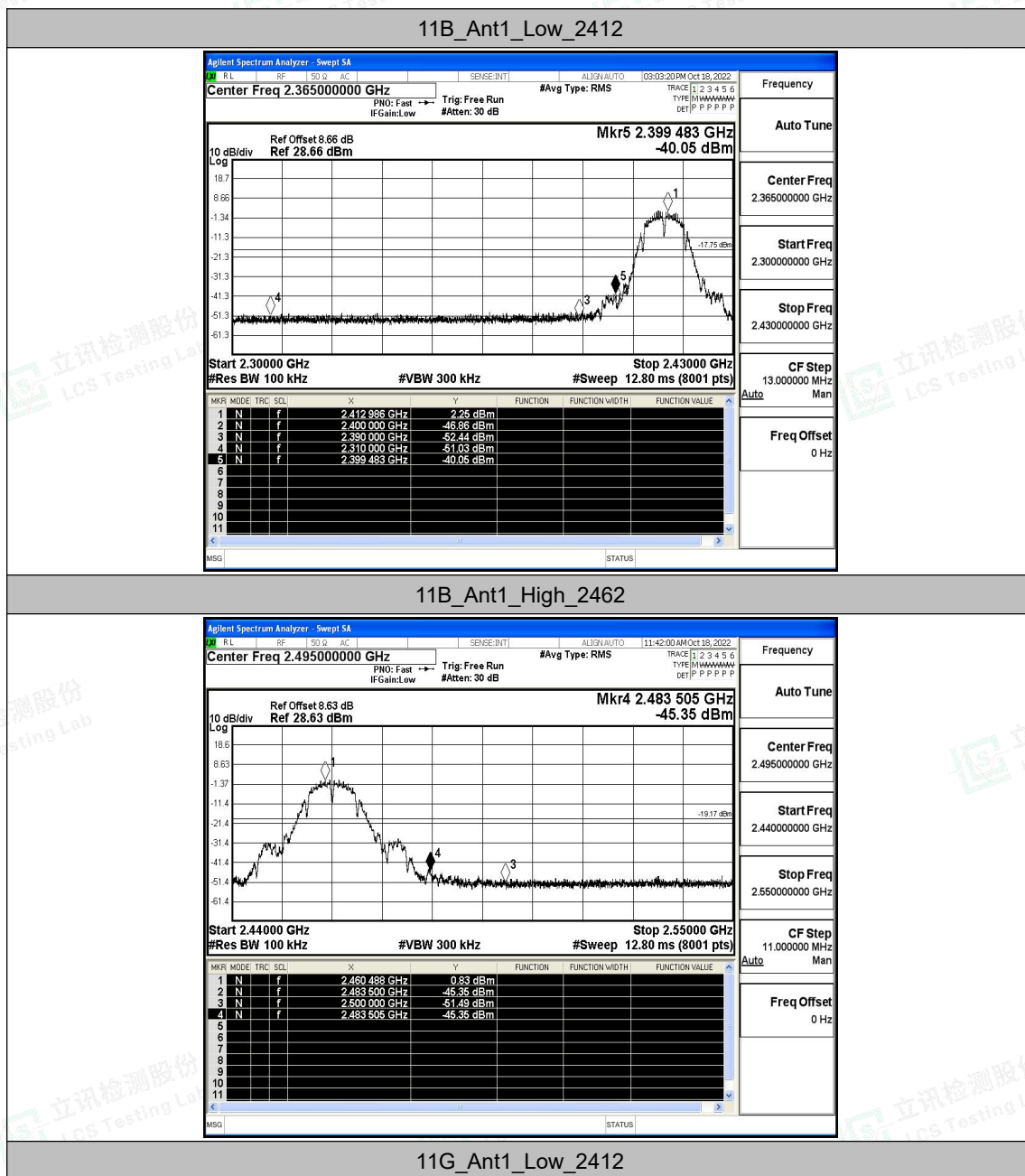
Test Result

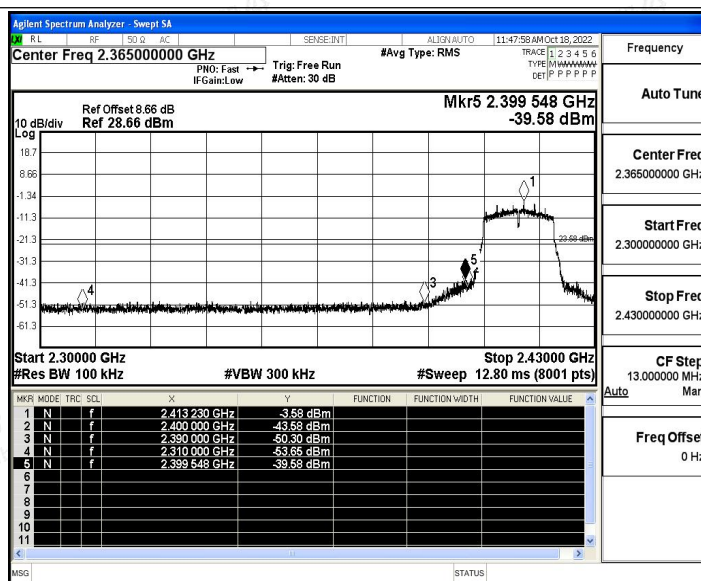
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.25	-40.05	≤ -17.75	PASS
		High	2462	0.83	-45.35	≤ -19.17	PASS
11G	Ant1	Low	2412	-3.58	-39.59	≤ -23.58	PASS
		High	2462	-4.17	-47.77	≤ -24.17	PASS
11N20SISO	Ant1	Low	2412	-5.45	-41	≤ -25.45	PASS
		High	2462	-5.71	-47.22	≤ -25.71	PASS



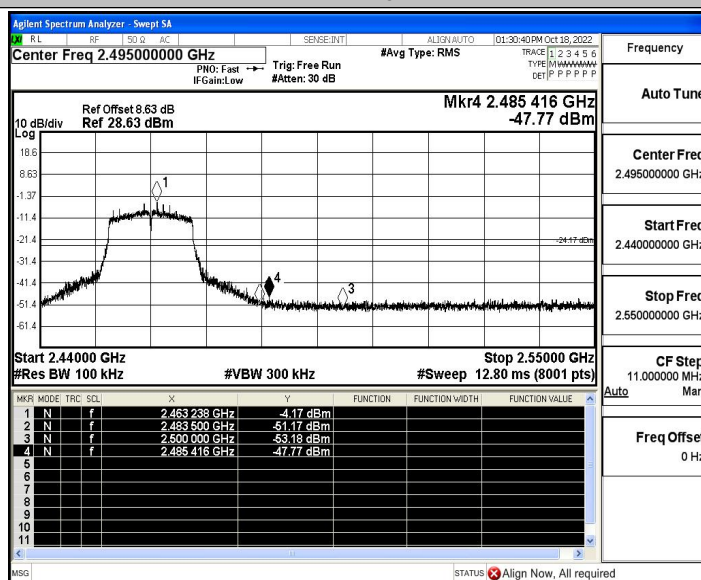


Test Graphs





11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

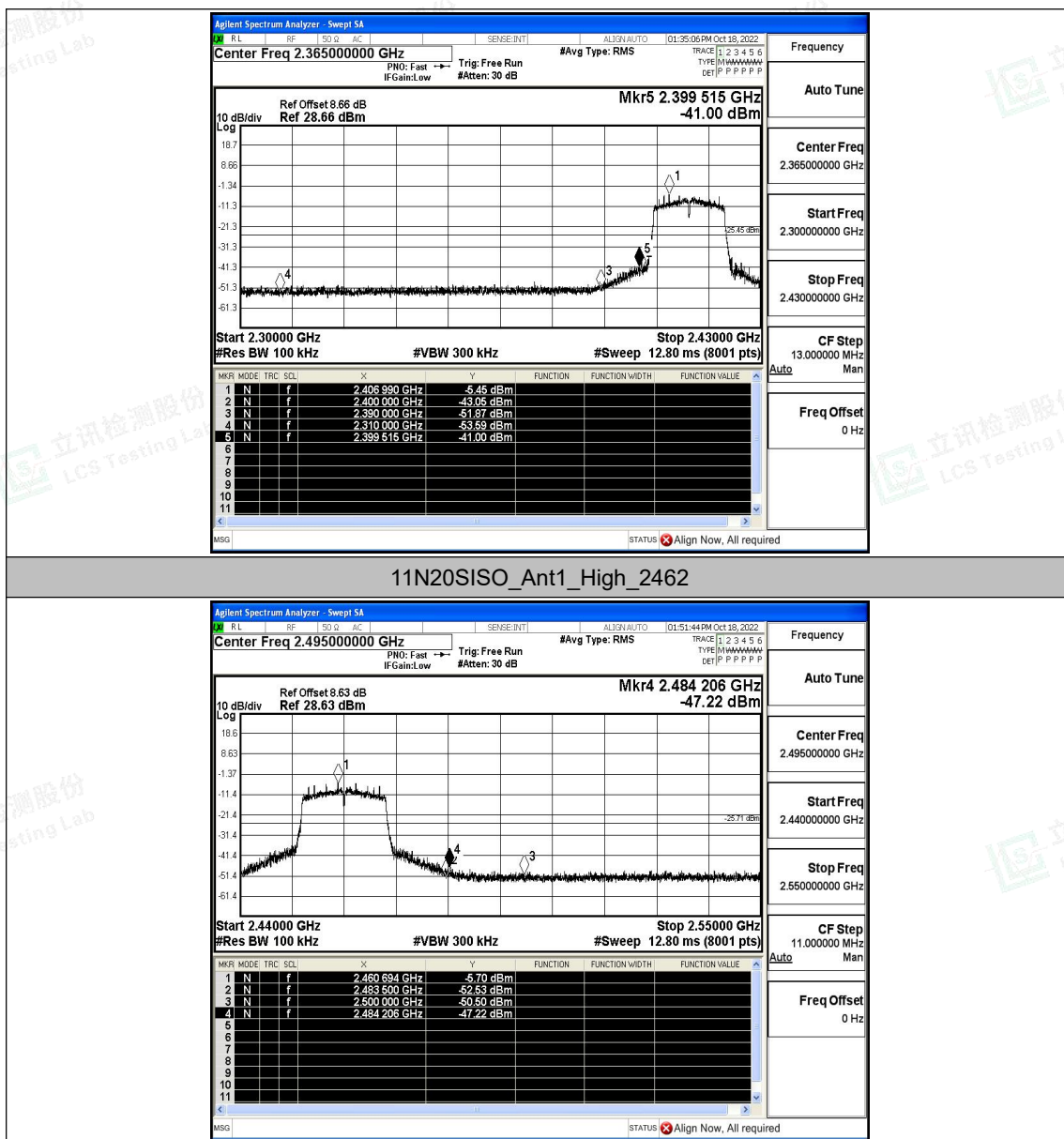


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A.5 Conducted Spurious Emission

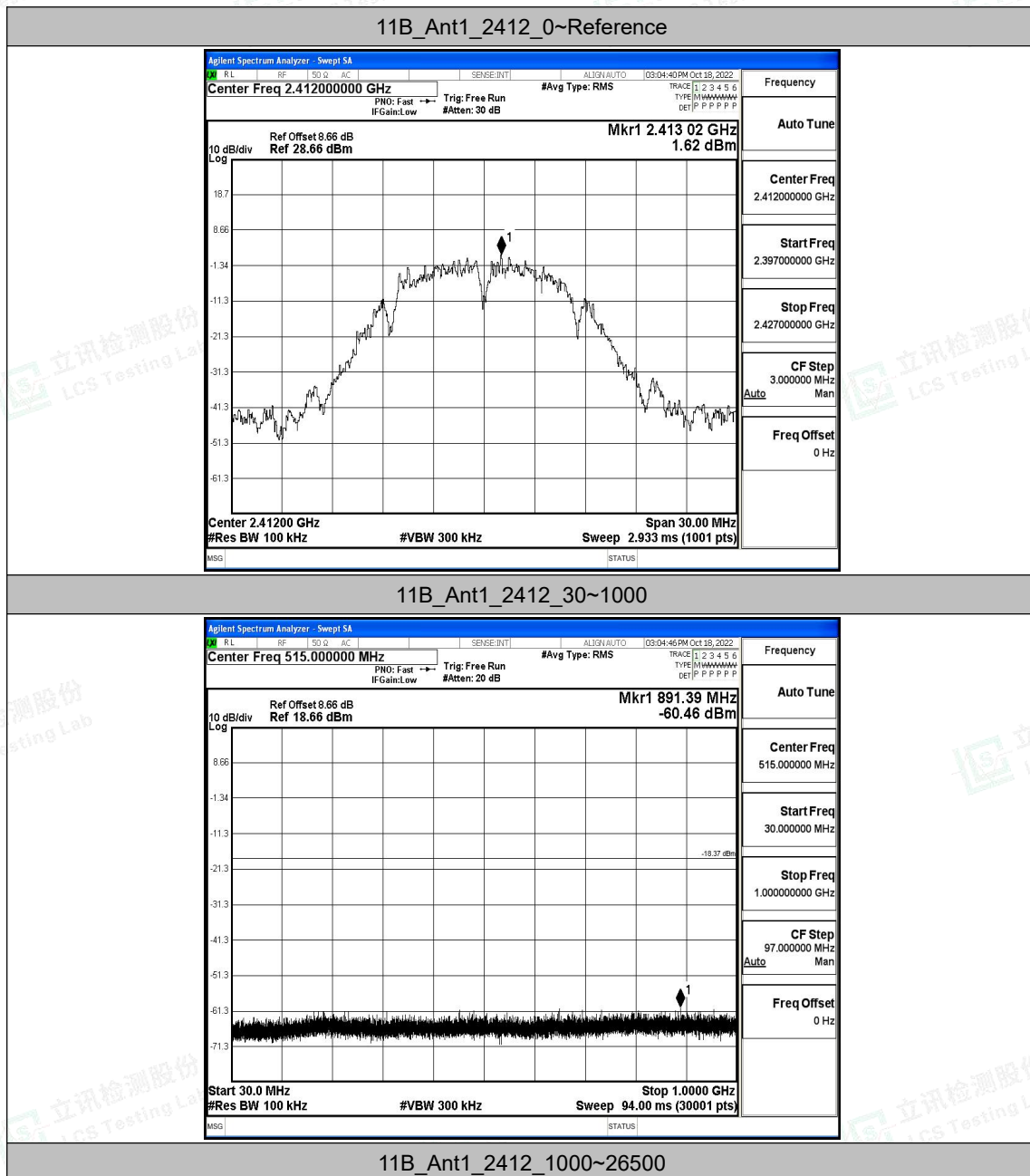
Test Result

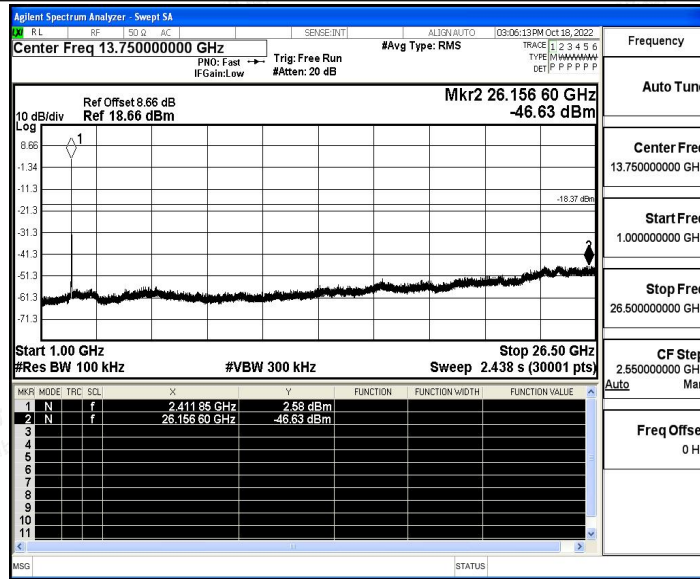
TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.63	1.63	---	PASS
			30~1000	1.63	-60.46	≤-18.37	PASS
			1000~26500	1.63	-46.63	≤-18.37	PASS
		2437	Reference	1.11	1.11	---	PASS
			30~1000	1.11	-60.6	≤-18.89	PASS
			1000~26500	1.11	-46.43	≤-18.89	PASS
		2462	Reference	0.94	0.94	---	PASS
			30~1000	0.94	-60.56	≤-19.06	PASS
			1000~26500	0.94	-45.89	≤-19.06	PASS
11G	Ant1	2412	Reference	-7.16	-7.16	---	PASS
			30~1000	-7.16	-60.81	≤-27.16	PASS
			1000~26500	-7.16	-45.45	≤-27.16	PASS
		2437	Reference	-8.22	-8.22	---	PASS
			30~1000	-8.22	-60.27	≤-28.22	PASS
			1000~26500	-8.22	-45.75	≤-28.22	PASS
		2462	Reference	-7.92	-7.92	---	PASS
			30~1000	-7.92	-60.49	≤-27.92	PASS
			1000~26500	-7.92	-45.74	≤-27.92	PASS
11N20SISO	Ant1	2412	Reference	-7.42	-7.42	---	PASS
			30~1000	-7.42	-59.46	≤-27.42	PASS
			1000~26500	-7.42	-46.21	≤-27.42	PASS
		2437	Reference	-7.56	-7.56	---	PASS
			30~1000	-7.56	-60.51	≤-27.56	PASS
			1000~26500	-7.56	-45.3	≤-27.56	PASS
		2462	Reference	-8.95	-8.95	---	PASS
			30~1000	-8.95	-60.82	≤-28.95	PASS
			1000~26500	-8.95	-46	≤-28.95	PASS



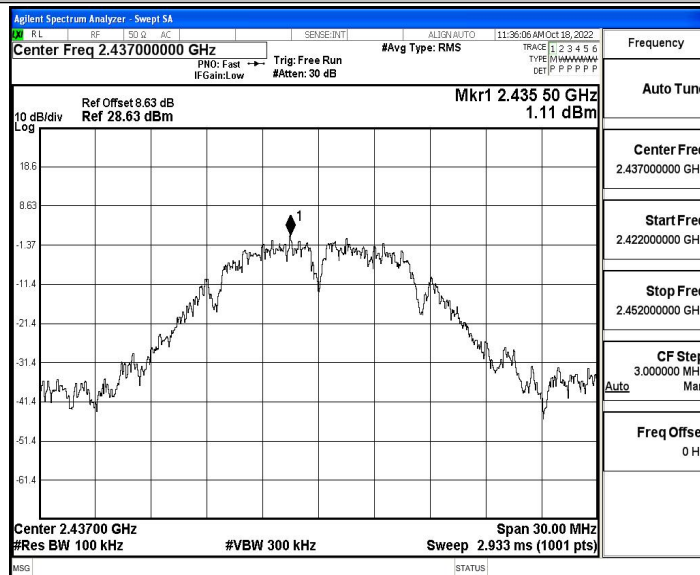


Test Graphs



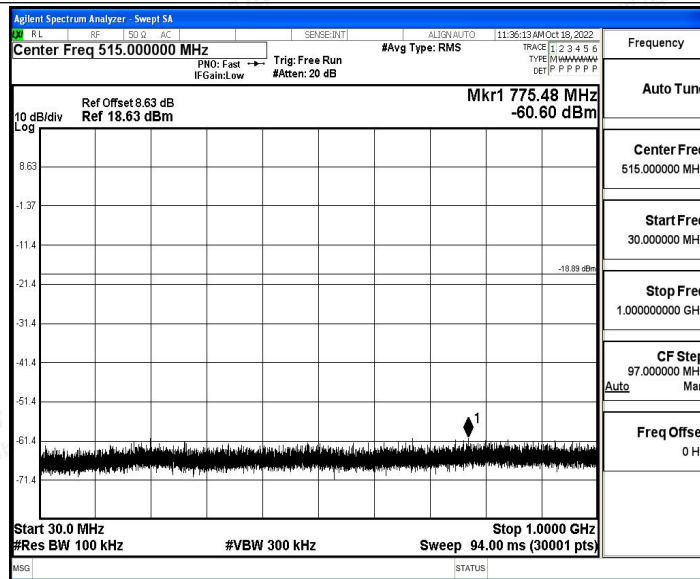


11B_Ant1_2437_0~Reference

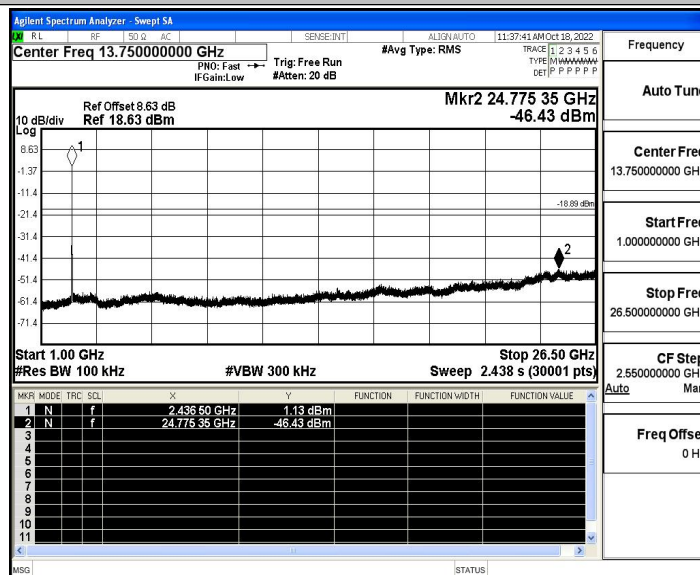


11B_Ant1_2437_30~1000



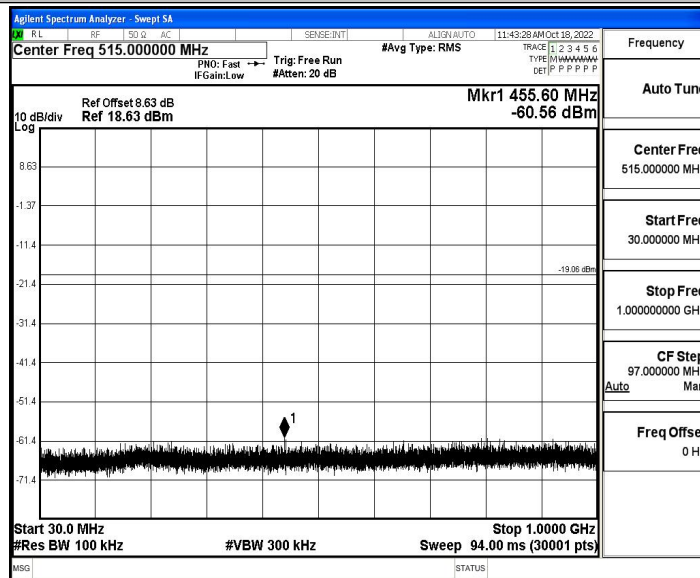
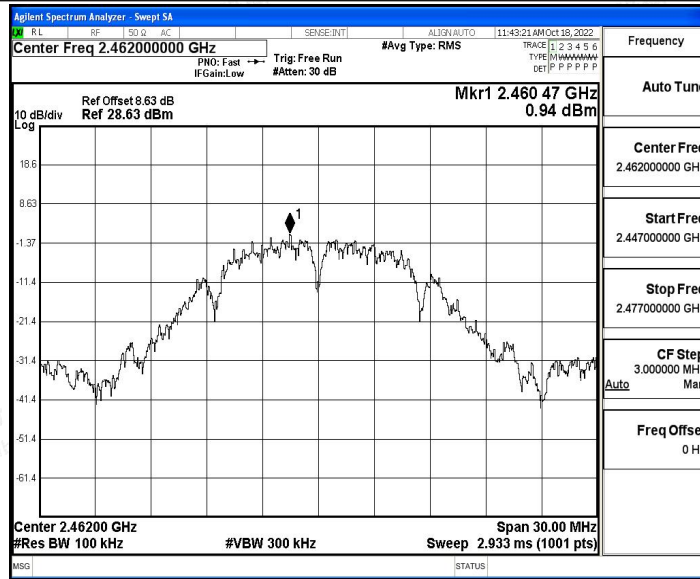


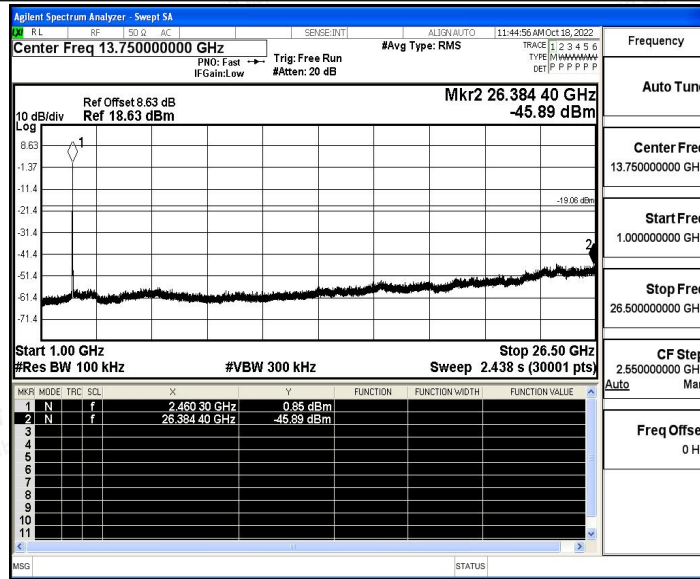
11B_Ant1_2437_1000~26500



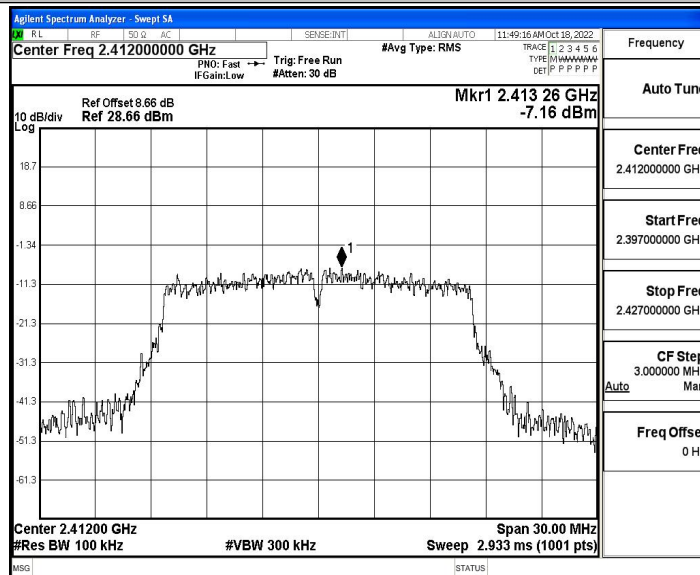
11B_Ant1_2462_0~Reference







11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

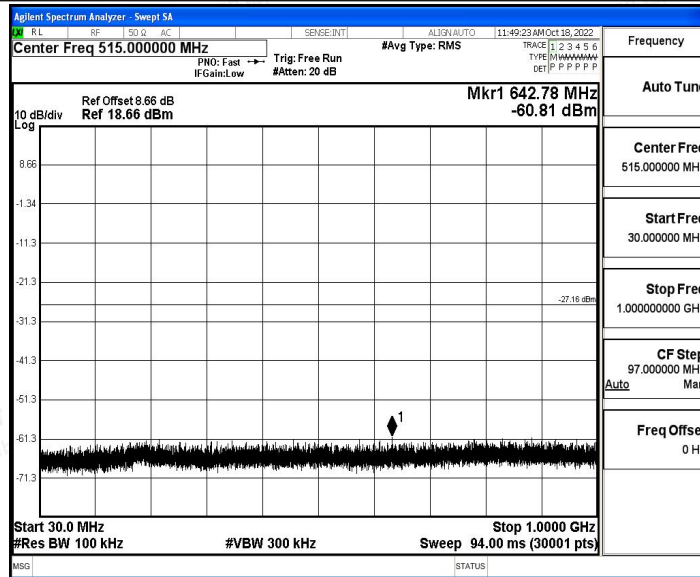


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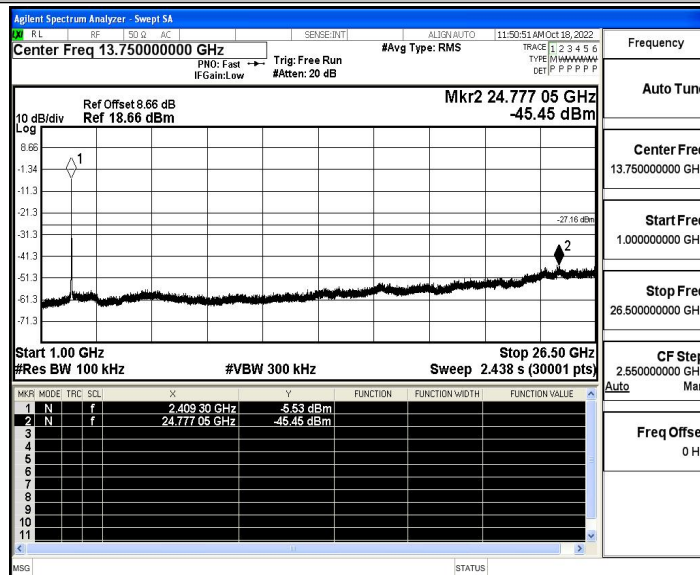
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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

