



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 4G FIXED WIRELESS PHONE

Test Model: LS830

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





C.1 6dB Bandwidth

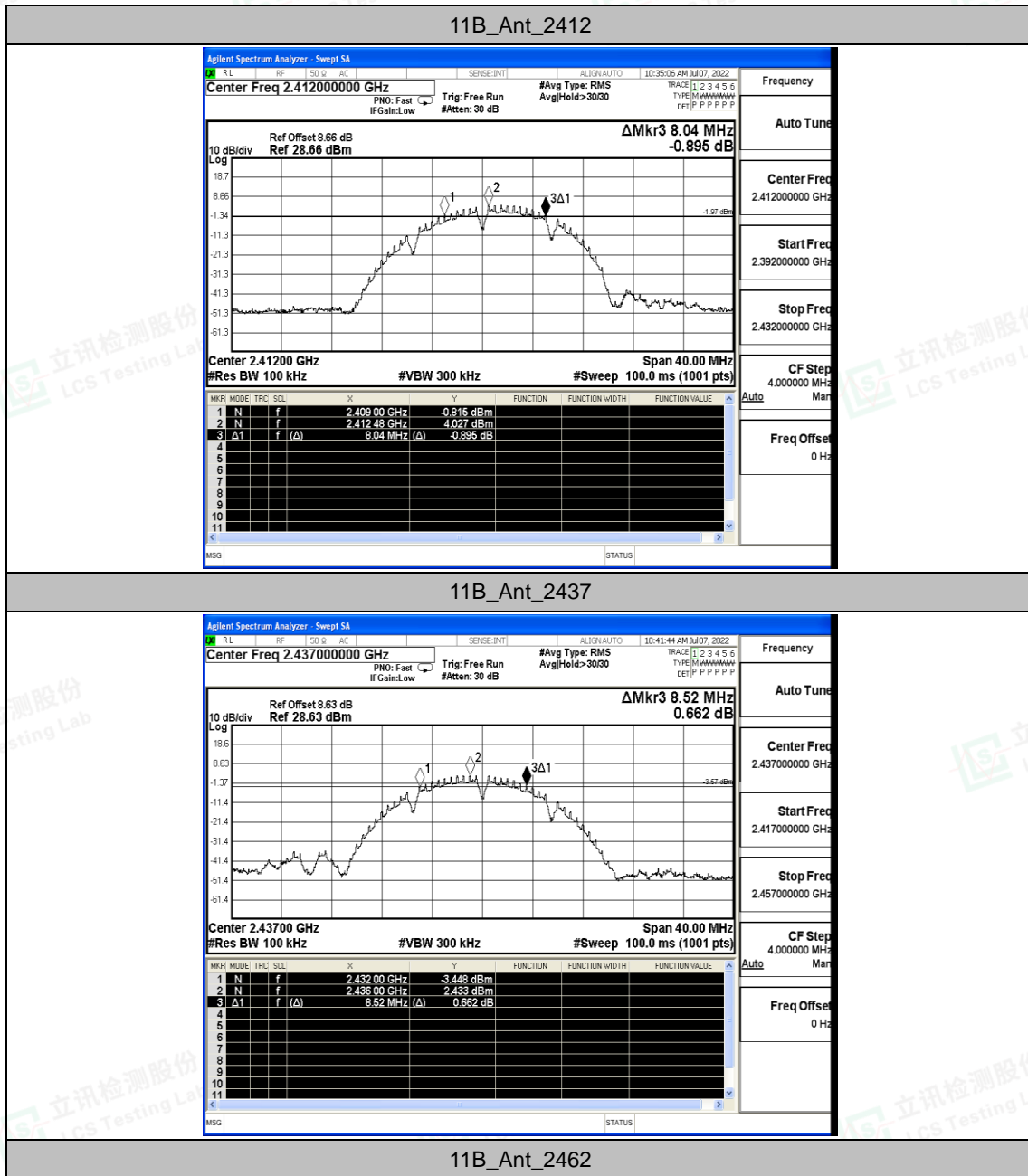
Test Result

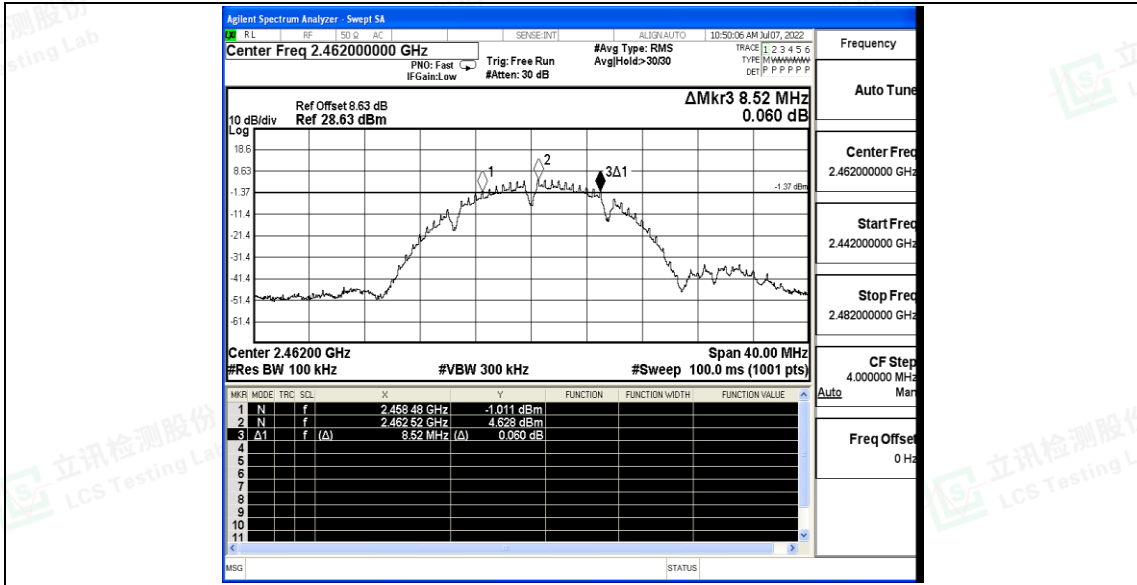
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	8.040	2409.000	2417.040	0.5	PASS
		2437	8.520	2432.000	2440.520	0.5	PASS
		2462	8.520	2458.480	2467.000	0.5	PASS
11G	Ant	2412	9.480	2410.720	2420.200	0.5	PASS
		2437	13.240	2428.800	2442.040	0.5	PASS
		2462	14.440	2455.720	2470.160	0.5	PASS
11N20SISO	Ant	2412	10.080	2410.720	2420.800	0.5	PASS
		2437	15.120	2428.120	2443.240	0.5	PASS
		2462	15.160	2455.720	2470.880	0.5	PASS
11N40SISO	Ant	2422	11.360	2415.680	2427.040	0.5	PASS
		2437	10.480	2419.080	2429.560	0.5	PASS
		2452	35.680	2434.480	2470.160	0.5	PASS



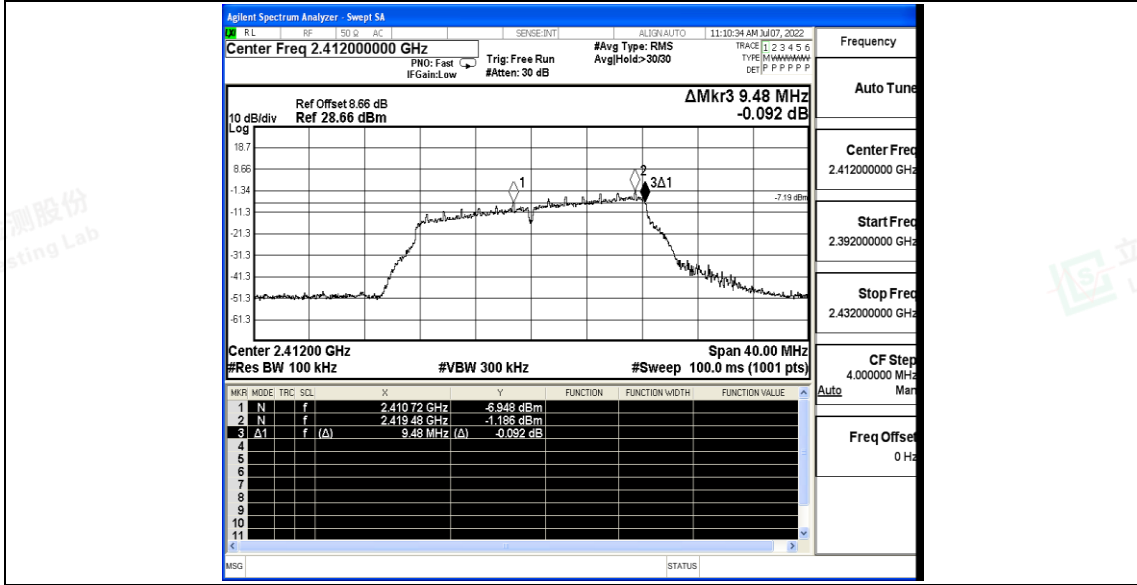


Test Graphs



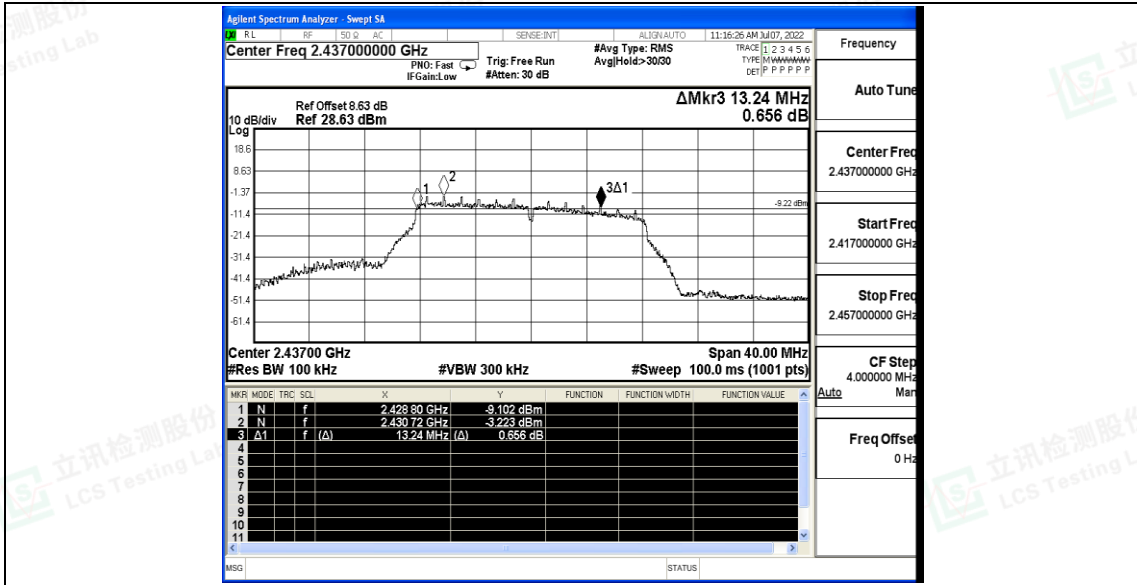


11G_Ant_2412

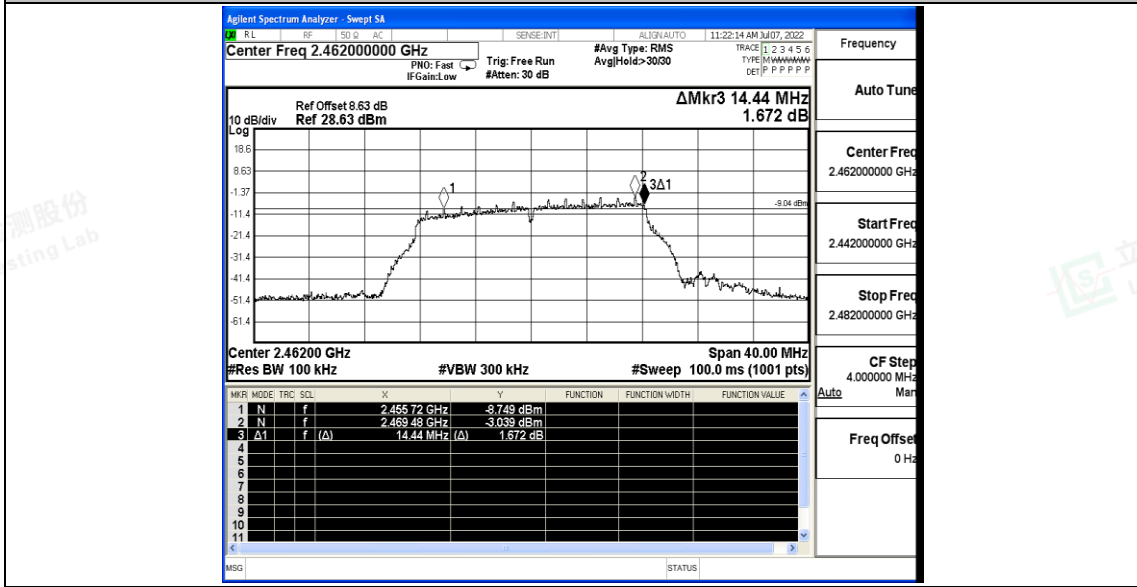


11G_Ant_2437



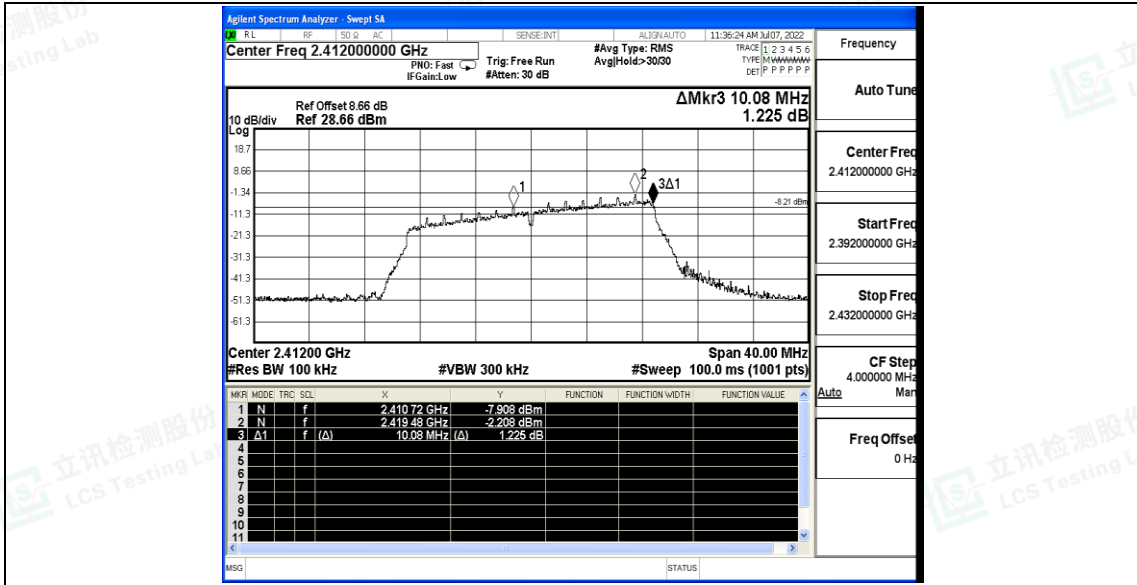


11G_Ant_2462

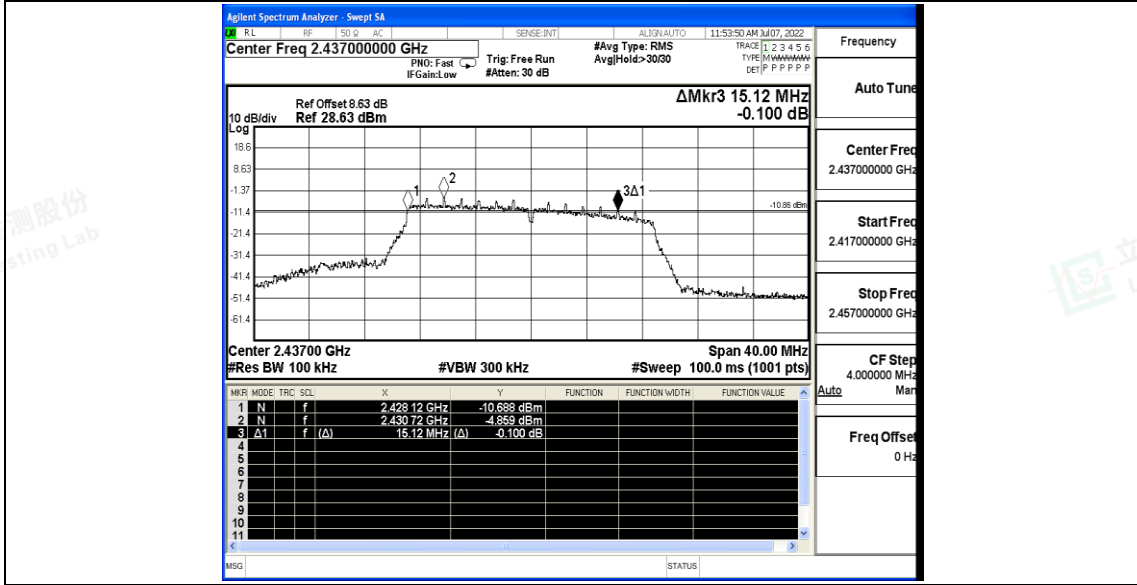


11N20SISO_Ant_2412



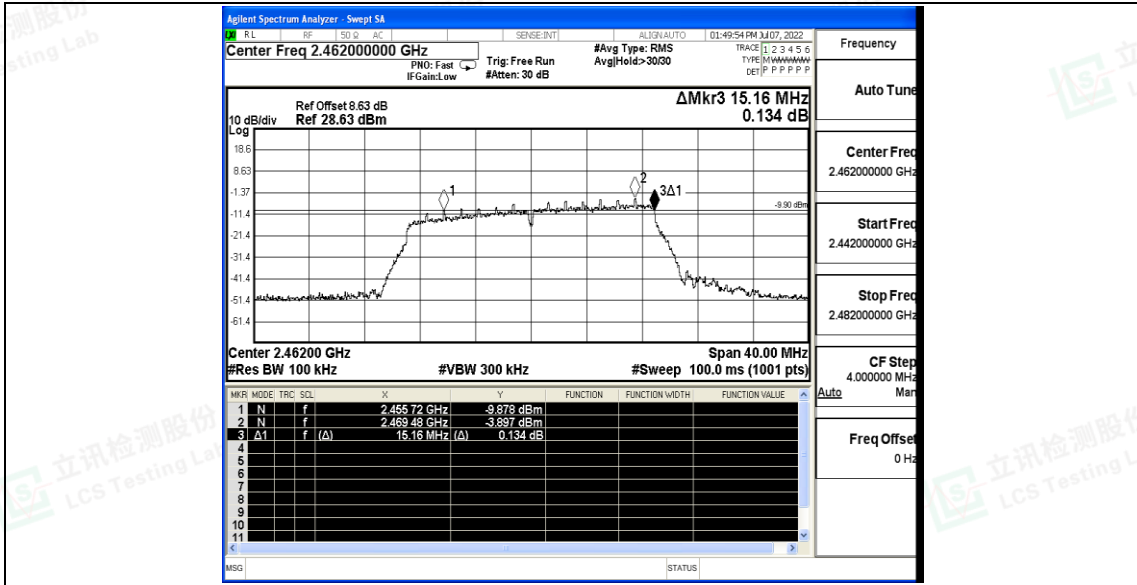


11N20SISO_Ant_2437

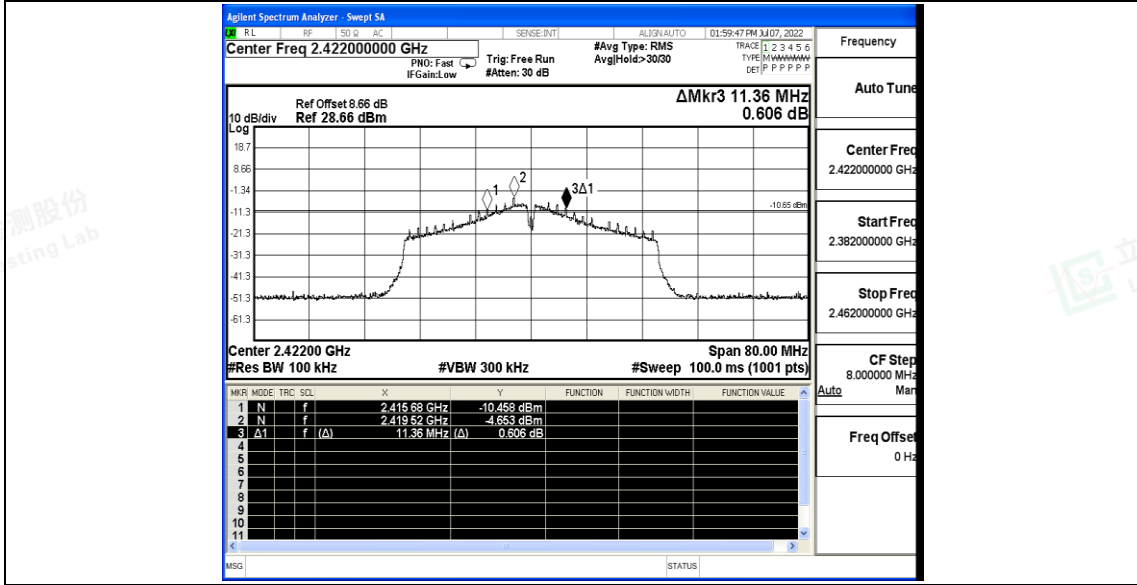


11N20SISO_Ant_2462



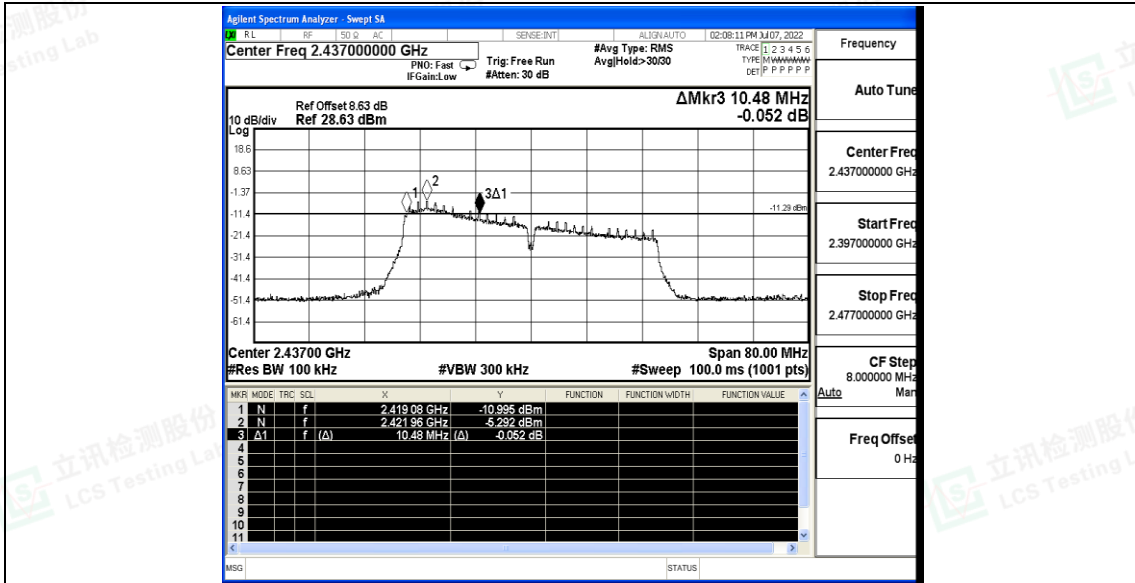


11N40SISO_Ant_2422

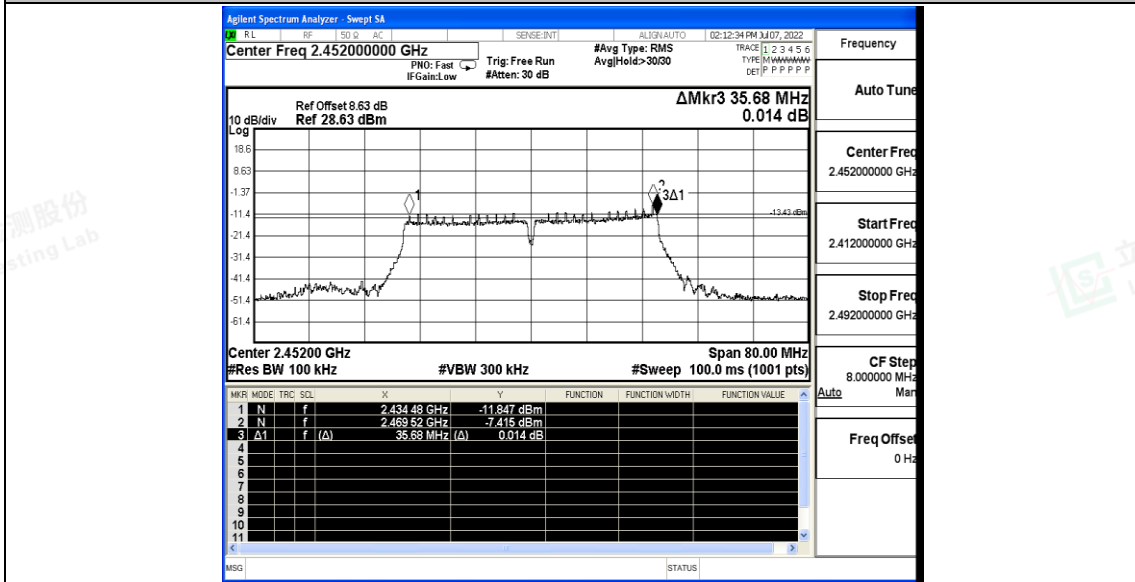


11N40SISO_Ant_2437





11N40SISO_Ant_2452





C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	2412	15.17	≤30.00	PASS
		2437	15.44	≤30.00	PASS
		2462	15.60	≤30.00	PASS
11G	Ant	2412	14.81	≤30.00	PASS
		2437	14.67	≤30.00	PASS
		2462	14.49	≤30.00	PASS
11N20SISO	Ant	2412	13.95	≤30.00	PASS
		2437	13.12	≤30.00	PASS
		2462	13.55	≤30.00	PASS
11N40SISO	Ant	2422	12.55	≤30.00	PASS
		2437	12.04	≤30.00	PASS
		2452	12.21	≤30.00	PASS





C.3 Maximum power spectral density

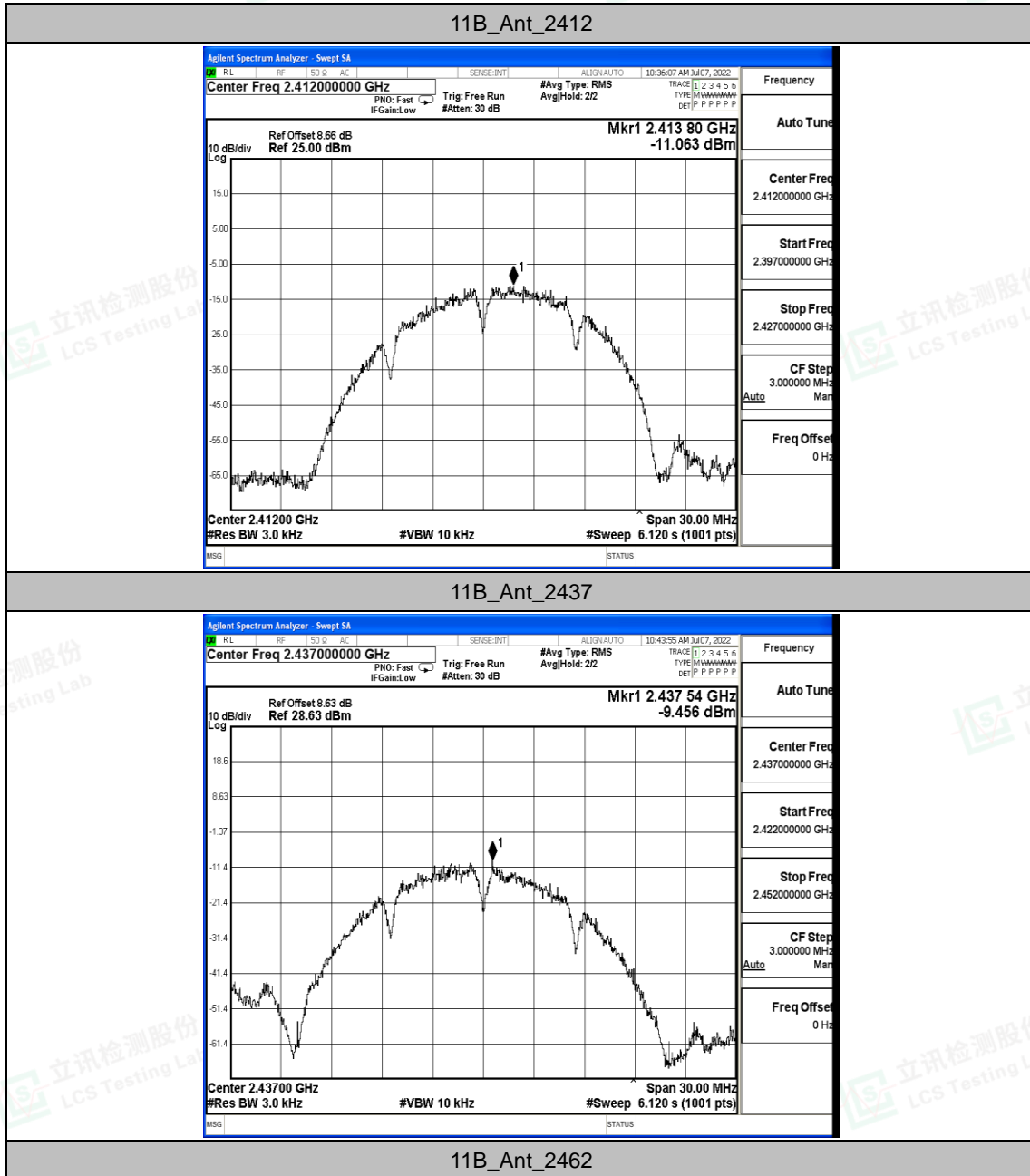
Test Result

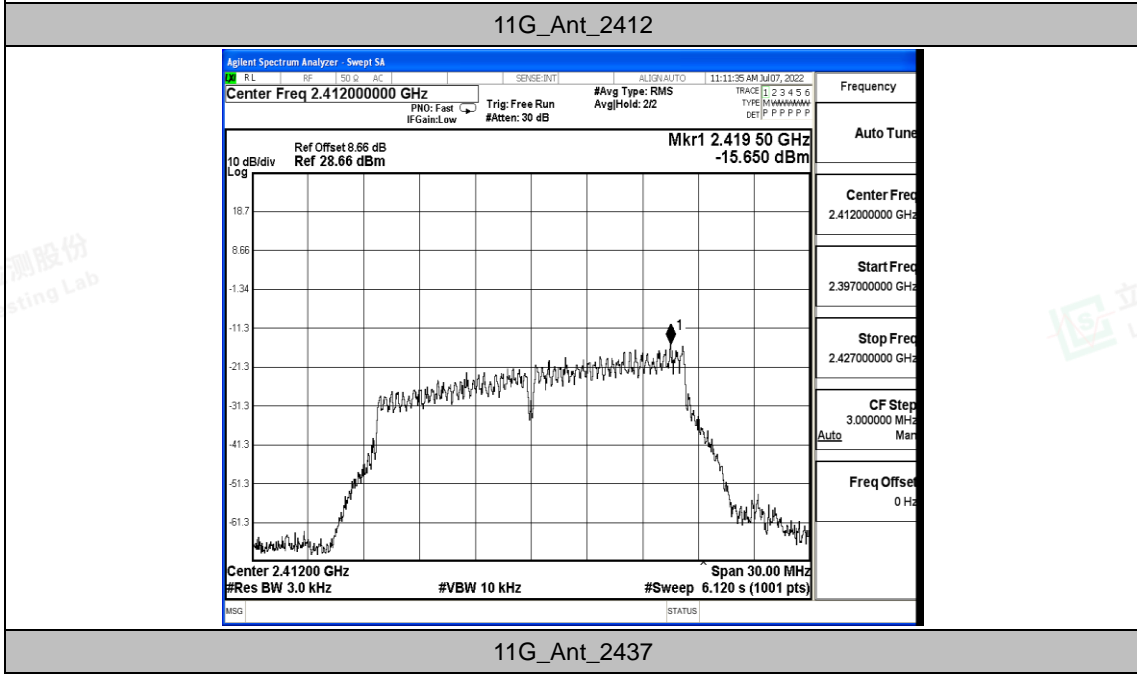
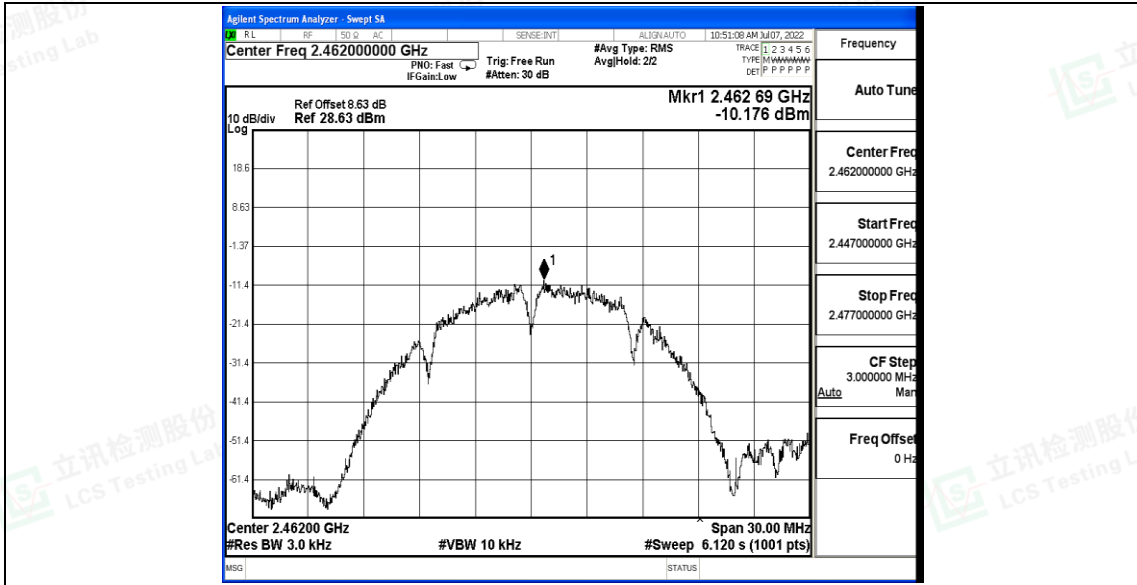
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant	2412	-11.06	≤8.00	PASS
		2437	-9.46	≤8.00	PASS
		2462	-10.18	≤8.00	PASS
11G	Ant	2412	-16.75	≤8.00	PASS
		2437	-16.52	≤8.00	PASS
		2462	-18.02	≤8.00	PASS
11N20SISO	Ant	2412	-17.35	≤8.00	PASS
		2437	-19.22	≤8.00	PASS
		2462	-18.81	≤8.00	PASS
11N40SISO	Ant	2422	-19.01	≤8.00	PASS
		2437	-20.38	≤8.00	PASS
		2452	-22.58	≤8.00	PASS

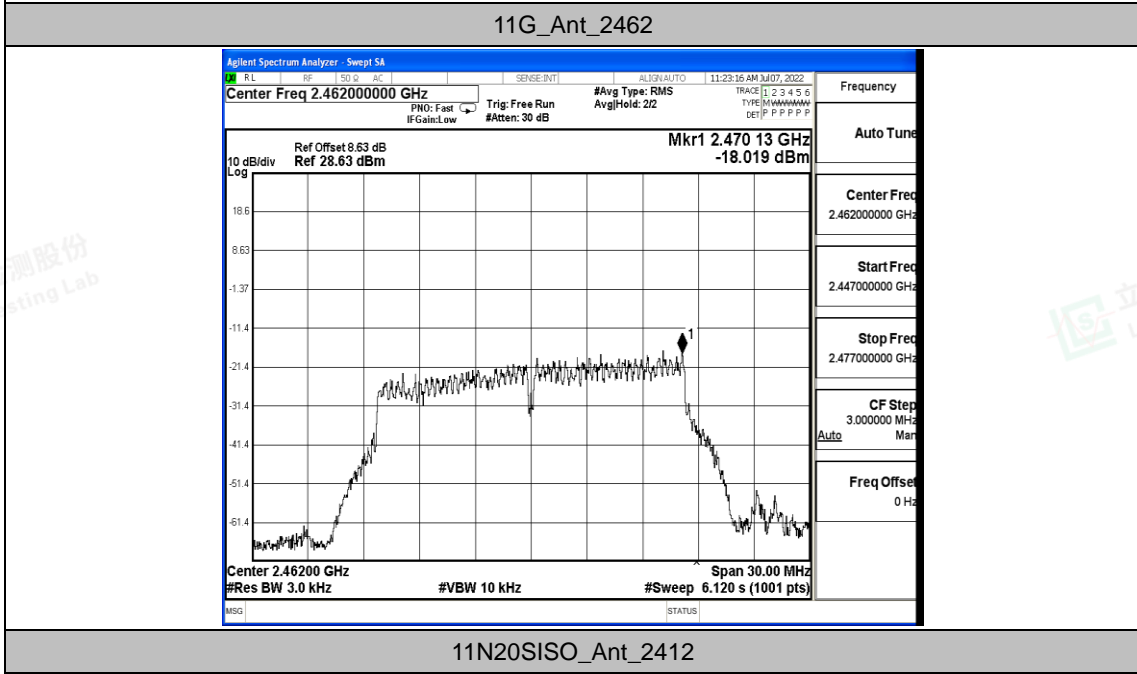
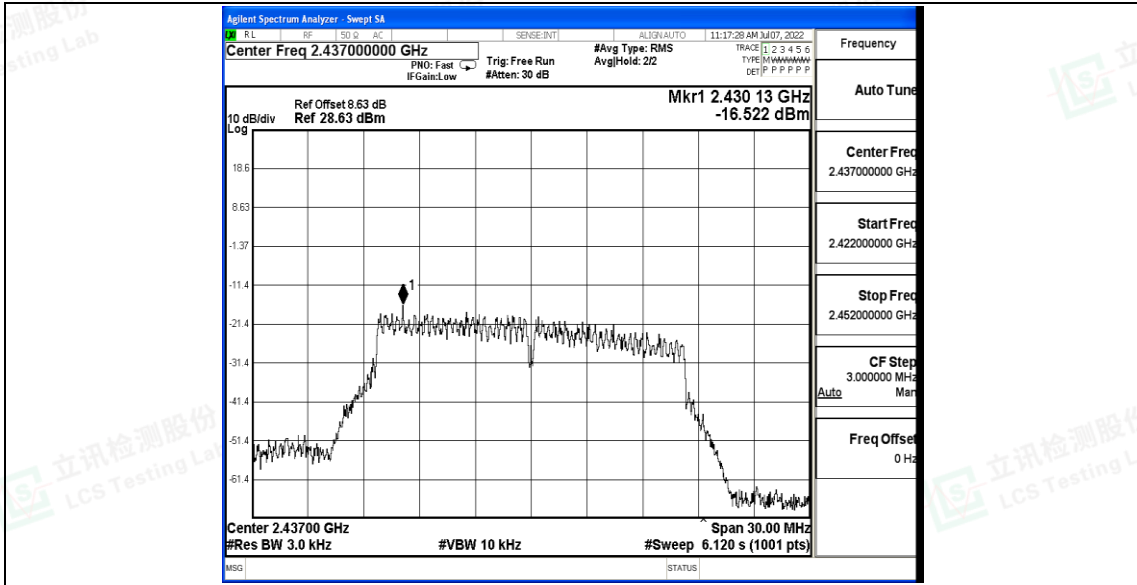


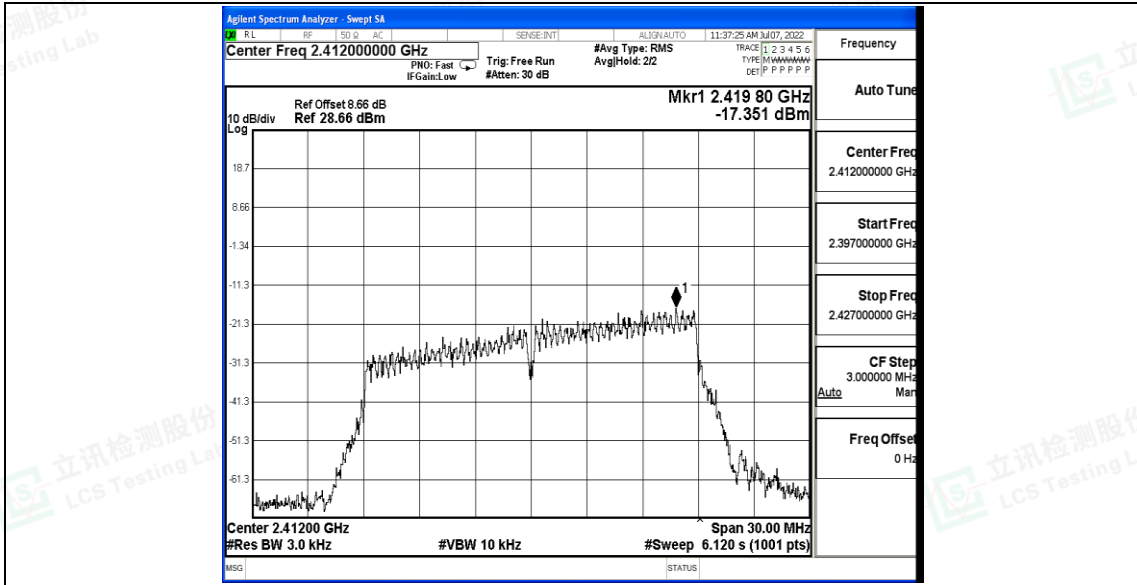


Test Graphs

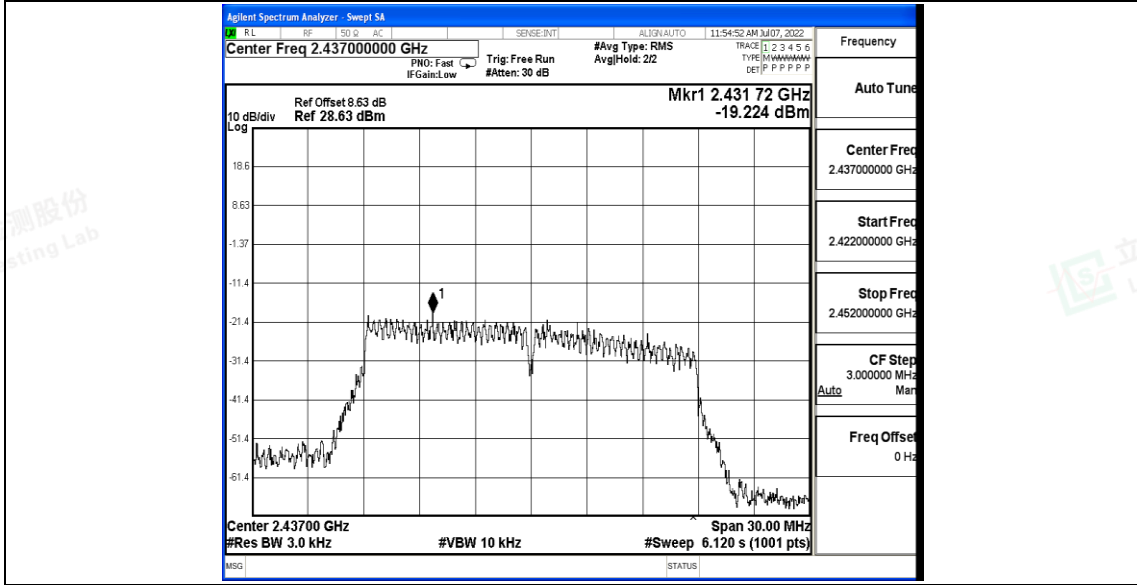






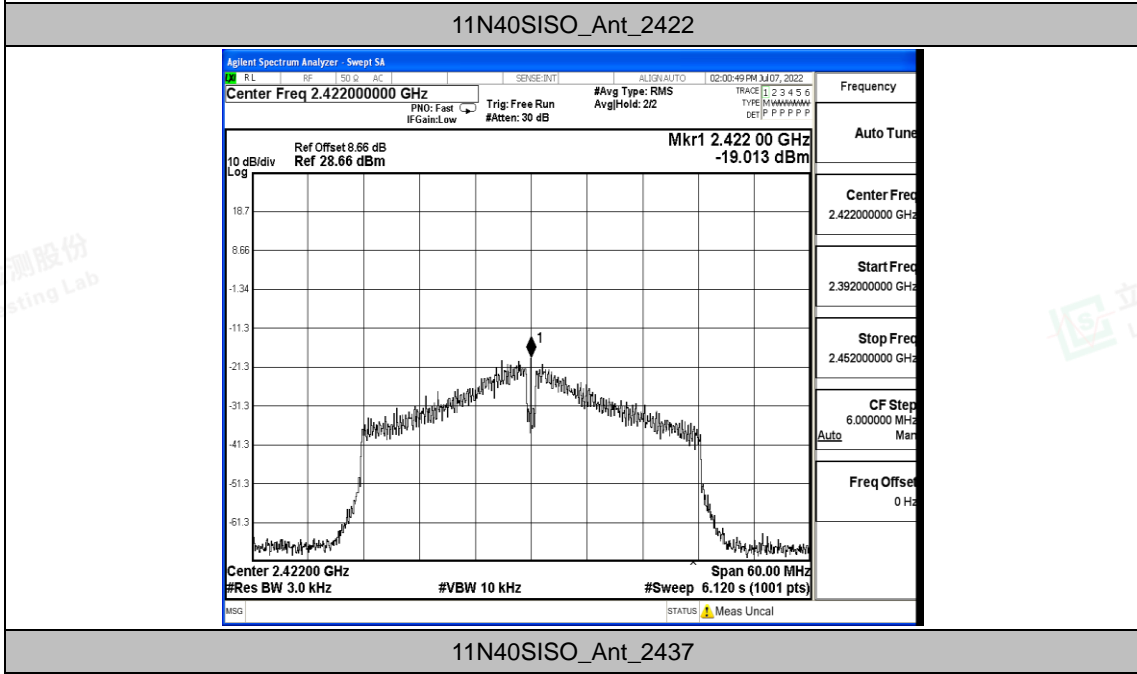
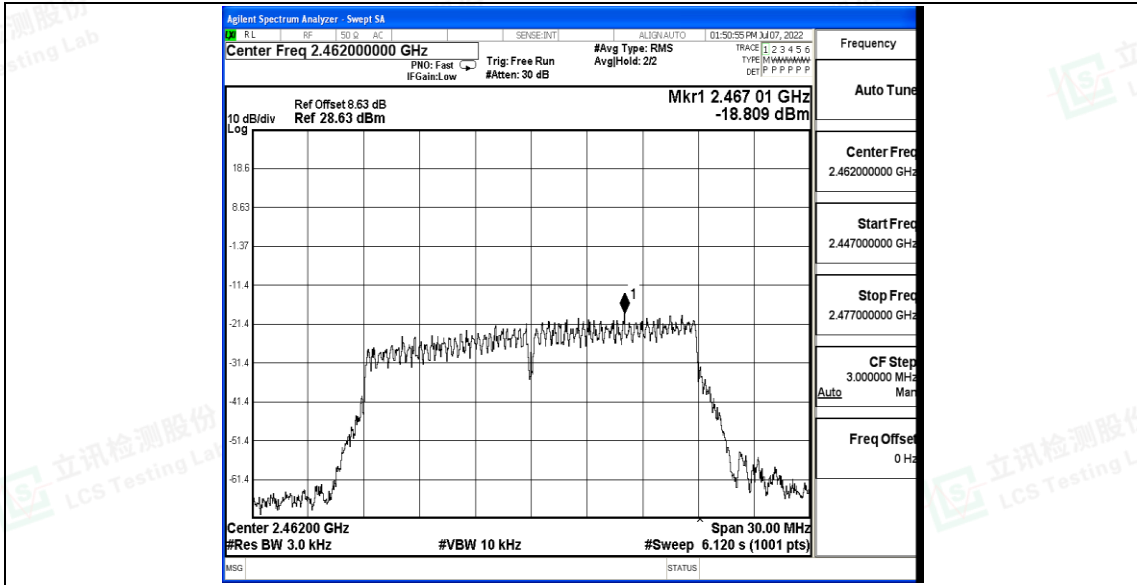


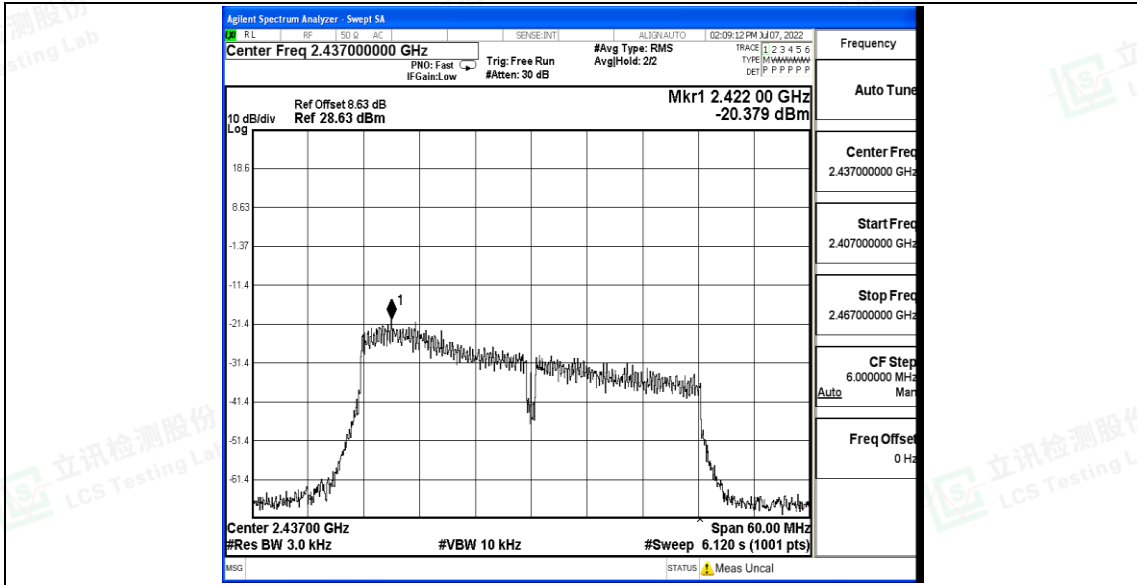
11N20SISO_Ant_2437



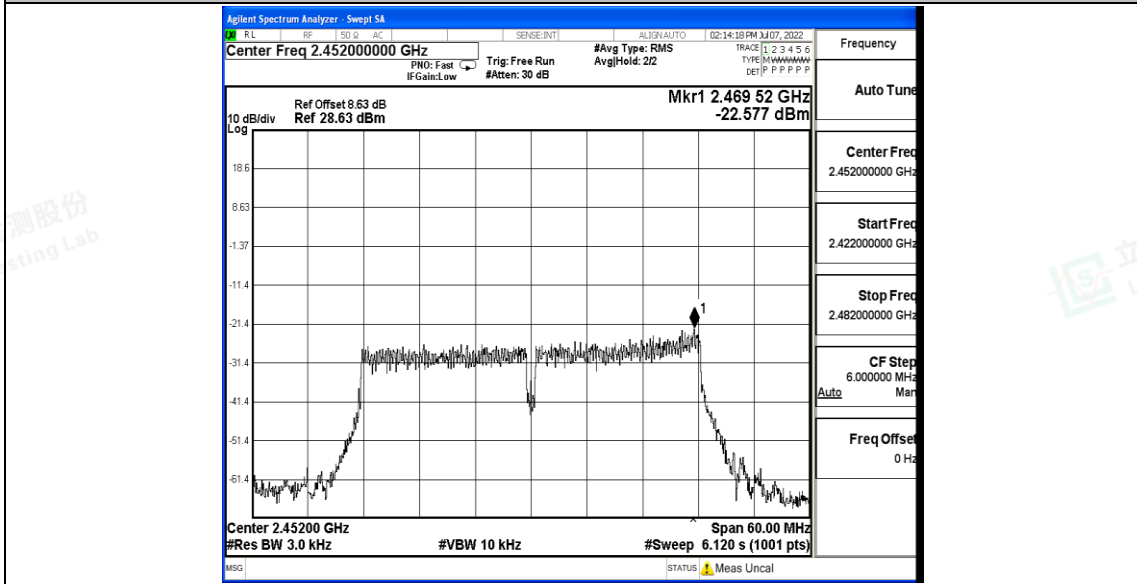
11N20SISO_Ant_2462







11N40SISO_Ant_2452





C.4 Band edge measurements

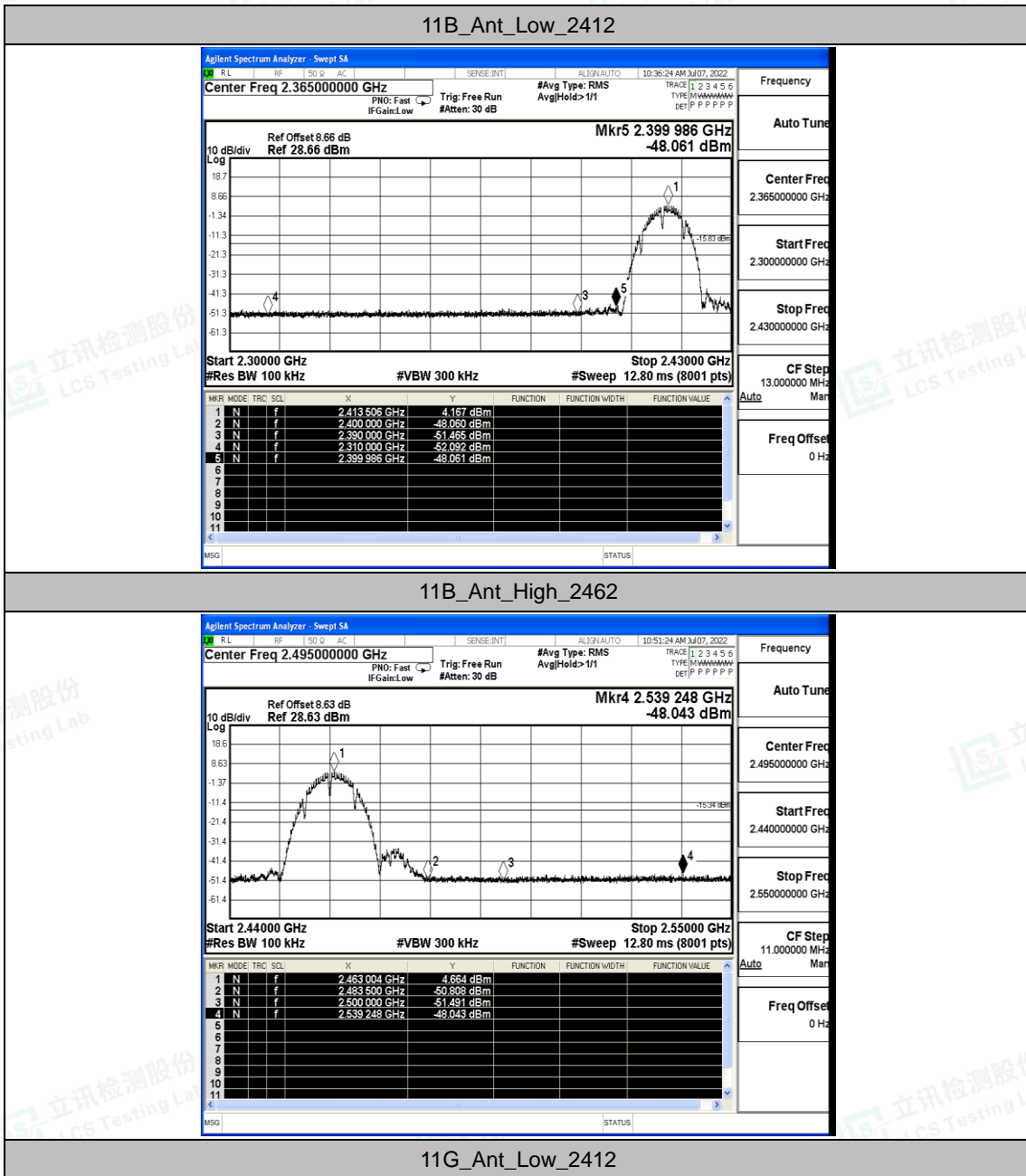
Test Result

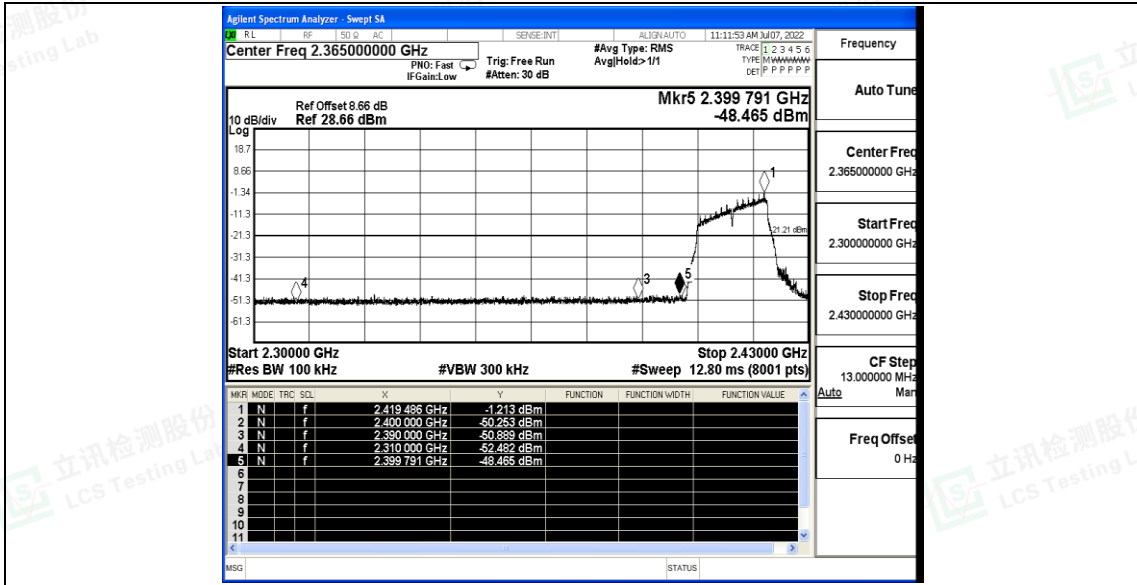
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	4.17	-48.06	≤-15.83	PASS
		High	2462	4.66	-48.04	≤-15.34	PASS
11G	Ant	Low	2412	-1.21	-48.47	≤-21.21	PASS
		High	2462	-2.99	-47.32	≤-22.99	PASS
11N20SISO	Ant	Low	2412	-2.25	-48.46	≤-22.25	PASS
		High	2462	-3.78	-47.65	≤-23.78	PASS
11N40SISO	Ant	Low	2422	-5.17	-48.61	≤-25.17	PASS
		High	2452	-7.33	-47.88	≤-27.33	PASS



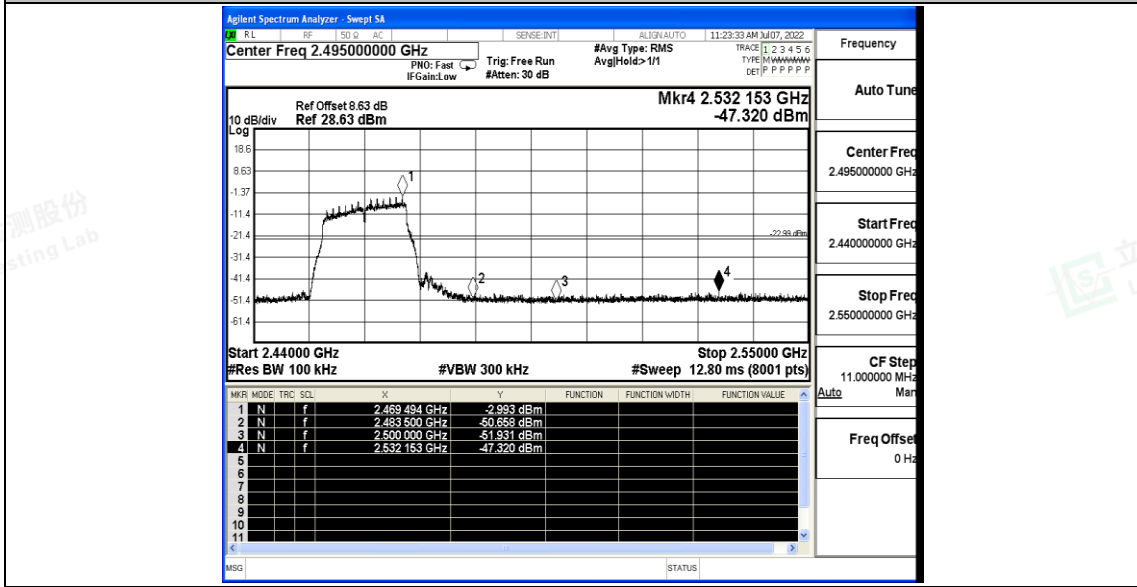


Test Graphs



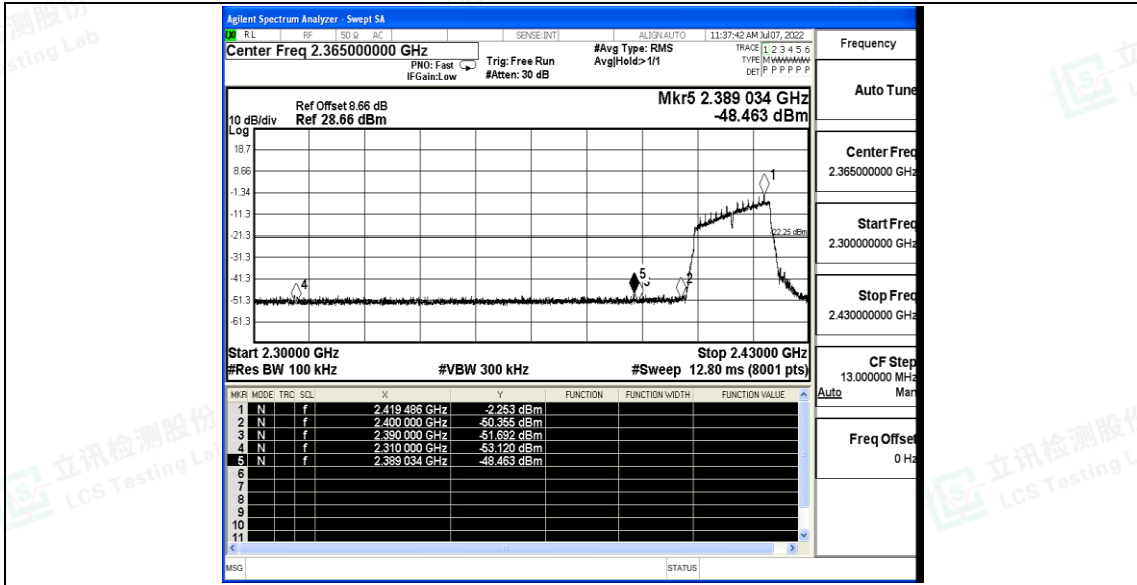


11G_Ant_High_2462

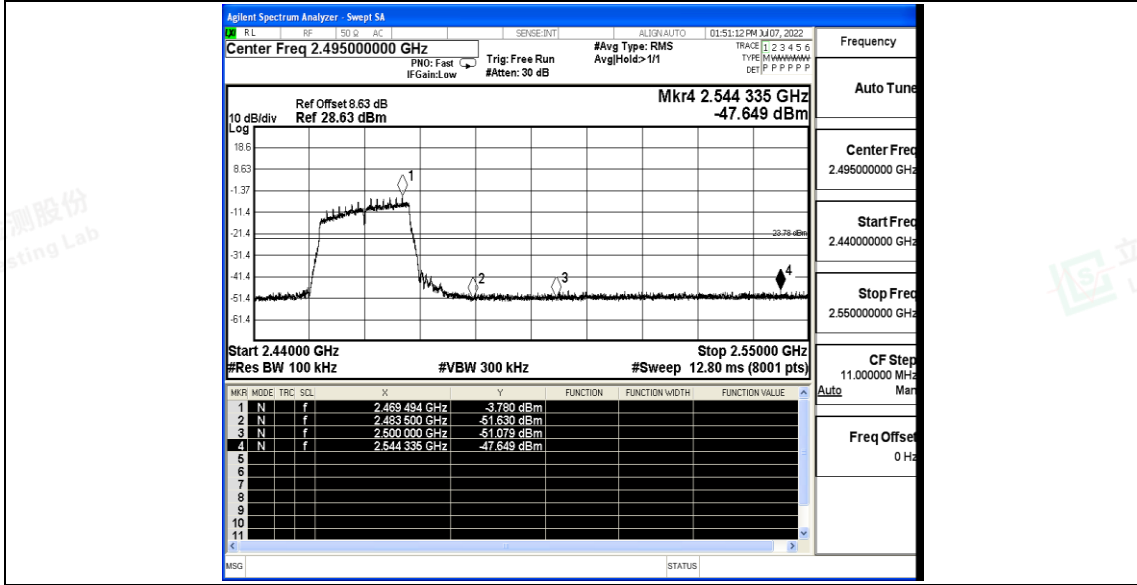


11N20SISO_Ant_Low_2412



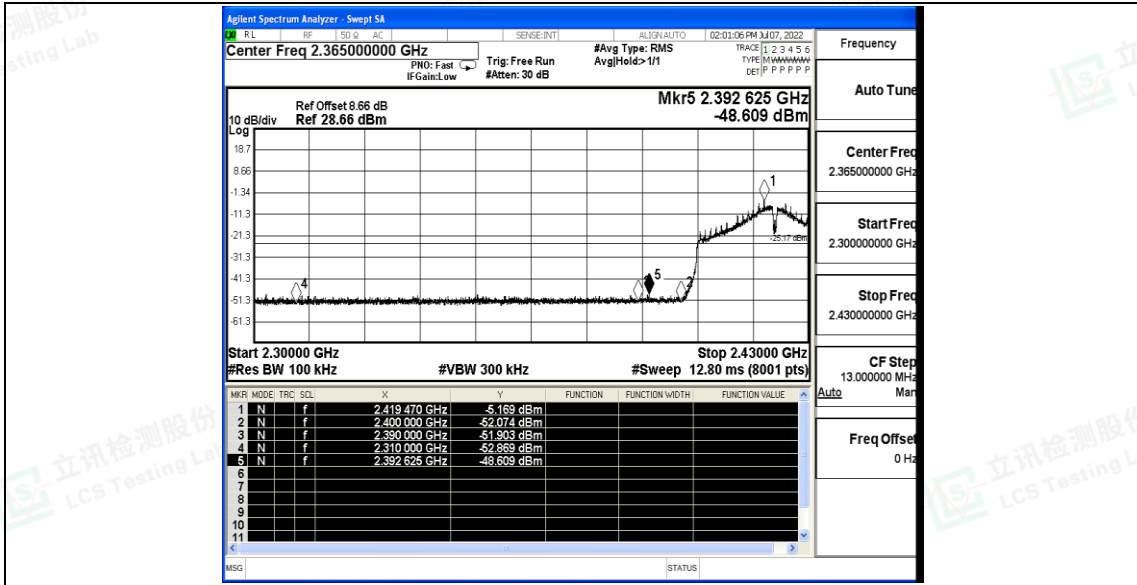


11N20SISO_Ant_High_2462

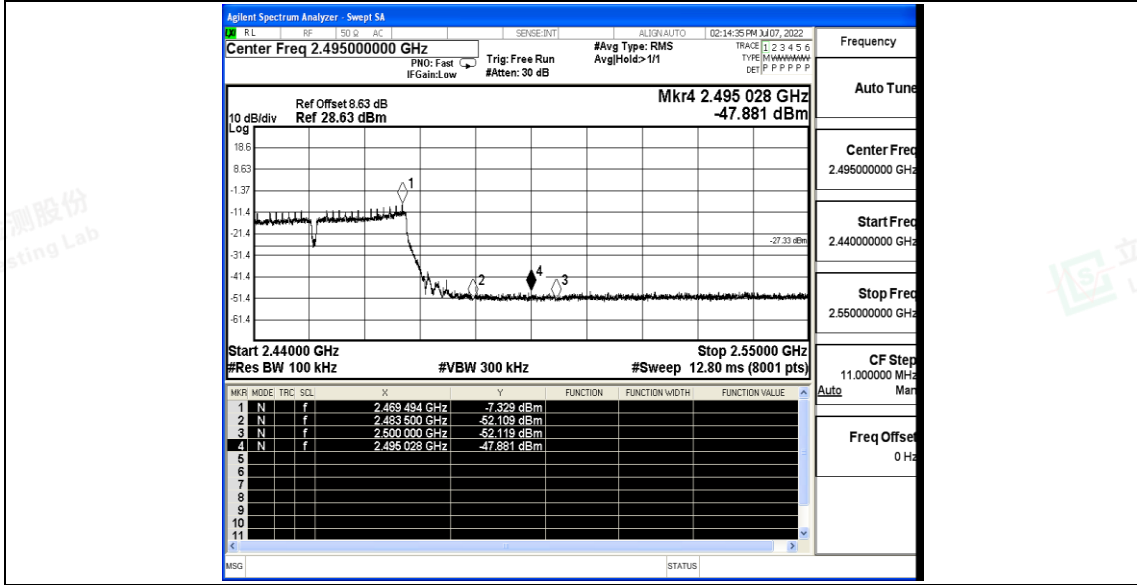


11N40SISO_Ant_Low_2422





11N40SISO_Ant_High_2452





C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	3.70	3.70	---	PASS
			30~1000	3.70	-53.92	≤-16.3	PASS
			1000~26500	3.70	-46.15	≤-16.3	PASS
		2437	Reference	4.65	4.65	---	PASS
			30~1000	4.65	-52.33	≤-15.35	PASS
			1000~26500	4.65	-44.75	≤-15.35	PASS
		2462	Reference	4.61	4.61	---	PASS
			30~1000	4.61	-52.94	≤-15.39	PASS
			1000~26500	4.61	-46.34	≤-15.39	PASS
11G	Ant	2412	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-52.6	≤-21.16	PASS
			1000~26500	-1.16	-45.94	≤-21.16	PASS
		2437	Reference	-2.87	-2.87	---	PASS
			30~1000	-2.87	-53.32	≤-22.87	PASS
			1000~26500	-2.87	-45.65	≤-22.87	PASS
		2462	Reference	-3.16	-3.16	---	PASS
			30~1000	-3.16	-52.77	≤-23.16	PASS
			1000~26500	-3.16	-45.51	≤-23.16	PASS
11N20SISO	Ant	2412	Reference	-2.16	-2.16	---	PASS
			30~1000	-2.16	-54.94	≤-22.16	PASS
			1000~26500	-2.16	-45.97	≤-22.16	PASS
		2437	Reference	-4.67	-4.67	---	PASS
			30~1000	-4.67	-53.99	≤-24.67	PASS
			1000~26500	-4.67	-46.33	≤-24.67	PASS
		2462	Reference	-3.86	-3.86	---	PASS
			30~1000	-3.86	-54.52	≤-23.86	PASS
			1000~26500	-3.86	-45.54	≤-23.86	PASS
11N40SISO	Ant	2422	Reference	-5.52	-5.52	---	PASS
			30~1000	-5.52	-54.28	≤-25.52	PASS
			1000~26500	-5.52	-45.75	≤-25.52	PASS
		2437	Reference	-5.16	-5.16	---	PASS
			30~1000	-5.16	-54.17	≤-25.16	PASS
			1000~26500	-5.16	-45.64	≤-25.16	PASS
		2452	Reference	-7.65	-7.65	---	PASS
			30~1000	-7.65	-54.28	≤-27.65	PASS





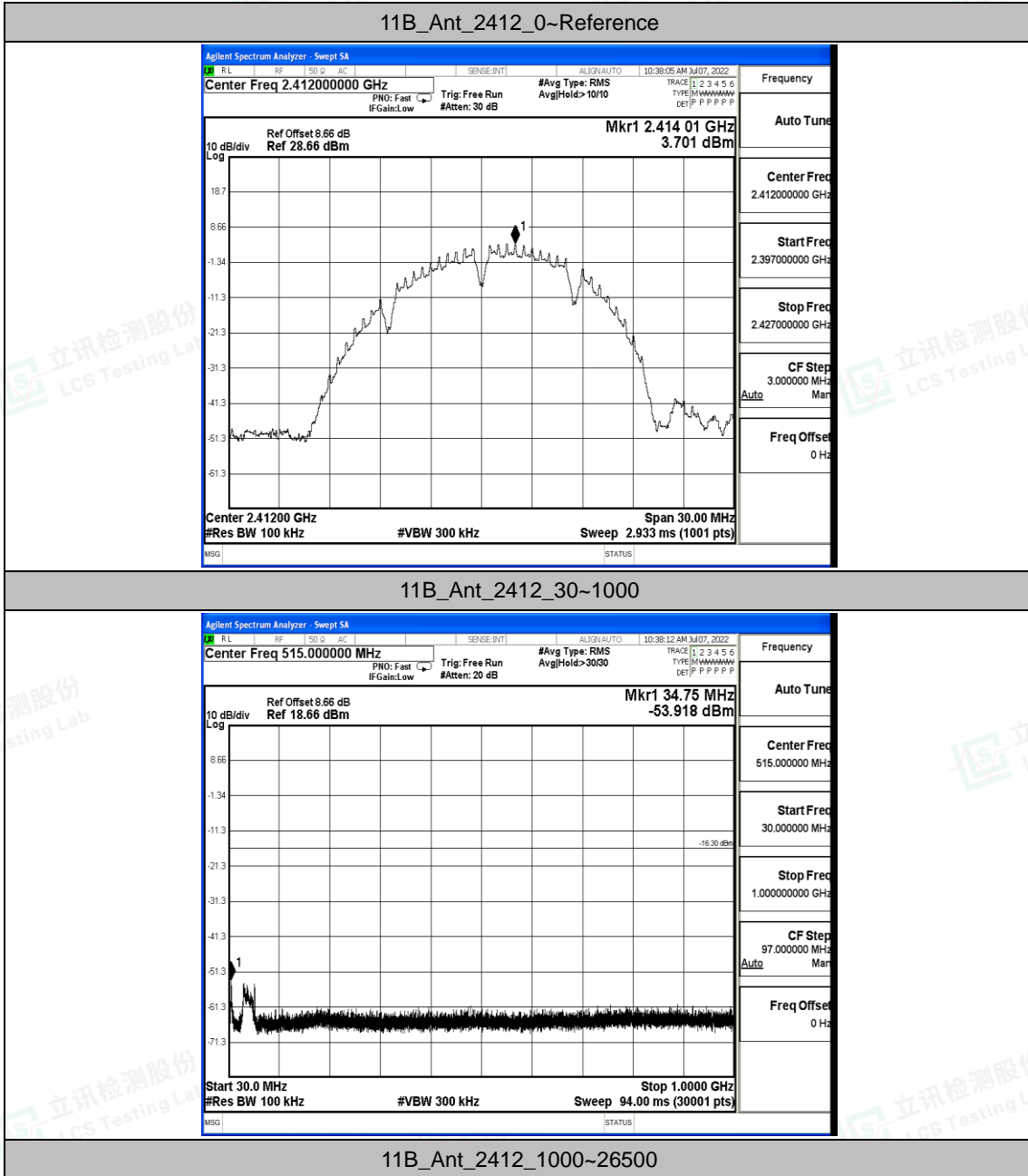
			1000~26500	-7.65	-46.17	≤-27.65	PASS
--	--	--	------------	-------	--------	---------	------

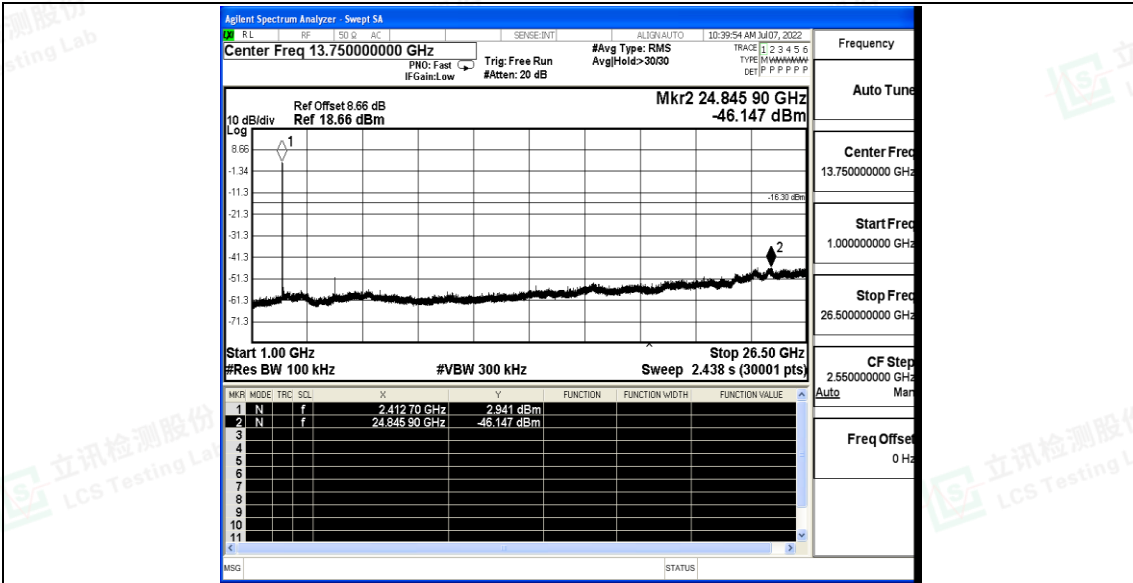


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

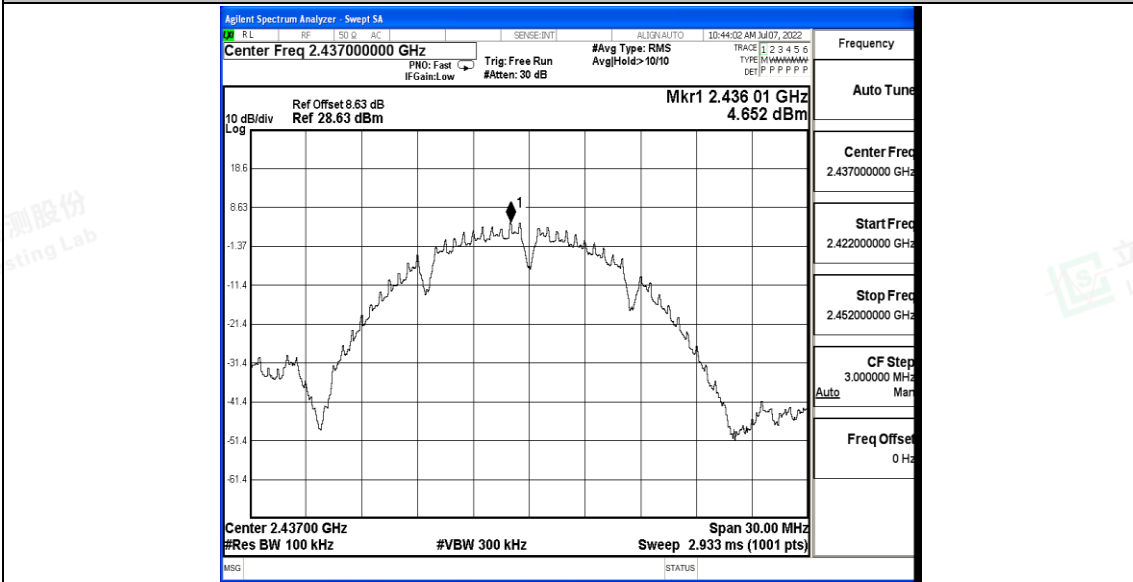


Test Graphs



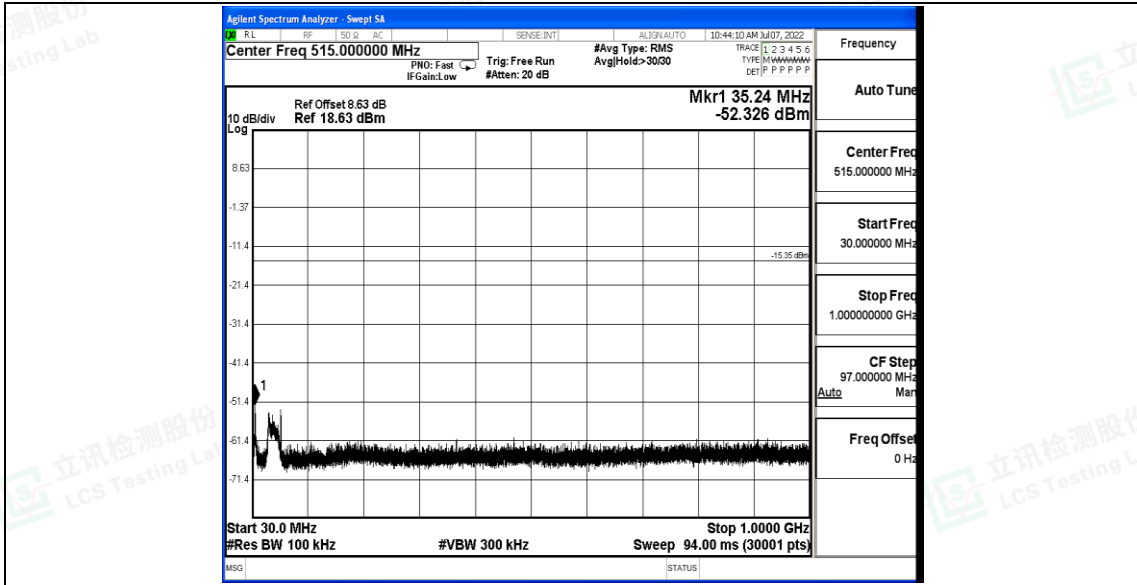


11B_Ant_2437_0~Reference

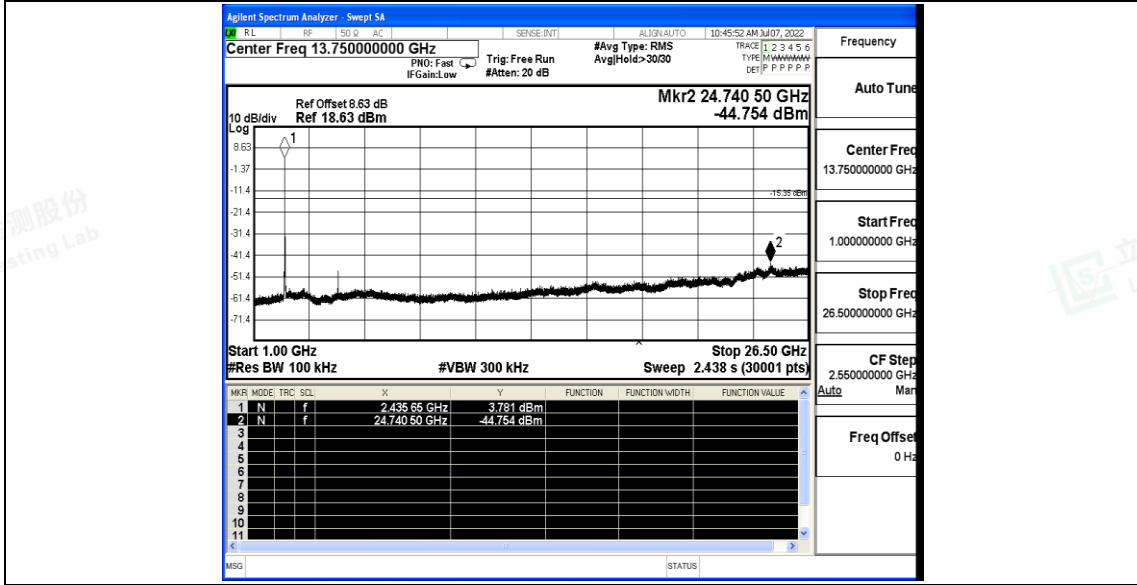


11B_Ant_2437_30~1000



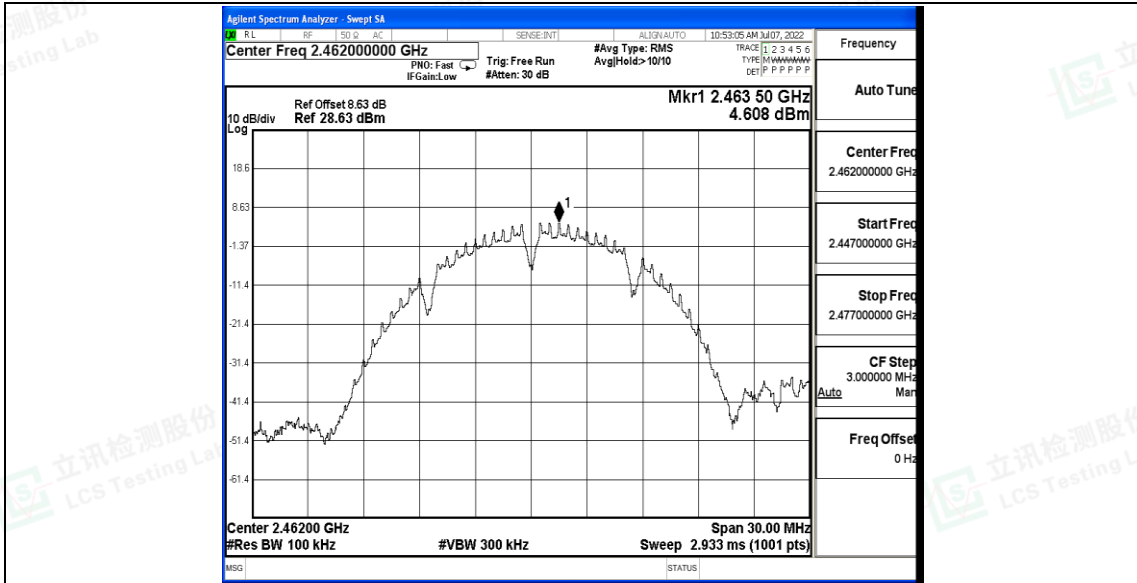


11B_Ant_2437_1000~26500

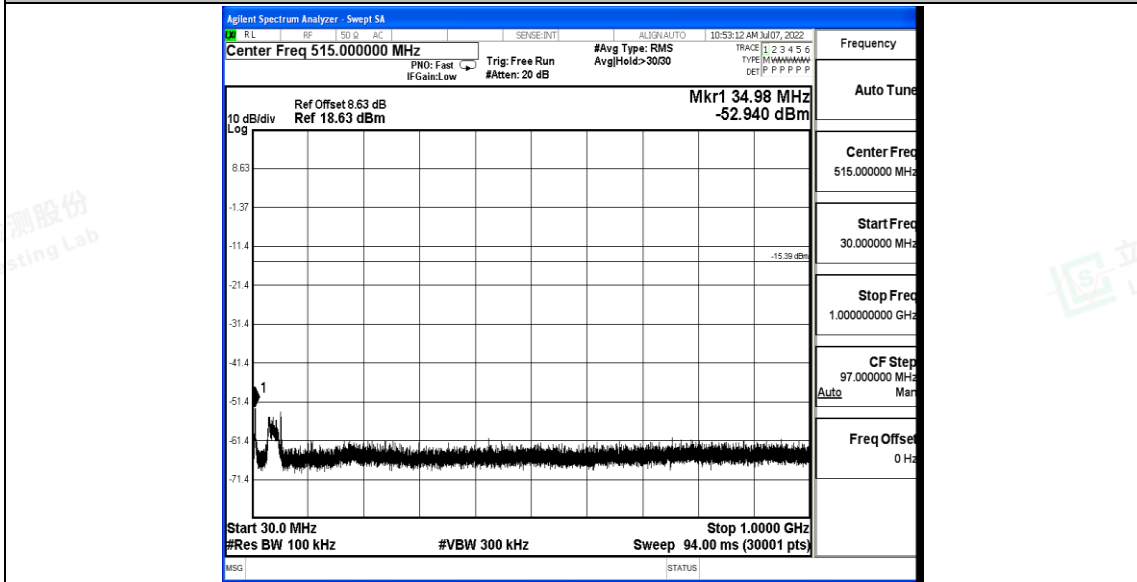


11B_Ant_2462_0~Reference



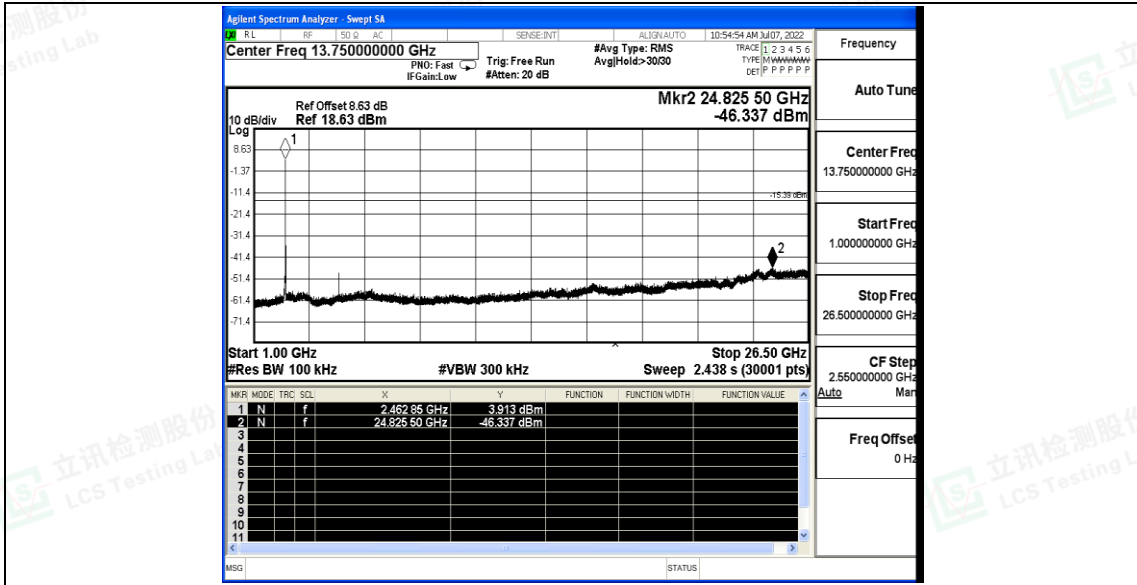


11B_Ant_2462_30~1000

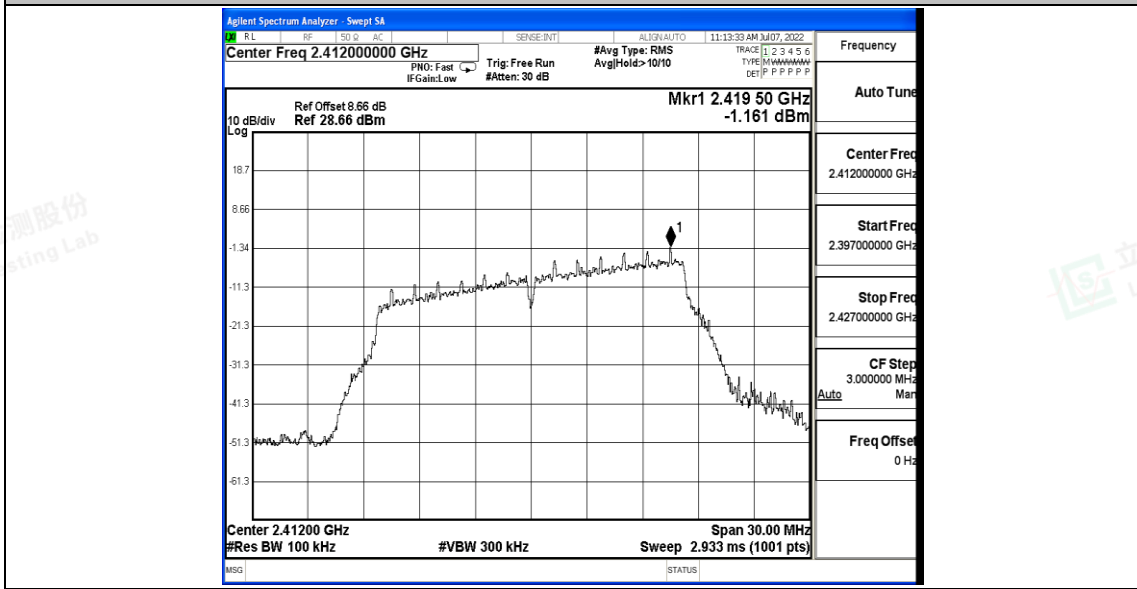


11B_Ant_2462_1000~26500



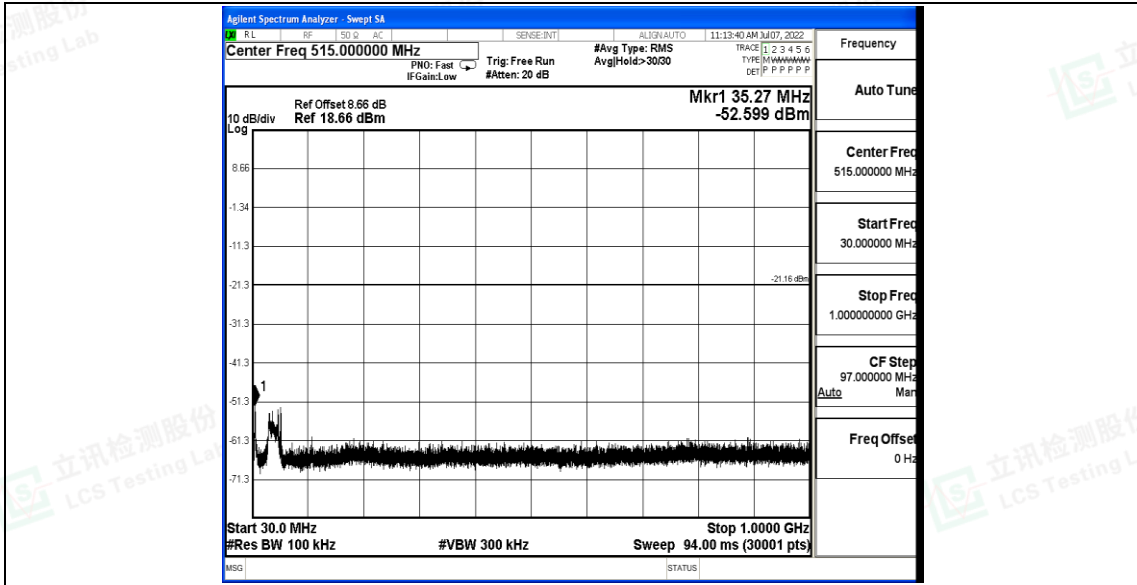


11G_Ant_2412_0~Reference

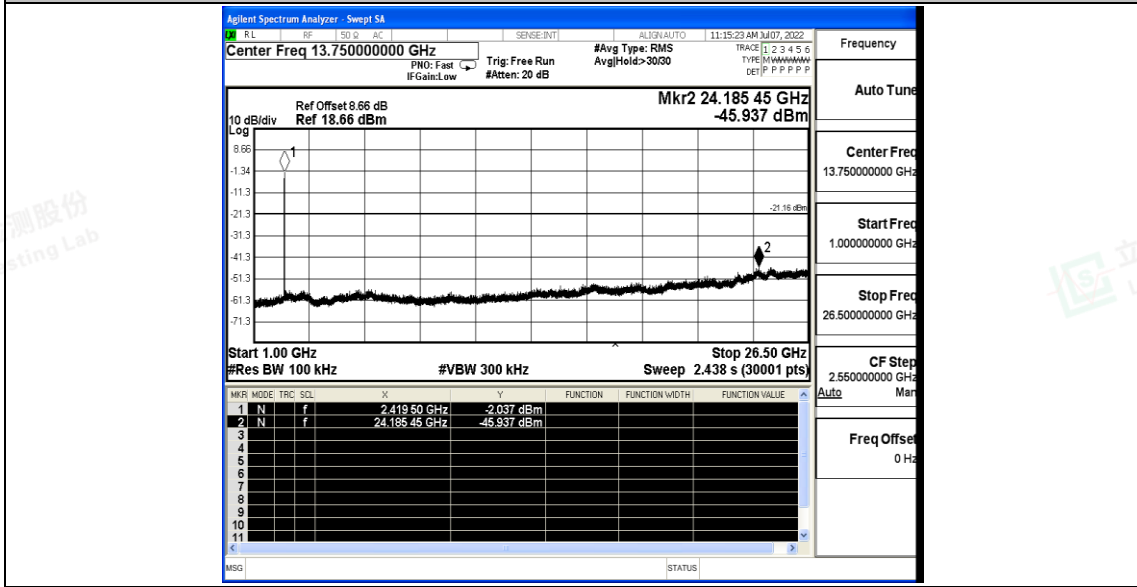


11G_Ant_2412_30~1000



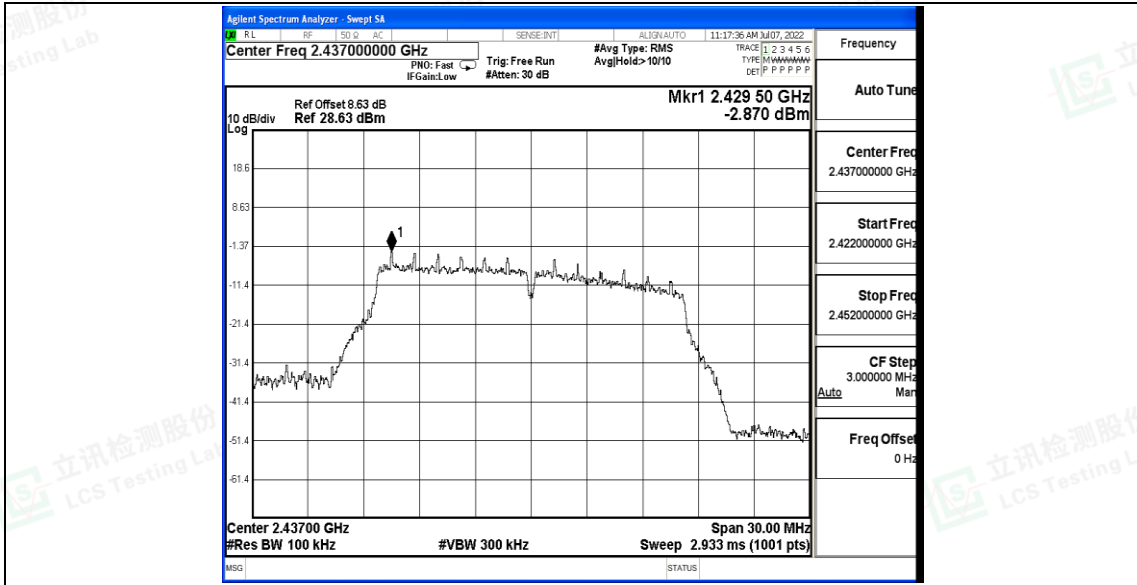


11G_Ant_2412_1000~26500

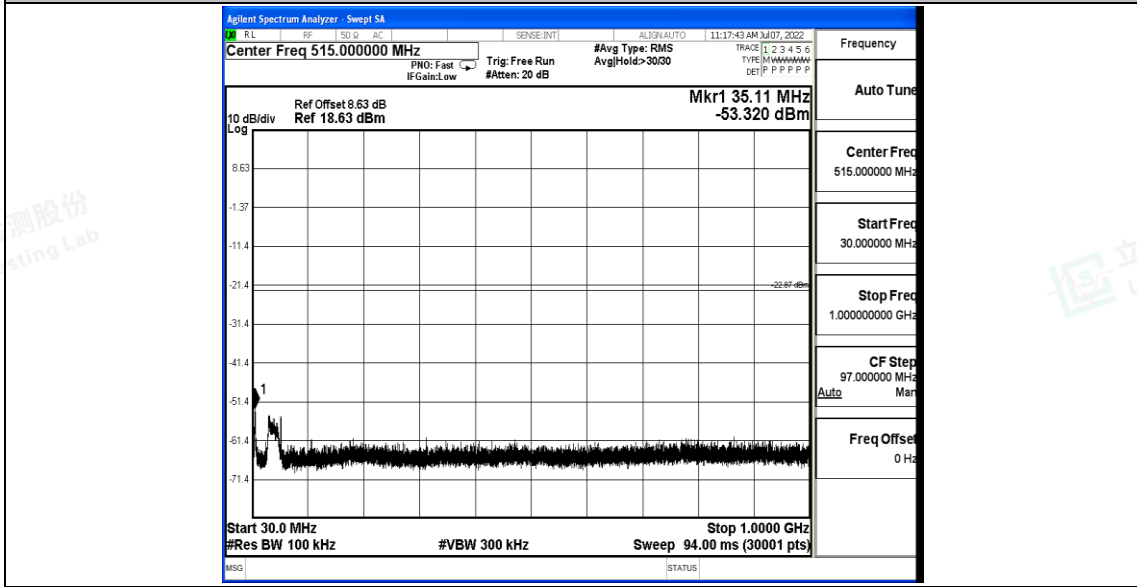


11G_Ant_2437_0~Reference



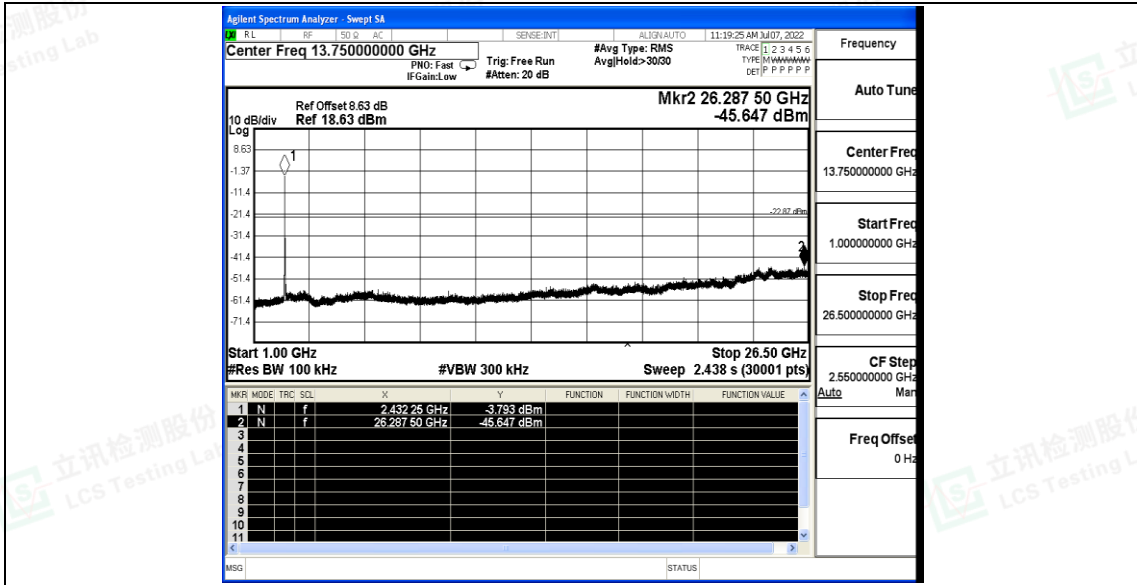


11G_Ant_2437_30~1000

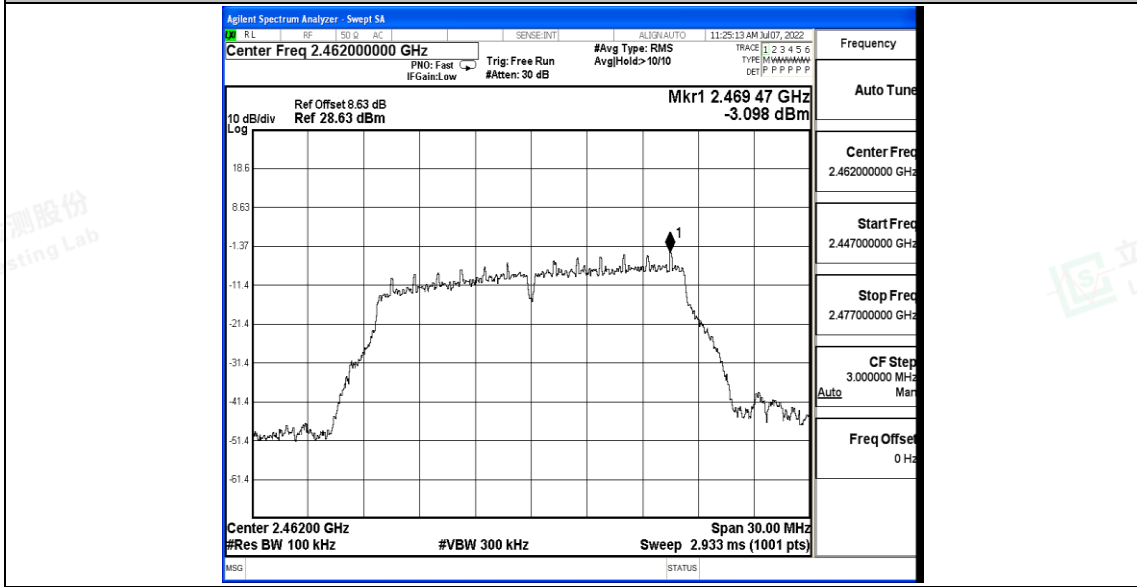


11G_Ant_2437_1000~26500



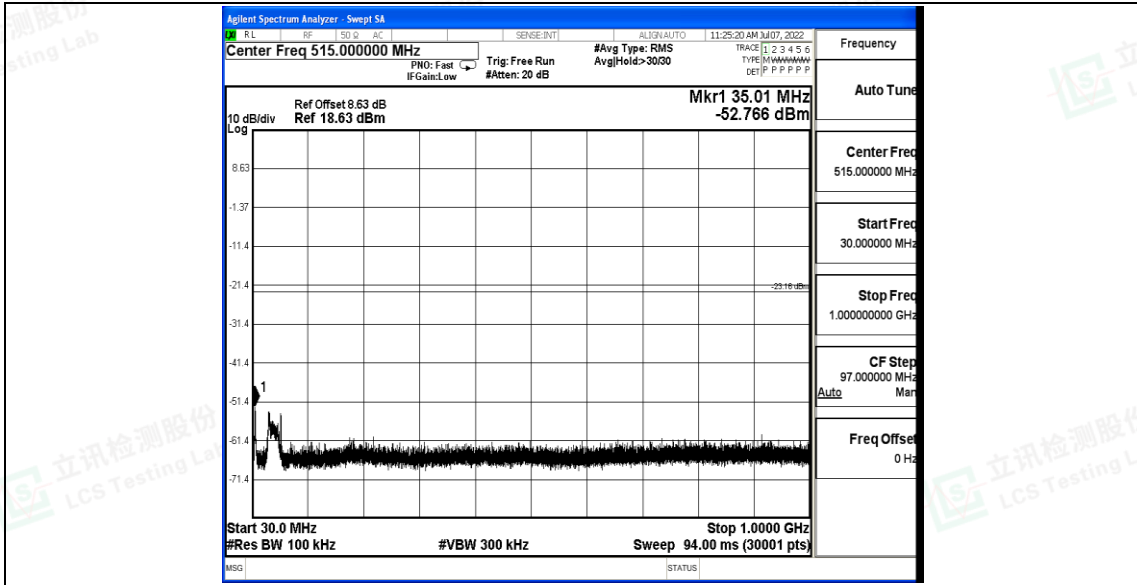


11G_Ant_2462_0~Reference

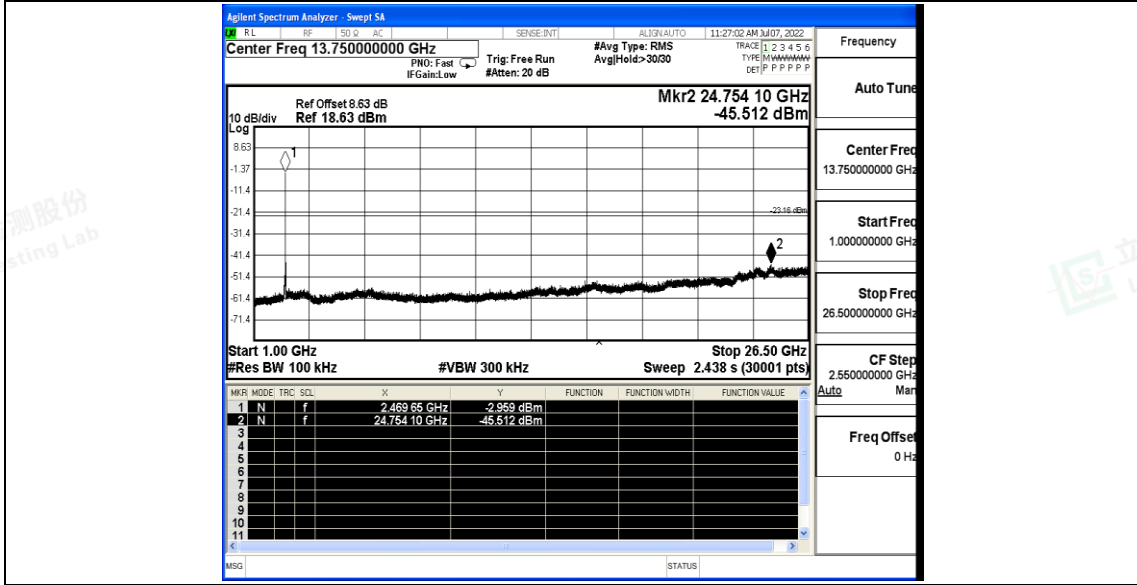


11G_Ant_2462_30~1000



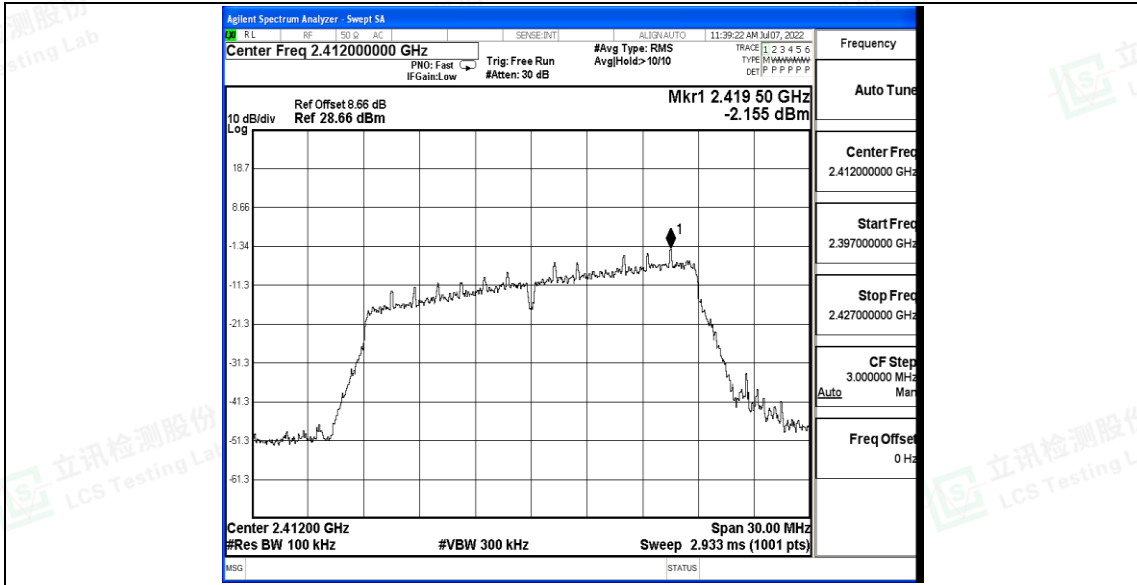


11G_Ant_2462_1000-26500

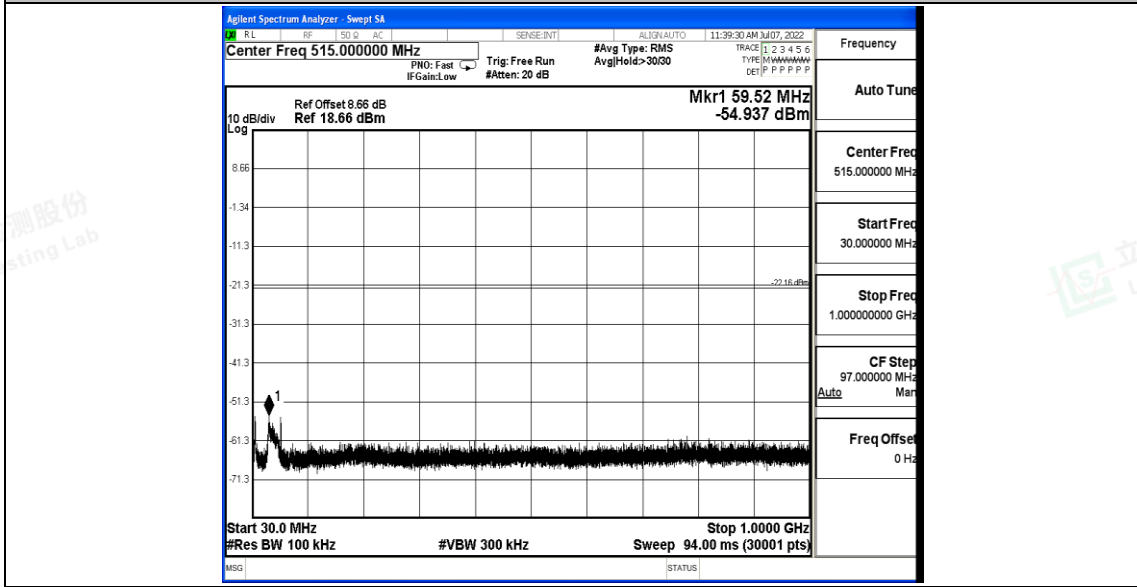


11N20SISO_Ant_2412_0-Reference



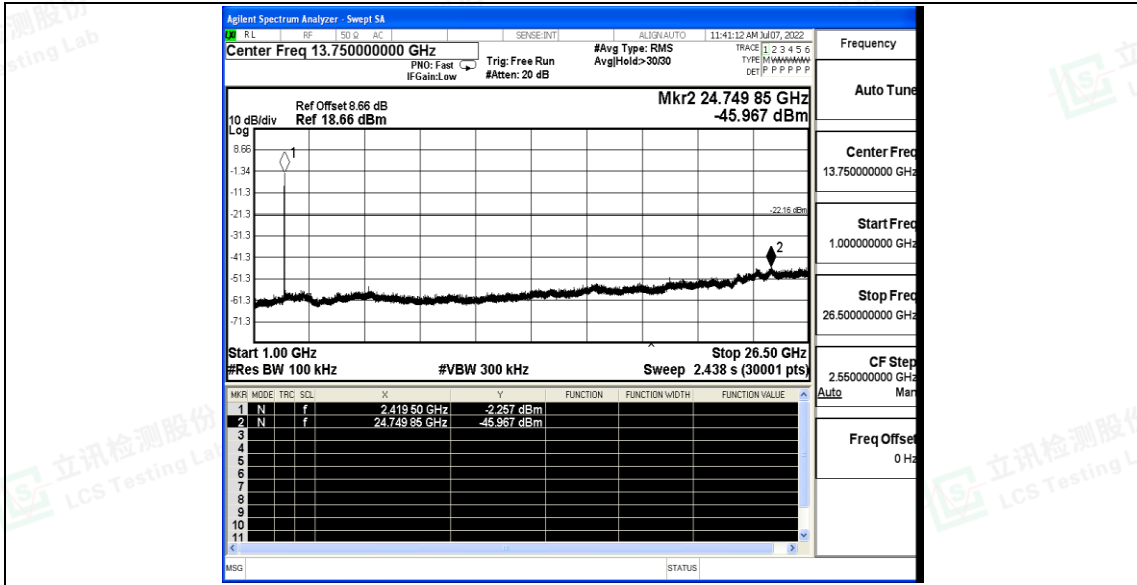


11N20SISO_Ant_2412_30~1000

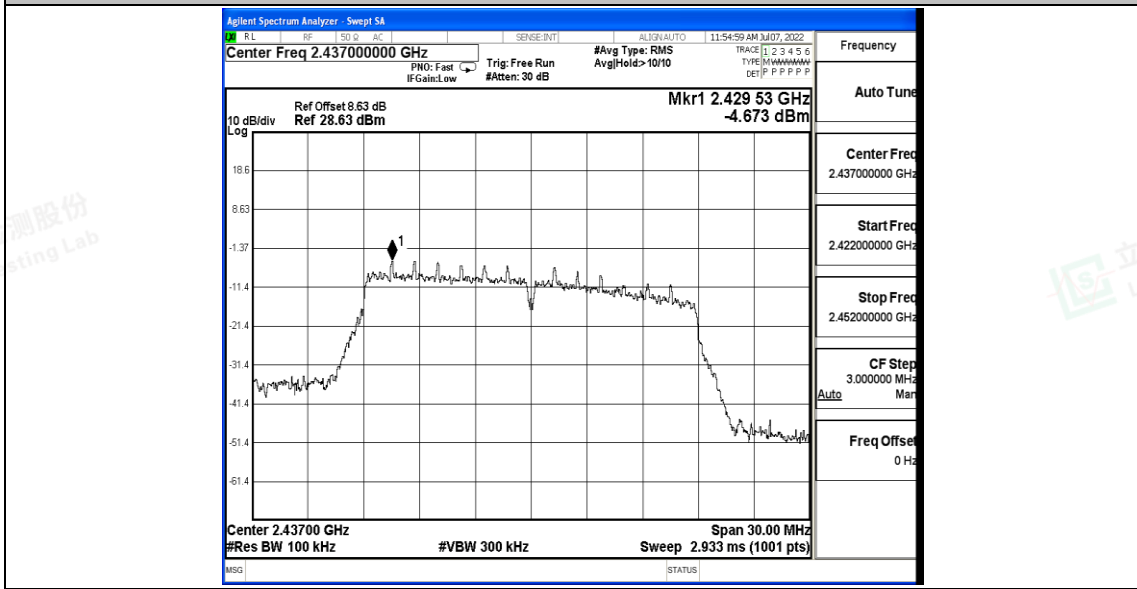


11N20SISO_Ant_2412_1000~26500



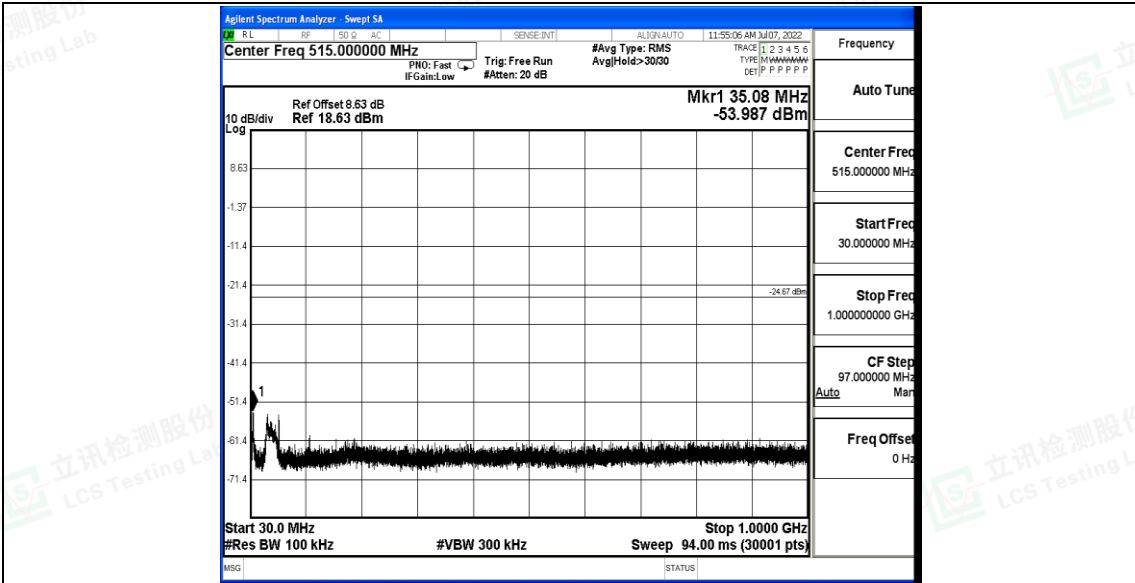


11N20SISO_Ant_2437_0-Reference

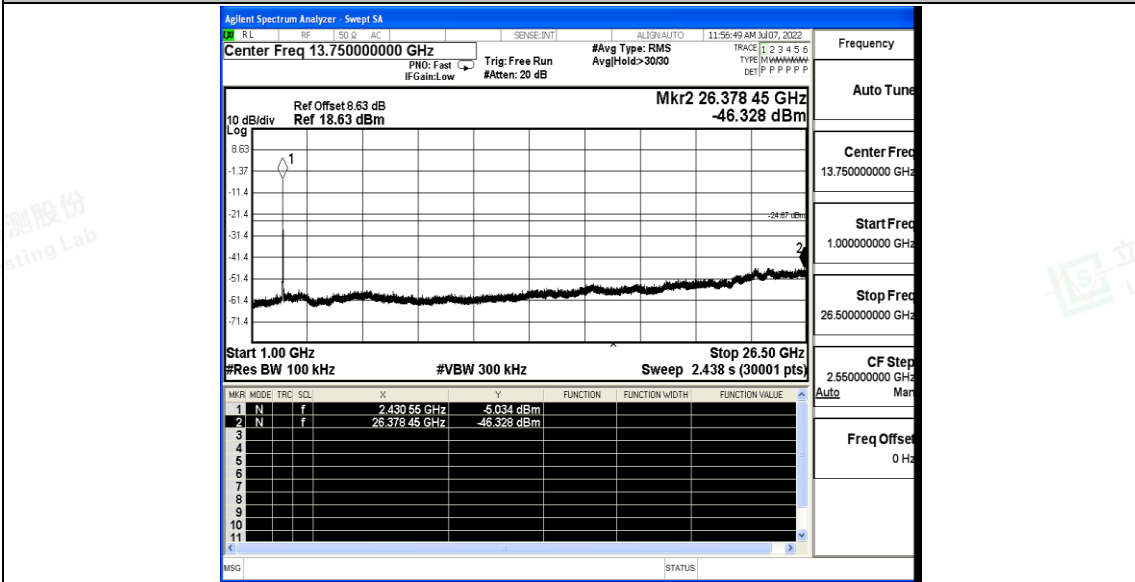


11N20SISO_Ant_2437_30~1000



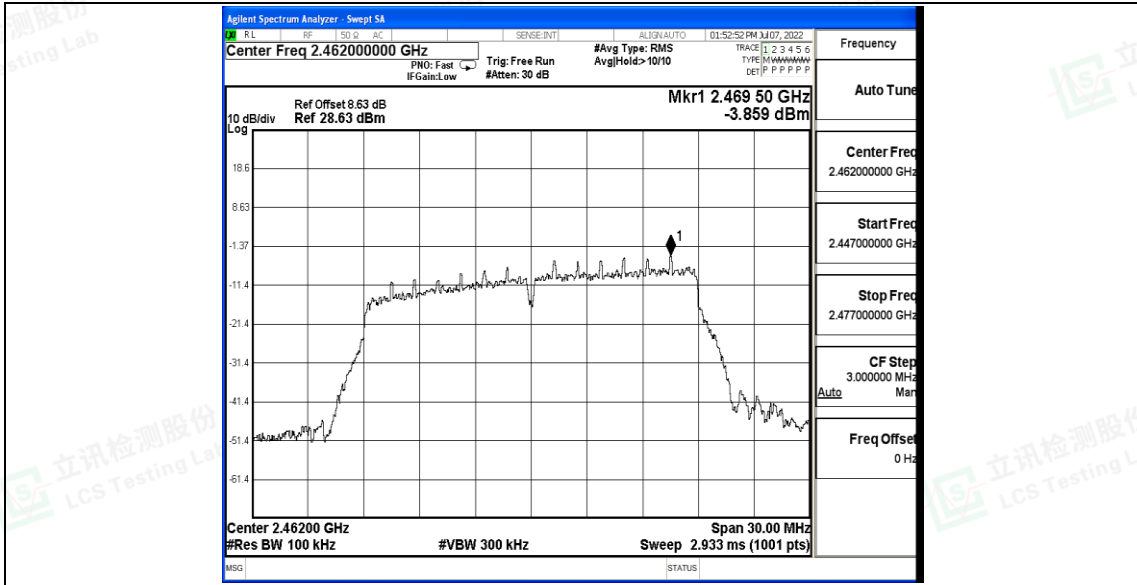


11N20SISO_Ant_2437_1000~26500

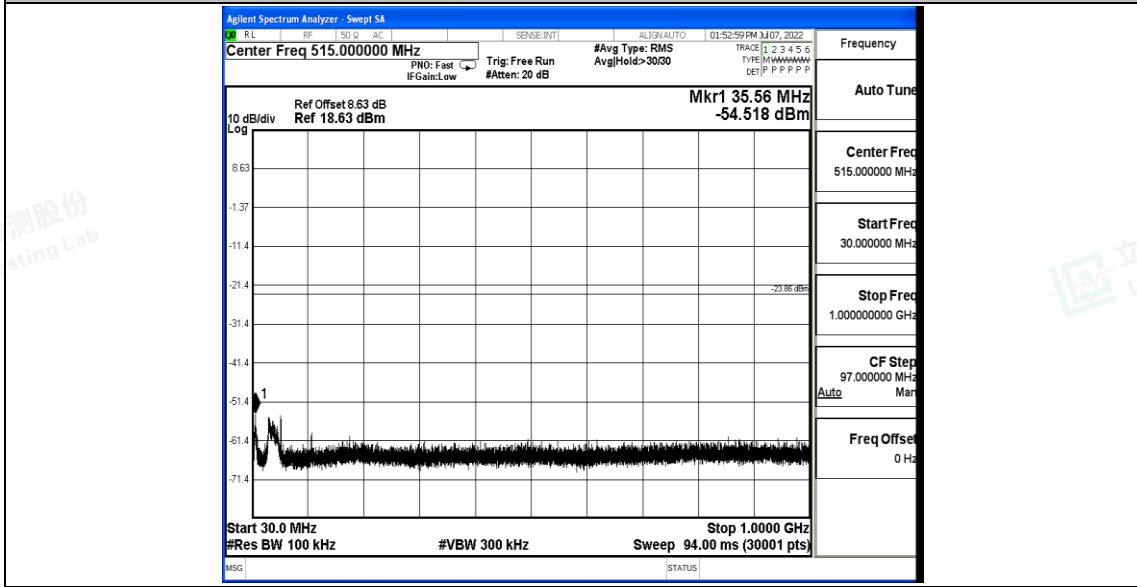


11N20SISO_Ant_2462_0~Reference



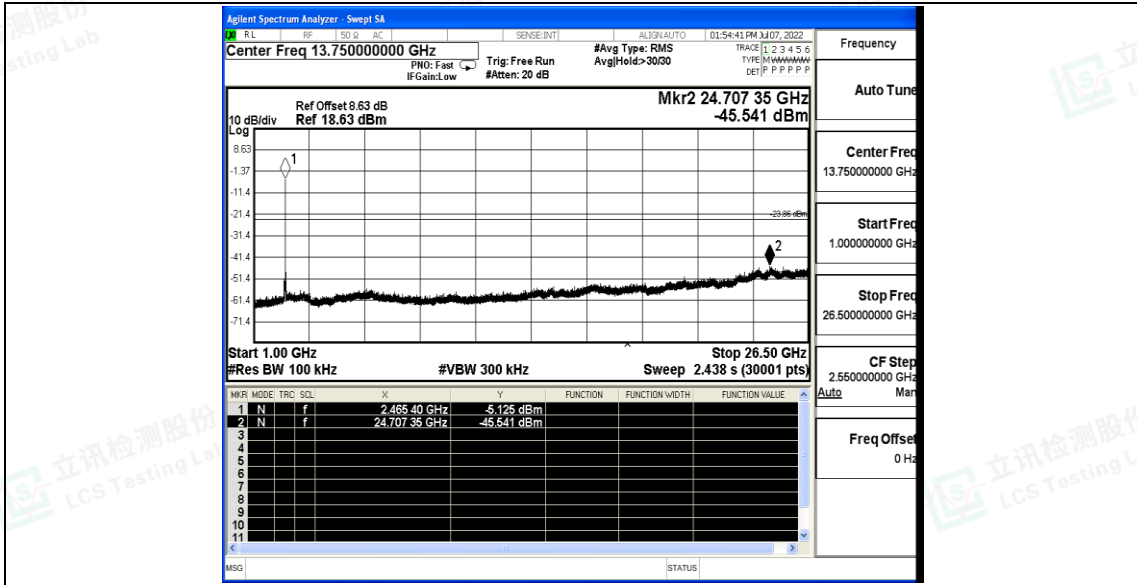


11N20SISO_Ant_2462_30~1000

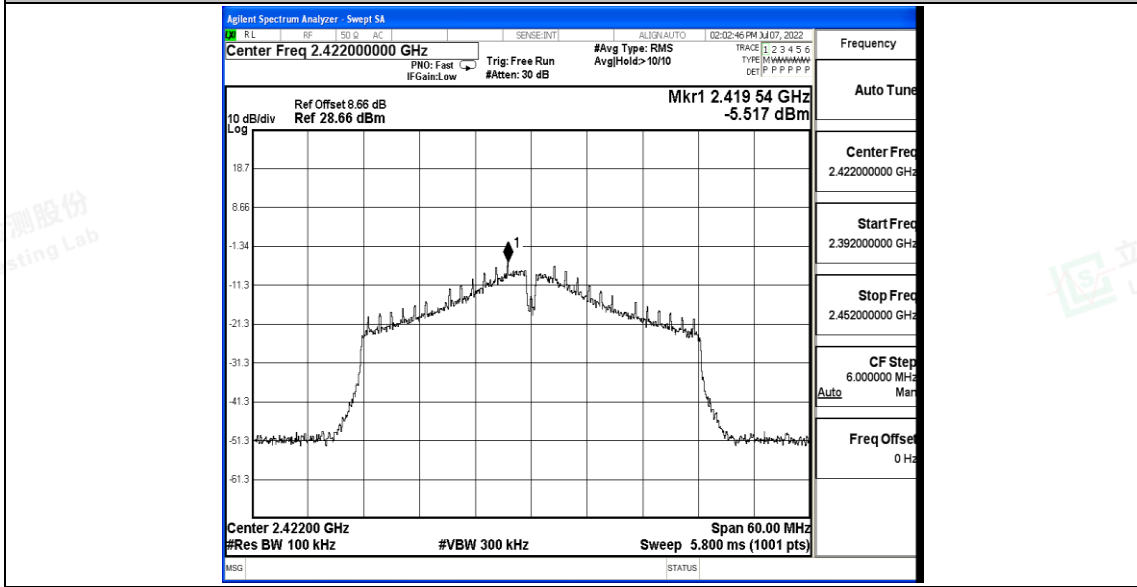


11N20SISO_Ant_2462_1000~26500



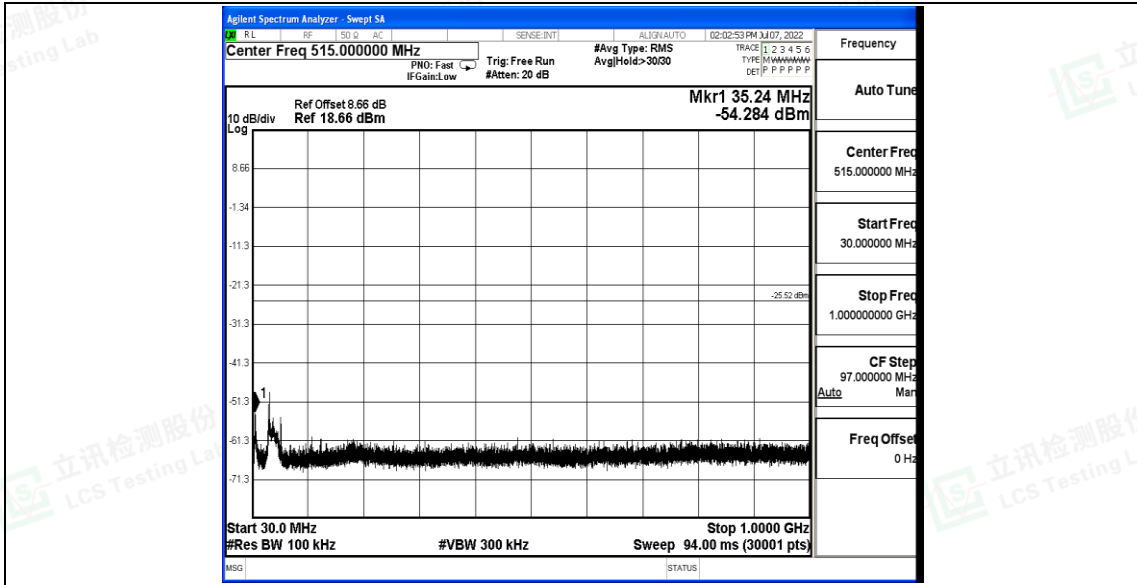


11N40SISO_Ant_2422_0-Reference

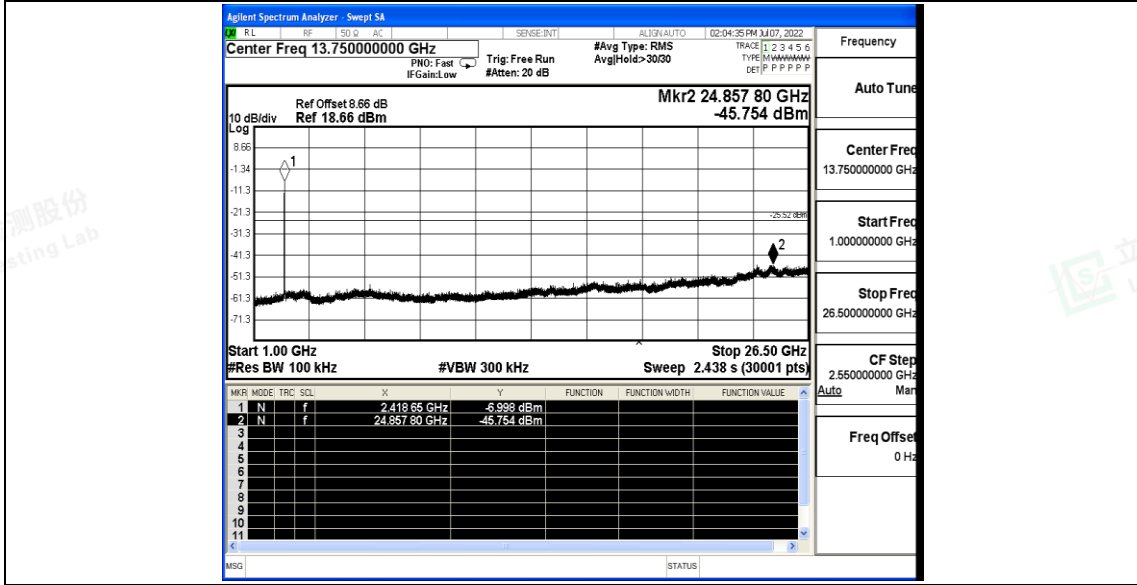


11N40SISO_Ant_2422_30~1000



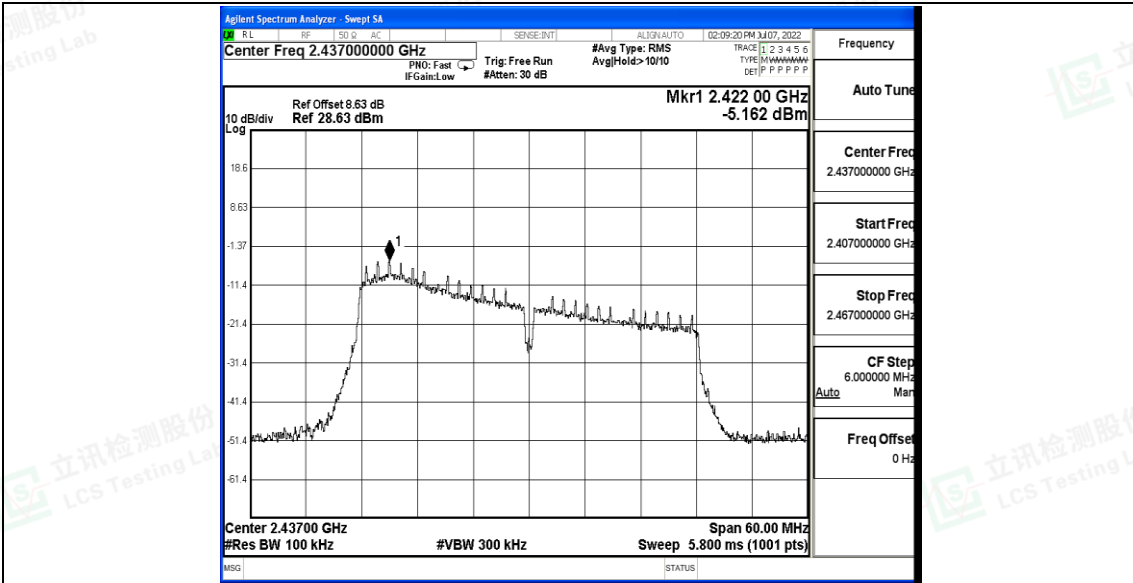


11N40SISO_Ant_2422_1000~26500

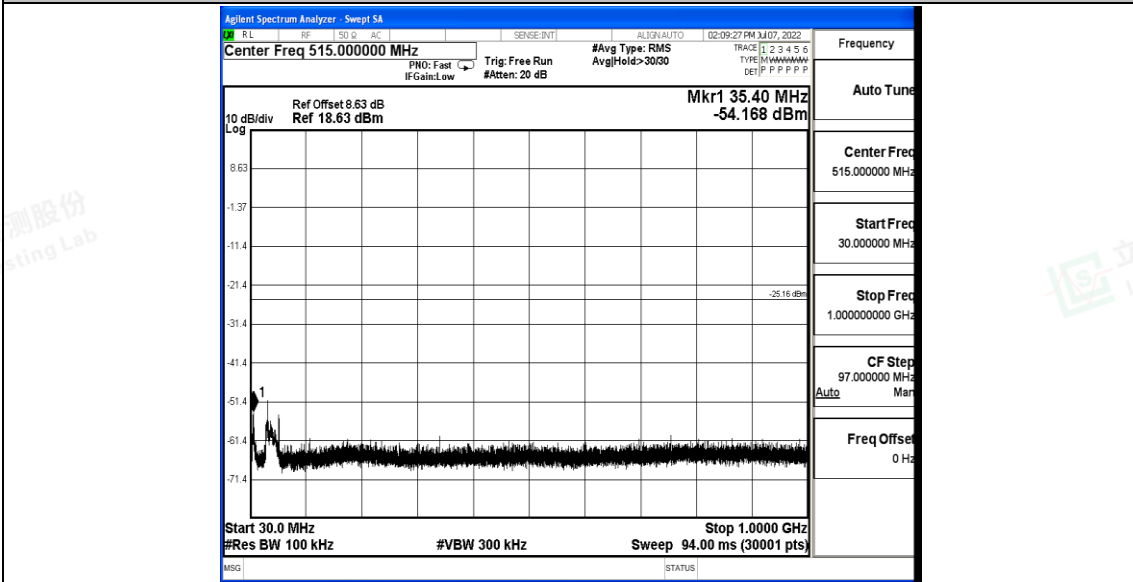


11N40SISO_Ant_2437_0~Reference





11N40SISO_Ant_2437_30~1000



11N40SISO_Ant_2437_1000~26500

