



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Display frame

Test Model: US-65550

Environmental Conditions

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





B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.560	2407.440	2417.000	0.5	PASS
		2437	9.960	2432.000	2441.960	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.840	2404.080	2439.920	0.5	PASS
		2437	36.080	2418.840	2454.920	0.5	PASS
		2452	35.120	2434.400	2469.520	0.5	PASS



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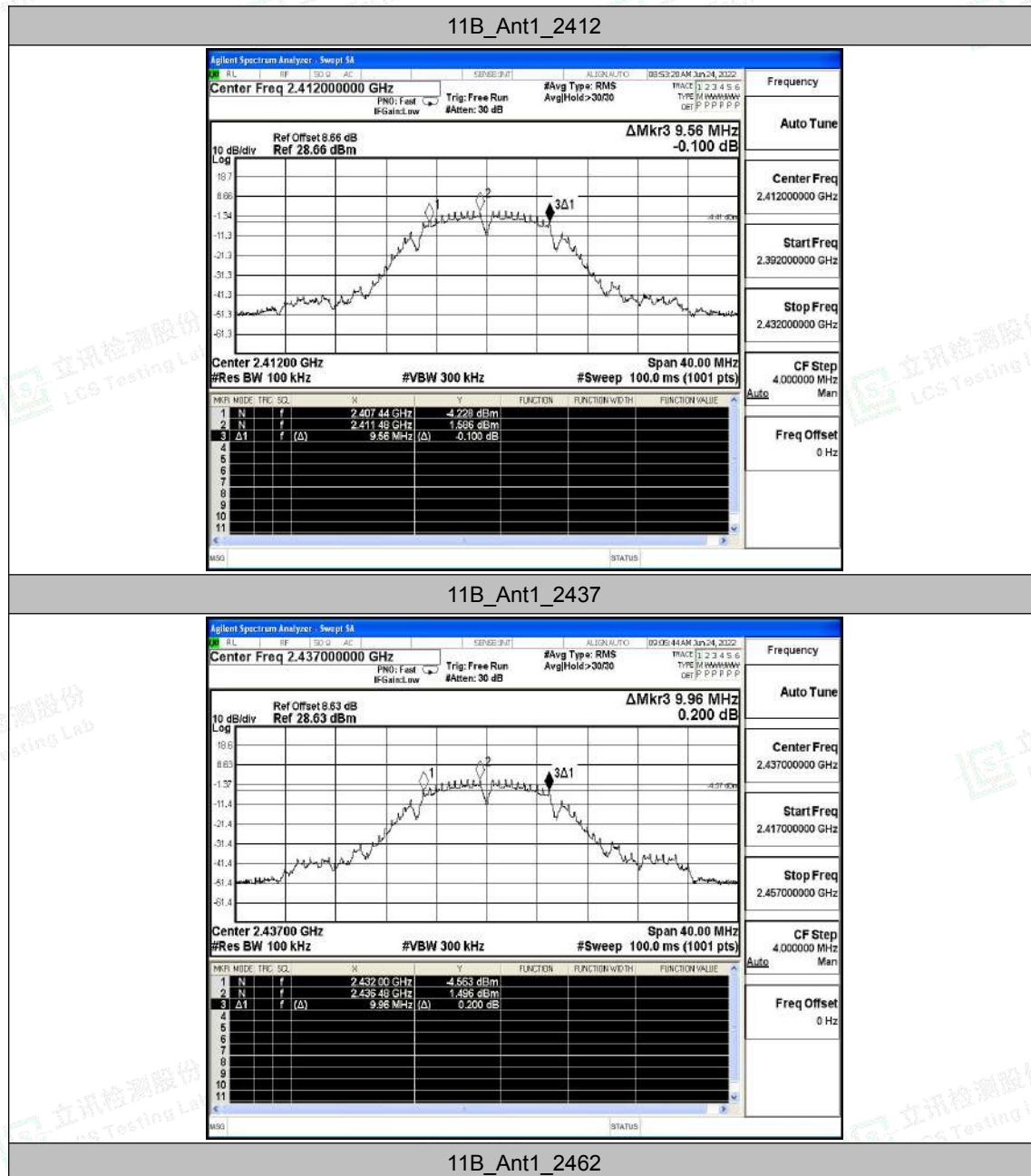
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Test Graphs

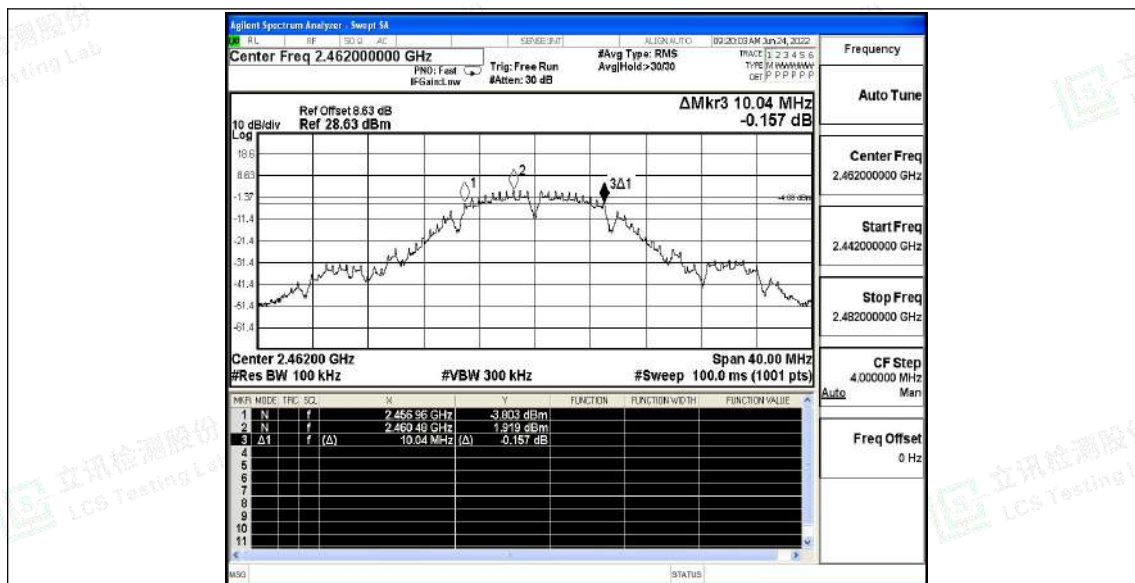


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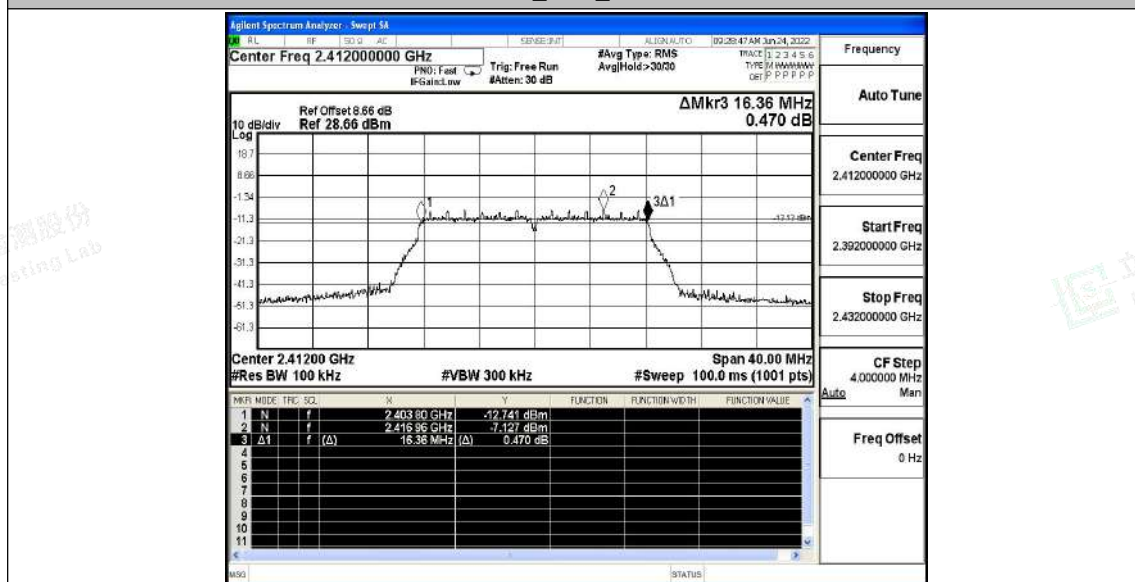
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11G_Ant1_2412



11G_Ant1_2437

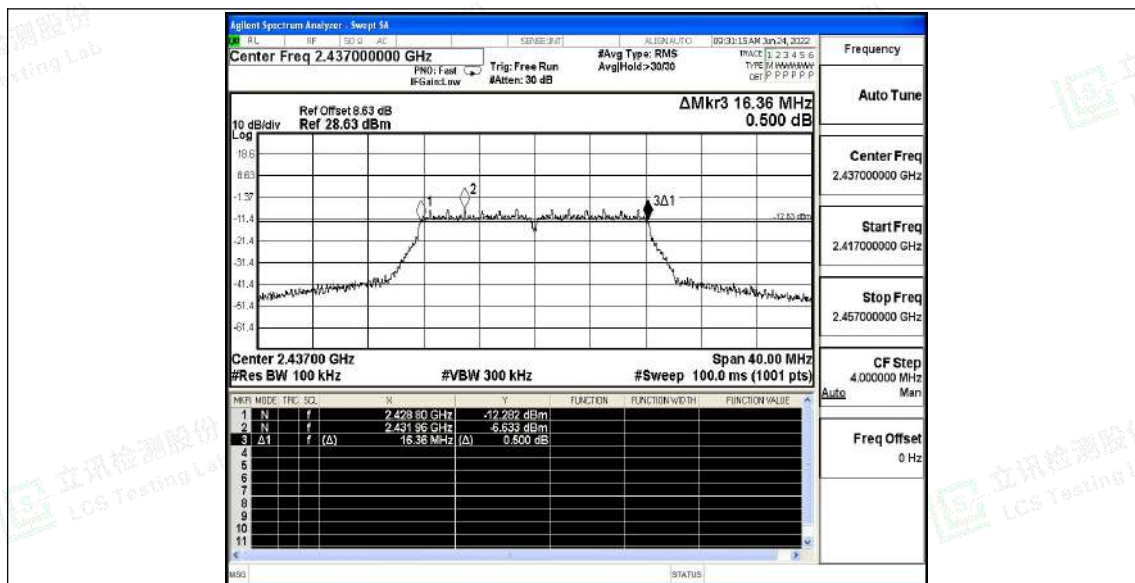


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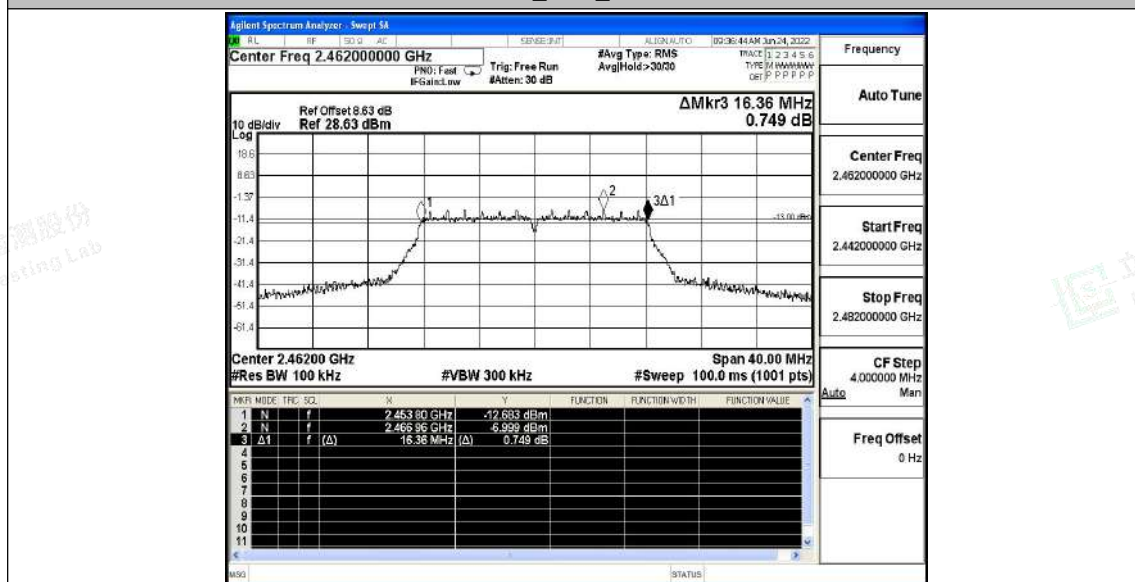
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11G_Ant1_2462



11N20SISO_Ant1_2412

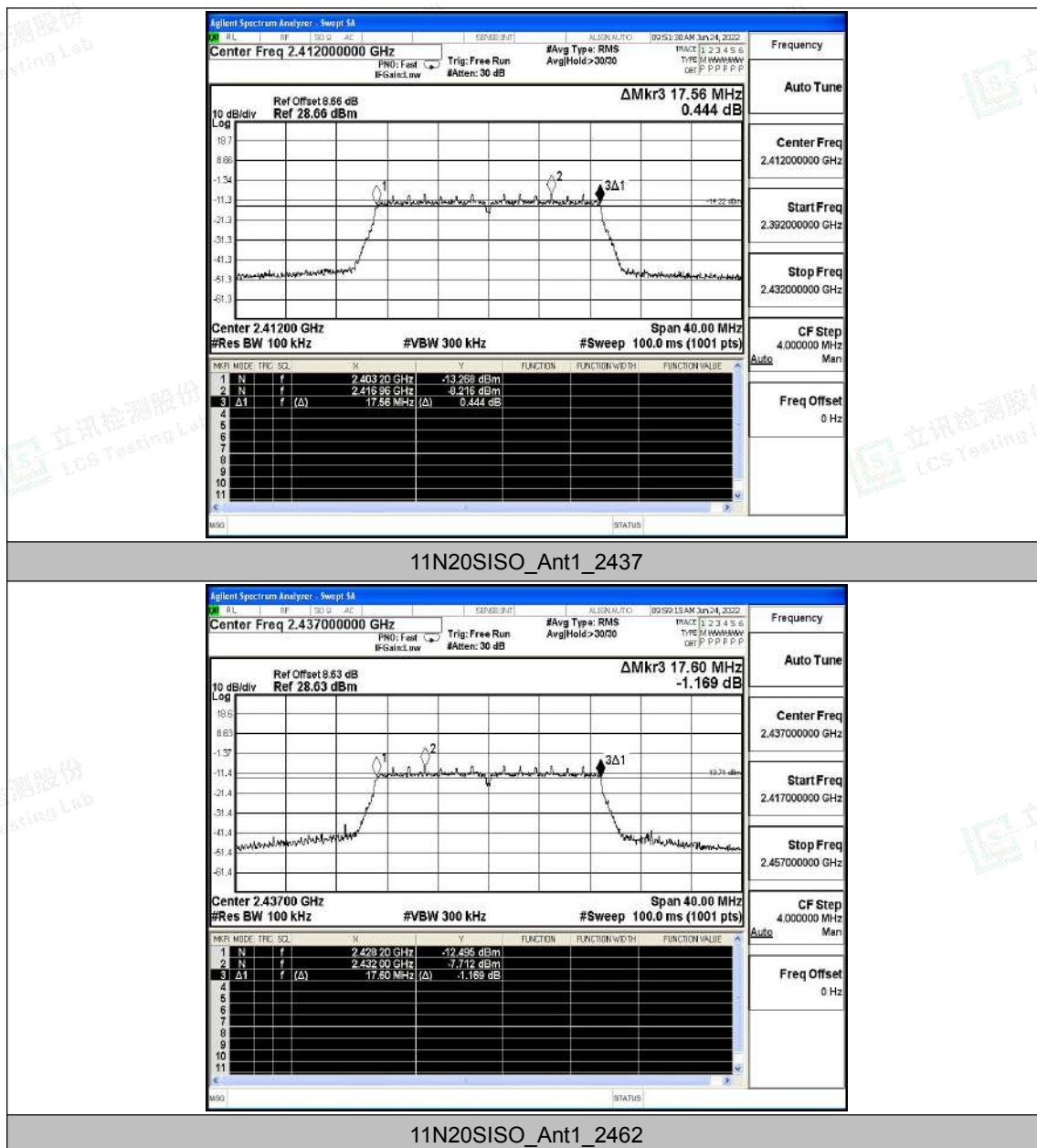


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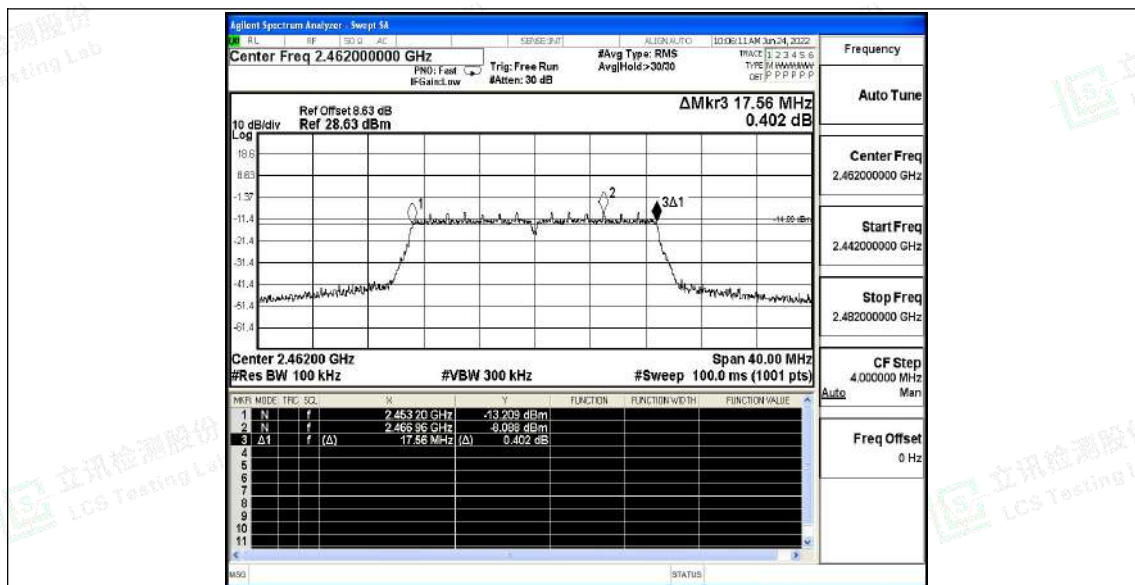


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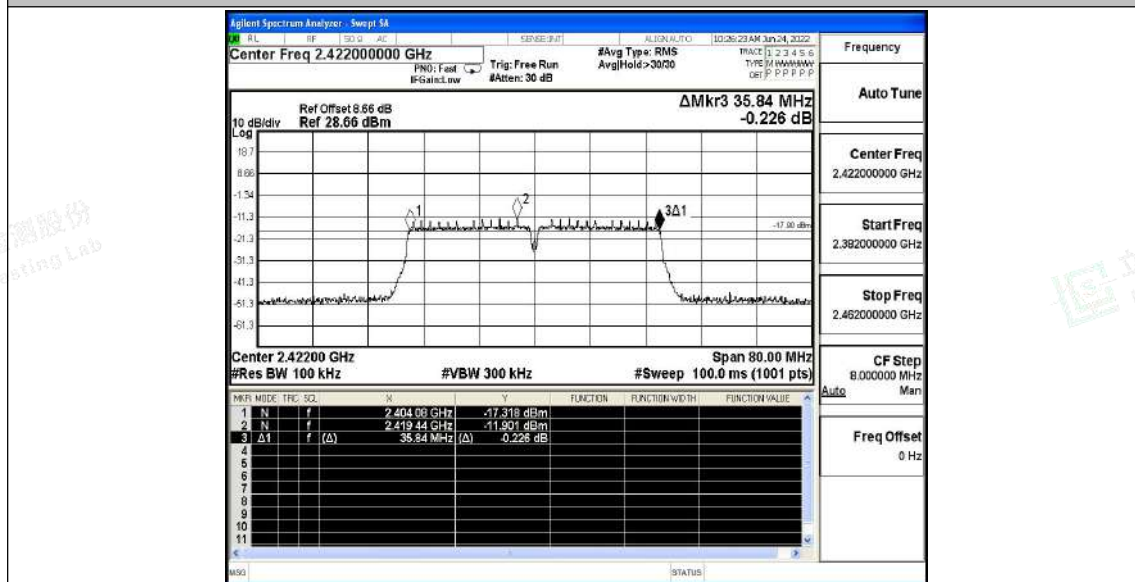
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

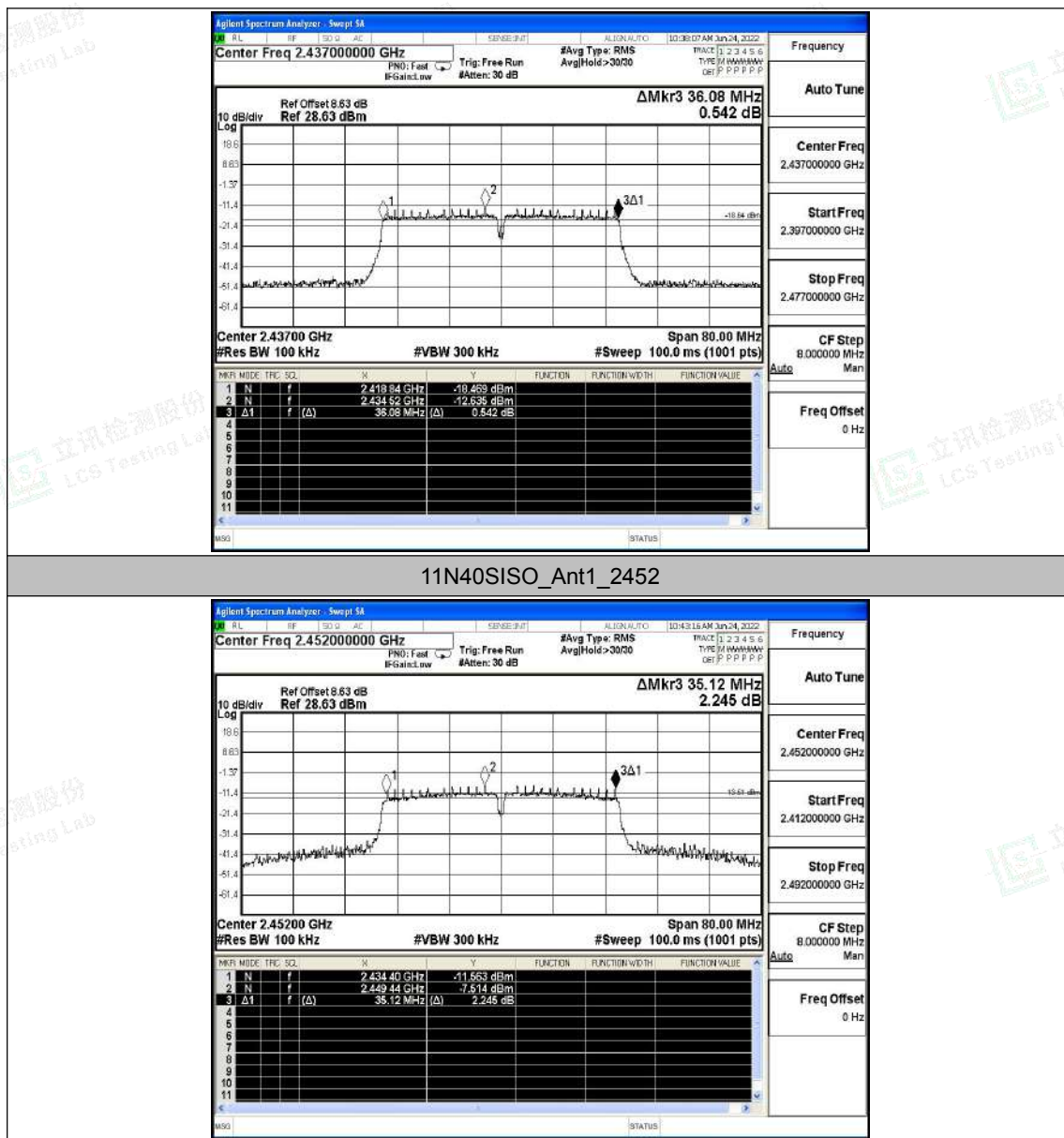


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B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	13.08	≤30.00	PASS
		2437	12.94	≤30.00	PASS
		2462	13.64	≤30.00	PASS
11G	Ant1	2412	12.35	≤30.00	PASS
		2437	12.67	≤30.00	PASS
		2462	12.41	≤30.00	PASS
11N20SISO	Ant1	2412	11.30	≤30.00	PASS
		2437	11.86	≤30.00	PASS
		2462	11.31	≤30.00	PASS
11N40SISO	Ant1	2422	10.36	≤30.00	PASS
		2437	9.74	≤30.00	PASS
		2452	10.72	≤30.00	PASS



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B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.58	≤8.00	PASS
		2437	-12.89	≤8.00	PASS
		2462	-10.24	≤8.00	PASS
11G	Ant1	2412	-21.73	≤8.00	PASS
		2437	-20.29	≤8.00	PASS
		2462	-21.61	≤8.00	PASS
11N20SISO	Ant1	2412	-22.37	≤8.00	PASS
		2437	-22.64	≤8.00	PASS
		2462	-22.29	≤8.00	PASS
11N40SISO	Ant1	2422	-26.32	≤8.00	PASS
		2437	-26.26	≤8.00	PASS
		2452	-26.5	≤8.00	PASS



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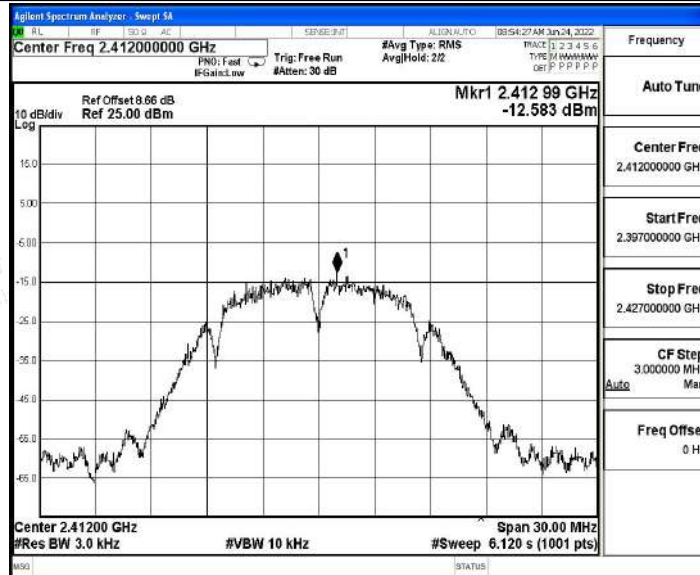
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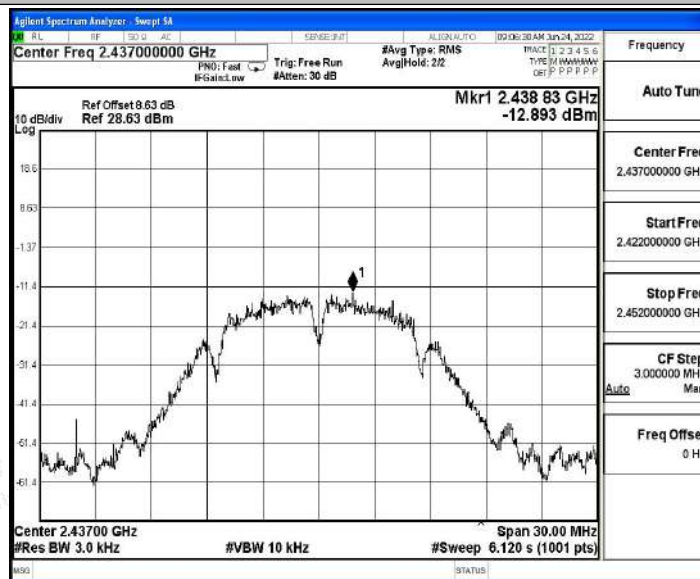


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

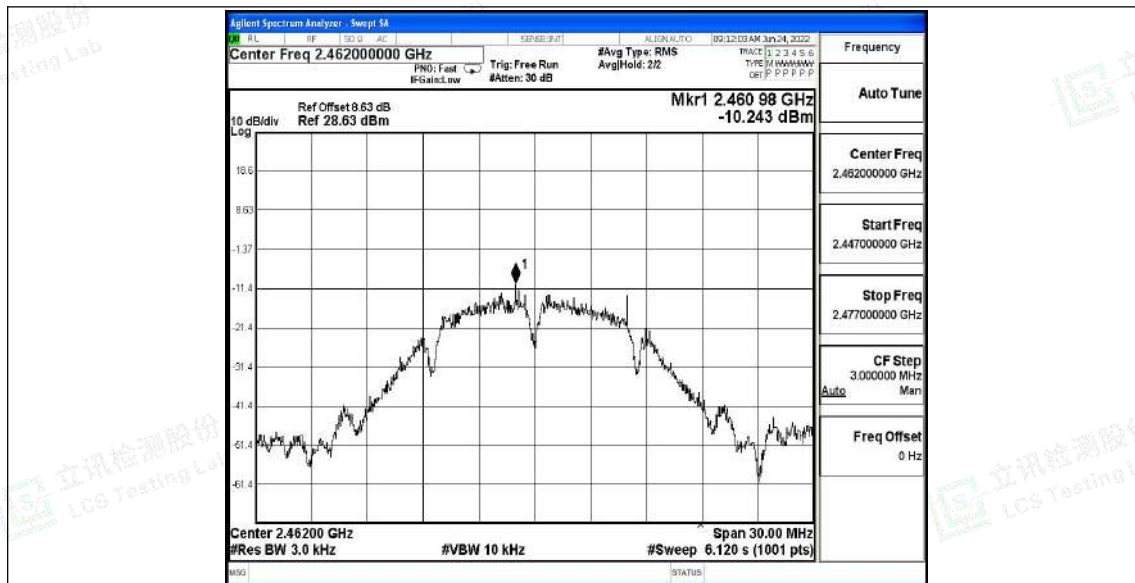


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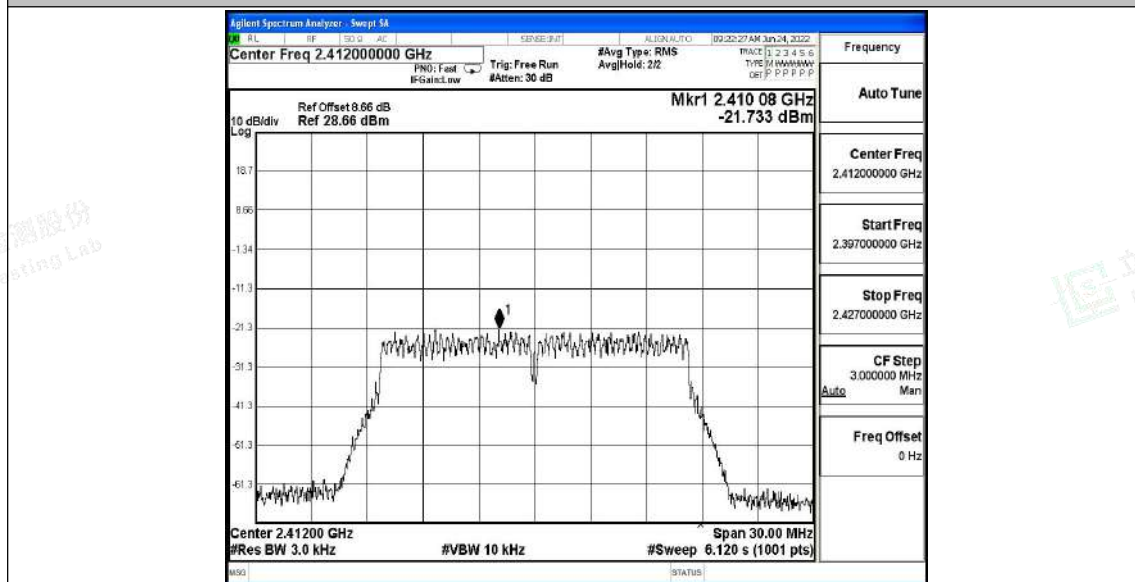
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11G_Ant1_2412



11G_Ant1_2437

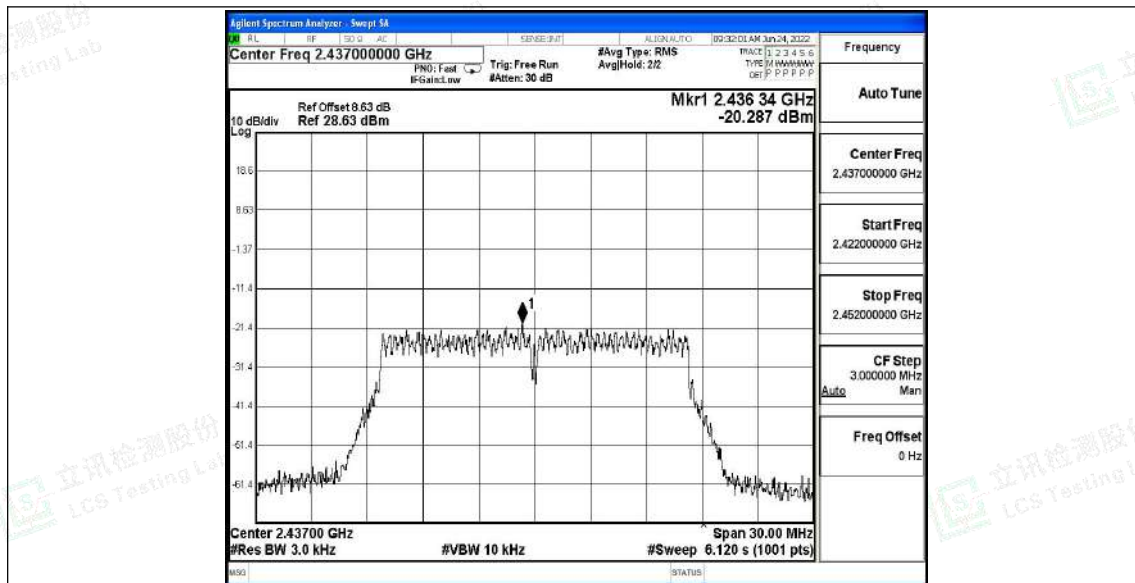


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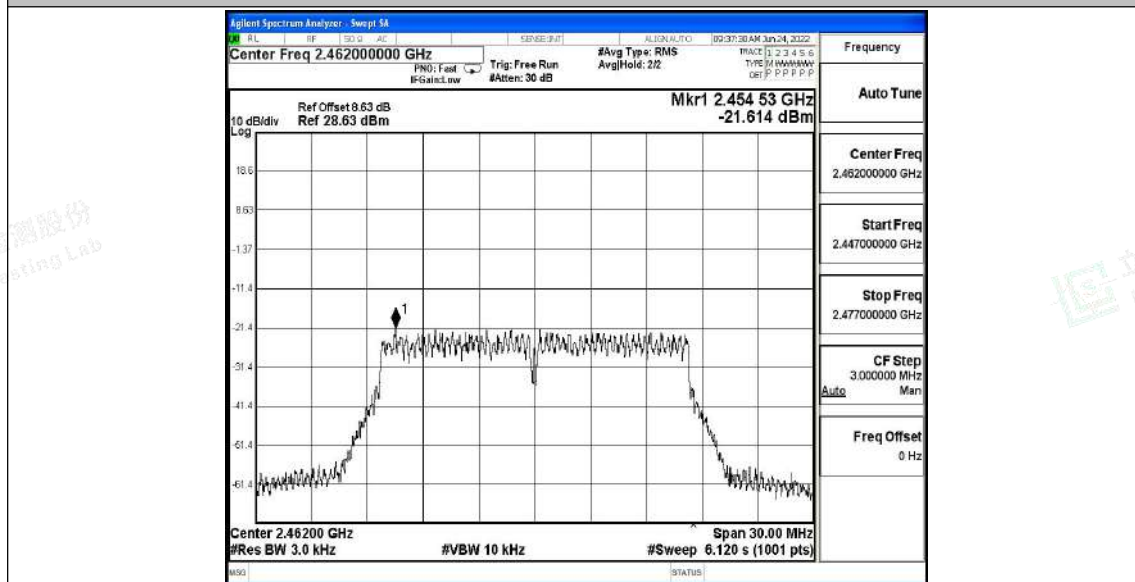
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11G_Ant1_2462



11N20SISO_Ant1_2412

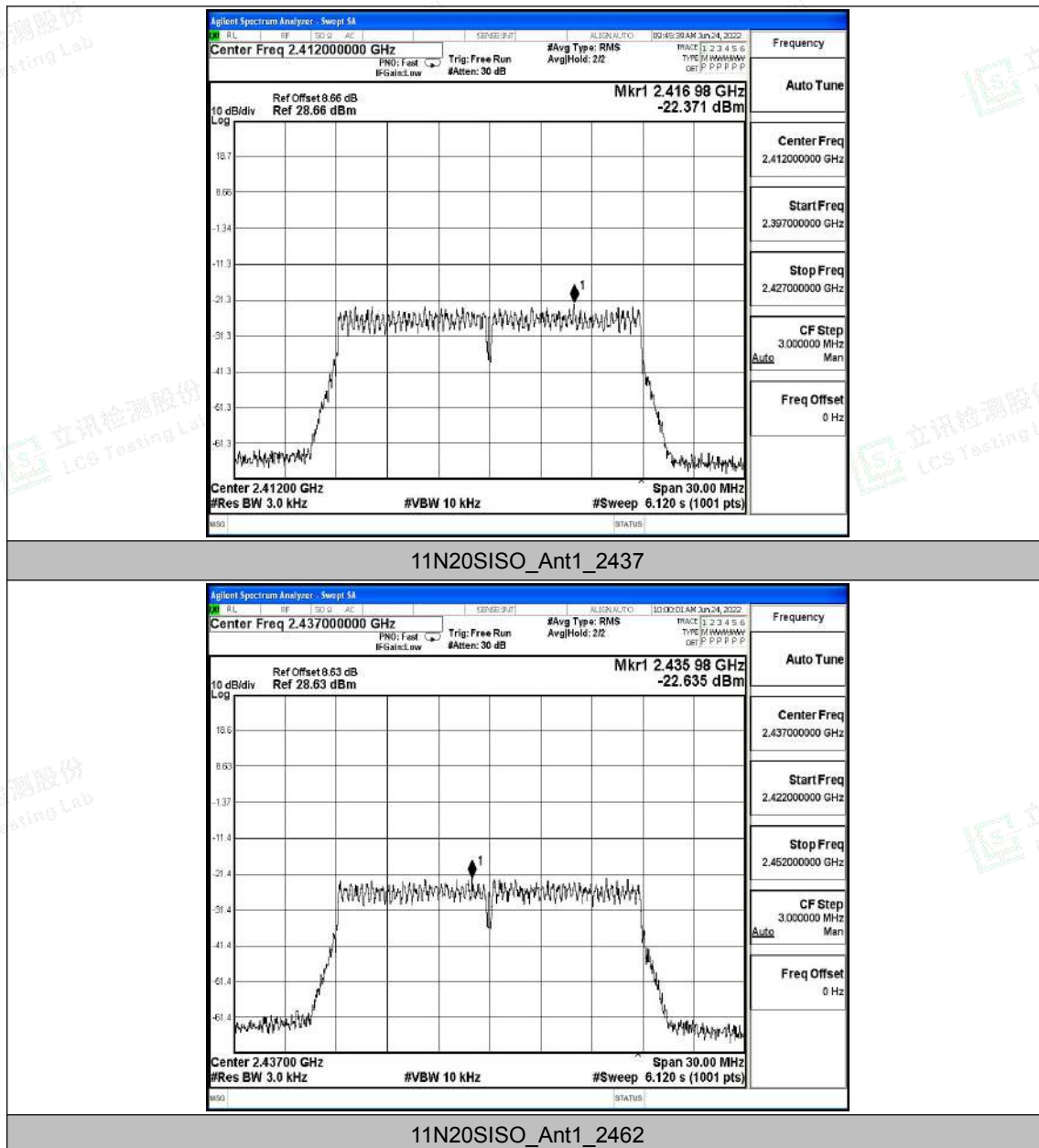


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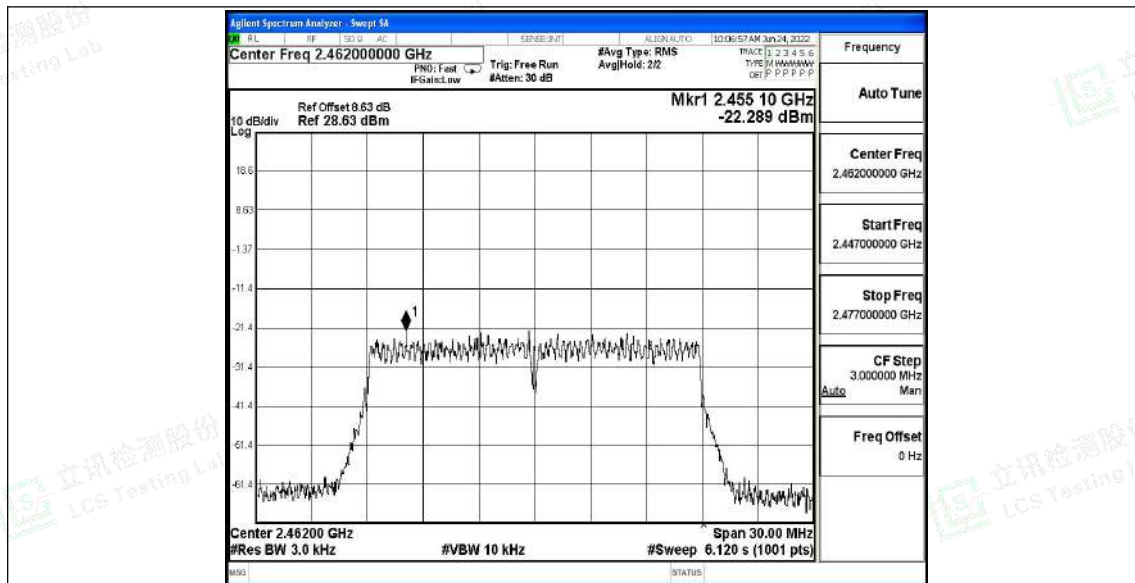


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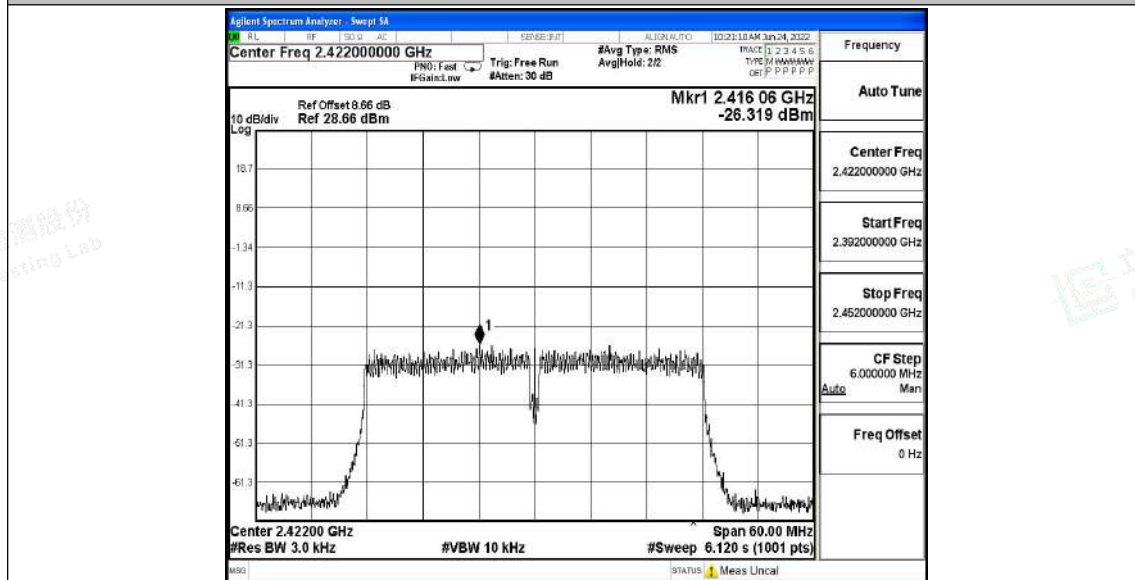
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

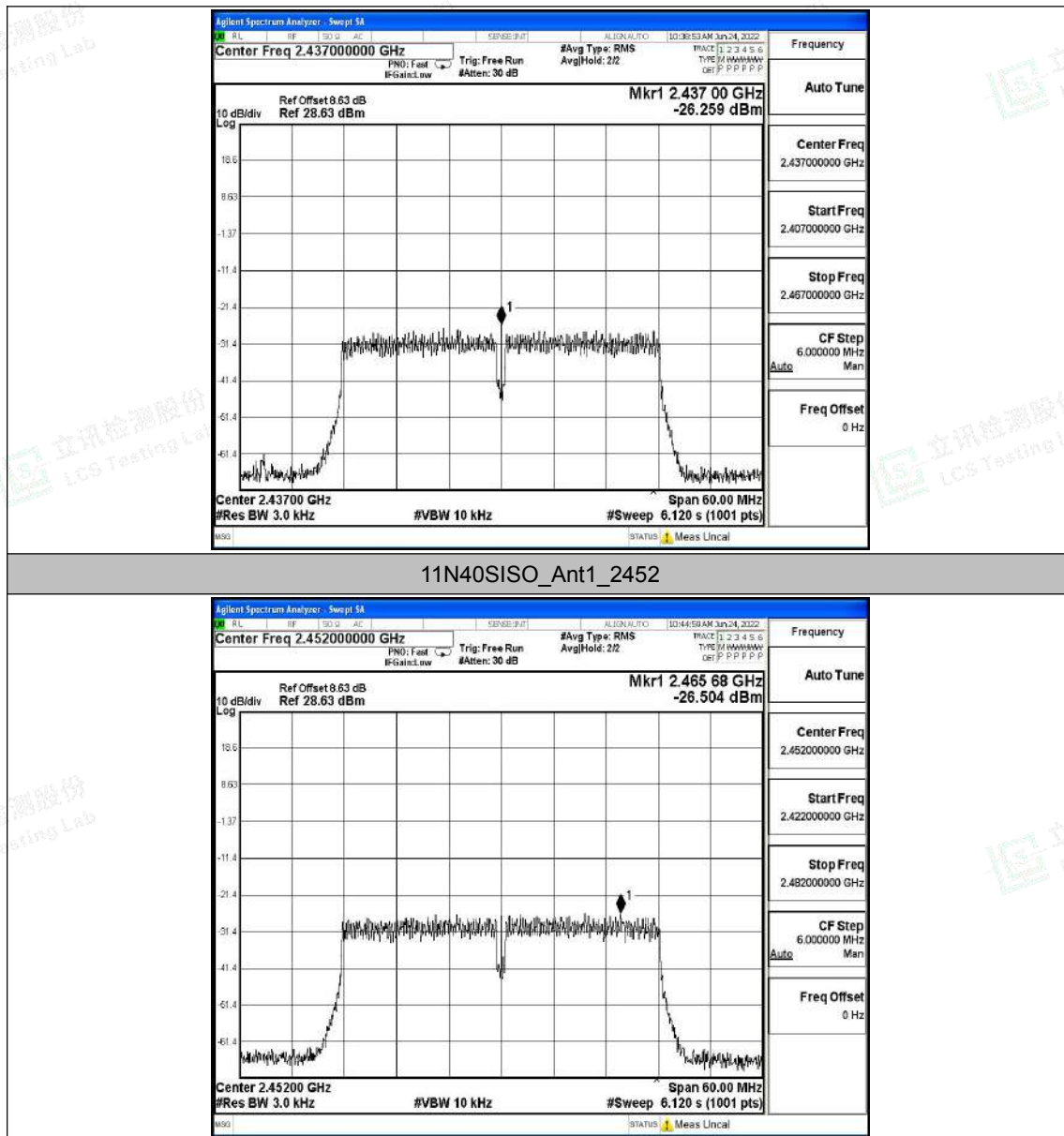


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B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.41	-42.65	≤-18.6	PASS
		High	2462	1.76	-47.19	≤-18.24	PASS
11G	Ant1	Low	2412	-6.72	-42.54	≤-26.72	PASS
		High	2462	-7.08	-46.73	≤-27.08	PASS
11N20SISO	Ant1	Low	2412	-7.78	-45.64	≤-27.78	PASS
		High	2462	-7.76	-48	≤-27.76	PASS
11N40SISO	Ant1	Low	2422	-11.81	-46.92	≤-31.81	PASS
		High	2452	-11.59	-45.13	≤-31.59	PASS



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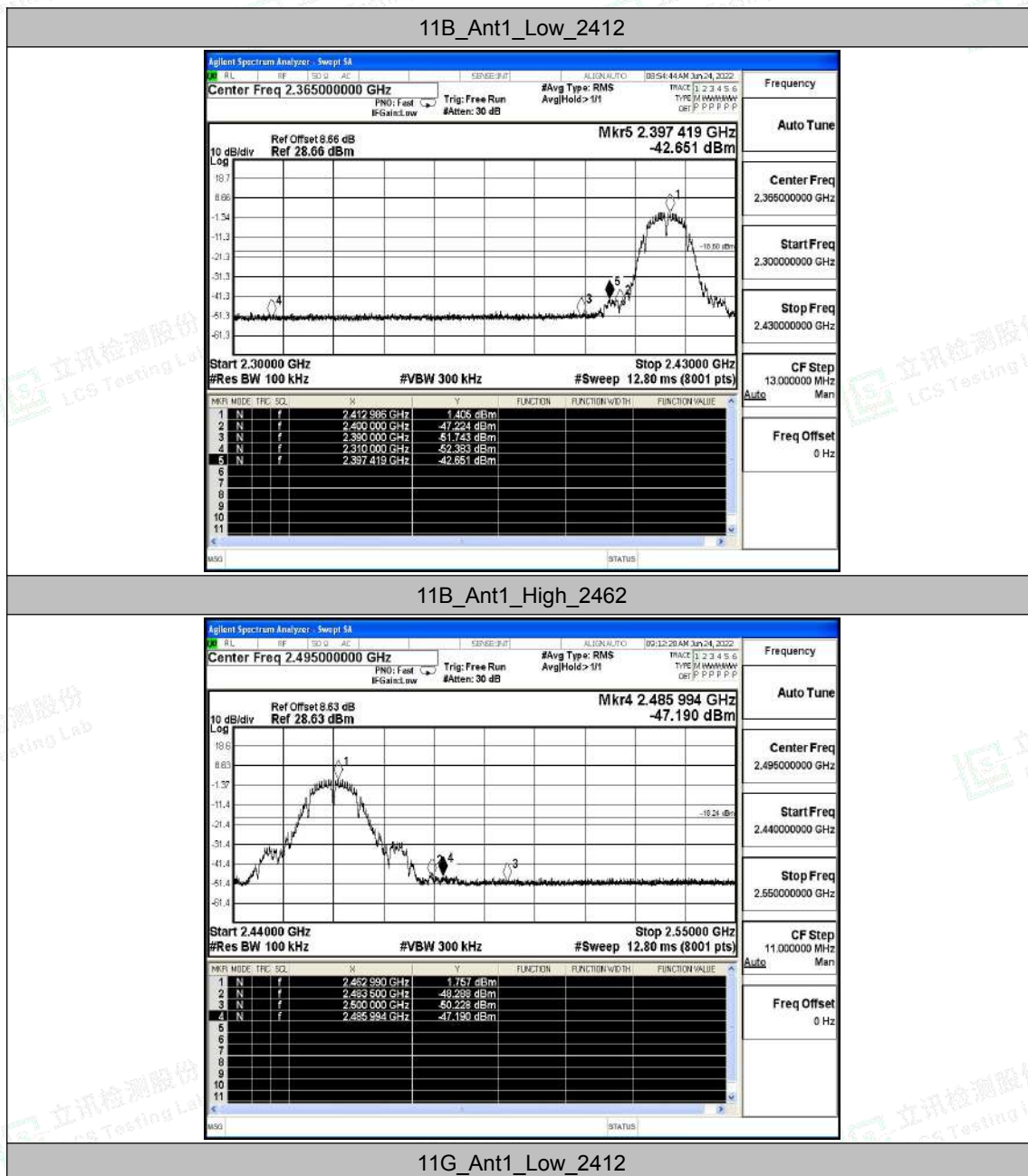
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Test Graphs

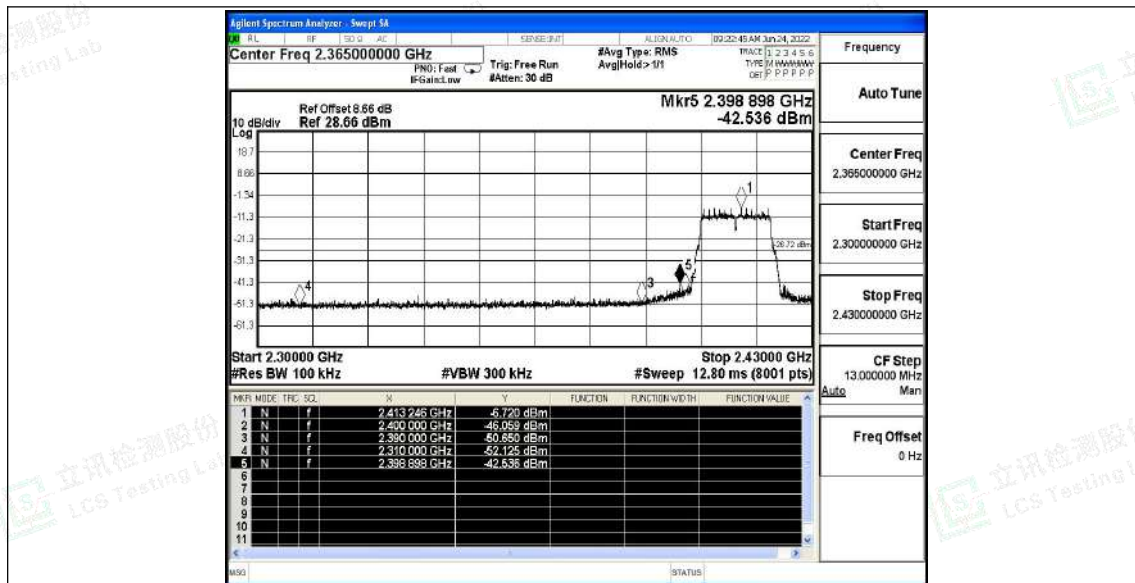


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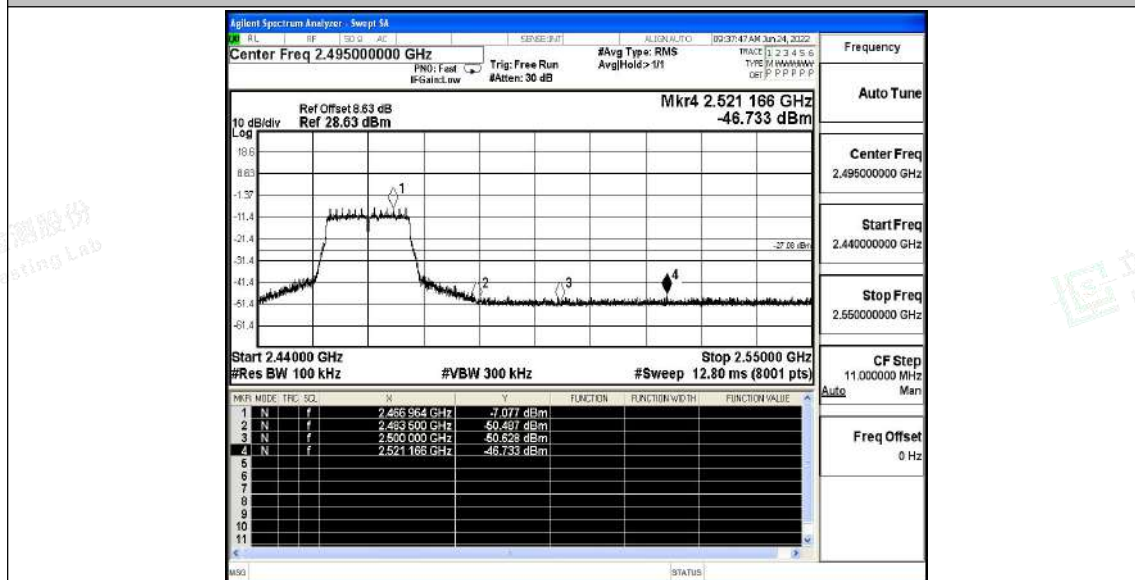
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

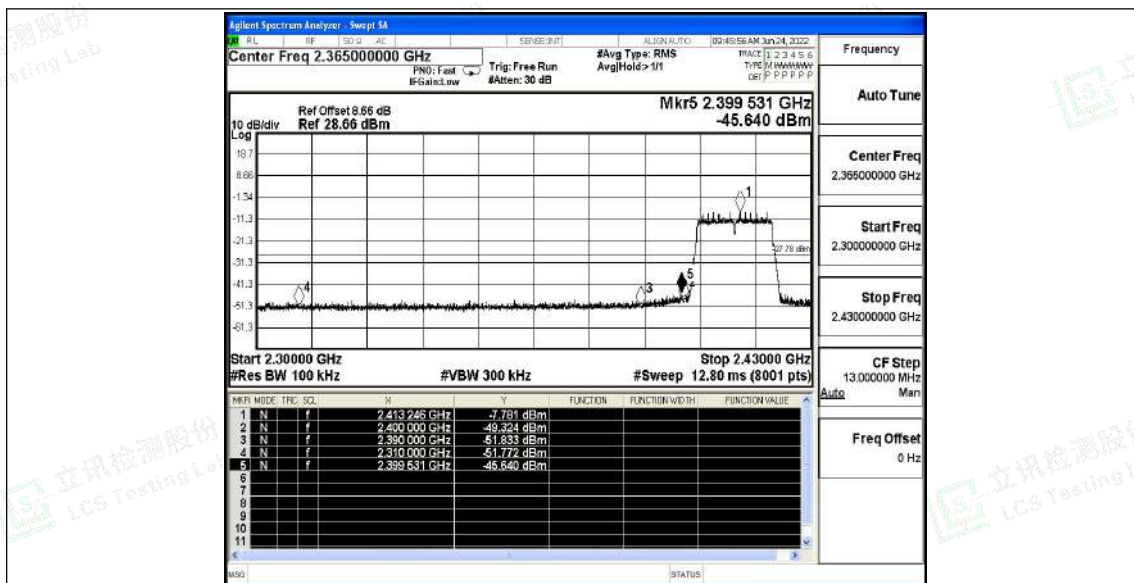


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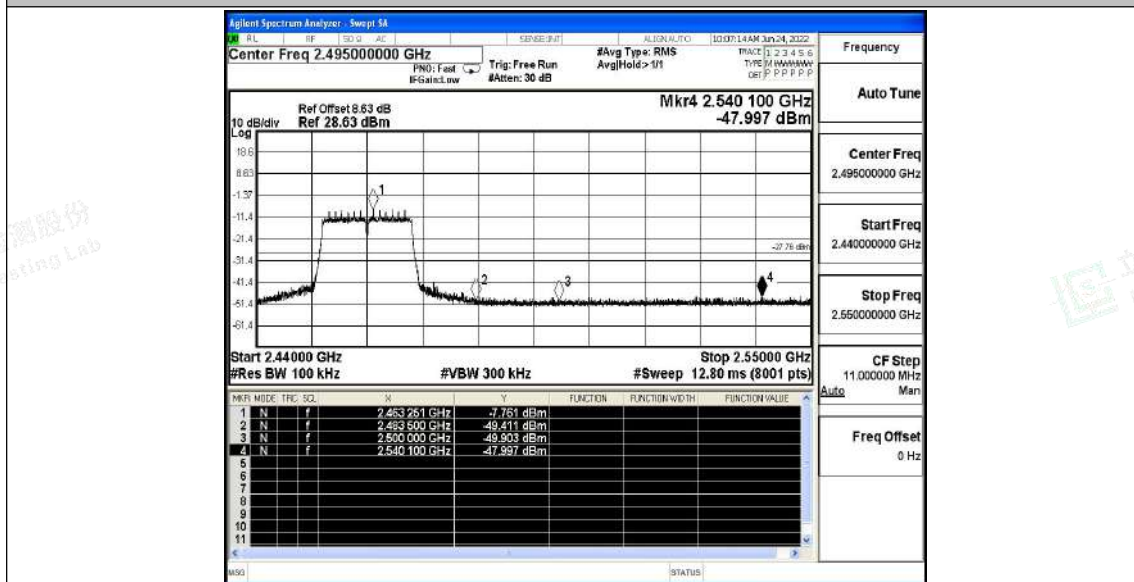
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

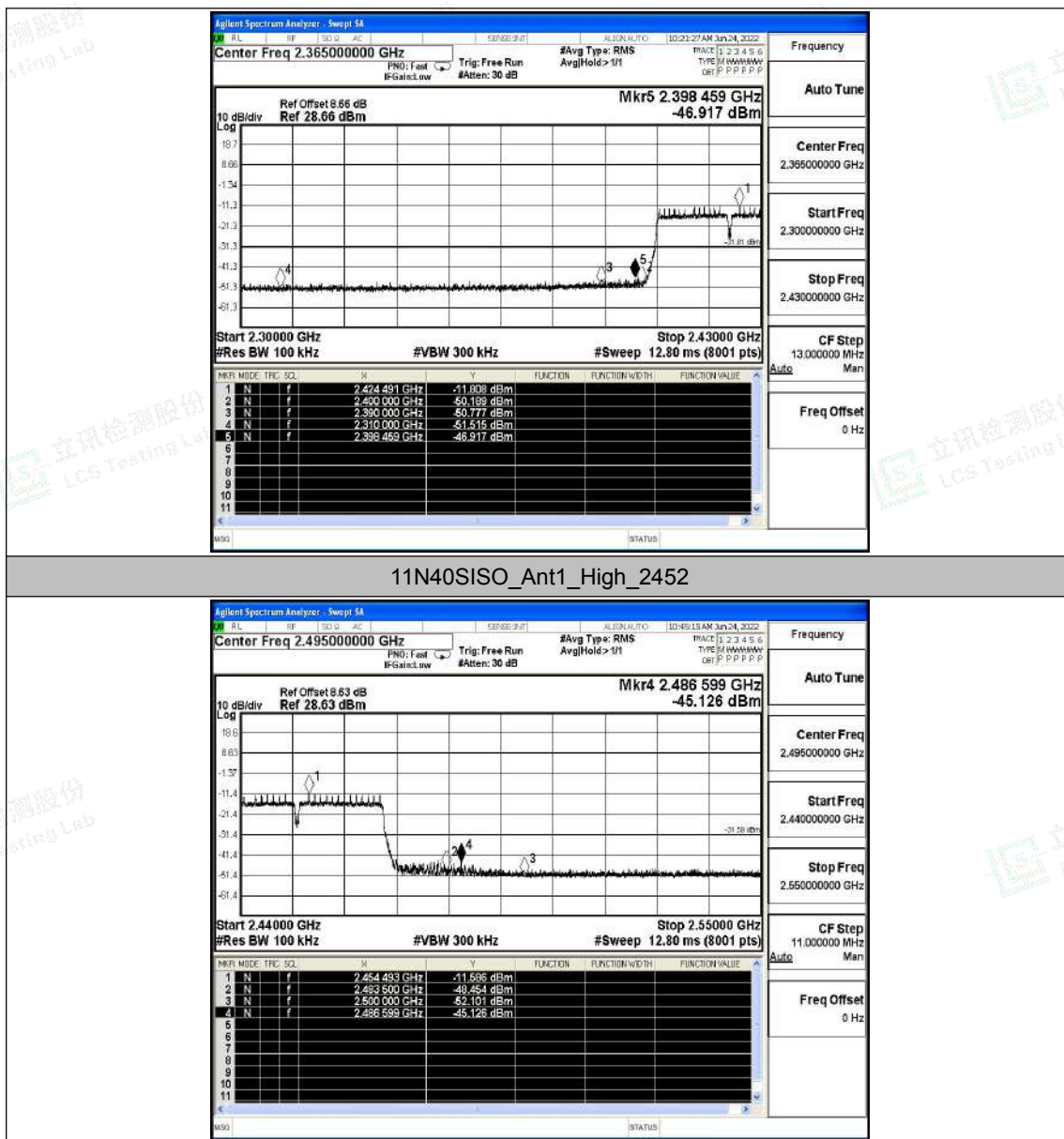


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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.60	1.60	---	PASS
			30~1000	1.60	-60.25	≤-18.4	PASS
			1000~26500	1.60	-45.66	≤-18.4	PASS
		2437	Reference	1.43	1.43	---	PASS
			30~1000	1.43	-60.86	≤-18.57	PASS
			1000~26500	1.43	-45.64	≤-18.57	PASS
		2462	Reference	1.88	1.88	---	PASS
			30~1000	1.88	-61.14	≤-18.12	PASS
			1000~26500	1.88	-46.45	≤-18.12	PASS
11G	Ant1	2412	Reference	-6.97	-6.97	---	PASS
			30~1000	-6.97	-59.85	≤-26.97	PASS
			1000~26500	-6.97	-46.18	≤-26.97	PASS
		2437	Reference	-6.28	-6.28	---	PASS
			30~1000	-6.28	-60.4	≤-26.28	PASS
			1000~26500	-6.28	-45.3	≤-26.28	PASS
		2462	Reference	-6.55	-6.55	---	PASS
			30~1000	-6.55	-60.33	≤-26.55	PASS
			1000~26500	-6.55	-45.83	≤-26.55	PASS
11N20SISO	Ant1	2412	Reference	-7.94	-7.94	---	PASS
			30~1000	-7.94	-60.26	≤-27.94	PASS
			1000~26500	-7.94	-45.48	≤-27.94	PASS
		2437	Reference	-7.30	-7.30	---	PASS
			30~1000	-7.30	-60.51	≤-27.3	PASS
			1000~26500	-7.30	-46.18	≤-27.3	PASS
		2462	Reference	-7.70	-7.70	---	PASS
			30~1000	-7.70	-61.02	≤-27.7	PASS
			1000~26500	-7.70	-45.35	≤-27.7	PASS
11N40SISO	Ant1	2422	Reference	-11.72	-11.72	---	PASS
			30~1000	-11.72	-61.09	≤-31.72	PASS
			1000~26500	-11.72	-46.15	≤-31.72	PASS
		2437	Reference	-12.51	-12.51	---	PASS
			30~1000	-12.51	-60.77	≤-32.51	PASS
			1000~26500	-12.51	-45.77	≤-32.51	PASS
		2452	Reference	-11.41	-11.41	---	PASS
			30~1000	-11.41	-60.72	≤-31.41	PASS



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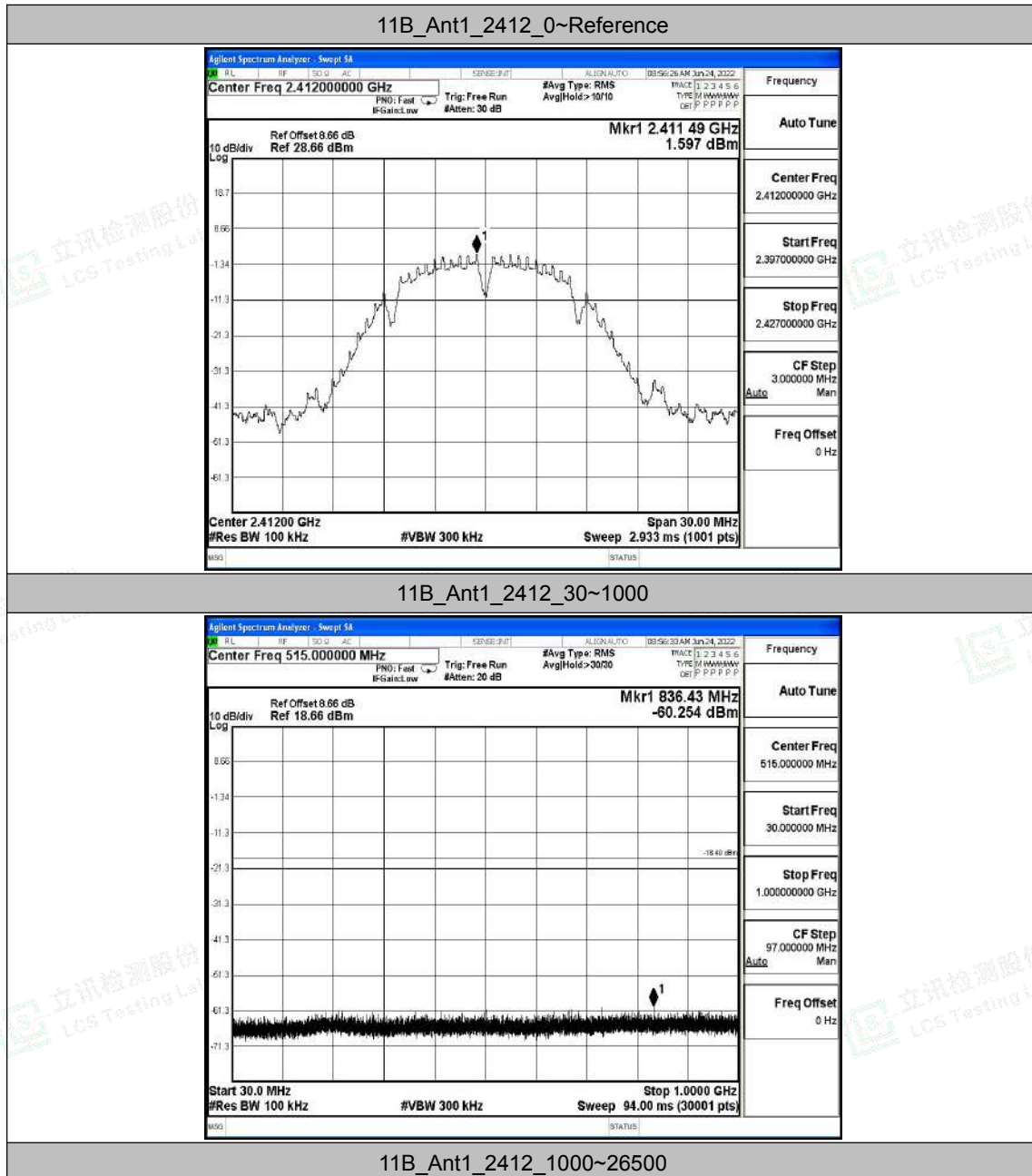
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			1000~26500	-11.41	-46	≤-31.41	PASS
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Test Graphs

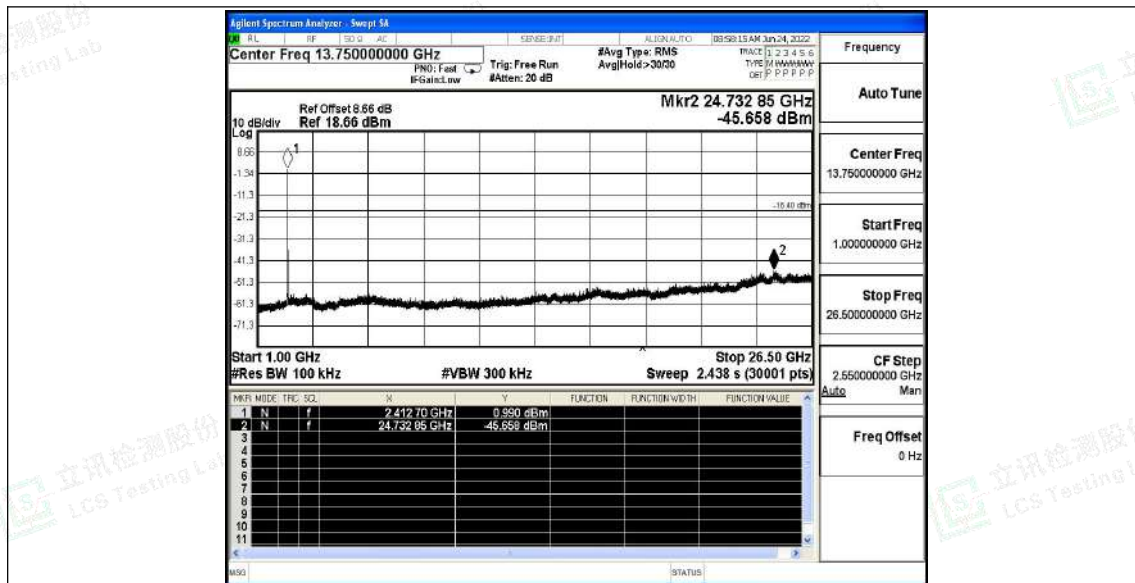


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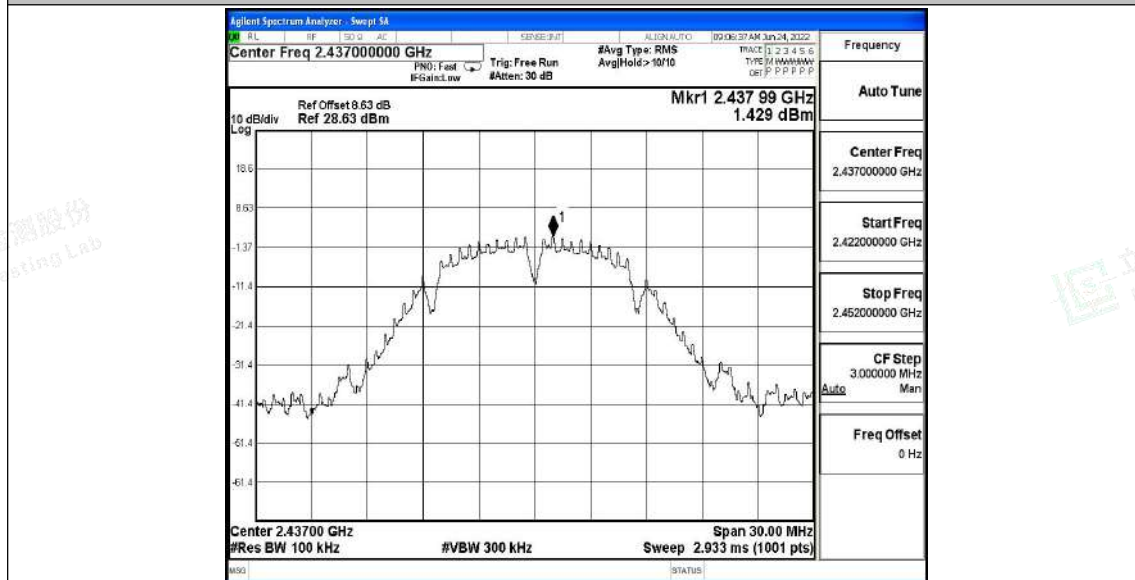
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

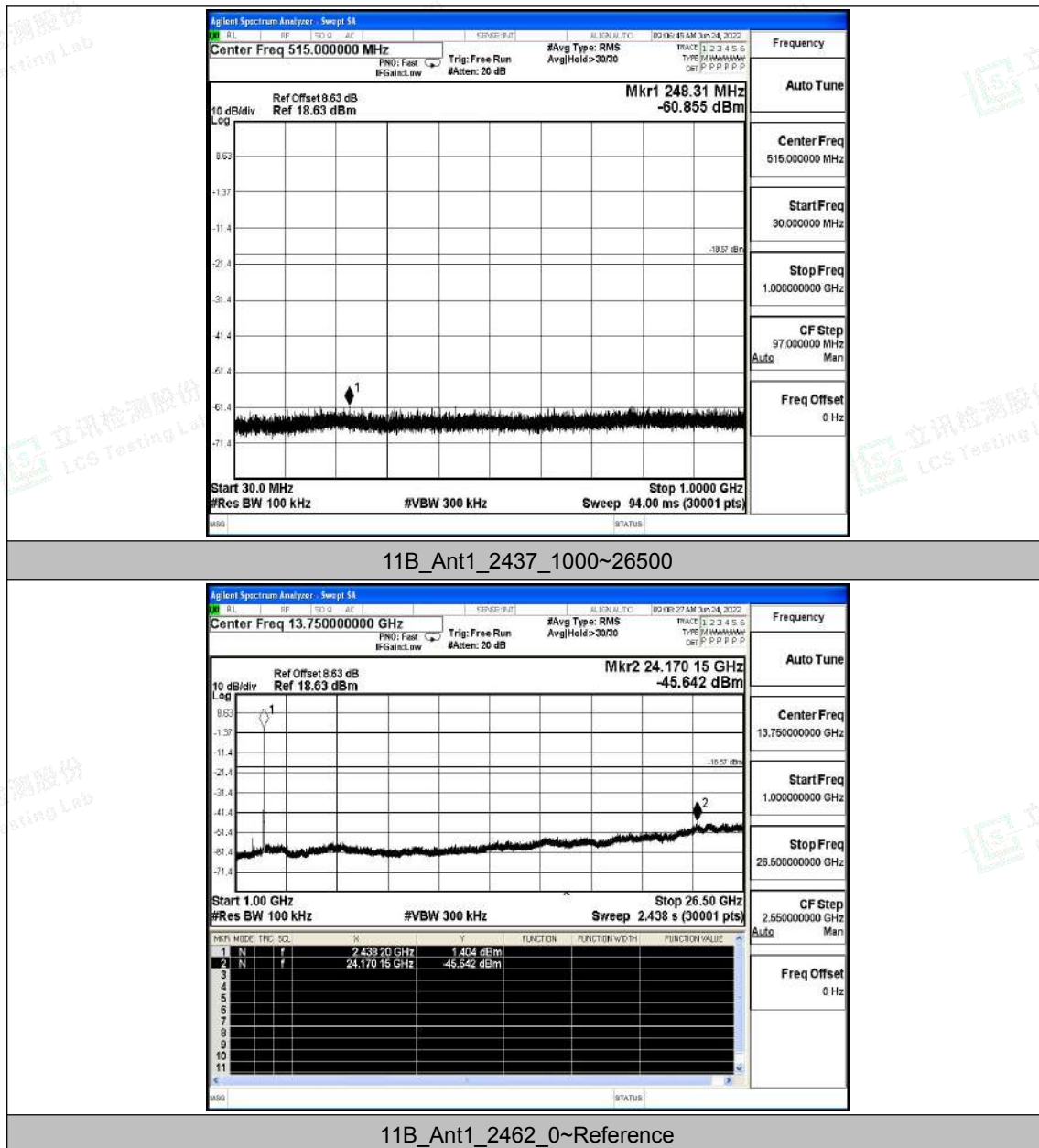


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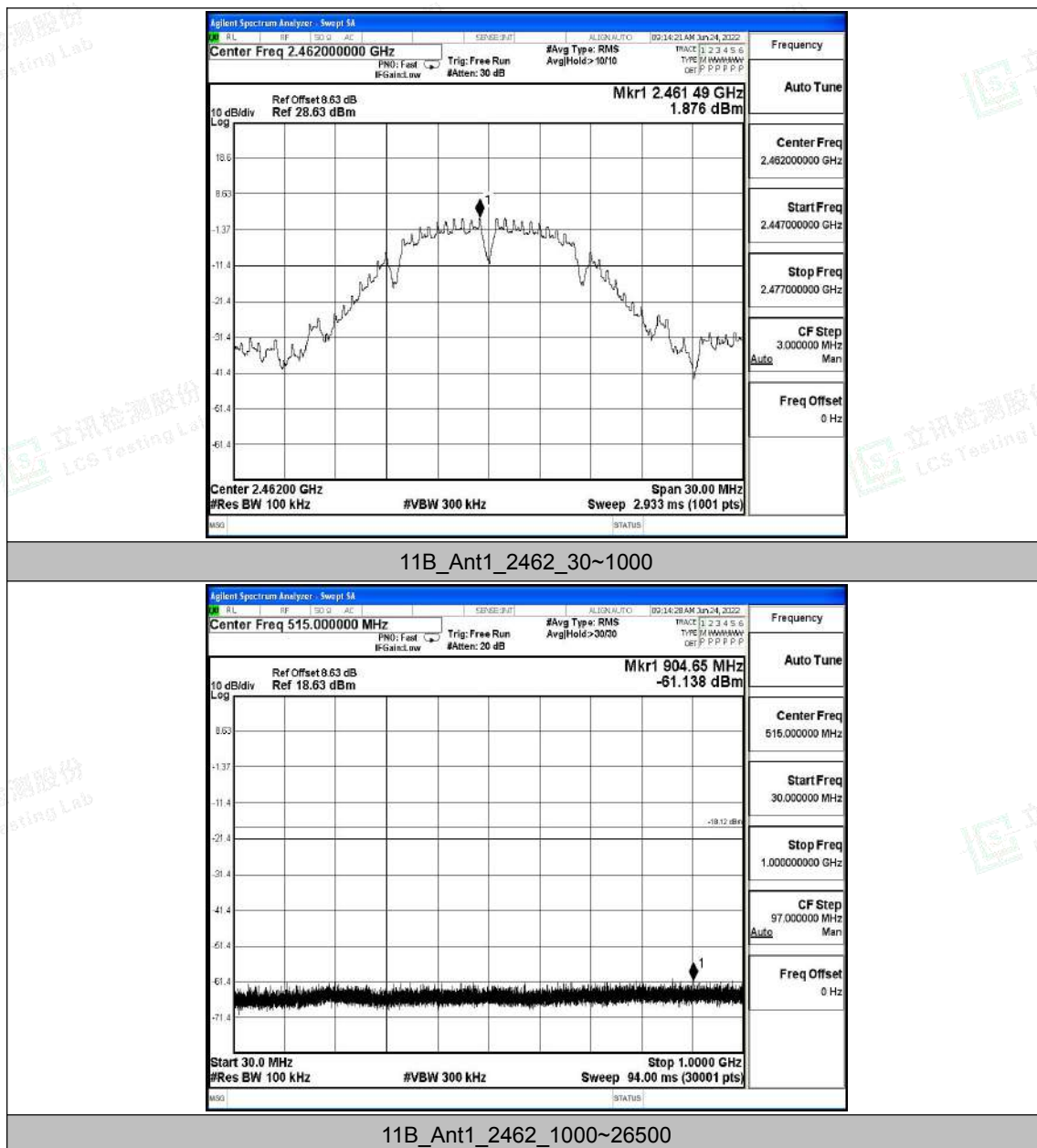


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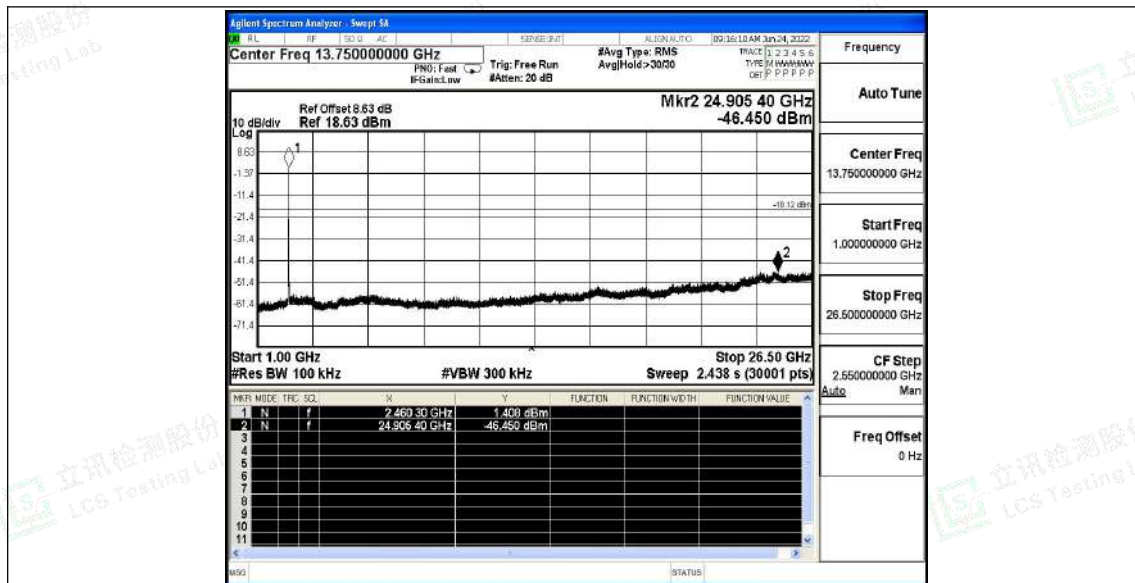


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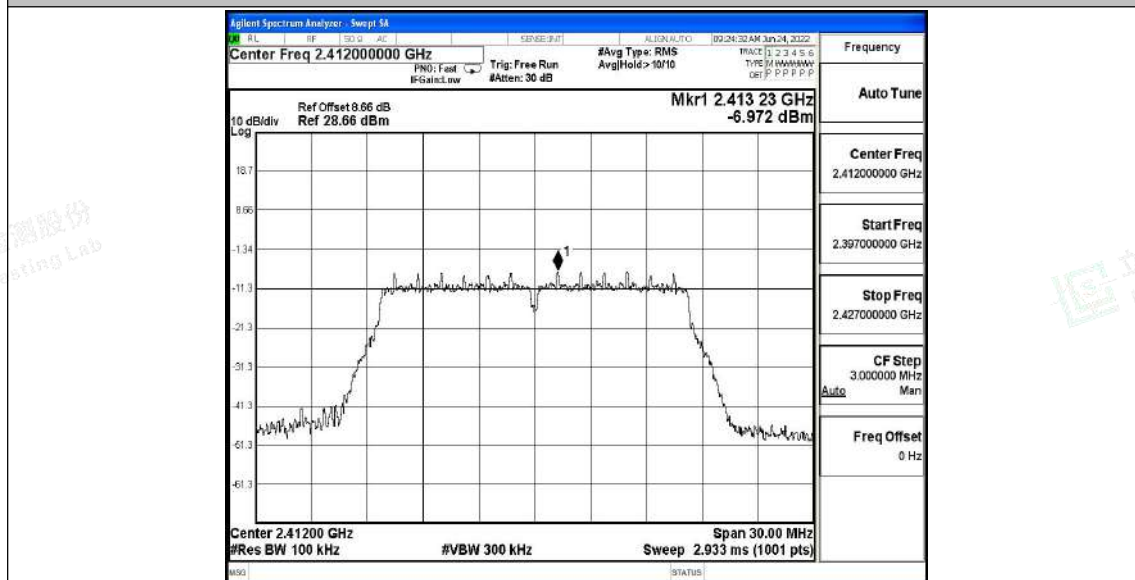
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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

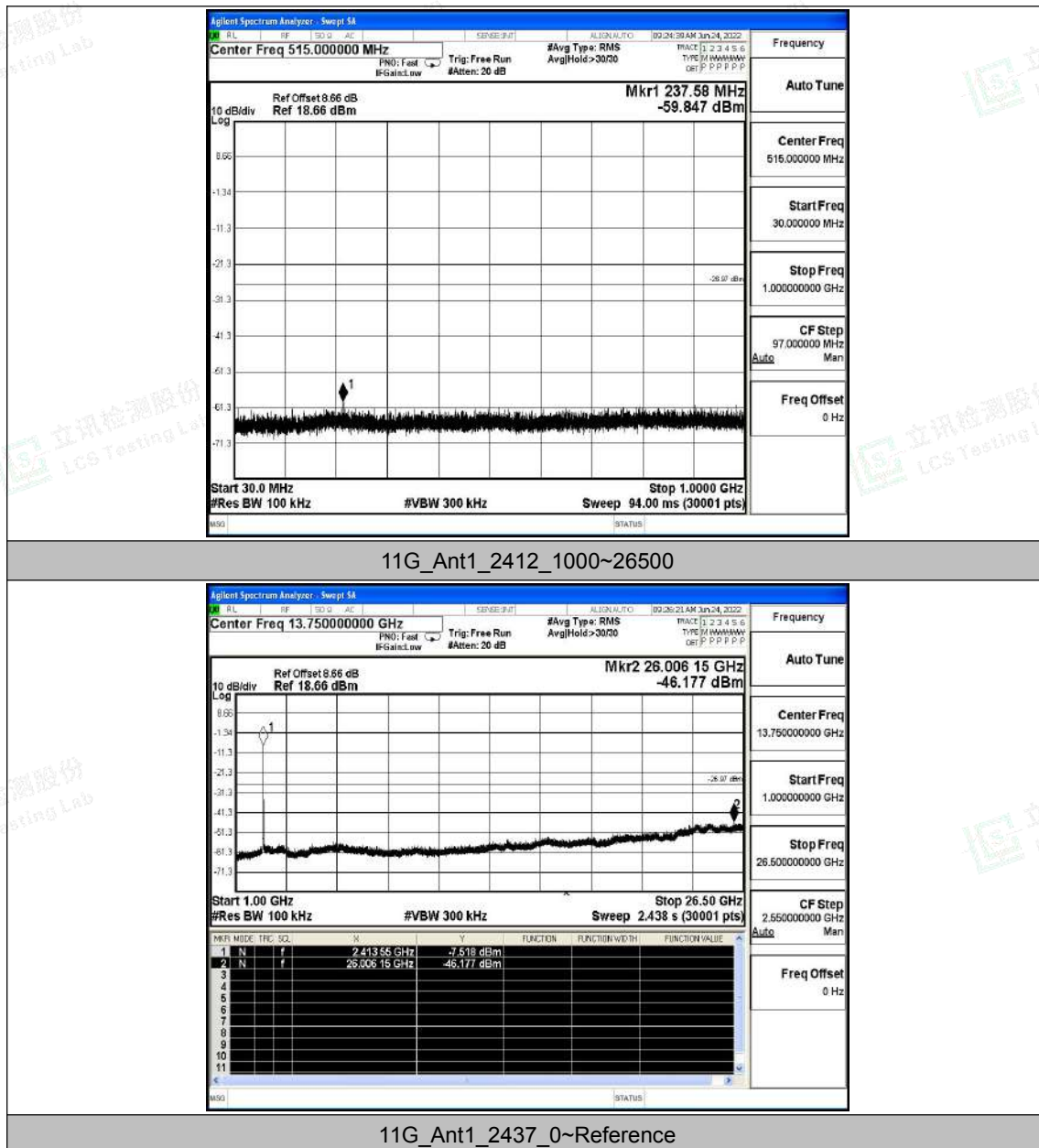


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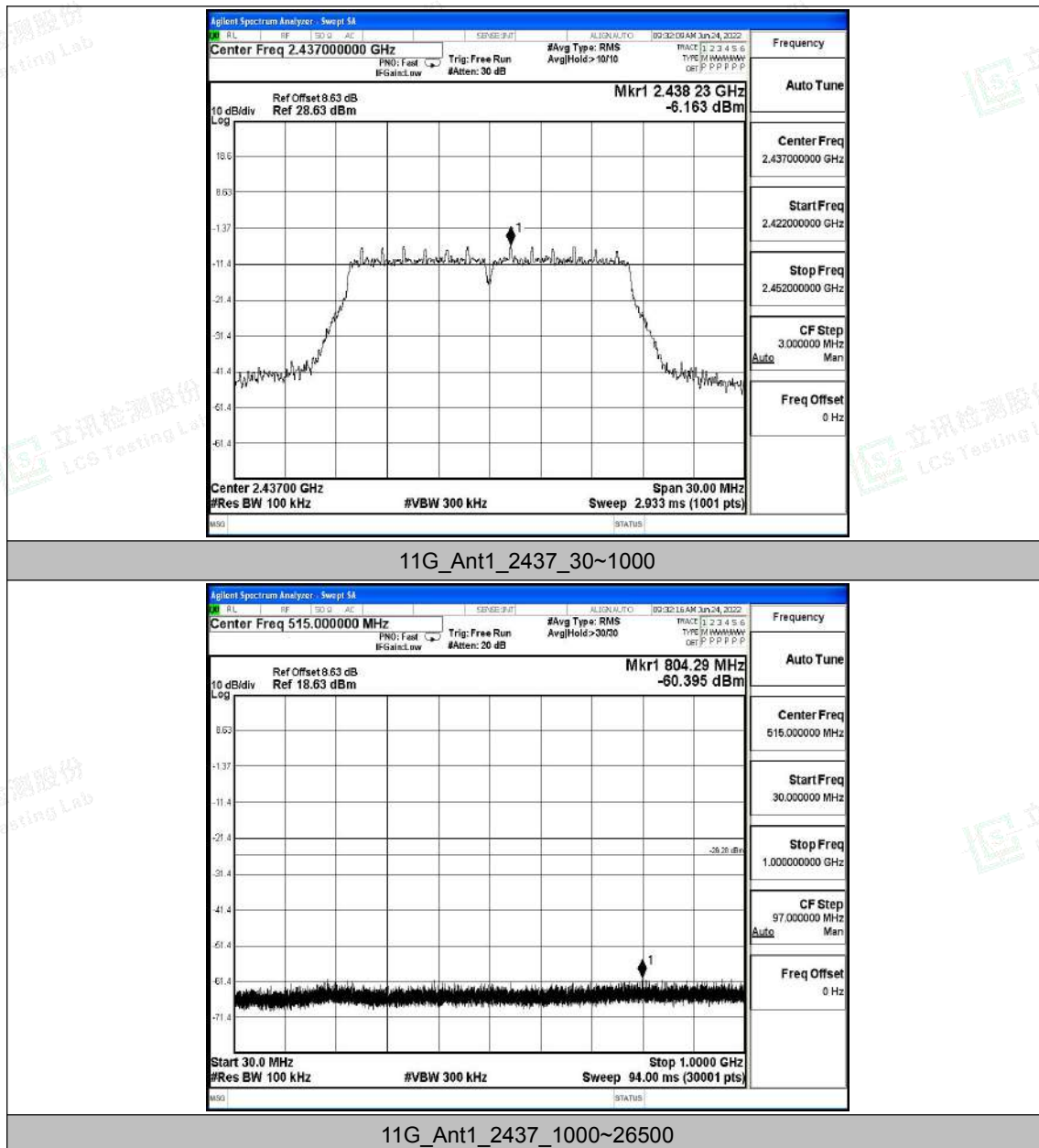


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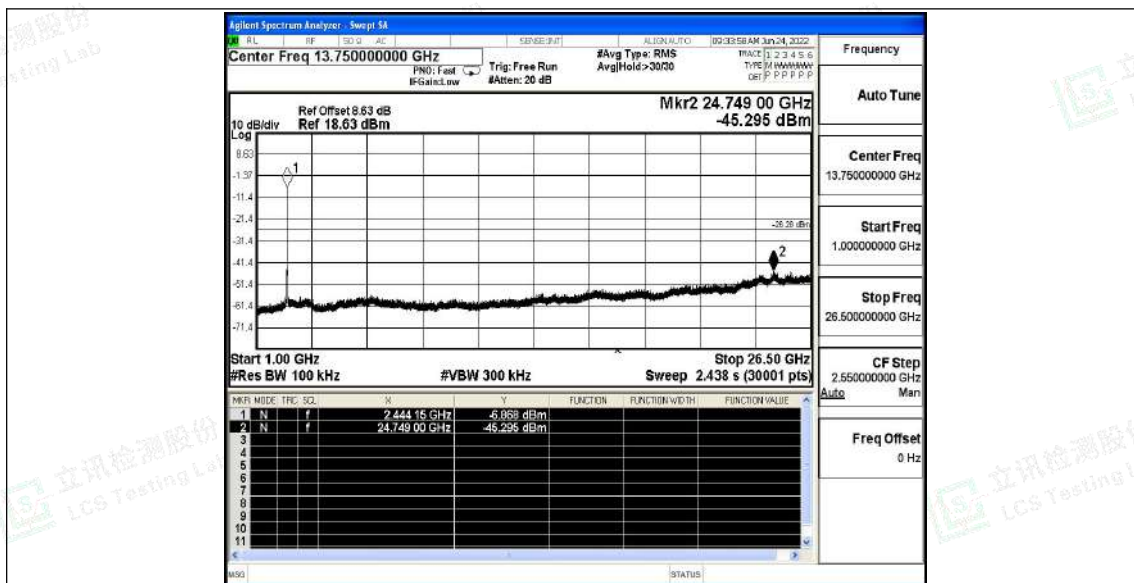


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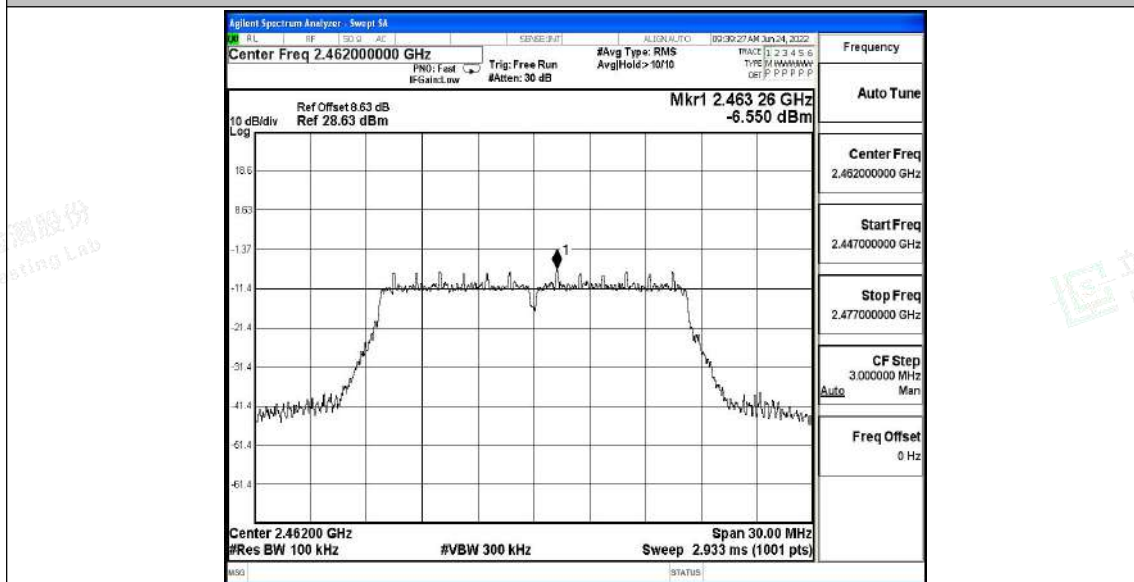
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

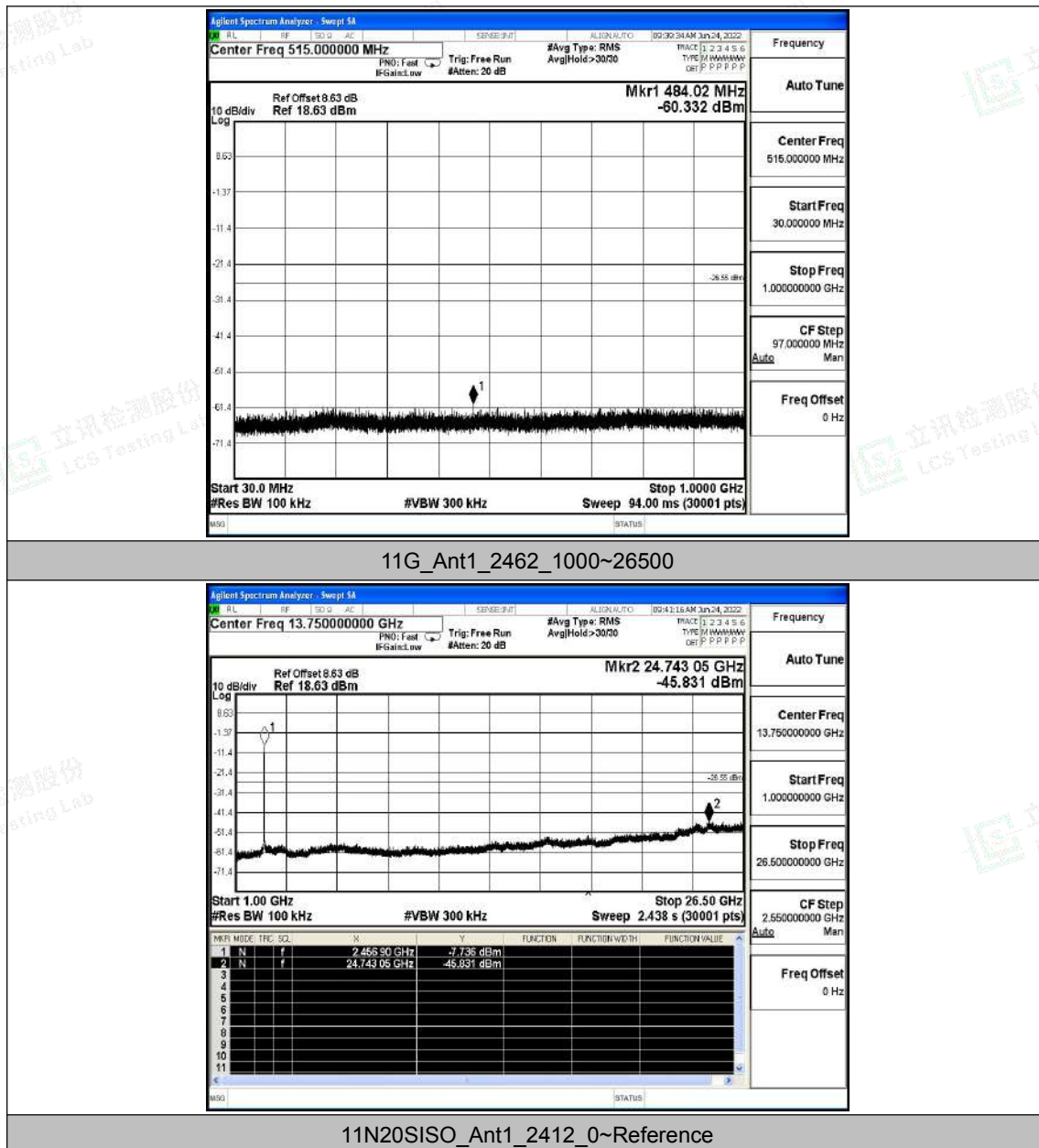


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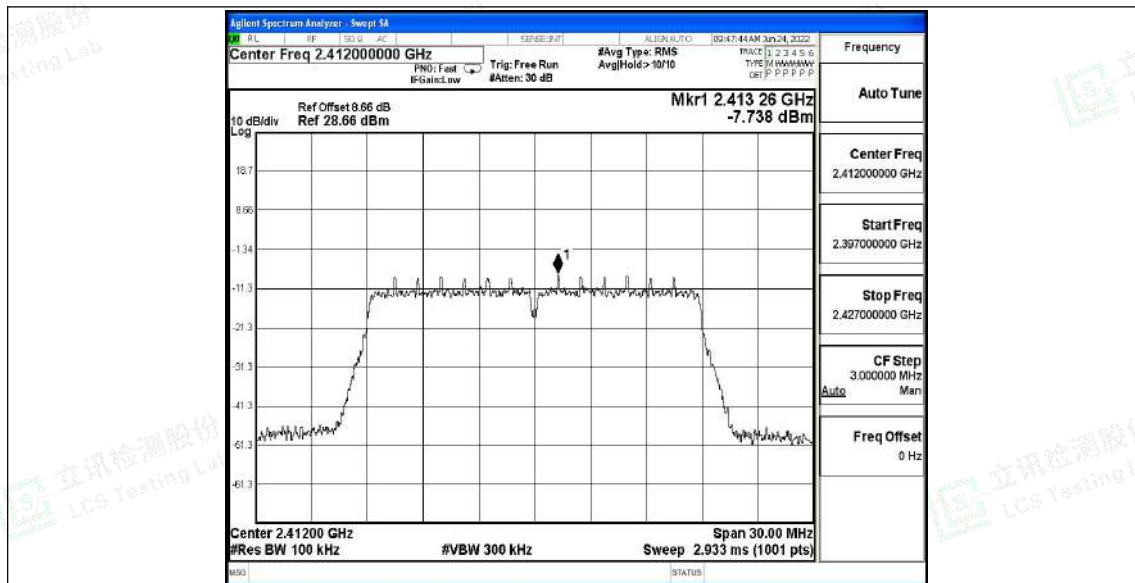


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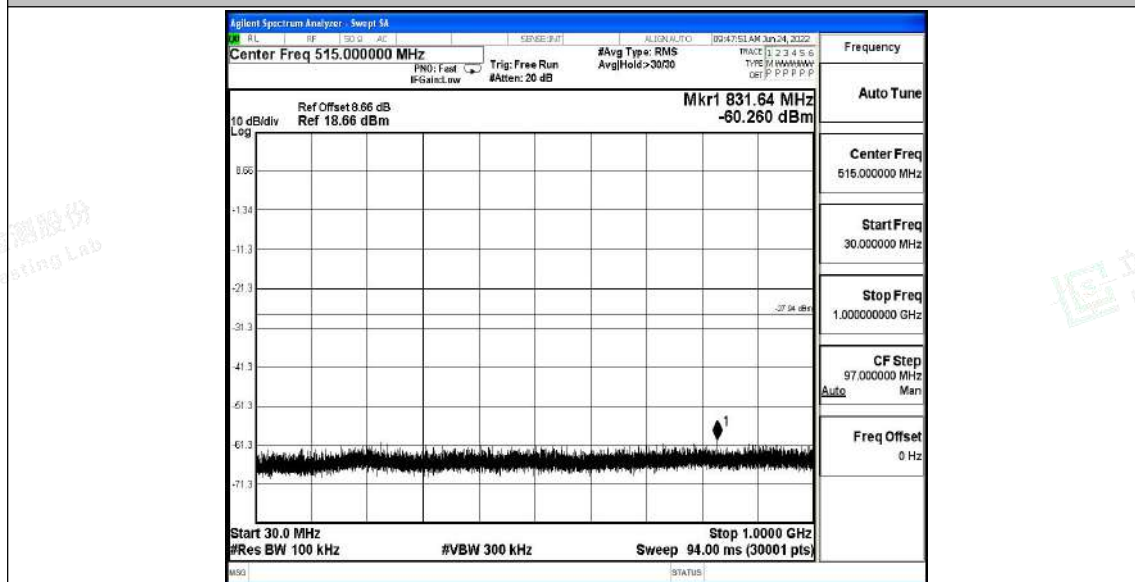
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11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500

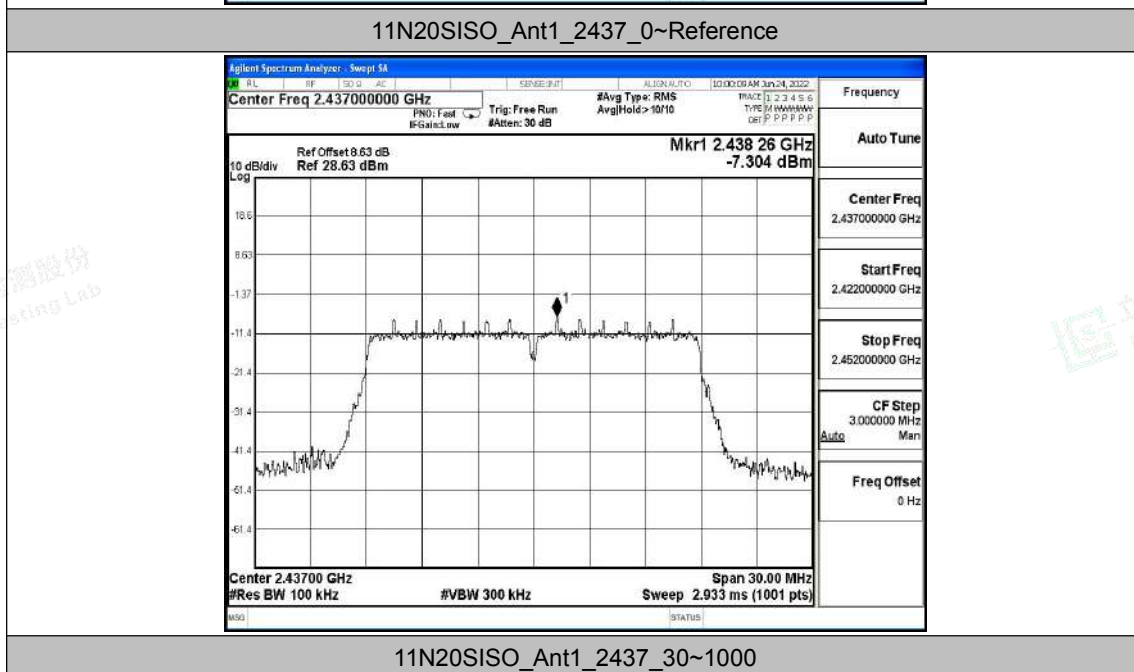
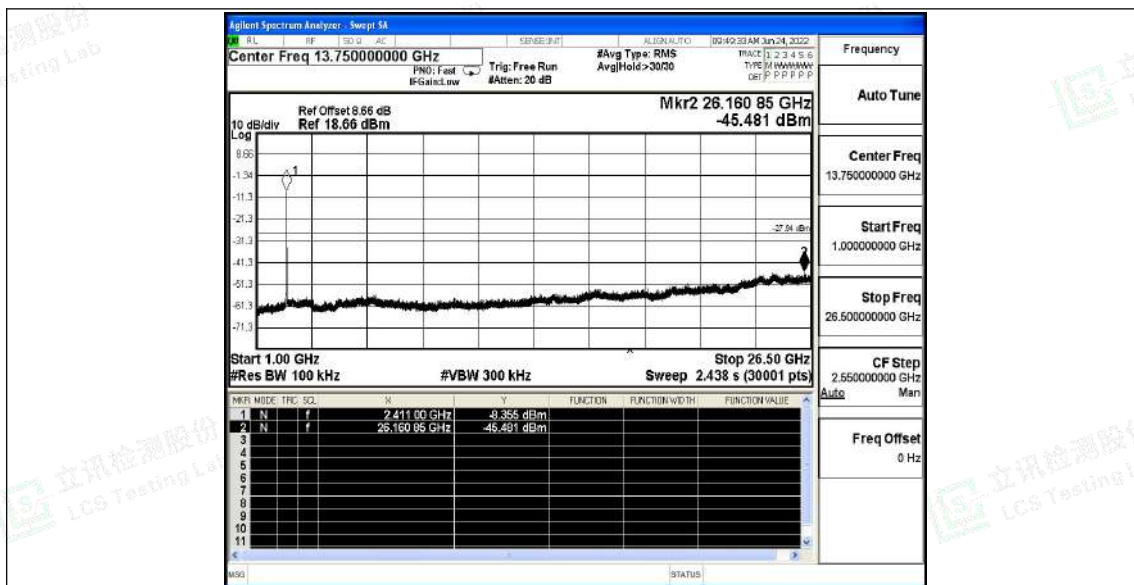


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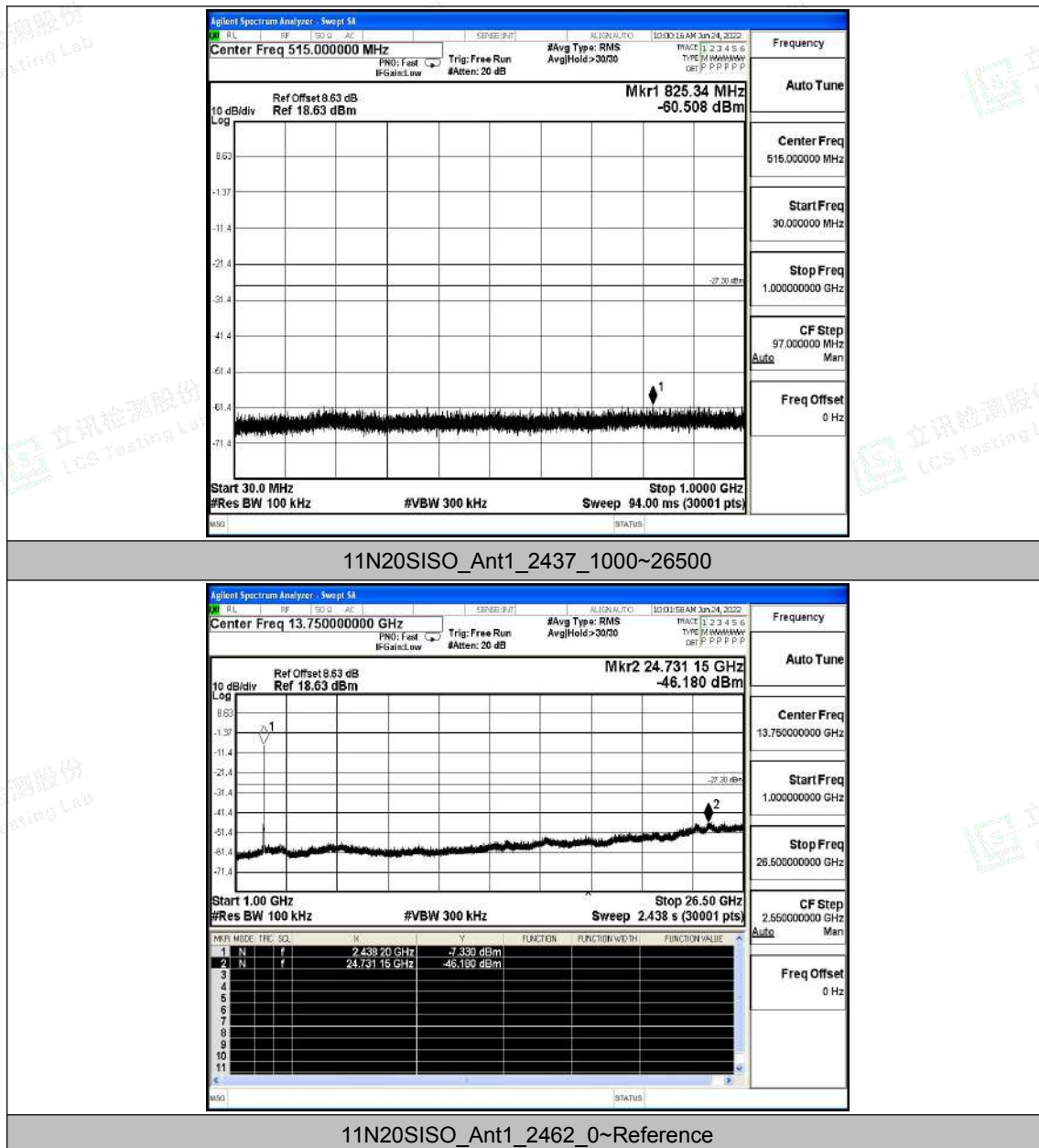


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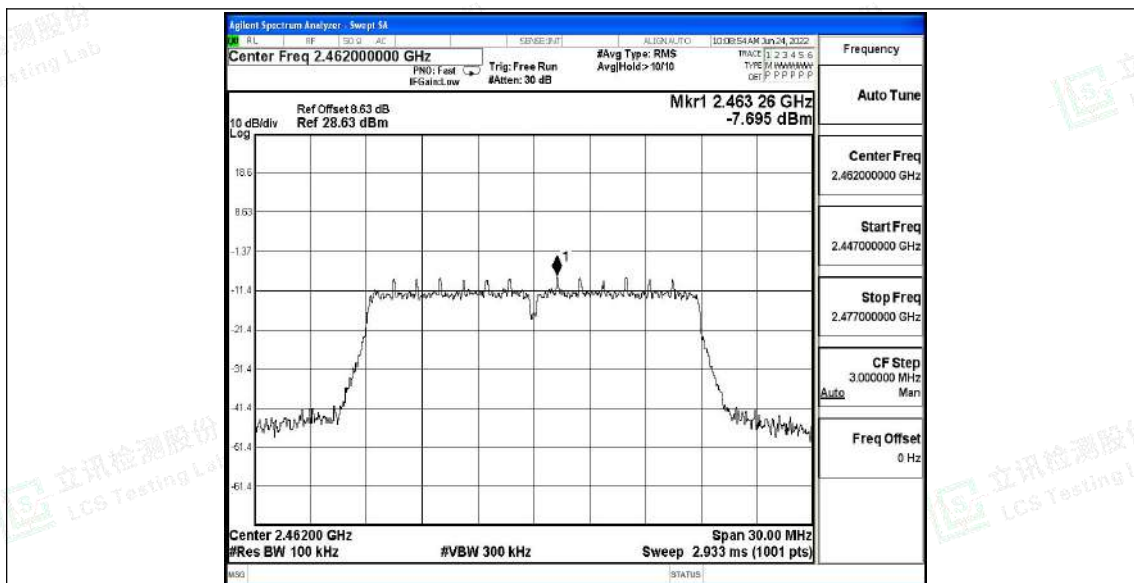


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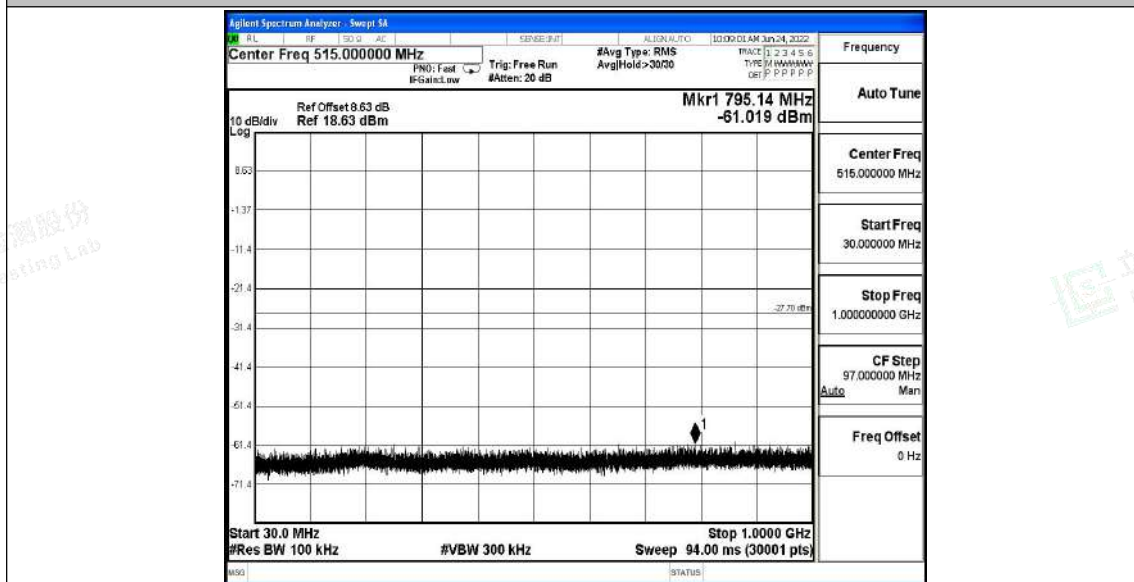
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500

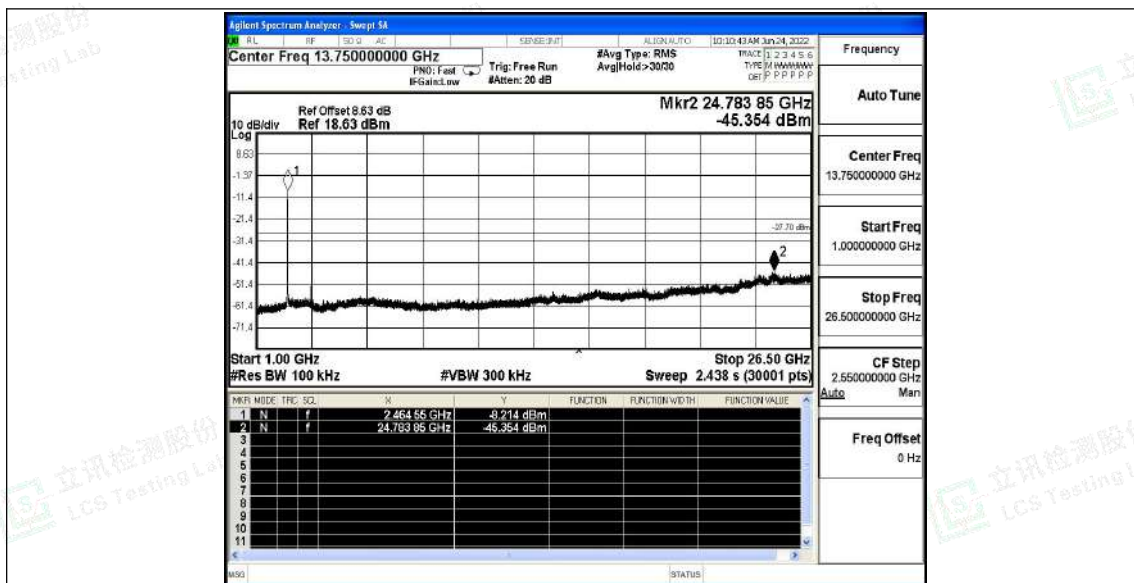


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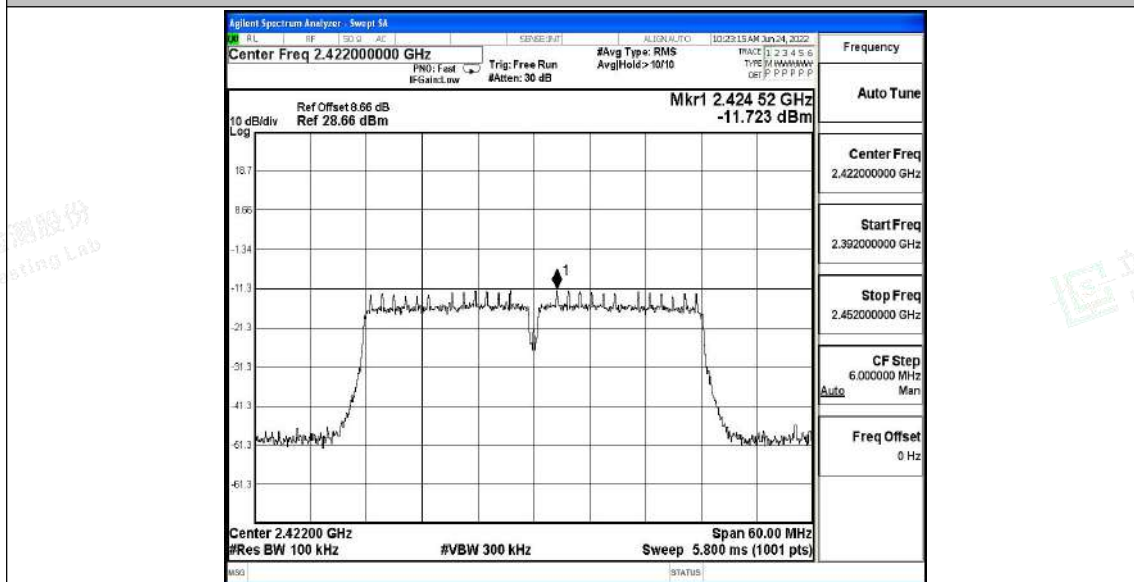
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11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000

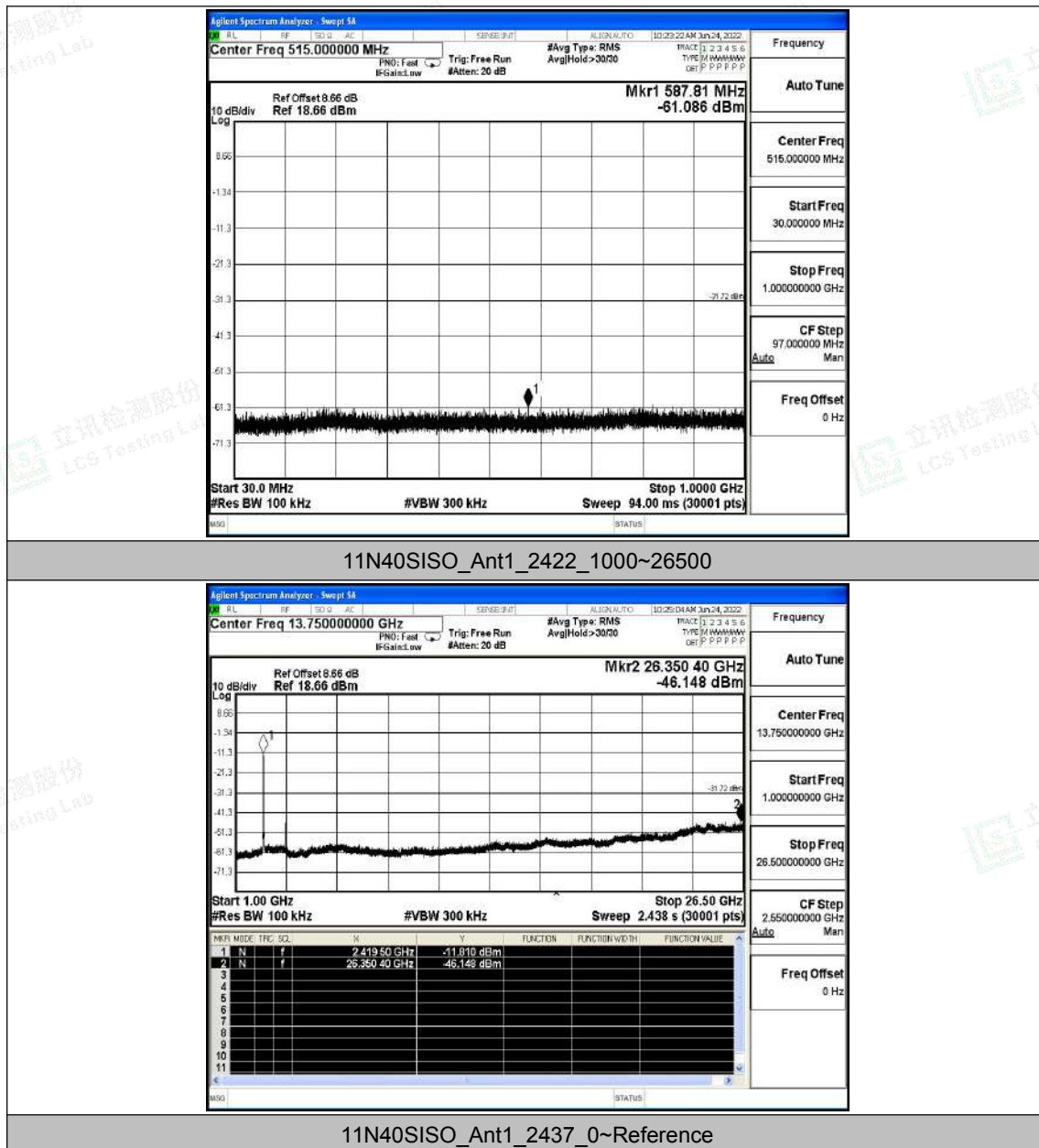


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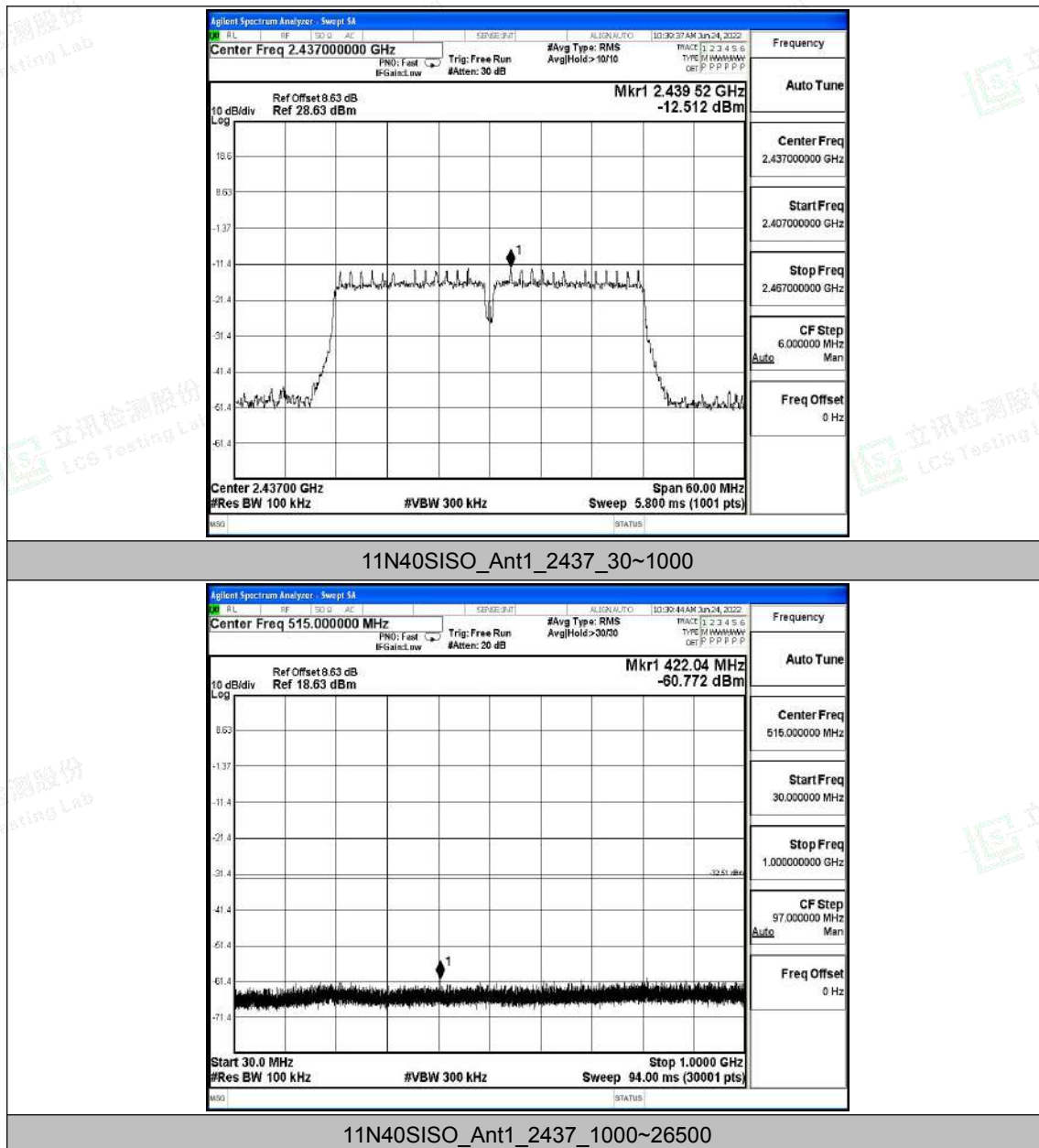


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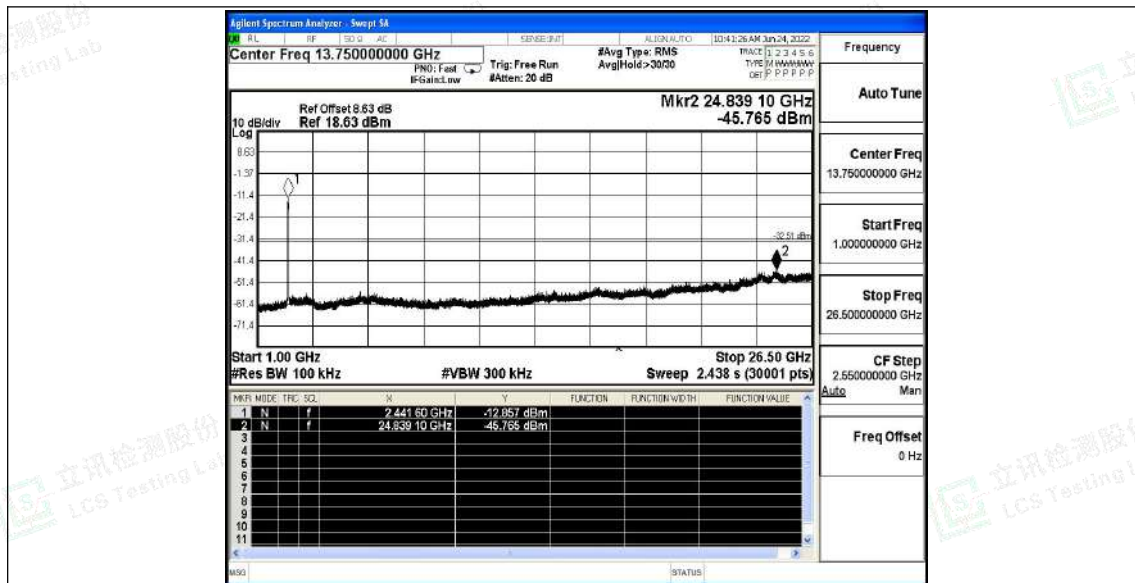


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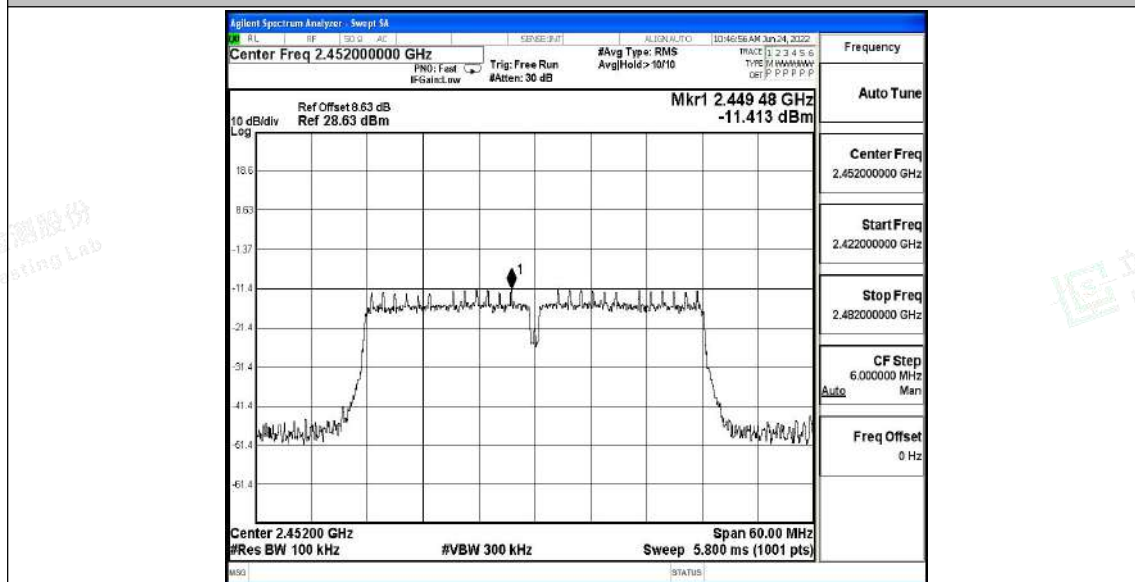
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11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000

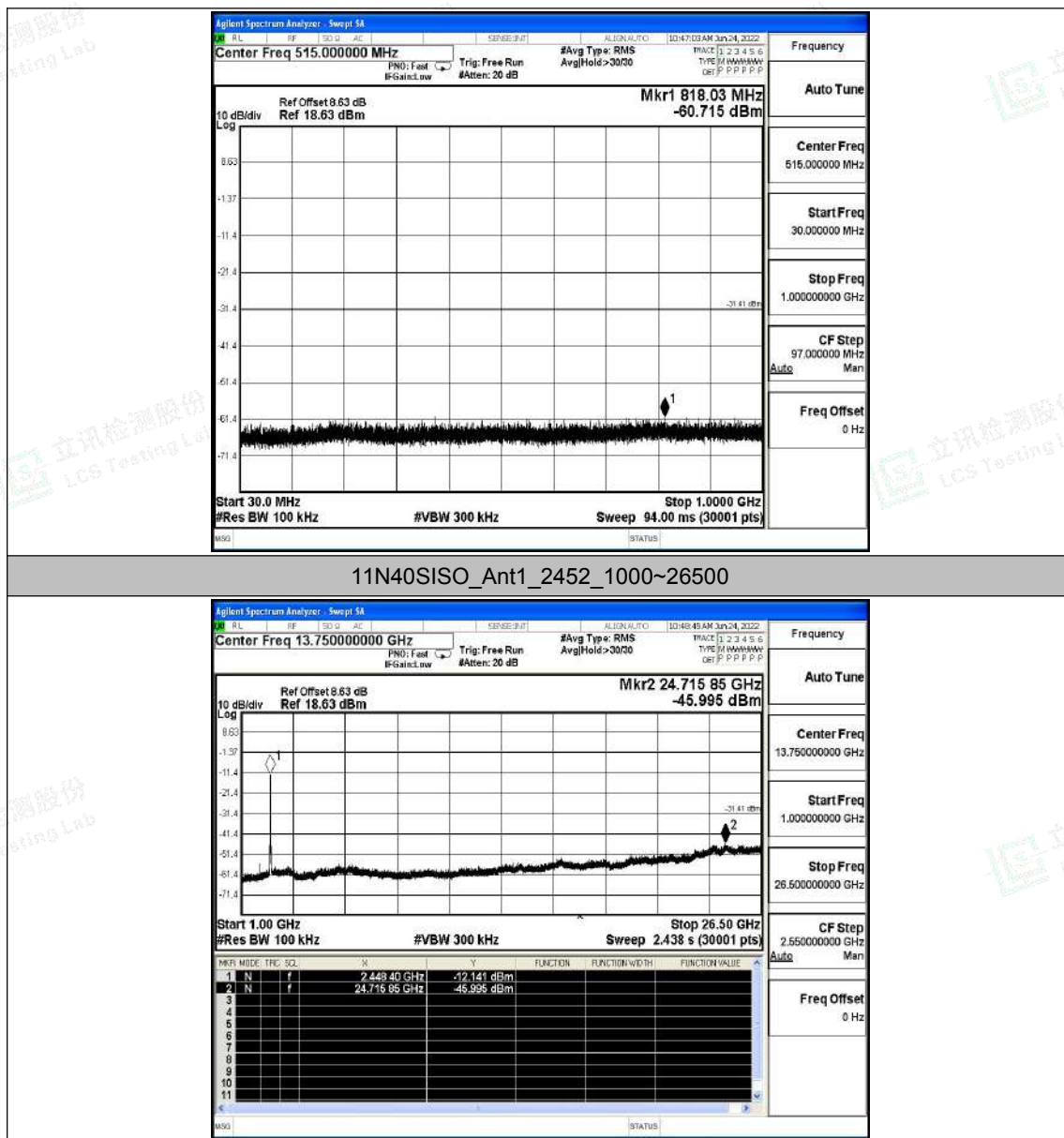


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B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
11B	Ant1	2412	8.39	8.41	99.76	---
		2437	8.38	8.41	99.64	---
		2462	8.39	8.41	99.76	---
11G	Ant1	2412	1.40	1.43	97.90	0.72
		2437	1.39	1.43	97.20	0.72
		2462	1.39	1.43	97.20	0.72
11N20SISO	Ant1	2412	1.30	1.34	97.01	0.77
		2437	1.30	1.34	97.01	0.77
		2462	1.30	1.34	97.01	0.77
11N40SISO	Ant1	2422	0.65	0.68	95.59	1.54
		2437	0.65	0.68	95.59	1.54
		2452	0.65	0.68	95.59	1.54



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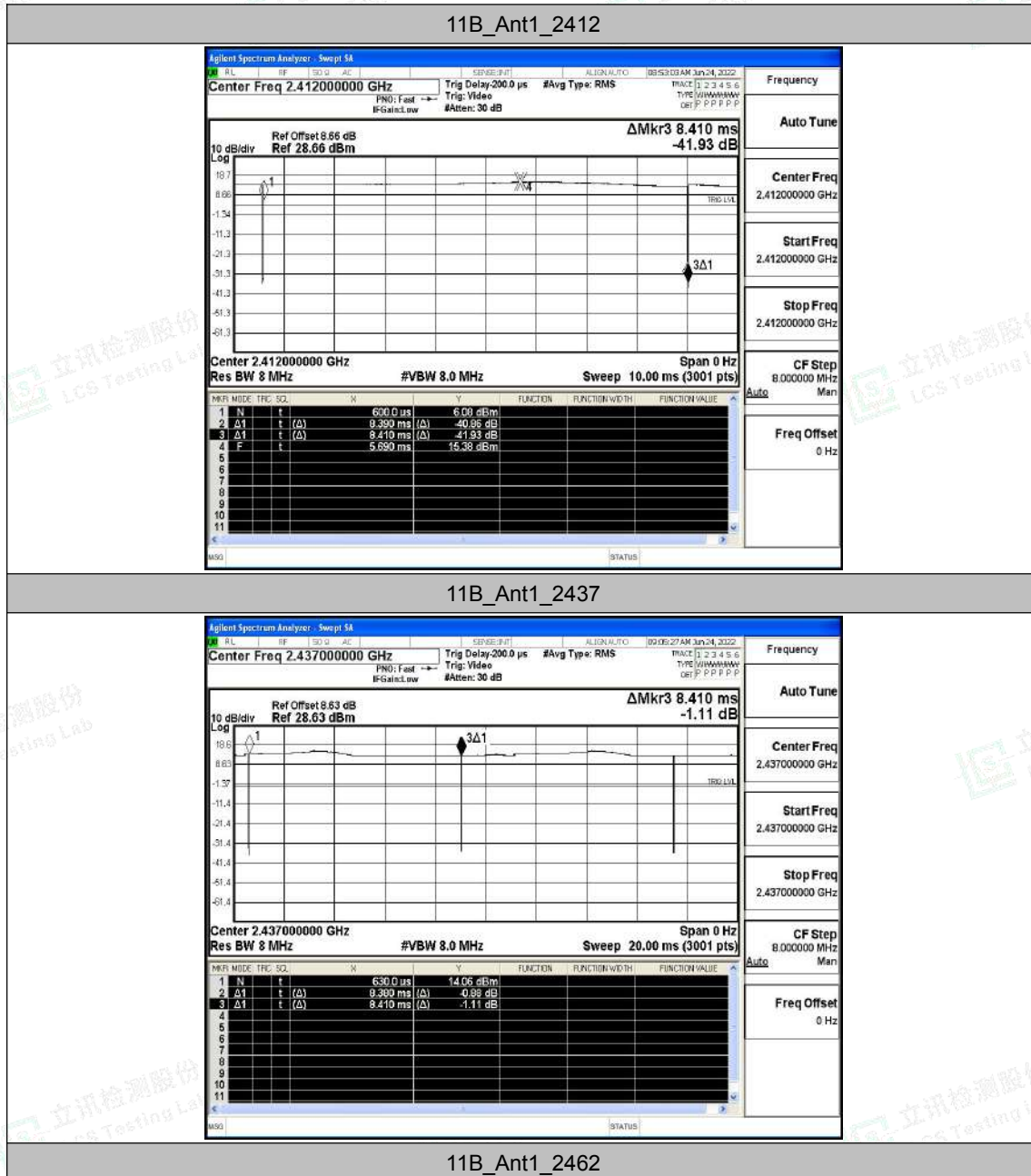
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Test Graphs

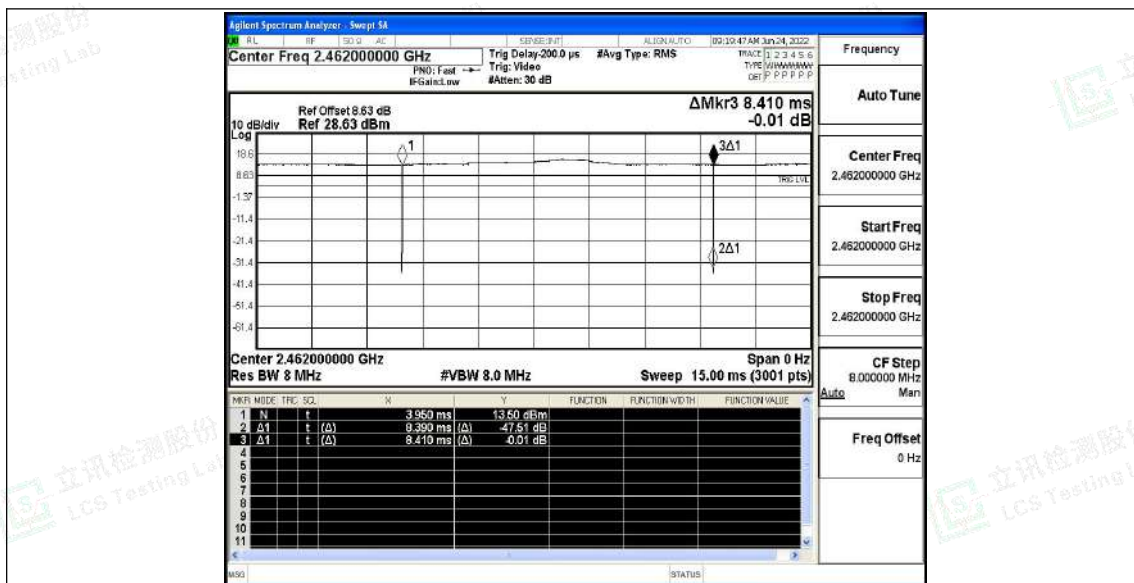


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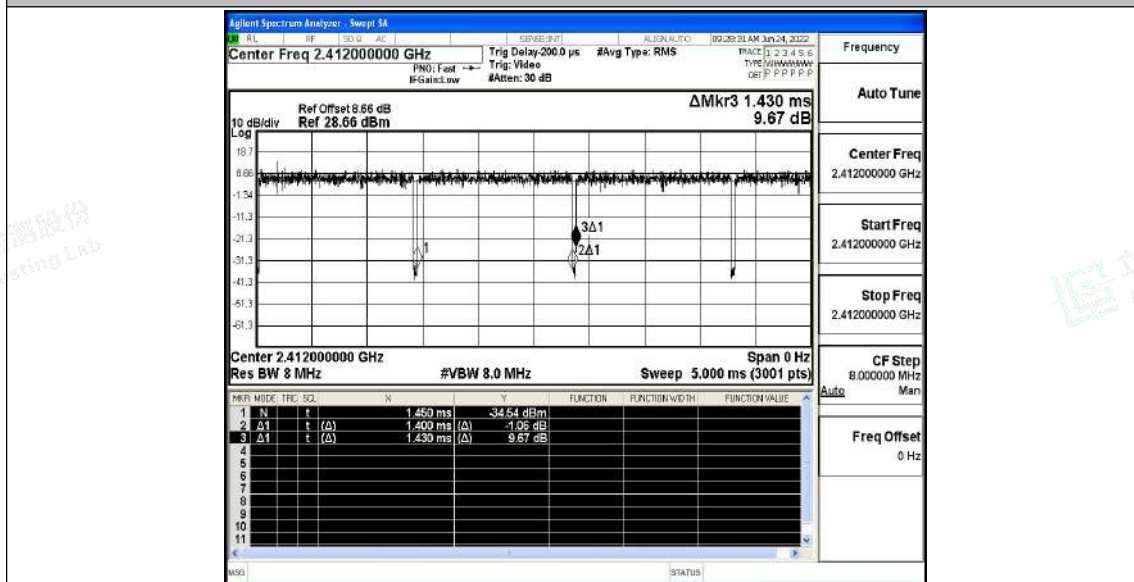
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11G_Ant1_2412



11G_Ant1_2437

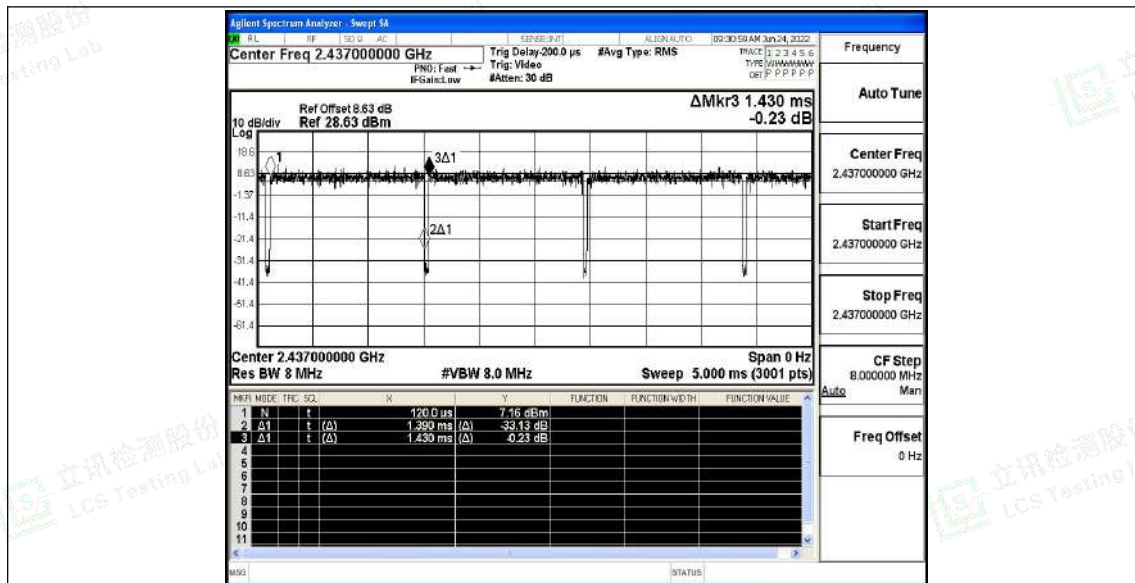


Shenzhen LCS Compliance Testing Laboratory Ltd.

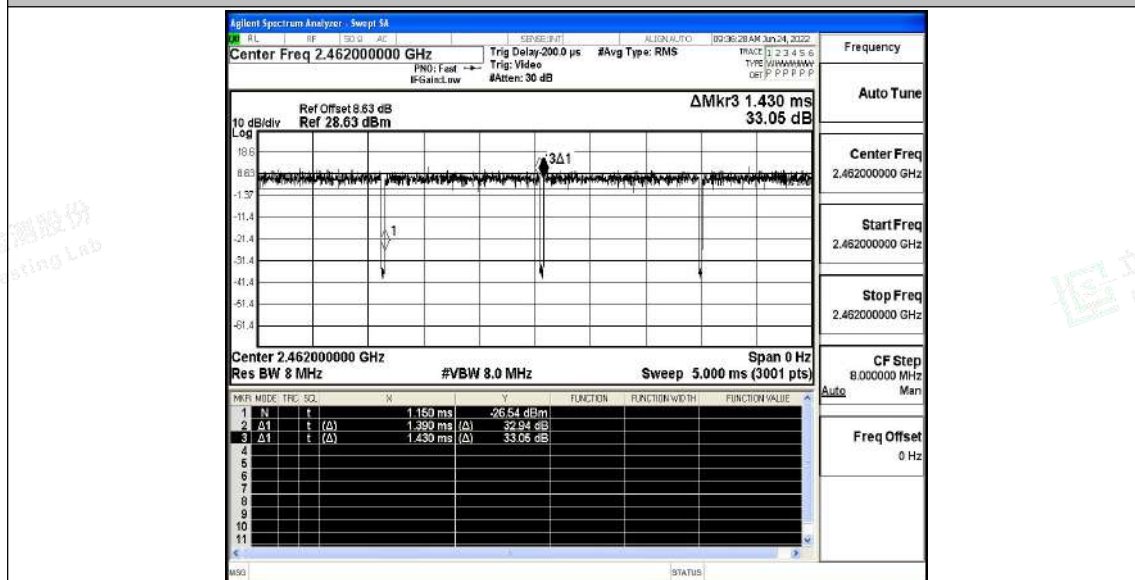
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11G_Ant1_2462



11N20SISO_Ant1_2412

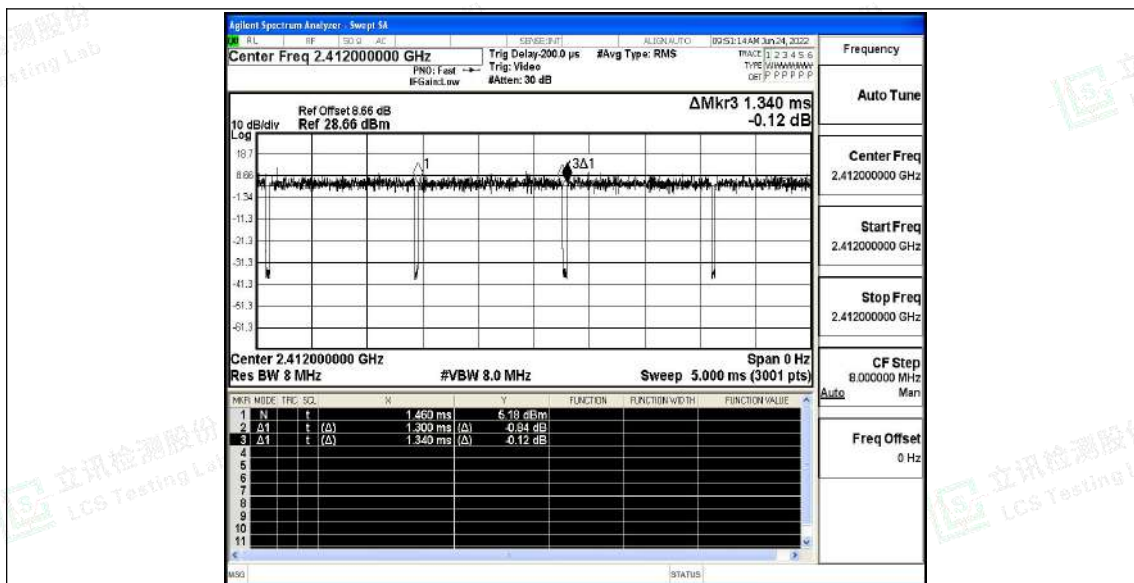


Shenzhen LCS Compliance Testing Laboratory Ltd.

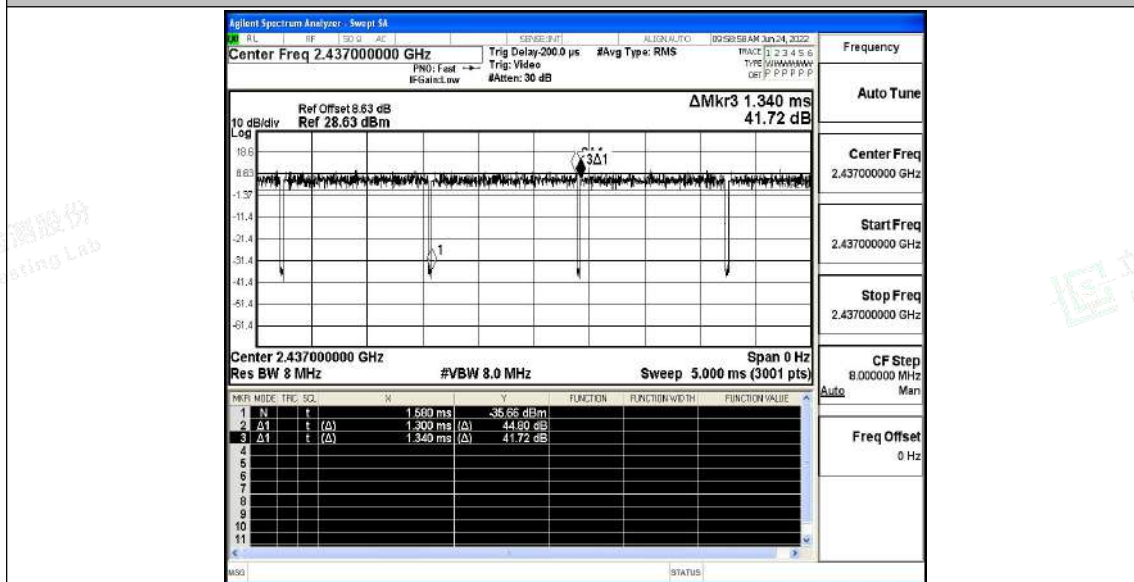
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

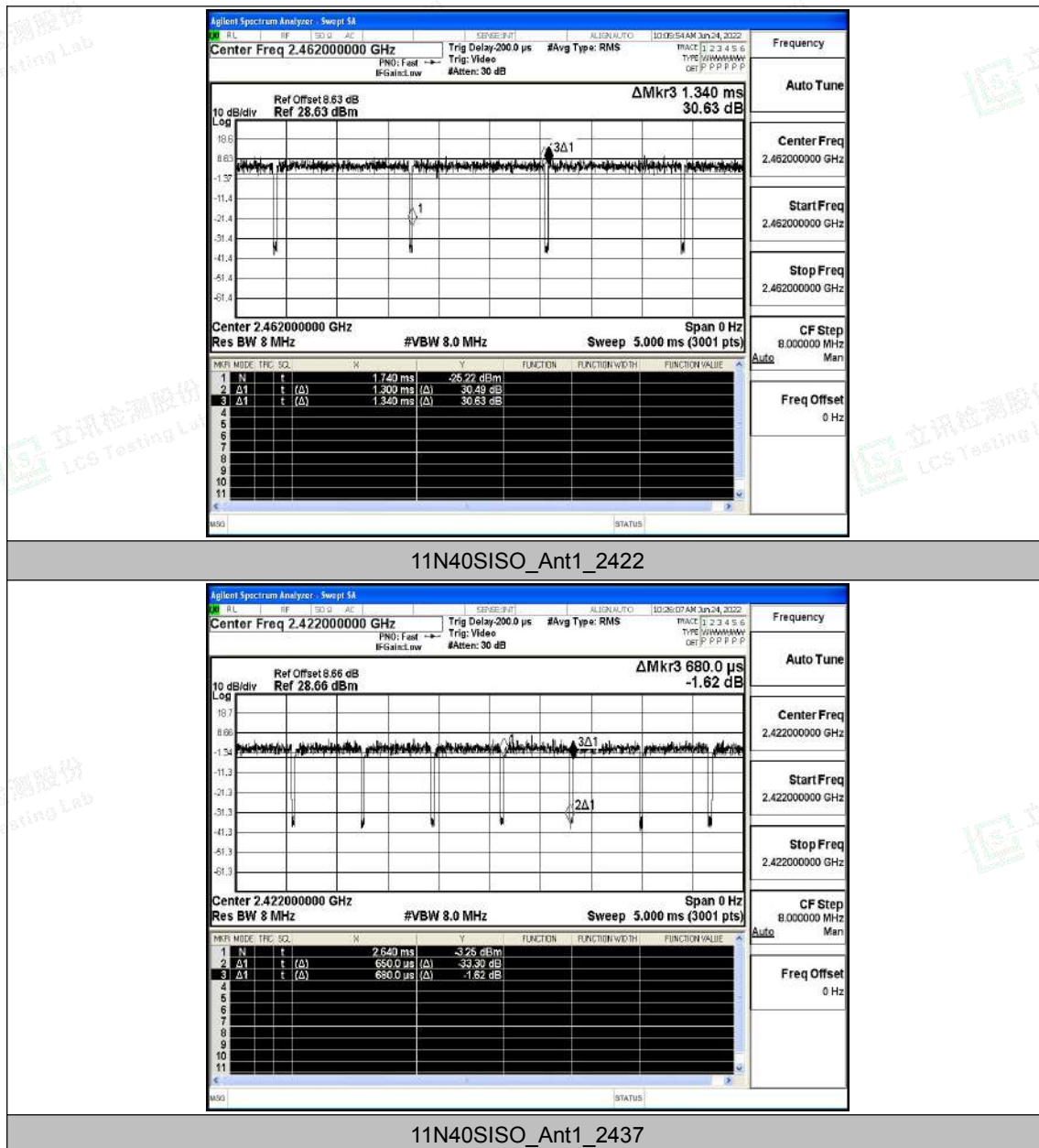


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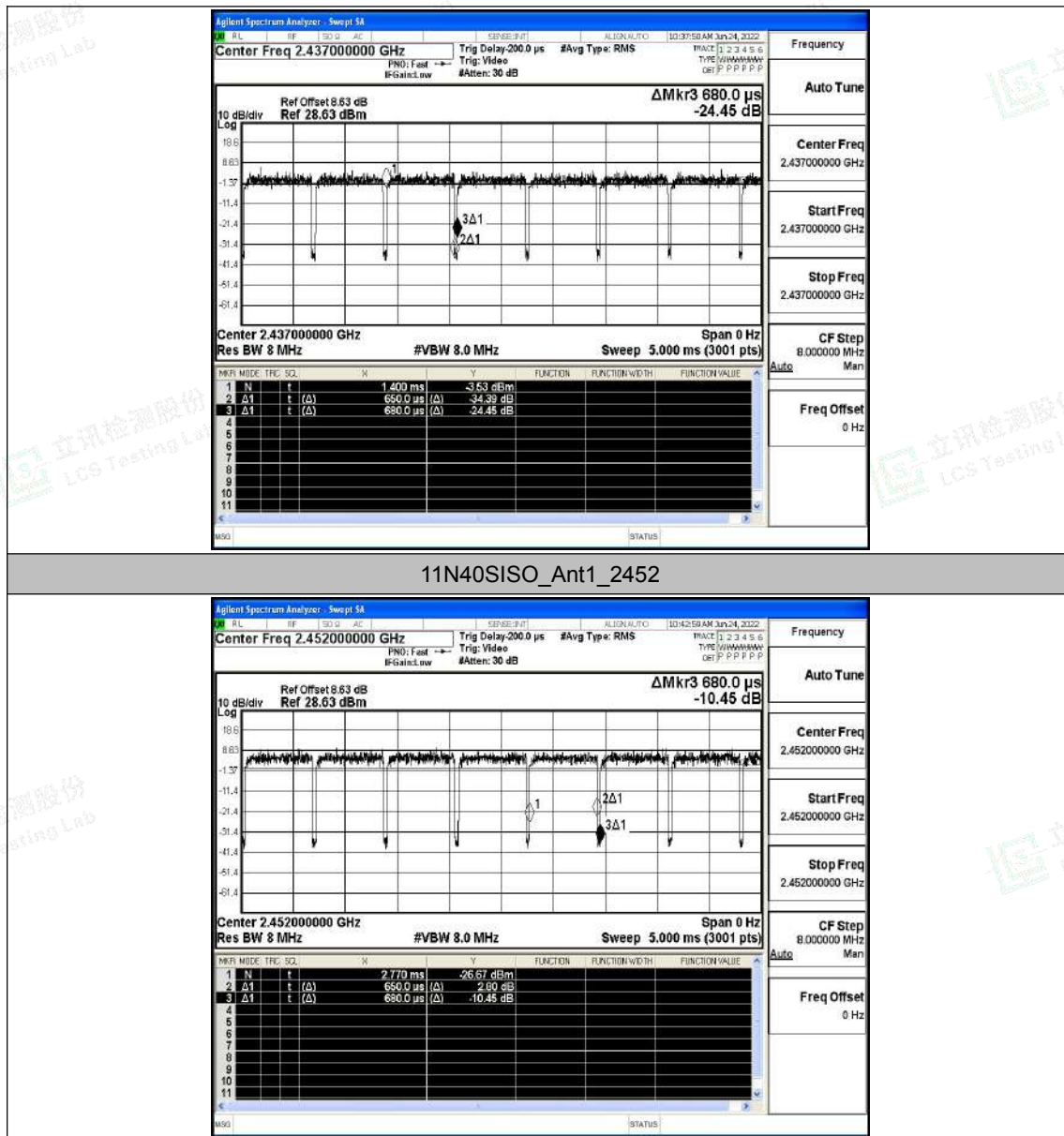


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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-58.71	≤-41.20	36.49	≤54	PASS
				AV	2389.310	-54.38	≤-41.20	40.82	≤54	PASS
				AV	2390.000	-54.4	≤-41.20	40.80	≤54	PASS
				Peak	2310.000	-48.22	≤-21.20	46.98	≤74	PASS
				Peak	2389.960	-43.31	≤-21.20	51.89	≤74	PASS
				Peak	2390.000	-43.31	≤-21.20	51.89	≤74	PASS
		High	2462	AV	2483.500	-45.3	≤-41.20	49.90	≤54	PASS
				AV	2483.560	-45.47	≤-41.20	49.73	≤54	PASS
				AV	2500.000	-55.69	≤-41.20	39.51	≤54	PASS
				Peak	2483.500	-40.44	≤-21.20	54.76	≤74	PASS
				Peak	2483.780	-39.48	≤-21.20	55.72	≤74	PASS
				Peak	2500.000	-44.98	≤-21.20	50.22	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-57.88	≤-41.20	37.32	≤54	PASS
				AV	2389.960	-53.15	≤-41.20	42.05	≤54	PASS
				AV	2390.000	-53.15	≤-41.20	42.05	≤54	PASS
				Peak	2310.000	-47.53	≤-21.20	47.67	≤74	PASS
				Peak	2389.960	-36.73	≤-21.20	58.47	≤74	PASS
				Peak	2390.000	-36.73	≤-21.20	58.47	≤74	PASS
		High	2462	AV	2483.500	-49.53	≤-41.20	45.67	≤54	PASS
				AV	2483.560	-48.77	≤-41.20	46.43	≤54	PASS
				AV	2500.000	-55.04	≤-41.20	40.16	≤54	PASS
				Peak	2483.500	-33.39	≤-21.20	61.81	≤74	PASS
				Peak	2484.110	-32.2	≤-21.20	63.00	≤74	PASS
				Peak	2500.000	-44.46	≤-21.20	50.74	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-57.97	≤-41.20	37.23	≤54	PASS
				AV	2389.960	-53.55	≤-41.20	41.65	≤54	PASS
				AV	2390.000	-53.55	≤-41.20	41.65	≤54	PASS
				Peak	2310.000	-48.05	≤-21.20	47.15	≤74	PASS
				Peak	2389.960	-37.26	≤-21.20	57.94	≤74	PASS
				Peak	2390.000	-37.26	≤-21.20	57.94	≤74	PASS
		High	2462	AV	2483.500	-51.39	≤-41.20	43.81	≤54	PASS
				AV	2483.780	-51.44	≤-41.20	43.76	≤54	PASS
				AV	2500.000	-55.59	≤-41.20	39.61	≤54	PASS
				Peak	2483.500	-34.76	≤-21.20	60.44	≤74	PASS
				Peak	2484.770	-33.45	≤-21.20	61.75	≤74	PASS



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11N40SIS O	Ant1	Low	2422	Peak	2500.000	-45.68	≤ -21.20	49.52	≤ 74	PASS
				AV	2310.000	-58.06	≤ -41.20	37.14	≤ 54	PASS
				AV	2389.700	-52.51	≤ -41.20	42.69	≤ 54	PASS
				AV	2390.000	-52.51	≤ -41.20	42.69	≤ 54	PASS
				Peak	2310.000	-47.54	≤ -21.20	47.66	≤ 74	PASS
				Peak	2389.050	-34.42	≤ -21.20	60.78	≤ 74	PASS
				Peak	2390.000	-36.22	≤ -21.20	58.98	≤ 74	PASS
		High	2452	AV	2483.500	-49.23	≤ -41.20	45.97	≤ 54	PASS
				AV	2484.330	-48.98	≤ -41.20	46.22	≤ 54	PASS
				AV	2500.000	-54.41	≤ -41.20	40.79	≤ 54	PASS
				Peak	2483.500	-31.71	≤ -21.20	63.49	≤ 74	PASS
				Peak	2484.990	-30.95	≤ -21.20	64.25	≤ 74	PASS
				Peak	2500.000	-41.95	≤ -21.20	53.25	≤ 74	PASS

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.



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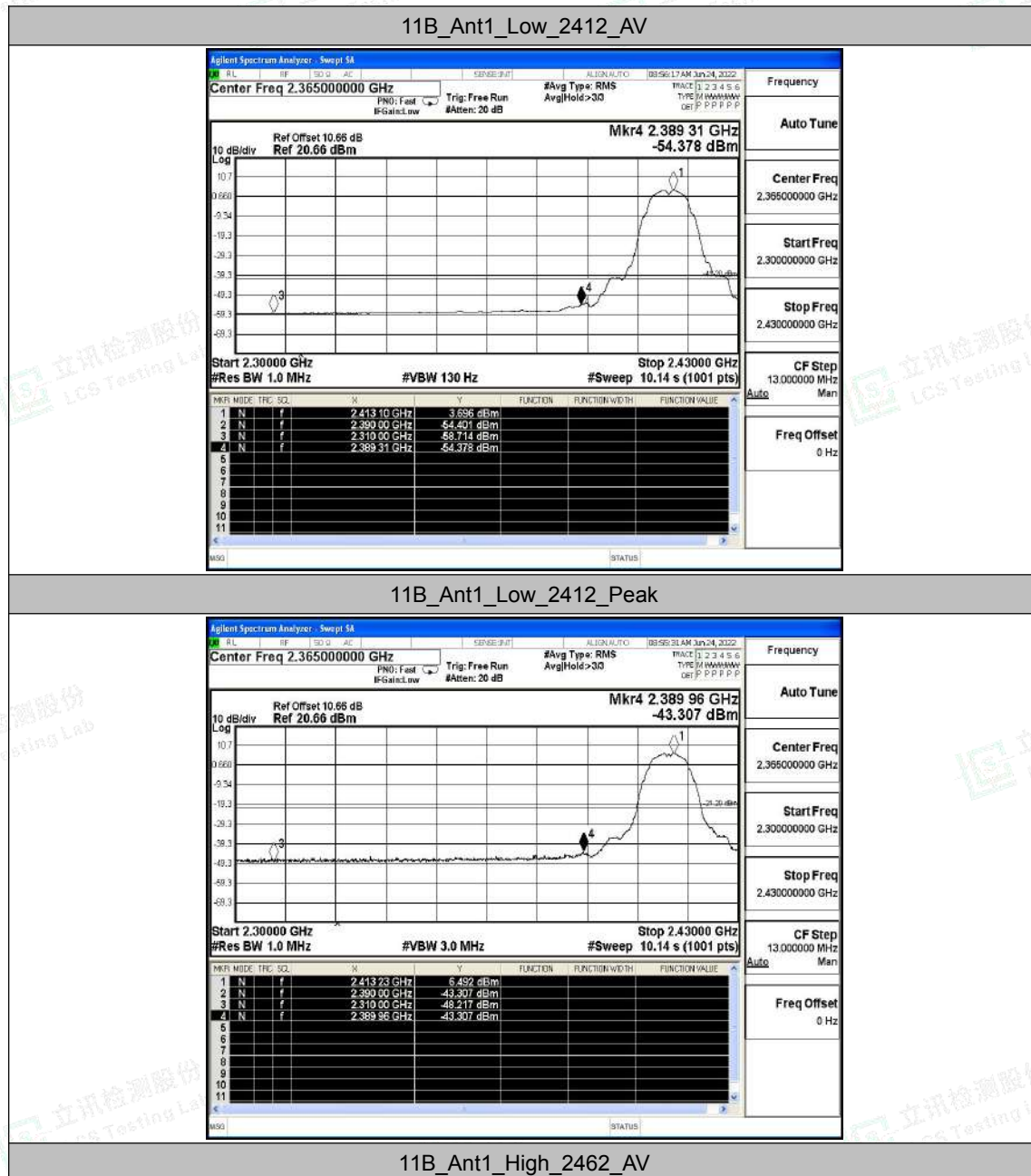
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Test Graphs

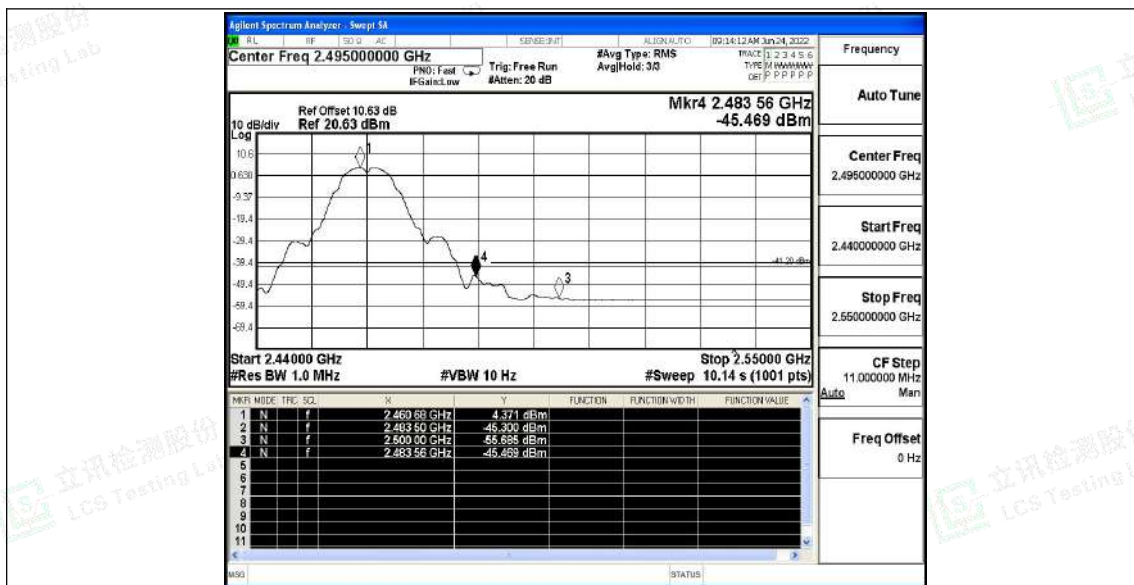


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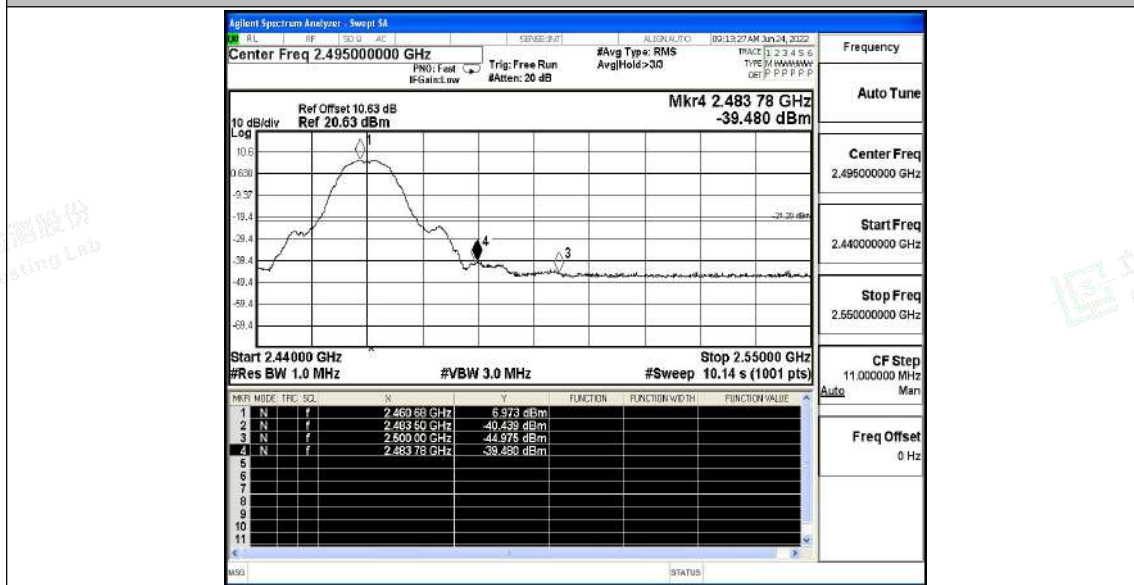
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11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV

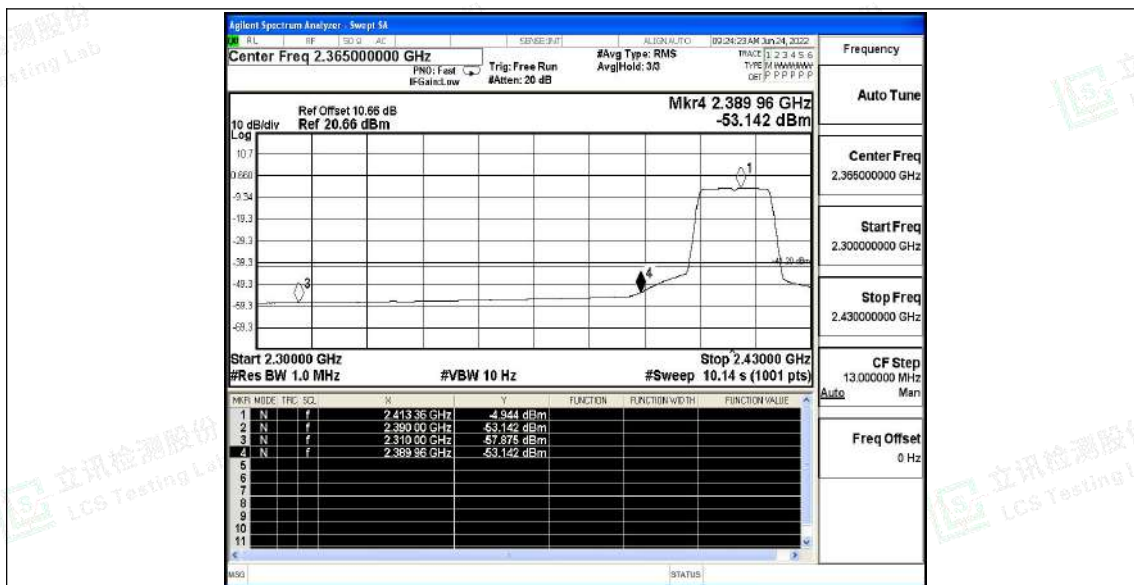


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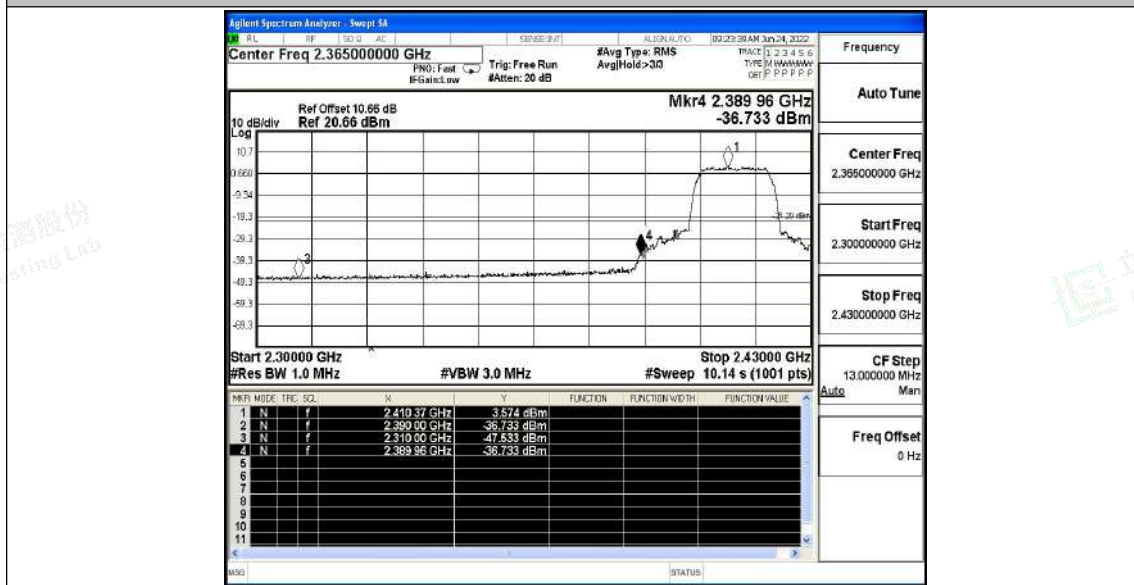
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV

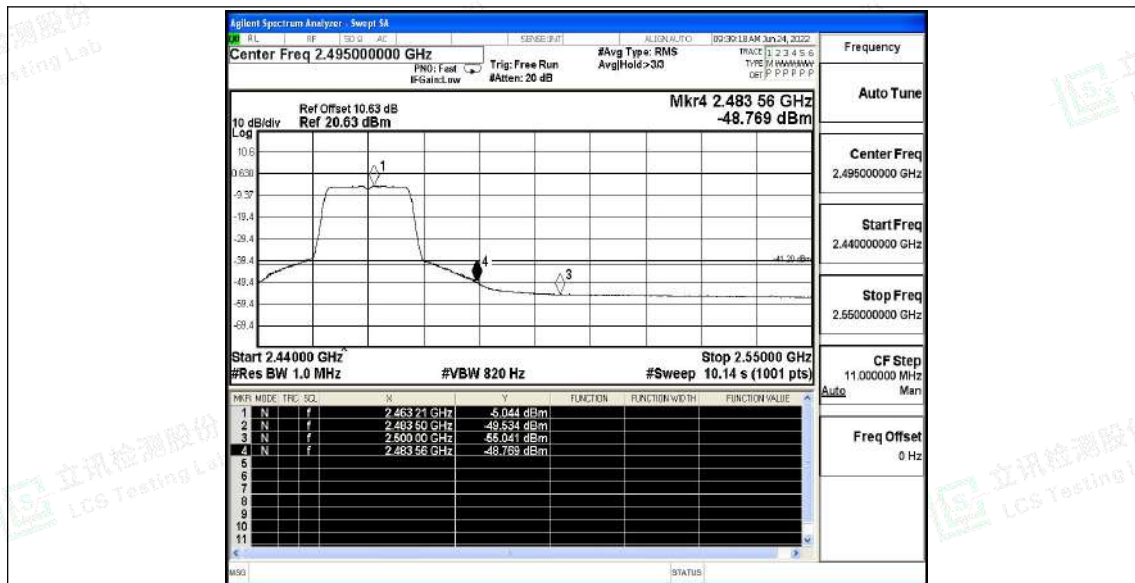


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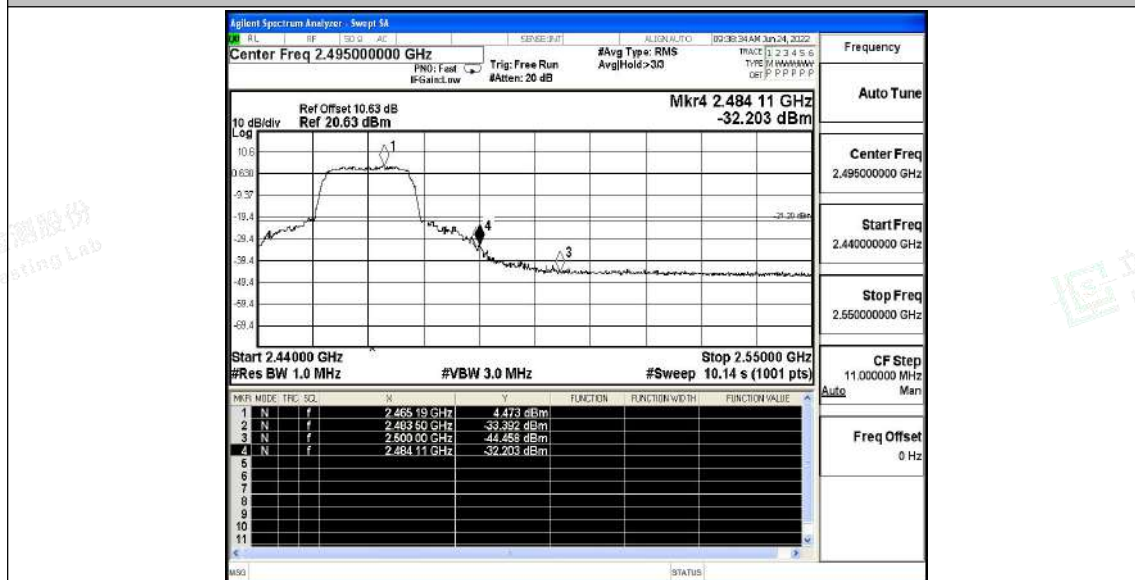
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11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

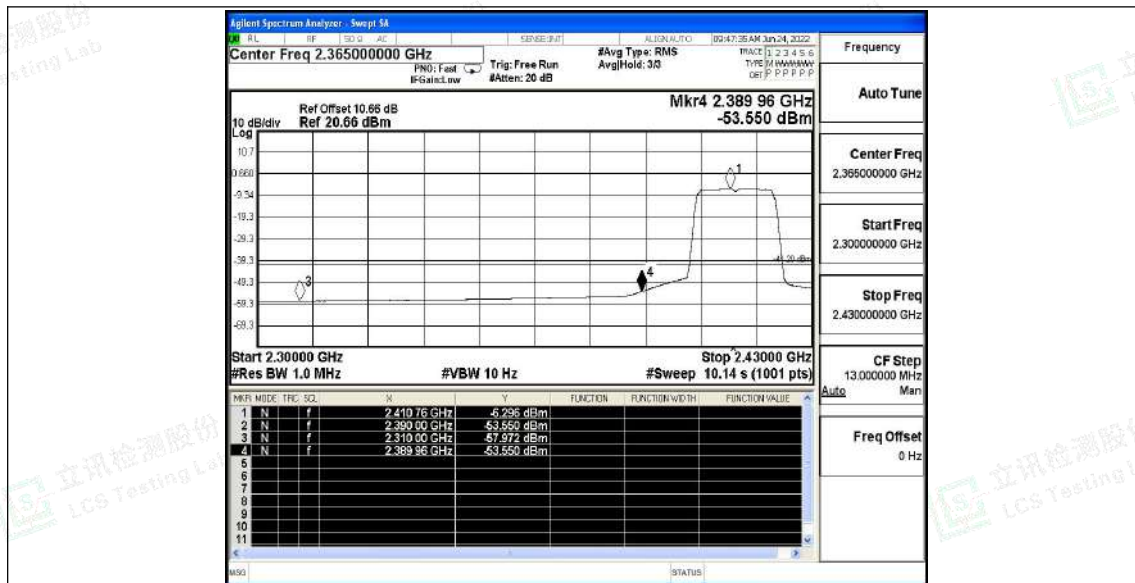


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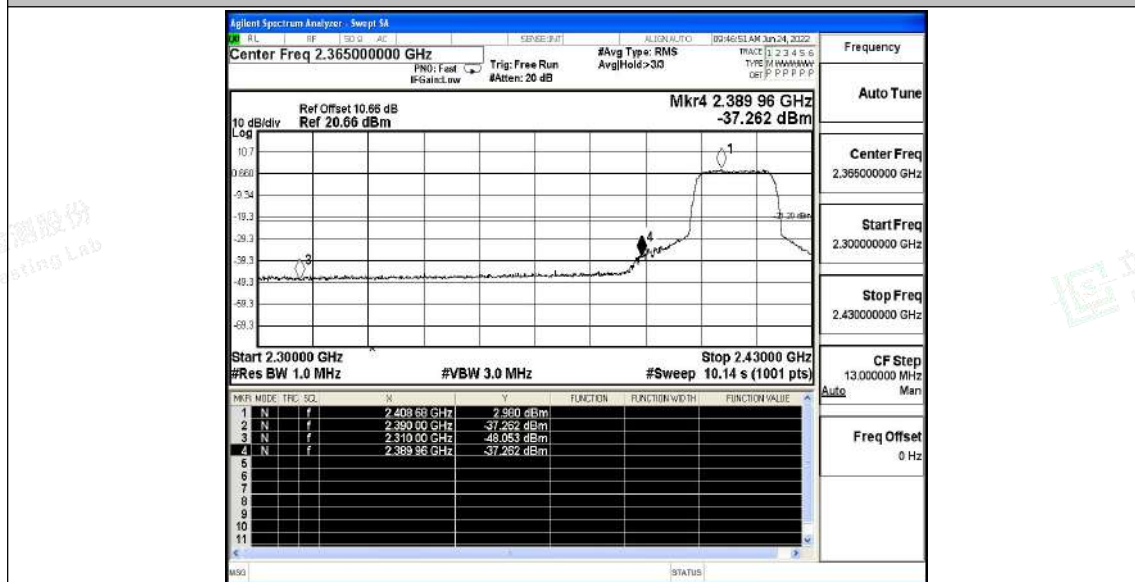
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11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV

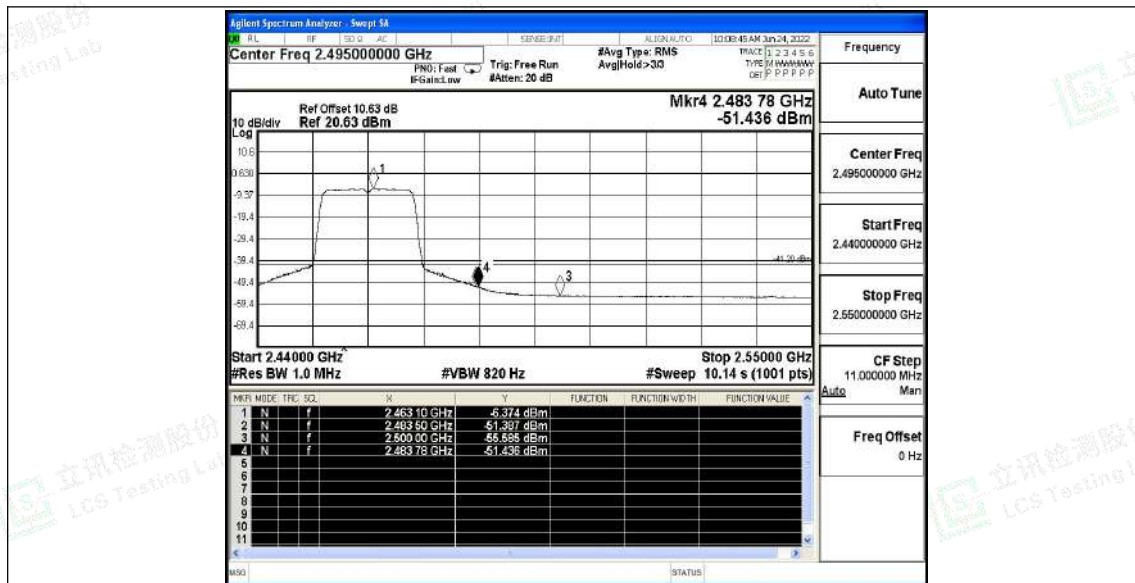


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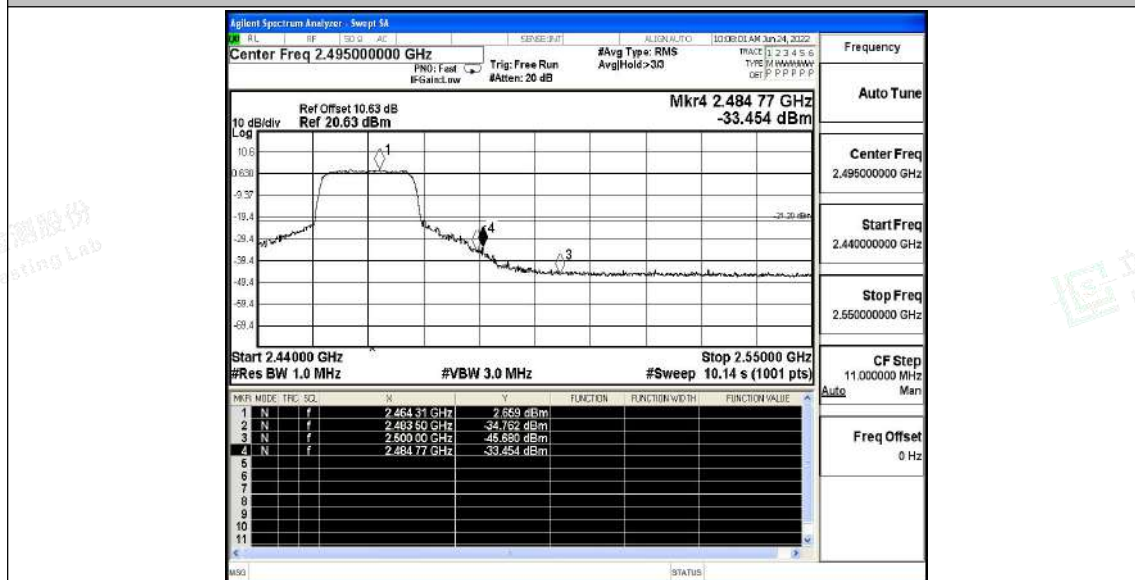
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV

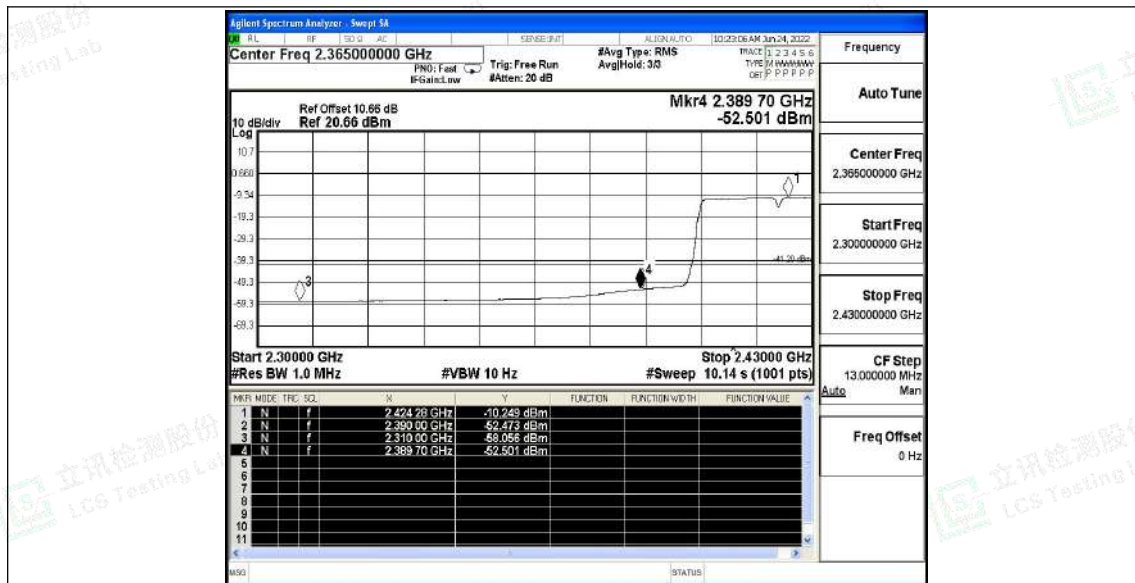


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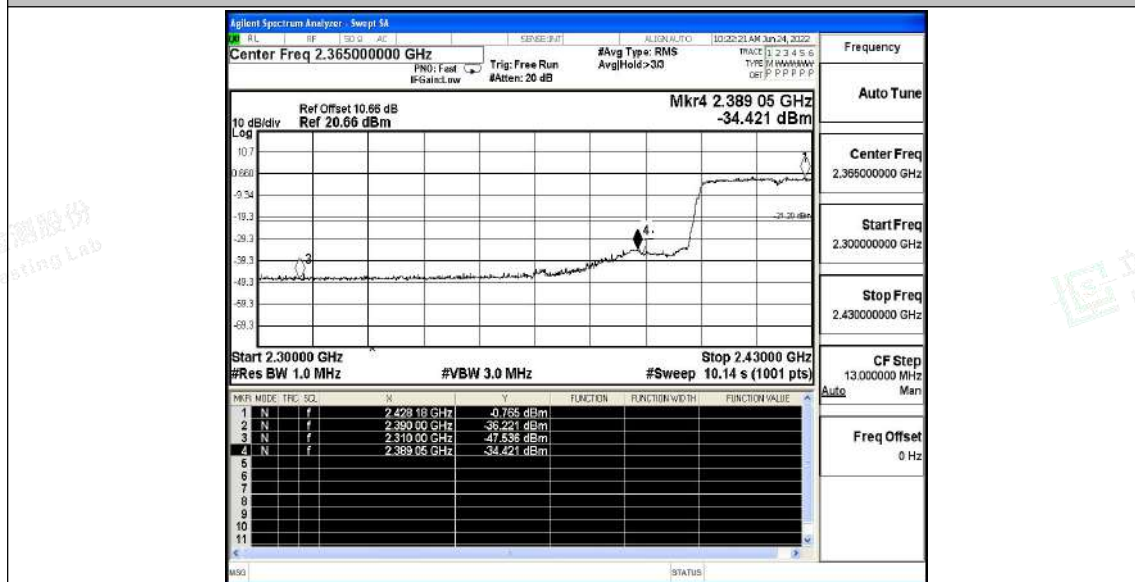
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

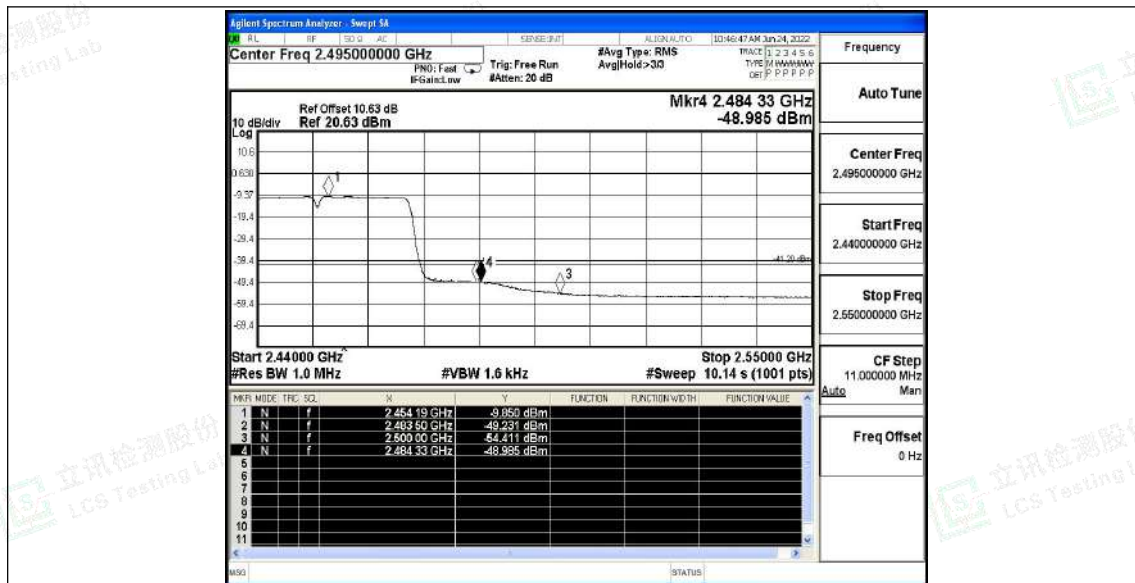


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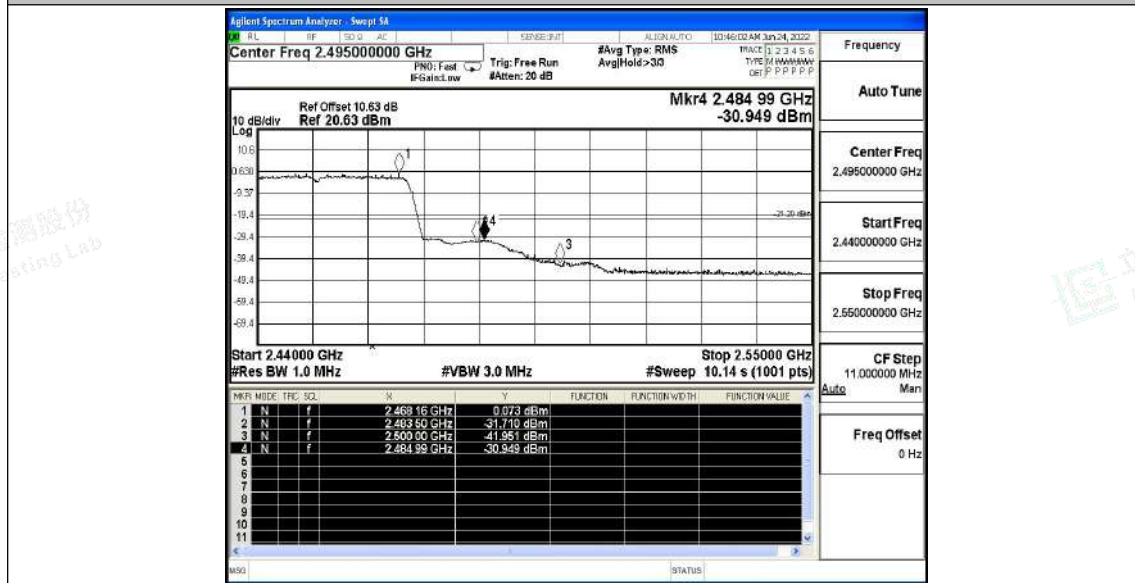
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_High_2452_Peak



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