



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Smart visual ear-clean Rod

Test Model: Home 30S

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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A.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	10.080	2431.960	2442.040	0.5	PASS
		2462	10.000	2457.000	2467.000	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.400	2428.760	2445.160	0.5	PASS
		2462	16.320	2453.840	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	35.760	2404.160	2439.920	0.5	PASS
		2437	36.000	2419.080	2455.080	0.5	PASS
		2452	35.840	2434.080	2469.920	0.5	PASS



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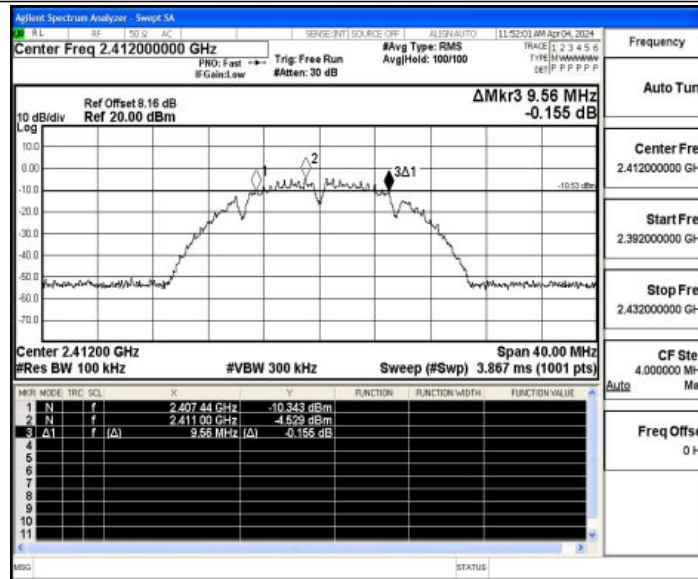
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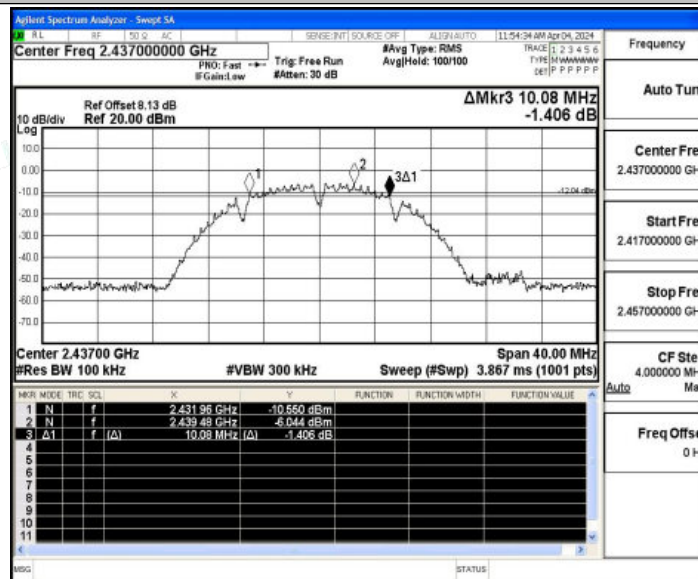


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

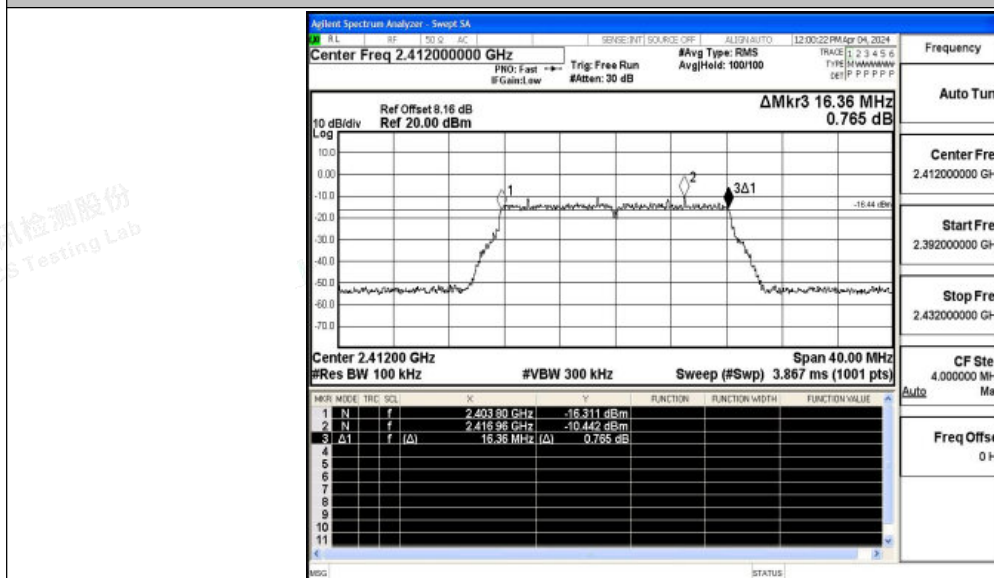
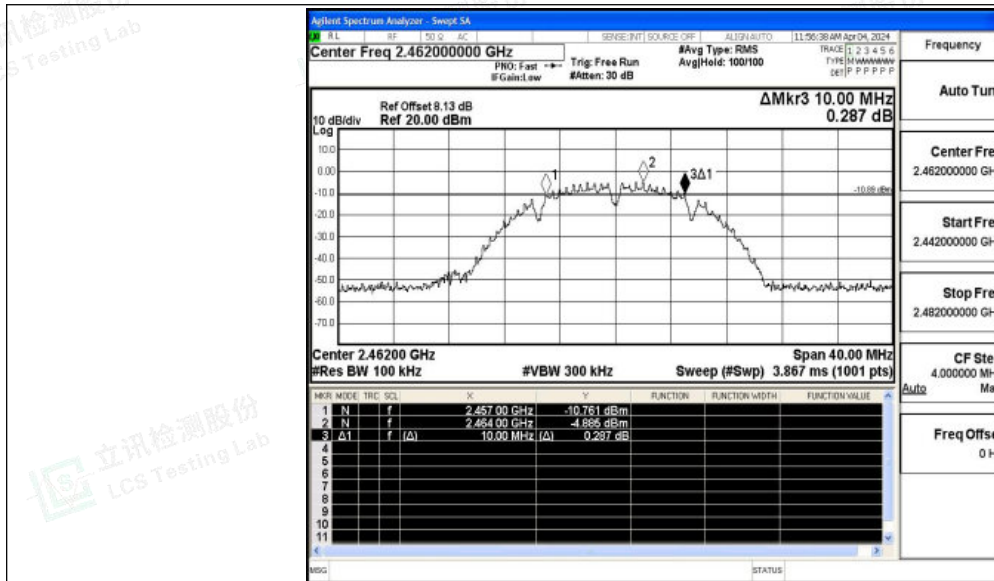


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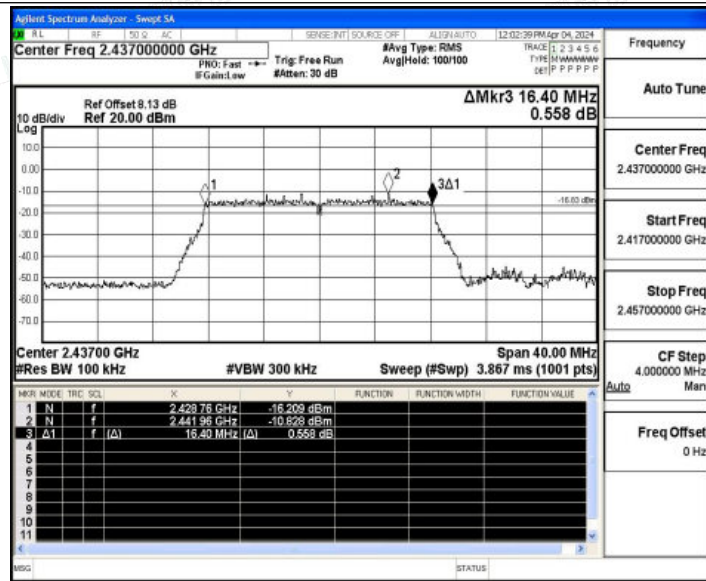


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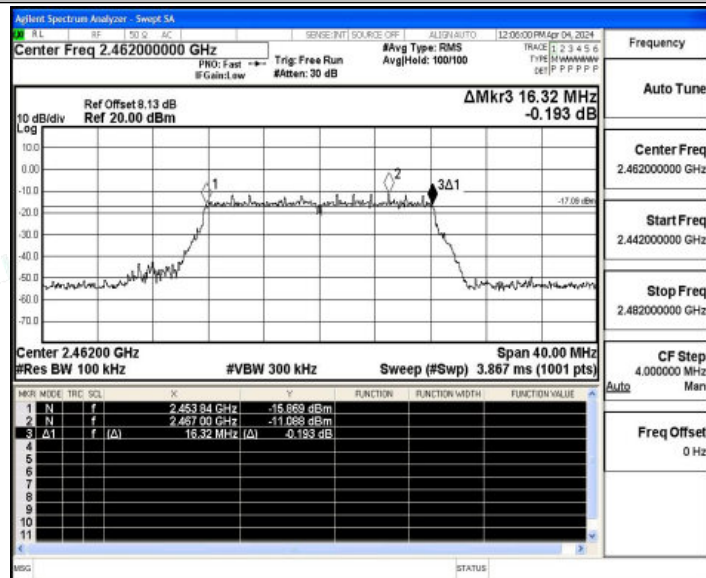
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11G_Ant1_2462



11N20SISO_Ant1_2412

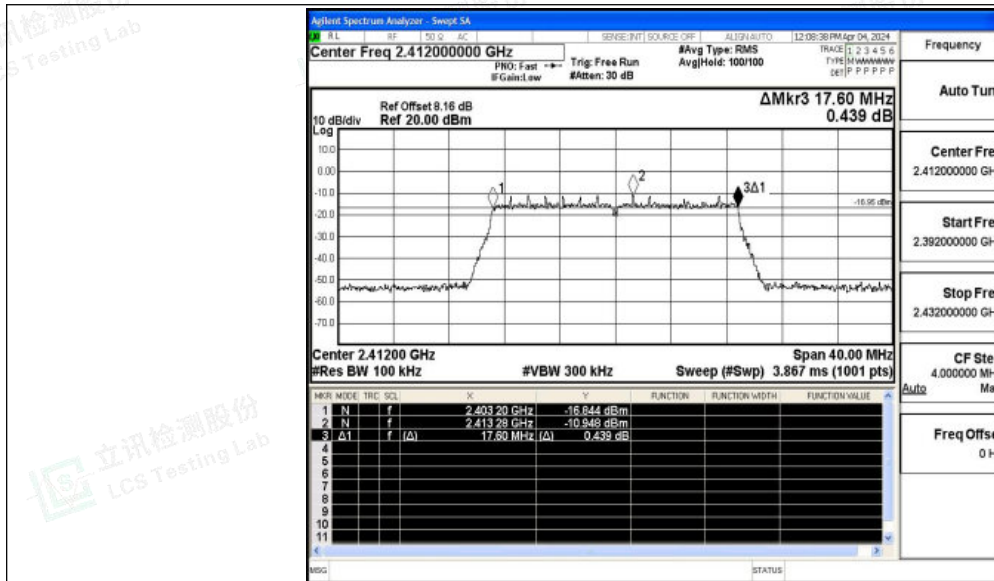


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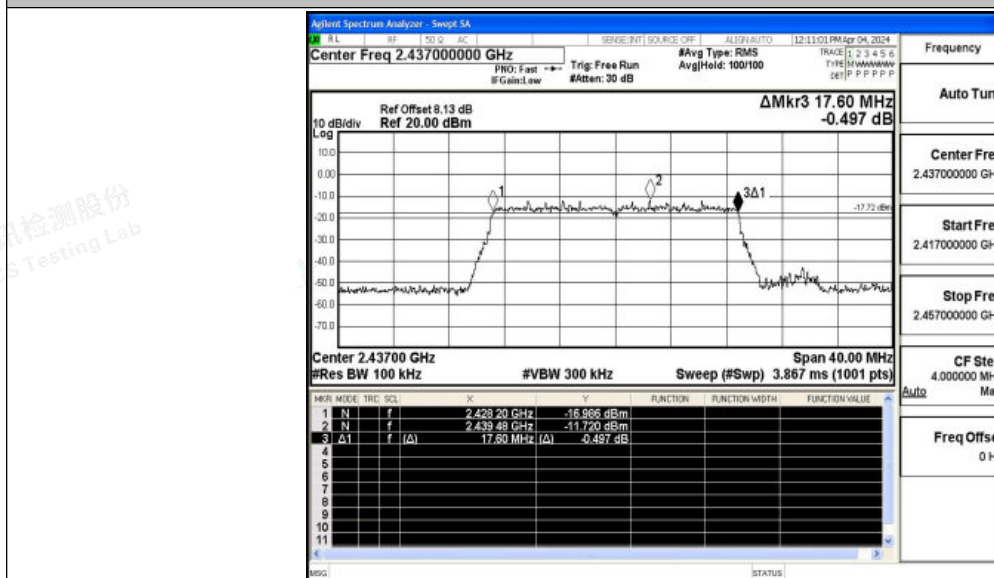
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11N20ISO_Ant1_2437



11N20ISO_Ant1_2462

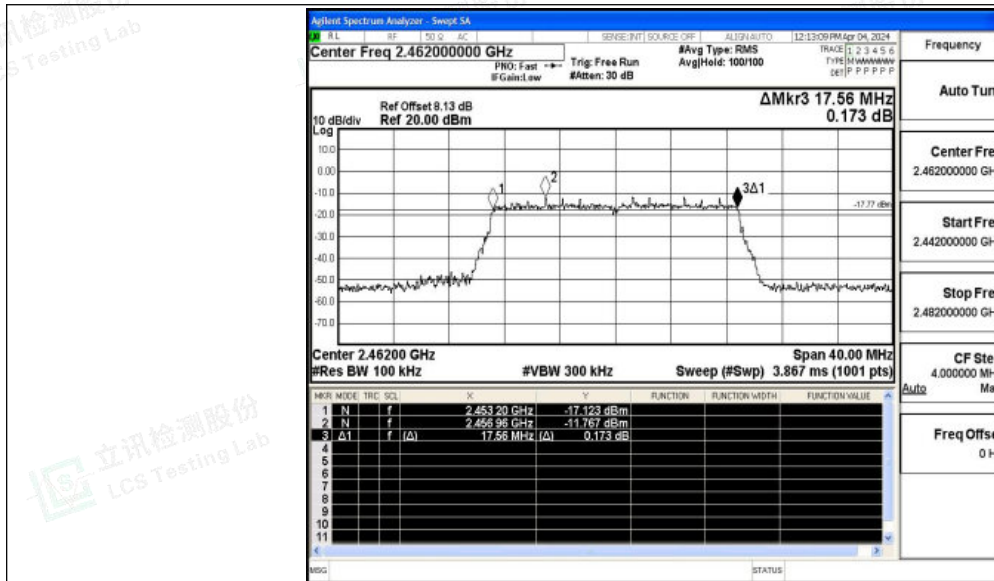


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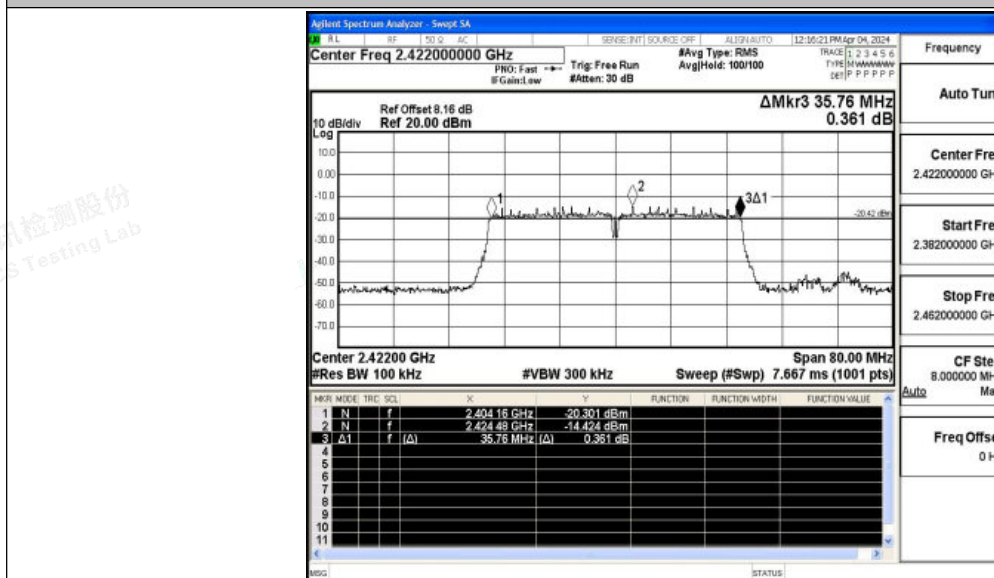
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11N40ISO_Ant1_2422



11N40ISO_Ant1_2437

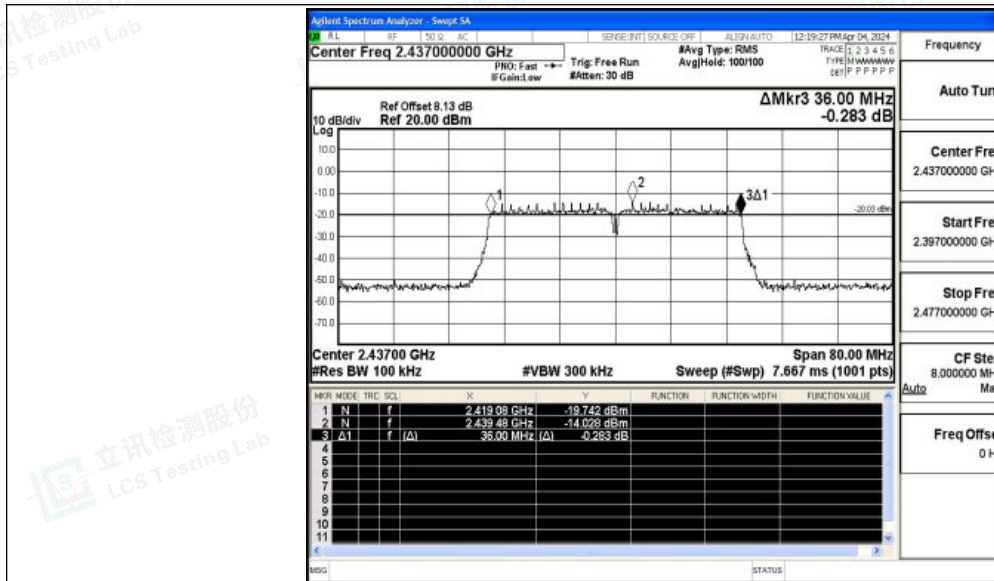


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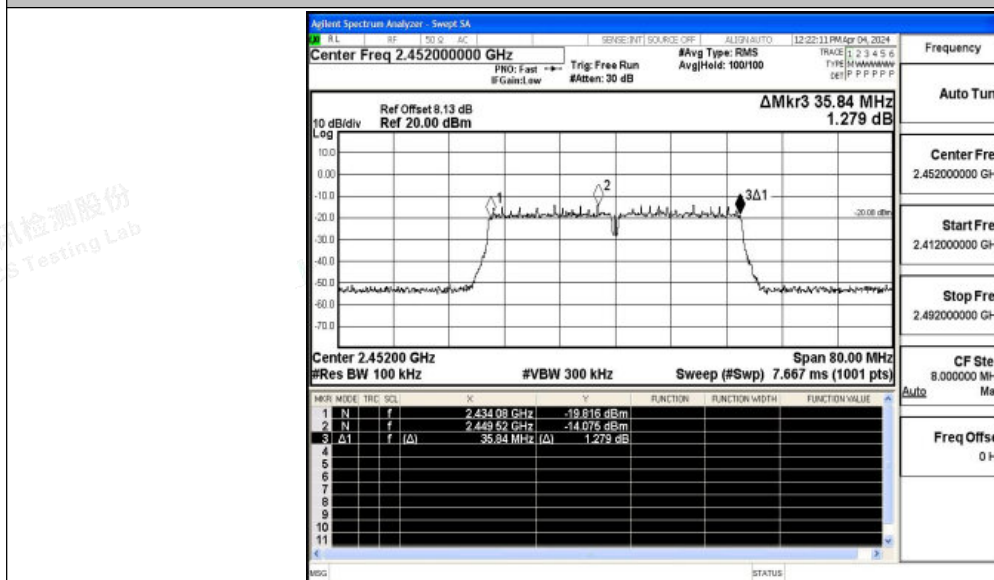
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11N40ISO_Ant1_2452



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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	7.39	≤30.00	PASS
		2437	7.10	≤30.00	PASS
		2462	7.25	≤30.00	PASS
11G	Ant1	2412	7.52	≤30.00	PASS
		2437	6.91	≤30.00	PASS
		2462	6.49	≤30.00	PASS
11N20SISO	Ant1	2412	6.64	≤30.00	PASS
		2437	6.35	≤30.00	PASS
		2462	6.01	≤30.00	PASS
11N40SISO	Ant1	2422	5.98	≤30.00	PASS
		2437	6.70	≤30.00	PASS
		2452	6.37	≤30.00	PASS



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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.13	≤8.00	PASS
		2437	-18.35	≤8.00	PASS
		2462	-17.09	≤8.00	PASS
11G	Ant1	2412	-21.23	≤8.00	PASS
		2437	-20.57	≤8.00	PASS
		2462	-21.02	≤8.00	PASS
11N20SISO	Ant1	2412	-20.98	≤8.00	PASS
		2437	-21.23	≤8.00	PASS
		2462	-20.48	≤8.00	PASS
11N40SISO	Ant1	2422	-21.19	≤8.00	PASS
		2437	-21.08	≤8.00	PASS
		2452	-20.90	≤8.00	PASS



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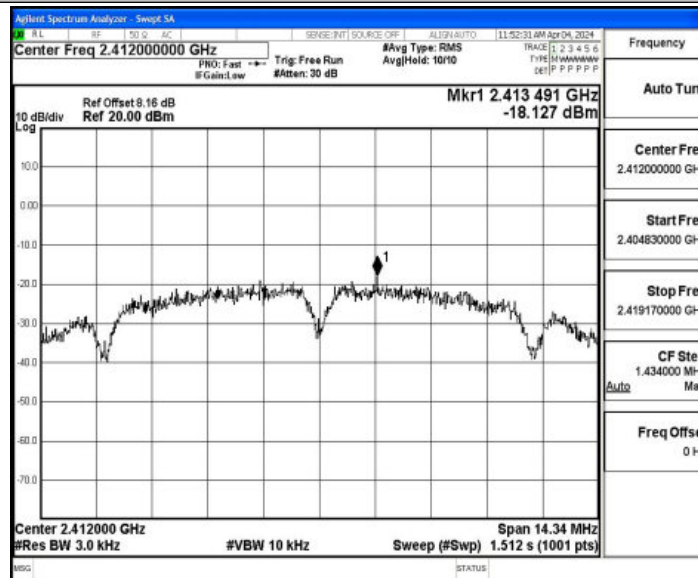
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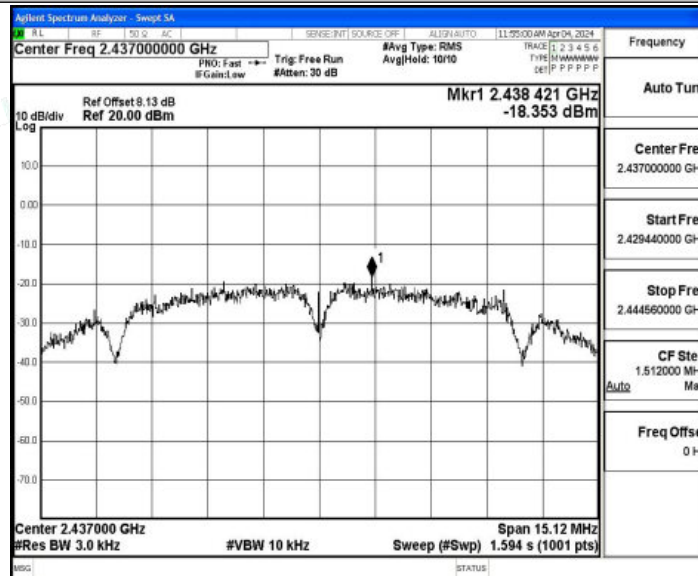


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

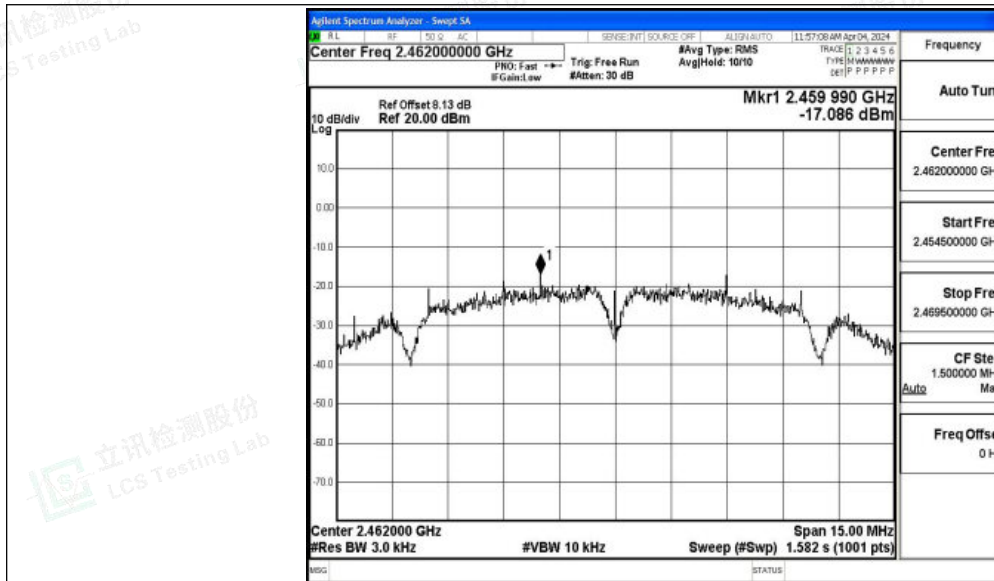


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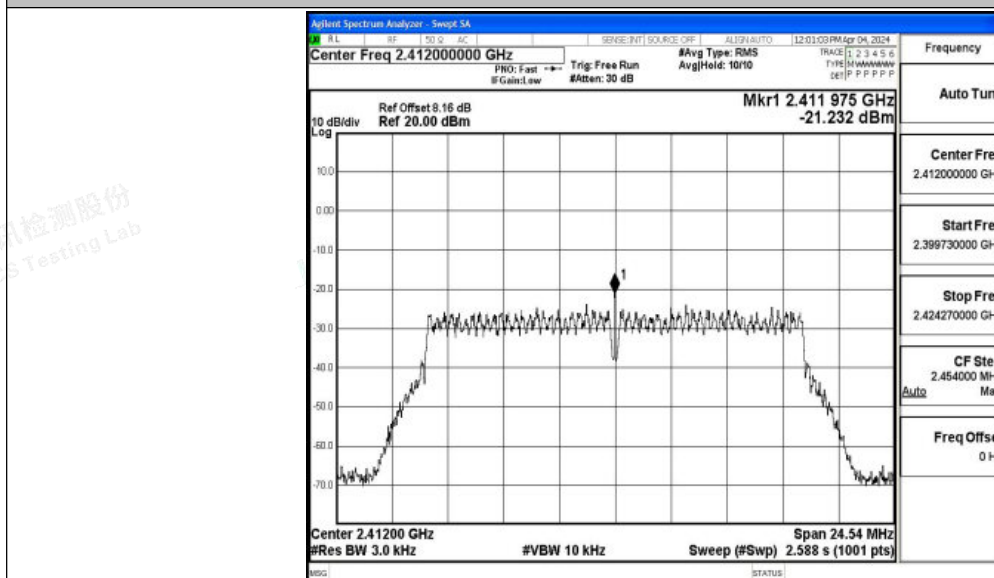
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11G_Ant1_2412



11G_Ant1_2437

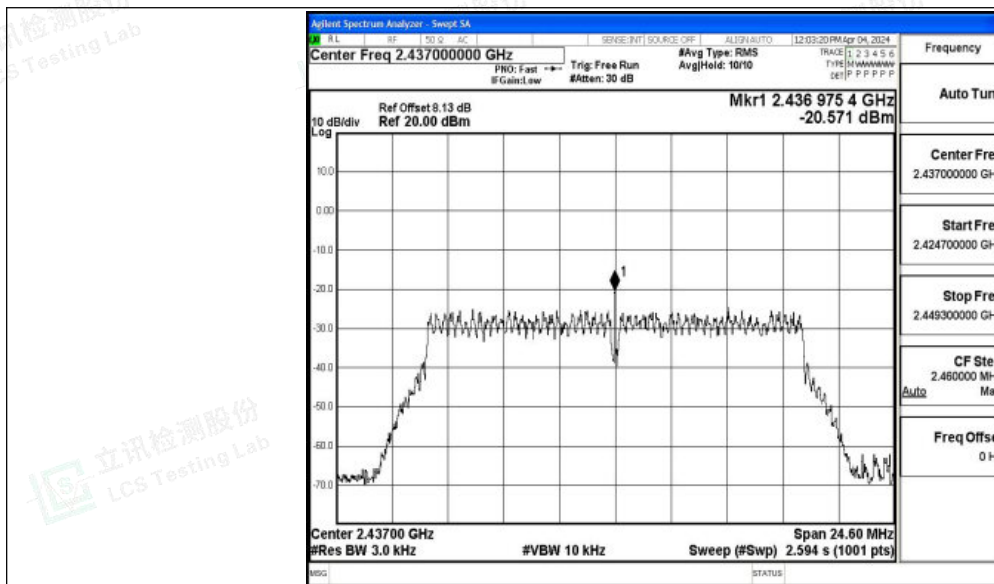


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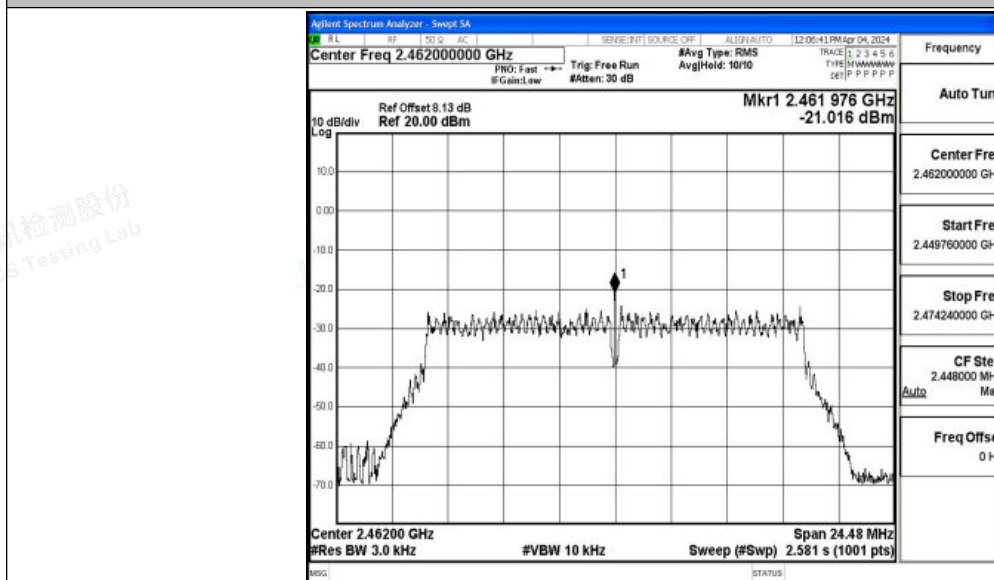
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11G_Ant1_2462



11N20SISO_Ant1_2412

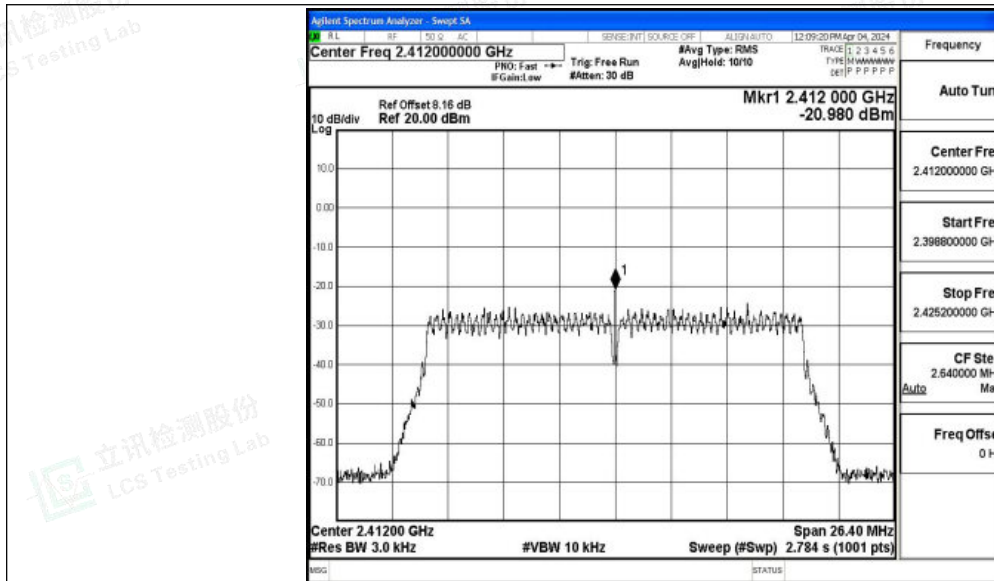


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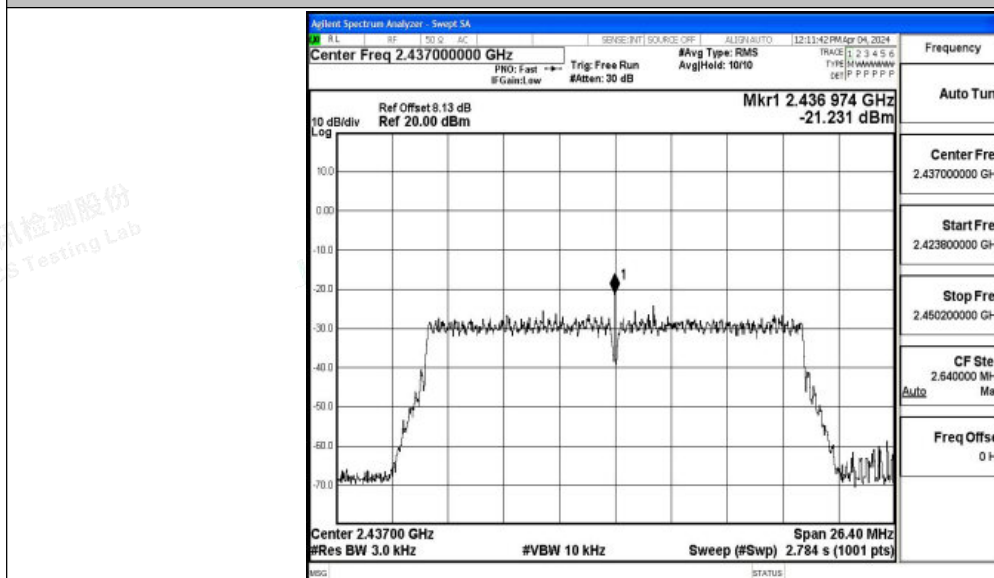
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

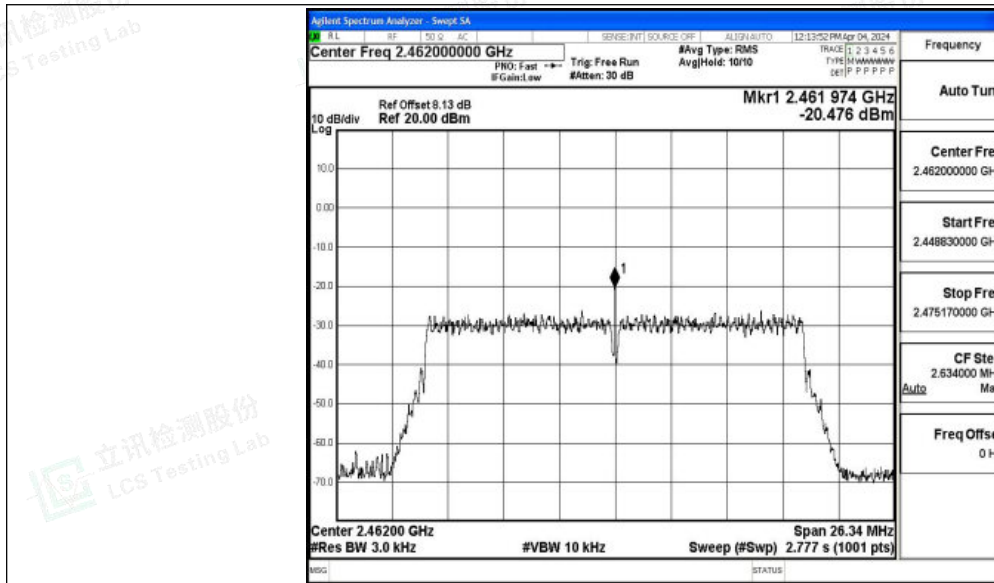


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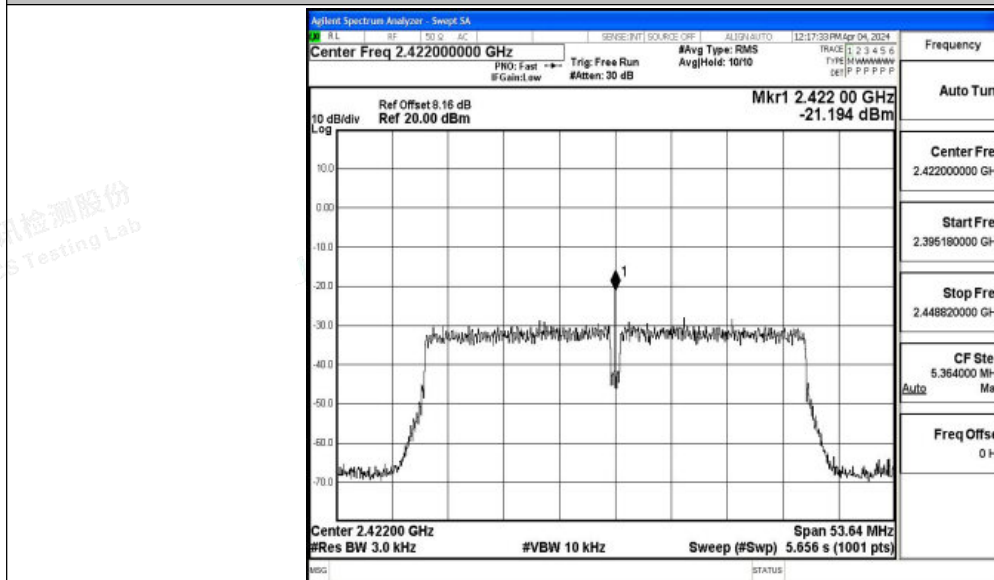
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

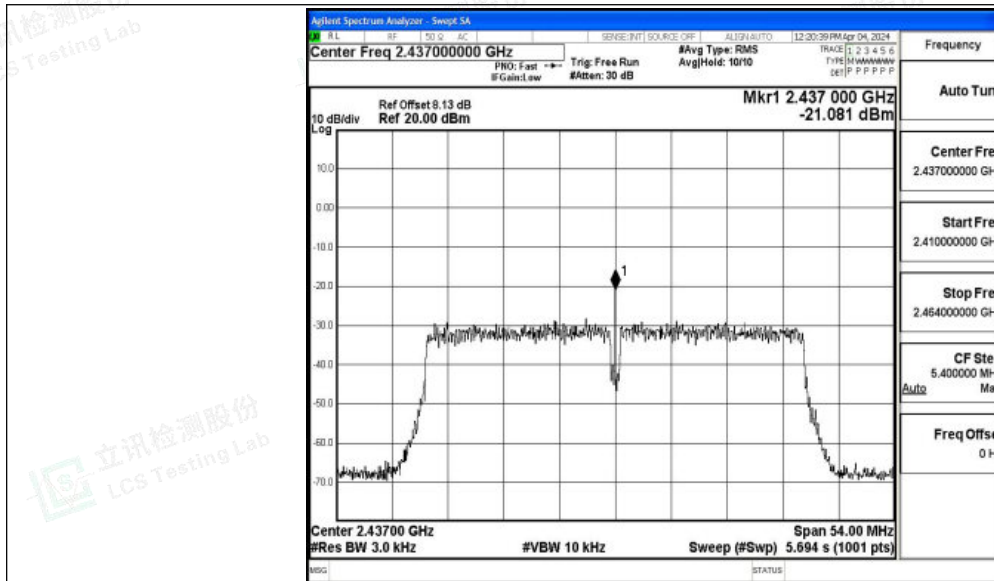


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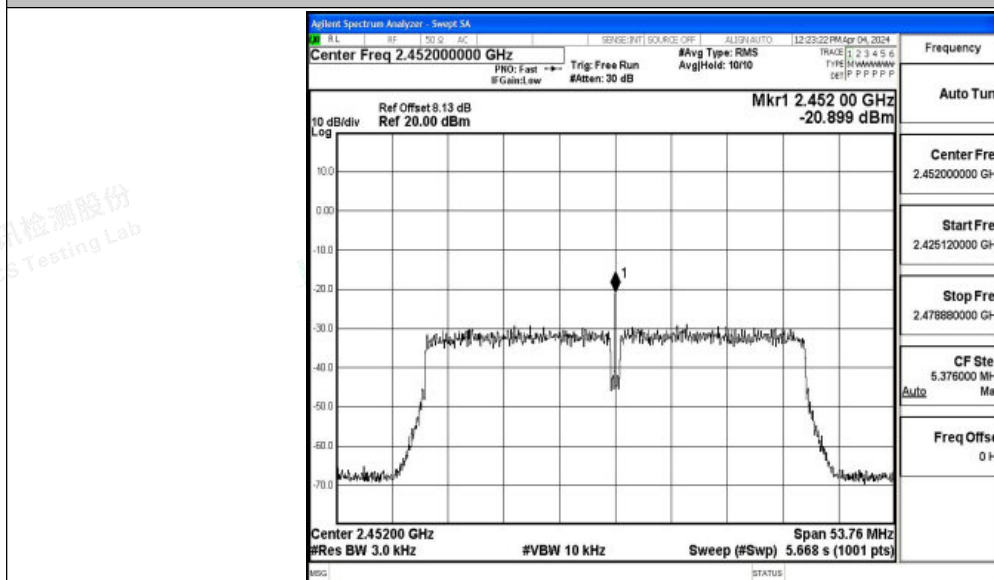
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11N40SISO_Ant1_2452



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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-5.56	-48.77	≤ -25.56	PASS
		High	2462	-4.65	-49.25	≤ -24.65	PASS
11G	Ant1	Low	2412	-10.69	-50.09	≤ -30.69	PASS
		High	2462	-11.59	-48.52	≤ -31.59	PASS
11N20SISO	Ant1	Low	2412	-11.14	-50.6	≤ -31.14	PASS
		High	2462	-11.66	-49.69	≤ -31.66	PASS
11N40SISO	Ant1	Low	2422	-14.40	-50.54	≤ -34.4	PASS
		High	2452	-14.12	-50.14	≤ -34.12	PASS



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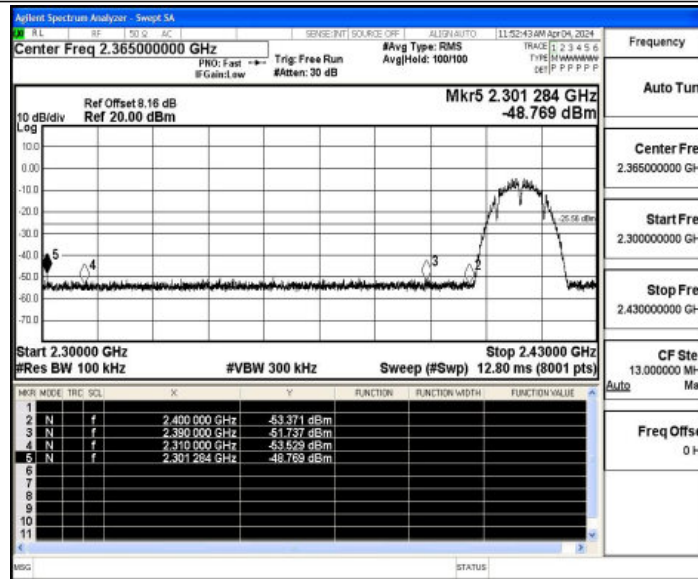
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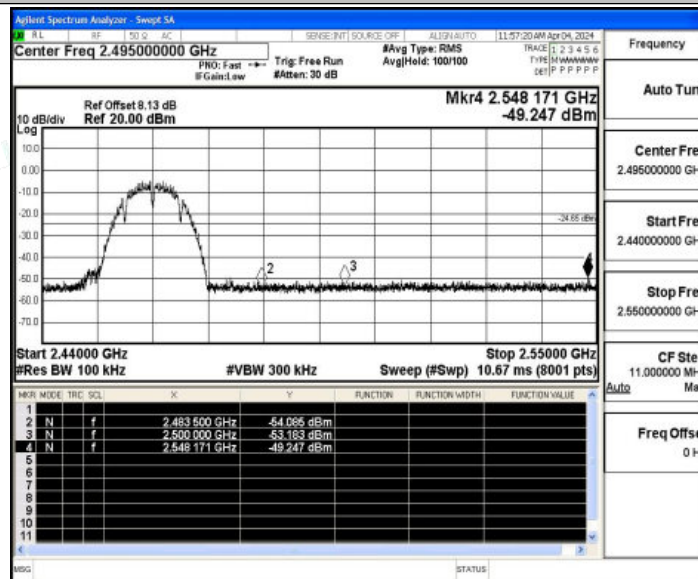


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

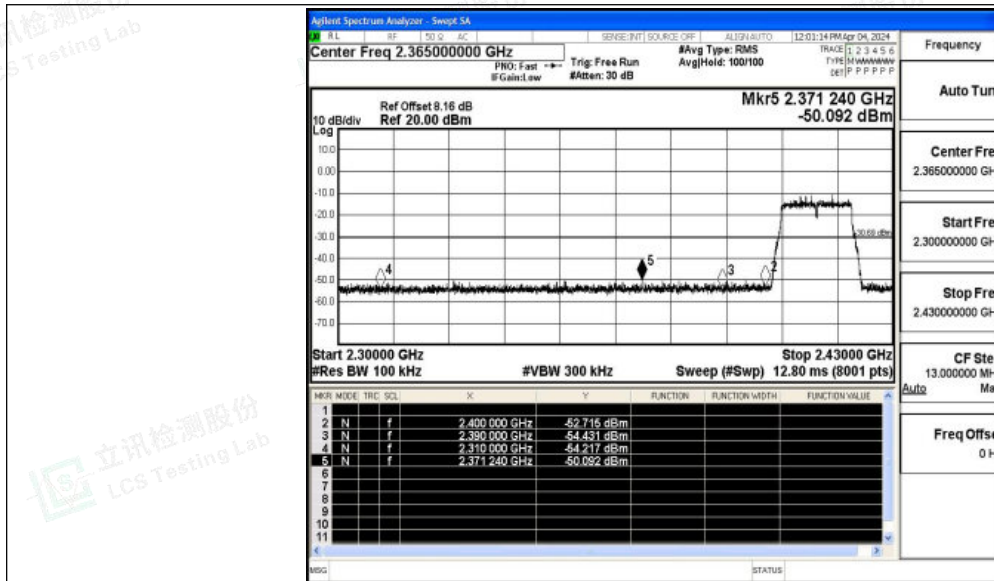


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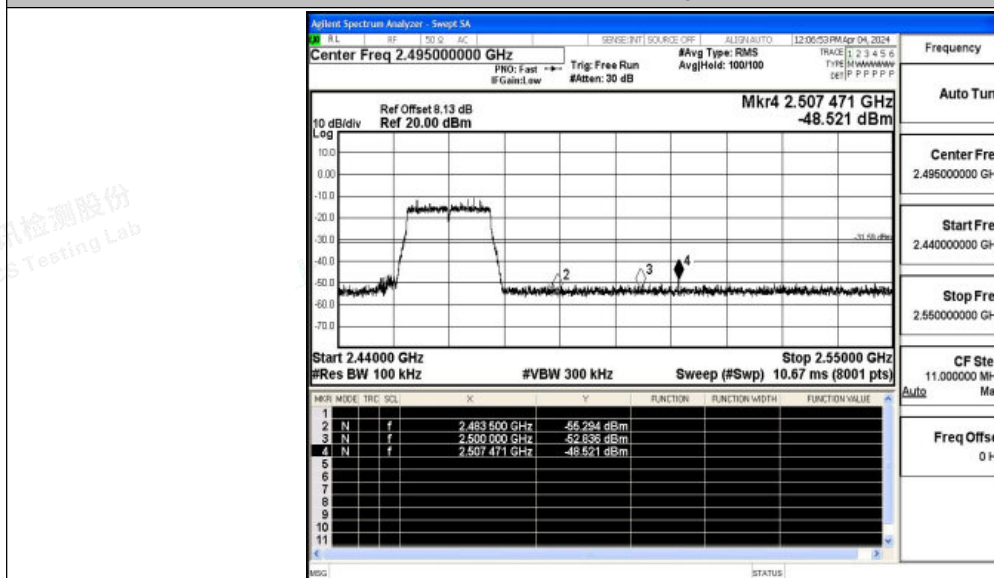
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

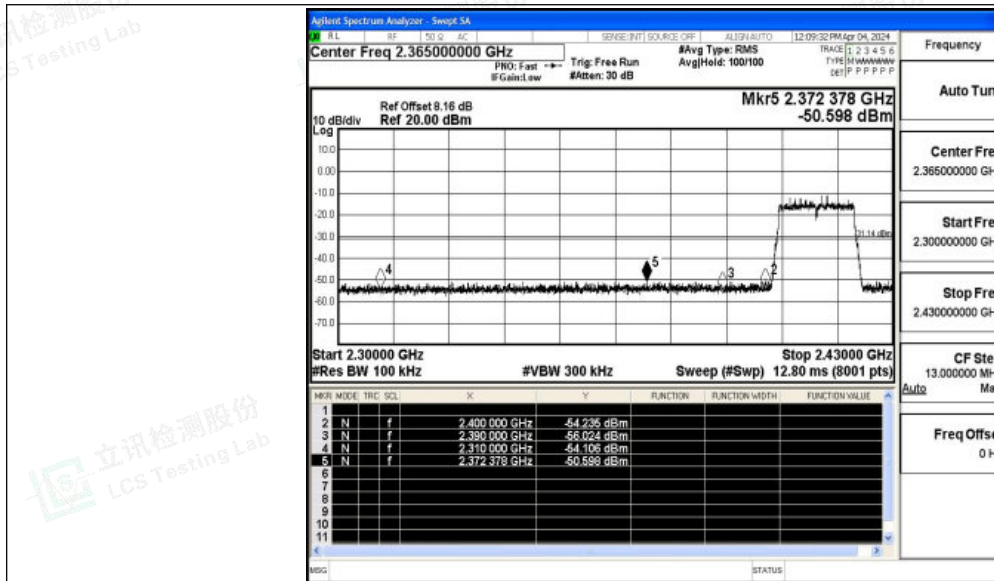


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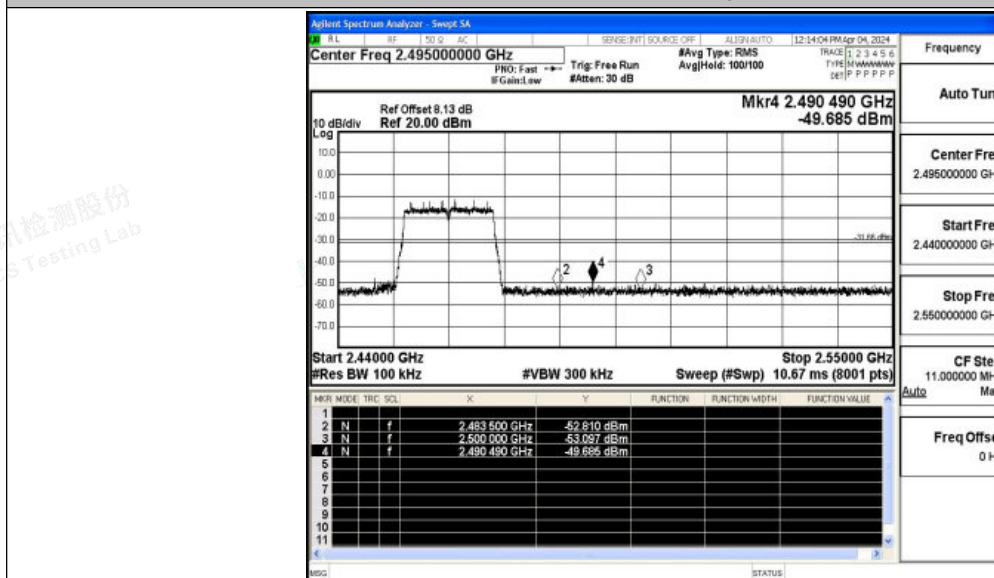
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11N20ISO_Ant1_High_2462



11N40ISO_Ant1_Low_2422

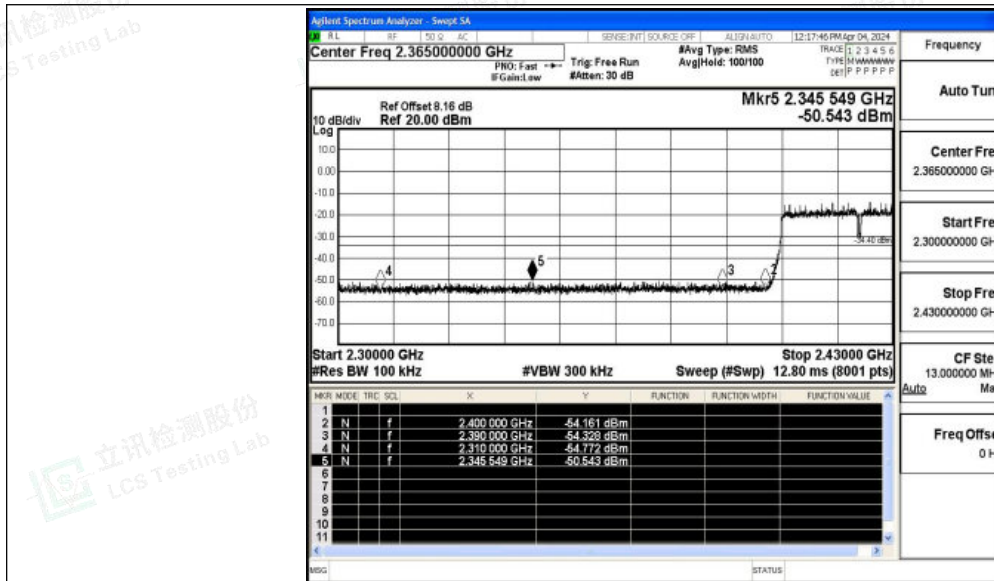


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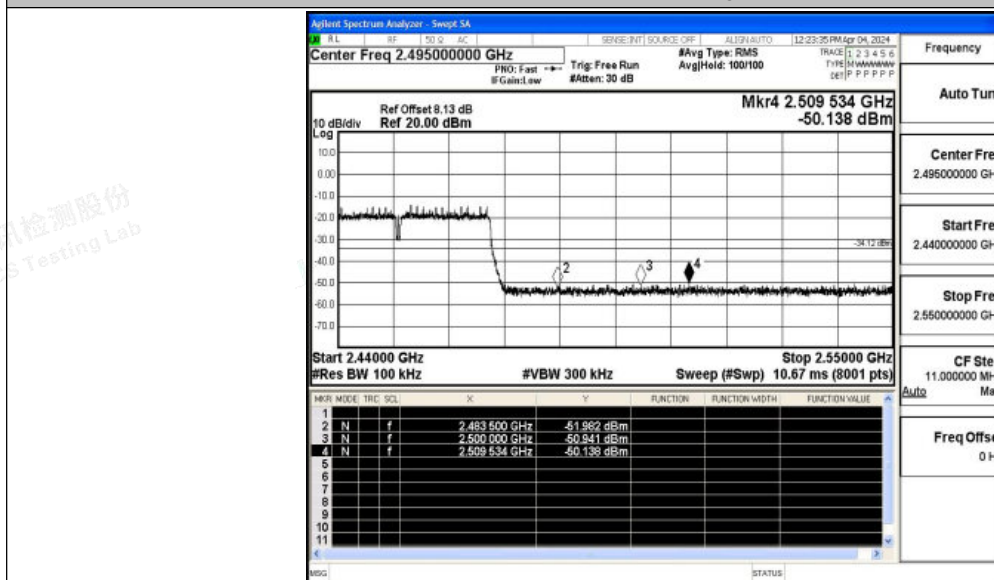
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11N40SISO_Ant1_High_2452



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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	-5.56	-62.02	≤-25.56	PASS
			1000~26500	-5.56	-49.5	≤-25.56	PASS
		2437	30~1000	-5.07	-62.02	≤-25.07	PASS
			1000~26500	-5.07	-49.23	≤-25.07	PASS
		2462	30~1000	-4.65	-61.67	≤-24.65	PASS
			1000~26500	-4.65	-49.16	≤-24.65	PASS
11G	Ant1	2412	30~1000	-10.69	-61.37	≤-30.69	PASS
			1000~26500	-10.69	-48.47	≤-30.69	PASS
		2437	30~1000	-10.80	-61.72	≤-30.8	PASS
			1000~26500	-10.80	-49.02	≤-30.8	PASS
		2462	30~1000	-11.59	-62.03	≤-31.59	PASS
			1000~26500	-11.59	-49.41	≤-31.59	PASS
11N20SISO	Ant1	2412	30~1000	-11.14	-61.32	≤-31.14	PASS
			1000~26500	-11.14	-49.24	≤-31.14	PASS
		2437	30~1000	-11.94	-61.71	≤-31.94	PASS
			1000~26500	-11.94	-49.74	≤-31.94	PASS
		2462	30~1000	-11.66	-61.25	≤-31.66	PASS
			1000~26500	-11.66	-48.95	≤-31.66	PASS
11N40SISO	Ant1	2422	30~1000	-14.40	-60.12	≤-34.4	PASS
			1000~26500	-14.40	-48.43	≤-34.4	PASS
		2437	30~1000	-13.78	-61.76	≤-33.78	PASS
			1000~26500	-13.78	-49.31	≤-33.78	PASS
		2452	30~1000	-14.12	-62.29	≤-34.12	PASS
			1000~26500	-14.12	-49.04	≤-34.12	PASS



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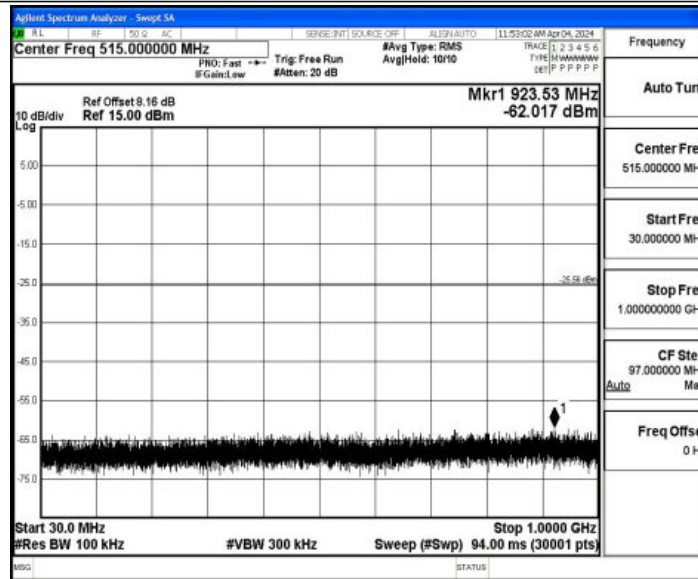
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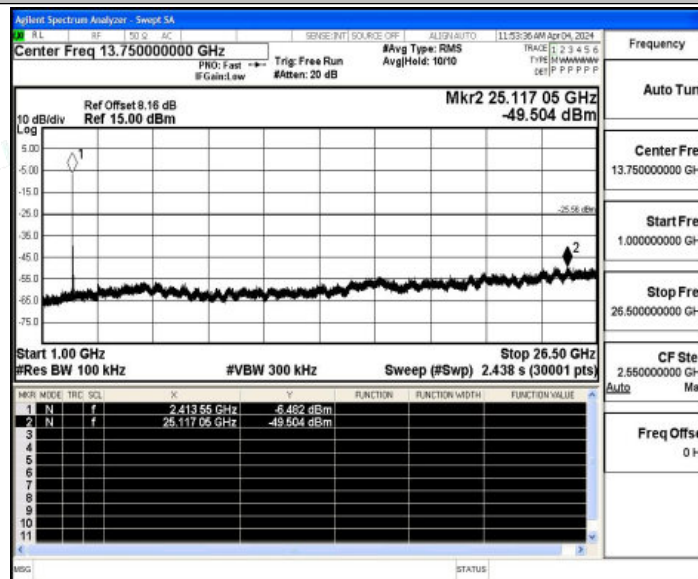


Test Graphs

11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



11B_Ant1_2437_30~1000

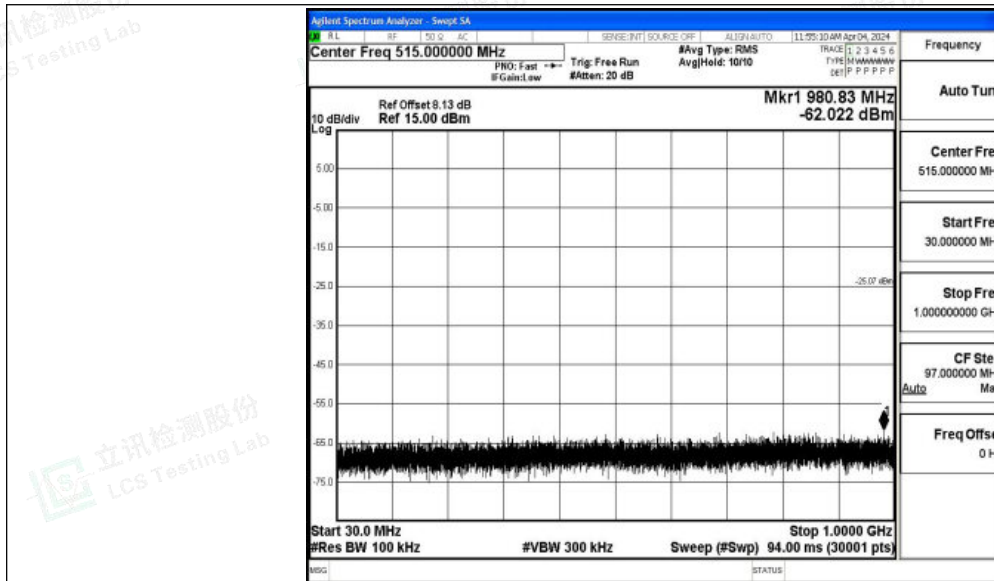


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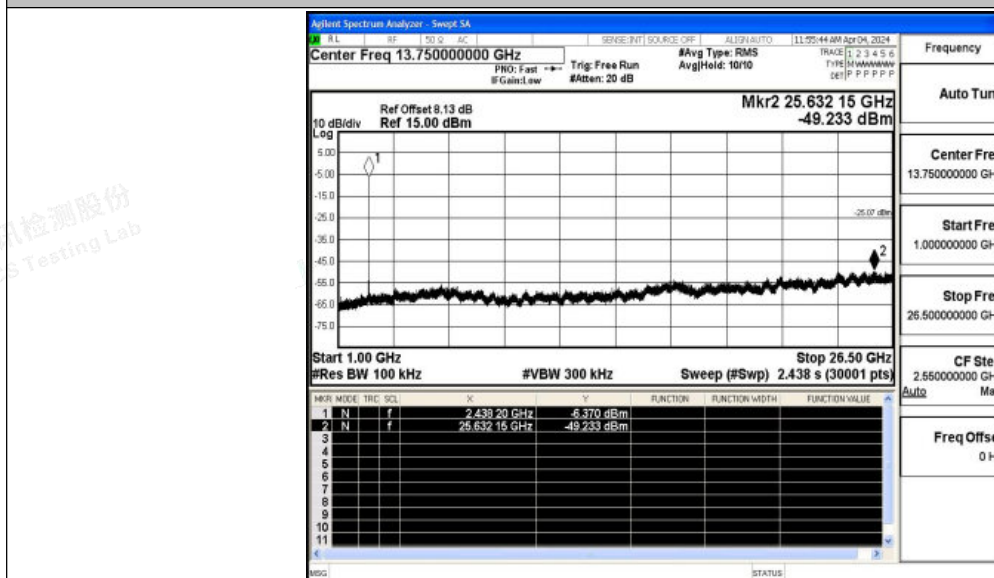
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_30~1000

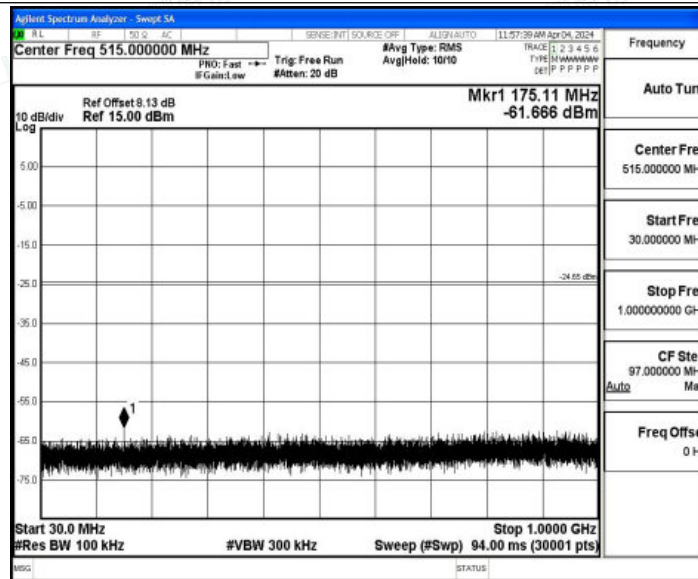


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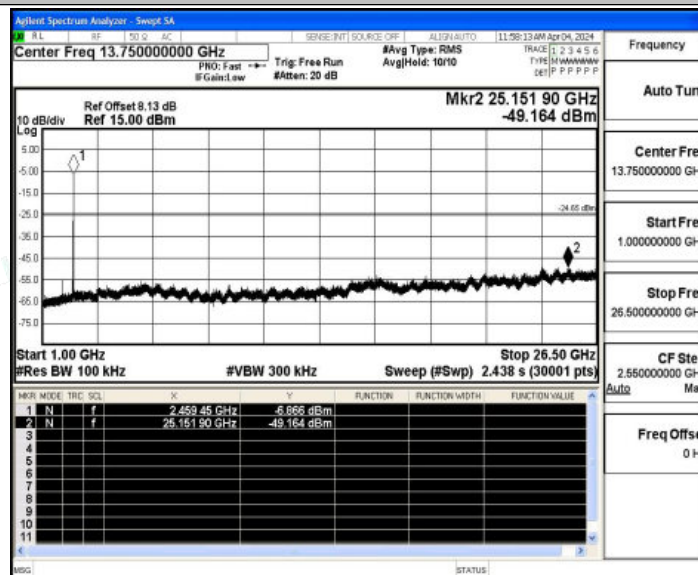
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11B_Ant1_2462_1000~26500



11G_Ant1_2412_30~1000

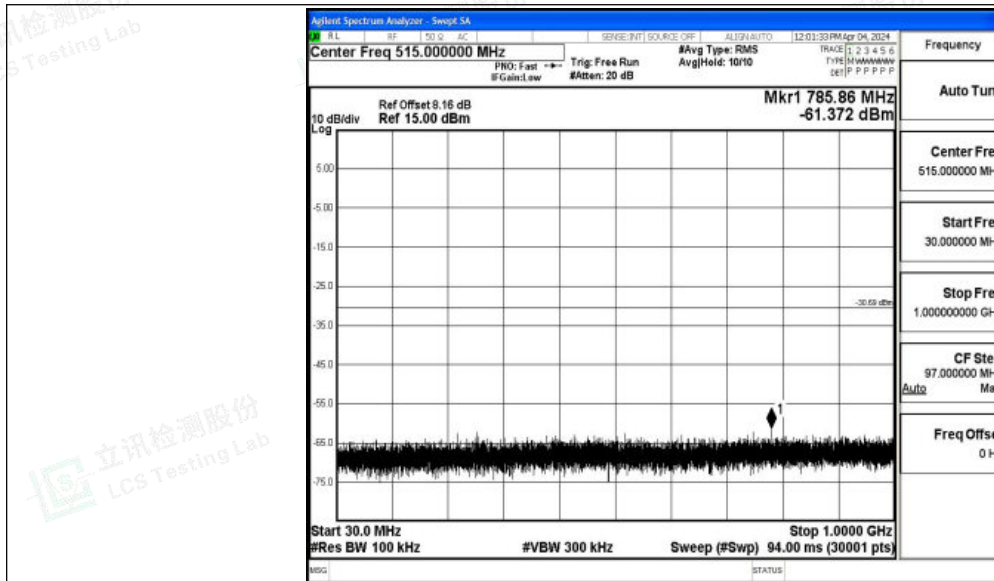


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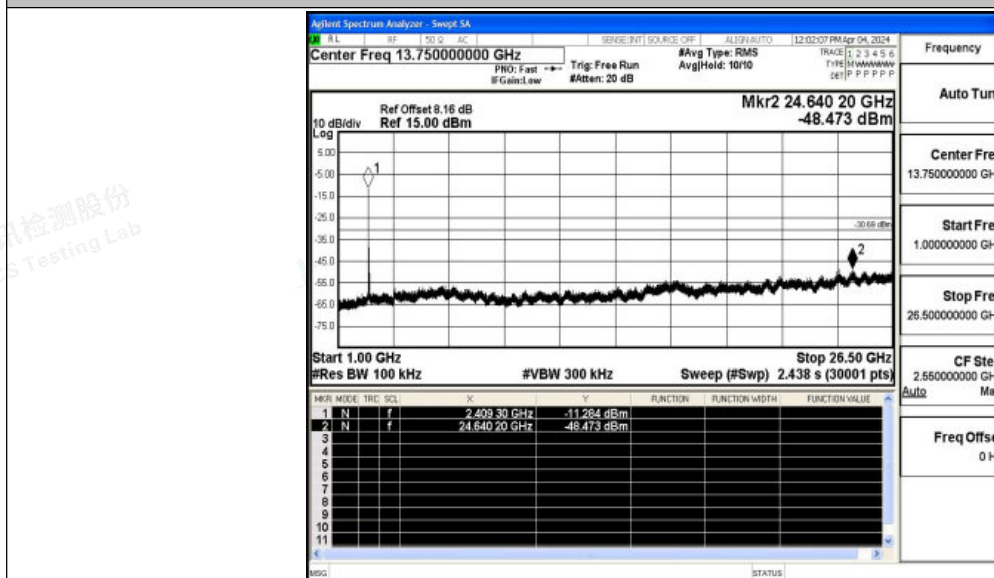
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412_1000~26500



11G_Ant1_2437_30~1000

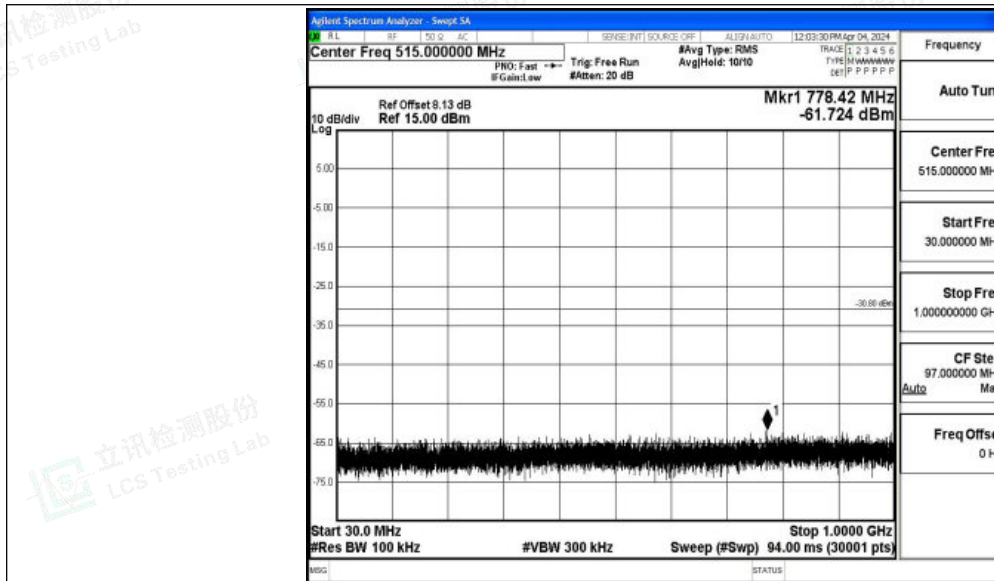


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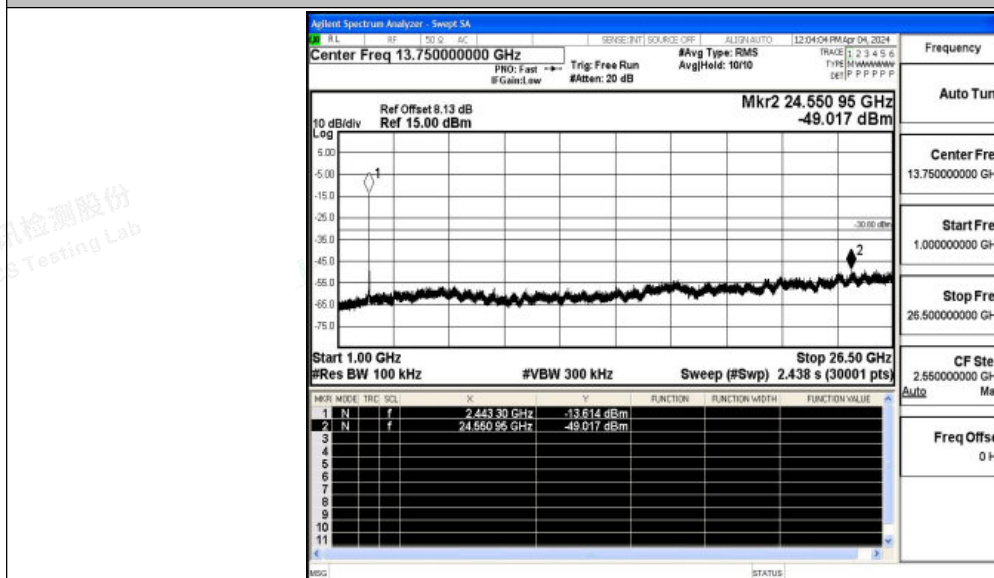
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2437_1000~26500



11G_Ant1_2462_30~1000

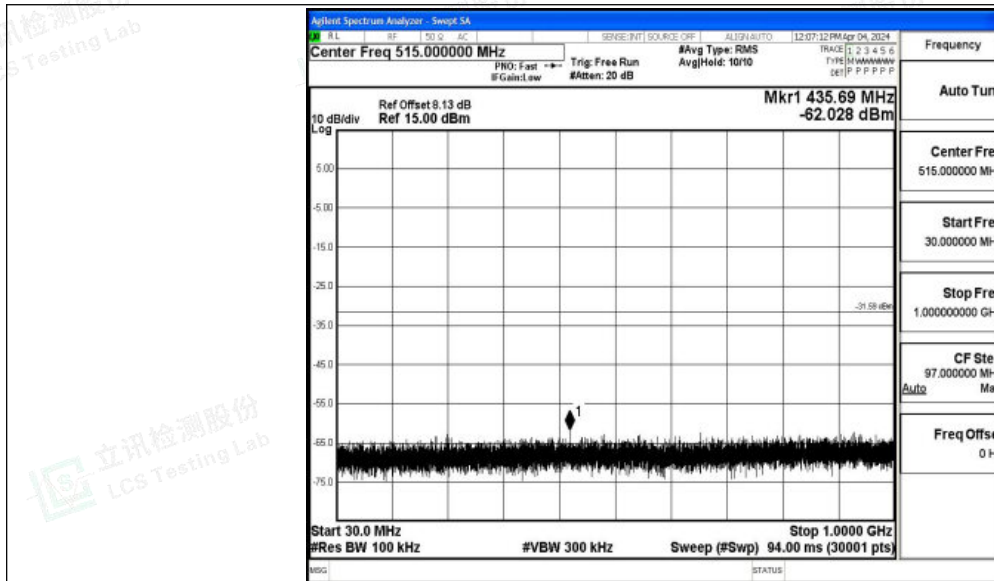


Shenzhen LCS Compliance Testing Laboratory Ltd.

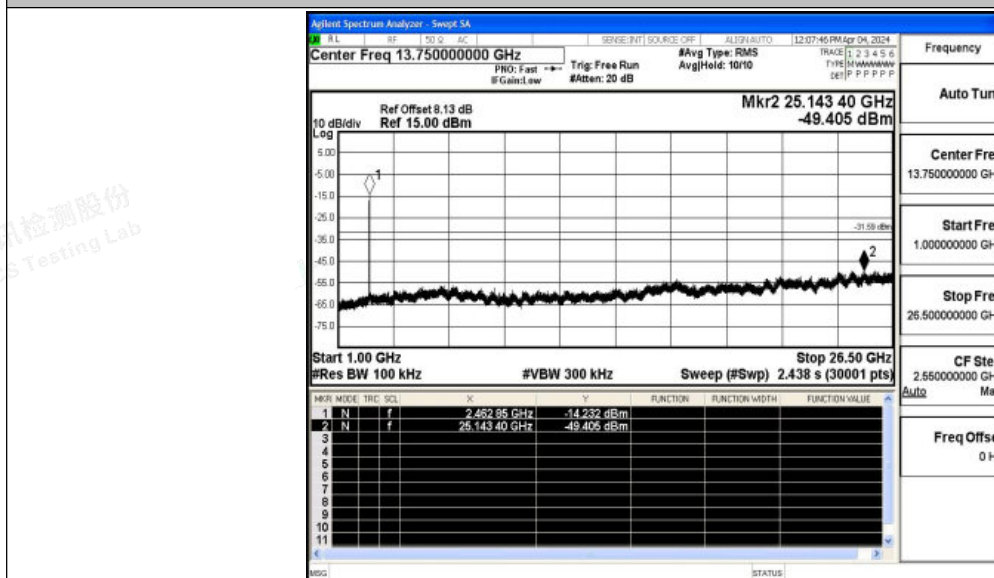
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_30~1000

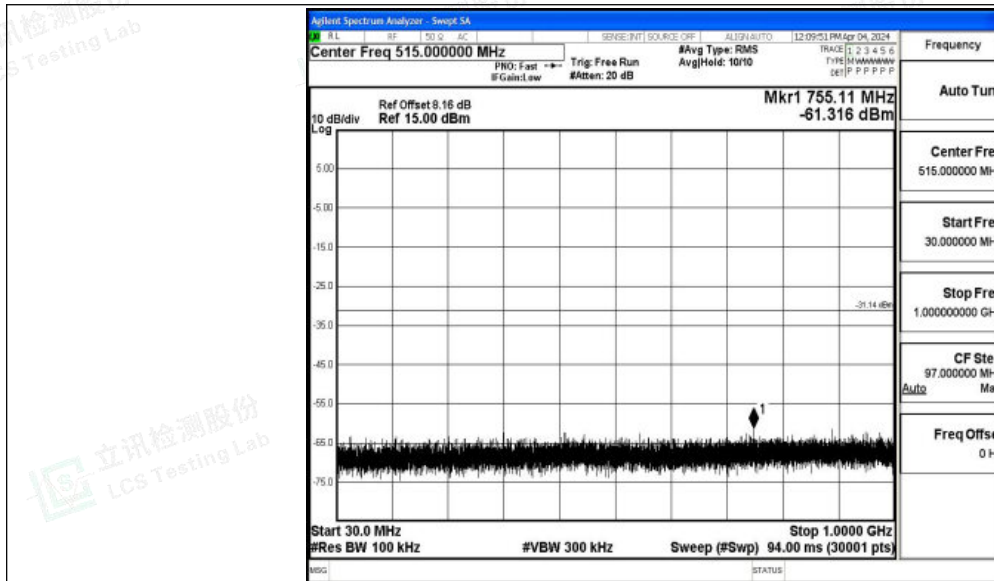


Shenzhen LCS Compliance Testing Laboratory Ltd.

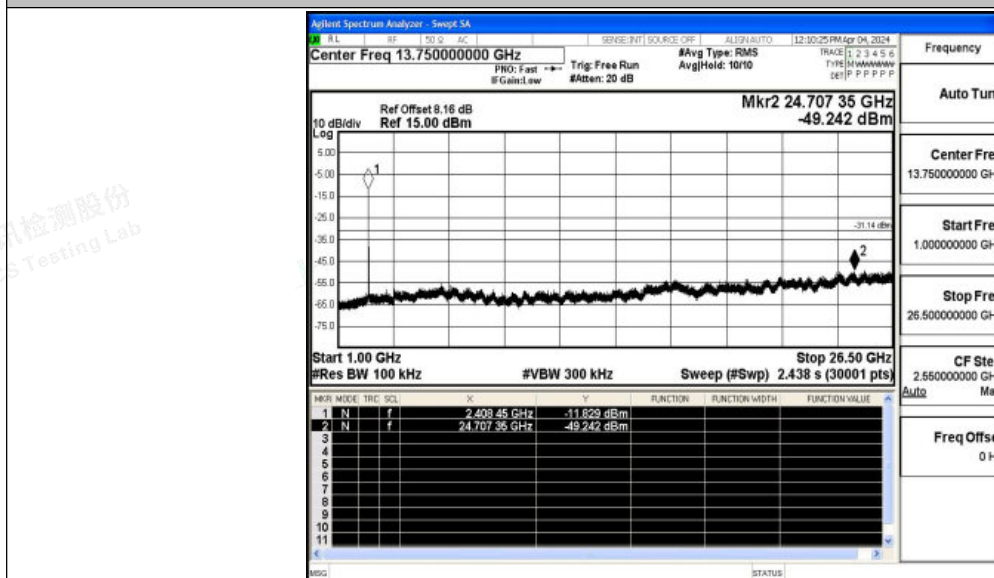
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_30~1000

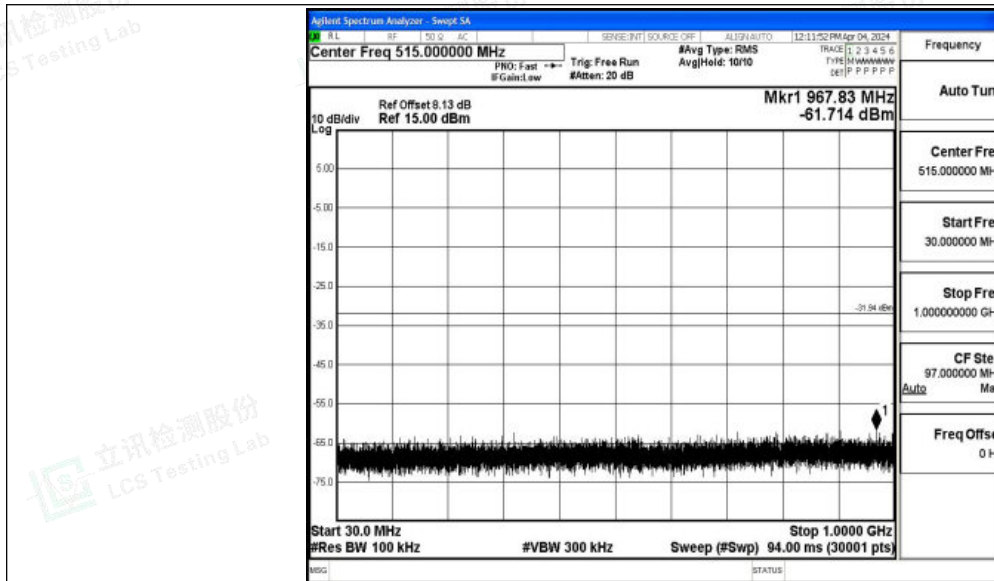


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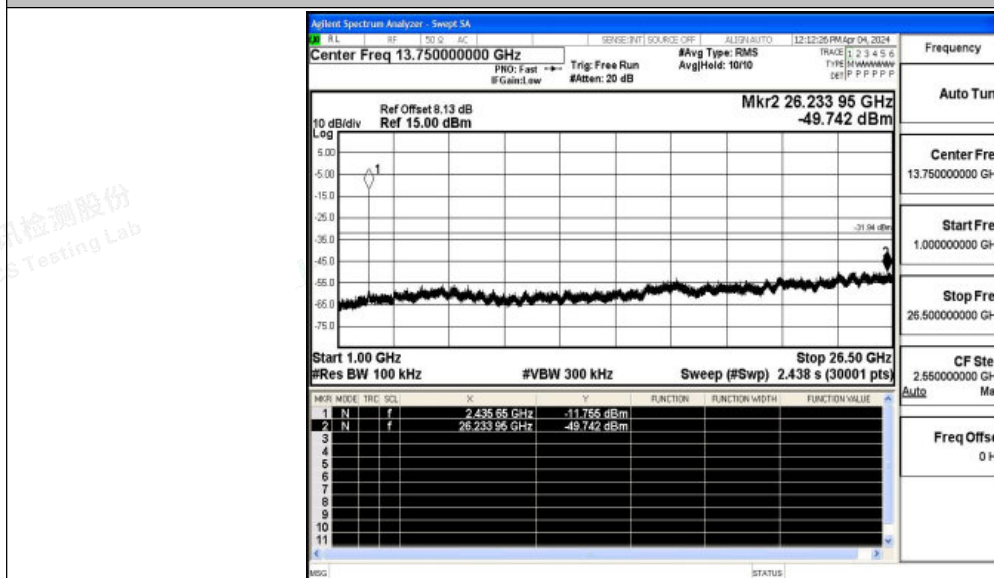
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_30~1000

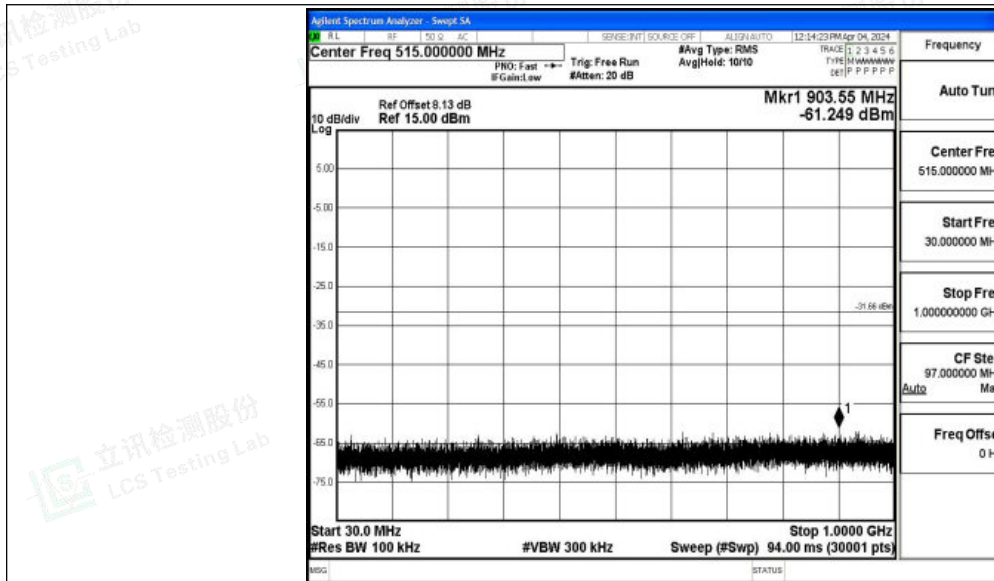


Shenzhen LCS Compliance Testing Laboratory Ltd.

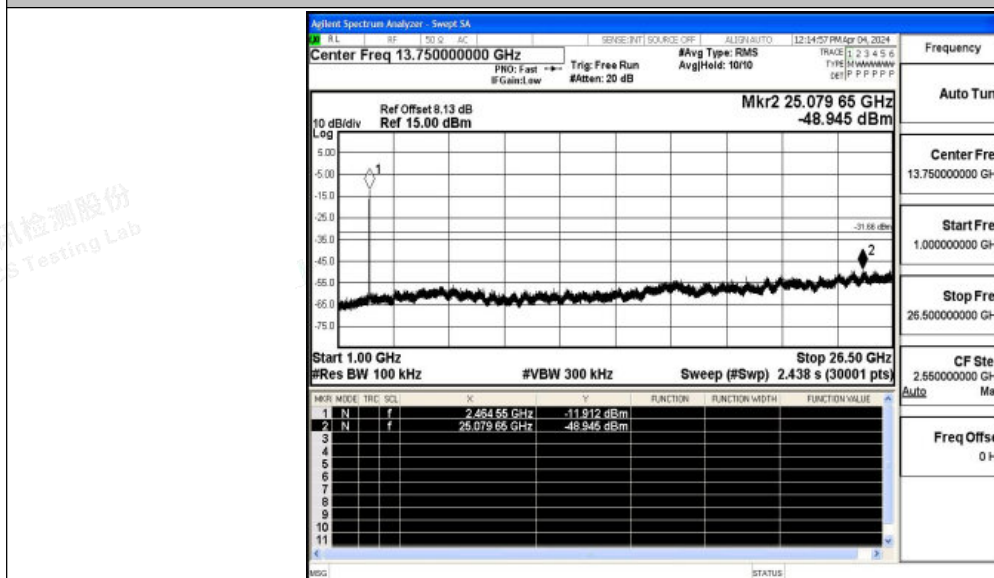
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_30~1000

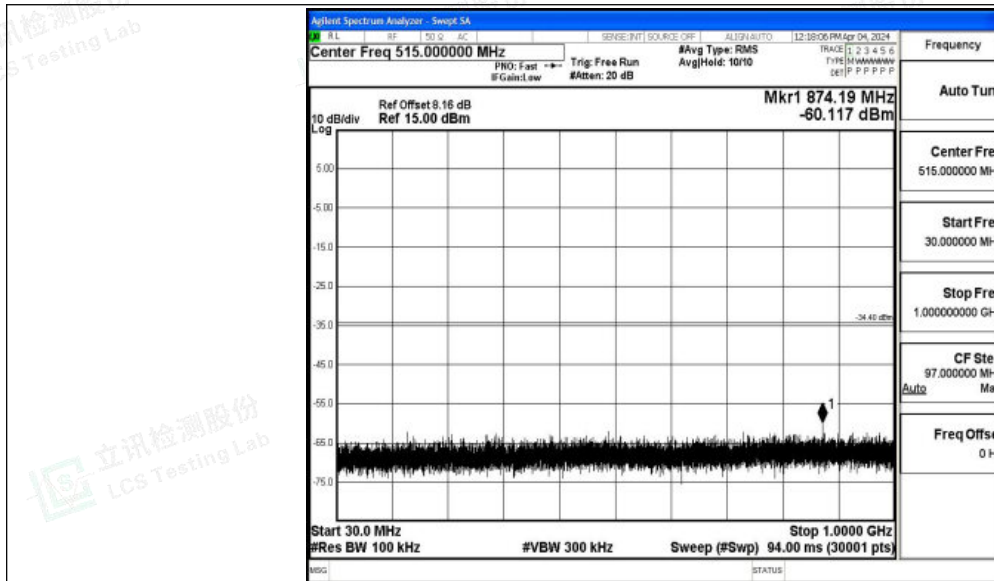


Shenzhen LCS Compliance Testing Laboratory Ltd.

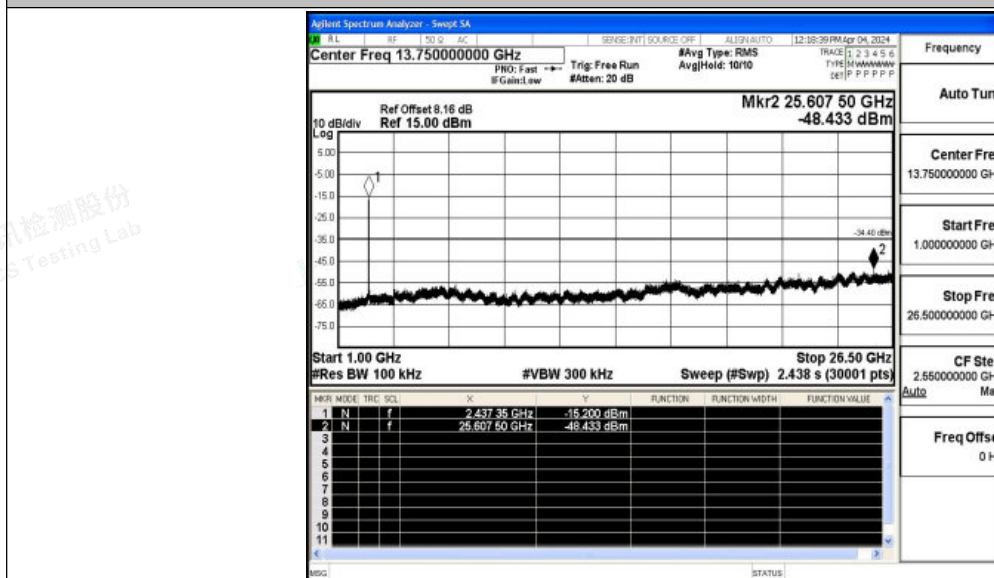
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_30~1000

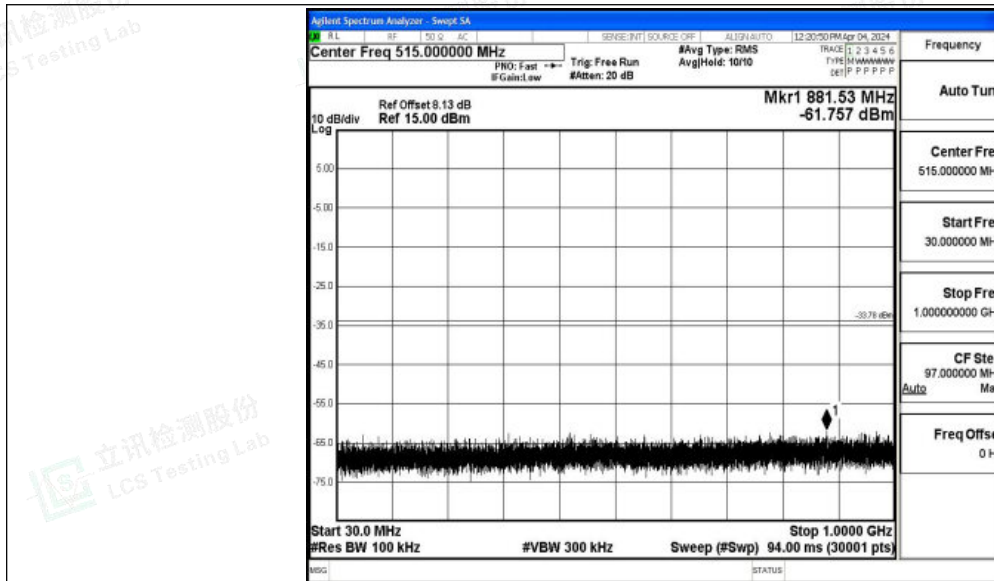


Shenzhen LCS Compliance Testing Laboratory Ltd.

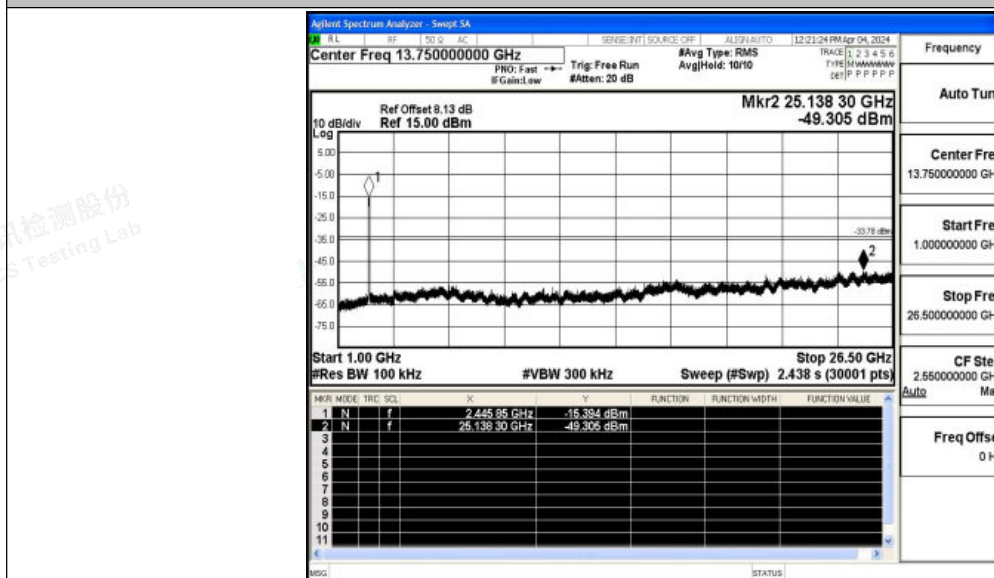
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_30~1000

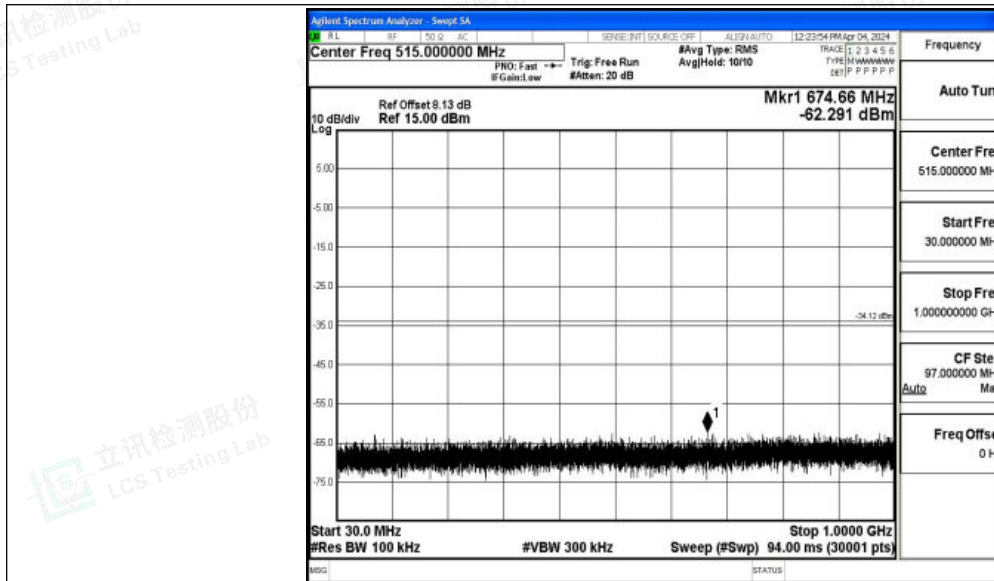


Shenzhen LCS Compliance Testing Laboratory Ltd.

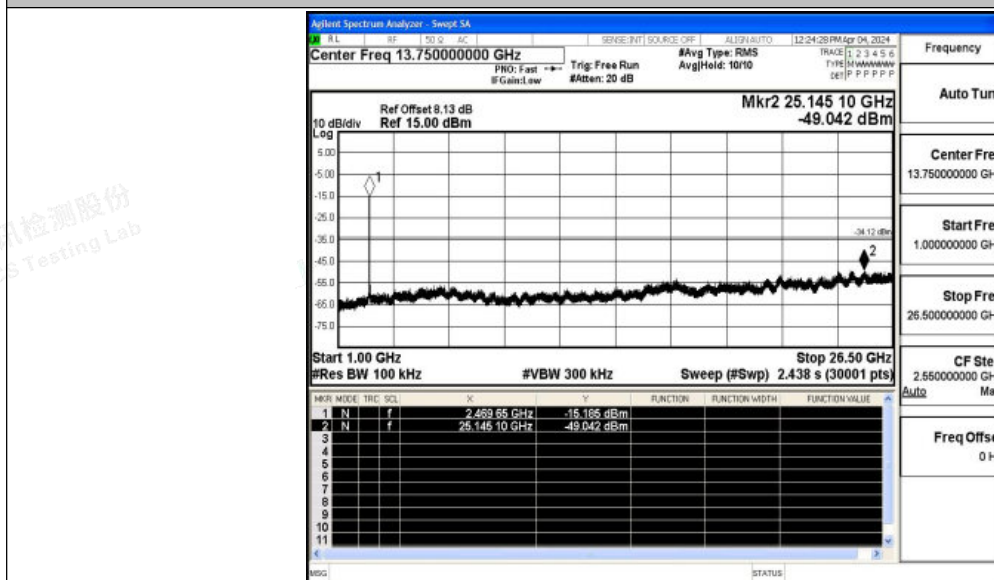
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2452_1000~26500



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A.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.39	8.42	99.64	---	---
		2437	8.39	8.42	99.64	---	---
		2462	8.38	8.42	99.52	---	---
11G	Ant1	2412	1.39	1.43	97.20	---	---
		2437	1.39	1.43	97.20	---	---
		2462	1.39	1.42	97.89	---	---
11N20SISO	Ant1	2412	1.30	1.34	97.01	---	---
		2437	1.17	1.21	96.69	---	---
		2462	1.17	1.21	96.69	---	---
11N40SISO	Ant1	2422	0.58	0.62	93.55	---	---
		2437	0.58	0.62	93.55	---	---
		2452	0.59	0.62	95.16	---	---



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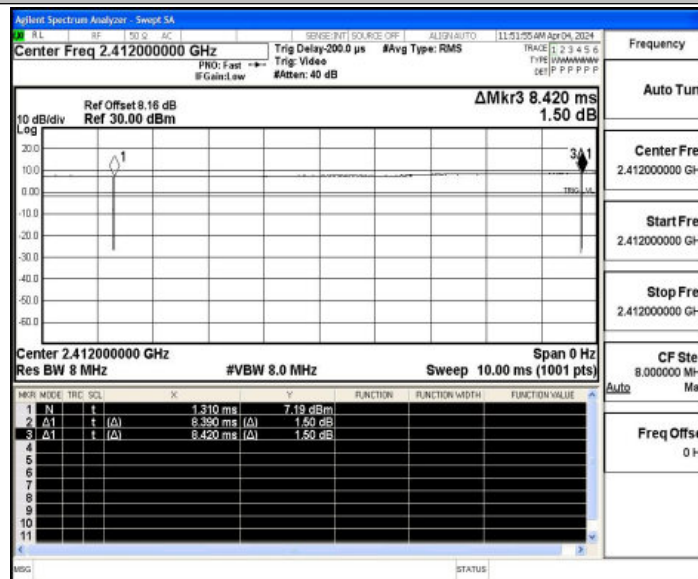
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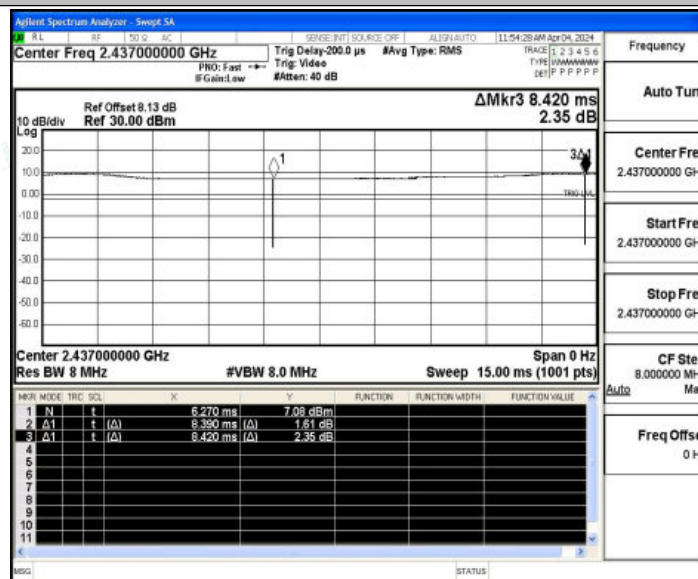


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

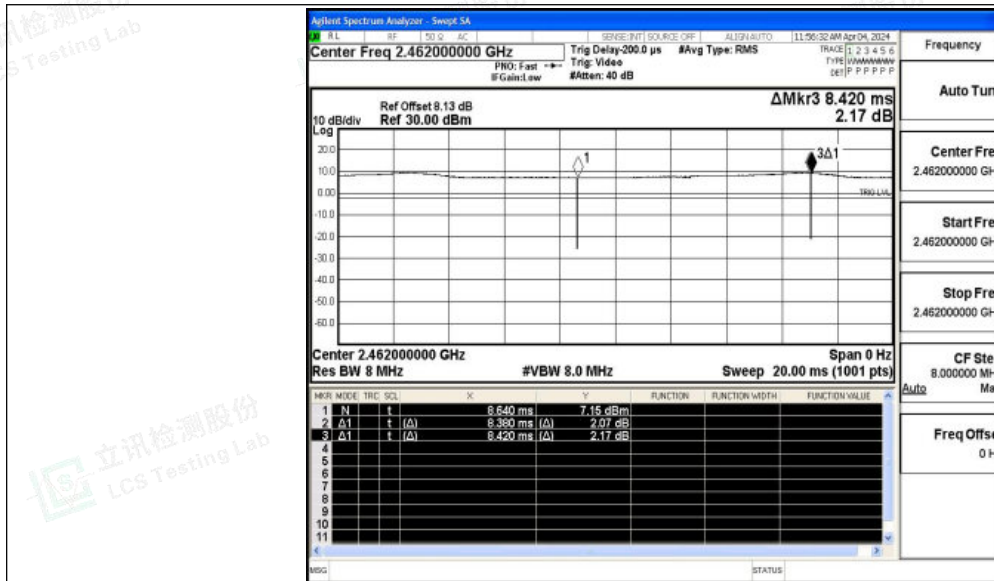


Shenzhen LCS Compliance Testing Laboratory Ltd.

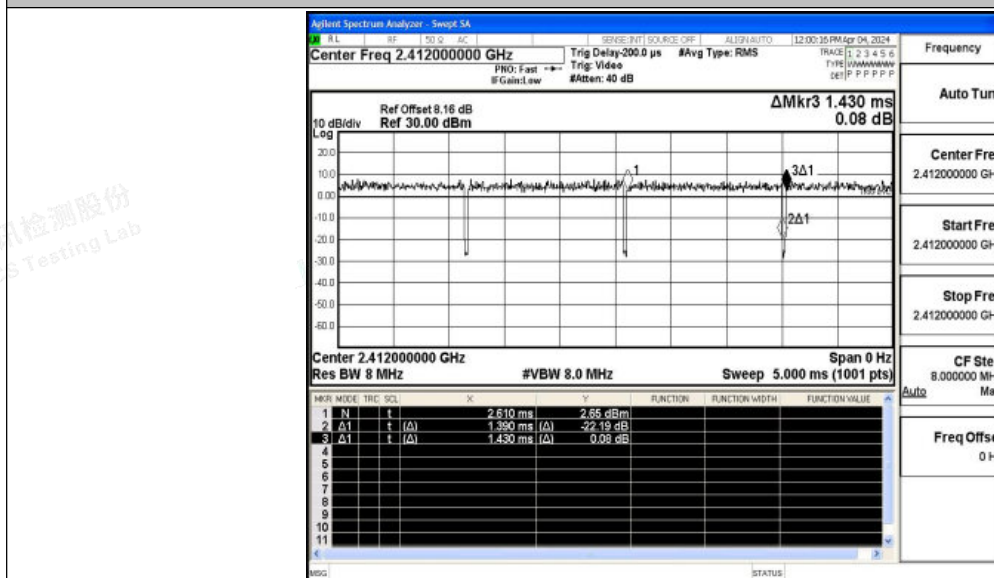
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412



11G_Ant1_2437

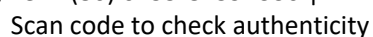
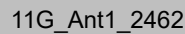


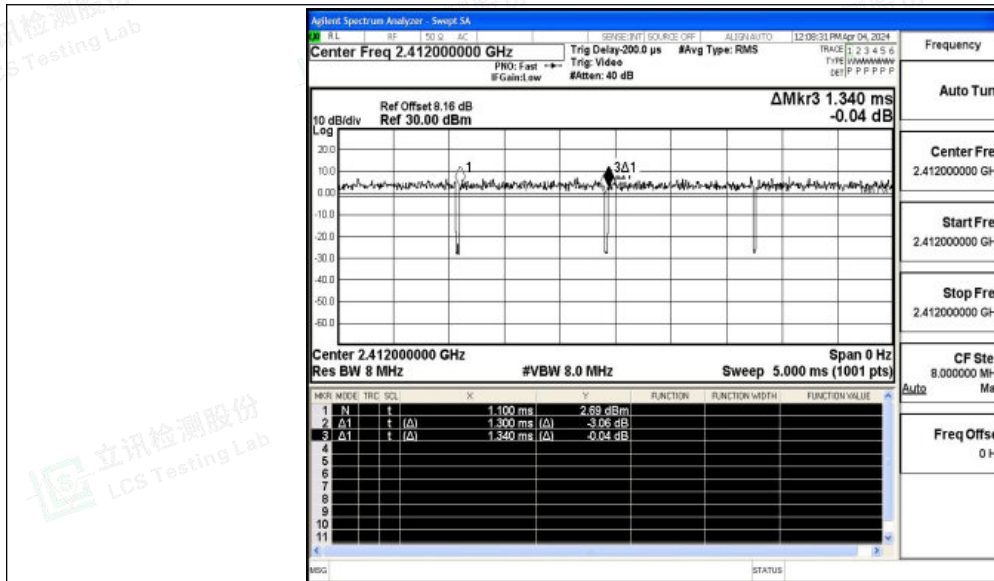
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

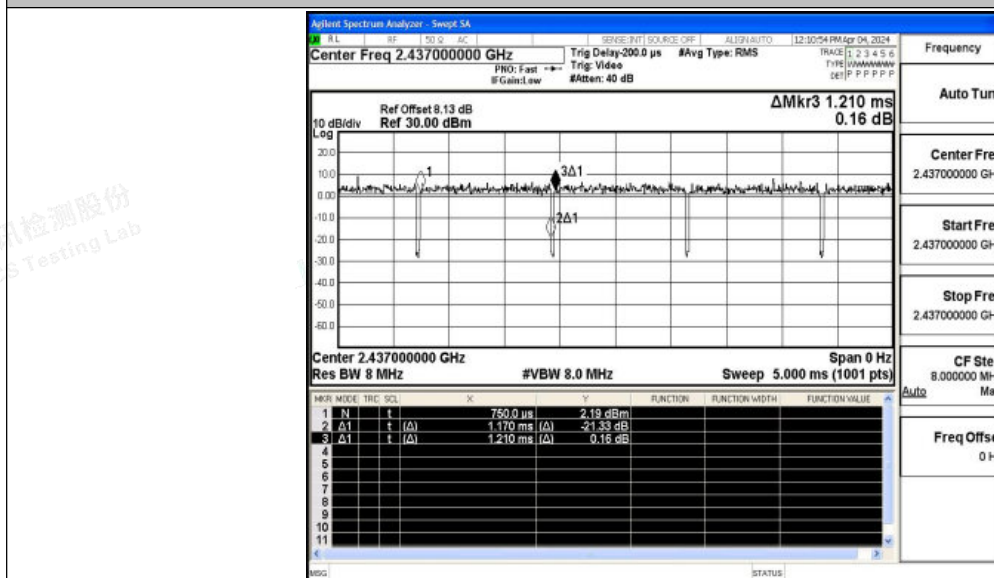
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

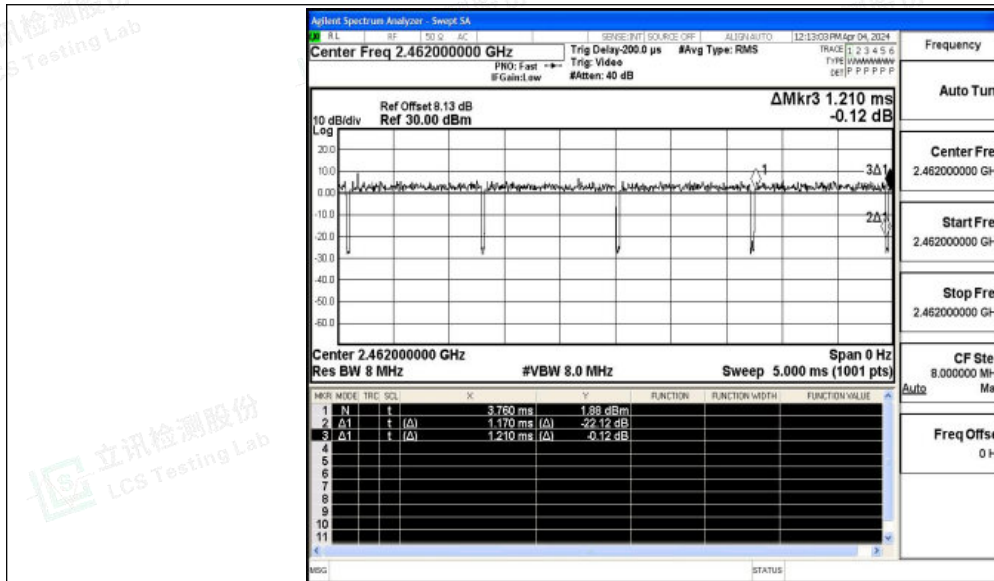


Shenzhen LCS Compliance Testing Laboratory Ltd.

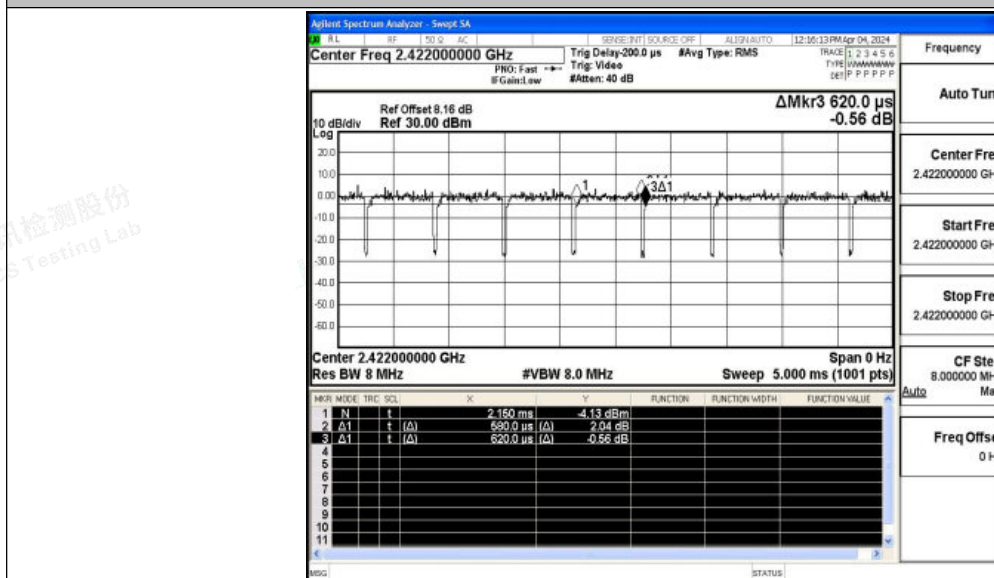
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40ISO_Ant1_2422



11N40ISO_Ant1_2437

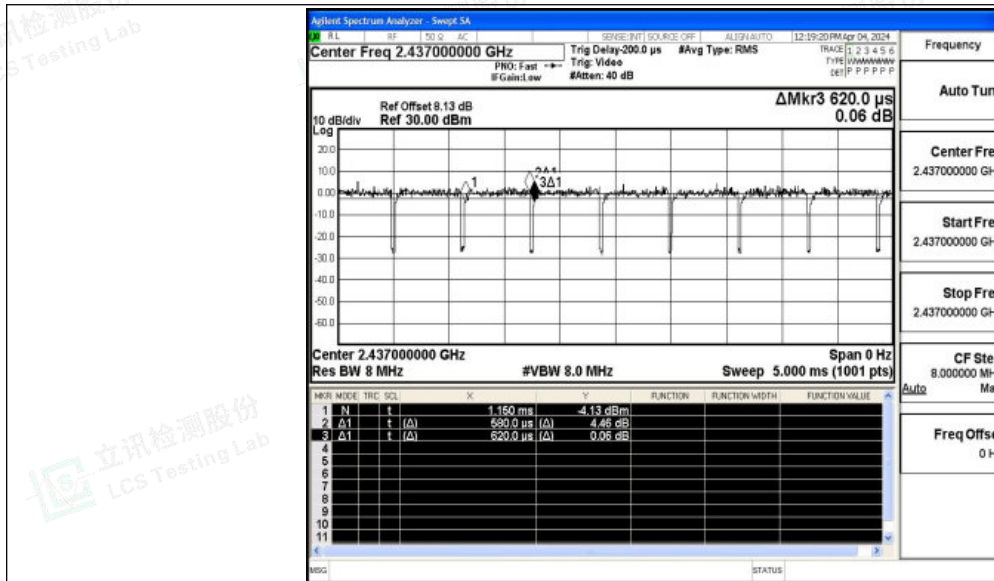


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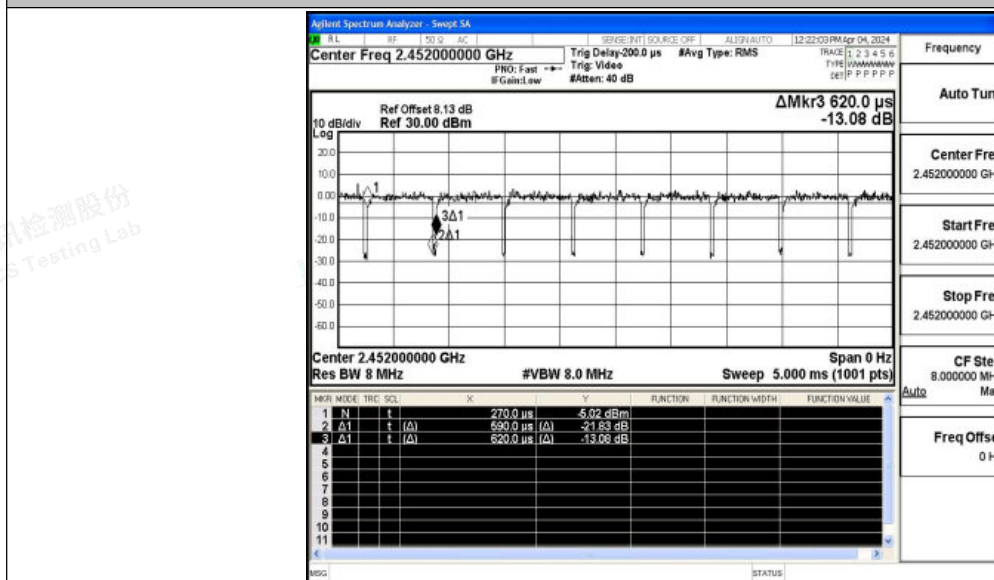
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40ISO_Ant1_2452



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A.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	-50.15	≤-41.20	45.05	≤54	PASS
				AV	2380.860	-48.93	≤-41.20	46.27	≤54	PASS
				AV	2390.000	-50.66	≤-41.20	44.54	≤54	PASS
				Peak	2310.000	-41.21	≤-21.20	53.99	≤74	PASS
				Peak	2327.040	-39.29	≤-21.20	55.91	≤74	PASS
				Peak	2390.000	-41.67	≤-21.20	53.53	≤74	PASS
		High	2462	AV	2483.500	-49.48	≤-41.20	45.72	≤54	PASS
				AV	2499.400	-49.14	≤-41.20	46.06	≤54	PASS
				AV	2500.000	-49.43	≤-41.20	45.77	≤54	PASS
				Peak	2483.500	-41.93	≤-21.20	53.27	≤74	PASS
				Peak	2495.220	-38.38	≤-21.20	56.82	≤74	PASS
				Peak	2500.000	-41.1	≤-21.20	54.10	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-50.64	≤-41.20	44.56	≤54	PASS
				AV	2378.520	-48.71	≤-41.20	46.49	≤54	PASS
				AV	2390.000	-49.68	≤-41.20	45.52	≤54	PASS
				Peak	2310.000	-41.82	≤-21.20	53.38	≤74	PASS
				Peak	2372.020	-38.84	≤-21.20	56.36	≤74	PASS
				Peak	2390.000	-40.9	≤-21.20	54.30	≤74	PASS
		High	2462	AV	2483.500	-49.17	≤-41.20	46.03	≤54	PASS
				AV	2499.400	-48.67	≤-41.20	46.53	≤54	PASS
				AV	2500.000	-49.54	≤-41.20	45.66	≤54	PASS
				Peak	2483.500	-41.66	≤-21.20	53.54	≤74	PASS
				Peak	2498.190	-38.47	≤-21.20	56.73	≤74	PASS
				Peak	2500.000	-41.4	≤-21.20	53.80	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-50.03	≤-41.20	45.17	≤54	PASS
				AV	2387.620	-48.71	≤-41.20	46.49	≤54	PASS
				AV	2390.000	-49.85	≤-41.20	45.35	≤54	PASS
				Peak	2310.000	-39.94	≤-21.20	55.26	≤74	PASS
				Peak	2343.550	-39.17	≤-21.20	56.03	≤74	PASS
				Peak	2390.000	-41.98	≤-21.20	53.22	≤74	PASS
		High	2462	AV	2483.500	-49.11	≤-41.20	46.09	≤54	PASS
				AV	2494.450	-48.73	≤-41.20	46.47	≤54	PASS
				AV	2500.000	-49.61	≤-41.20	45.59	≤54	PASS
				Peak	2483.500	-41.53	≤-21.20	53.67	≤74	PASS
				Peak	2494.780	-38.99	≤-21.20	56.21	≤74	PASS



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11N40SIS O	Ant1	Low	2422	Peak	2500.000	-40.48	≤ -21.20	54.72	≤ 74	PASS
				AV	2310.000	-49.96	≤ -41.20	45.24	≤ 54	PASS
				AV	2385.020	-48.23	≤ -41.20	46.97	≤ 54	PASS
				AV	2390.000	-49.64	≤ -41.20	45.56	≤ 54	PASS
				Peak	2310.000	-41.47	≤ -21.20	53.73	≤ 74	PASS
				Peak	2363.570	-38.65	≤ -21.20	56.55	≤ 74	PASS
		High	2452	Peak	2390.000	-41.33	≤ -21.20	53.87	≤ 74	PASS
				AV	2483.500	-49.24	≤ -41.20	45.96	≤ 54	PASS
				AV	2493.020	-48.63	≤ -41.20	46.57	≤ 54	PASS
				AV	2500.000	-49.53	≤ -41.20	45.67	≤ 54	PASS
				Peak	2483.500	-41.09	≤ -21.20	54.11	≤ 74	PASS
				Peak	2492.030	-38.45	≤ -21.20	56.75	≤ 74	PASS
				Peak	2500.000	-41.39	≤ -21.20	53.81	≤ 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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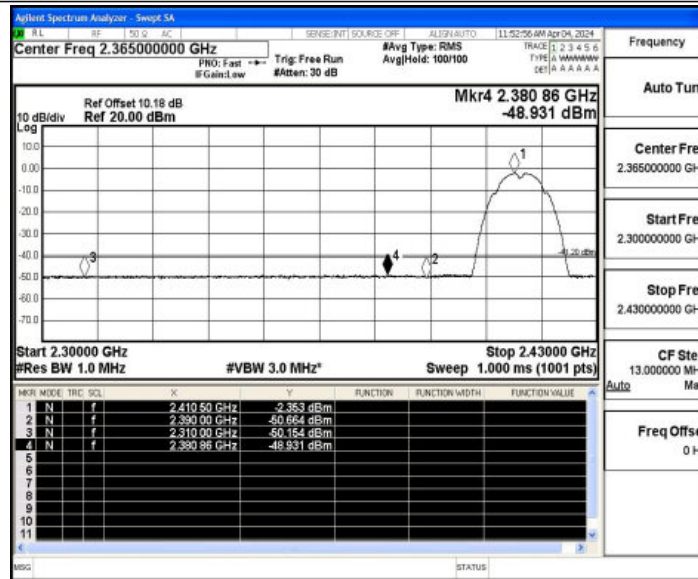
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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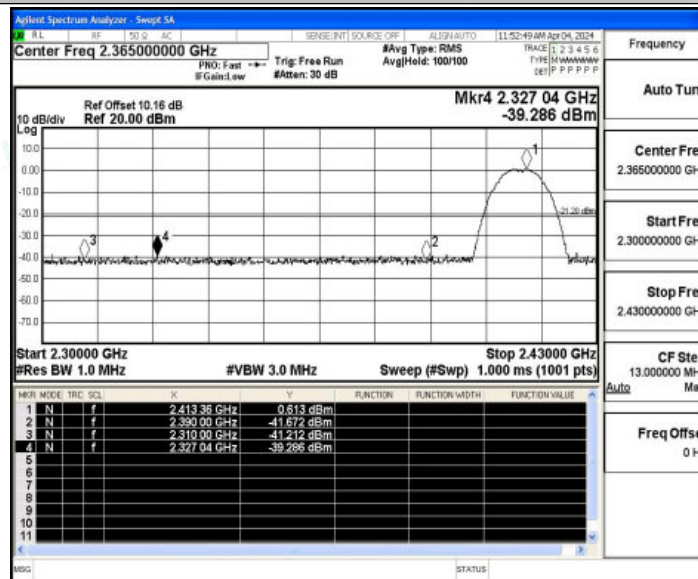


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV

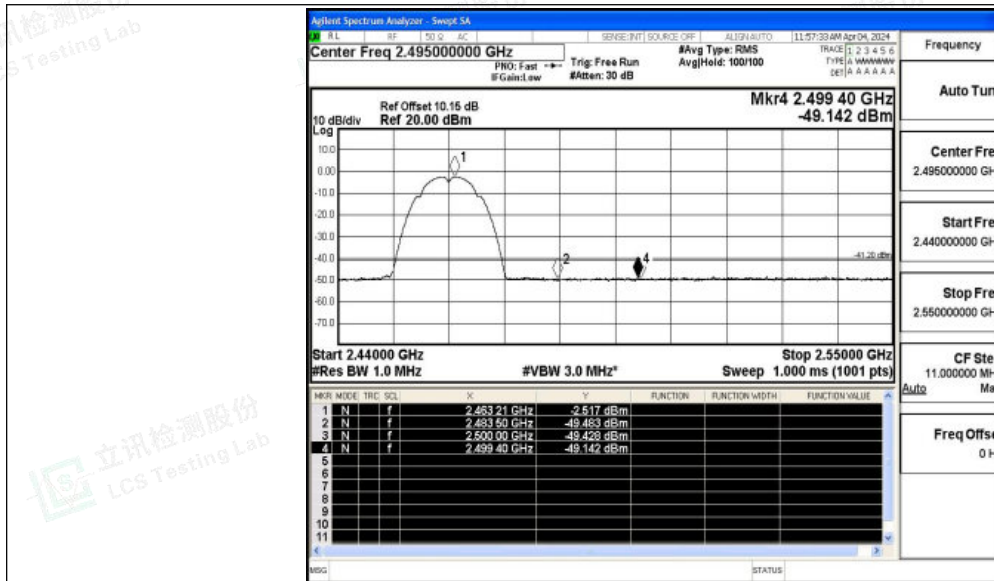


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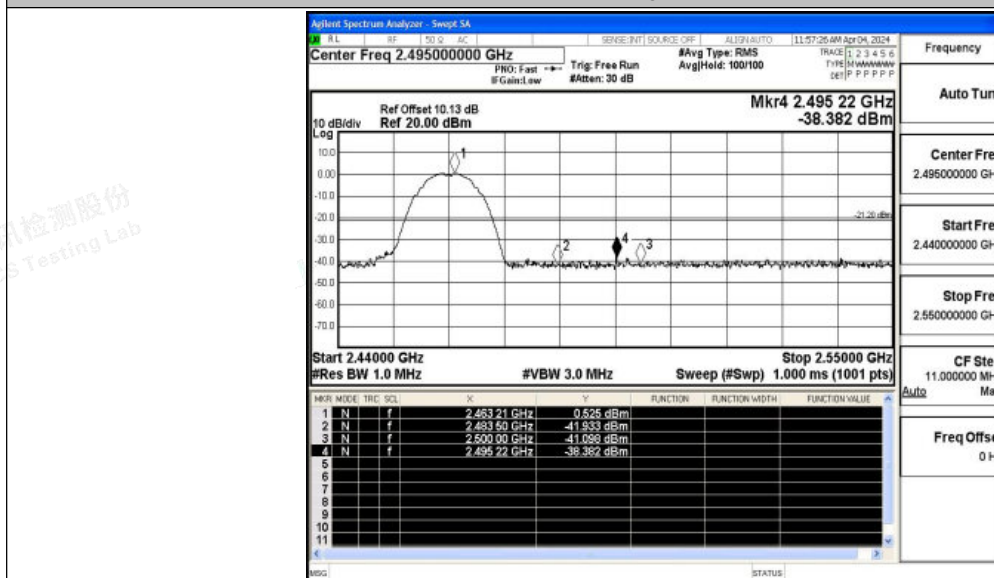
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV

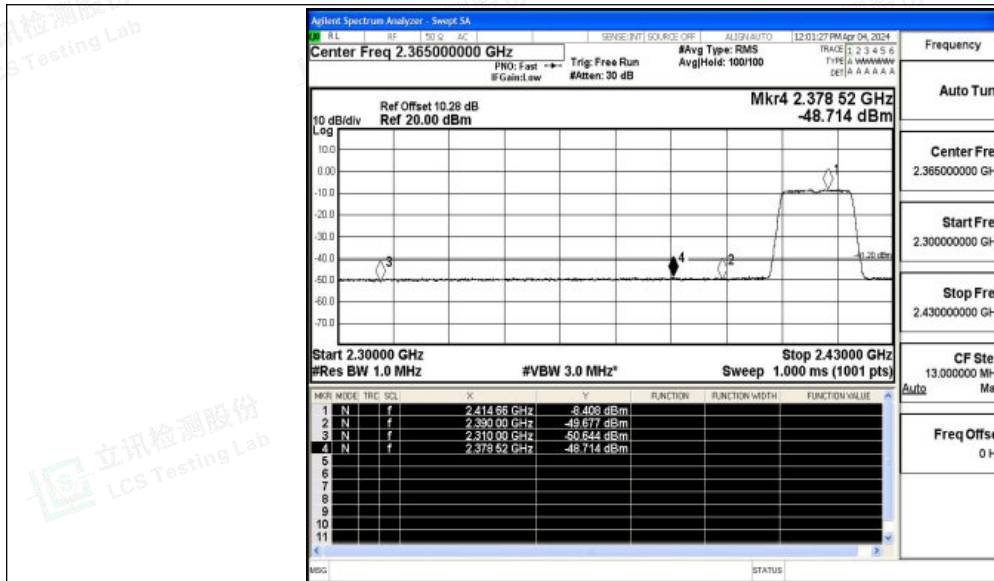


Shenzhen LCS Compliance Testing Laboratory Ltd.

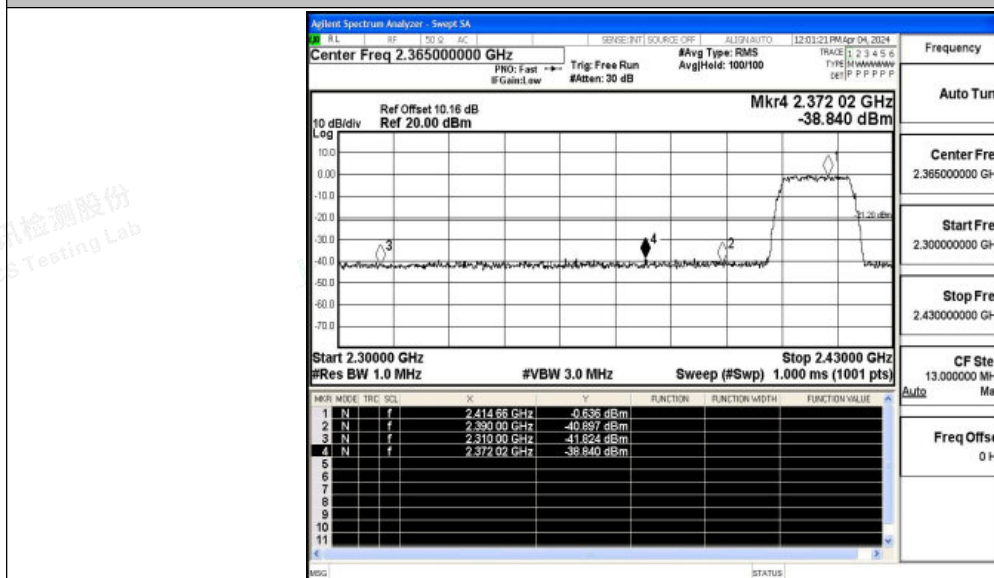
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV

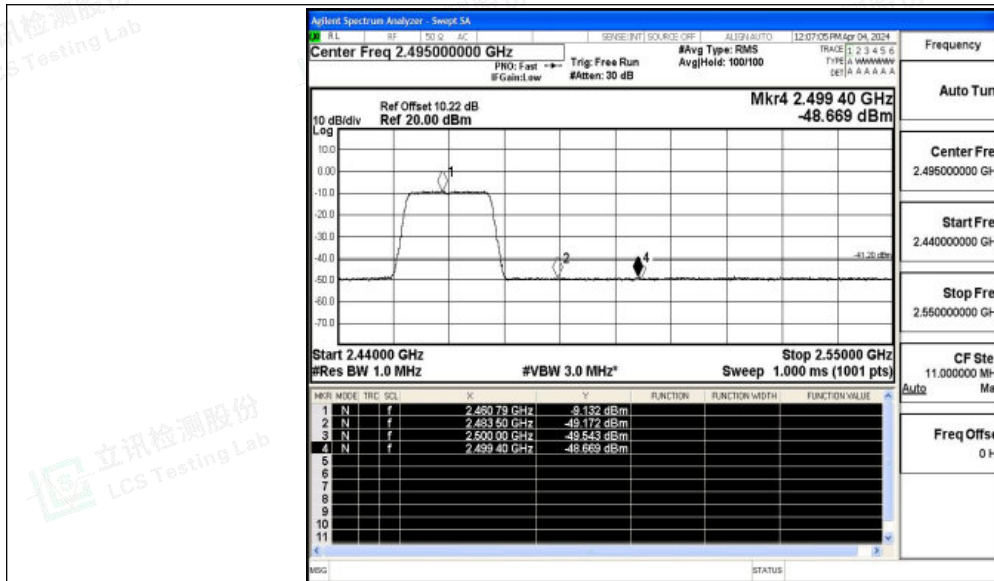


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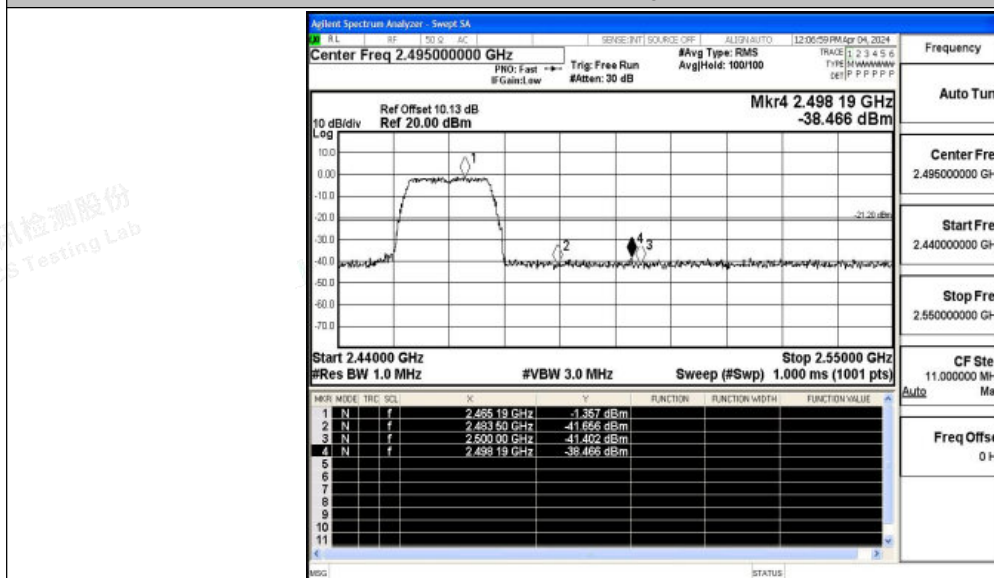
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

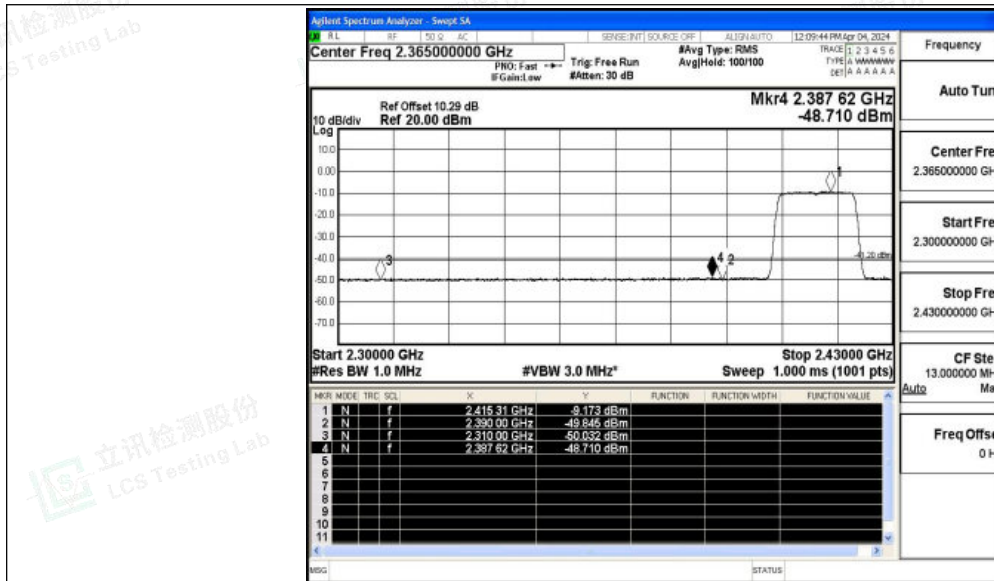


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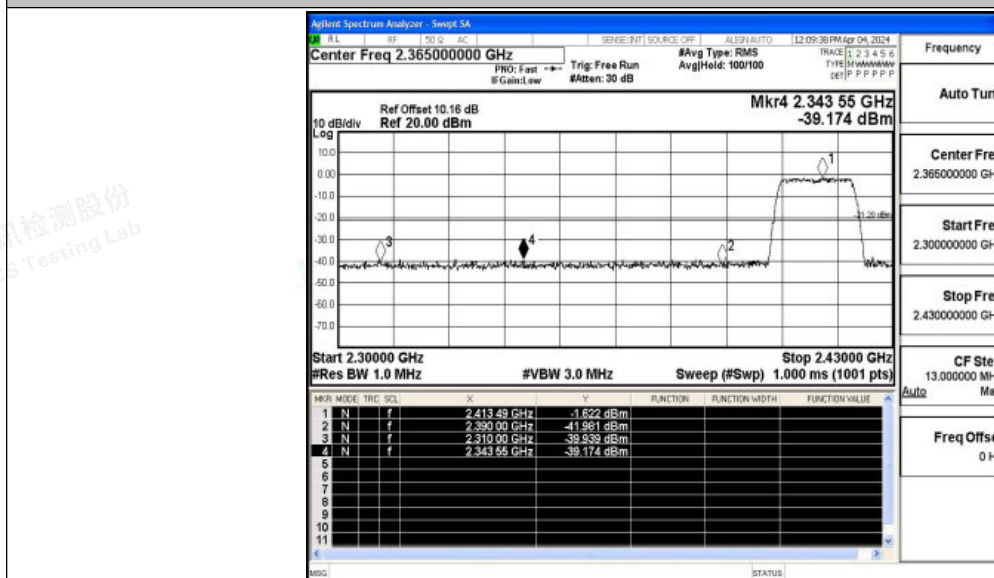
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV

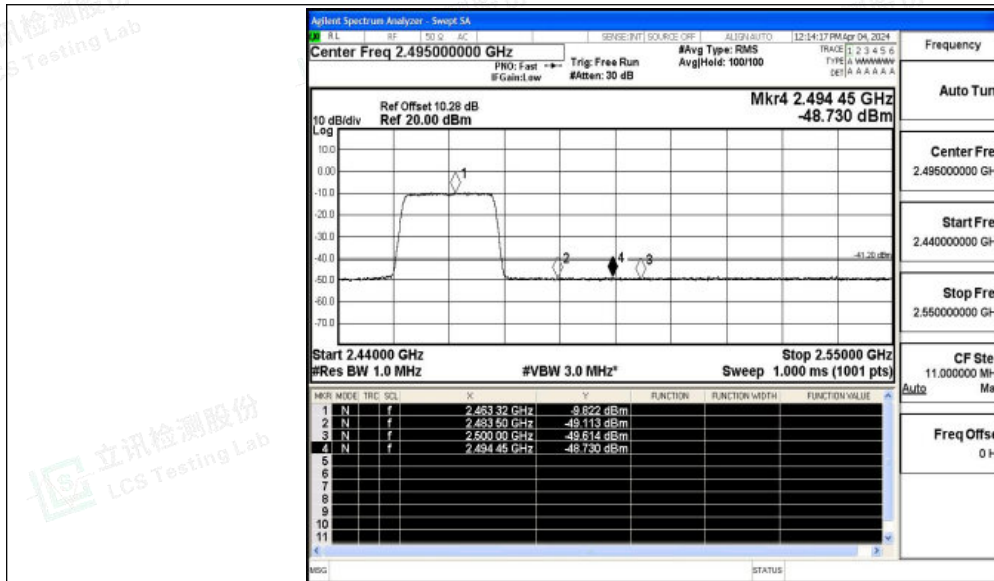


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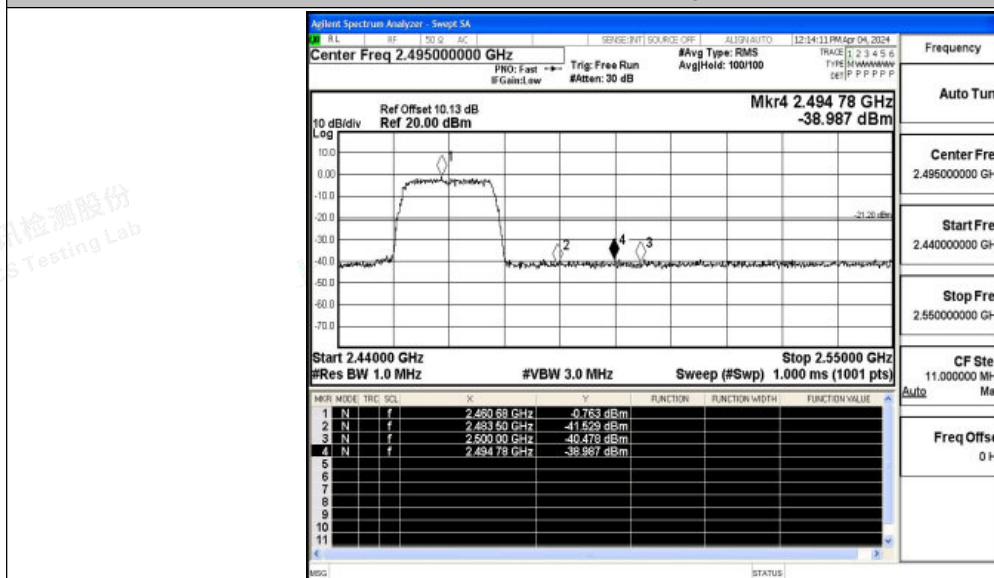
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11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV

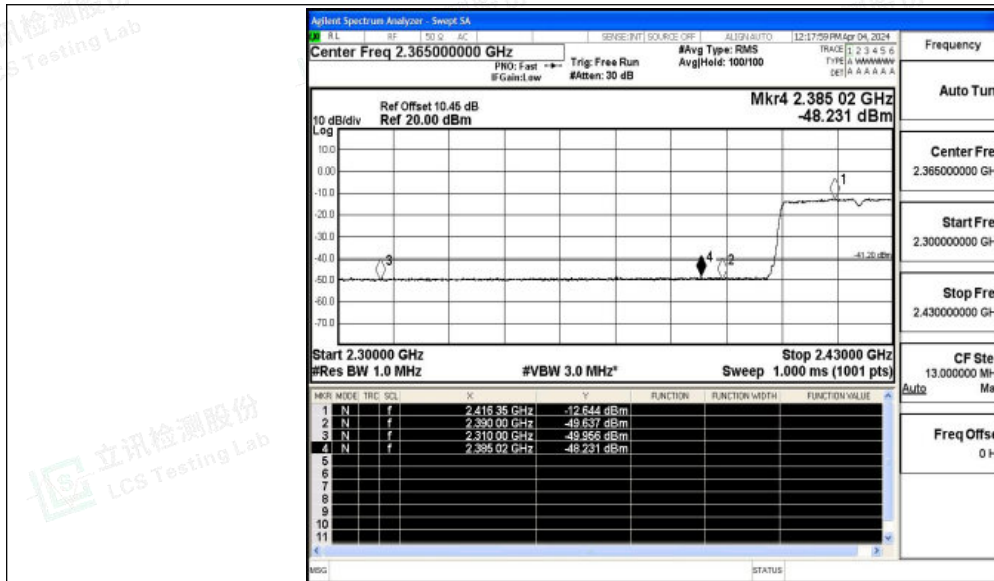


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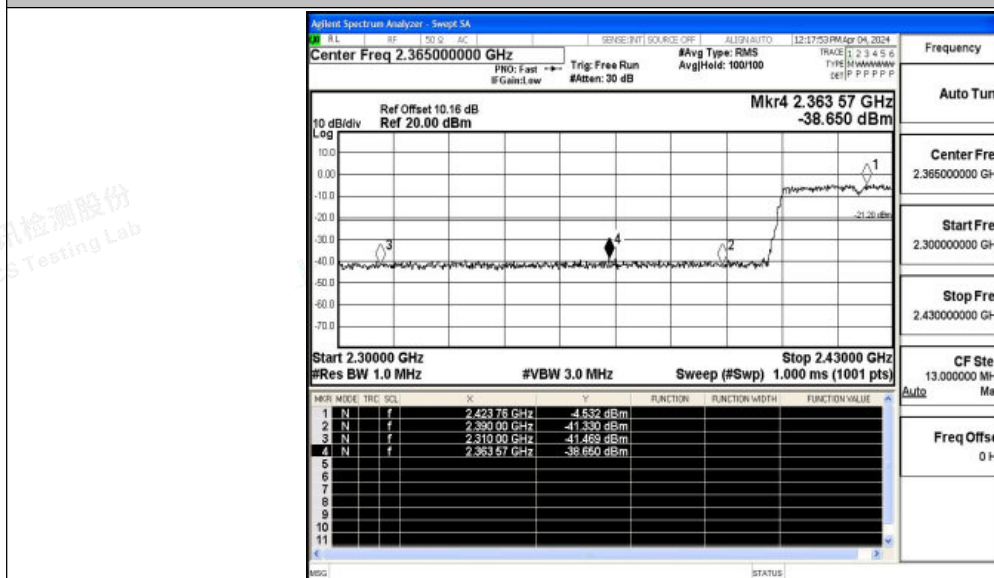
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

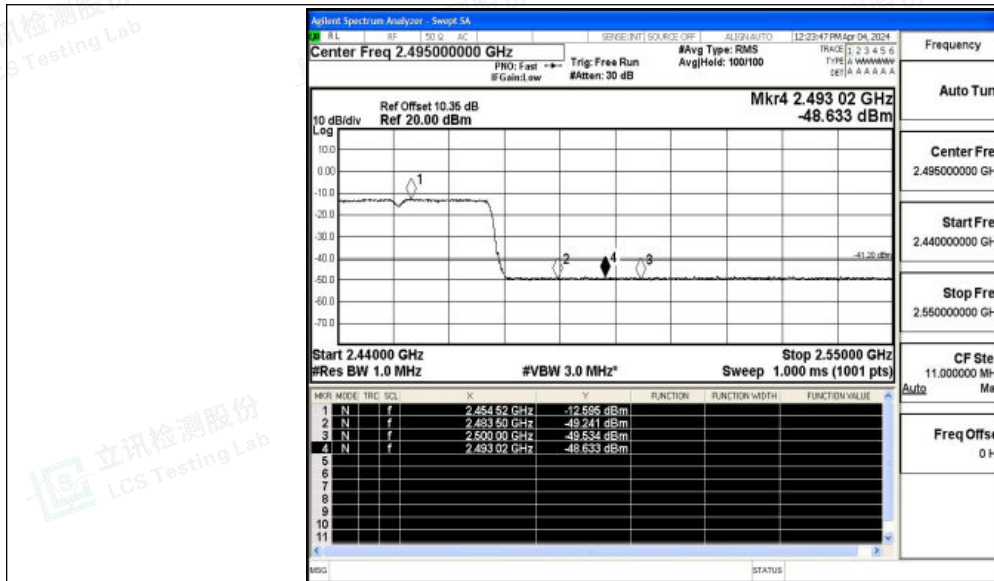


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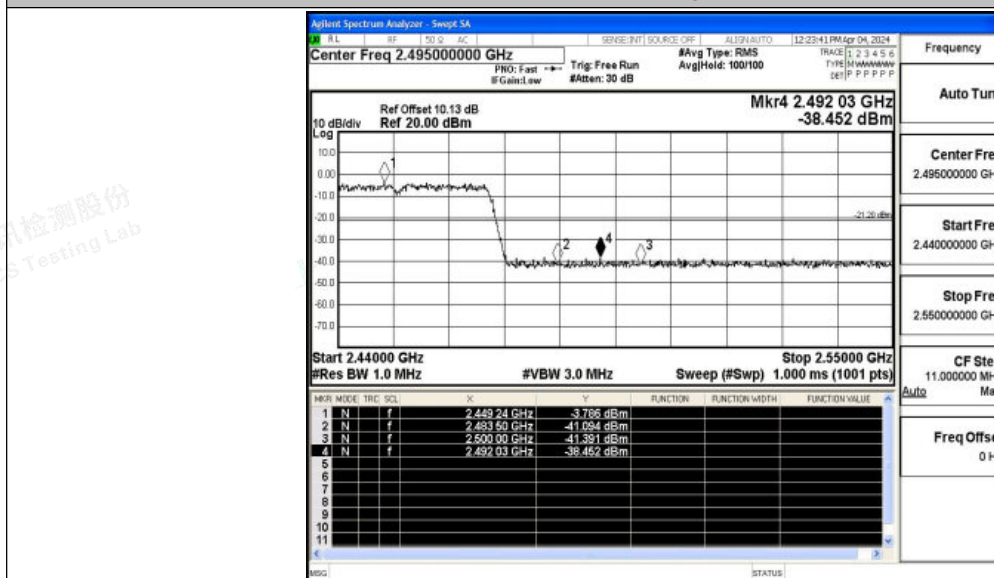
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_High_2452_Peak



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