



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: laptop

Test Model: FZTK142

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan





C.1 6dB Bandwidth

Test Result

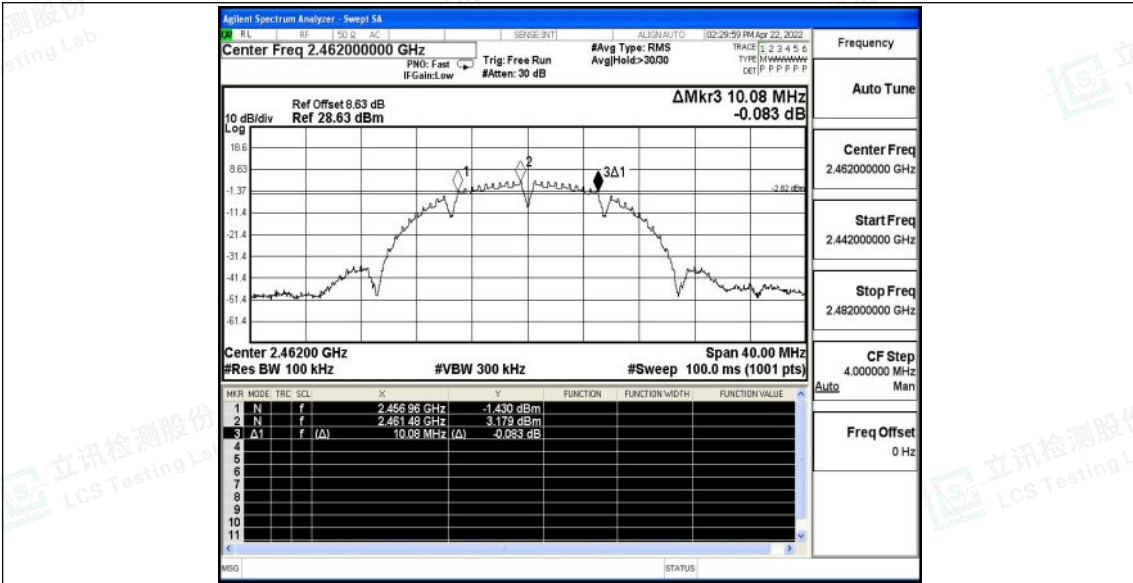
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.560	2403.720	2420.280	0.5	PASS
		2437	16.560	2428.720	2445.280	0.5	PASS
		2462	16.560	2453.720	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.760	2403.120	2420.880	0.5	PASS
		2437	17.760	2428.120	2445.880	0.5	PASS
		2462	17.760	2453.120	2470.880	0.5	PASS
11N40SISO	Ant1	2422	36.480	2403.760	2440.240	0.5	PASS
		2437	36.480	2418.760	2455.240	0.5	PASS
		2452	36.480	2433.760	2470.240	0.5	PASS



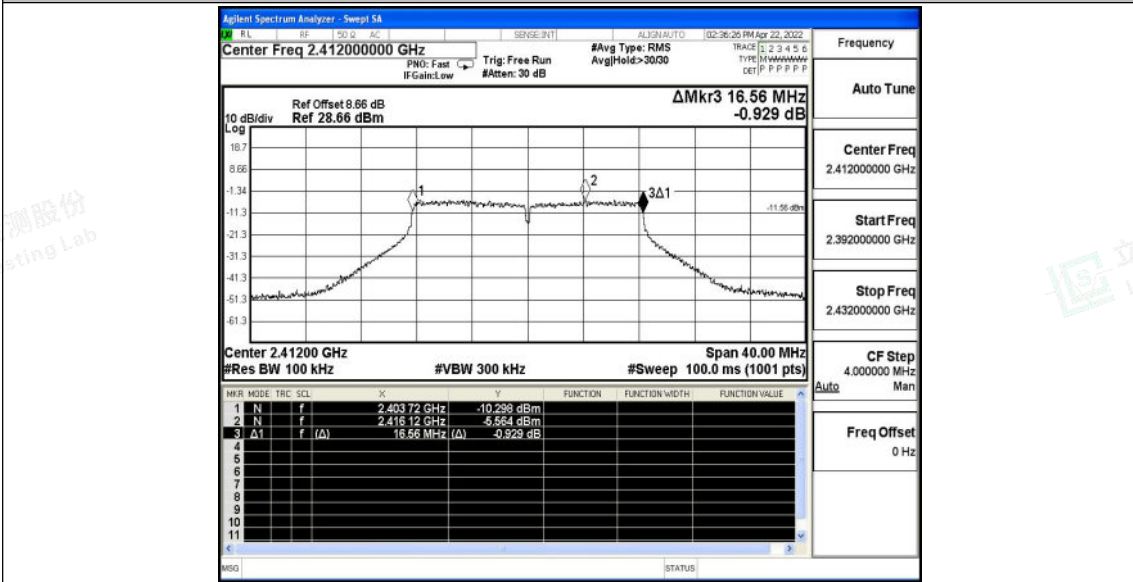


Test Graphs



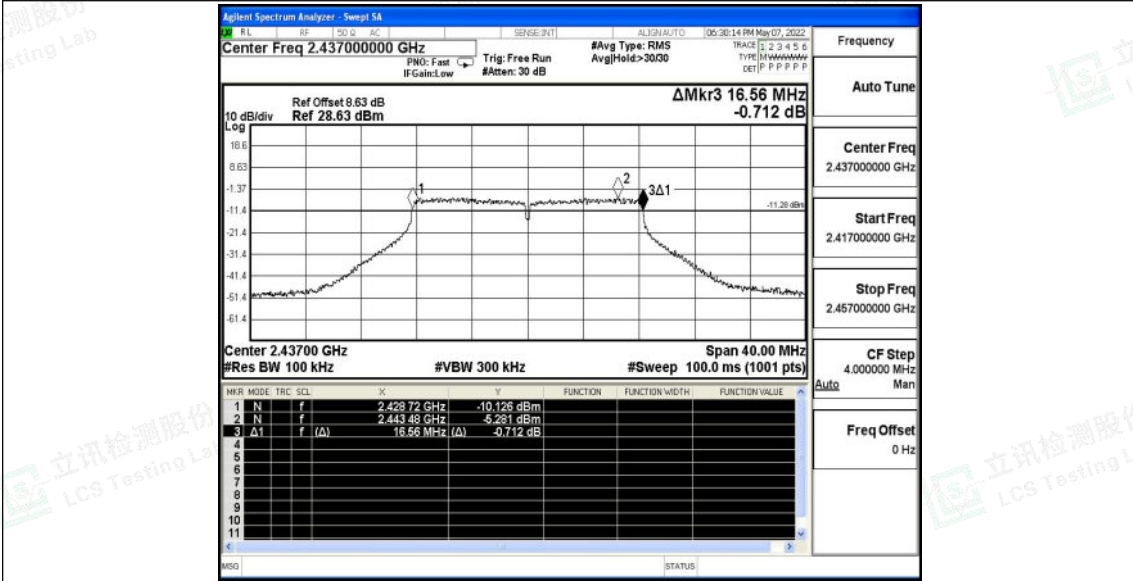


11G_Ant1_2412

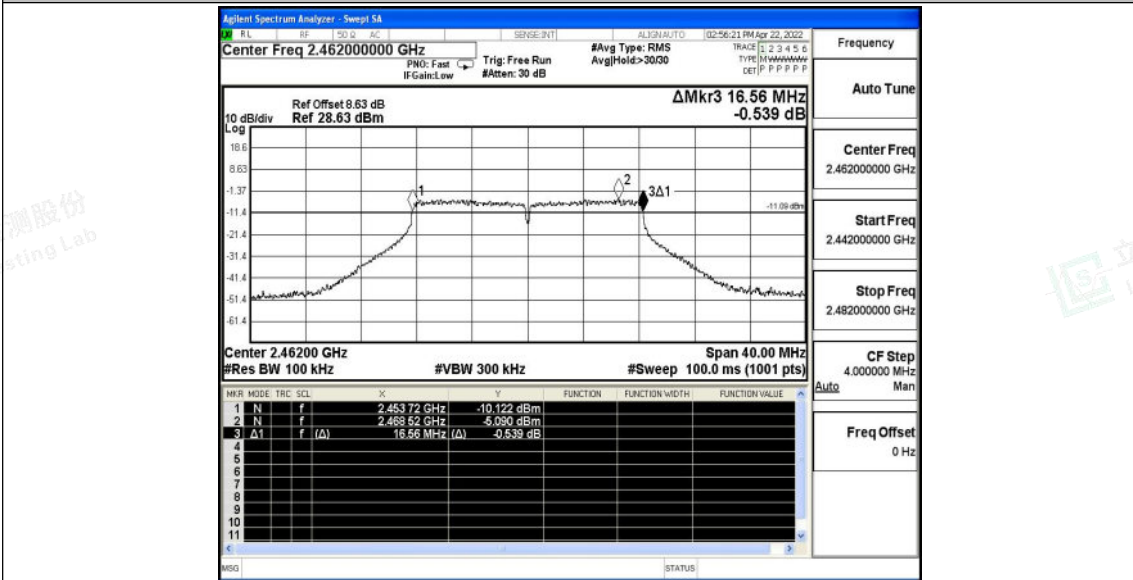


11G_Ant1_2437



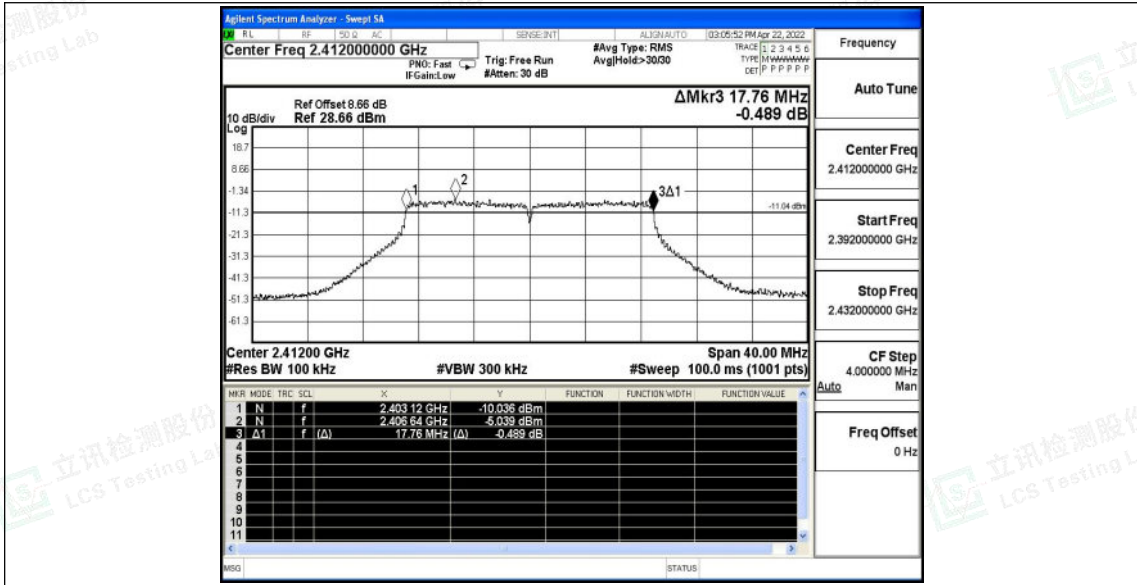


11G_Ant1_2462

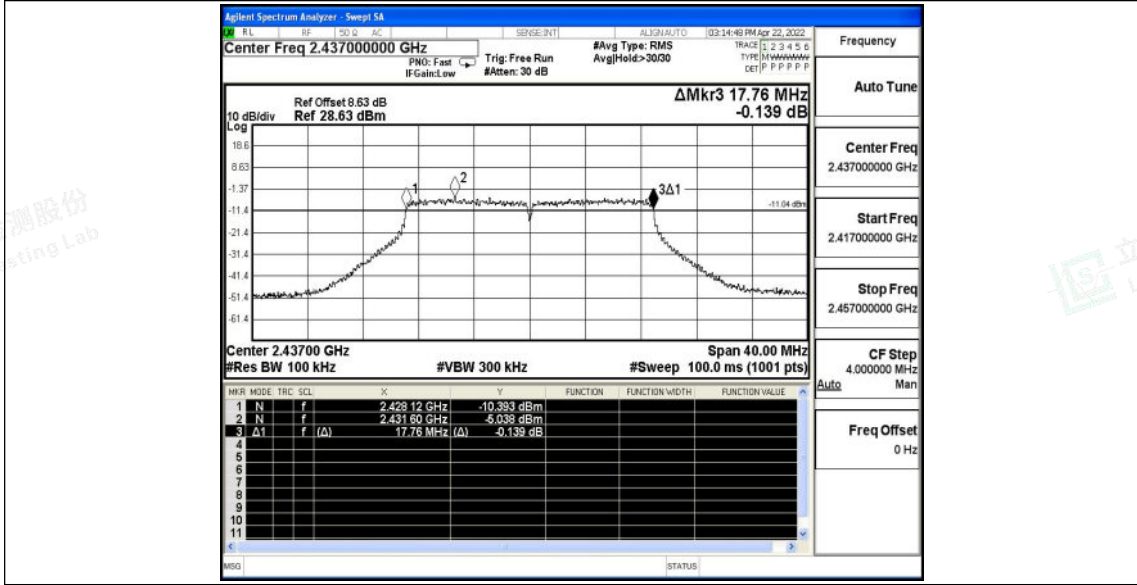


11N20SISO_Ant1_2412



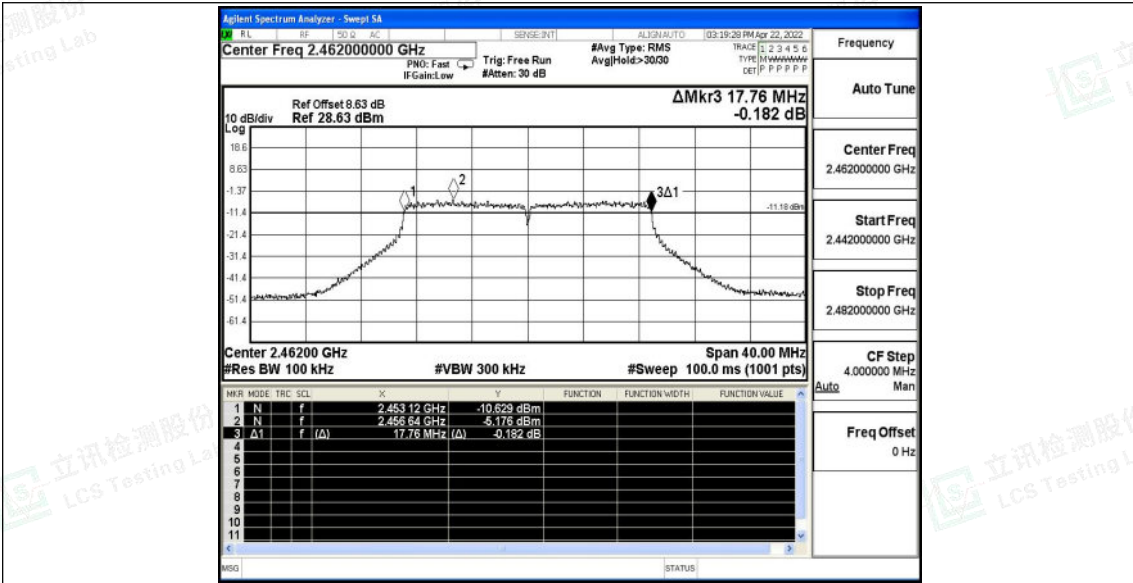


11N20SISO_Ant1_2437

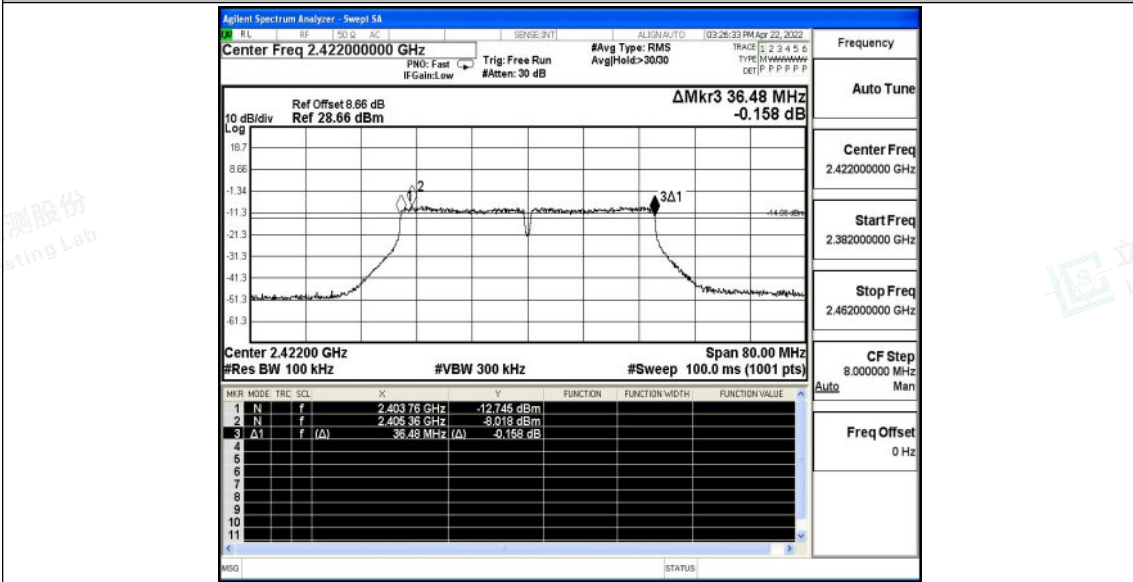


11N20SISO_Ant1_2462



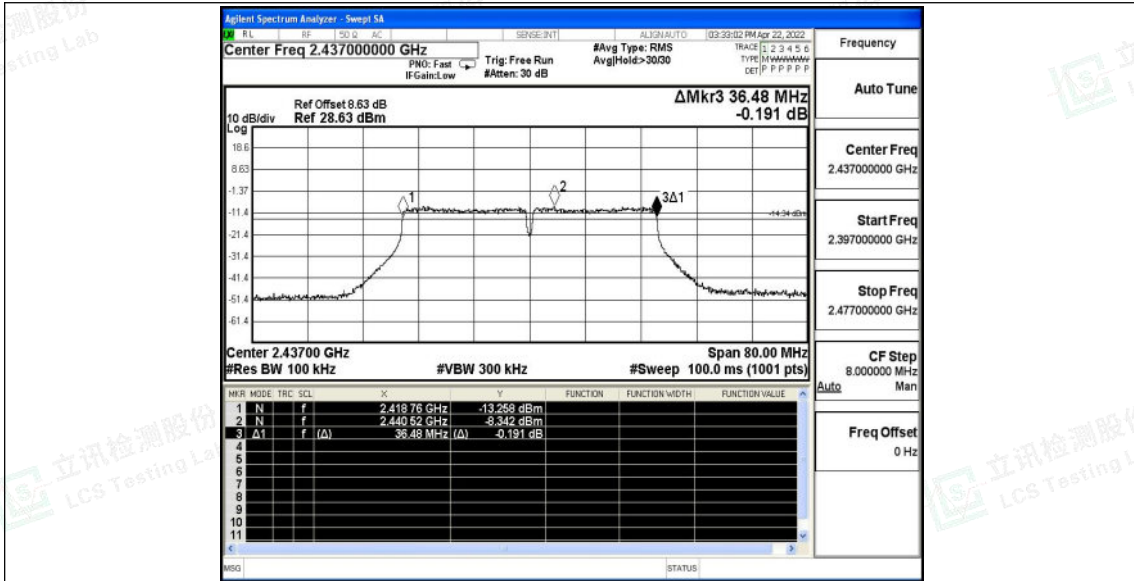


11N40SISO_Ant1_2422

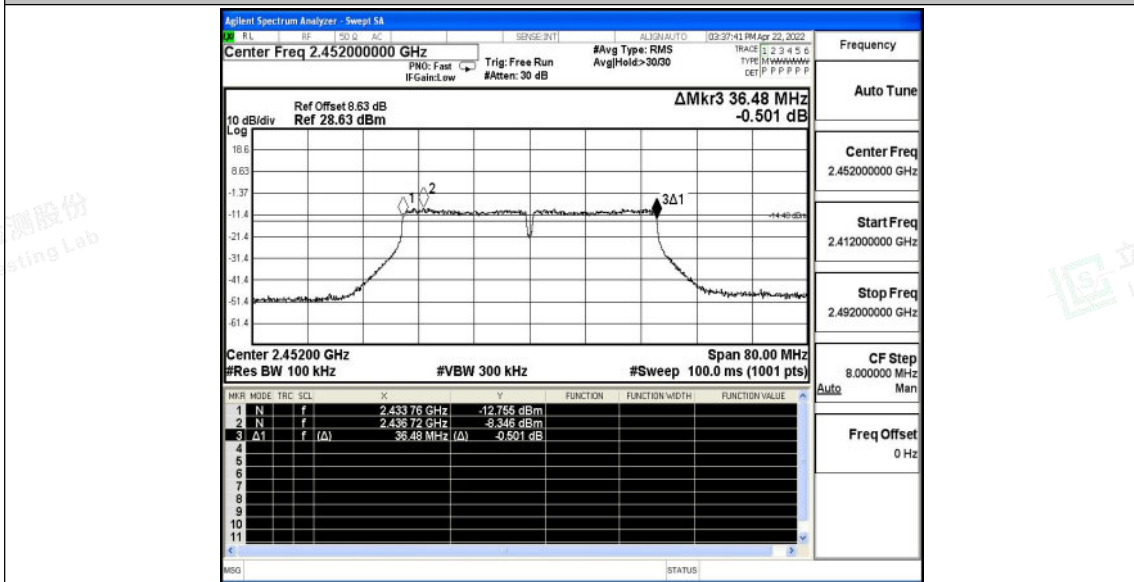


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.32	≤30.00	PASS
		2437	16.95	≤30.00	PASS
		2462	16.88	≤30.00	PASS
11G	Ant1	2412	16.47	≤30.00	PASS
		2437	16.35	≤30.00	PASS
		2462	16.82	≤30.00	PASS
11N20SISO	Ant1	2412	16.74	≤30.00	PASS
		2437	16.69	≤30.00	PASS
		2462	16.43	≤30.00	PASS
11N40SISO	Ant1	2422	16.88	≤30.00	PASS
		2437	16.83	≤30.00	PASS
		2452	16.85	≤30.00	PASS





C.3 Maximum power spectral density

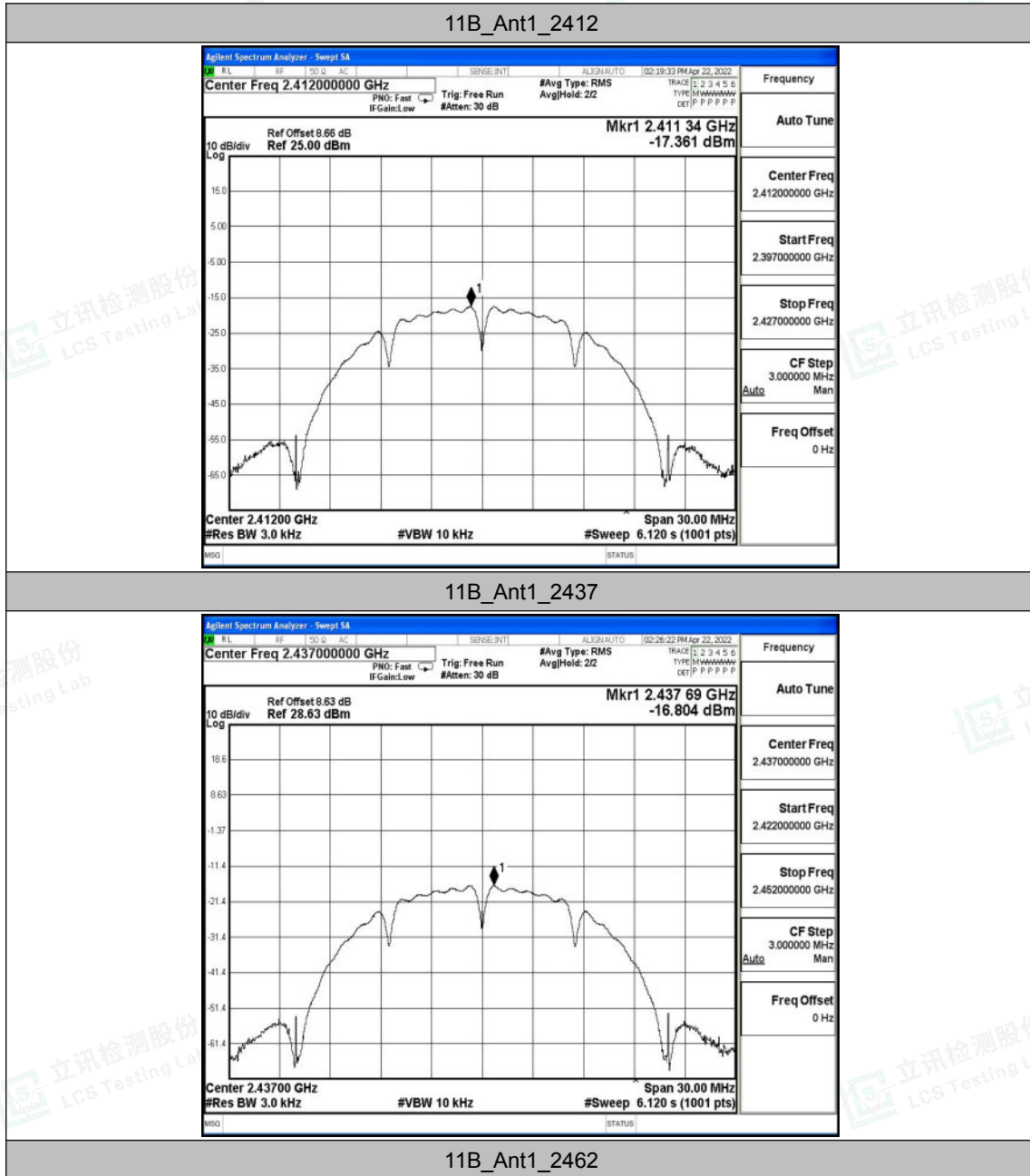
Test Result

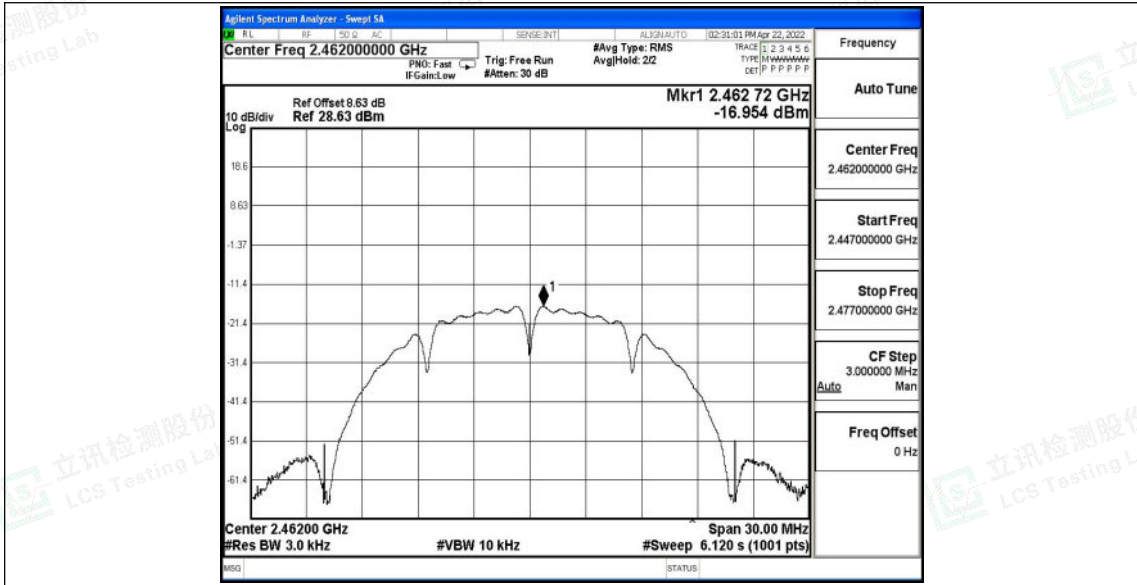
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.36	≤8.00	PASS
		2437	-16.8	≤8.00	PASS
		2462	-16.95	≤8.00	PASS
11G	Ant1	2412	-20.27	≤8.00	PASS
		2437	-19.75	≤8.00	PASS
		2462	-19.76	≤8.00	PASS
11N20SISO	Ant1	2412	-18.59	≤8.00	PASS
		2437	-19.13	≤8.00	PASS
		2462	-19.58	≤8.00	PASS
11N40SISO	Ant1	2422	-21.07	≤8.00	PASS
		2437	-20.76	≤8.00	PASS
		2452	-21.83	≤8.00	PASS



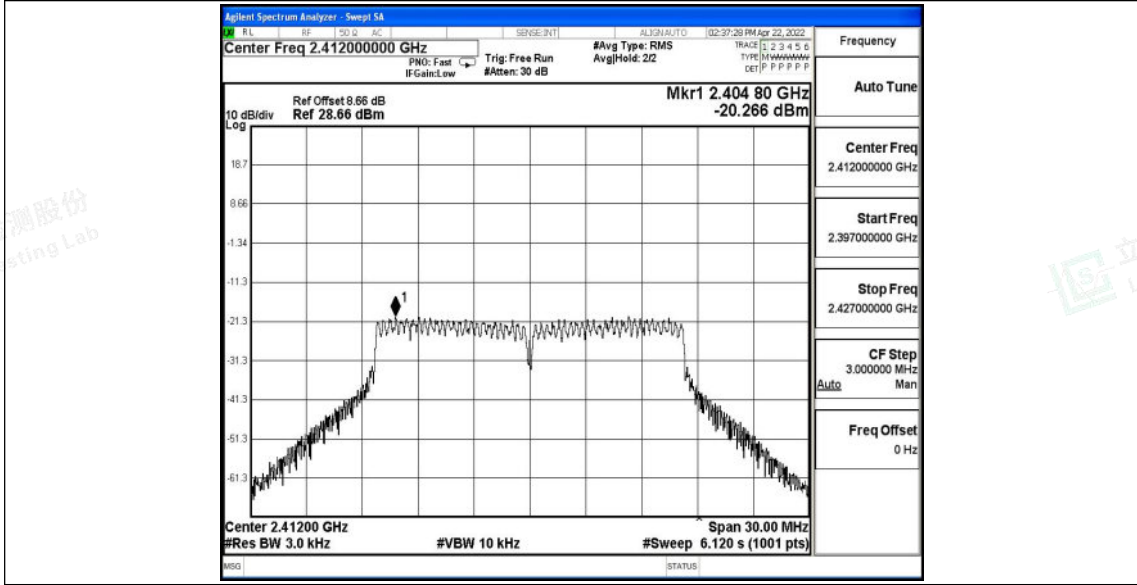


Test Graphs



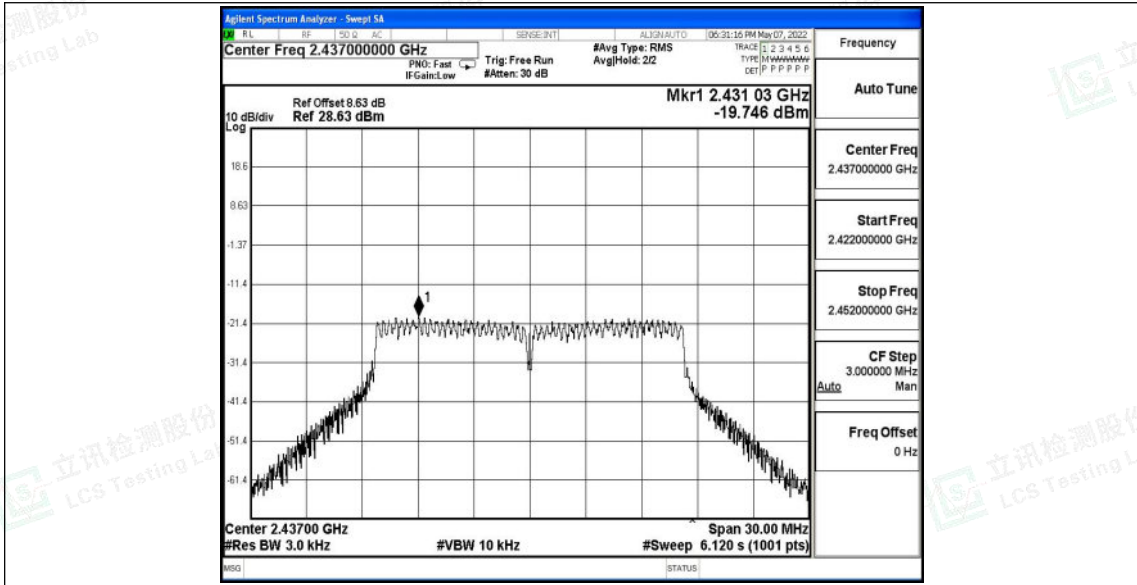


11G_Ant1_2412

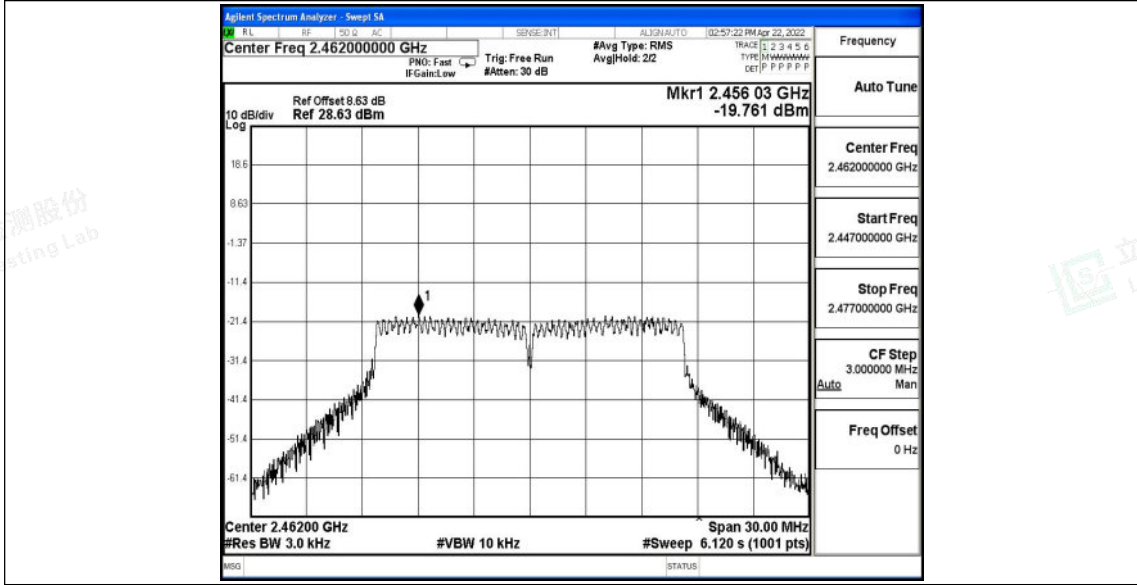


11G_Ant1_2437



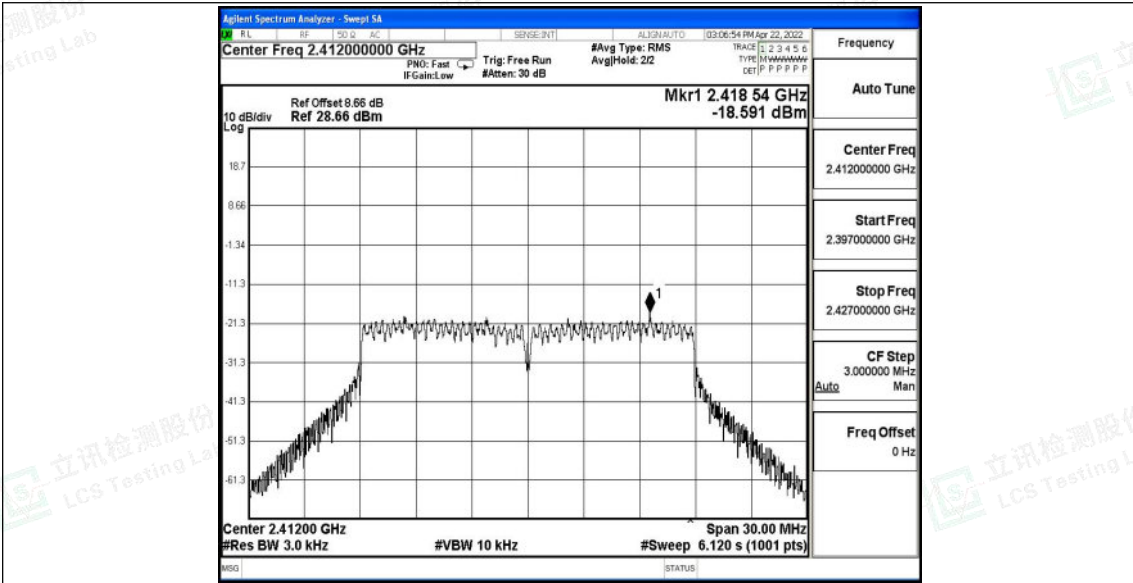


11G_Ant1_2462

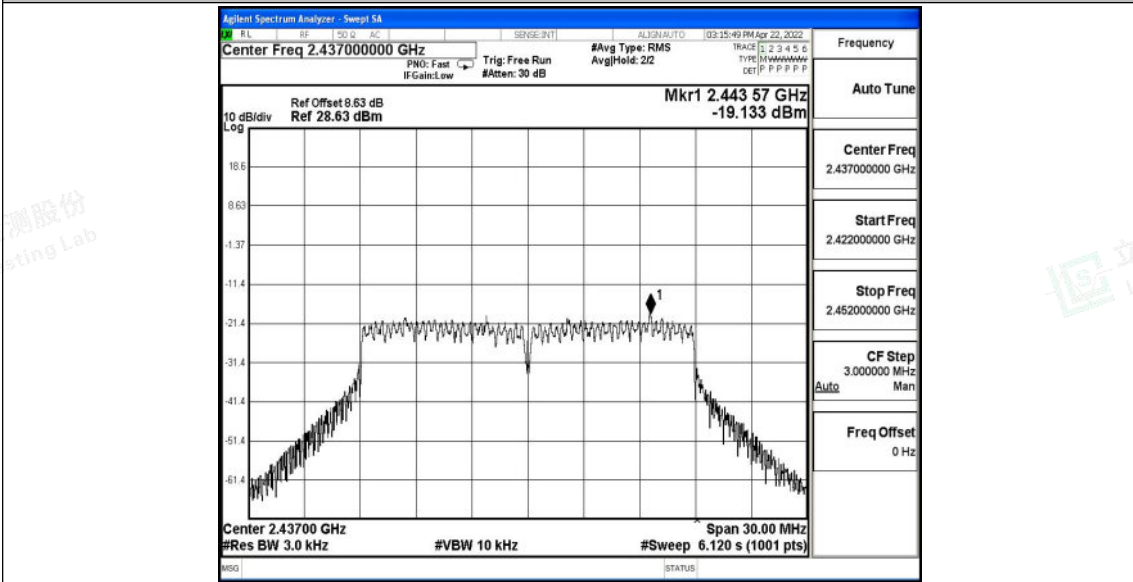


11N20SISO_Ant1_2412



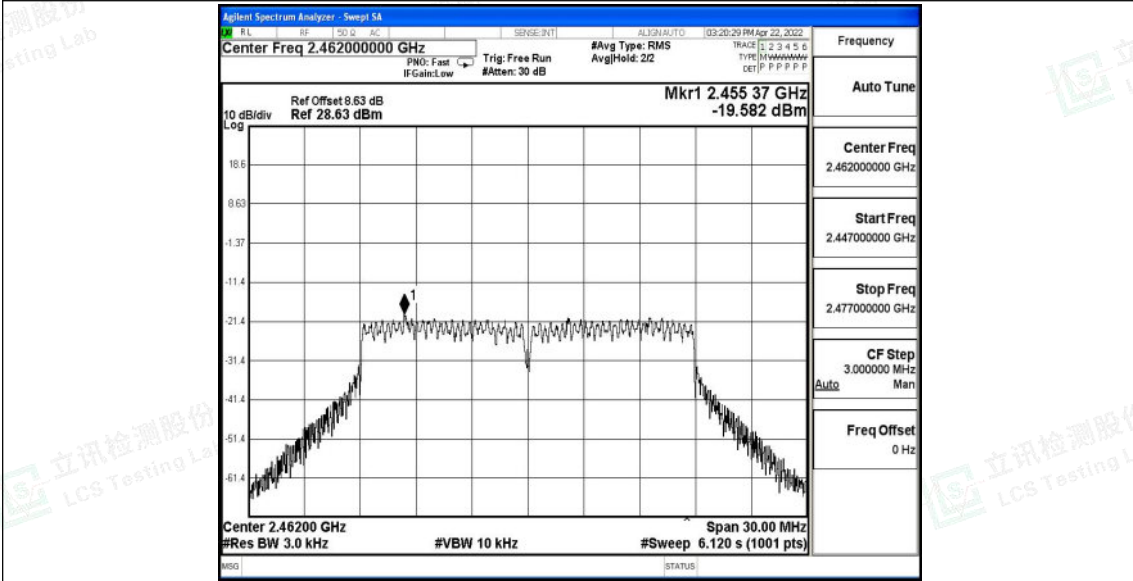


11N20SISO_Ant1_2437

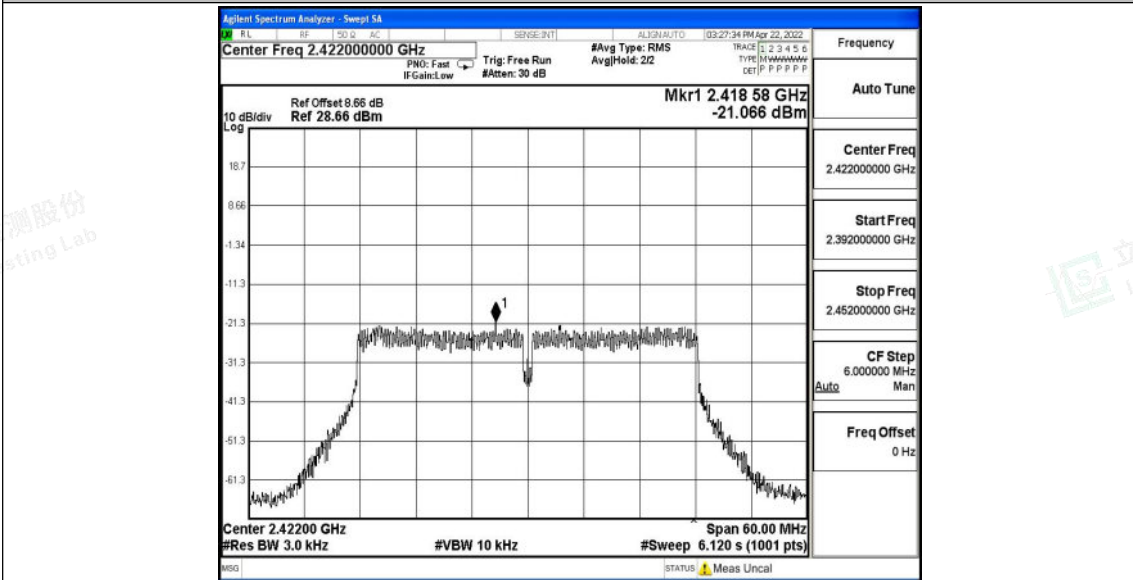


11N20SISO_Ant1_2462



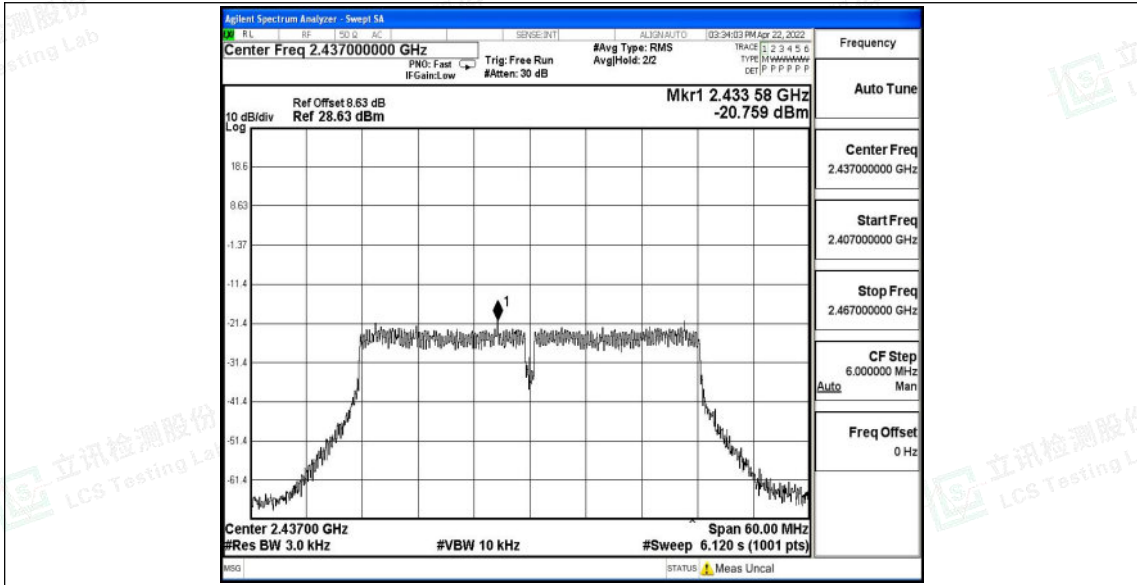


11N40SISO_Ant1_2422

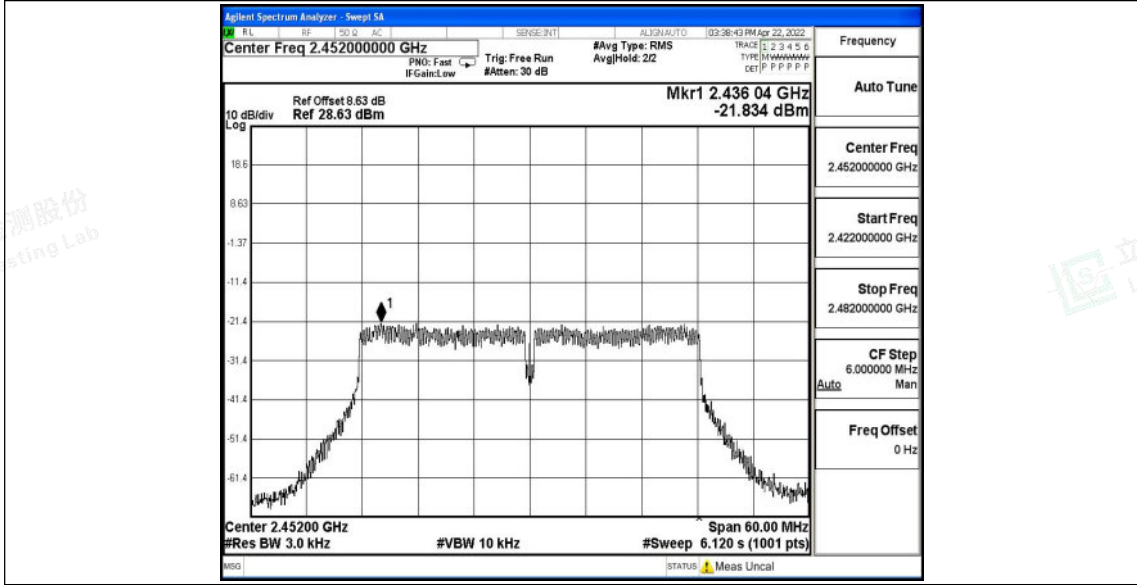


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





C.4 Band edge measurements

Test Result

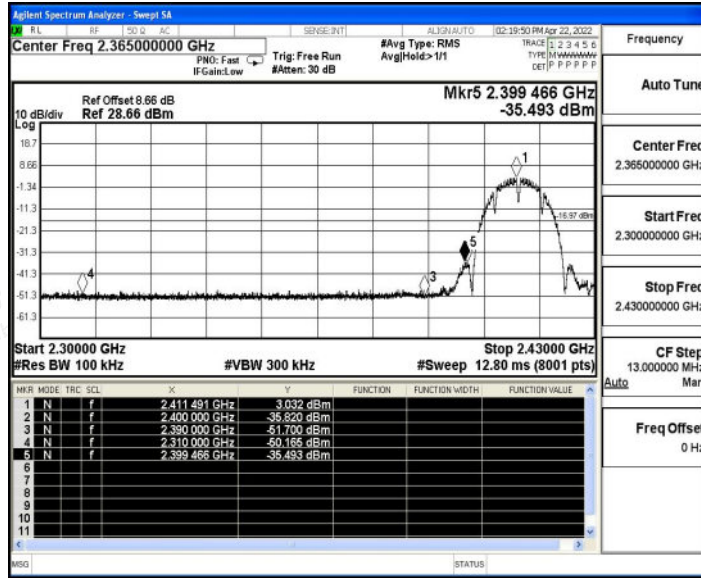
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.03	-35.49	≤-16.97	PASS
		High	2462	3.45	-46.41	≤-16.55	PASS
11G	Ant1	Low	2412	-5.38	-36.41	≤-25.38	PASS
		High	2462	-4.81	-47.61	≤-24.81	PASS
11N20SISO	Ant1	Low	2412	-4.86	-34.87	≤-24.86	PASS
		High	2462	-5.17	-47.7	≤-25.17	PASS
11N40SISO	Ant1	Low	2422	-7.90	-36.88	≤-27.9	PASS
		High	2452	-8.50	-46.06	≤-28.5	PASS



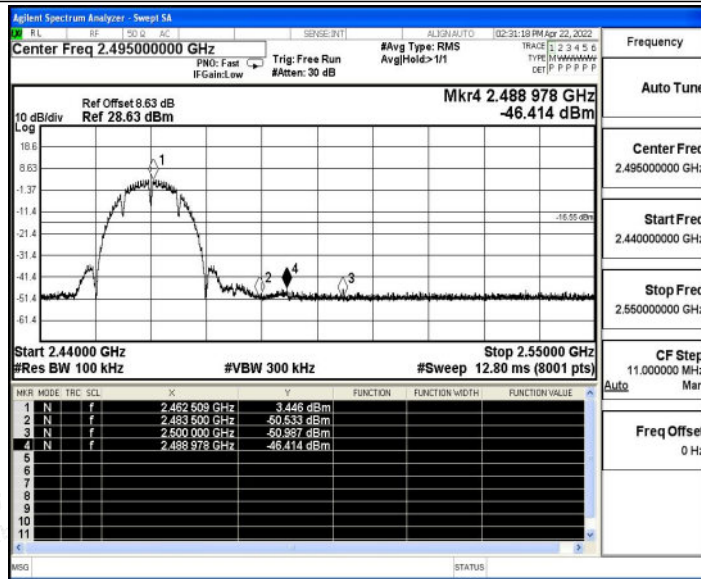


Test Graphs

11B_Ant1_Low_2412

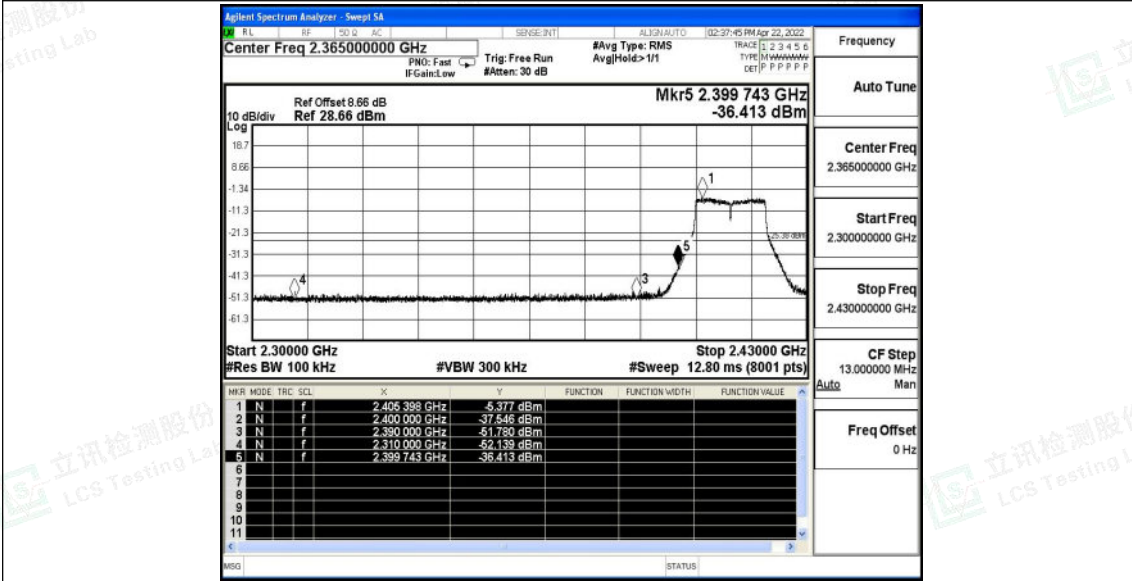


11B_Ant1_High_2462

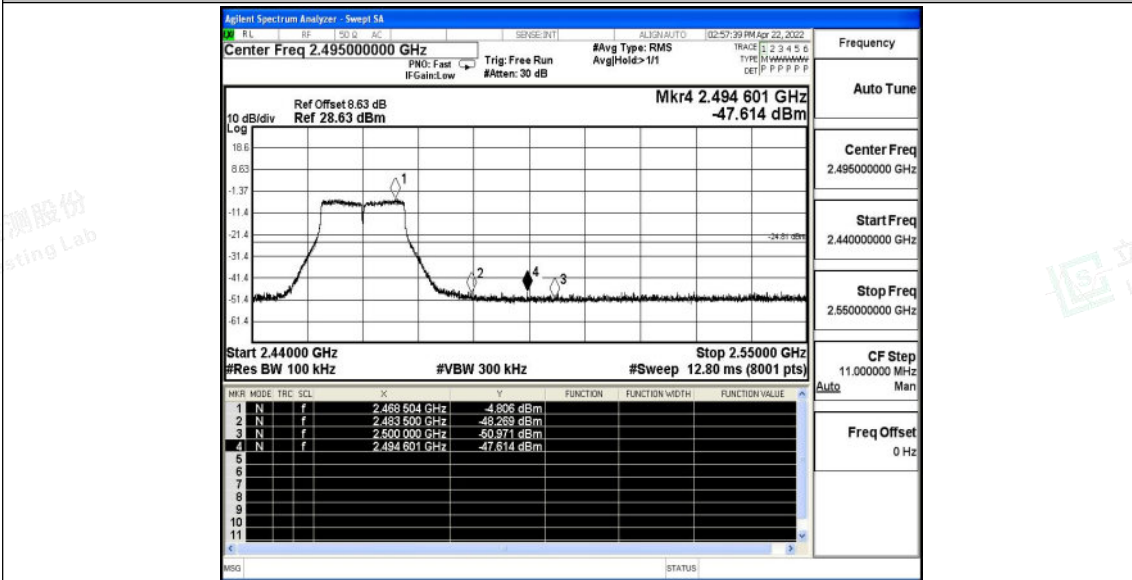


11G_Ant1_Low_2412



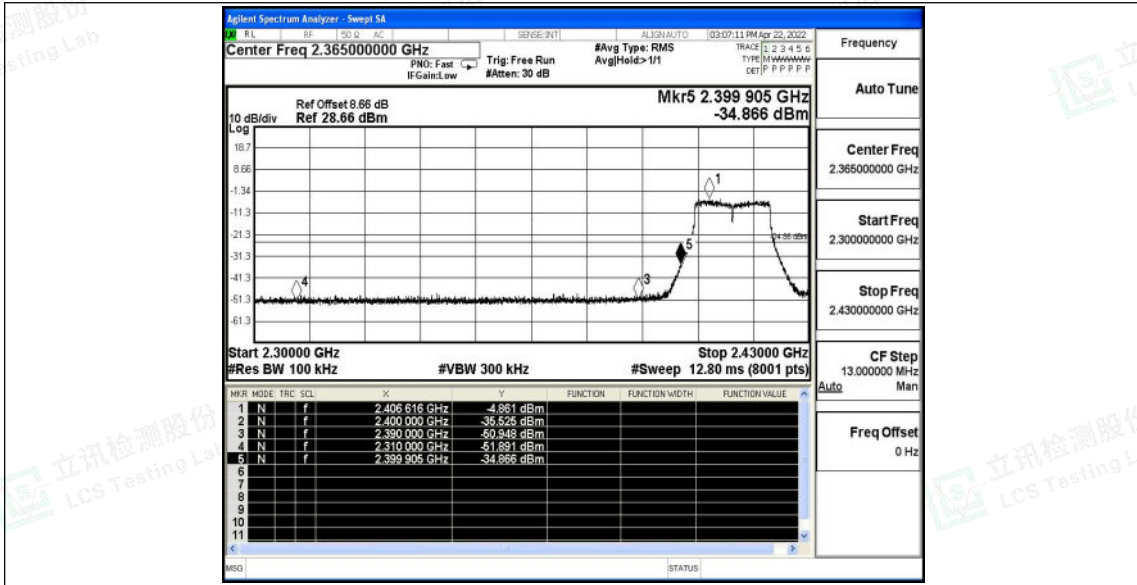


11G_Ant1_High_2462

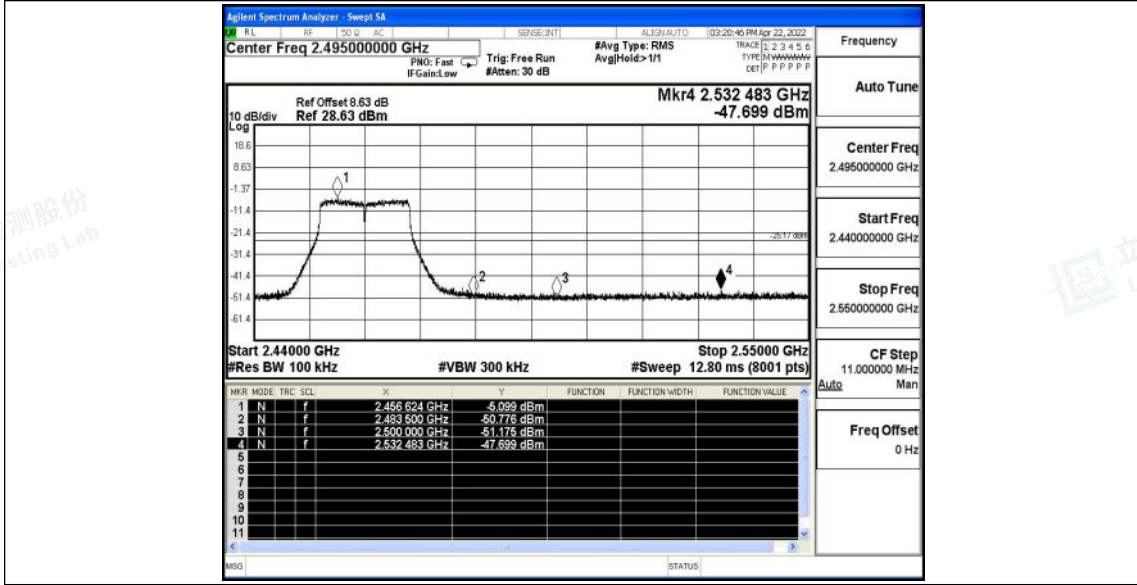


11N20SISO_Ant1_Low_2412



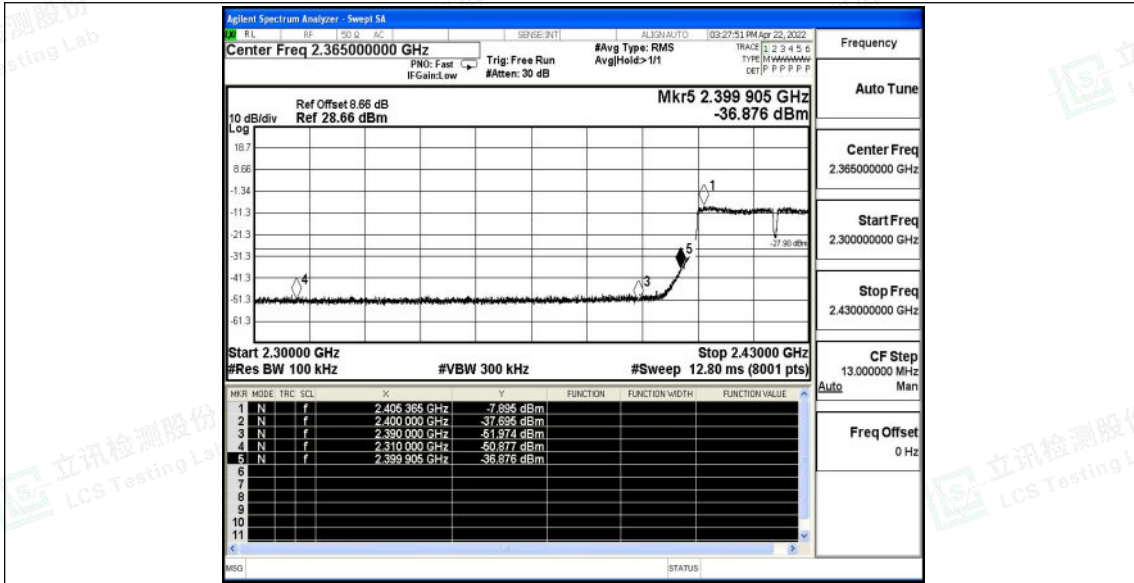


11N20SISO_Ant1_High_2462

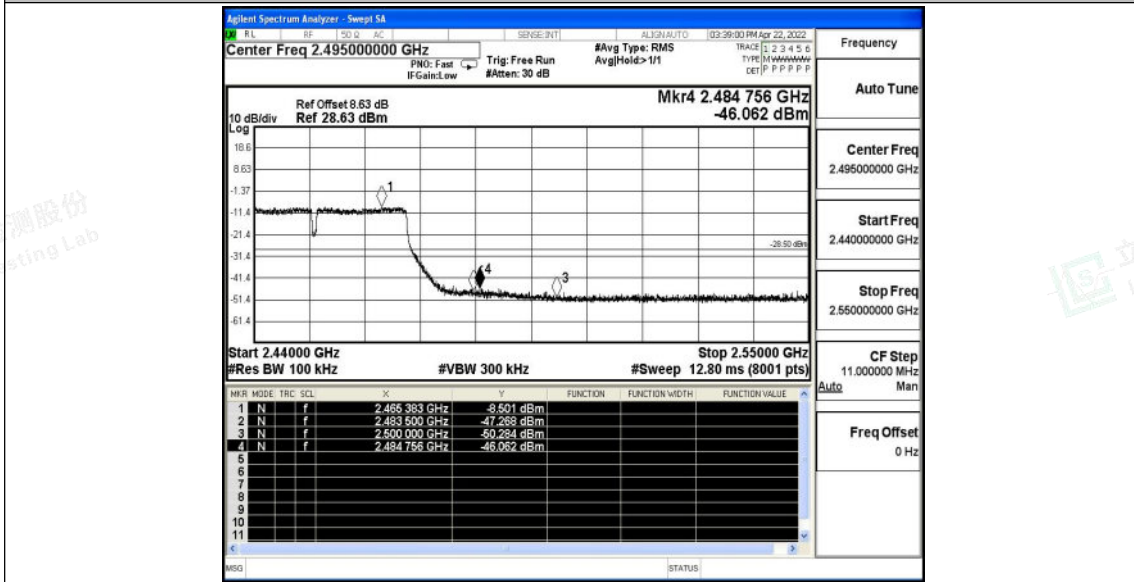


11N40SISO_Ant1_Low_2422





11N40SISO_Ant1_High_2452





C.5 Conducted Spurious Emission

Test Result

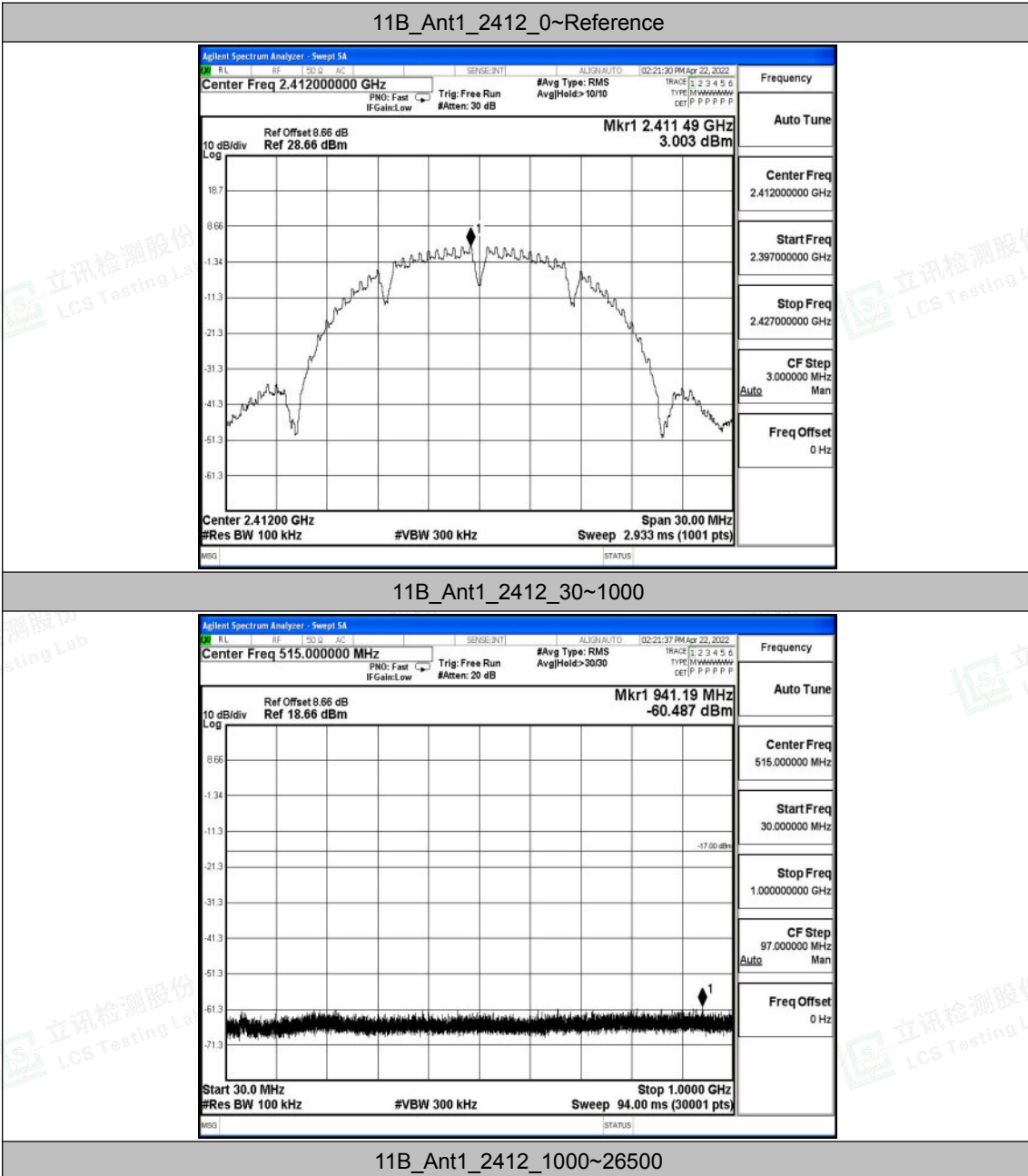
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.00	3.00	---	PASS
			30~1000	3.00	-60.49	≤-17	PASS
			1000~26500	3.00	-45.66	≤-17	PASS
		2437	Reference	3.69	3.69	---	PASS
			30~1000	3.69	-60.63	≤-16.31	PASS
			1000~26500	3.69	-46.34	≤-16.31	PASS
		2462	Reference	3.56	3.56	---	PASS
			30~1000	3.56	-60.05	≤-16.44	PASS
			1000~26500	3.56	-46.04	≤-16.44	PASS
11G	Ant1	2412	Reference	-5.40	-5.40	---	PASS
			30~1000	-5.40	-60.39	≤-25.4	PASS
			1000~26500	-5.40	-46.5	≤-25.4	PASS
		2437	Reference	-4.88	-4.88	---	PASS
			30~1000	-4.88	-59.57	≤-24.88	PASS
			1000~26500	-4.88	-46.3	≤-24.88	PASS
		2462	Reference	-4.81	-4.81	---	PASS
			30~1000	-4.81	-60.41	≤-24.81	PASS
			1000~26500	-4.81	-46.61	≤-24.81	PASS
11N20SISO	Ant1	2412	Reference	-5.22	-5.22	---	PASS
			30~1000	-5.22	-60.97	≤-25.22	PASS
			1000~26500	-5.22	-46.37	≤-25.22	PASS
		2437	Reference	-4.96	-4.96	---	PASS
			30~1000	-4.96	-61	≤-24.96	PASS
			1000~26500	-4.96	-46.2	≤-24.96	PASS
		2462	Reference	-5.16	-5.16	---	PASS
			30~1000	-5.16	-61.25	≤-25.16	PASS
			1000~26500	-5.16	-45.84	≤-25.16	PASS
11N40SISO	Ant1	2422	Reference	-7.63	-7.63	---	PASS
			30~1000	-7.63	-59.62	≤-27.63	PASS
			1000~26500	-7.63	-45.61	≤-27.63	PASS
		2437	Reference	-8.30	-8.30	---	PASS
			30~1000	-8.30	-59.96	≤-28.3	PASS
			1000~26500	-8.30	-46.49	≤-28.3	PASS
		2452	Reference	-7.88	-7.88	---	PASS
			30~1000	-7.88	-60.93	≤-27.88	PASS

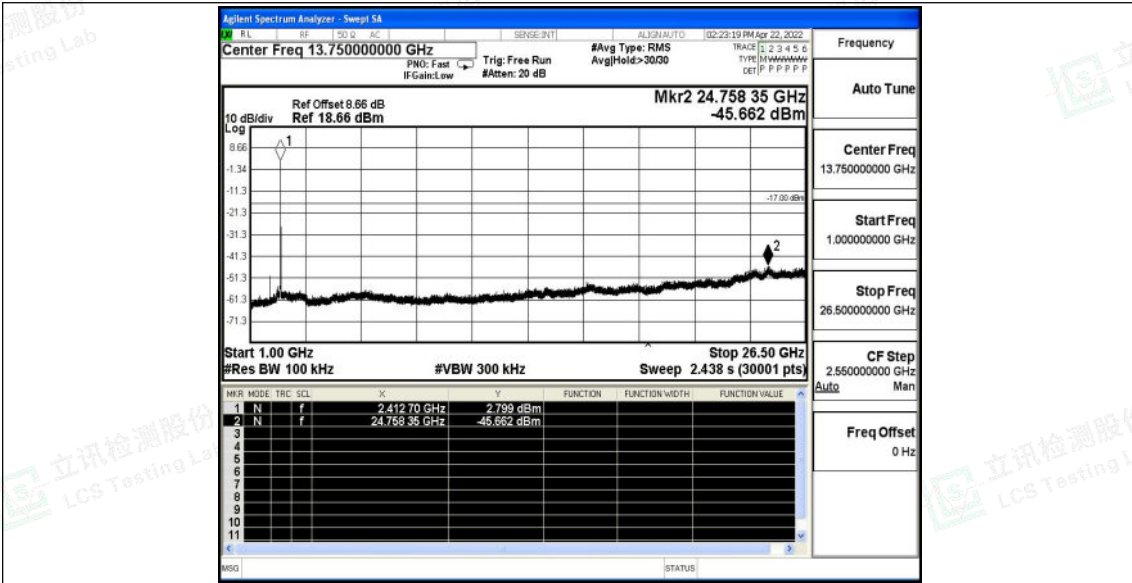




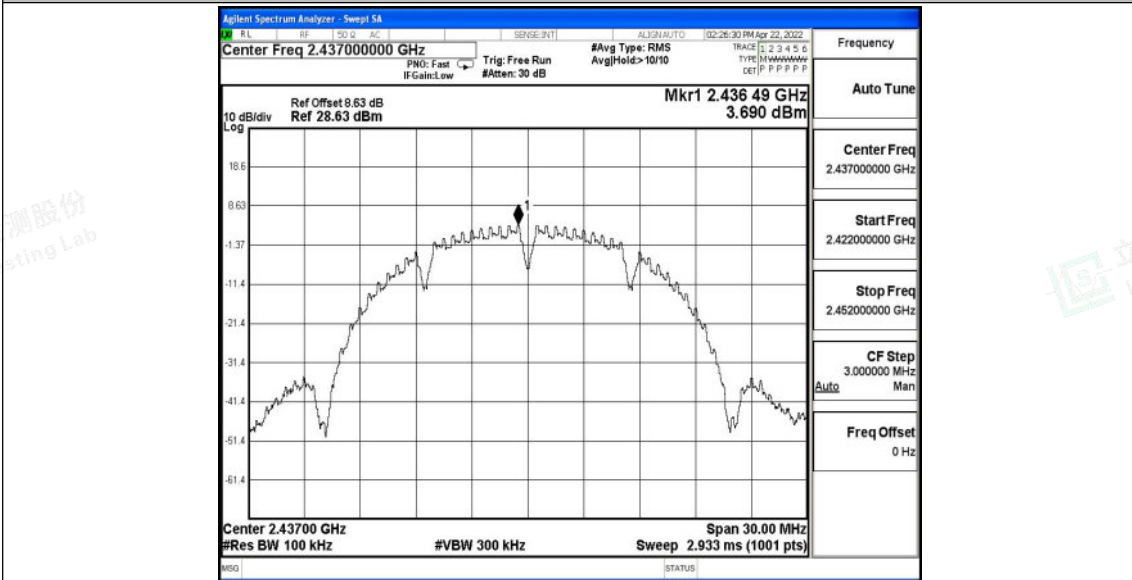
		1000~26500	-7.88	-46.25	≤-27.88	PASS
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Test Graphs



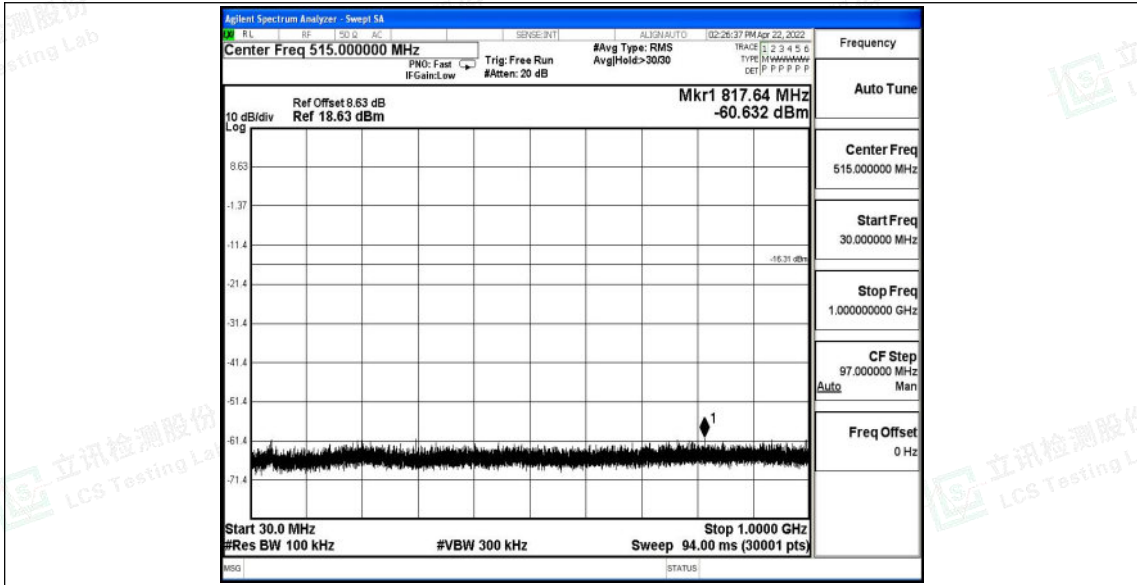


11B_Ant1_2437_0~Reference

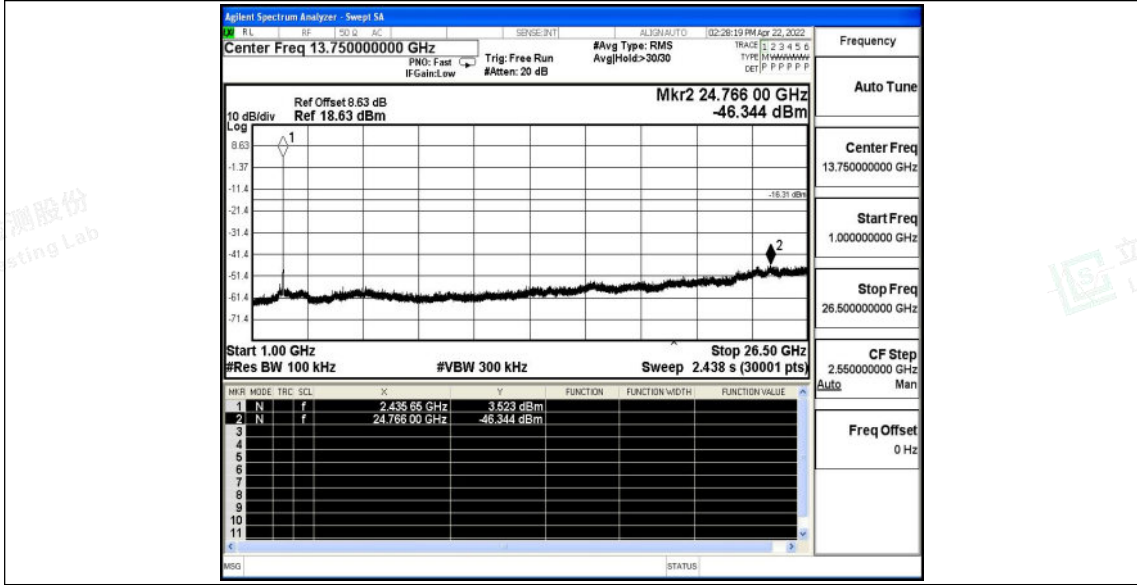


11B_Ant1_2437_30~1000



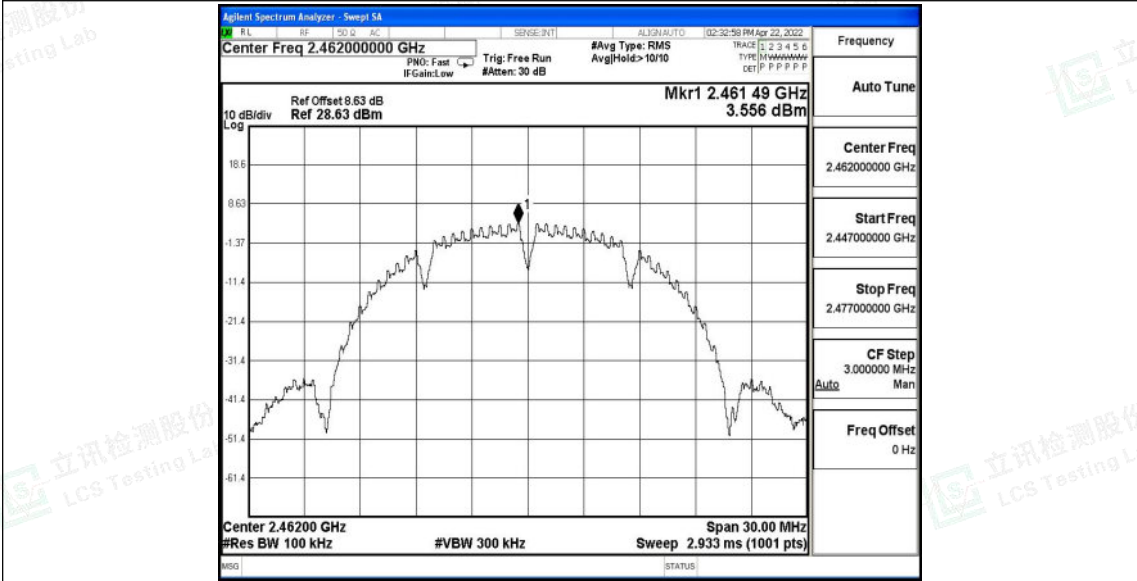


11B_Ant1_2437_1000~26500

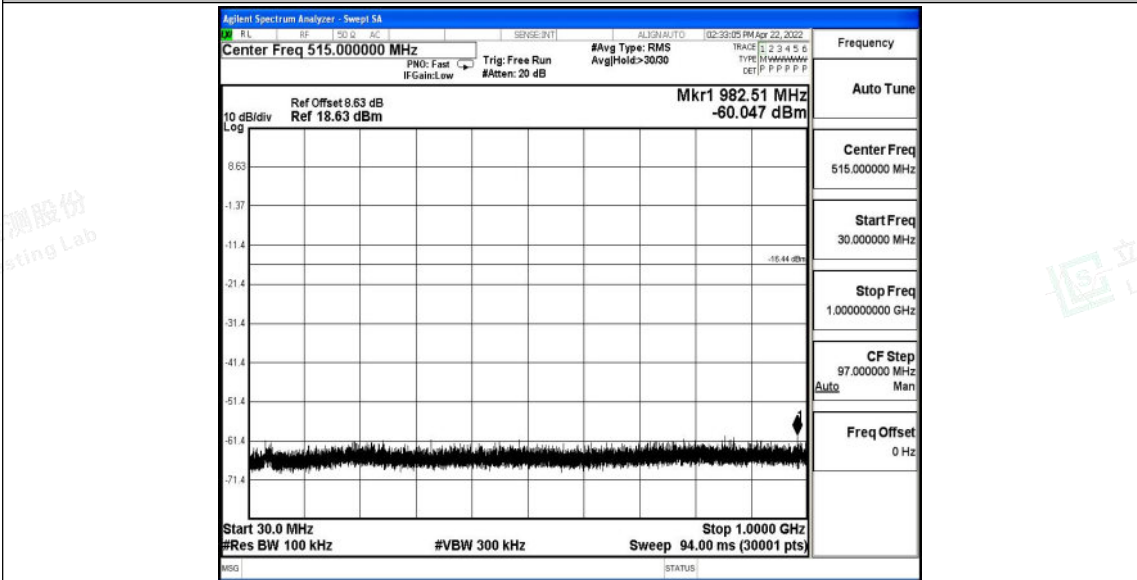


11B_Ant1_2462_0~Reference



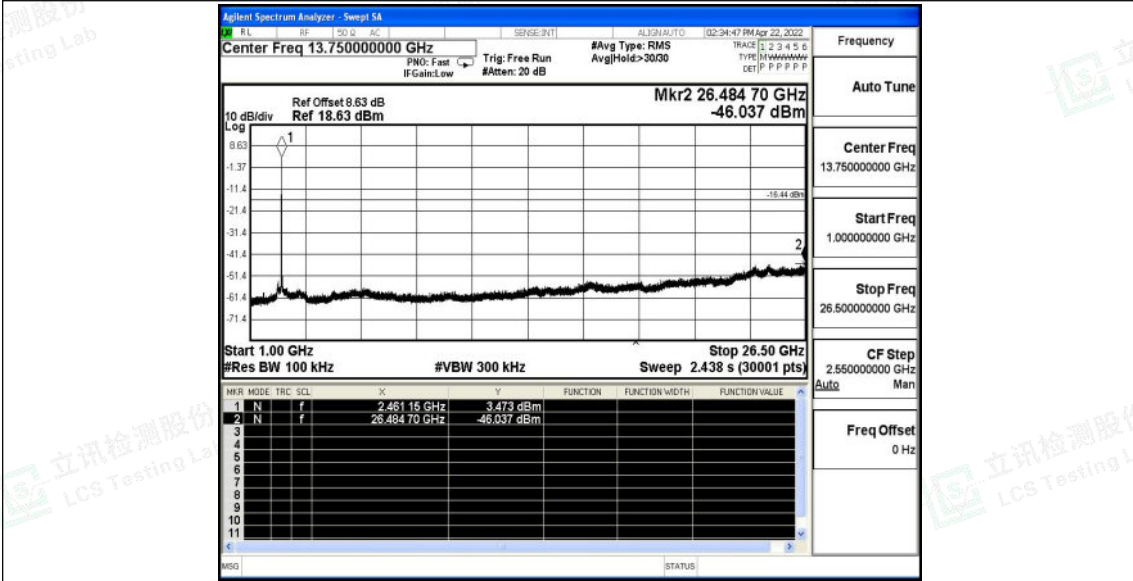


11B_Ant1_2462_30~1000

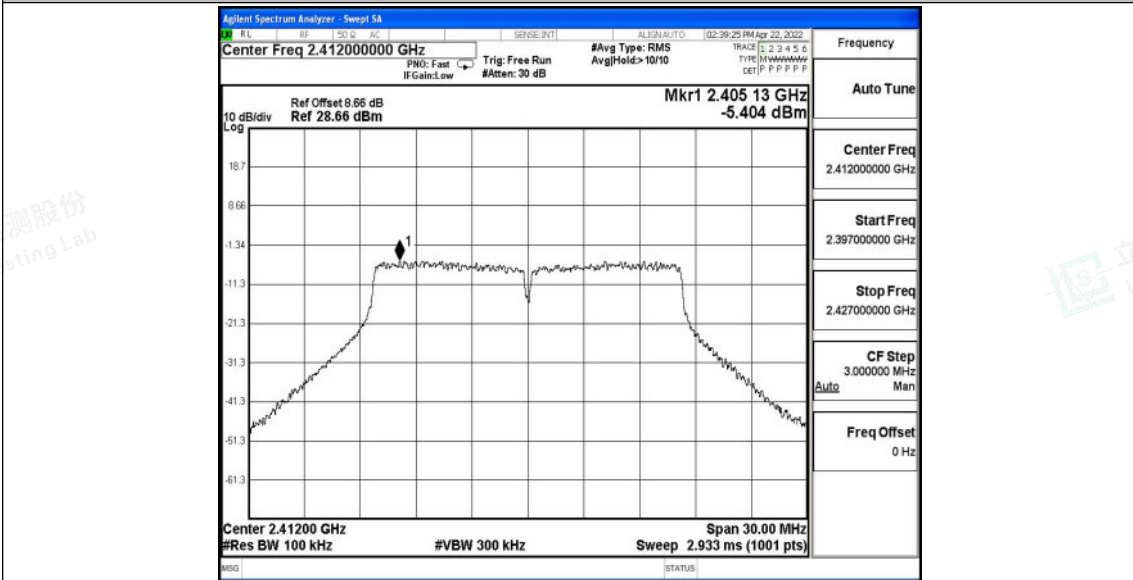


11B_Ant1_2462_1000~26500



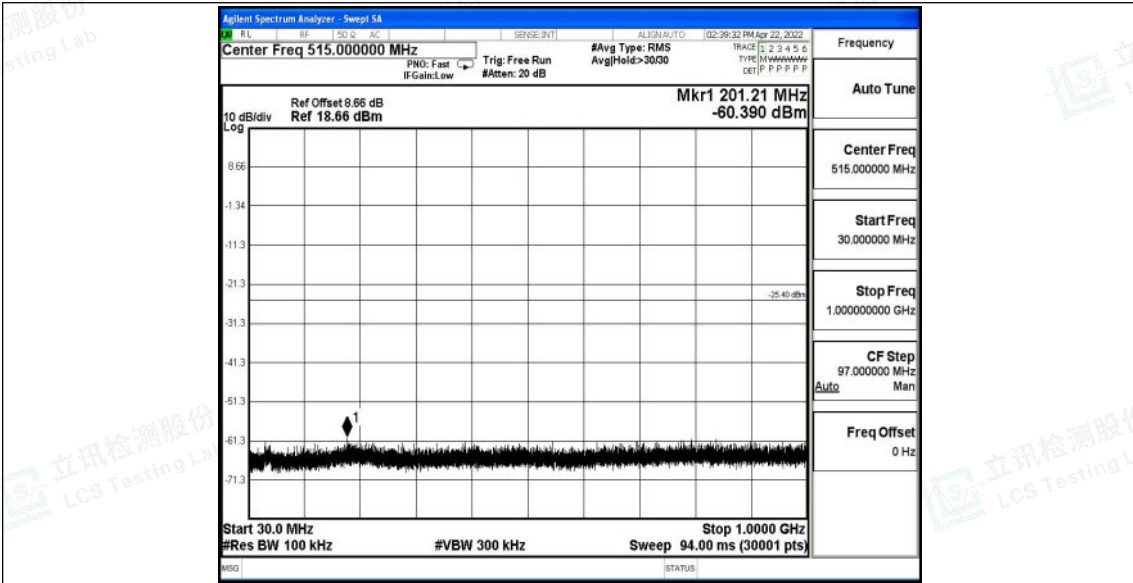


11G_Ant1_2412_0~Reference

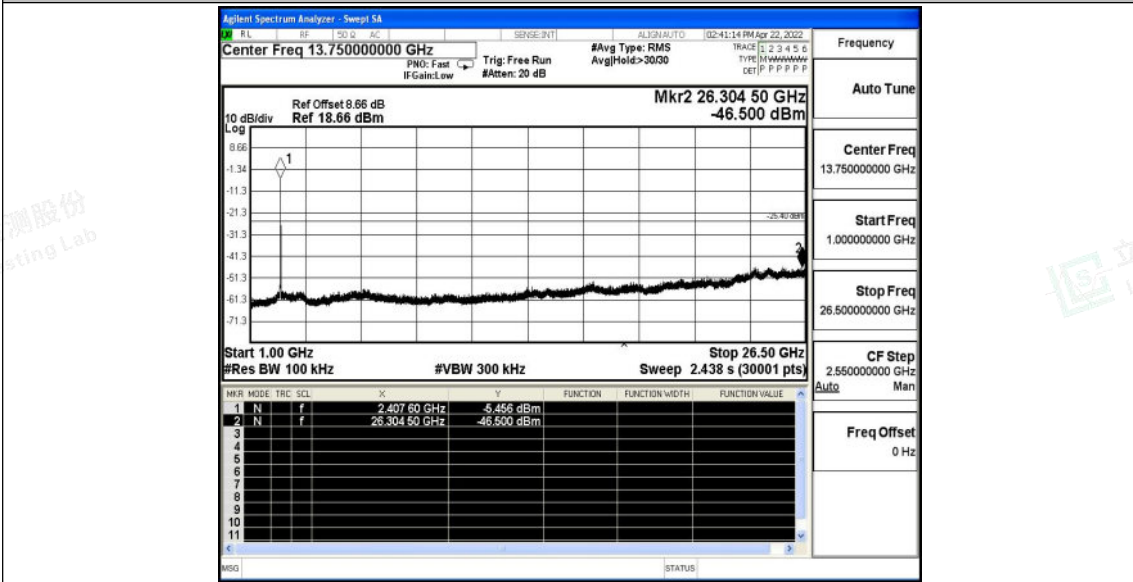


11G_Ant1_2412_30~1000



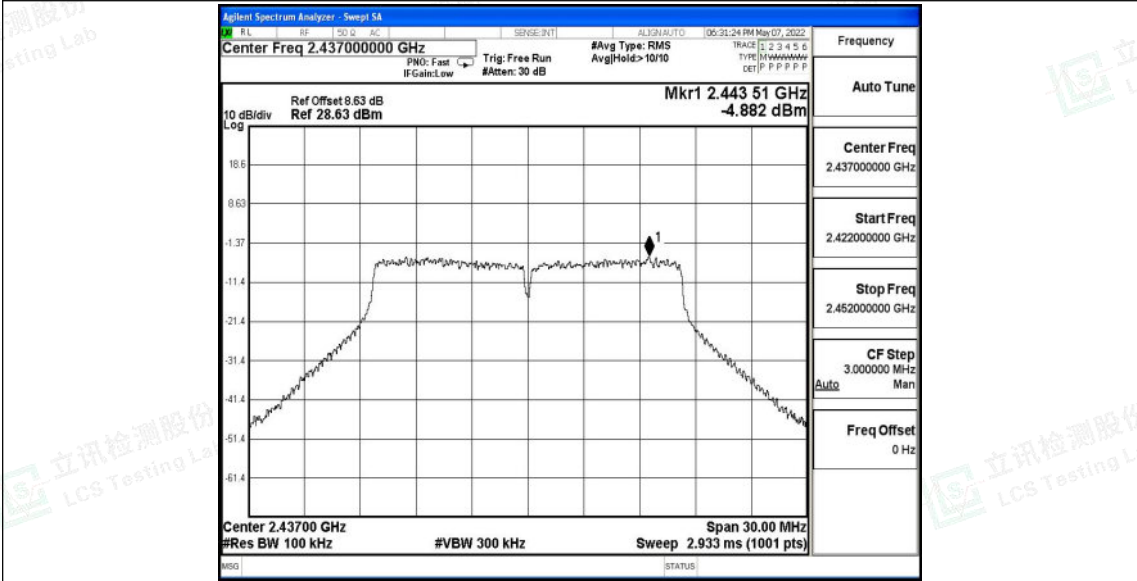


11G_Ant1_2412_1000~26500

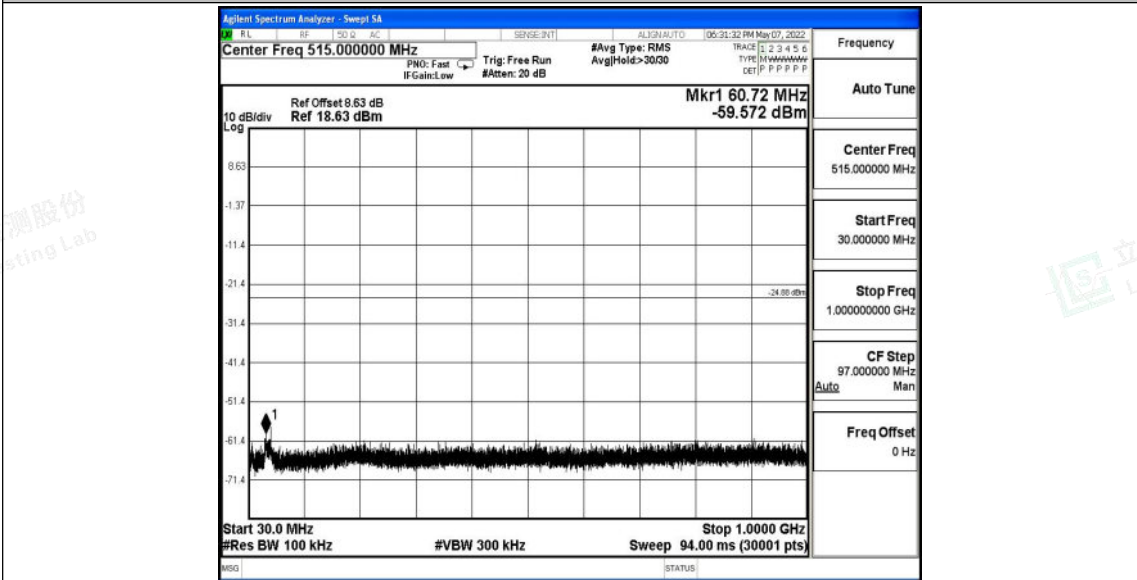


11G_Ant1_2437_0~Reference



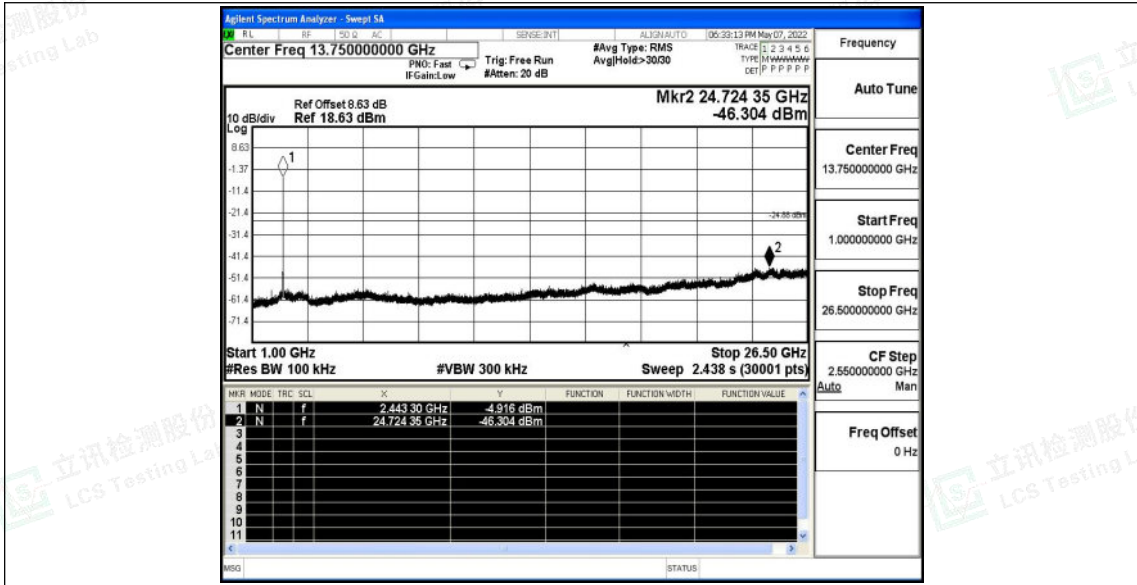


11G_Ant1_2437_30~1000

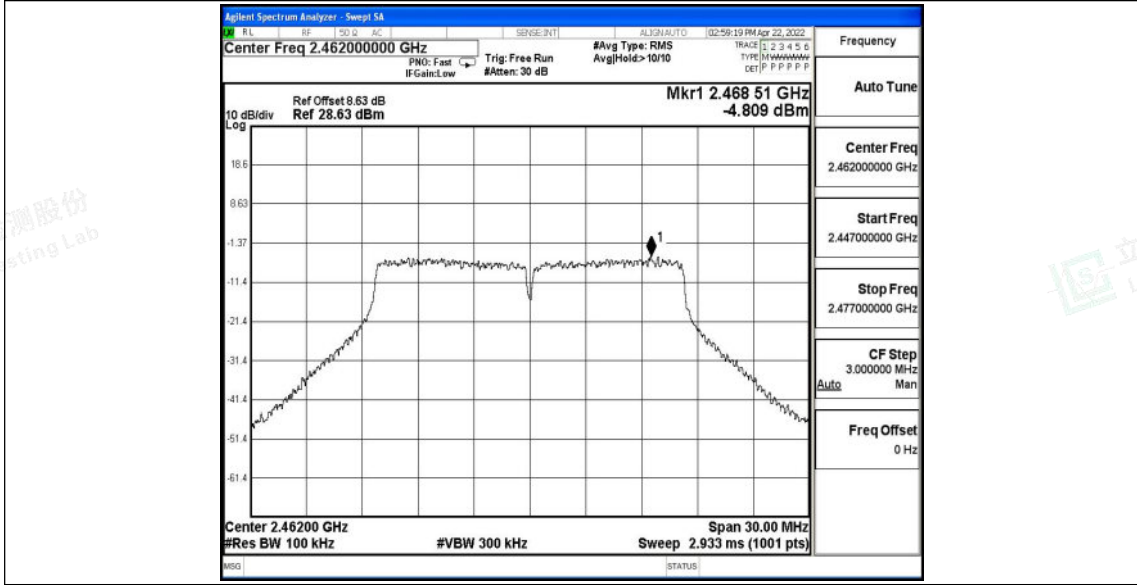


11G_Ant1_2437_1000~26500



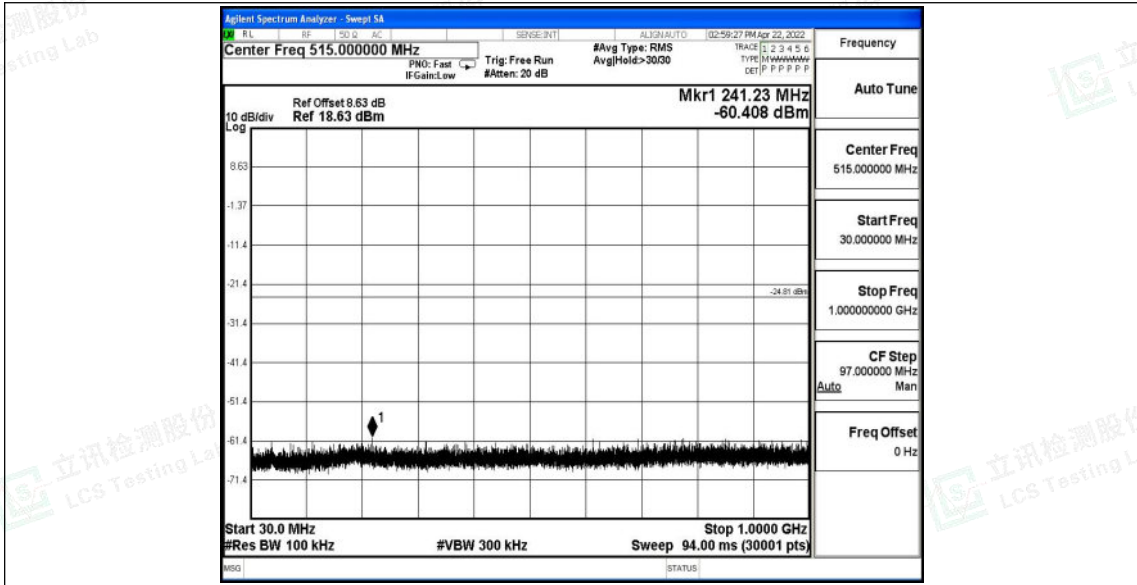


11G_Ant1_2462_0~Reference

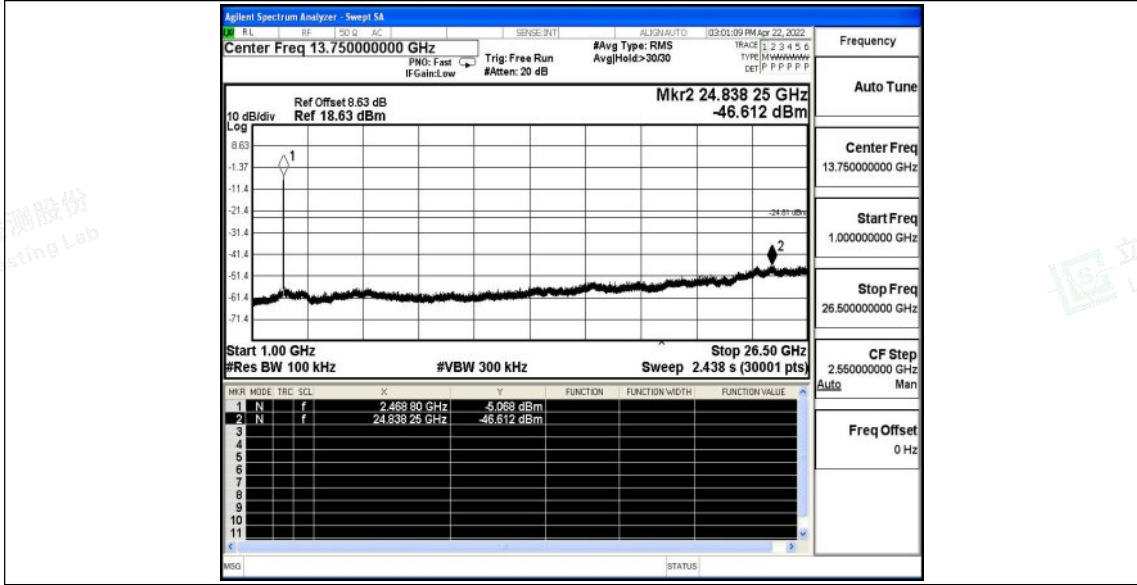


11G_Ant1_2462_30~1000



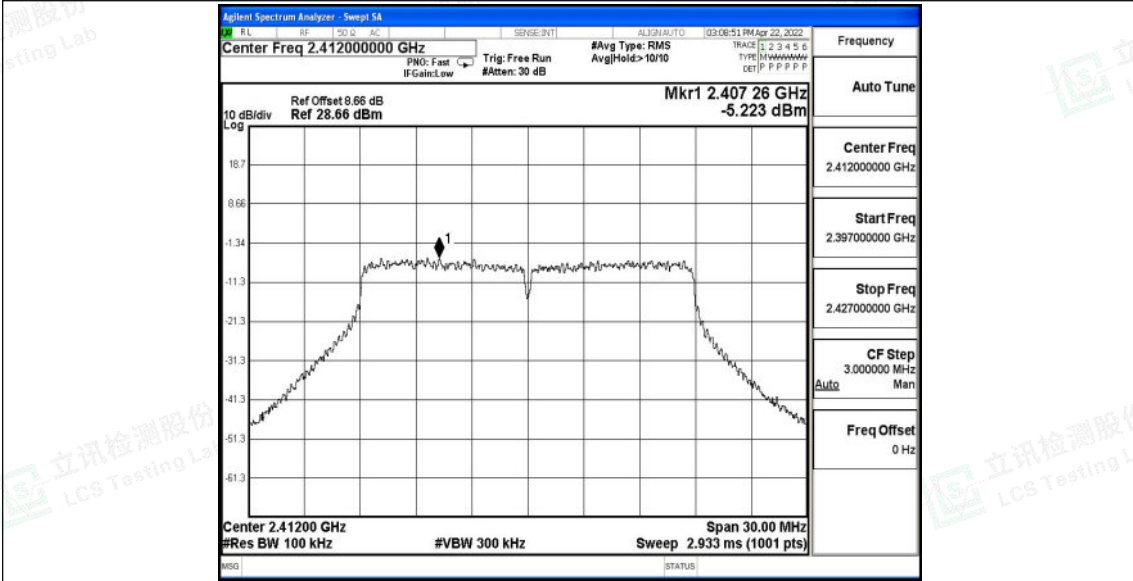


11G_Ant1_2462_1000~26500

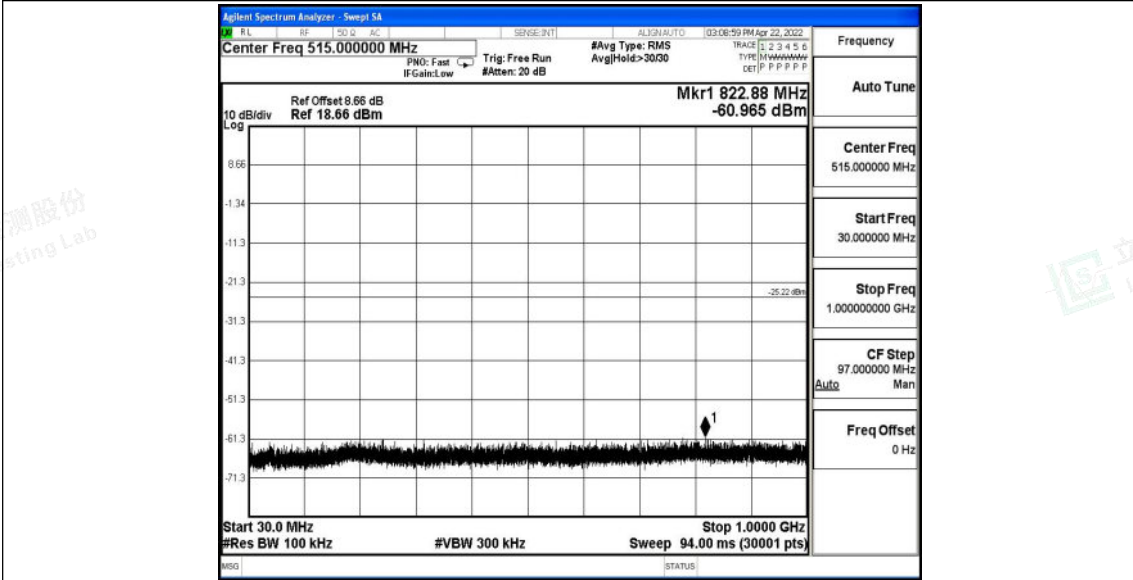


11N20SISO_Ant1_2412_0~Reference



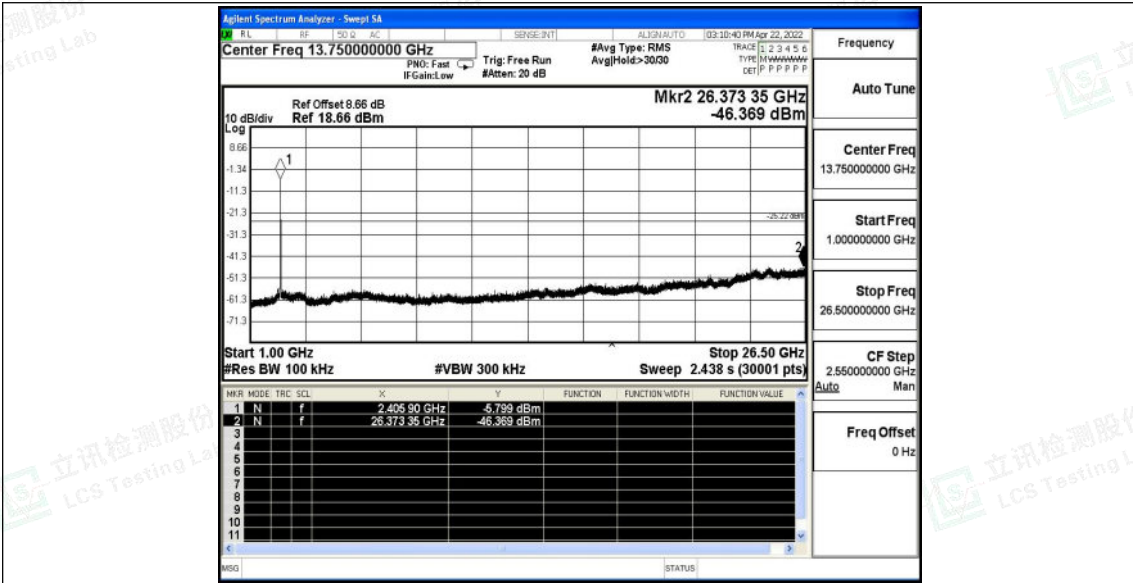


11N20SISO_Ant1_2412_30~1000

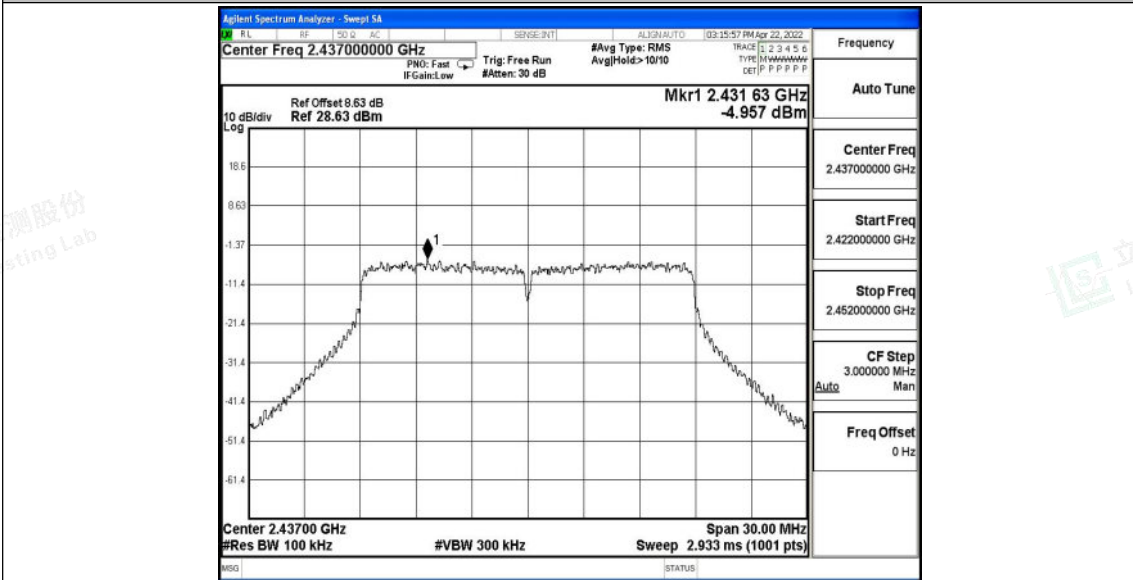


11N20SISO_Ant1_2412_1000~26500



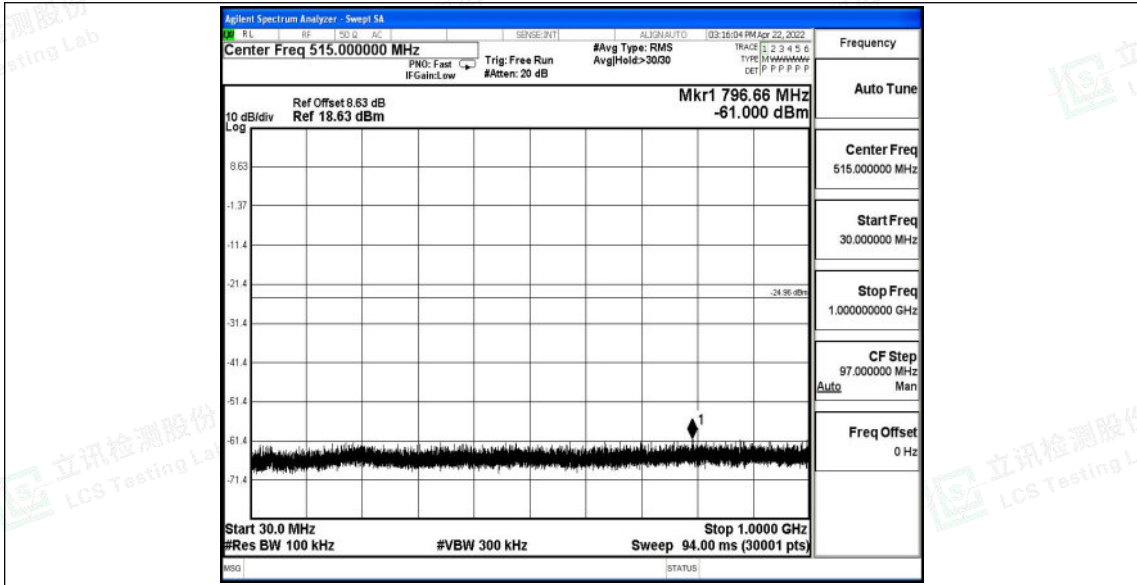


11N20SISO_Ant1_2437_0~Reference

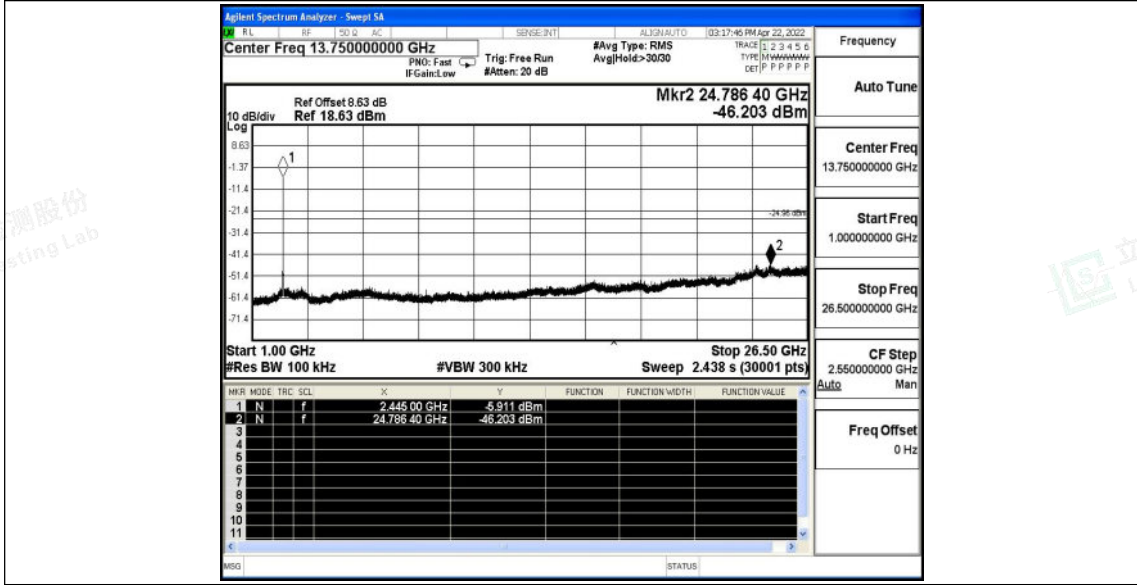


11N20SISO_Ant1_2437_30~1000



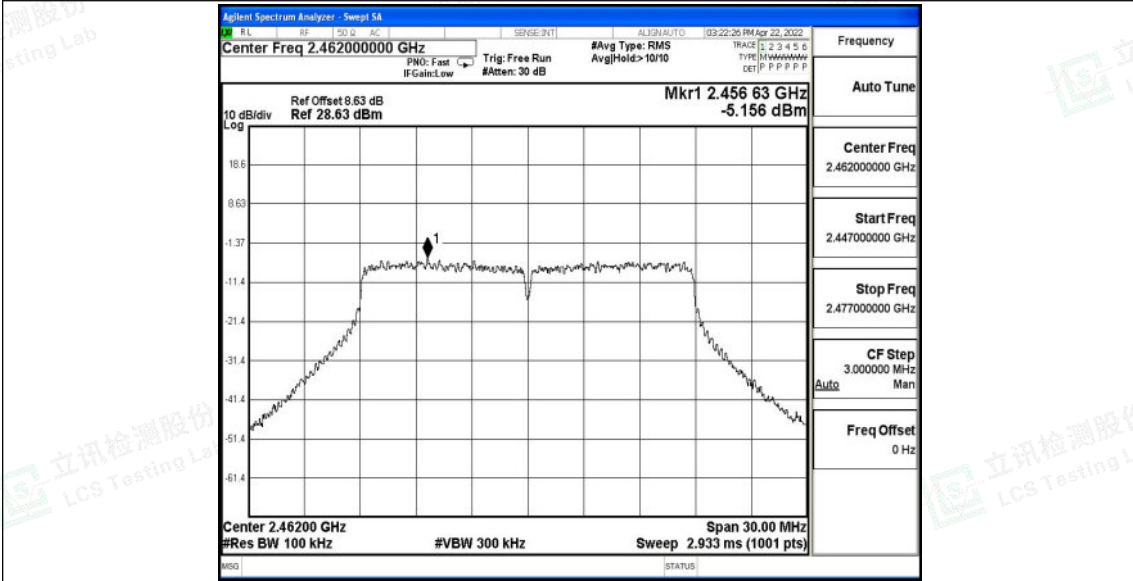


11N20SISO_Ant1_2437_1000~26500

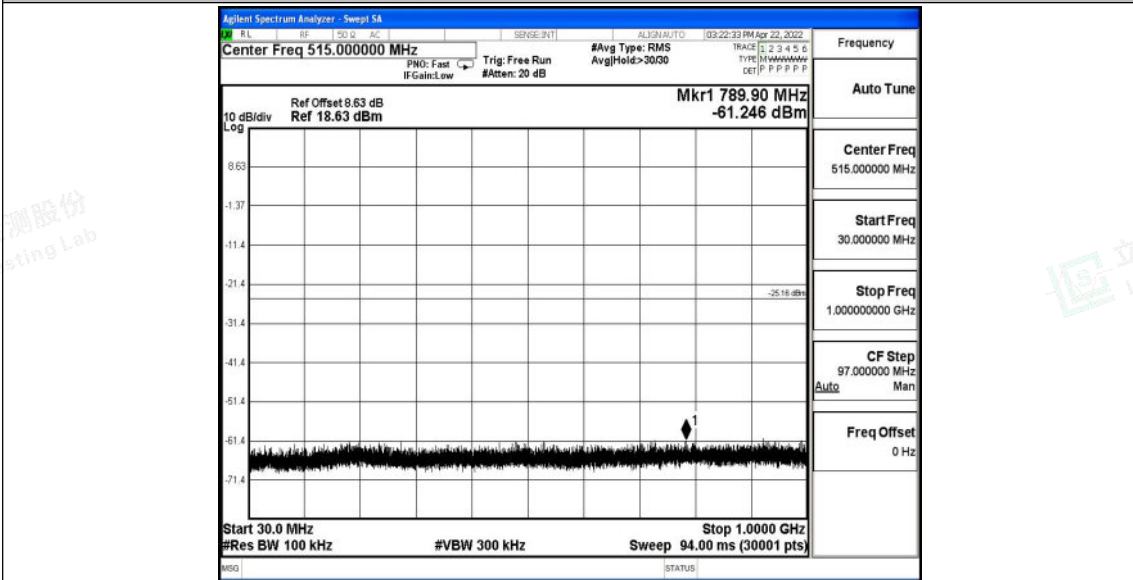


11N20SISO_Ant1_2462_0~Reference



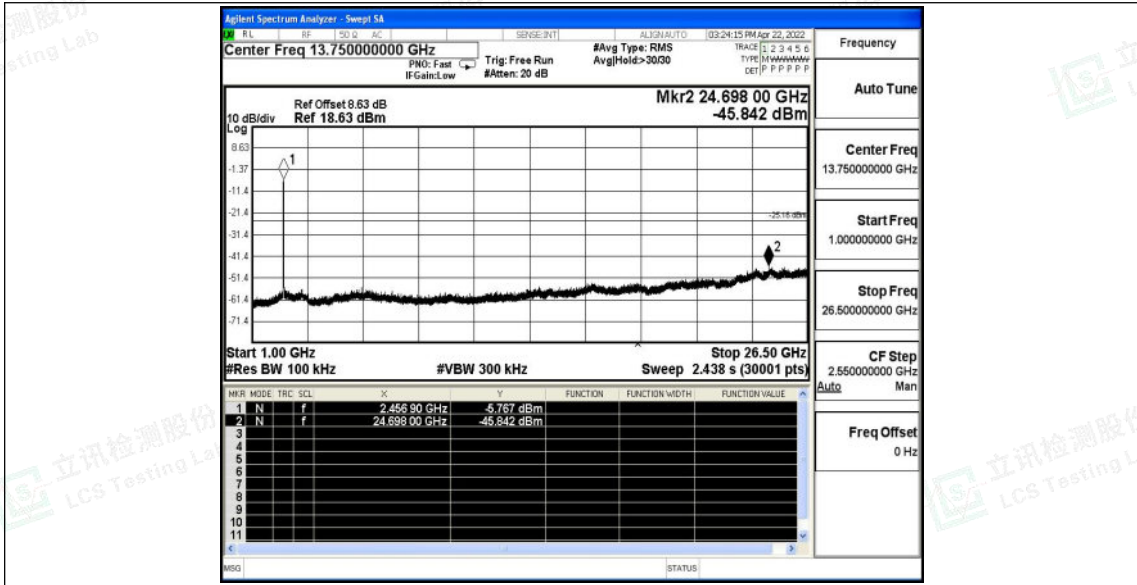


11N20SISO_Ant1_2462_30~1000

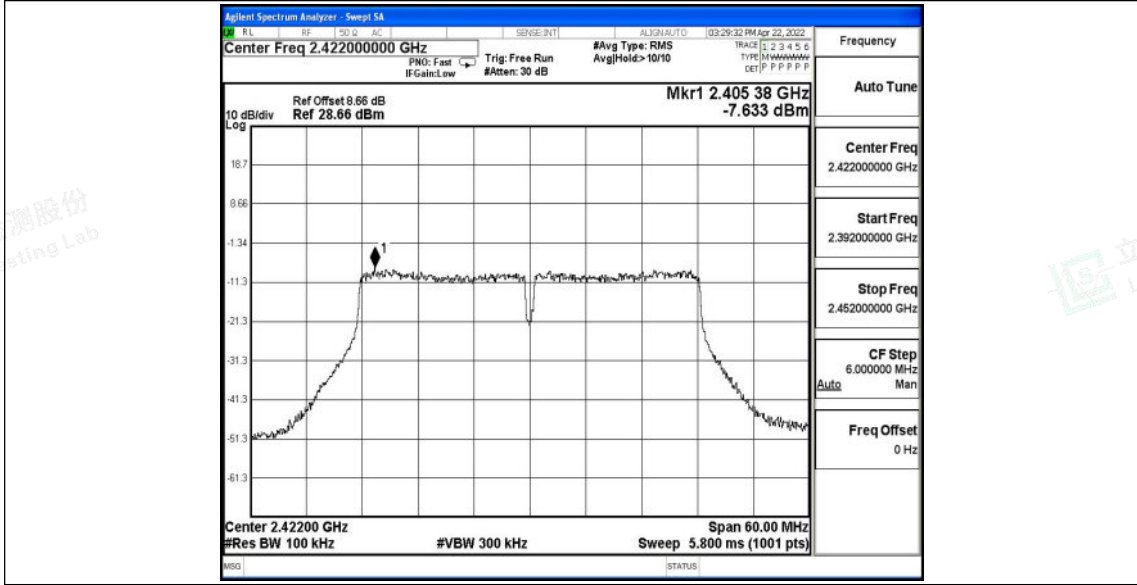


11N20SISO_Ant1_2462_1000~26500





11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000

