



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Tablet PC

Test Model: MW1021P

Environmental Conditions

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





C.1 DTS Bandwidth

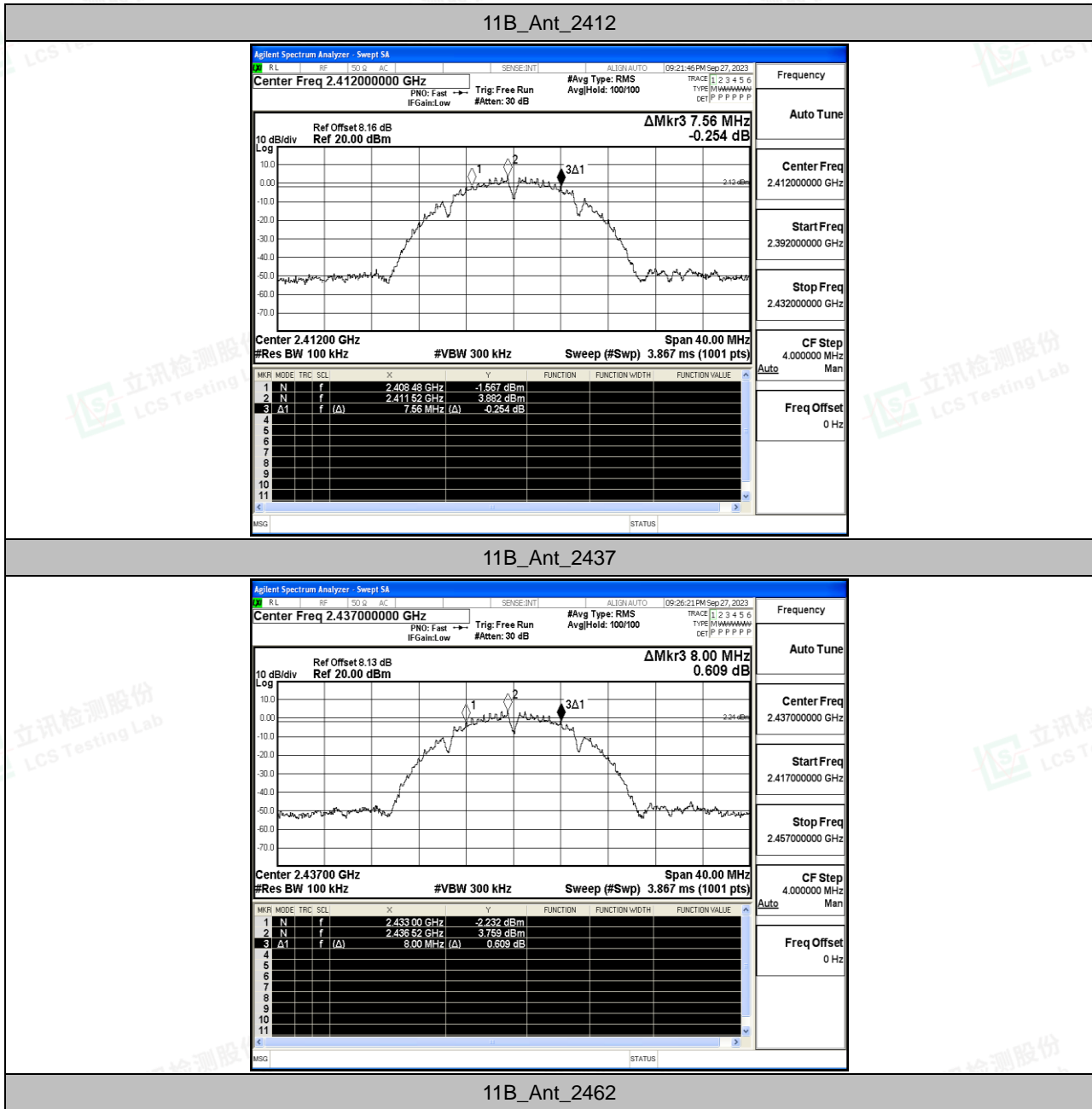
Test Result

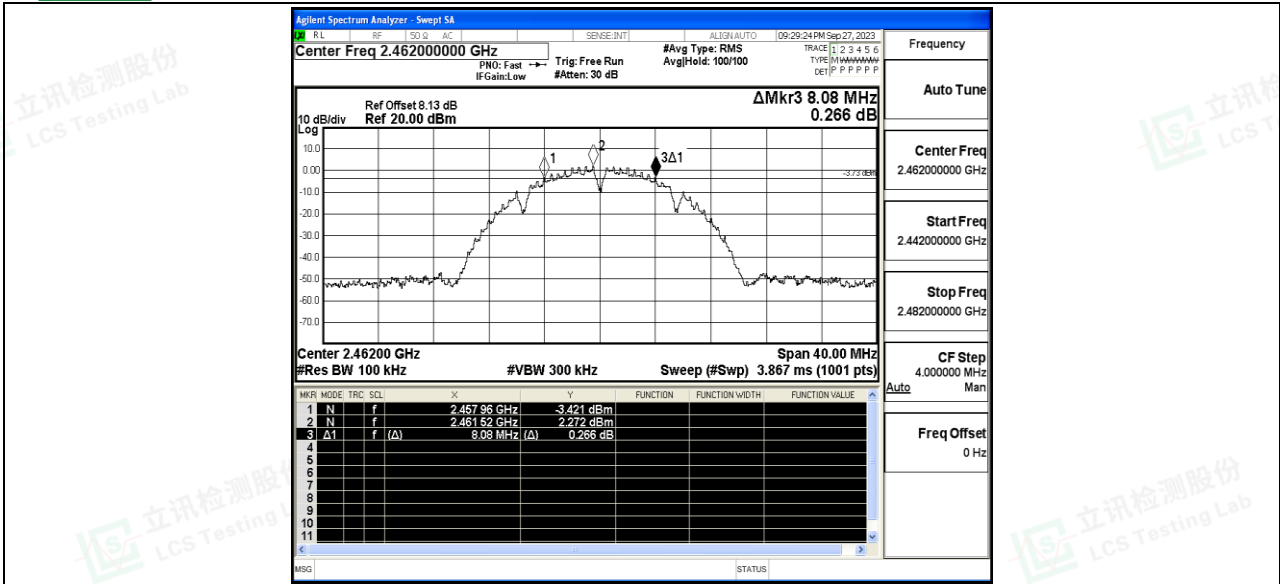
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	7.560	2408.480	2416.040	0.5	PASS
		2437	8.000	2433.000	2441.000	0.5	PASS
		2462	8.080	2457.960	2466.040	0.5	PASS
11G	Ant	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.400	2429.480	2444.880	0.5	PASS
		2462	14.600	2454.520	2469.120	0.5	PASS
11N20SISO	Ant	2412	12.480	2407.000	2419.480	0.5	PASS
		2437	15.320	2429.440	2444.760	0.5	PASS
		2462	13.800	2455.680	2469.480	0.5	PASS



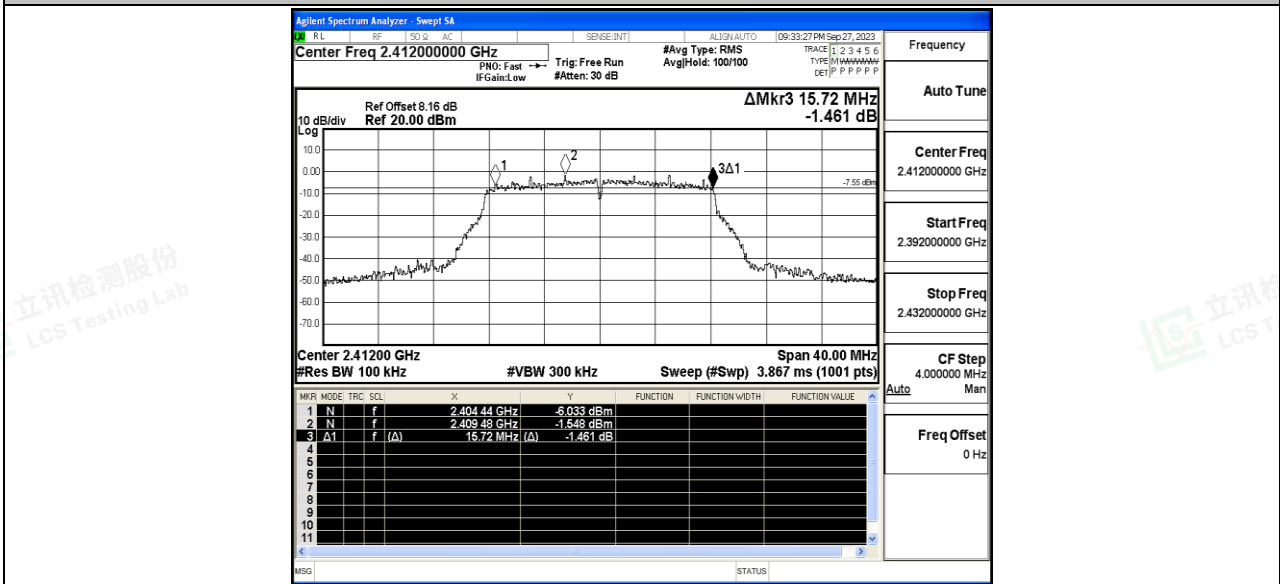


Test Graphs



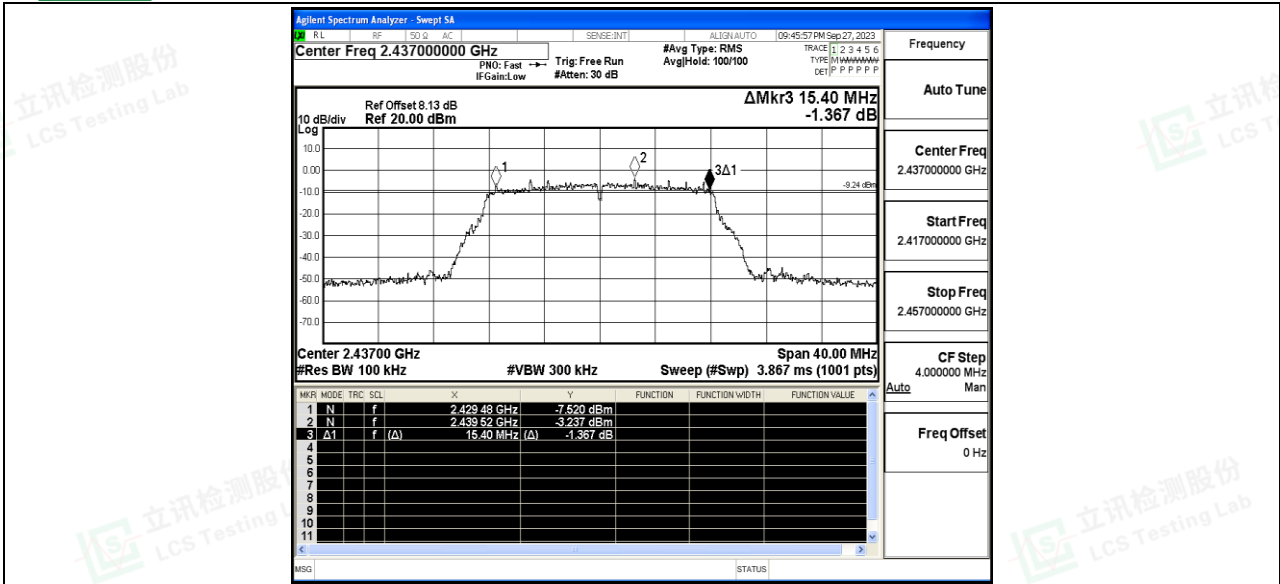


11G_Ant_2412

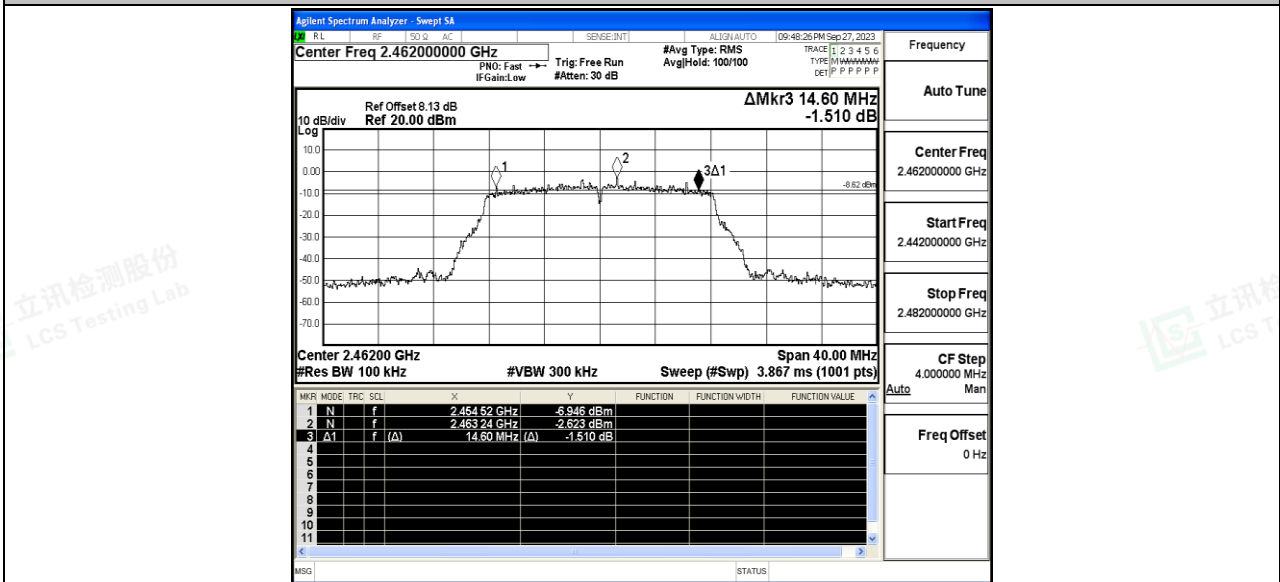


11G_Ant_2437



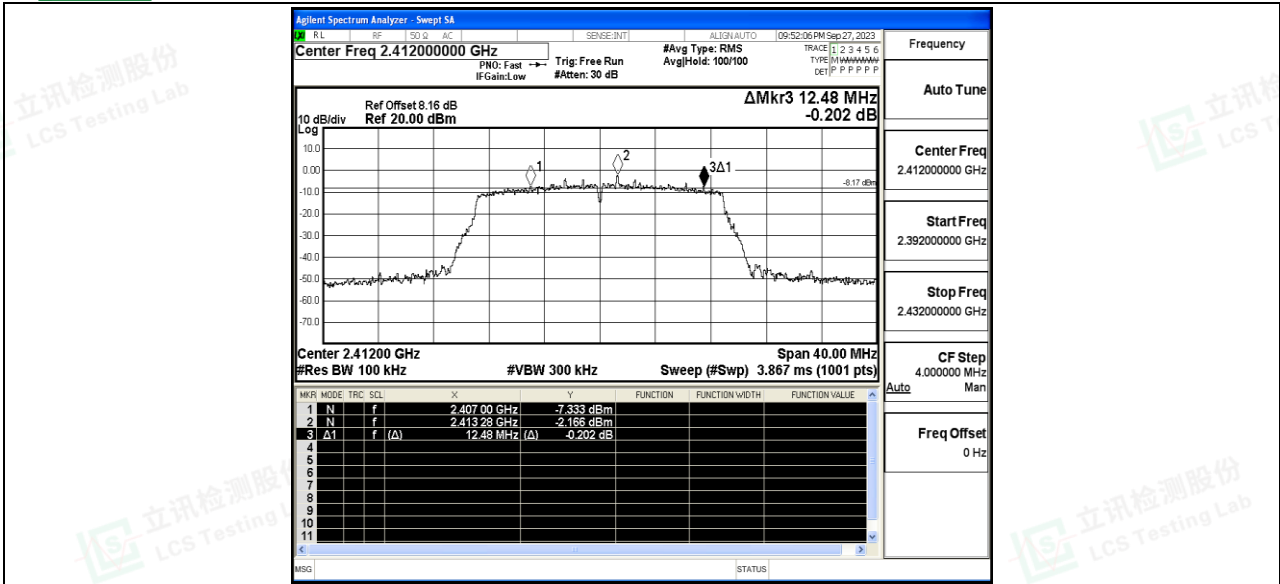


11G_Ant_2462

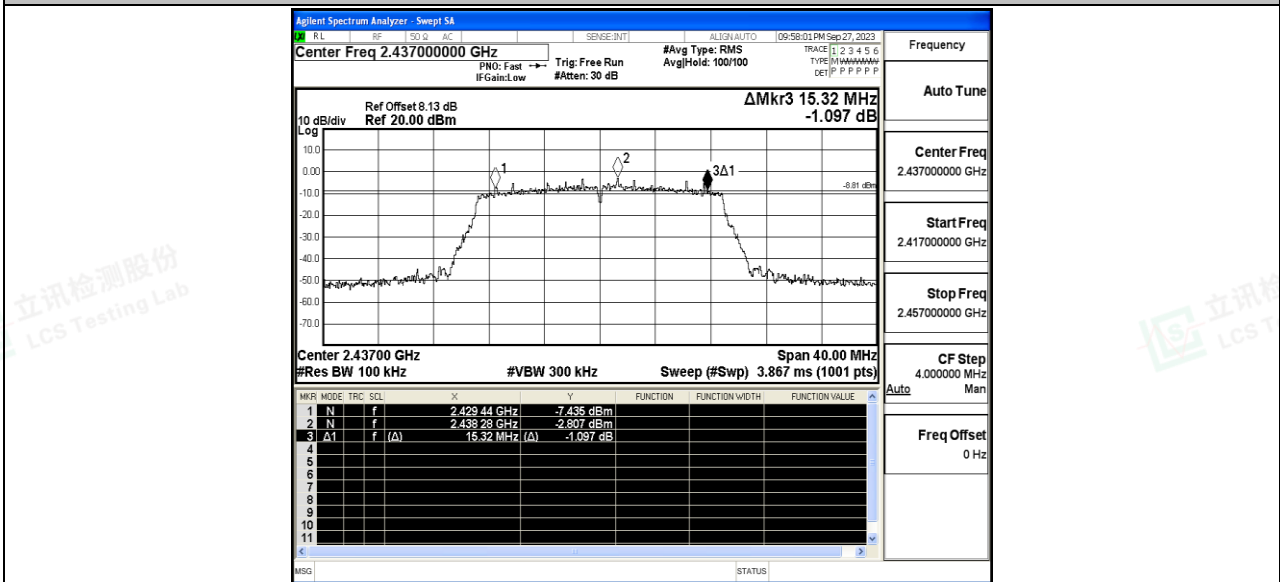


11N20SISO_Ant_2412



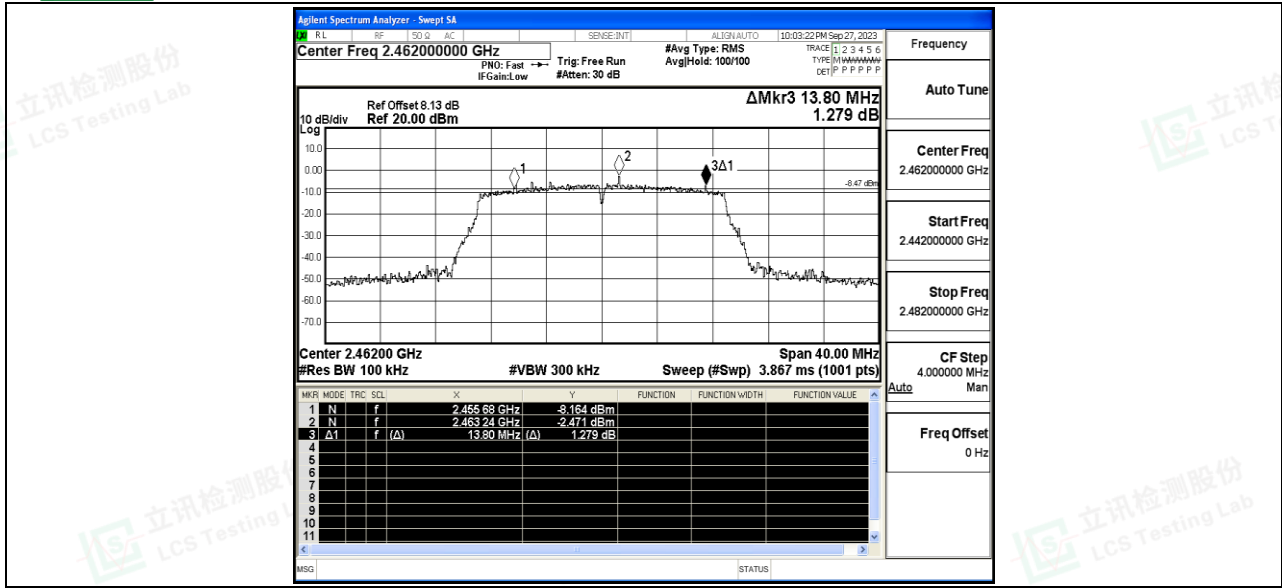


11N20SISO_Ant_2437



11N20SISO_Ant_2462







C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant	2412	14.84	≤30.00	PASS
		2437	14.75	≤30.00	PASS
		2462	13.74	≤30.00	PASS
11G	Ant	2412	14.18	≤30.00	PASS
		2437	14.09	≤30.00	PASS
		2462	14.23	≤30.00	PASS
11N20SISO	Ant	2412	14.26	≤30.00	PASS
		2437	14.15	≤30.00	PASS
		2462	14.00	≤30.00	PASS





C.3 Maximum power spectral density

Test Result

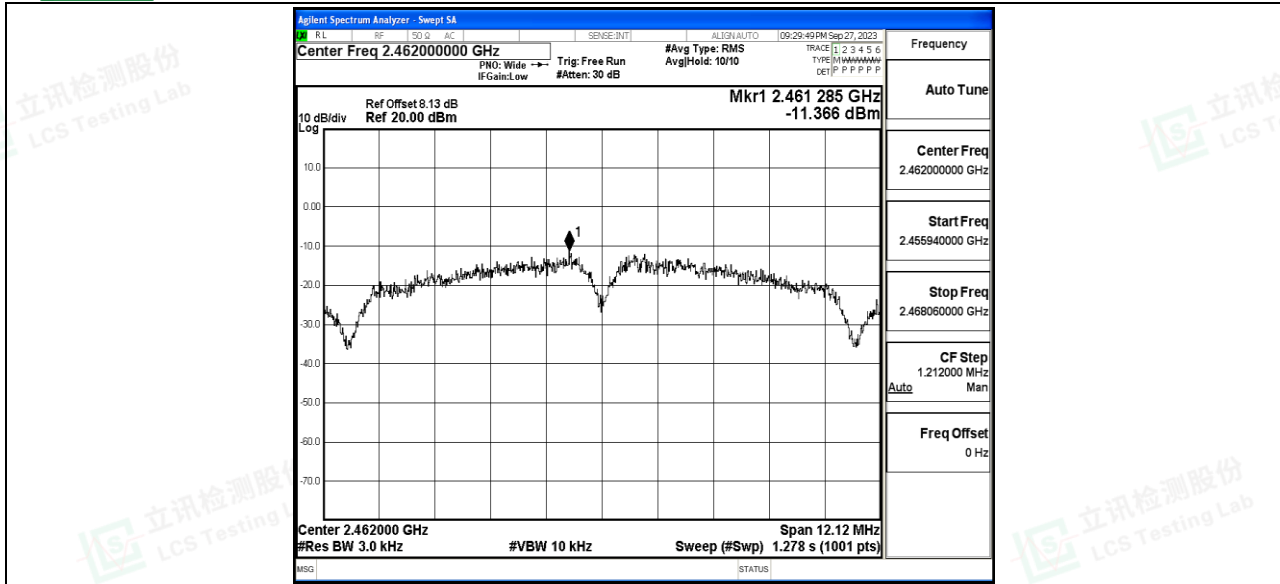
TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant	2412	-9.96	≤8.00	PASS
		2437	-9.39	≤8.00	PASS
		2462	-11.37	≤8.00	PASS
11G	Ant	2412	-16.5	≤8.00	PASS
		2437	-15.7	≤8.00	PASS
		2462	-16.62	≤8.00	PASS
11N20SISO	Ant	2412	-16.51	≤8.00	PASS
		2437	-16.78	≤8.00	PASS
		2462	-16.78	≤8.00	PASS



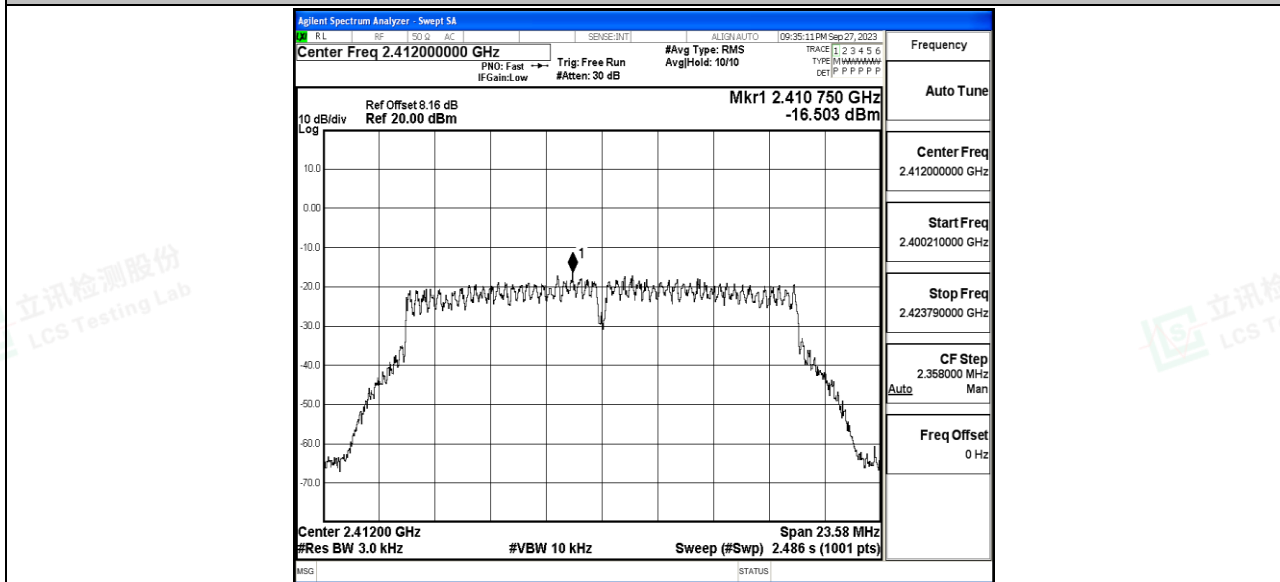


Test Graphs



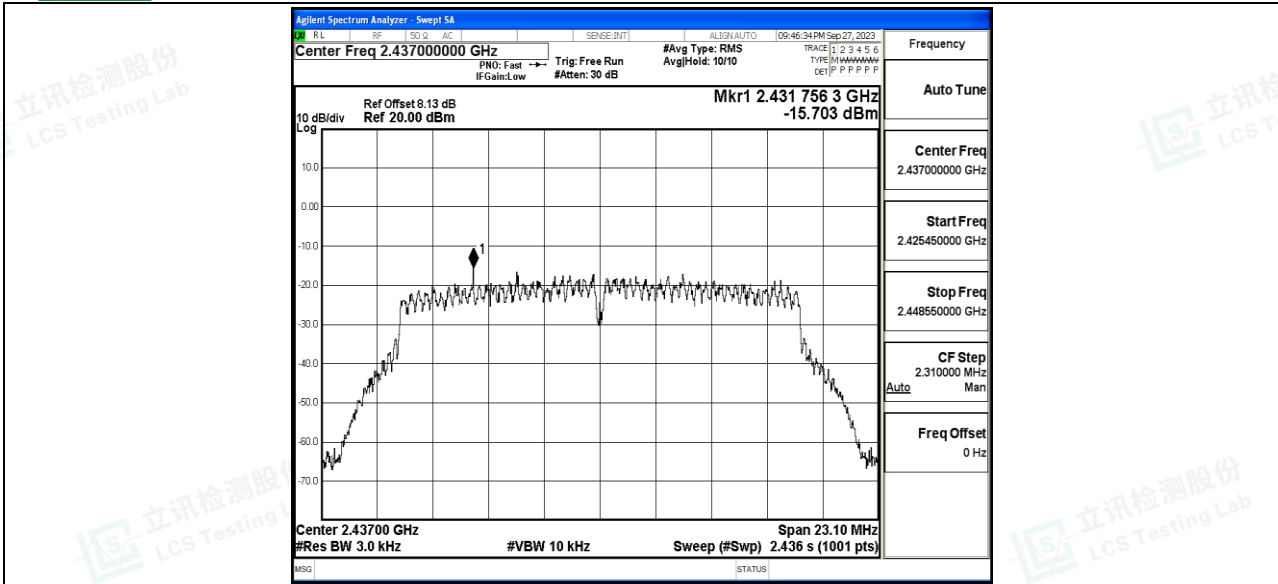


11G_Ant_2412

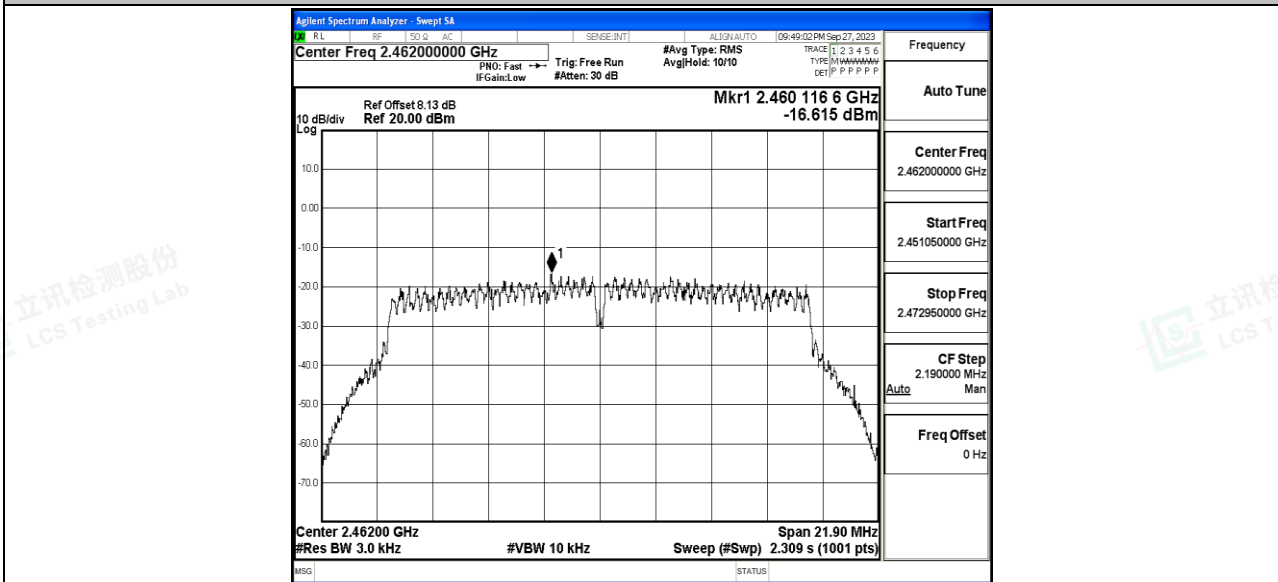


11G_Ant_2437



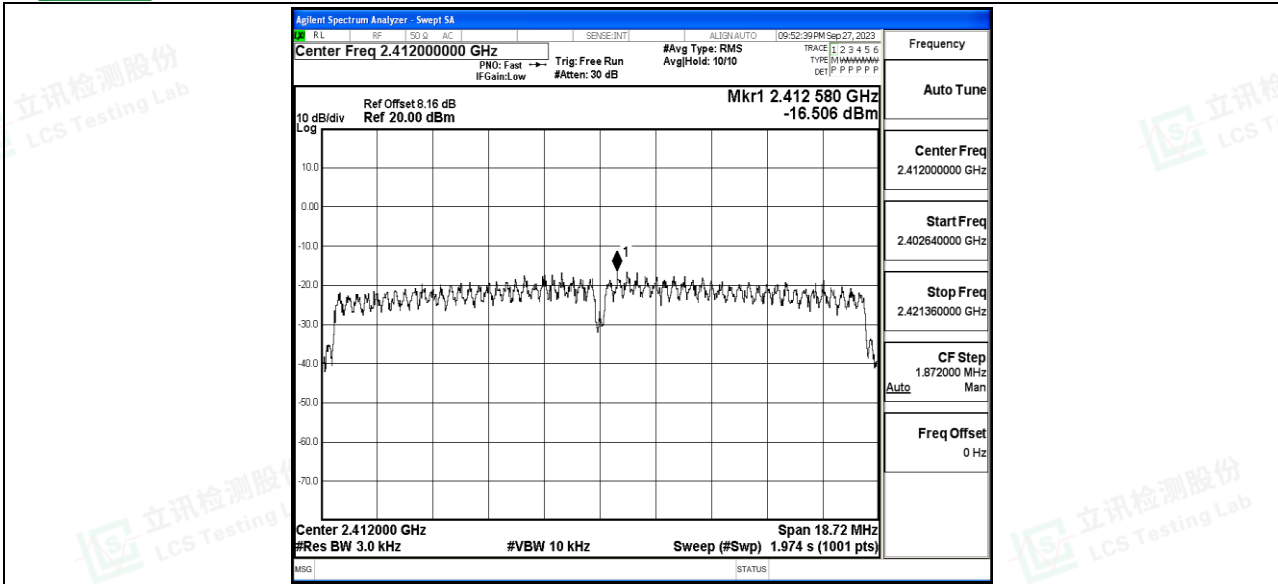


11G_Ant_2462

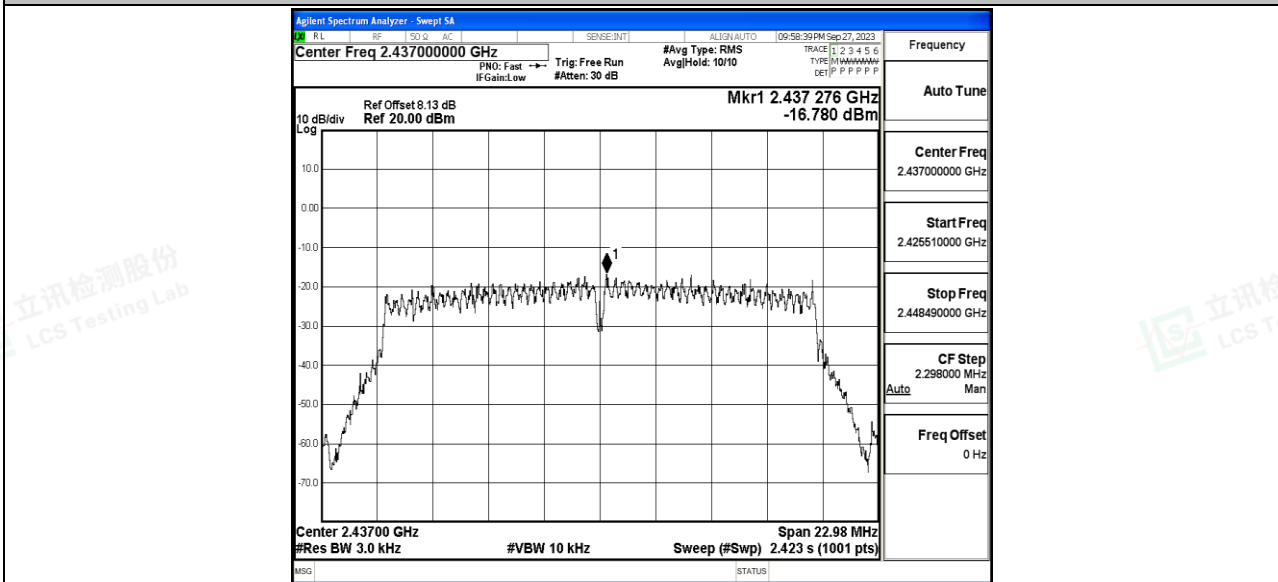


11N20SISO_Ant_2412



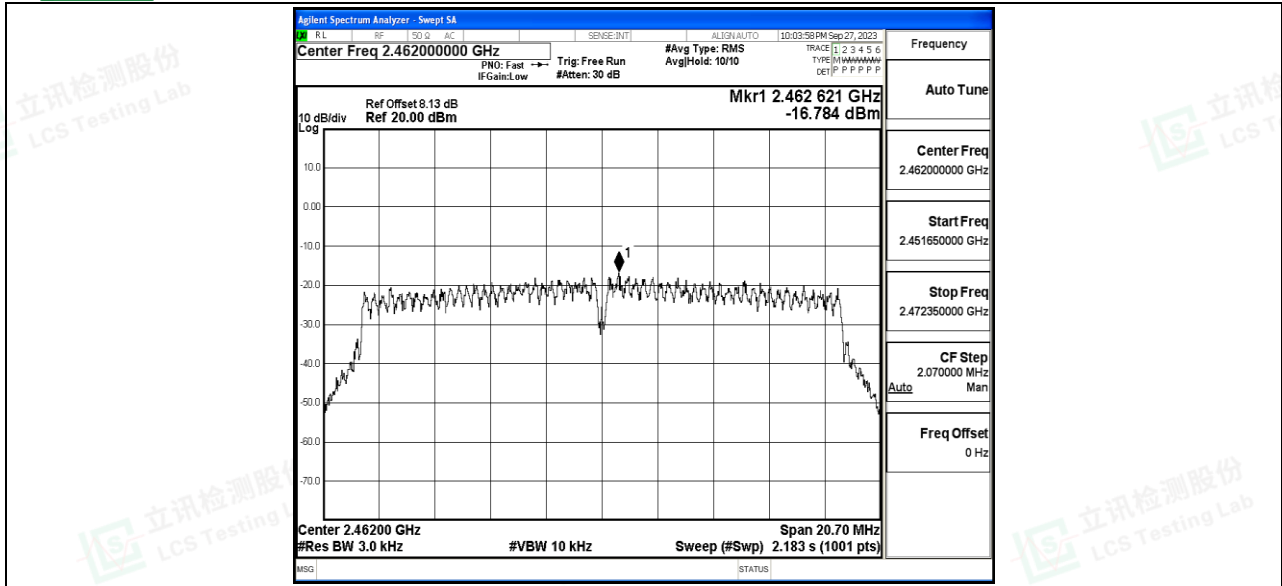


11N20SISO_Ant_2437



11N20SISO_Ant_2462







C.4 Band edge measurements

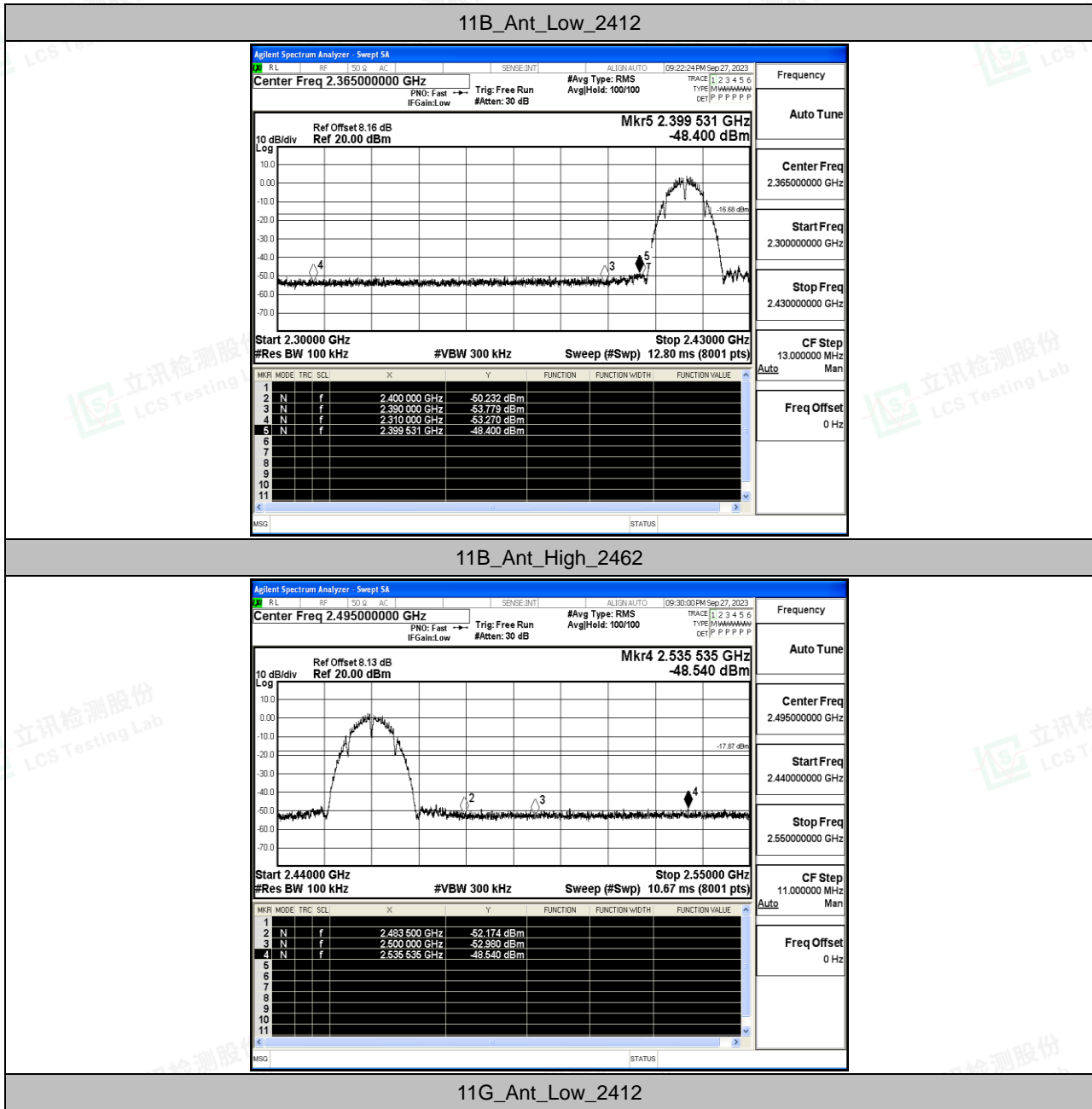
Test Result

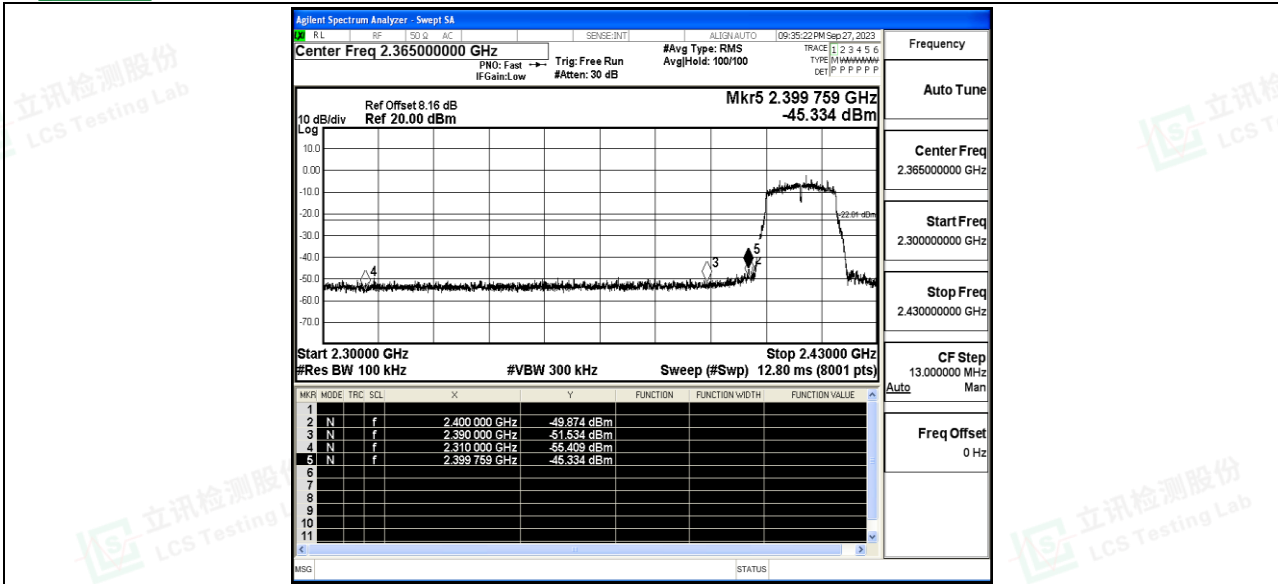
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	3.32	-48.4	≤-16.68	PASS
		High	2462	2.13	-48.54	≤-17.87	PASS
11G	Ant	Low	2412	-2.81	-45.33	≤-22.81	PASS
		High	2462	-3.27	-48.89	≤-23.27	PASS
11N20SISO	Ant	Low	2412	-2.96	-45.53	≤-22.96	PASS
		High	2462	-2.48	-48.8	≤-22.48	PASS



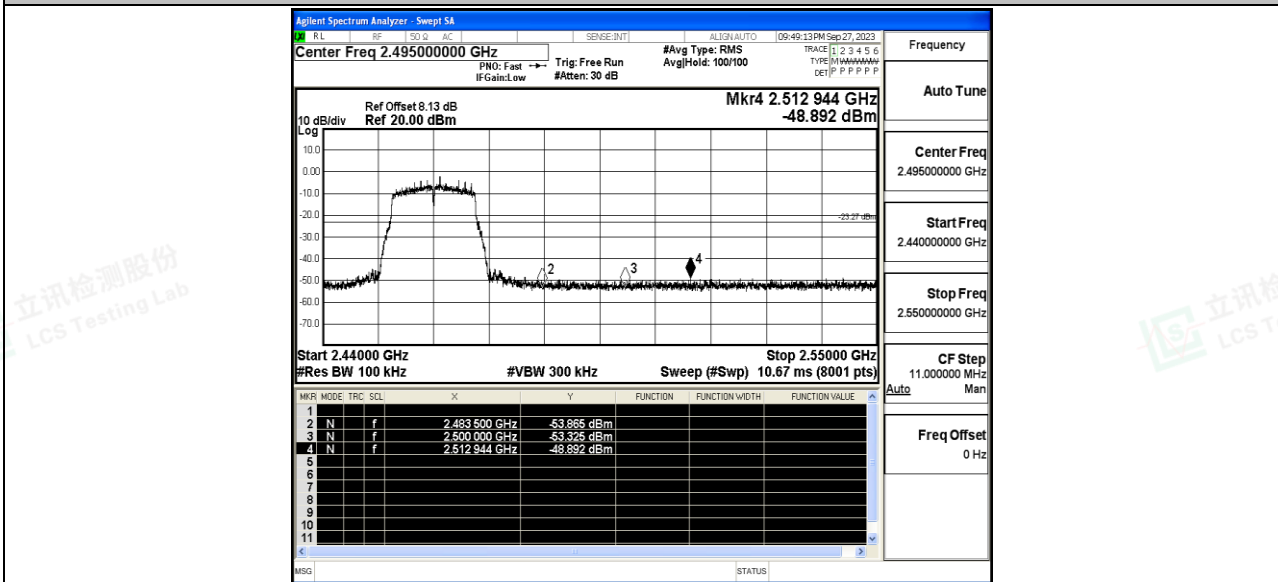


Test Graphs



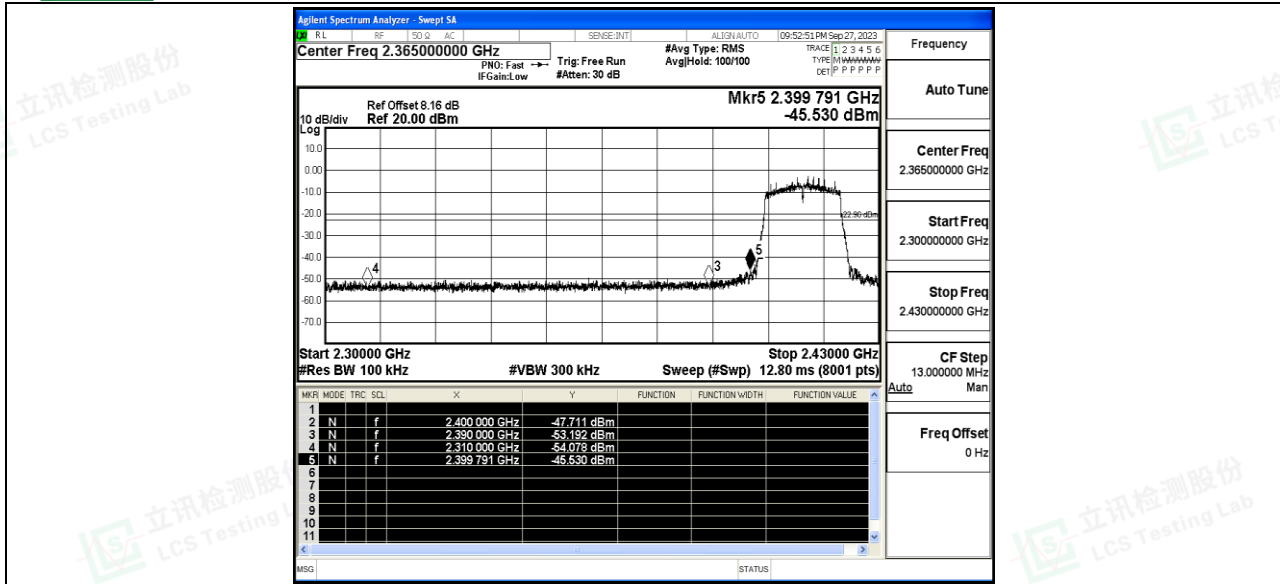


11G_Ant_High_2462

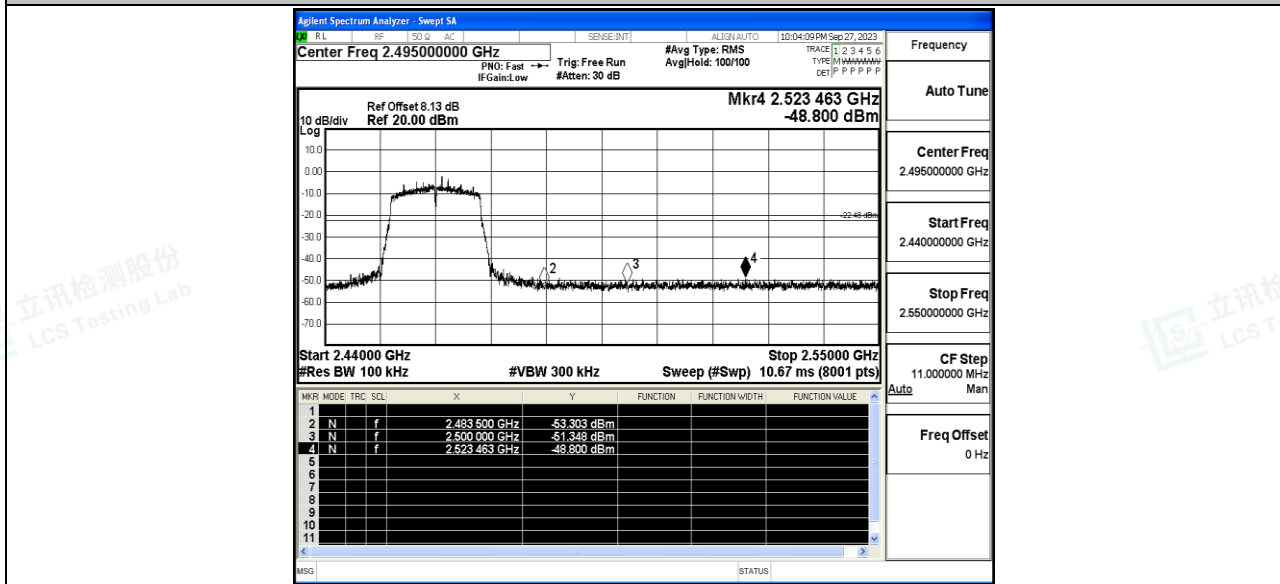


11N20SISO_Ant_Low_2412





11N20SIS0_Ant_High_2462





C.5 Conducted Spurious Emission

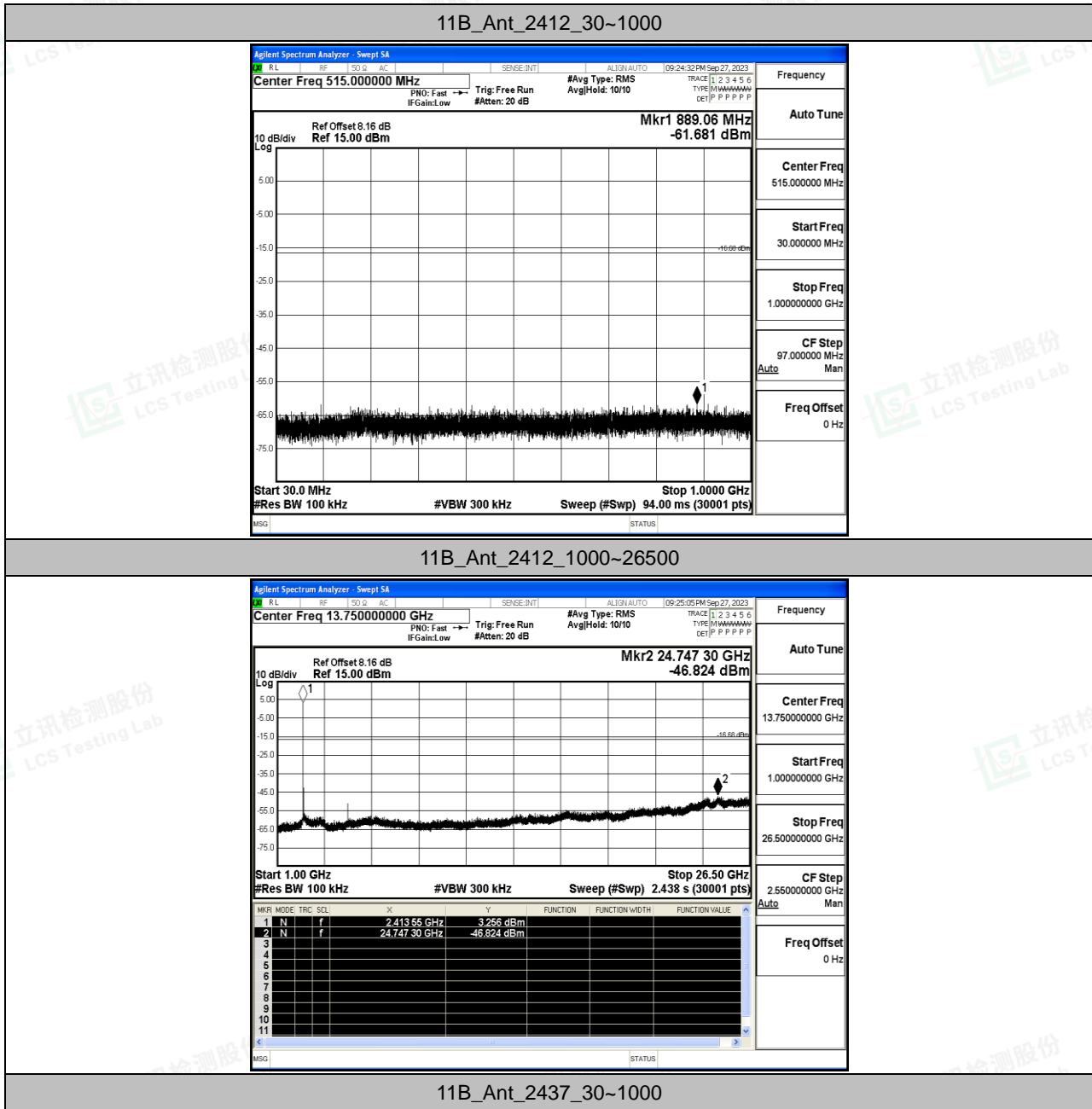
Test Result

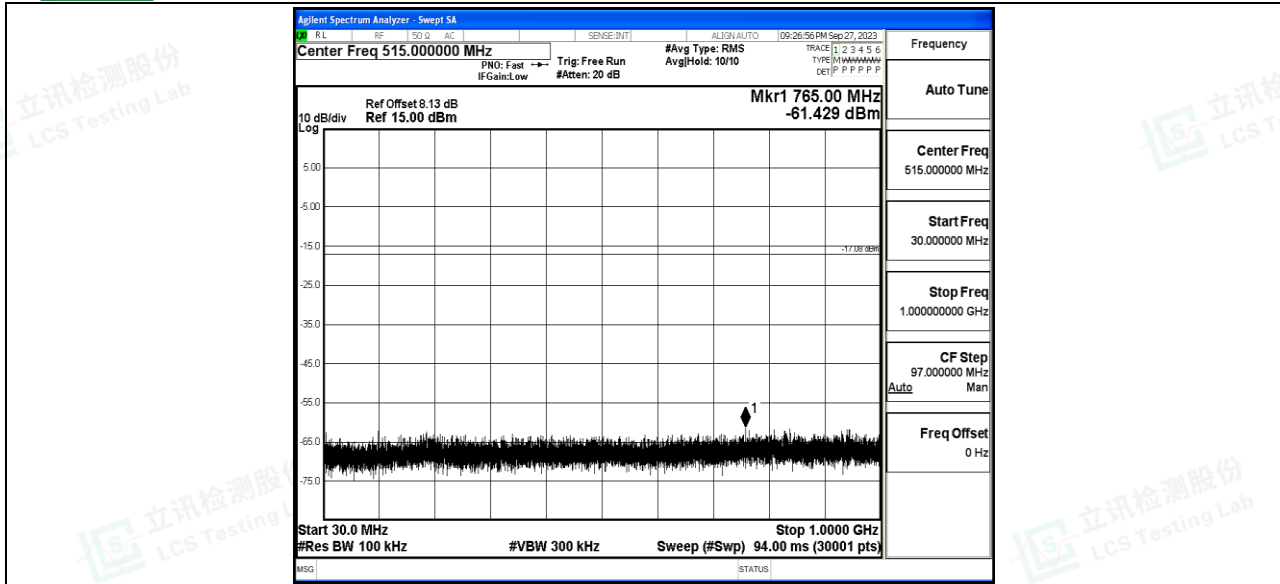
TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	30~1000	3.32	-61.68	≤-16.68	PASS
			1000~26500	3.32	-46.82	≤-16.68	PASS
		2437	30~1000	2.92	-61.43	≤-17.08	PASS
			1000~26500	2.92	-46.93	≤-17.08	PASS
		2462	30~1000	2.13	-61.35	≤-17.87	PASS
			1000~26500	2.13	-46.89	≤-17.87	PASS
11G	Ant	2412	30~1000	-2.81	-61.72	≤-22.81	PASS
			1000~26500	-2.81	-46.67	≤-22.81	PASS
		2437	30~1000	-3.49	-61.73	≤-23.49	PASS
			1000~26500	-3.49	-47.12	≤-23.49	PASS
		2462	30~1000	-3.27	-61.25	≤-23.27	PASS
			1000~26500	-3.27	-47.02	≤-23.27	PASS
11N20SISO	Ant	2412	30~1000	-2.96	-61.04	≤-22.96	PASS
			1000~26500	-2.96	-46.63	≤-22.96	PASS
		2437	30~1000	-2.08	-61.21	≤-22.08	PASS
			1000~26500	-2.08	-46.37	≤-22.08	PASS
		2462	30~1000	-2.48	-61.06	≤-22.48	PASS
			1000~26500	-2.48	-46.36	≤-22.48	PASS



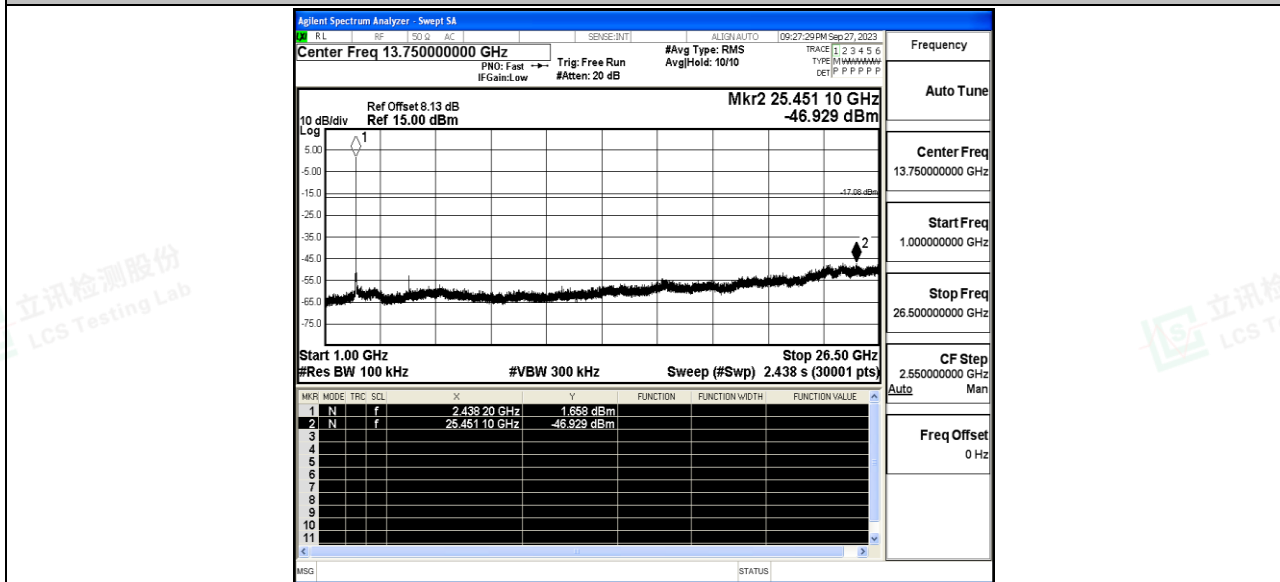


Test Graphs



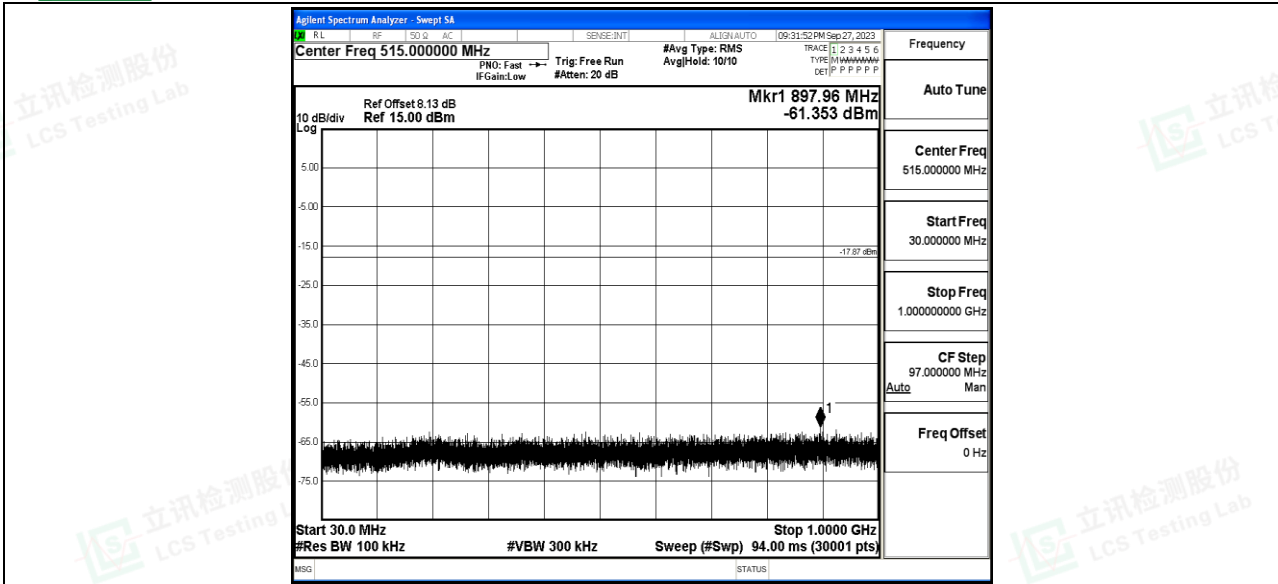


11B_Ant_2437_1000~26500

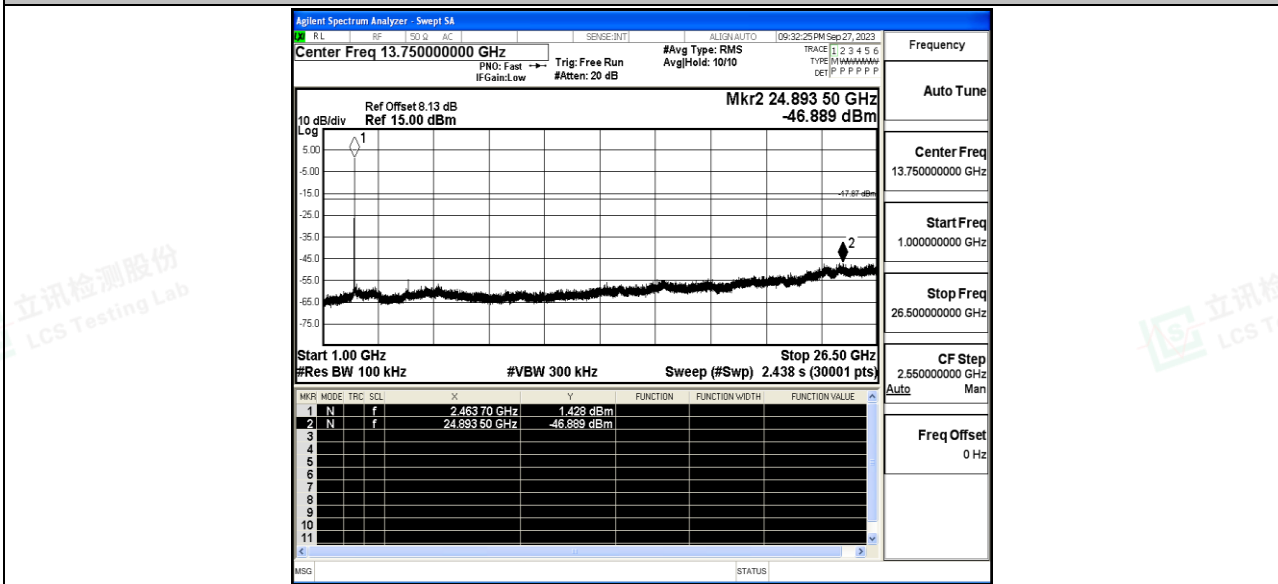


11B_Ant_2462_30~1000



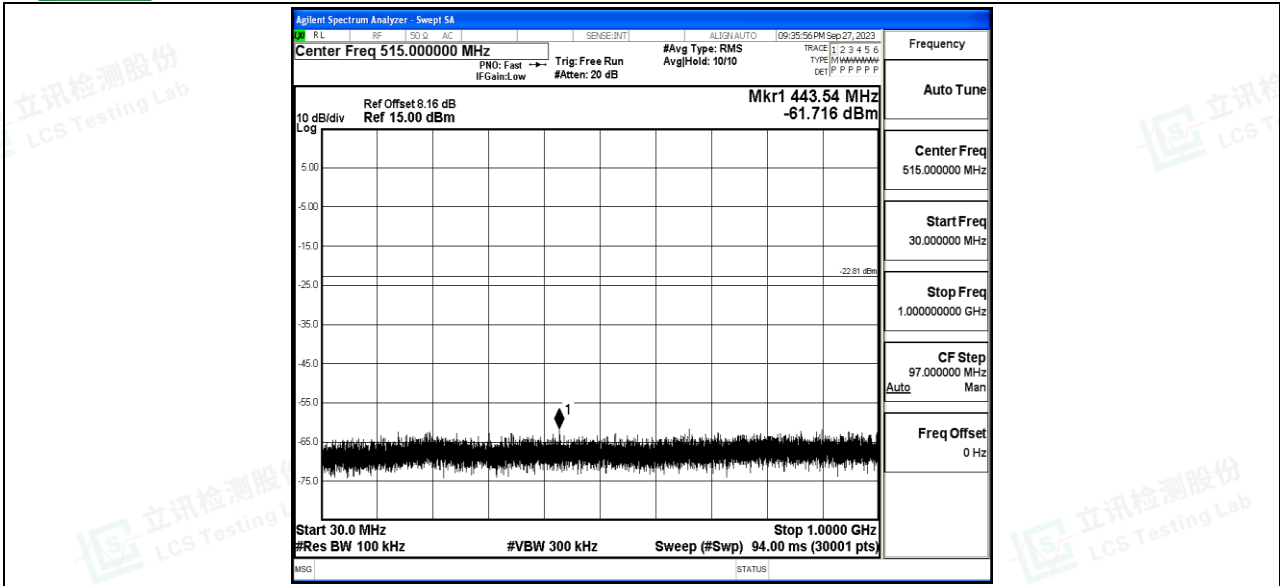


11B_Ant_2462_1000~26500

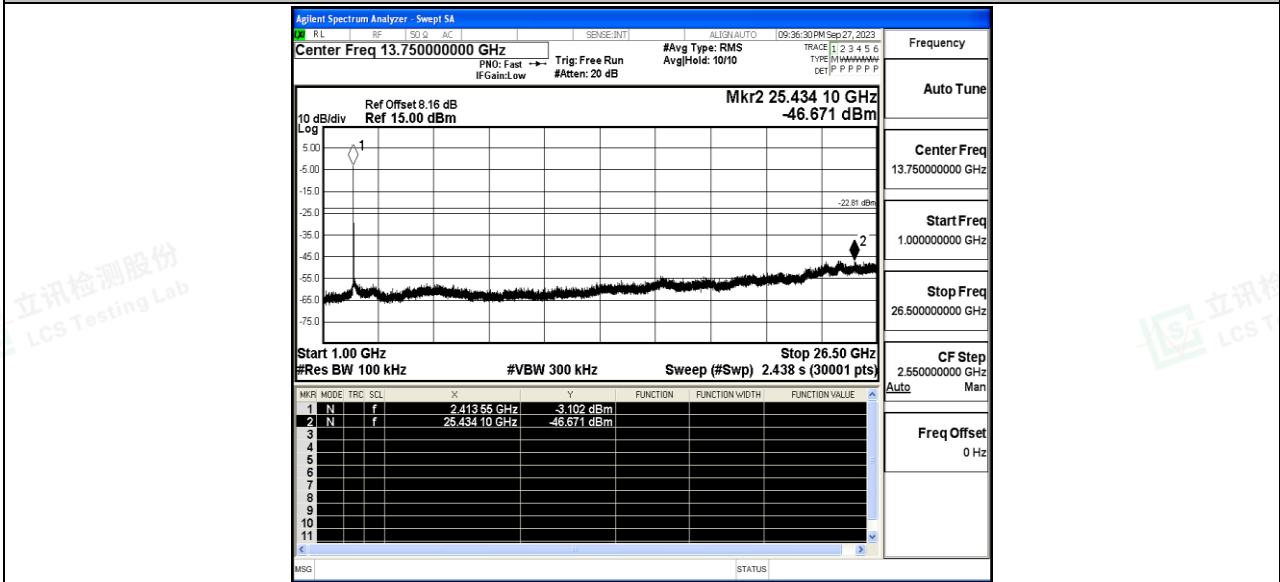


11G_Ant_2412_30~1000



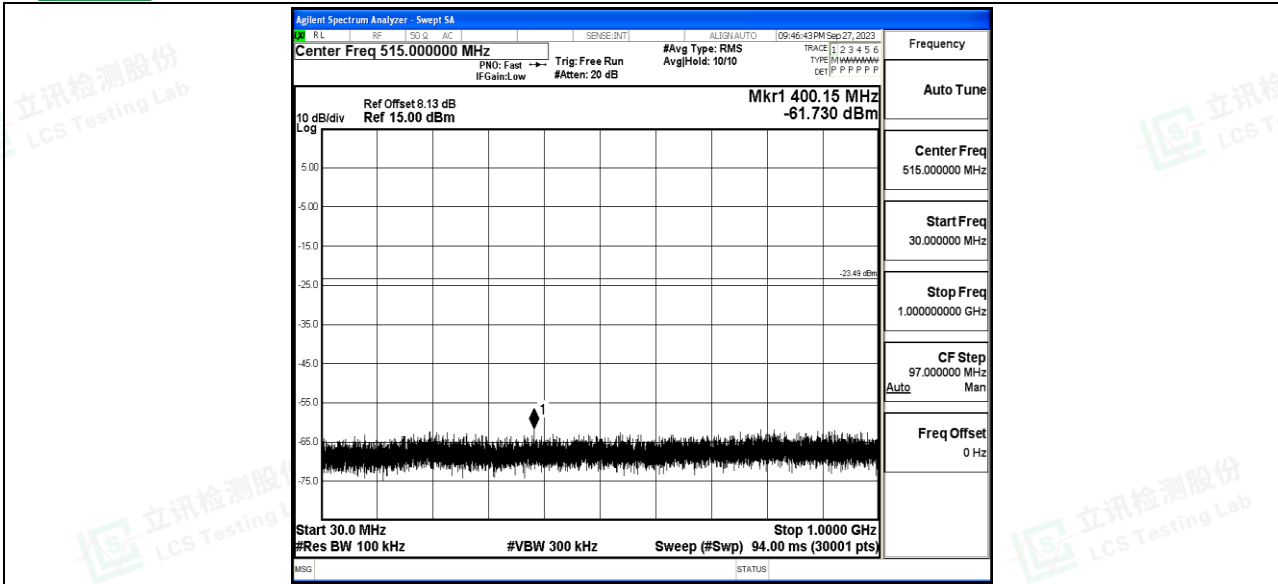


11G_Ant_2412_1000~26500

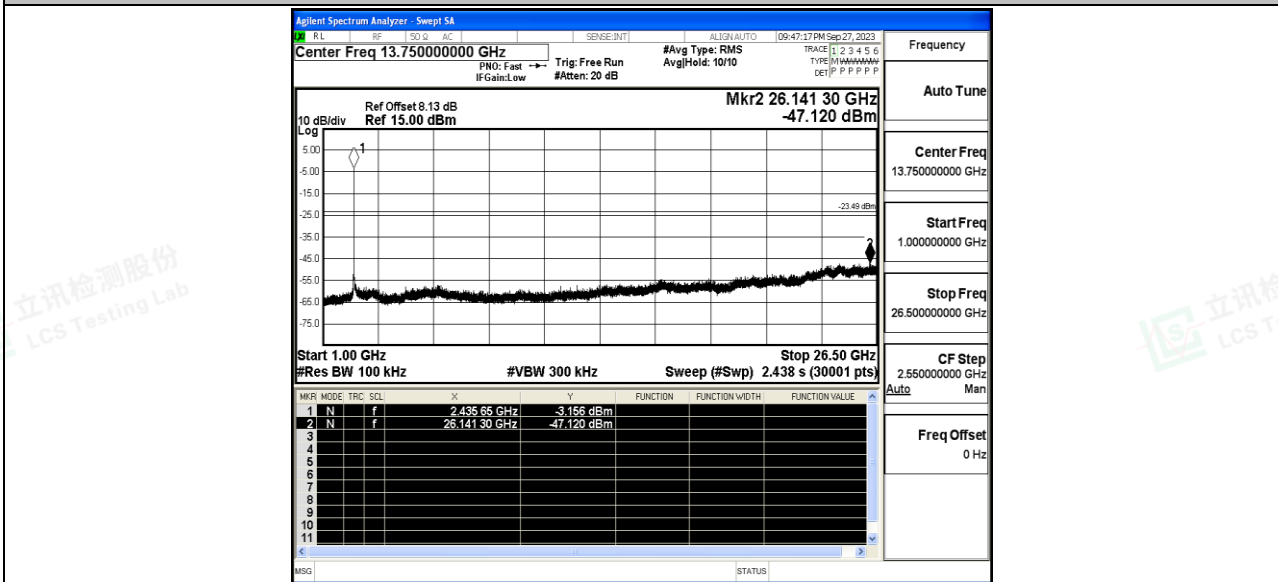


11G_Ant_2437_30~1000



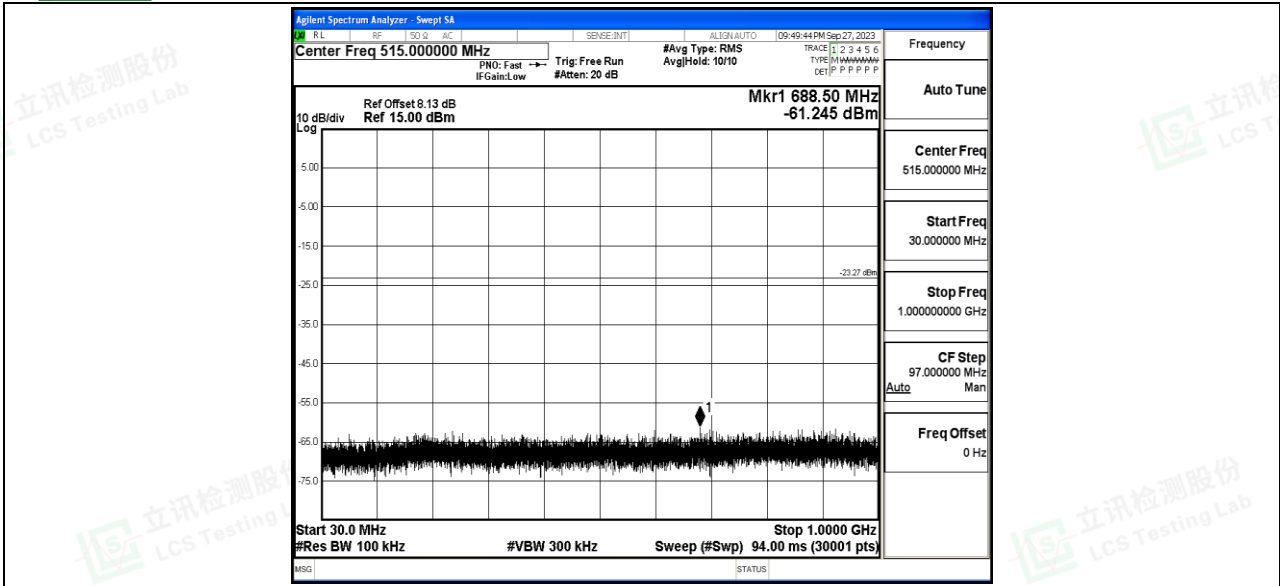


11G_Ant_2437_1000~26500

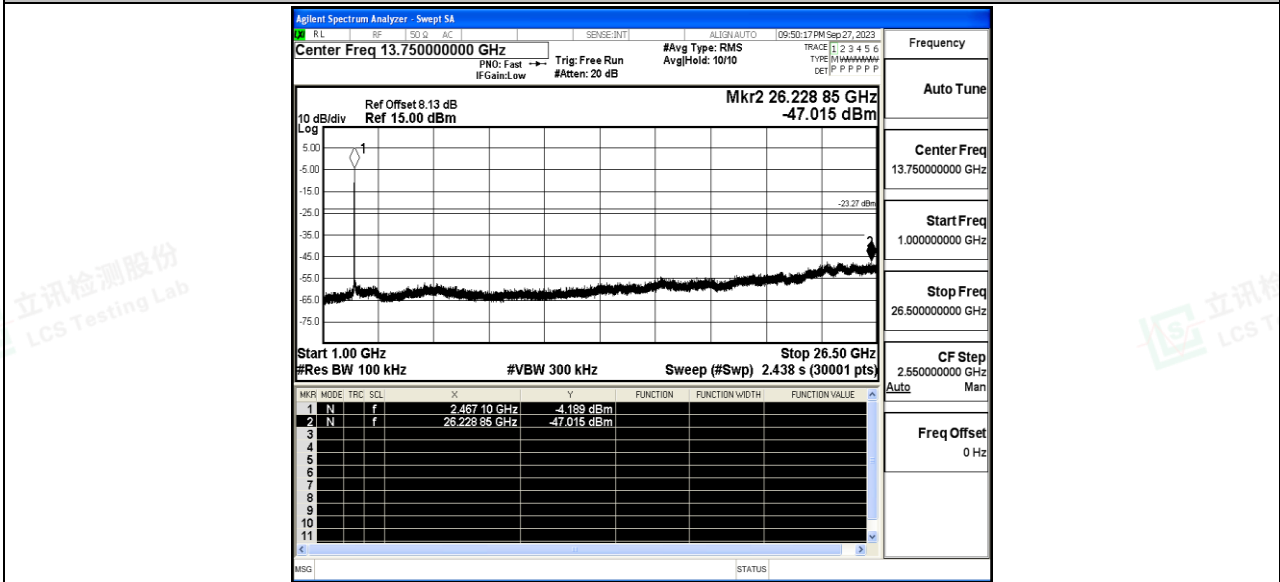


11G_Ant_2462_30~1000



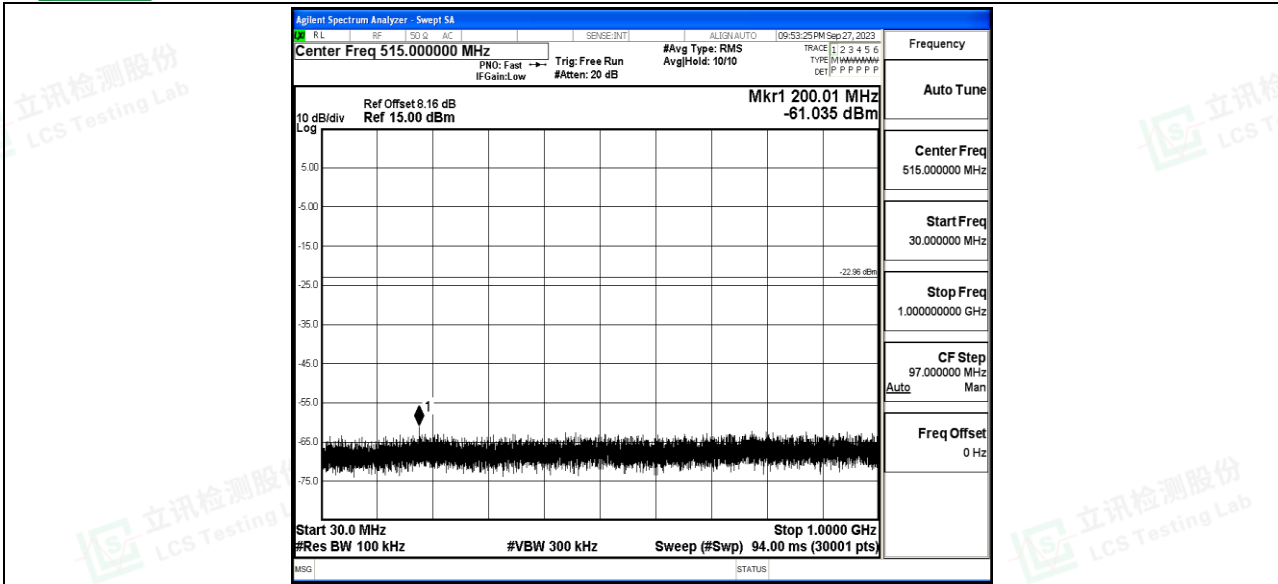


11G_Ant_2462_1000~26500

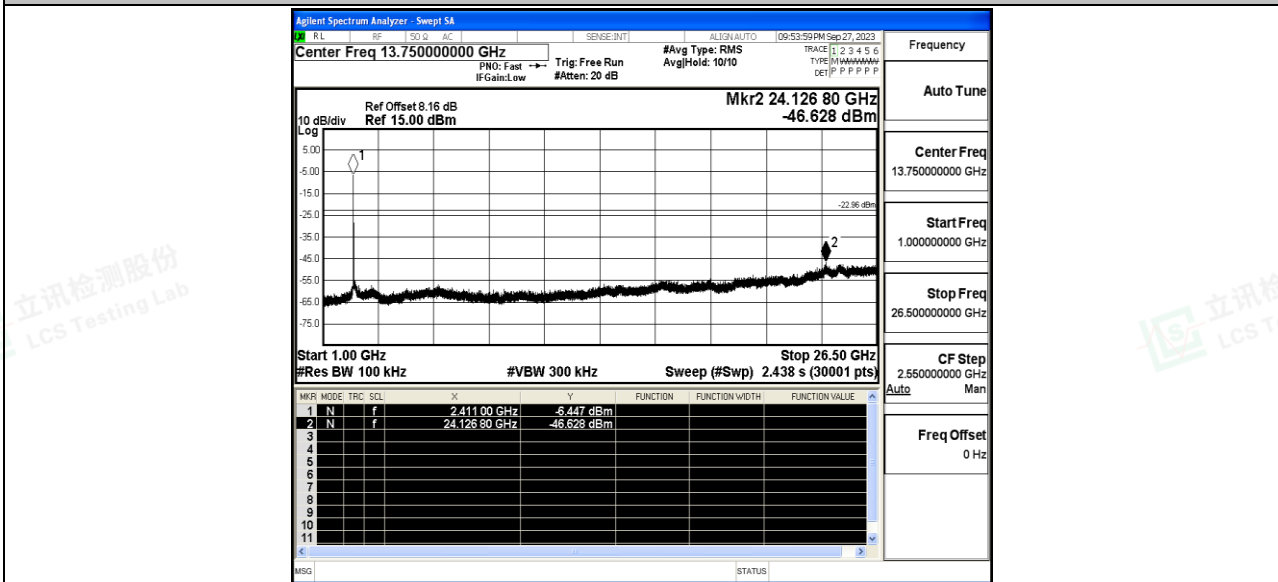


11N20SISO_Ant_2412_30~1000



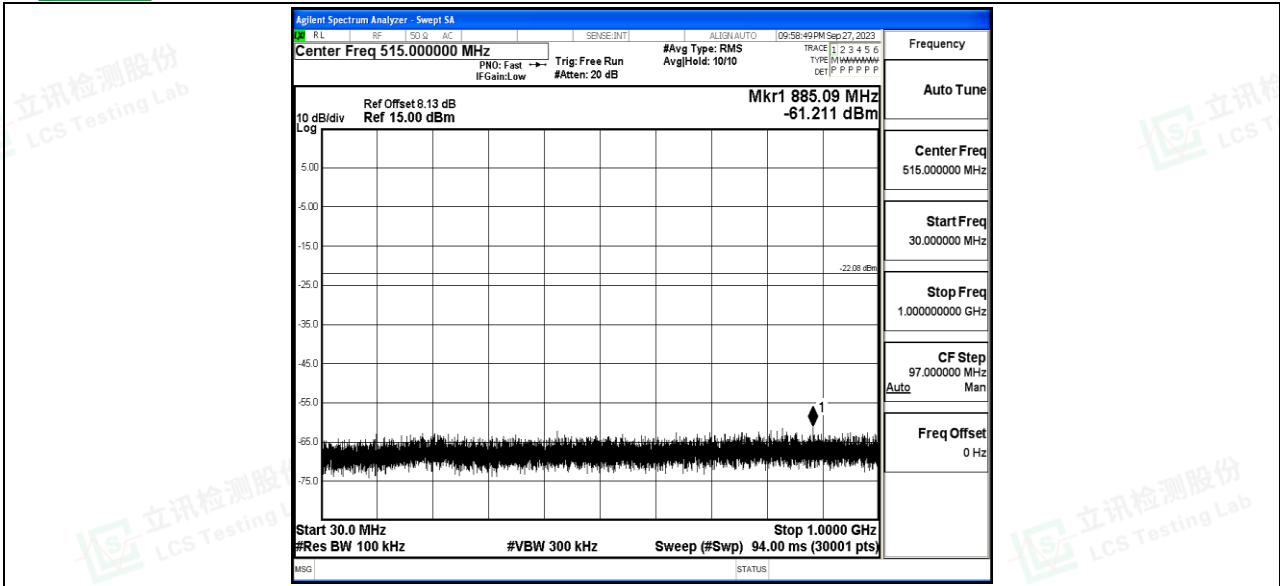


11N20SISO_Ant_2412_1000~26500

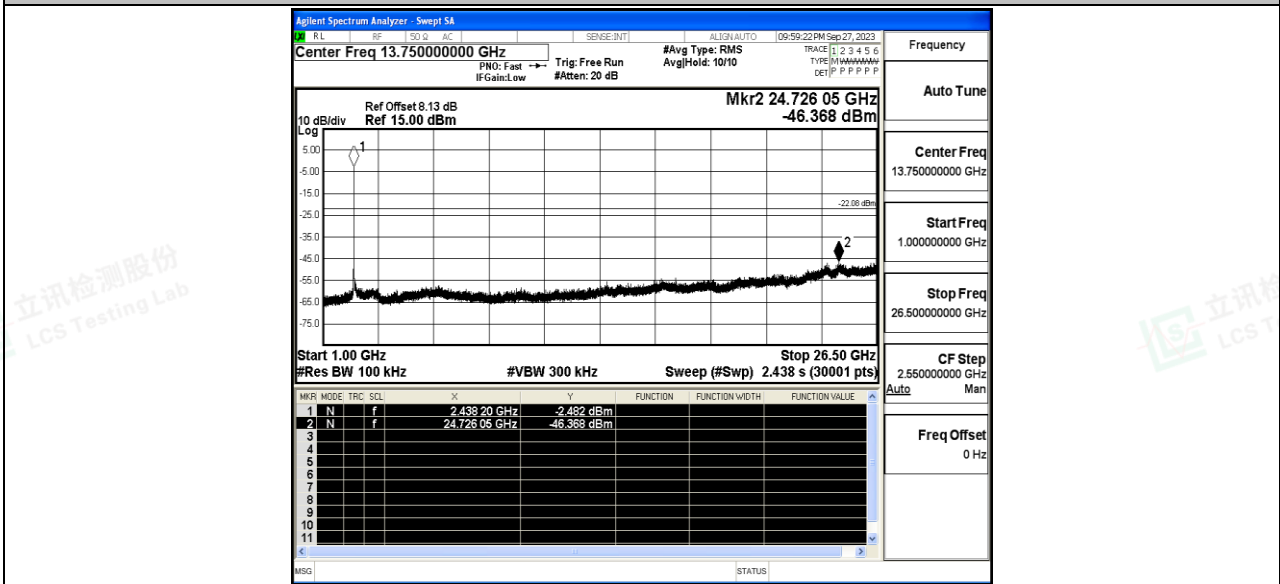


11N20SISO_Ant_2437_30~1000



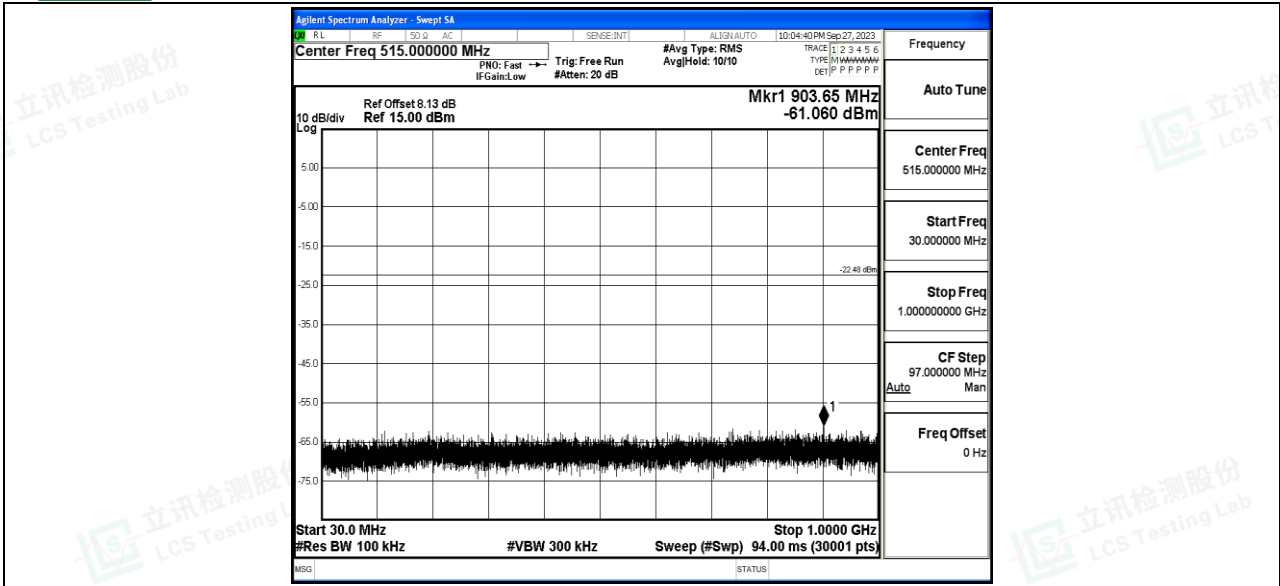


11N20SISO_Ant_2437_1000~26500

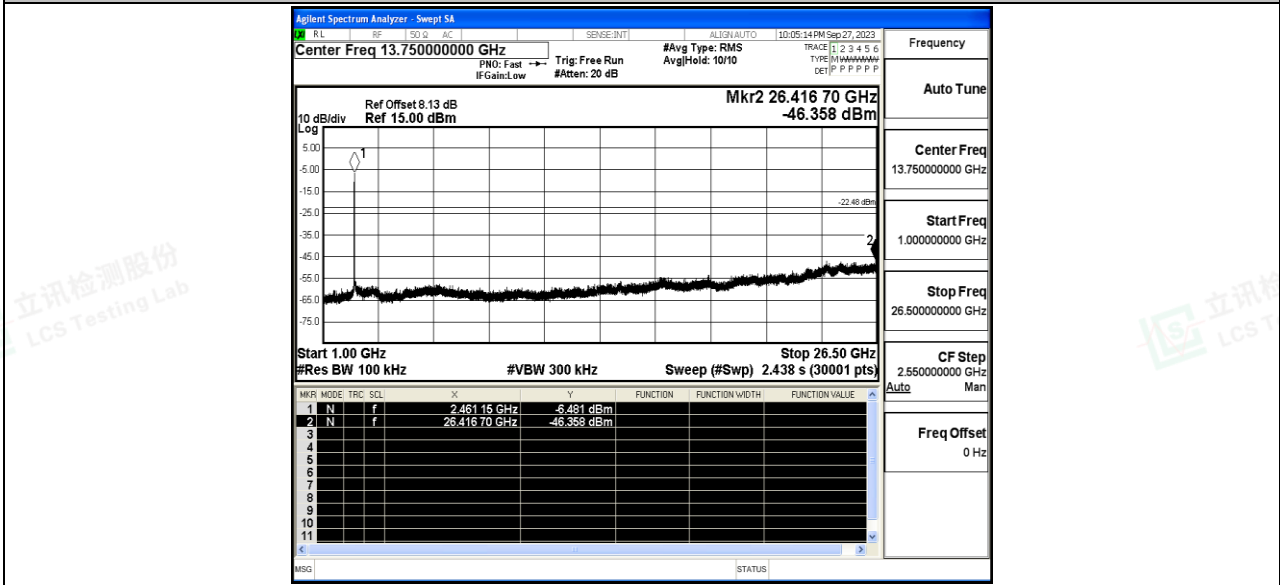


11N20SISO_Ant_2462_30~1000





11N20SISO_Ant_2462_1000~26500





C.6 Duty Cycle

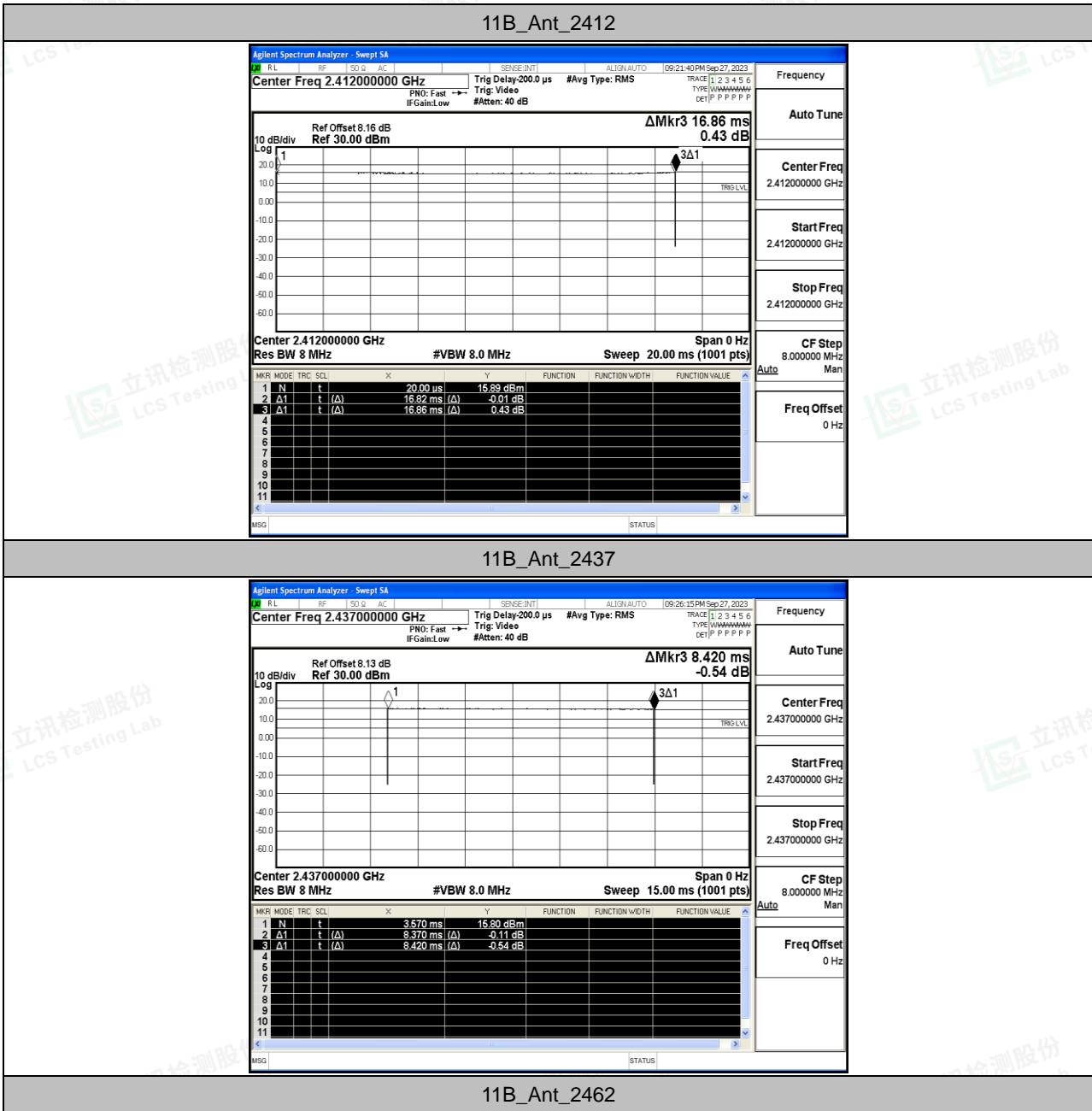
Test Result

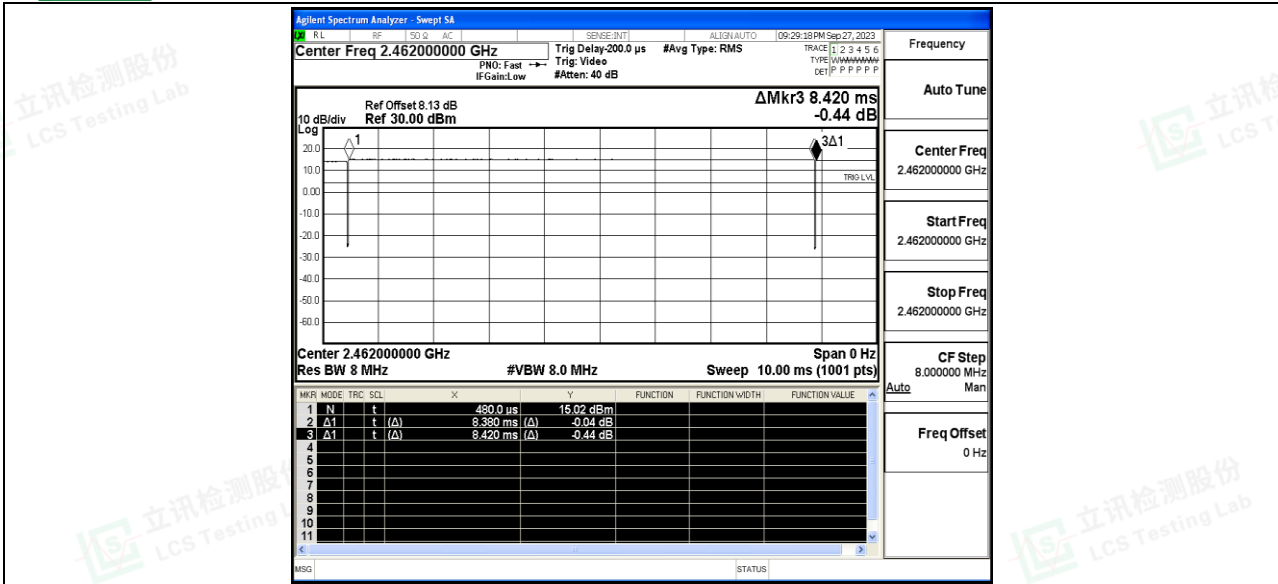
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	Verdict
11B	Ant	2412	16.82	16.86	99.76	0.01	---
		2437	8.37	8.42	99.41	0.03	---
		2462	8.38	8.42	99.52	0.02	---
11G	Ant	2412	1.40	1.44	97.22	0.12	---
		2437	1.39	1.44	96.53	0.15	---
		2462	1.39	1.44	96.53	0.15	---
11N20SISO	Ant	2412	1.28	1.33	96.24	0.17	---
		2437	1.29	1.33	96.99	0.13	---
		2462	1.29	1.33	96.99	0.13	---



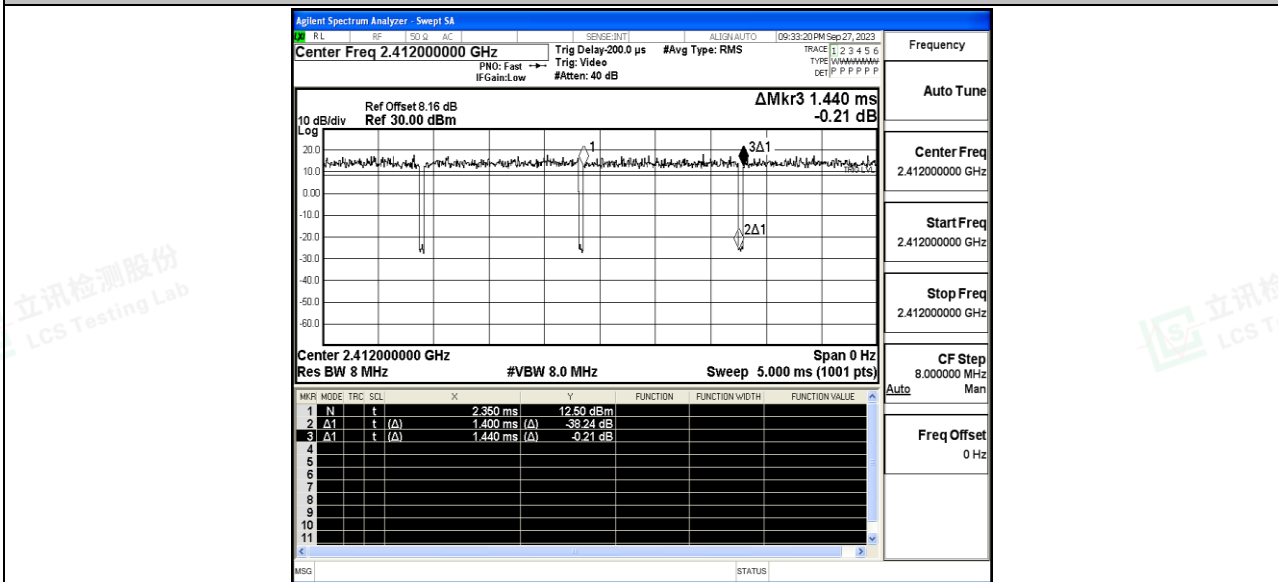


Test Graphs



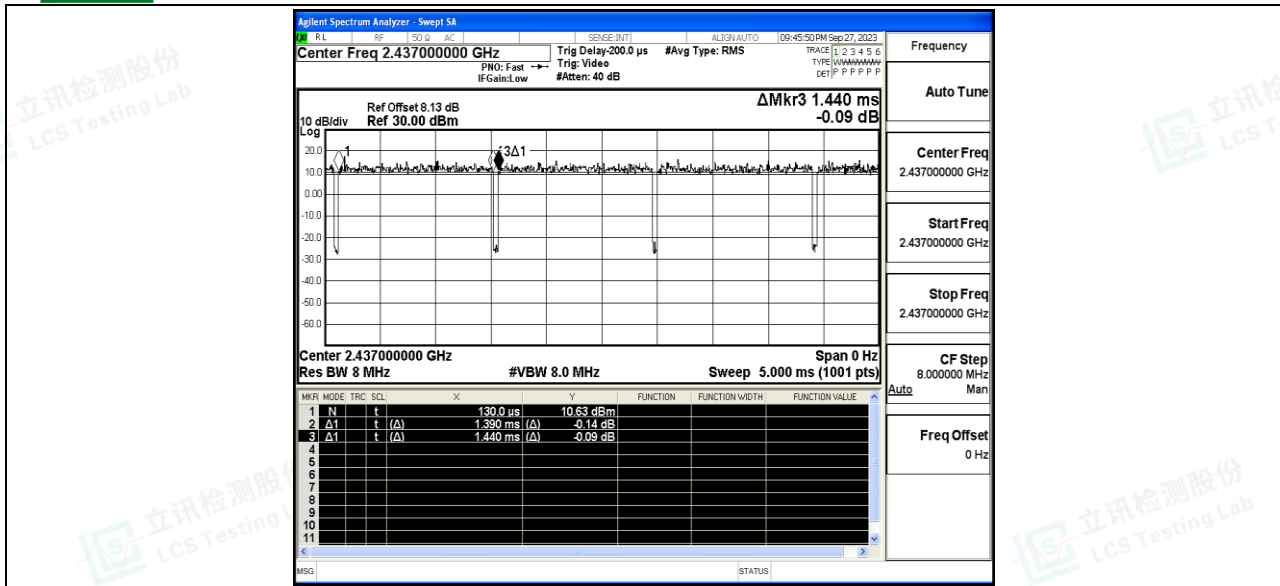


11G_Ant_2412

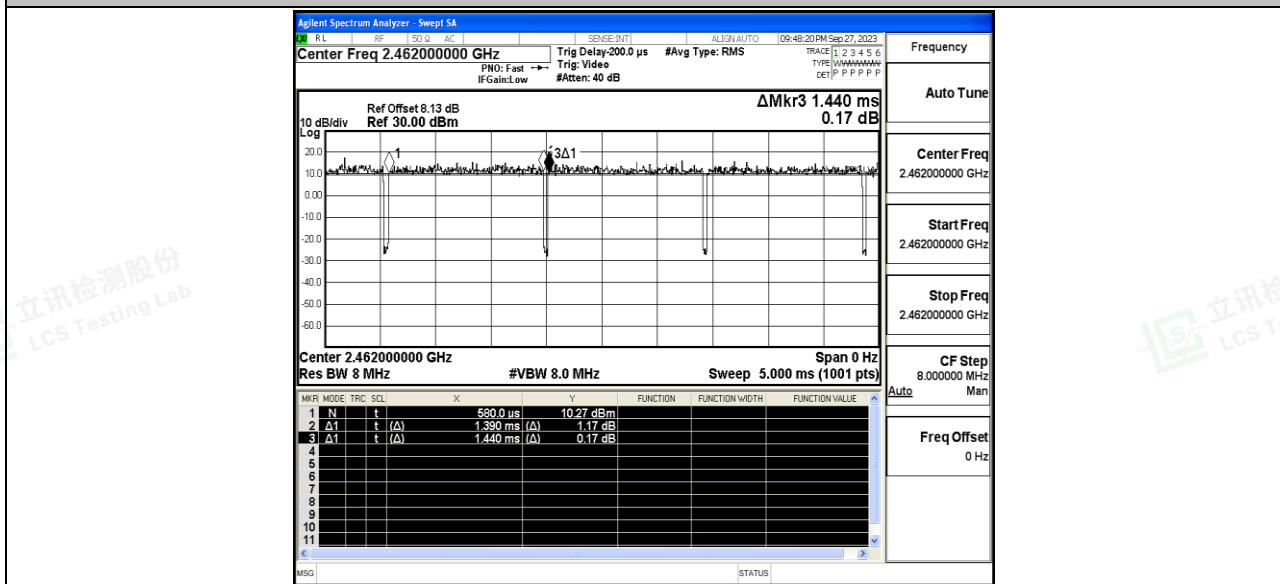


11G_Ant_2437



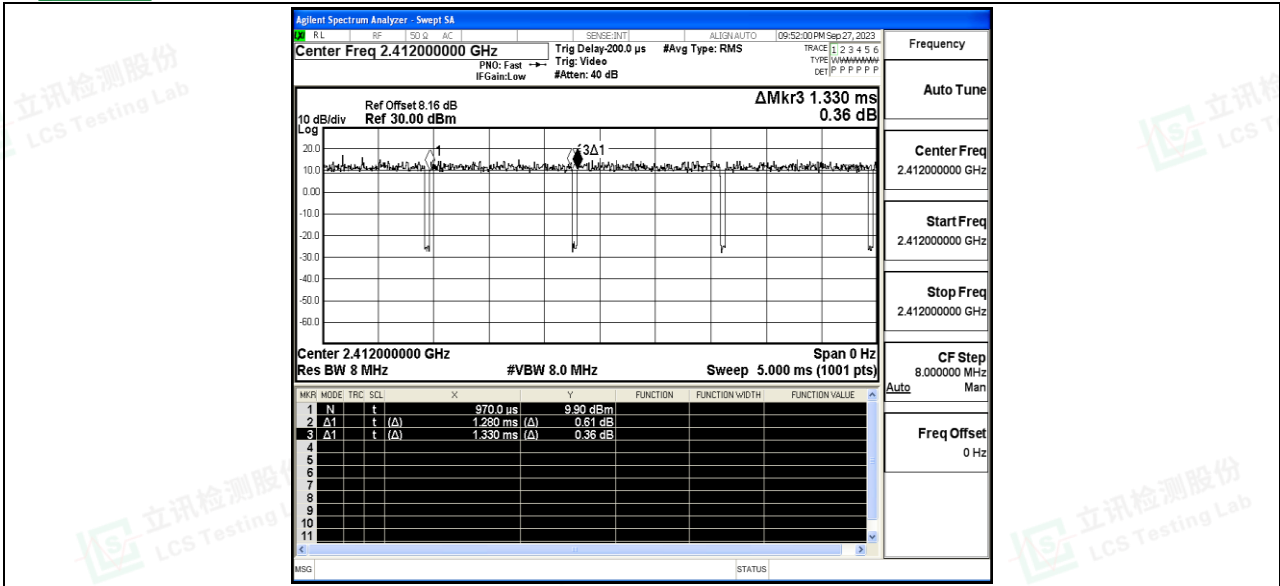


11G_Ant_2462

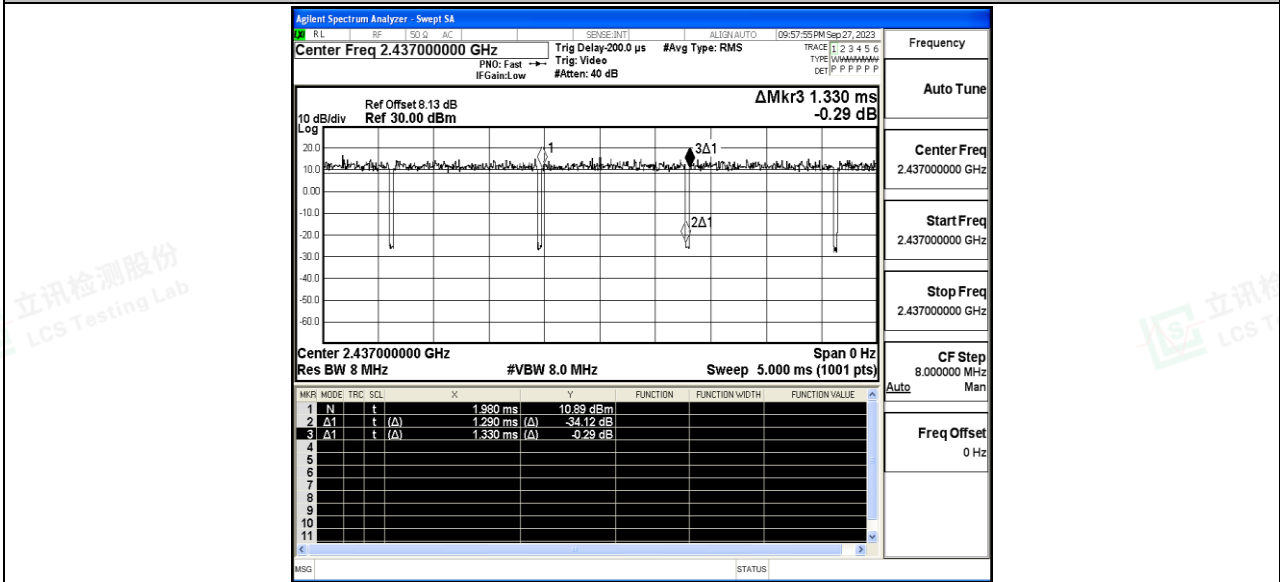


11N20SISO_Ant_2412



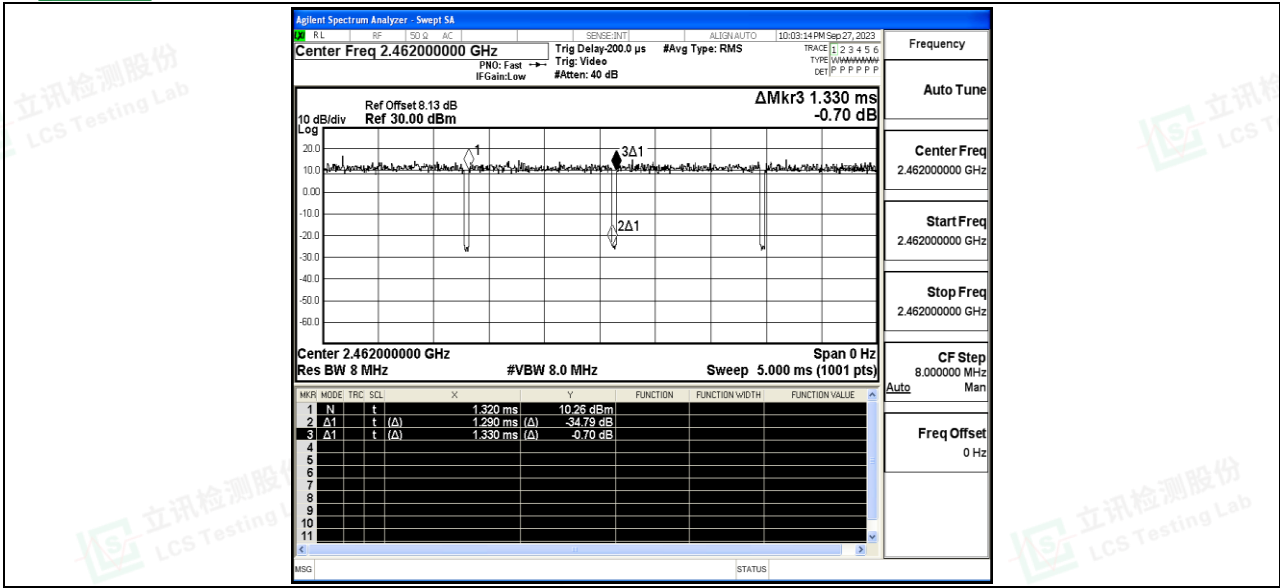


11N20SISO_Ant_2437



11N20SISO_Ant_2462





**C.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	Ant	Low	2412	AV	2310.000	-48.97	≤-41.20	46.23	≤54	PASS
				AV	2388.400	-48.28	≤-41.20	46.92	≤54	PASS
				AV	2390.000	-48.31	≤-41.20	46.89	≤54	PASS
				Peak	2310.000	-43.16	≤-21.20	52.04	≤74	PASS
				Peak	2361.360	-39.12	≤-21.20	56.08	≤74	PASS
				Peak	2390.000	-40.54	≤-21.20	54.66	≤74	PASS
		High	2462	AV	2483.500	-47.9	≤-41.20	47.30	≤54	PASS
				AV	2499.840	-47.67	≤-41.20	47.53	≤54	PASS
				AV	2500.000	-47.69	≤-41.20	47.51	≤54	PASS
				Peak	2483.500	-42.14	≤-21.20	53.06	≤74	PASS
				Peak	2499.840	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2500.000	-40.78	≤-21.20	54.42	≤74	PASS
11G	Ant	Low	2412	AV	2310.000	-48.4	≤-41.20	46.80	≤54	PASS
				AV	2389.700	-47.43	≤-41.20	47.77	≤54	PASS
				AV	2390.000	-47.57	≤-41.20	47.63	≤54	PASS
				Peak	2310.000	-44.16	≤-21.20	51.04	≤74	PASS
				Peak	2379.040	-37.74	≤-21.20	57.46	≤74	PASS
				Peak	2390.000	-43.45	≤-21.20	51.75	≤74	PASS
		High	2462	AV	2483.500	-46.89	≤-41.20	48.31	≤54	PASS
				AV	2494.450	-46.81	≤-41.20	48.39	≤54	PASS
				AV	2500.000	-47.13	≤-41.20	48.07	≤54	PASS
				Peak	2483.500	-40.93	≤-21.20	54.27	≤74	PASS
				Peak	2495.660	-38.44	≤-21.20	56.76	≤74	PASS
				Peak	2500.000	-41.85	≤-21.20	53.35	≤74	PASS
11N20SI SO	Ant	Low	2412	AV	2310.000	-48.39	≤-41.20	46.81	≤54	PASS
				AV	2388.920	-47.4	≤-41.20	47.80	≤54	PASS
				AV	2390.000	-47.55	≤-41.20	47.65	≤54	PASS
				Peak	2310.000	-43.5	≤-21.20	51.70	≤74	PASS
				Peak	2355.510	-38.28	≤-21.20	56.92	≤74	PASS
				Peak	2390.000	-42.06	≤-21.20	53.14	≤74	PASS
		High	2462	AV	2483.500	-46.84	≤-41.20	48.36	≤54	PASS
				AV	2484.000	-46.75	≤-41.20	48.45	≤54	PASS
				AV	2500.000	-46.83	≤-41.20	48.37	≤54	PASS
				Peak	2483.500	-41.21	≤-21.20	53.99	≤74	PASS
				Peak	2496.430	-37.95	≤-21.20	57.25	≤74	PASS
				Peak	2500.000	-40.68	≤-21.20	54.52	≤74	PASS



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Scan code to check authenticity



Note:

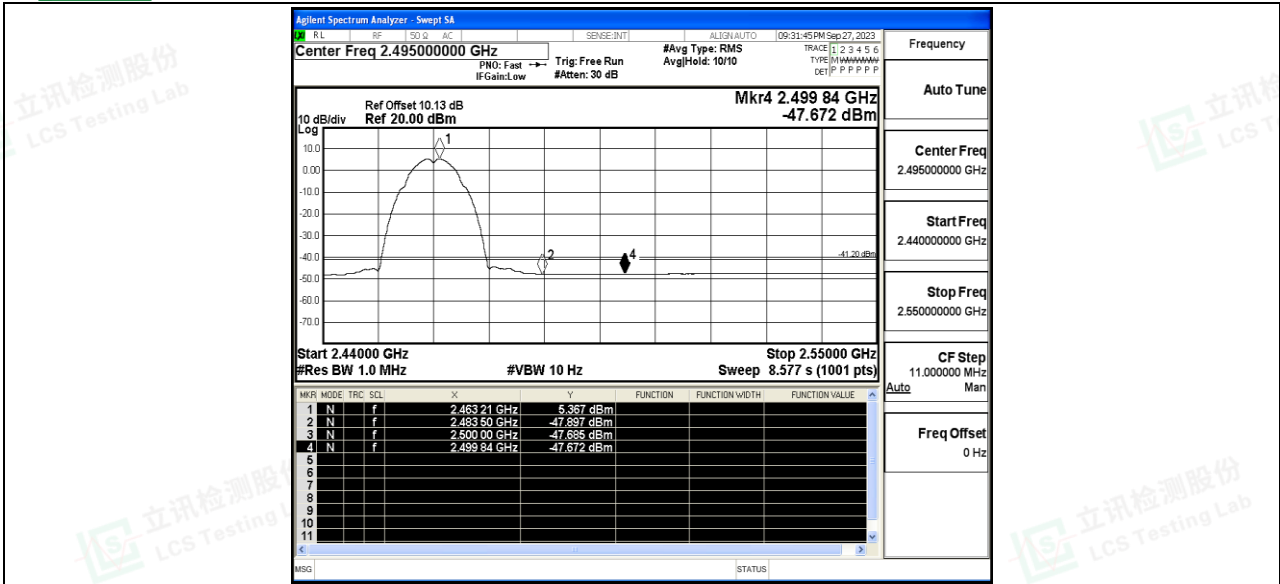
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



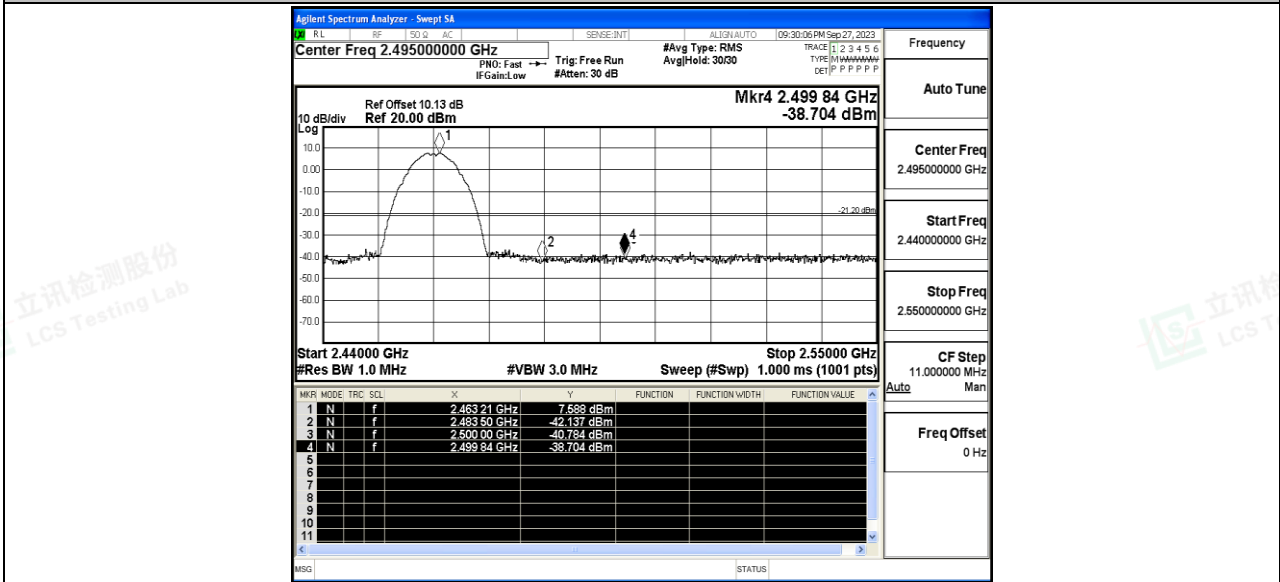


Test Graphs



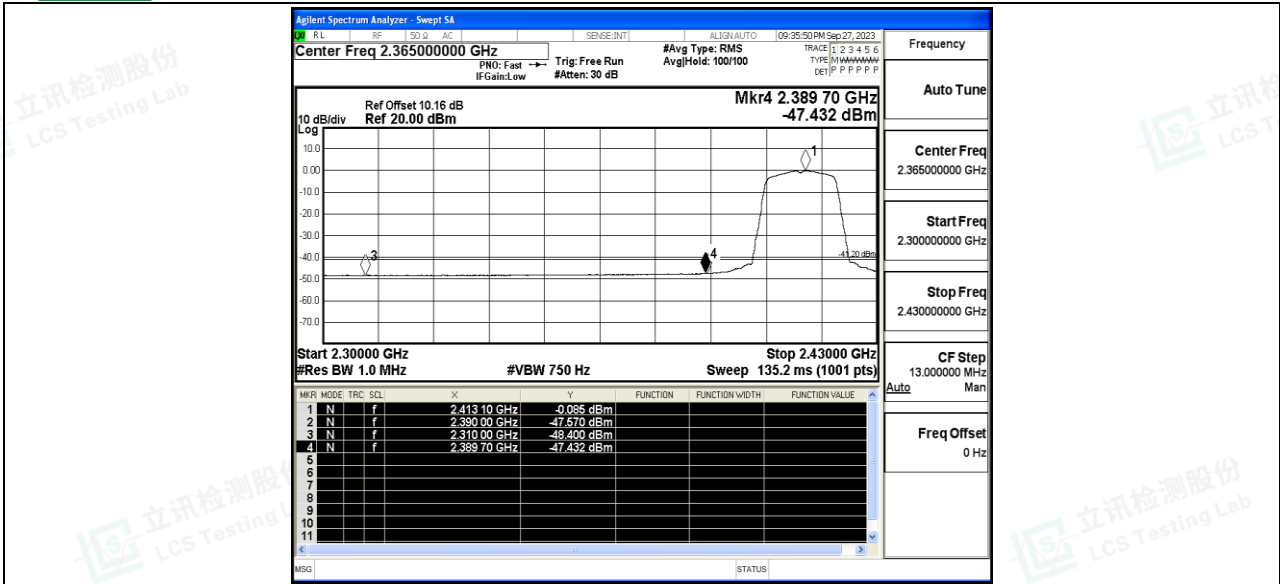


11B_Ant_High_2462_Peak

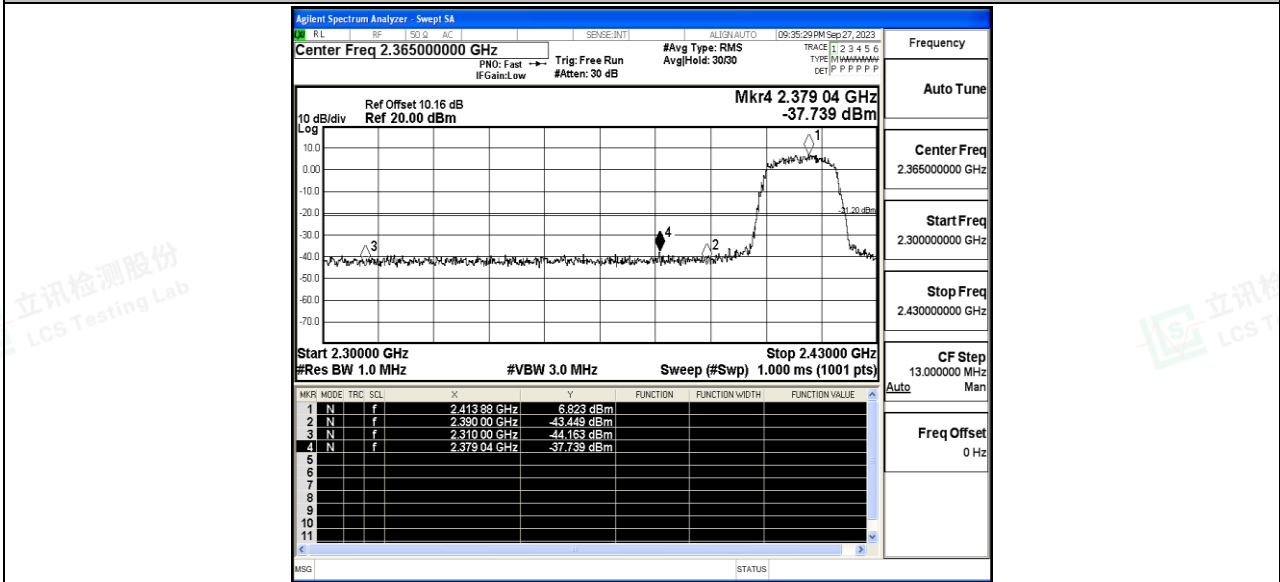


11G_Ant_Low_2412_AV



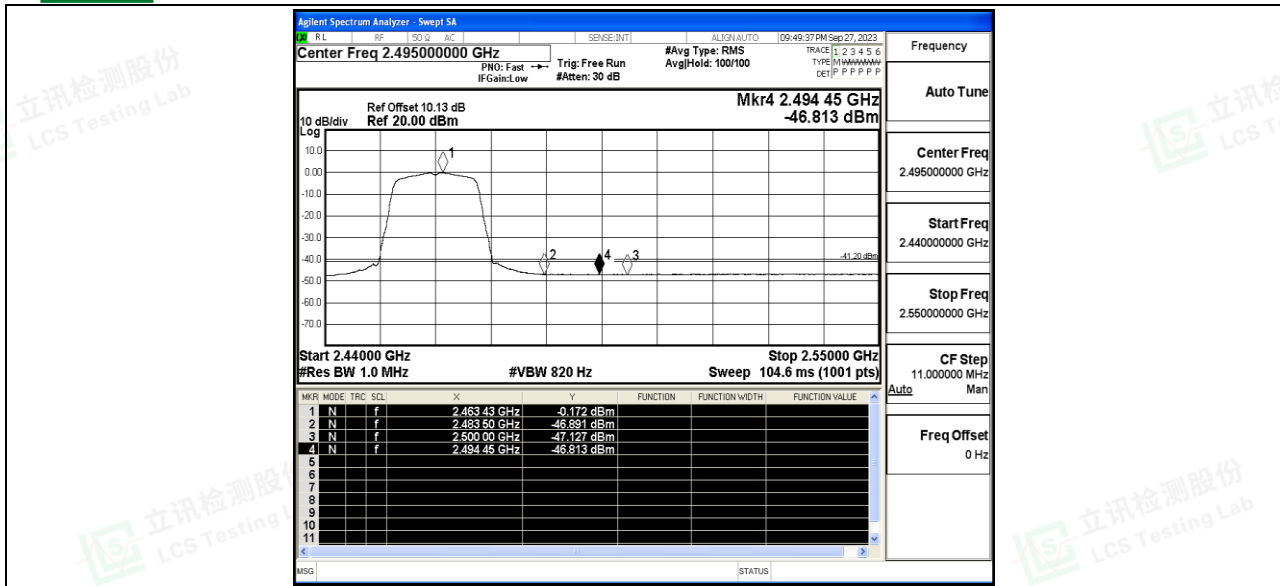


11G_Ant_Low_2412_Peak

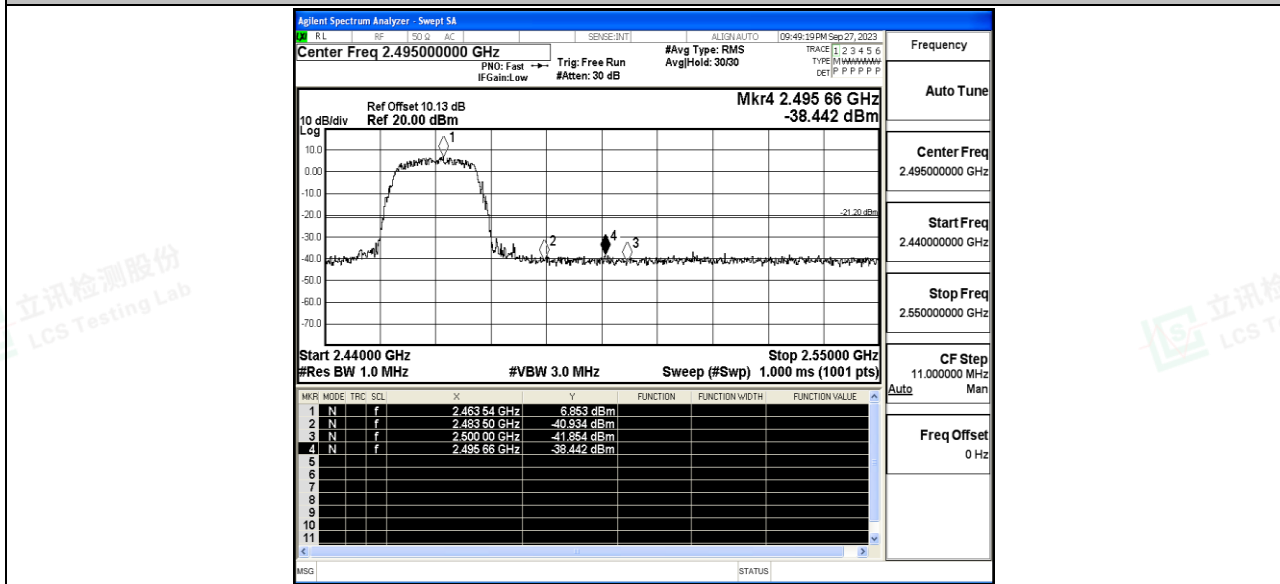


11G_Ant_High_2462_AV



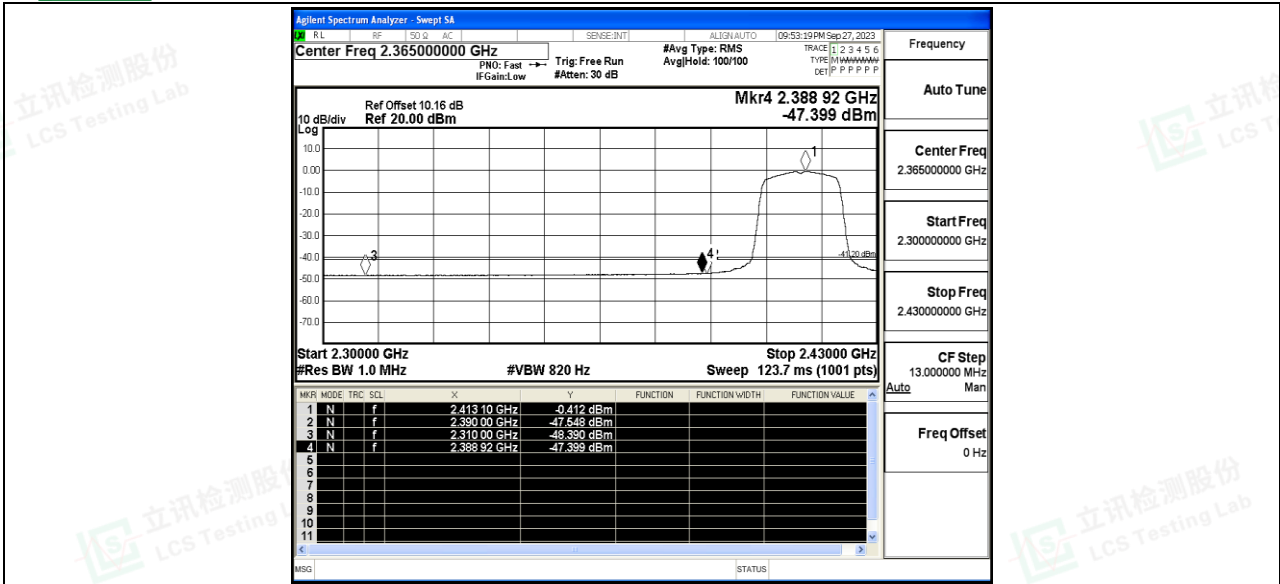


11G_Ant_High_2462_Peak

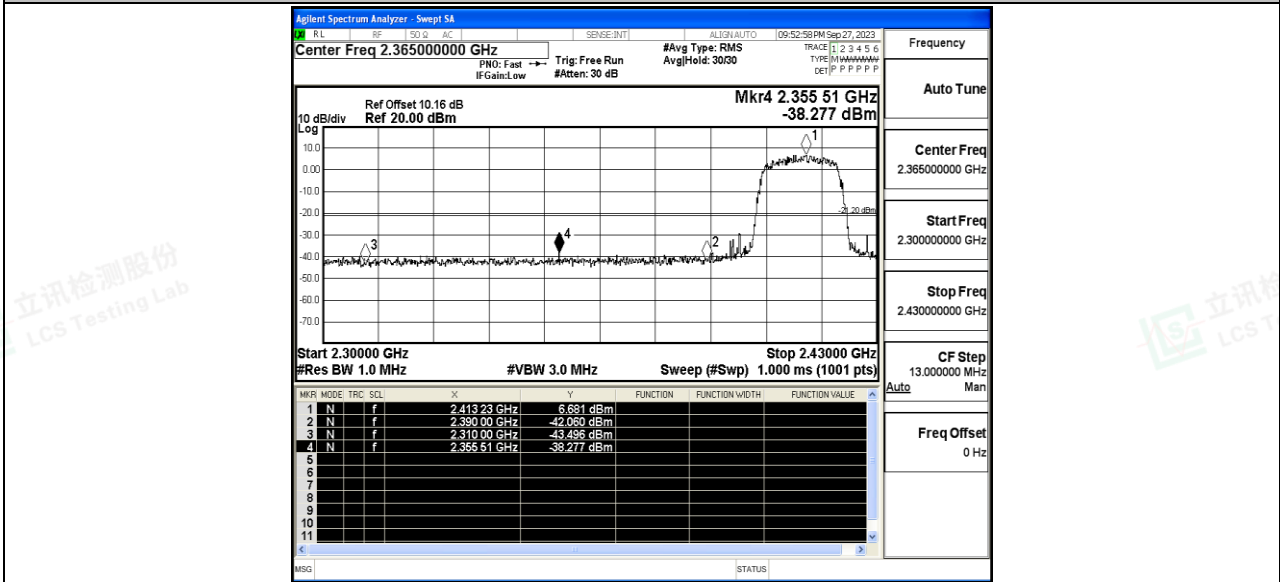


11N20SISO_Ant_Low_2412_AV



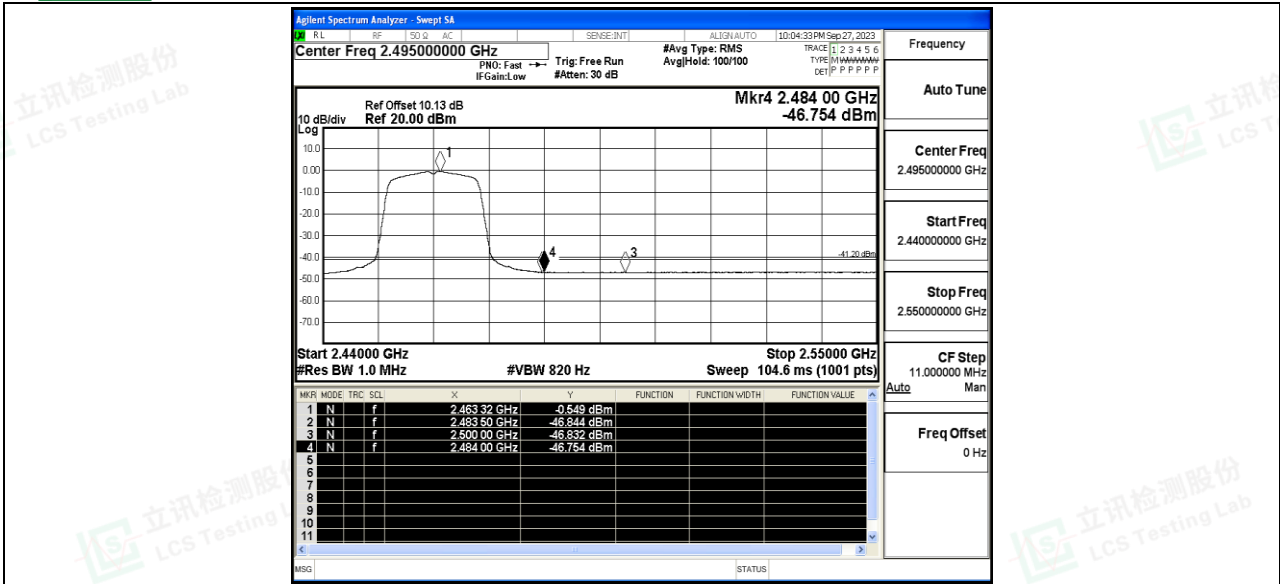


11N20SISO_Ant_Low_2412_Peak



11N20SISO_Ant_High_2462_AV





11N20SISO_Ant_High_2462_Peak

