



## 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





### A.1 DTS Bandwidth

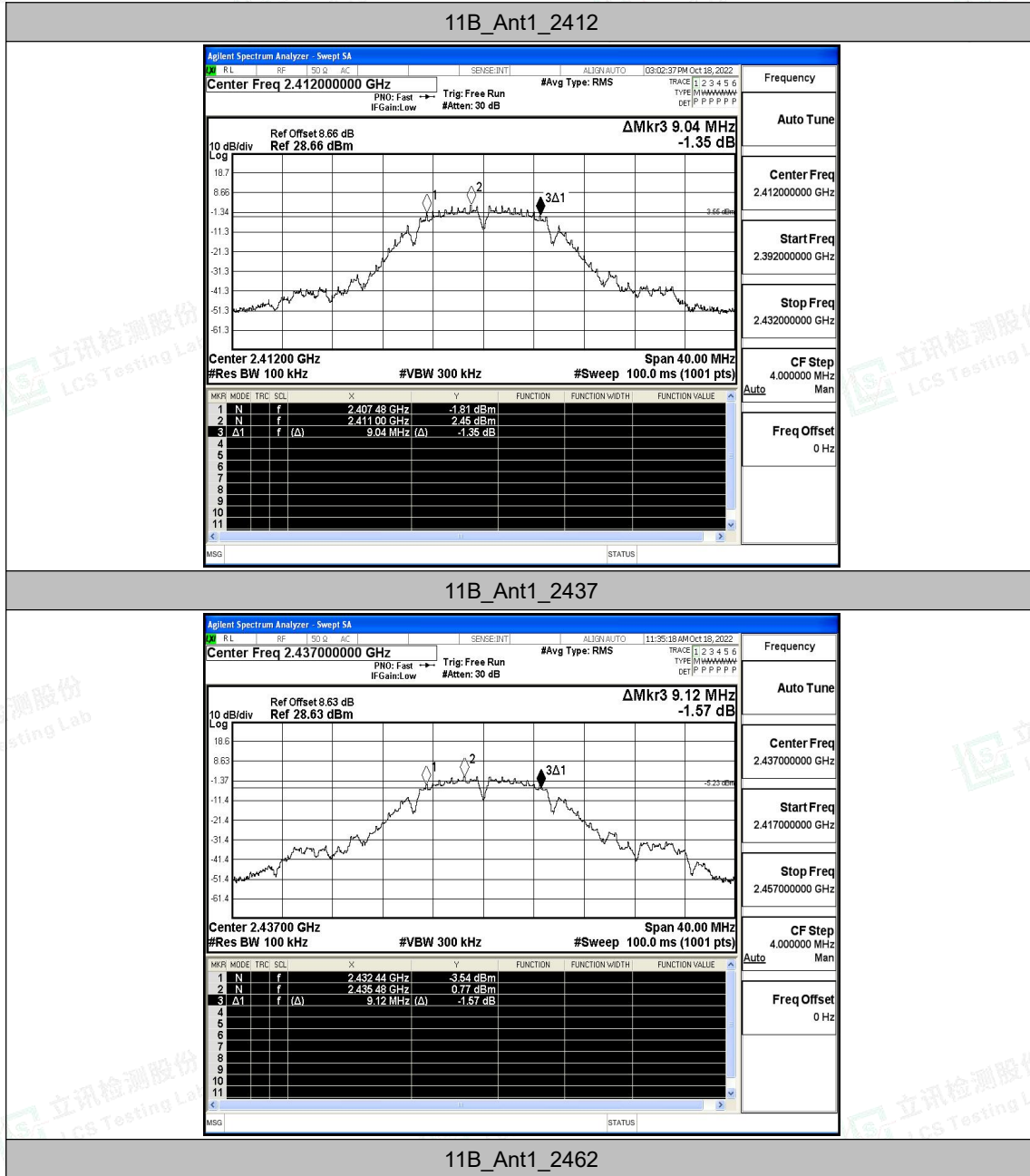
#### Test Result

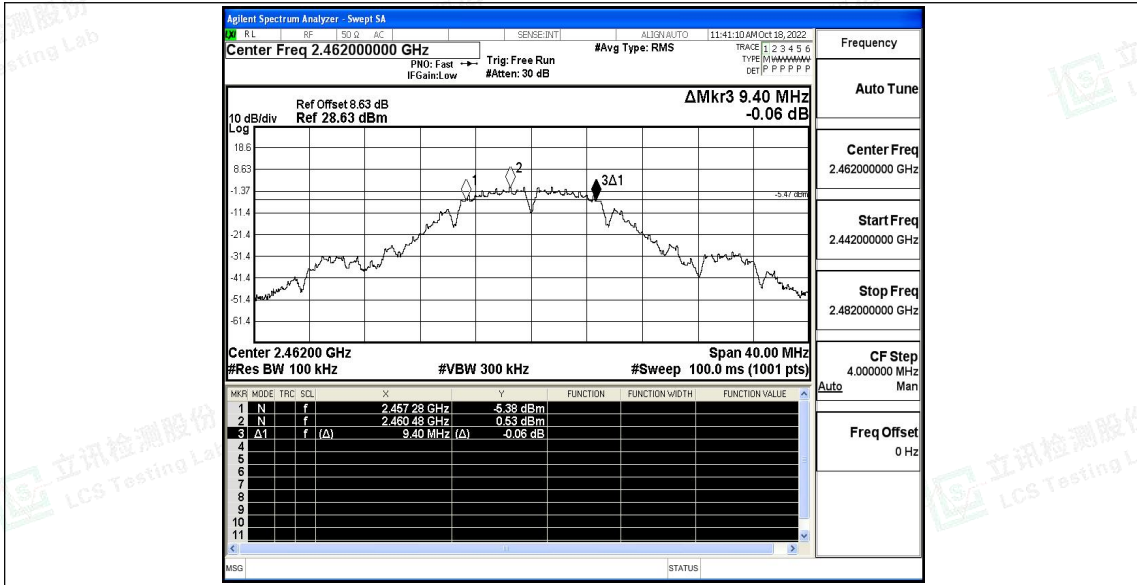
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	0.5	PASS
		2437	9.120	2432.440	2441.560	0.5	PASS
		2462	9.400	2457.280	2466.680	0.5	PASS
11G	Ant1	2412	15.640	2404.120	2419.760	0.5	PASS
		2437	15.080	2429.440	2444.520	0.5	PASS
		2462	15.120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



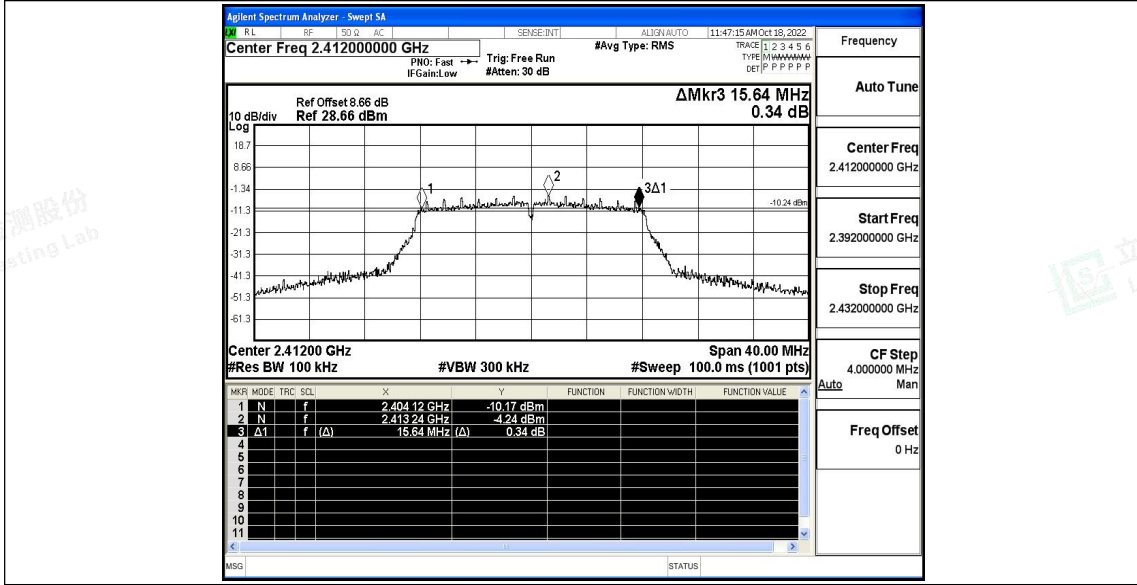


### Test Graphs



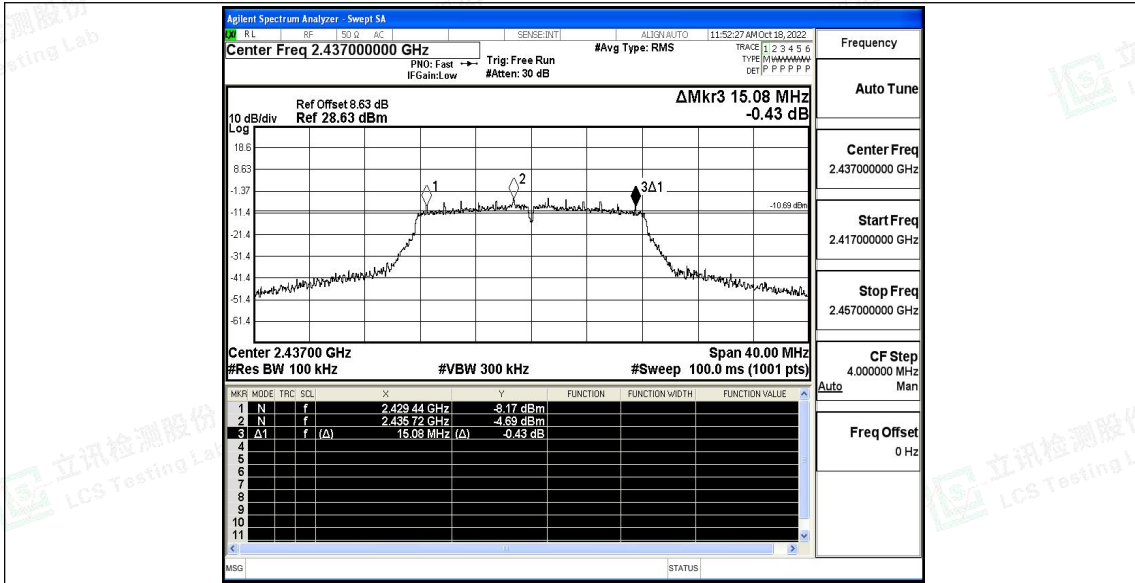


11G\_Ant1\_2412

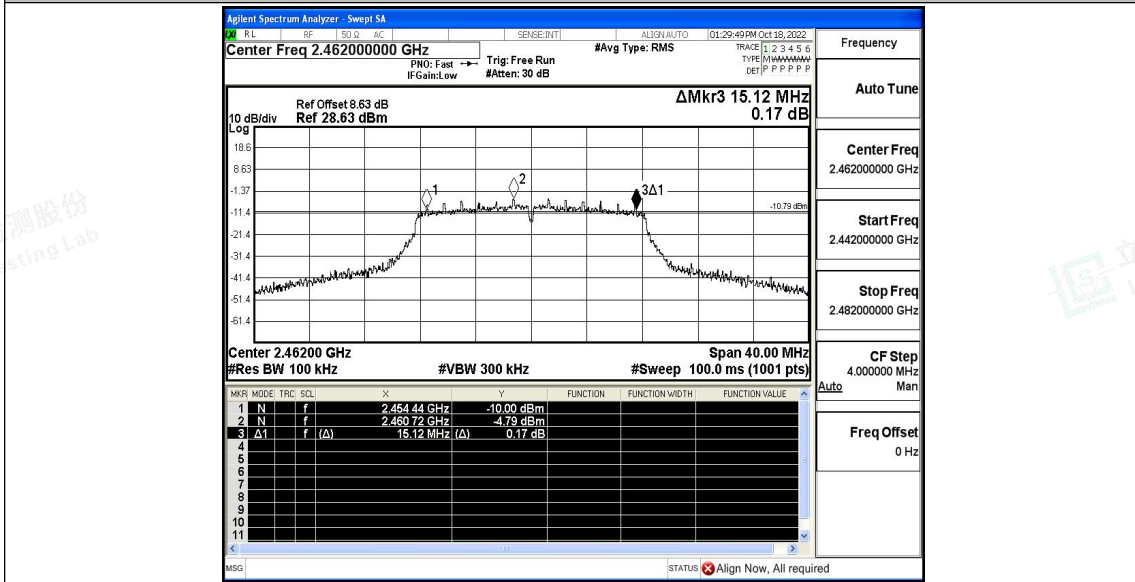


11G\_Ant1\_2437



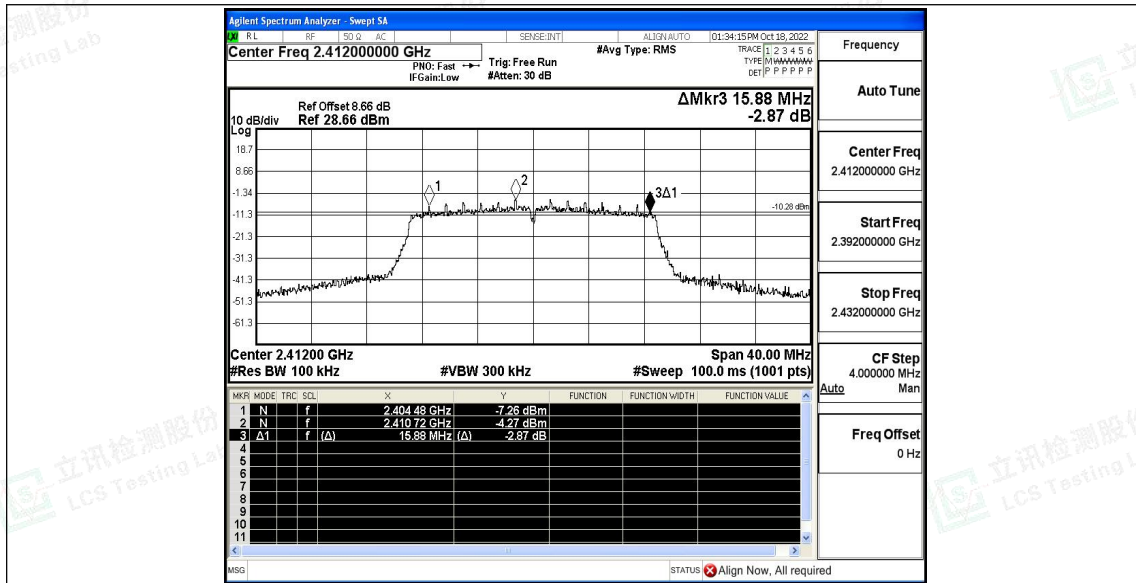


11G\_Ant1\_2462

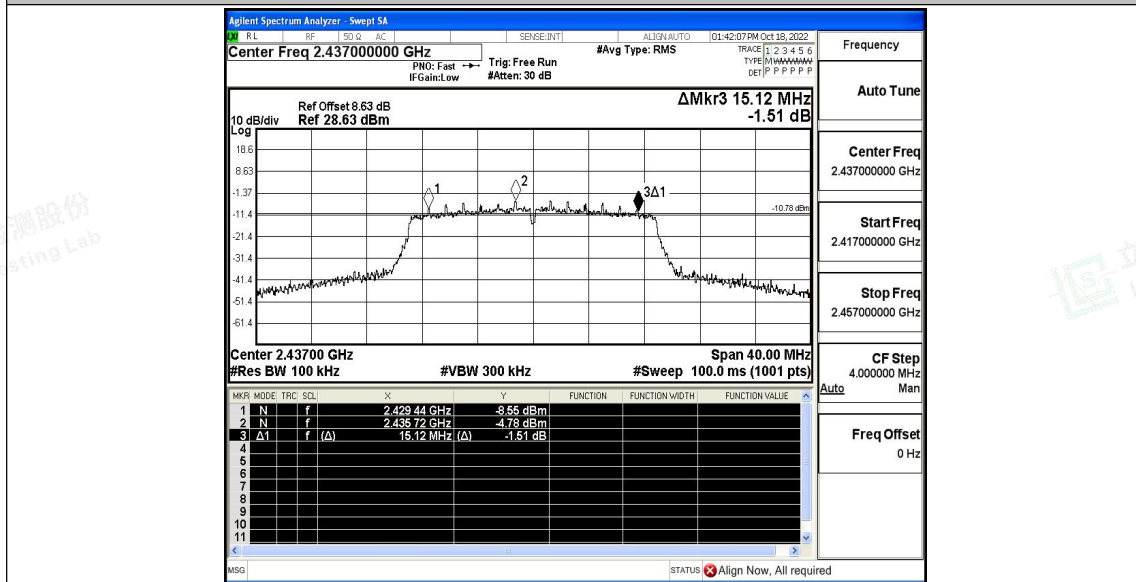


11N20SISO\_Ant1\_2412



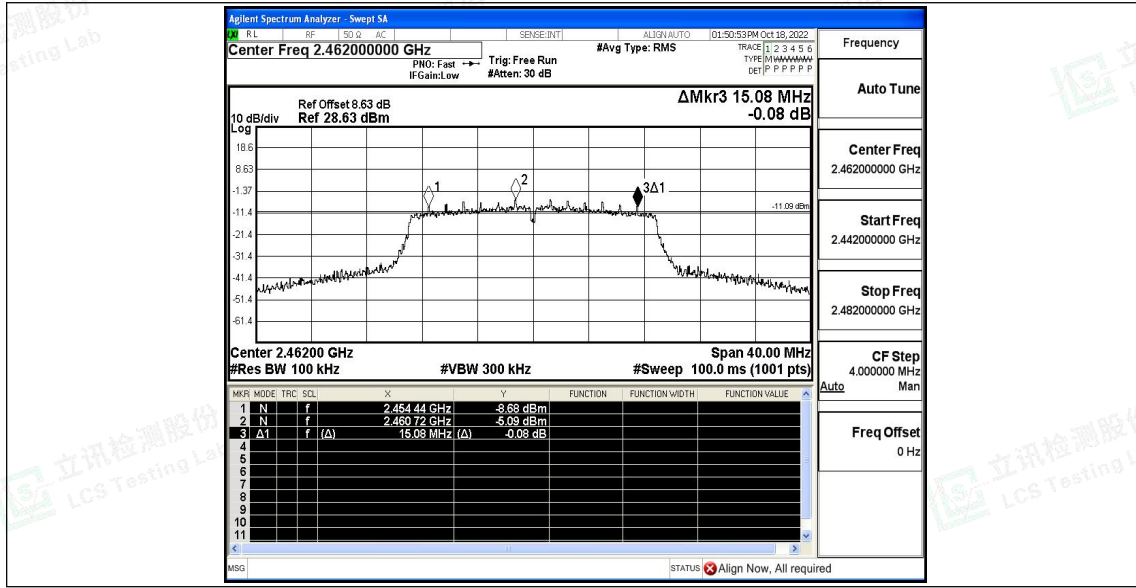


11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462









## 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

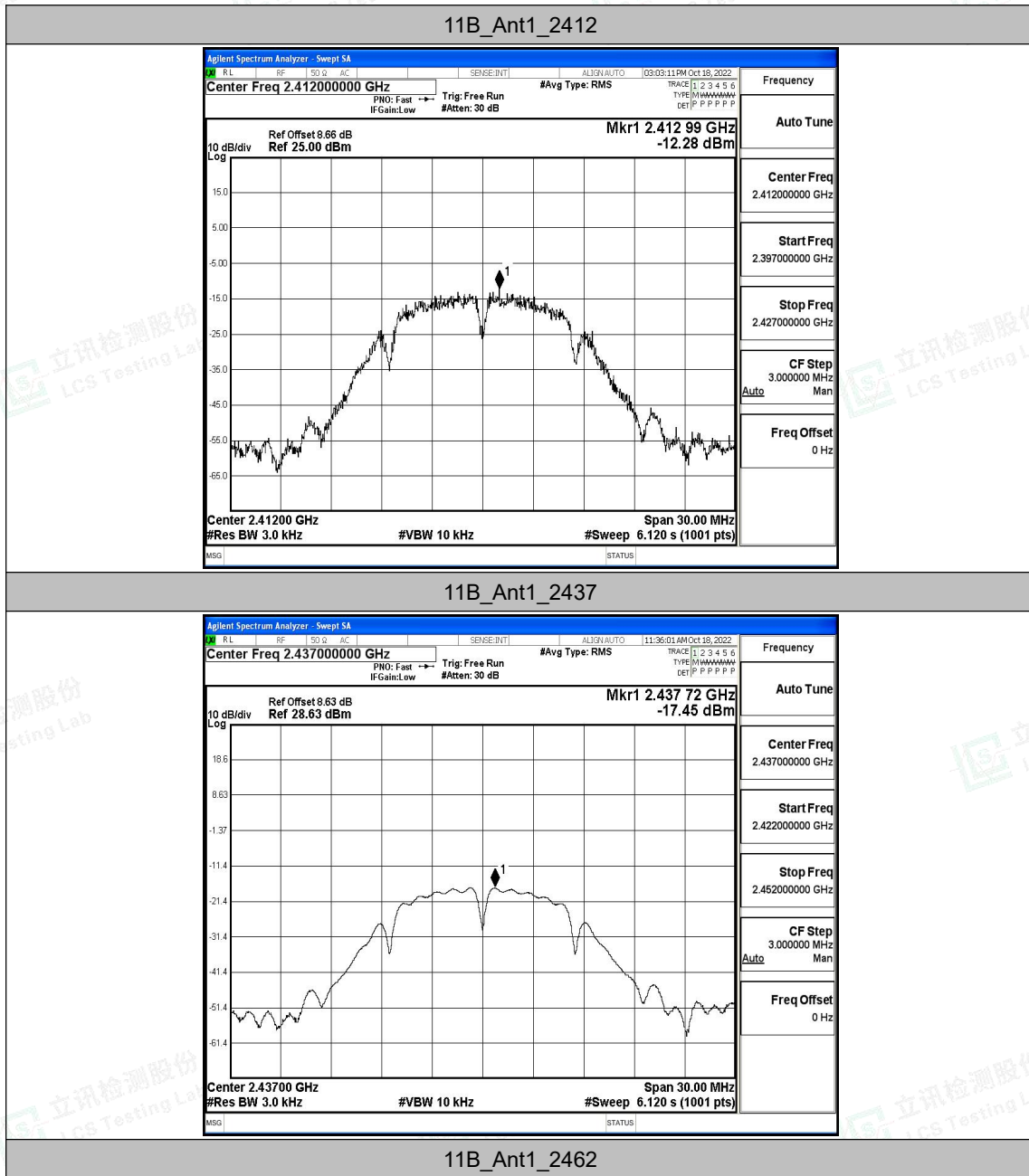
#### Test Result

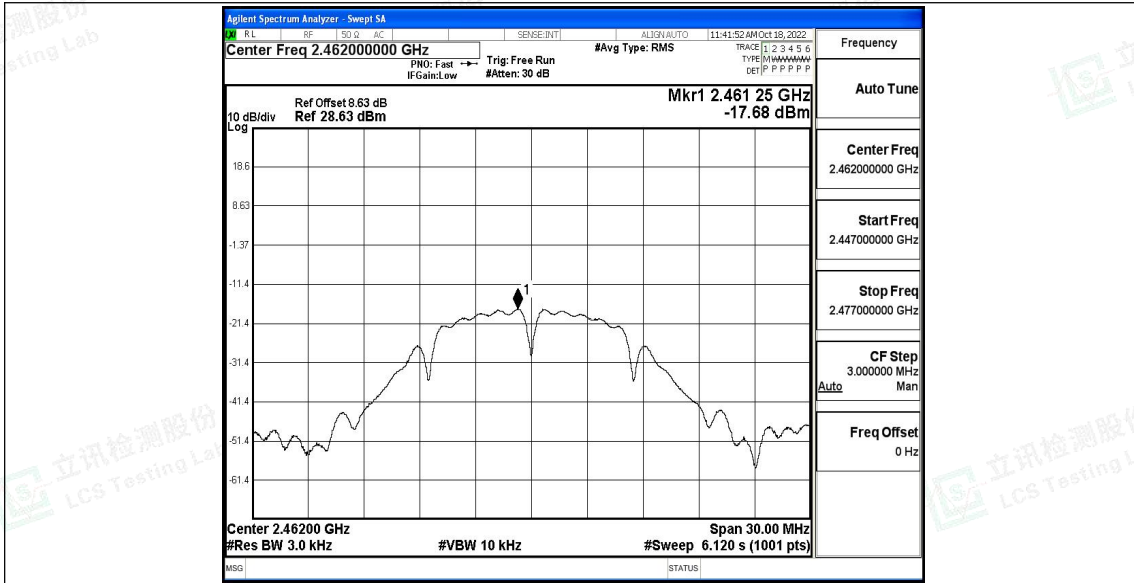
TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-12.28	≤8.00	PASS
		2437	-17.45	≤8.00	PASS
		2462	-17.68	≤8.00	PASS
11G	Ant1	2412	-19.03	≤8.00	PASS
		2437	-18.46	≤8.00	PASS
		2462	-19.56	≤8.00	PASS
11N20SISO	Ant1	2412	-18.98	≤8.00	PASS
		2437	-19.81	≤8.00	PASS
		2462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



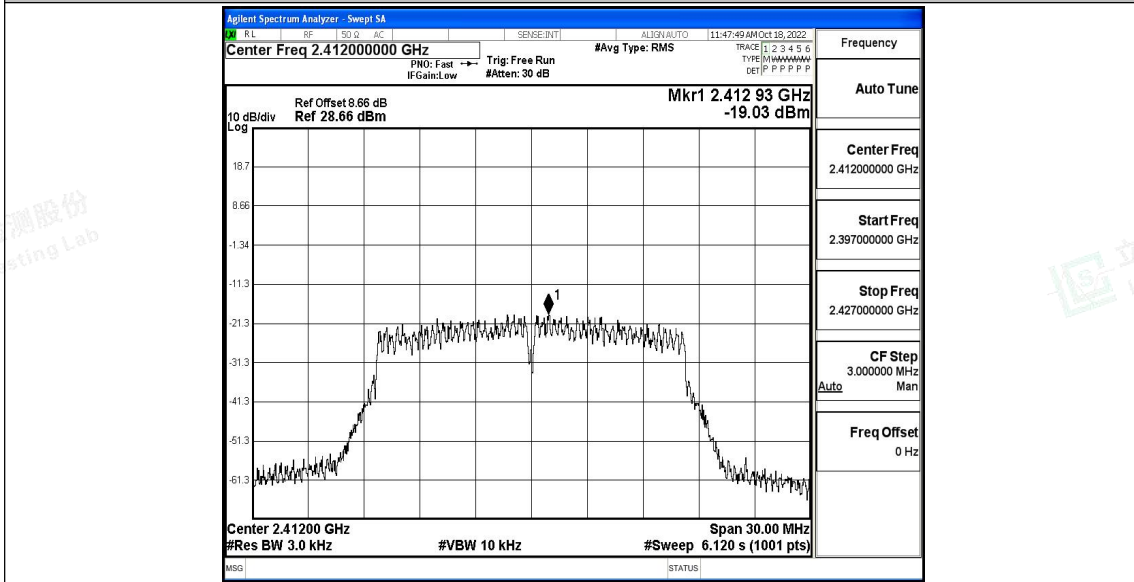


### Test Graphs



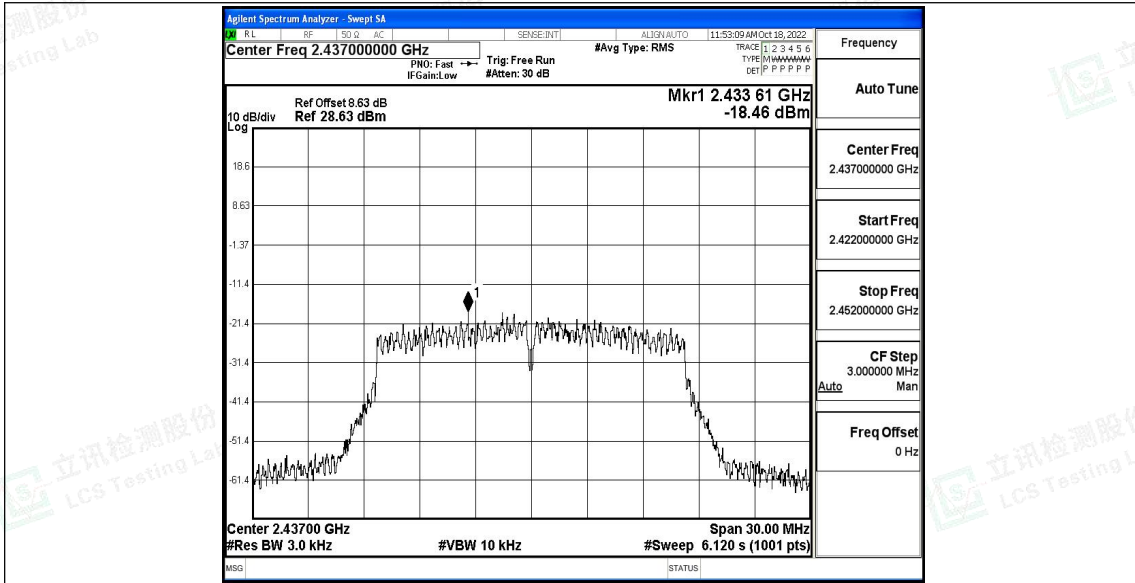


11G\_Ant1\_2412

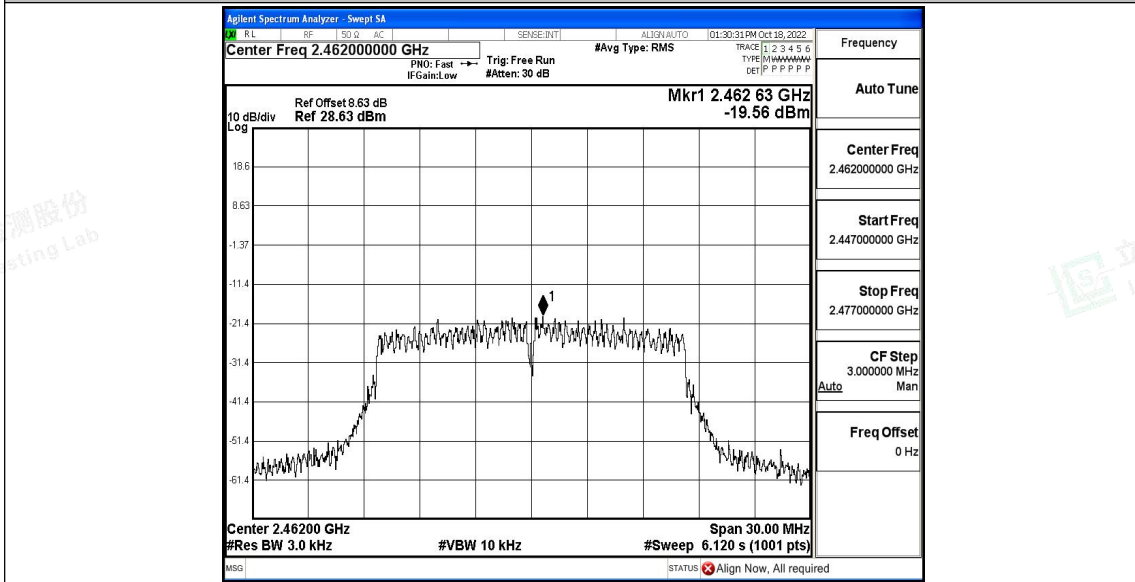


11G\_Ant1\_2437



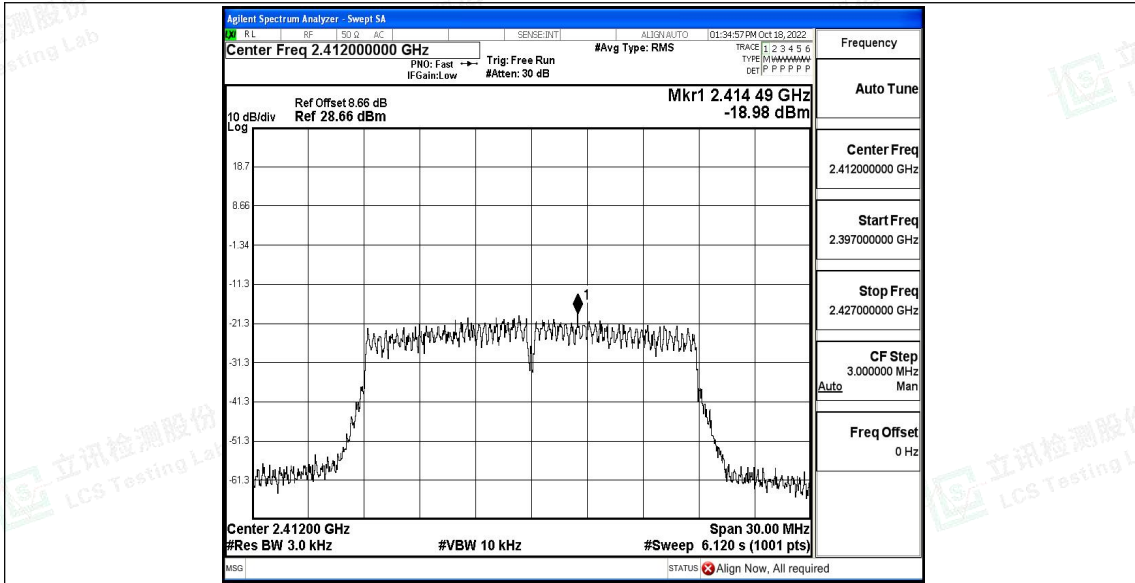


11G\_Ant1\_2462

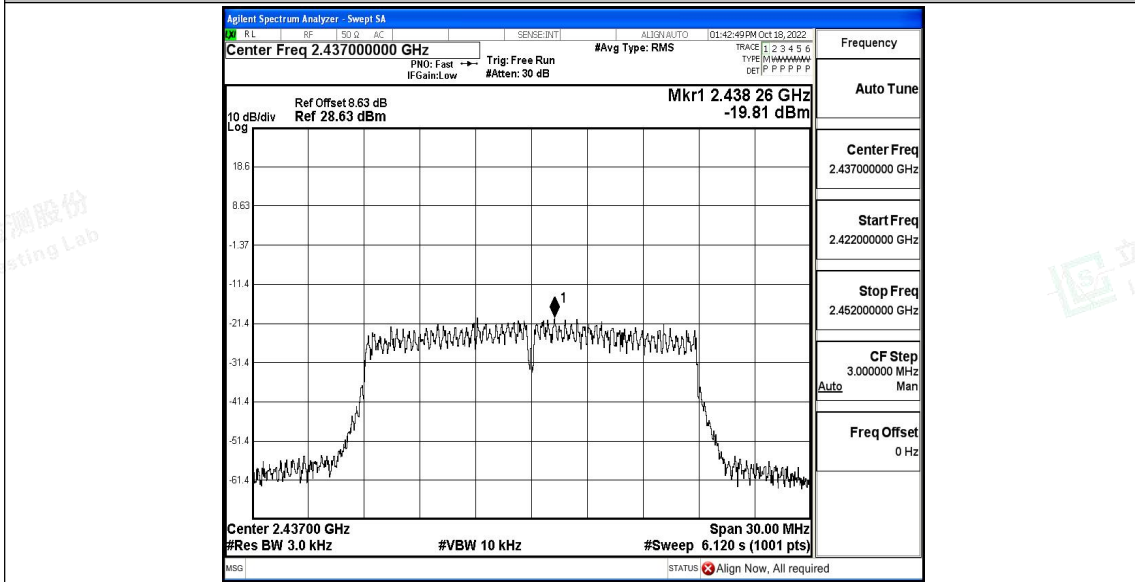


11N20SISO\_Ant1\_2412



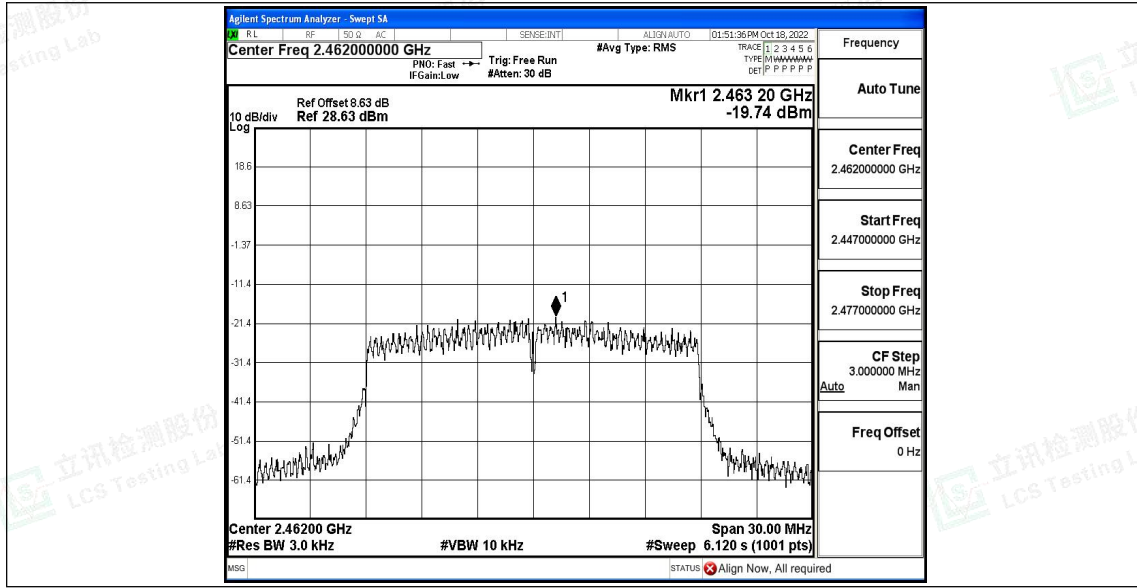


11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462







### A.4 Band edge measurements

#### Test Result

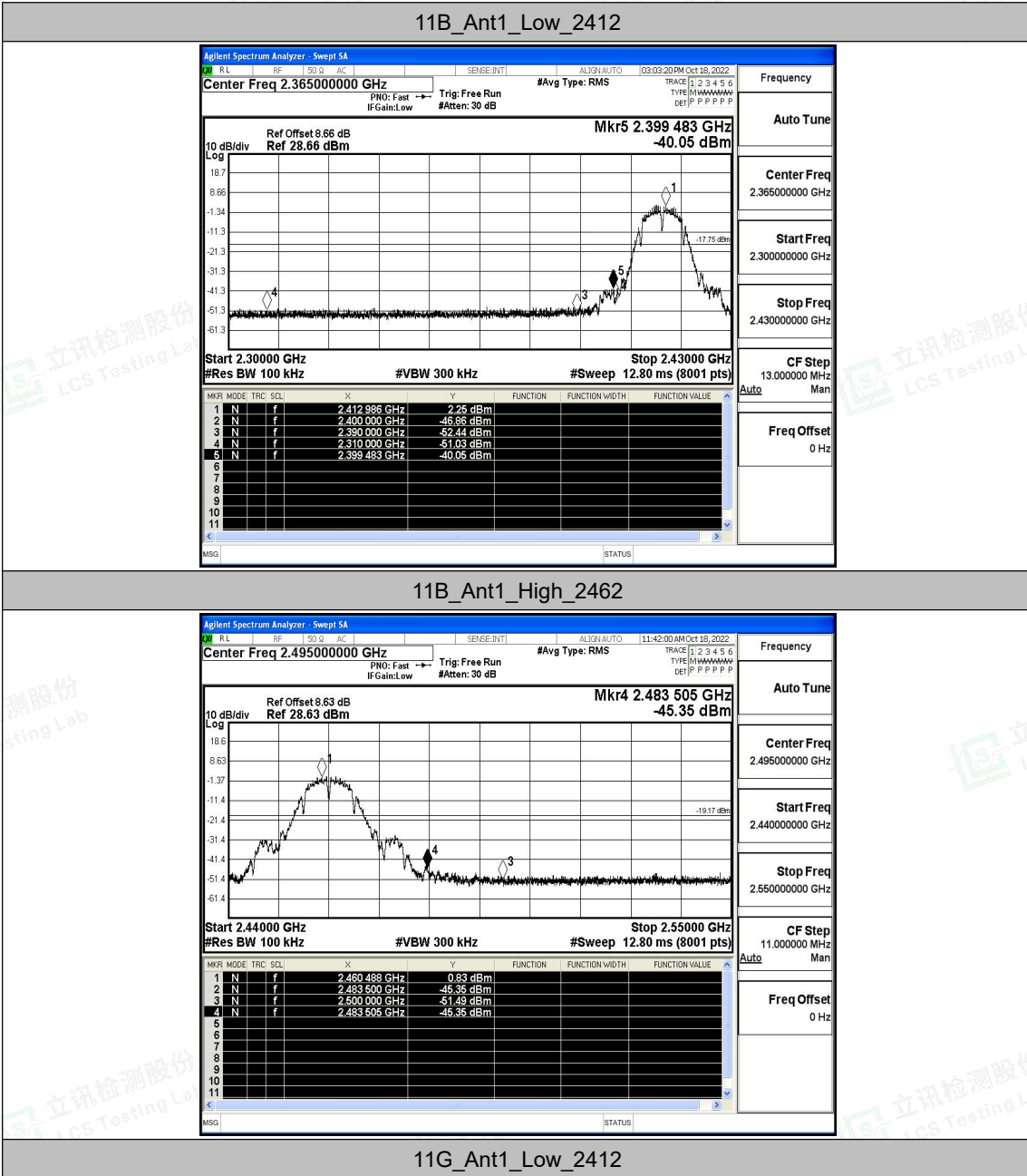
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.25	-40.05	≤-17.75	PASS
		High	2462	0.83	-45.35	≤-19.17	PASS
11G	Ant1	Low	2412	-3.58	-39.59	≤-23.58	PASS
		High	2462	-4.17	-47.77	≤-24.17	PASS
11N20SISO	Ant1	Low	2412	-5.45	-41	≤-25.45	PASS
		High	2462	-5.71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

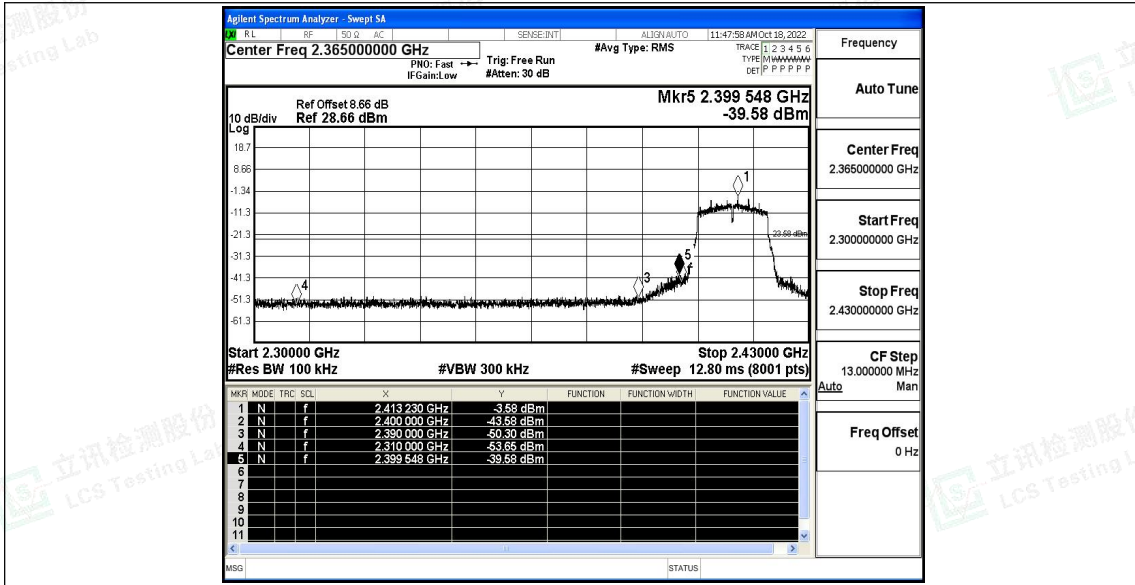




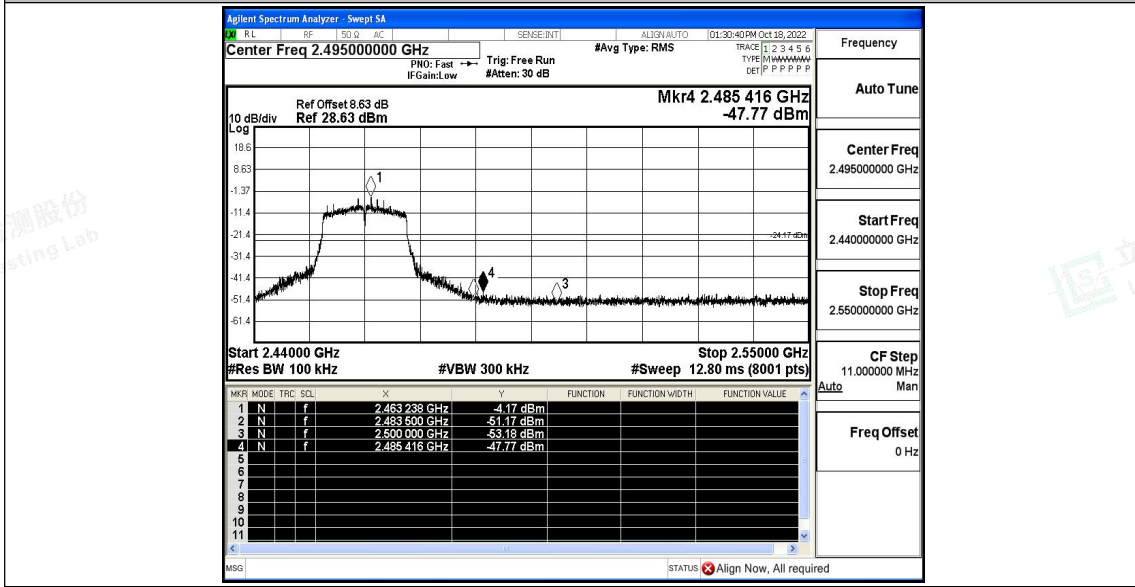


### Test Graphs



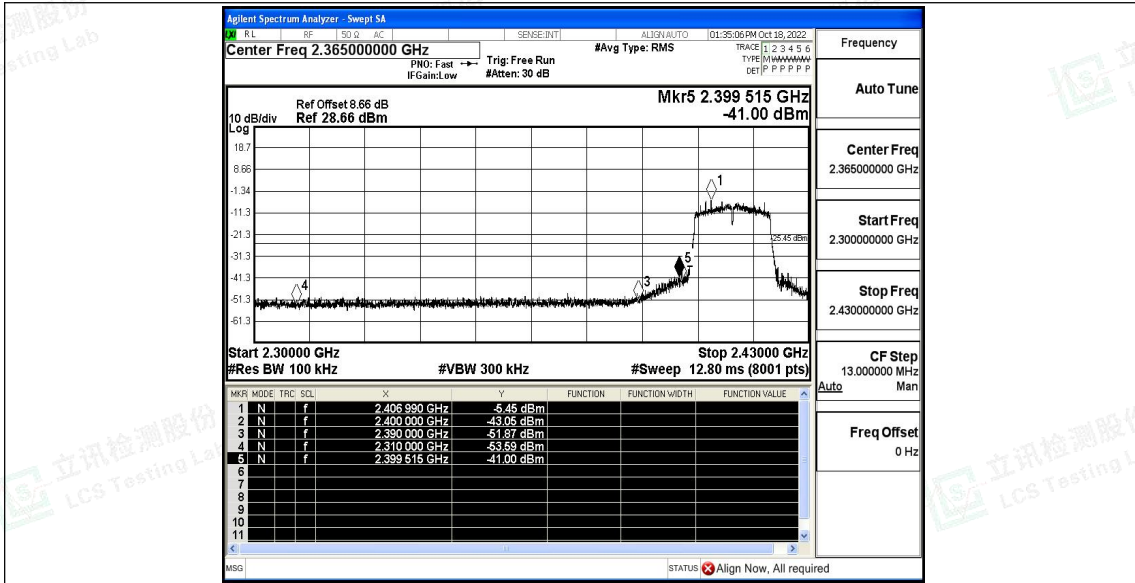


11G\_Ant1\_High\_2462

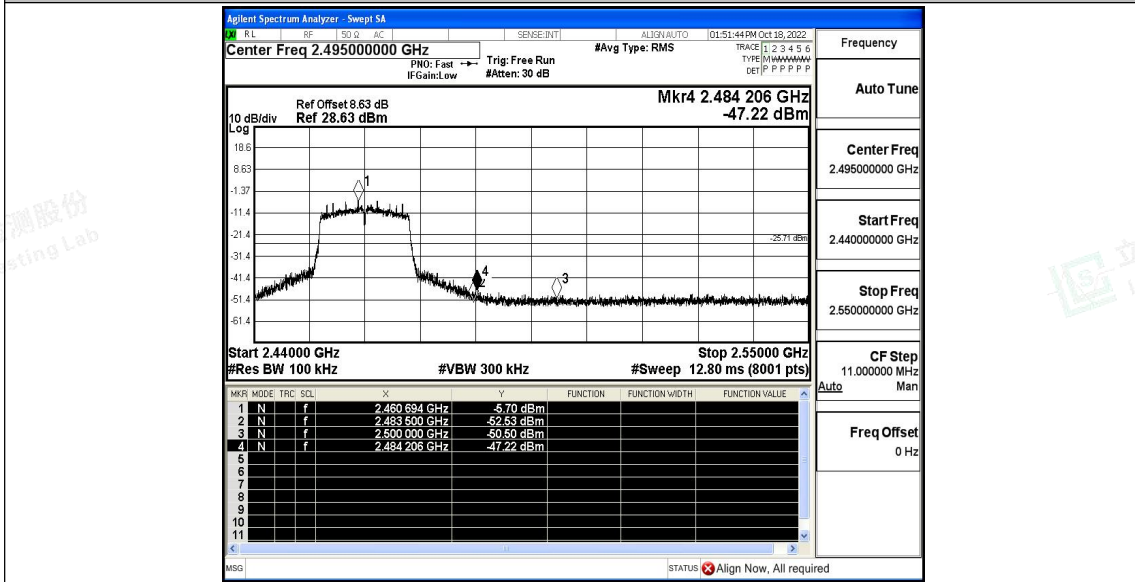


11N20SISO\_Ant1\_Low\_2412





11N20SISO\_Ant1\_High\_2462





## A.5 Conducted Spurious Emission

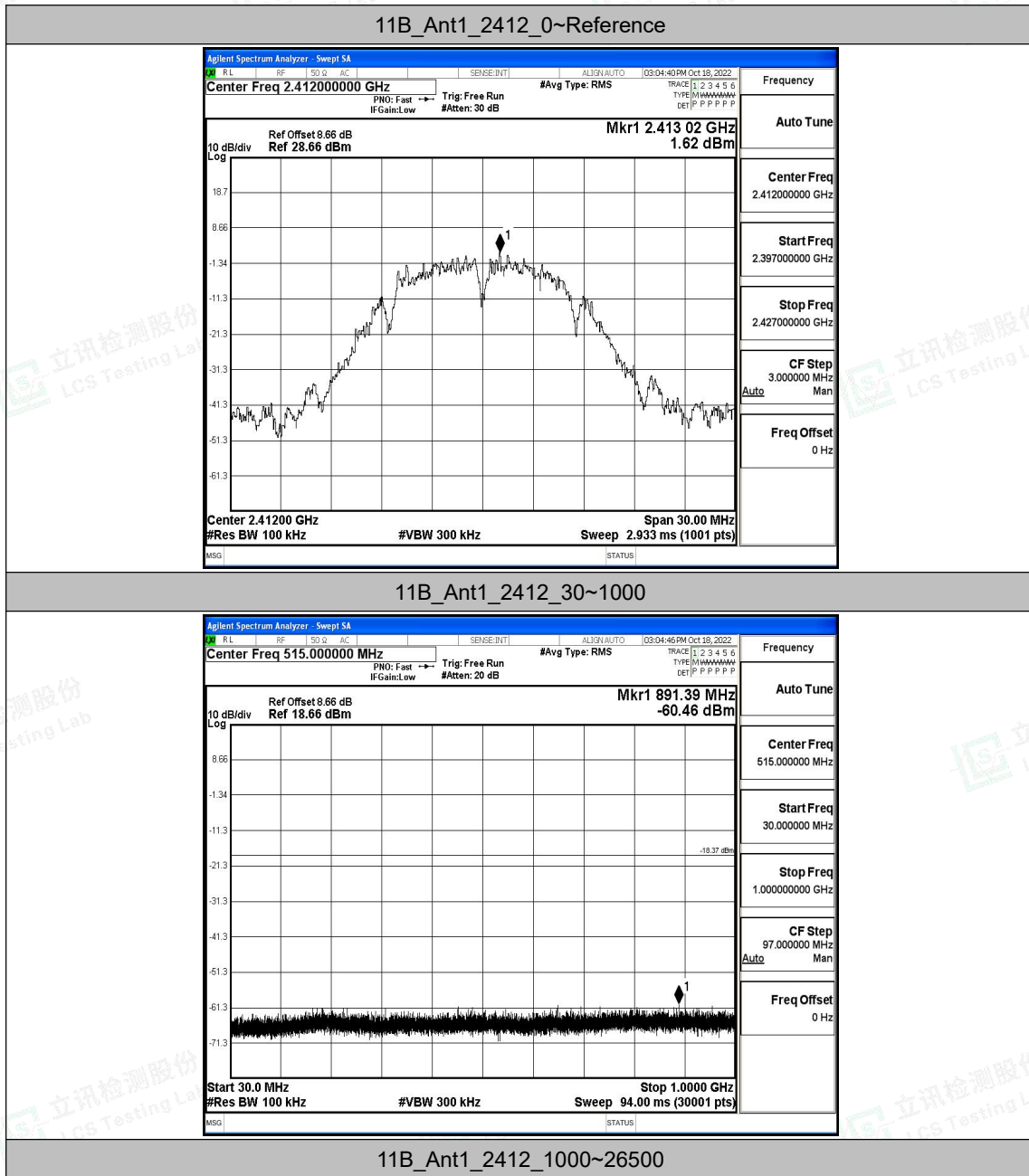
### Test Result

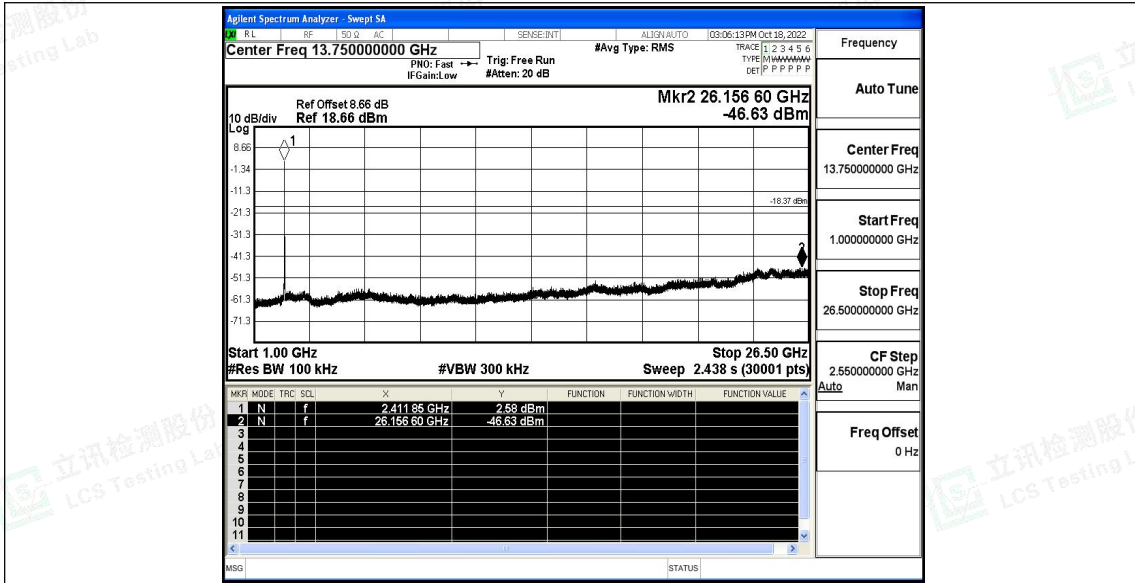
TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.63	1.63	---	PASS
			30~1000	1.63	-60.46	≤-18.37	PASS
			1000~26500	1.63	-46.63	≤-18.37	PASS
		2437	Reference	1.11	1.11	---	PASS
			30~1000	1.11	-60.6	≤-18.89	PASS
			1000~26500	1.11	-46.43	≤-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



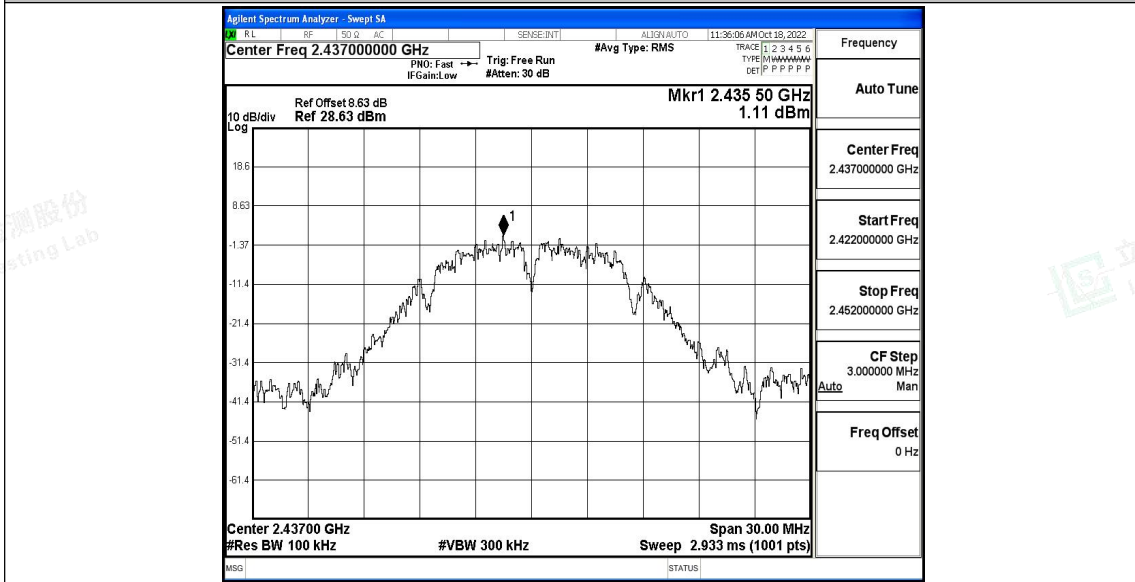


### Test Graphs





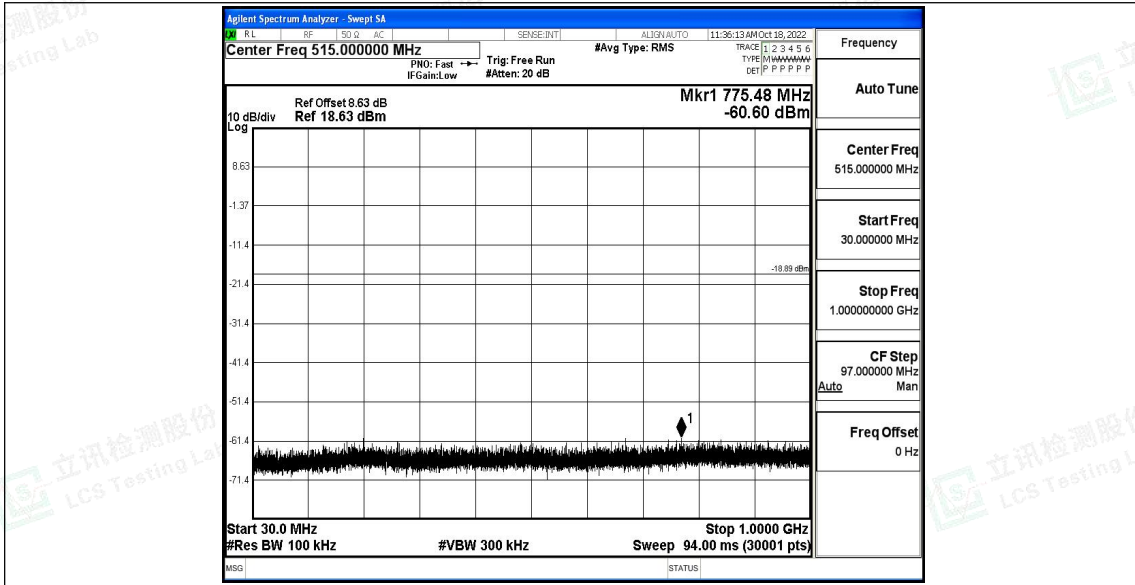
11B\_Ant1\_2437\_0~Reference



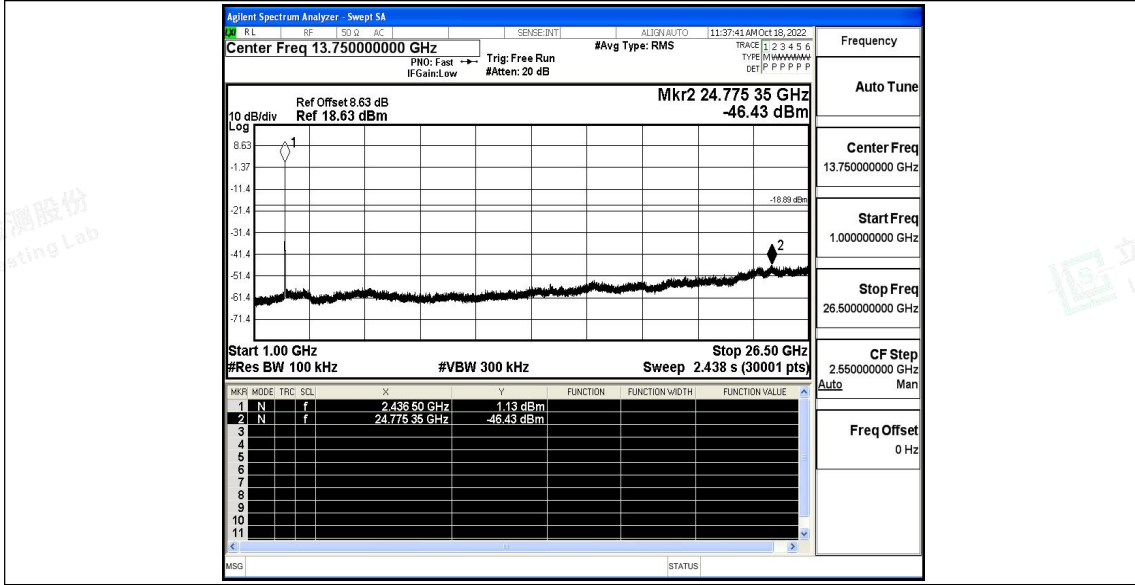
11B\_Ant1\_2437\_30~1000







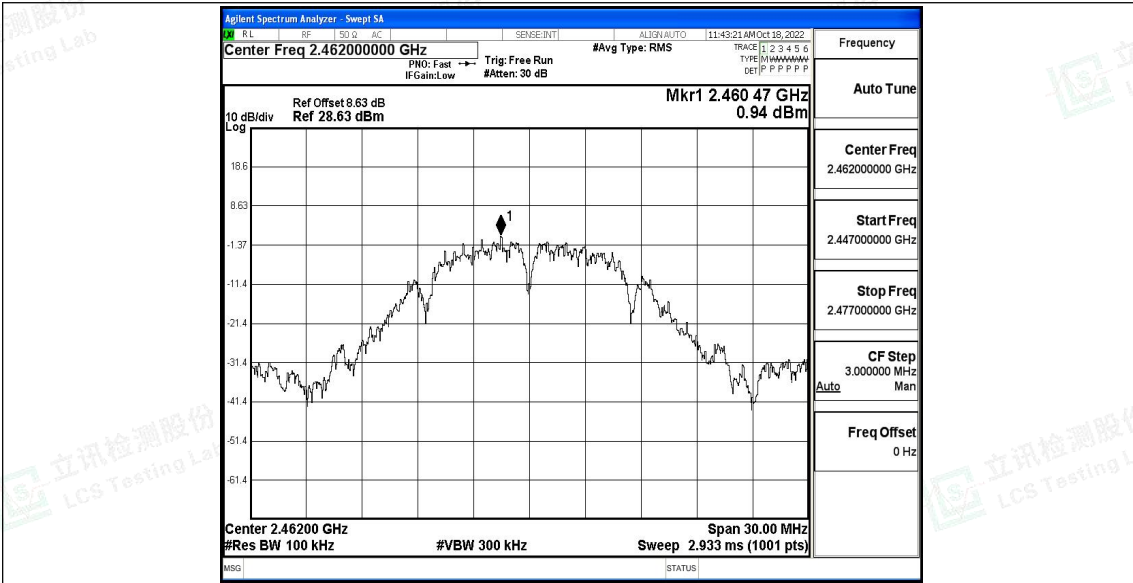
11B\_Ant1\_2437\_1000~26500



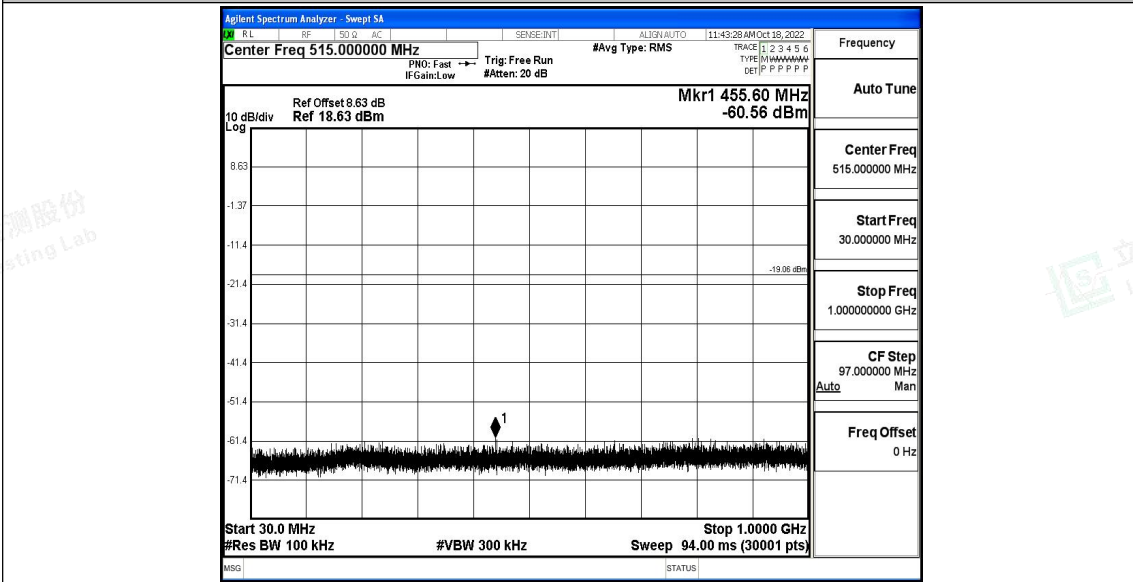
11B\_Ant1\_2462\_0~Reference





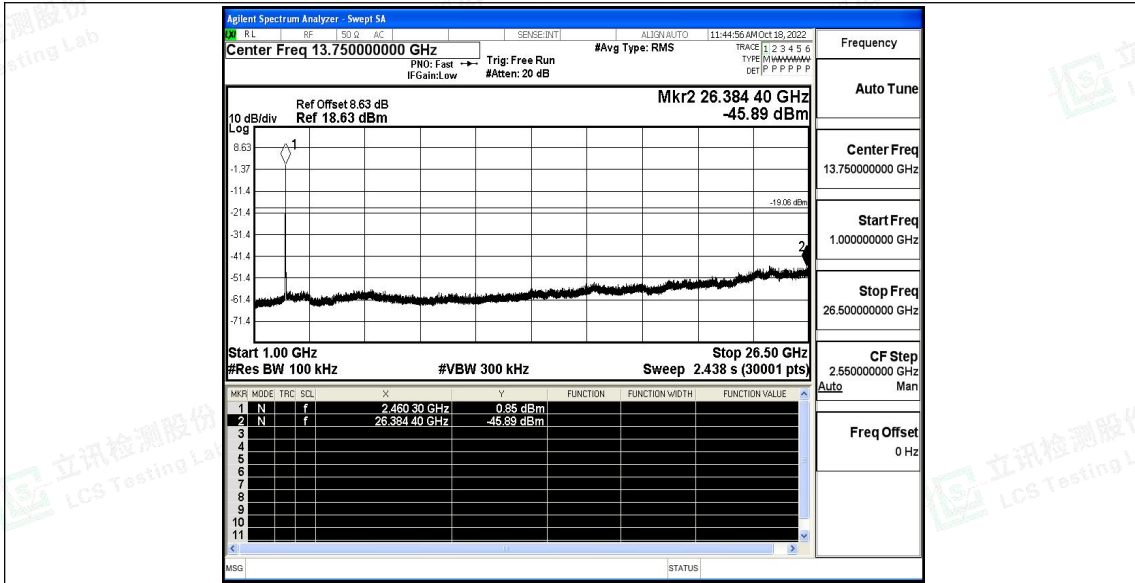


11B\_Ant1\_2462\_30~1000

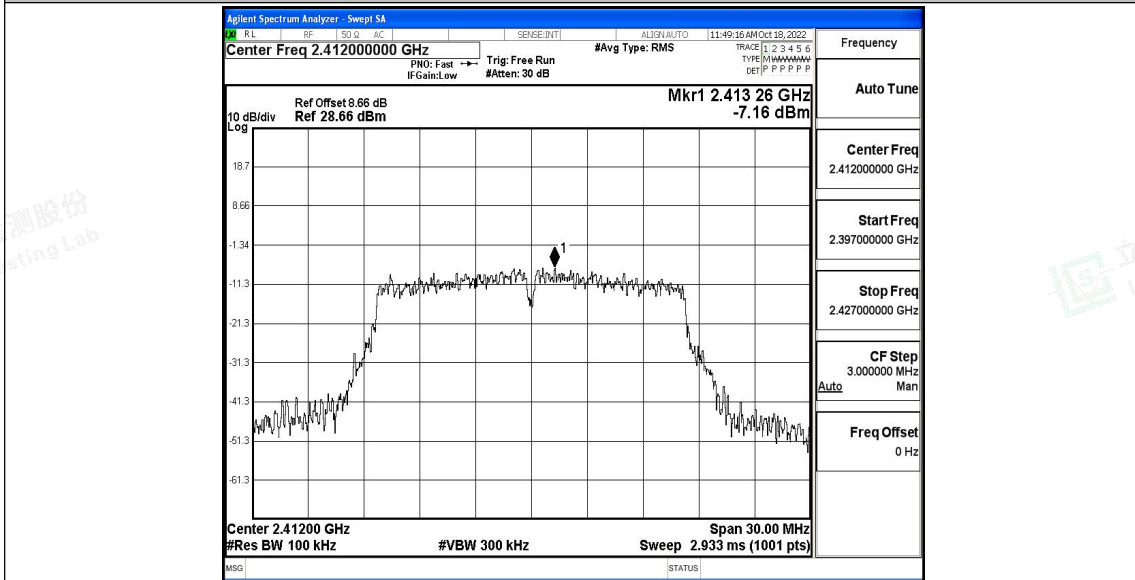


11B\_Ant1\_2462\_1000~26500



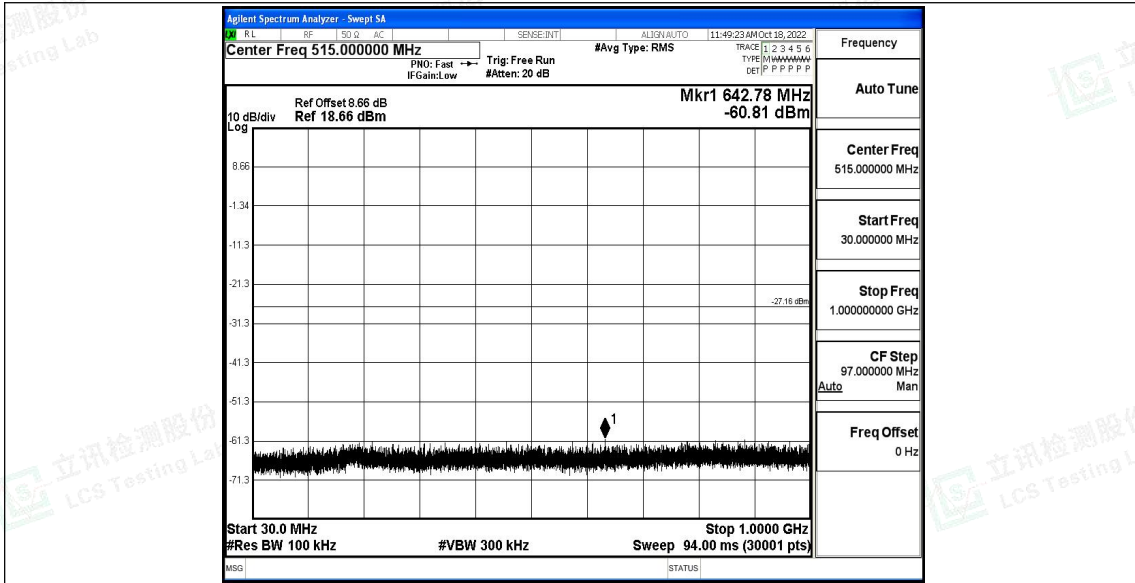


11G\_Ant1\_2412\_0~Reference

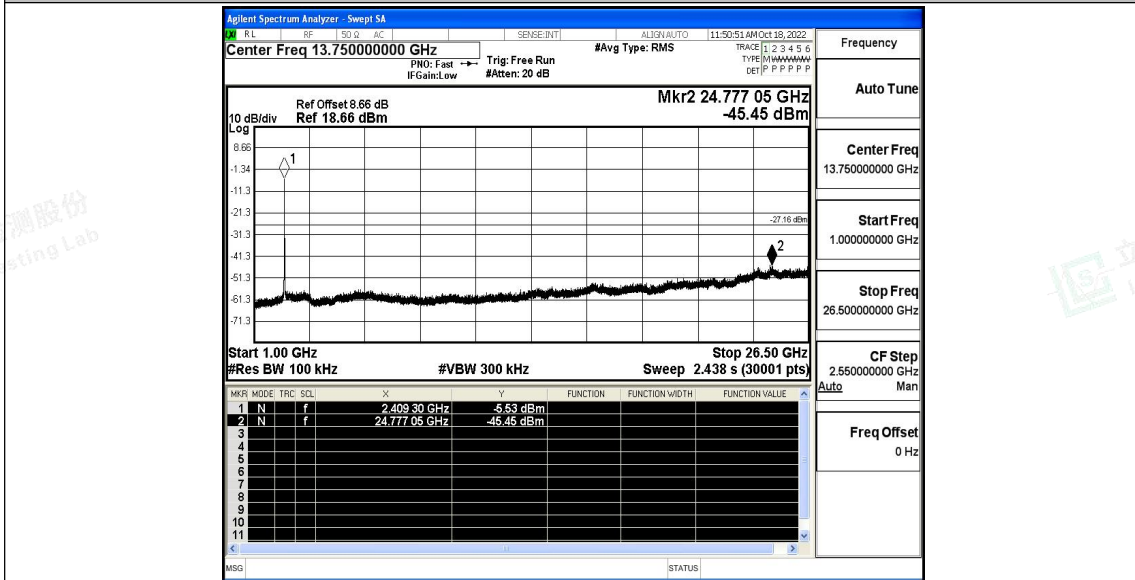


11G\_Ant1\_2412\_30~1000





11G\_Ant1\_2412\_1000~26500



11G\_Ant1\_2437\_0~Reference

