



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: 6 inch Wi-Fi/BLE Recessed Down Light with Back Light

Test Model: LJD006SMG2WH

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





B.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.000	2407.520	2416.520	0.5	PASS
		2437	9.080	2432.440	2441.520	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	16.320	2403.840	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	17.600	2403.200	2420.800	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	36.080	2404.080	2440.160	0.5	PASS
		2437	35.760	2419.080	2454.840	0.5	PASS
		2452	35.680	2434.240	2469.920	0.5	PASS



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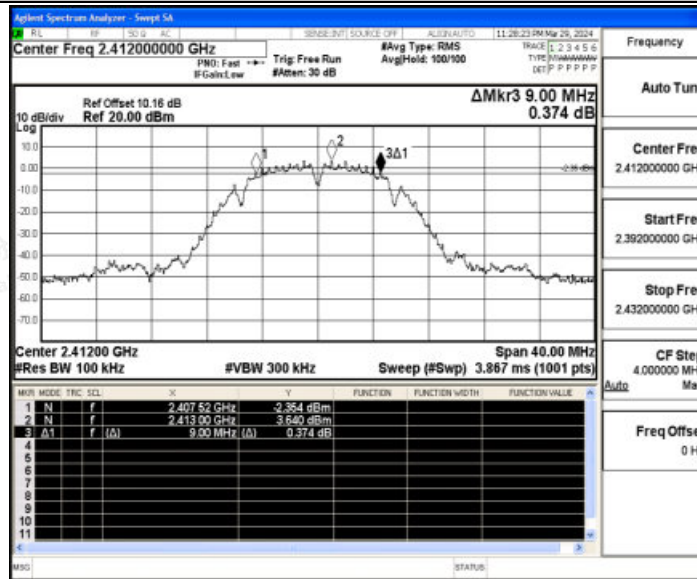
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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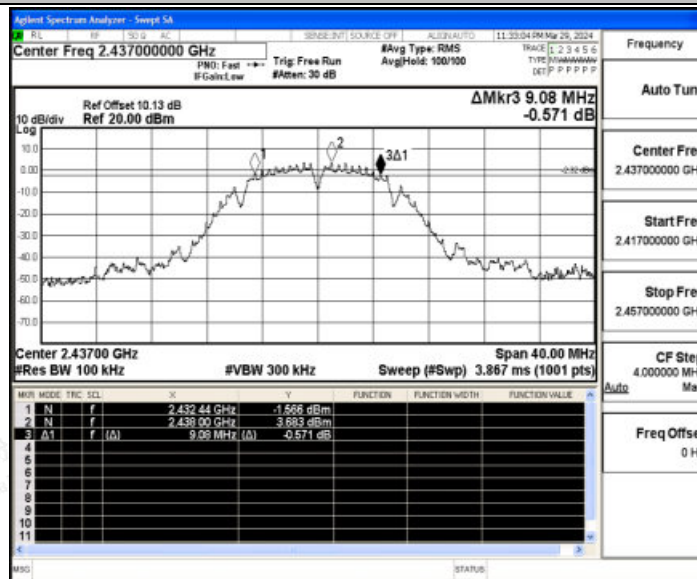


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

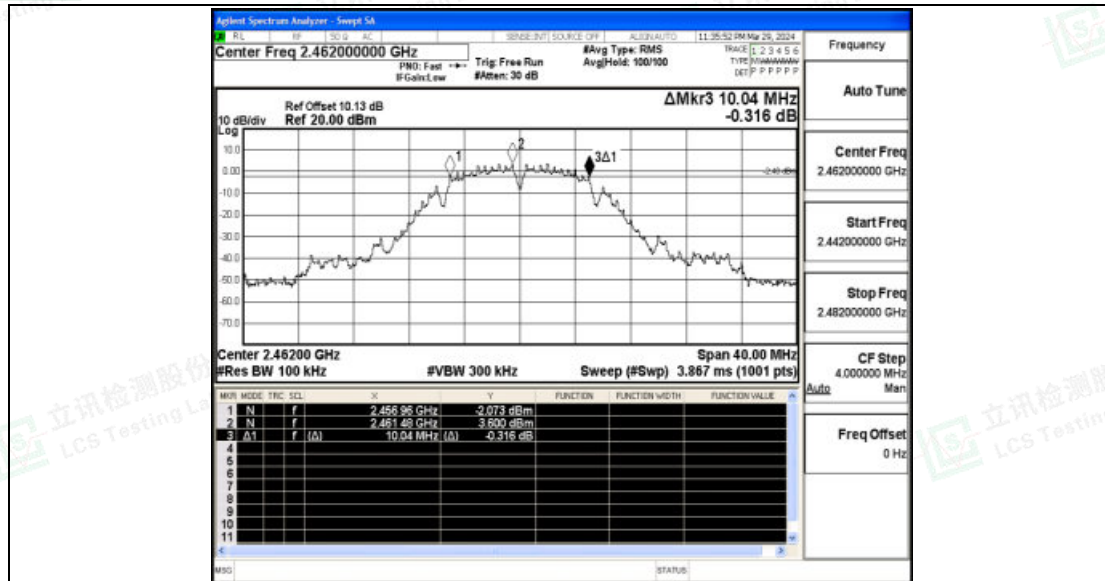


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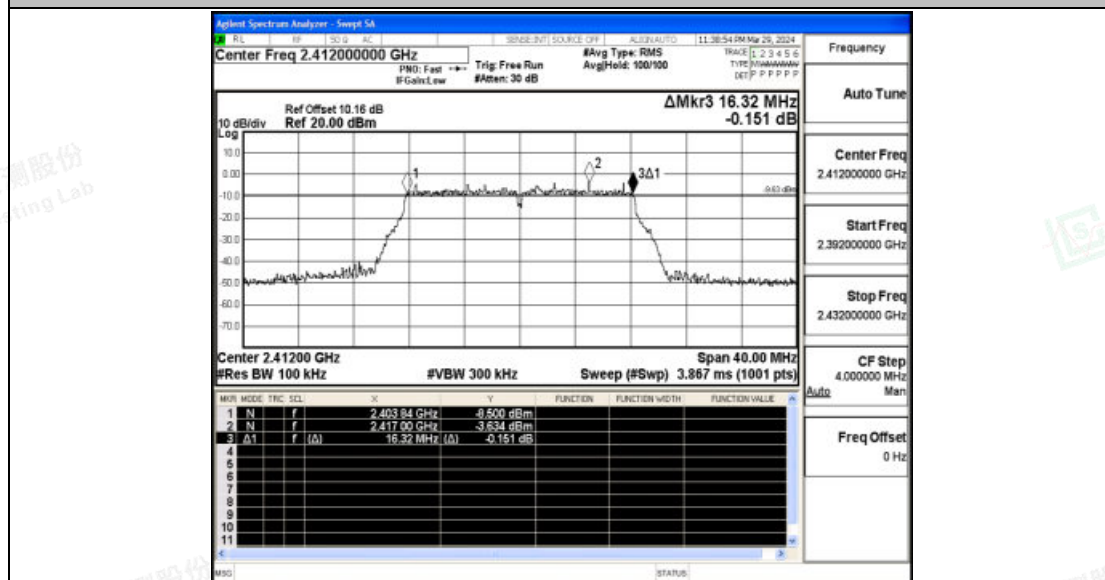
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11G_Ant1_2412



11G_Ant1_2437

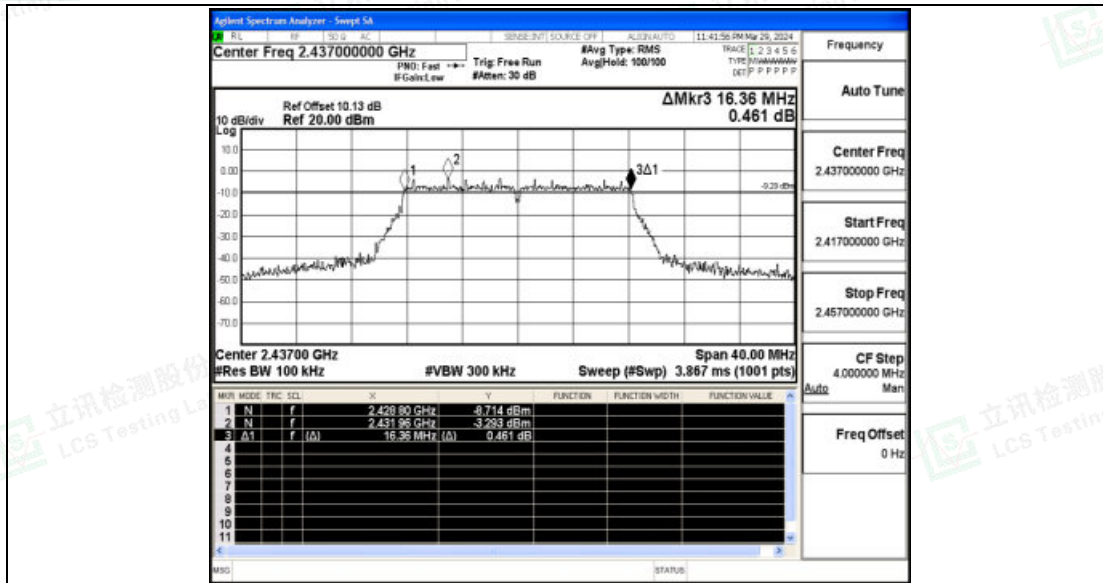


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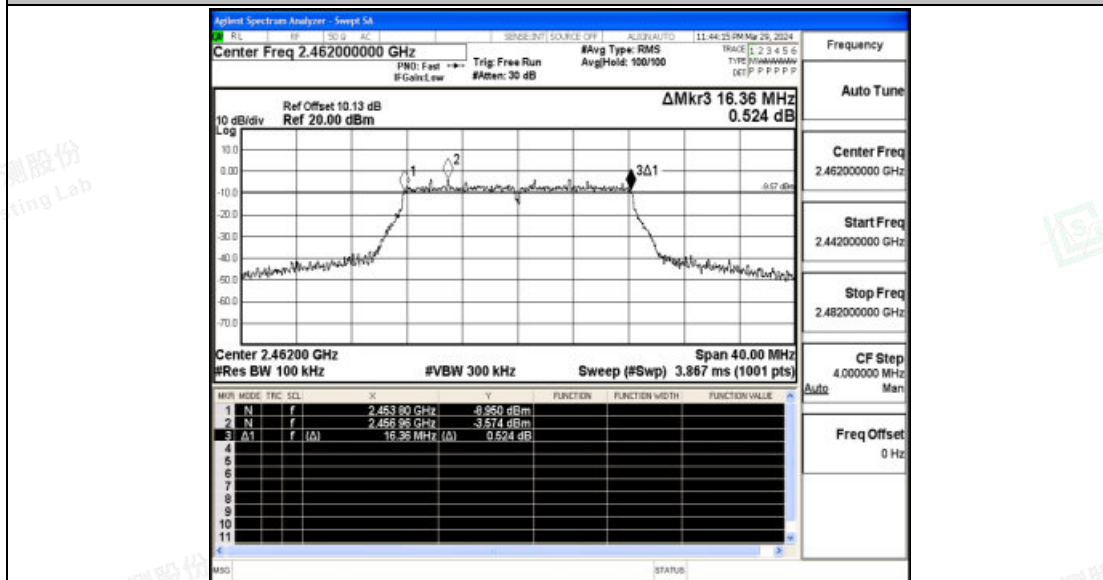
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11G_Ant1_2462



11N20SISO_Ant1_2412

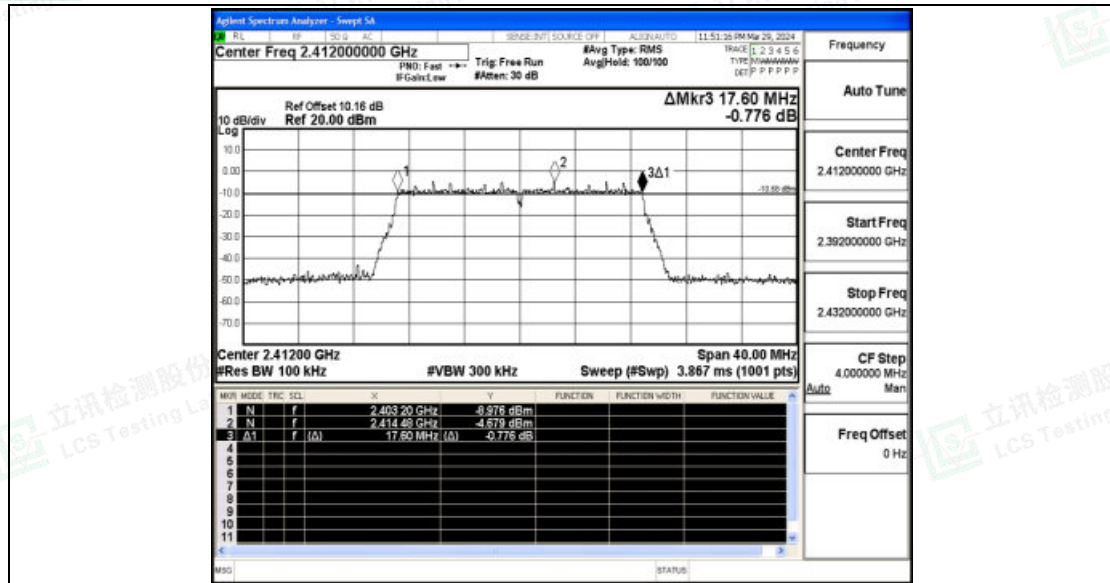


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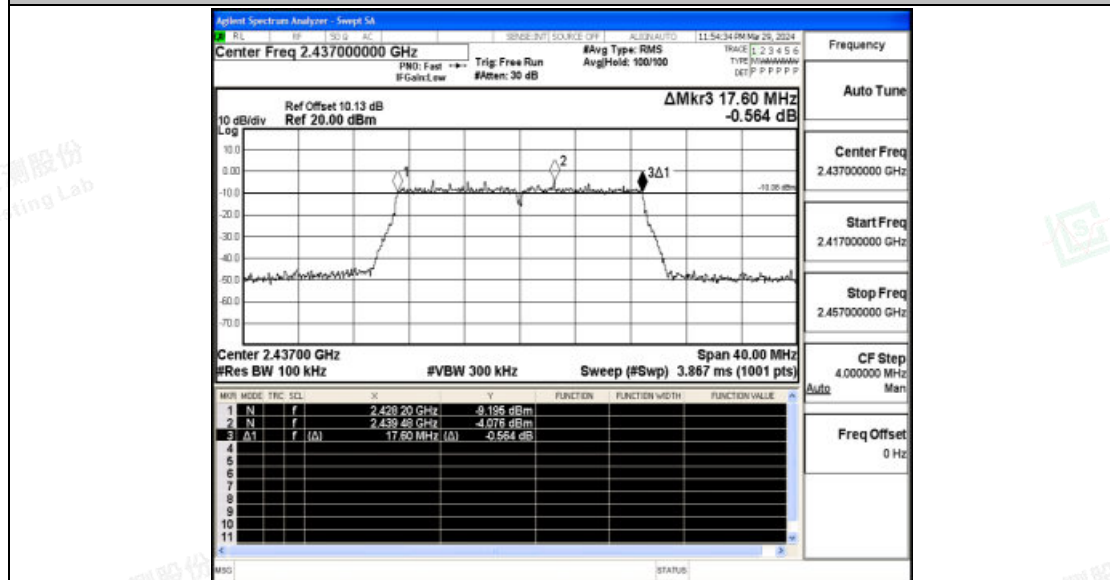
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

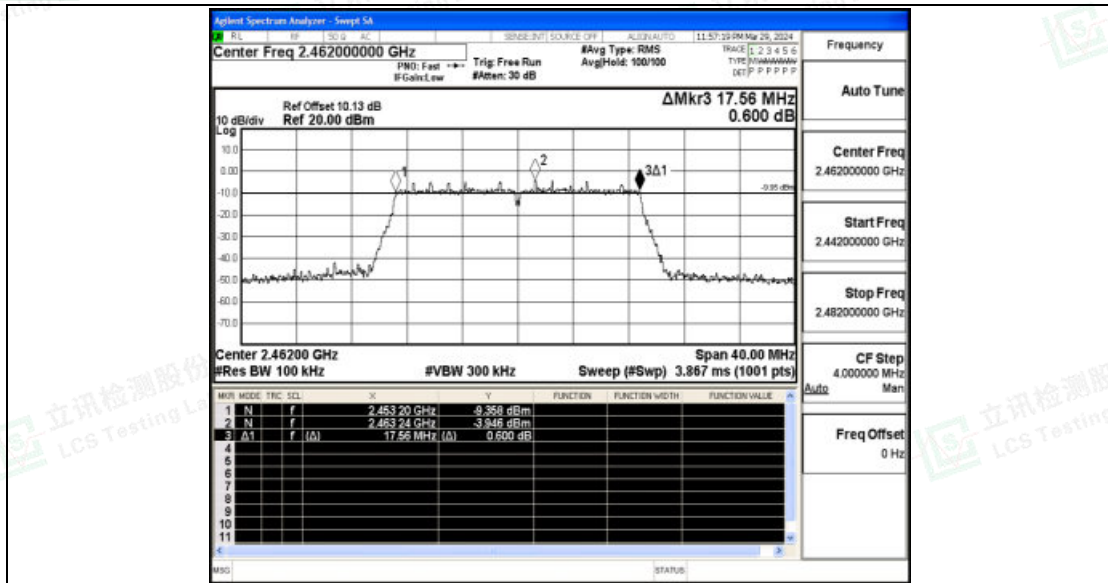


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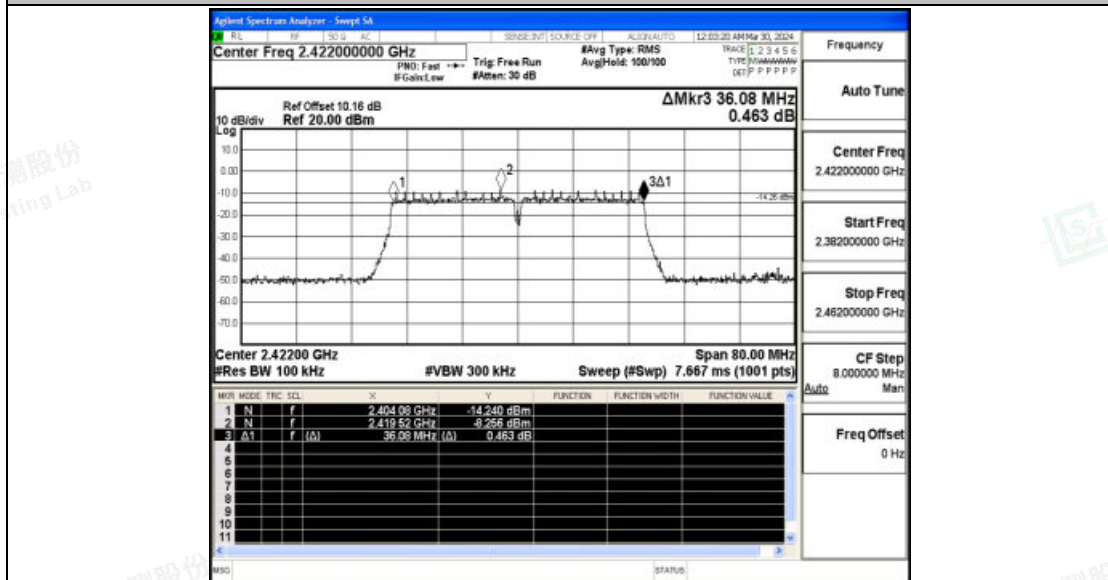
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

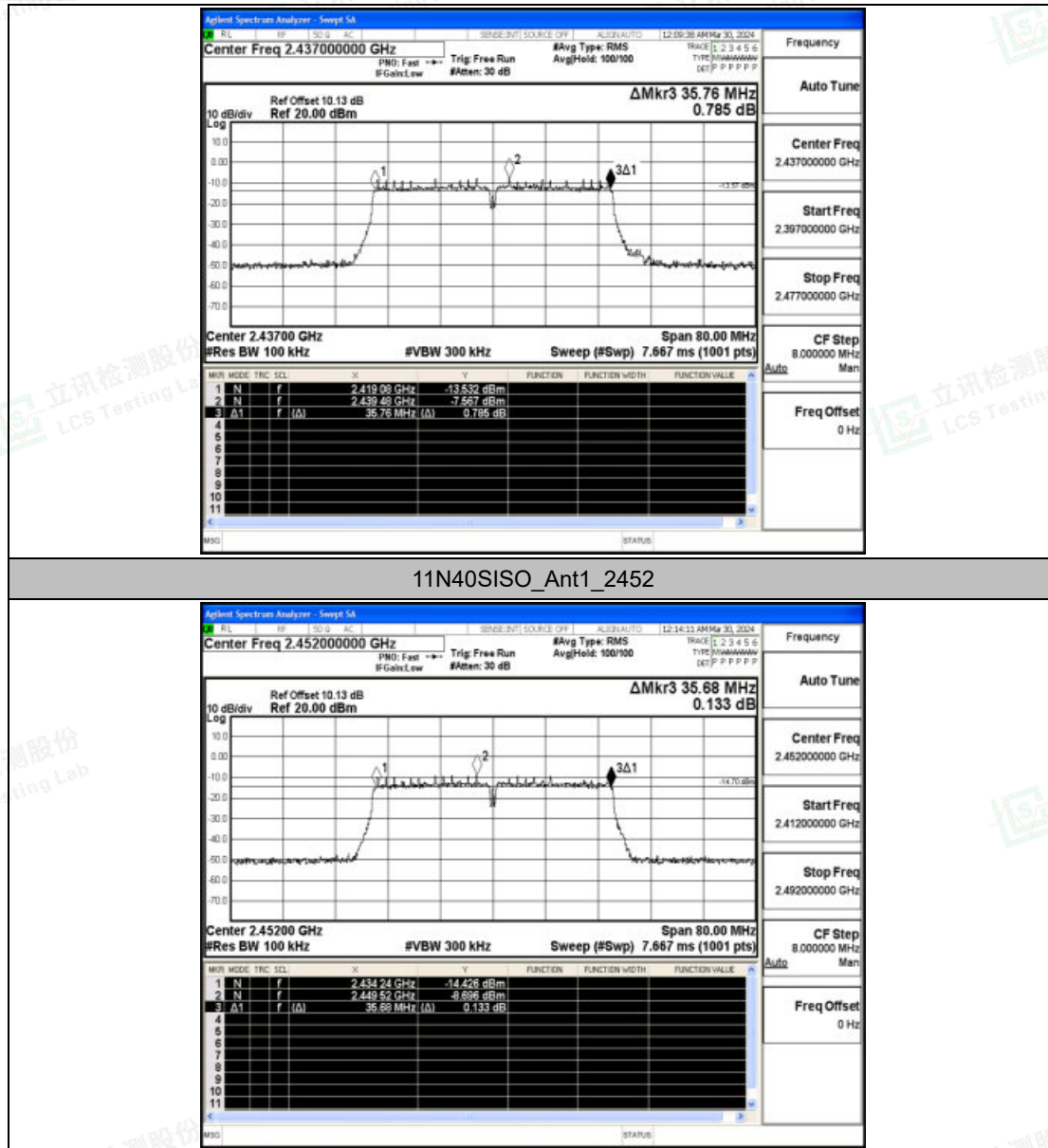


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B.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	15.20	≤30.00	PASS
		2437	---	15.27	≤30.00	PASS
		2462	---	15.59	≤30.00	PASS
11G	Ant1	2412	---	14.10	≤30.00	PASS
		2437	---	14.61	≤30.00	PASS
		2462	---	14.34	≤30.00	PASS
11N20SISO	Ant1	2412	---	13.27	≤30.00	PASS
		2437	---	13.94	≤30.00	PASS
		2462	---	13.53	≤30.00	PASS
11N40SISO	Ant1	2422	---	12.09	≤30.00	PASS
		2437	---	12.78	≤30.00	PASS
		2452	---	11.66	≤30.00	PASS



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B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Gain [dBi]	EIRP [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-9.53	≤8.00	0.00	-9.53	---	PASS
		2437	-9.49	≤8.00	0.00	-9.49	---	PASS
		2462	-9.30	≤8.00	0.00	-9.30	---	PASS
11G	Ant1	2412	-17.75	≤8.00	0.00	-17.75	---	PASS
		2437	-16.85	≤8.00	0.00	-16.85	---	PASS
		2462	-17.44	≤8.00	0.00	-17.44	---	PASS
11N20SISO	Ant1	2412	-17.74	≤8.00	0.00	-17.74	---	PASS
		2437	-17.16	≤8.00	0.00	-17.16	---	PASS
		2462	-18.18	≤8.00	0.00	-18.18	---	PASS
11N40SISO	Ant1	2422	-21.85	≤8.00	0.00	-21.85	---	PASS
		2437	-21.21	≤8.00	0.00	-21.21	---	PASS
		2452	-19.26	≤8.00	0.00	-19.26	---	PASS



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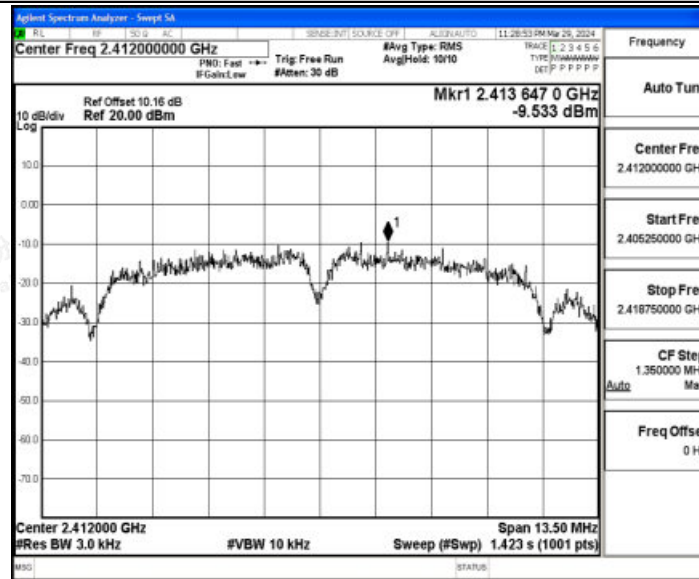
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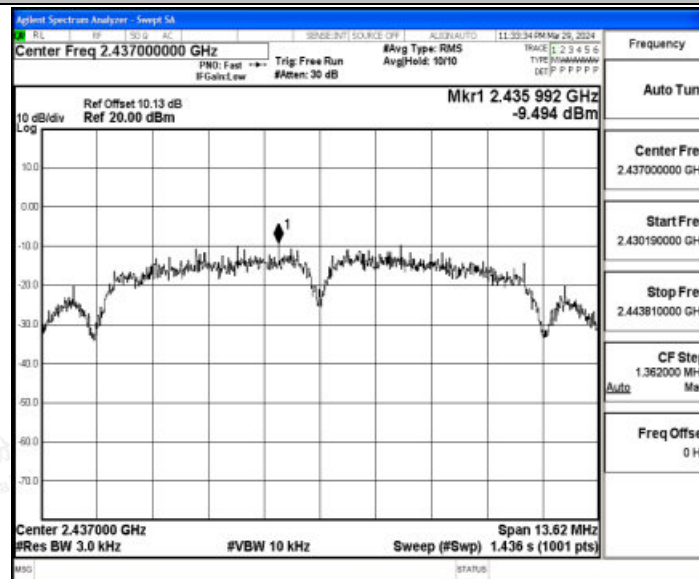


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

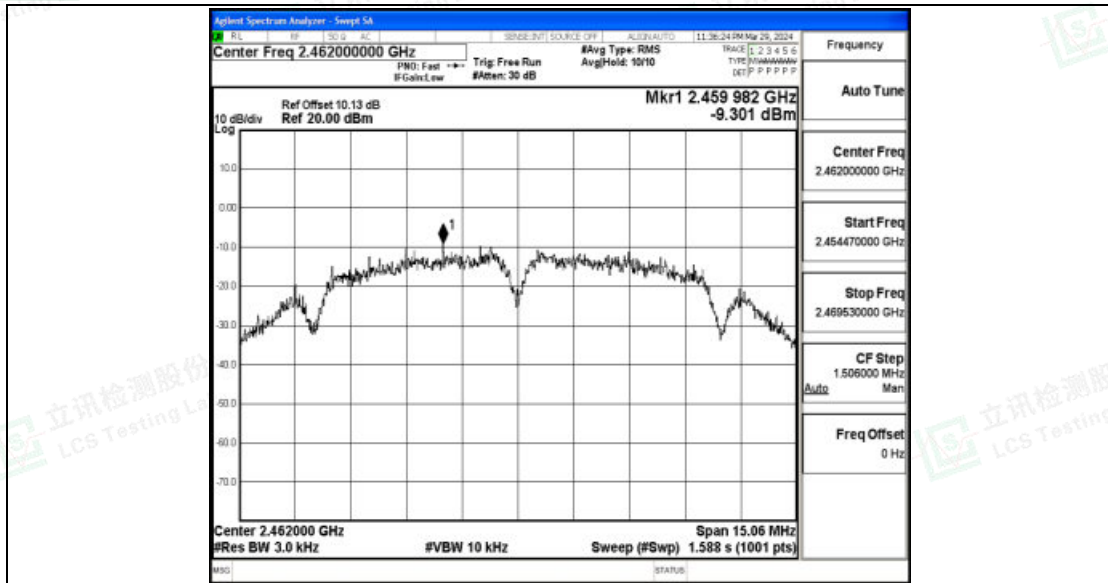


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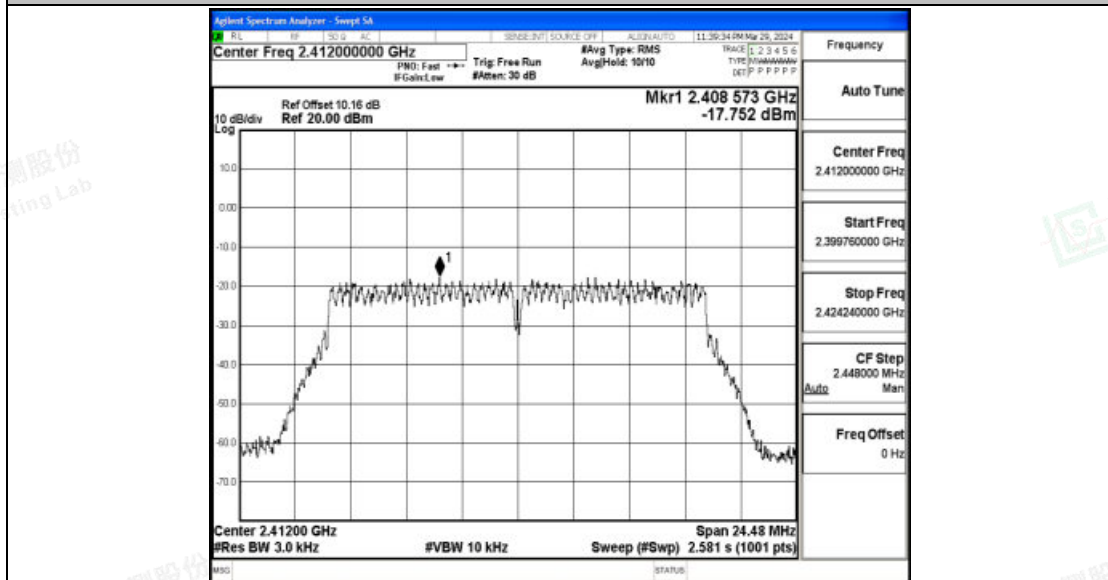
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11G_Ant1_2412



11G_Ant1_2437

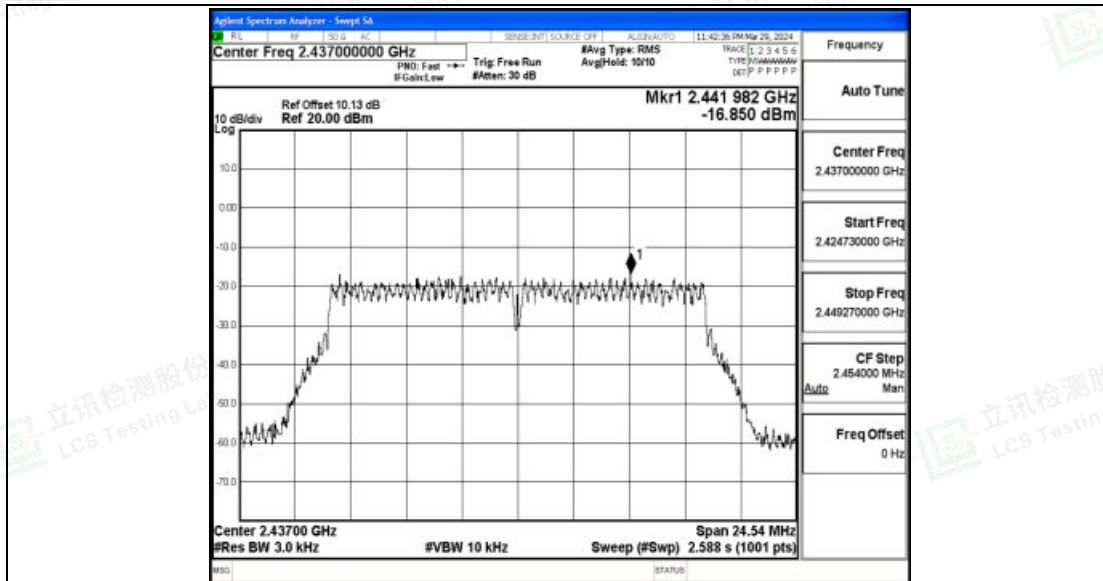


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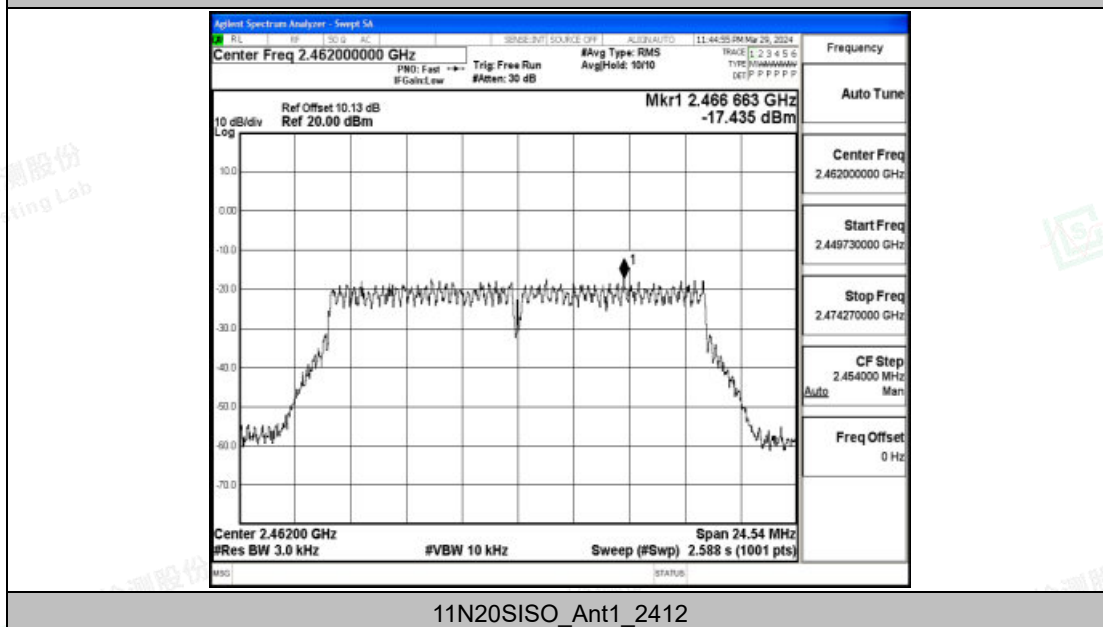
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11G_Ant1_2462



11N20SISO_Ant1_2412

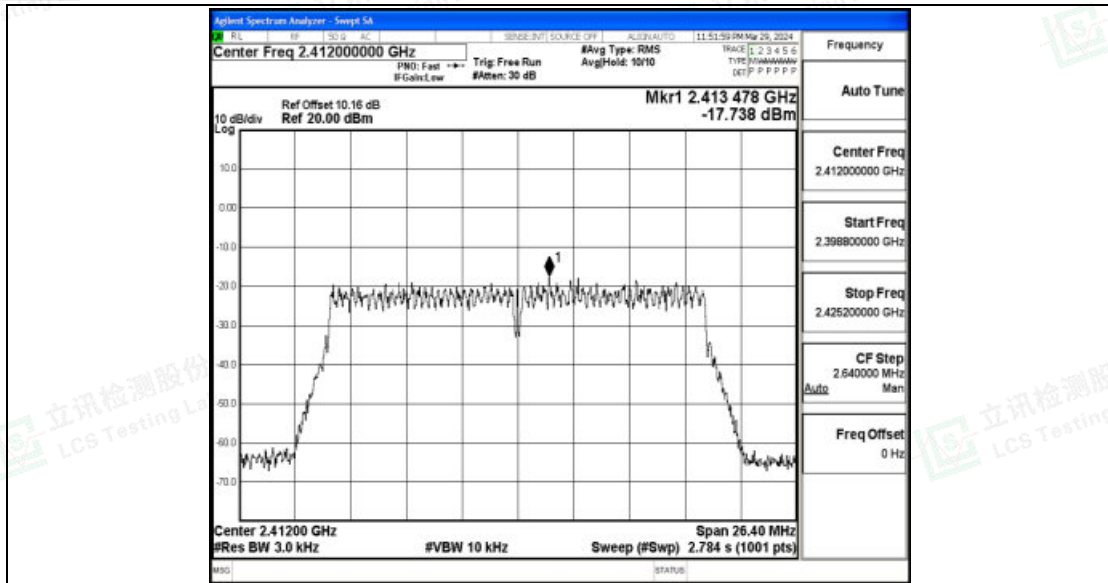


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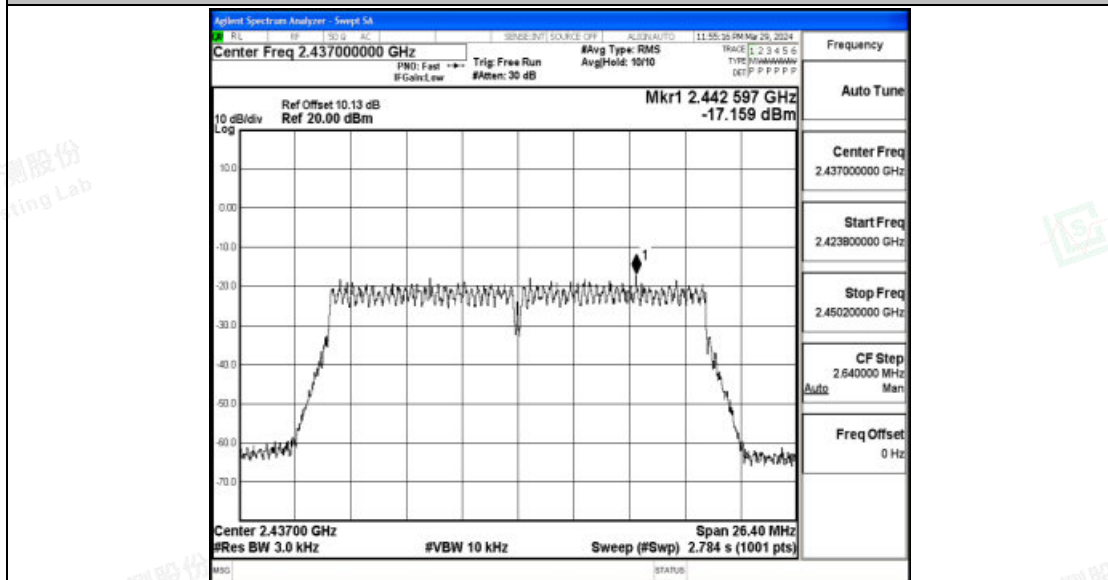
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

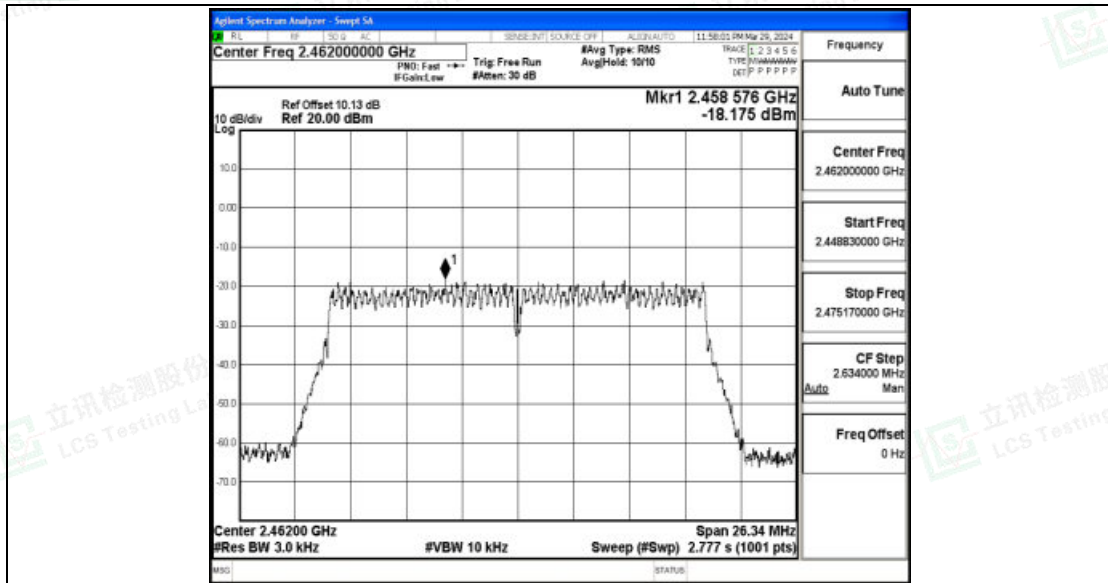


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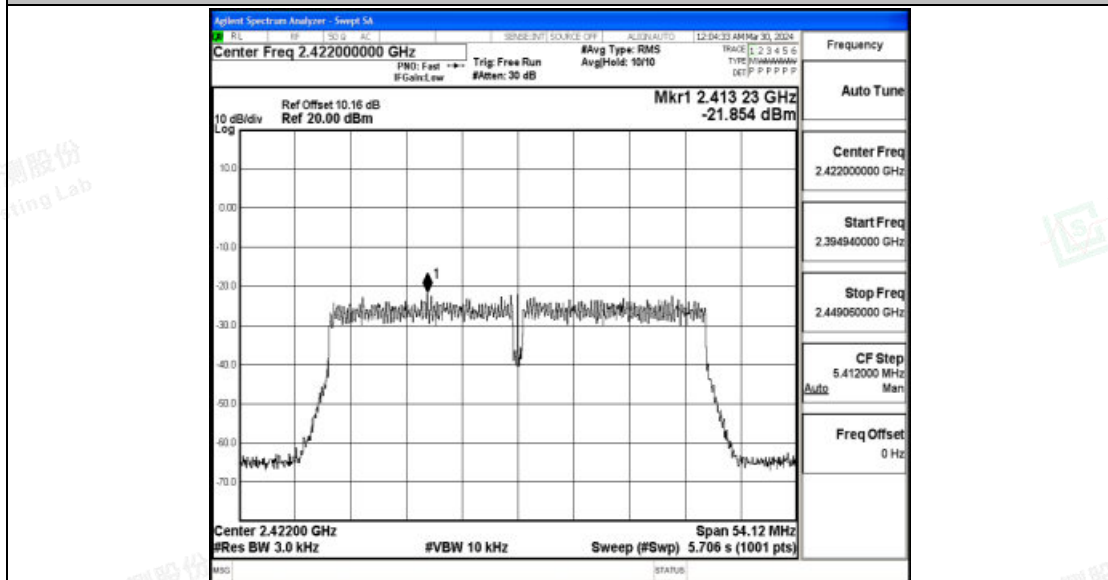
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

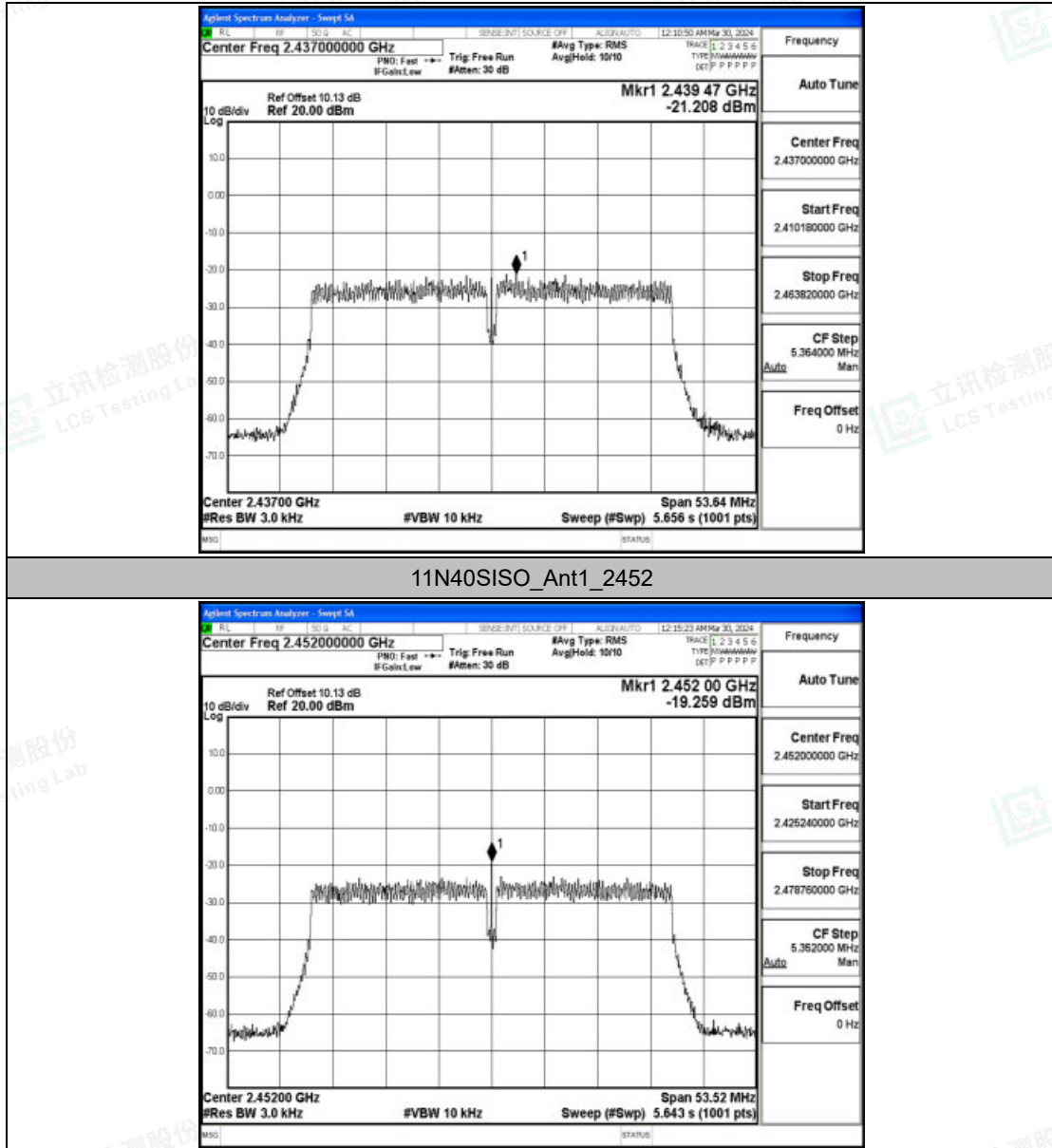


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B.4 Band edge measurements

Test Result

TestMode	Antenna	Channel	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.82	-42.88	≤-17.18	PASS
		High	2462	3.94	-47.96	≤-16.06	PASS
11G	Ant1	Low	2412	-3.87	-42.75	≤-23.87	PASS
		High	2462	-3.18	-46.92	≤-23.18	PASS
11N20SISO	Ant1	Low	2412	-4.39	-47.36	≤-24.39	PASS
		High	2462	-4.72	-47.84	≤-24.72	PASS
11N40SISO	Ant1	Low	2422	-8.22	-47.69	≤-28.22	PASS
		High	2452	-8.77	-47.7	≤-28.77	PASS



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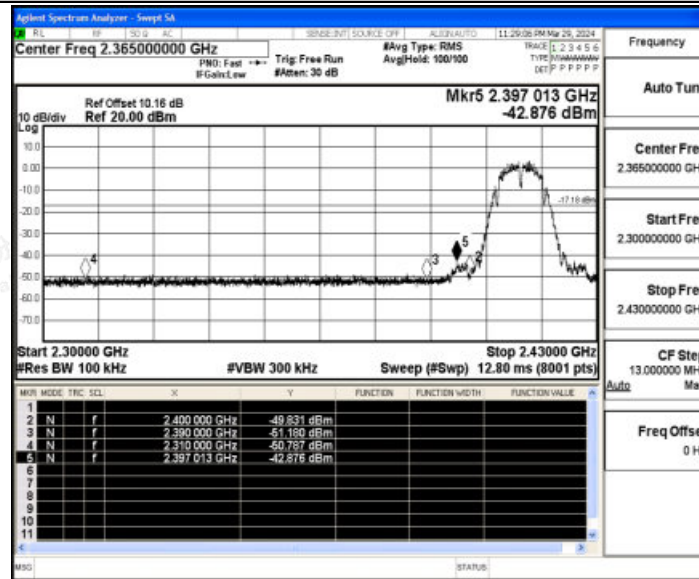
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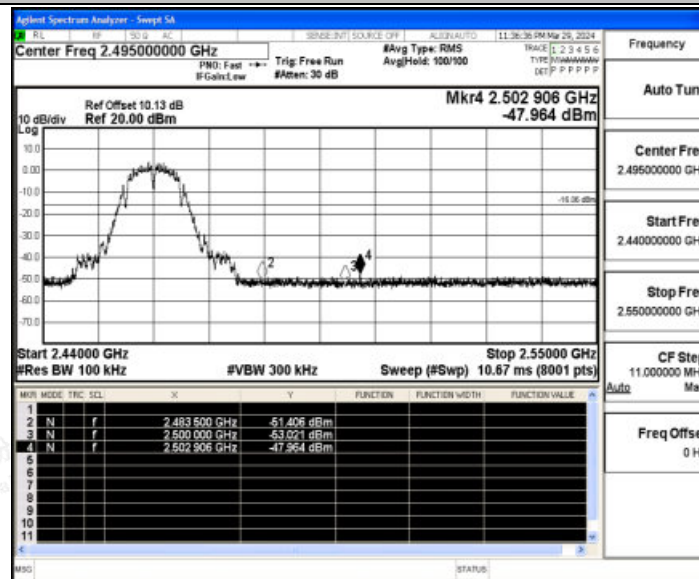


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

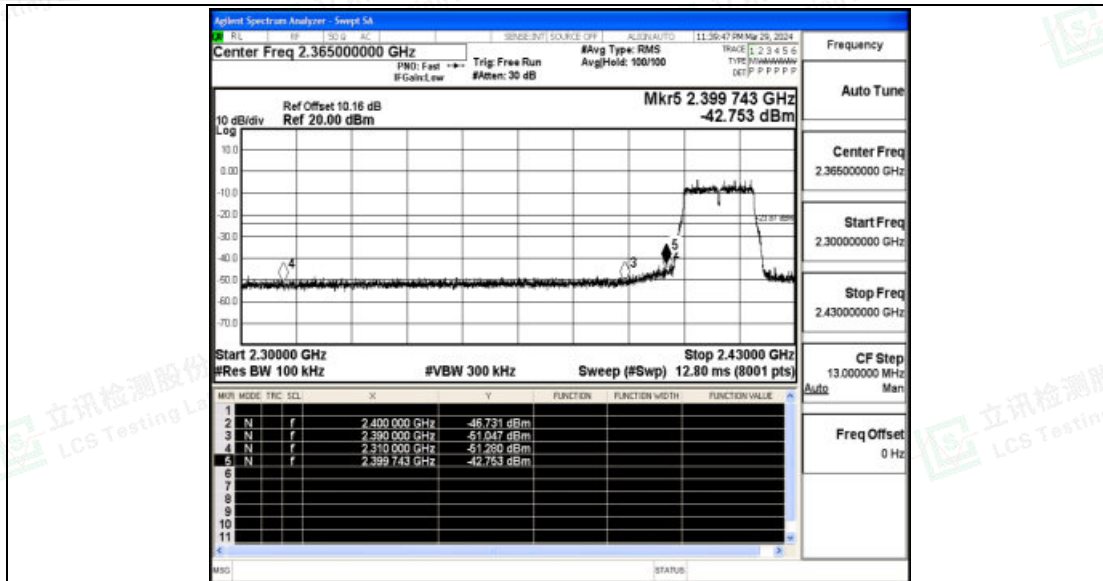


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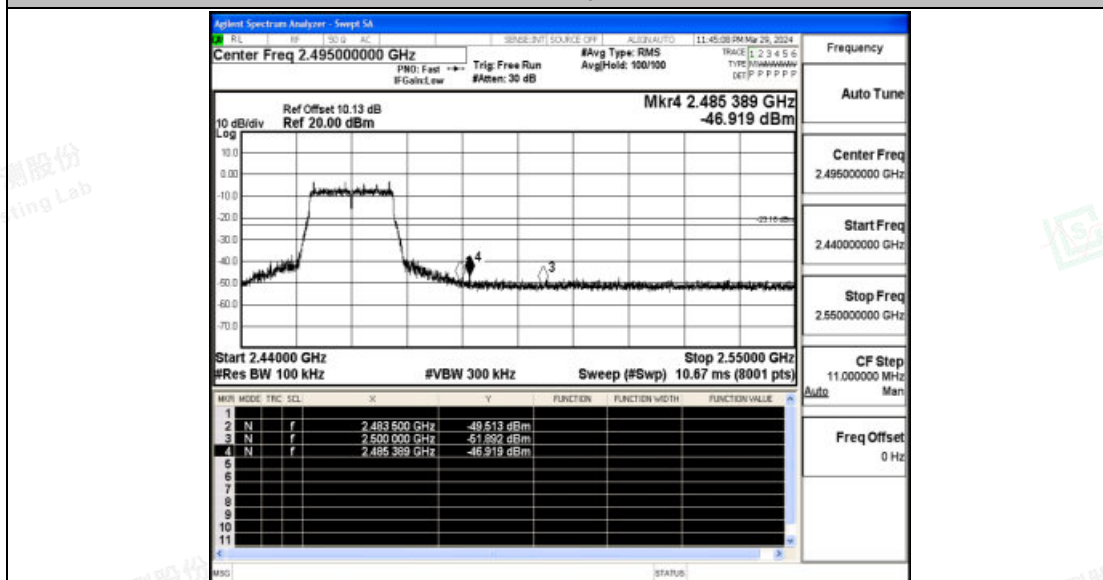
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

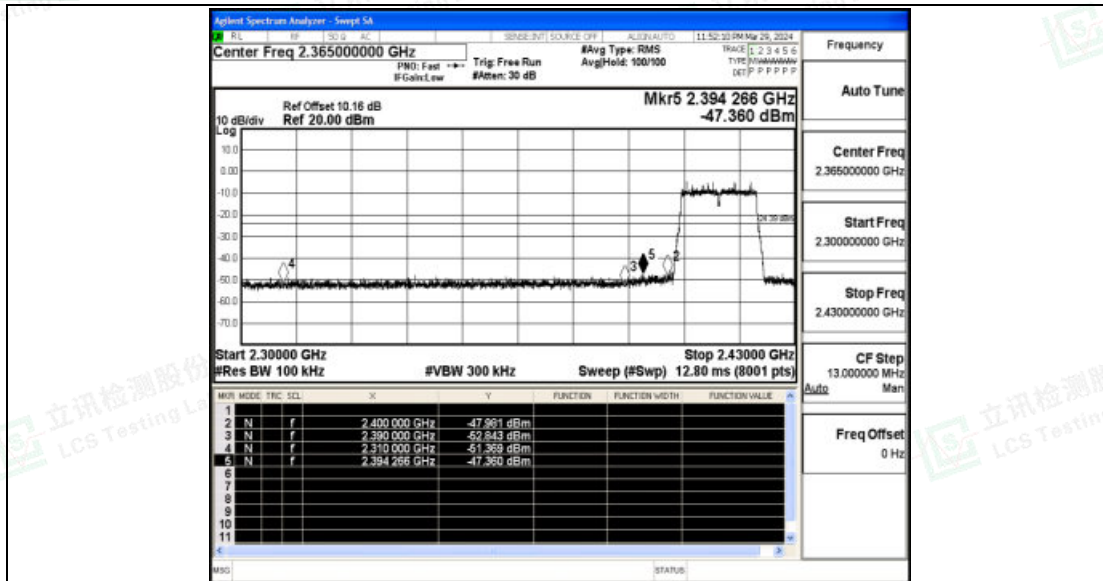


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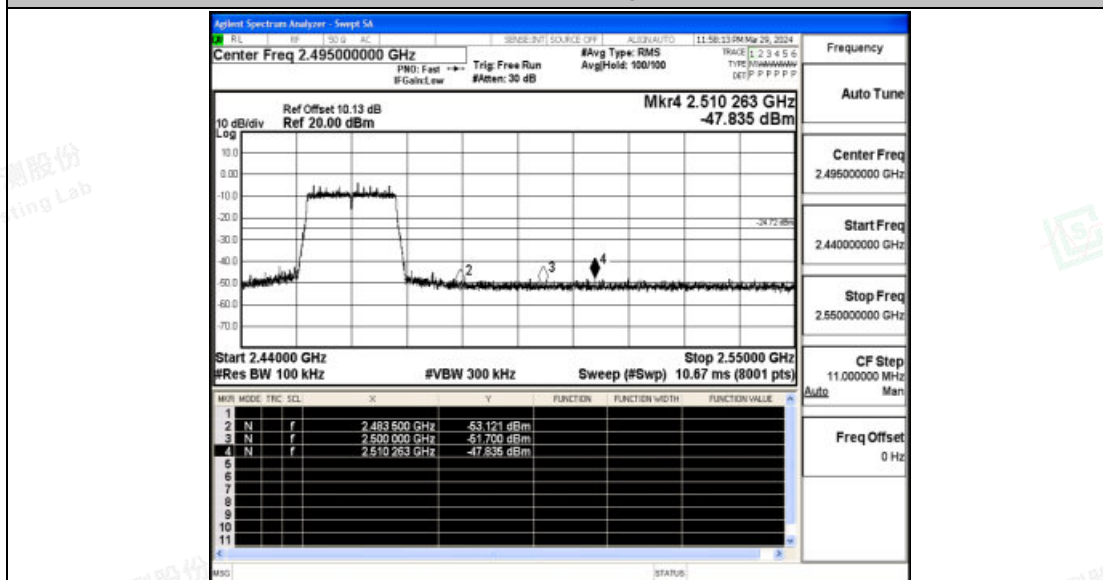
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11N20ISO_Ant1_High_2462



11N40ISO_Ant1_Low_2422

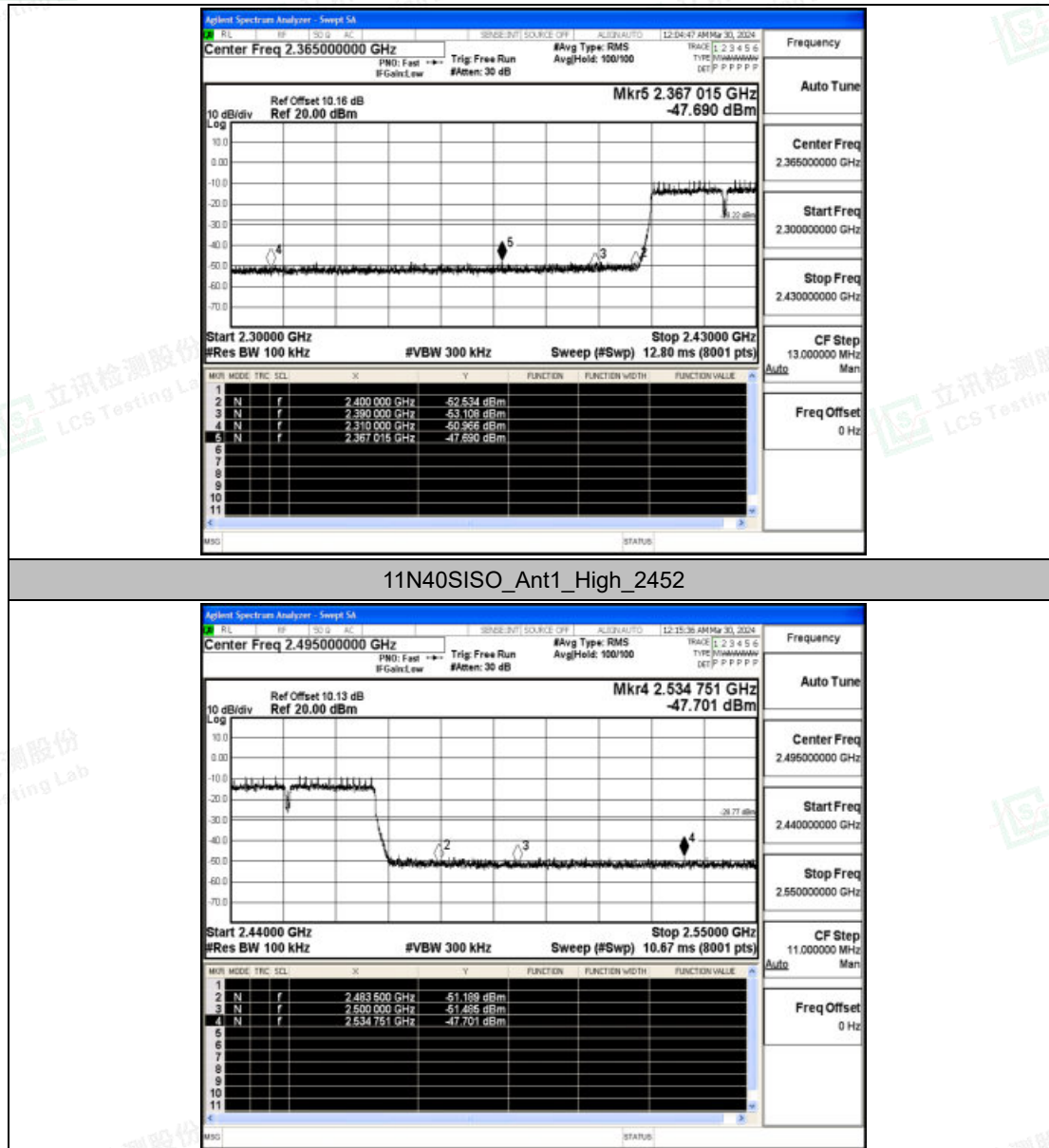


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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	2.82	-59.59	≤-17.18	PASS
			1000~26500	2.82	-39.51	≤-17.18	PASS
		2437	30~1000	3.57	-59.56	≤-16.43	PASS
			1000~26500	3.57	-47.18	≤-16.43	PASS
		2462	30~1000	3.94	-59.84	≤-16.06	PASS
			1000~26500	3.94	-47.14	≤-16.06	PASS
11G	Ant1	2412	30~1000	-3.87	-60.16	≤-23.87	PASS
			1000~26500	-3.87	-46.74	≤-23.87	PASS
		2437	30~1000	-3.50	-59.23	≤-23.5	PASS
			1000~26500	-3.50	-46.73	≤-23.5	PASS
		2462	30~1000	-3.18	-60.06	≤-23.18	PASS
			1000~26500	-3.18	-46.66	≤-23.18	PASS
11N20SISO	Ant1	2412	30~1000	-4.39	-59.38	≤-24.39	PASS
			1000~26500	-4.39	-46.71	≤-24.39	PASS
		2437	30~1000	-3.86	-60.06	≤-23.86	PASS
			1000~26500	-3.86	-46.84	≤-23.86	PASS
		2462	30~1000	-4.72	-59.94	≤-24.72	PASS
			1000~26500	-4.72	-46.87	≤-24.72	PASS
11N40SISO	Ant1	2422	30~1000	-8.22	-59.87	≤-28.22	PASS
			1000~26500	-8.22	-47.1	≤-28.22	PASS
		2437	30~1000	-7.55	-59.37	≤-27.55	PASS
			1000~26500	-7.55	-47.32	≤-27.55	PASS
		2452	30~1000	-8.77	-59.38	≤-28.77	PASS
			1000~26500	-8.77	-47.31	≤-28.77	PASS



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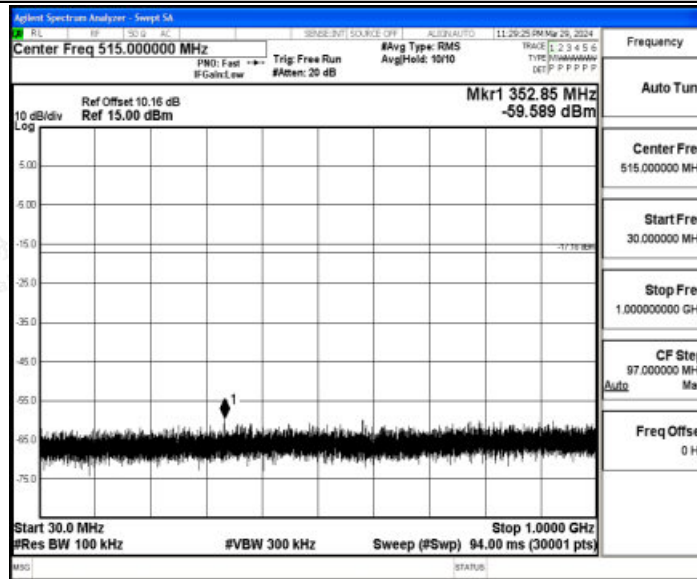
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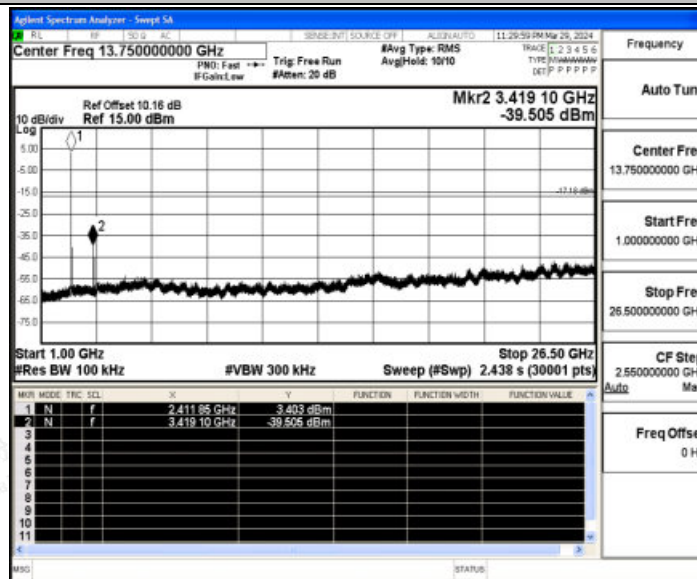


Test Graphs

11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant1_2437_30~1000

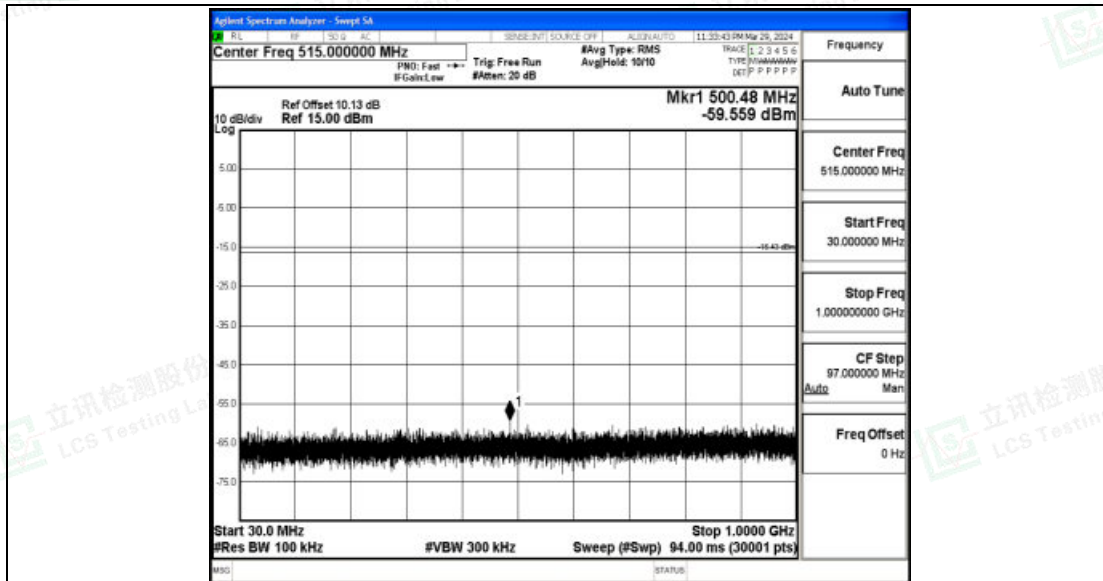


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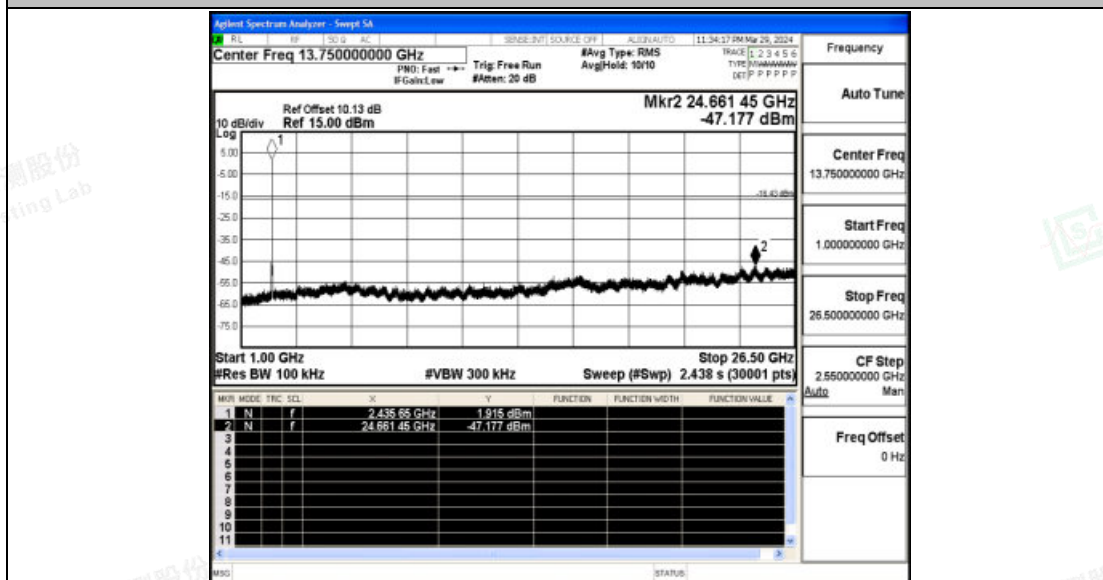
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_30~1000

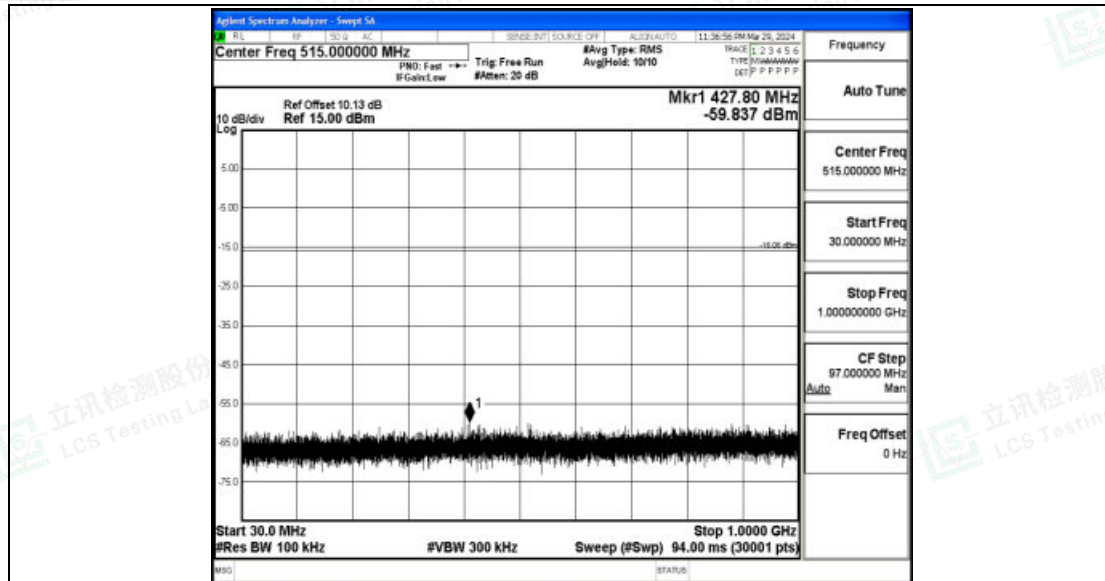


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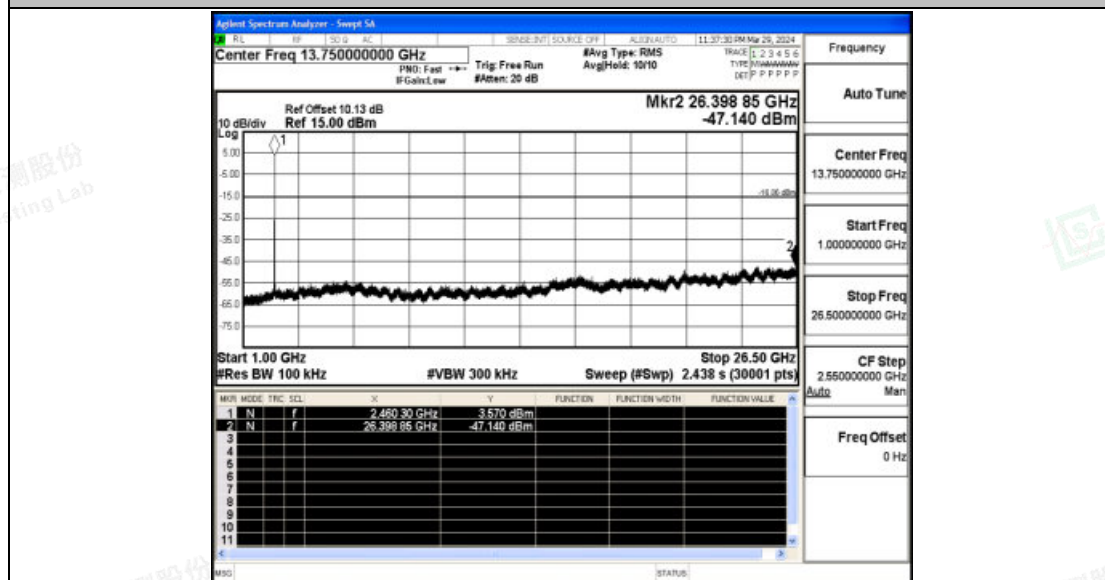
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



11B_Ant1_2462_1000~26500



11G_Ant1_2412_30~1000

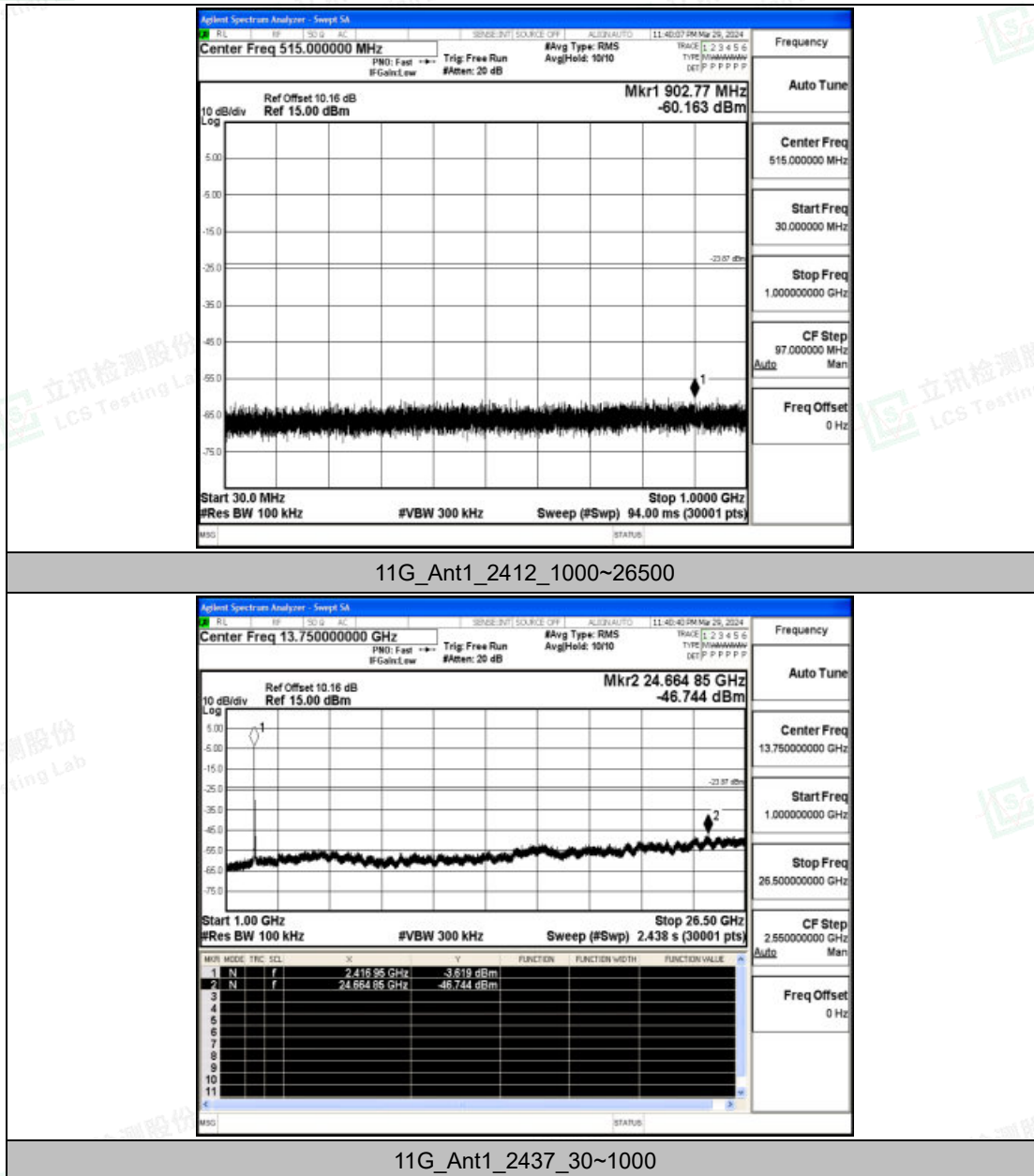


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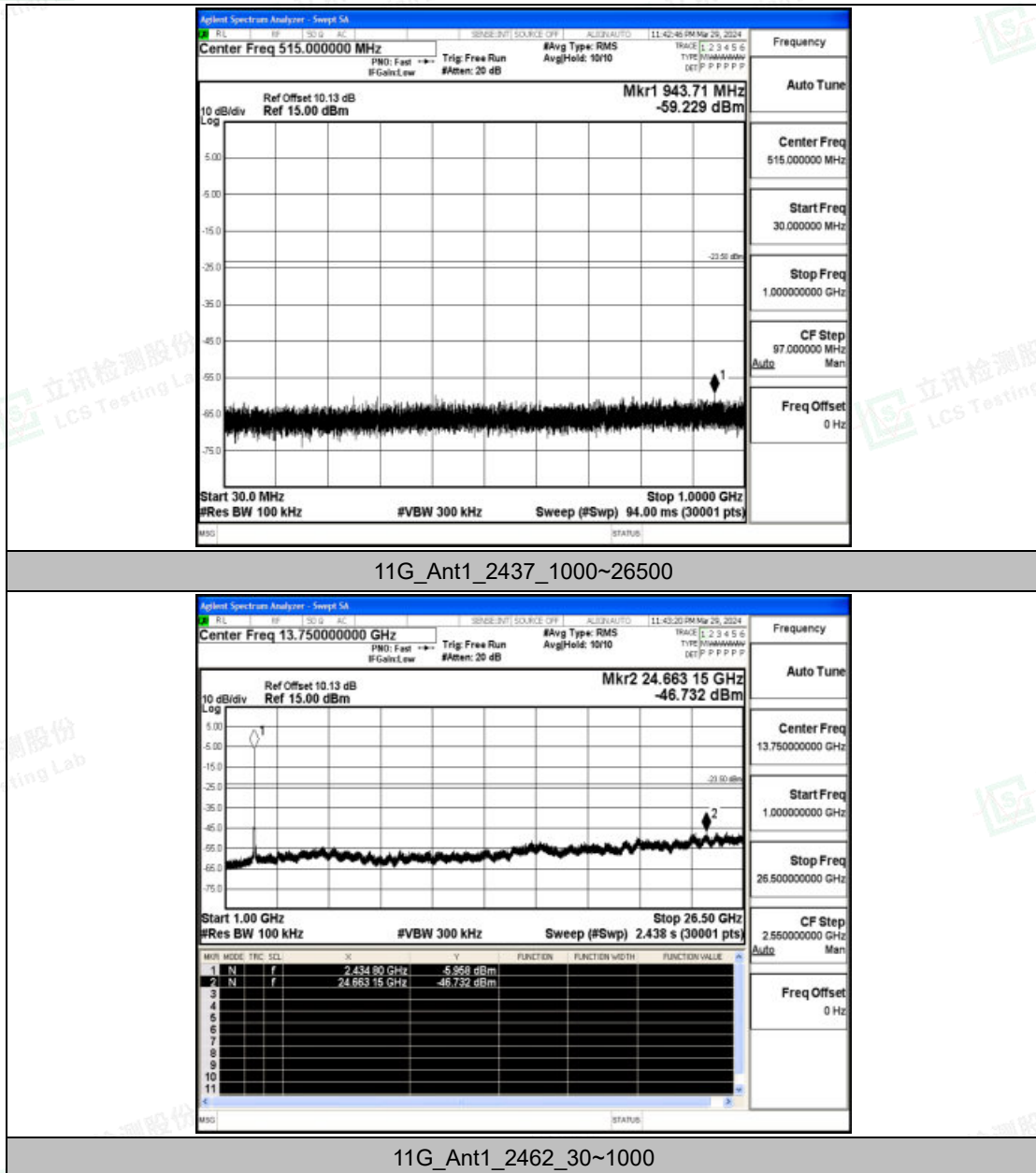


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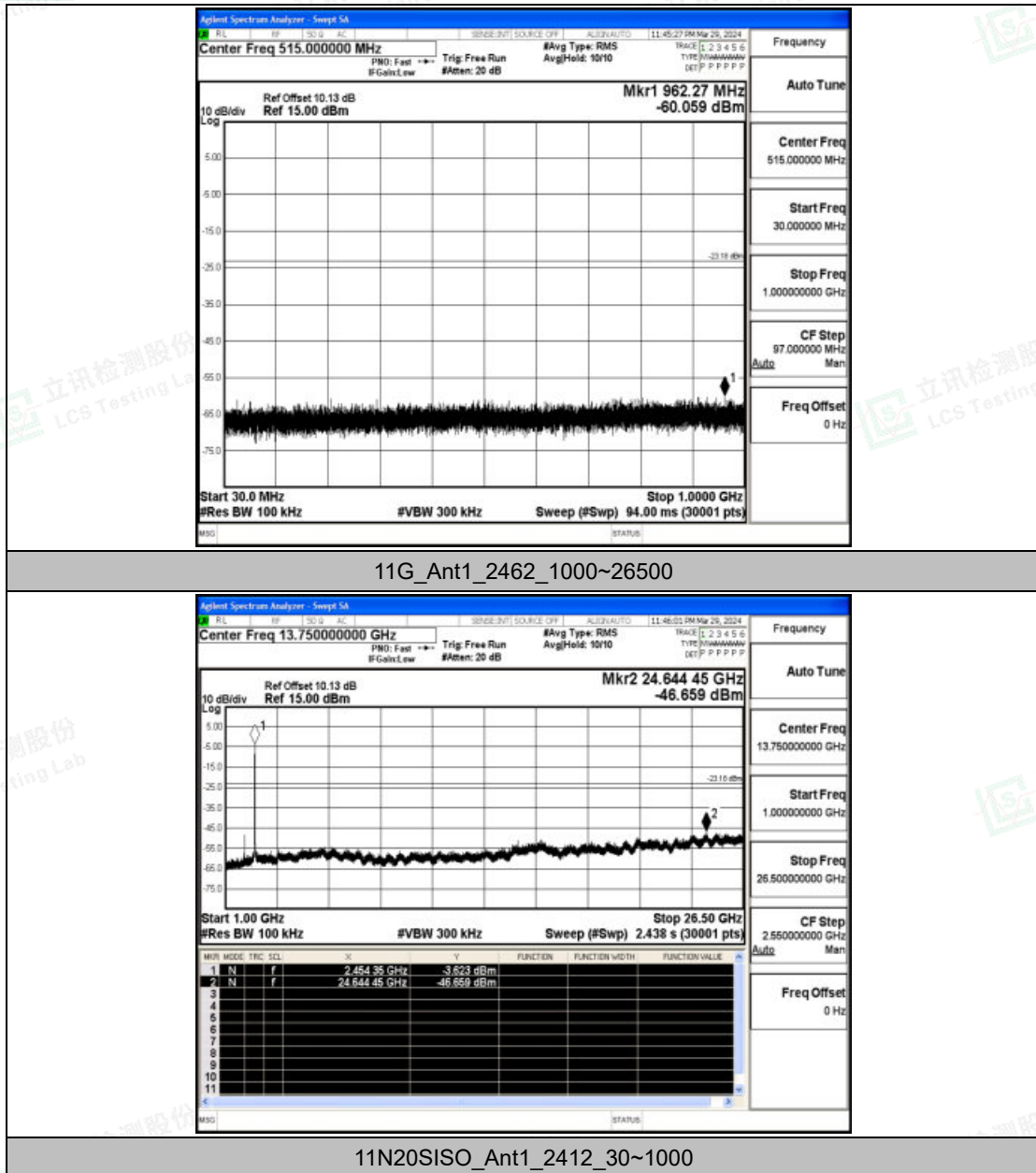


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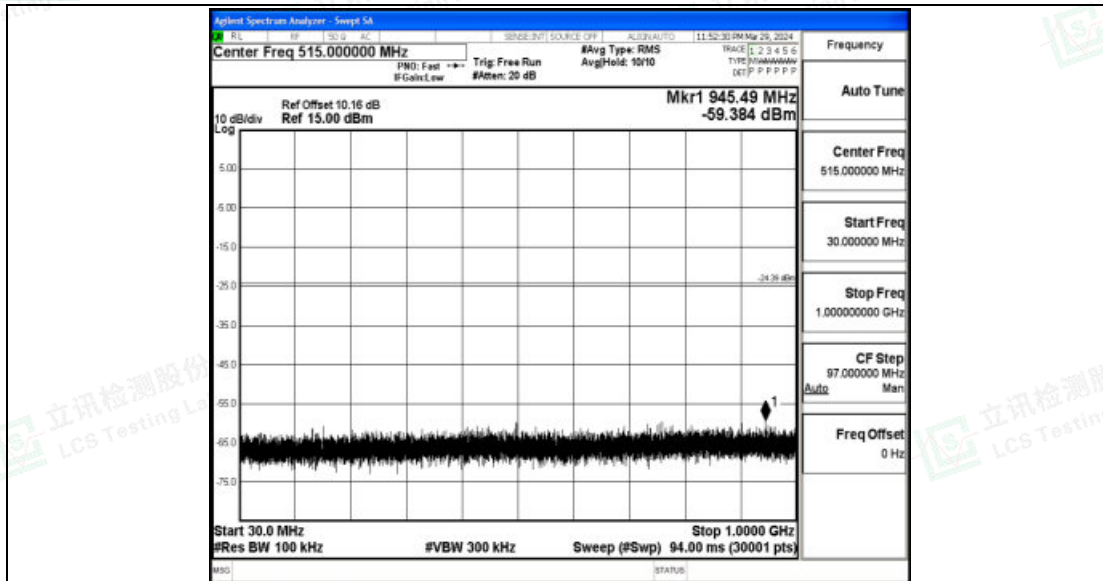


Shenzhen LCS Compliance Testing Laboratory Ltd.

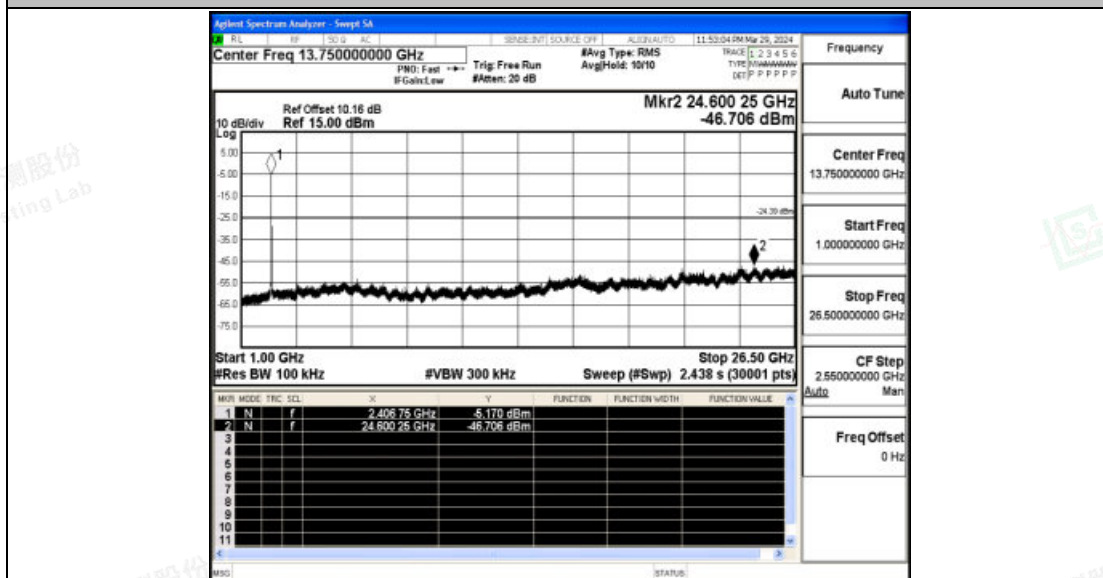
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_30~1000

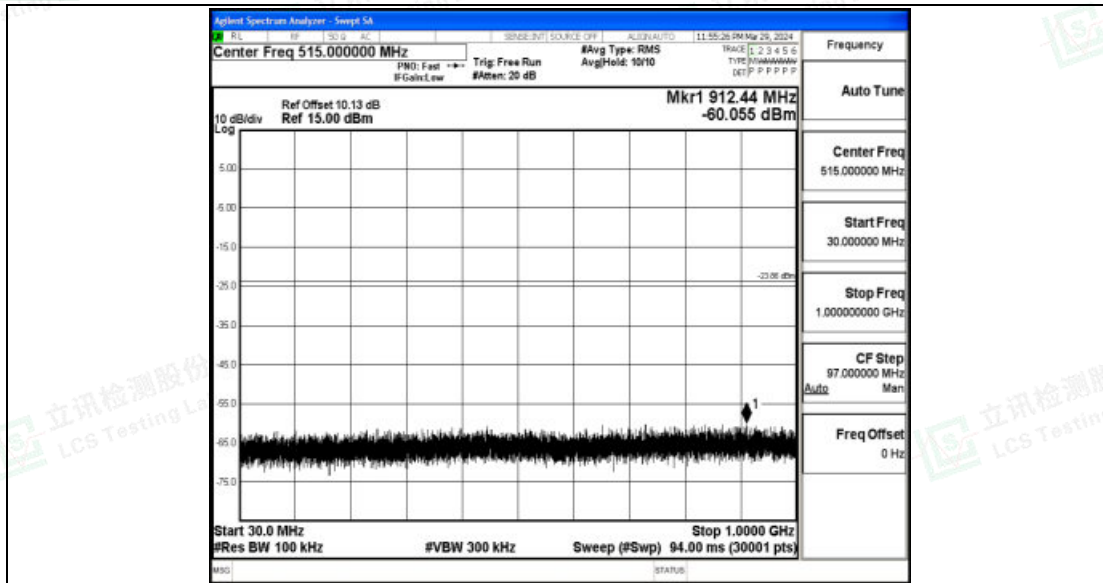


Shenzhen LCS Compliance Testing Laboratory Ltd.

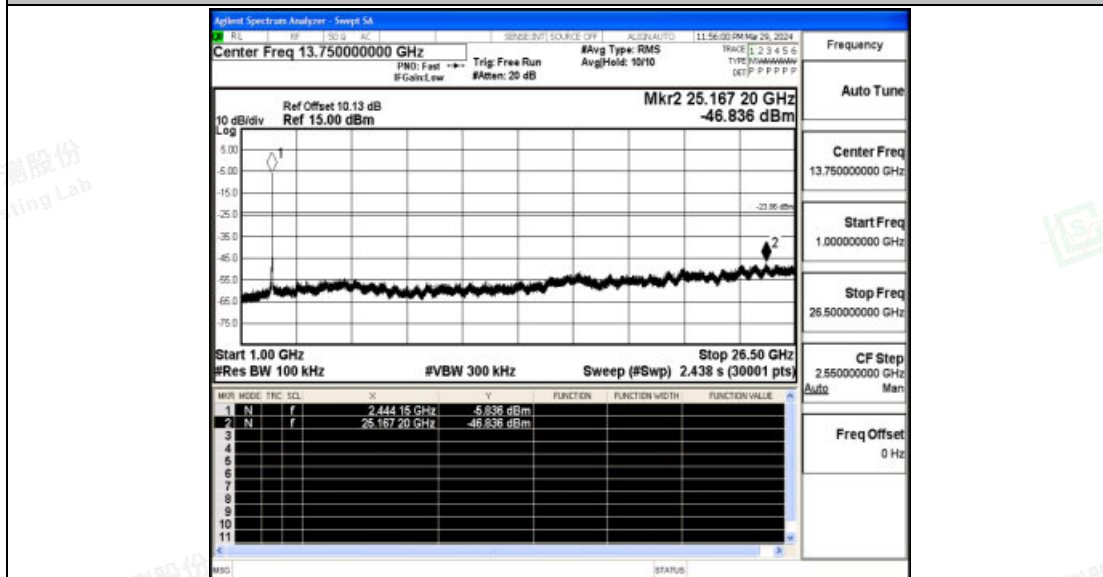
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_30~1000

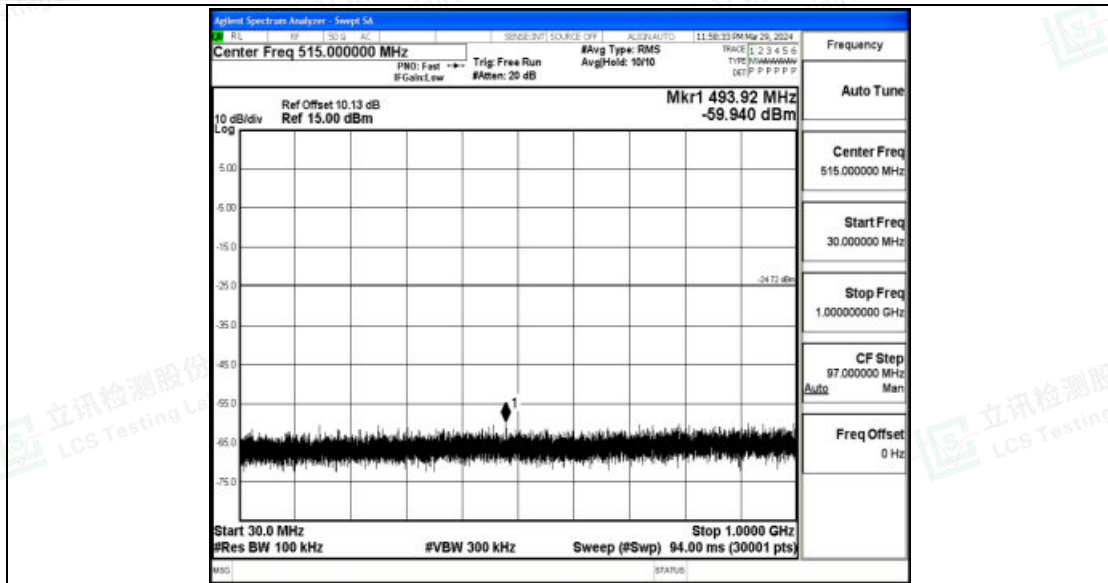


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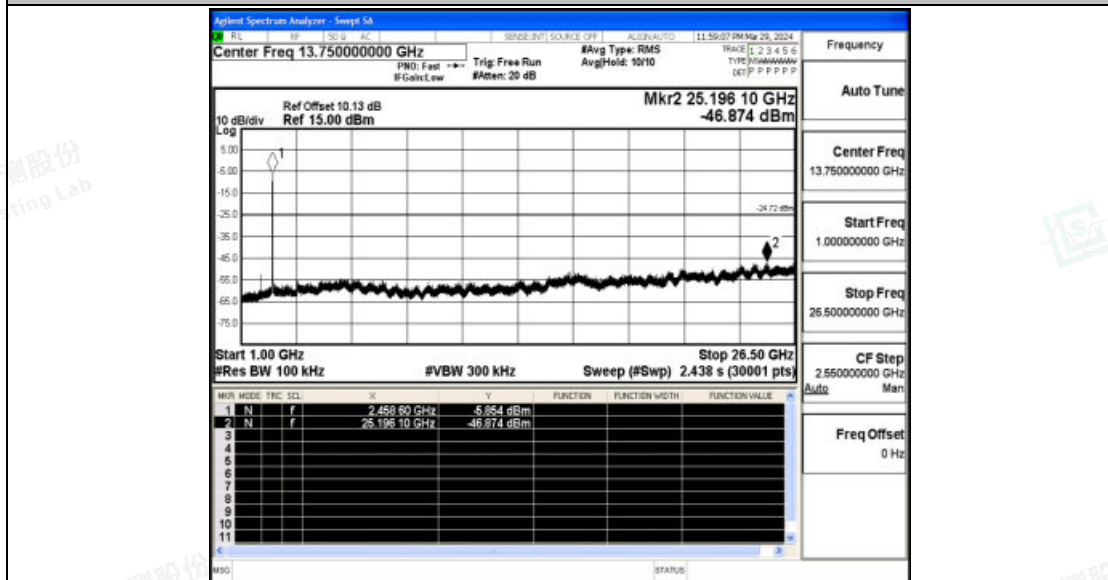
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11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_30~1000

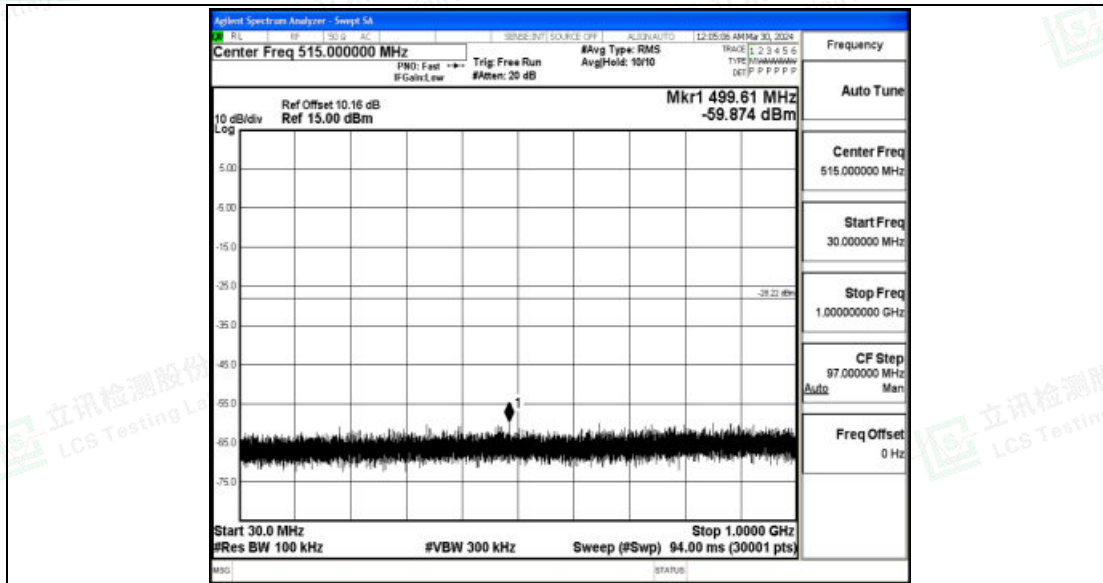


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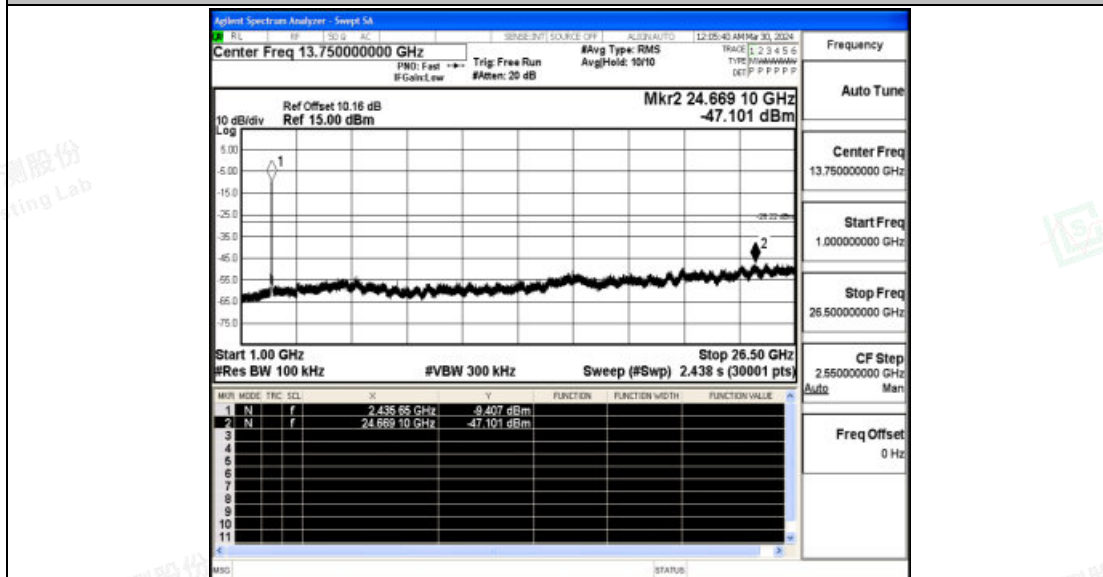
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_30~1000

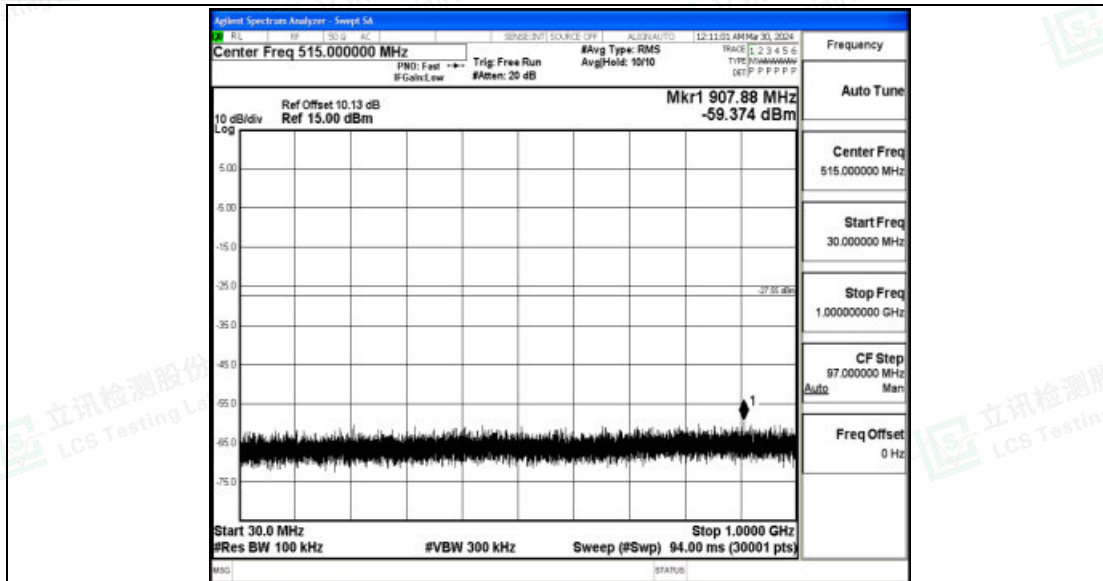


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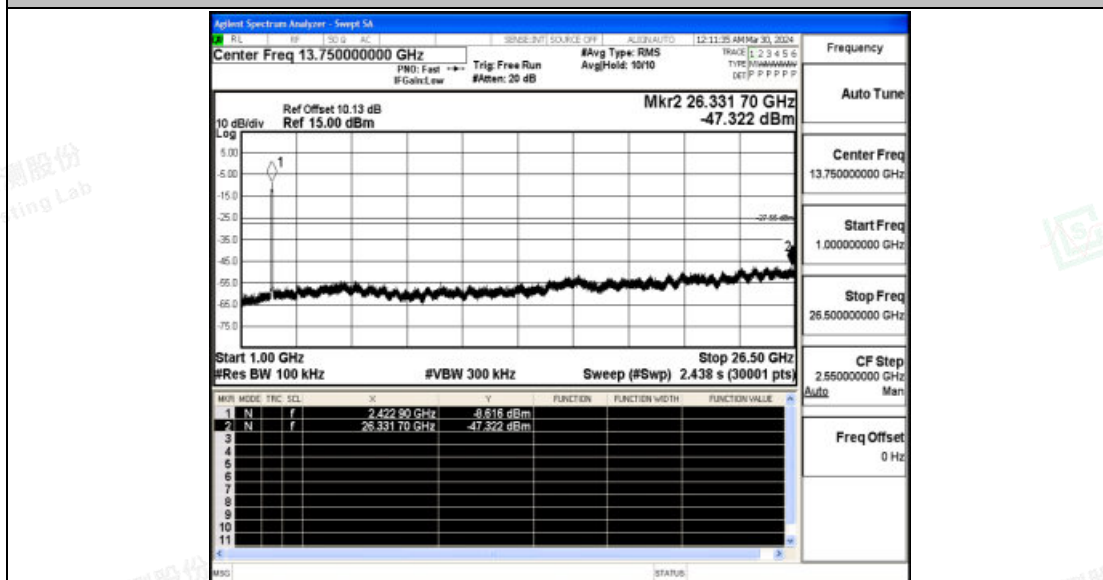
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_30~1000

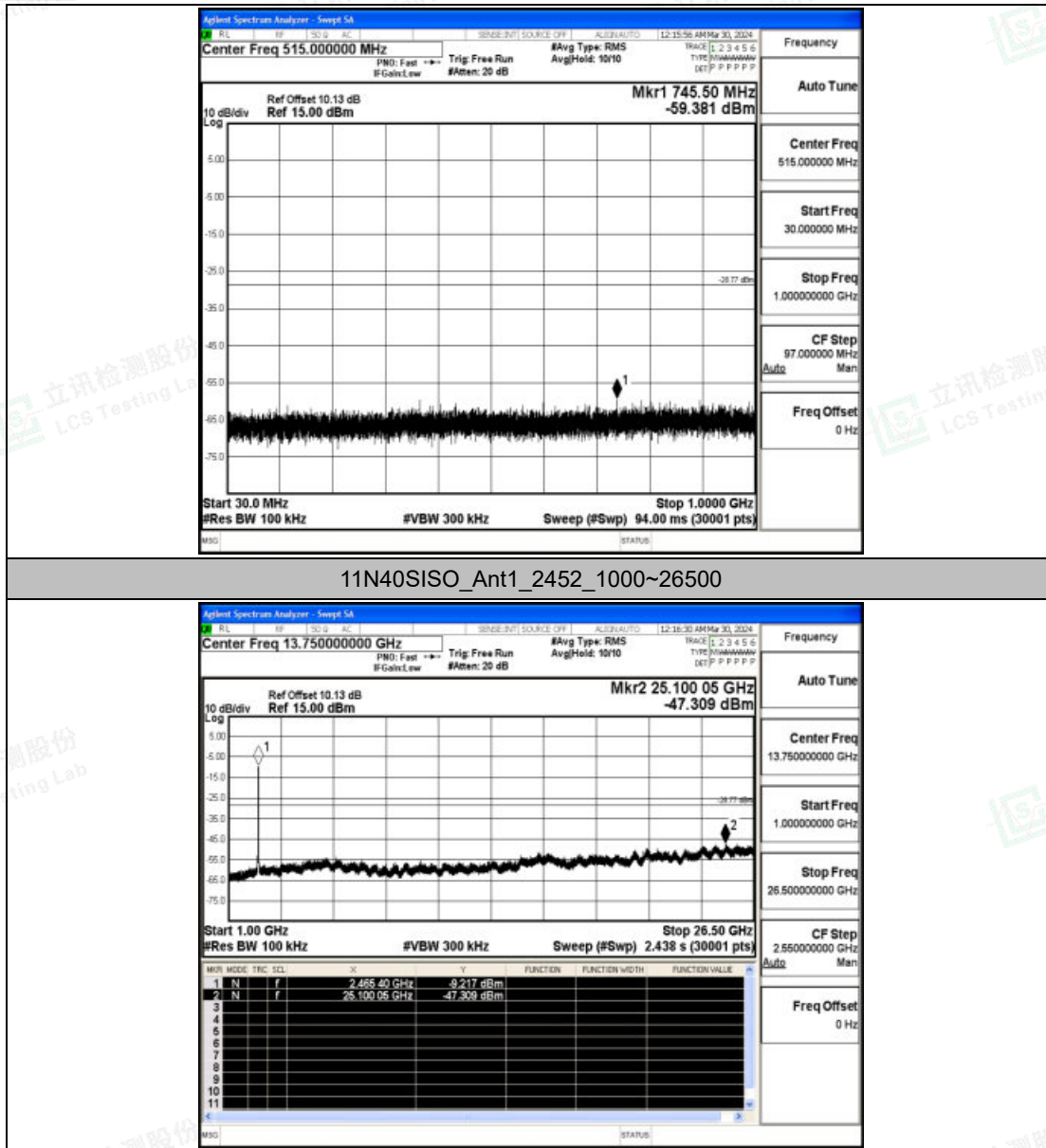


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Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2410.47	2.82
		2437	2435.99	3.57
		2462	2462.99	3.94
11G	Ant1	2412	2419.49	-3.87
		2437	2430.74	-3.50
		2462	2463.28	-3.18
11N20SISO	Ant1	2412	2413.27	-4.39
		2437	2438.21	-3.86
		2462	2469.51	-4.72
11N40SISO	Ant1	2422	2424.49	-8.22
		2437	2434.48	-7.55
		2452	2449.48	-8.77



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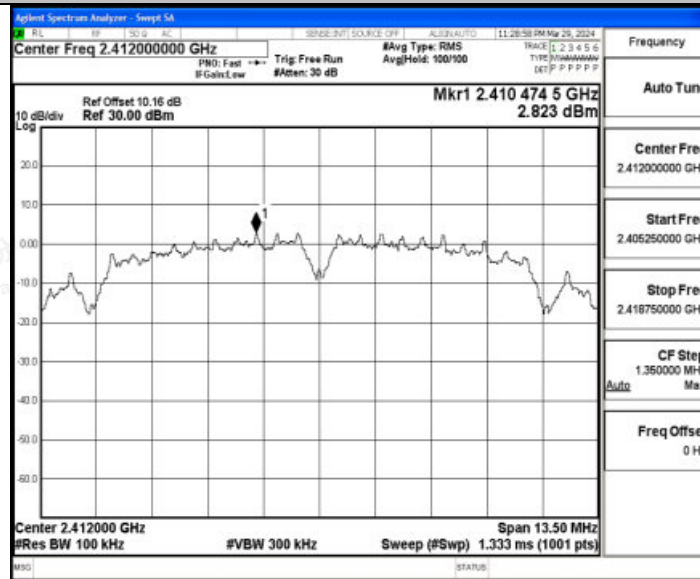
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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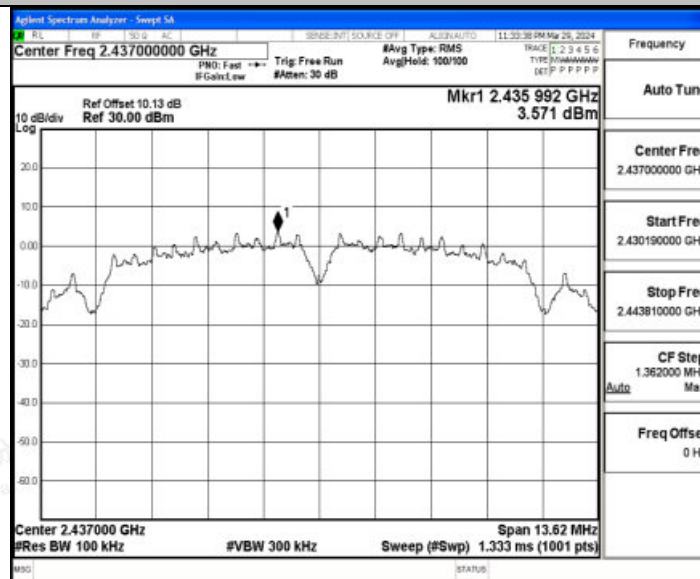


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

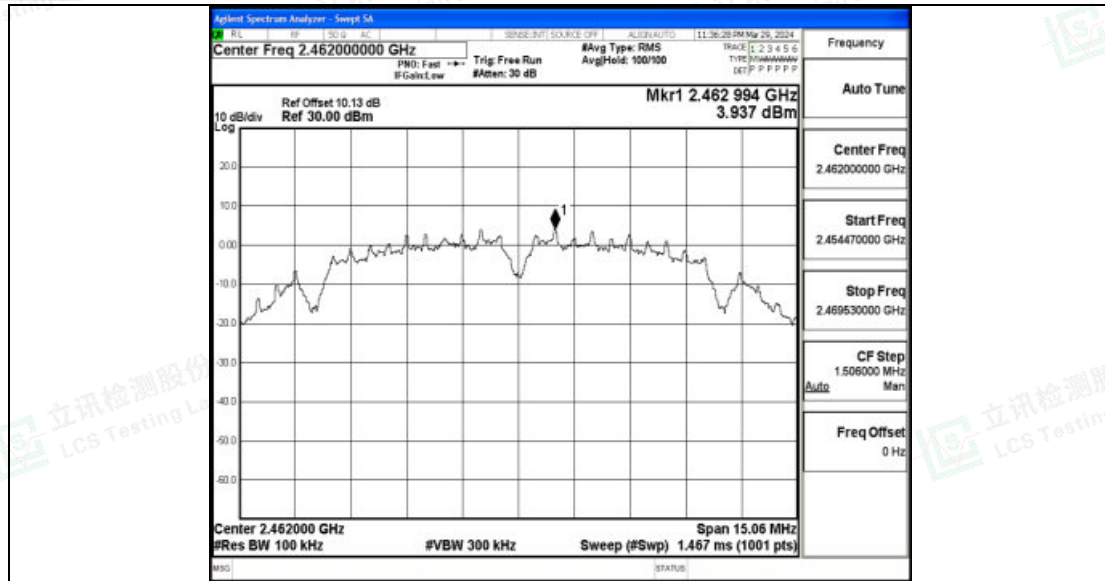


Shenzhen LCS Compliance Testing Laboratory Ltd.

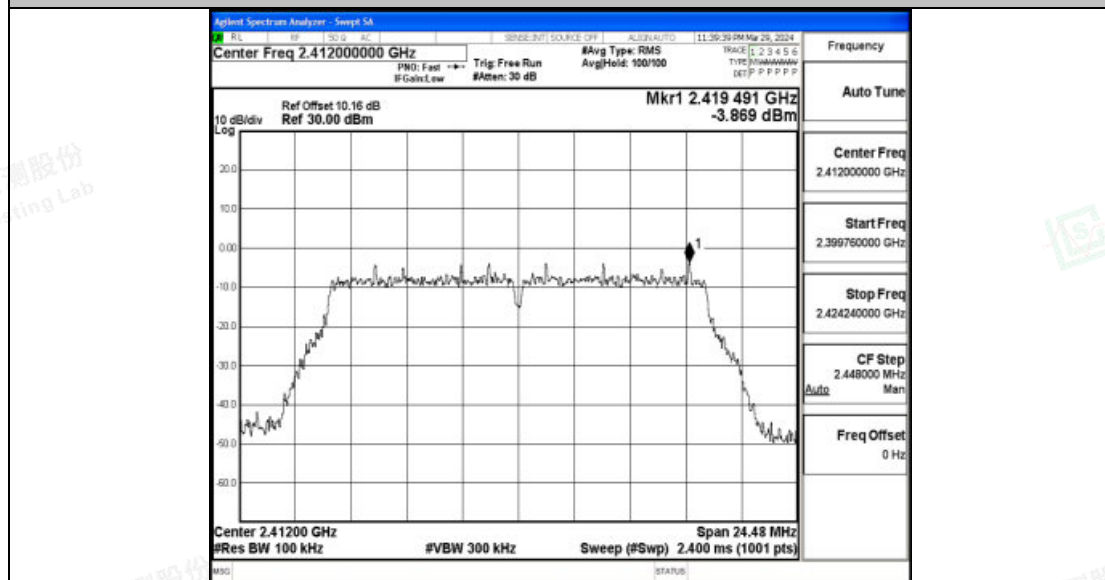
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412



11G_Ant1_2437

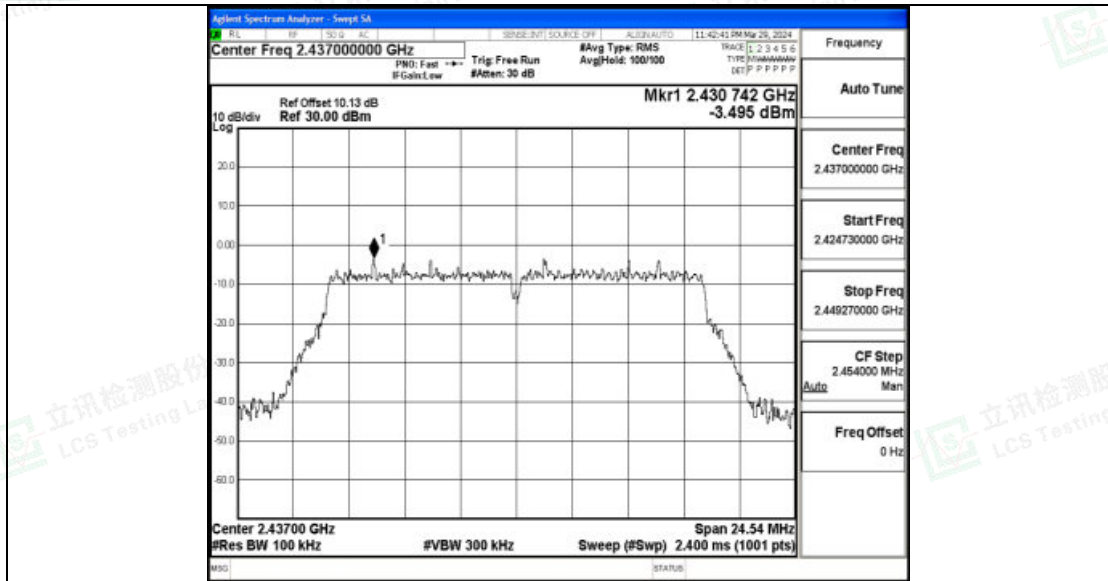


Shenzhen LCS Compliance Testing Laboratory Ltd.

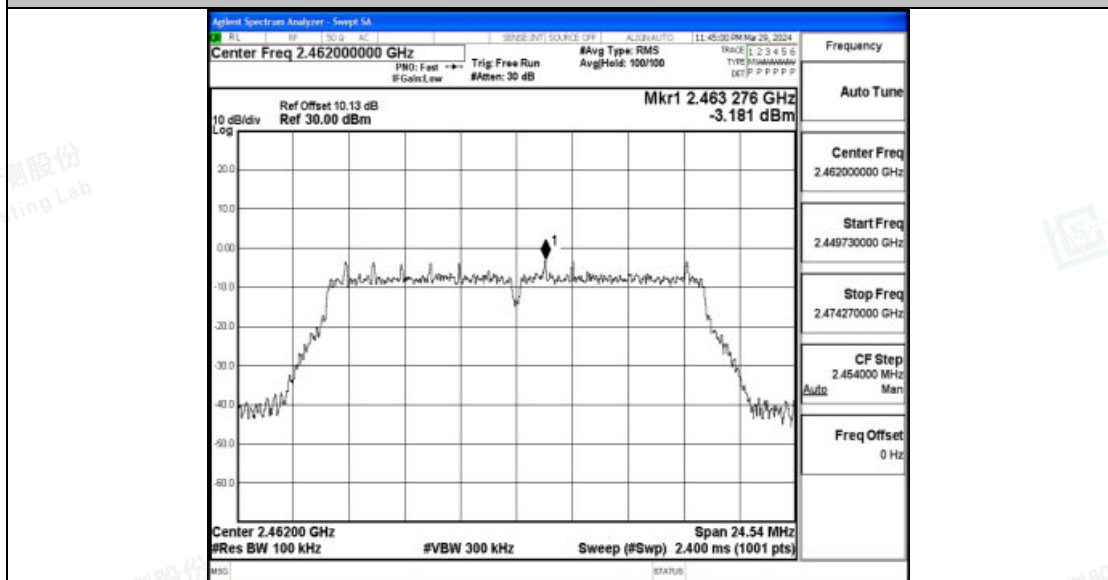
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462



11N20SISO_Ant1_2412

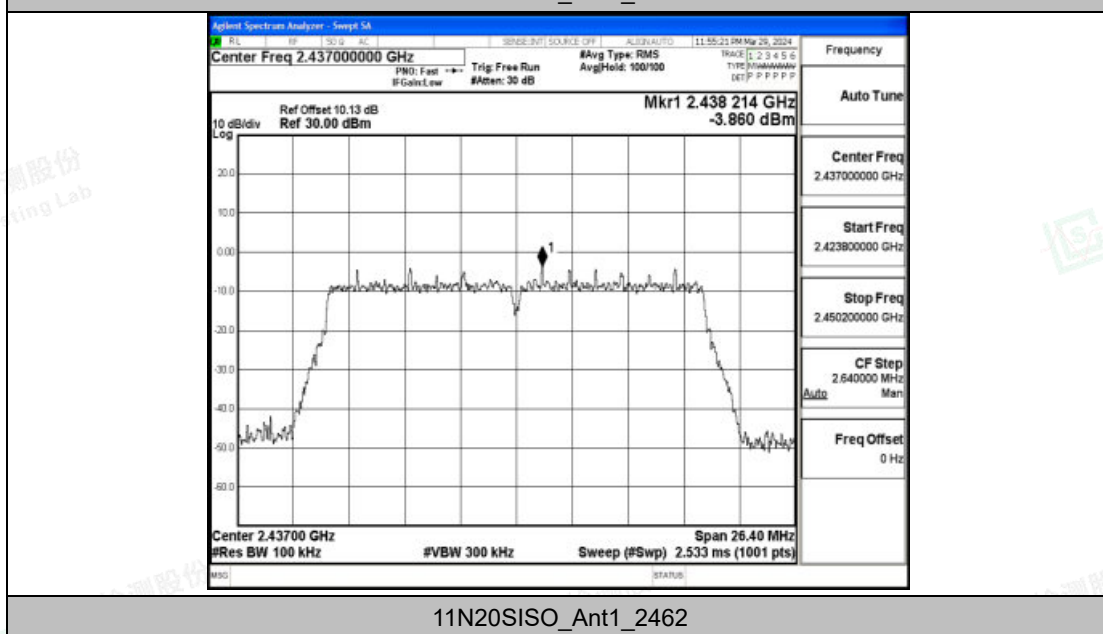
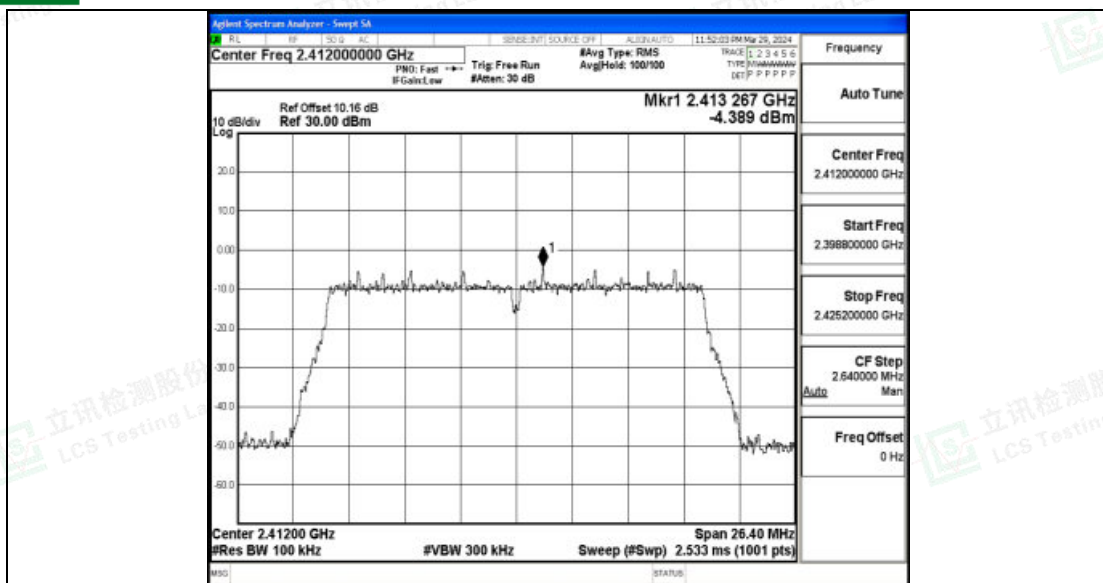


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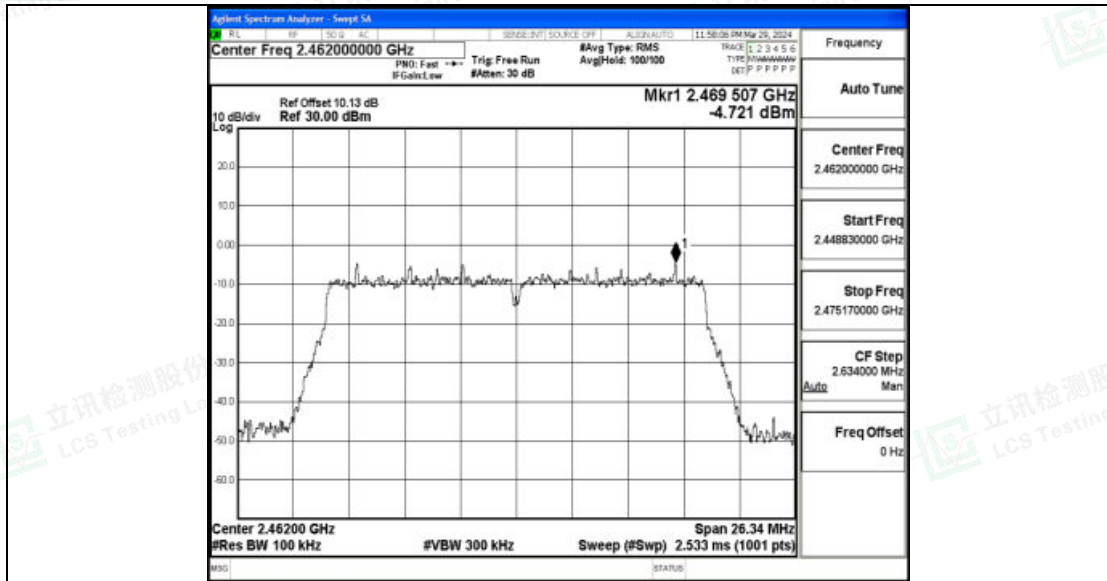


Shenzhen LCS Compliance Testing Laboratory Ltd.

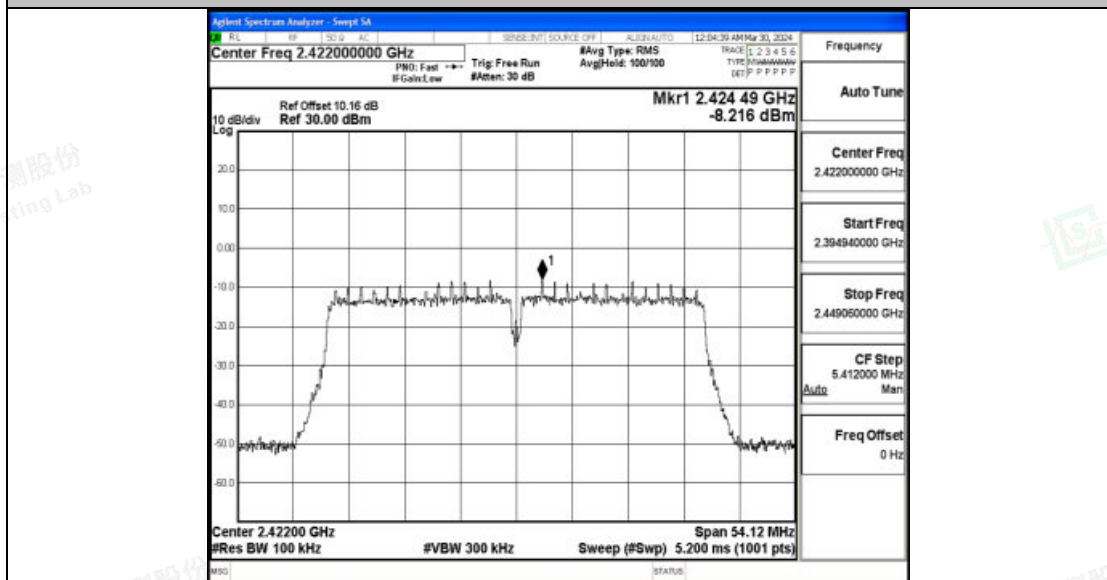
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

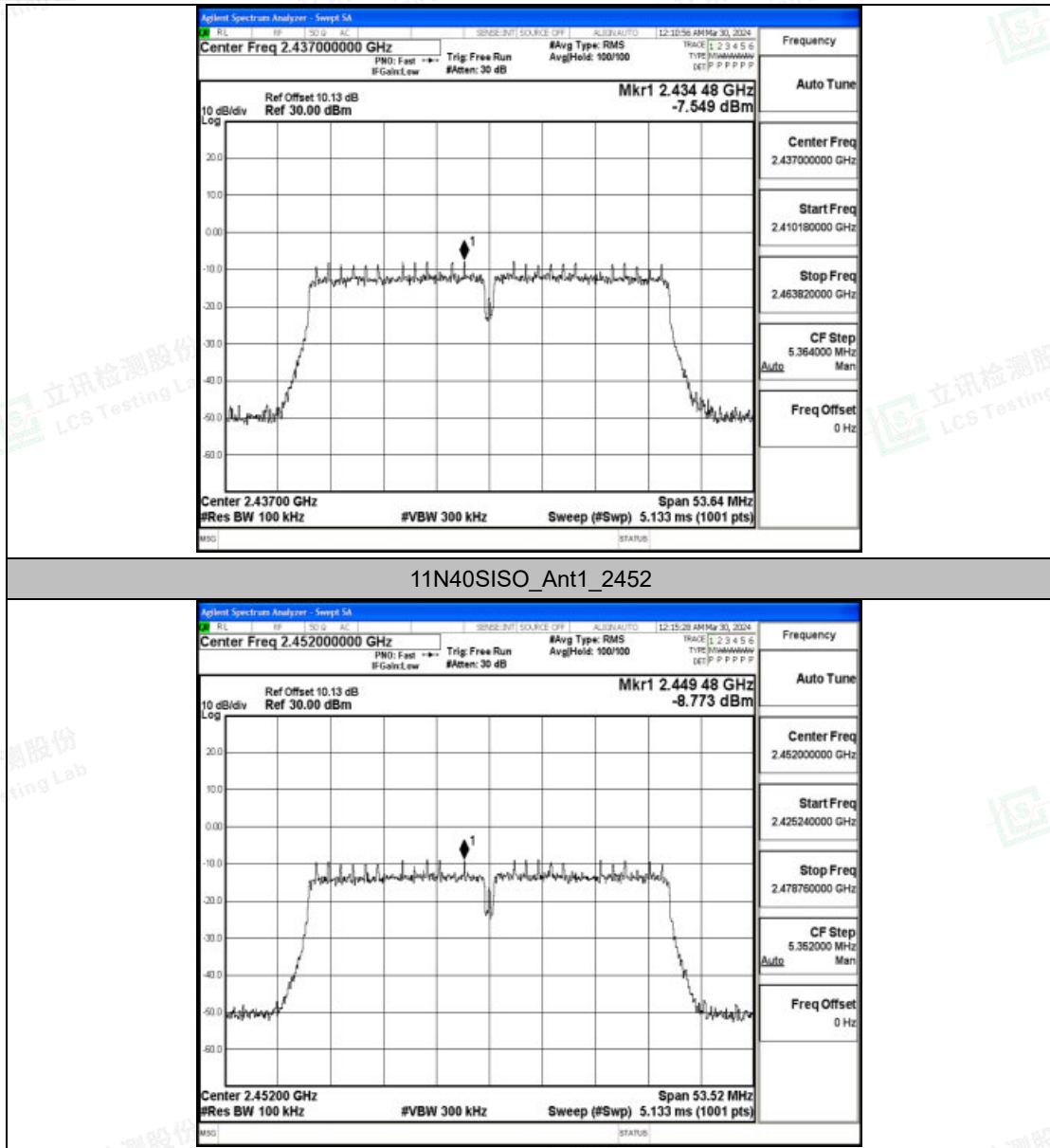


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B.6 Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	1/T Factor[kHz]	Verdict
11B	Ant1	2412	6.60	6.63	99.55	0.02	0.15	---
		2437	6.59	6.62	99.55	0.02	0.15	---
		2462	6.59	6.62	99.55	0.02	0.15	---
11G	Ant1	2412	1.09	1.12	97.32	0.12	0.92	---
		2437	1.09	1.13	96.46	0.16	0.92	---
		2462	1.09	1.13	96.46	0.16	0.92	---
11N20SISO	Ant1	2412	1.02	1.06	96.23	0.17	0.98	---
		2437	1.03	1.06	97.17	0.12	0.97	---
		2462	1.03	1.06	97.17	0.12	0.97	---
11N40SISO	Ant1	2422	0.51	0.54	94.44	0.25	1.96	---
		2437	0.51	0.55	92.73	0.33	1.96	---
		2452	0.51	0.54	94.44	0.25	1.96	---



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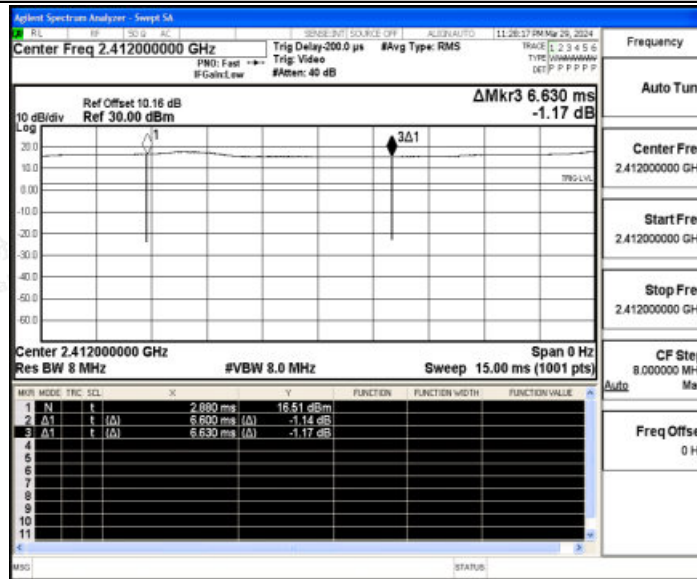
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Scan code to check authenticity

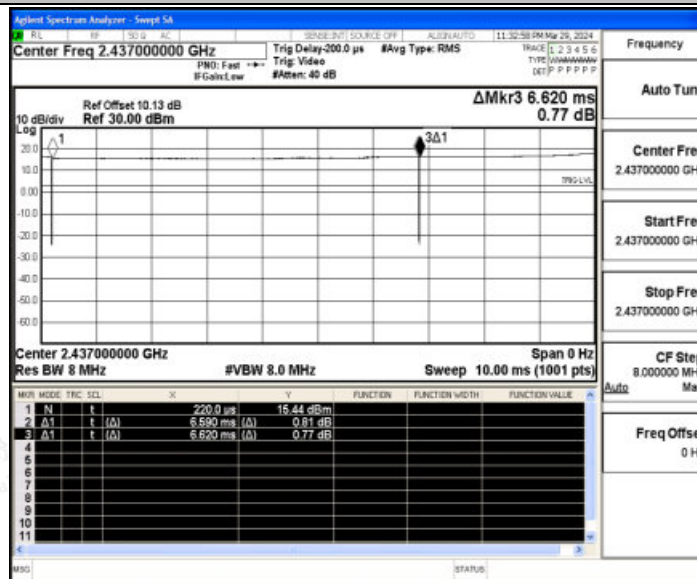


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

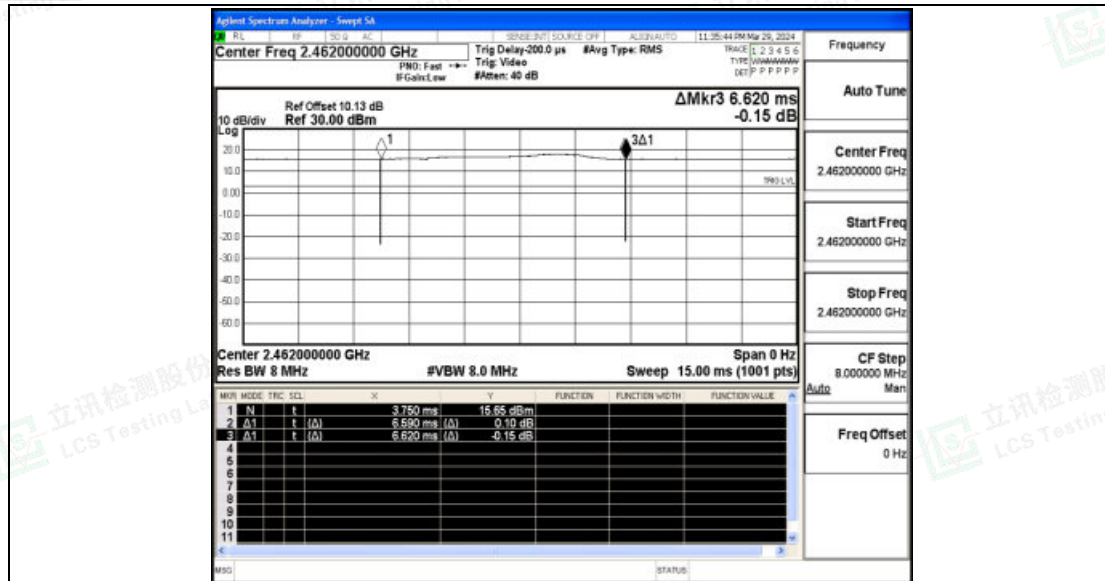


Shenzhen LCS Compliance Testing Laboratory Ltd.

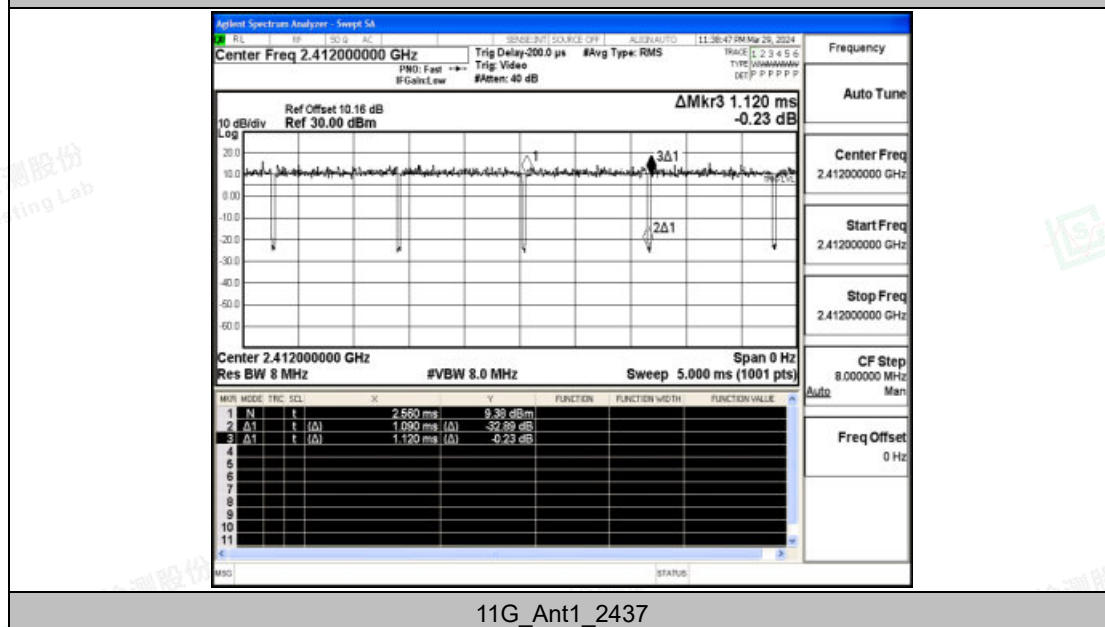
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412



11G_Ant1_2437

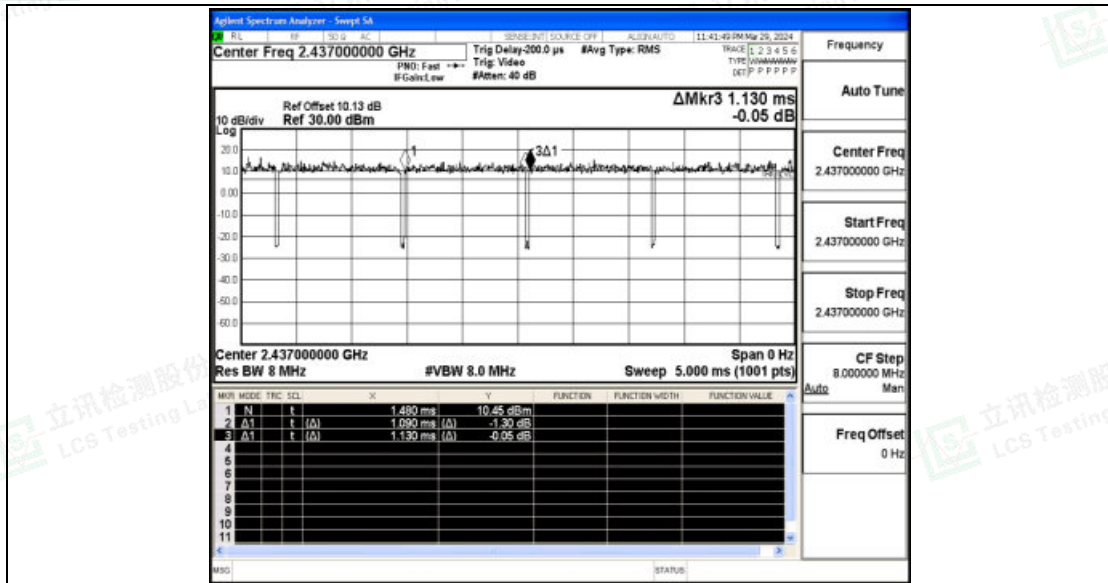


Shenzhen LCS Compliance Testing Laboratory Ltd.

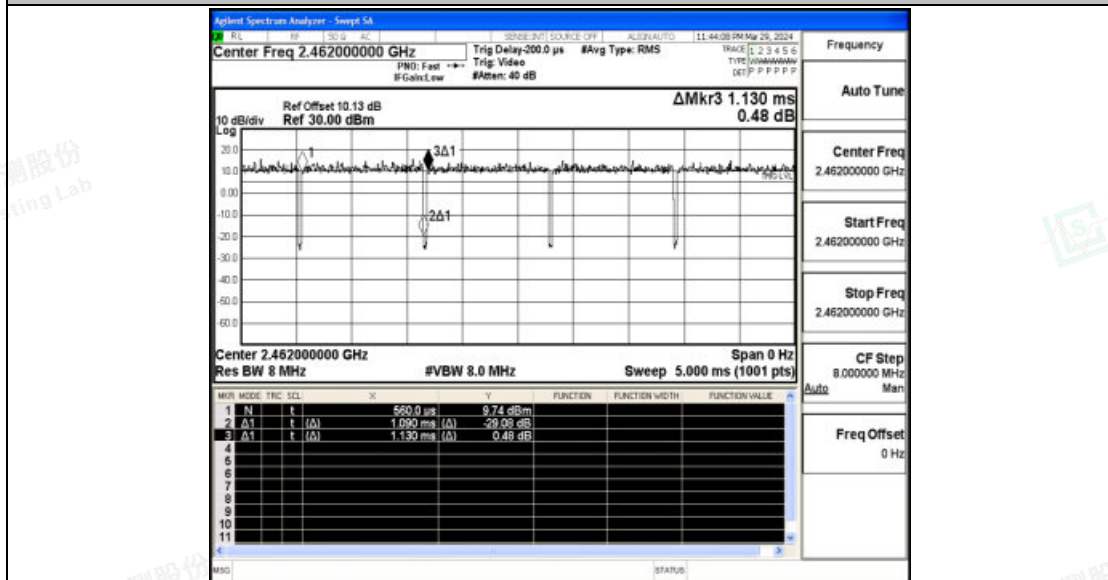
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462



11N20SISO_Ant1_2412

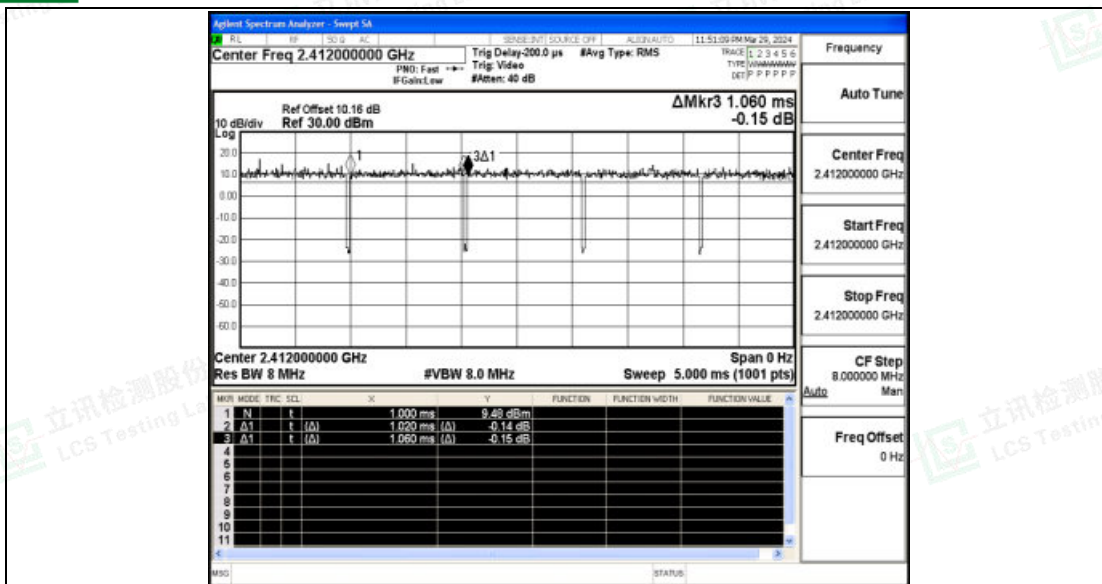


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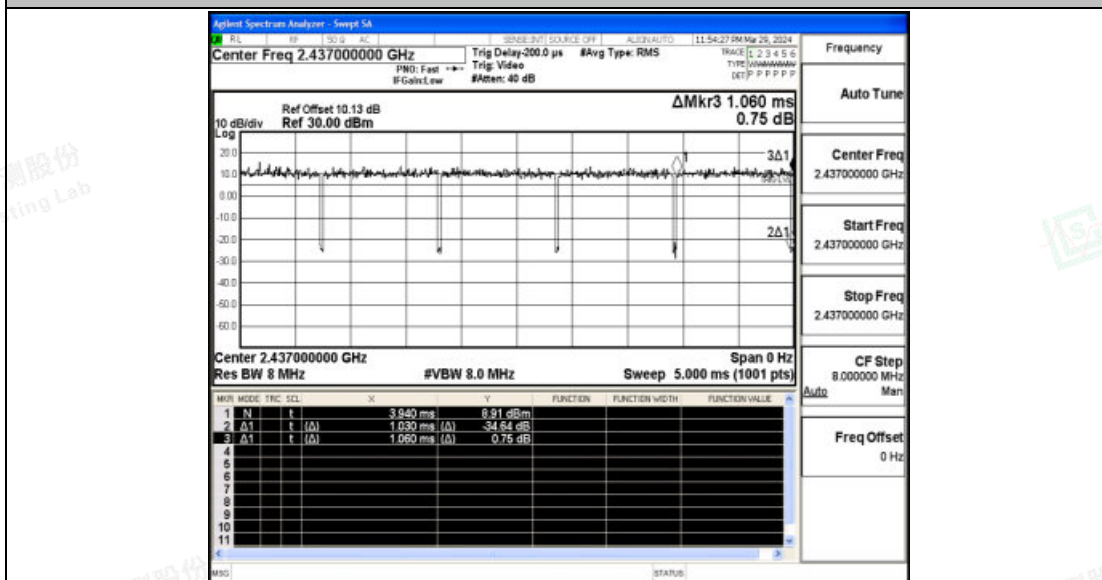
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

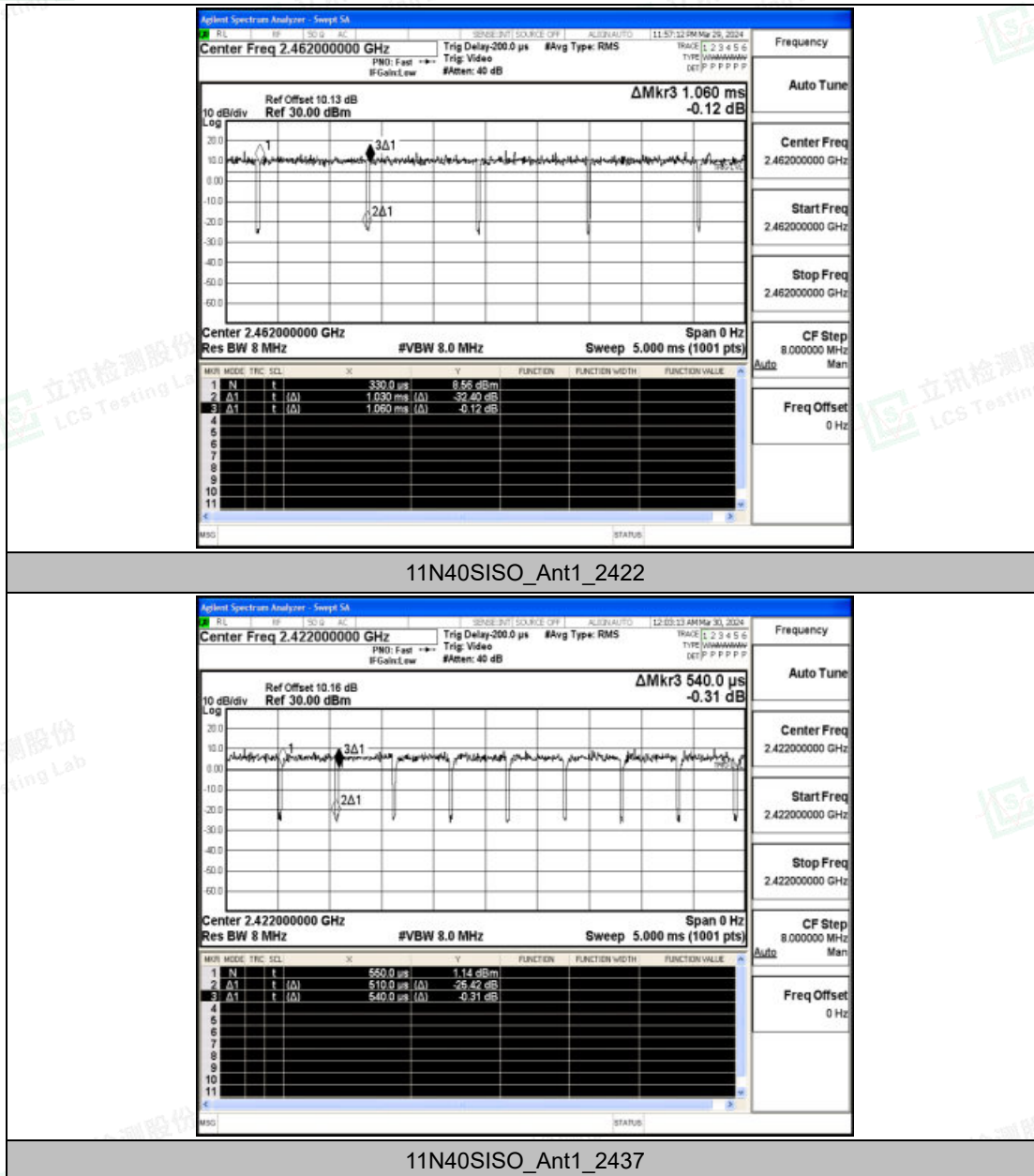


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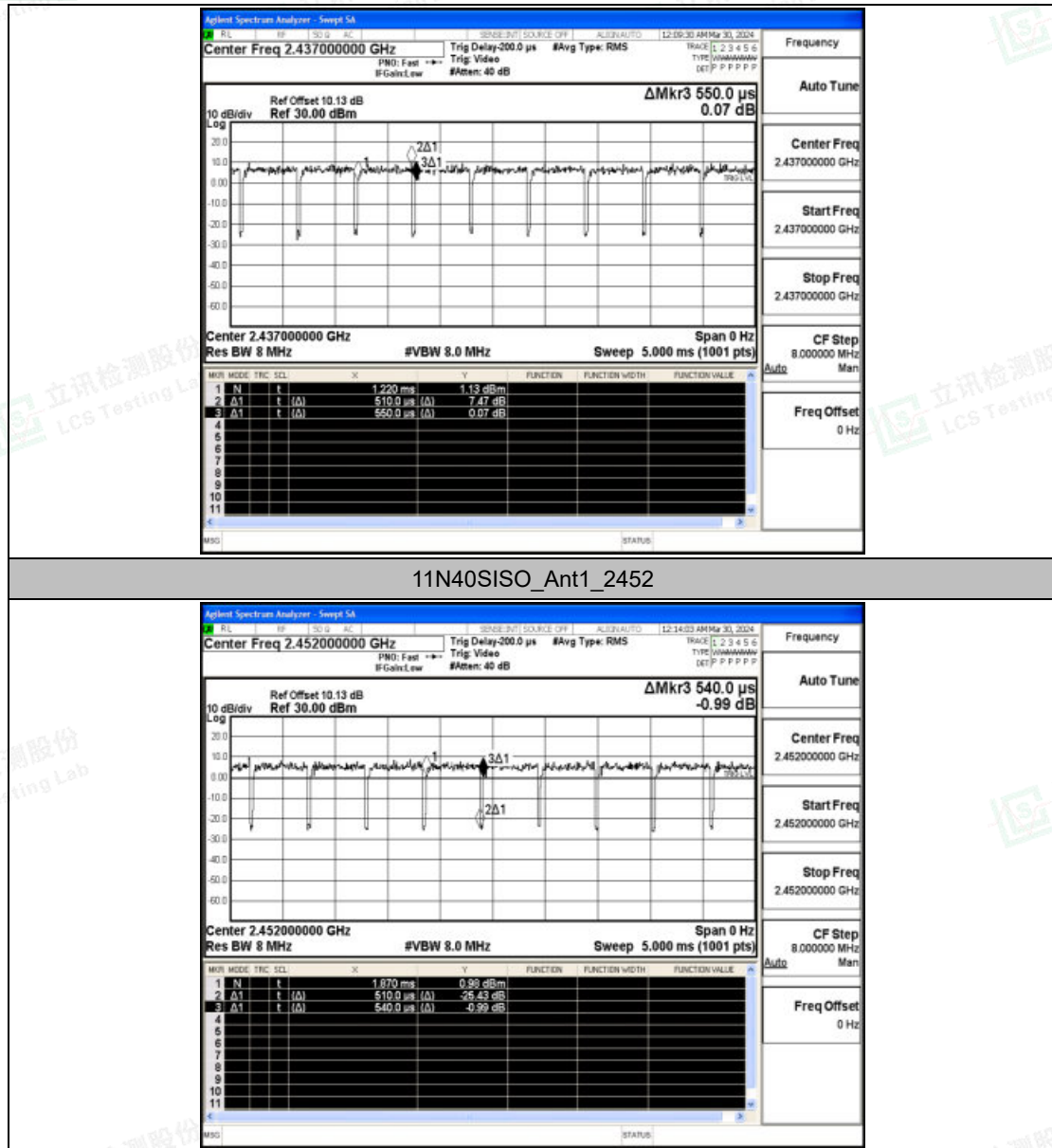


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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2384.760	-46.79	≤-41.20	48.41	≤54	PASS
				AV	2390.000	-47.44	≤-41.20	47.76	≤54	PASS
				Peak	2310.000	-38.42	≤-21.20	56.78	≤74	PASS
				Peak	2340.820	-36.05	≤-21.20	59.15	≤74	PASS
				Peak	2390.000	-40.5	≤-21.20	54.70	≤74	PASS
		High	2462	AV	2483.500	-47.79	≤-41.20	47.41	≤54	PASS
				AV	2499.070	-46.39	≤-41.20	48.81	≤54	PASS
				AV	2500.000	-47.62	≤-41.20	47.58	≤54	PASS
				Peak	2483.500	-39.45	≤-21.20	55.75	≤74	PASS
				Peak	2497.750	-36.86	≤-21.20	58.34	≤74	PASS
				Peak	2500.000	-39.58	≤-21.20	55.62	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-47.74	≤-41.20	47.46	≤54	PASS
				AV	2389.310	-46.47	≤-41.20	48.73	≤54	PASS
				AV	2390.000	-46.76	≤-41.20	48.44	≤54	PASS
				Peak	2310.000	-40.95	≤-21.20	54.25	≤74	PASS
				Peak	2389.700	-36.75	≤-21.20	58.45	≤74	PASS
				Peak	2390.000	-38.27	≤-21.20	56.93	≤74	PASS
		High	2462	AV	2483.500	-45.34	≤-41.20	49.86	≤54	PASS
				AV	2483.890	-45.05	≤-41.20	50.15	≤54	PASS
				AV	2500.000	-46.78	≤-41.20	48.42	≤54	PASS
				Peak	2483.500	-35.66	≤-21.20	59.54	≤74	PASS
				Peak	2485.210	-35.29	≤-21.20	59.91	≤74	PASS
				Peak	2500.000	-39.4	≤-21.20	55.80	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-47.92	≤-41.20	47.28	≤54	PASS
				AV	2376.050	-46.42	≤-41.20	48.78	≤54	PASS
				AV	2390.000	-46.83	≤-41.20	48.37	≤54	PASS
				Peak	2310.000	-39.27	≤-21.20	55.93	≤74	PASS
				Peak	2338.610	-36.6	≤-21.20	58.60	≤74	PASS
				Peak	2390.000	-38.59	≤-21.20	56.61	≤74	PASS
		High	2462	AV	2483.500	-47.12	≤-41.20	48.08	≤54	PASS
				AV	2497.860	-46.28	≤-41.20	48.92	≤54	PASS
				AV	2500.000	-47.09	≤-41.20	48.11	≤54	PASS
				Peak	2483.500	-39.1	≤-21.20	56.10	≤74	PASS
				Peak	2483.890	-35.86	≤-21.20	59.34	≤74	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.

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11N40SI SO	Ant1	Low	2422	Peak	2500.000	-40.28	≤ -21.20	54.92	≤ 74	PASS
				AV	2310.000	-47.53	≤ -41.20	47.67	≤ 54	PASS
				AV	2389.180	-46.03	≤ -41.20	49.17	≤ 54	PASS
				AV	2390.000	-46.55	≤ -41.20	48.65	≤ 54	PASS
				Peak	2310.000	-41.34	≤ -21.20	53.86	≤ 74	PASS
				Peak	2382.680	-36.94	≤ -21.20	58.26	≤ 74	PASS
		High	2452	Peak	2390.000	-39.59	≤ -21.20	55.61	≤ 74	PASS
				AV	2483.500	-46.58	≤ -41.20	48.62	≤ 54	PASS
				AV	2485.210	-46.04	≤ -41.20	49.16	≤ 54	PASS
				AV	2500.000	-47.09	≤ -41.20	48.11	≤ 54	PASS
				Peak	2483.500	-38.54	≤ -21.20	56.66	≤ 74	PASS
				Peak	2492.250	-36.21	≤ -21.20	58.99	≤ 74	PASS
				Peak	2500.000	-40.48	≤ -21.20	54.72	≤ 74	PASS

Note:

1. The Antenna Gain is compensated in the graph. The Correction Factor 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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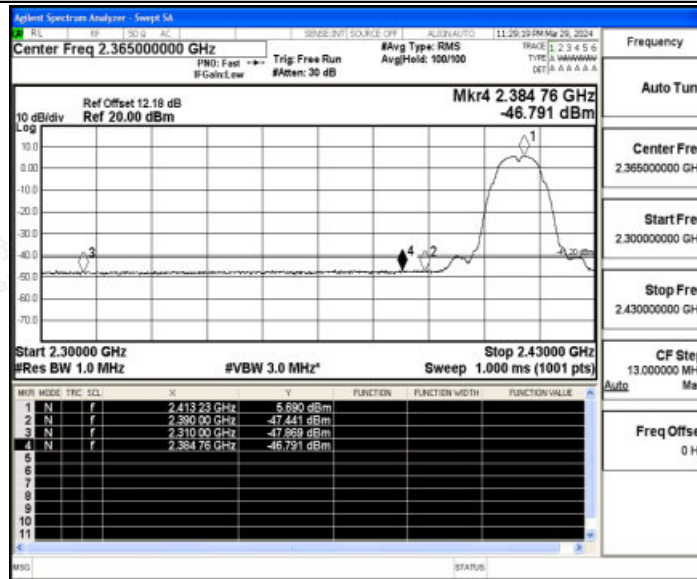
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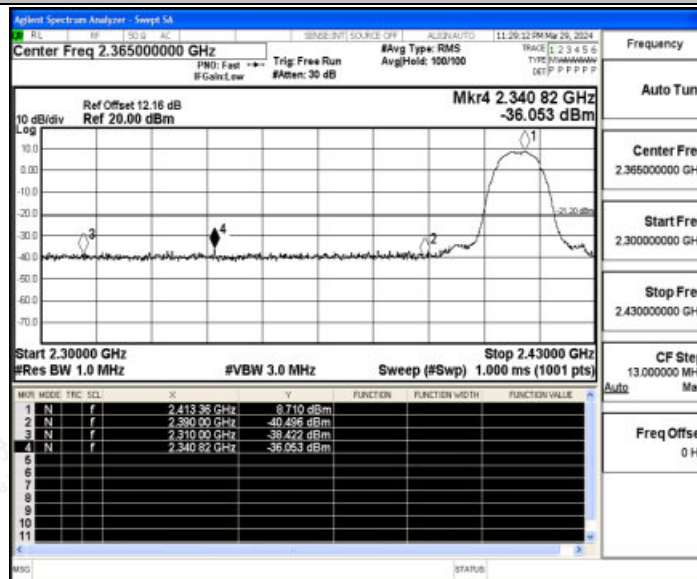


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV

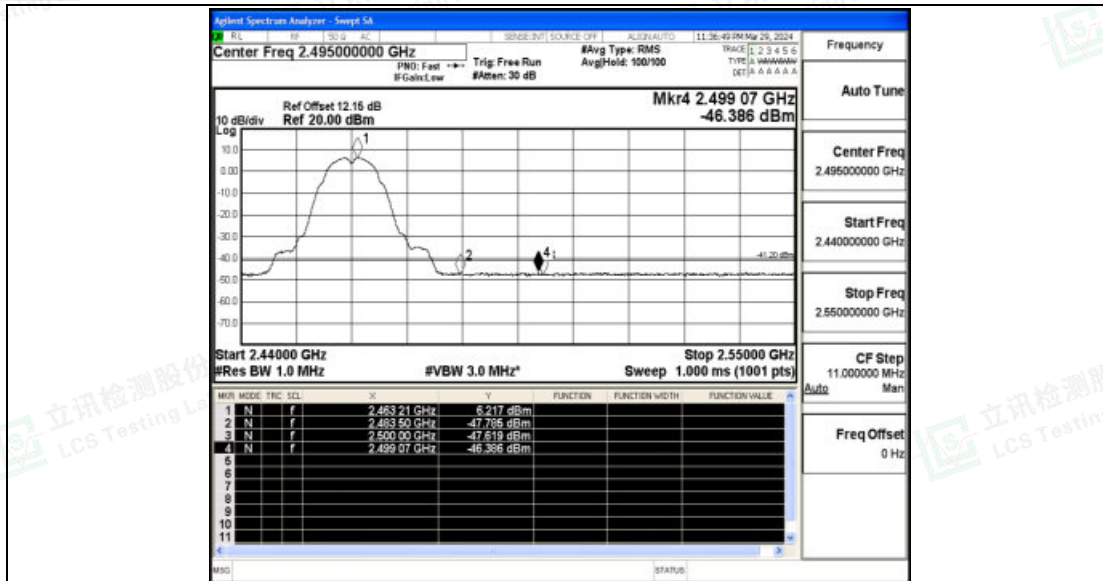


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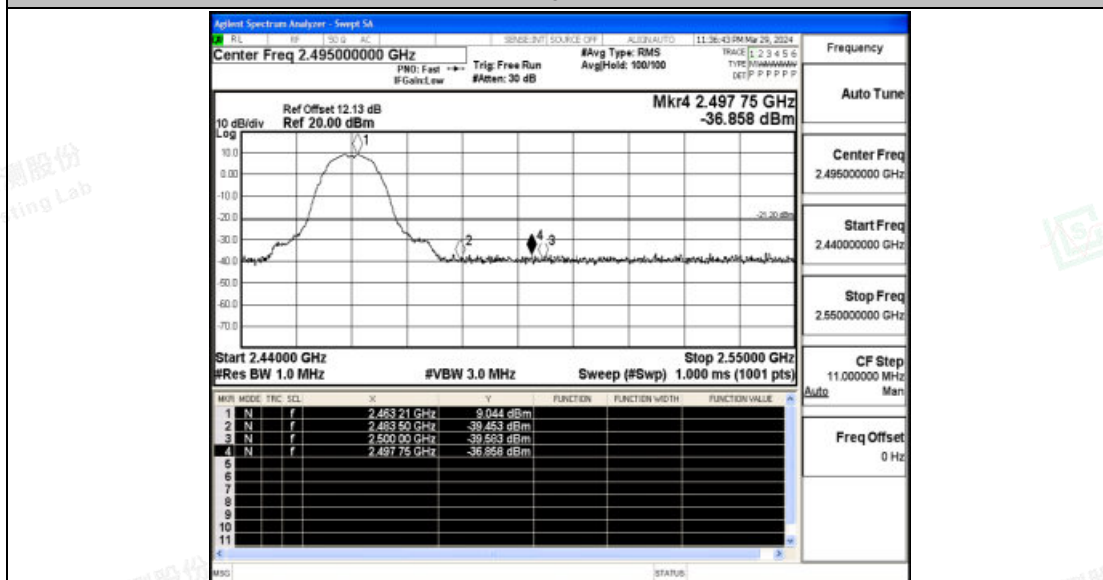
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11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV

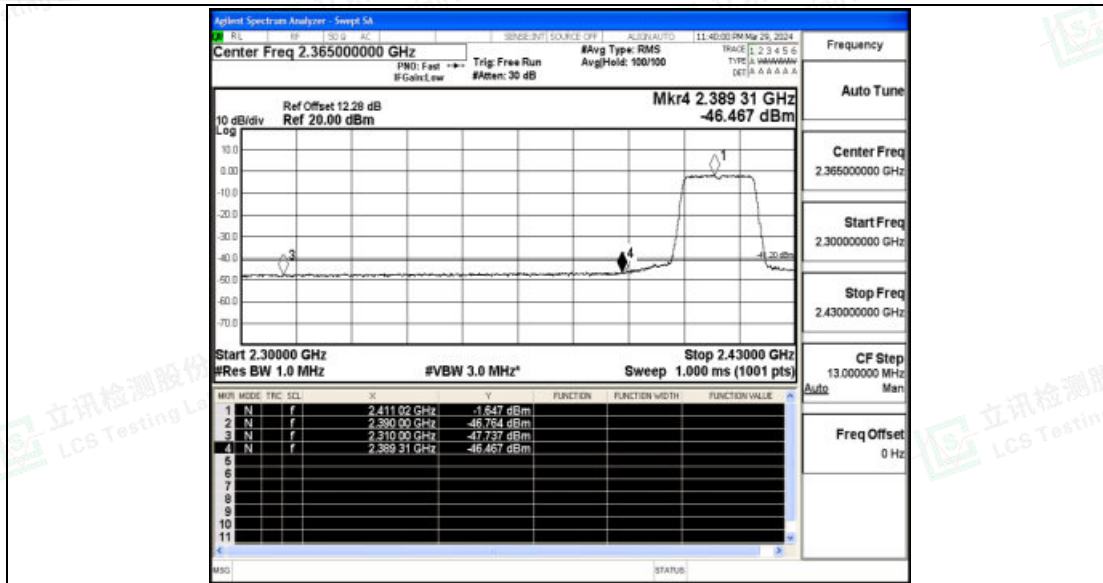


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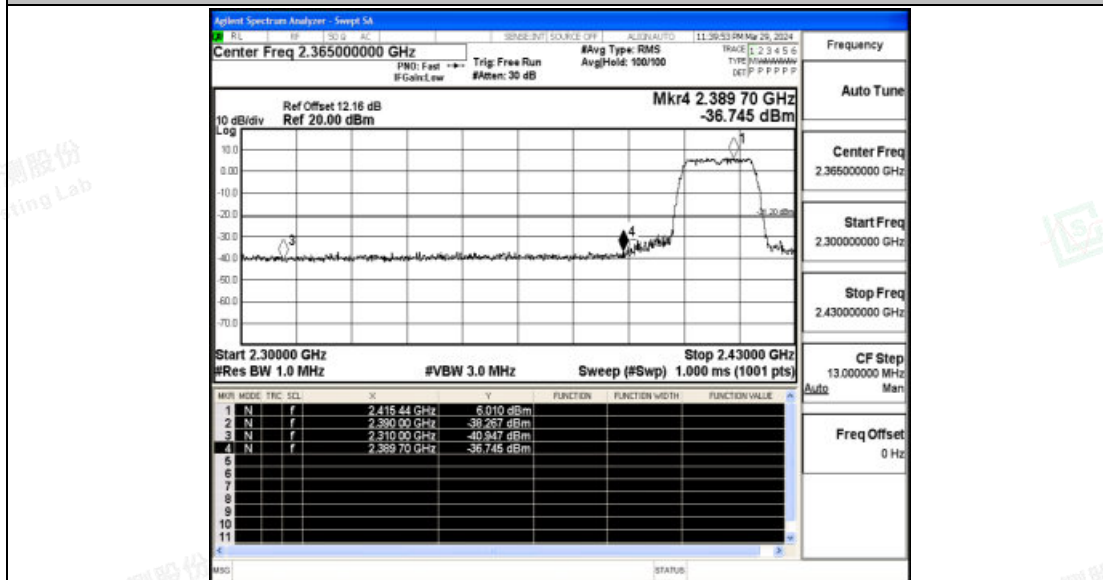
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11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV

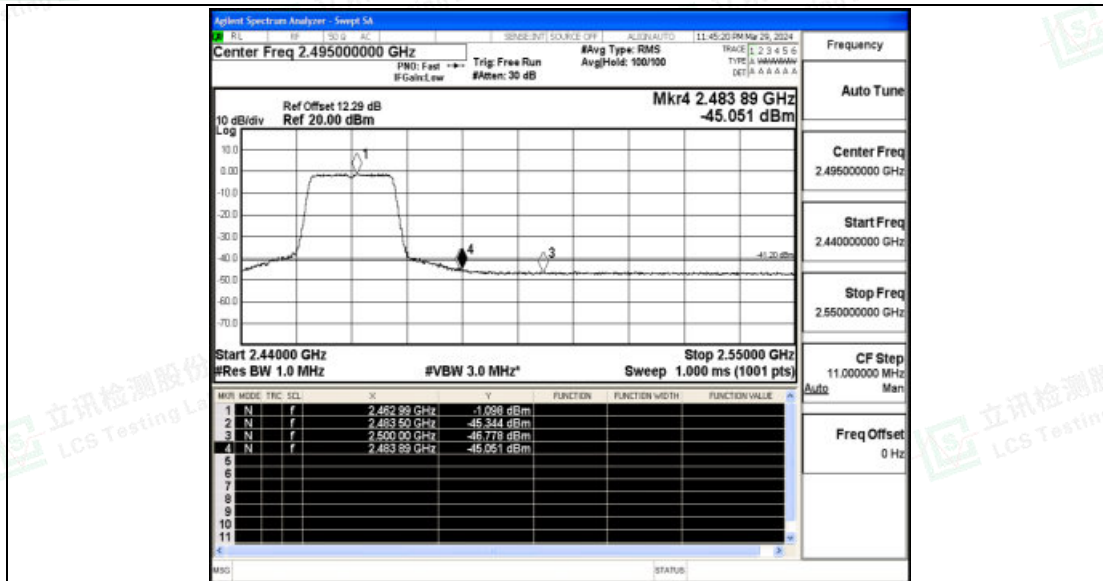


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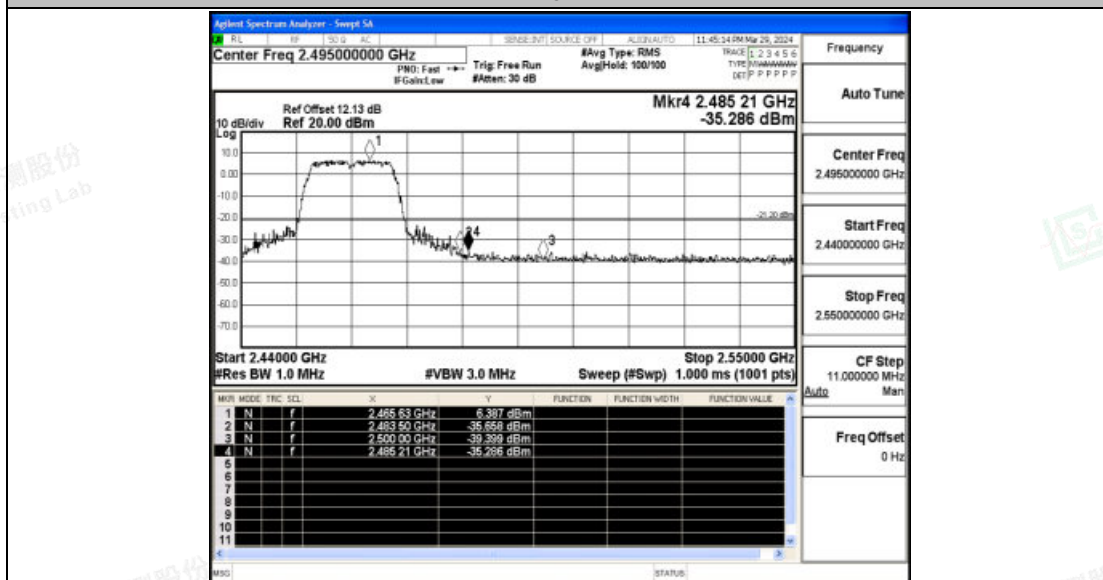
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11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

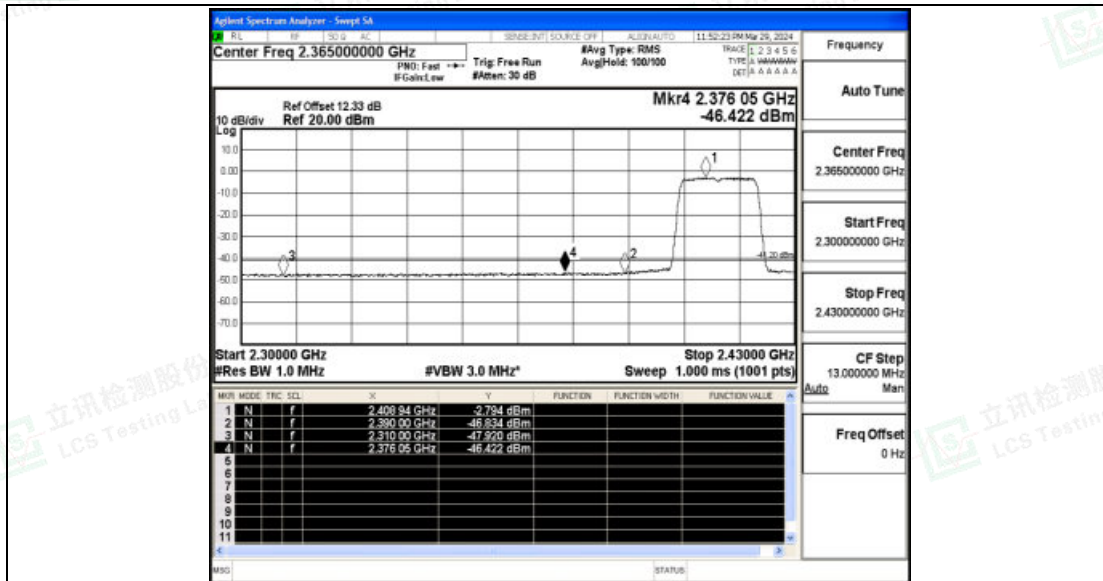


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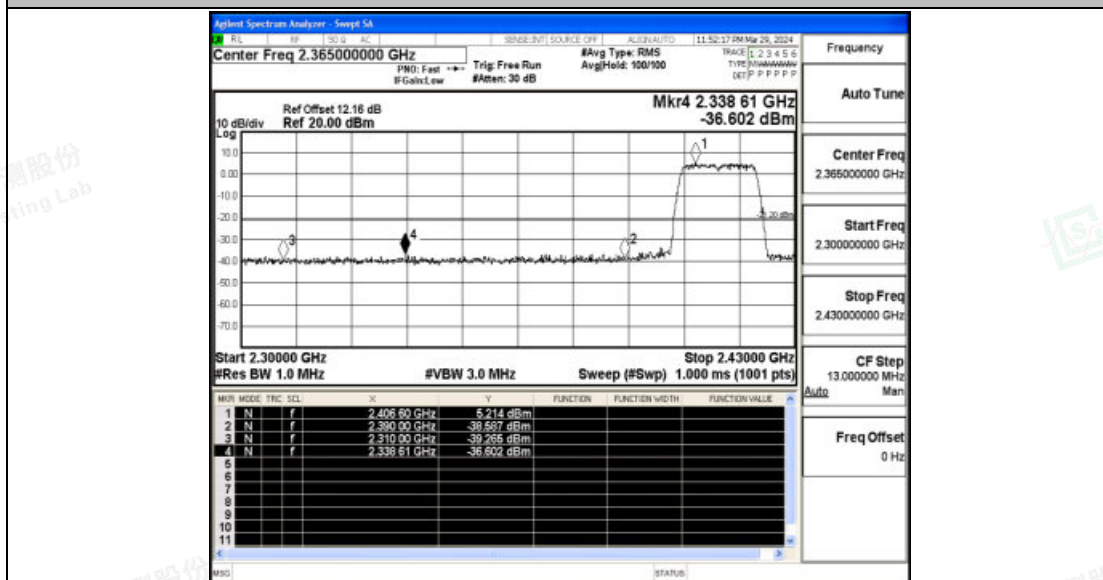
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11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV

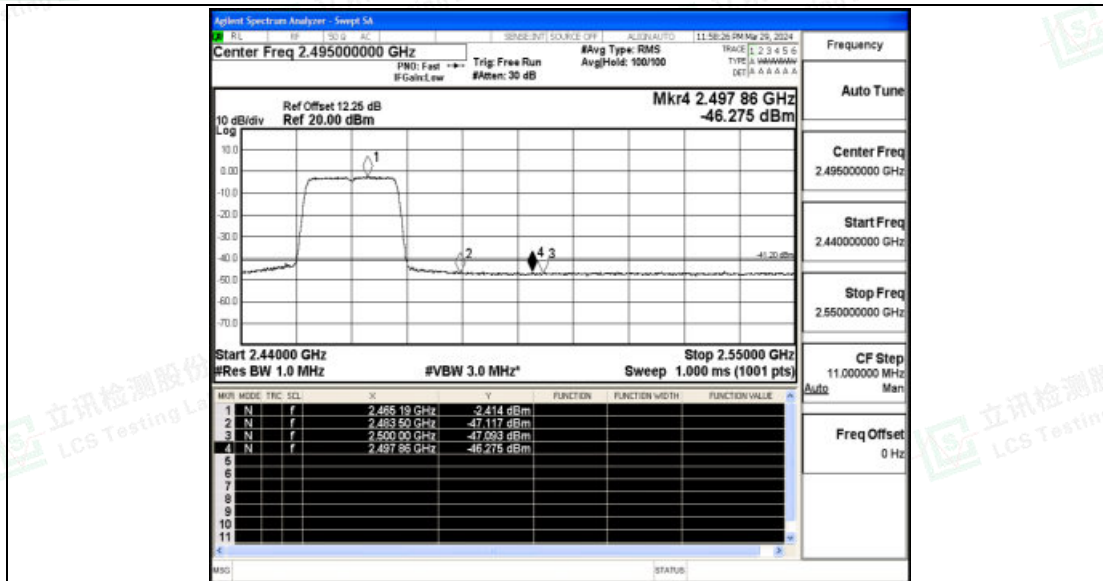


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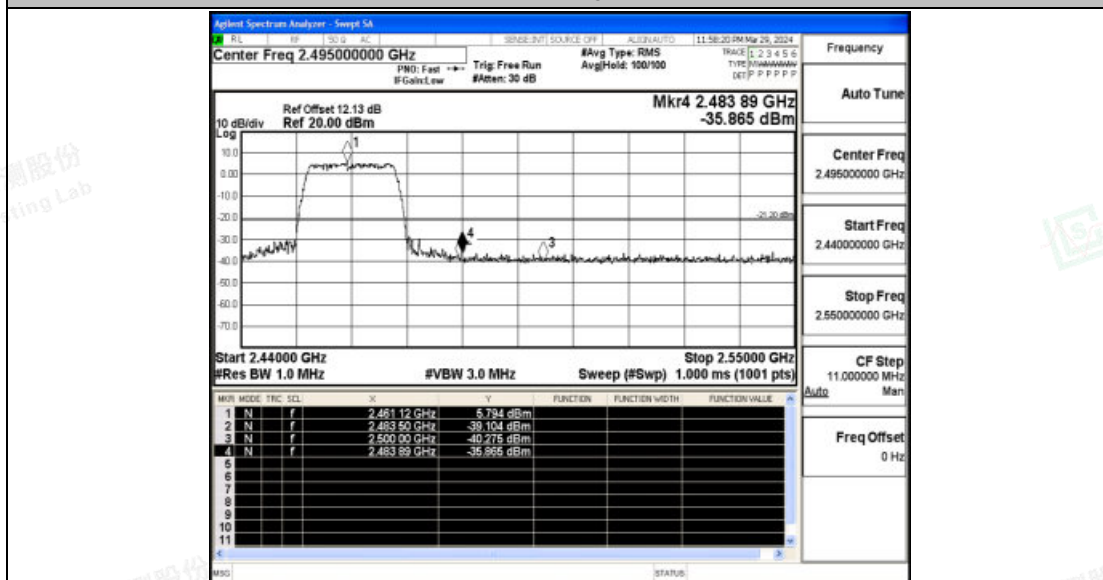
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11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV

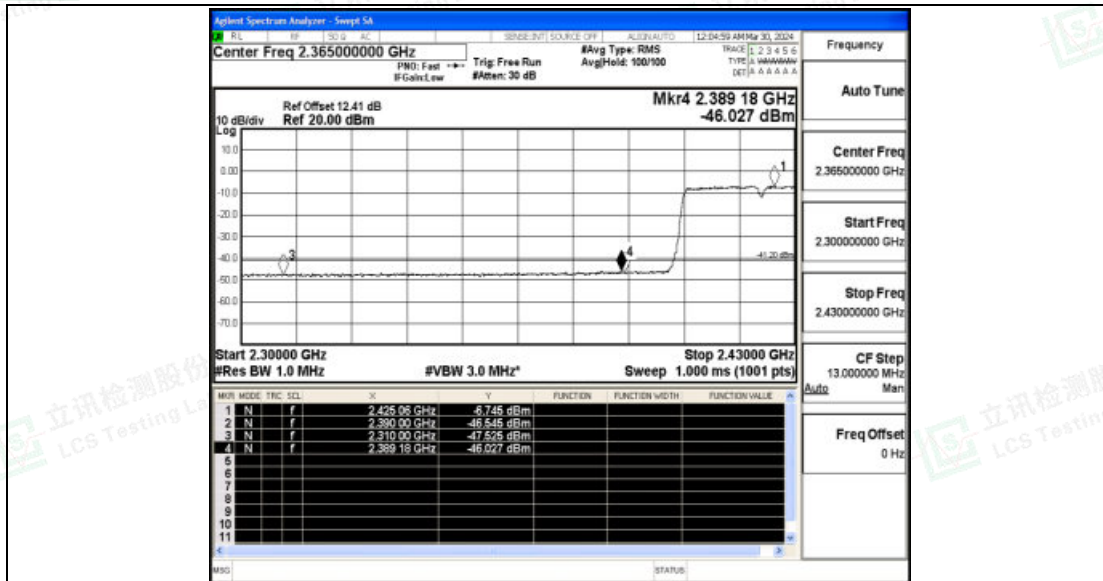


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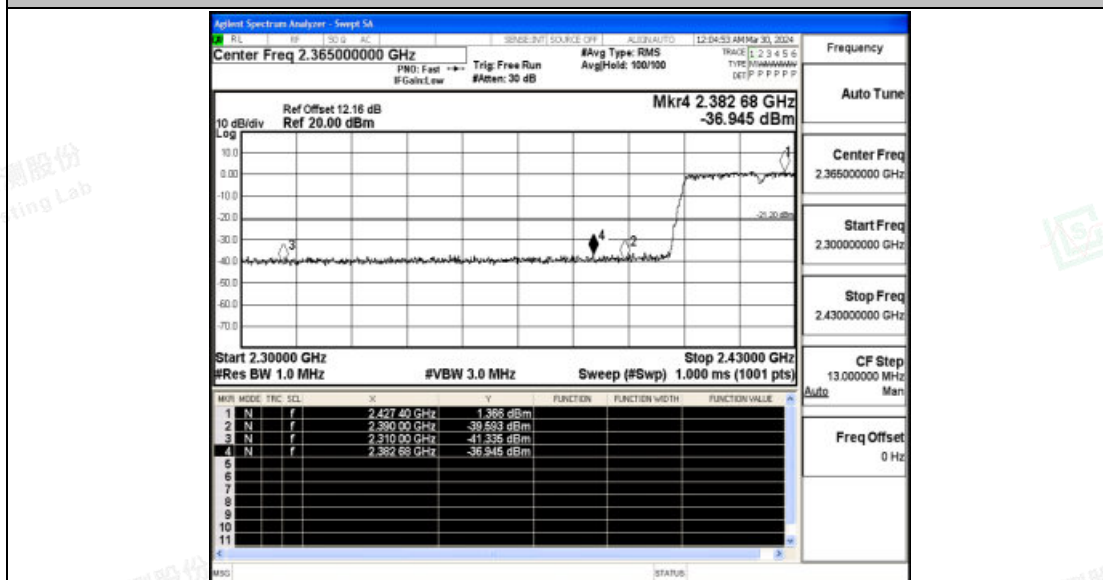
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11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

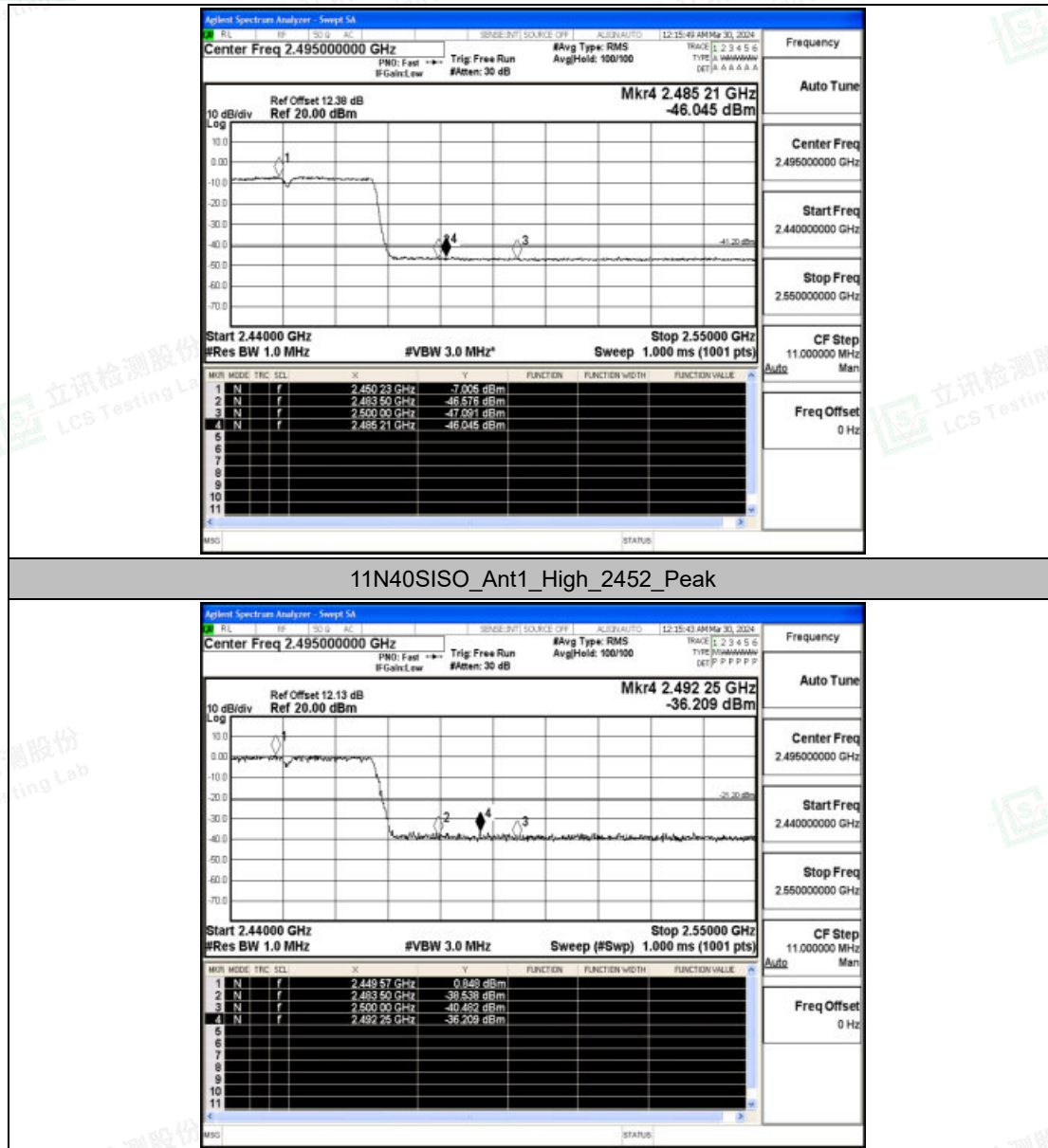


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