



Appendix B

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: Pet feeder

Test Model: CH-IAF003

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Eason Zhou
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	Ant	2412	9.040	2407.480	2416.520	0.5	PASS
		2437	9.560	2431.960	2441.520	0.5	PASS
		2462	9.560	2456.960	2466.520	0.5	PASS
11G	Ant	2412	15.520	2404.240	2419.760	0.5	PASS
		2437	13.160	2429.440	2442.600	0.5	PASS
		2462	16.240	2453.880	2470.120	0.5	PASS
11N20SISO	Ant	2412	13.920	2405.640	2419.560	0.5	PASS
		2437	14.440	2429.440	2443.880	0.5	PASS
		2462	16.080	2454.440	2470.520	0.5	PASS





Test Graphs

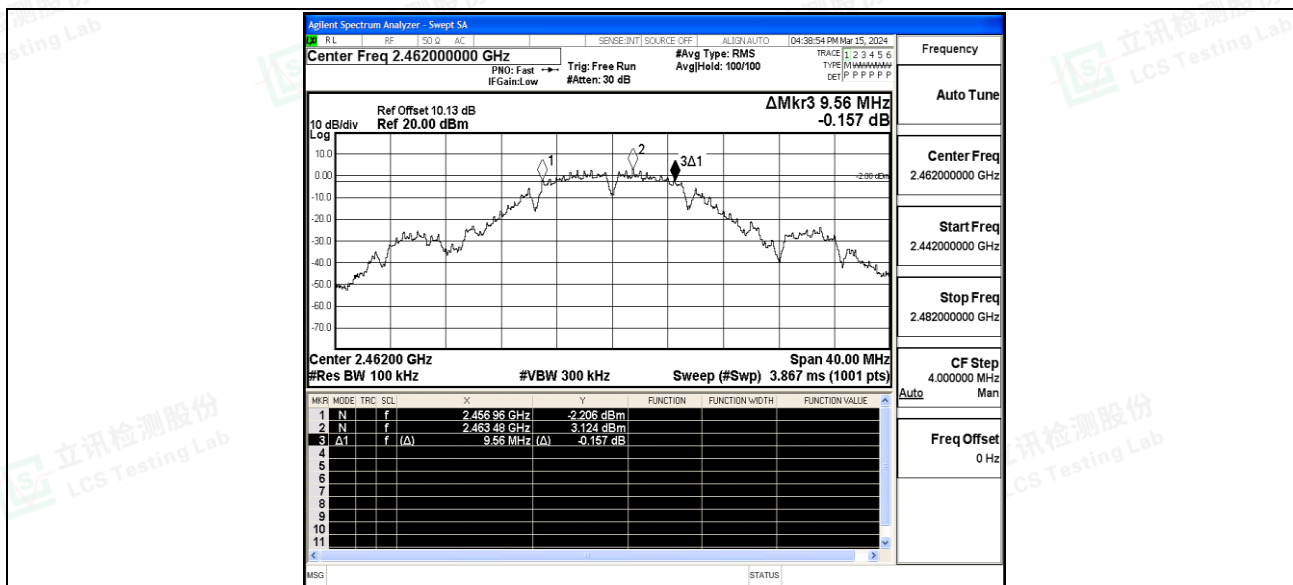


Shenzhen LCS Compliance Testing Laboratory Ltd.

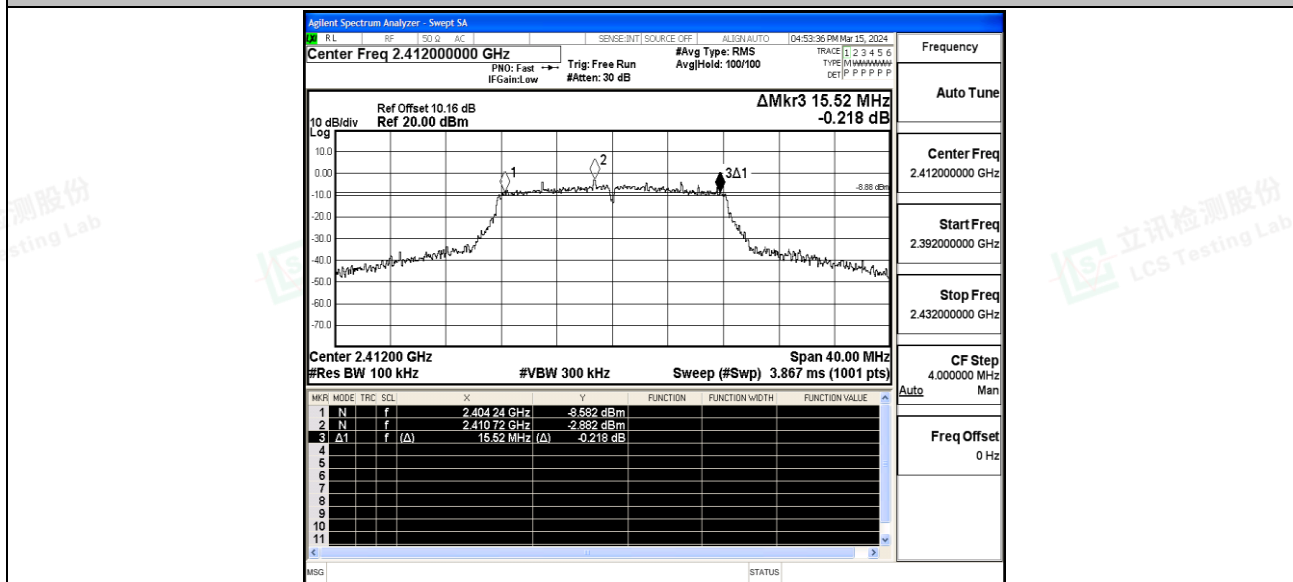
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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11G_Ant_2412



11G_Ant_2437

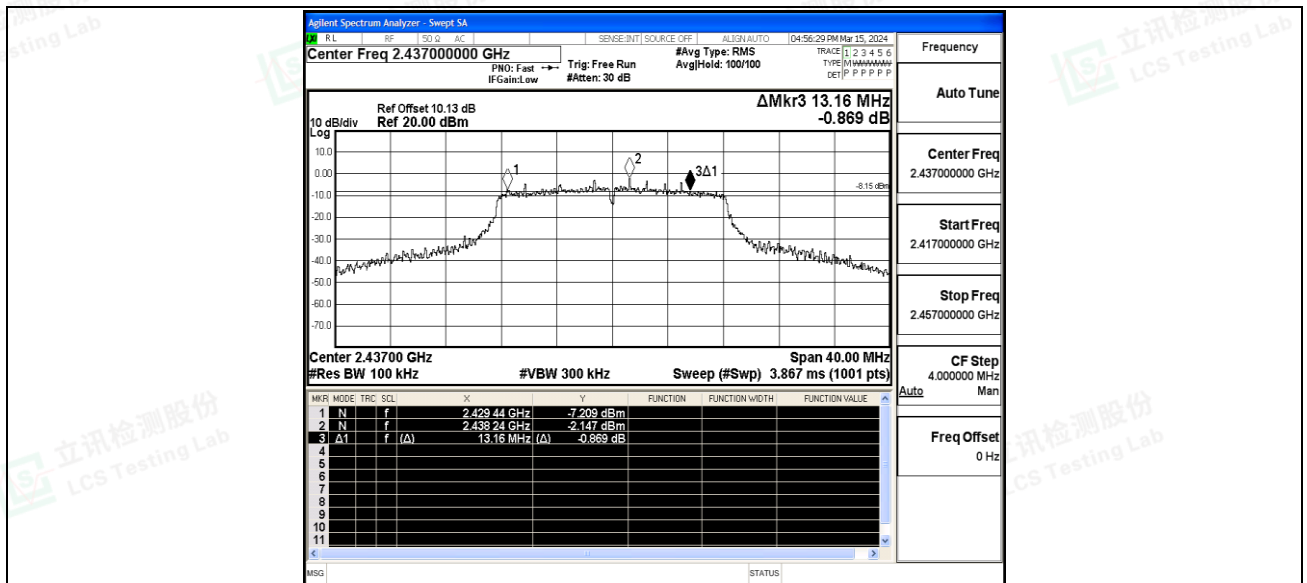


Shenzhen LCS Compliance Testing Laboratory Ltd.

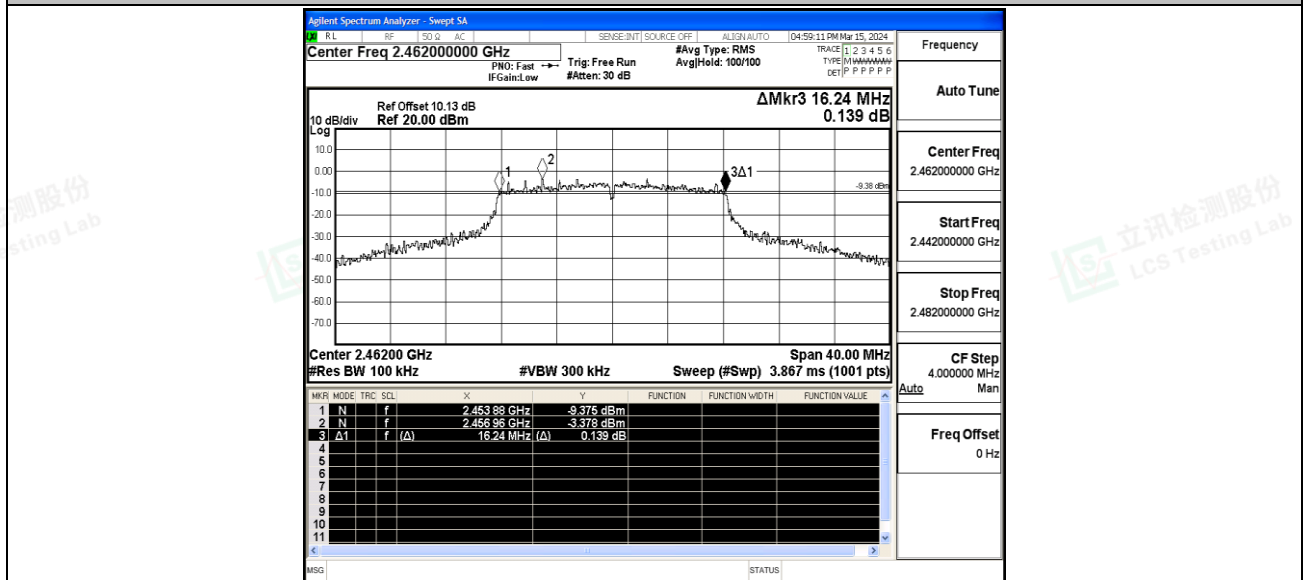
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant_2462



11N20SISO_Ant_2412

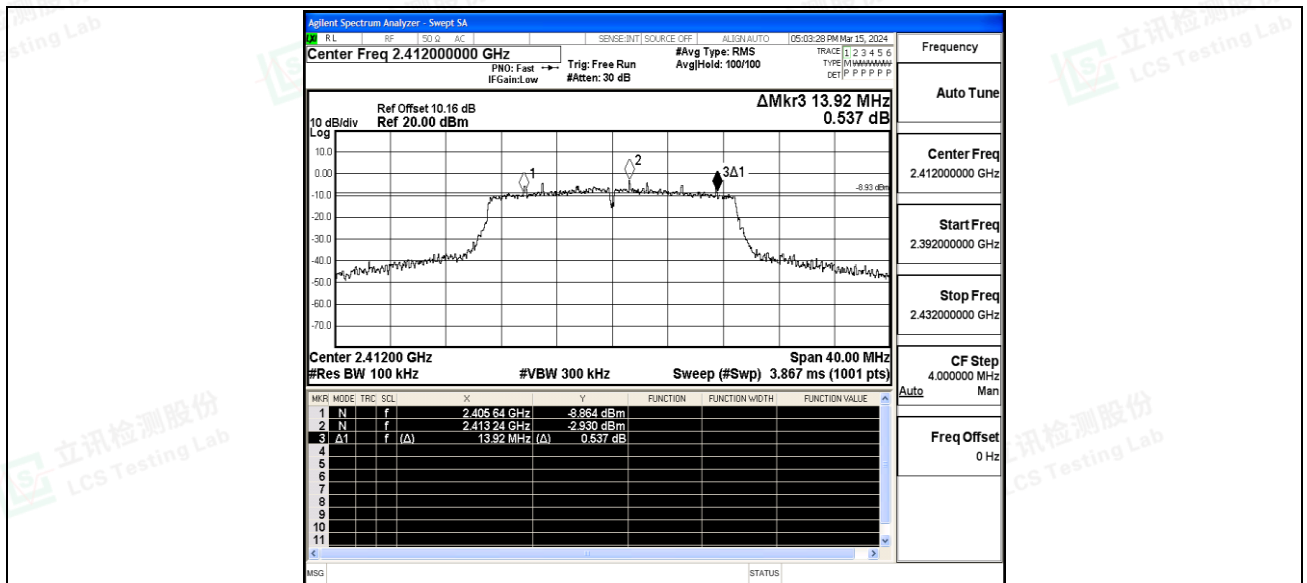


Shenzhen LCS Compliance Testing Laboratory Ltd.

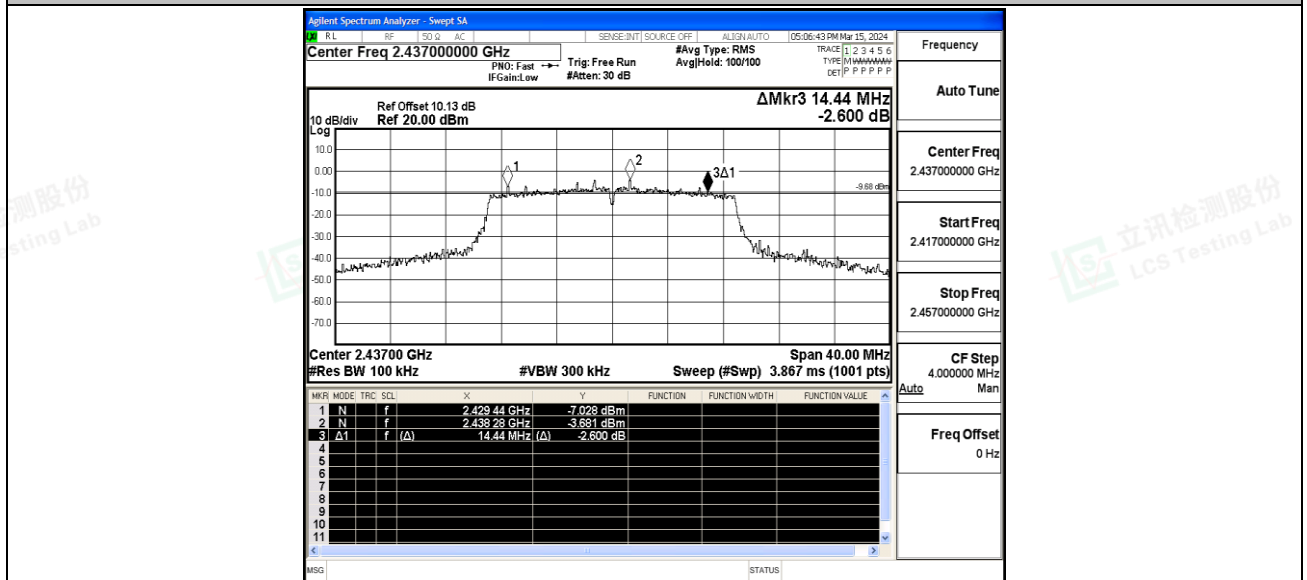
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_2437



11N20SISO_Ant_2462

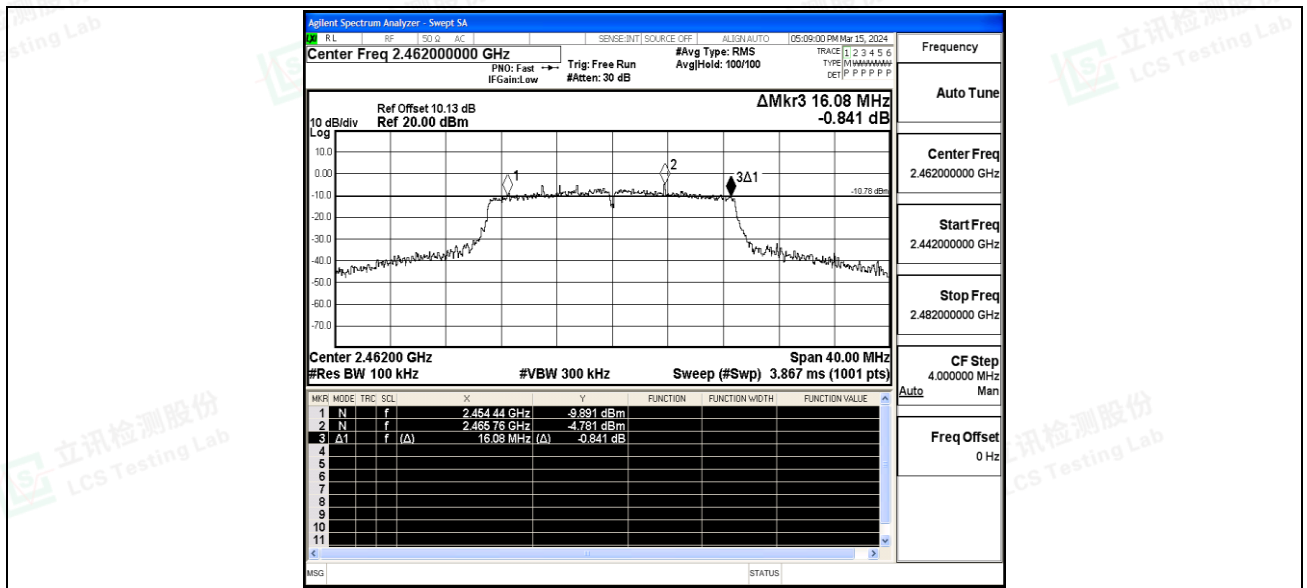


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B.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant	2412	15.15	≤30.00	PASS
		2437	14.92	≤30.00	PASS
		2462	15.17	≤30.00	PASS
11G	Ant	2412	14.43	≤30.00	PASS
		2437	14.00	≤30.00	PASS
		2462	14.51	≤30.00	PASS
11N20SISO	Ant	2412	13.61	≤30.00	PASS
		2437	13.02	≤30.00	PASS
		2462	12.94	≤30.00	PASS





B.3 Maximum power spectral density

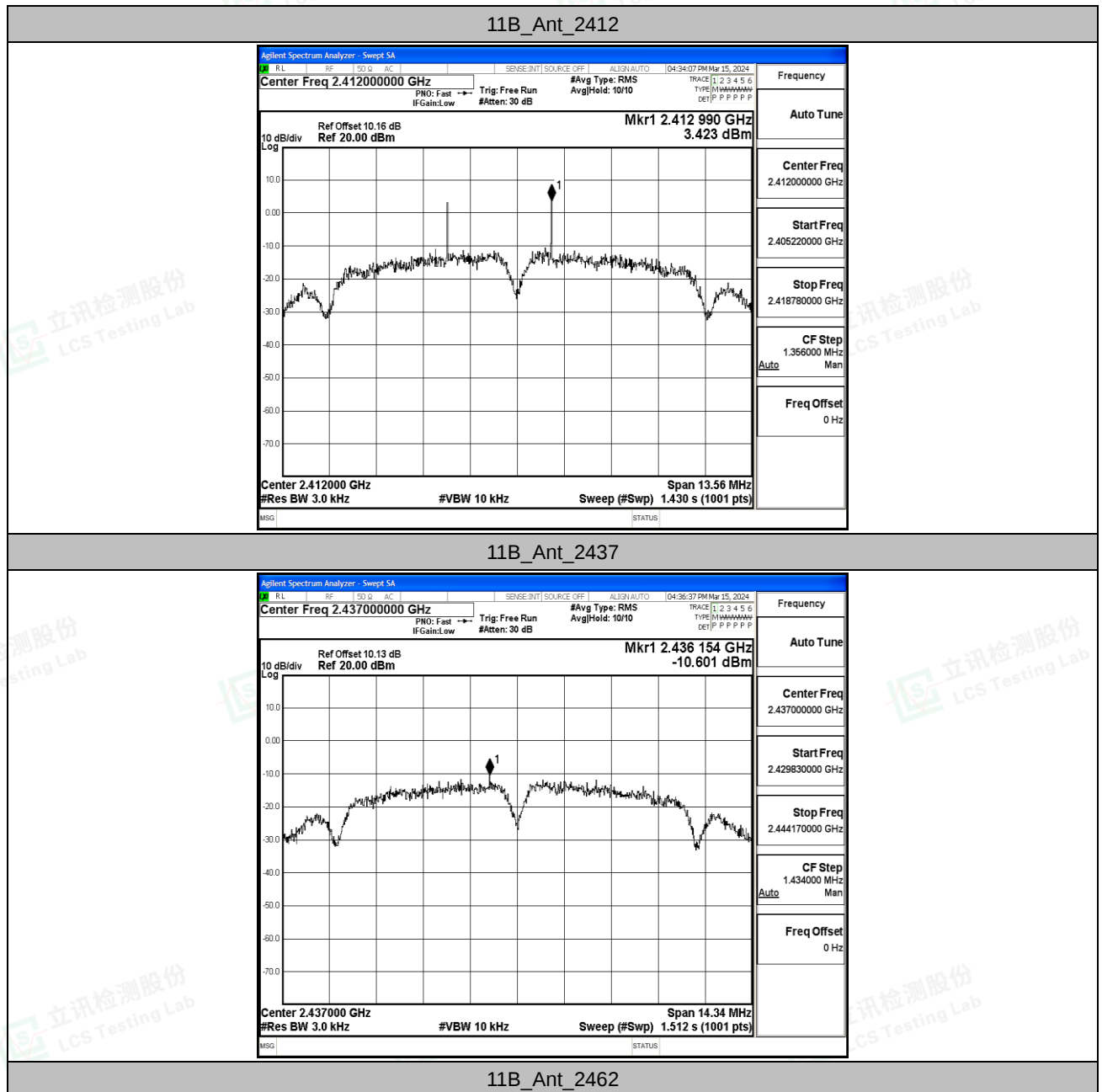
Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant	2412	3.42	≤8.00	PASS
		2437	-10.60	≤8.00	PASS
		2462	-10.84	≤8.00	PASS
11G	Ant	2412	-16.37	≤8.00	PASS
		2437	-17.21	≤8.00	PASS
		2462	-15.56	≤8.00	PASS
11N20SISO	Ant	2412	-16.92	≤8.00	PASS
		2437	-17.18	≤8.00	PASS
		2462	-16.96	≤8.00	PASS





Test Graphs

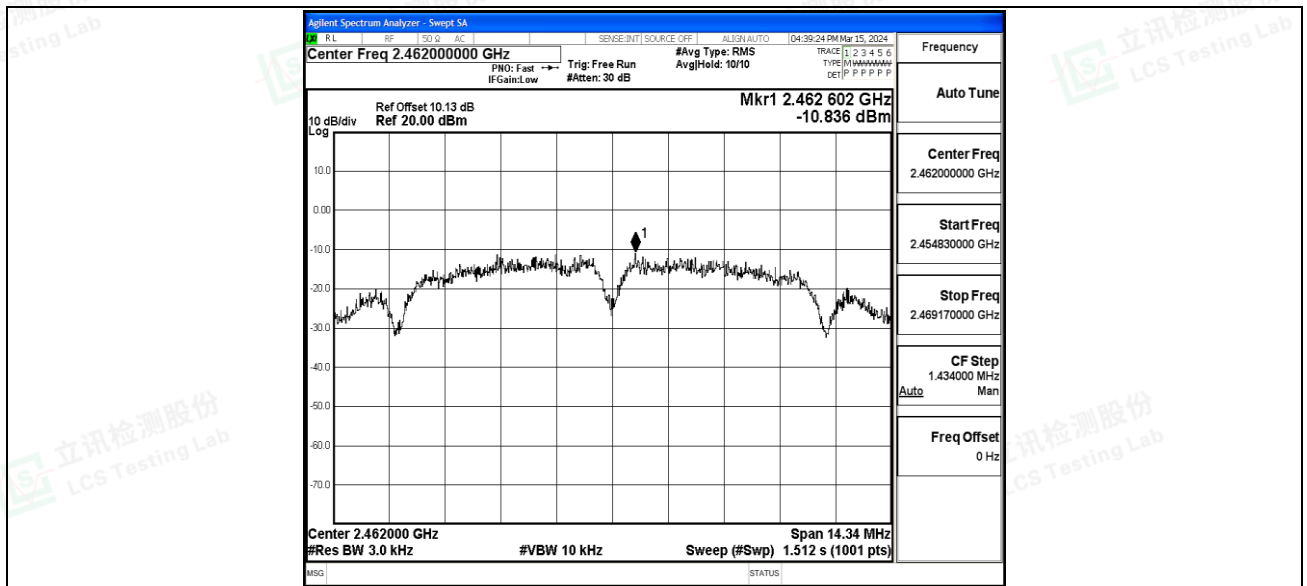


Shenzhen LCS Compliance Testing Laboratory Ltd.

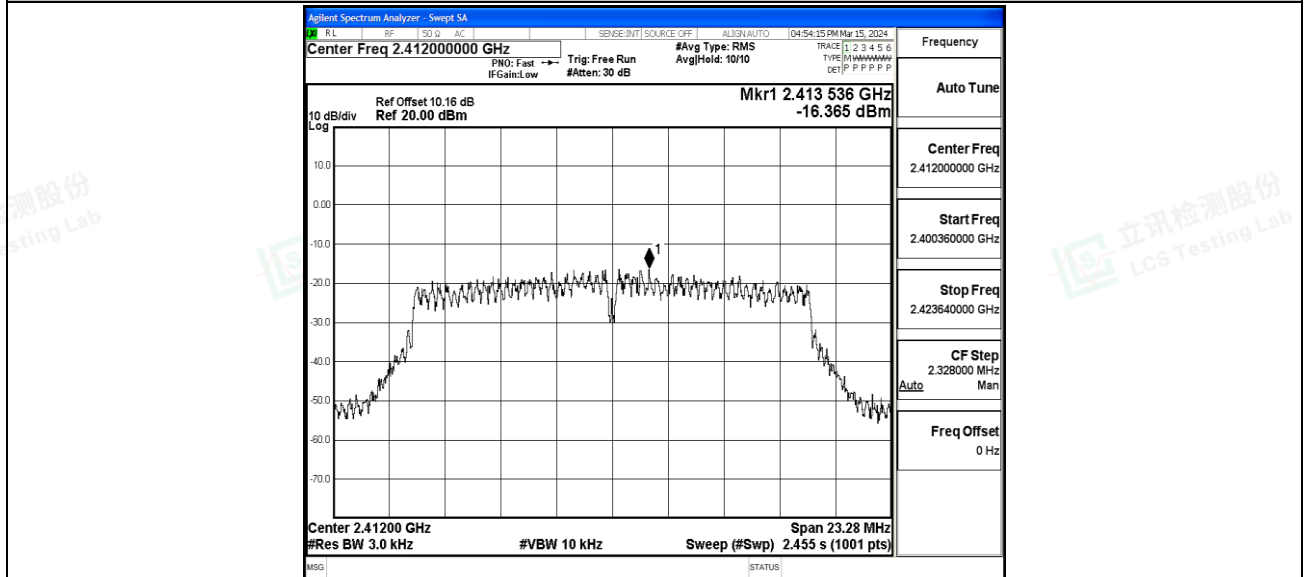
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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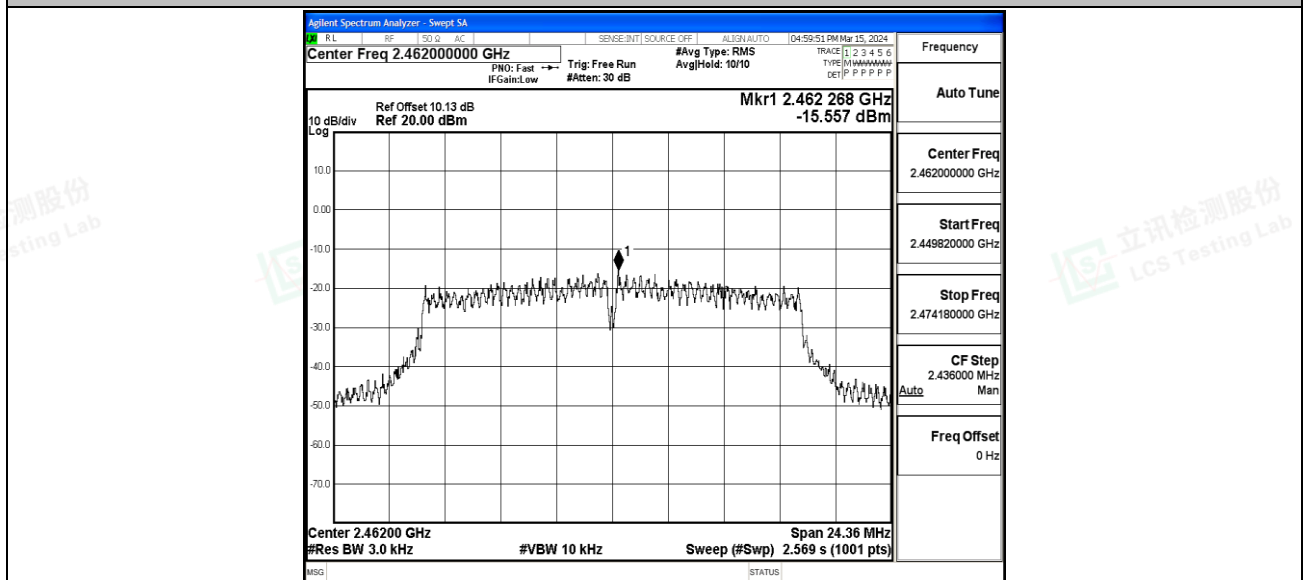
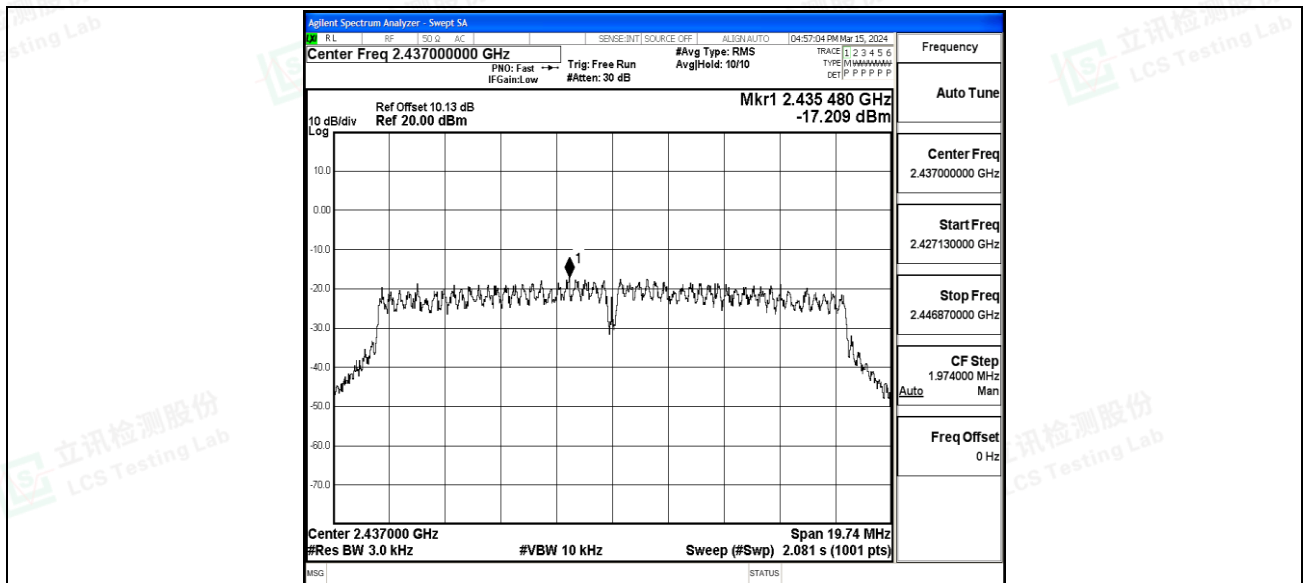


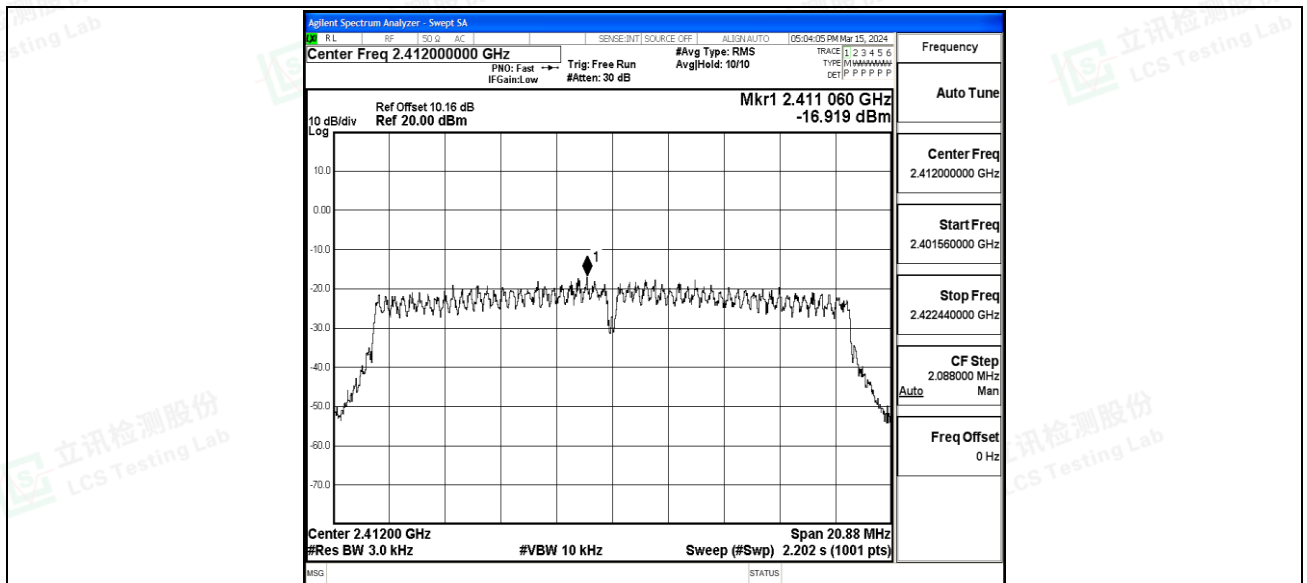
11G_Ant_2412



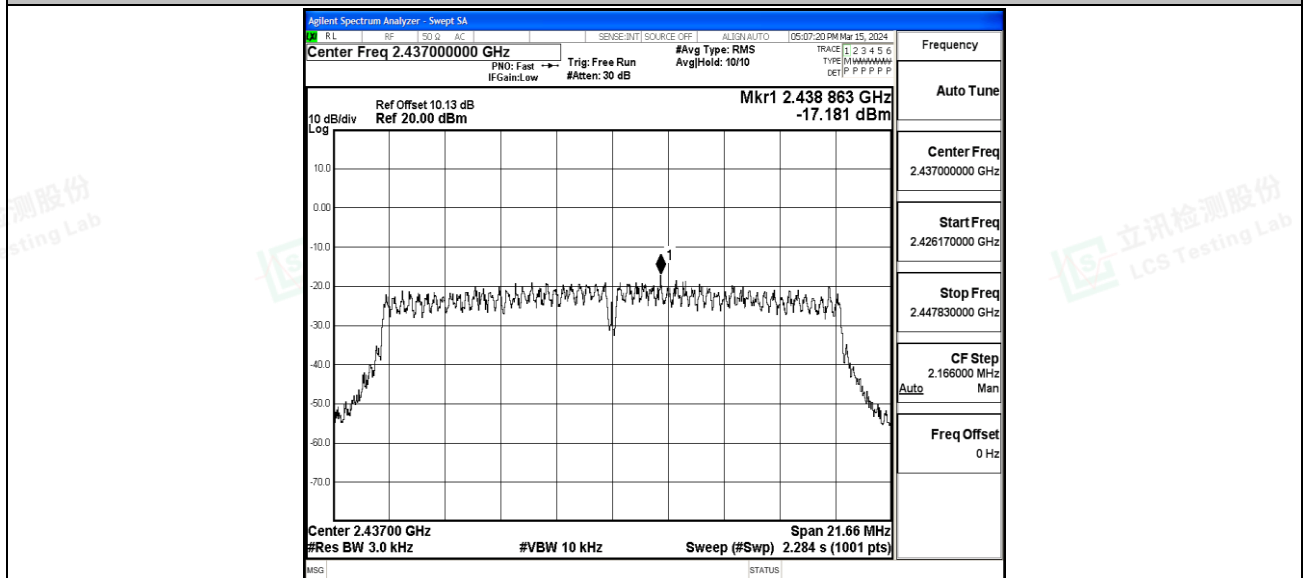
11G_Ant_2437







11N20SISO_Ant_2437



11N20SISO_Ant_2462

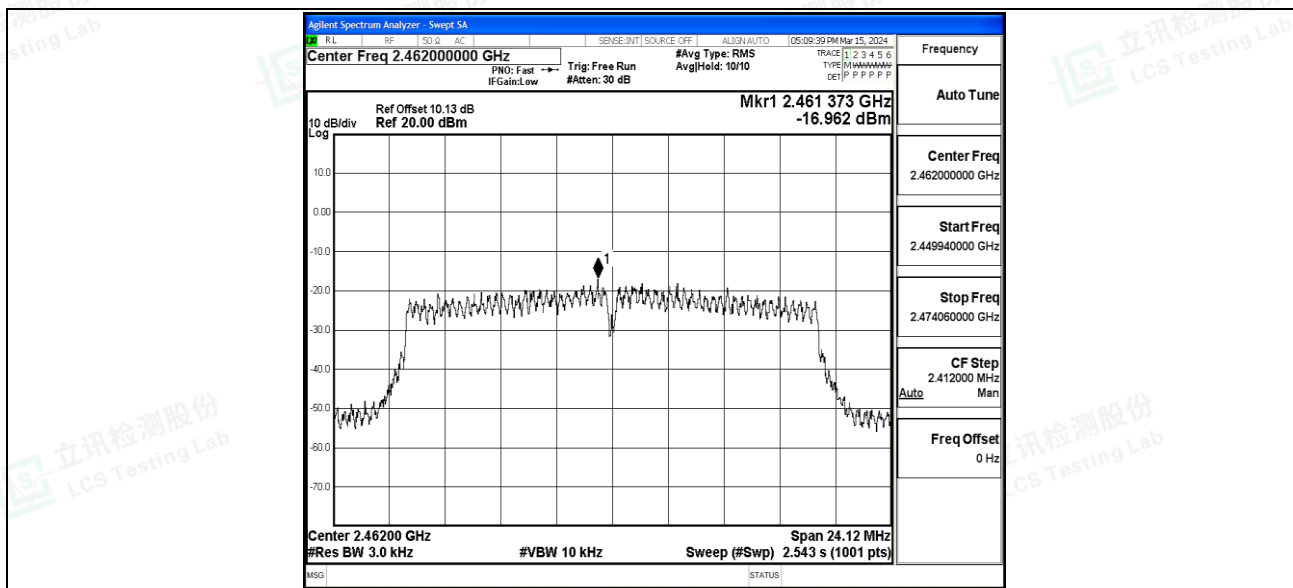


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B.4 Band edge measurements

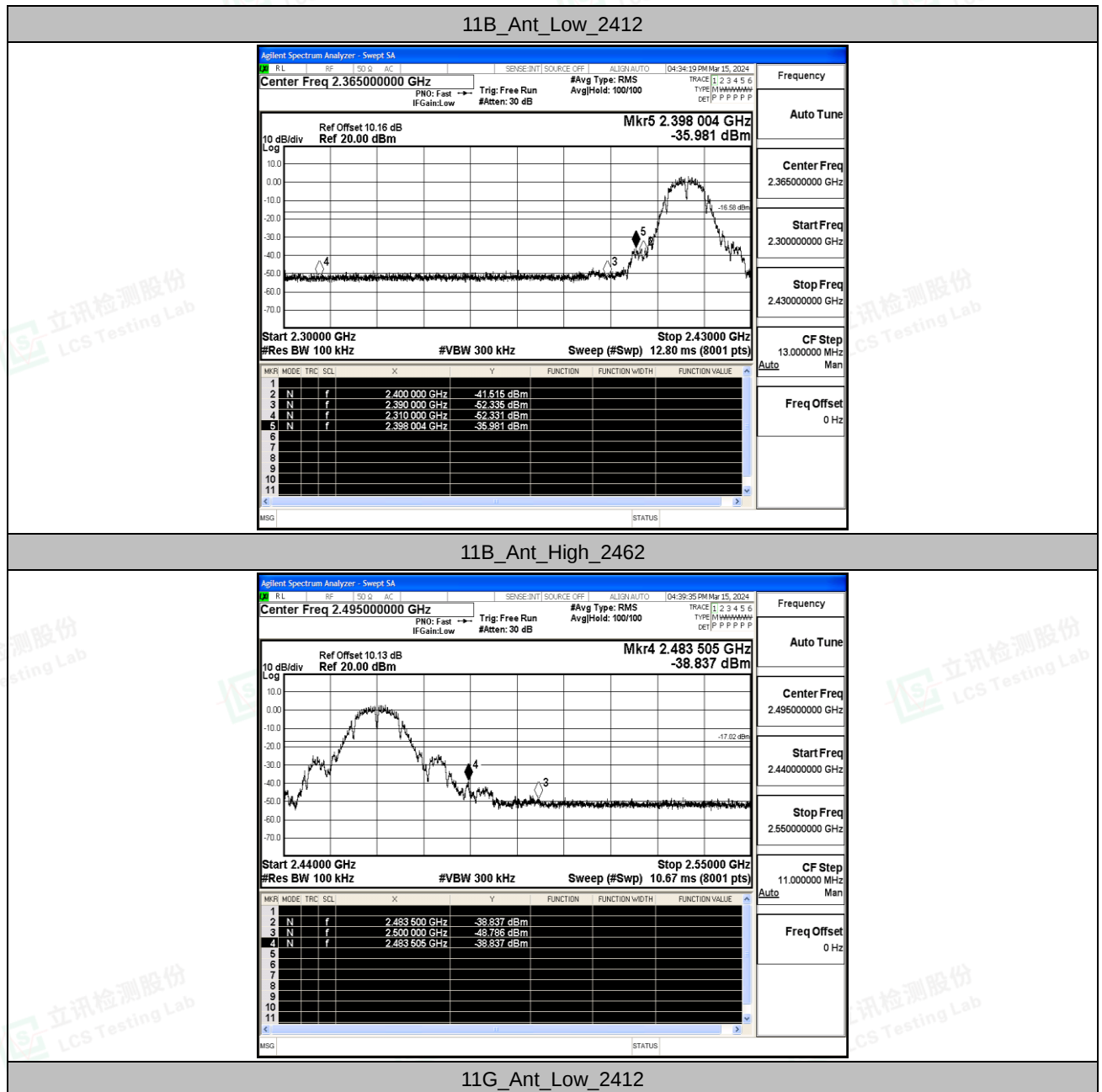
Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	3.42	-35.98	≤ -16.58	PASS
		High	2462	2.98	-38.84	≤ -17.02	PASS
11G	Ant	Low	2412	-1.78	-35.01	≤ -21.78	PASS
		High	2462	-2.84	-42.34	≤ -22.84	PASS
11N20SISO	Ant	Low	2412	-2.84	-36.05	≤ -22.84	PASS
		High	2462	-3.37	-44.82	≤ -23.37	PASS





Test Graphs

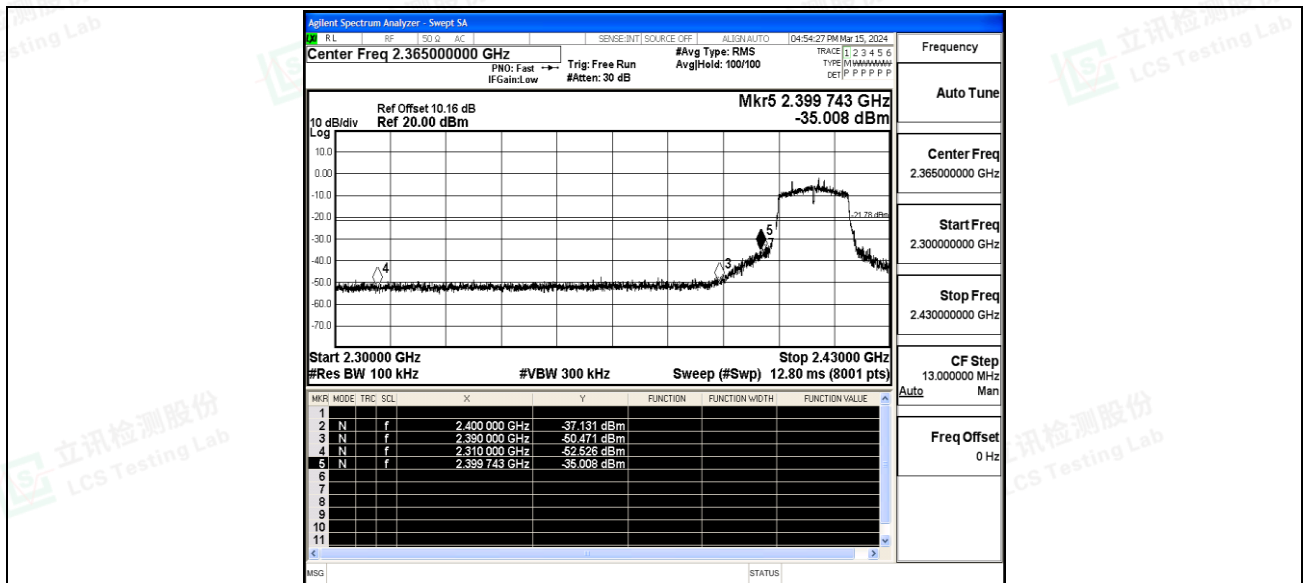


Shenzhen LCS Compliance Testing Laboratory Ltd.

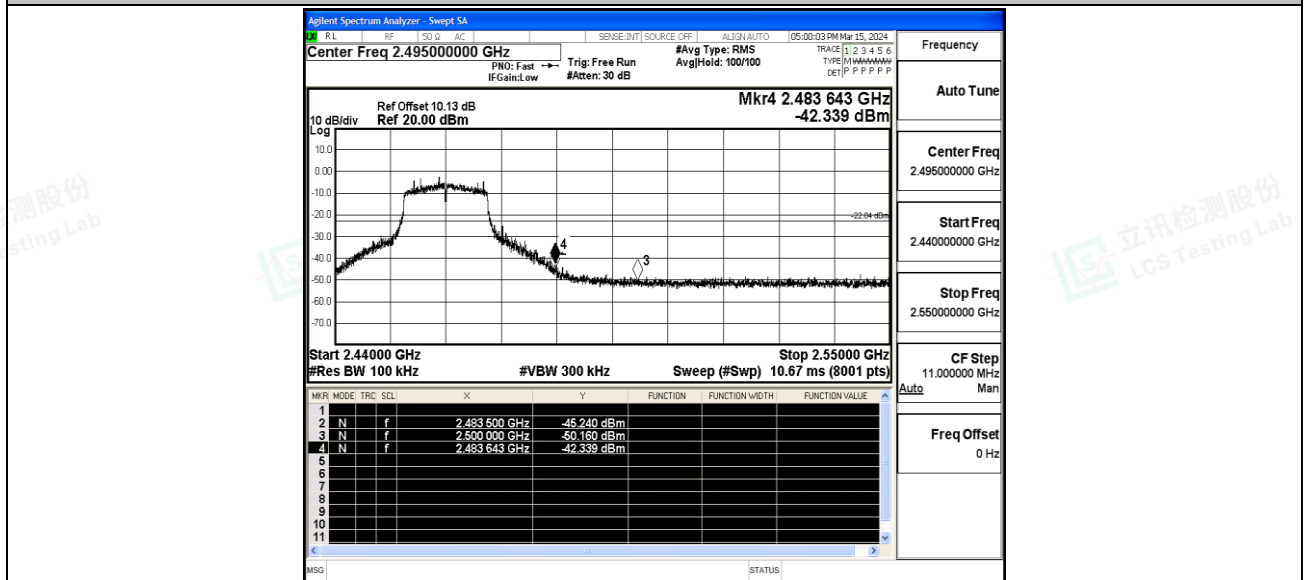
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant_High_2462



11N20SISO_Ant_Low_2412

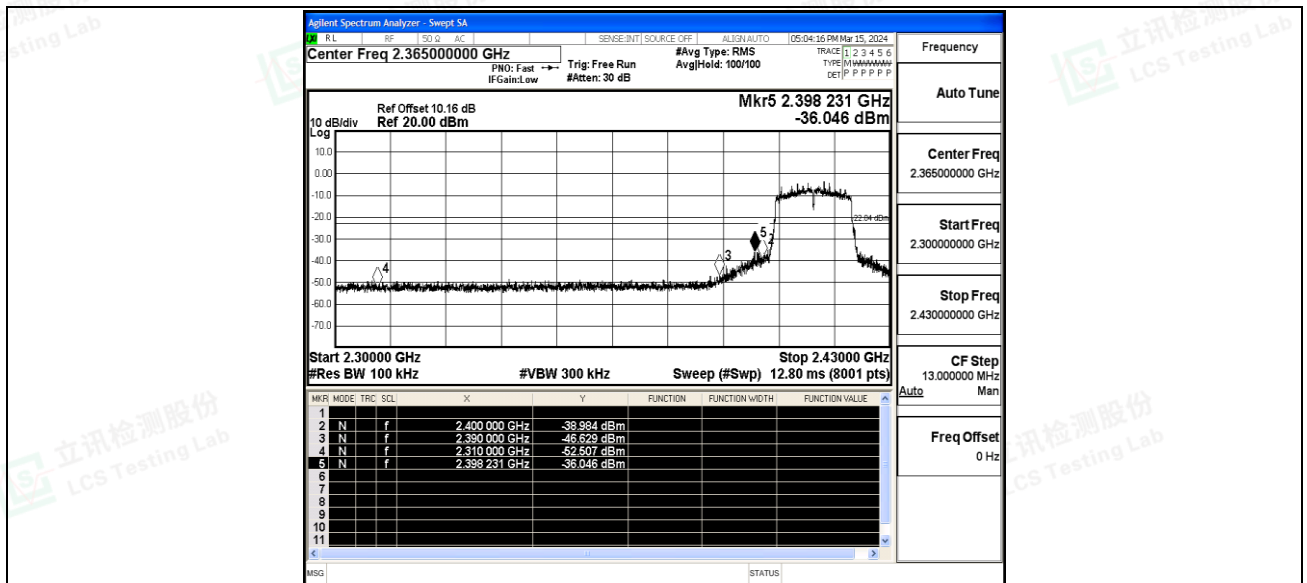


Shenzhen LCS Compliance Testing Laboratory Ltd.

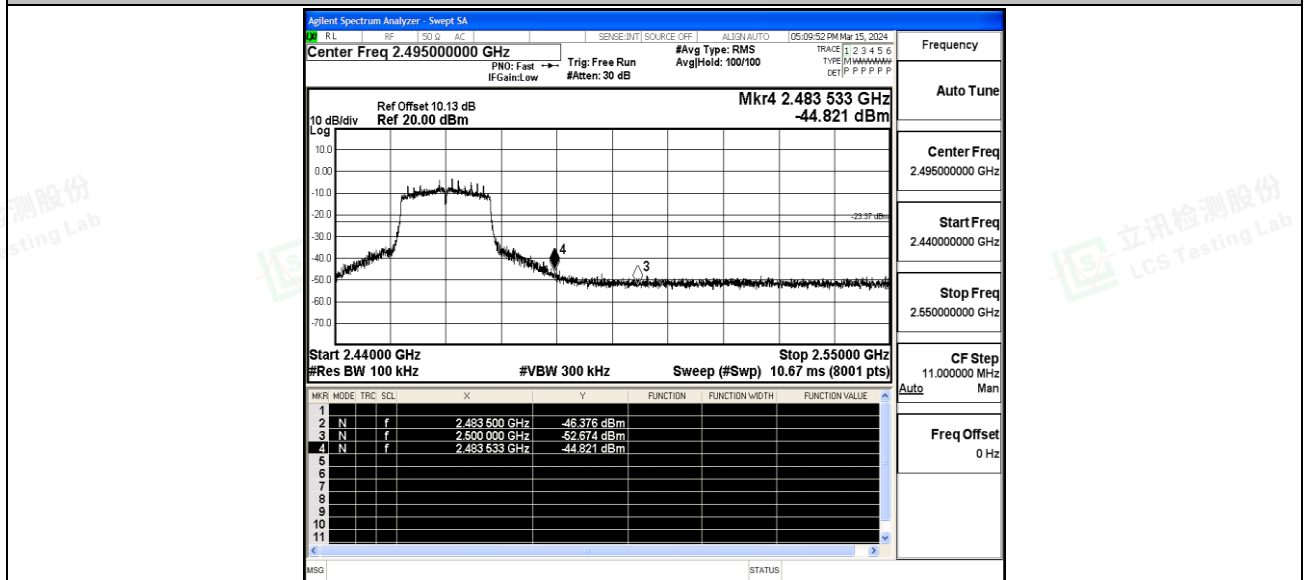
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_High_2462





B.5 Conducted Spurious Emission

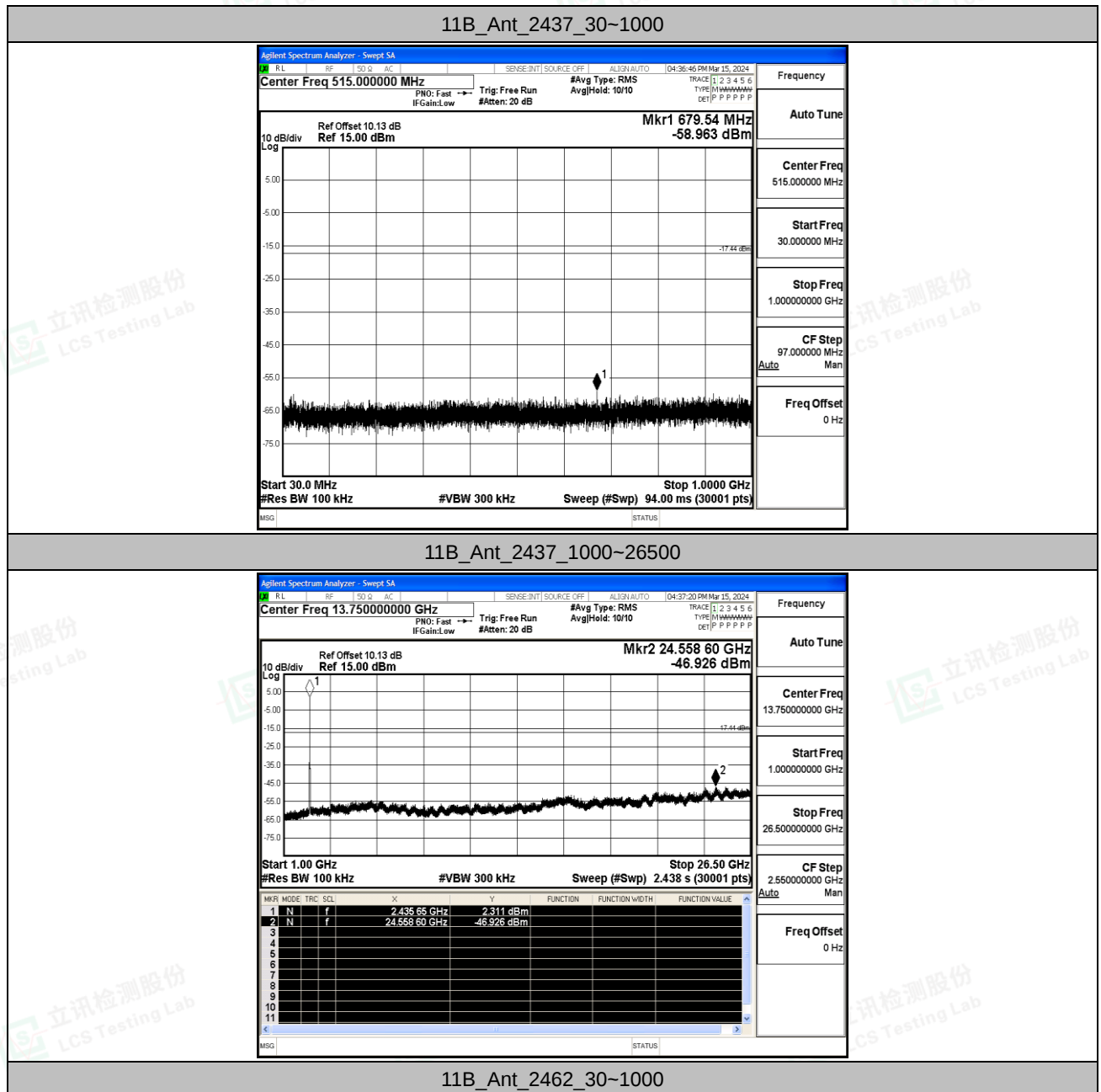
Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2437	30~1000	2.56	-58.96	≤ -17.44	PASS
			1000~26500	2.56	-46.93	≤ -17.44	PASS
		2462	30~1000	2.98	-59.72	≤ -17.02	PASS
			1000~26500	2.98	-46.94	≤ -17.02	PASS
11G	Ant	2412	30~1000	-1.78	-59.4	≤ -21.78	PASS
			1000~26500	-1.78	-47.5	≤ -21.78	PASS
		2437	30~1000	-2.82	-60.31	≤ -22.82	PASS
			1000~26500	-2.82	-46.32	≤ -22.82	PASS
		2462	30~1000	-2.84	-59.54	≤ -22.84	PASS
			1000~26500	-2.84	-47.24	≤ -22.84	PASS
11N20SISO	Ant	2412	30~1000	-2.84	-58.68	≤ -22.84	PASS
			1000~26500	-2.84	-46.83	≤ -22.84	PASS
		2437	30~1000	-4.32	-59.2	≤ -24.32	PASS
			1000~26500	-4.32	-46.11	≤ -24.32	PASS
		2462	30~1000	-3.37	-58.63	≤ -23.37	PASS
			1000~26500	-3.37	-47.17	≤ -23.37	PASS





Test Graphs

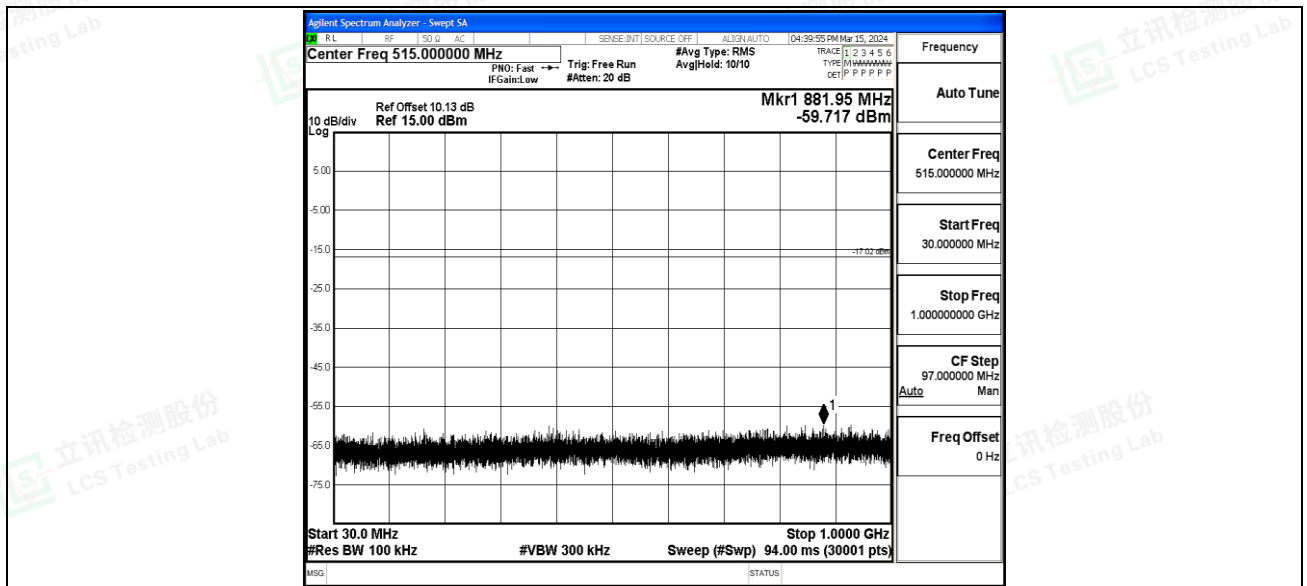


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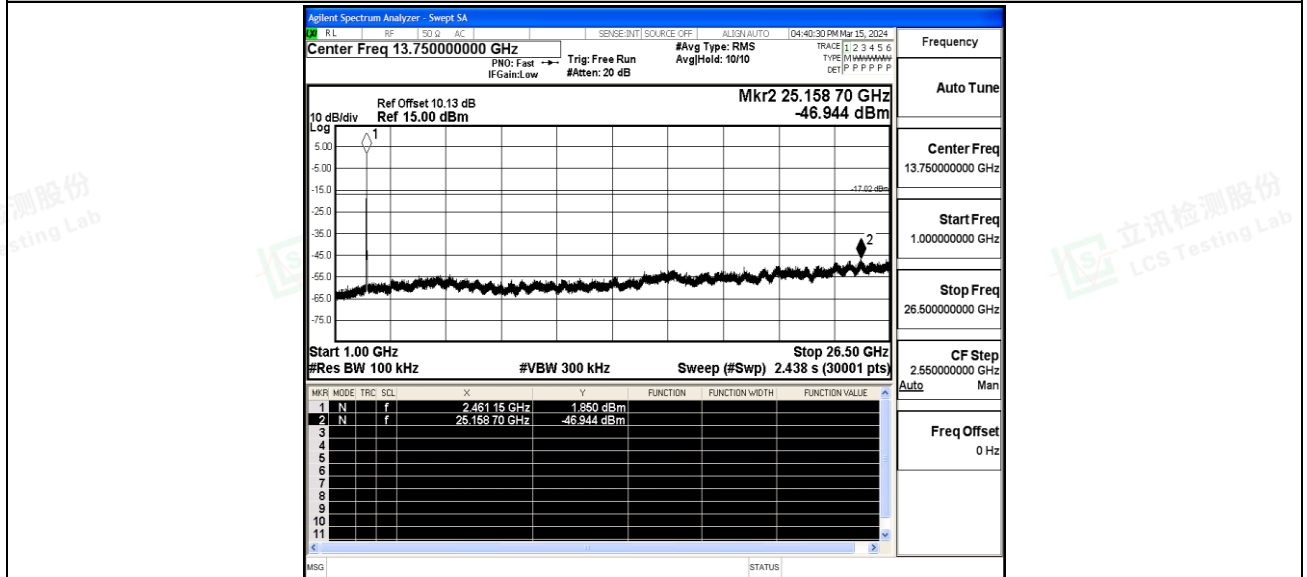
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11B_Ant_2462_1000~26500



11G_Ant_2412_30~1000

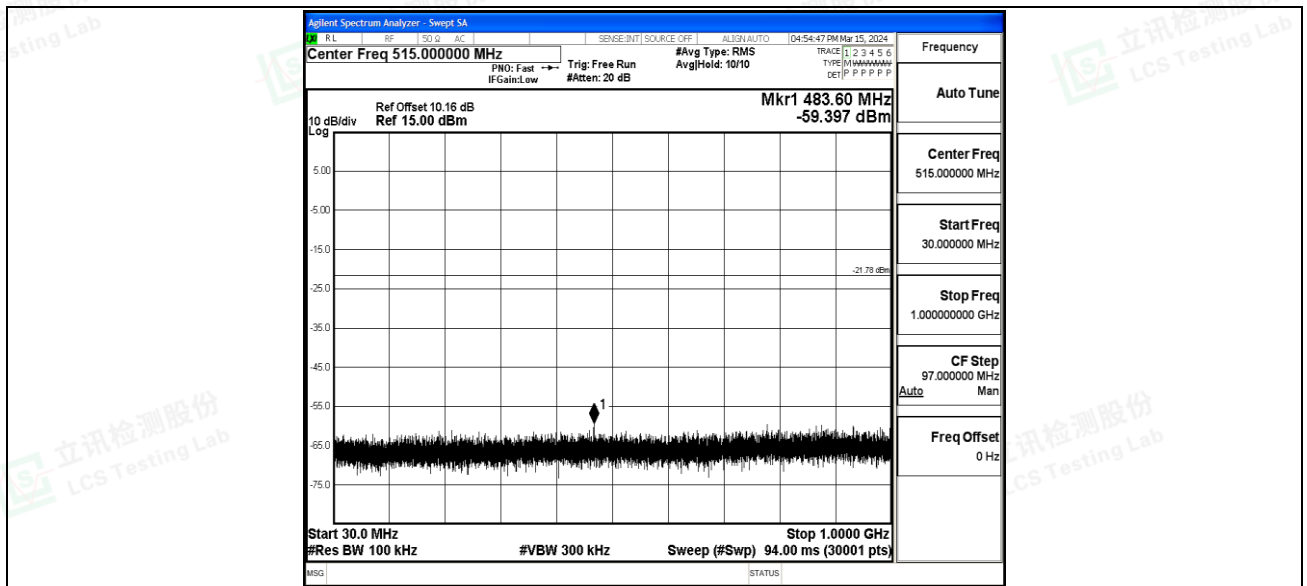


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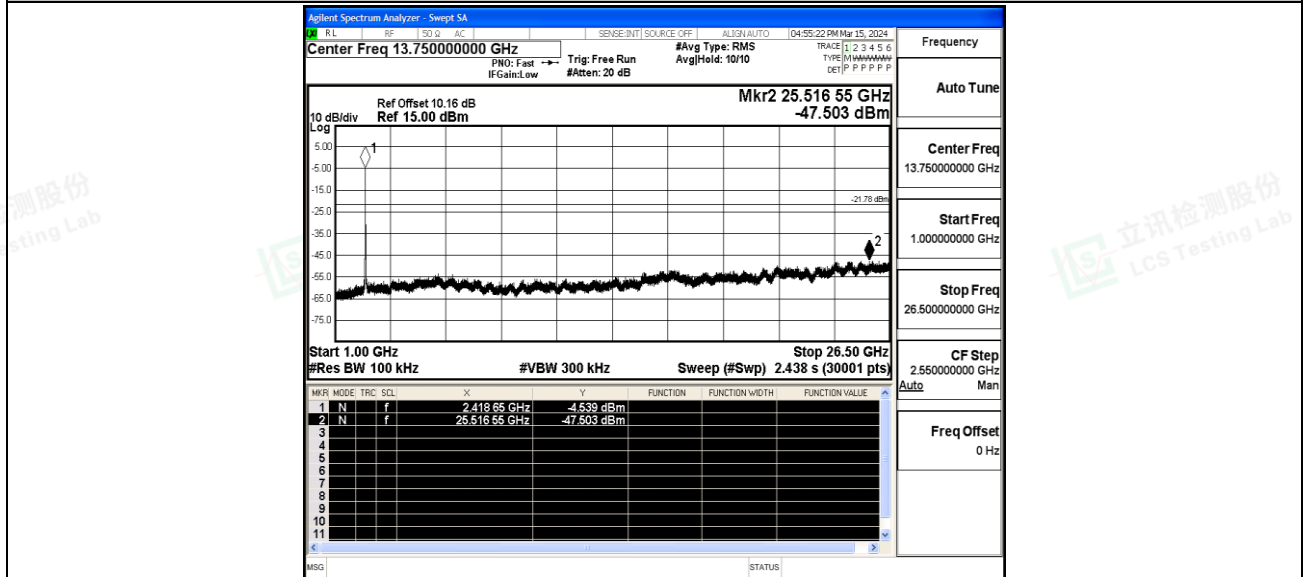
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant_2412_1000~26500



11G_Ant_2437_30~1000

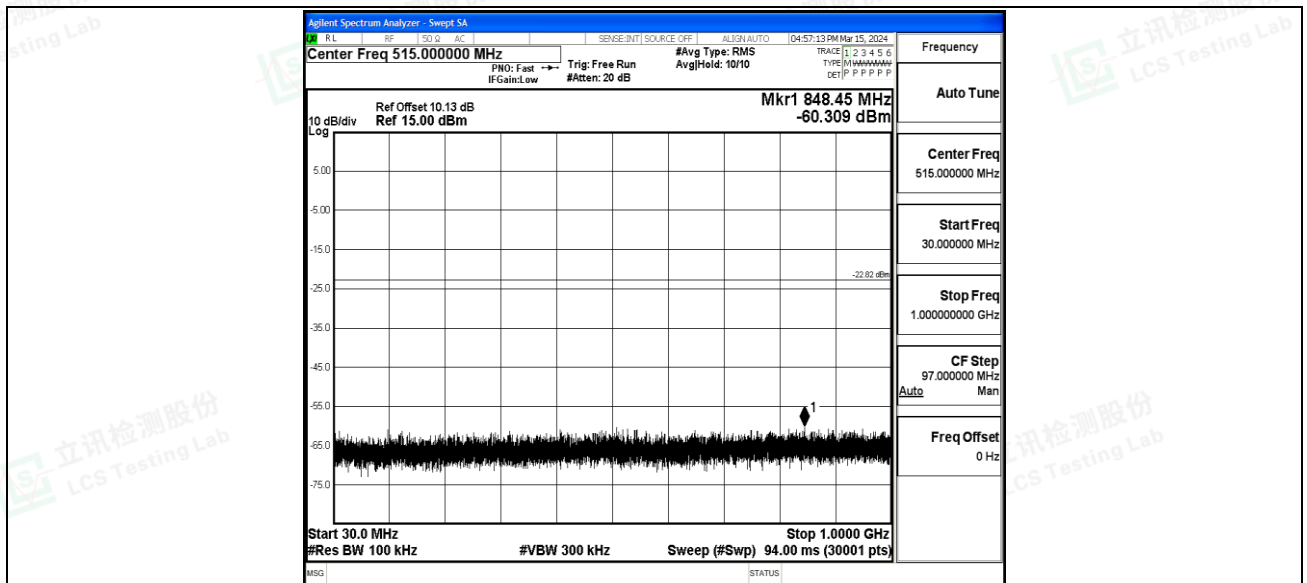


Shenzhen LCS Compliance Testing Laboratory Ltd.

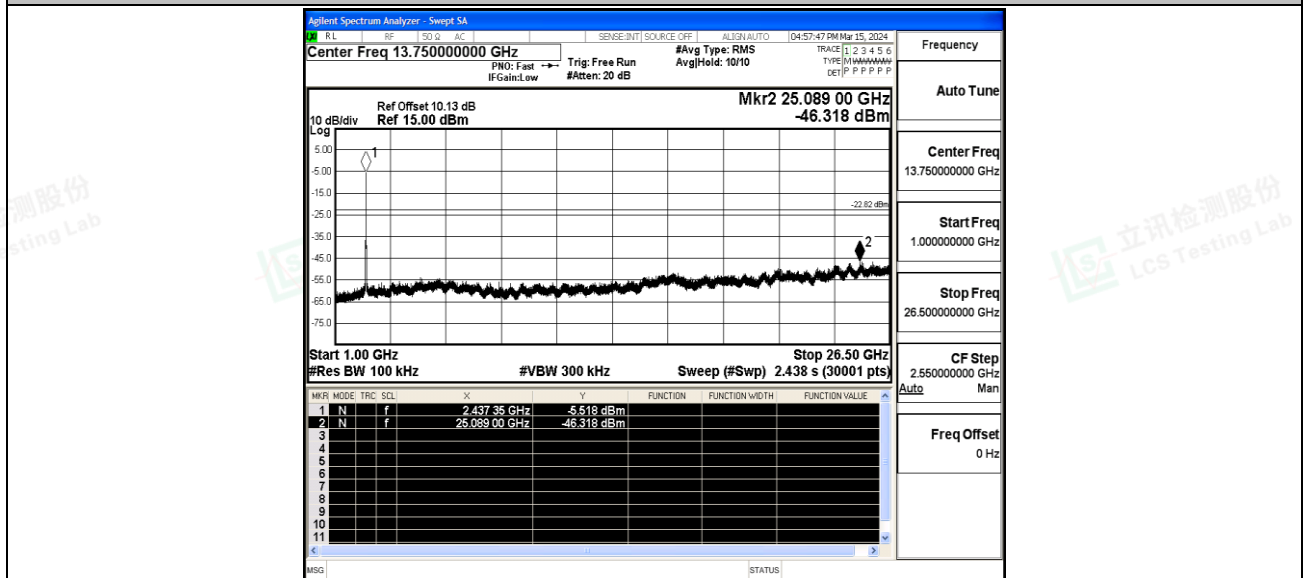
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11G_Ant_2437_1000~26500



11G_Ant_2462_30~1000

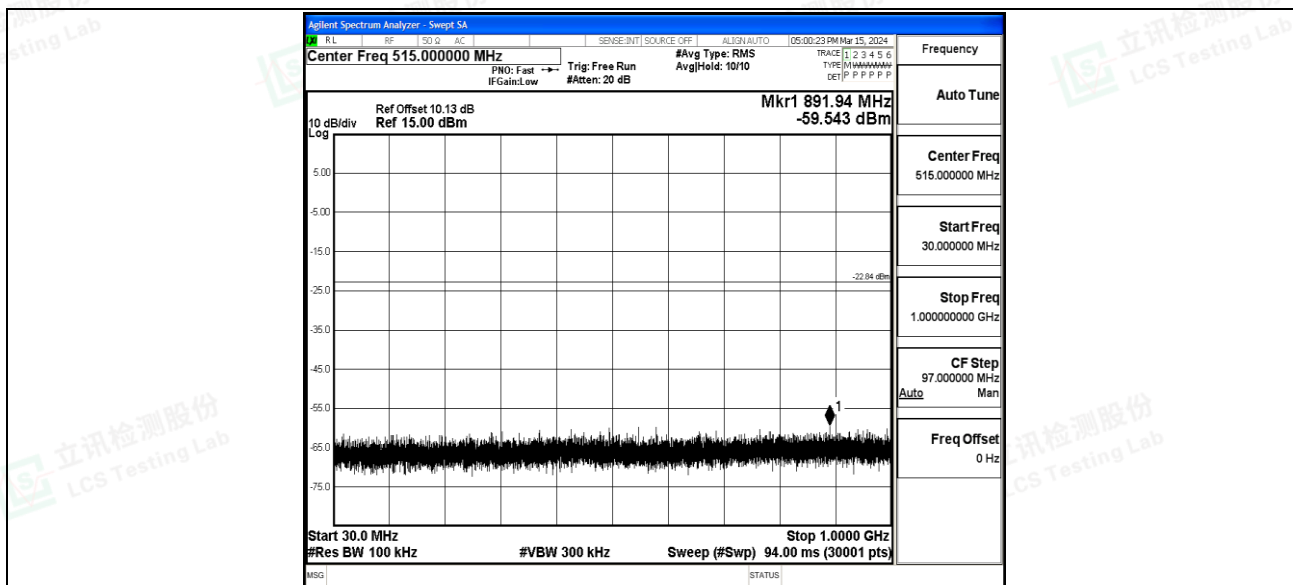


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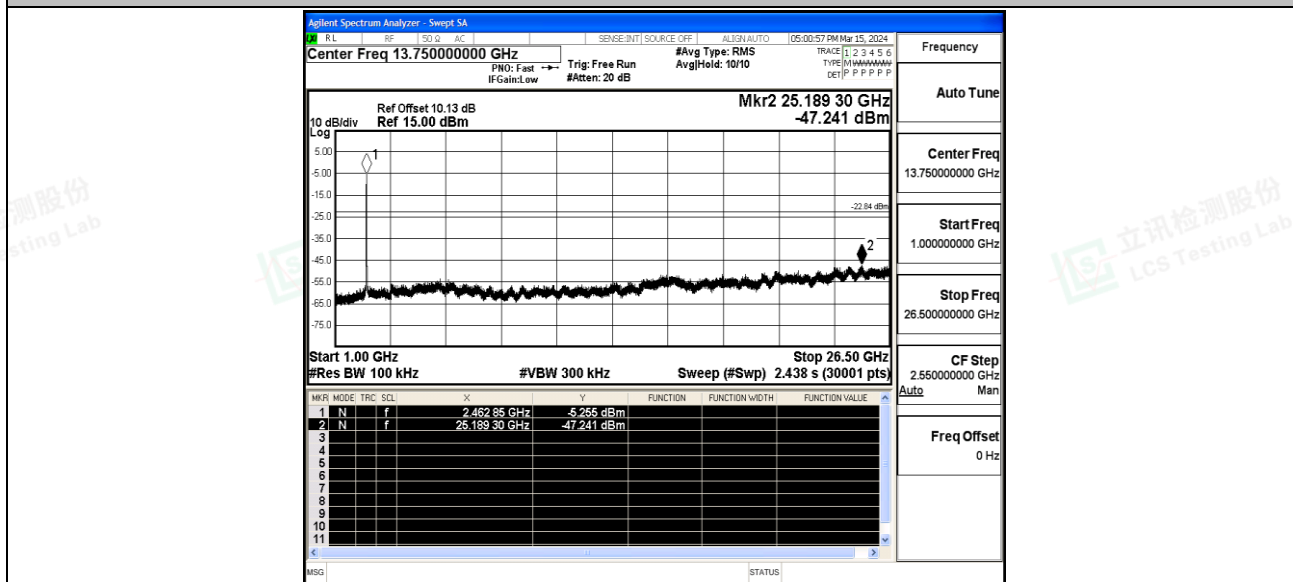
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant_2462_1000~26500



11N20SISO_Ant_2412_30~1000

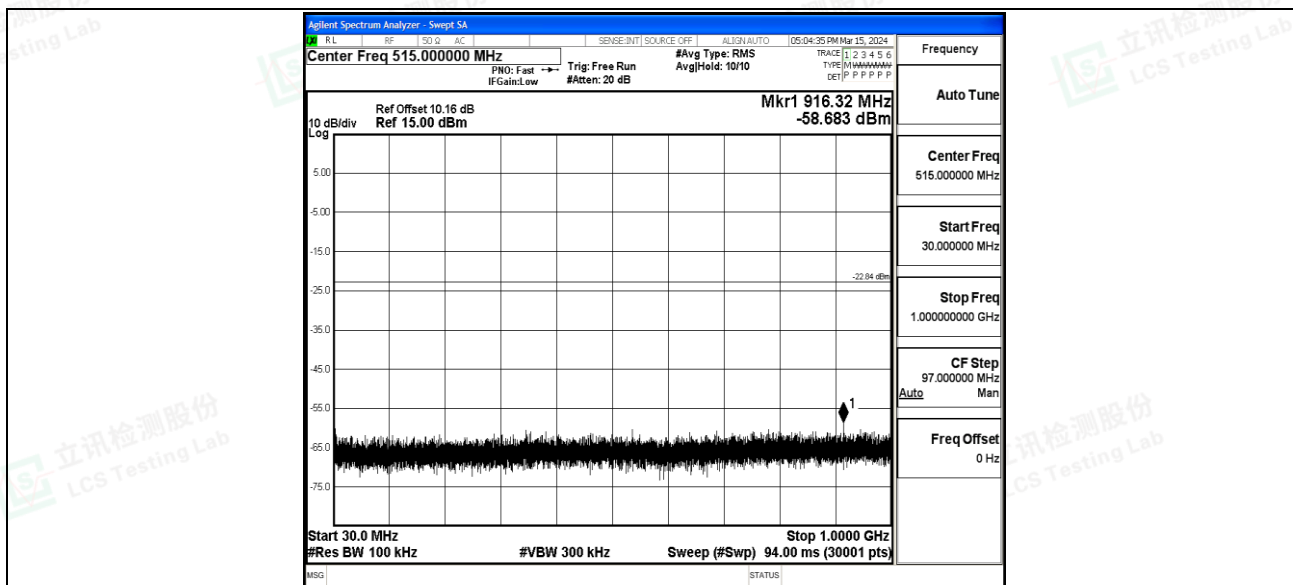


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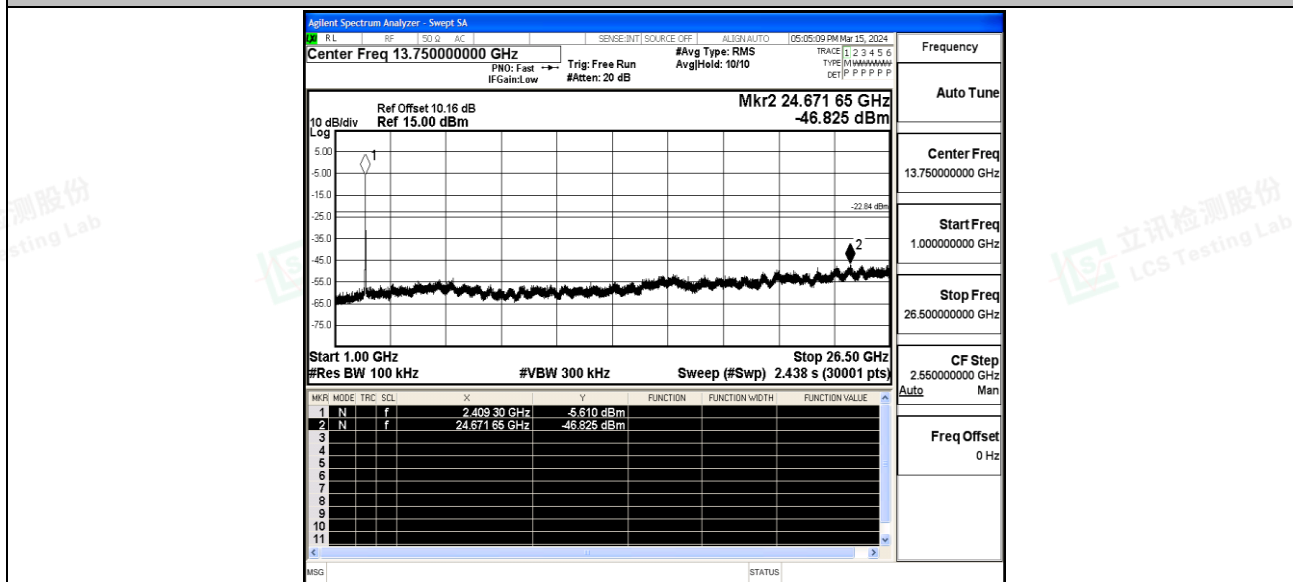
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_2412_1000~26500



11N20SISO_Ant_2437_30~1000

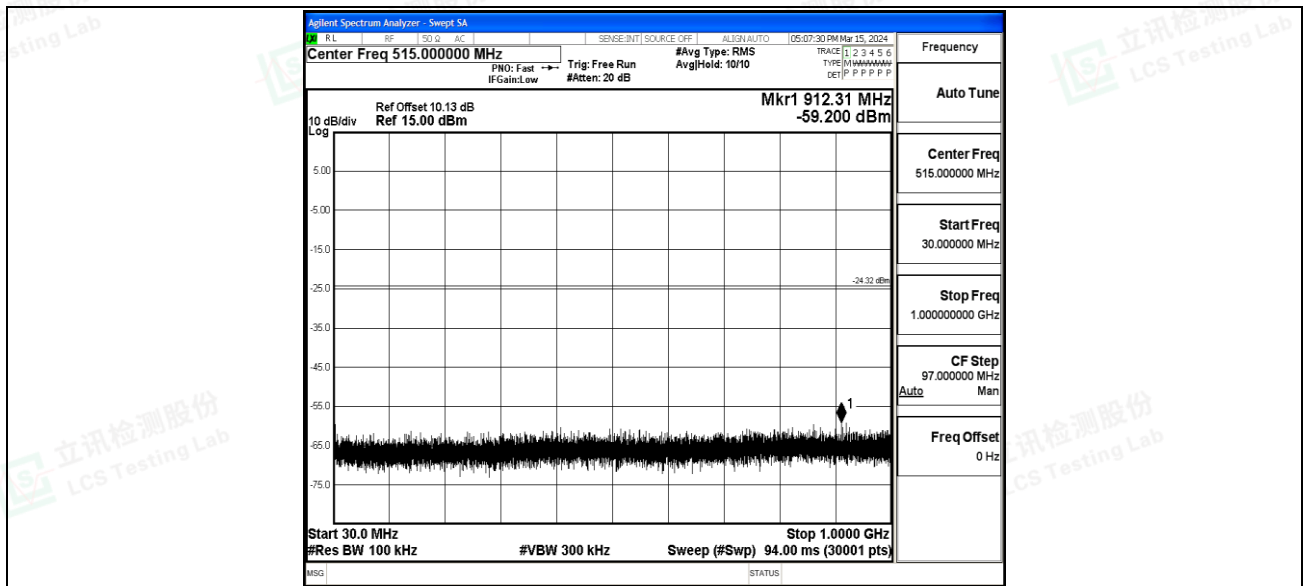


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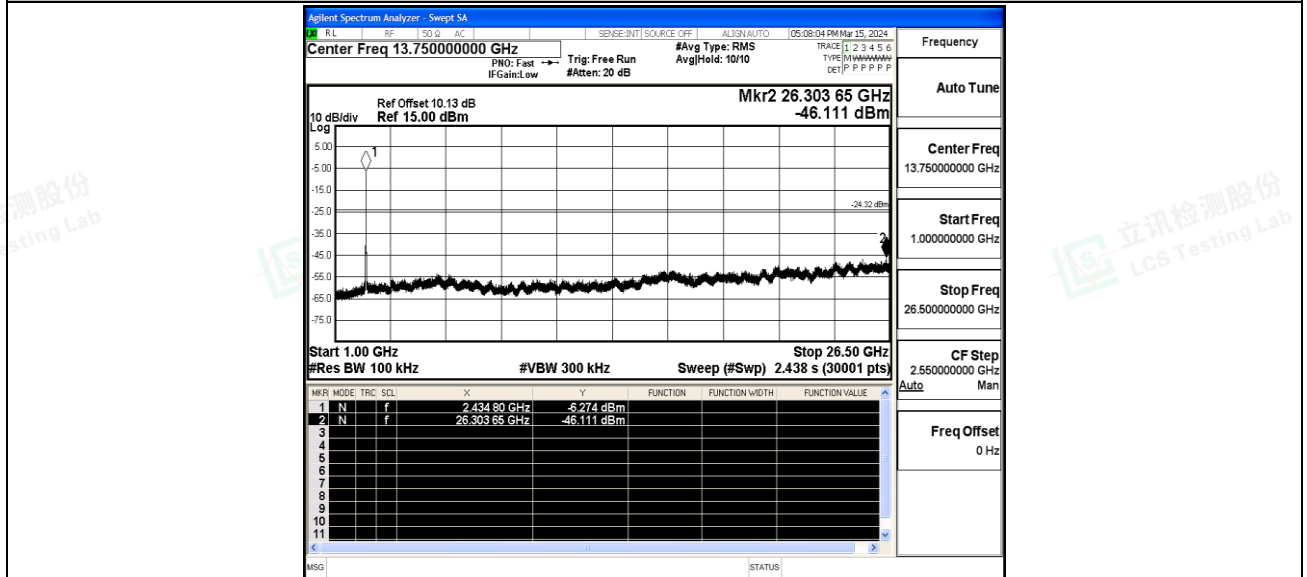
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_2437_1000~26500



11N20SISO_Ant_2462_30~1000

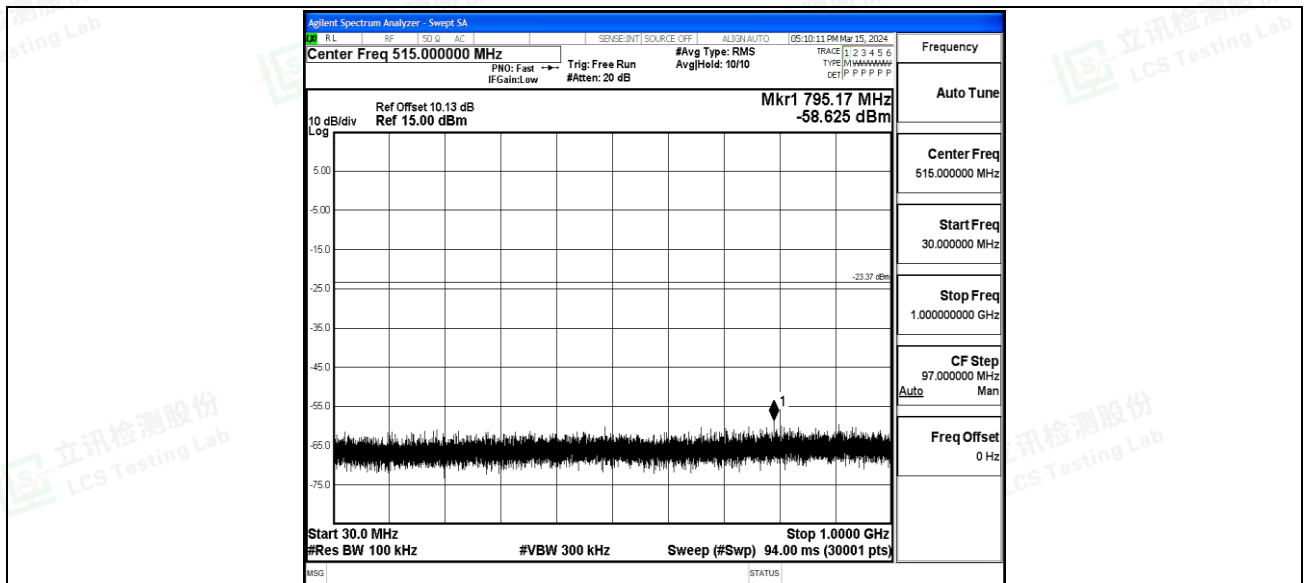


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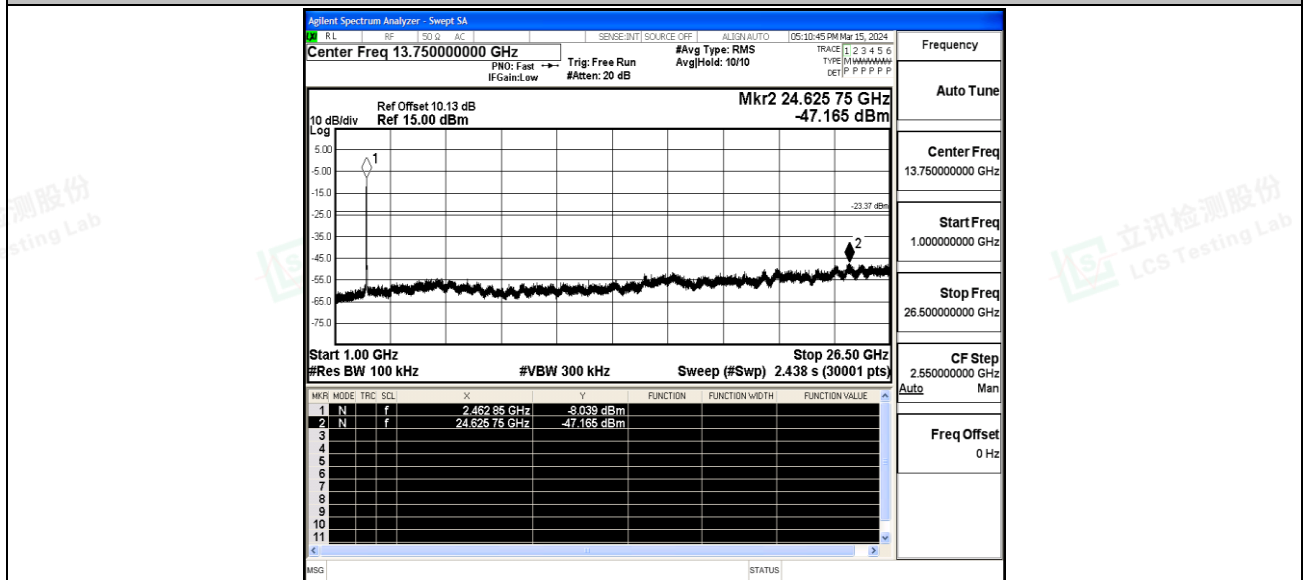
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_2462_1000~26500





Reference level measurement

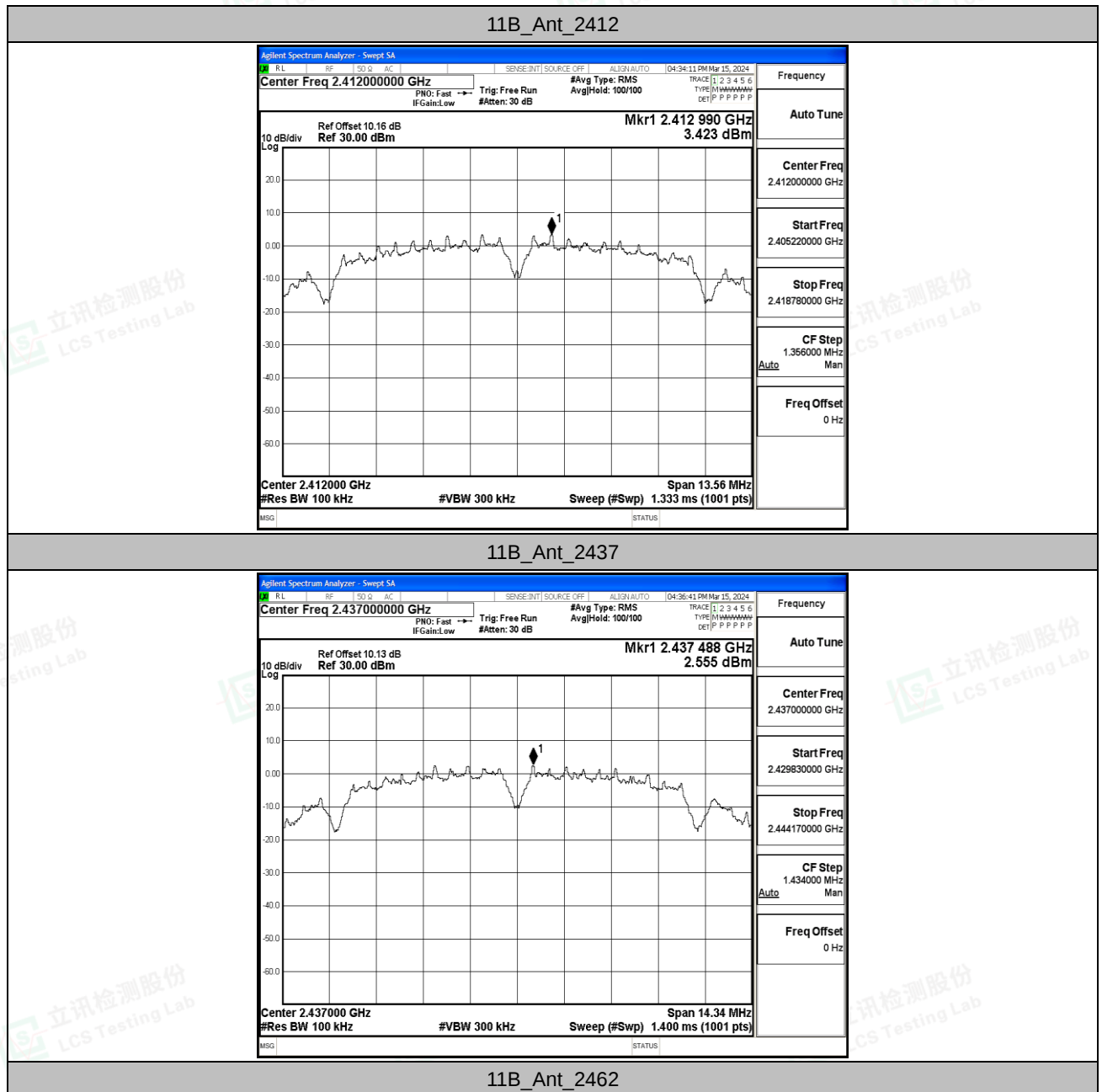
Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant	2412	2412.99	3.42
		2437	2437.49	2.56
		2462	2463.49	2.98
11G	Ant	2412	2413.26	-1.78
		2437	2435.72	-2.82
		2462	2460.71	-2.84
11N20SISO	Ant	2412	2413.27	-2.84
		2437	2439.49	-4.32
		2462	2463.25	-3.37





Test Graphs

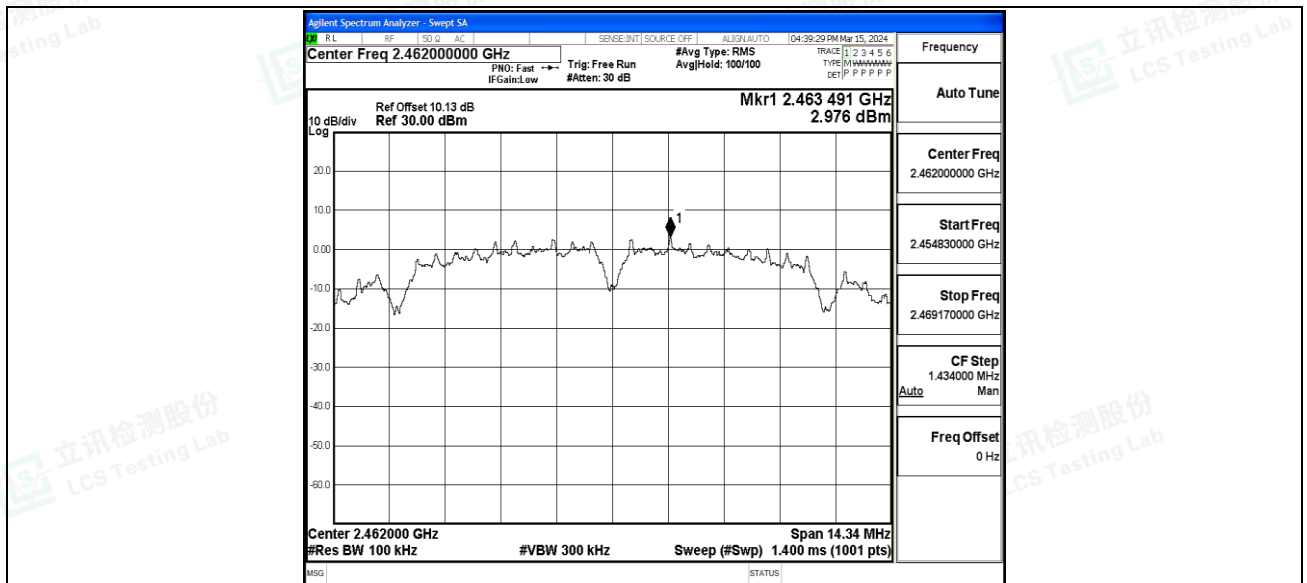


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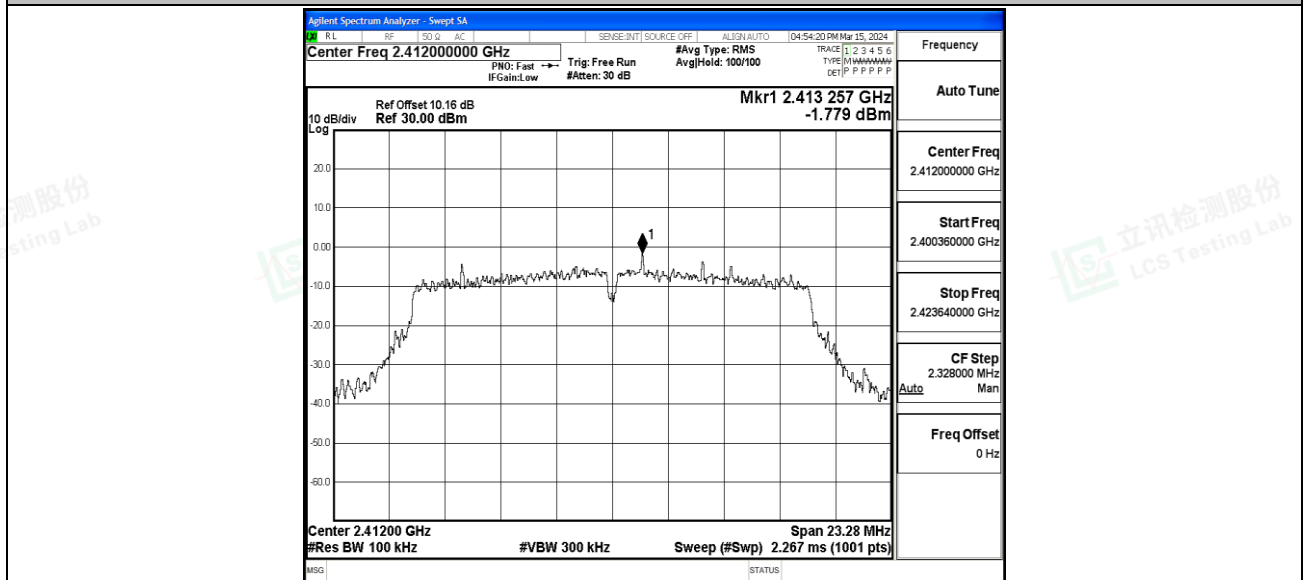
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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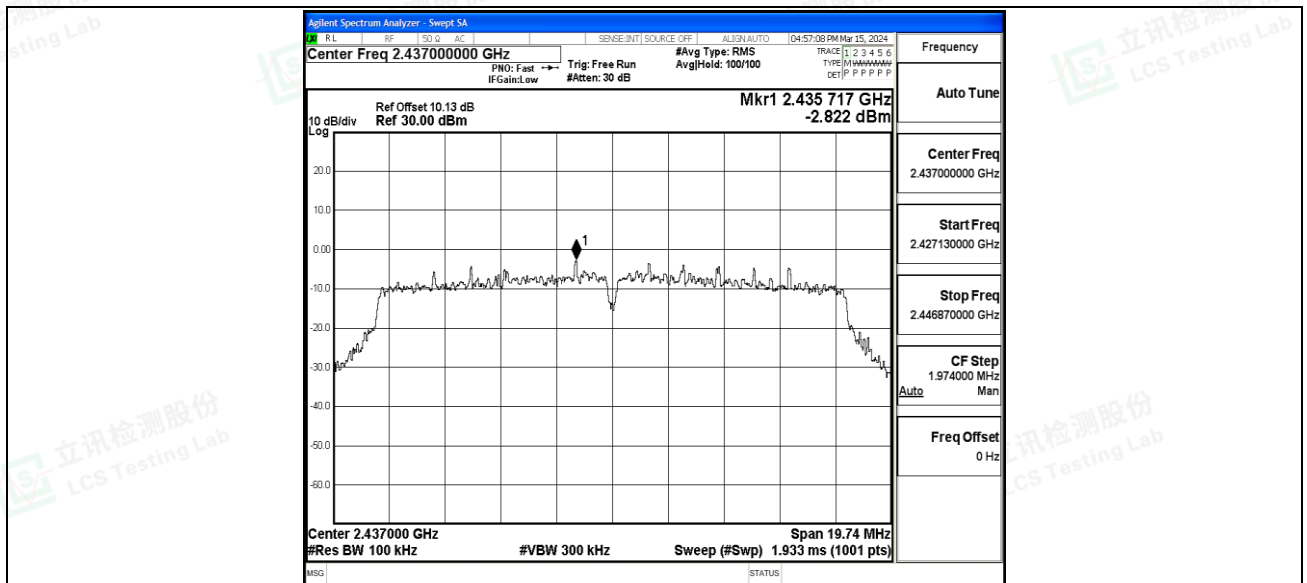


11G_Ant_2412

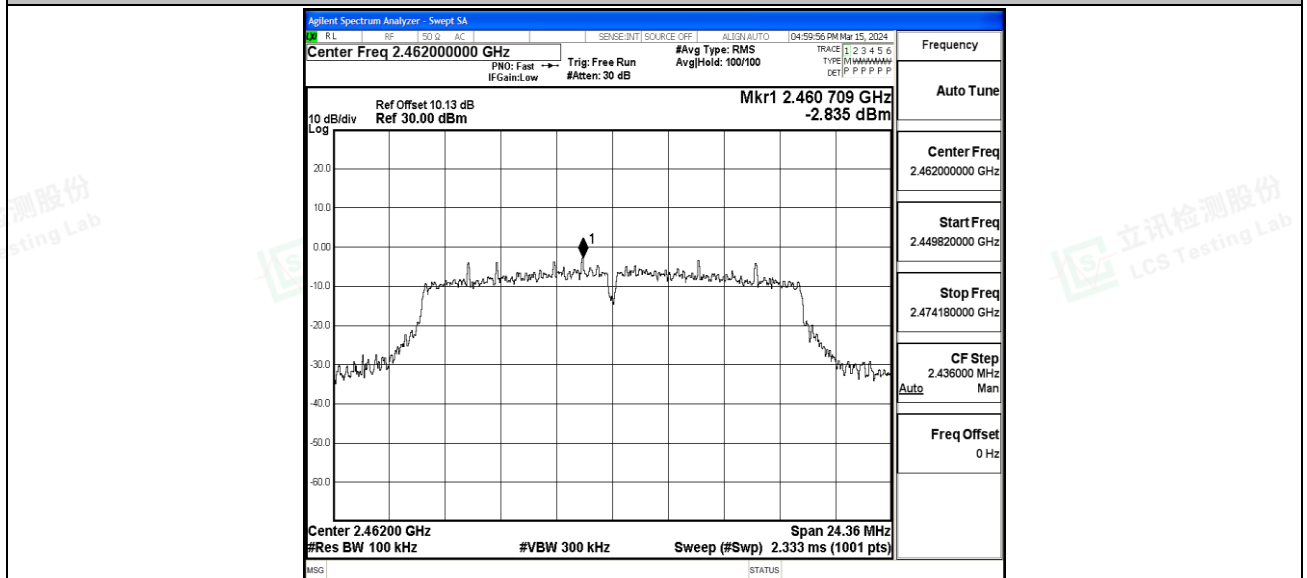


11G_Ant_2437





11G_Ant_2462



11N20SISO_Ant_2412

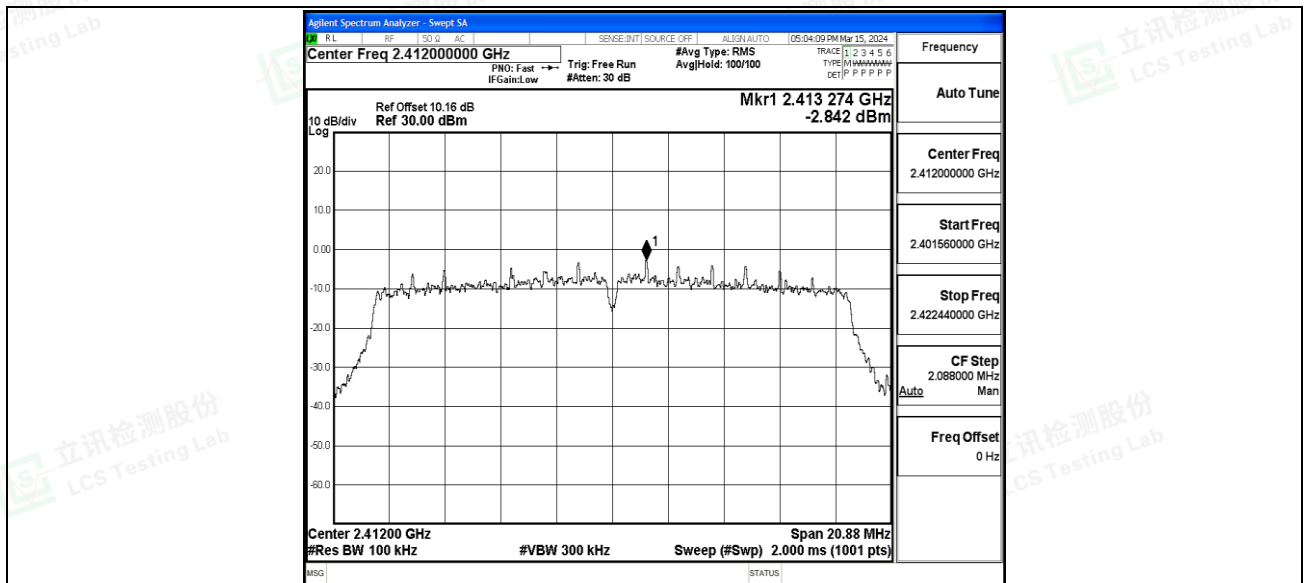


Shenzhen LCS Compliance Testing Laboratory Ltd.

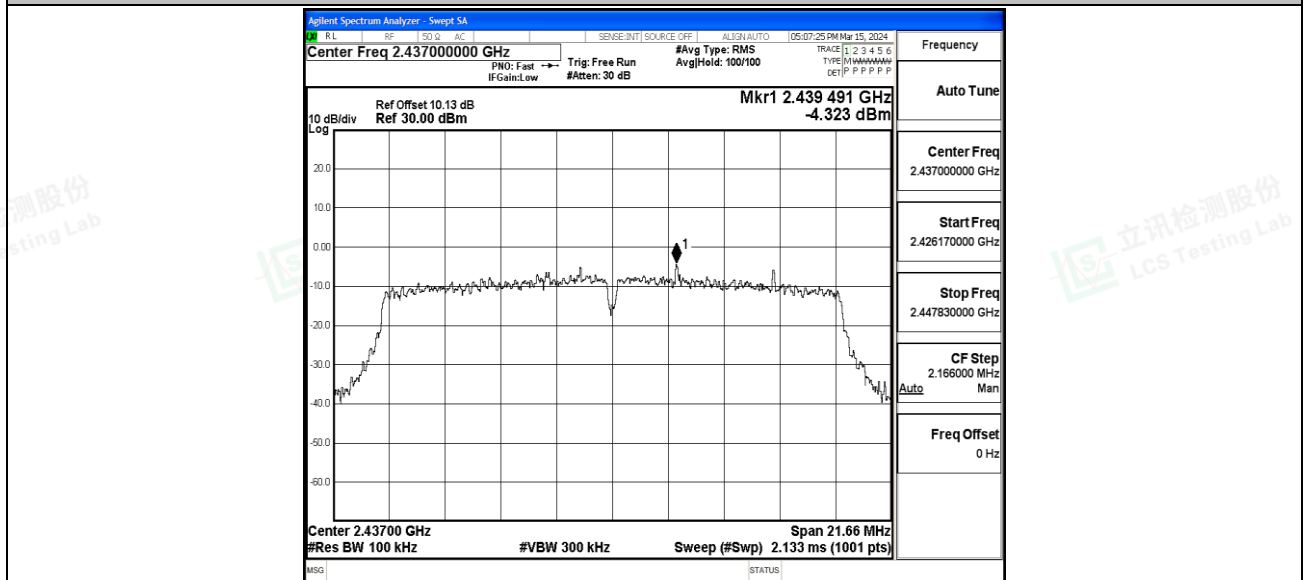
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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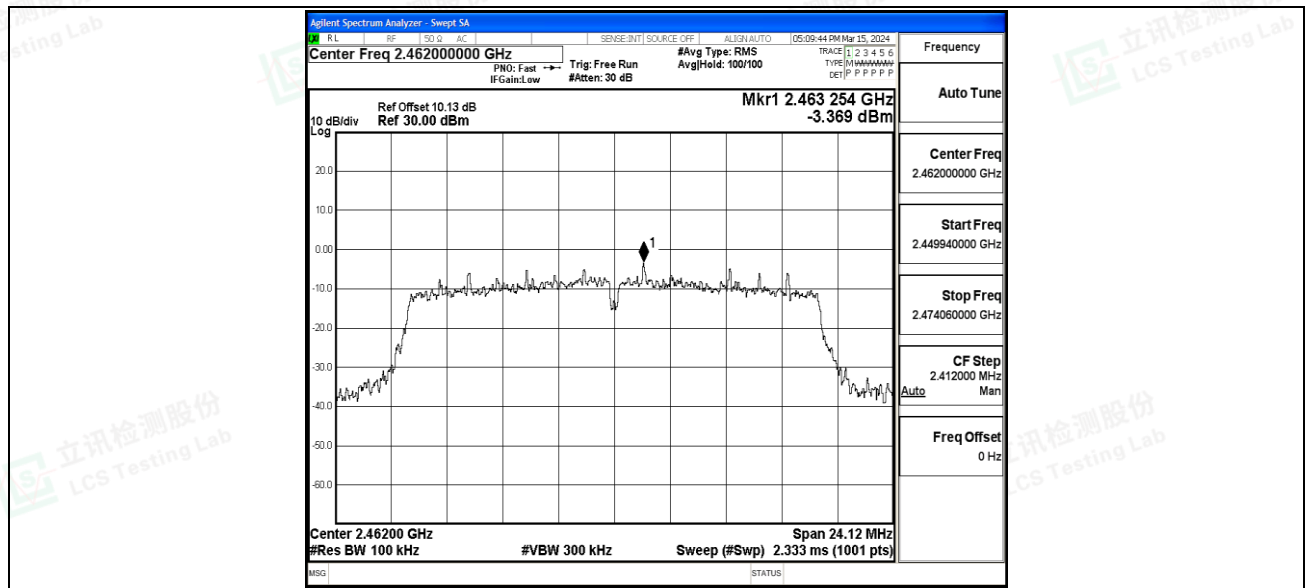


11N20SISO_Ant_2437



11N20SISO_Ant_2462







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	Ant	2412	8.38	8.41	99.64	0.02	0.12	---
		2437	8.39	8.42	99.64	0.02	0.12	---
		2462	8.39	8.42	99.64	0.02	0.12	---
11G	Ant	2412	1.39	1.43	97.20	0.12	0.72	---
		2437	1.39	1.43	97.20	0.12	0.72	---
		2462	1.39	1.42	97.89	0.09	0.72	---
11N20SISO	Ant	2412	1.30	1.34	97.01	0.13	0.77	---
		2437	1.30	1.34	97.01	0.13	0.77	---
		2462	1.30	1.34	97.01	0.13	0.77	---





Test Graphs

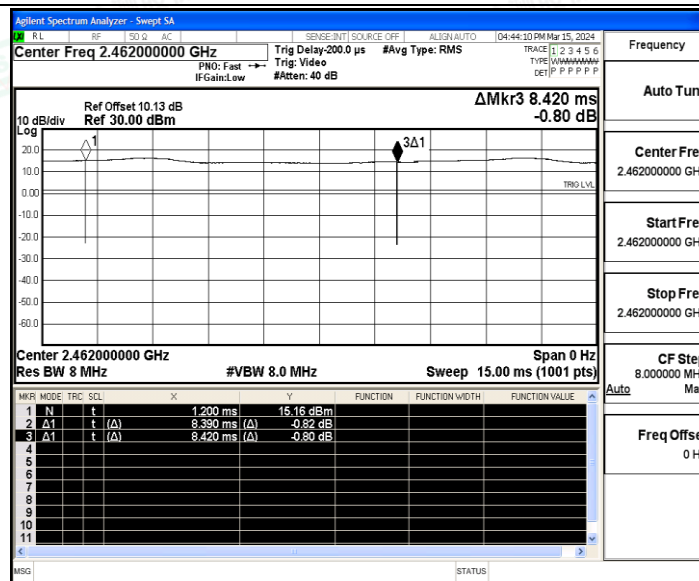


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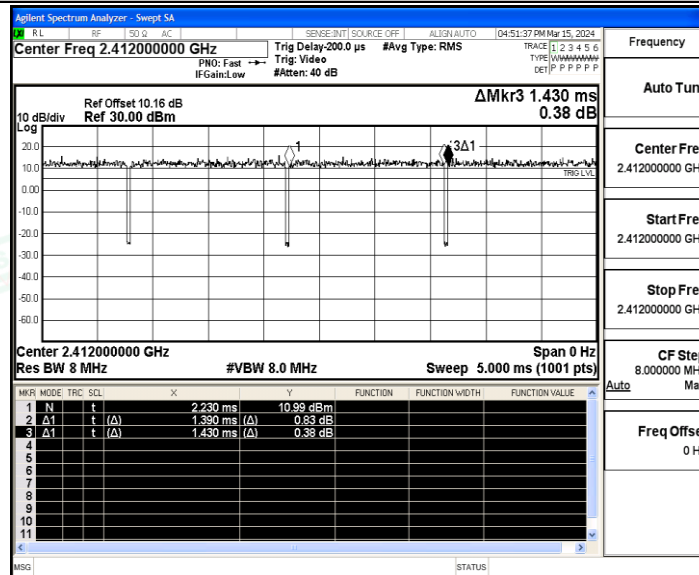
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11G_Ant_2412



11G_Ant_2437

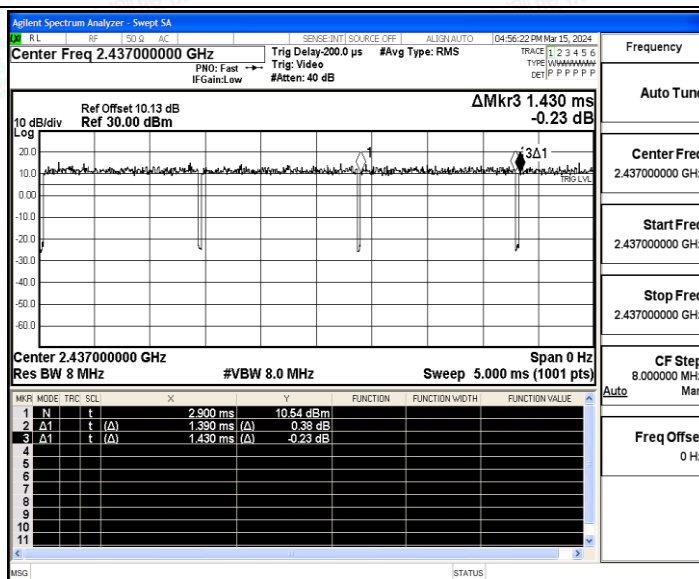


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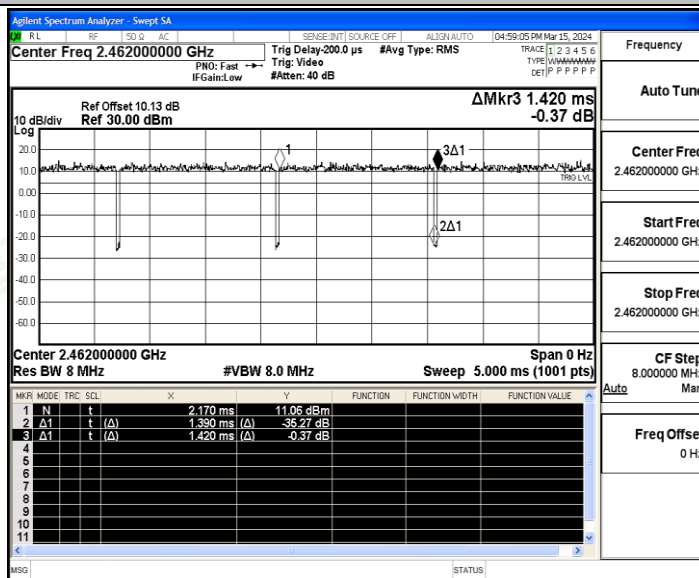
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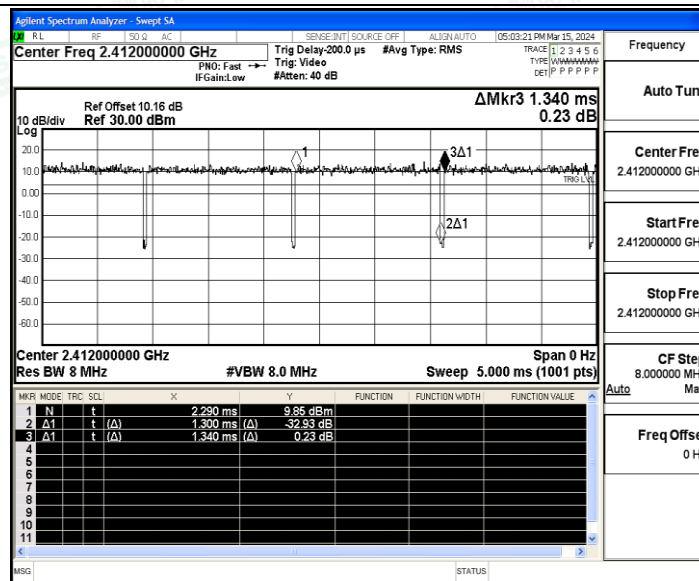


11G Ant 2462

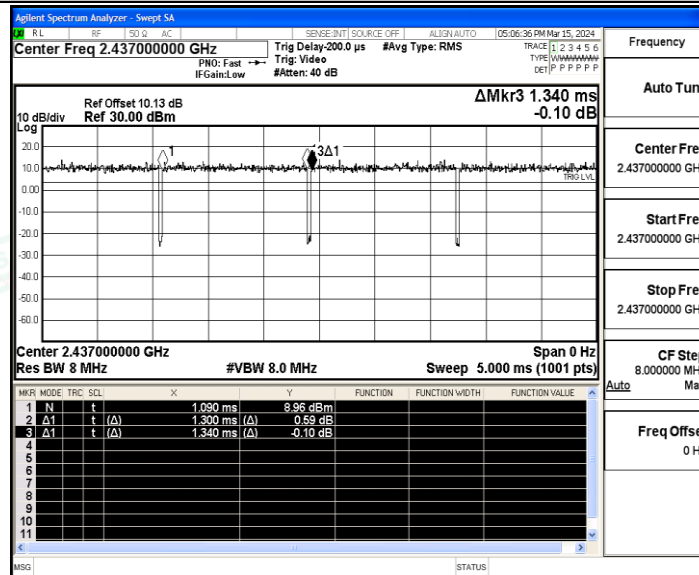


11N20SISO Ant 2412





11N20SISO_Ant_2437



11N20SISO_Ant_2462

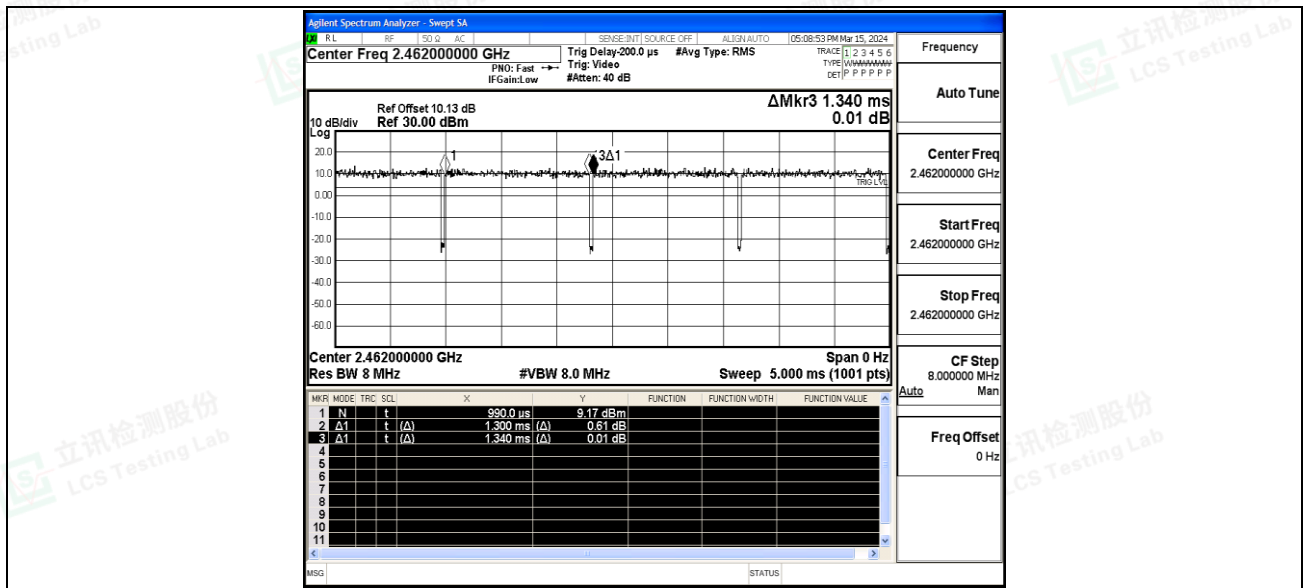


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B.7 Emissions in Restricted Bands

Test Result

Test Model	Antenna	Channel Name	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant	Low	2412	AV	2310.000	-48.37	≤-41.20	46.83	≤54	PASS
				AV	2386.320	-44.78	≤-41.20	50.42	≤54	PASS
				AV	2390.000	-47.1	≤-41.20	48.10	≤54	PASS
				Peak	2310.000	-40.07	≤-21.20	55.13	≤74	PASS
				Peak	2386.970	-35.95	≤-21.20	59.25	≤74	PASS
				Peak	2390.000	-39.83	≤-21.20	55.37	≤74	PASS
		High	2462	AV	2483.500	-42.25	≤-41.20	52.95	≤54	PASS
				AV	2483.560	-42.4	≤-41.20	52.80	≤54	PASS
				AV	2500.000	-46.76	≤-41.20	48.44	≤54	PASS
				Peak	2483.500	-34.58	≤-21.20	60.62	≤74	PASS
				Peak	2484.660	-35.57	≤-21.20	59.63	≤74	PASS
				Peak	2500.000	-38.9	≤-21.20	56.30	≤74	PASS
11G	Ant	Low	2412	AV	2310.000	-47.95	≤-41.20	47.25	≤54	PASS
				AV	2389.960	-45.34	≤-41.20	49.86	≤54	PASS
				AV	2390.000	-45.34	≤-41.20	49.86	≤54	PASS
				Peak	2310.000	-40.23	≤-21.20	54.97	≤74	PASS
				Peak	2389.830	-34.17	≤-21.20	61.03	≤74	PASS
				Peak	2390.000	-34.78	≤-21.20	60.42	≤74	PASS
		High	2462	AV	2483.500	-41.43	≤-41.20	53.77	≤54	PASS
				AV	2483.890	-41.68	≤-41.20	53.52	≤54	PASS
				AV	2500.000	-46.87	≤-41.20	48.33	≤54	PASS
				Peak	2483.500	-32.18	≤-21.20	63.02	≤74	PASS
				Peak	2484.220	-28.97	≤-21.20	66.23	≤74	PASS
				Peak	2500.000	-36.79	≤-21.20	58.41	≤74	PASS
11N20 SISO	Ant	Low	2412	AV	2310.000	-47.85	≤-41.20	47.35	≤54	PASS
				AV	2389.960	-44.62	≤-41.20	50.58	≤54	PASS
				AV	2390.000	-44.62	≤-41.20	50.58	≤54	PASS
				Peak	2310.000	-40.48	≤-21.20	54.72	≤74	PASS
				Peak	2389.700	-33.98	≤-21.20	61.22	≤74	PASS
				Peak	2390.000	-36.46	≤-21.20	58.74	≤74	PASS
		High	2462	AV	2483.500	-44.44	≤-41.20	50.76	≤54	PASS
				AV	2483.780	-43.54	≤-41.20	51.66	≤54	PASS
				AV	2500.000	-47.34	≤-41.20	47.86	≤54	PASS
				Peak	2483.500	-33.52	≤-21.20	61.68	≤74	PASS
				Peak	2484.000	-29.37	≤-21.20	65.83	≤74	PASS





			Peak	2500.000	-37.95	≤-21.20	57.25	≤74	PASS
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Note:

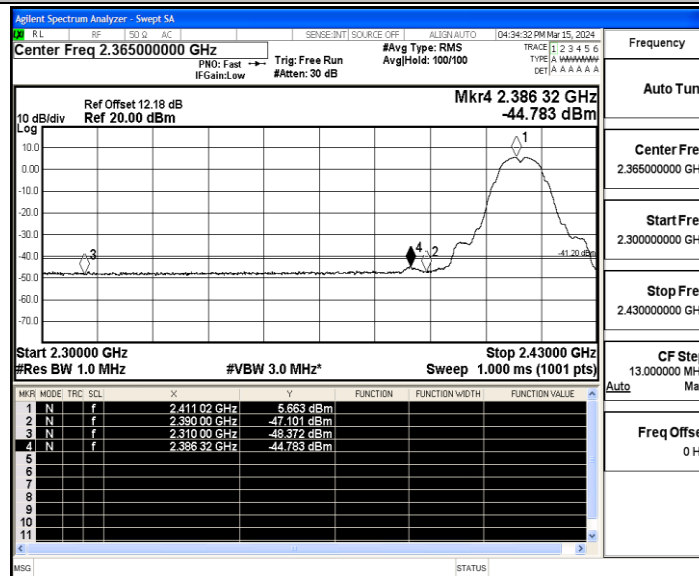
1. The Antenna Gain is compensated in the graph. The Correction Factor is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



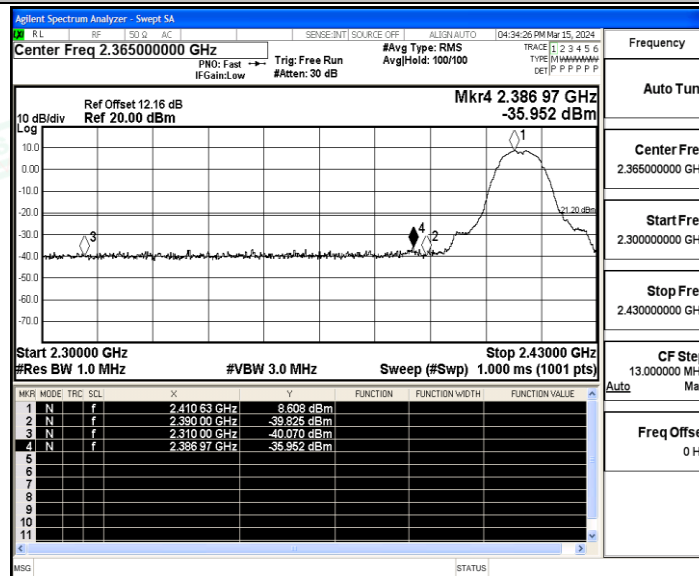


Test Graphs

11B_Ant_Low_2412_AV



11B_Ant_Low_2412_Peak



11B_Ant_High_2462_AV

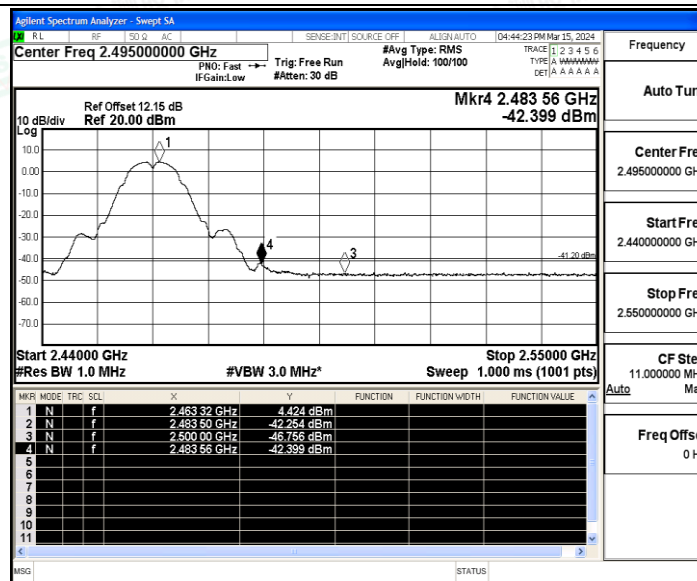


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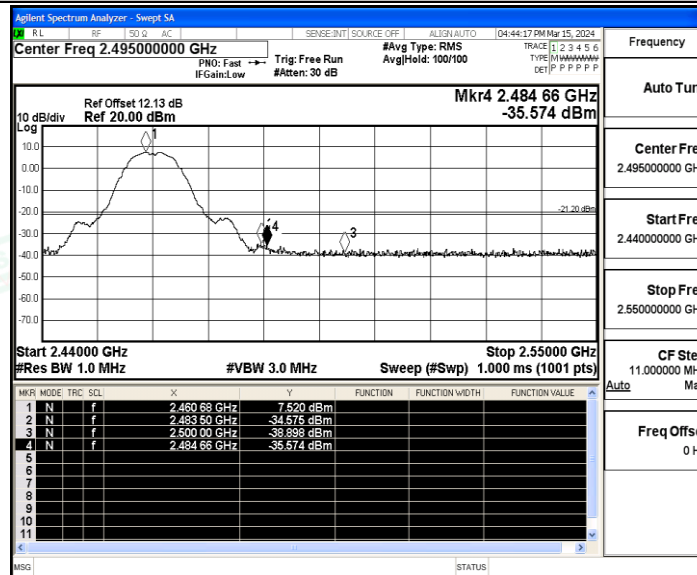
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11B_Ant_High_2462_Peak



11G_Ant_Low_2412_AV

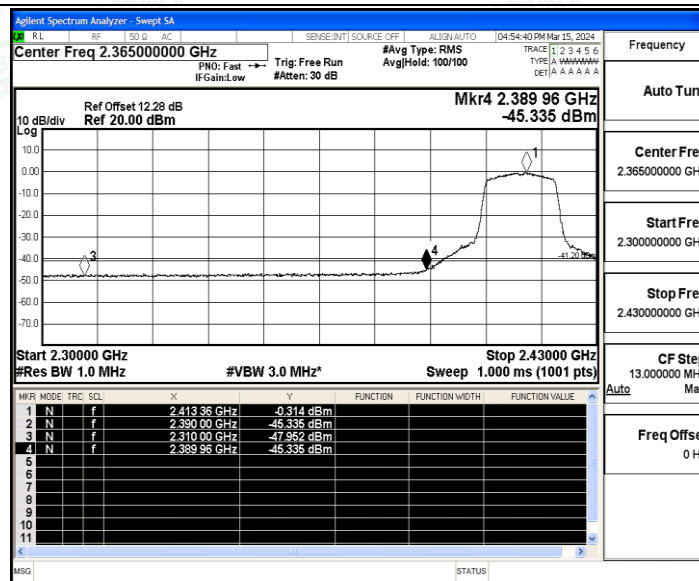


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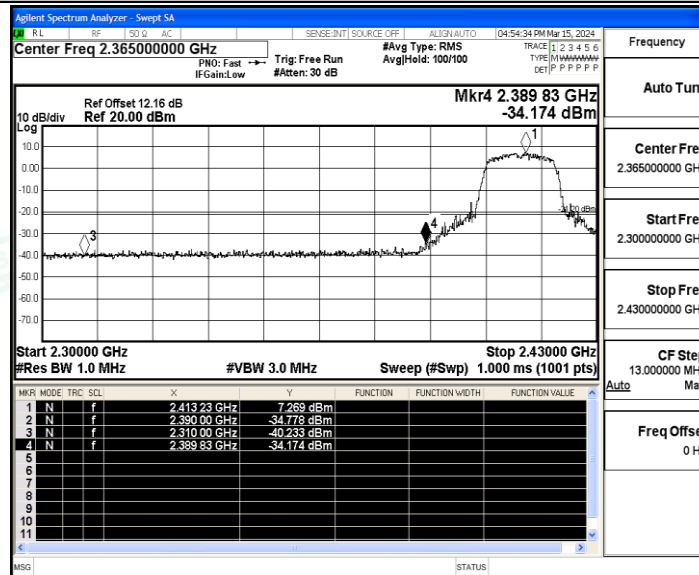
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11G_Ant_Low_2412_Peak



11G_Ant_High_2462_AV

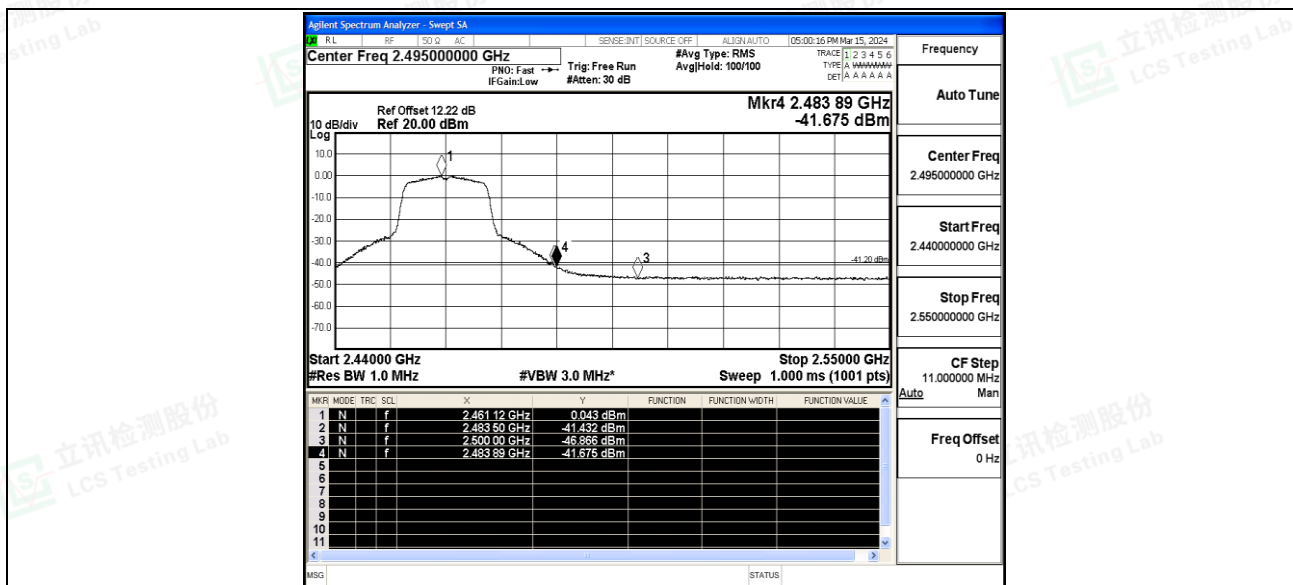


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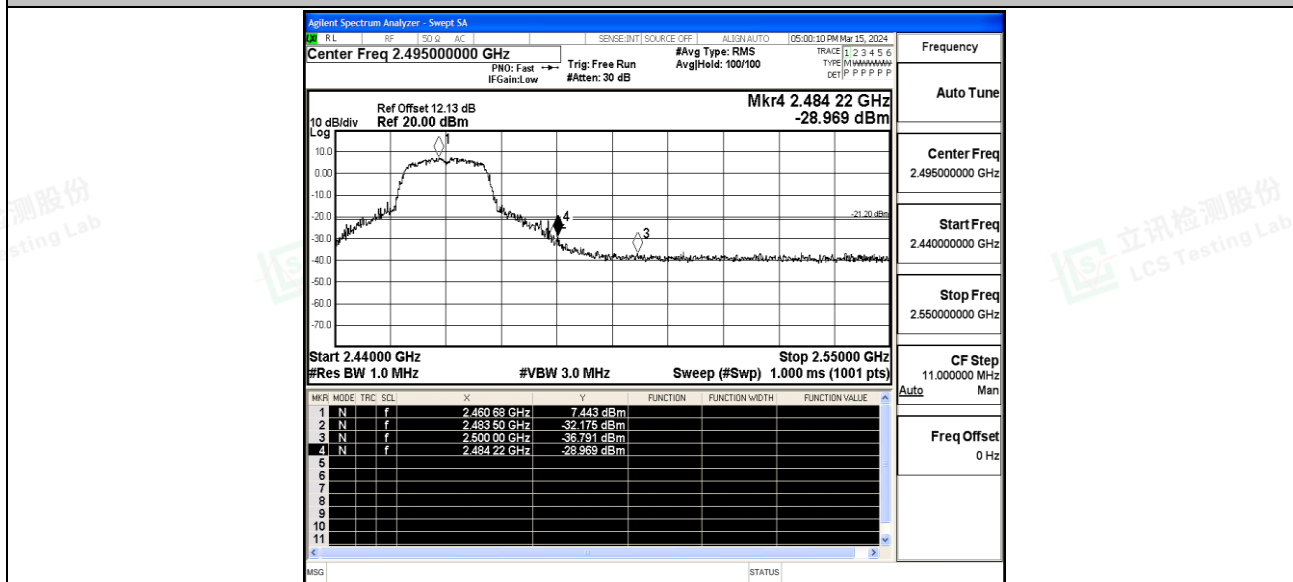
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11G_Ant_High_2462_Peak



11N20SISO_Ant_Low_2412_AV

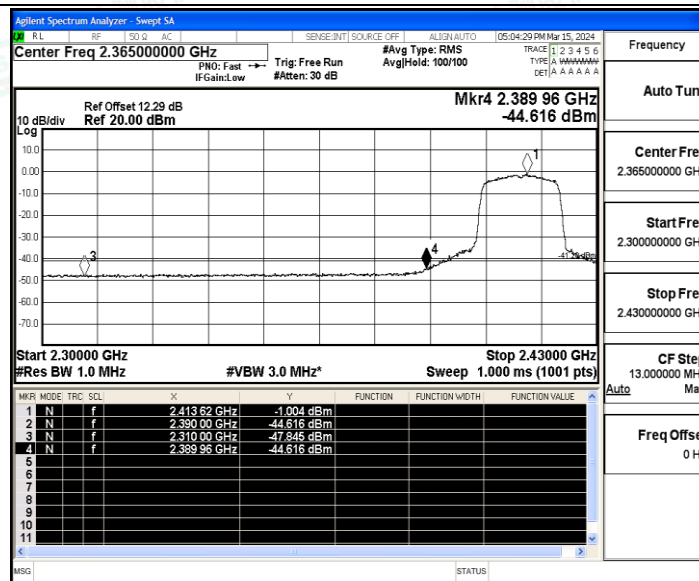


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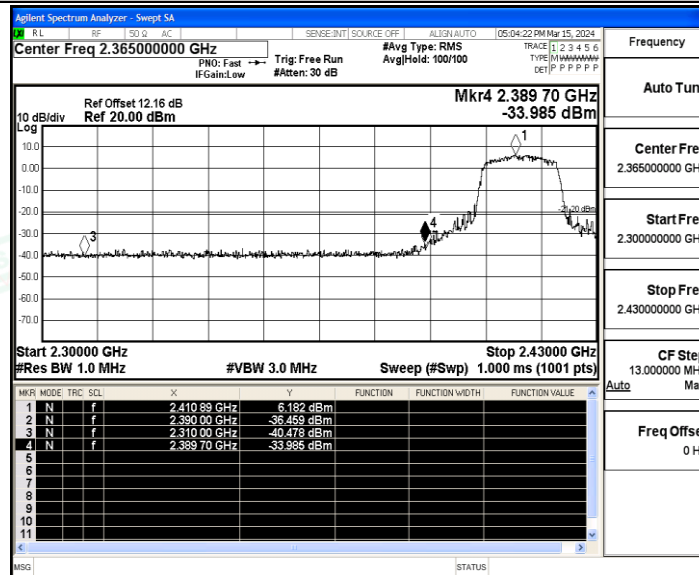
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11N20SISO_Ant_Low_2412_Peak



11N20SISO_Ant_High_2462_AV

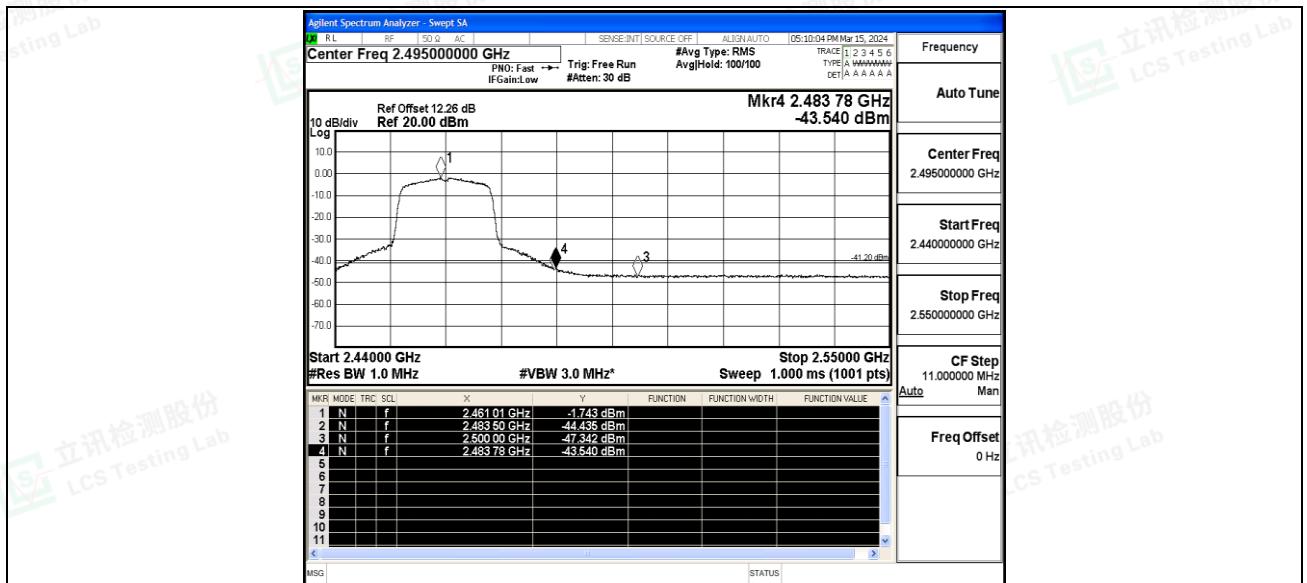


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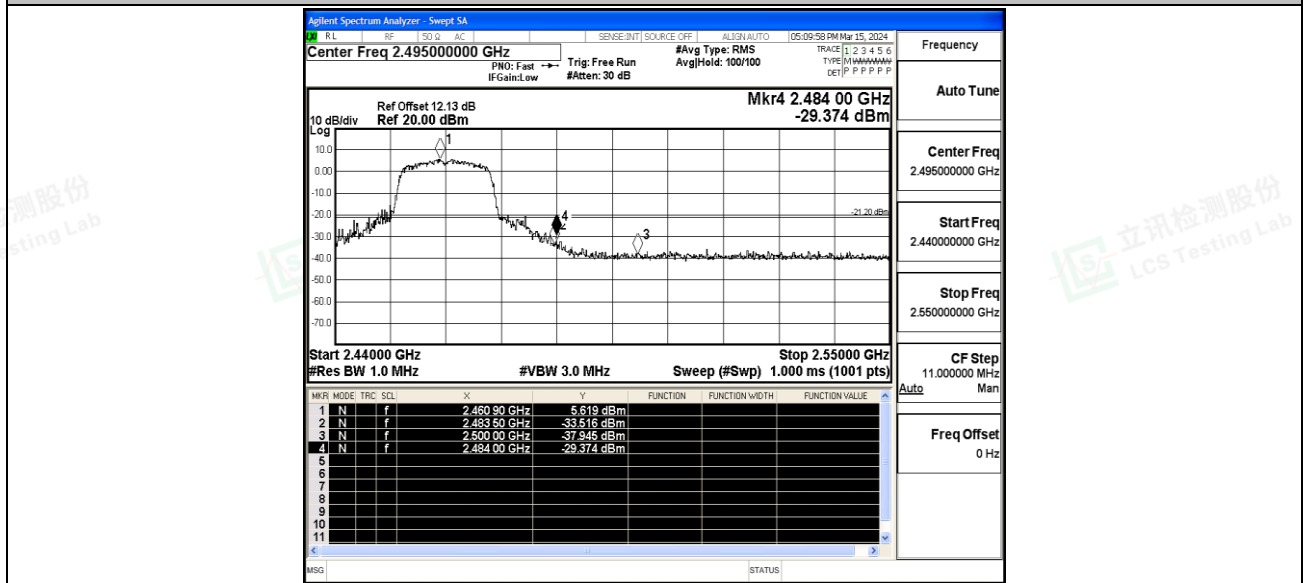
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_High_2462_Peak



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