



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Smart visual ear-clean Rod

Test Model: X0

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jack Cheng
Supervised by:	Li huan



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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	9.080	2407.440	2416.520	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	9.080	2457.440	2466.520	0.5	PASS
11G	Ant1	2412	11.280	2405.720	2417.000	0.5	PASS
		2437	11.320	2430.720	2442.040	0.5	PASS
		2462	11.320	2455.720	2467.040	0.5	PASS
11N20SISO	Ant1	2412	11.320	2405.720	2417.040	0.5	PASS
		2437	11.320	2430.720	2442.040	0.5	PASS
		2462	11.320	2455.720	2467.040	0.5	PASS
11N40SISO	Ant1	2422	31.200	2405.760	2436.960	0.5	PASS
		2437	30.080	2420.680	2450.760	0.5	PASS
		2452	31.280	2434.480	2465.760	0.5	PASS



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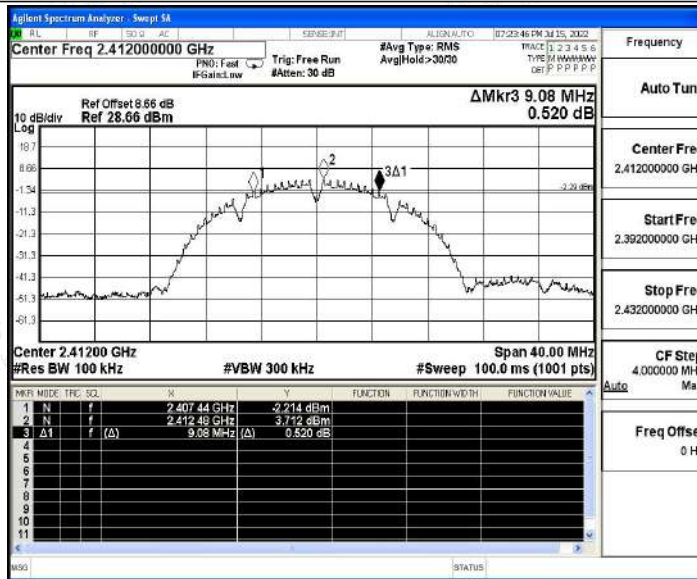
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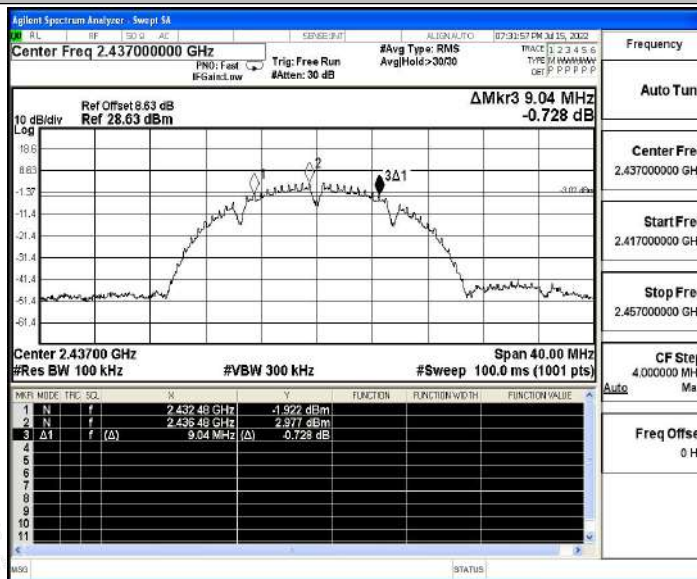


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

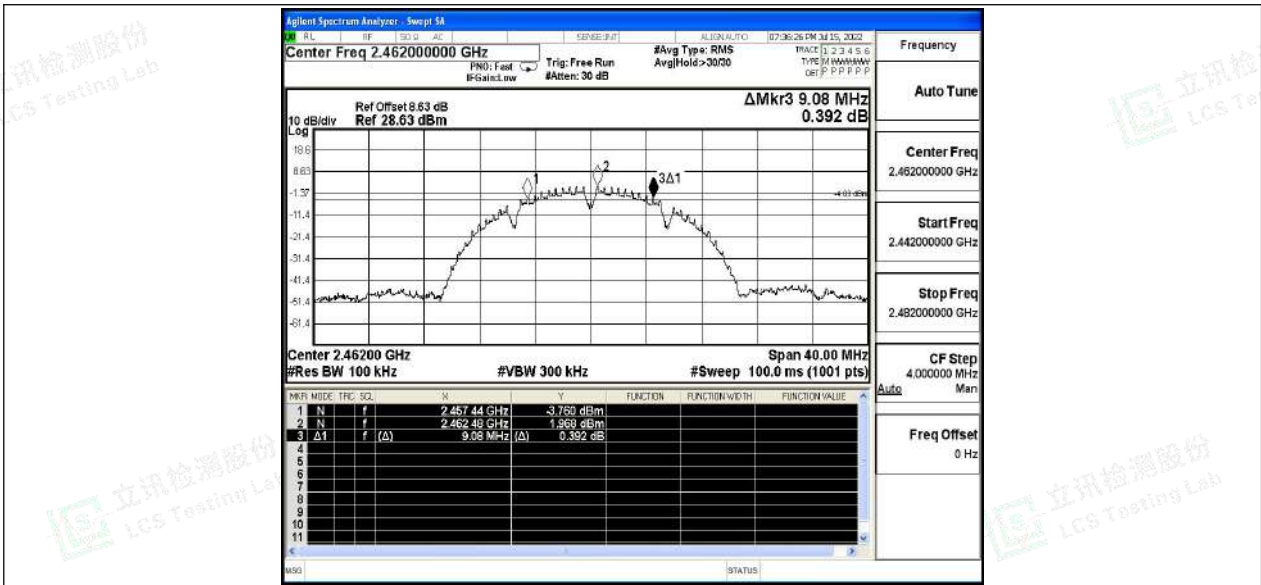


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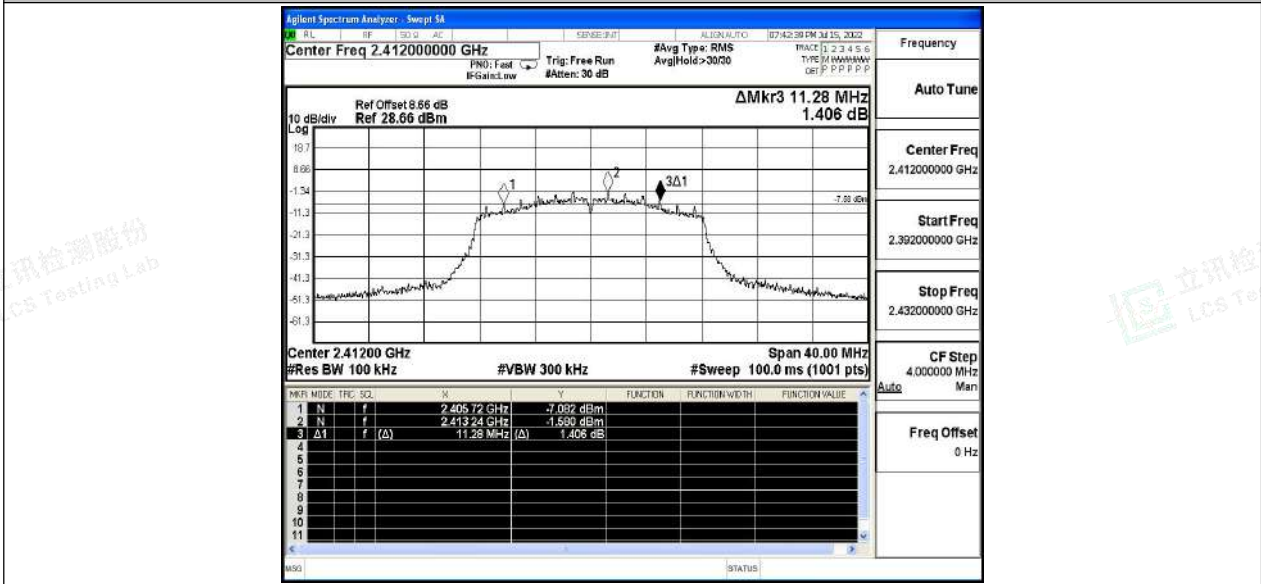
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11G_Ant1_2412



11G_Ant1_2437

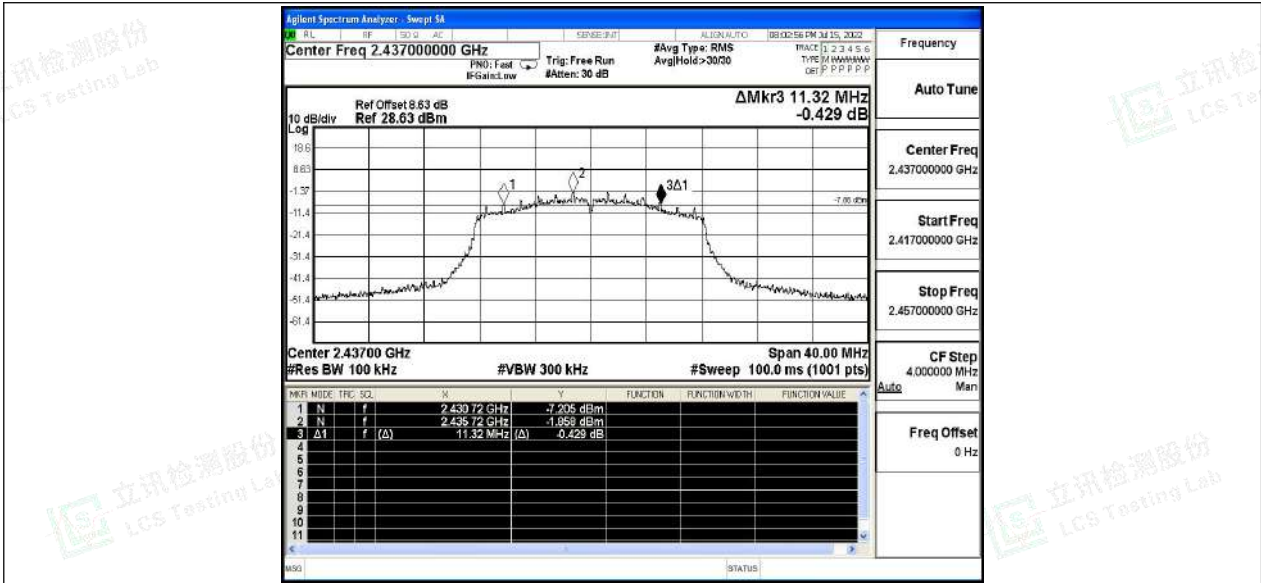


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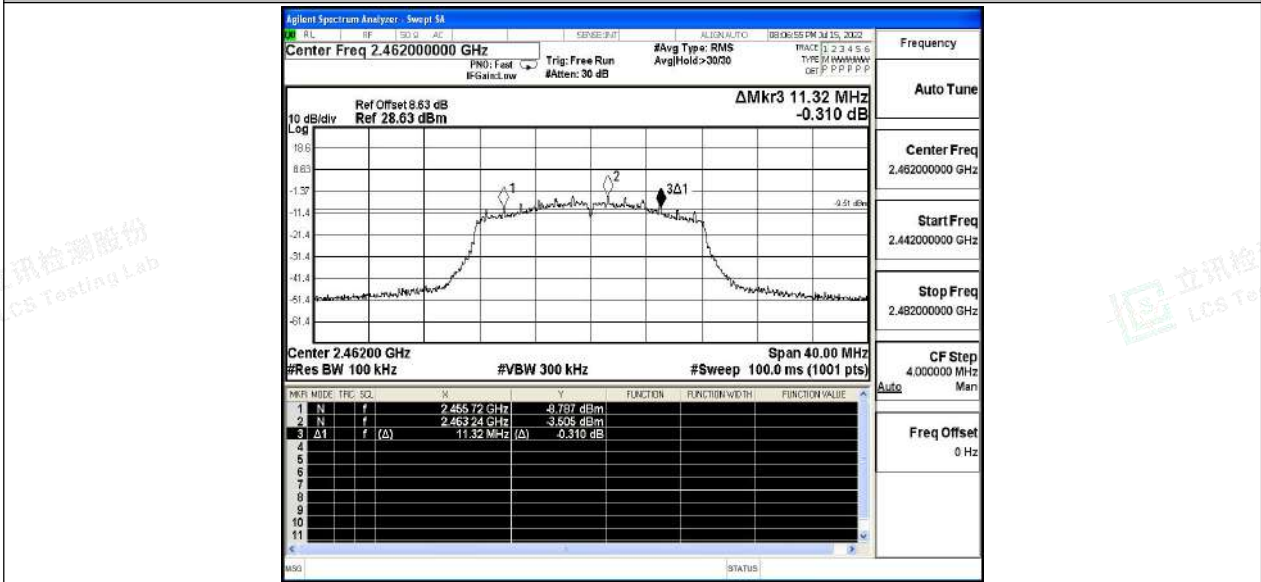
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11G_Ant1_2462



11N20SISO_Ant1_2412

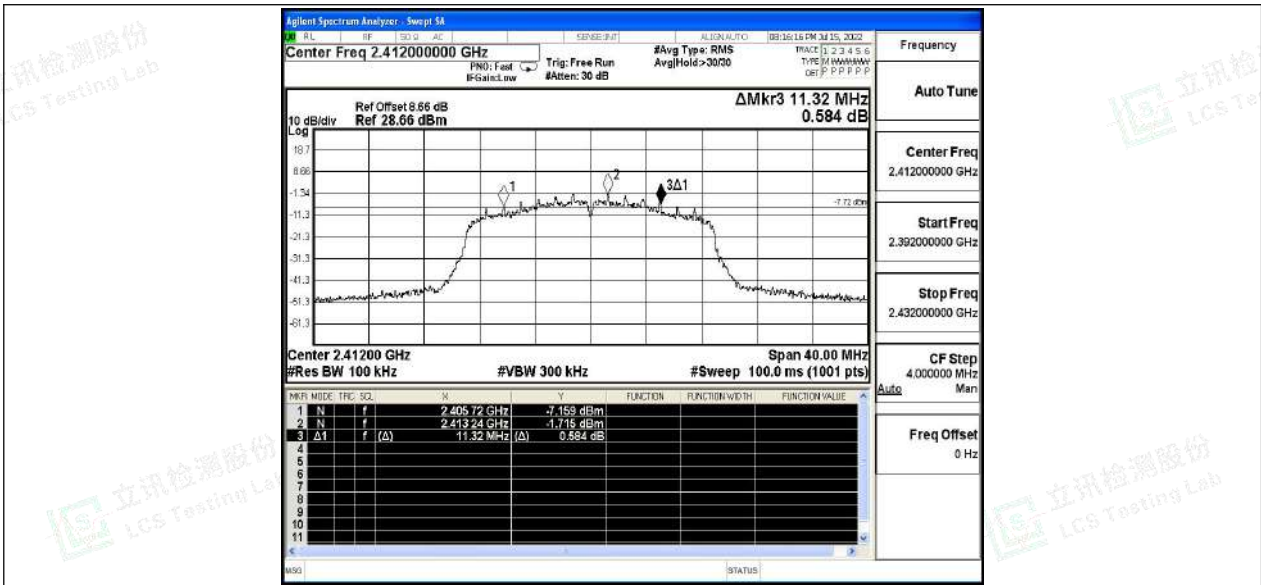


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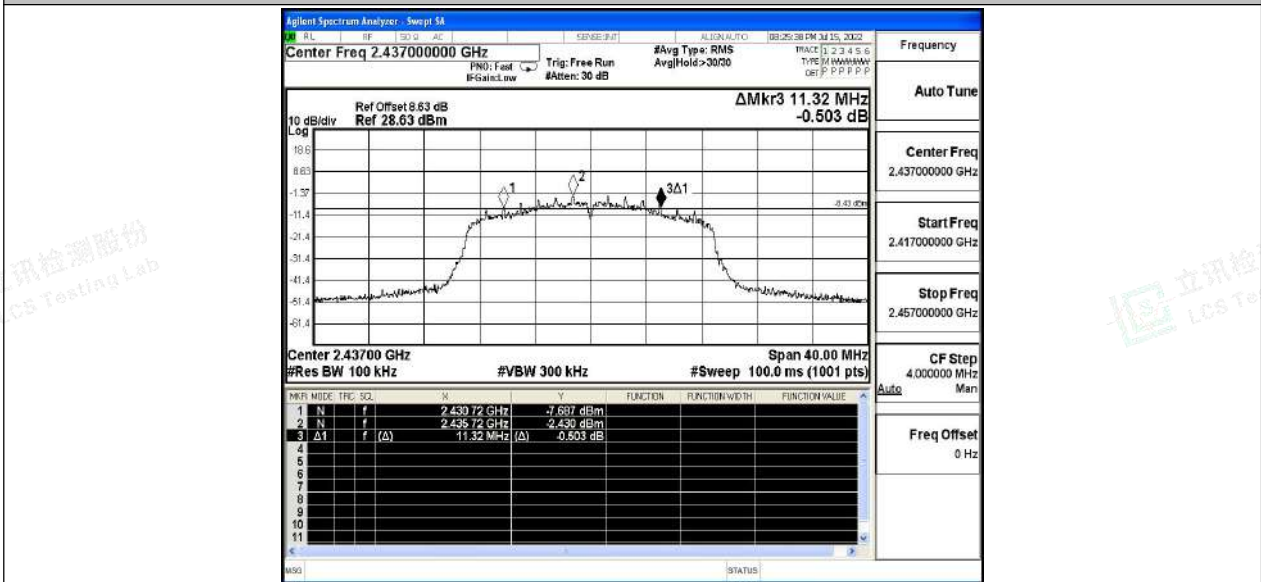
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

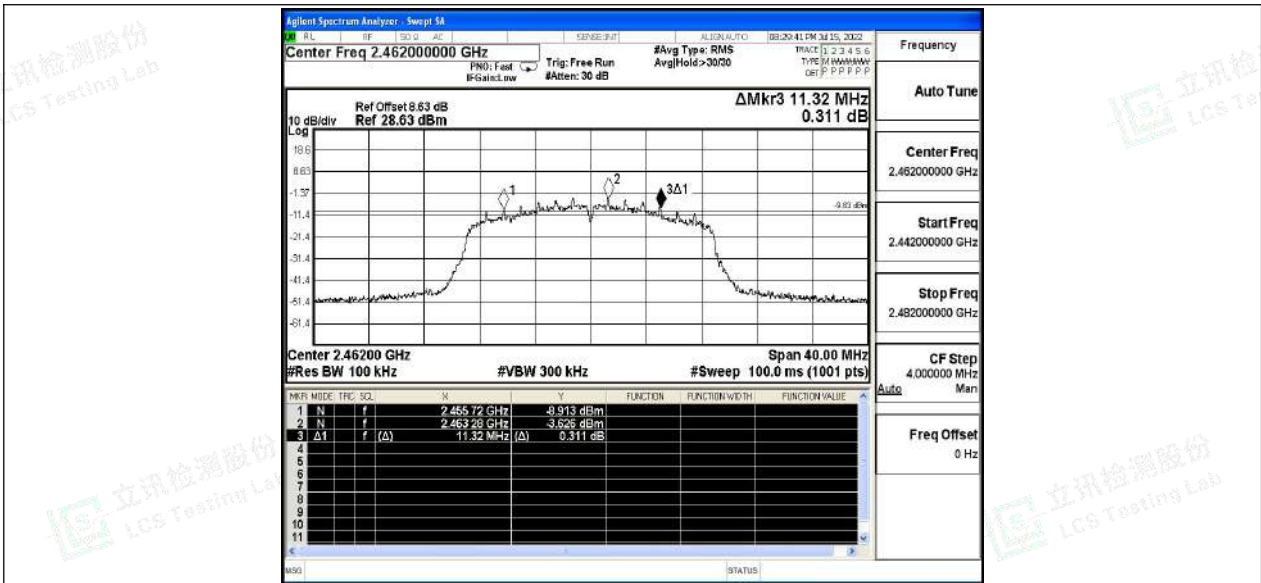


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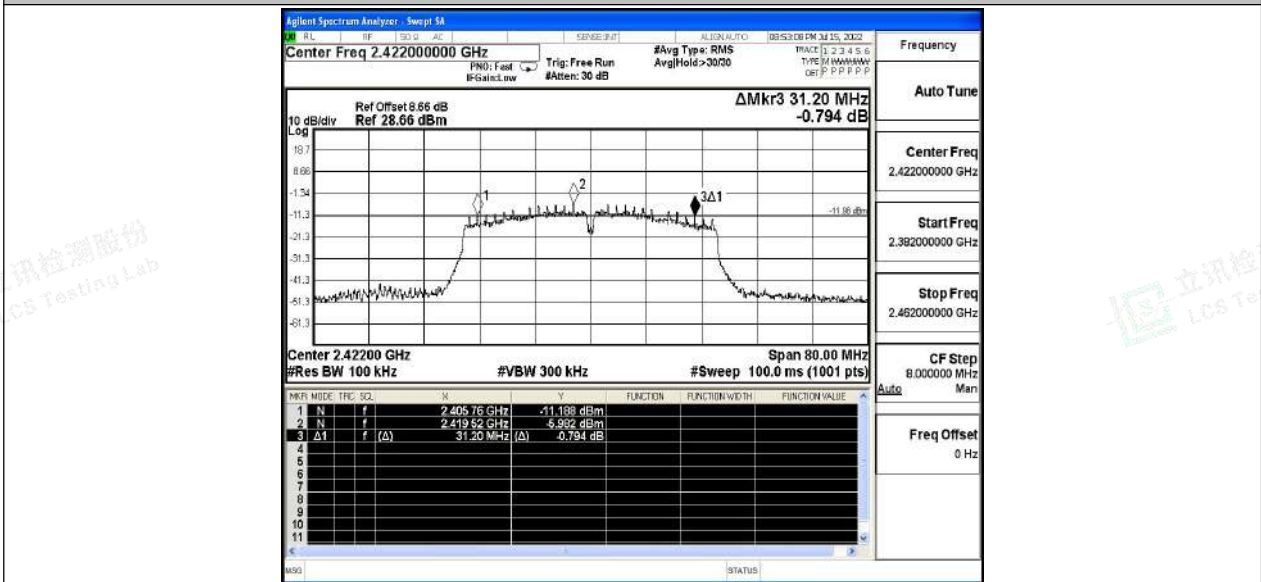
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

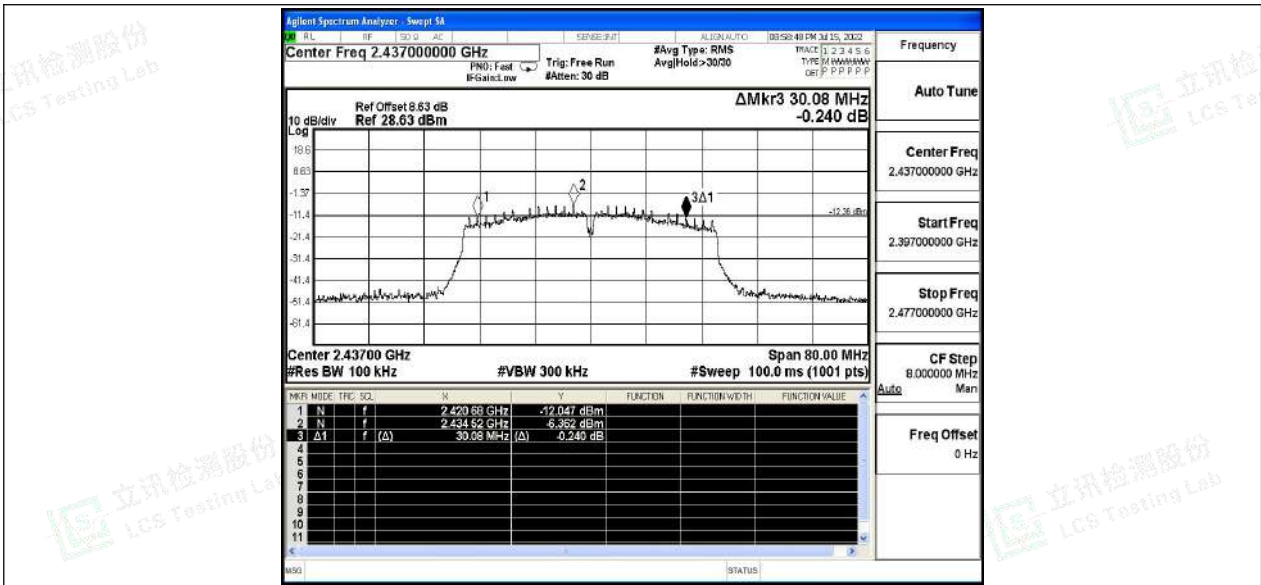


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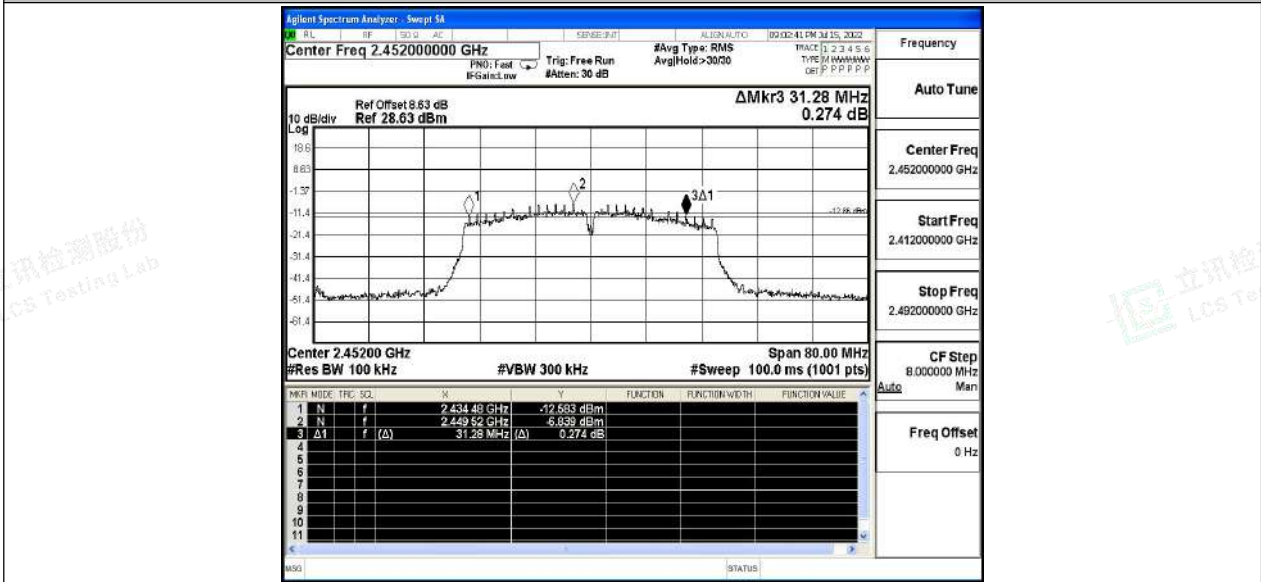
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11N40SISO_Ant1_2452



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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	7.79	≤30.00	PASS
		2437	7.15	≤30.00	PASS
		2462	6.50	≤30.00	PASS
11G	Ant1	2412	7.47	≤30.00	PASS
		2437	7.10	≤30.00	PASS
		2462	6.52	≤30.00	PASS
11N20SISO	Ant1	2412	6.94	≤30.00	PASS
		2437	6.67	≤30.00	PASS
		2462	6.03	≤30.00	PASS
11N40SISO	Ant1	2422	7.37	≤30.00	PASS
		2437	7.08	≤30.00	PASS
		2452	6.79	≤30.00	PASS



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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.89	≤8.00	PASS
		2437	-11.79	≤8.00	PASS
		2462	-12.28	≤8.00	PASS
11G	Ant1	2412	-16.54	≤8.00	PASS
		2437	-17.29	≤8.00	PASS
		2462	-18.3	≤8.00	PASS
11N20SISO	Ant1	2412	-16.9	≤8.00	PASS
		2437	-17.03	≤8.00	PASS
		2462	-18.37	≤8.00	PASS
11N40SISO	Ant1	2422	-20.42	≤8.00	PASS
		2437	-20.74	≤8.00	PASS
		2452	-21.49	≤8.00	PASS



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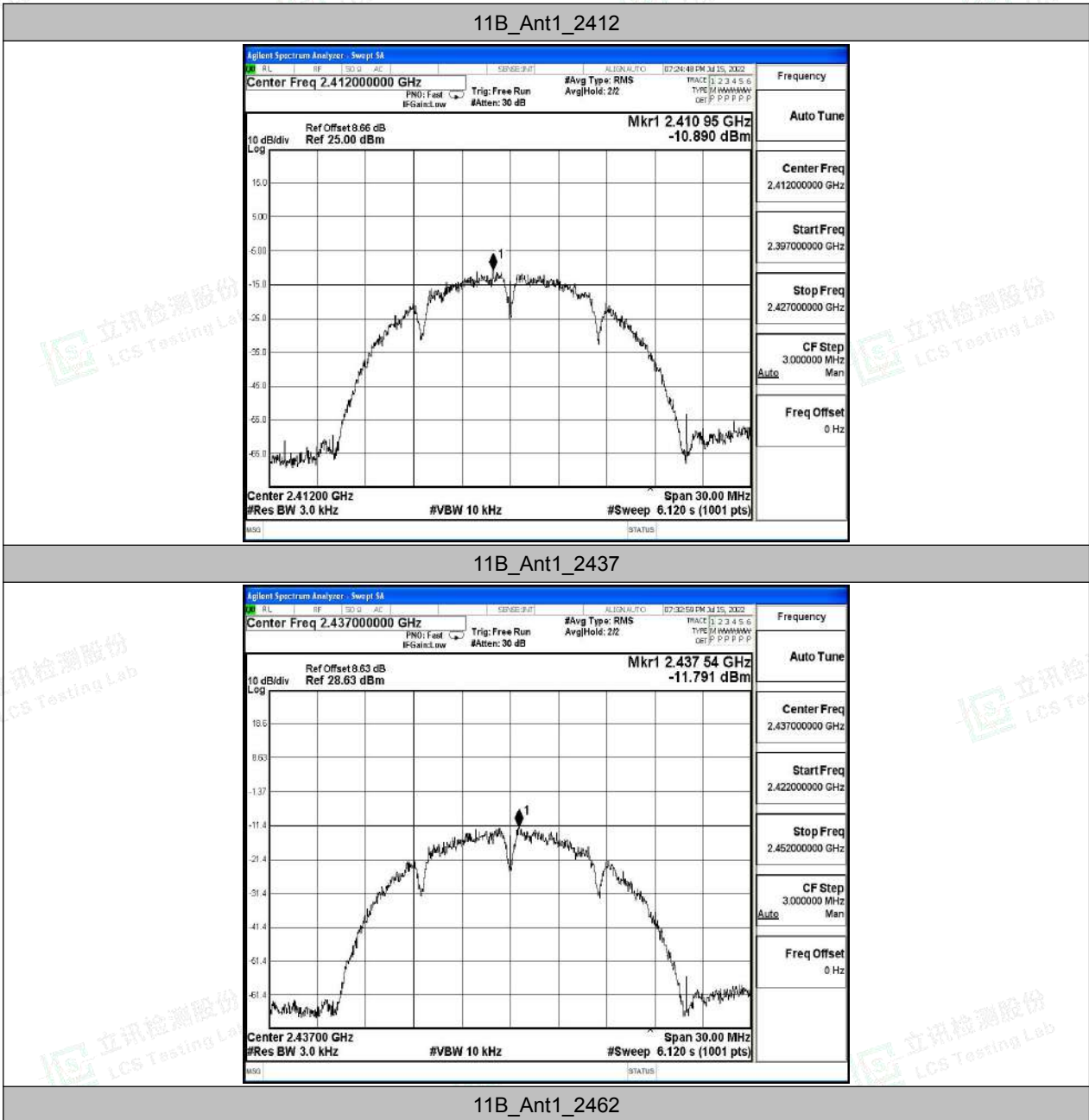
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Test Graphs

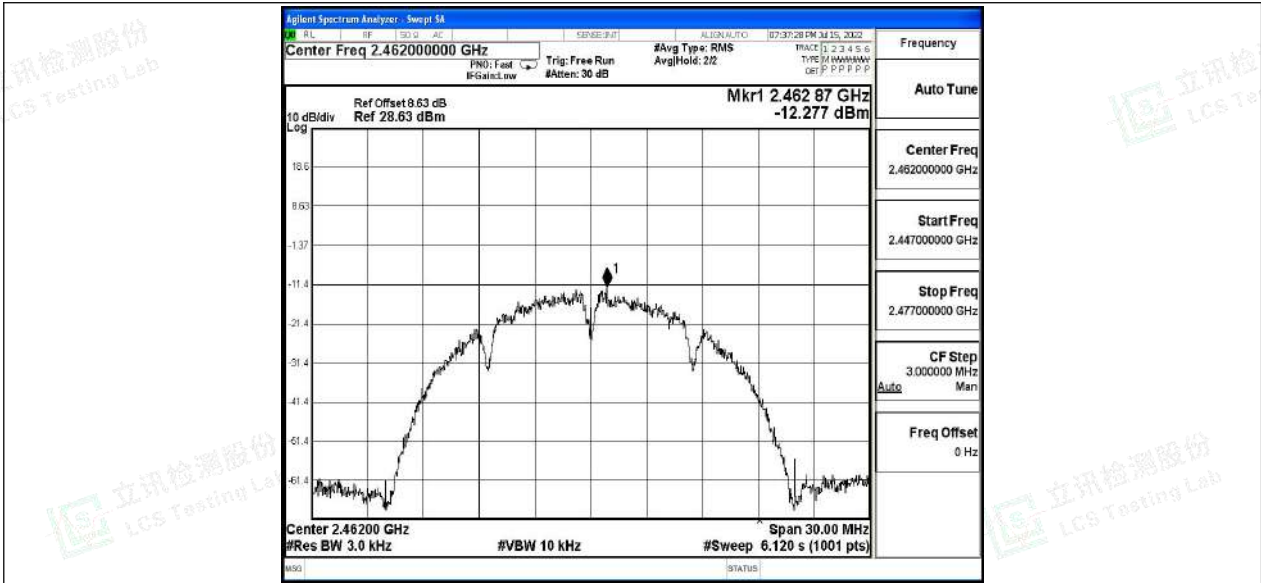


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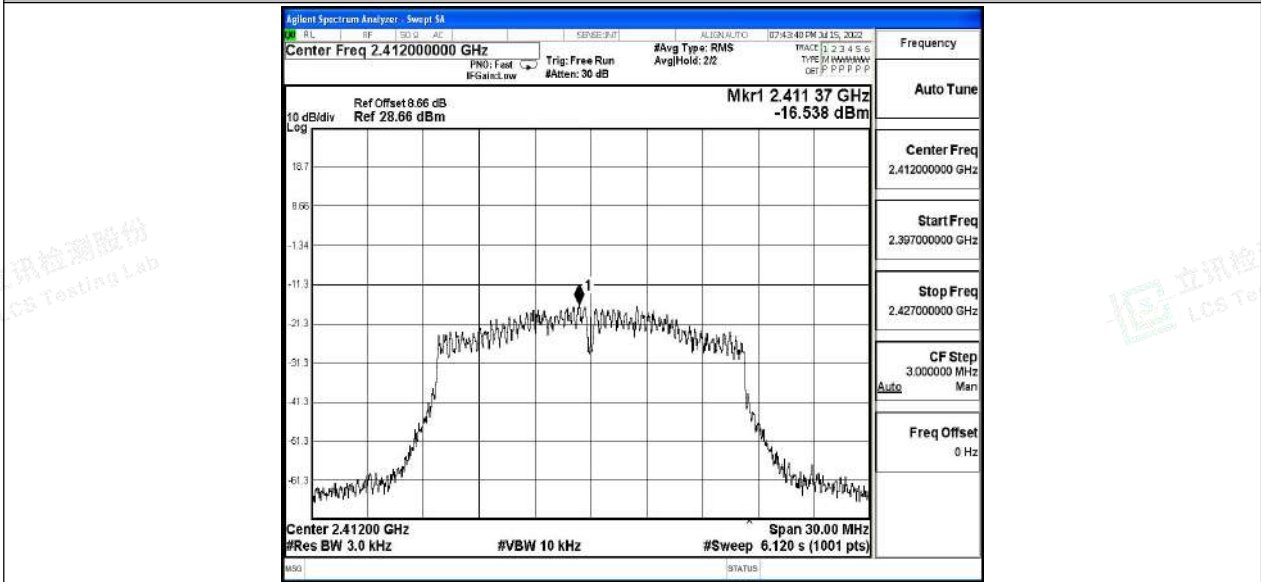
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11G_Ant1_2412



11G_Ant1_2437

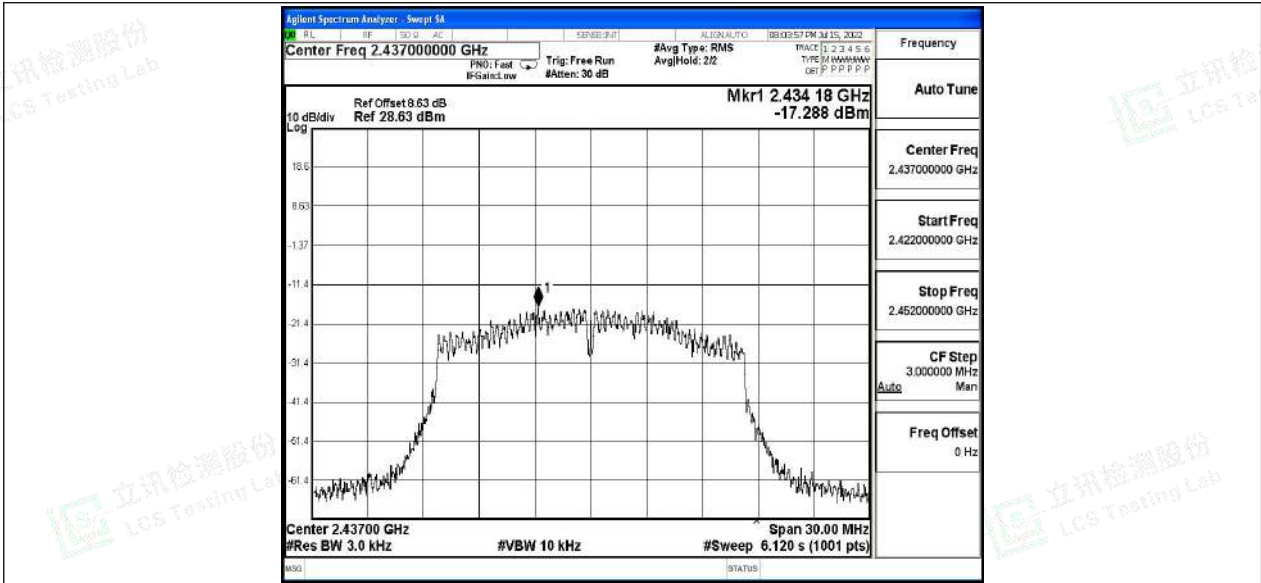


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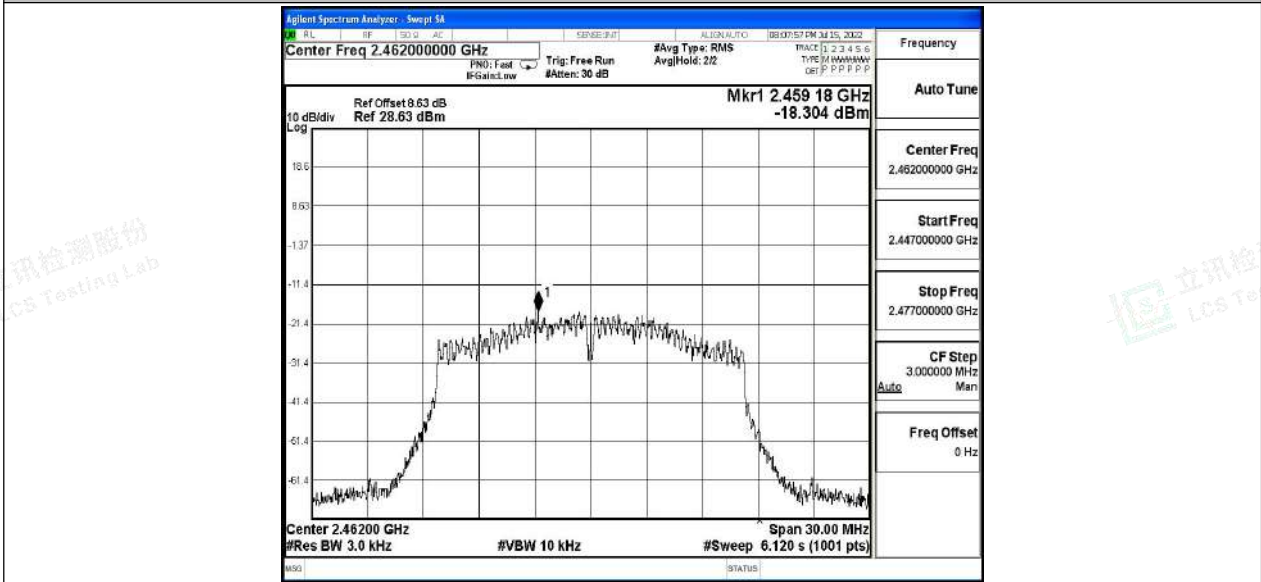
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11G_Ant1_2462



11N20SISO_Ant1_2412

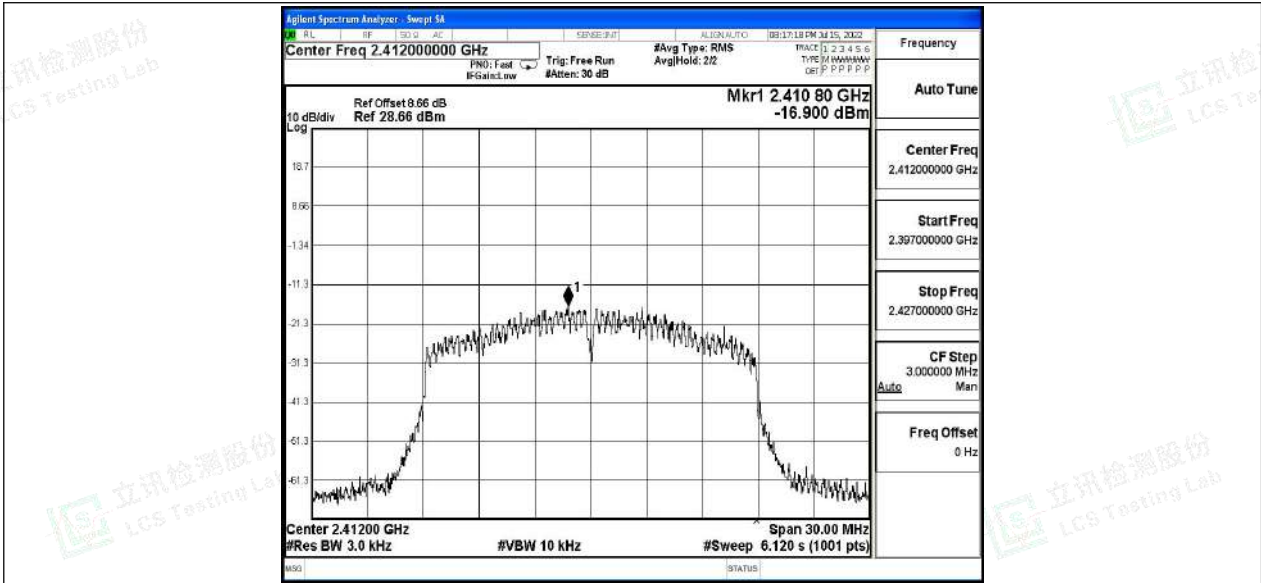


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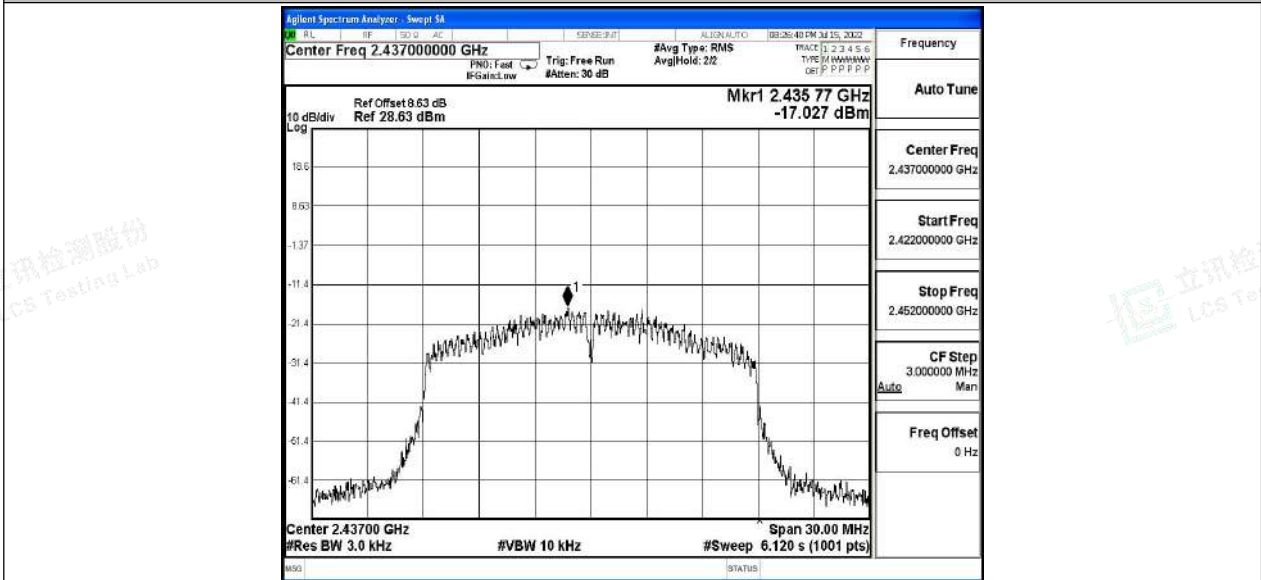
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

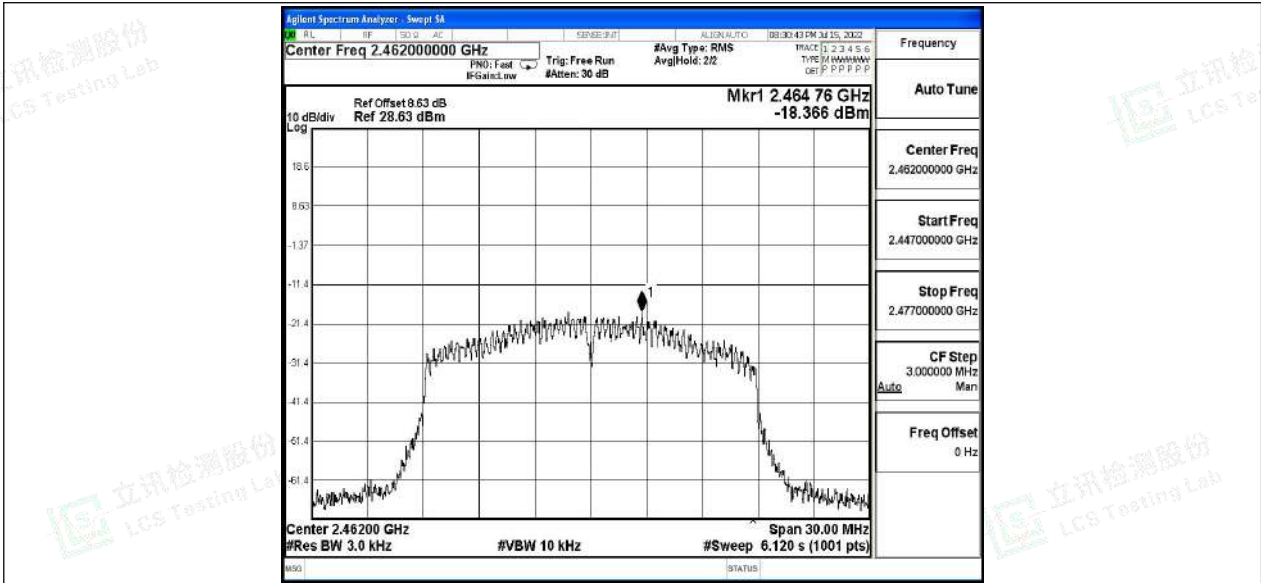


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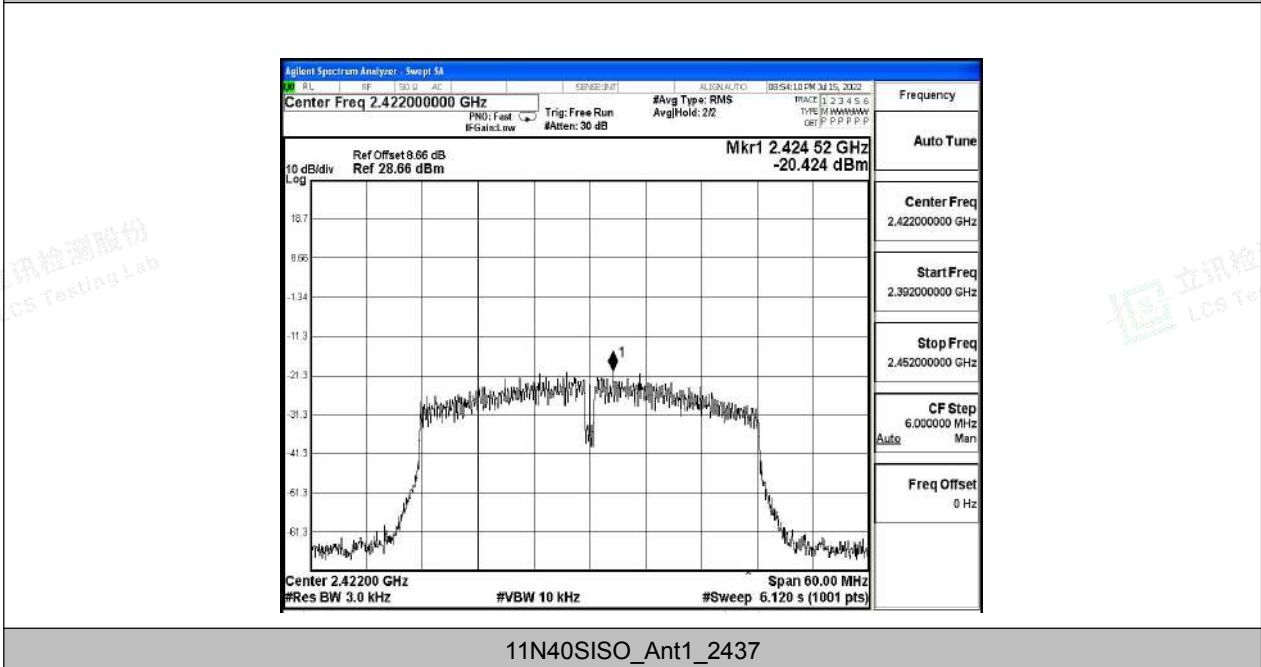
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

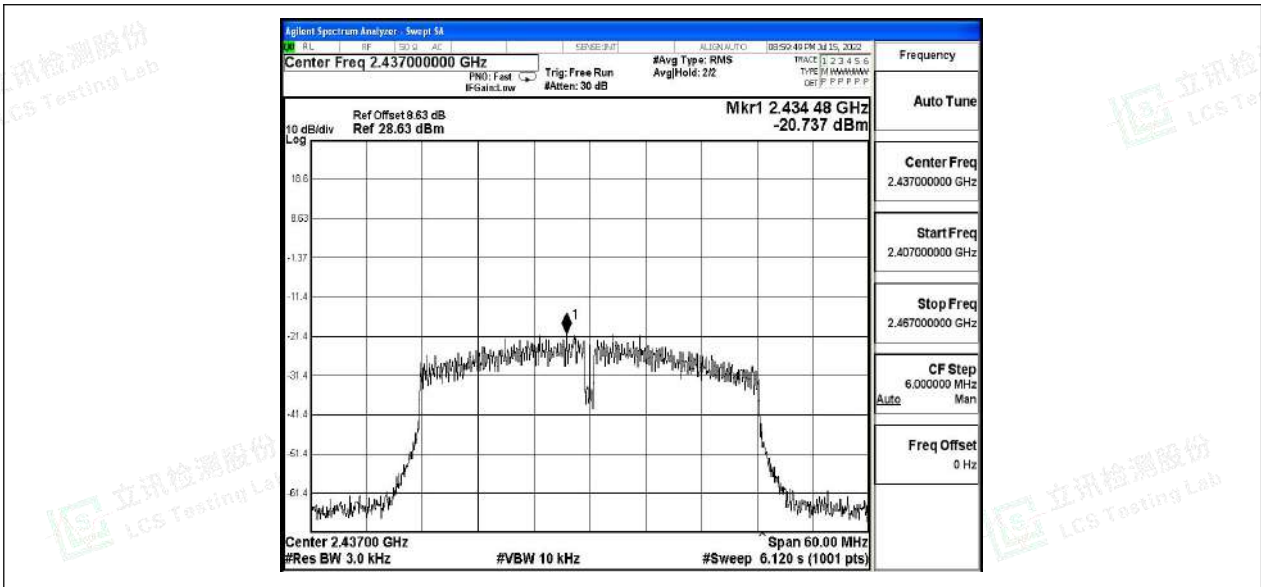


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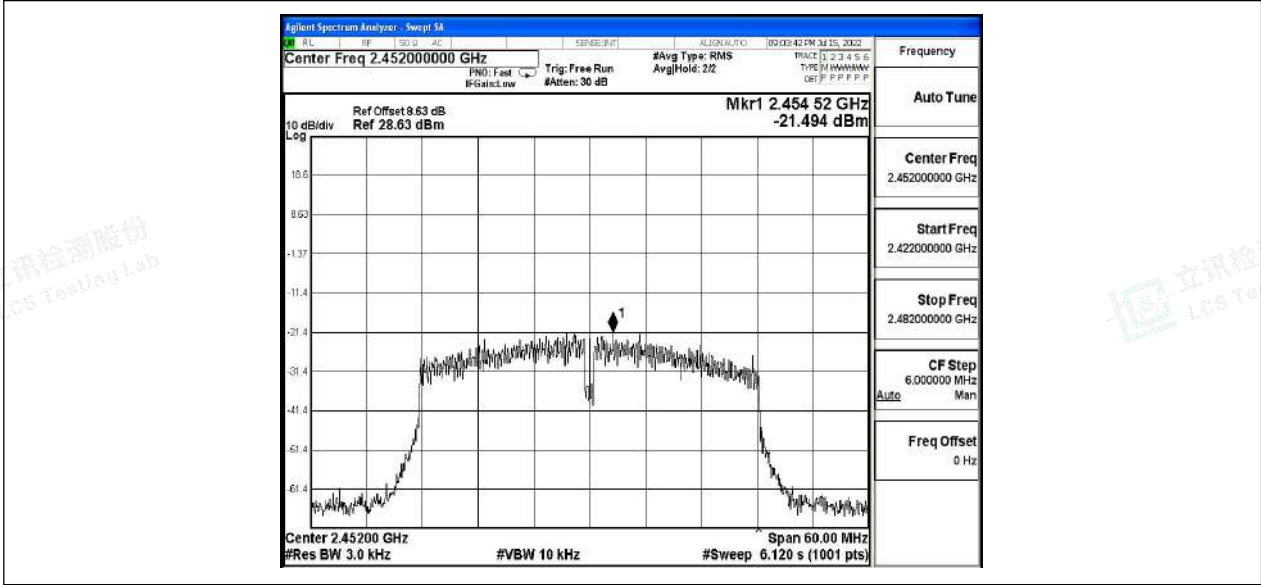
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11N40SISO_Ant1_2452



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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	3.88	-47.66	≤-16.12	PASS
		High	2462	2.10	-47.89	≤-17.9	PASS
11G	Ant1	Low	2412	-1.02	-44.17	≤-21.02	PASS
		High	2462	-3.15	-48.05	≤-23.15	PASS
11N20SISO	Ant1	Low	2412	-1.47	-45.61	≤-21.47	PASS
		High	2462	-3.22	-47.8	≤-23.22	PASS
11N40SISO	Ant1	Low	2422	-5.76	-43.96	≤-25.76	PASS
		High	2452	-7.03	-47.35	≤-27.03	PASS



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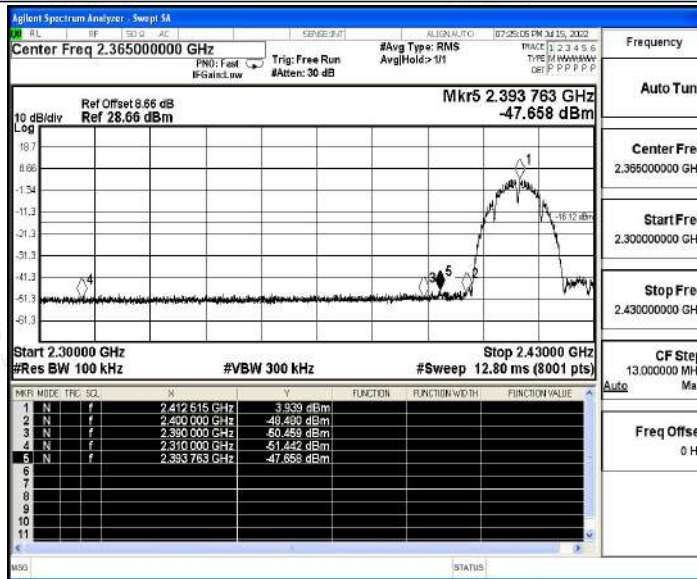
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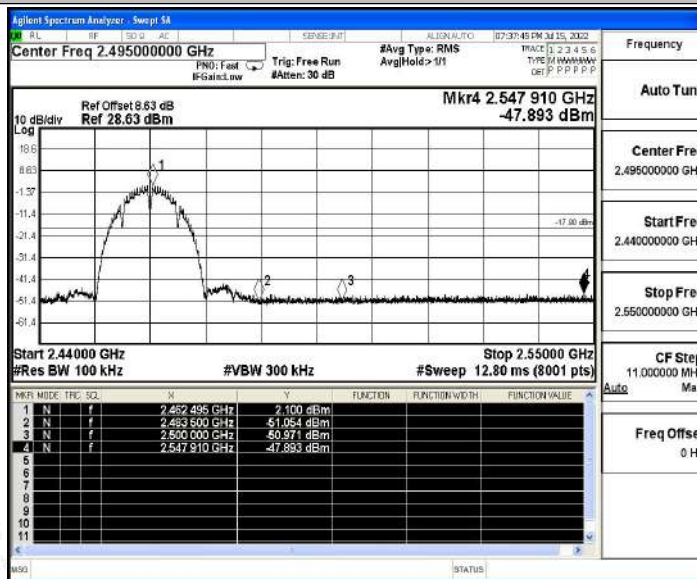


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

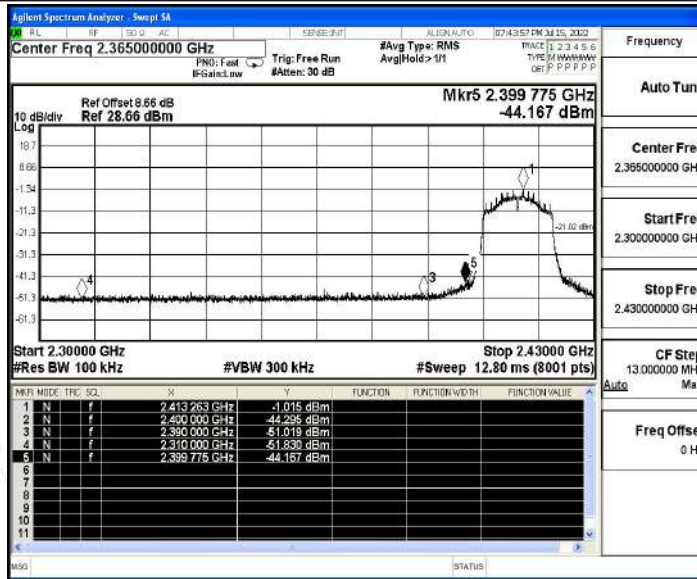


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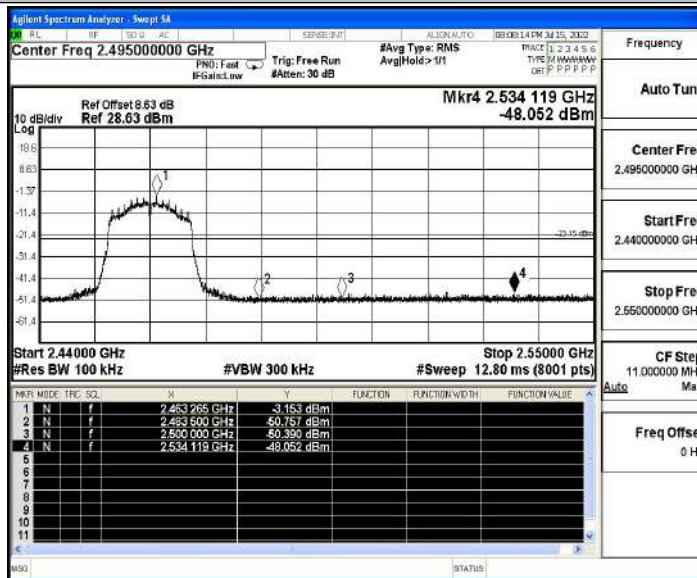
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

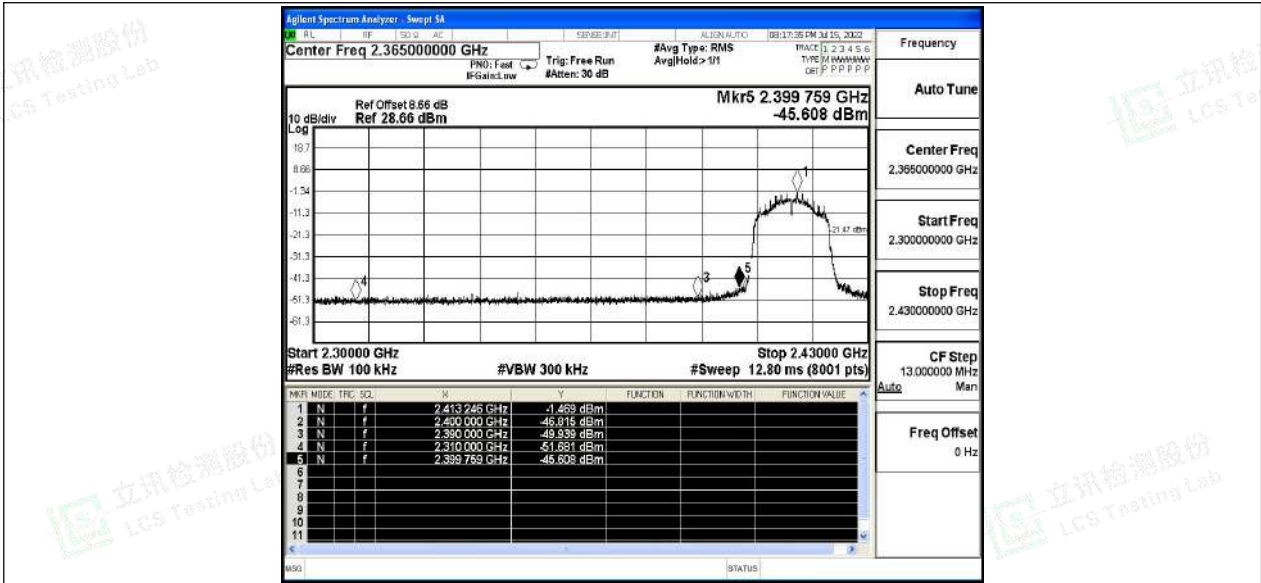


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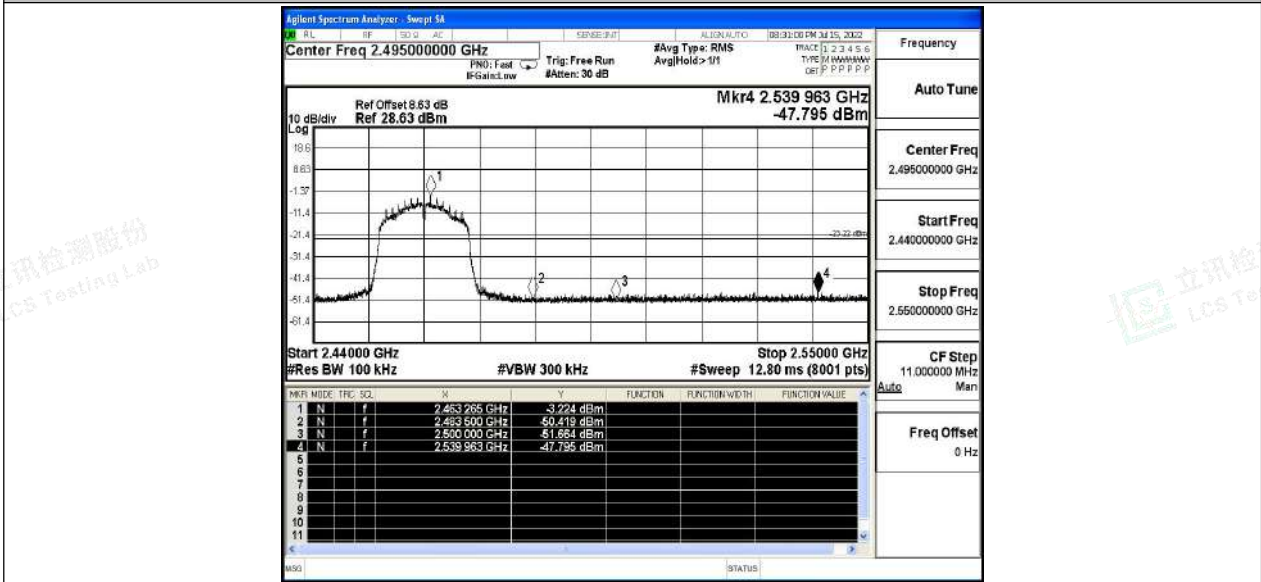
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

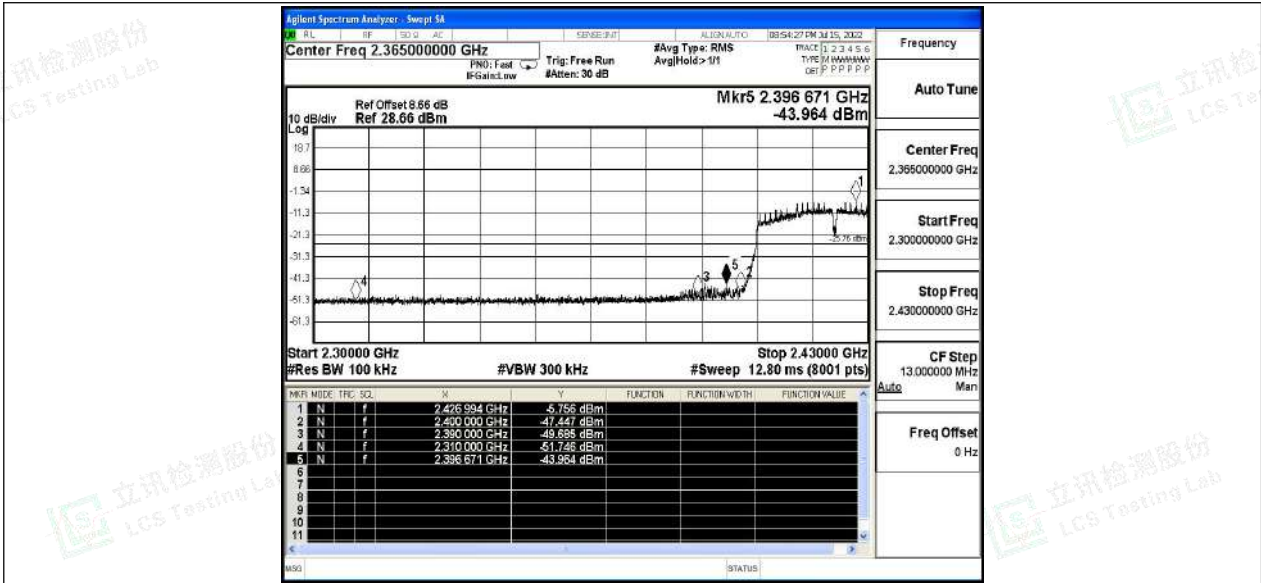


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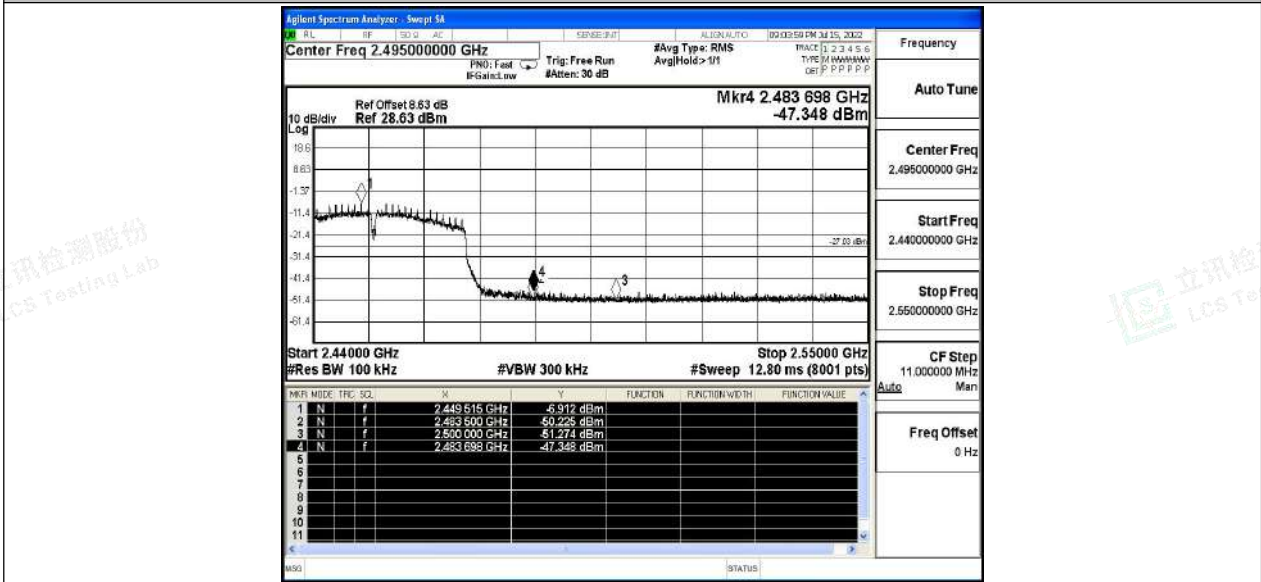
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11N40SISO_Ant1_High_2452



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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	Reference	4.01	4.01	---	PASS
			30~1000	4.01	-53.11	≤-15.99	PASS
			1000~26500	4.01	-24.68	≤-15.99	PASS
		2437	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-53.92	≤-16.75	PASS
			1000~26500	3.25	-27.3	≤-16.75	PASS
		2462	Reference	2.06	2.06	---	PASS
			30~1000	2.06	-53.16	≤-17.94	PASS
			1000~26500	2.06	-31.07	≤-17.94	PASS
11G	Ant1	2412	Reference	-0.94	-0.94	---	PASS
			30~1000	-0.94	-52.22	≤-20.94	PASS
			1000~26500	-0.94	-41.65	≤-20.94	PASS
		2437	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-53.21	≤-21.65	PASS
			1000~26500	-1.65	-43.66	≤-21.65	PASS
		2462	Reference	-2.91	-2.91	---	PASS
			30~1000	-2.91	-51.86	≤-22.91	PASS
			1000~26500	-2.91	-46.49	≤-22.91	PASS
11N20SISO	Ant1	2412	Reference	-1.20	-1.20	---	PASS
			30~1000	-1.20	-52.92	≤-21.2	PASS
			1000~26500	-1.20	-40.88	≤-21.2	PASS
		2437	Reference	-1.95	-1.95	---	PASS
			30~1000	-1.95	-53.17	≤-21.95	PASS
			1000~26500	-1.95	-43	≤-21.95	PASS
		2462	Reference	-3.31	-3.31	---	PASS
			30~1000	-3.31	-52.18	≤-23.31	PASS
			1000~26500	-3.31	-46.49	≤-23.31	PASS
11N40SISO	Ant1	2422	Reference	-6.14	-6.14	---	PASS
			30~1000	-6.14	-42.19	≤-26.14	PASS
			1000~26500	-6.14	-44.03	≤-26.14	PASS
		2437	Reference	-6.27	-6.27	---	PASS
			30~1000	-6.27	-46.62	≤-26.27	PASS
			1000~26500	-6.27	-45.45	≤-26.27	PASS
		2452	Reference	-6.84	-6.84	---	PASS
			30~1000	-6.84	-60.28	≤-26.84	PASS
			1000~26500	-6.84	-46.64	≤-26.84	PASS



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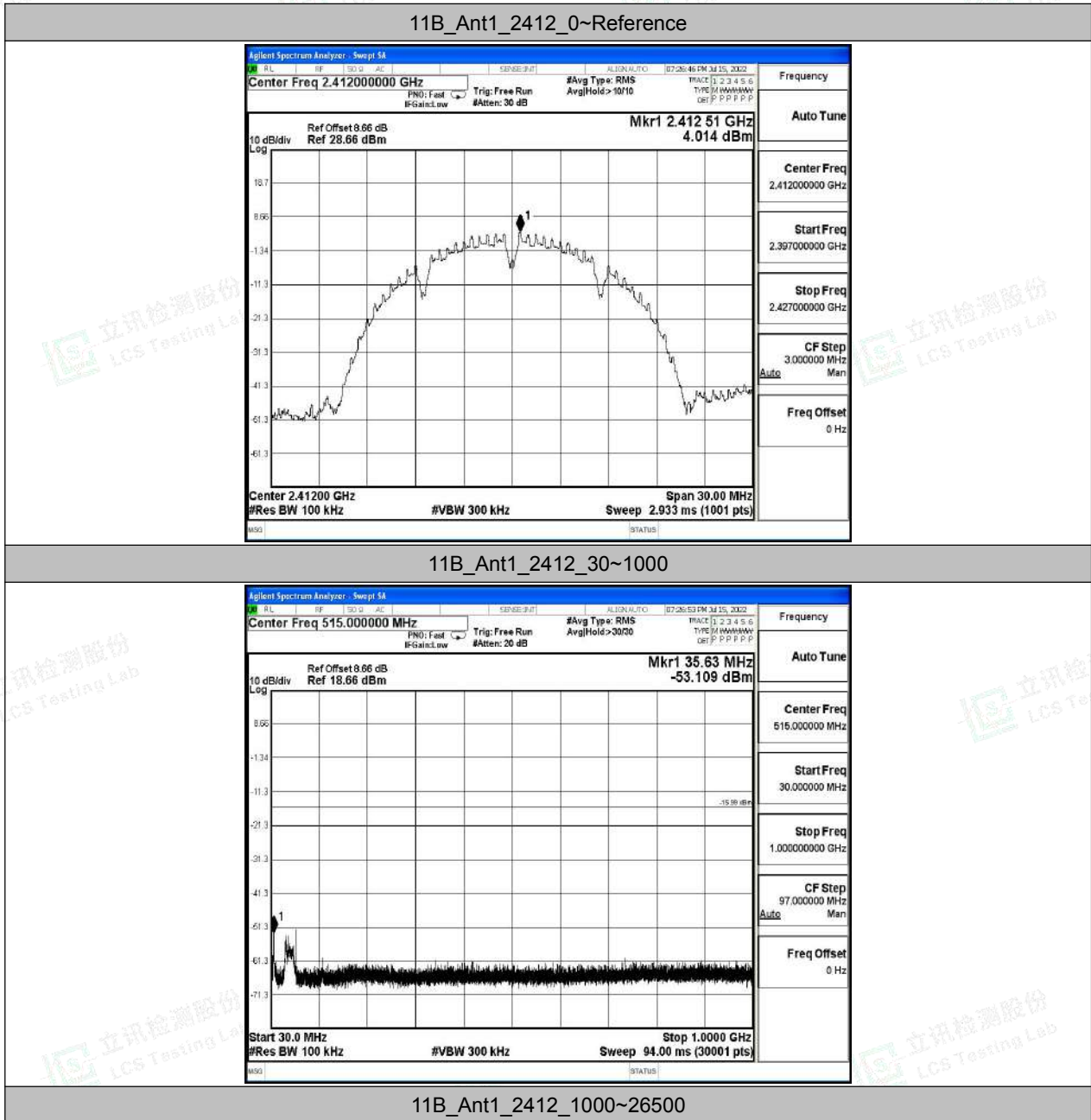
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Test Graphs

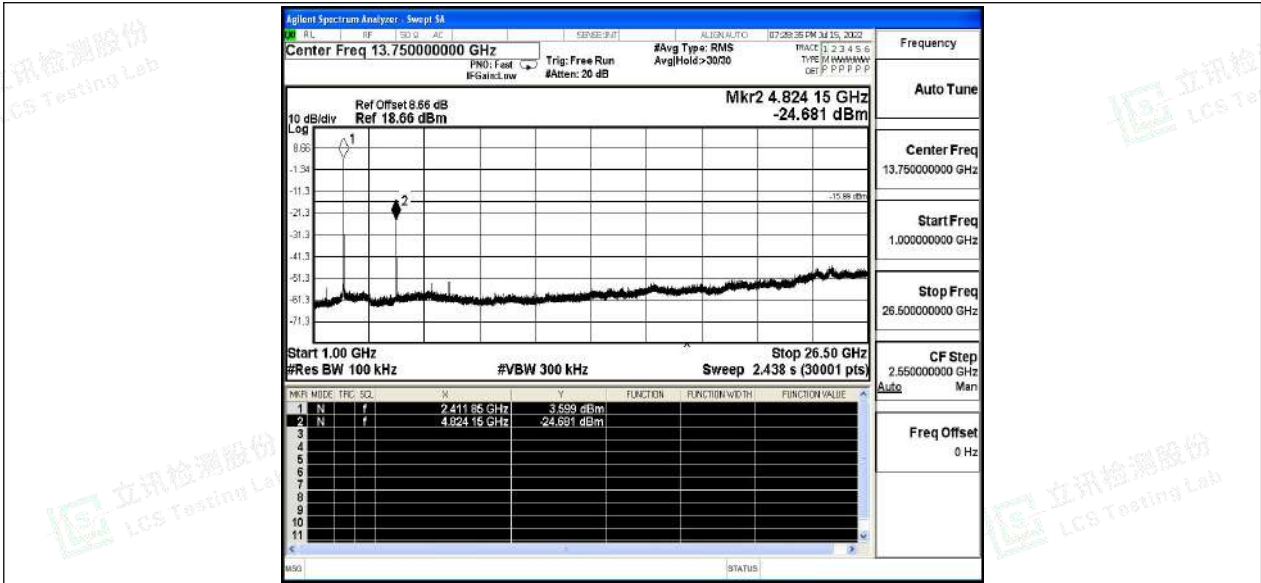


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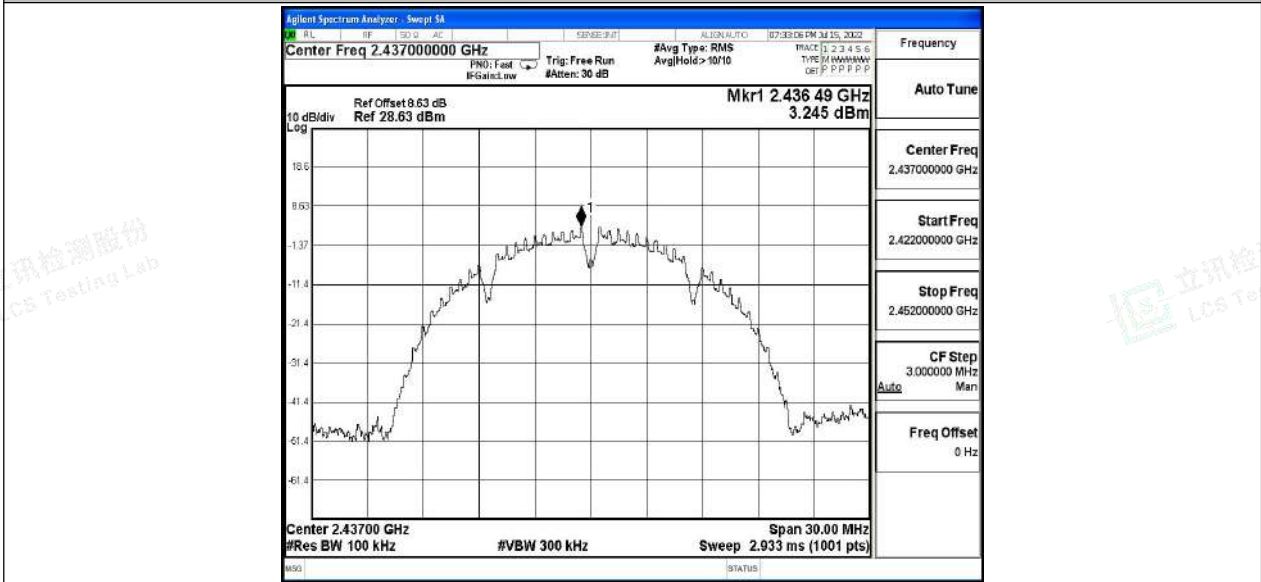
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

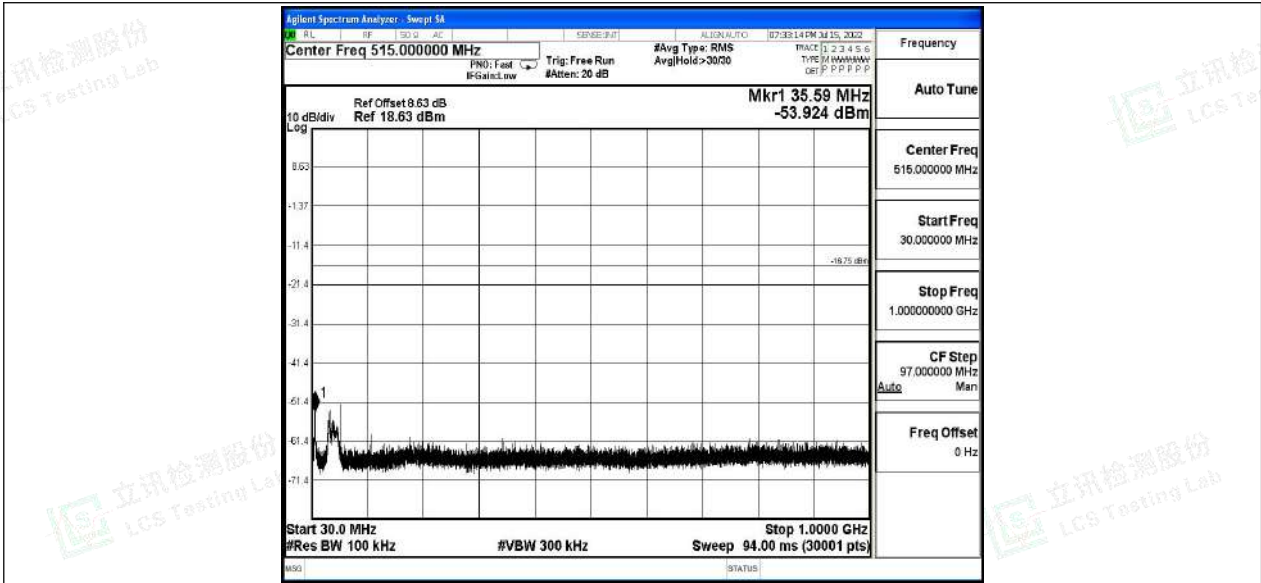


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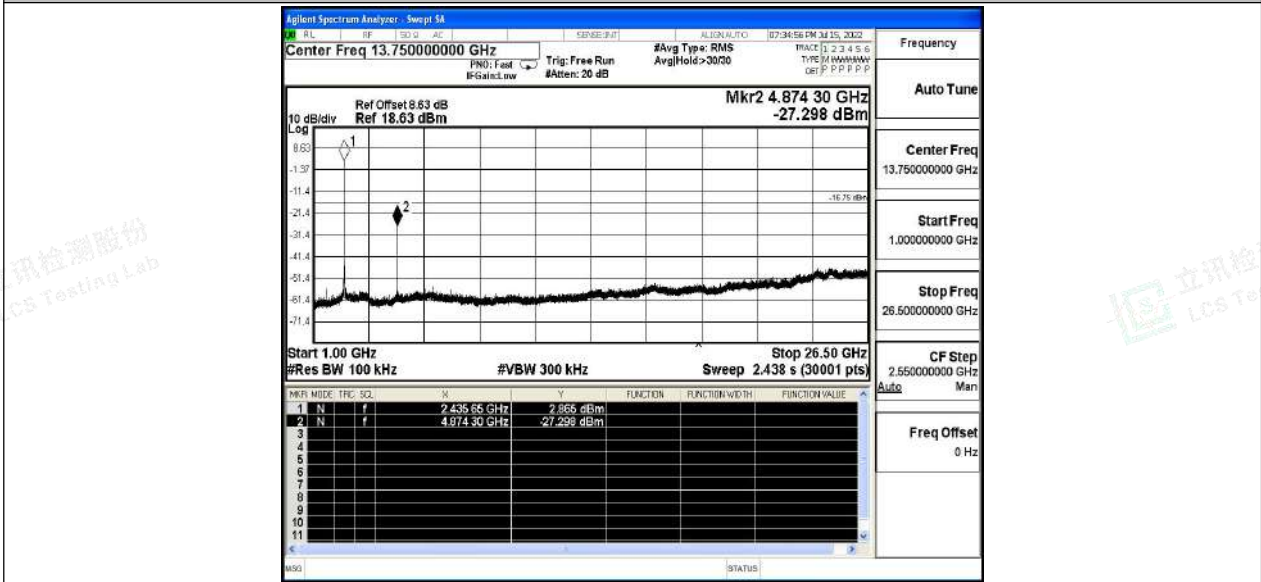
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

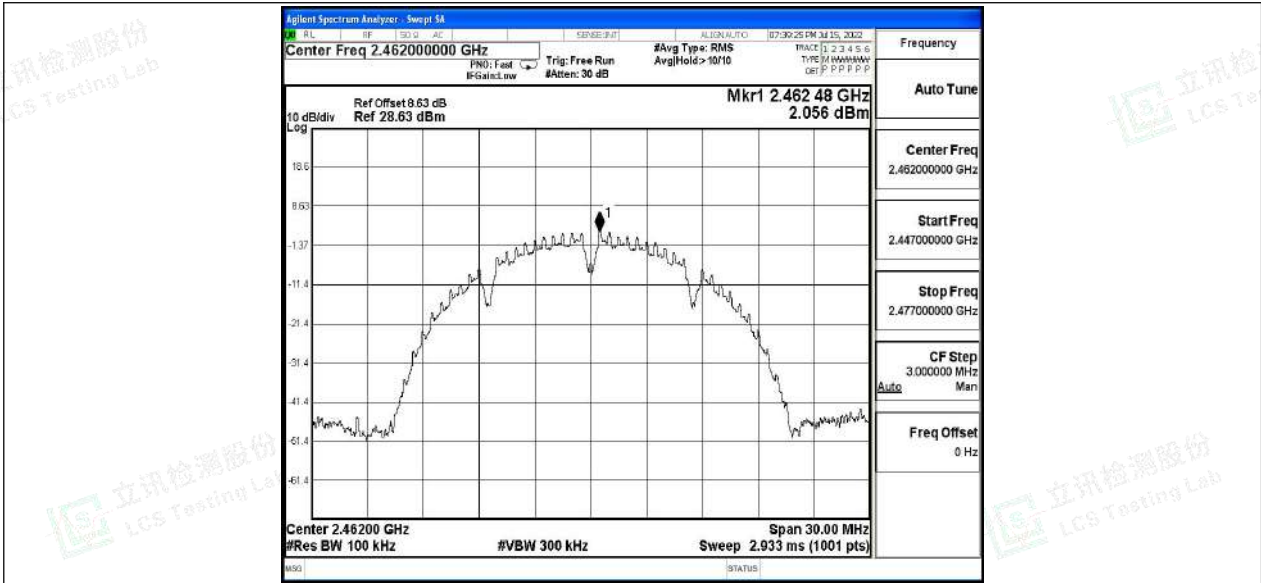


Shenzhen LCS Compliance Testing Laboratory Ltd.

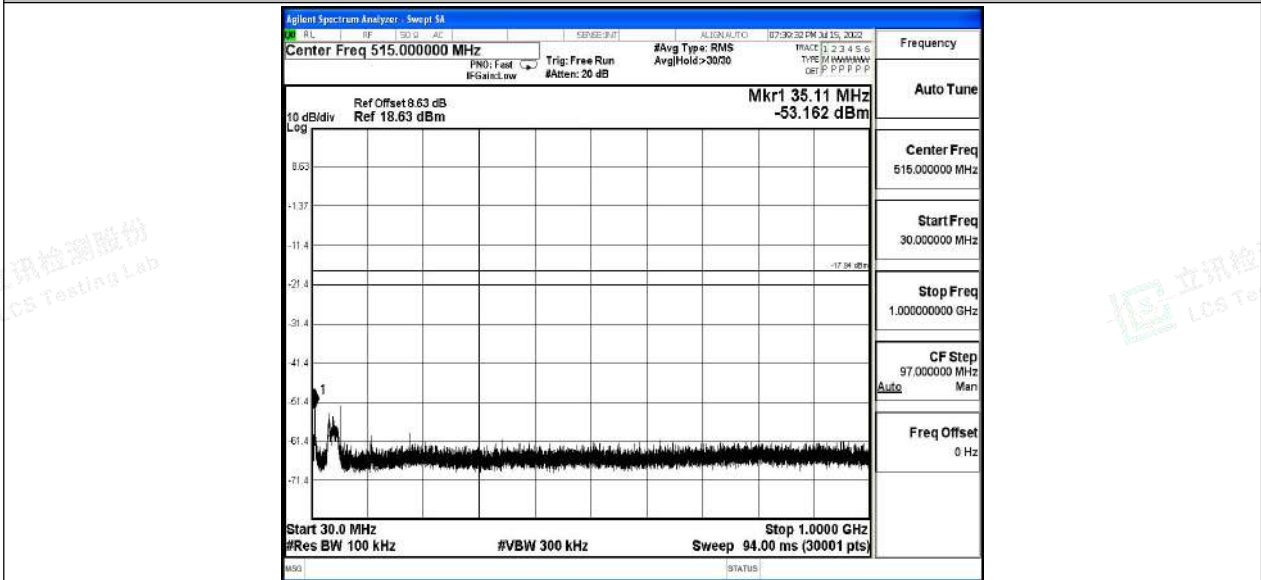
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

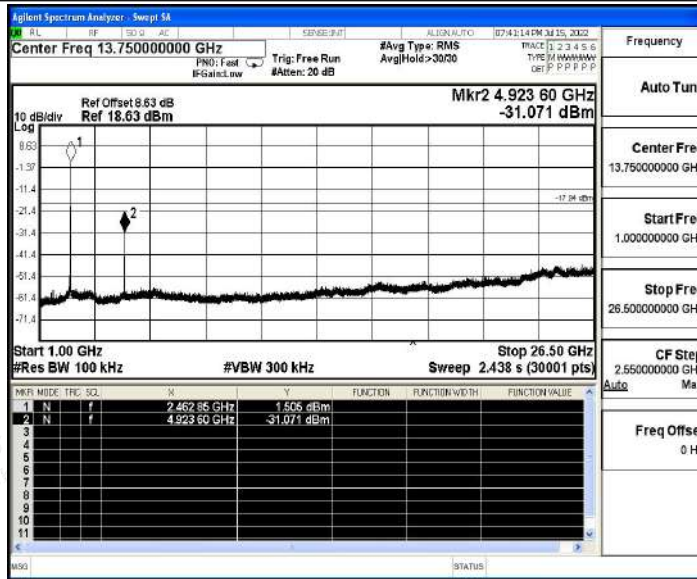


Shenzhen LCS Compliance Testing Laboratory Ltd.

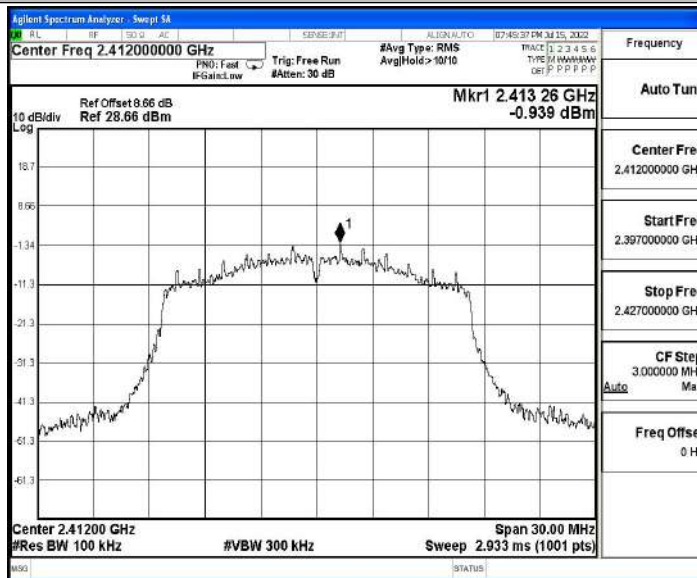
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

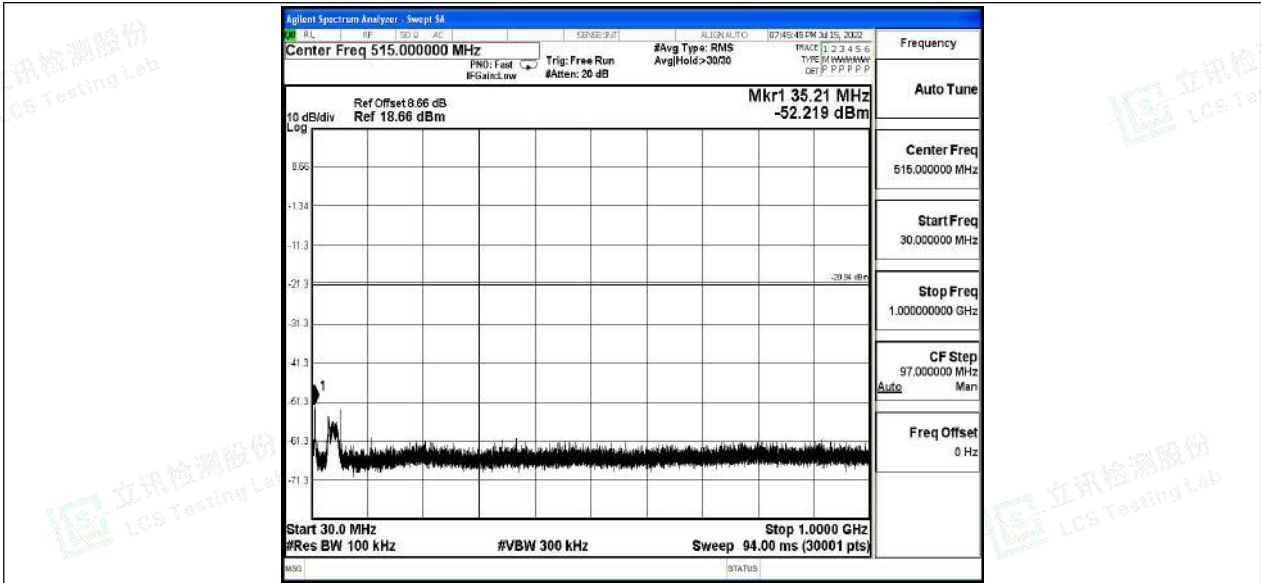


Shenzhen LCS Compliance Testing Laboratory Ltd.

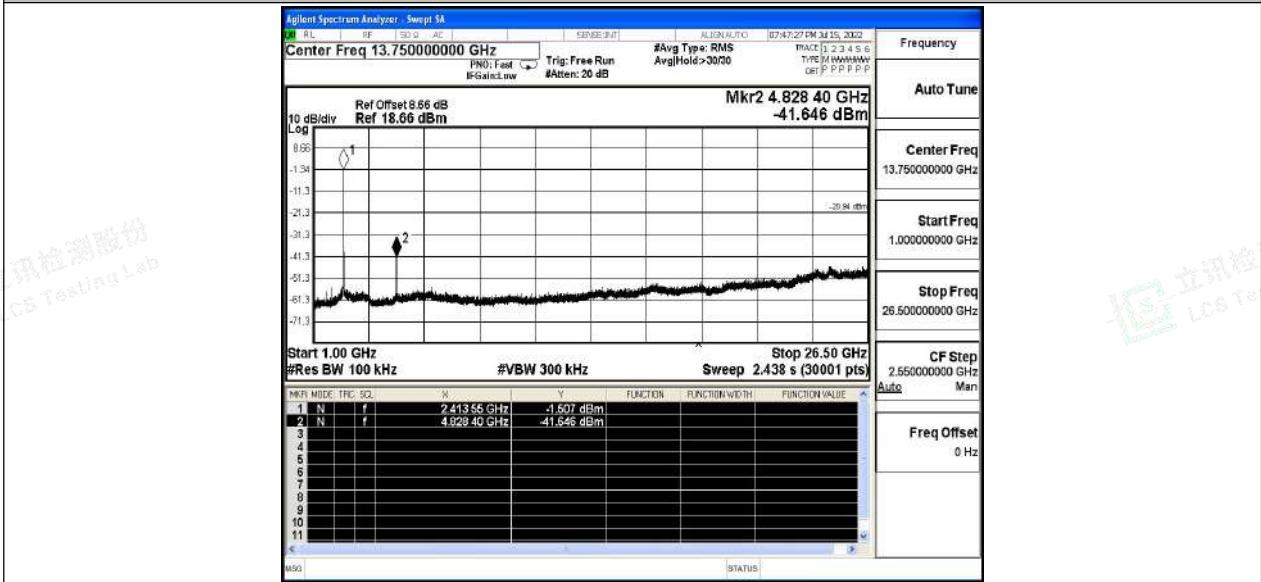
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

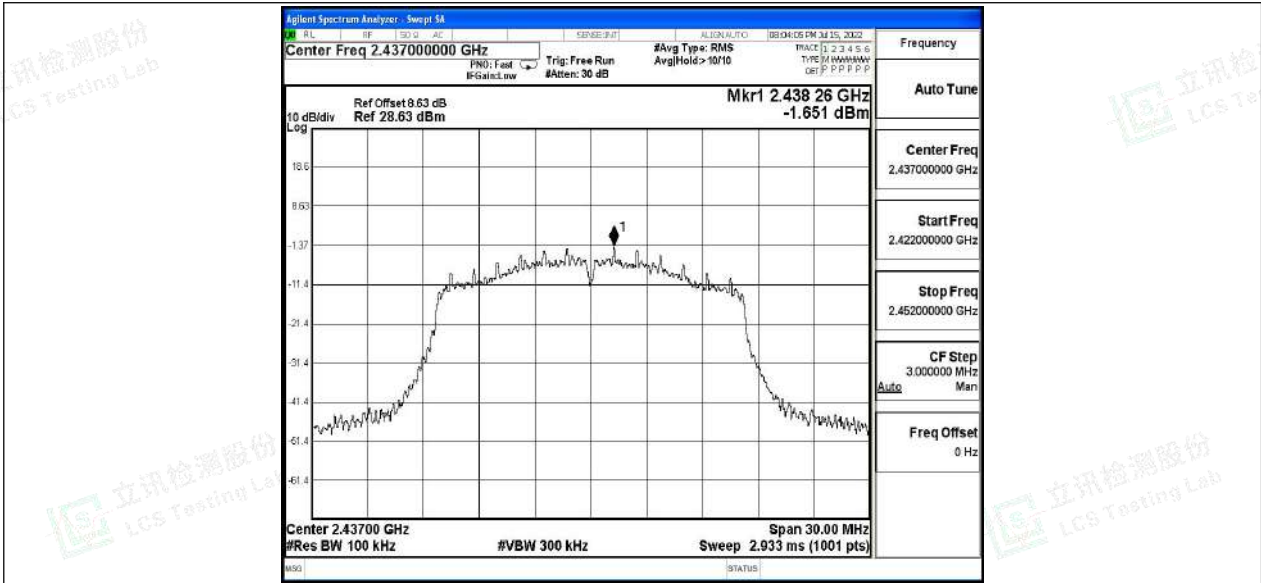


Shenzhen LCS Compliance Testing Laboratory Ltd.

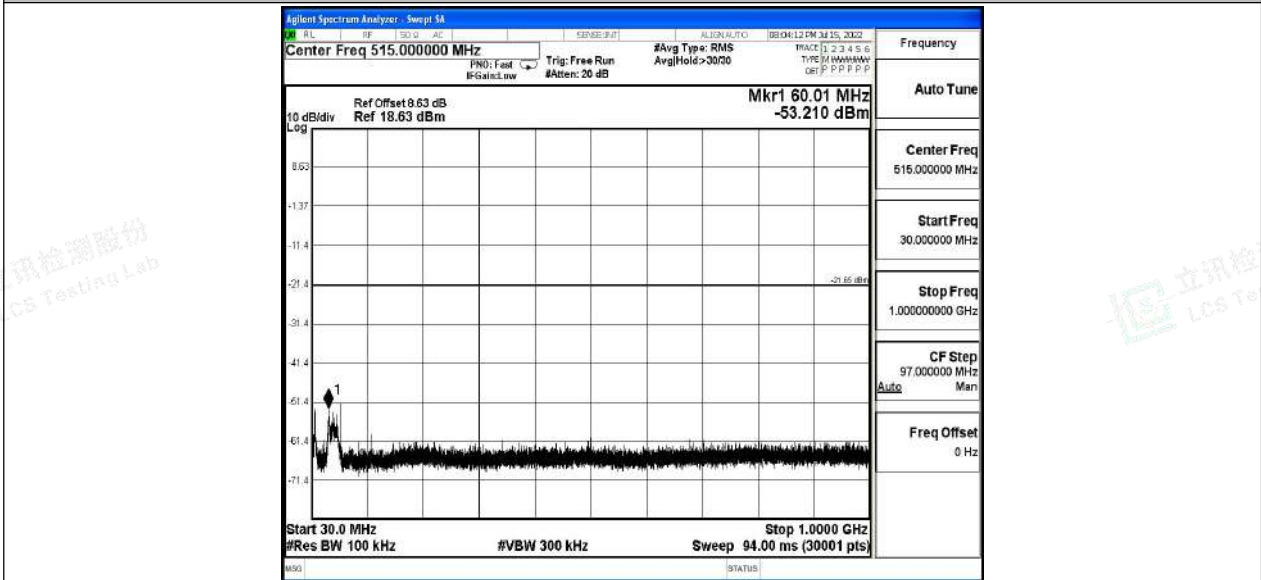
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

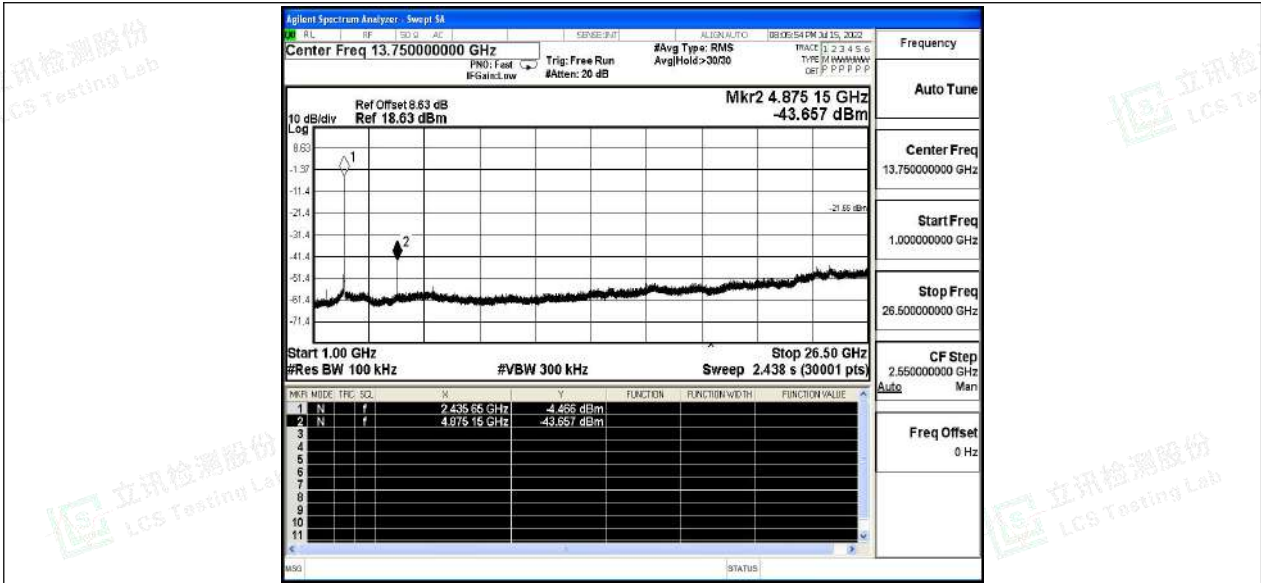


Shenzhen LCS Compliance Testing Laboratory Ltd.

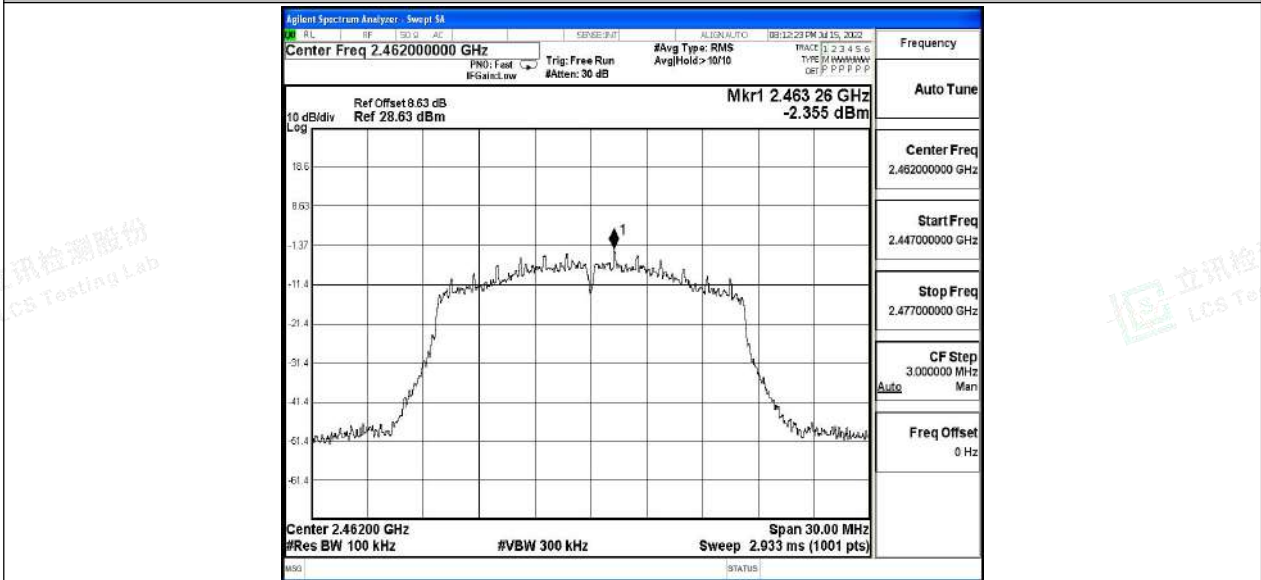
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

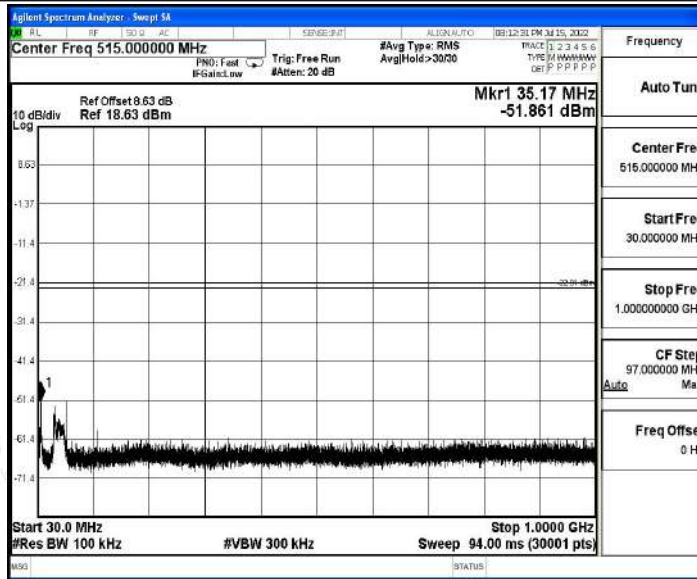


Shenzhen LCS Compliance Testing Laboratory Ltd.

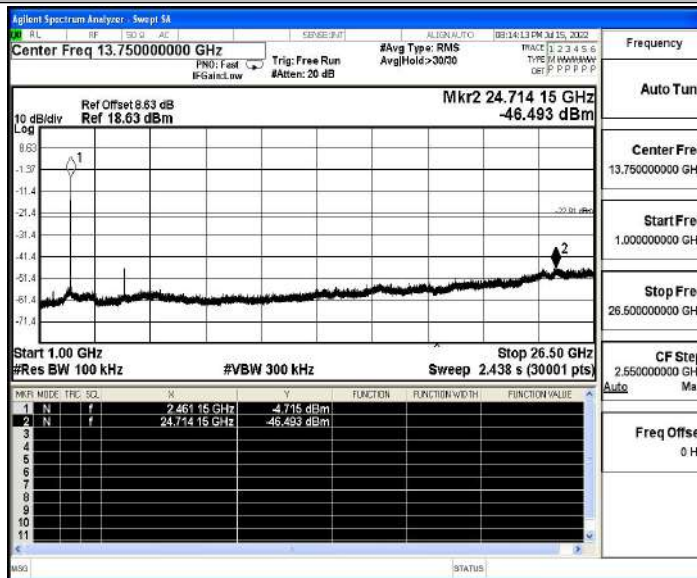
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference

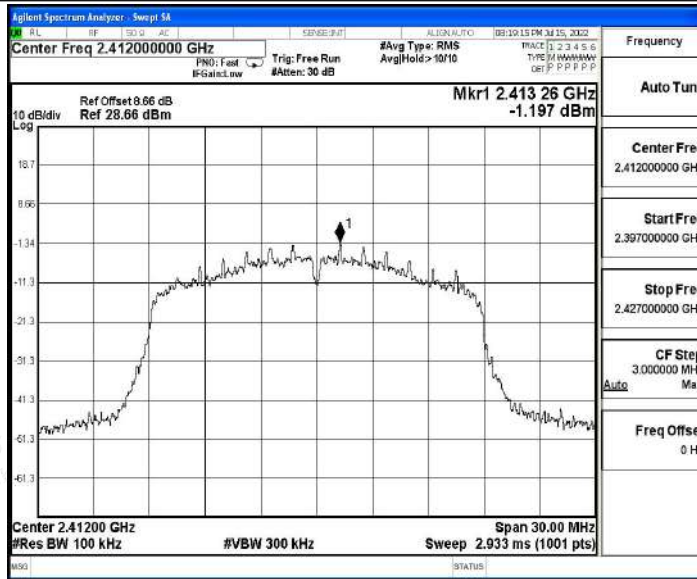


Shenzhen LCS Compliance Testing Laboratory Ltd.

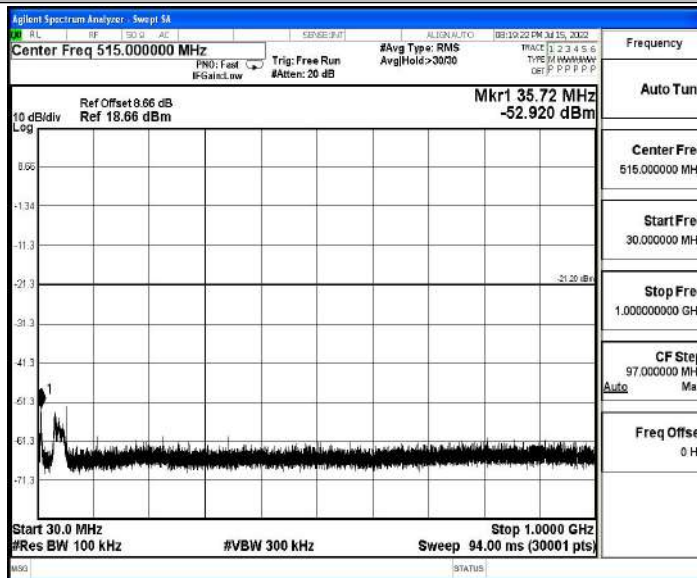
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500

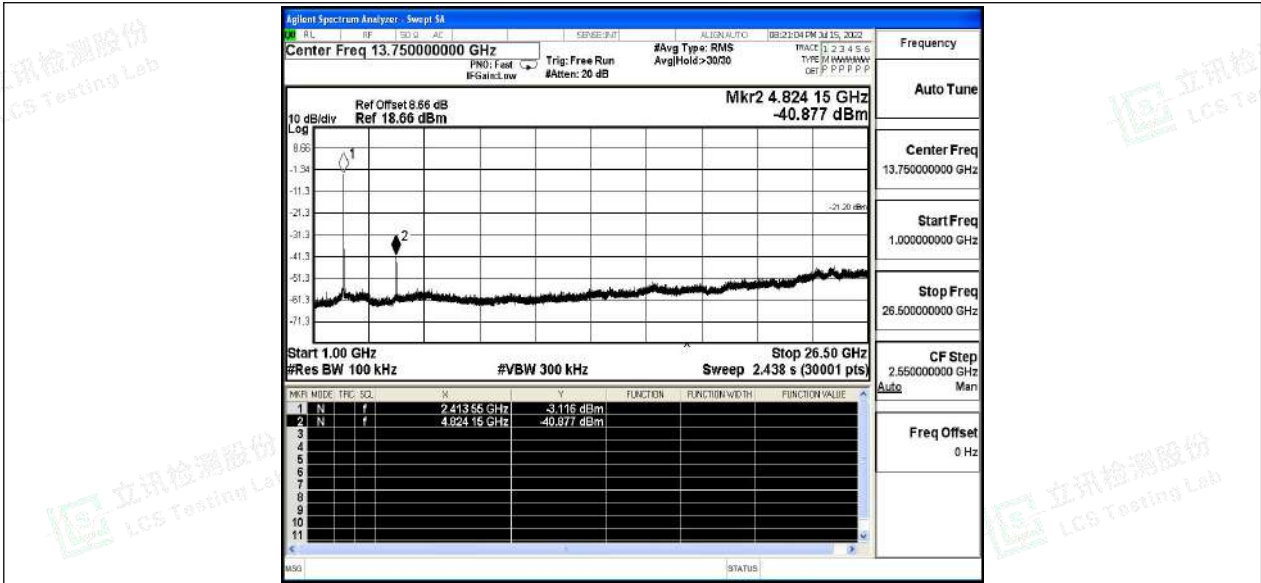


Shenzhen LCS Compliance Testing Laboratory Ltd.

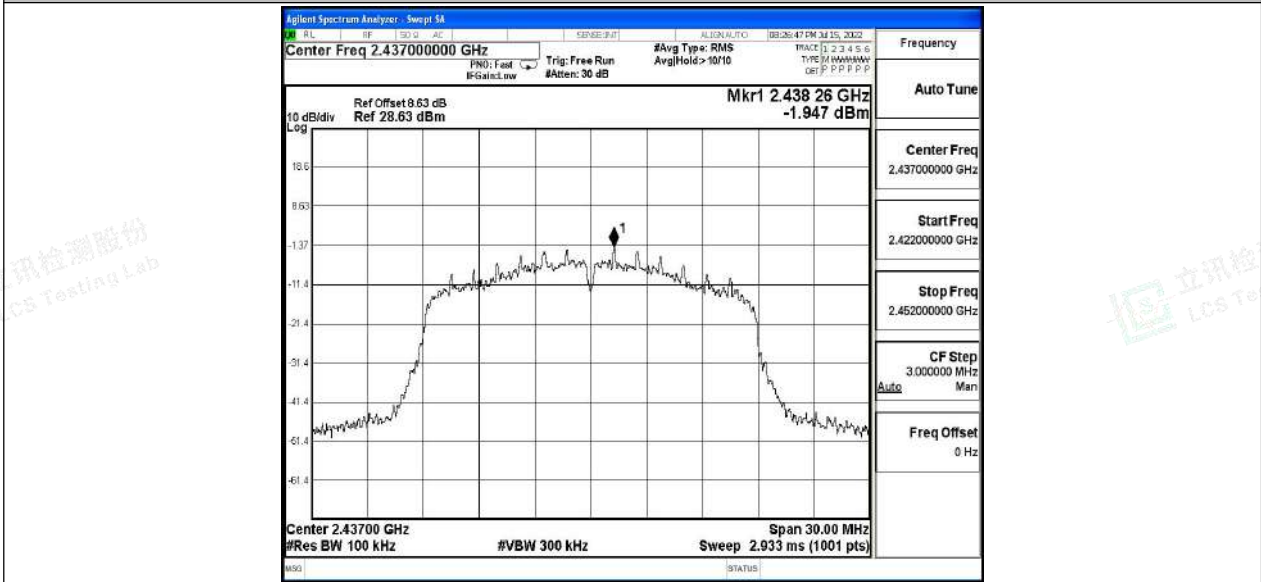
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

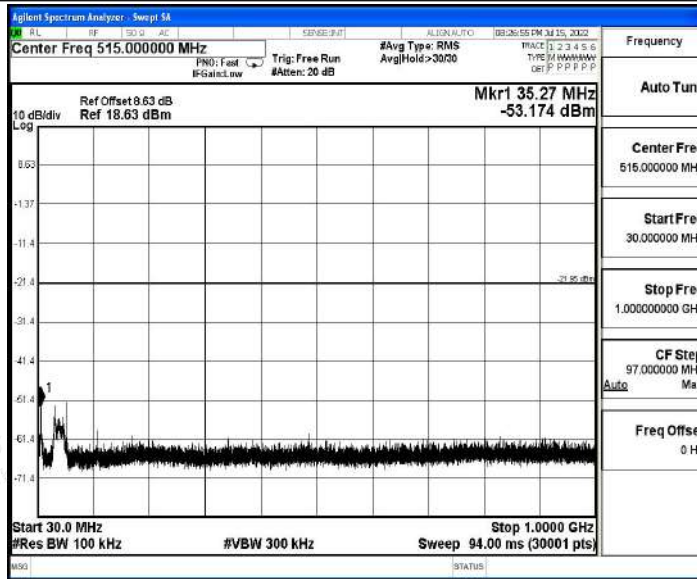


Shenzhen LCS Compliance Testing Laboratory Ltd.

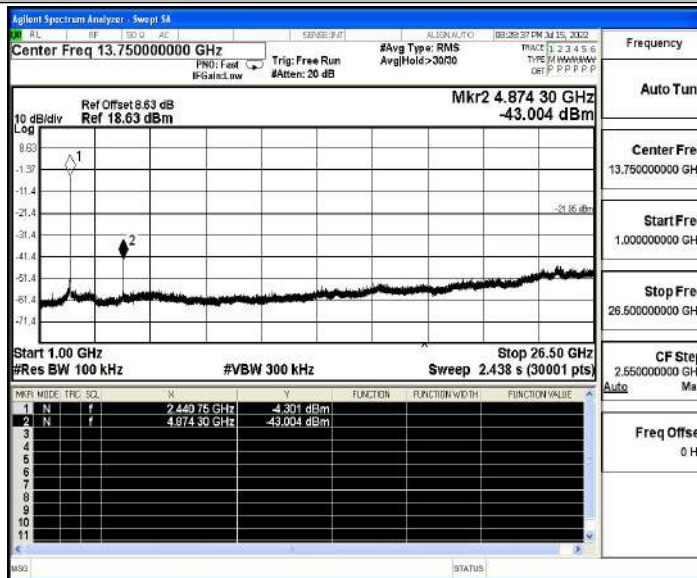
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

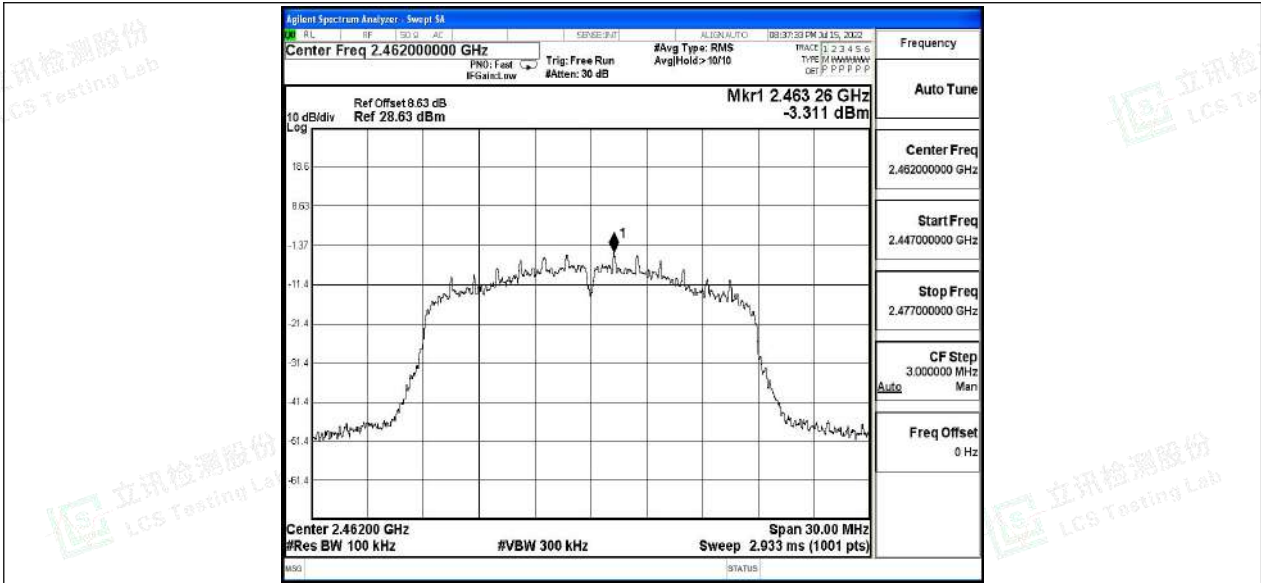


Shenzhen LCS Compliance Testing Laboratory Ltd.

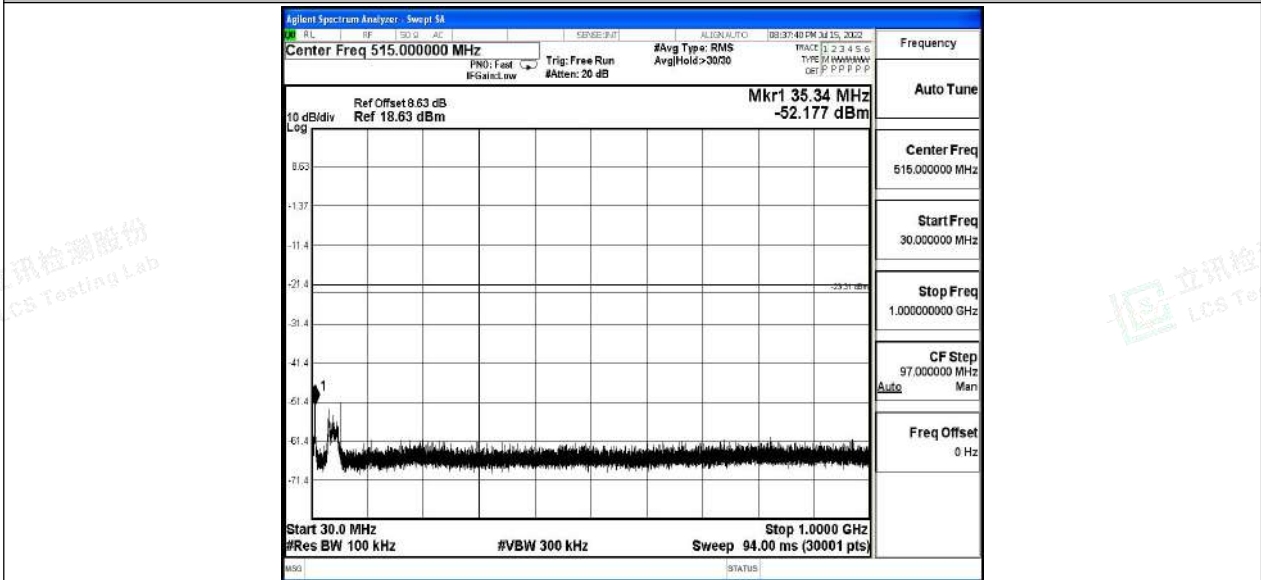
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500

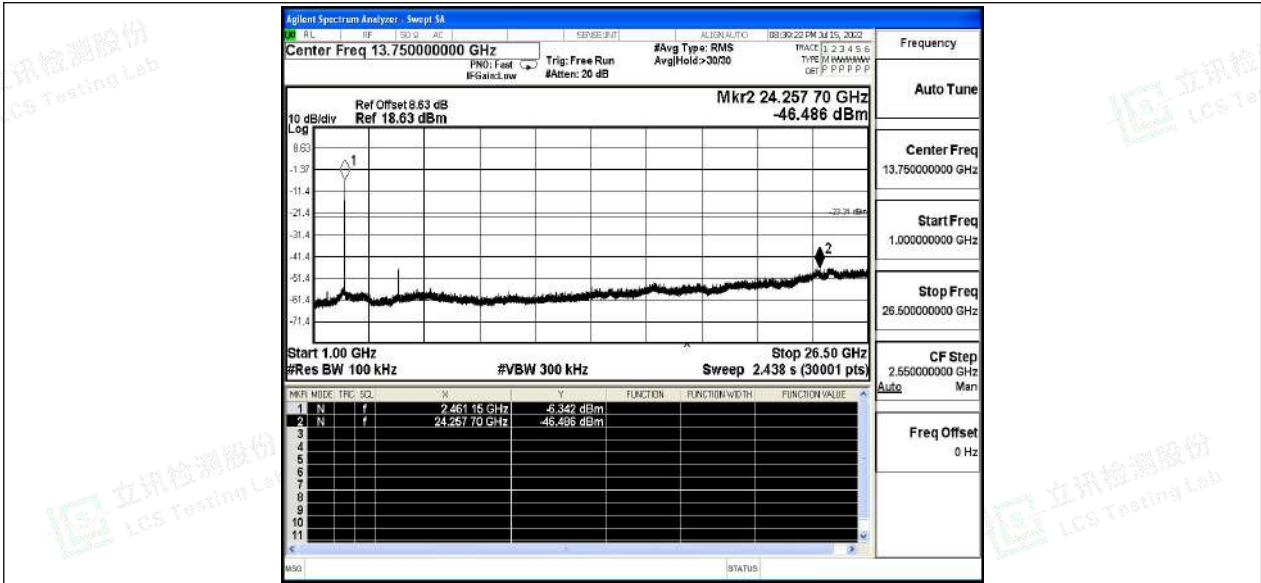


Shenzhen LCS Compliance Testing Laboratory Ltd.

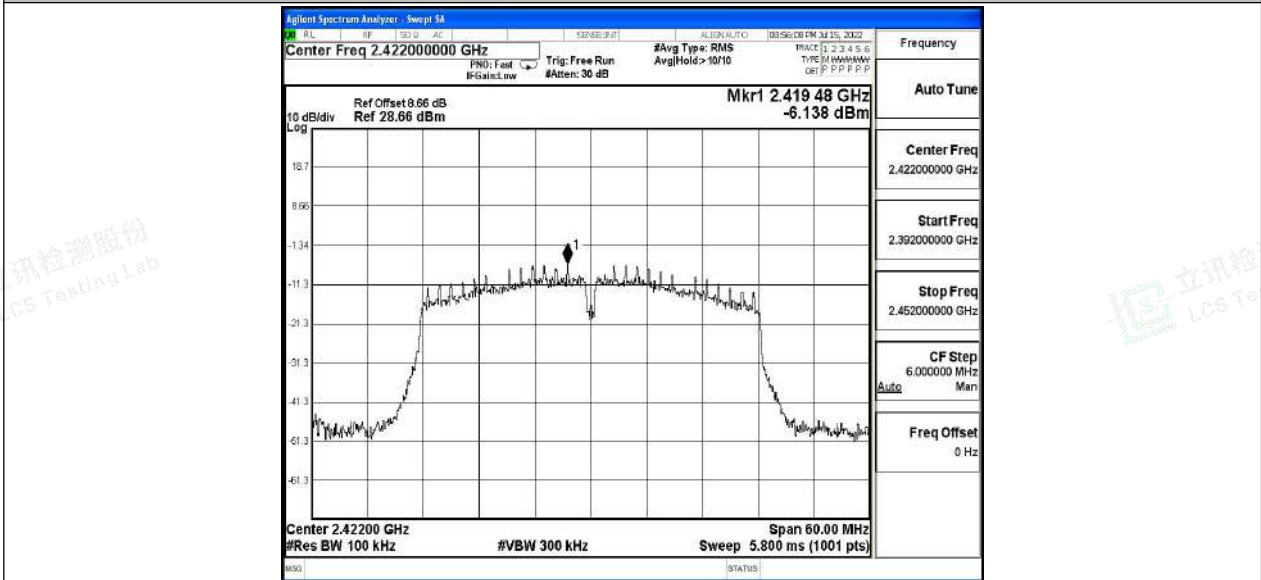
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000

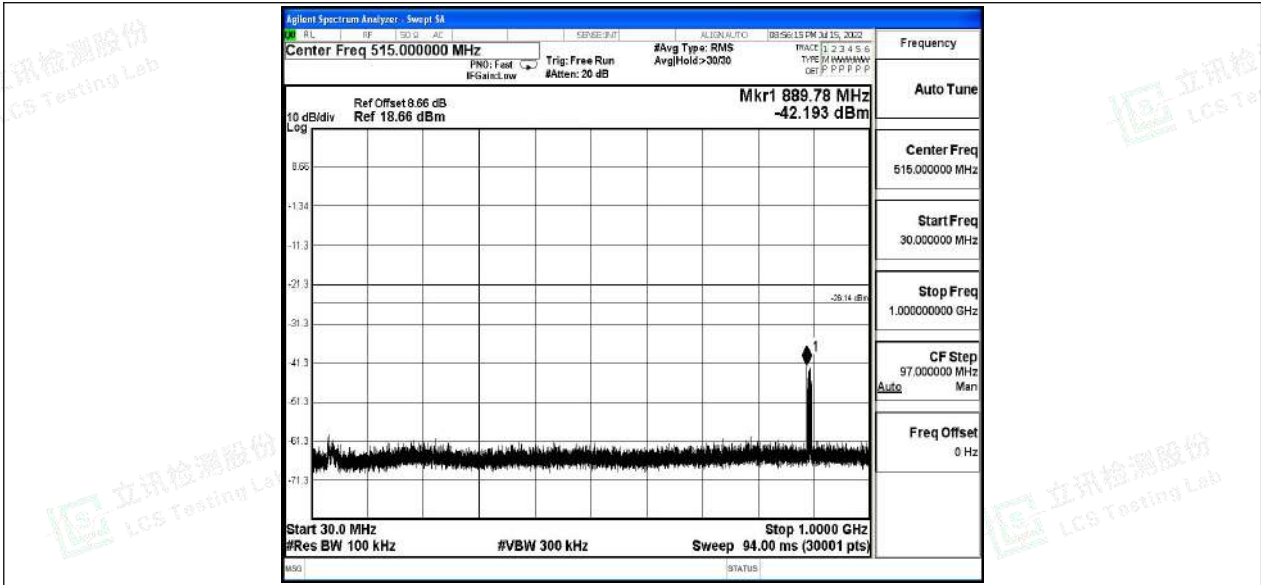


Shenzhen LCS Compliance Testing Laboratory Ltd.

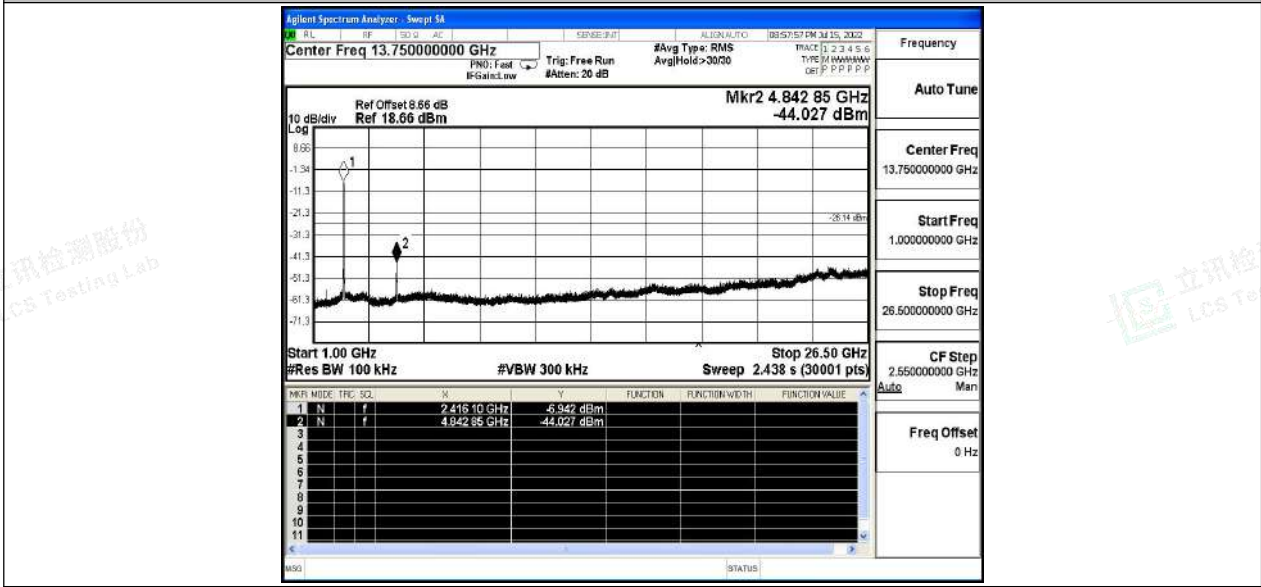
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference

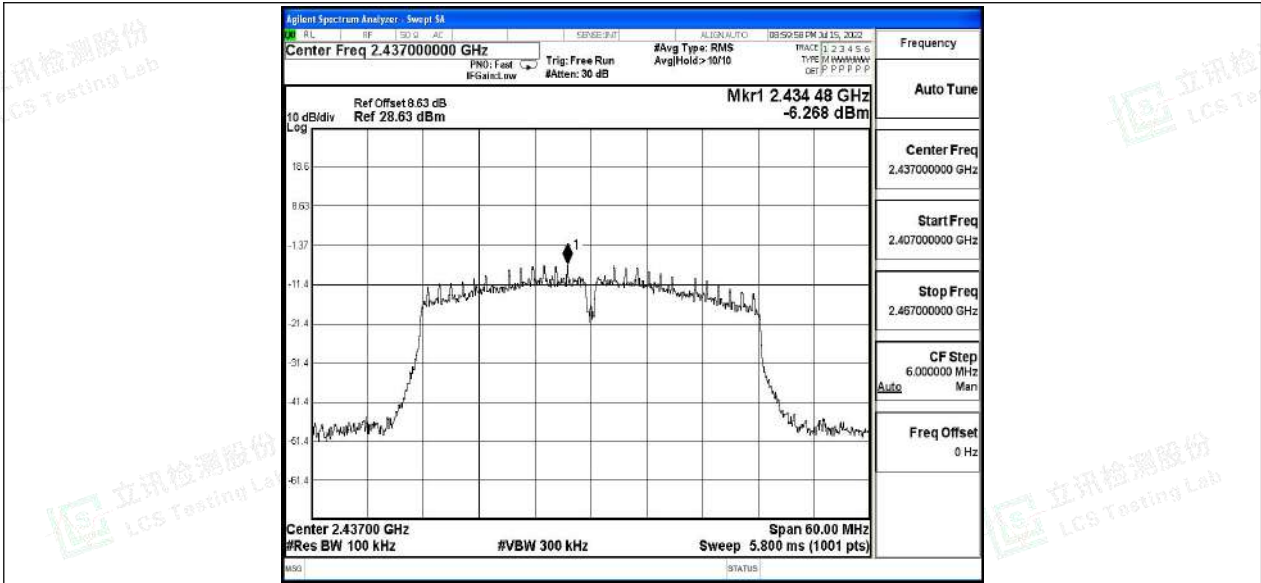


Shenzhen LCS Compliance Testing Laboratory Ltd.

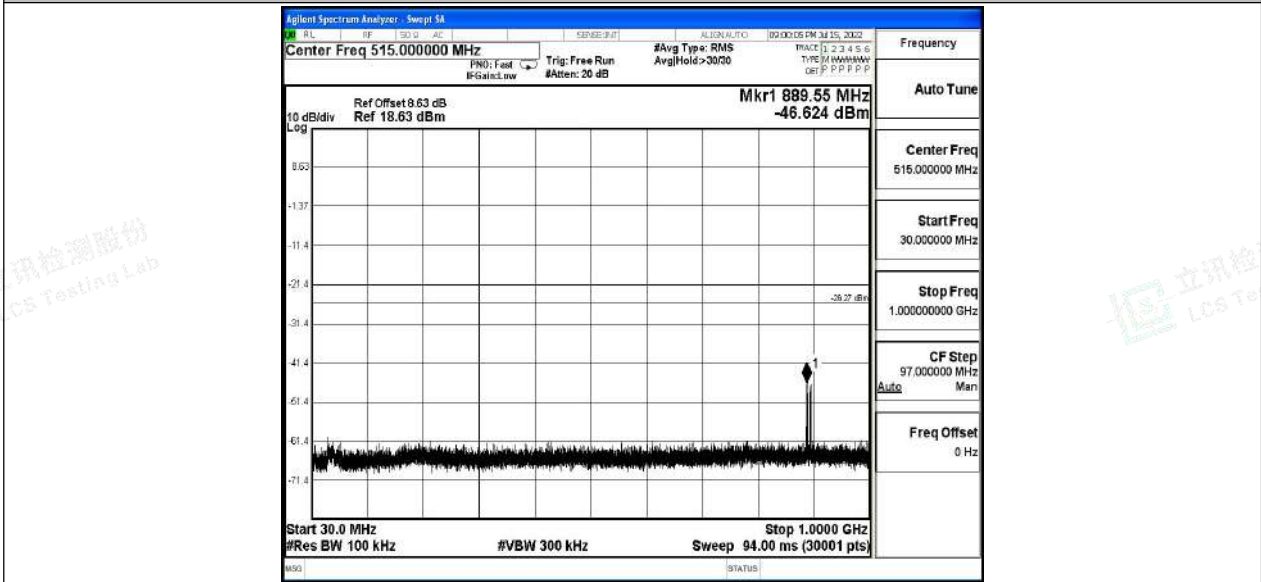
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500

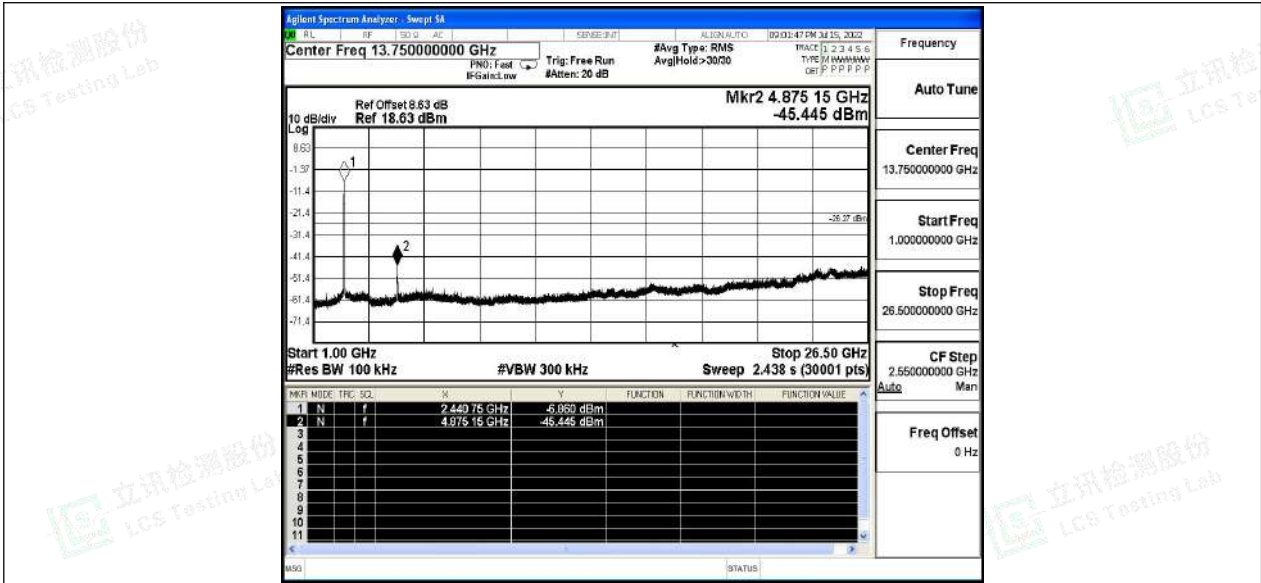


Shenzhen LCS Compliance Testing Laboratory Ltd.

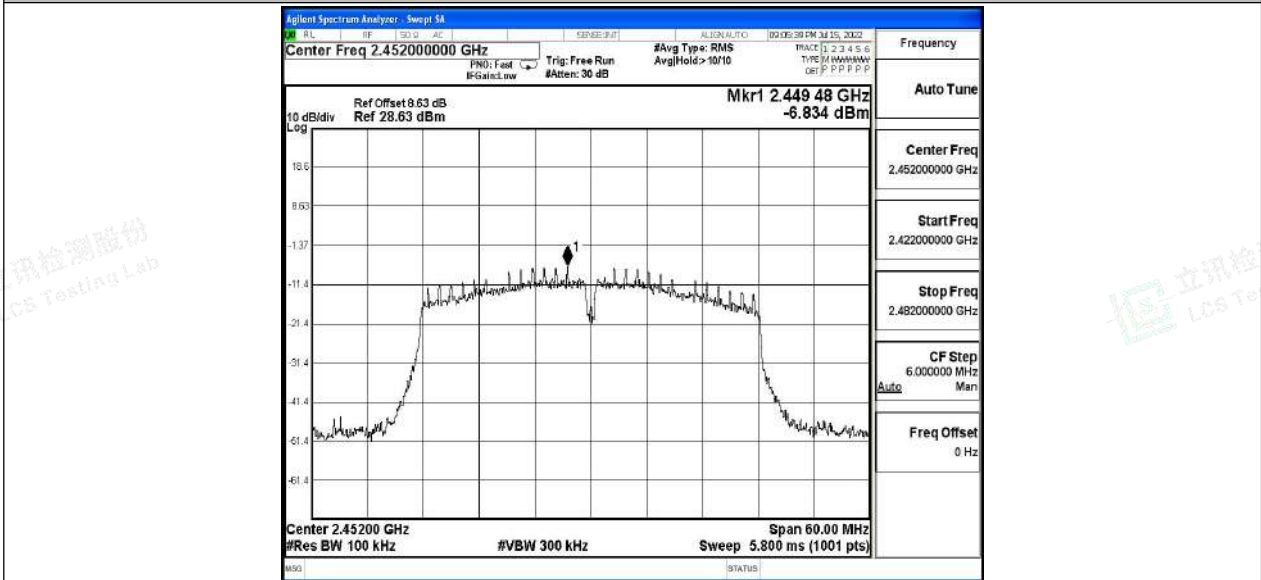
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000

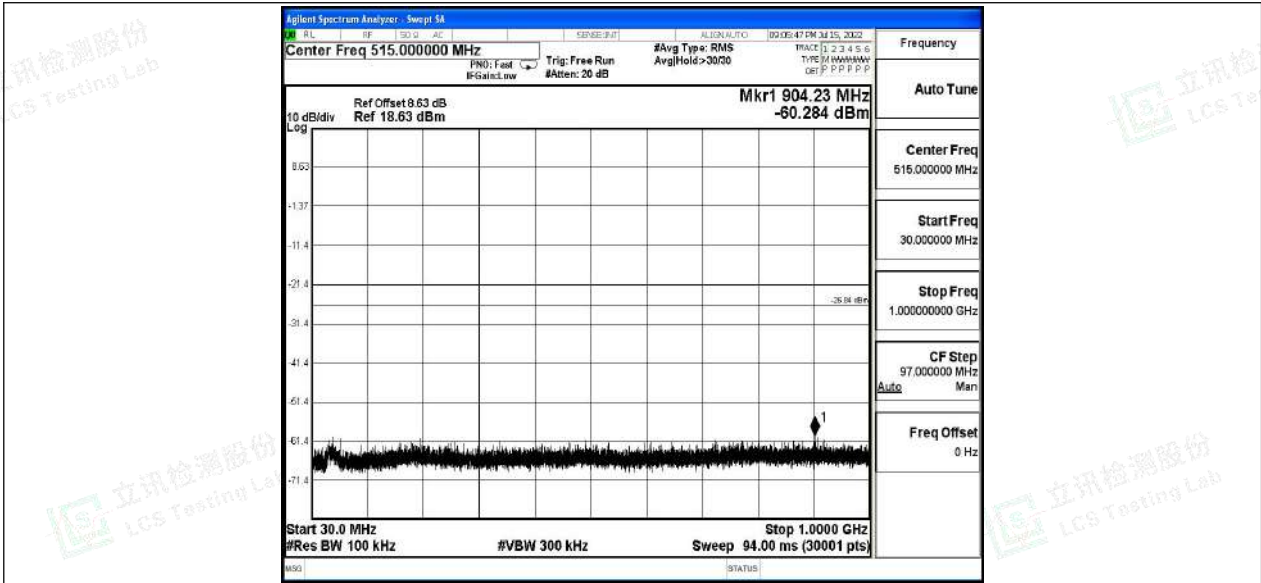


Shenzhen LCS Compliance Testing Laboratory Ltd.

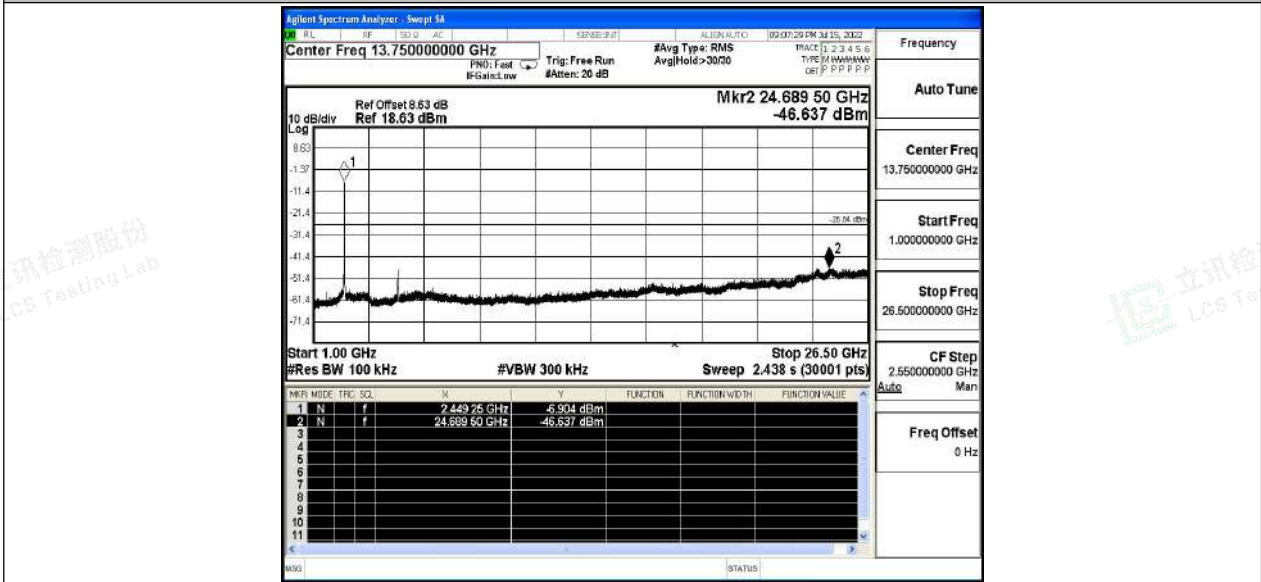
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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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 [%]	1/T (kHz)	Verdict
11B	Ant1	2412	8.38	8.40	99.76	0.01	---
		2437	8.39	8.40	99.88	0.01	---
		2462	8.39	8.40	99.88	0.01	---
11G	Ant1	2412	1.40	1.41	99.29	0.01	---
		2437	1.39	1.40	99.29	0.01	---
		2462	1.40	1.41	99.29	0.01	---
11N20SISO	Ant1	2412	1.30	1.31	99.24	0.01	---
		2437	1.30	1.31	99.24	0.01	---
		2462	1.30	1.31	99.24	0.01	---
11N40SISO	Ant1	2422	0.63	0.64	98.44	0.01	---
		2437	0.63	0.64	98.44	0.01	---
		2452	0.63	0.64	98.44	0.01	---



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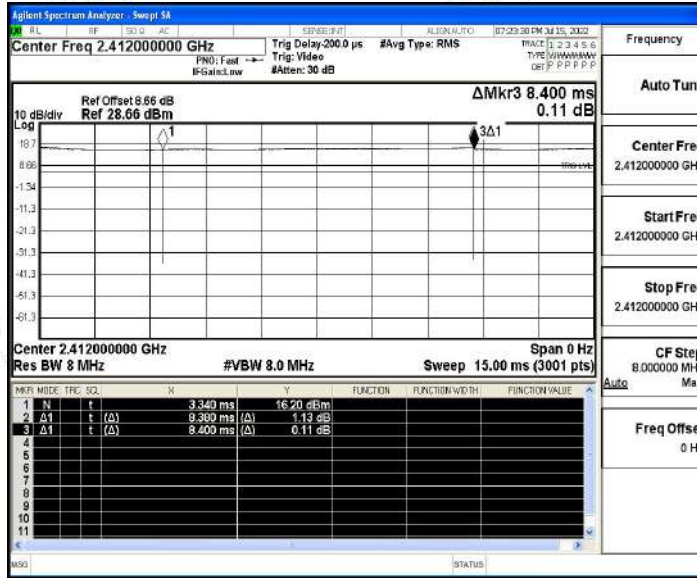
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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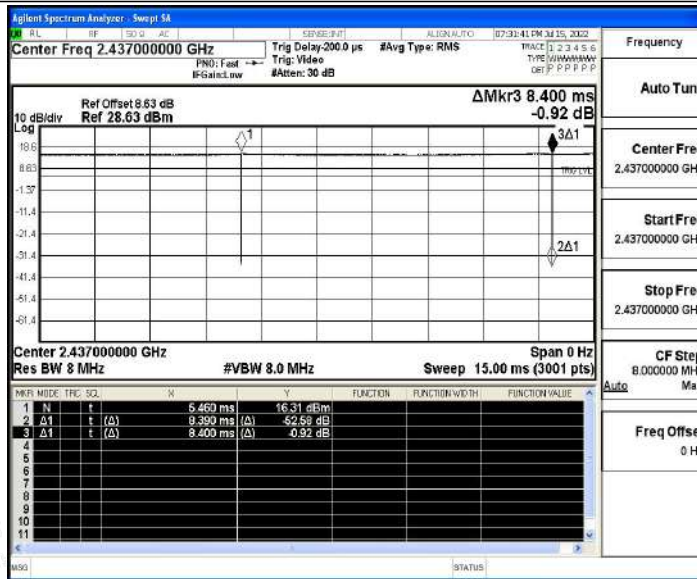


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

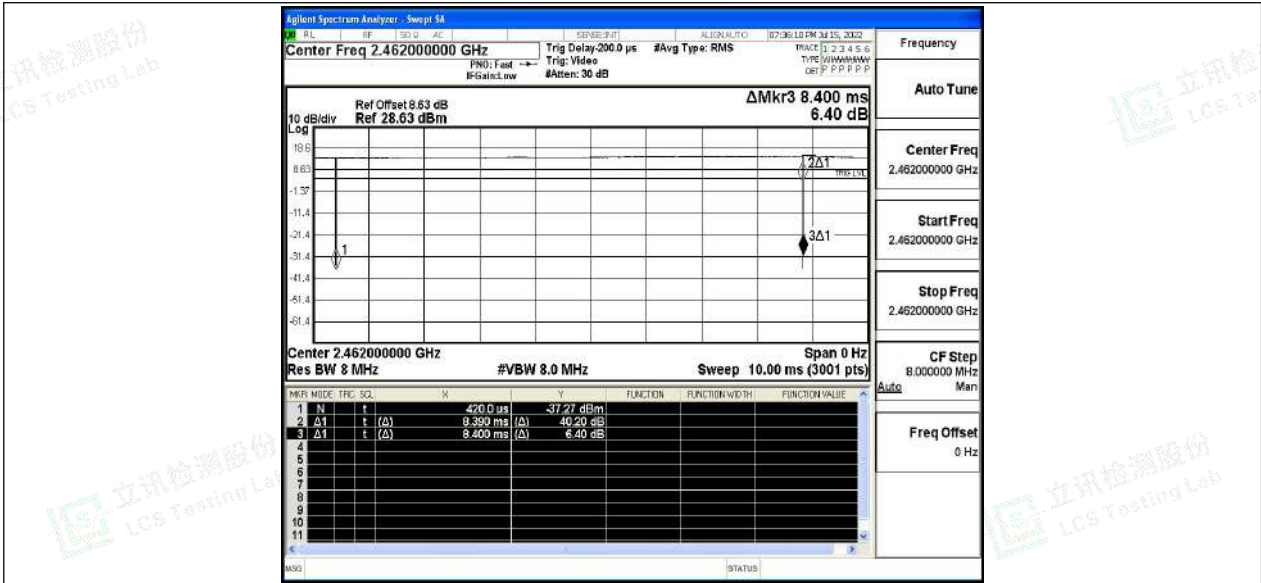


Shenzhen LCS Compliance Testing Laboratory Ltd.

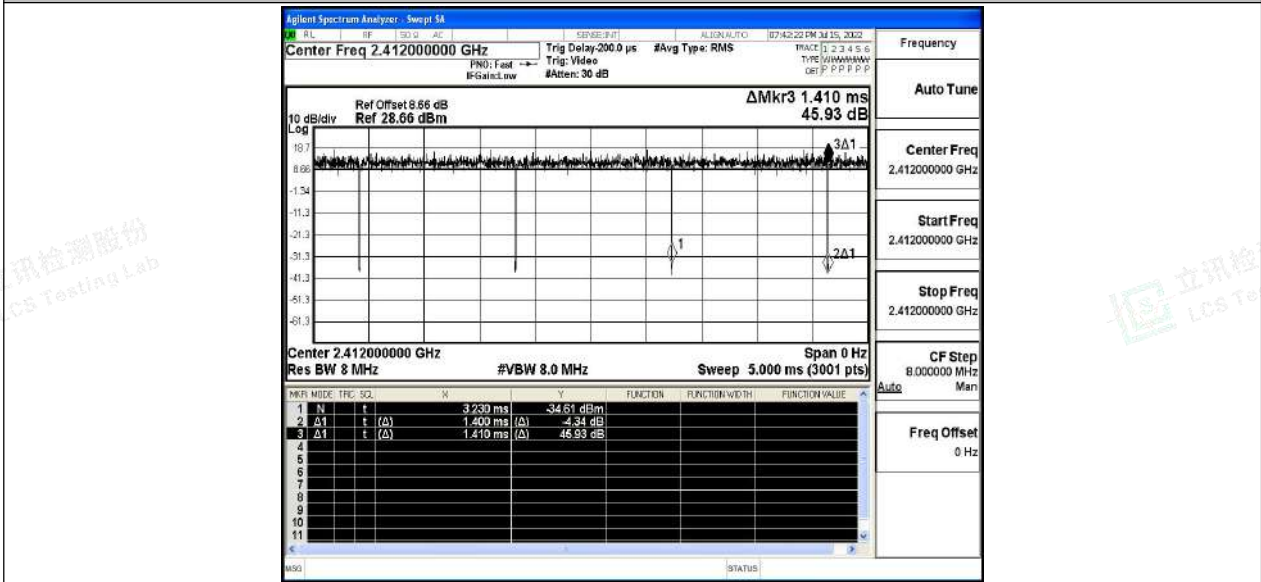
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2412



11G_Ant1_2437

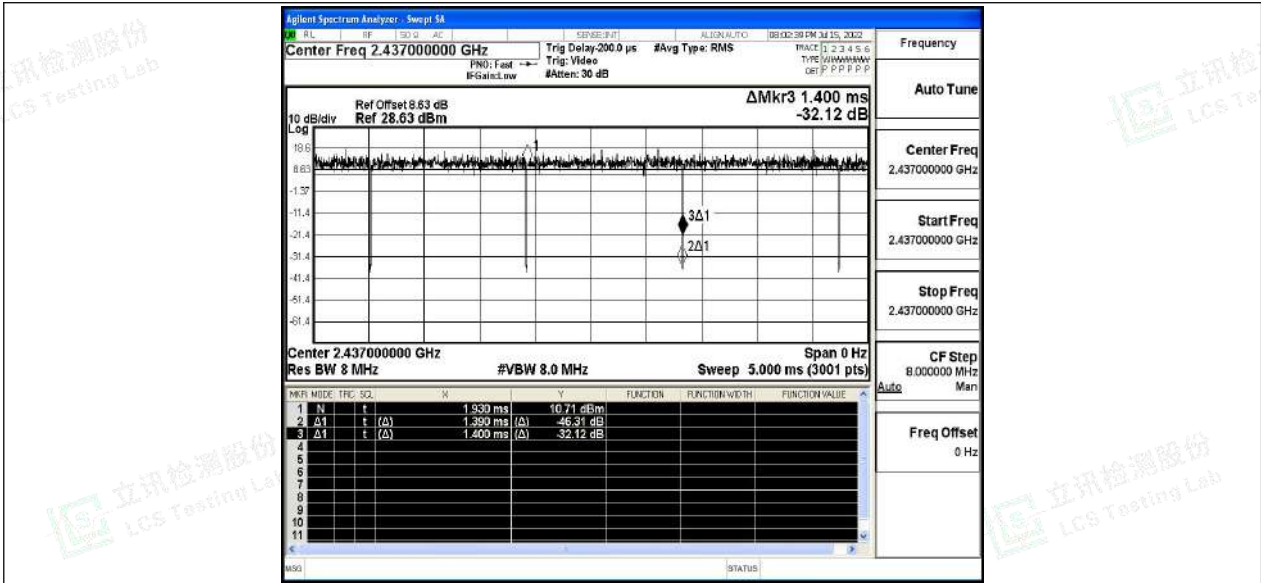


Shenzhen LCS Compliance Testing Laboratory Ltd.

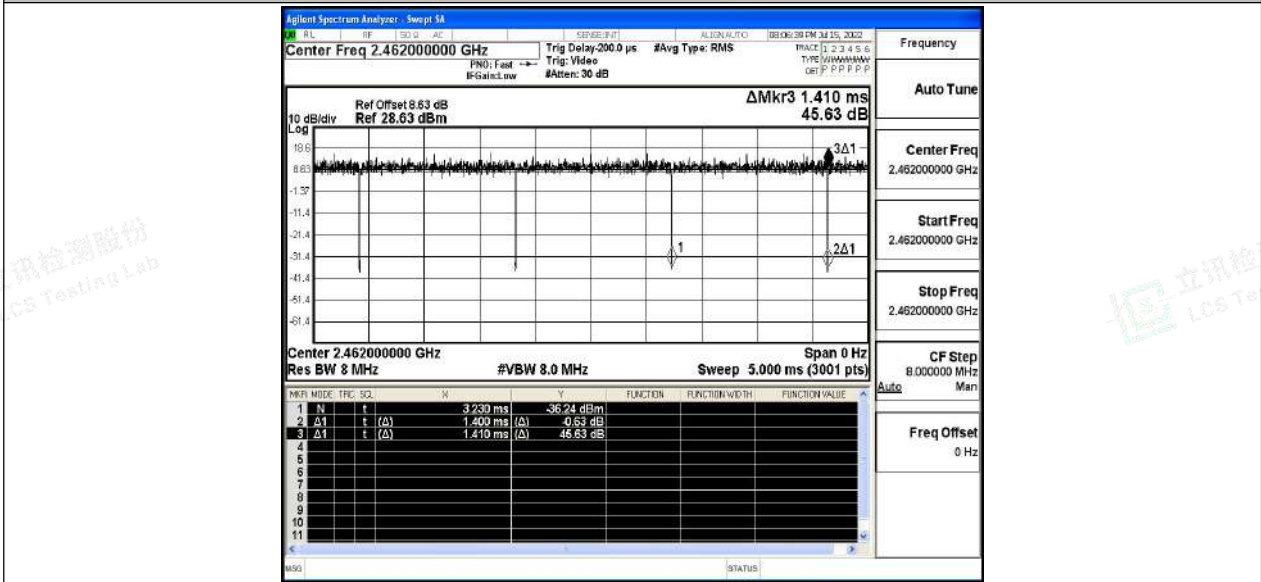
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_2462



11N20SISO_Ant1_2412

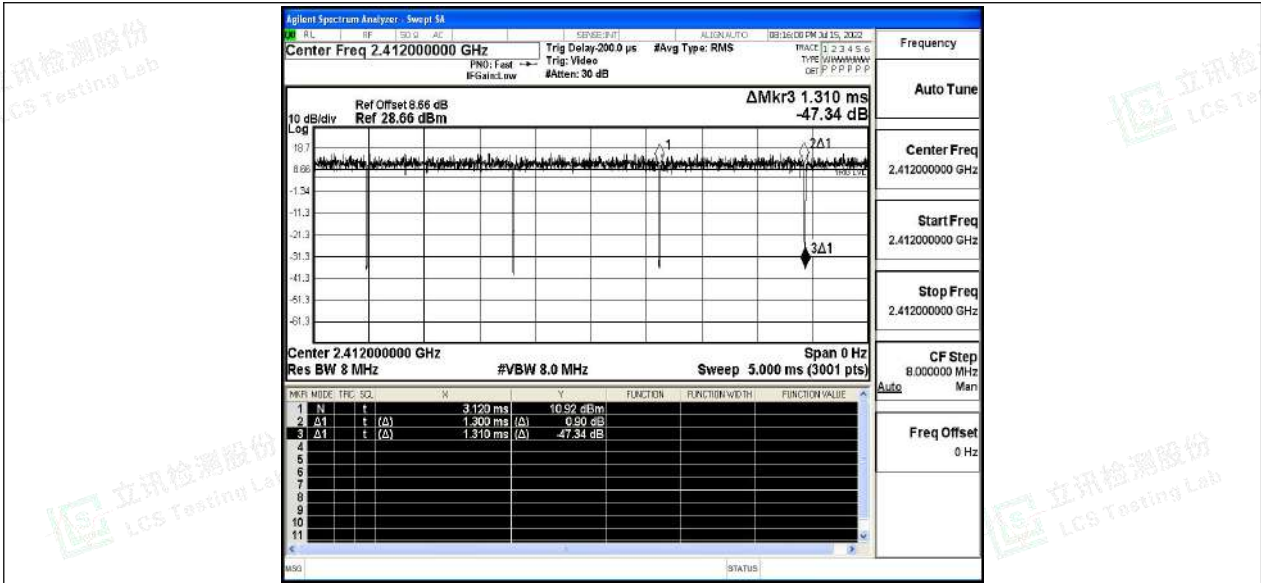


Shenzhen LCS Compliance Testing Laboratory Ltd.

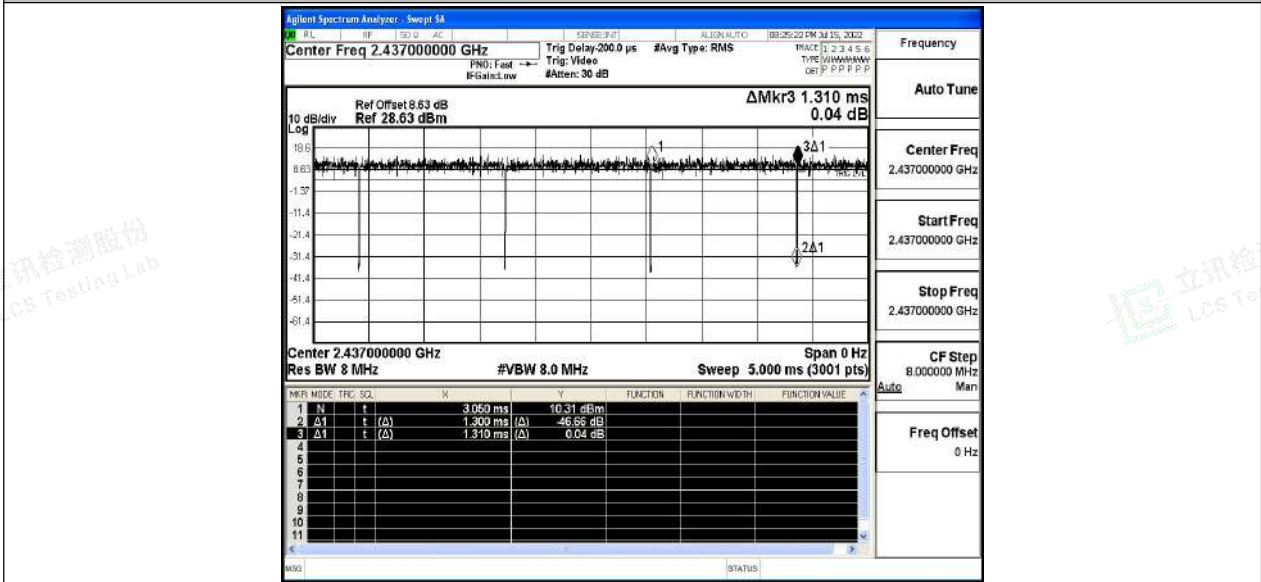
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

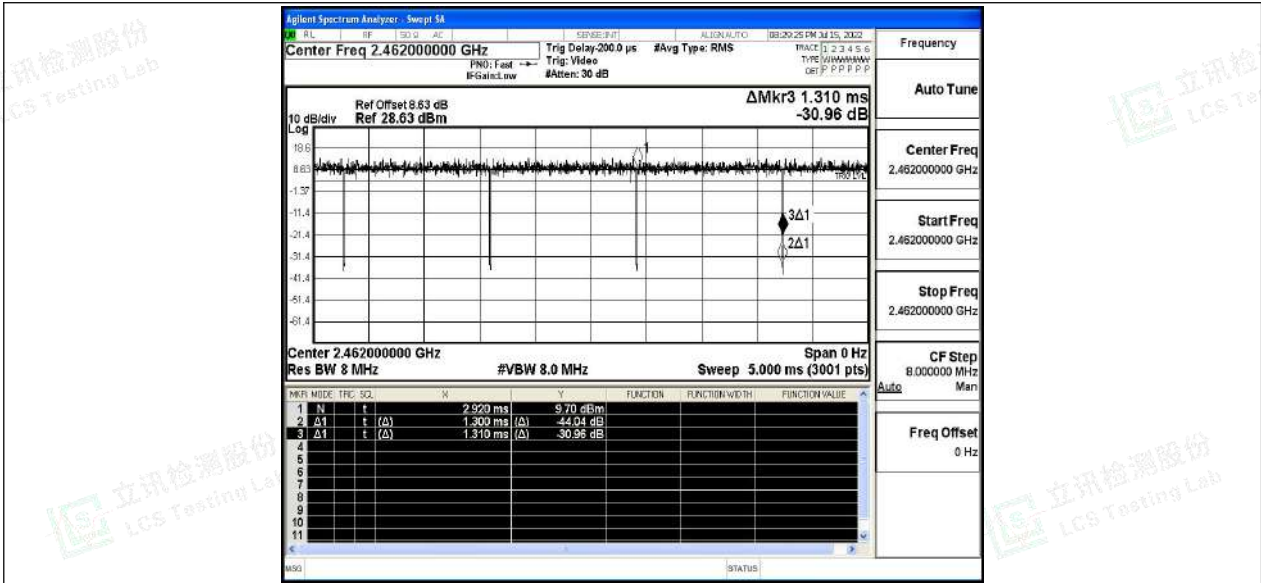


Shenzhen LCS Compliance Testing Laboratory Ltd.

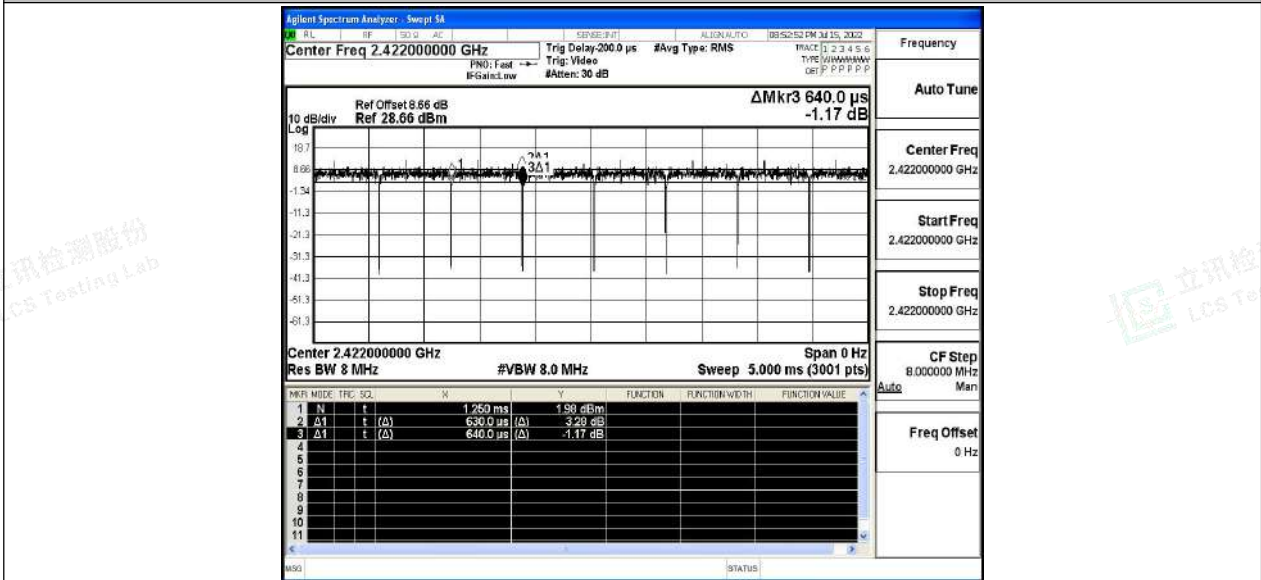
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

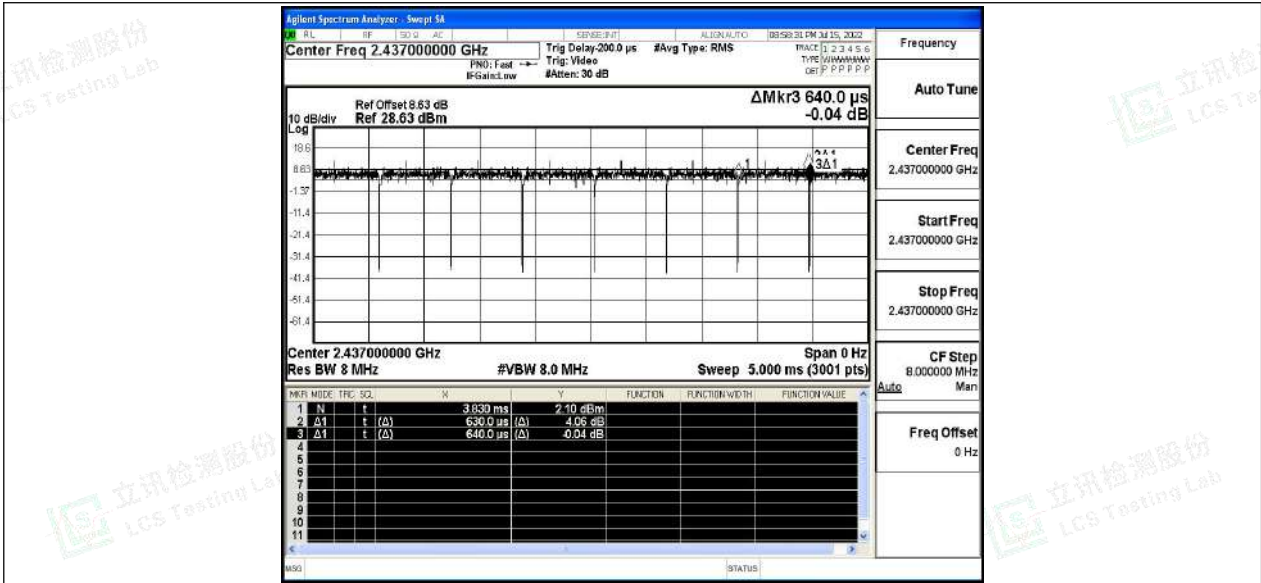


Shenzhen LCS Compliance Testing Laboratory Ltd.

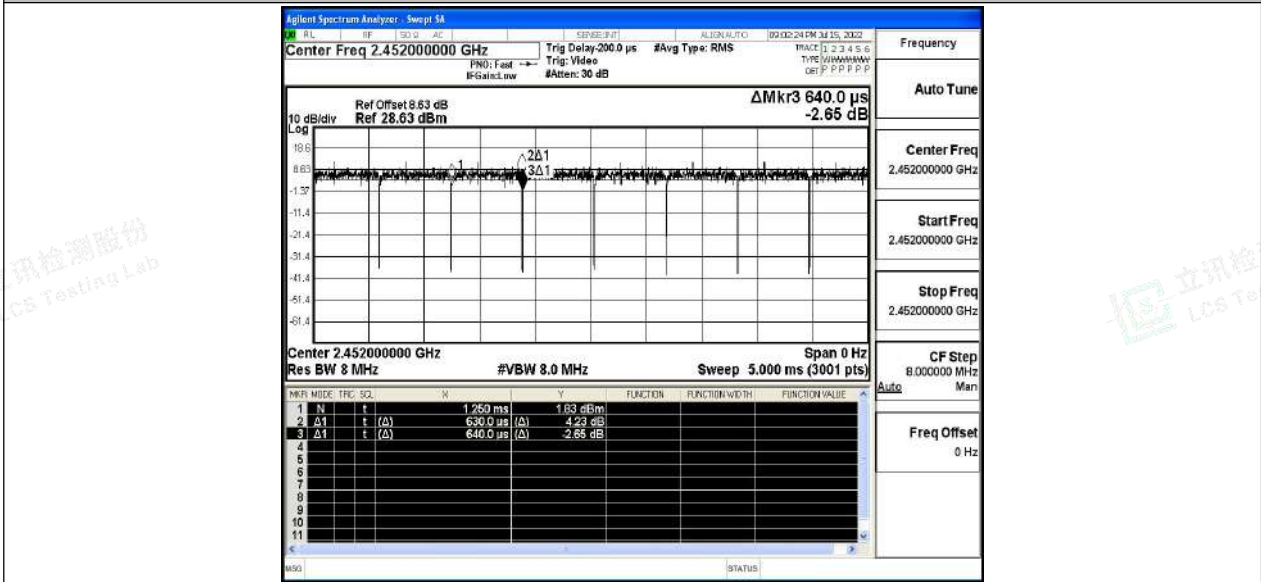
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_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	-57.44	≤-41.20	37.76	≤54	PASS
				AV	2386.450	-50.9	≤-41.20	44.30	≤54	PASS
				AV	2390.000	-53.4	≤-41.20	41.80	≤54	PASS
				Peak	2310.000	-46.37	≤-21.20	48.83	≤74	PASS
				Peak	2386.190	-41.05	≤-21.20	54.15	≤74	PASS
				Peak	2390.000	-43.27	≤-21.20	51.93	≤74	PASS
		High	2462	AV	2483.500	-55.85	≤-41.20	39.35	≤54	PASS
				AV	2486.310	-55.28	≤-41.20	39.92	≤54	PASS
				AV	2500.000	-56.41	≤-41.20	38.79	≤54	PASS
				Peak	2483.500	-45.06	≤-21.20	50.14	≤74	PASS
				Peak	2485.760	-43.72	≤-21.20	51.48	≤74	PASS
				Peak	2500.000	-45.57	≤-21.20	49.63	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-55.89	≤-41.20	39.31	≤54	PASS
				AV	2389.700	-52.98	≤-41.20	42.22	≤54	PASS
				AV	2390.000	-53.06	≤-41.20	42.14	≤54	PASS
				Peak	2310.000	-45.29	≤-21.20	49.91	≤74	PASS
				Peak	2389.960	-39.6	≤-21.20	55.60	≤74	PASS
				Peak	2390.000	-39.6	≤-21.20	55.60	≤74	PASS
		High	2462	AV	2483.500	-57.7	≤-41.20	37.50	≤54	PASS
				AV	2498.190	-57.34	≤-41.20	37.86	≤54	PASS
				AV	2500.000	-57.39	≤-41.20	37.81	≤54	PASS
				Peak	2483.500	-44.56	≤-21.20	50.64	≤74	PASS
				Peak	2499.840	-43.3	≤-21.20	51.90	≤74	PASS
				Peak	2500.000	-45.38	≤-21.20	49.82	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-55.99	≤-41.20	39.21	≤54	PASS
				AV	2389.960	-53.22	≤-41.20	41.98	≤54	PASS
				AV	2390.000	-53.22	≤-41.20	41.98	≤54	PASS
				Peak	2310.000	-46.05	≤-21.20	49.15	≤74	PASS
				Peak	2388.660	-40.11	≤-21.20	55.09	≤74	PASS
				Peak	2390.000	-40.62	≤-21.20	54.58	≤74	PASS
		High	2462	AV	2483.500	-55.54	≤-41.20	39.66	≤54	PASS
				AV	2483.780	-55.38	≤-41.20	39.82	≤54	PASS
				AV	2500.000	-55.8	≤-41.20	39.40	≤54	PASS
				Peak	2483.500	-43.98	≤-21.20	51.22	≤74	PASS
				Peak	2486.640	-43.94	≤-21.20	51.26	≤74	PASS
				Peak	2500.000	-44.6	≤-21.20	50.60	≤74	PASS



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11N40SISO	Ant1	Low	2422	AV	2310.000	-56.01	≤-41.20	39.19	≤54	PASS
				AV	2389.830	-48.69	≤-41.20	46.51	≤54	PASS
				AV	2390.000	-48.87	≤-41.20	46.33	≤54	PASS
				Peak	2310.000	-45.65	≤-21.20	49.55	≤74	PASS
				Peak	2388.660	-30.65	≤-21.20	64.55	≤74	PASS
				Peak	2390.000	-30.85	≤-21.20	64.35	≤74	PASS
	High	2452	AV	2483.500	-50.6	≤-41.20	44.60	≤54	PASS	
			AV	2484.110	-50.13	≤-41.20	45.07	≤54	PASS	
			AV	2500.000	-55.76	≤-41.20	39.44	≤54	PASS	
			Peak	2483.500	-40.74	≤-21.20	54.46	≤74	PASS	
			Peak	2484.110	-39.3	≤-21.20	55.90	≤74	PASS	
			Peak	2500.000	-45.94	≤-21.20	49.26	≤74	PASS	

Note:

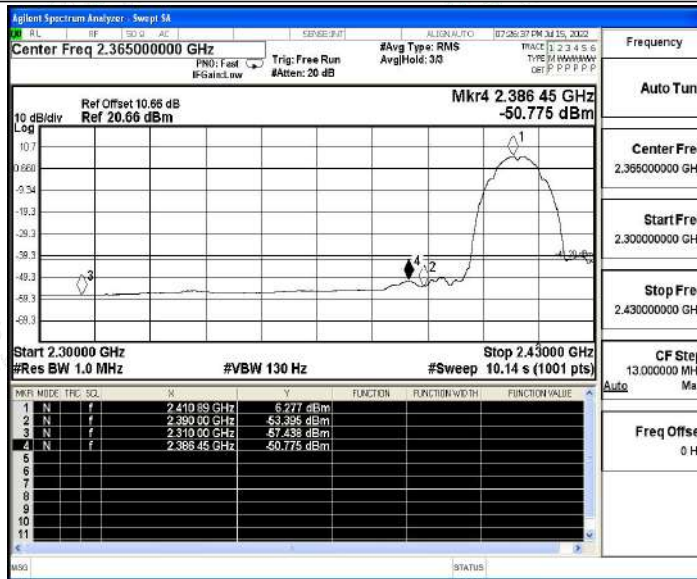
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



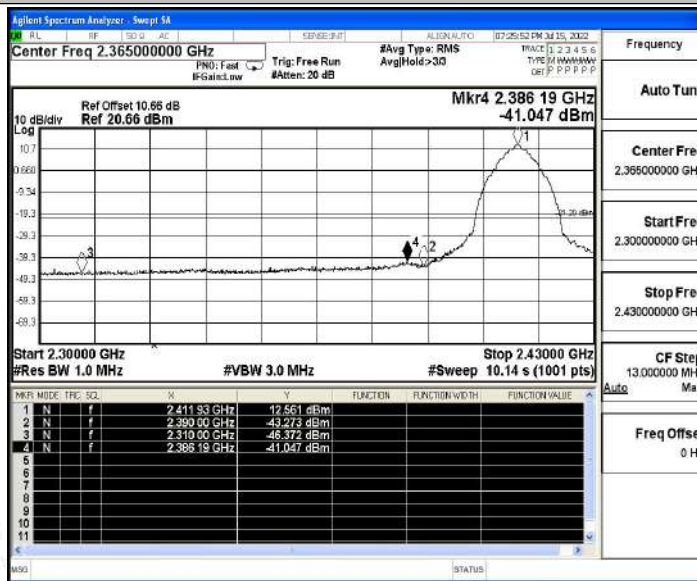


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



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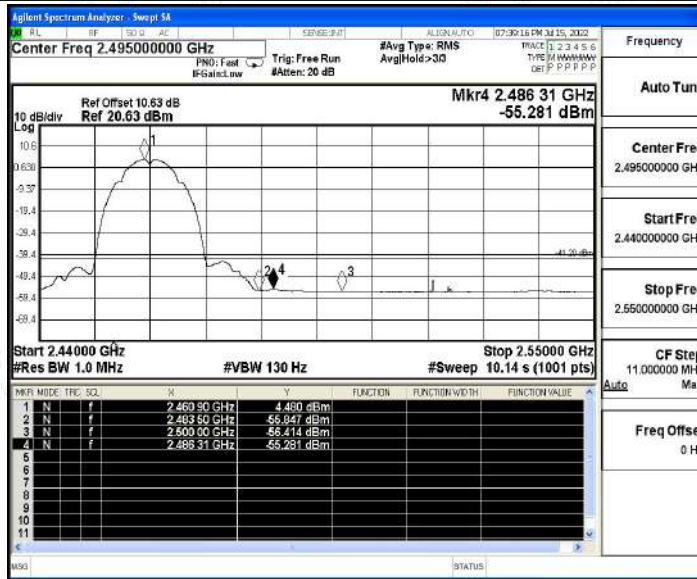
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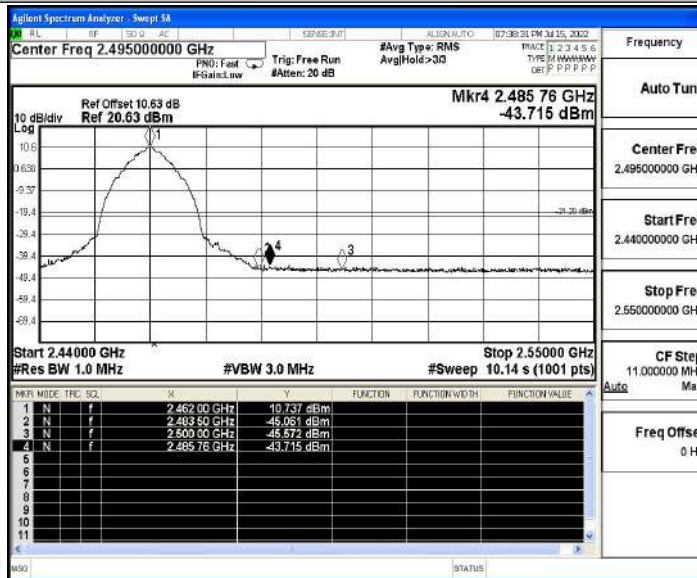
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11B_Ant1_High_2462_AV



11B_Ant1_High_2462_Peak



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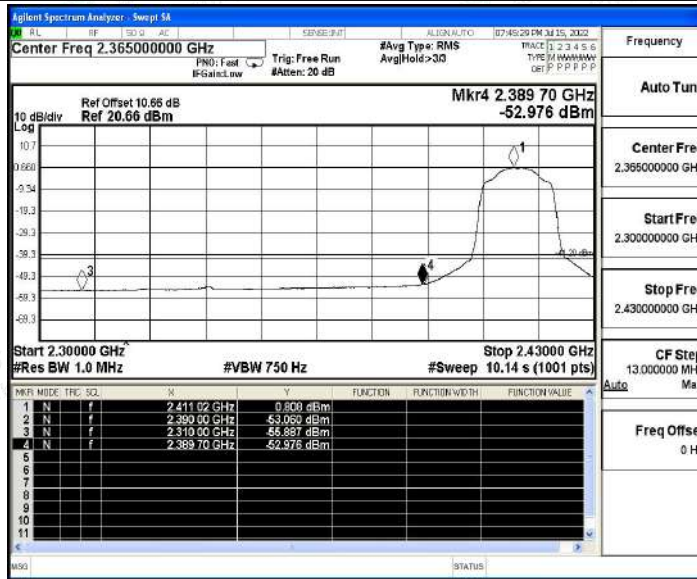
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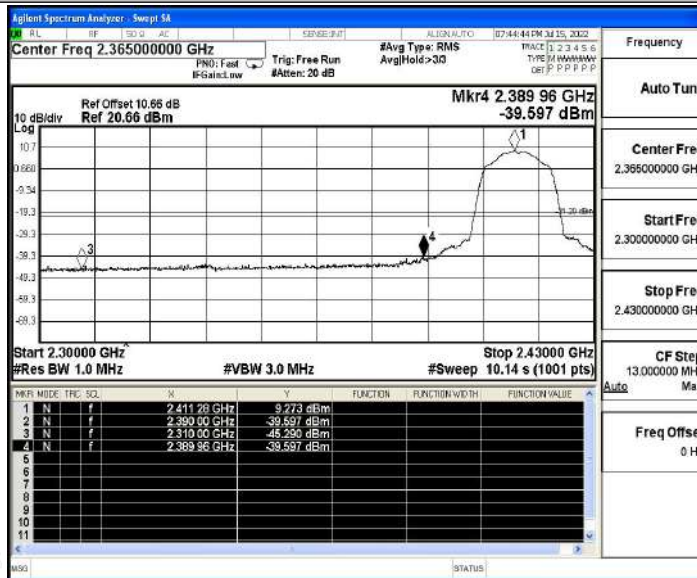
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11G_Ant1_Low_2412_AV



11G_Ant1_Low_2412_Peak



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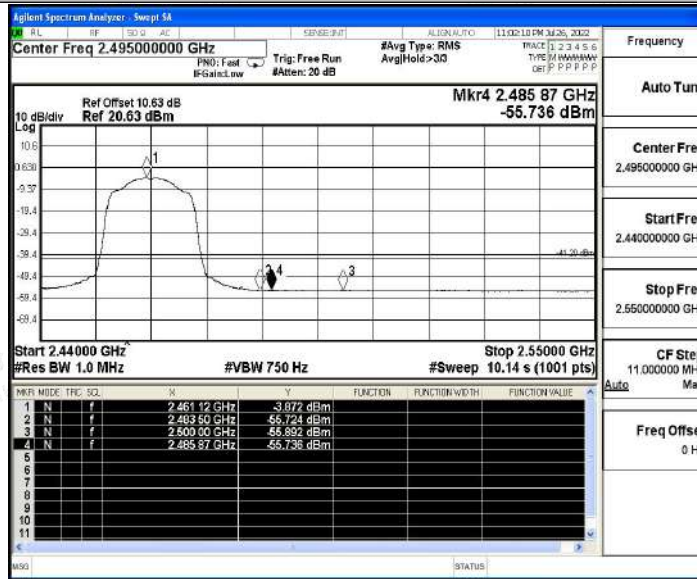
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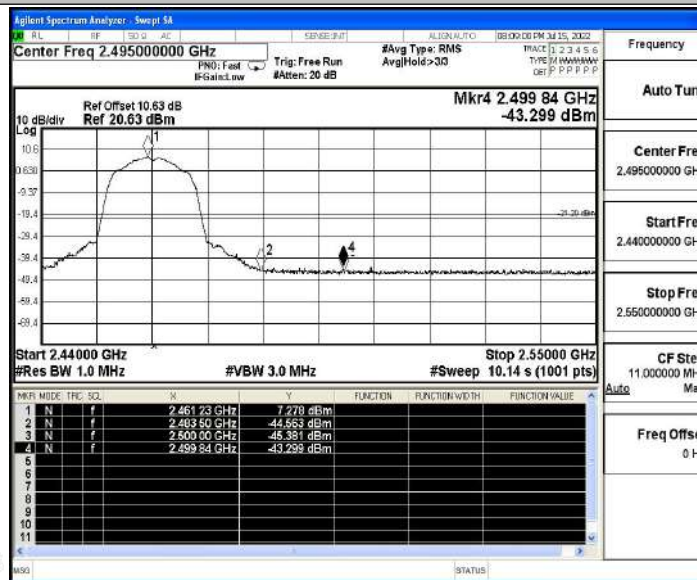
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11G_Ant1_High_2462_AV



11G_Ant1_High_2462_Peak



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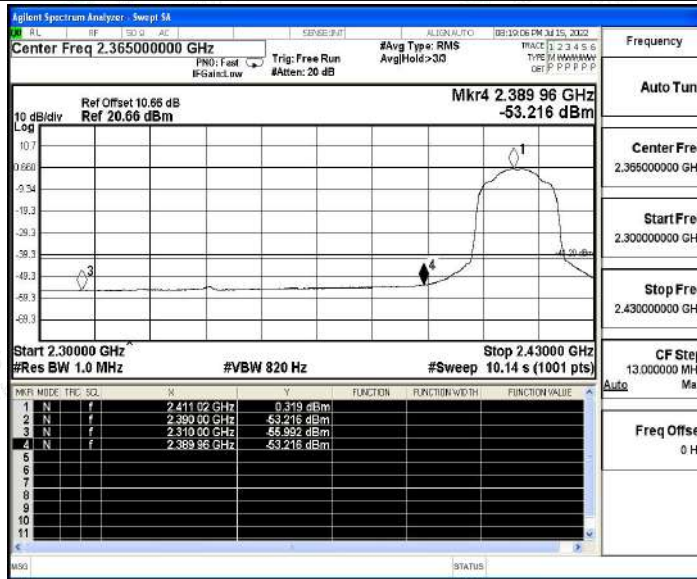
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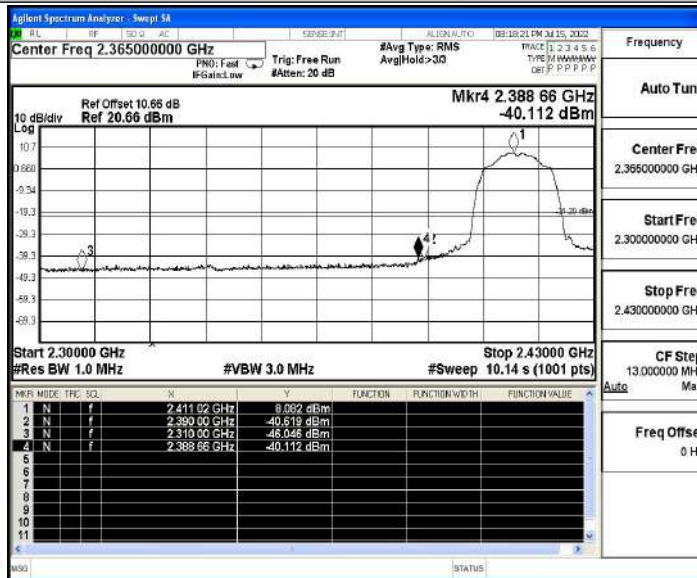
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11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



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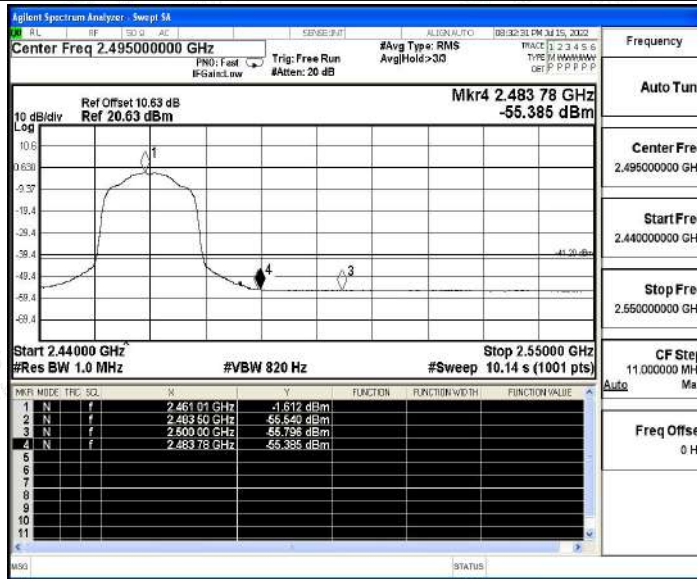
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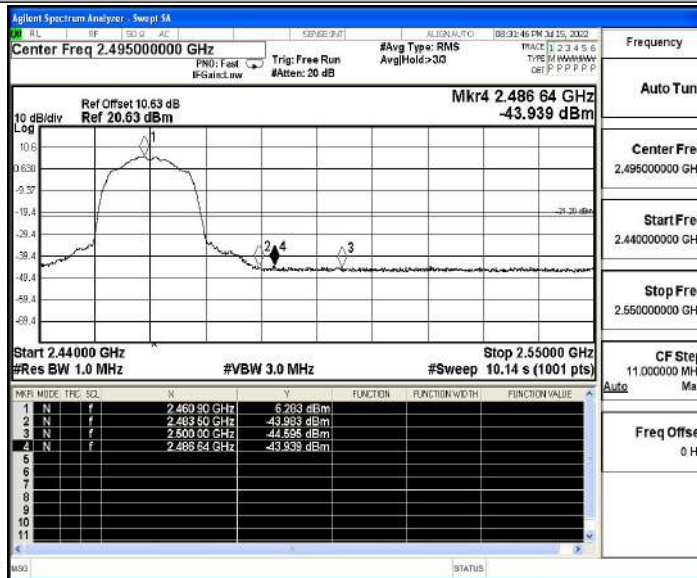
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11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak



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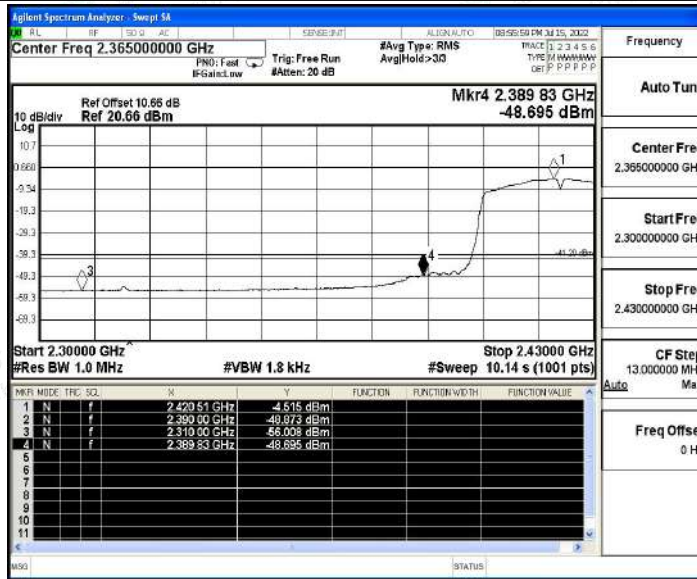
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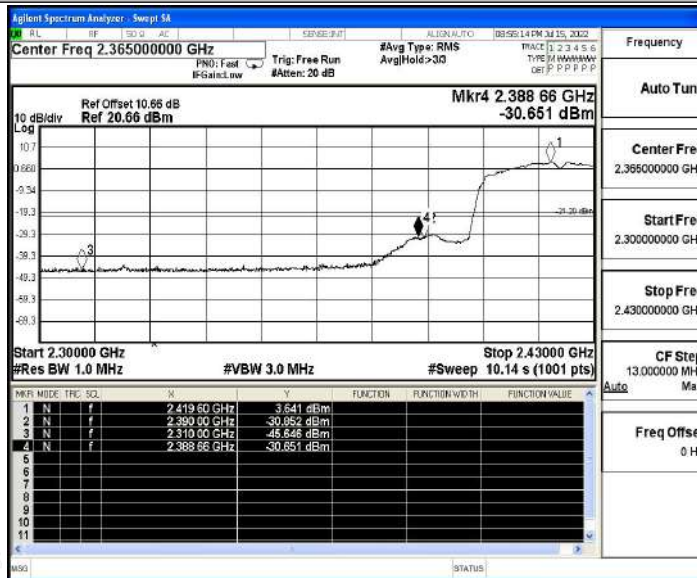
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11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



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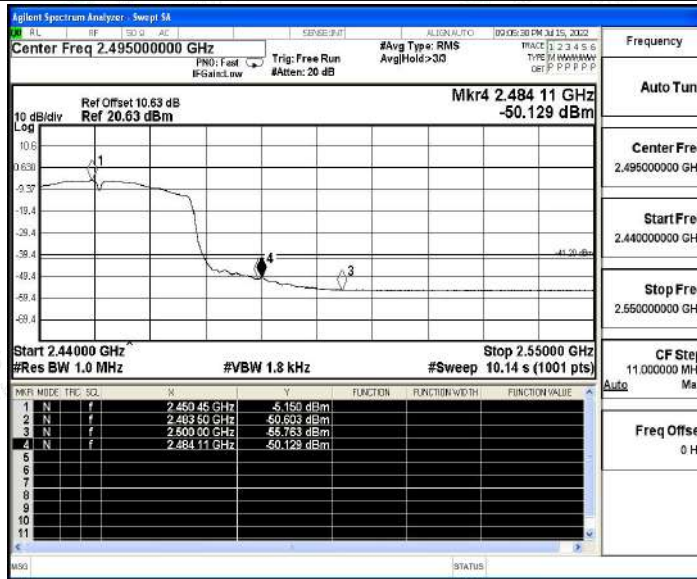
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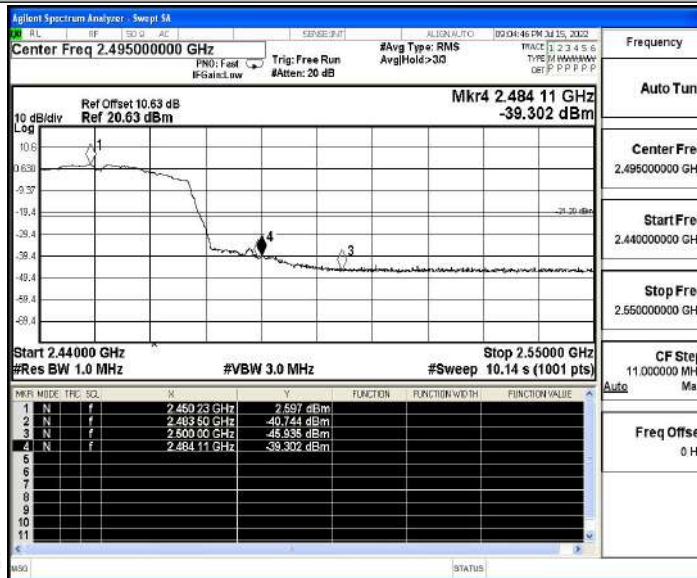
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11N40SISO_Ant1_High_2452_AV



11N40SISO_Ant1_High_2452_Peak



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