



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: AMD R1505G Player

Test Model: SMPA-R1505G

Environmental Conditions

Temperature:	21.1 °C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan





C.1 6dB Bandwidth

Test Result

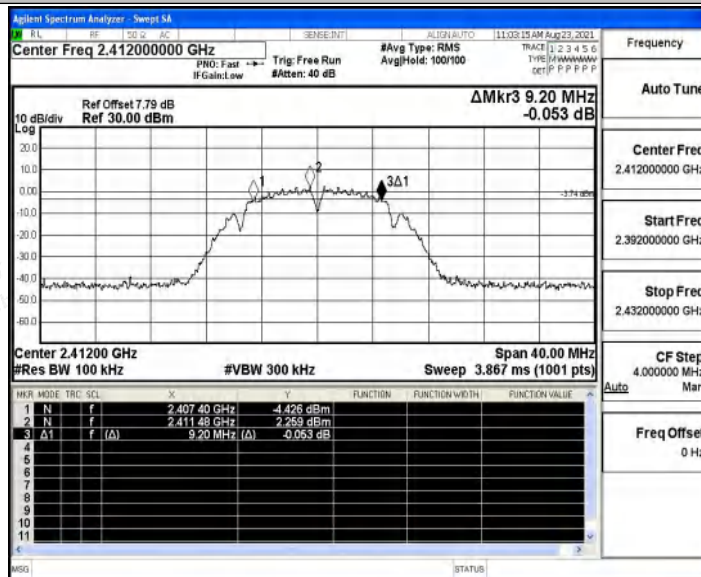
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.200	2407.400	2416.600	0.5	PASS
		2437	9.160	2432.440	2441.600	0.5	PASS
		2462	9.480	2457.080	2466.560	0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
		2437	16.120	2429.080	2445.200	0.5	PASS
		2462	16.160	2453.680	2469.840	0.5	PASS
11N20SISO	Ant1	2412	17.880	2403.080	2420.960	0.5	PASS
		2437	17.800	2428.160	2445.960	0.5	PASS
		2462	17.800	2453.040	2470.840	0.5	PASS
11N40SISO	Ant1	2422	36.560	2403.760	2440.320	0.5	PASS
		2437	36.560	2418.760	2455.320	0.5	PASS
		2452	36.080	2433.760	2469.840	0.5	PASS



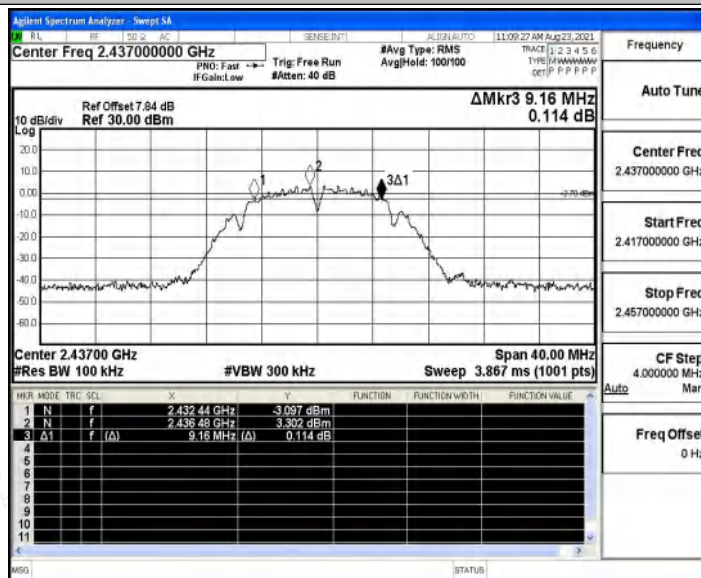


Test Graphs

11B_Ant1_2412

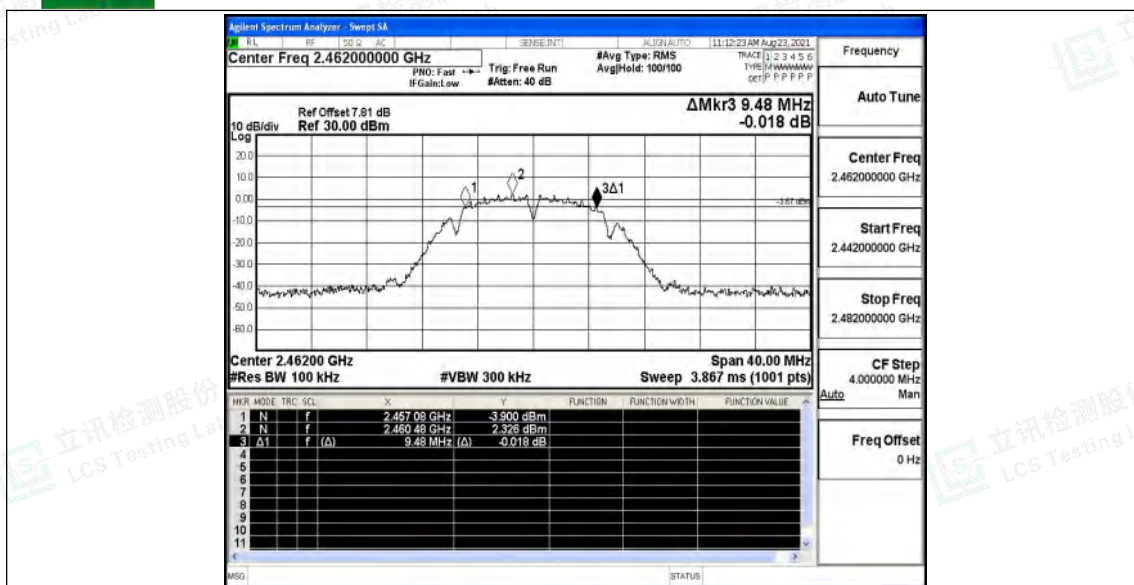


11B_Ant1_2437

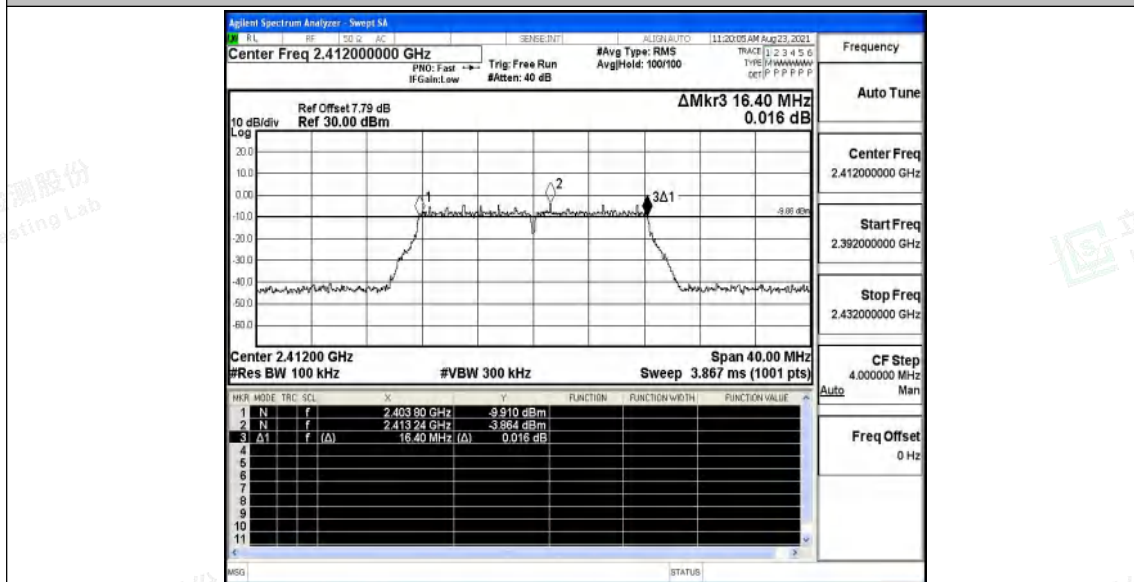


11B_Ant1_2462



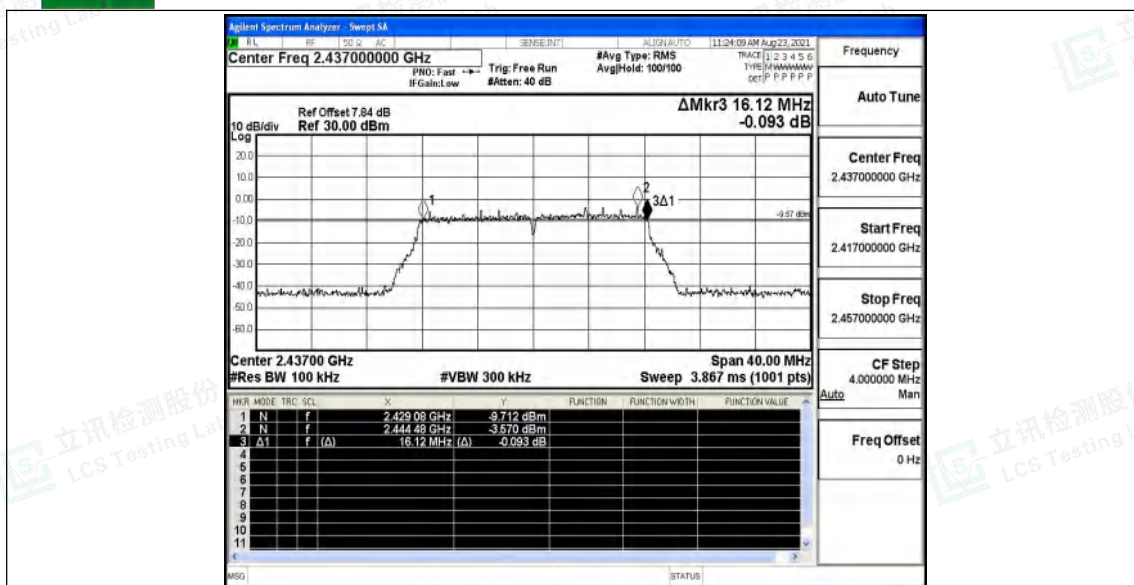


11G_Ant1_2412

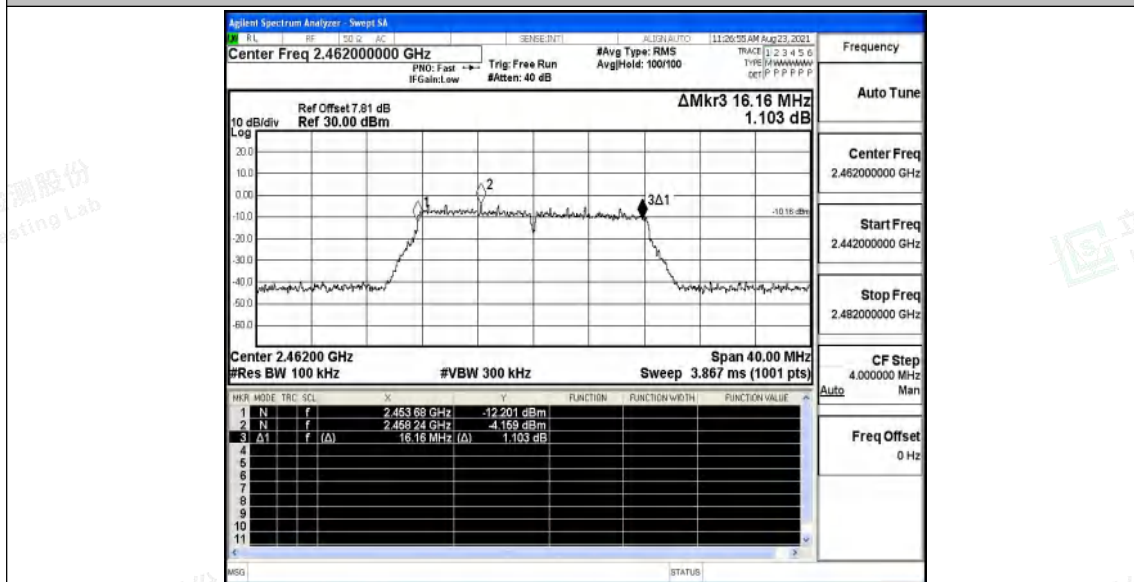


11G_Ant1_2437





11G_Ant1_2462



11N20SISO_Ant1_2412

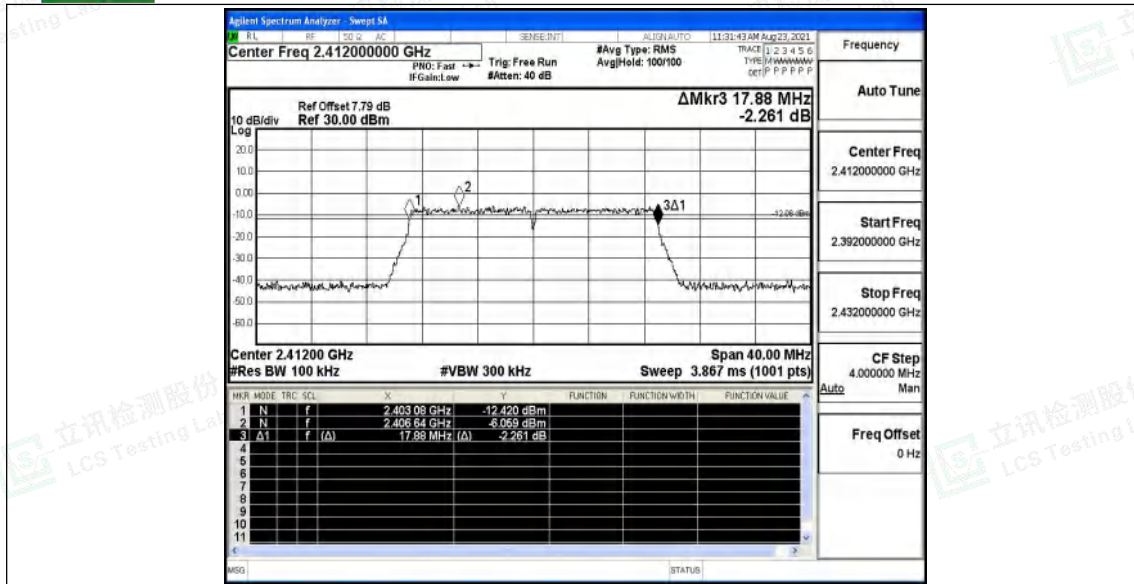


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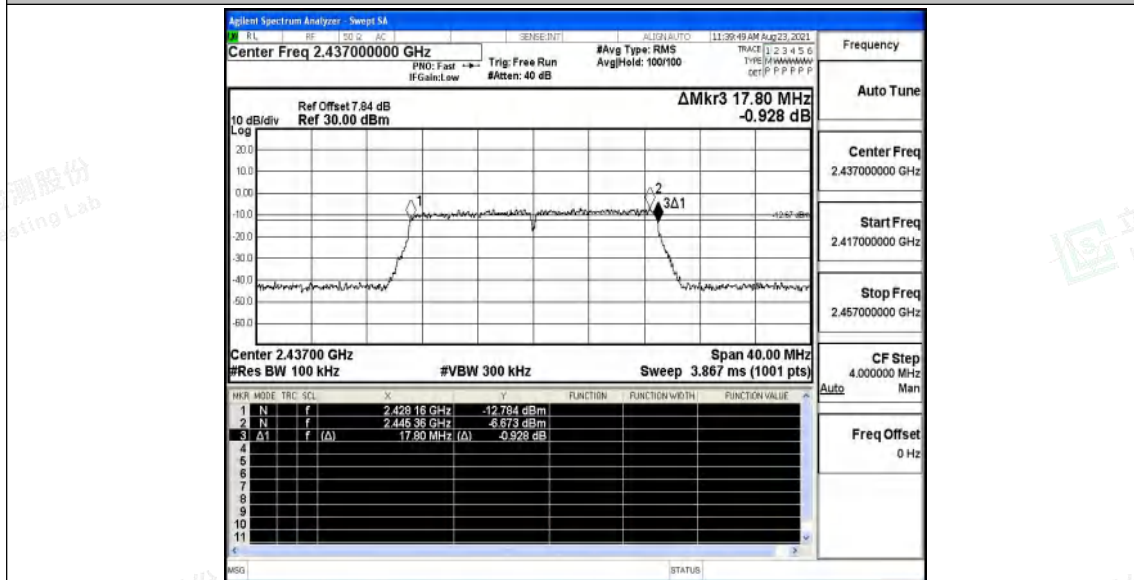
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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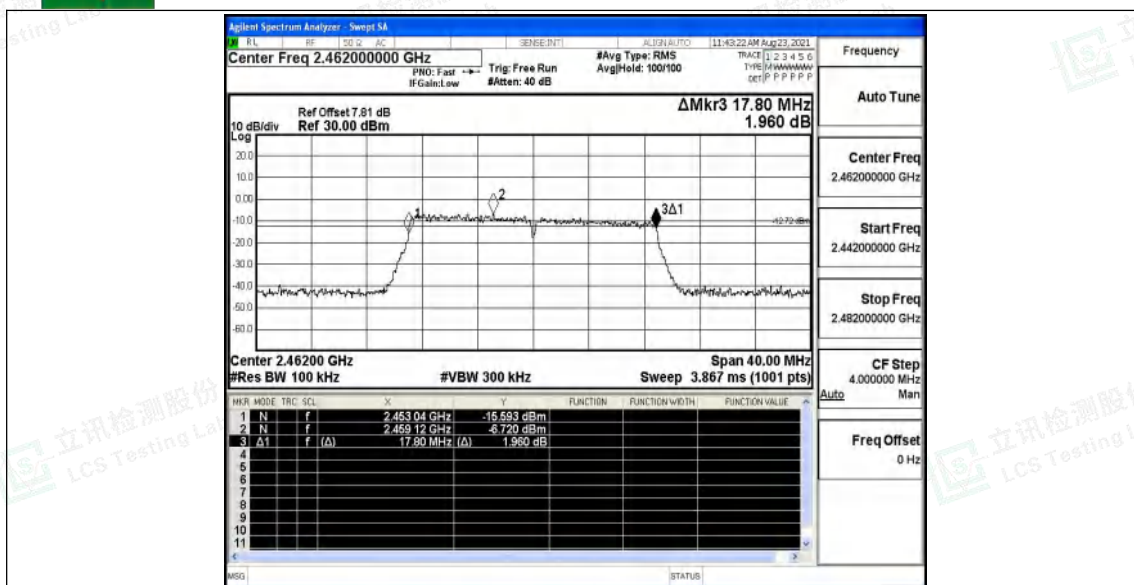


11N20SISO_Ant1_2437

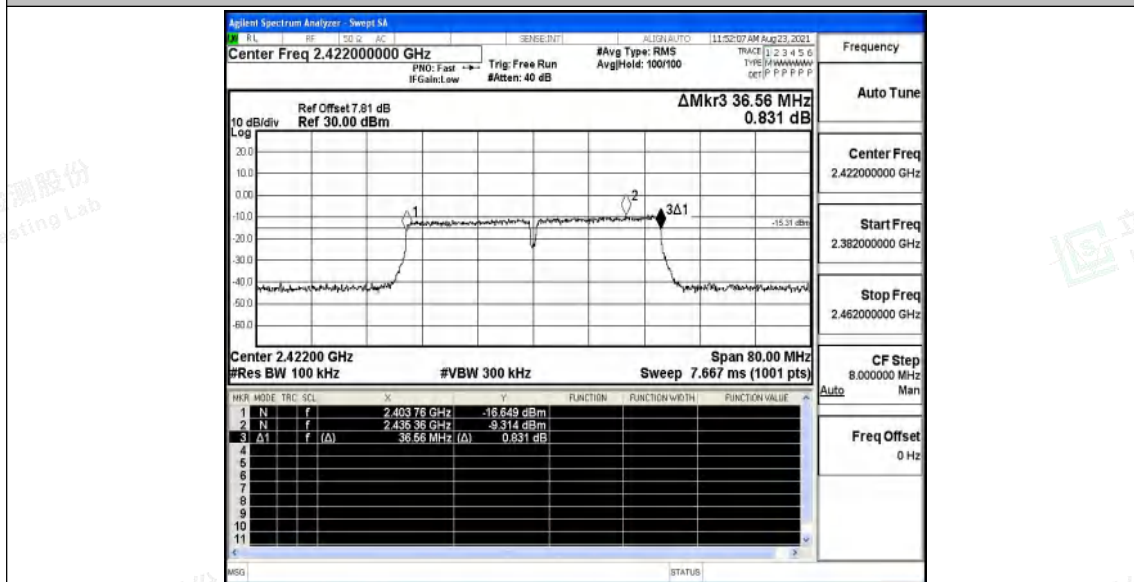


11N20SISO_Ant1_2462





11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

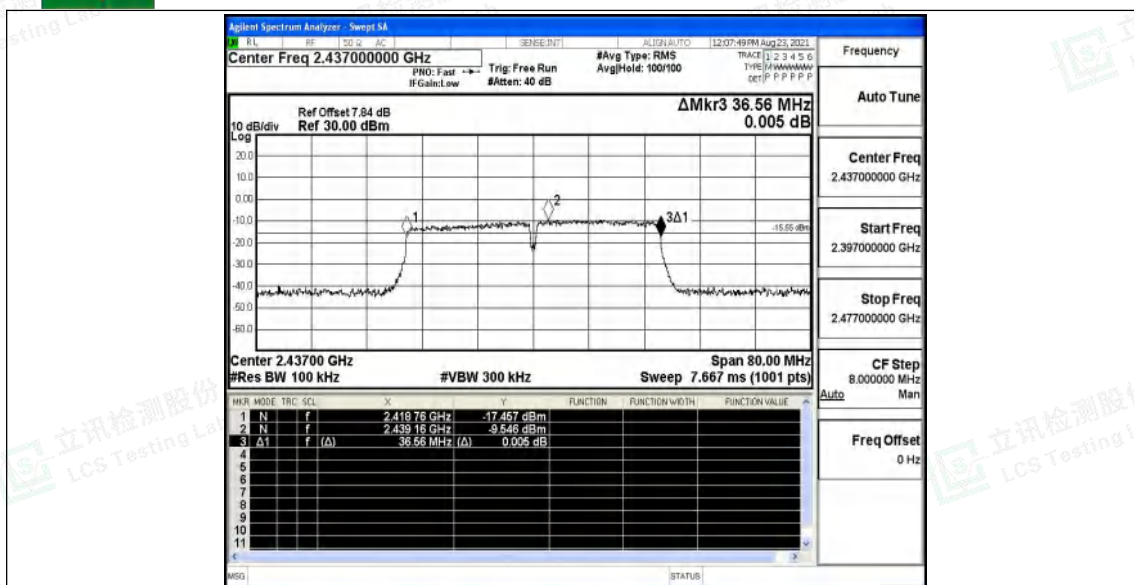


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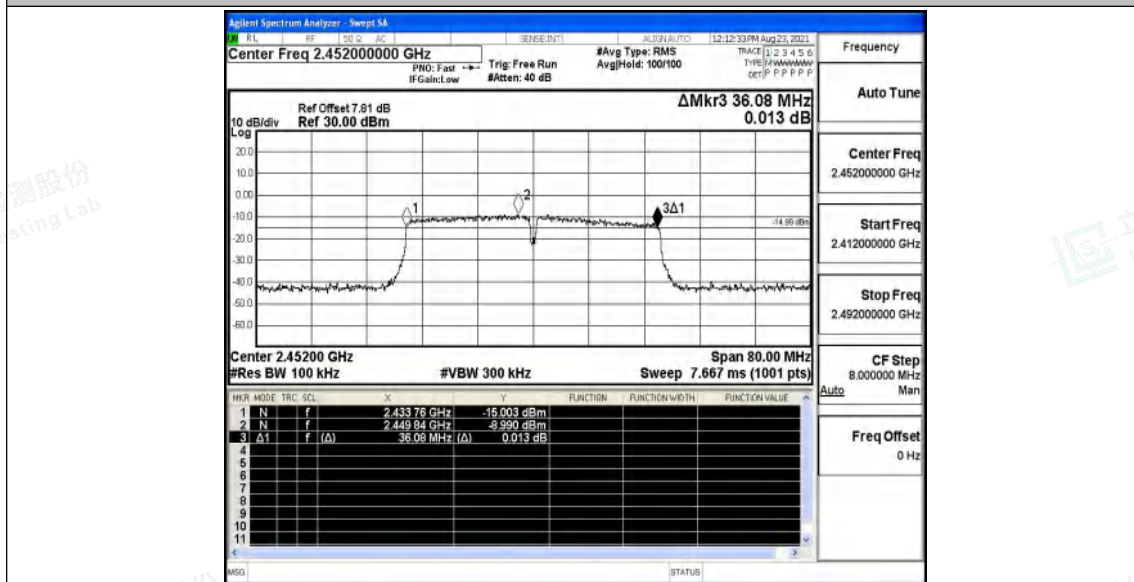
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11N40SISO_Ant1_2452





C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.21	≤30	PASS
		2437	16.30	≤30	PASS
		2462	15.26	≤30	PASS
11G	Ant1	2412	14.66	≤30	PASS
		2437	14.68	≤30	PASS
		2462	14.38	≤30	PASS
11N20SISO	Ant1	2412	14.73	≤30	PASS
		2437	14.55	≤30	PASS
		2462	14.43	≤30	PASS
11N40SISO	Ant1	2422	14.24	≤30	PASS
		2437	14.52	≤30	PASS
		2452	14.70	≤30	PASS





C.3 Maximum power spectral density

Test Result

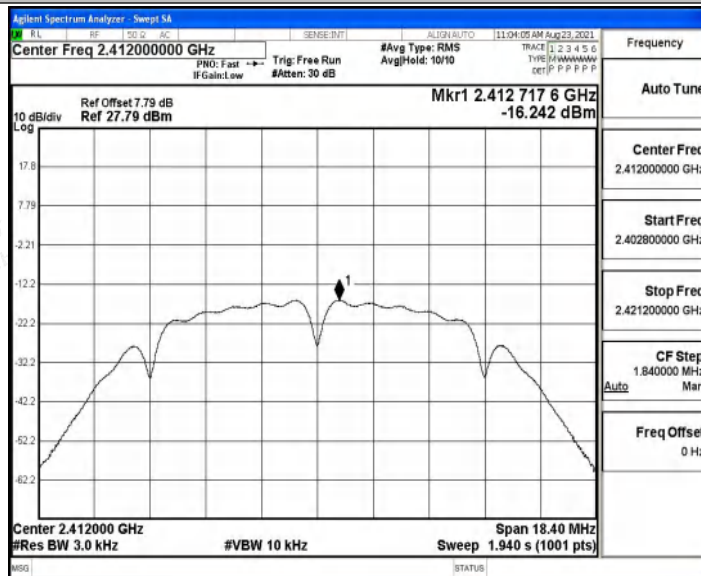
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.24	≤8	PASS
		2437	-15.09	≤8	PASS
		2462	-16.07	≤8	PASS
11G	Ant1	2412	-16.92	≤8	PASS
		2437	-17.93	≤8	PASS
		2462	-17.82	≤8	PASS
11N20SISO	Ant1	2412	-19.71	≤8	PASS
		2437	-20.83	≤8	PASS
		2462	-19.73	≤8	PASS
11N40SISO	Ant1	2422	-20.78	≤8	PASS
		2437	-21	≤8	PASS
		2452	-21.22	≤8	PASS



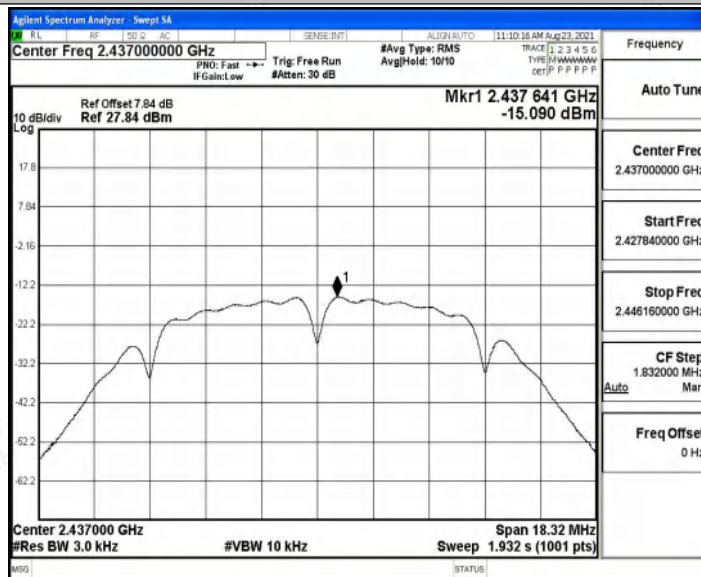


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

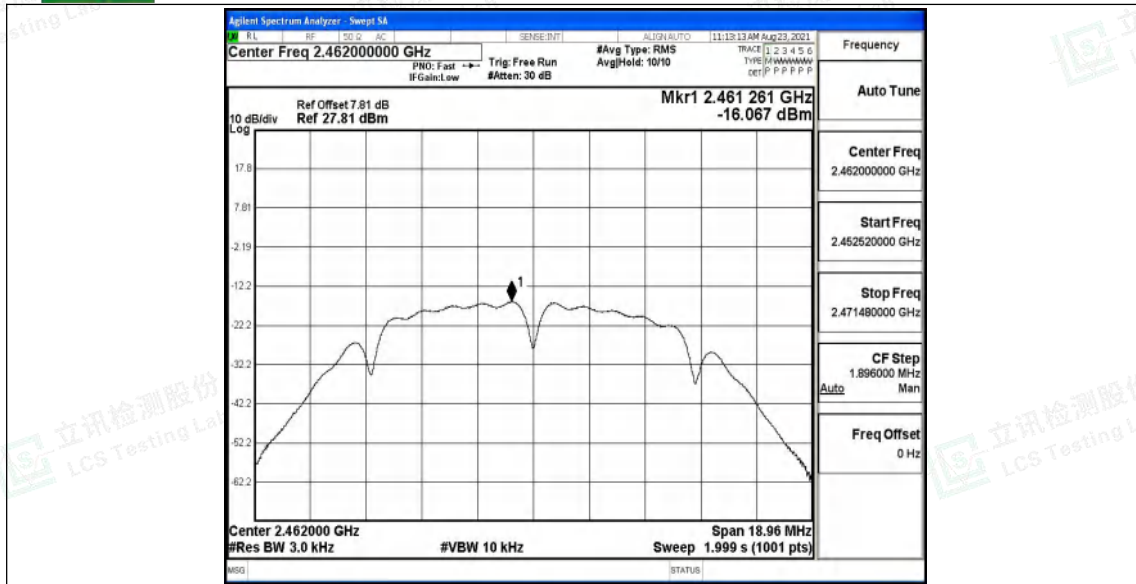


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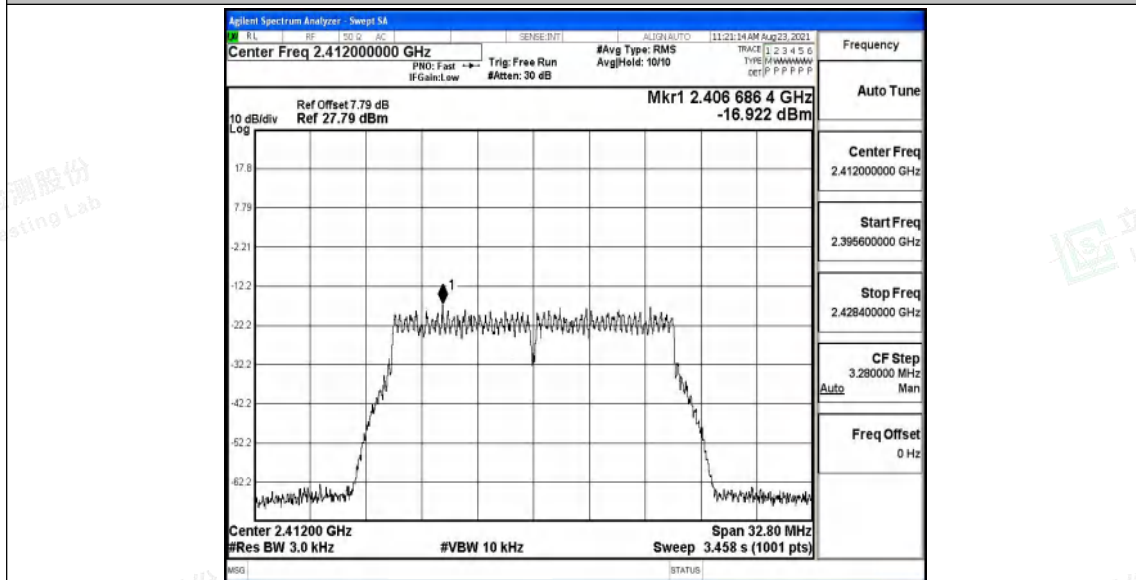
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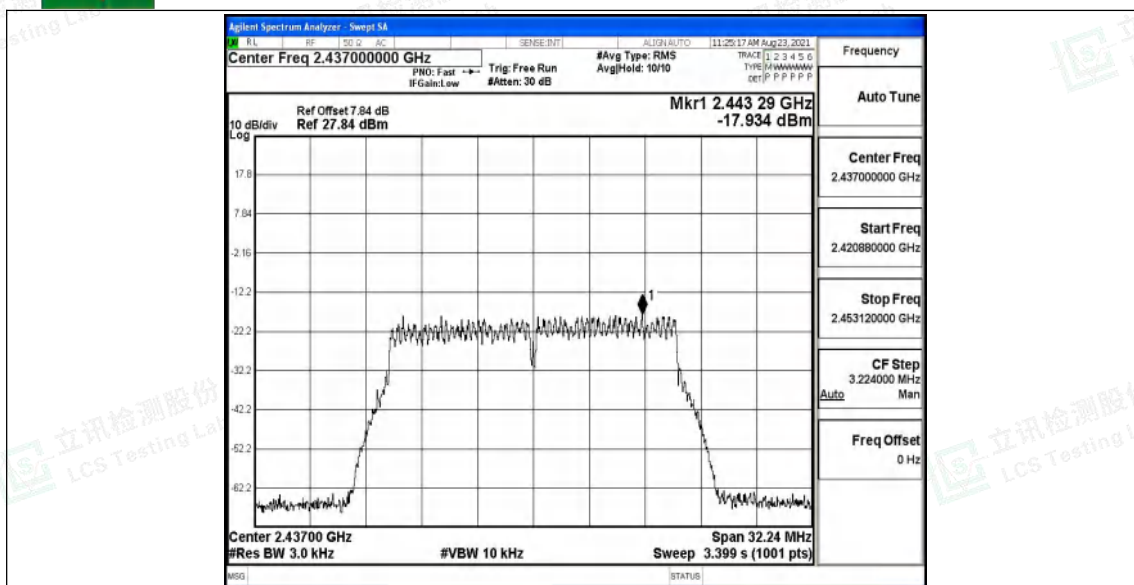


11G_Ant1_2412

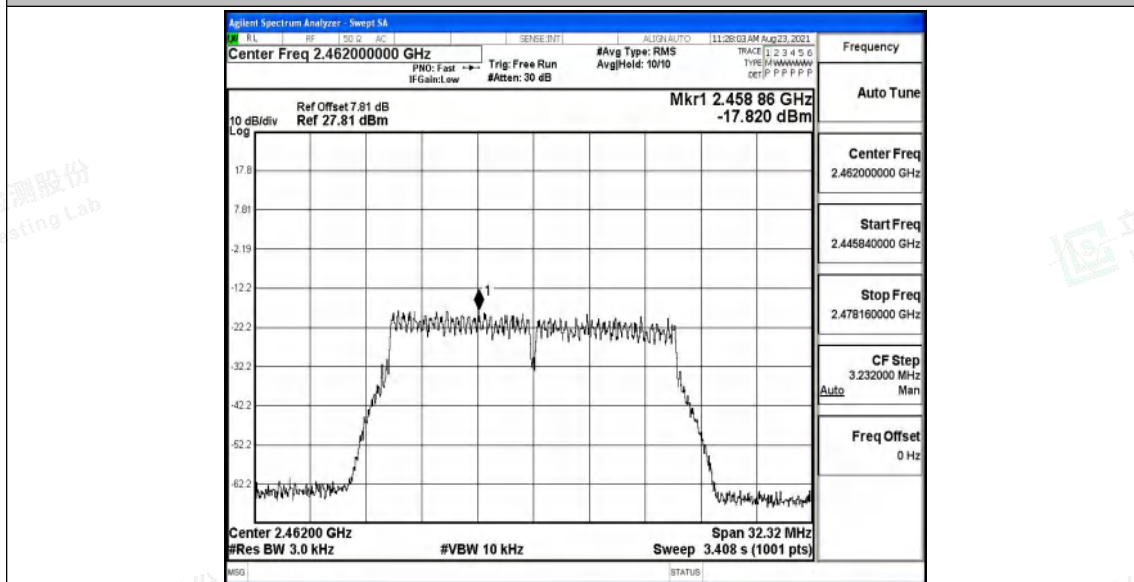


11G_Ant1_2437



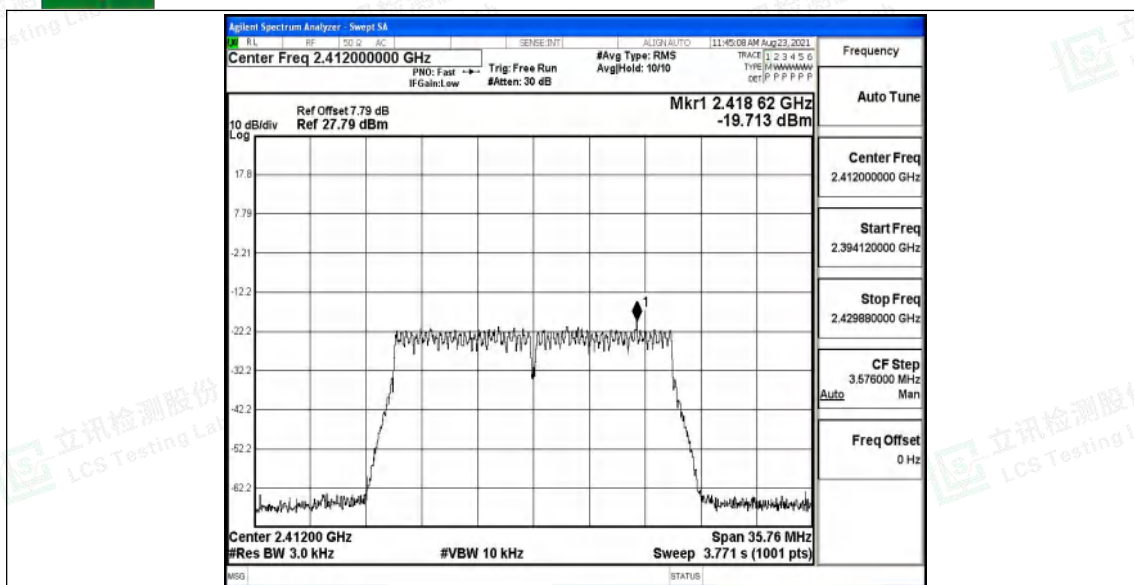


11G_Ant1_2462

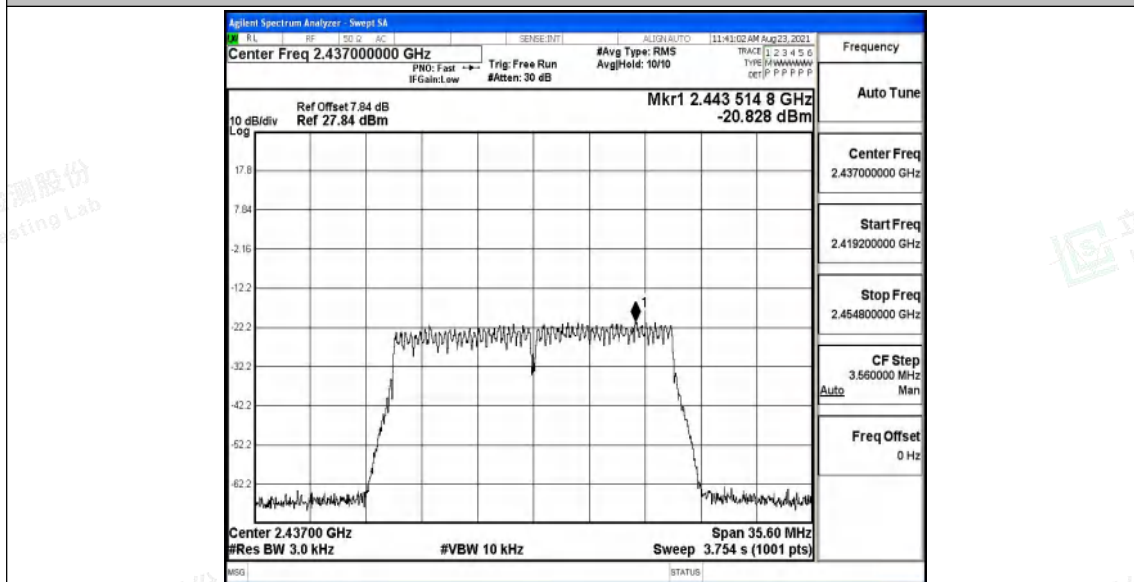


11N20SISO_Ant1_2412



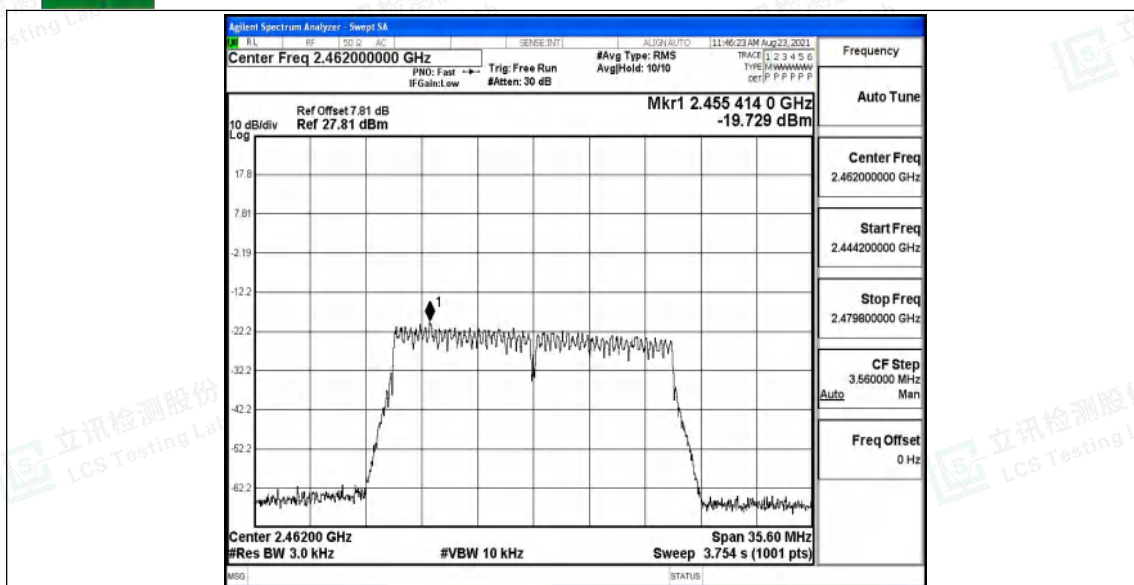


11N20SISO_Ant1_2437

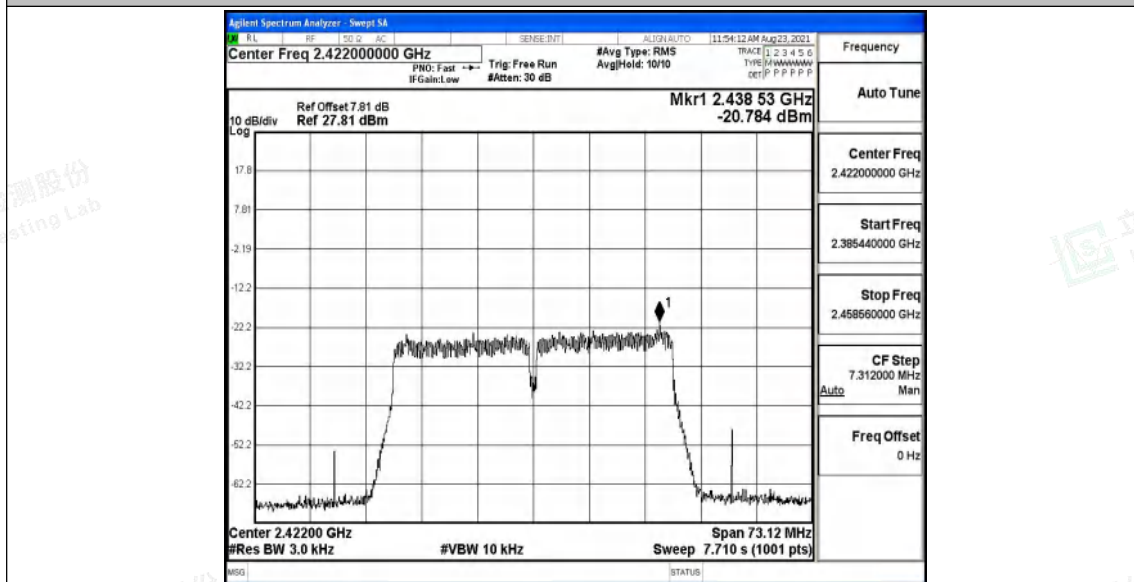


11N20SISO_Ant1_2462





11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

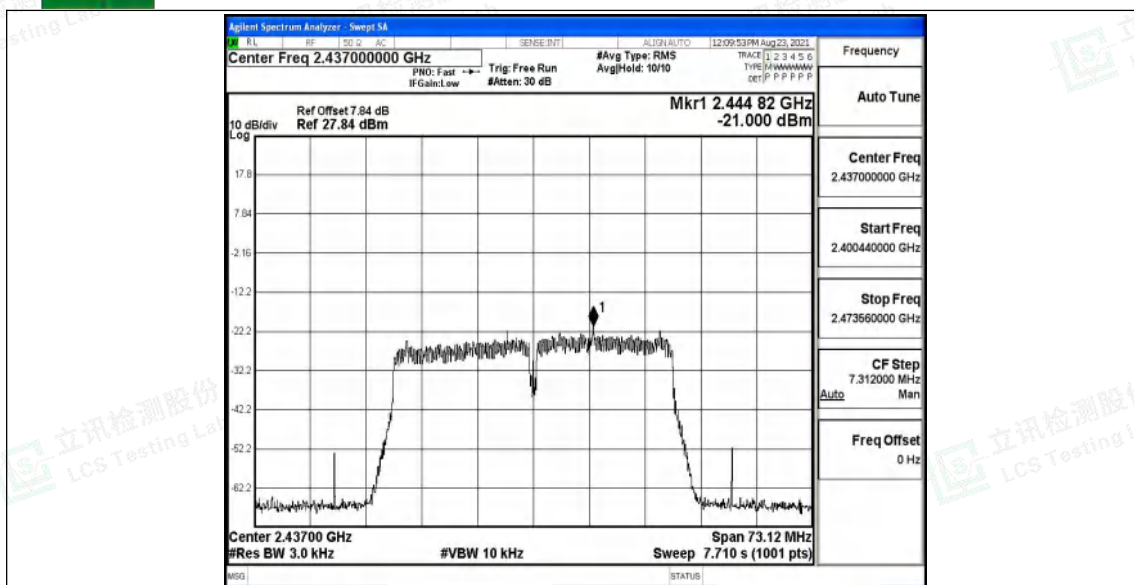


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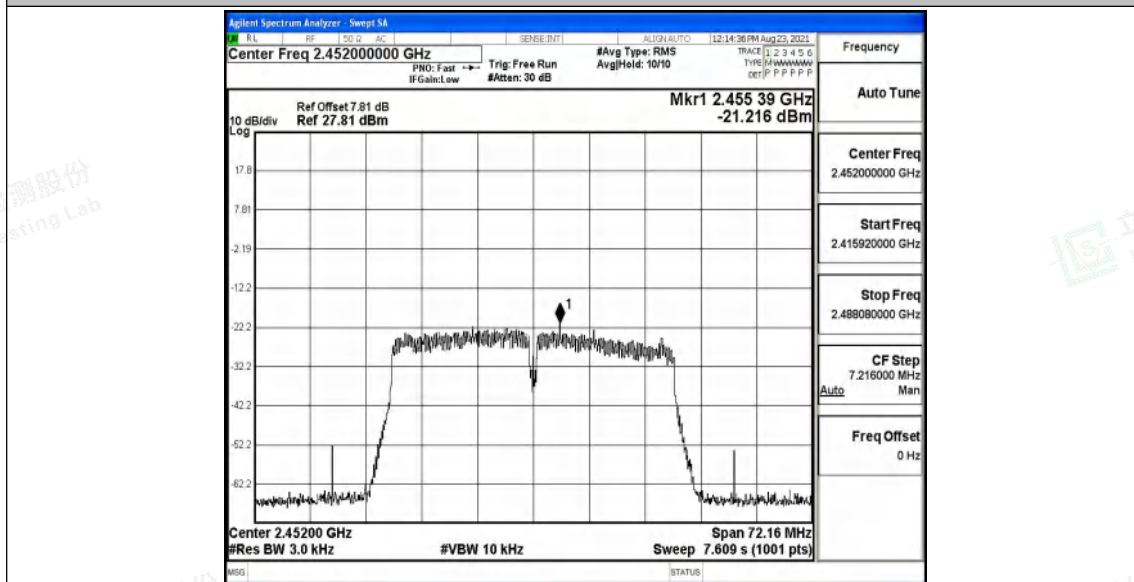
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11N40SISO_Ant1_2452





C.4 Band edge measurements

Test Result

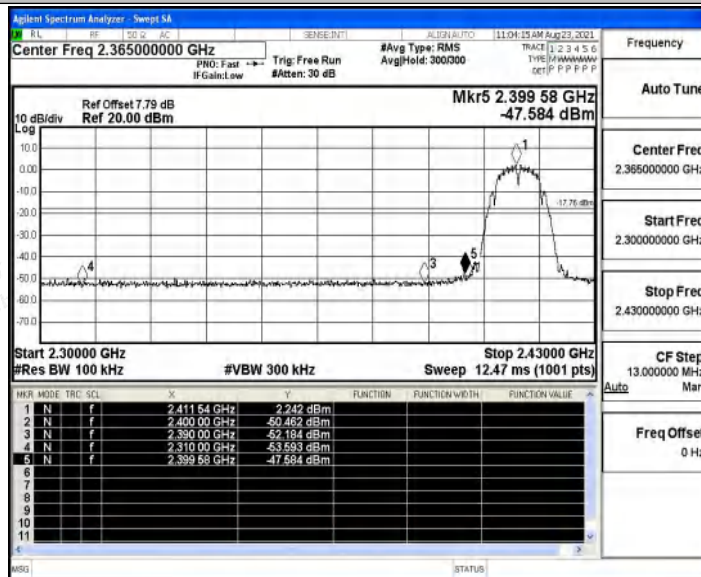
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.24	-47.58	≤ -17.76	PASS
		High	2462	2.30	-48.45	≤ -17.7	PASS
11G	Ant1	Low	2412	-3.77	-48.26	≤ -23.77	PASS
		High	2462	-3.06	-45.96	≤ -23.06	PASS
11N20SISO	Ant1	Low	2412	-7.54	-49.25	≤ -27.54	PASS
		High	2462	-6.55	-47.38	≤ -26.55	PASS
11N40SISO	Ant1	Low	2422	-10.10	-47.94	≤ -30.1	PASS
		High	2452	-9.04	-48.86	≤ -29.04	PASS



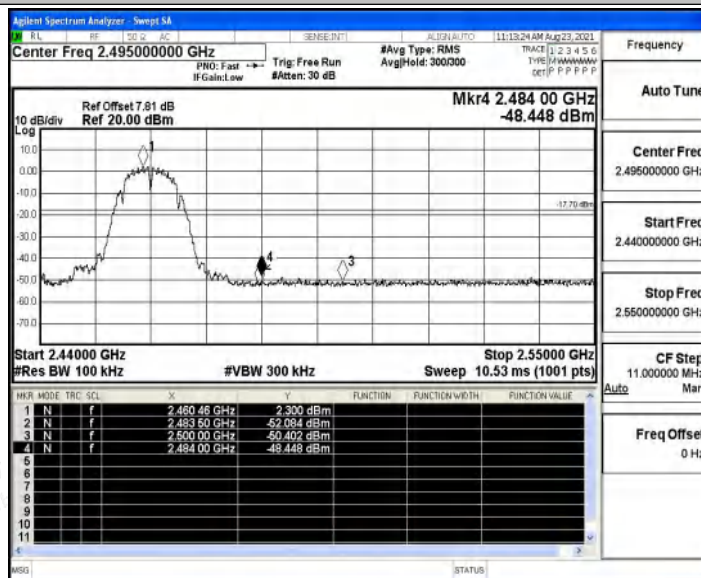


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

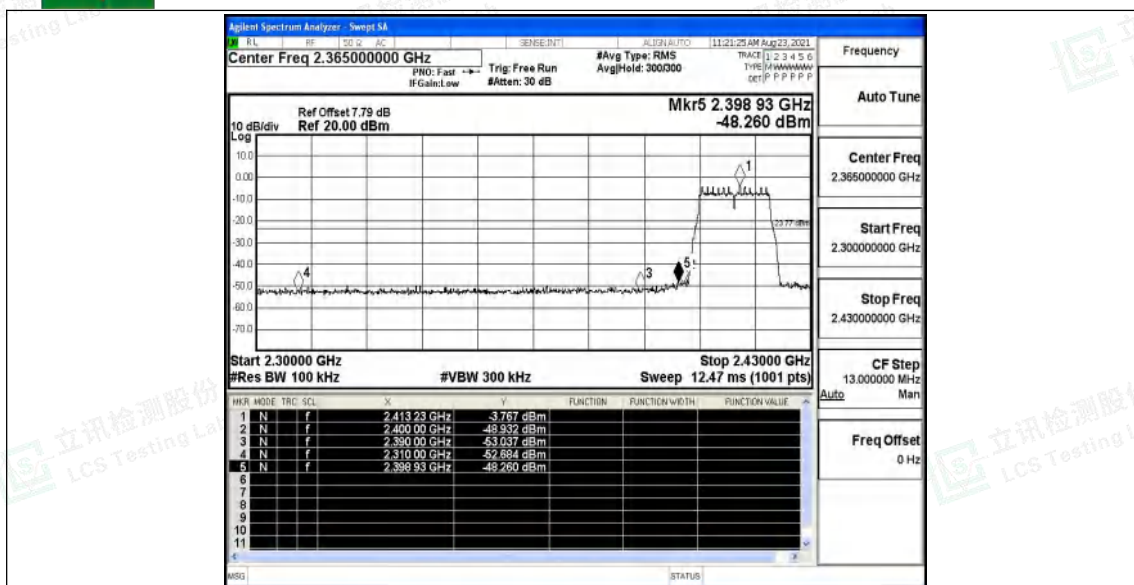


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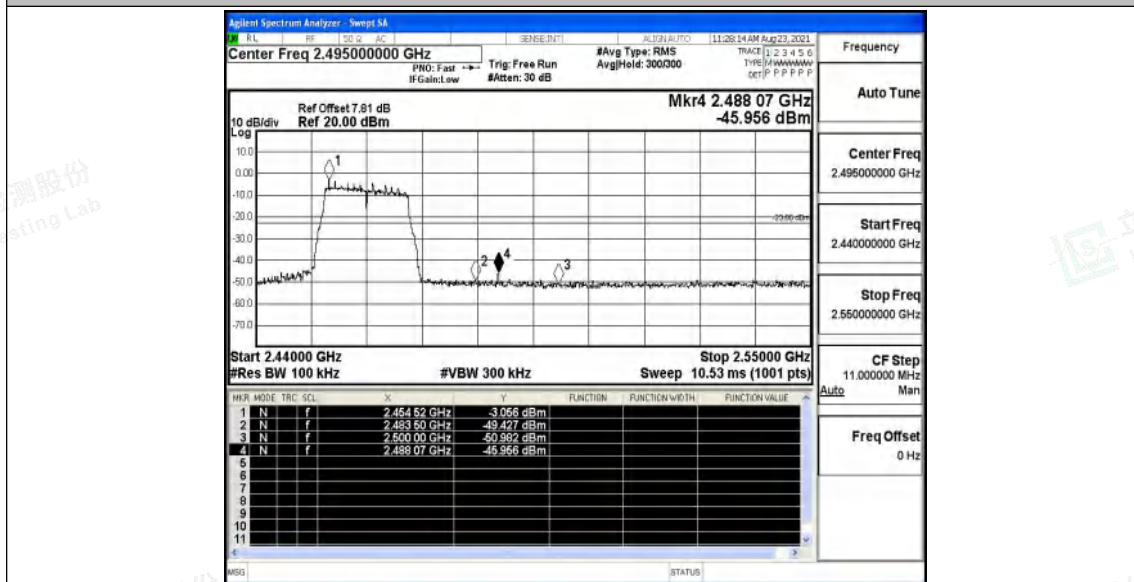
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

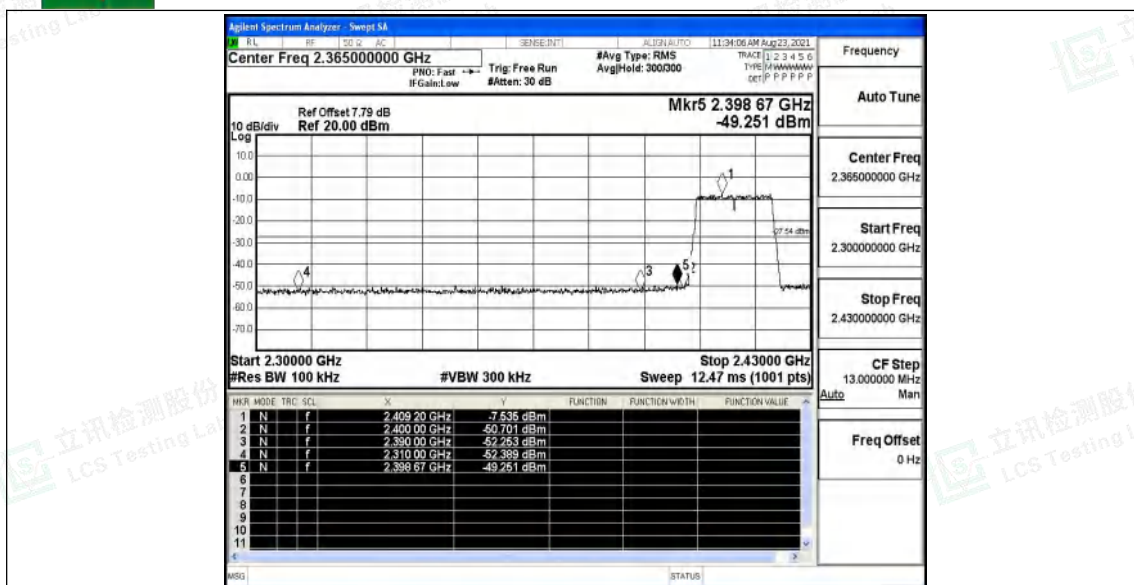


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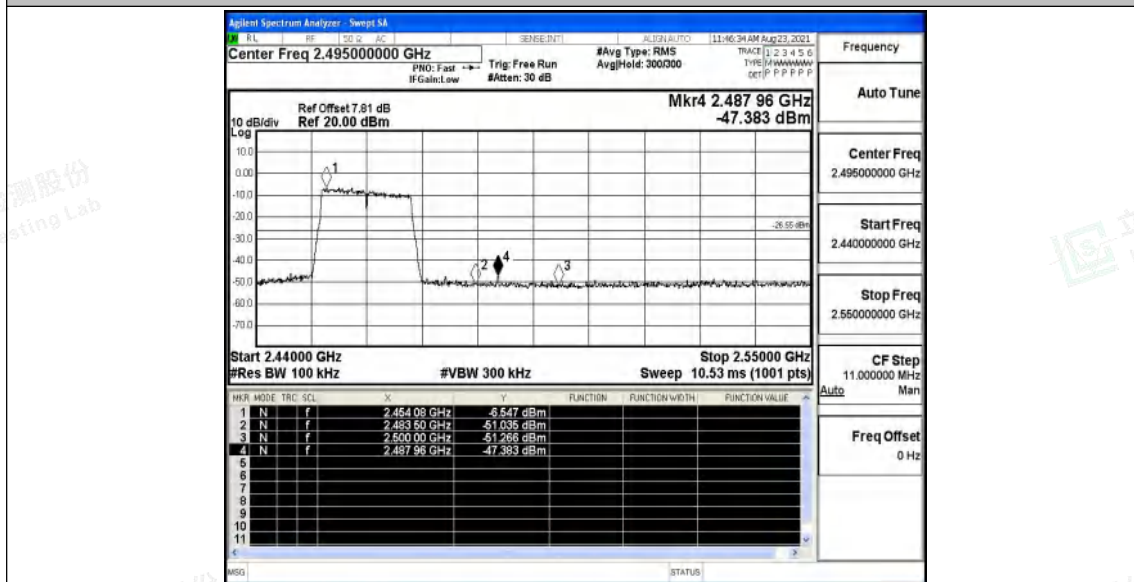
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

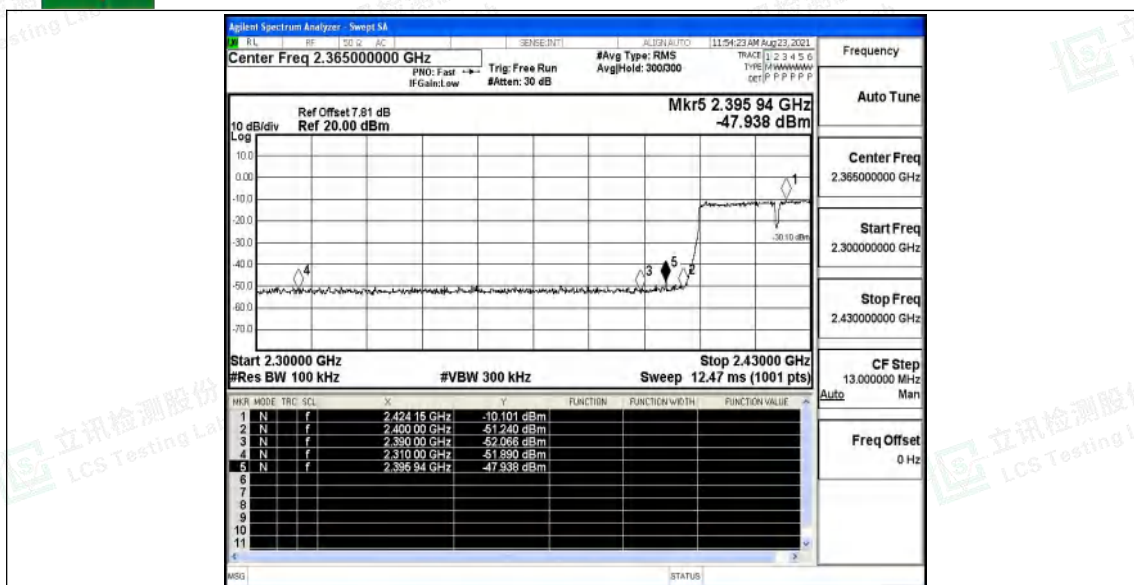


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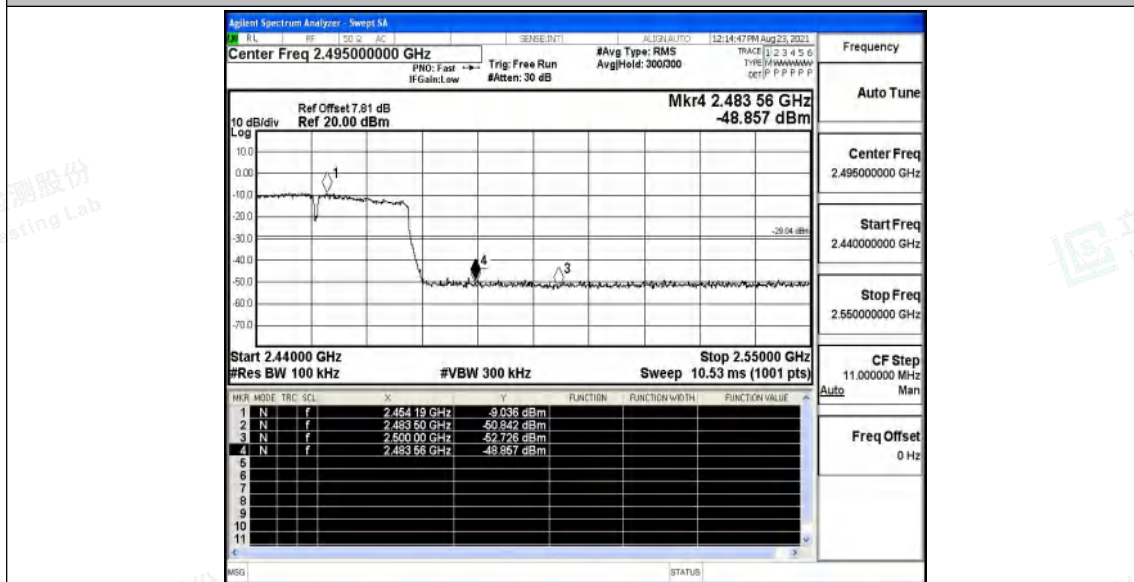
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_High_2452



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C.5 Conducted Spurious Emission

Test Result

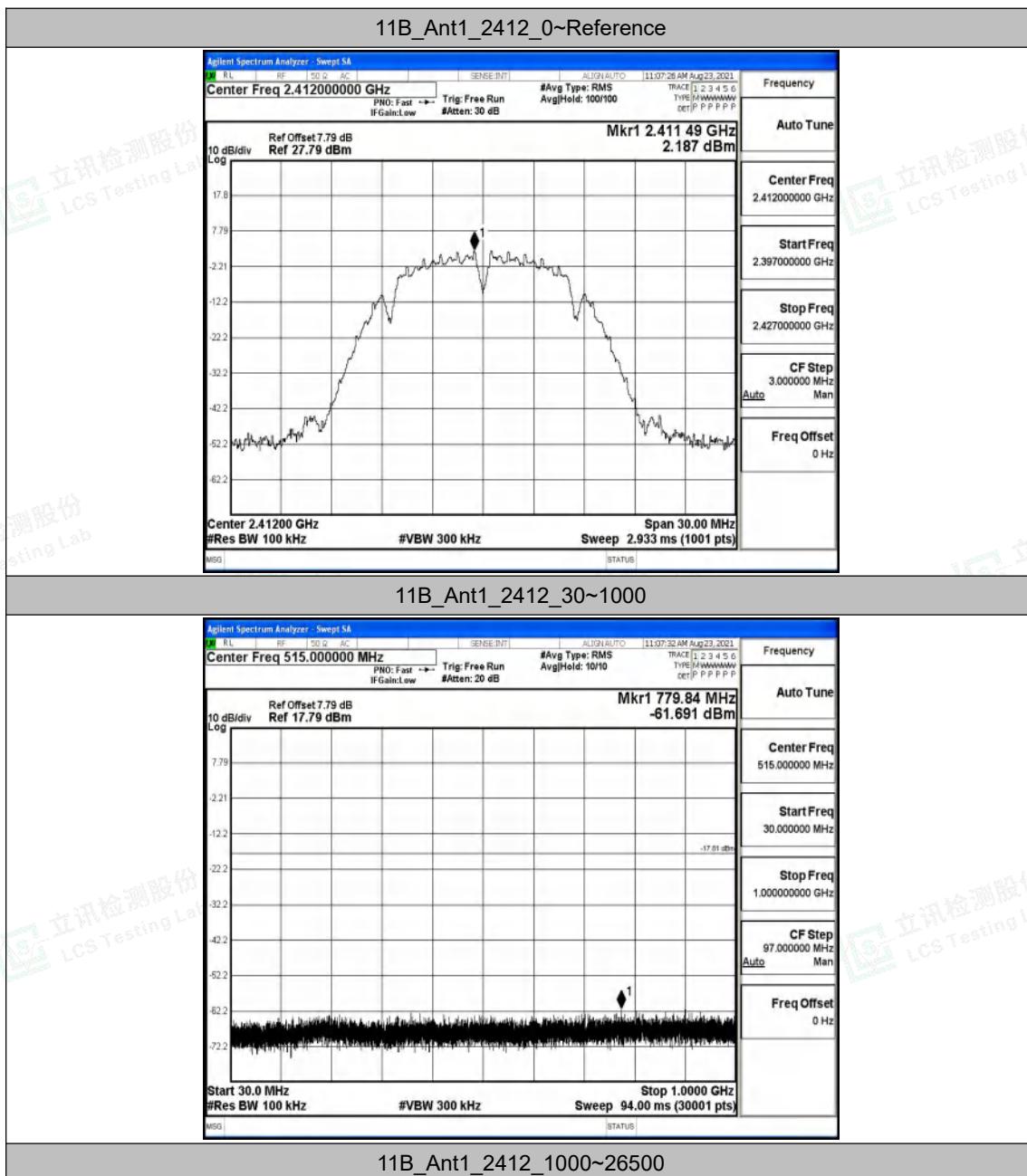
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.19	2.19	---	PASS
			30~1000	2.19	-61.69	≤-17.81	PASS
			1000~26500	2.19	-46.65	≤-17.81	PASS
		2437	Reference	3.20	3.20	---	PASS
			30~1000	3.20	-60.7	≤-16.8	PASS
			1000~26500	3.20	-47.59	≤-16.8	PASS
		2462	Reference	2.26	2.26	---	PASS
			30~1000	2.26	-62.07	≤-17.74	PASS
			1000~26500	2.26	-47.09	≤-17.74	PASS
11G	Ant1	2412	Reference	-4.36	-4.36	---	PASS
			30~1000	-4.36	-61.83	≤-24.36	PASS
			1000~26500	-4.36	-47.68	≤-24.36	PASS
		2437	Reference	-3.33	-3.33	---	PASS
			30~1000	-3.33	-61.63	≤-23.33	PASS
			1000~26500	-3.33	-47.37	≤-23.33	PASS
		2462	Reference	-3.40	-3.40	---	PASS
			30~1000	-3.40	-61	≤-23.4	PASS
			1000~26500	-3.40	-47.23	≤-23.4	PASS
11N20SISO	Ant1	2412	Reference	-7.68	-7.68	---	PASS
			30~1000	-7.68	-61.7	≤-27.68	PASS
			1000~26500	-7.68	-47.7	≤-27.68	PASS
		2437	Reference	-6.93	-6.93	---	PASS
			30~1000	-6.93	-61.42	≤-26.93	PASS
			1000~26500	-6.93	-47.67	≤-26.93	PASS
		2462	Reference	-6.74	-6.74	---	PASS
			30~1000	-6.74	-61.62	≤-26.74	PASS
			1000~26500	-6.74	-47.09	≤-26.74	PASS
11N40SISO	Ant1	2422	Reference	-9.52	-9.52	---	PASS
			30~1000	-9.52	-61.68	≤-29.52	PASS
			1000~26500	-9.52	-47.65	≤-29.52	PASS
		2437	Reference	-9.39	-9.39	---	PASS
			30~1000	-9.39	-61.78	≤-29.39	PASS
			1000~26500	-9.39	-47.34	≤-29.39	PASS





		Reference	-9.04	-9.04	---	PASS
	2452	30~1000	-9.04	-61.84	≤ -29.04	PASS
		1000~26500	-9.04	-47.8	≤ -29.04	PASS

Test Graphs

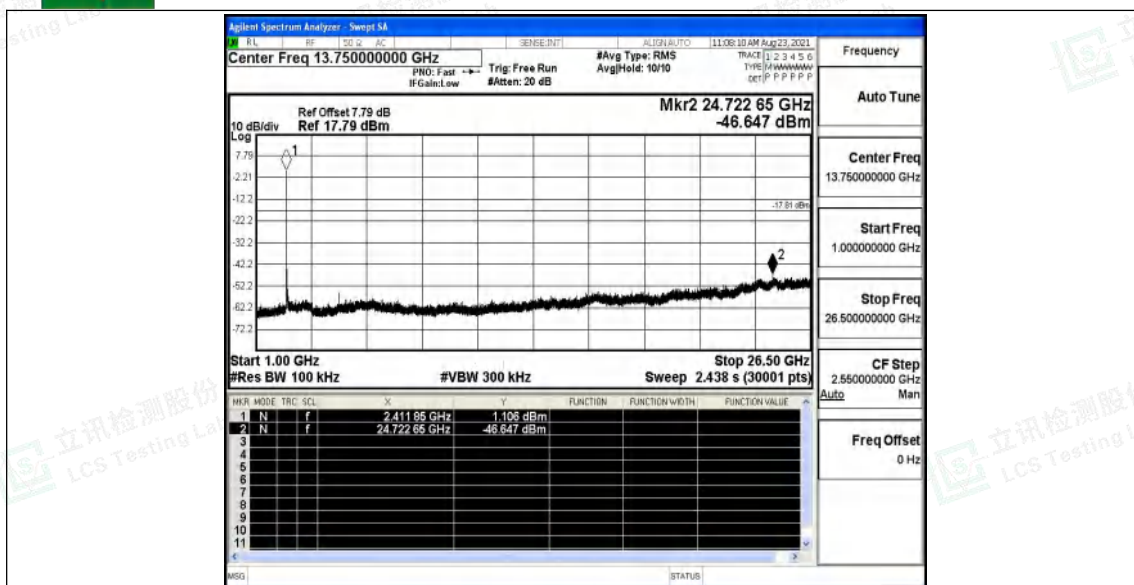


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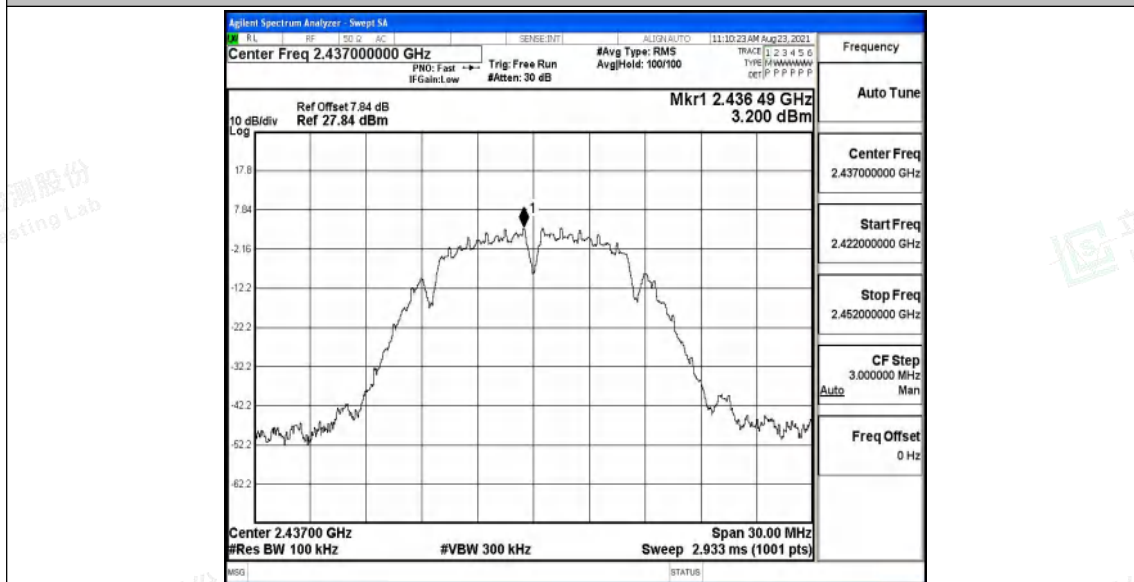
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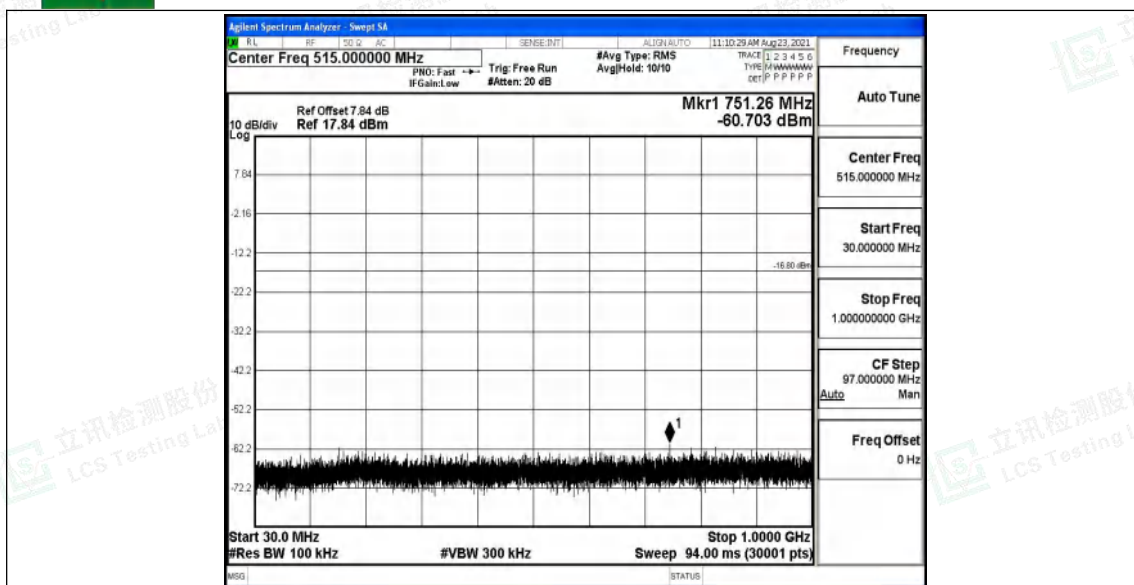


11B_Ant1_2437_0~Reference

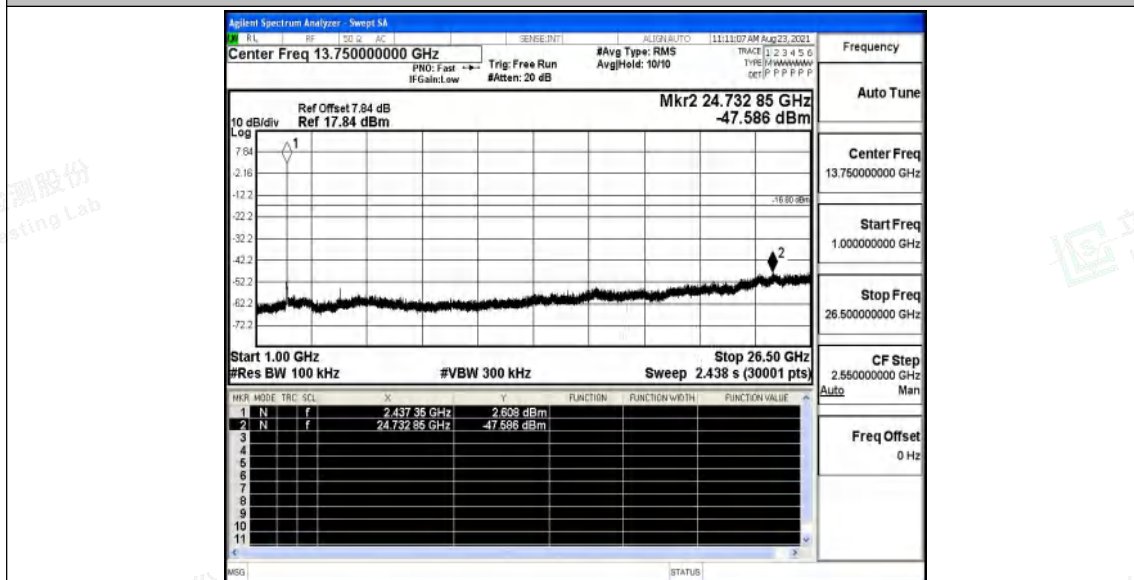


11B_Ant1_2437_30~1000





11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

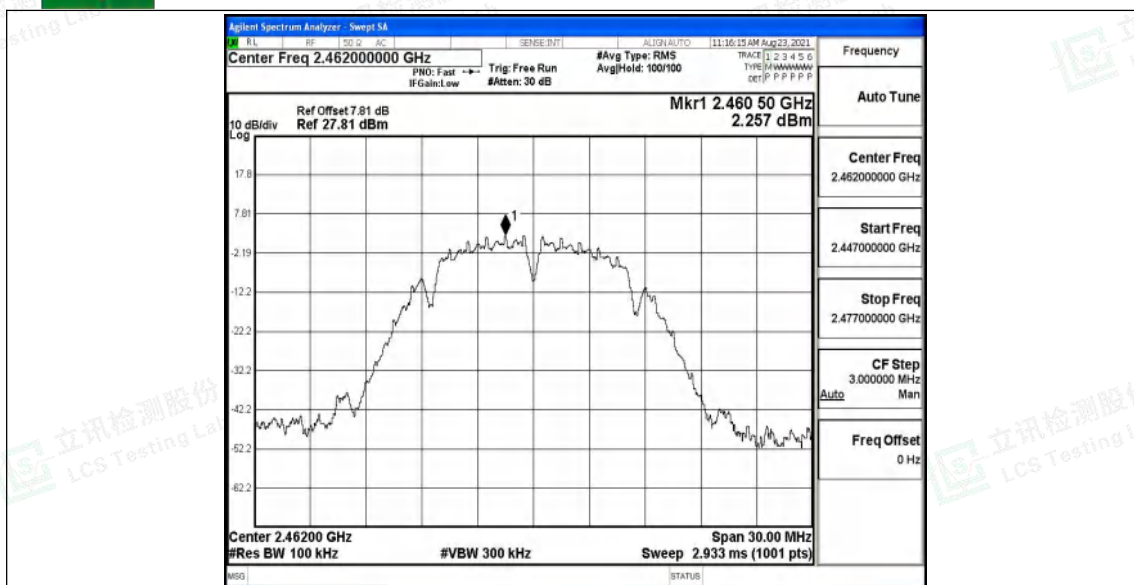


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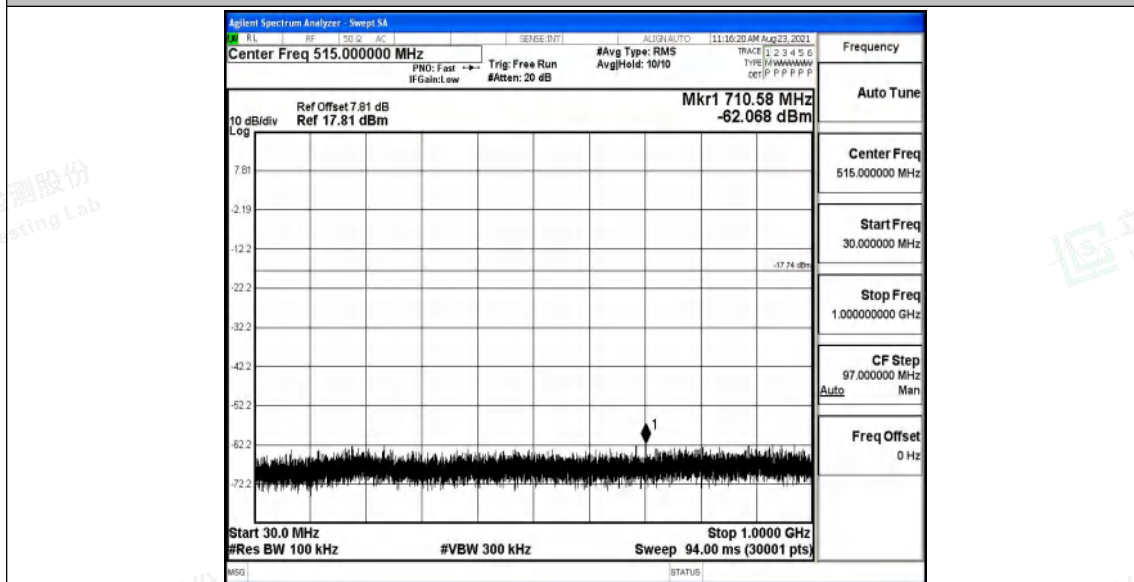
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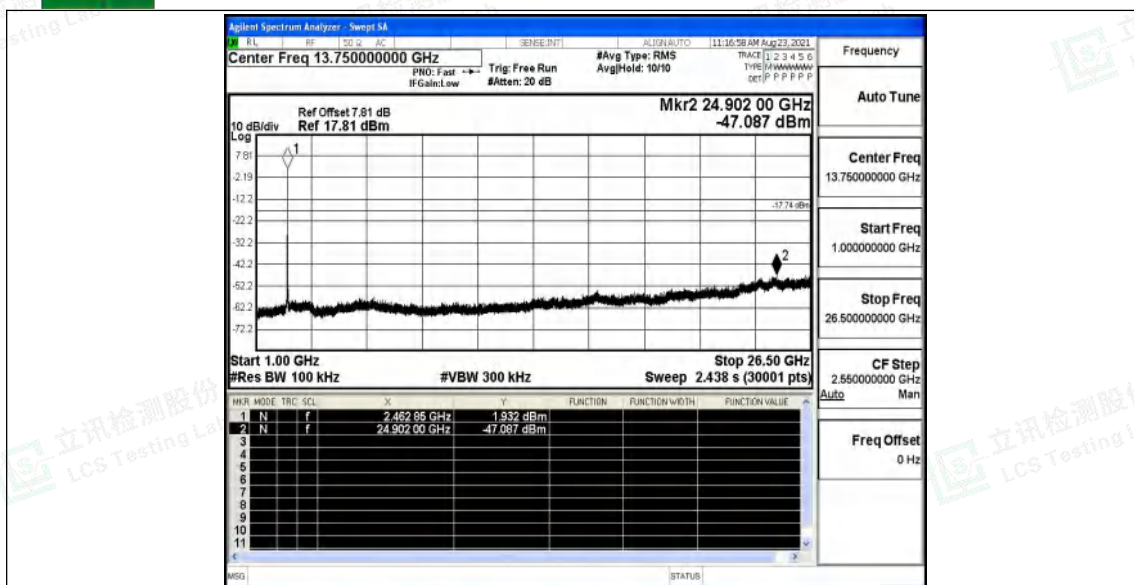


11B_Ant1_2462_30~1000

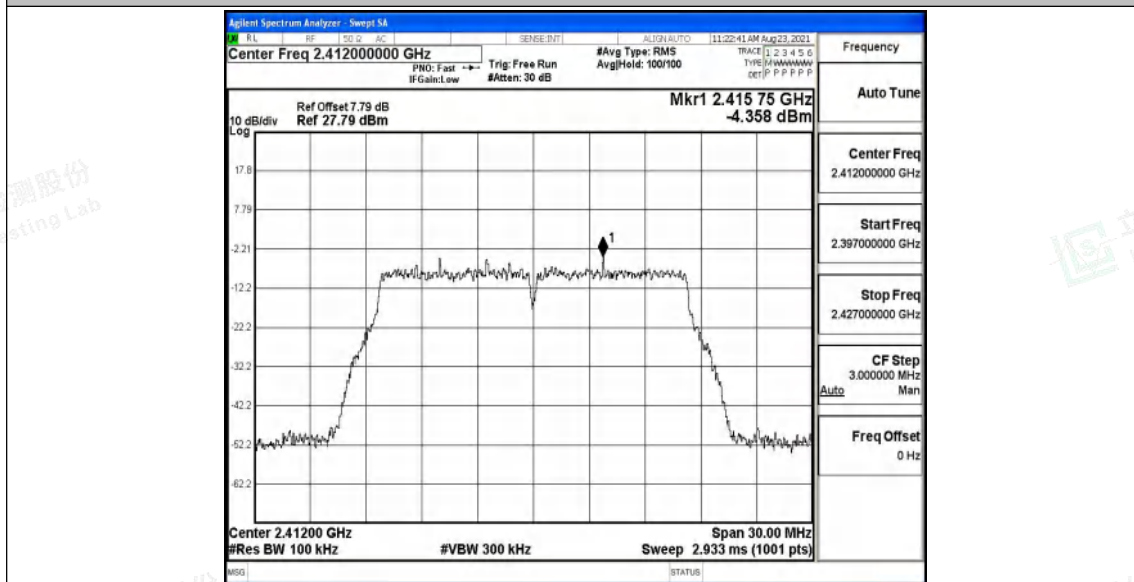


11B_Ant1_2462_1000~26500





11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

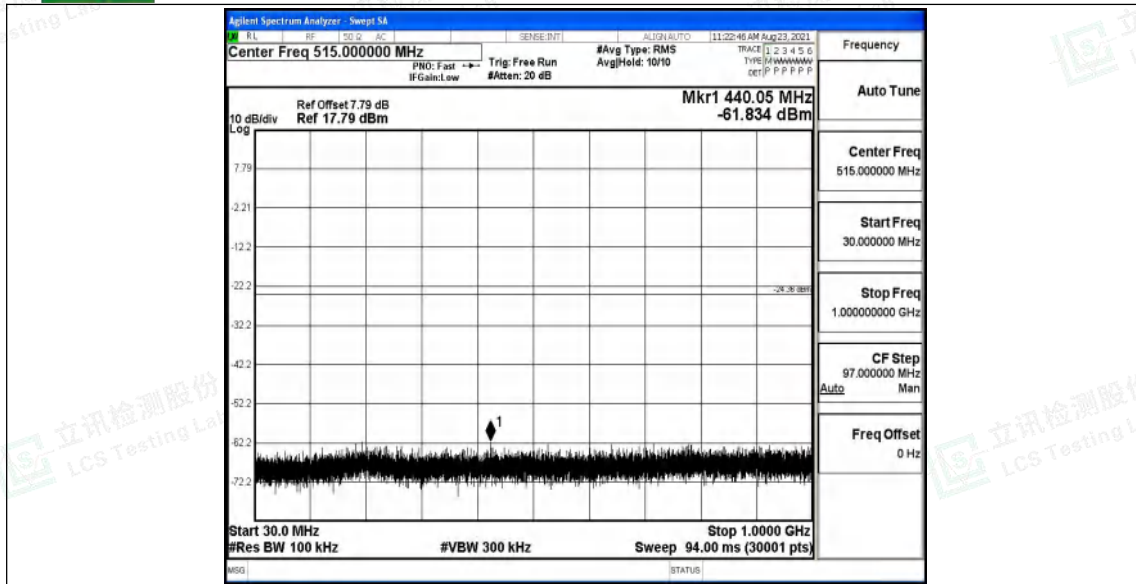


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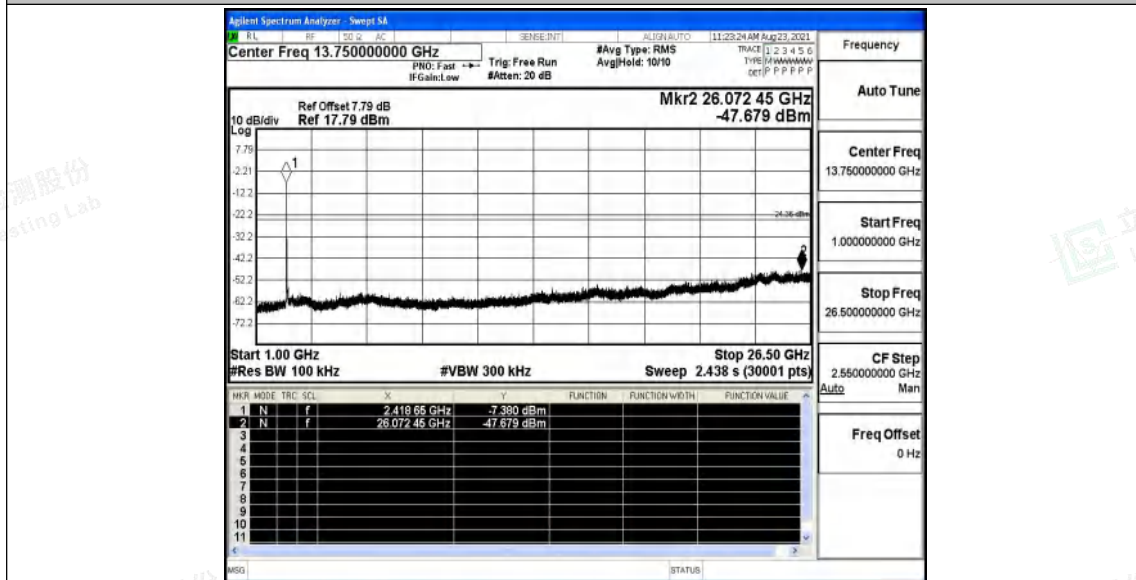
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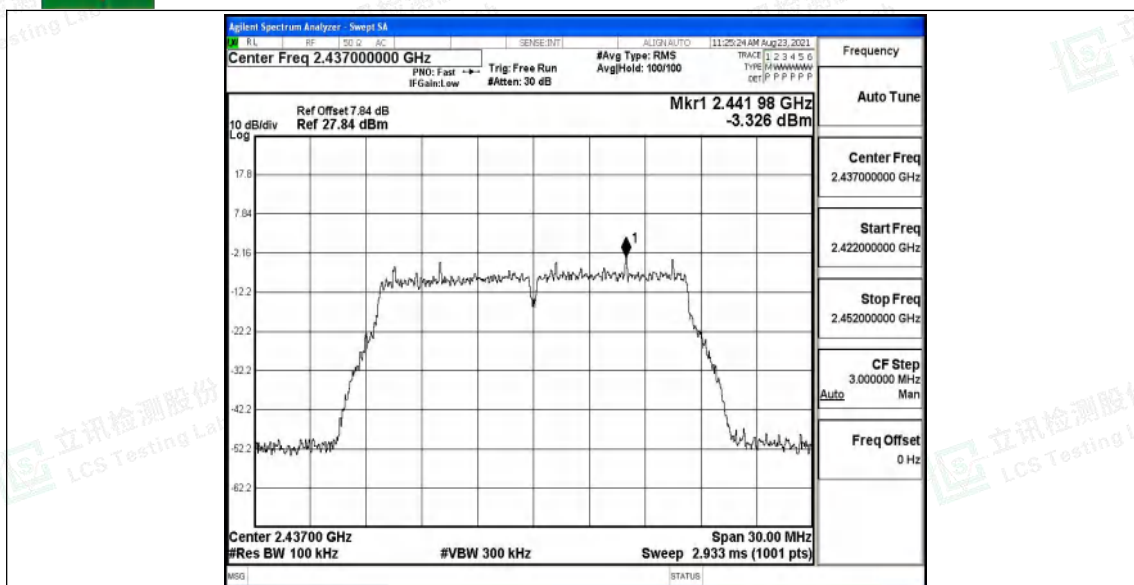


11G_Ant1_2412_1000~26500

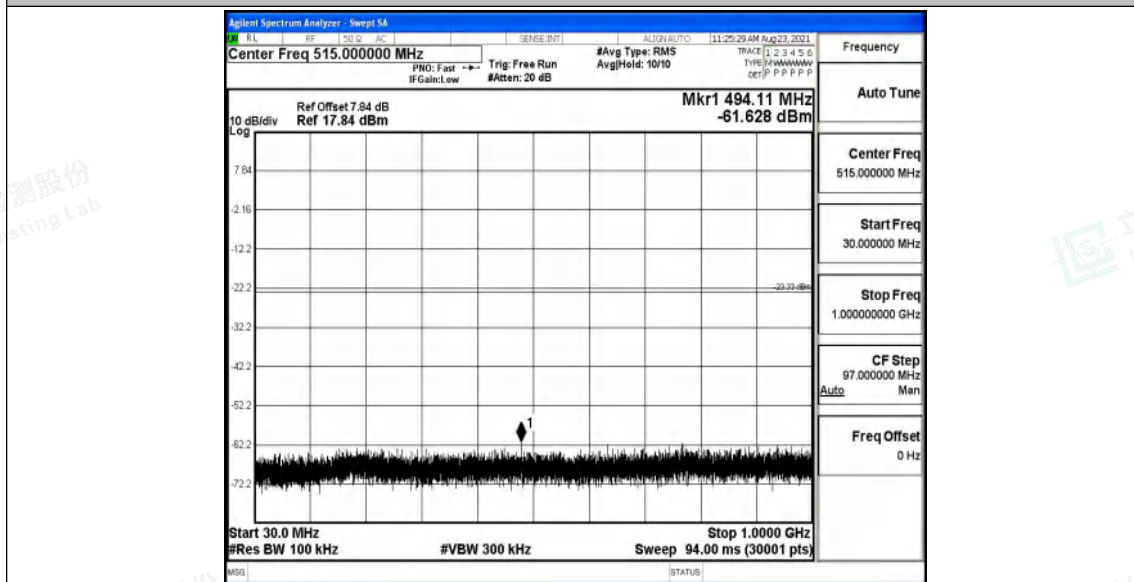


11G_Ant1_2437_0~Reference



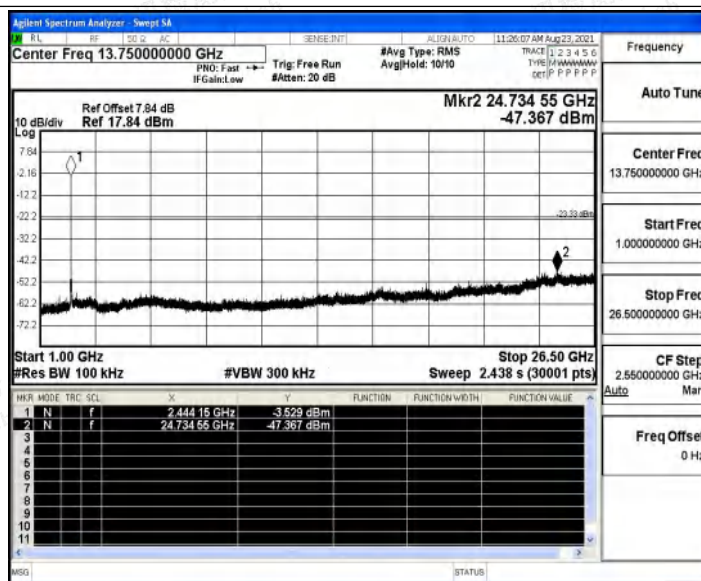


11G_Ant1_2437_30~1000

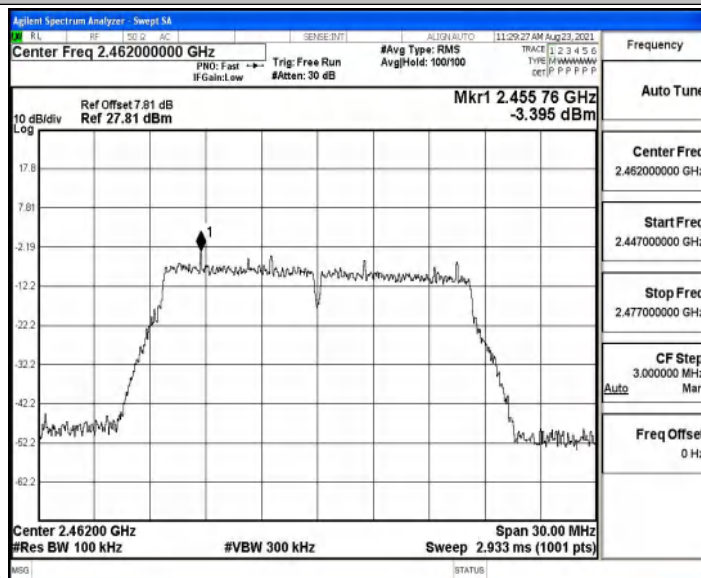


11G_Ant1_2437_1000~26500





11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

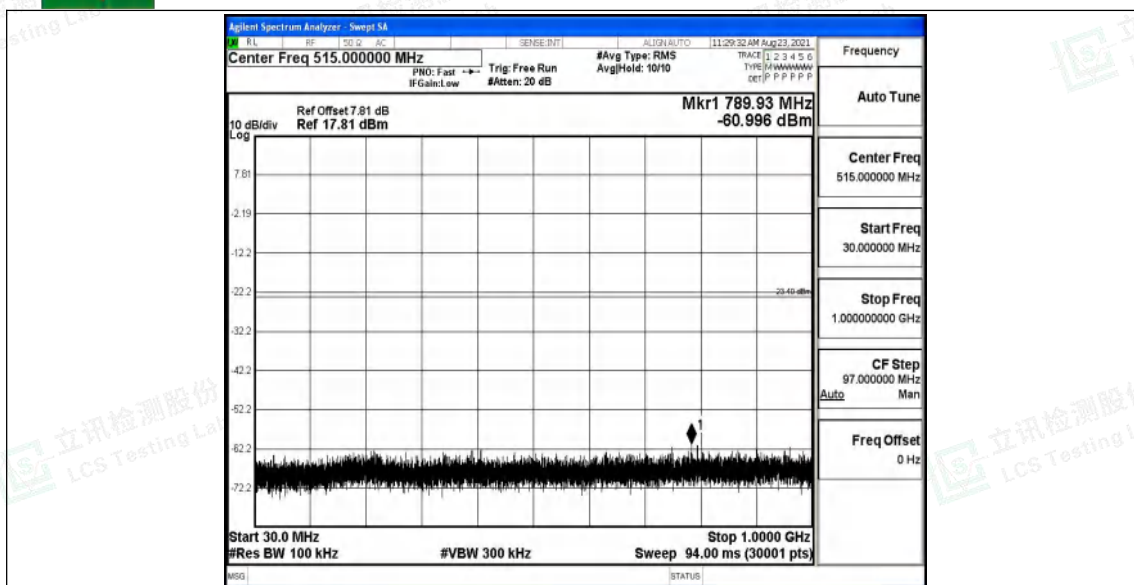


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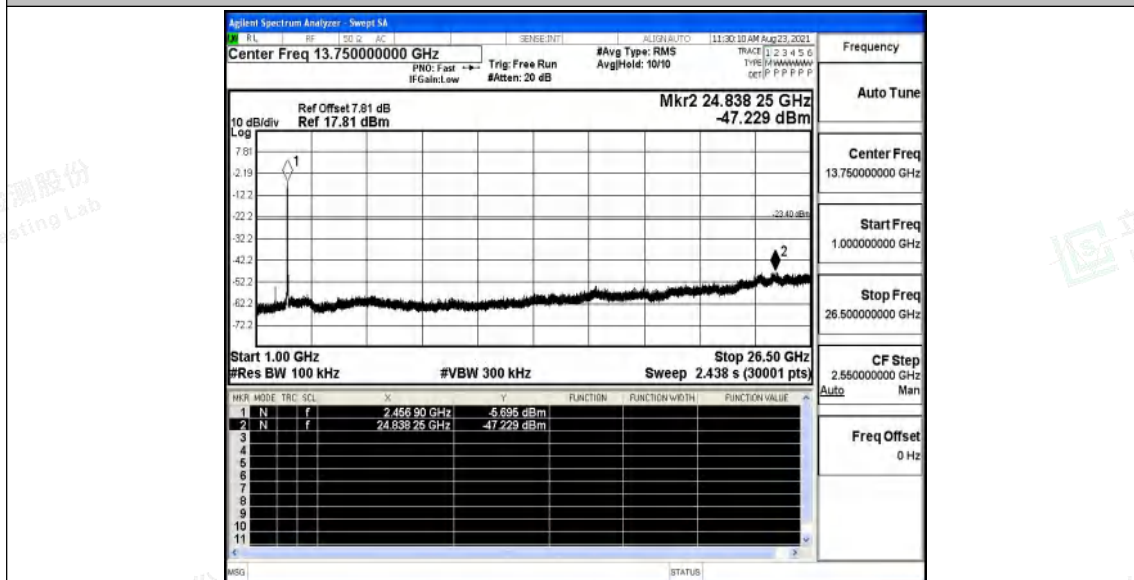
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference

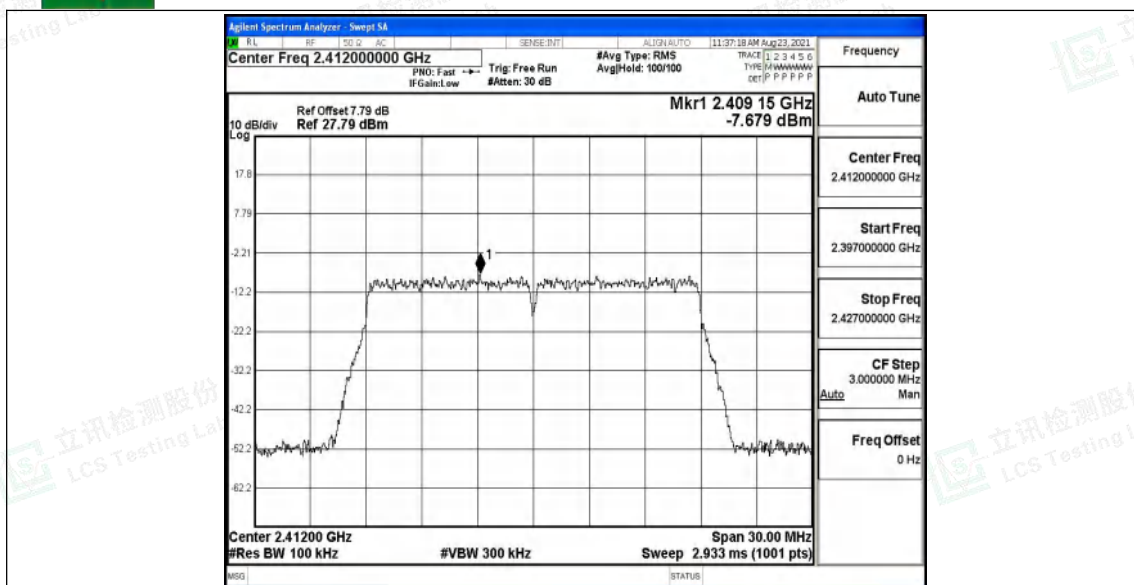


Shenzhen LCS Compliance Testing Laboratory Ltd.

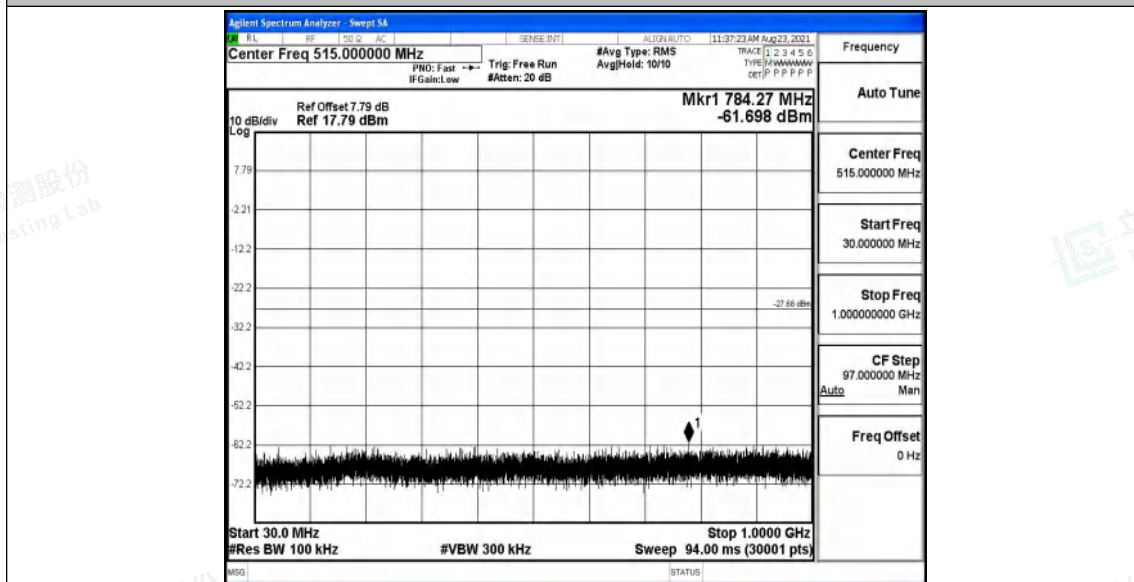
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500

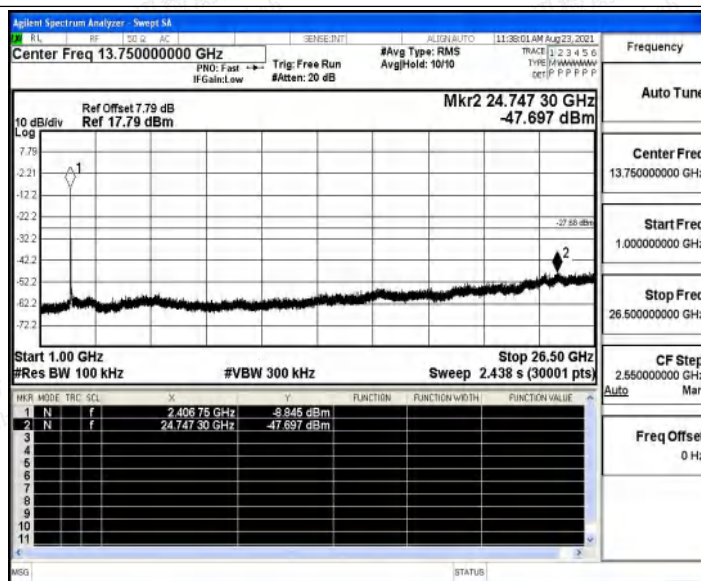


Shenzhen LCS Compliance Testing Laboratory Ltd.

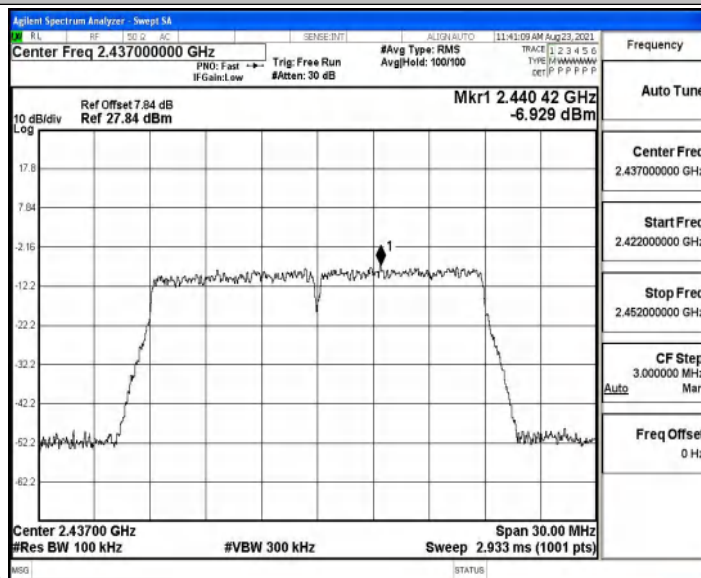
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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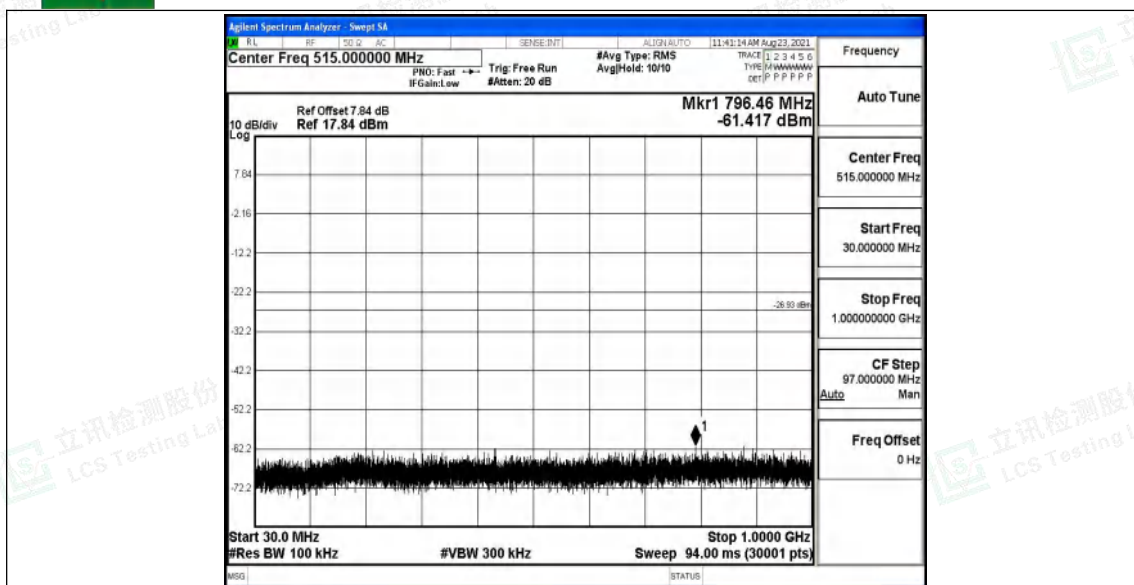


11N20SISO_Ant1_2437_0~Reference

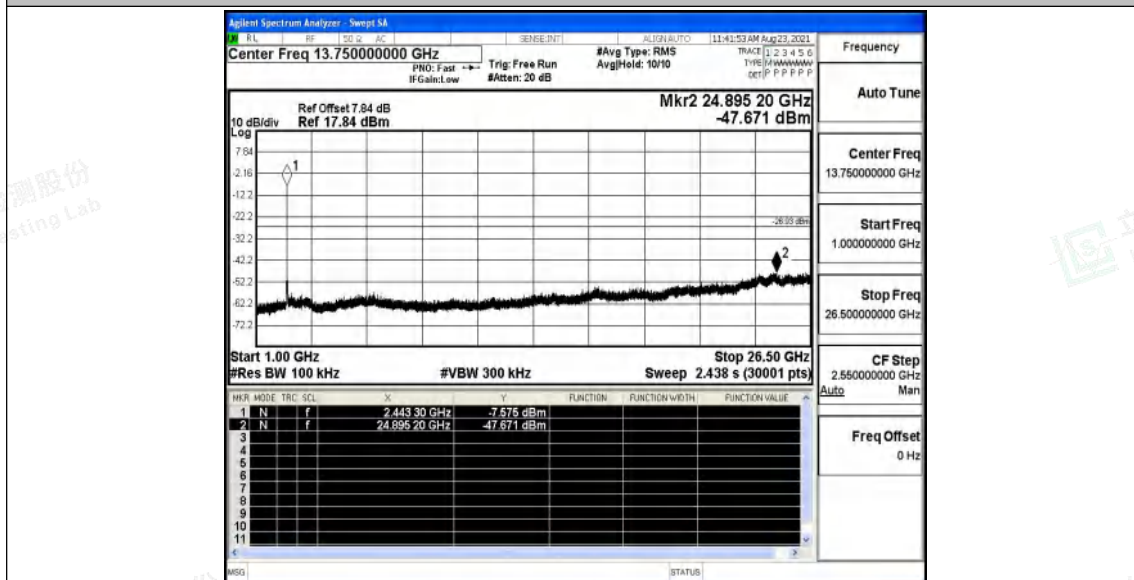


11N20SISO_Ant1_2437_30~1000





11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

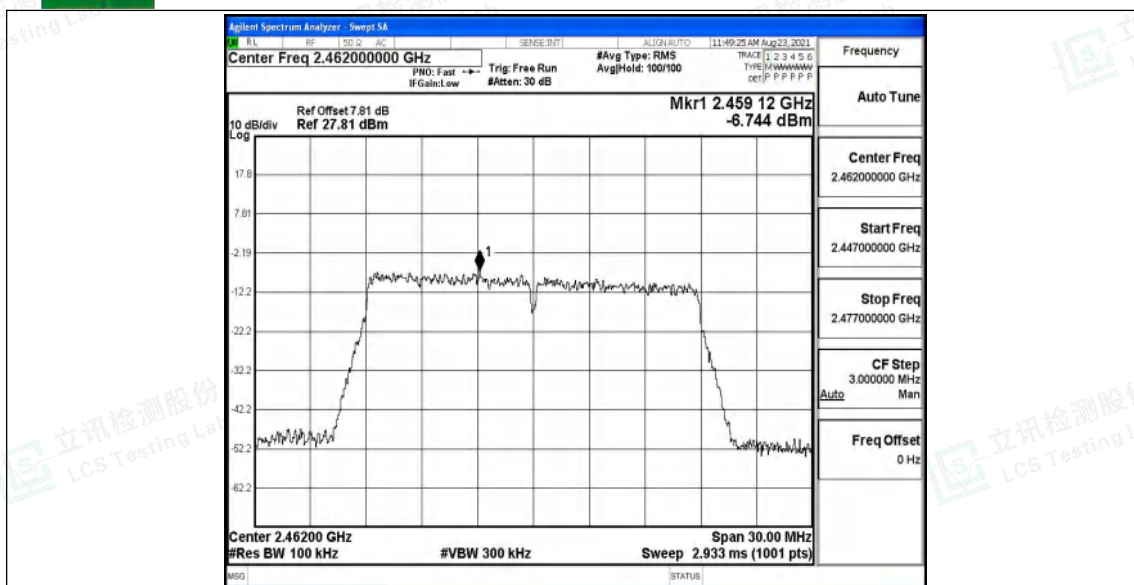


Shenzhen LCS Compliance Testing Laboratory Ltd.

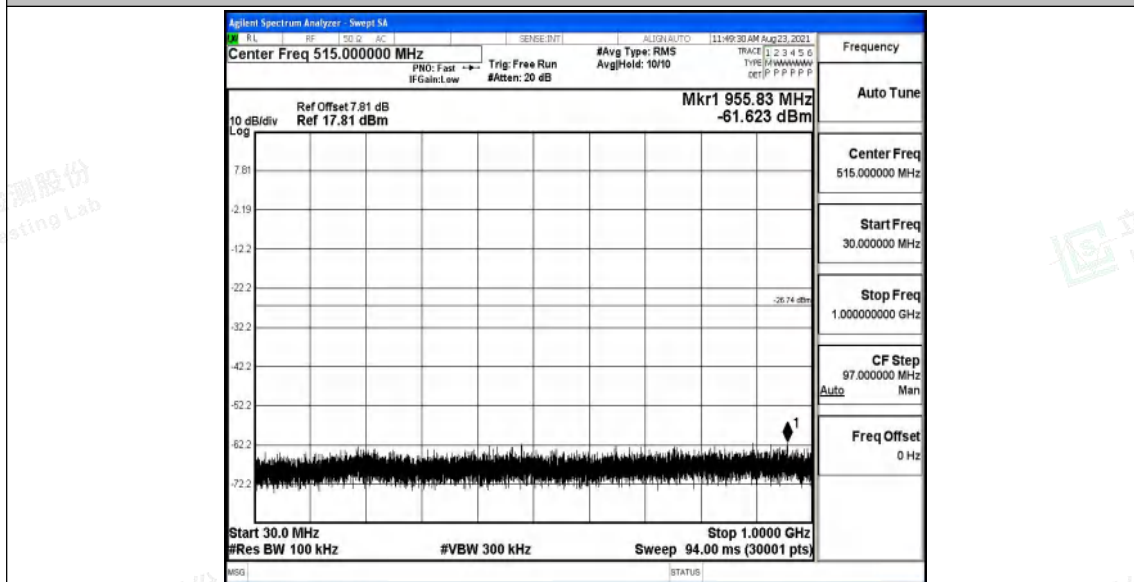
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity

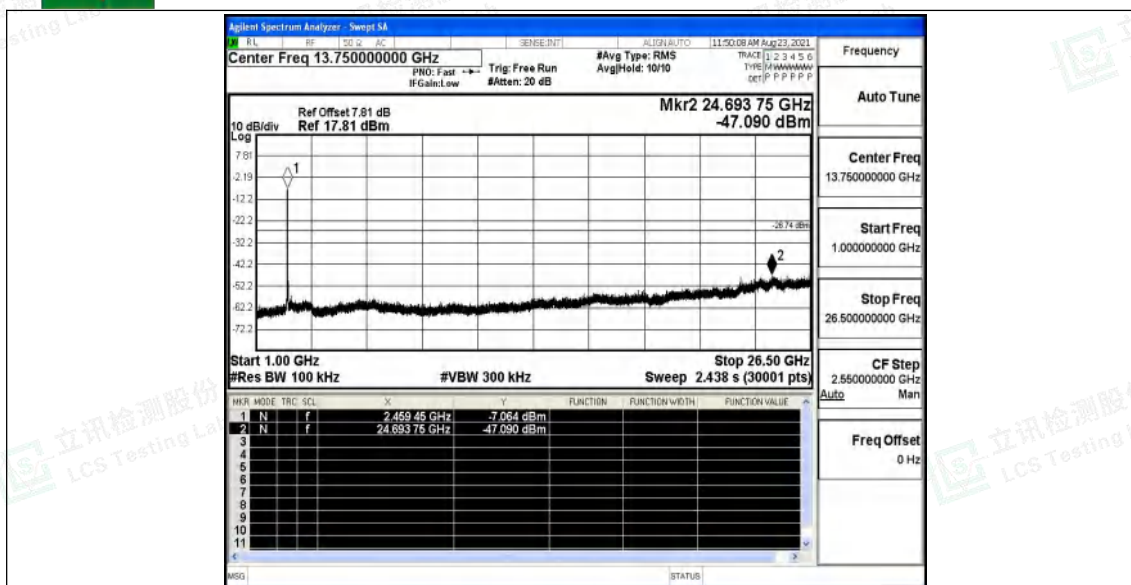


11N20SISO_Ant1_2462_30~1000

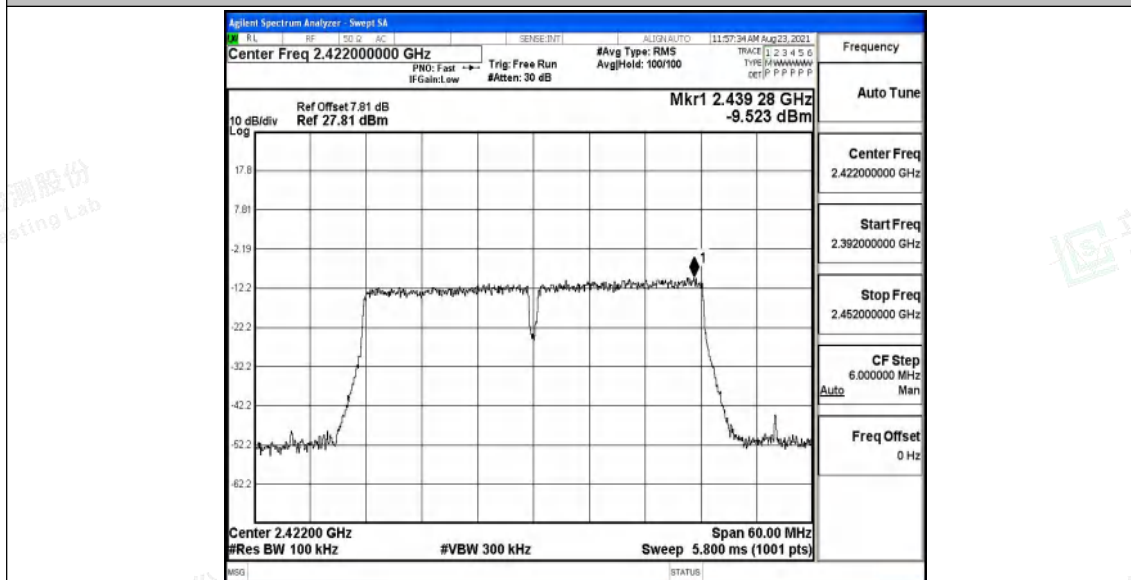


11N20SISO_Ant1_2462_1000~26500





11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000

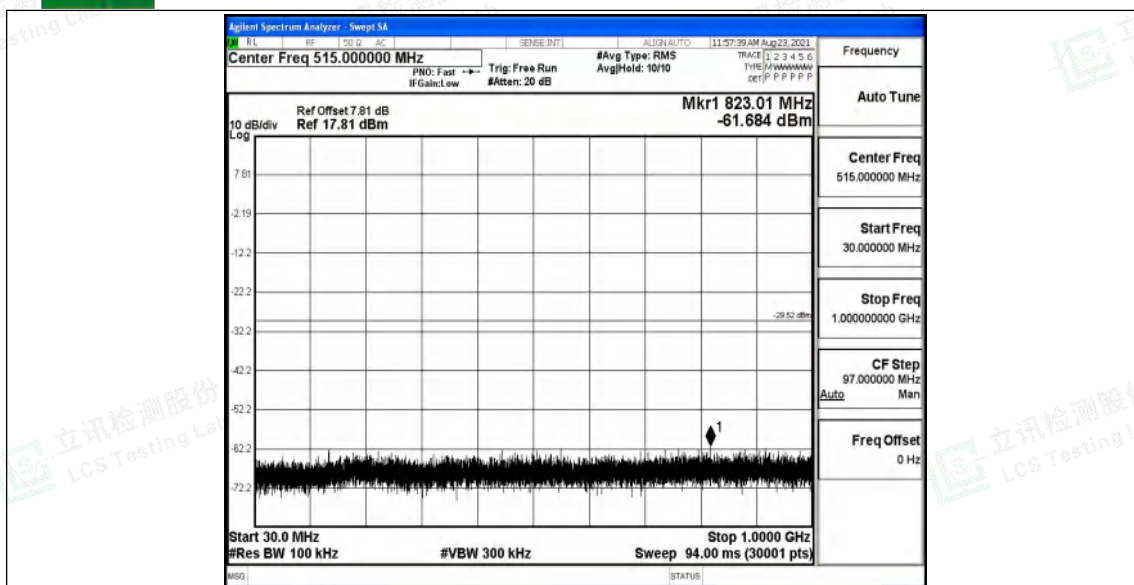


Shenzhen LCS Compliance Testing Laboratory Ltd.

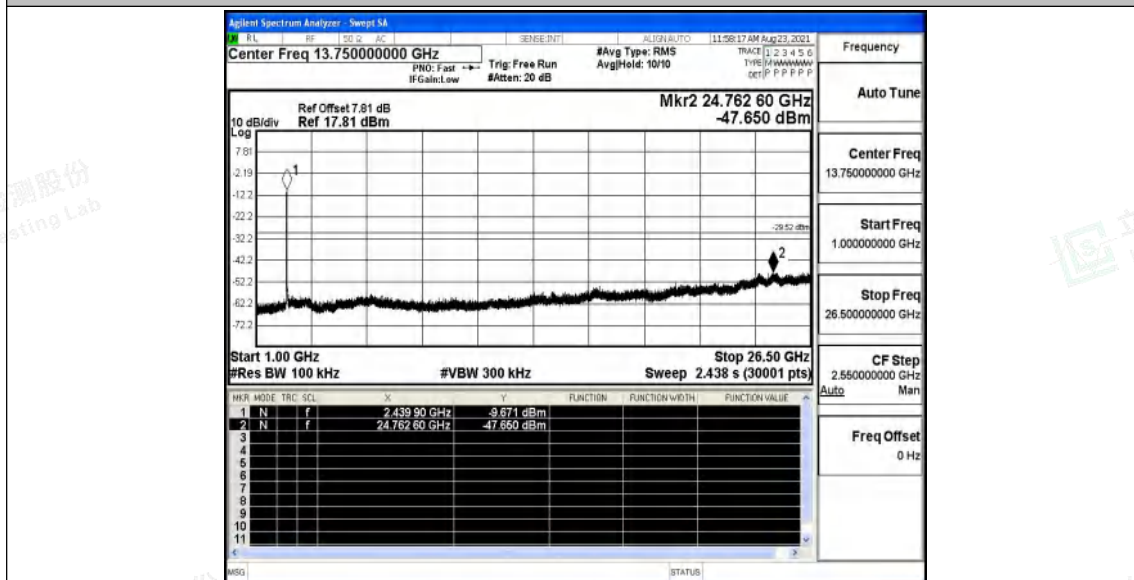
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference

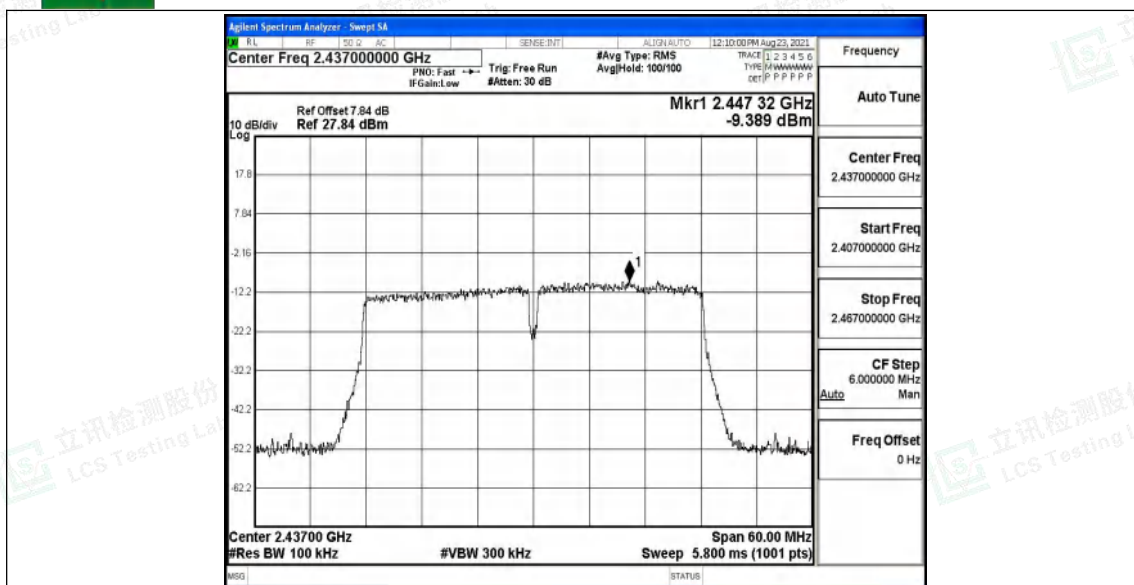


Shenzhen LCS Compliance Testing Laboratory Ltd.

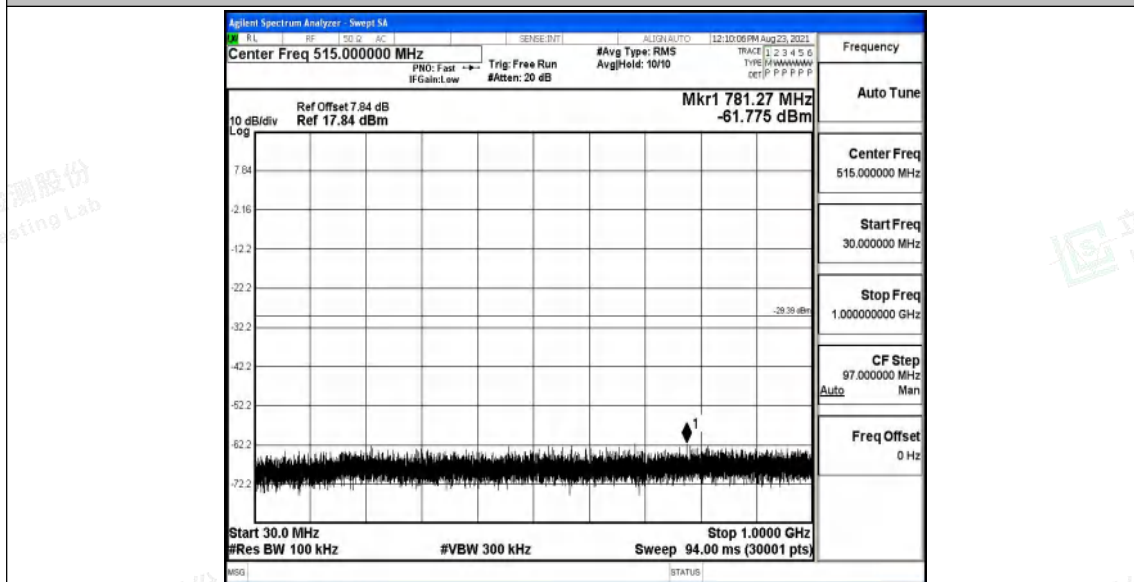
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity

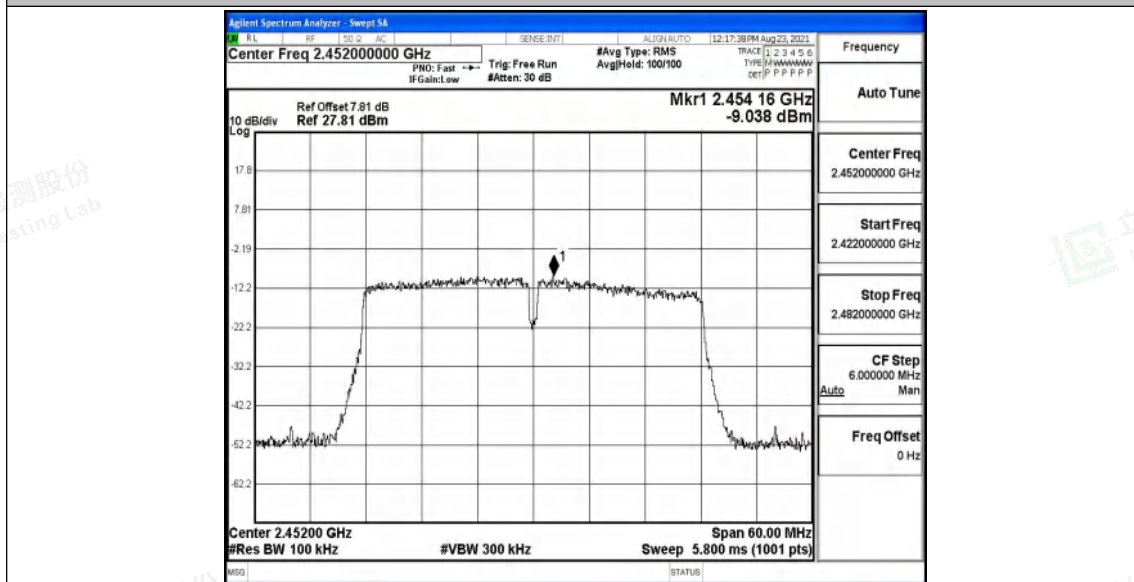
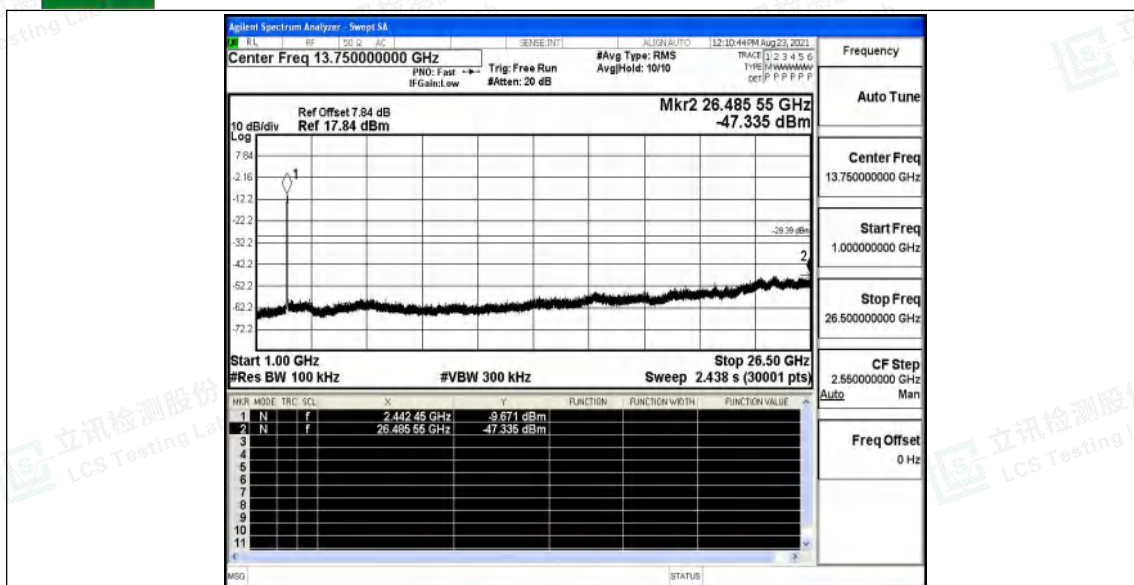


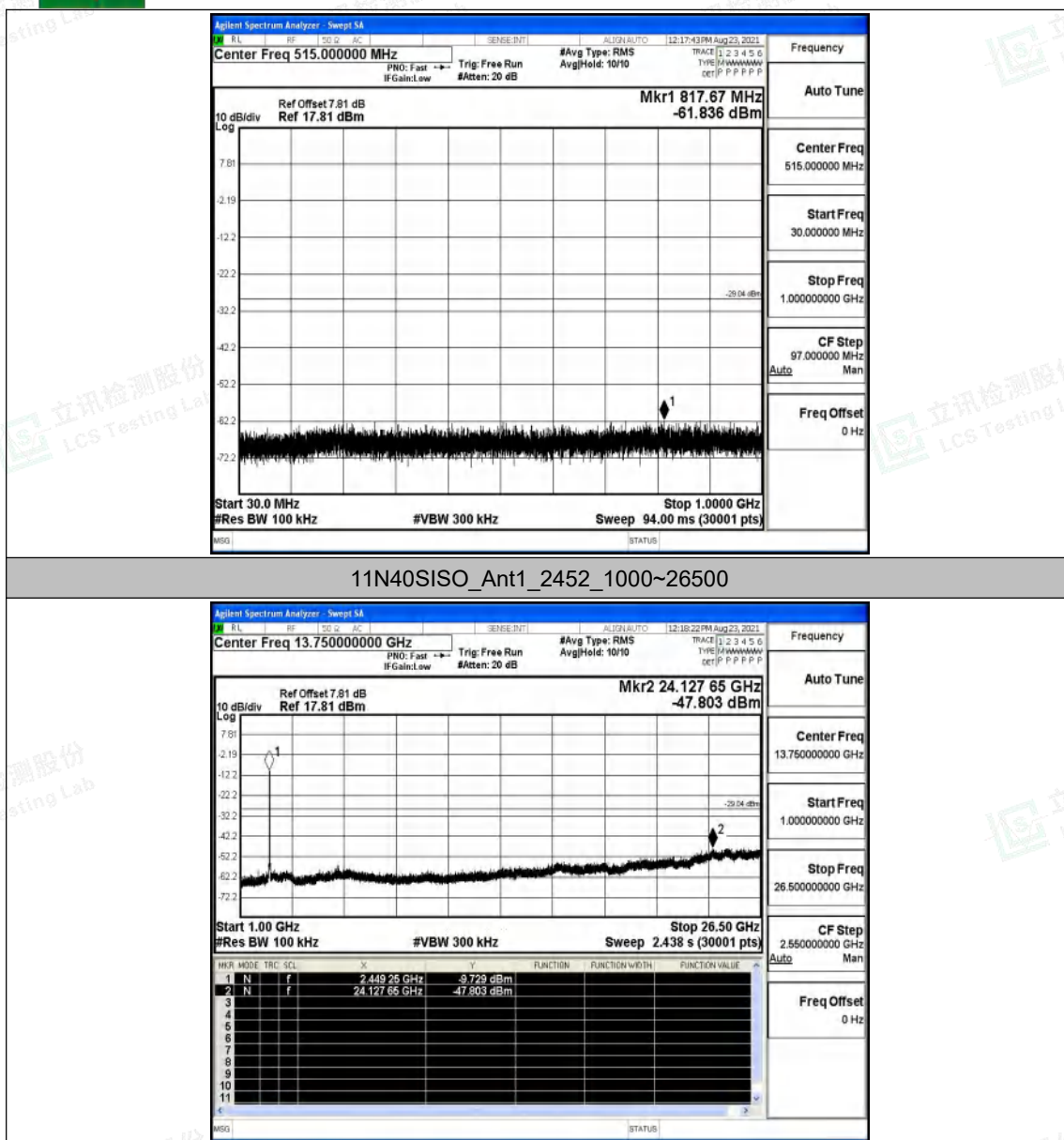
11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500







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C.6 Duty Cycle

Test Result

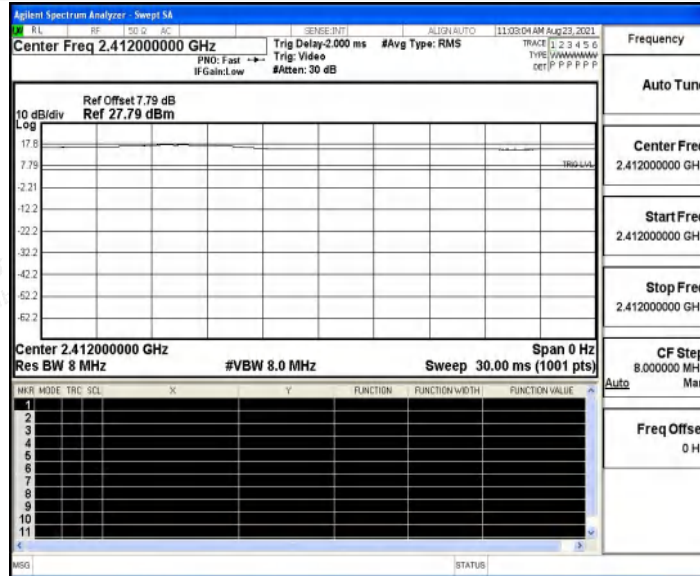
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2462	30.00	30.00	100.00	---	PASS
11G	Ant1	2412	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2462	30.00	30.00	100.00	---	PASS
11N20SISO	Ant1	2412	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2462	30.00	30.00	100.00	---	PASS
11N40SISO	Ant1	2422	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2452	30.00	30.00	100.00	---	PASS



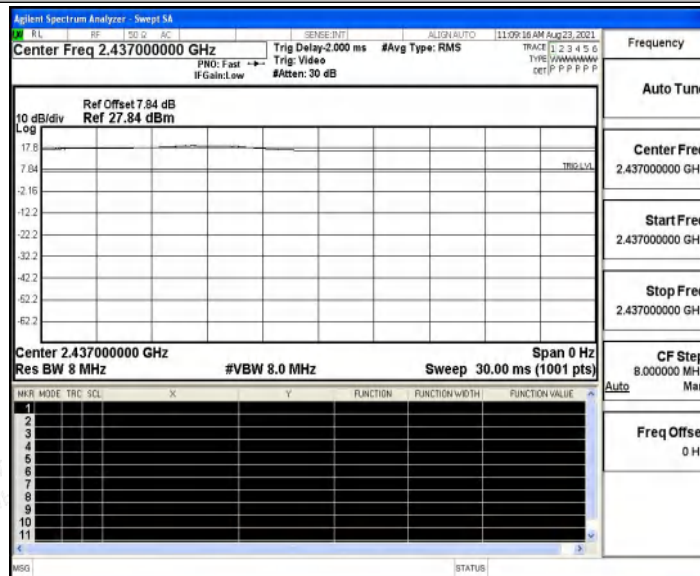


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

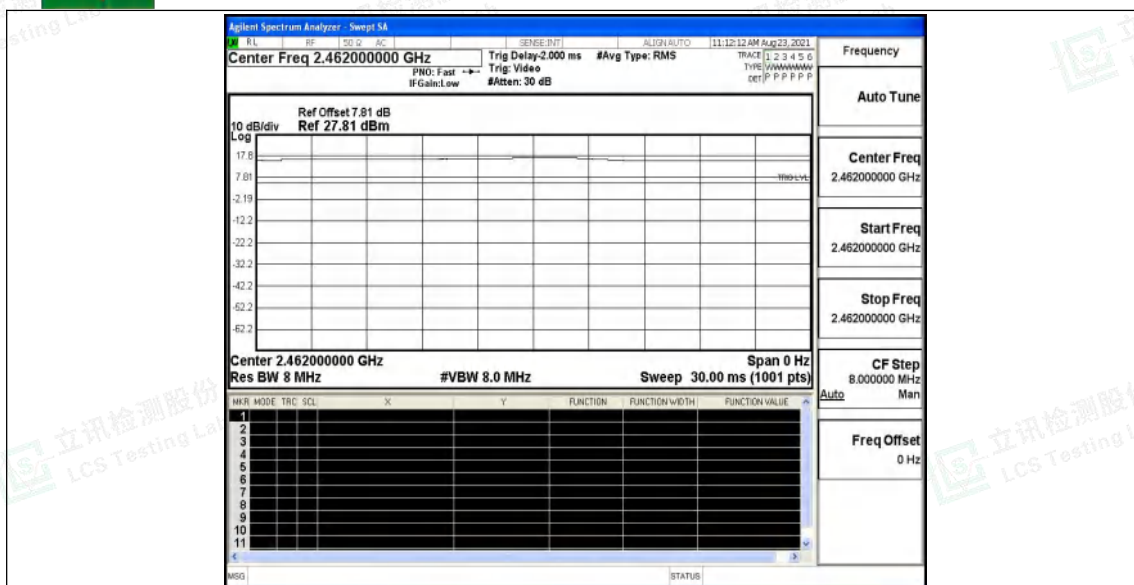


Shenzhen LCS Compliance Testing Laboratory Ltd.

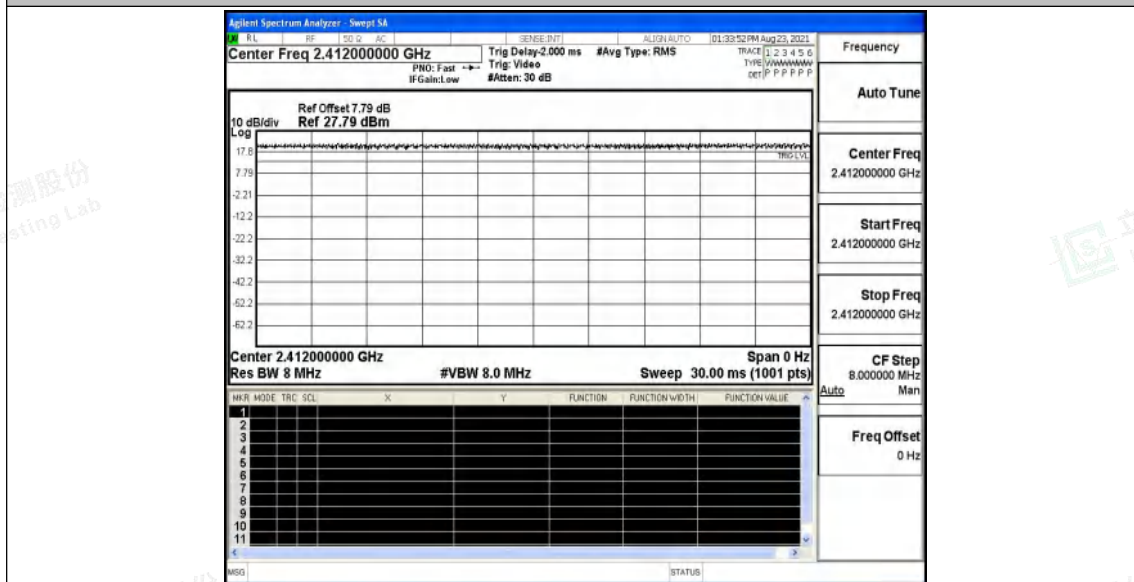
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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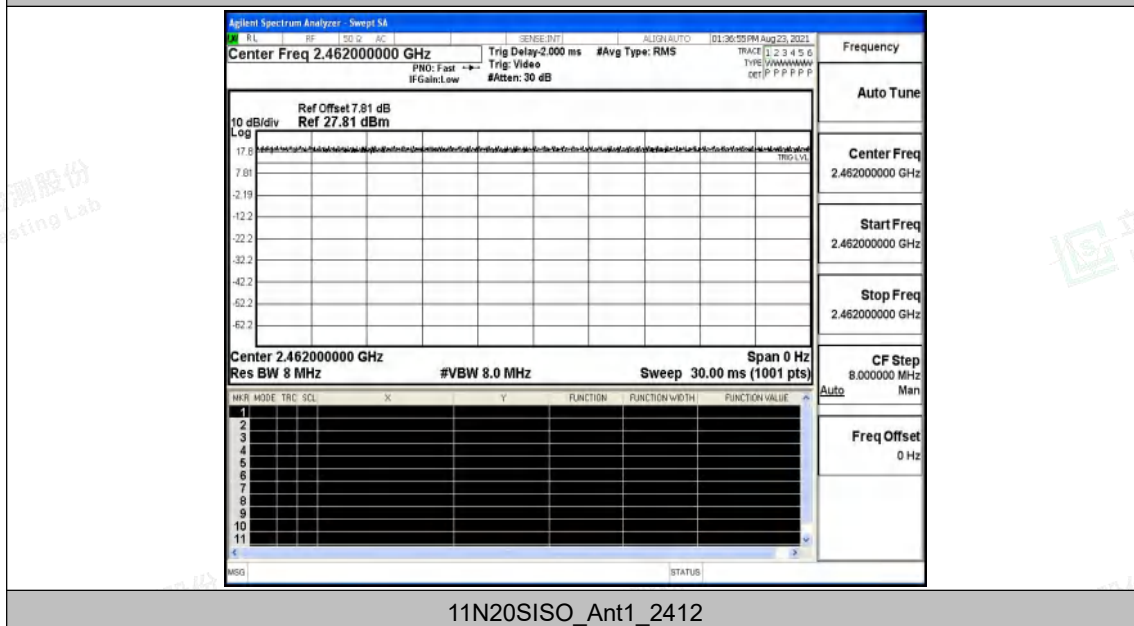
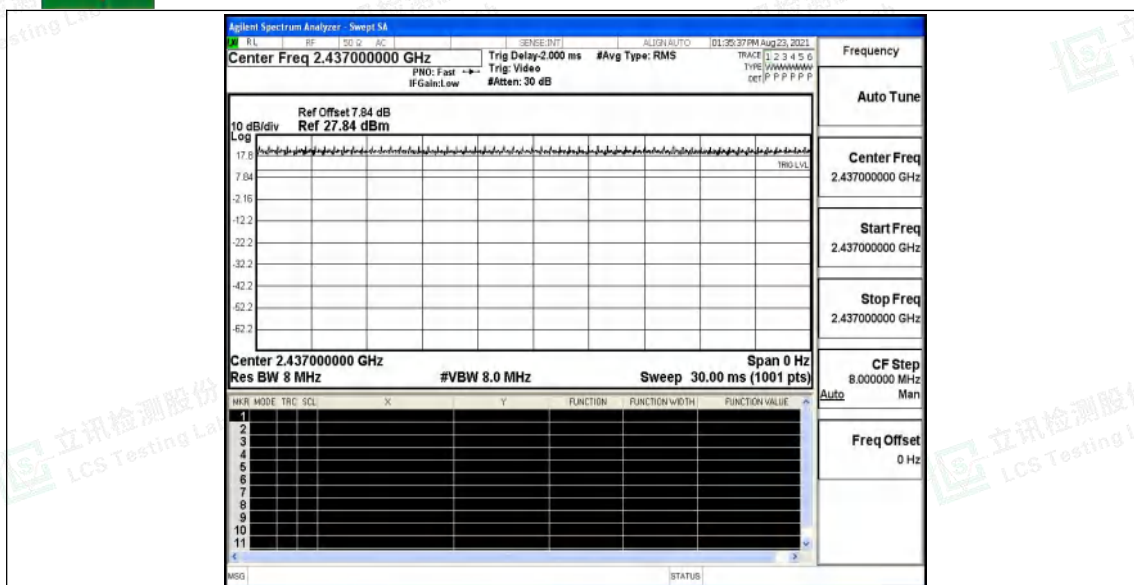


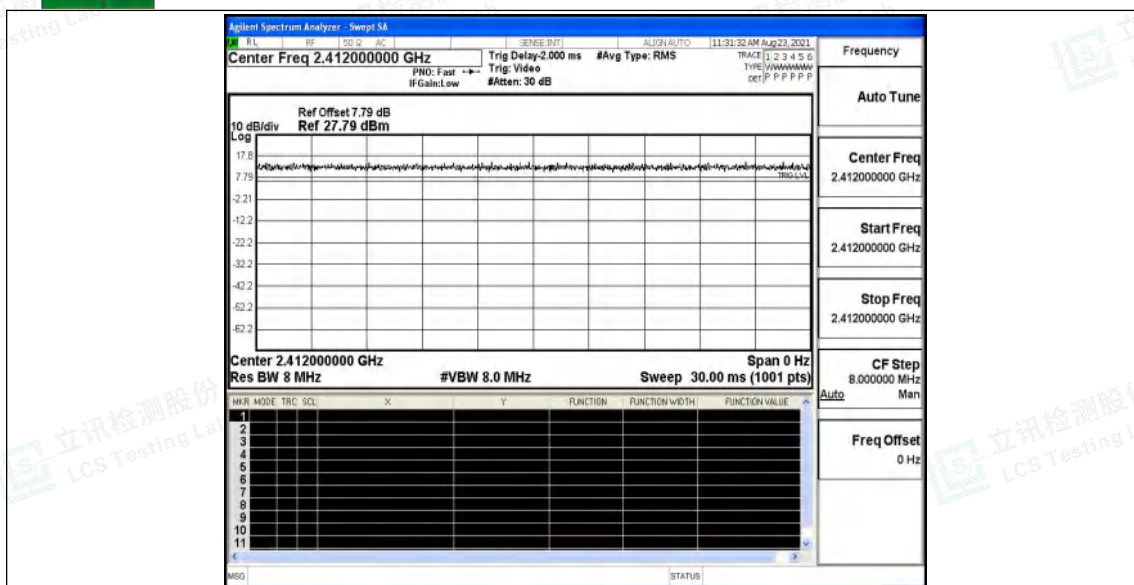
11G_Ant1_2412



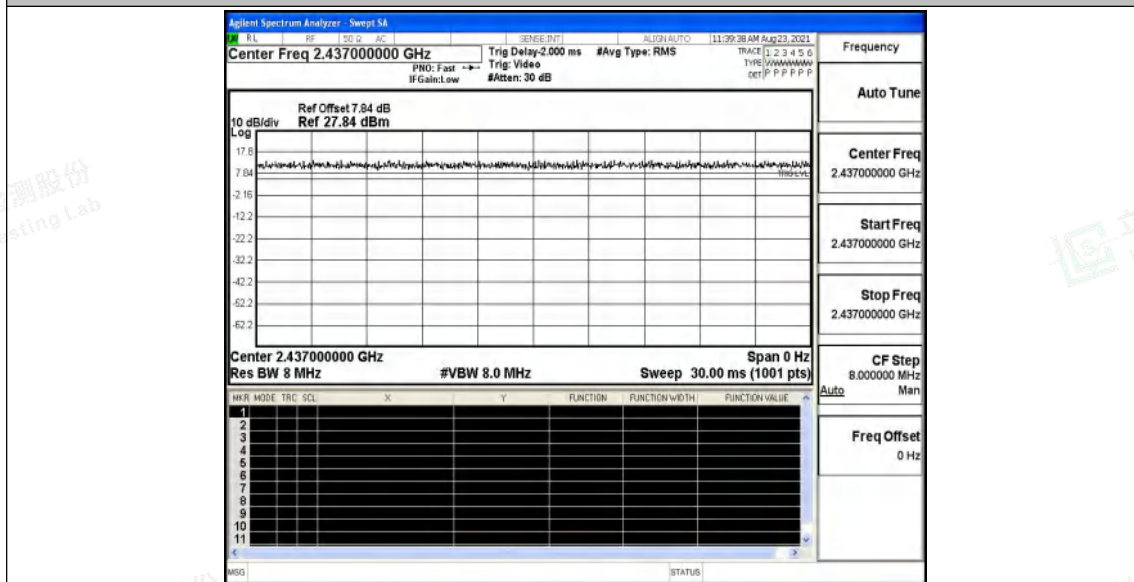
11G_Ant1_2437





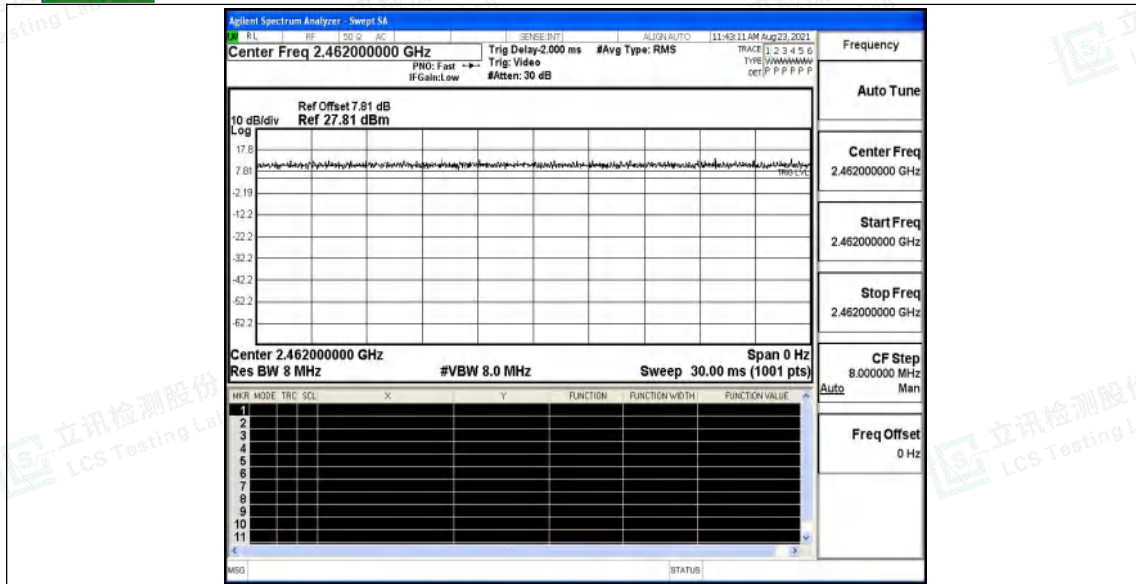


11N20SISO_Ant1_2437

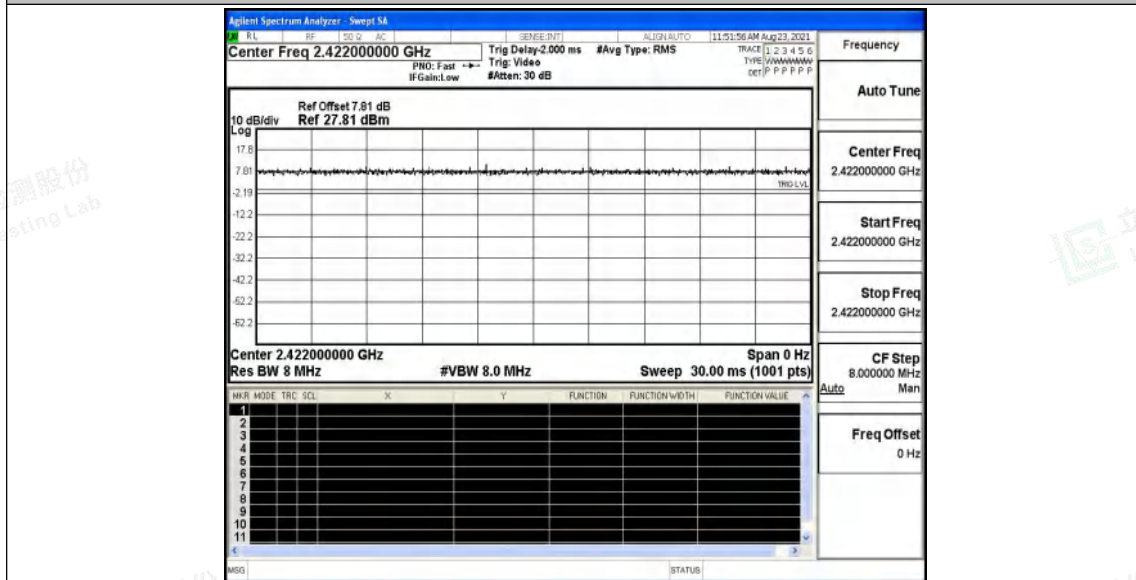


11N20SISO_Ant1_2462



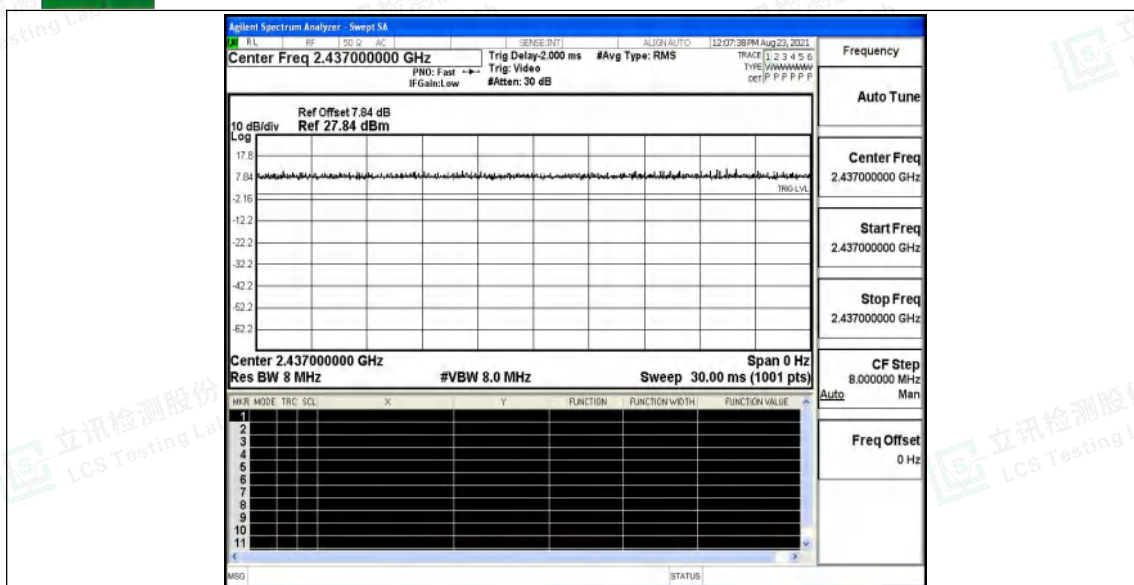


11N40SISO_Ant1_2422

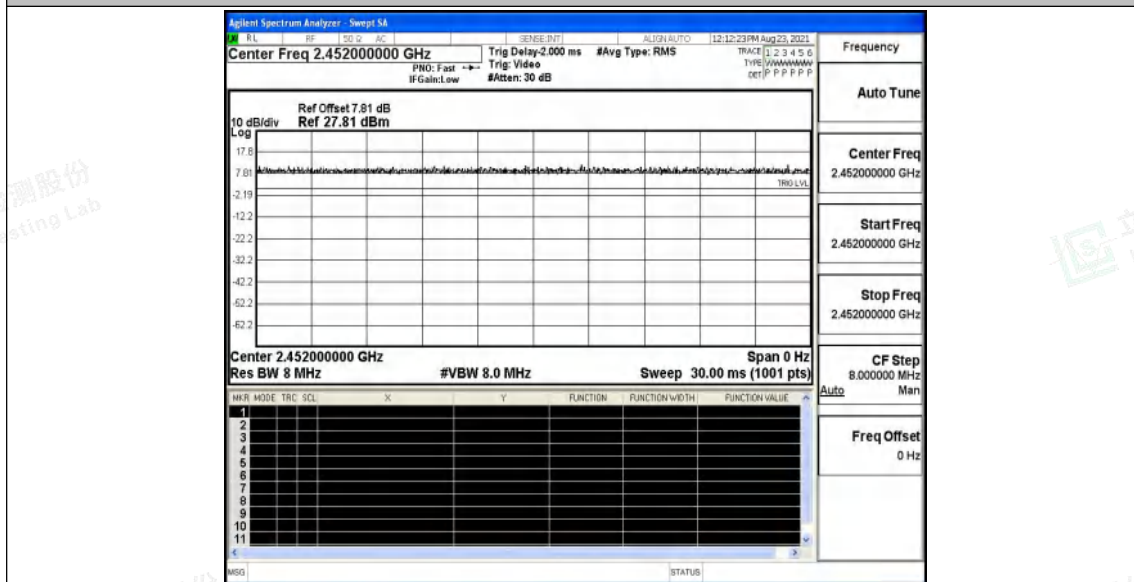


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





C.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	-49.47	≤-41.20	45.73	≤54	PASS
				AV	2389.960	-49.01	≤-41.20	46.19	≤54	PASS
				AV	2390.000	-49.01	≤-41.20	46.19	≤54	PASS
				Peak	2310.000	-44.99	≤-21.20	50.21	≤74	PASS
				Peak	2382.810	-40.17	≤-21.20	55.03	≤74	PASS
				Peak	2390.000	-43.95	≤-21.20	51.25	≤74	PASS
		High	2462	AV	2483.500	-48.08	≤-41.20	47.12	≤54	PASS
				AV	2488.070	-47.14	≤-41.20	48.06	≤54	PASS
				AV	2500.000	-48.49	≤-41.20	46.71	≤54	PASS
				Peak	2483.500	-44.04	≤-21.20	51.16	≤74	PASS
				Peak	2484.770	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2500.000	-41.09	≤-21.20	54.11	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.91	≤-41.20	46.29	≤54	PASS
				AV	2388.270	-48.26	≤-41.20	46.94	≤54	PASS
				AV	2390.000	-48.38	≤-41.20	46.82	≤54	PASS
				Peak	2310.000	-42.23	≤-21.20	52.97	≤74	PASS
				Peak	2344.720	-39.14	≤-21.20	56.06	≤74	PASS
				Peak	2390.000	-42.86	≤-21.20	52.34	≤74	PASS
		High	2462	AV	2483.500	-47.08	≤-41.20	48.12	≤54	PASS
				AV	2487.960	-44.72	≤-41.20	50.48	≤54	PASS
				AV	2500.000	-47.81	≤-41.20	47.39	≤54	PASS
				Peak	2483.500	-40.45	≤-21.20	54.75	≤74	PASS
				Peak	2487.520	-37.46	≤-21.20	57.74	≤74	PASS
				Peak	2500.000	-38.67	≤-21.20	56.53	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.39	≤-41.20	45.81	≤54	PASS
				AV	2389.960	-48.9	≤-41.20	46.30	≤54	PASS
				AV	2390.000	-48.9	≤-41.20	46.30	≤54	PASS
				Peak	2310.000	-45.13	≤-21.20	50.07	≤74	PASS
				Peak	2334.970	-38.82	≤-21.20	56.38	≤74	PASS
				Peak	2390.000	-44.94	≤-21.20	50.26	≤74	PASS
		High	2462	AV	2483.500	-47.89	≤-41.20	47.31	≤54	PASS
				AV	2487.960	-46.19	≤-41.20	49.01	≤54	PASS
				AV	2500.000	-48.42	≤-41.20	46.78	≤54	PASS





11N40SIS O	Ant1	Low	2422	Peak	2483.500	-43.26	≤ -21.20	51.94	≤ 74	PASS
				Peak	2488.290	-39.17	≤ -21.20	56.03	≤ 74	PASS
				Peak	2500.000	-41.02	≤ -21.20	54.18	≤ 74	PASS
				AV	2310.000	-49.37	≤ -41.20	45.83	≤ 54	PASS
				AV	2389.440	-48.88	≤ -41.20	46.32	≤ 54	PASS
				AV	2390.000	-48.89	≤ -41.20	46.31	≤ 54	PASS
		High	2452	Peak	2310.000	-43.64	≤ -21.20	51.56	≤ 74	PASS
				Peak	2349.400	-39.54	≤ -21.20	55.66	≤ 74	PASS
				Peak	2390.000	-45.04	≤ -21.20	50.16	≤ 74	PASS
				AV	2483.500	-47.74	≤ -41.20	47.46	≤ 54	PASS
				AV	2483.670	-47.72	≤ -41.20	47.48	≤ 54	PASS
				AV	2500.000	-48.4	≤ -41.20	46.80	≤ 54	PASS
				Peak	2483.500	-42.33	≤ -21.20	52.87	≤ 74	PASS
				Peak	2484.990	-39.58	≤ -21.20	55.62	≤ 74	PASS
				Peak	2500.000	-42.12	≤ -21.20	53.08	≤ 74	PASS

Note:

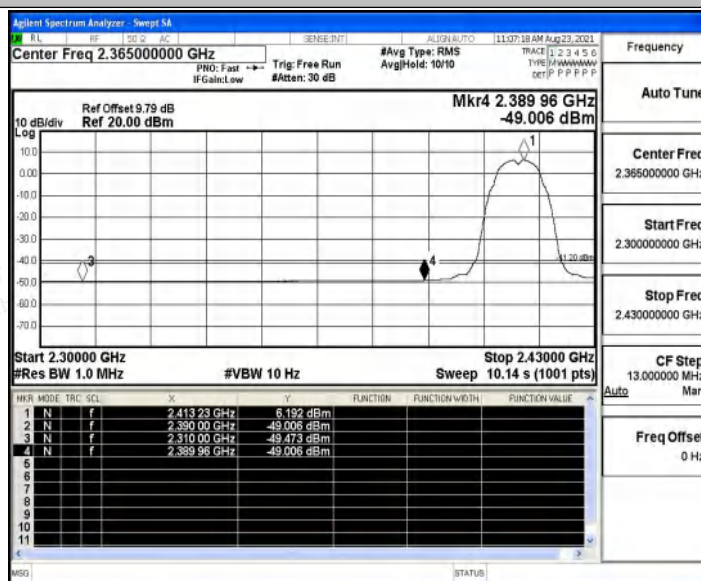
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



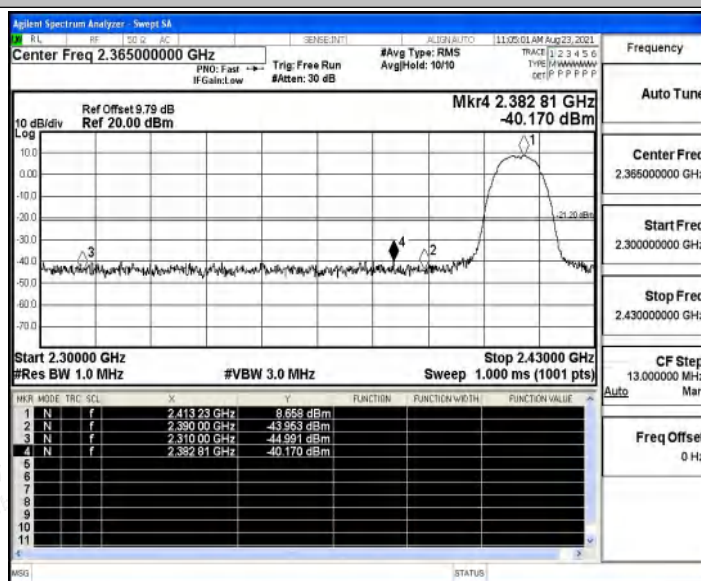


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV

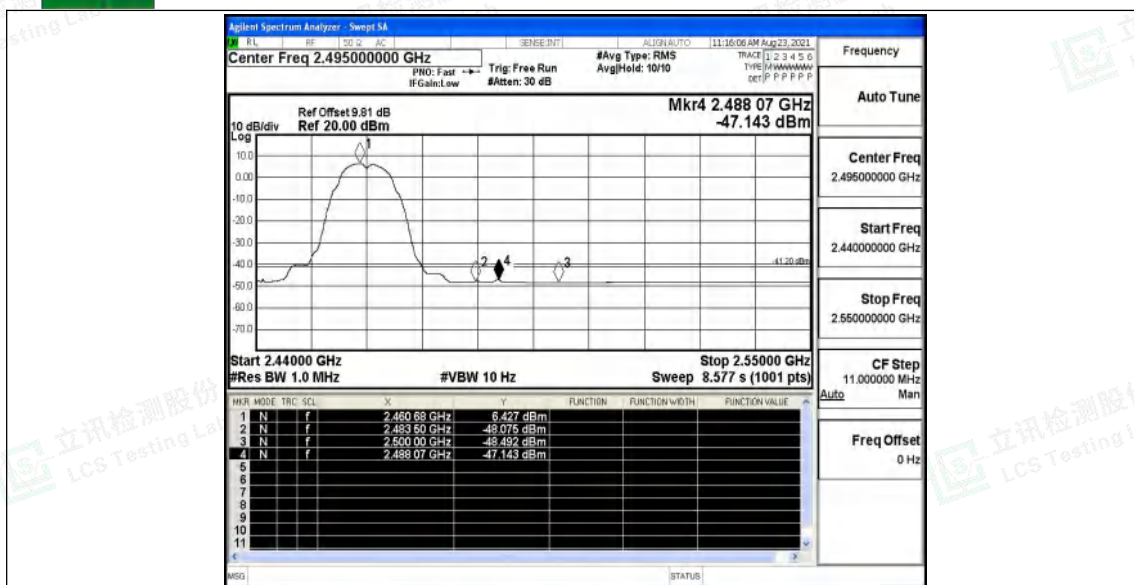


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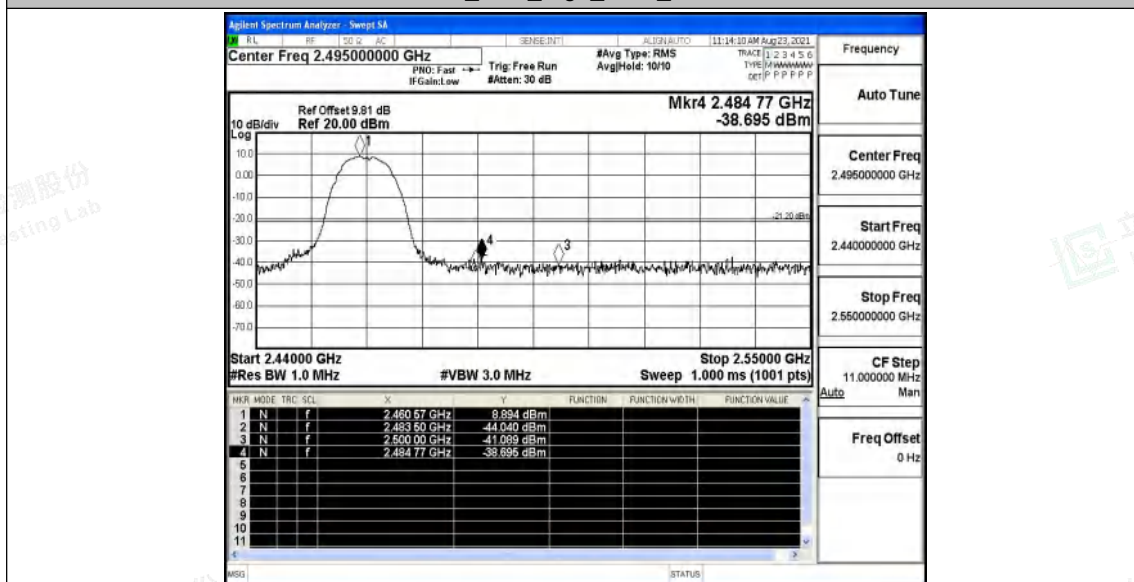
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV

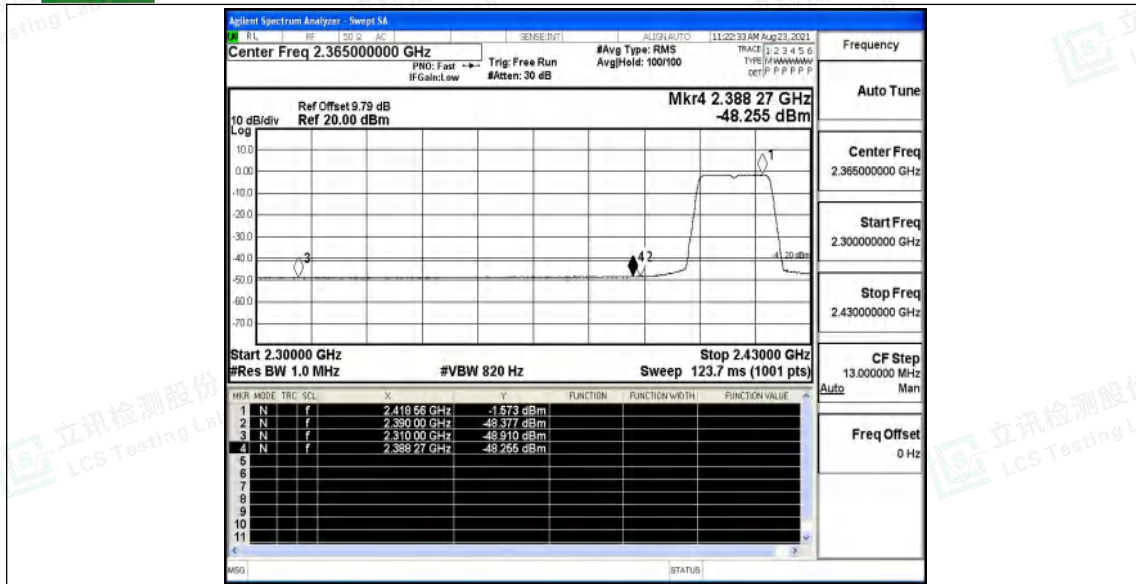


Shenzhen LCS Compliance Testing Laboratory Ltd.

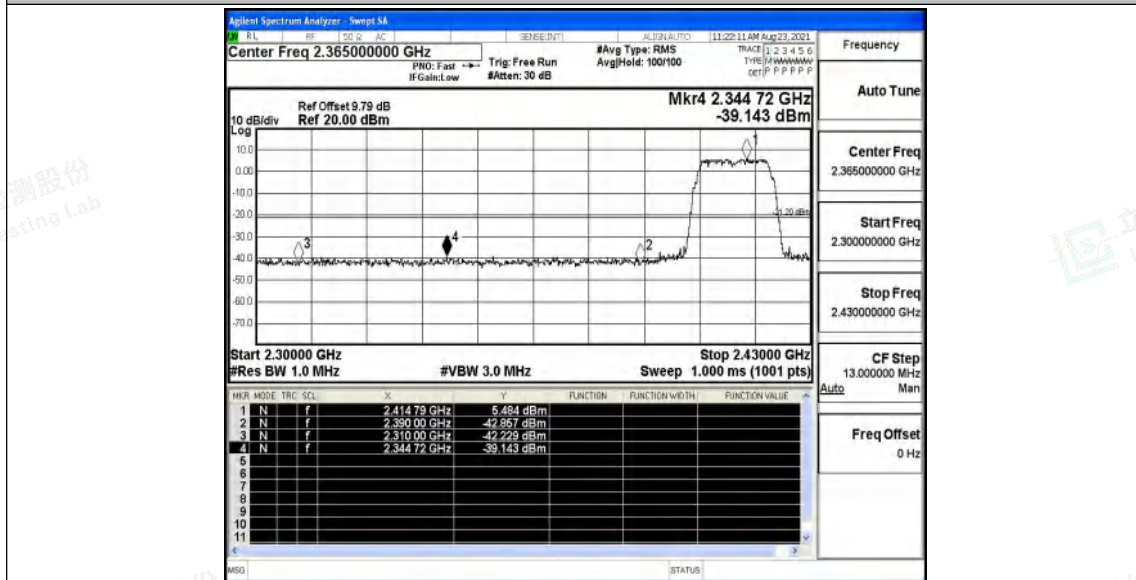
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV

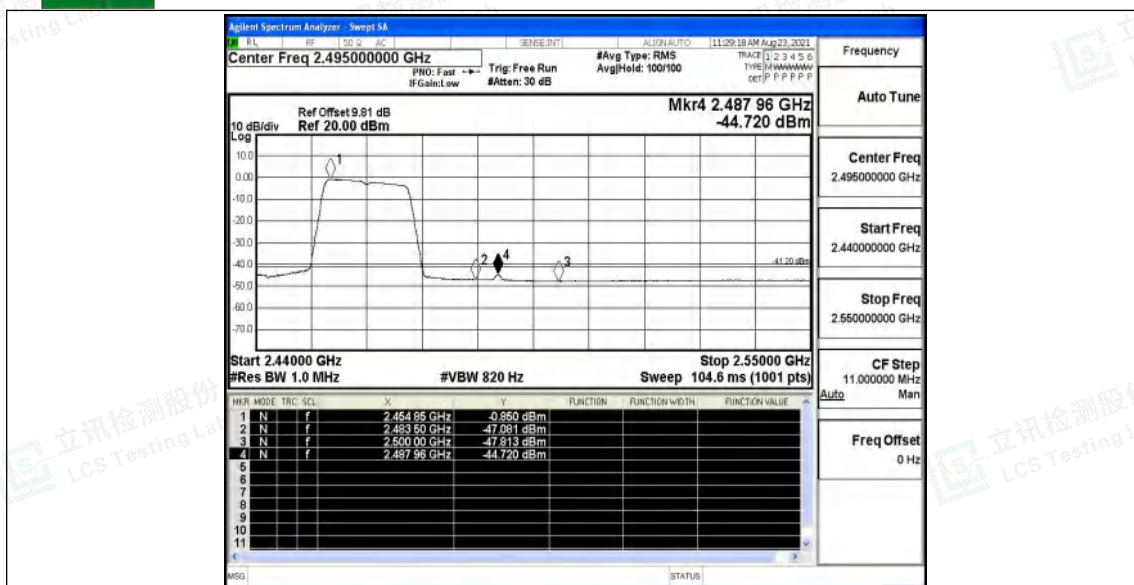


Shenzhen LCS Compliance Testing Laboratory Ltd.

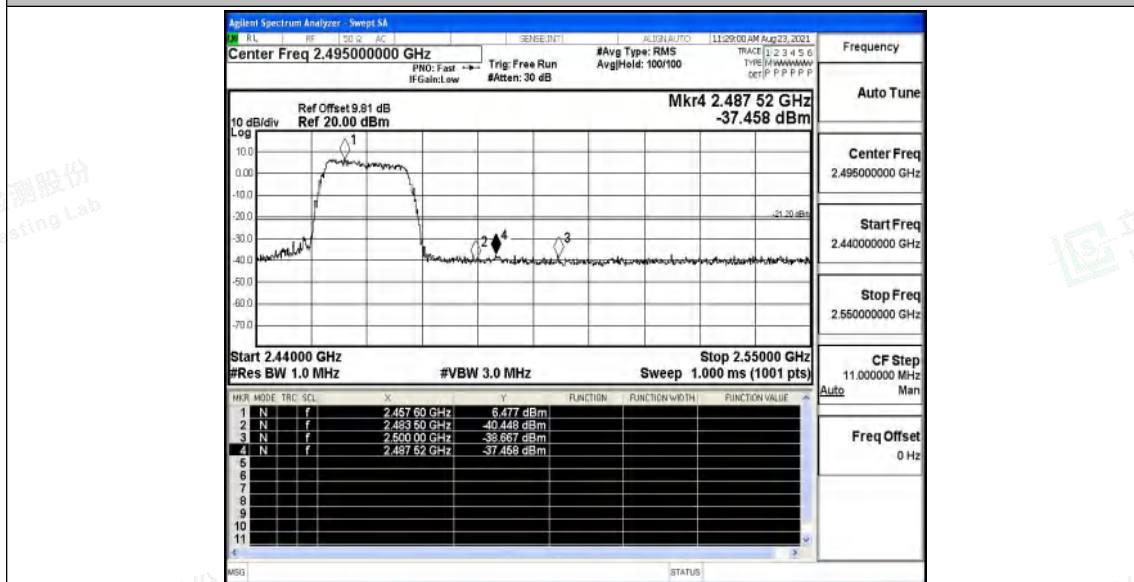
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

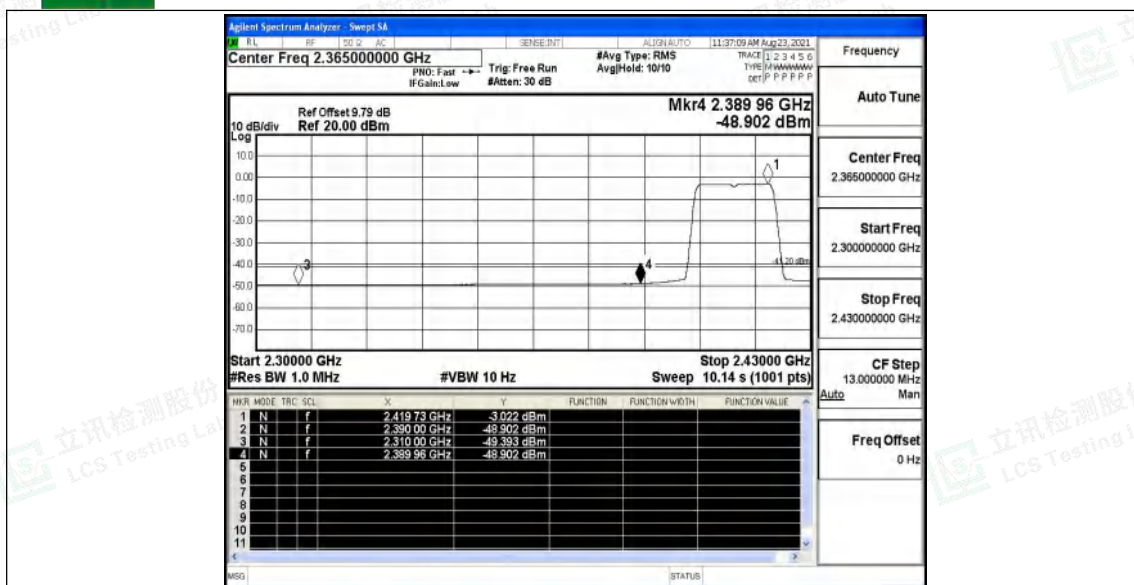


Shenzhen LCS Compliance Testing Laboratory Ltd.

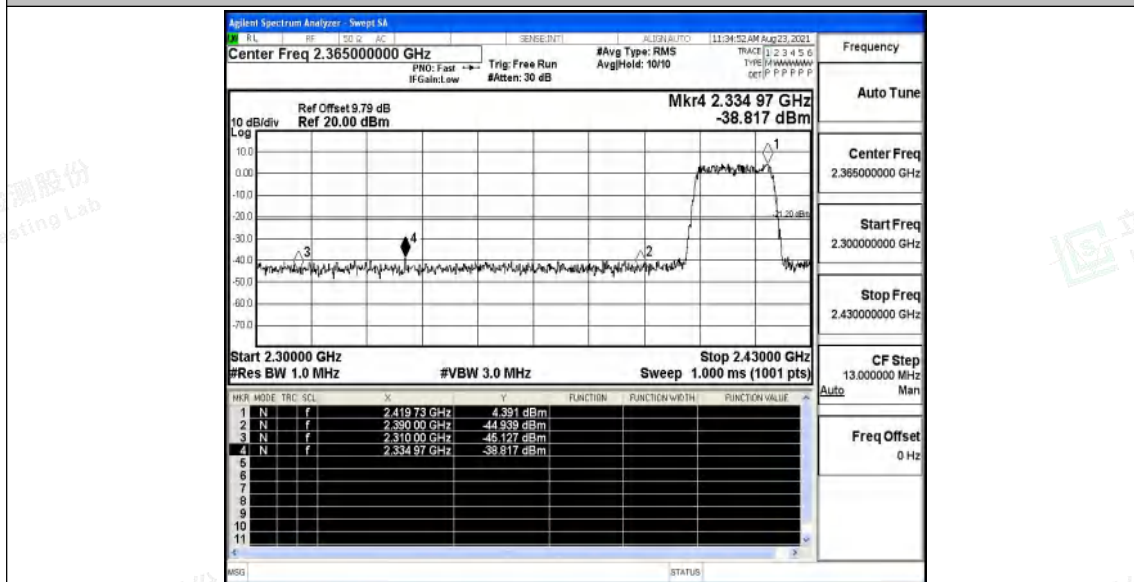
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV

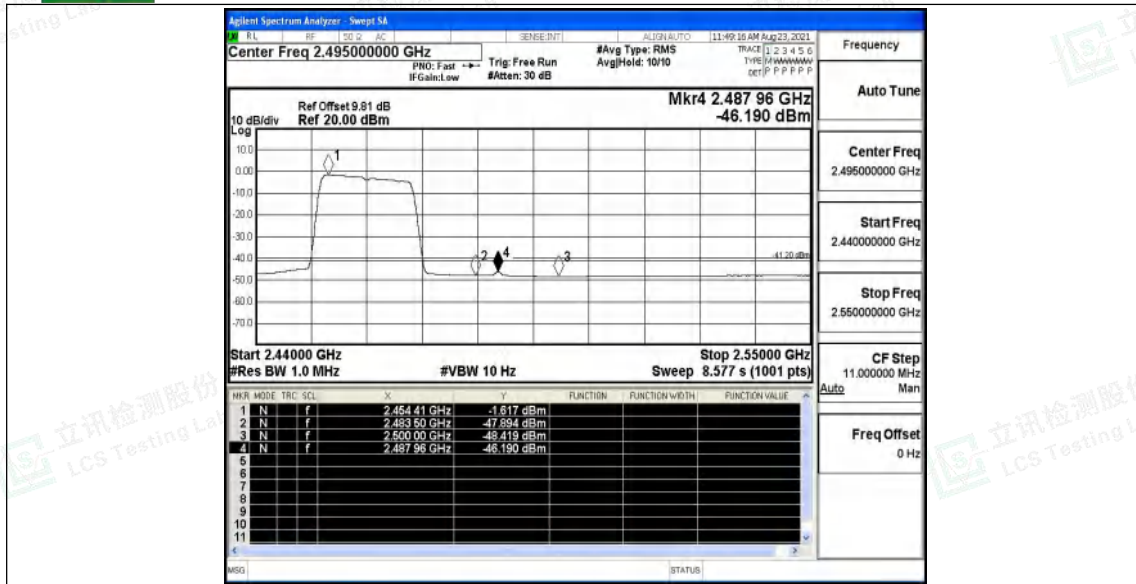


Shenzhen LCS Compliance Testing Laboratory Ltd.

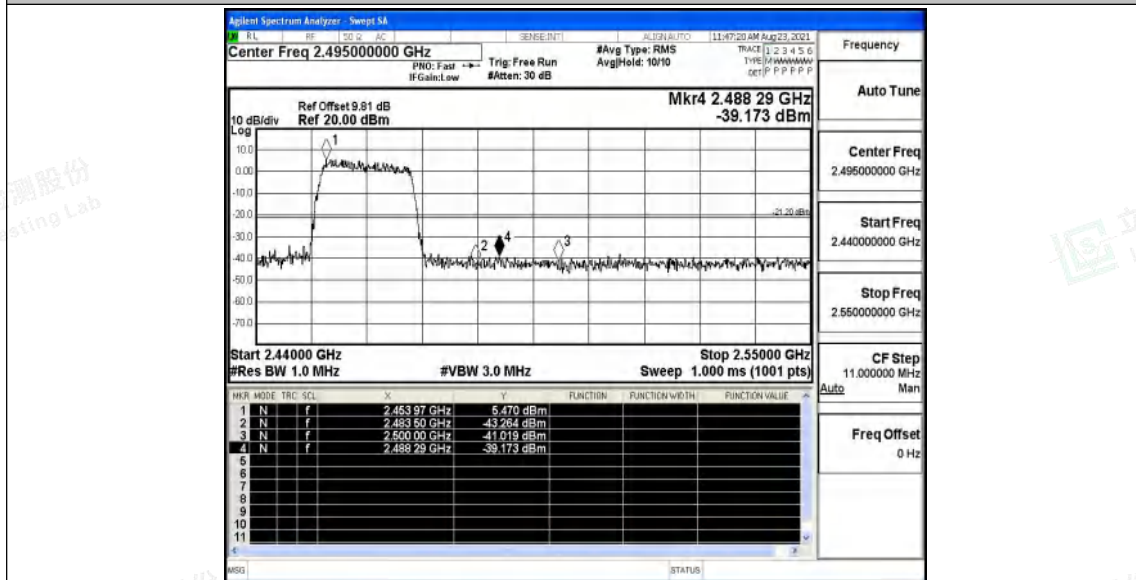
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV

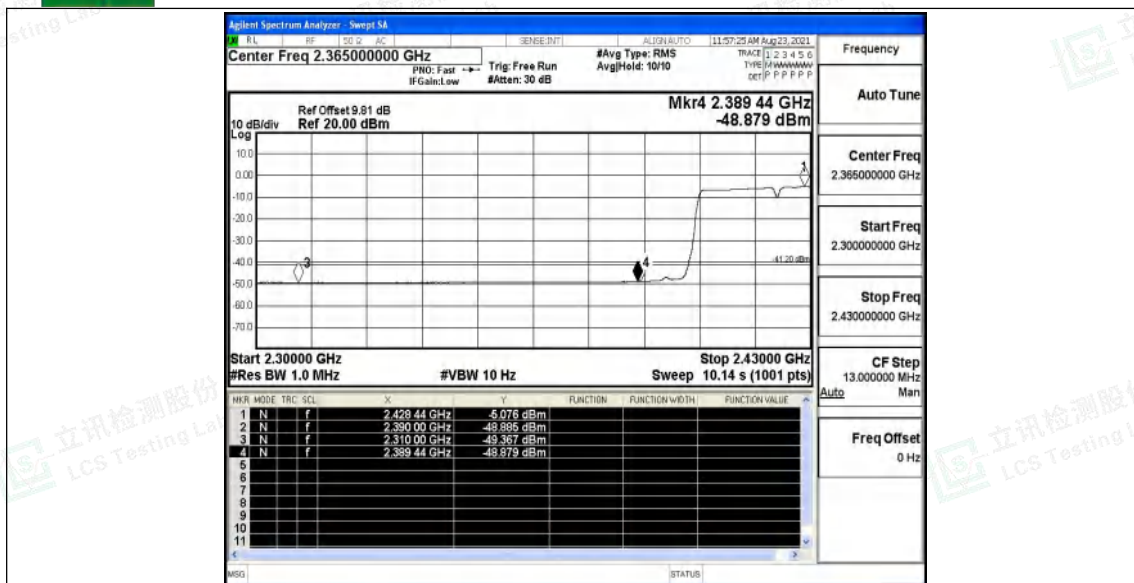


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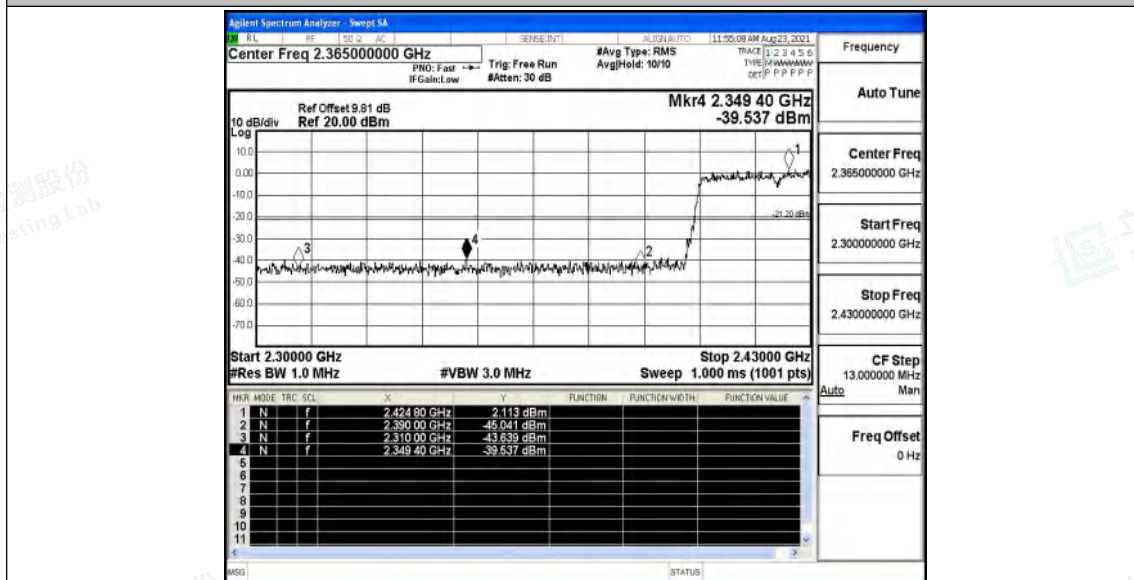
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

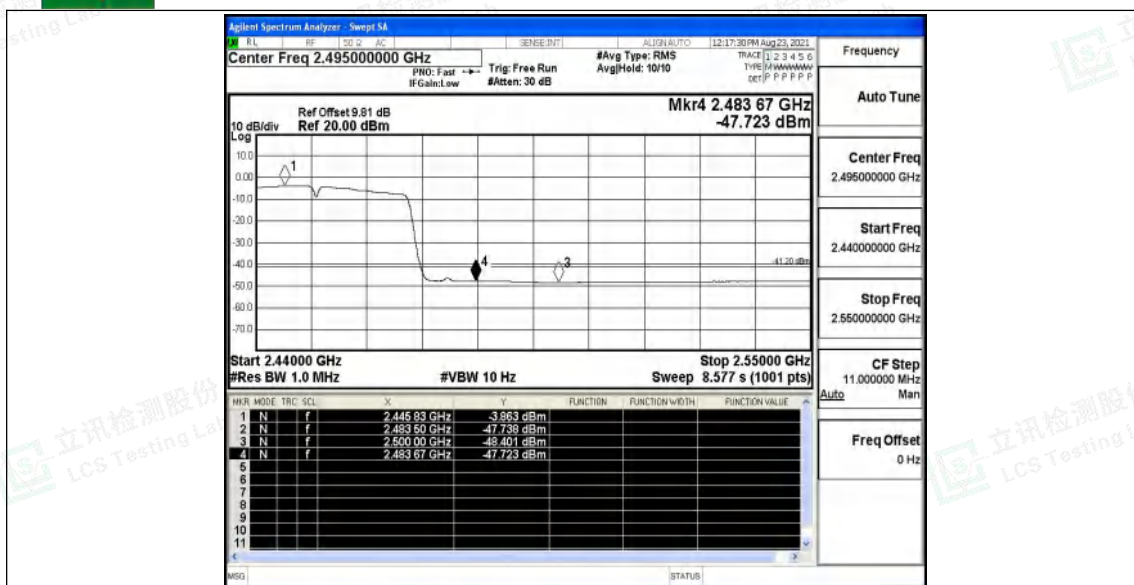


Shenzhen LCS Compliance Testing Laboratory Ltd.

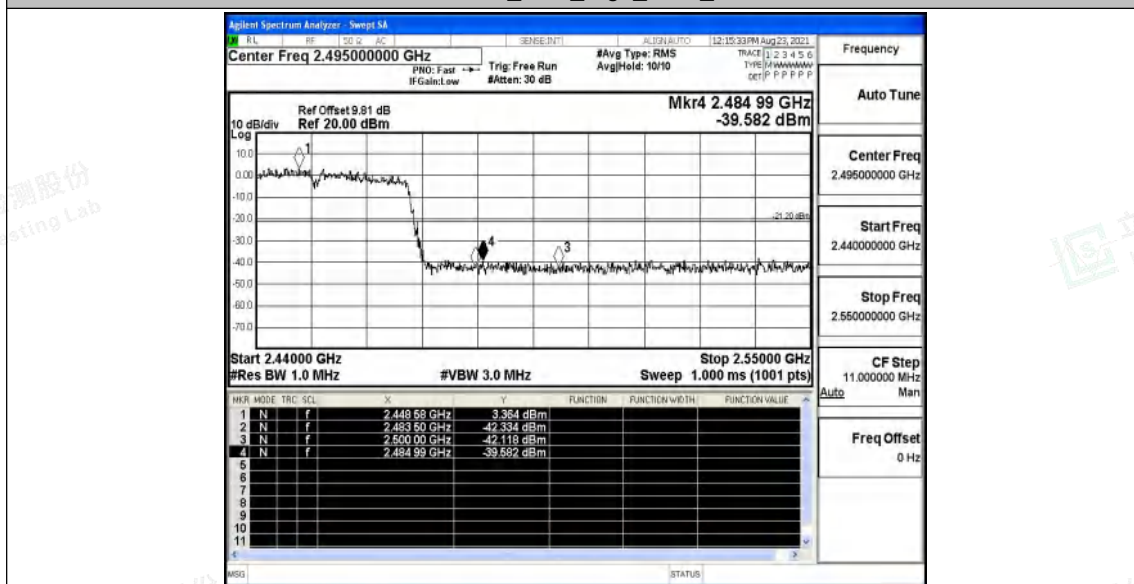
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