



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: WIMU PRO EVO

Test Model: WT200

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu





C.1 DTS Bandwidth

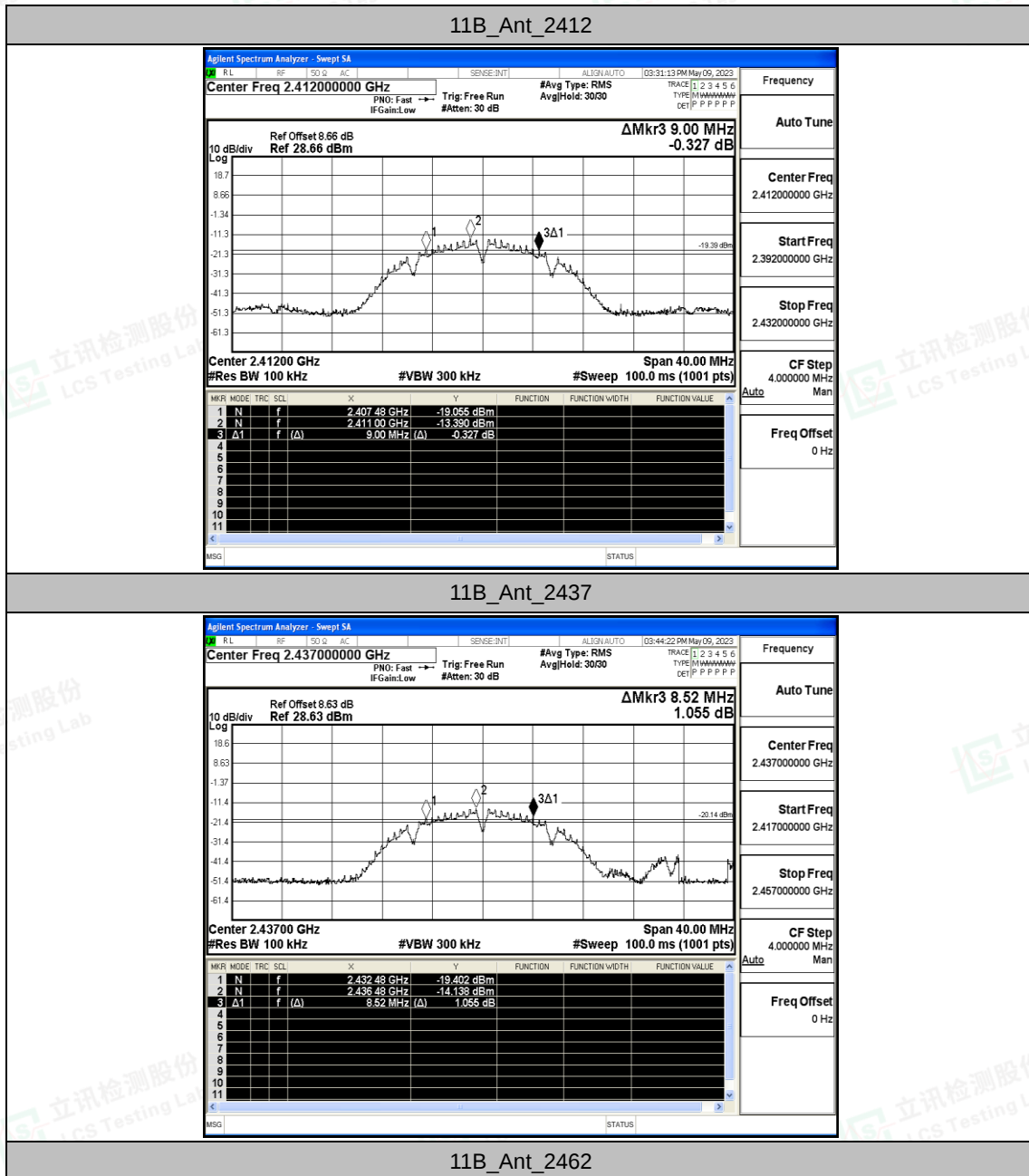
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	9.000	2407.480	2416.480	0.5	PASS
		2437	8.520	2432.480	2441.000	0.5	PASS
		2462	8.520	2457.480	2466.000	0.5	PASS
11G	Ant	2412	15.080	2404.440	2419.520	0.5	PASS
		2437	15.080	2429.440	2444.520	0.5	PASS
		2462	15.720	2453.840	2469.560	0.5	PASS
11N20SISO	Ant	2412	15.080	2404.440	2419.520	0.5	PASS
		2437	15.040	2429.480	2444.520	0.5	PASS
		2462	15.640	2453.840	2469.480	0.5	PASS





Test Graphs

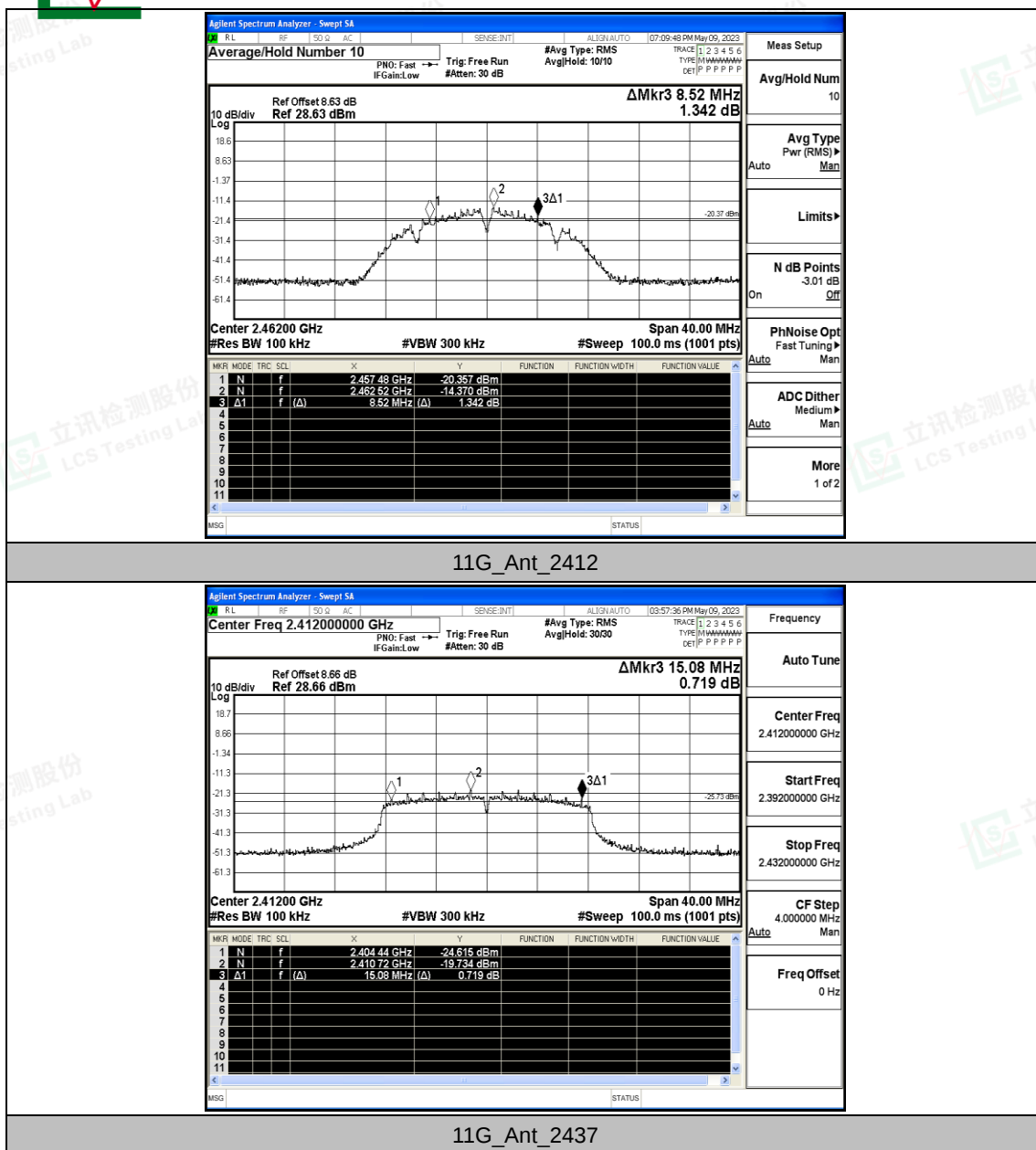


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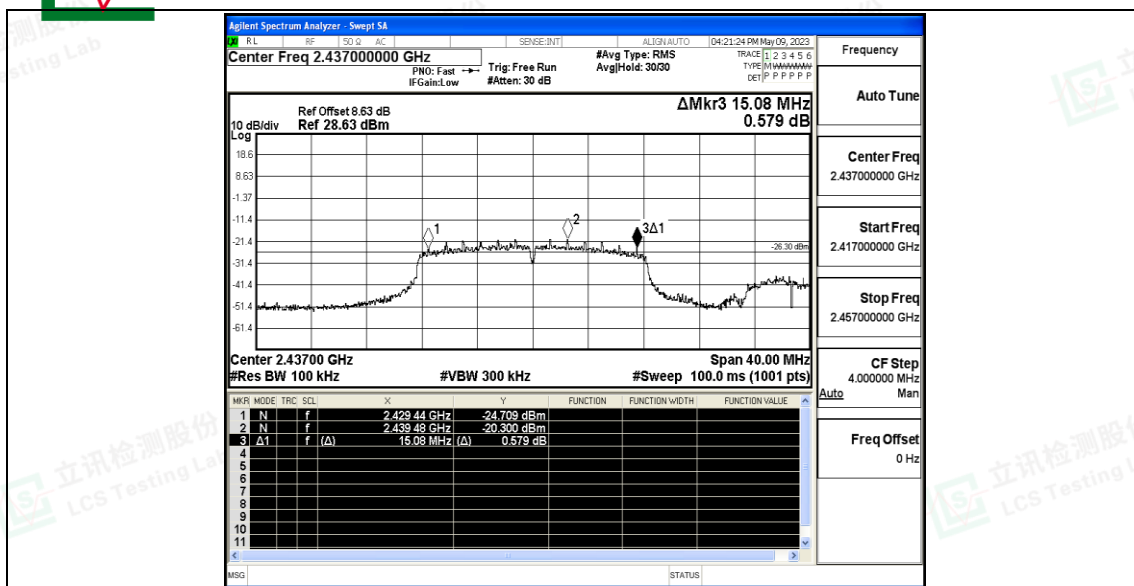


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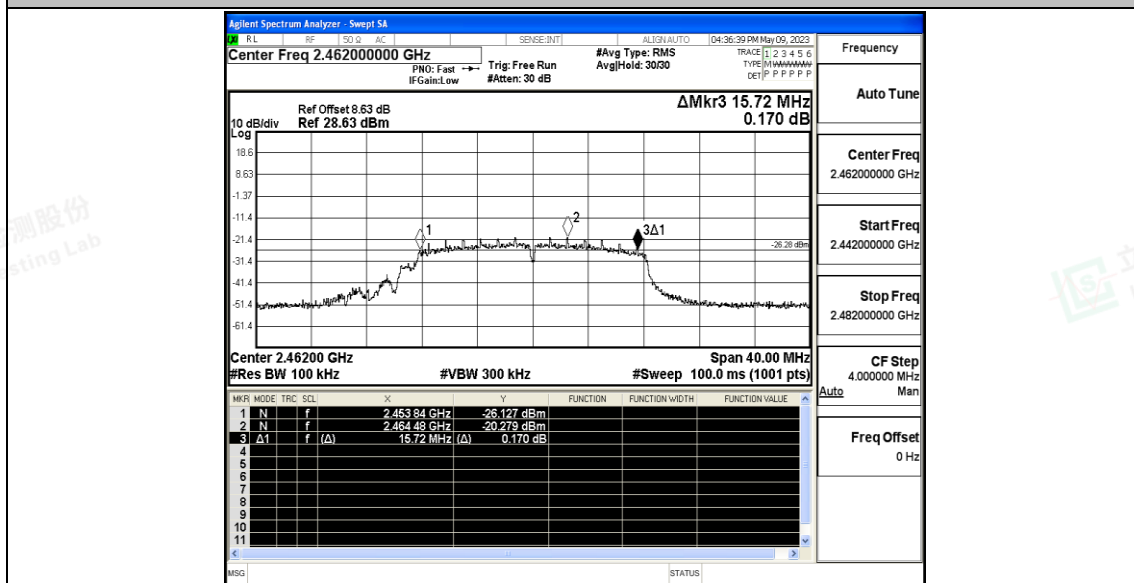
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11G_Ant_2462



11N20SISO_Ant_2412

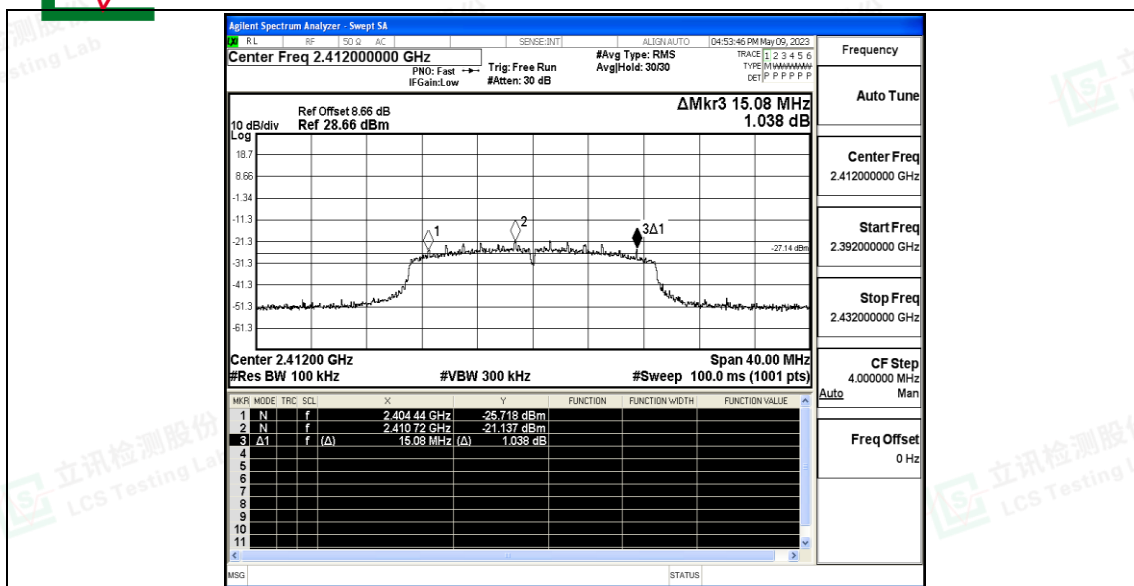


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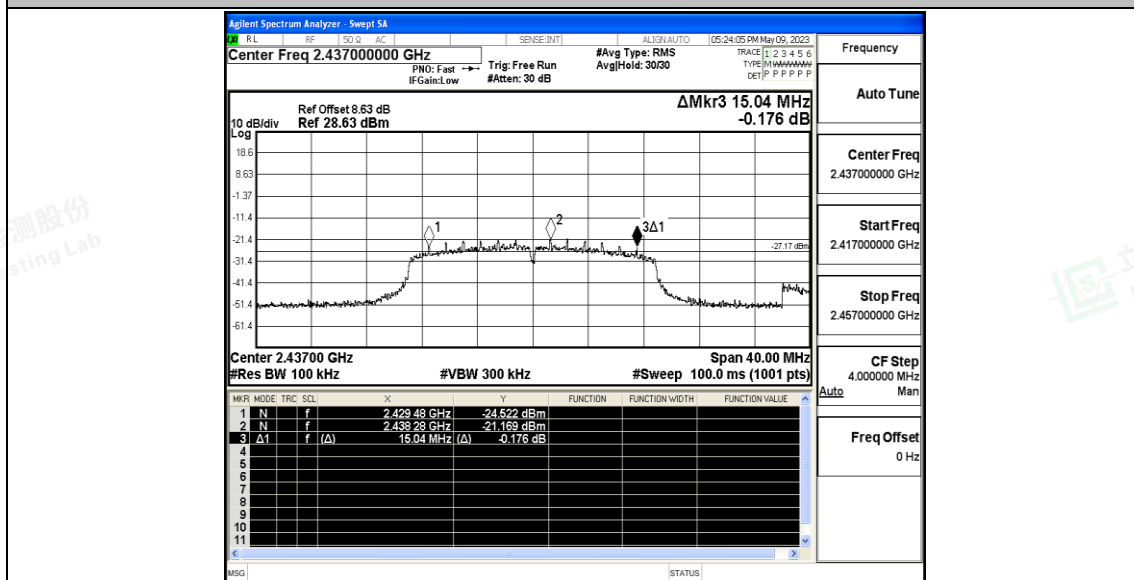
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

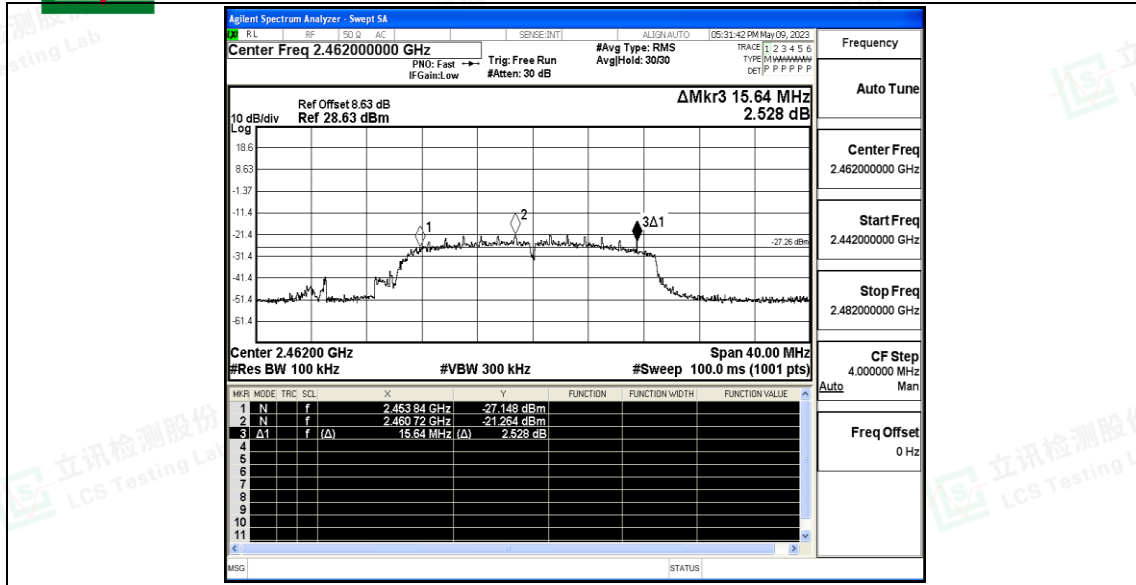


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C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant	2412	-2.12	≤30.00	PASS
		2437	-2.20	≤30.00	PASS
		2462	-2.09	≤30.00	PASS
11G	Ant	2412	-0.79	≤30.00	PASS
		2437	-1.25	≤30.00	PASS
		2462	-1.25	≤30.00	PASS
11N20SISO	Ant	2412	-2.25	≤30.00	PASS
		2437	-2.31	≤30.00	PASS
		2462	-2.41	≤30.00	PASS





C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant	2412	-28.01	≤8.00	PASS
		2437	-28.44	≤8.00	PASS
		2462	-28.05	≤8.00	PASS
11G	Ant	2412	-33.68	≤8.00	PASS
		2437	-33.99	≤8.00	PASS
		2462	-34.43	≤8.00	PASS
11N20SISO	Ant	2412	-34.46	≤8.00	PASS
		2437	-35.84	≤8.00	PASS
		2462	-35.15	≤8.00	PASS



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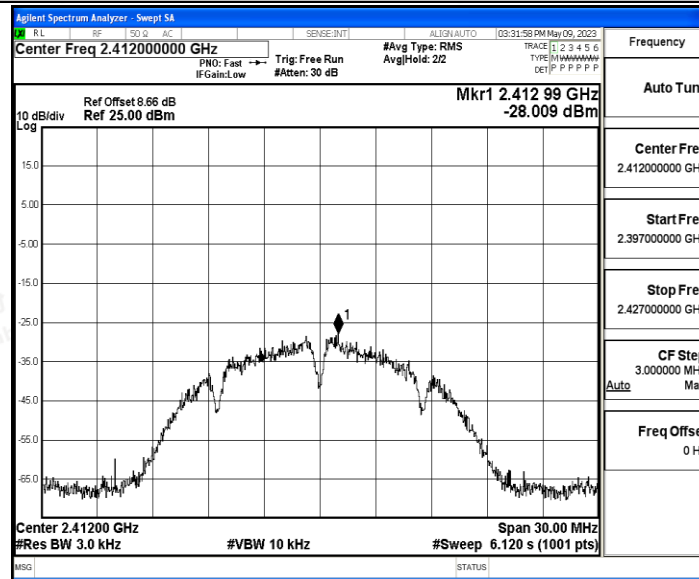
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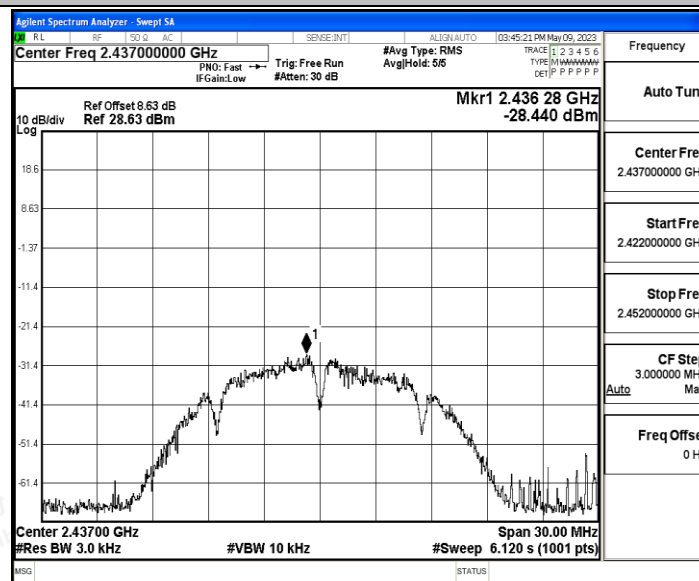


Test Graphs

11B_Ant_2412



11B_Ant_2437



11B_Ant_2462

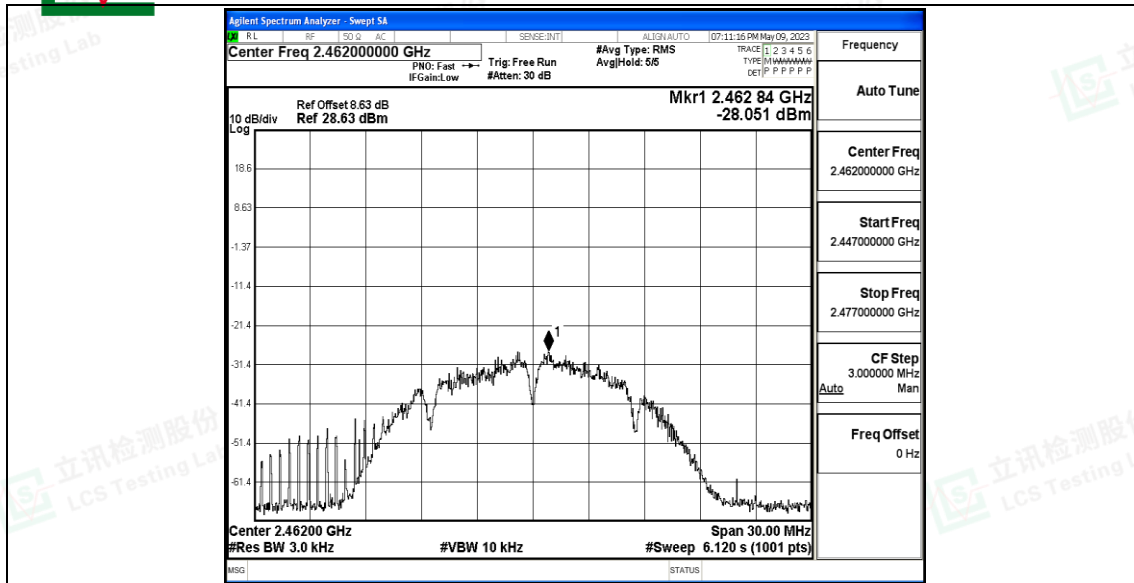


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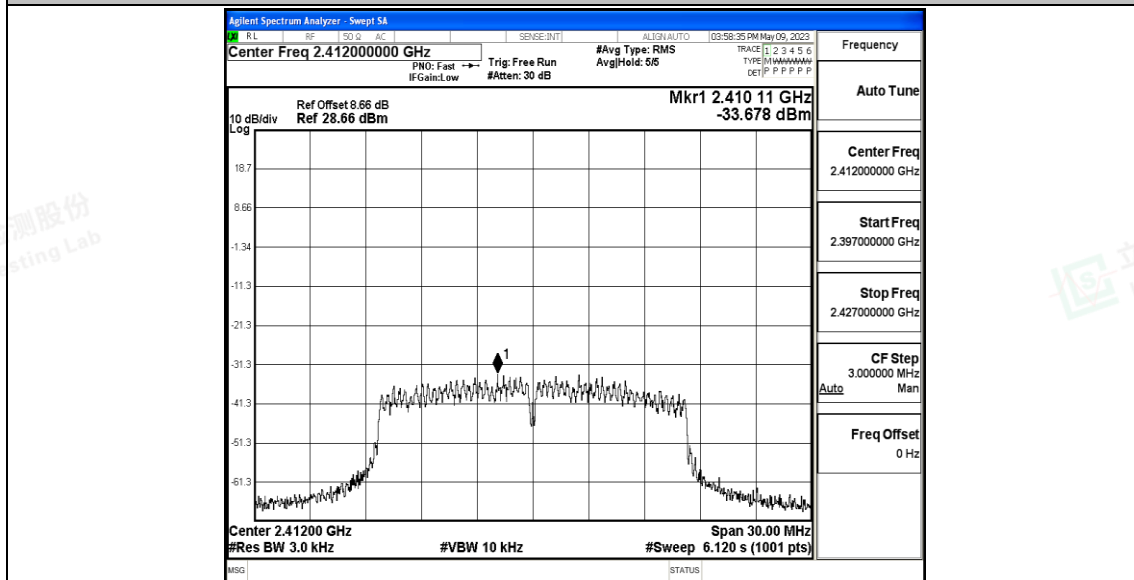
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11G_Ant_2412



11G_Ant_2437

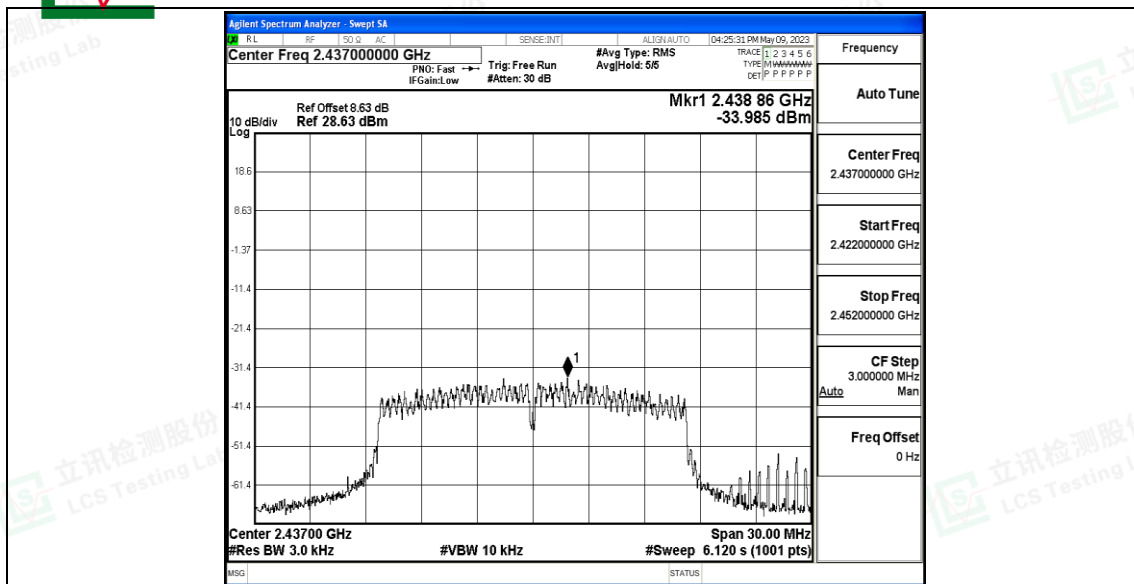


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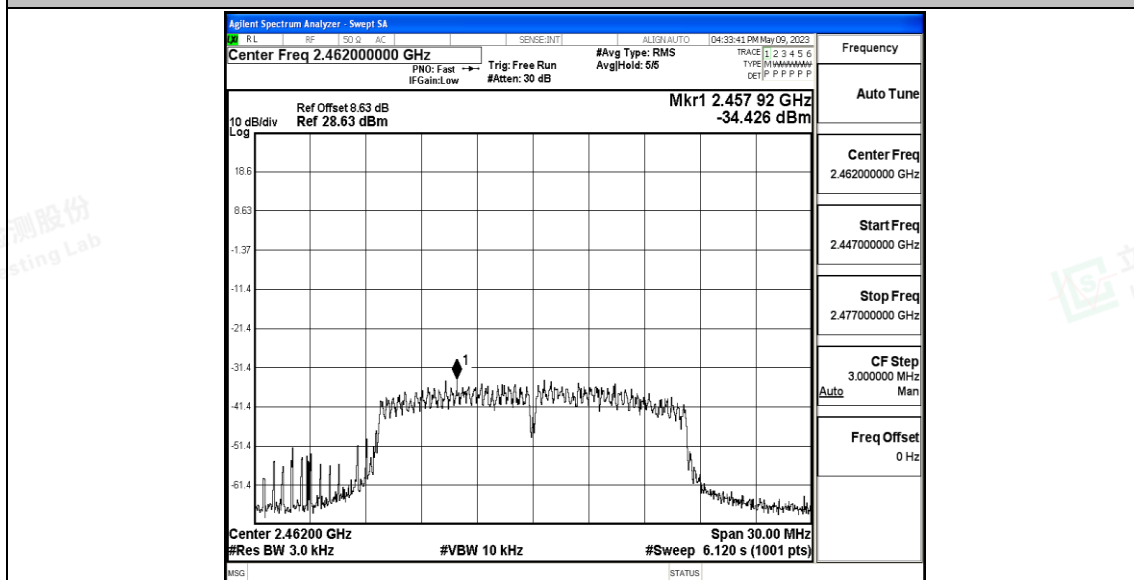
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11G_Ant_2462



11N20SISO_Ant_2412

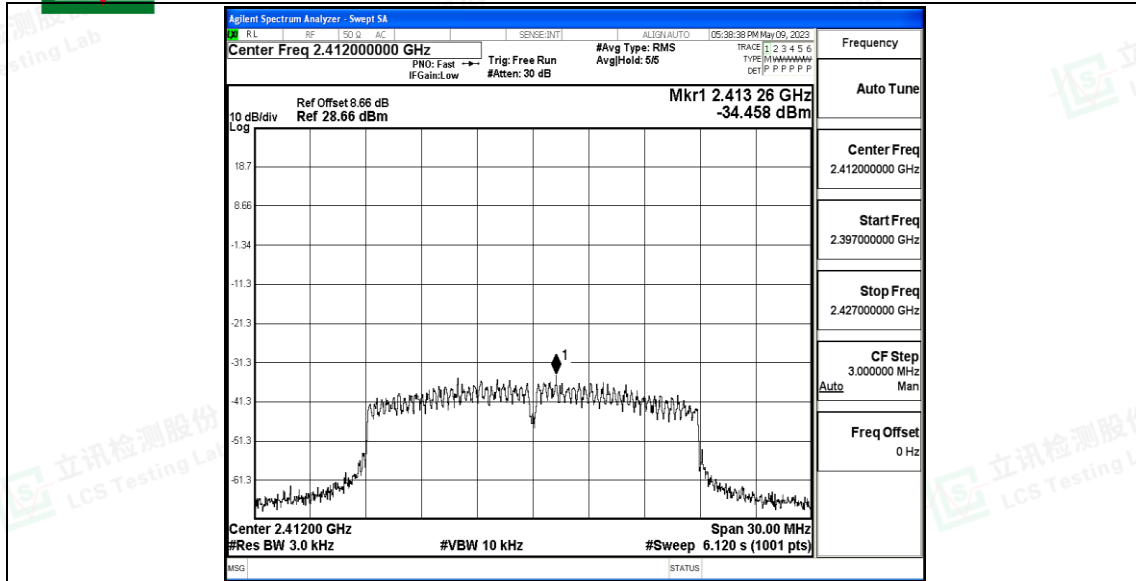


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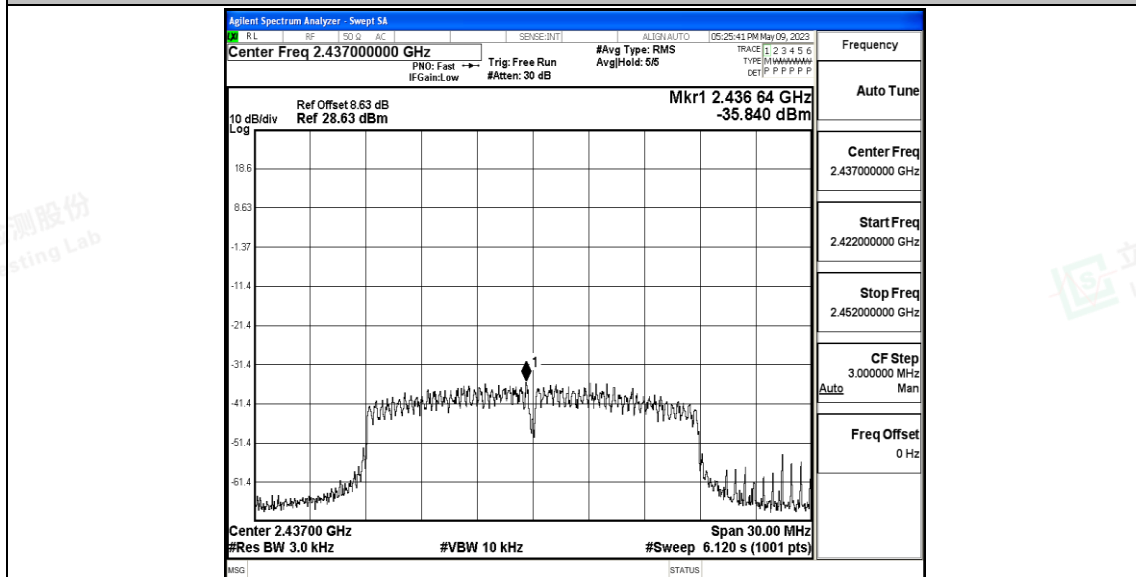
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

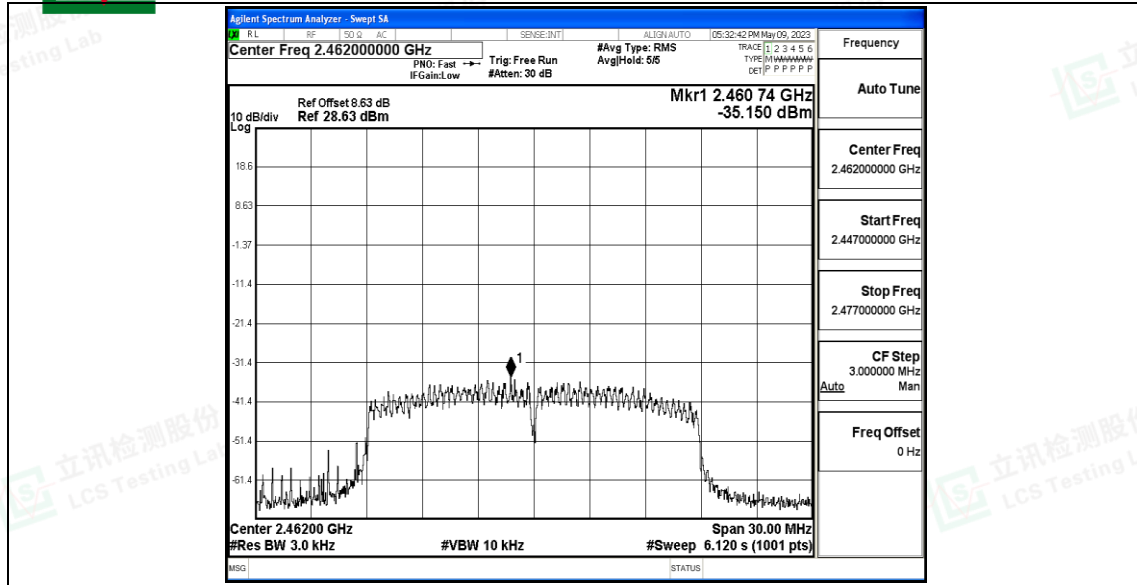


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C.4 Band edge measurements

Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	-13.88	-47.07	≤-33.88	PASS
		High	2462	-14.89	-48.78	≤-34.89	PASS
11G	Ant	Low	2412	-19.78	-49.07	≤-39.78	PASS
		High	2462	-19.94	-48.81	≤-39.94	PASS
11N20SISO	Ant	Low	2412	-21.17	-48.89	≤-41.17	PASS
		High	2462	-22.49	-48.59	≤-42.49	PASS



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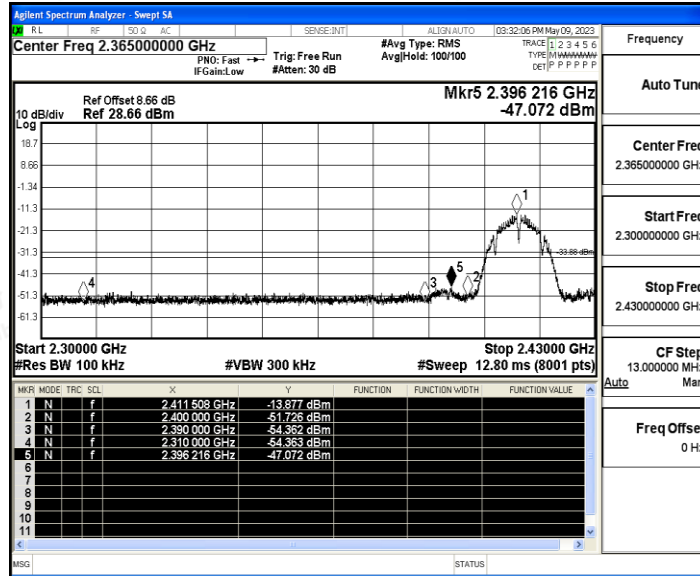
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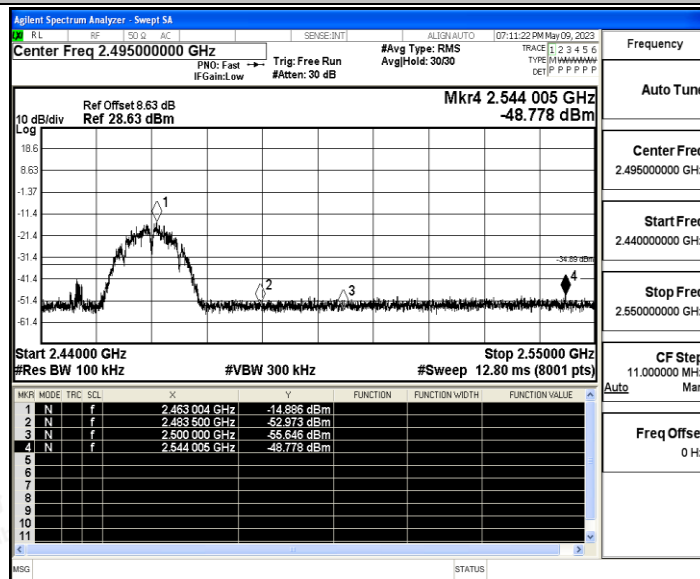


Test Graphs

11B_Ant_Low_2412



11B_Ant_High_2462



11G_Ant_Low_2412

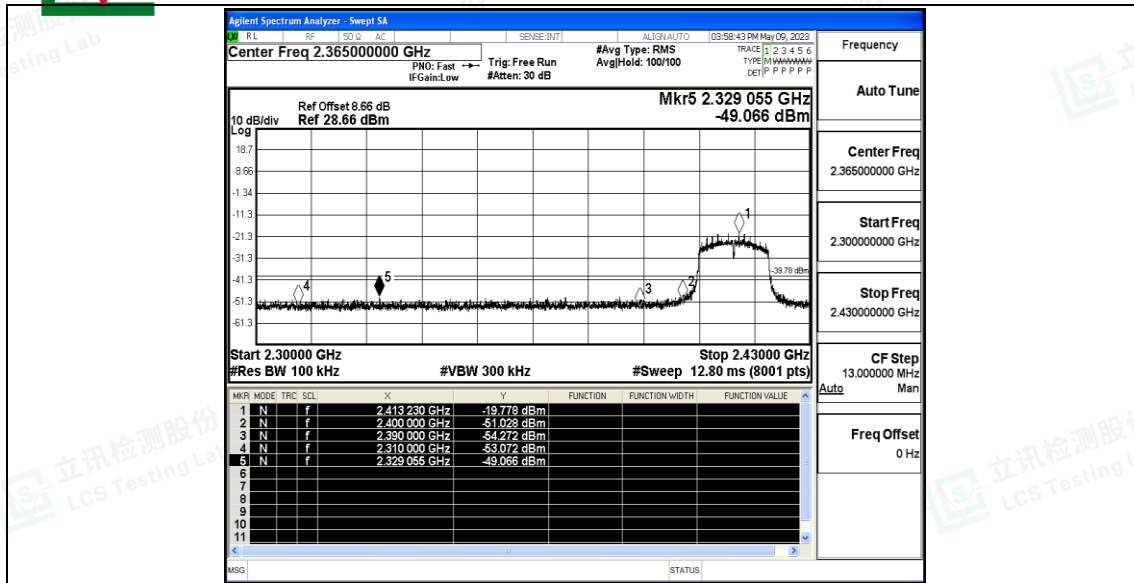


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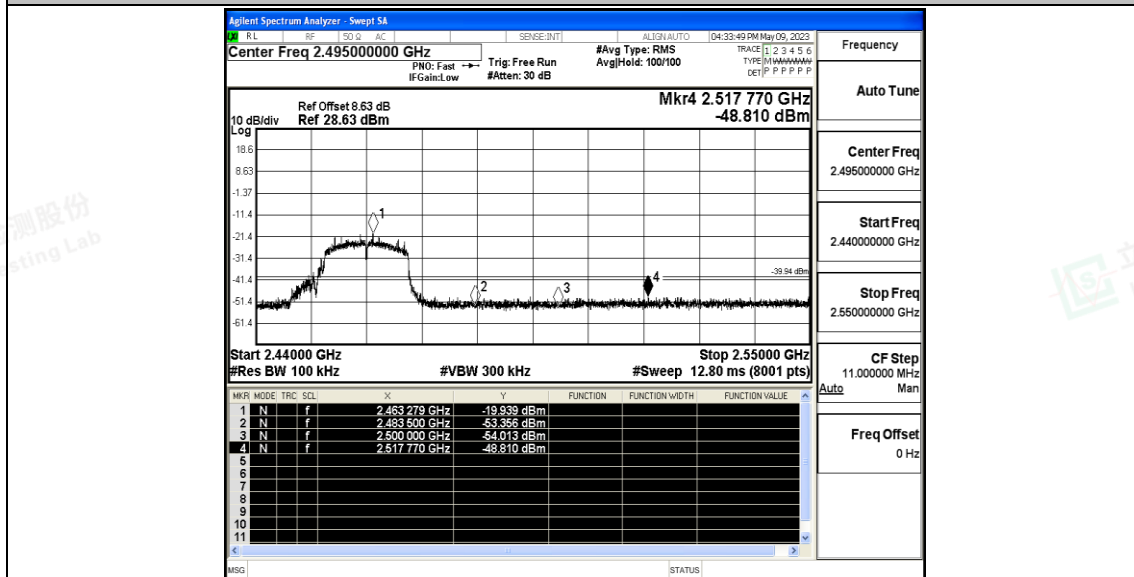
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11G_Ant_High_2462



11N20SISO_Ant_Low_2412

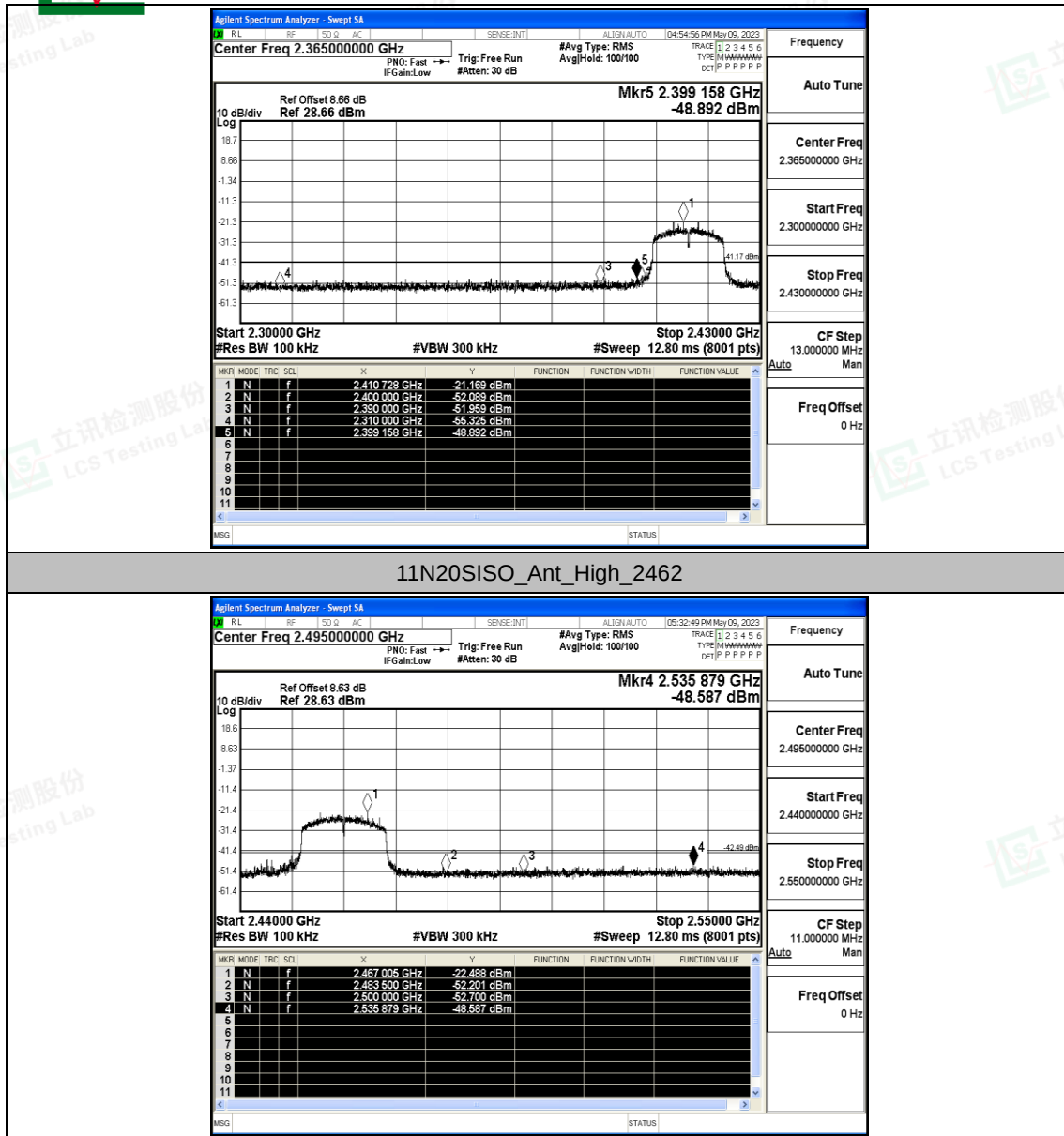


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C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	-15.00	-15.00	---	PASS
			30~1000	-15.00	-60.18	≤-35	PASS
			1000~26500	-15.00	-39.37	≤-35	PASS
		2437	Reference	-16.08	-16.08	---	PASS
			30~1000	-16.08	-60.72	≤-36.08	PASS
			1000~26500	-16.08	-45.81	≤-36.08	PASS
		2462	Reference	-15.58	-15.58	---	PASS
			30~1000	-15.58	-60.76	≤-35.58	PASS
			1000~26500	-15.58	-46.37	≤-35.58	PASS
11G	Ant	2412	Reference	-22.63	-22.63	---	PASS
			30~1000	-22.63	-60.32	≤-42.63	PASS
			1000~26500	-22.63	-46.56	≤-42.63	PASS
		2437	Reference	-23.11	-23.11	---	PASS
			30~1000	-23.11	-60.24	≤-43.11	PASS
			1000~26500	-23.11	-45.95	≤-43.11	PASS
		2462	Reference	-22.54	-22.54	---	PASS
			30~1000	-22.54	-59.51	≤-42.54	PASS
			1000~26500	-22.54	-45.35	≤-42.54	PASS
11N20SISO	Ant	2412	Reference	-22.22	-22.22	---	PASS
			30~1000	-22.22	-60.21	≤-42.22	PASS
			1000~26500	-22.22	-46.41	≤-42.22	PASS
		2437	Reference	-24.53	-24.53	---	PASS
			30~1000	-24.53	-60.01	≤-44.53	PASS
			1000~26500	-24.53	-46.28	≤-44.53	PASS
		2462	Reference	-22.45	-22.45	---	PASS
			30~1000	-22.45	-60.28	≤-42.45	PASS
			1000~26500	-22.45	-47.05	≤-42.45	PASS



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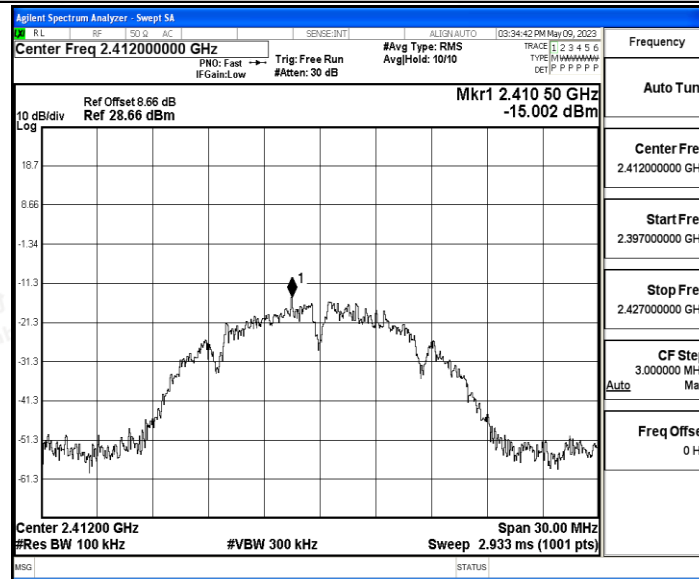
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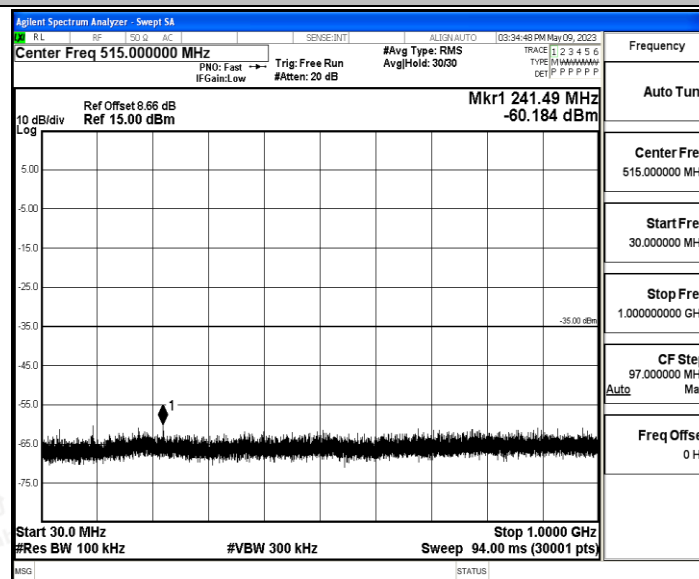


Test Graphs

11B_Ant_2412_0~Reference



11B_Ant_2412_30~1000



11B_Ant_2412_1000~26500

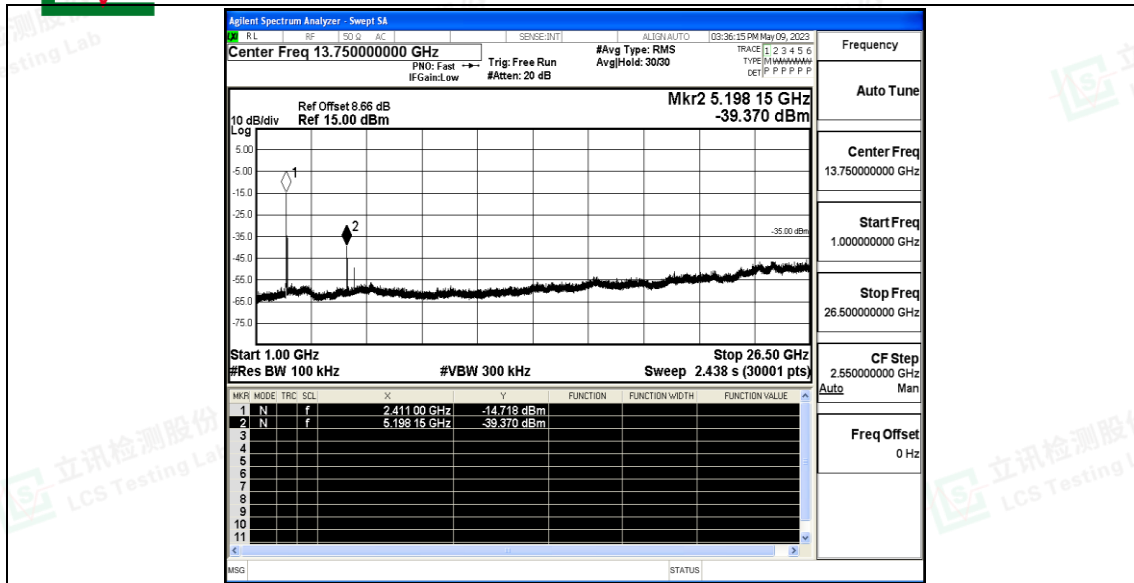


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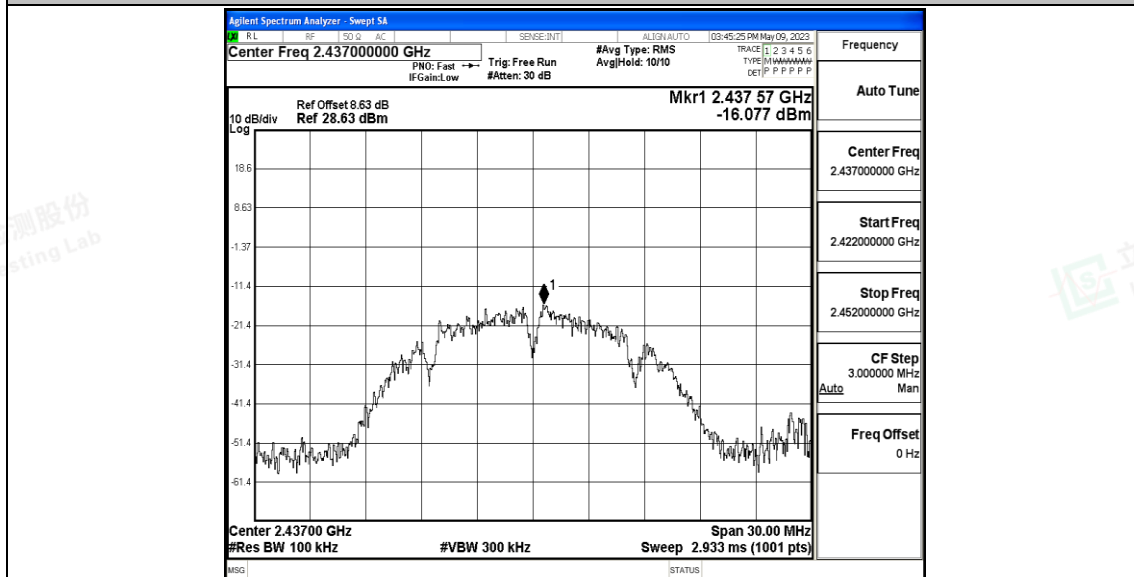
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11B_Ant_2437_0~Reference



11B_Ant_2437_30~1000

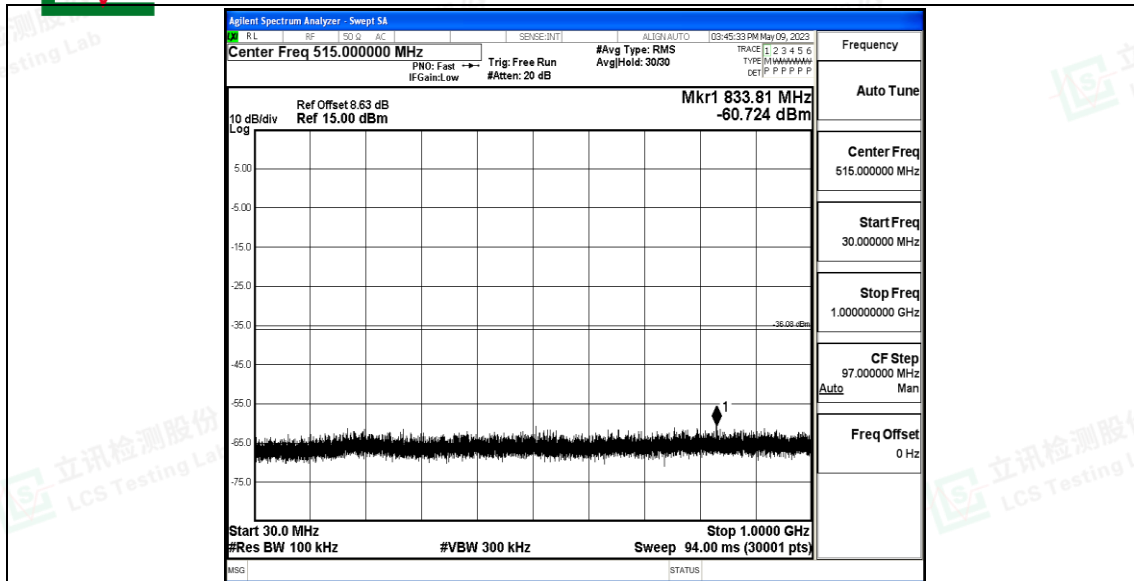


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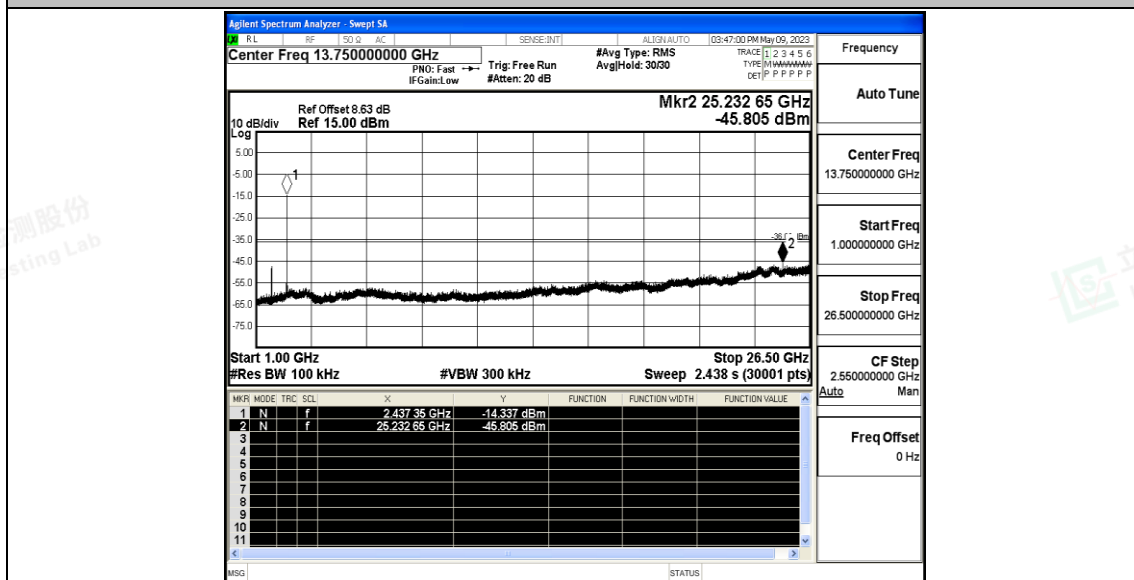
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11B_Ant_2437_1000~26500



11B_Ant_2462_0~Reference

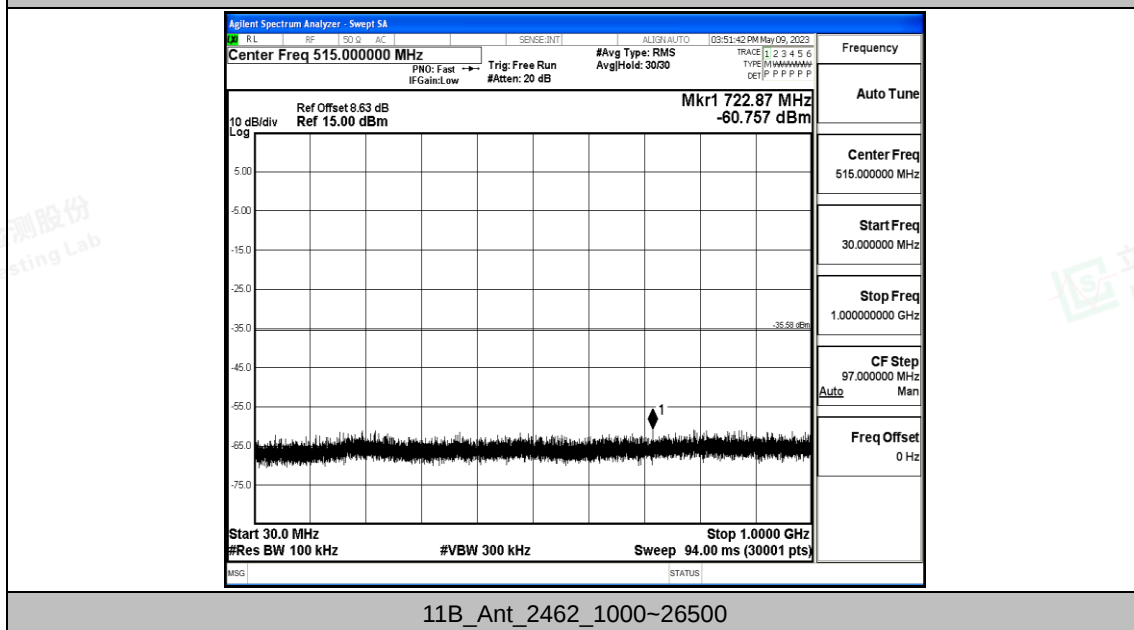
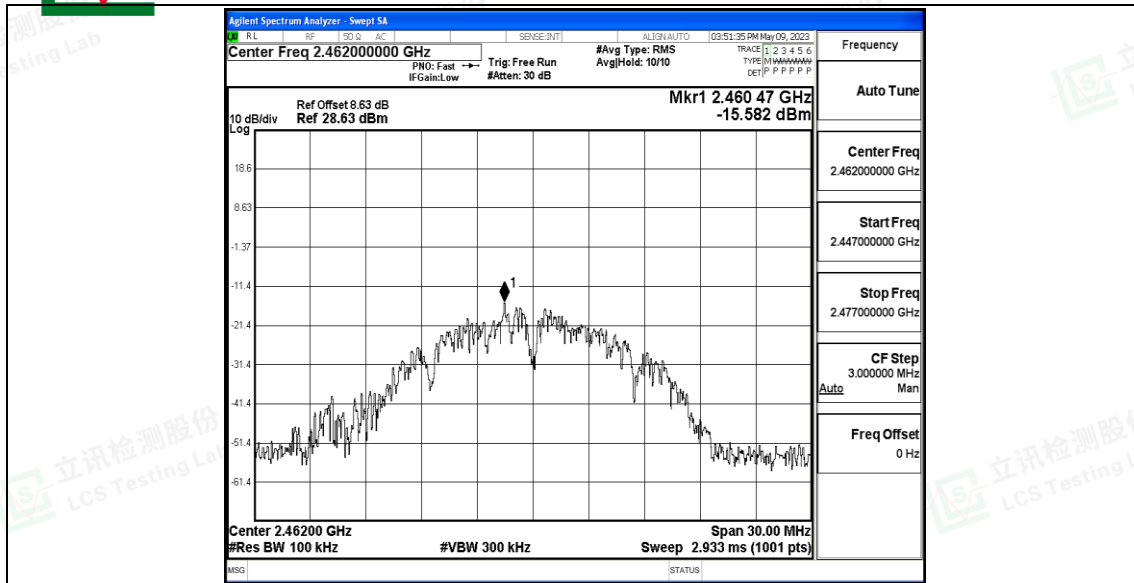


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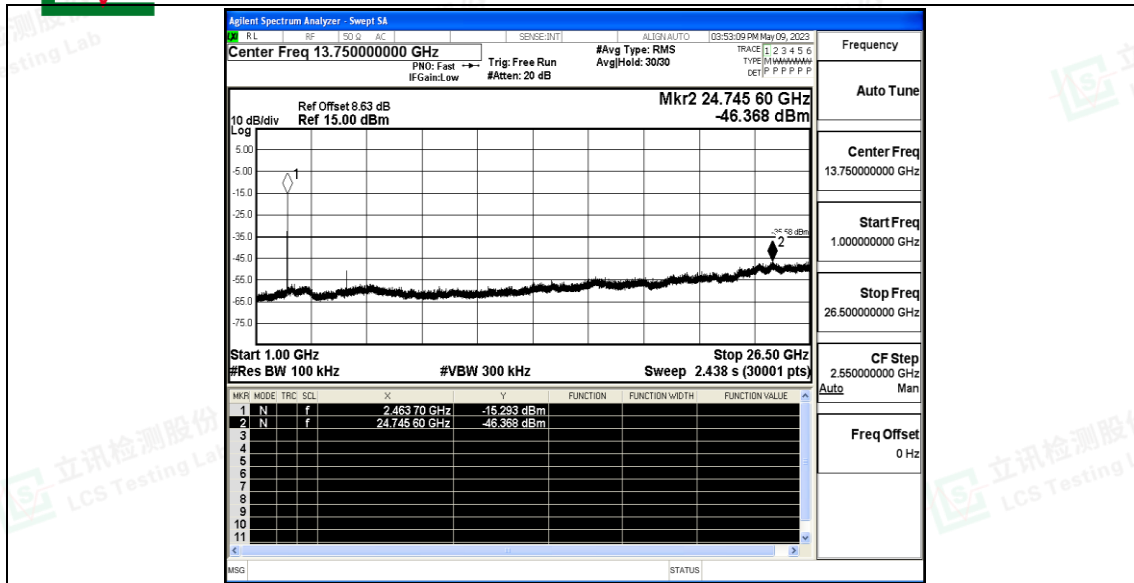


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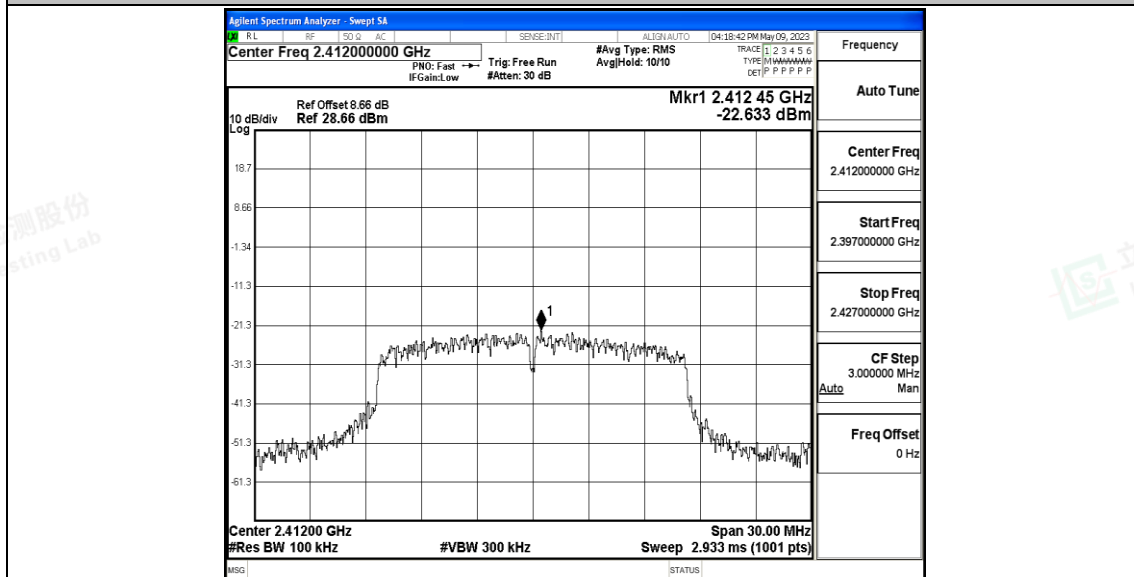
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11G_Ant_2412_0~Reference



11G_Ant_2412_30~1000

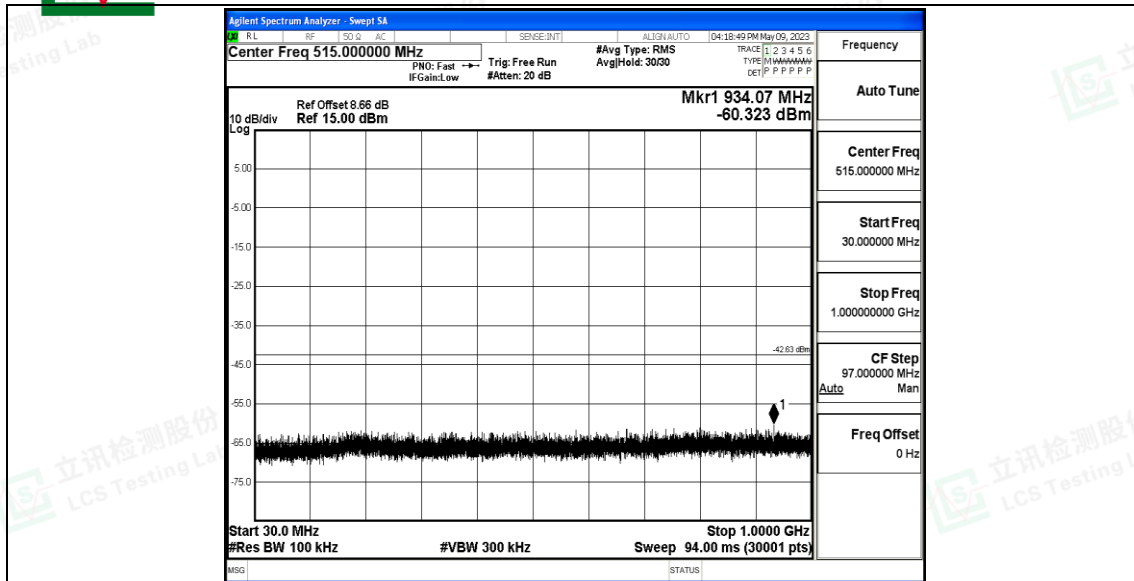


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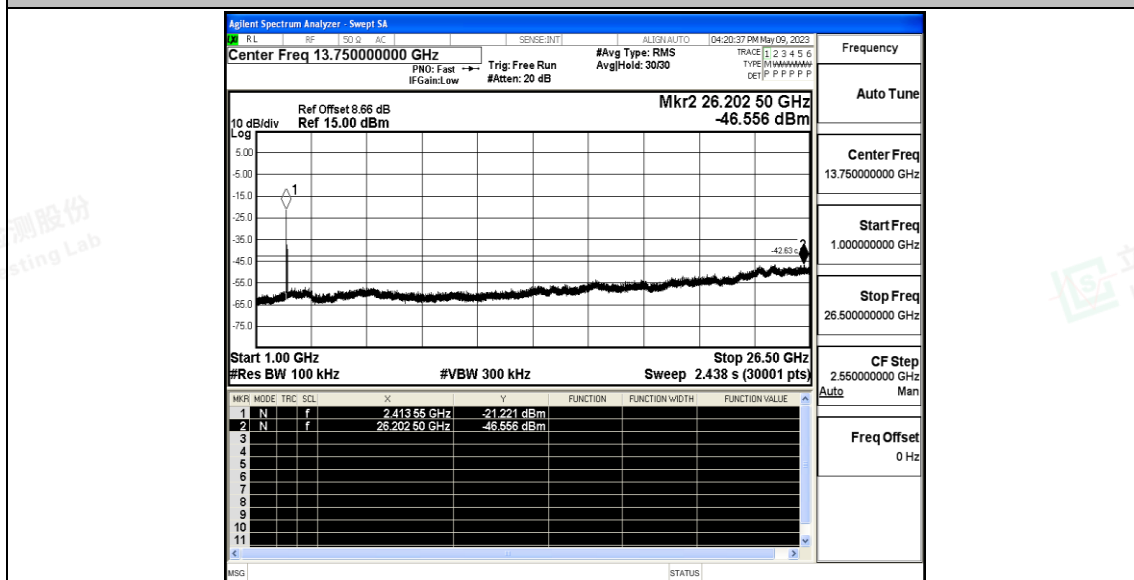
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11G_Ant_2412_1000~26500



11G_Ant_2437_0~Reference

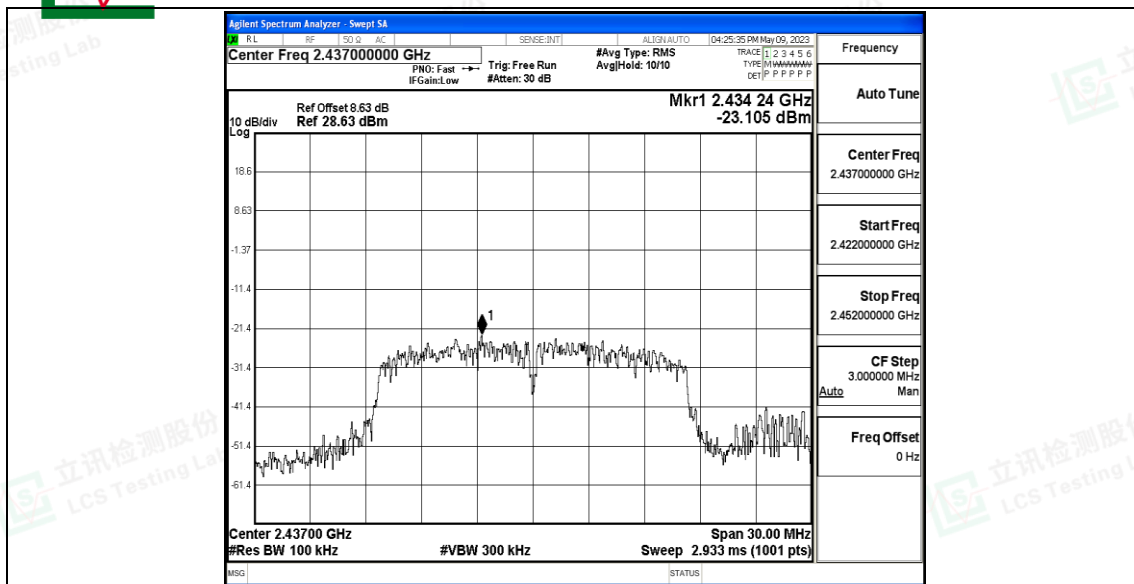


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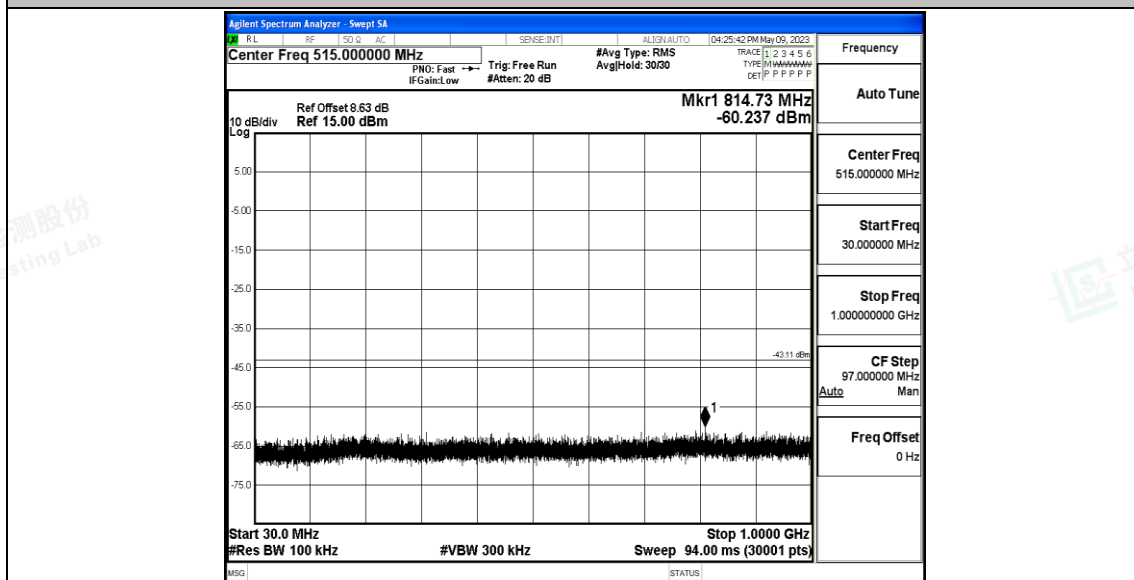
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11G_Ant_2437_30~1000



11G_Ant_2437_1000~26500

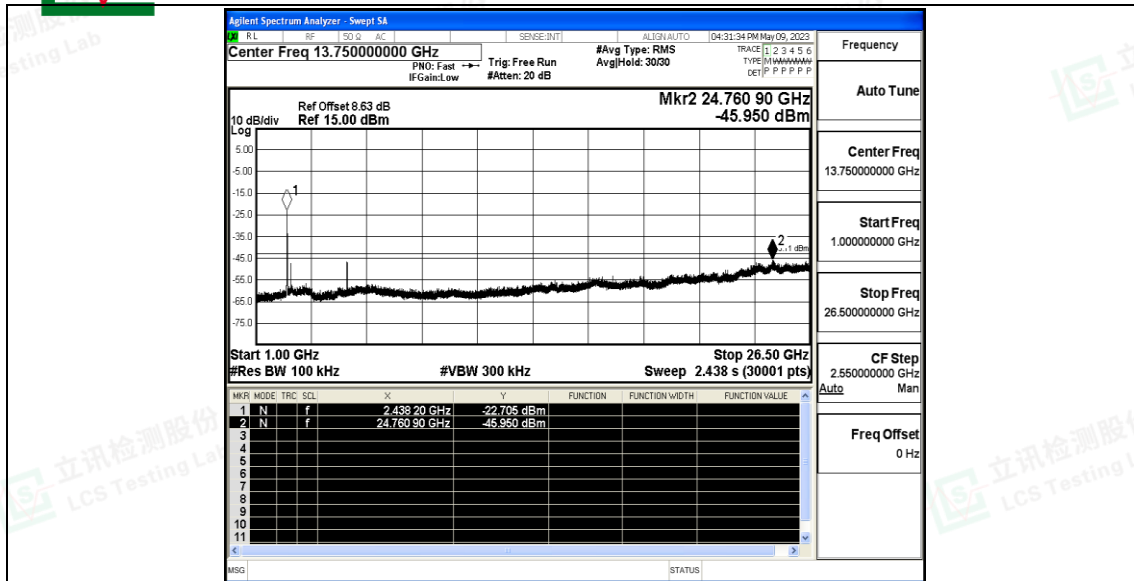


Shenzhen LCS Compliance Testing Laboratory Ltd.

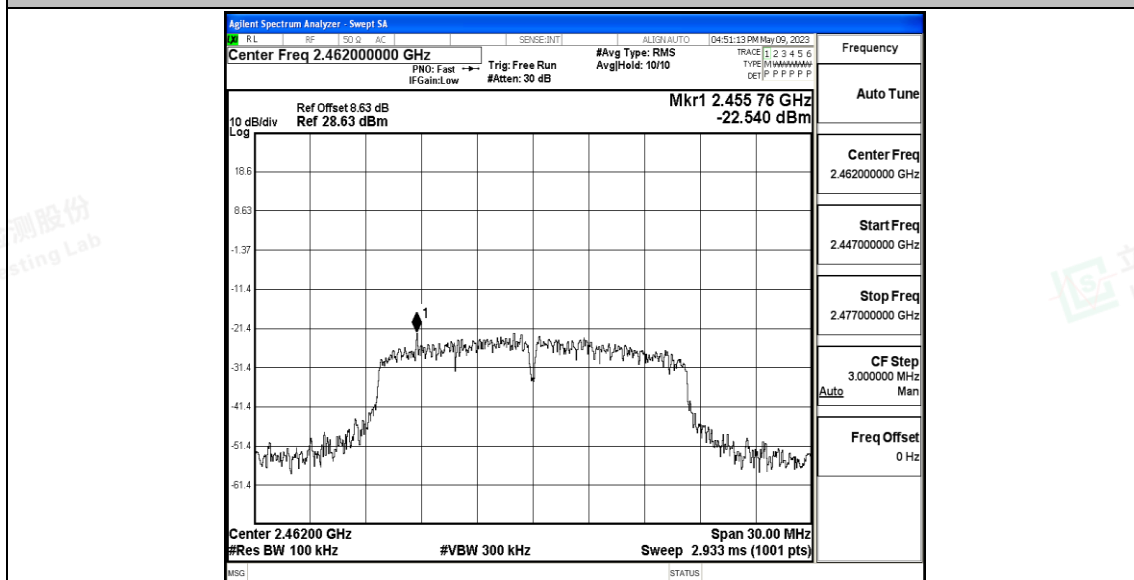
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11G_Ant_2462_0~Reference



11G_Ant_2462_30~1000

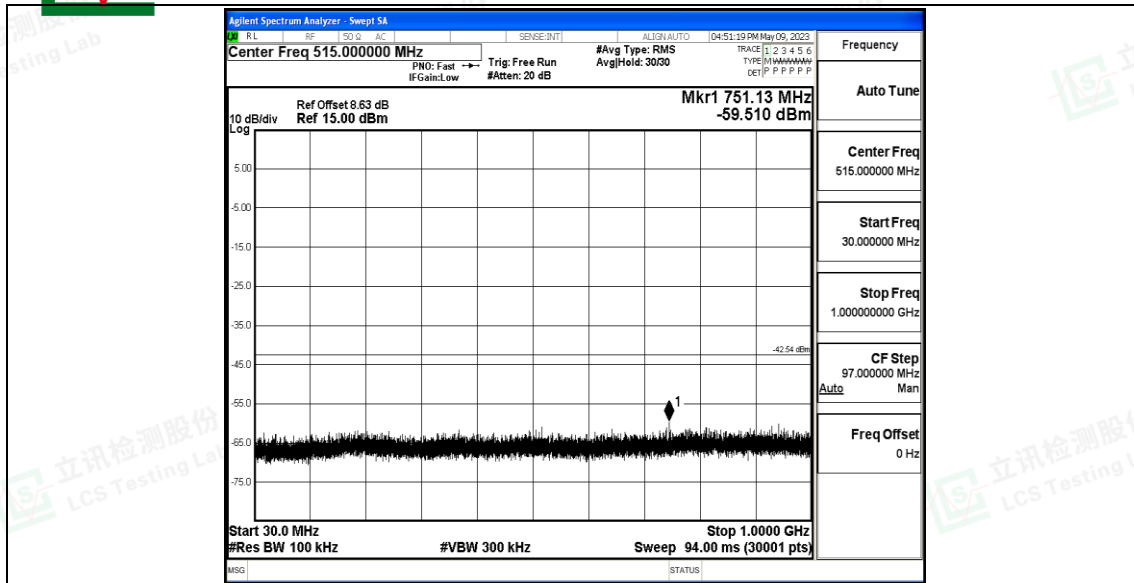


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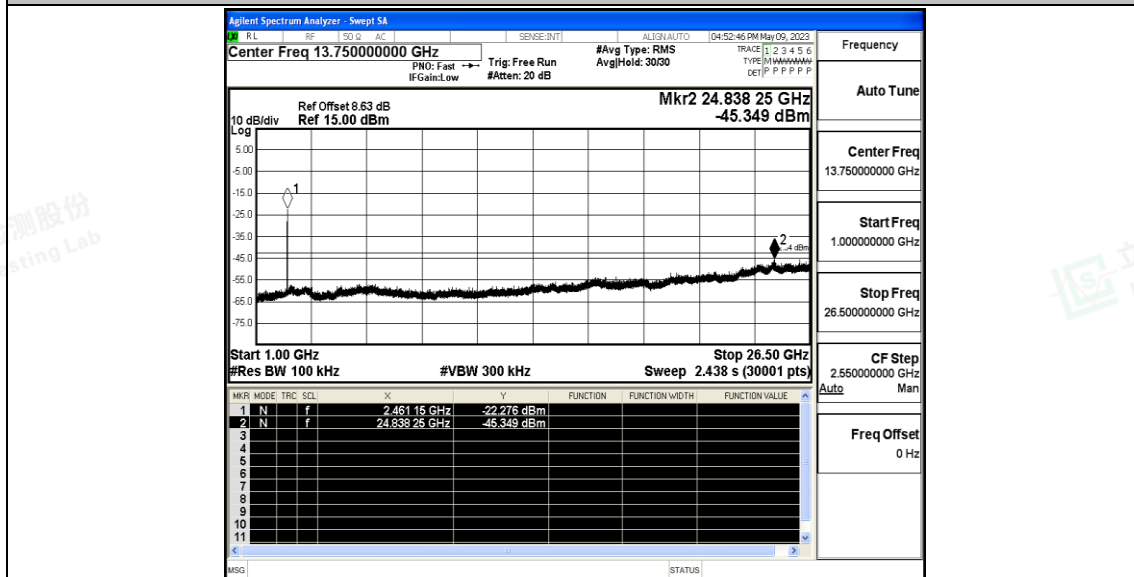
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11G_Ant_2462_1000~26500



11N20SISO_Ant_2412_0~Reference

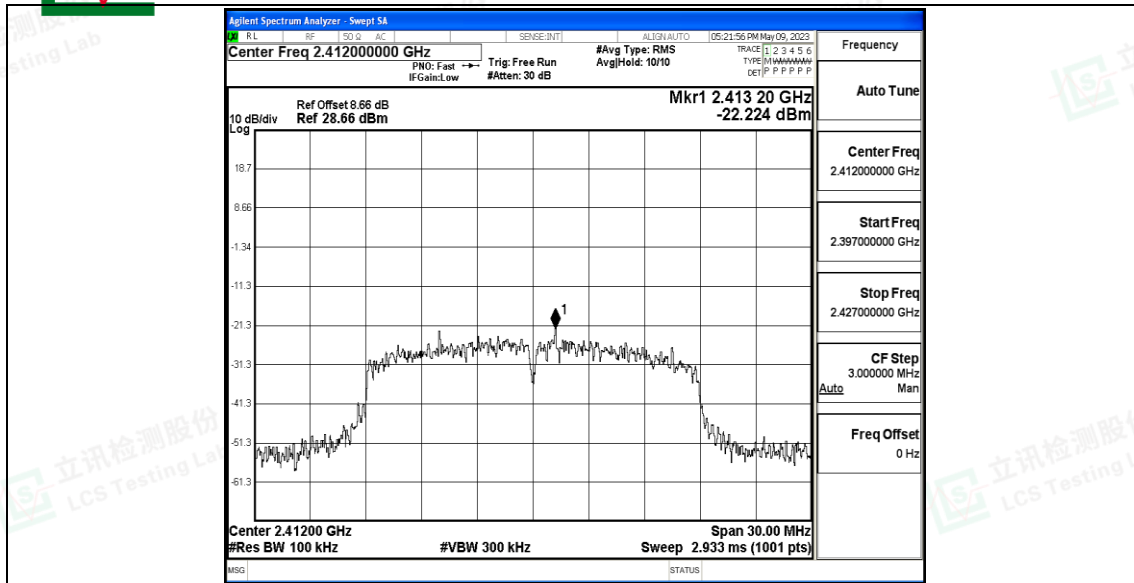


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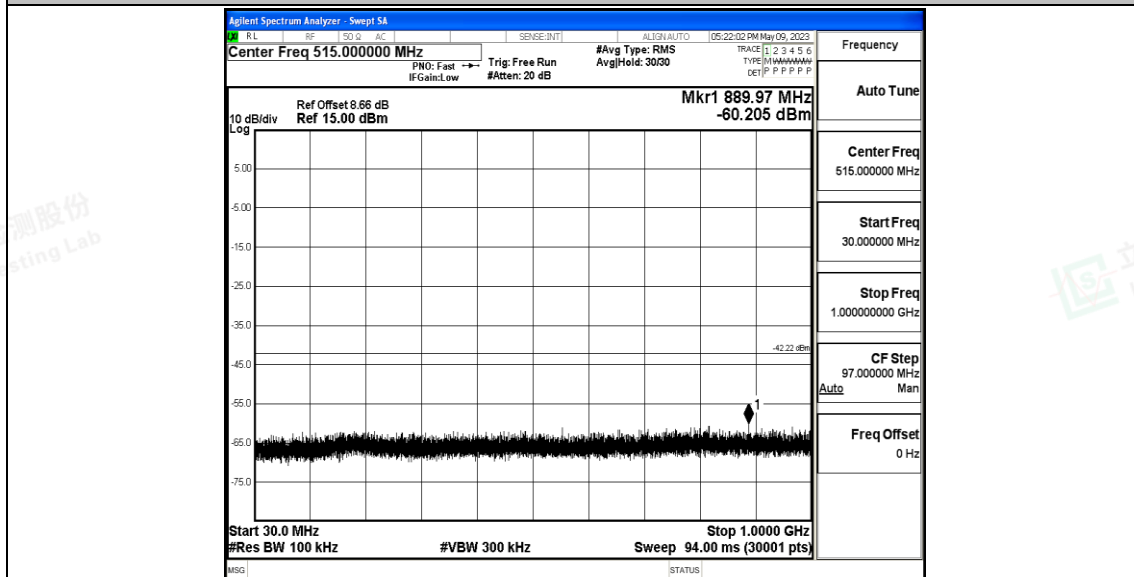
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_2412_30~1000



11N20SISO_Ant_2412_1000~26500

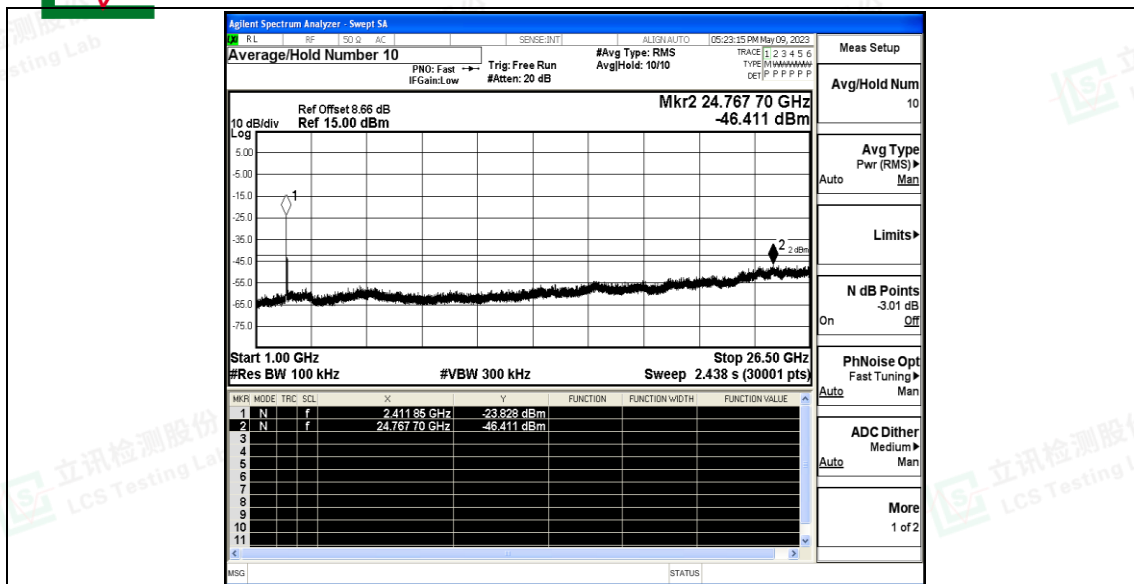


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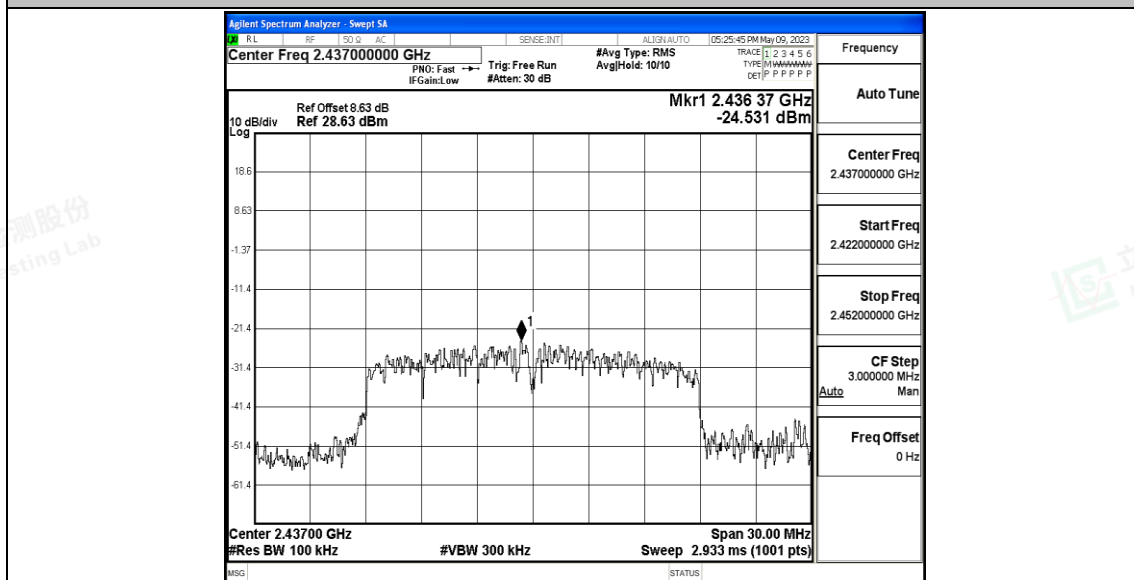
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11N20SISO_Ant_2437_0-Reference



11N20SISO_Ant_2437_30~1000

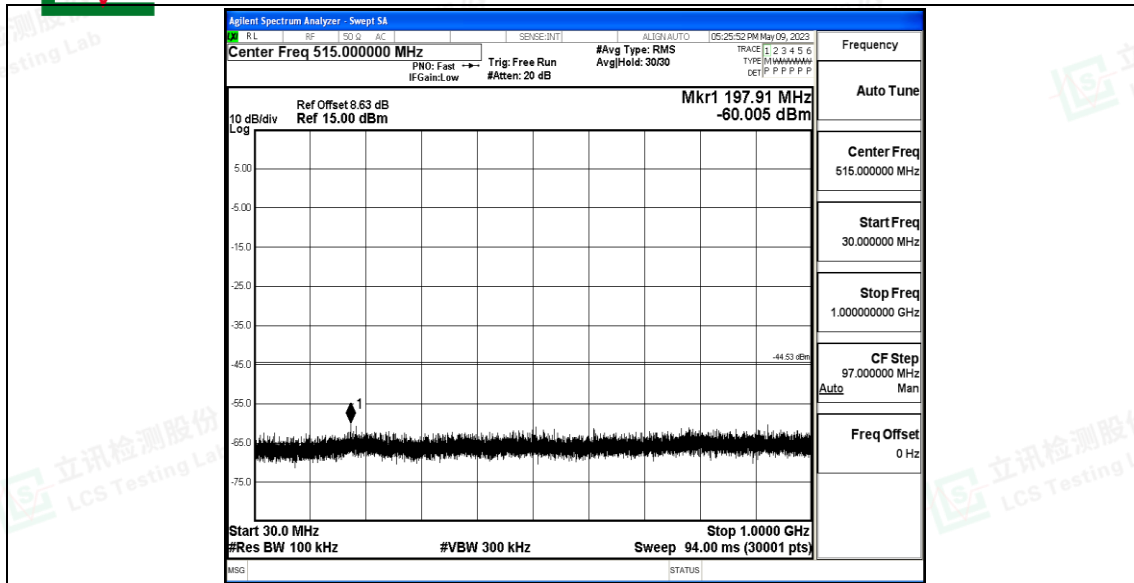


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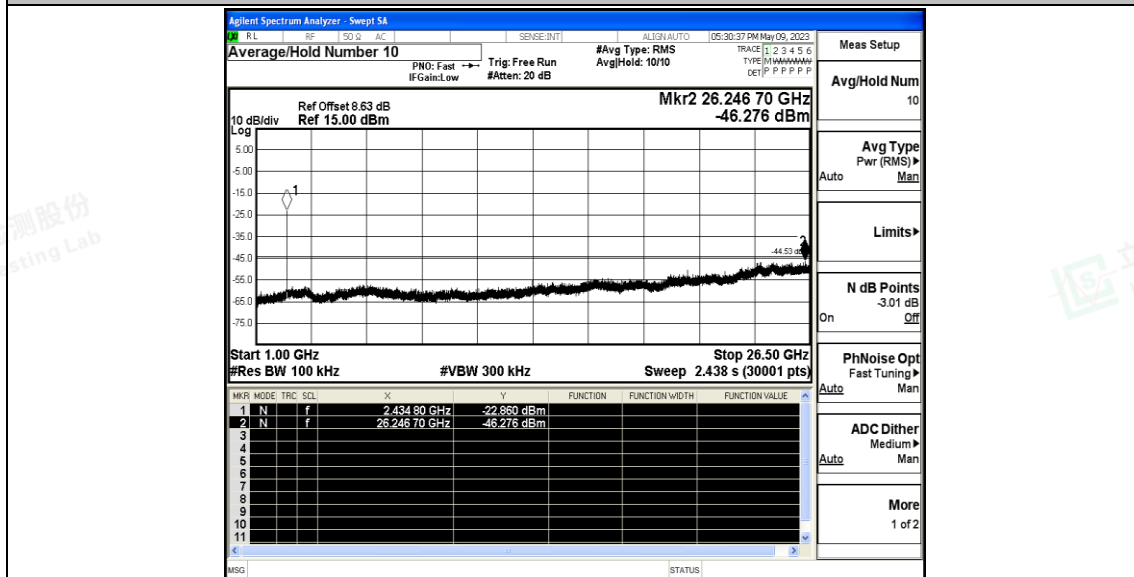
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11N20SISO_Ant_2437_1000~26500



11N20SISO_Ant_2462_0-Reference

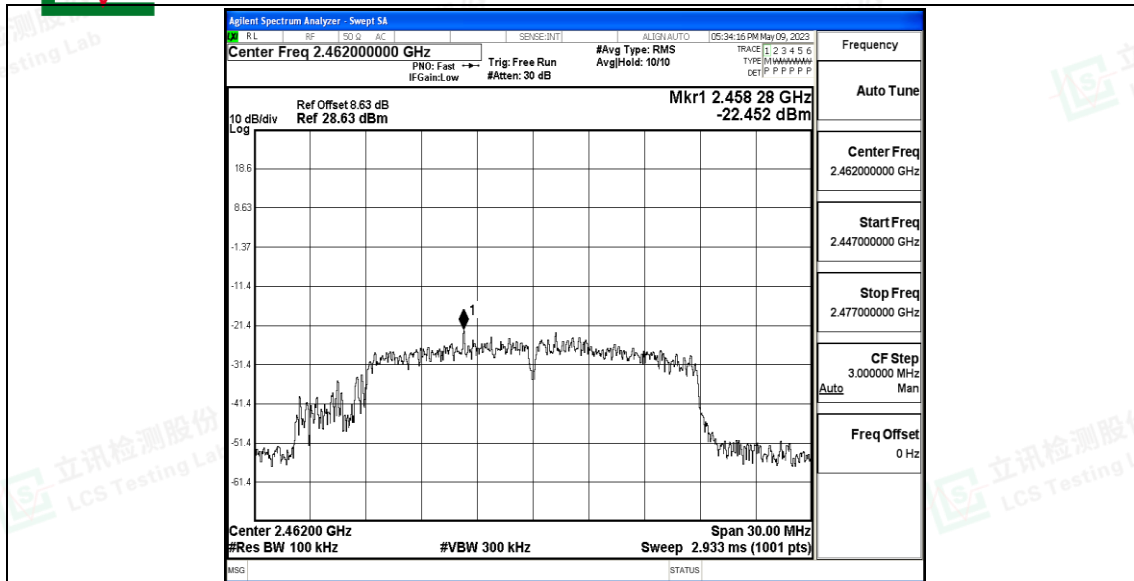


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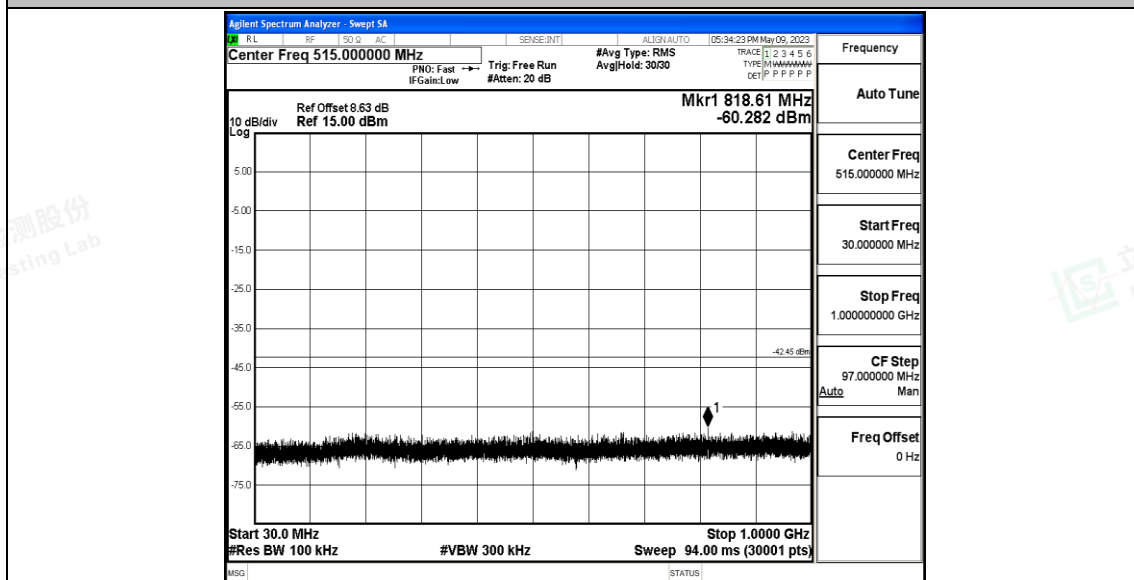
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11N20SISO_Ant_2462_30~1000



11N20SISO_Ant_2462_1000~26500

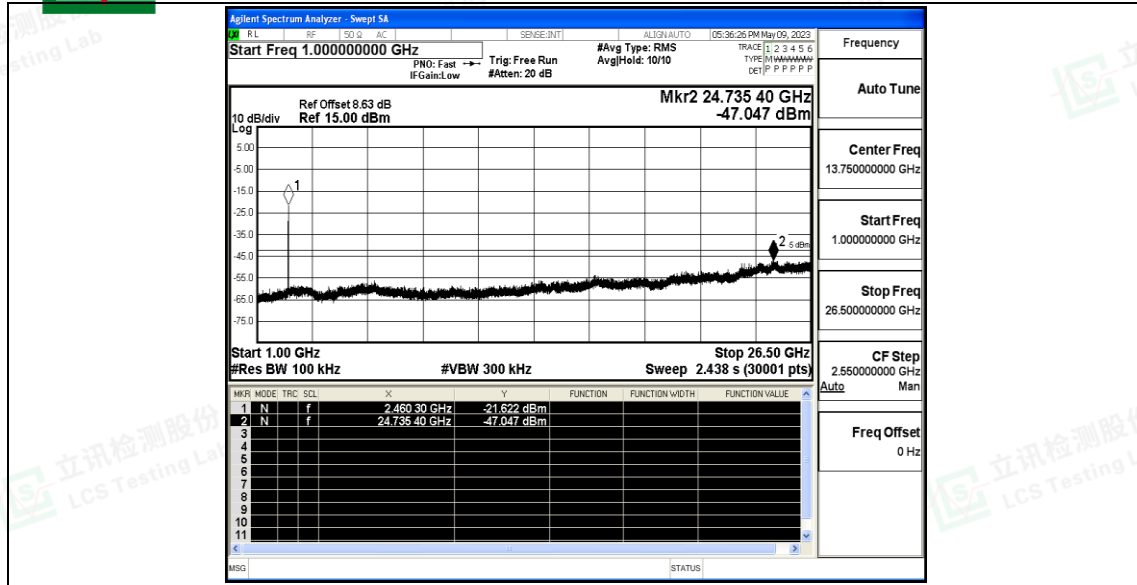


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C.6 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant	2412	8.61	8.64	99.65
		2437	8.61	8.64	99.65
		2462	8.61	8.63	99.77
11G	Ant	2412	1.43	1.46	97.95
		2437	1.43	1.46	97.95
		2462	1.43	1.46	97.95
11N20SISO	Ant	2412	1.34	1.37	97.81
		2437	1.34	1.37	97.81
		2462	1.33	1.36	97.79



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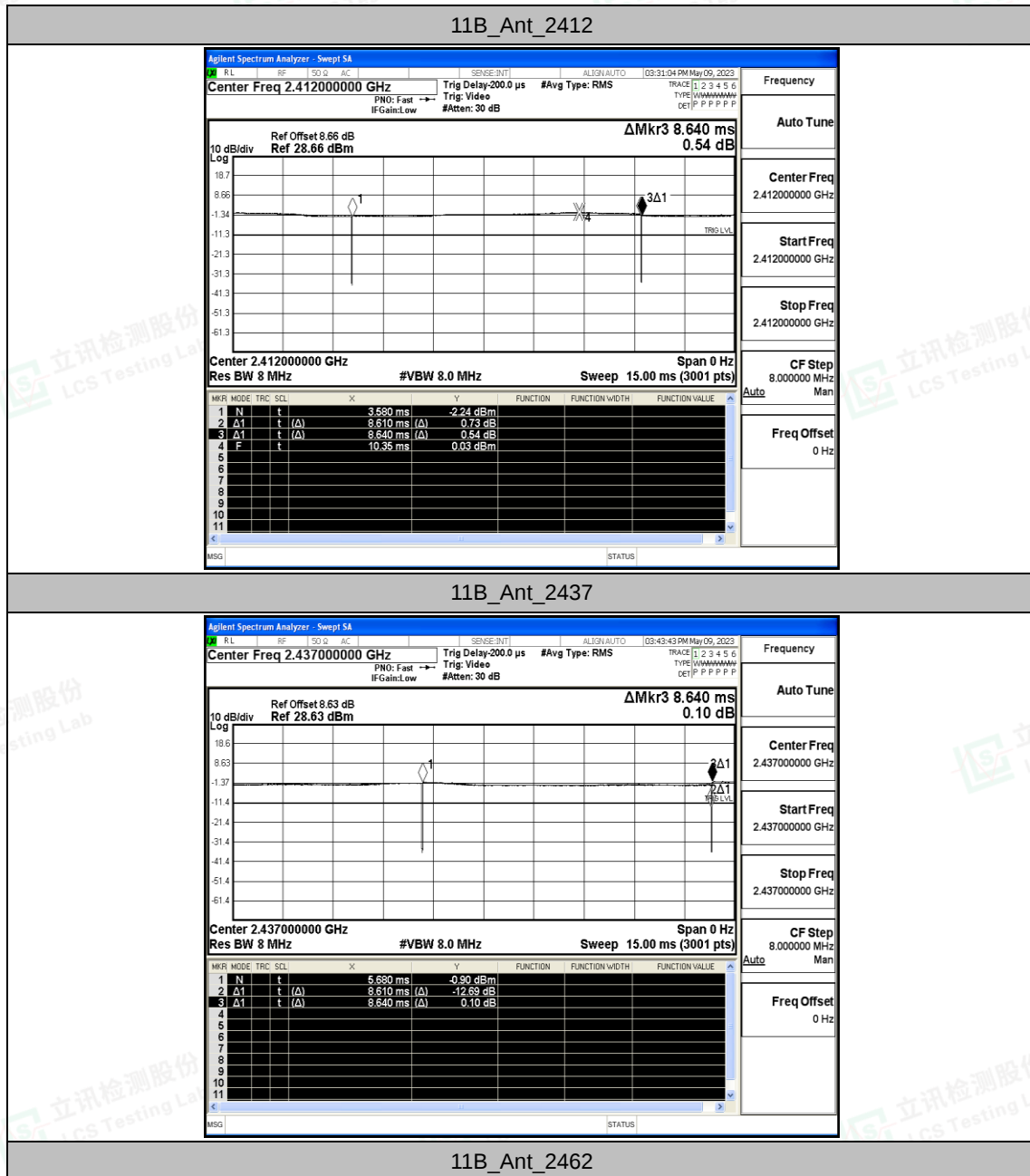
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Test Graphs

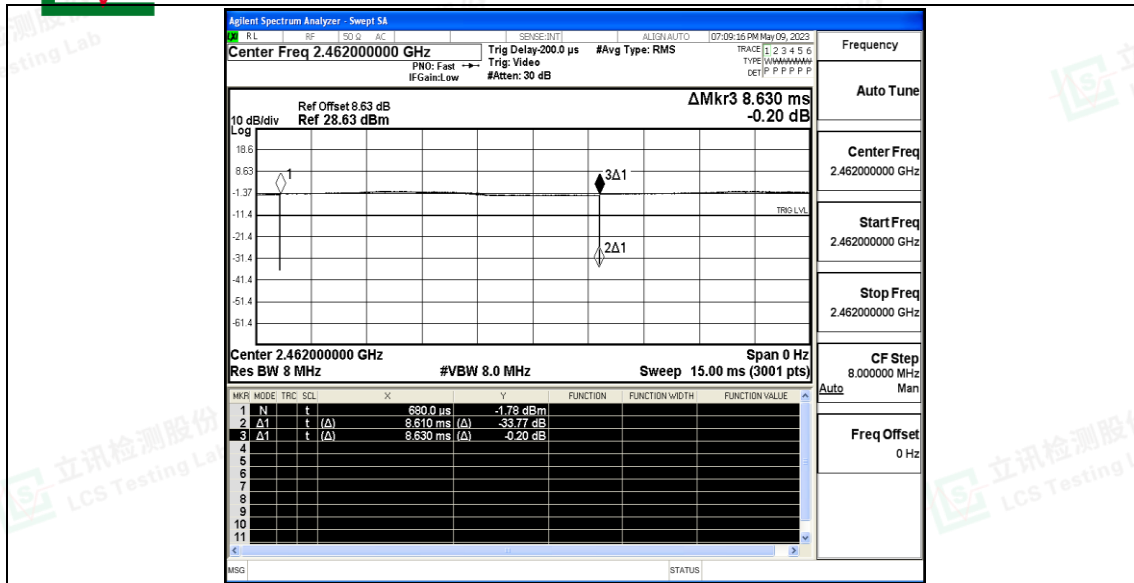


Shenzhen LCS Compliance Testing Laboratory Ltd.

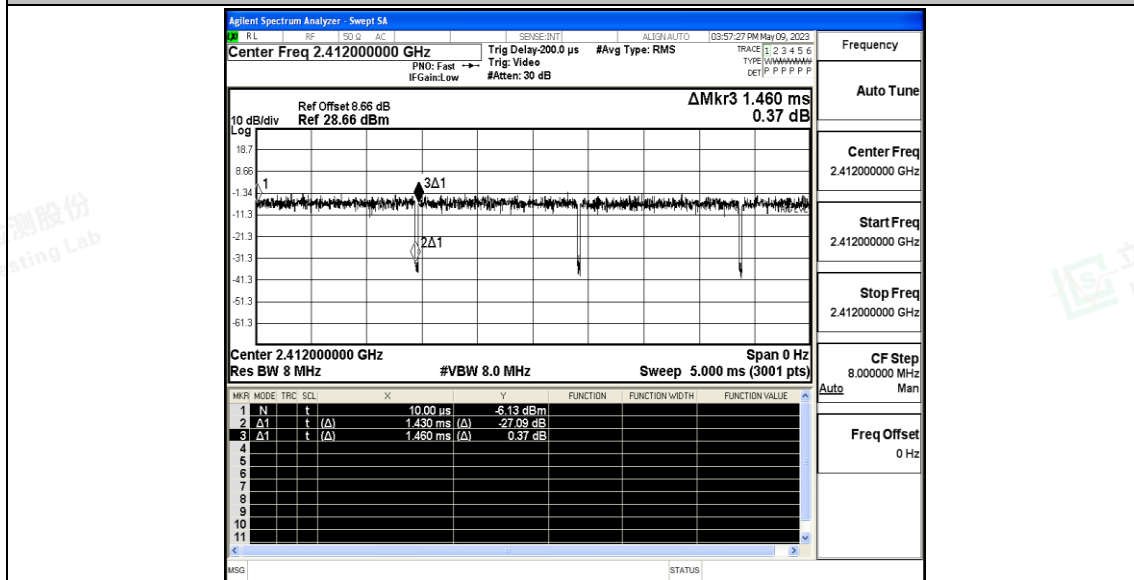
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11G_Ant_2412



11G_Ant_2437

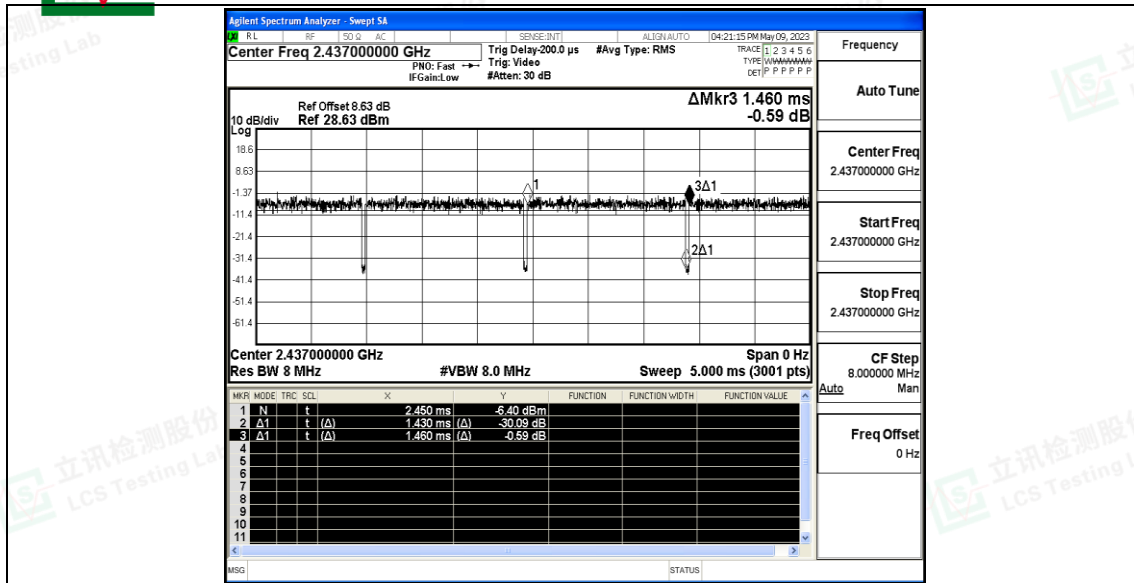


Shenzhen LCS Compliance Testing Laboratory Ltd.

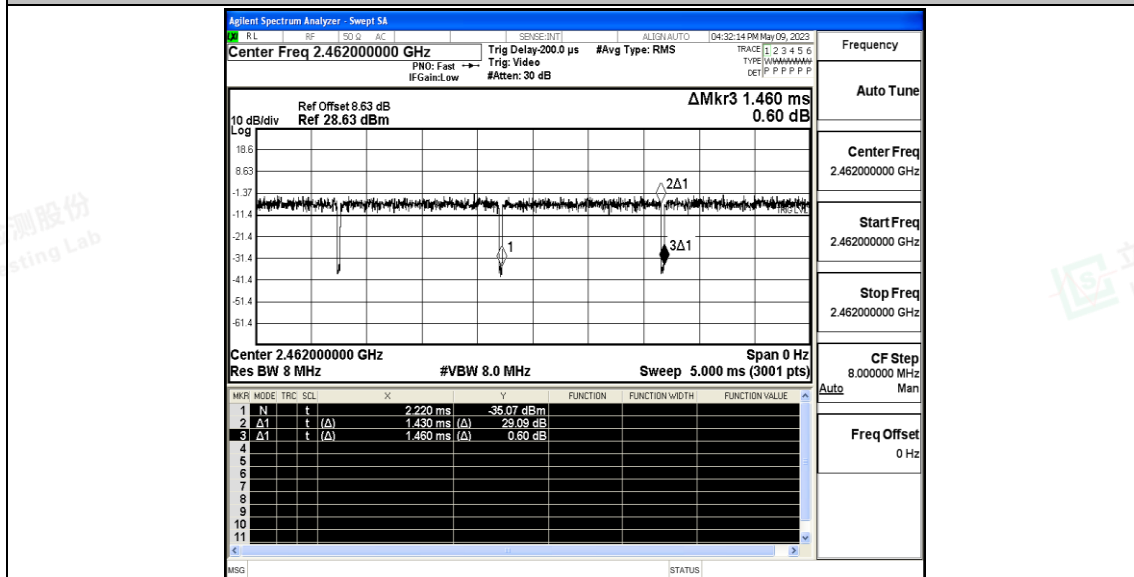
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant_2462



11N20SISO_Ant_2412



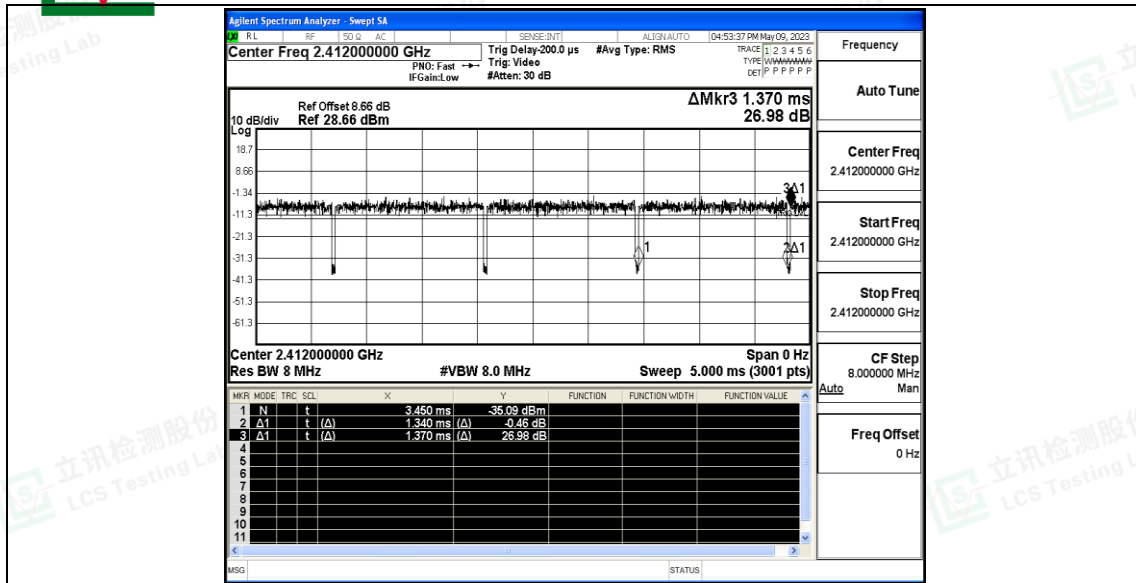
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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

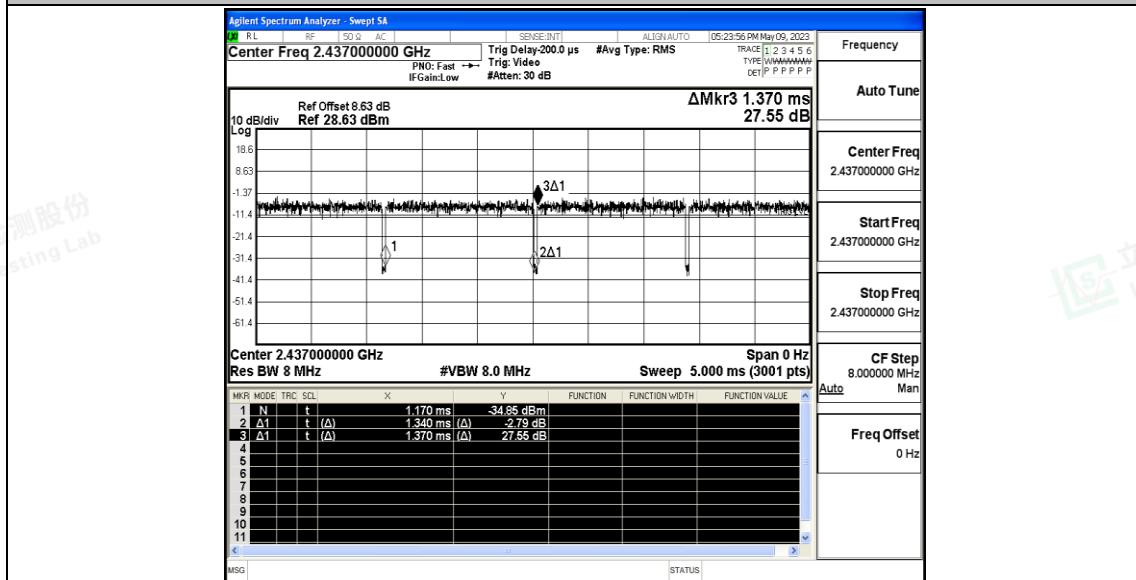
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

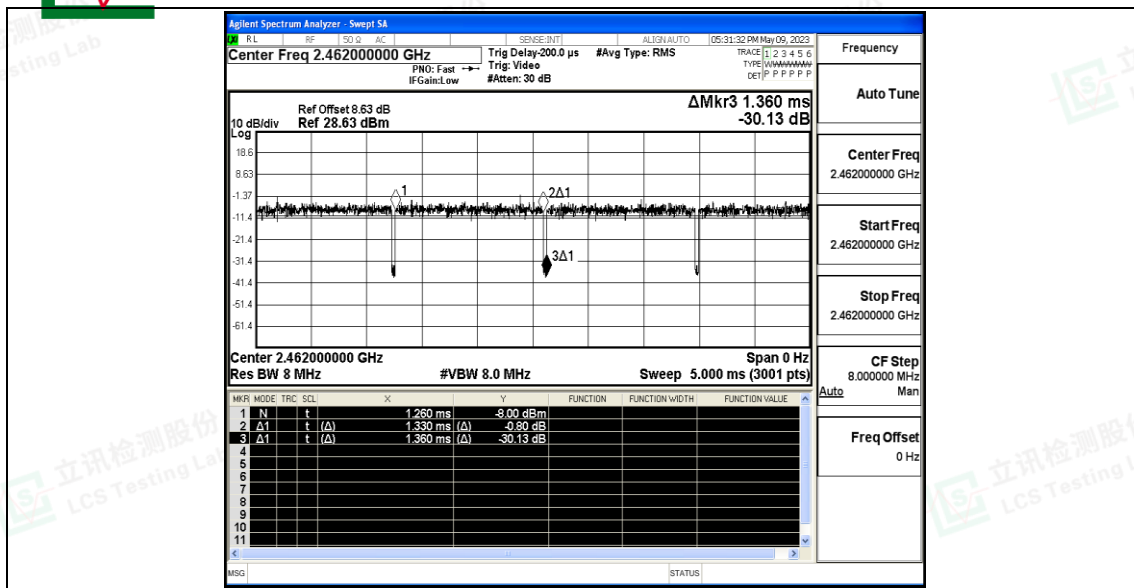


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C.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant	Low	2412	AV	2310.000	-58.36	≤-41.20	36.84	≤54	PASS
				AV	2388.660	-55.19	≤-41.20	40.01	≤54	PASS
				AV	2390.000	-56.78	≤-41.20	38.42	≤54	PASS
				Peak	2310.000	-48.48	≤-21.20	46.72	≤74	PASS
				Peak	2386.190	-44.7	≤-21.20	50.50	≤74	PASS
				Peak	2390.000	-47.19	≤-21.20	48.01	≤74	PASS
		High	2462	AV	2483.500	-57.46	≤-41.20	37.74	≤54	PASS
				AV	2484.660	-56.83	≤-41.20	38.37	≤54	PASS
				AV	2500.000	-57.4	≤-41.20	37.80	≤54	PASS
				Peak	2483.500	-47.23	≤-21.20	47.97	≤74	PASS
				Peak	2486.310	-45.93	≤-21.20	49.27	≤74	PASS
				Peak	2500.000	-47.47	≤-21.20	47.73	≤74	PASS
11G	Ant	Low	2412	AV	2310.000	-58.14	≤-41.20	37.06	≤54	PASS
				AV	2389.960	-55.72	≤-41.20	39.48	≤54	PASS
				AV	2390.000	-55.72	≤-41.20	39.48	≤54	PASS
				Peak	2310.000	-48.25	≤-21.20	46.95	≤74	PASS
				Peak	2388.270	-44.12	≤-21.20	51.08	≤74	PASS
				Peak	2390.000	-44.66	≤-21.20	50.54	≤74	PASS
		High	2462	AV	2483.500	-57.16	≤-41.20	38.04	≤54	PASS
				AV	2484.000	-57.11	≤-41.20	38.09	≤54	PASS
				AV	2500.000	-57.26	≤-41.20	37.94	≤54	PASS
				Peak	2483.500	-46.7	≤-21.20	48.50	≤74	PASS
				Peak	2485.870	-45.6	≤-21.20	49.60	≤74	PASS
				Peak	2500.000	-46.75	≤-21.20	48.45	≤74	PASS
11N20SIS O	Ant	Low	2412	AV	2310.000	-58.16	≤-41.20	37.04	≤54	PASS
				AV	2389.570	-55.74	≤-41.20	39.46	≤54	PASS
				AV	2390.000	-55.92	≤-41.20	39.28	≤54	PASS
				Peak	2310.000	-48.68	≤-21.20	46.52	≤74	PASS
				Peak	2388.790	-44.61	≤-21.20	50.59	≤74	PASS
				Peak	2390.000	-45.33	≤-21.20	49.87	≤74	PASS
		High	2462	AV	2483.500	-57.37	≤-41.20	37.83	≤54	PASS
				AV	2496.320	-57.1	≤-41.20	38.10	≤54	PASS
				AV	2500.000	-57.27	≤-41.20	37.93	≤54	PASS
				Peak	2483.500	-46.73	≤-21.20	48.47	≤74	PASS
				Peak	2485.760	-45.12	≤-21.20	50.08	≤74	PASS
				Peak	2485.760	-45.12	≤-21.20	50.08	≤74	PASS



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				Peak	2500.000	-47.65	≤-21.20	47.55	≤74	PASS
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Note:

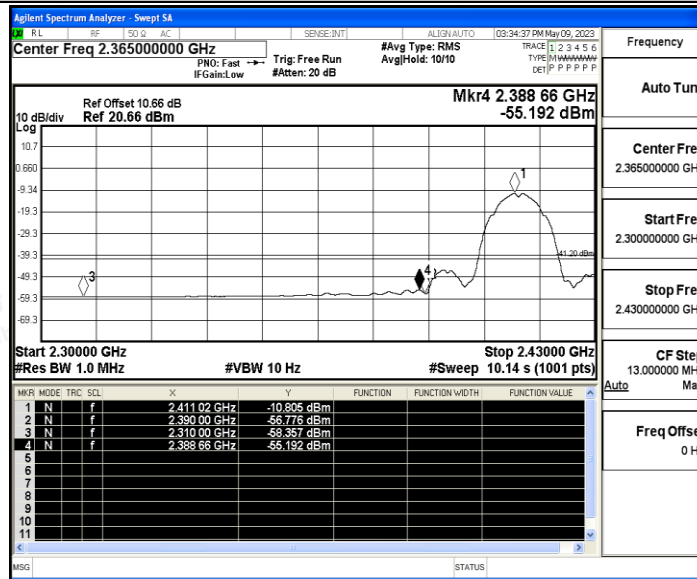
- 1. The Antenna Gain is compensated in the graph.
- 2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



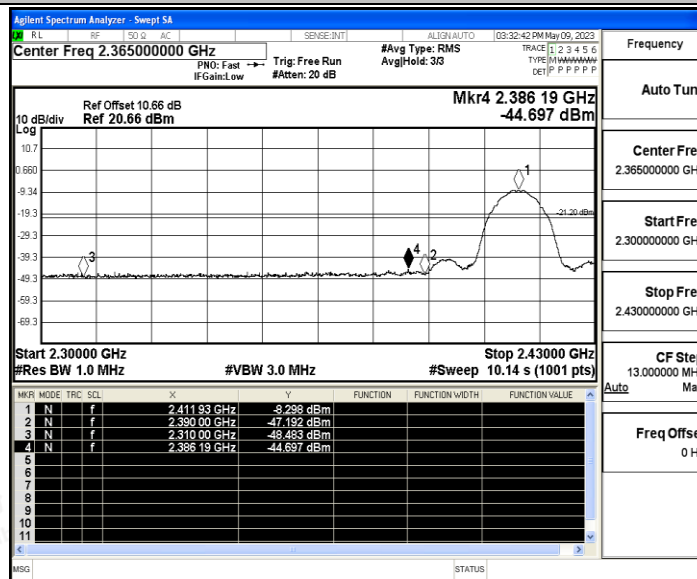


Test Graphs

11B_Ant_Low_2412_AV



11B_Ant_Low_2412_Peak



11B_Ant_High_2462_AV

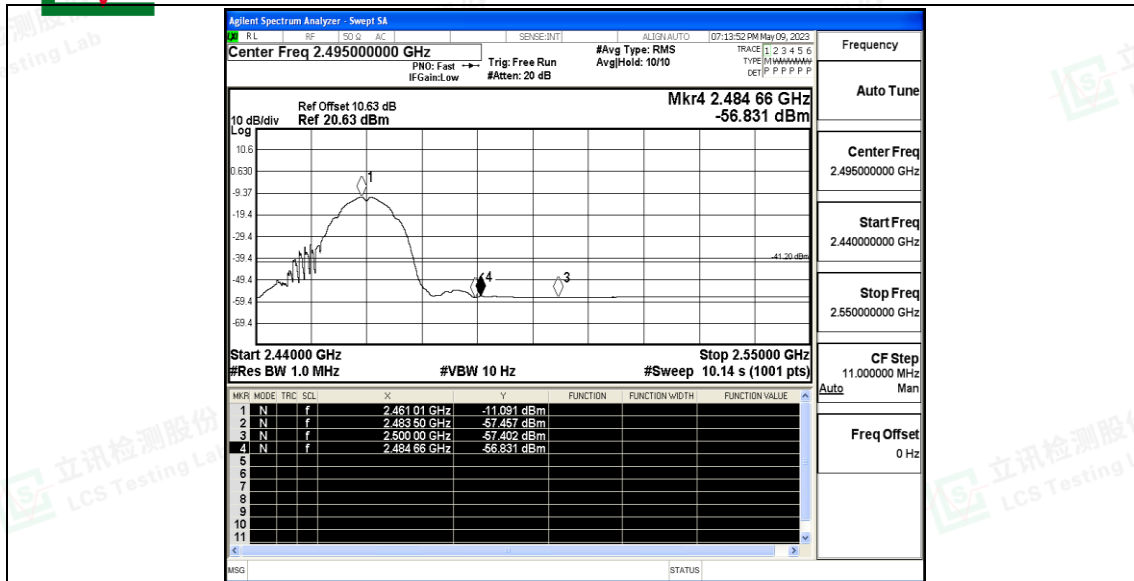


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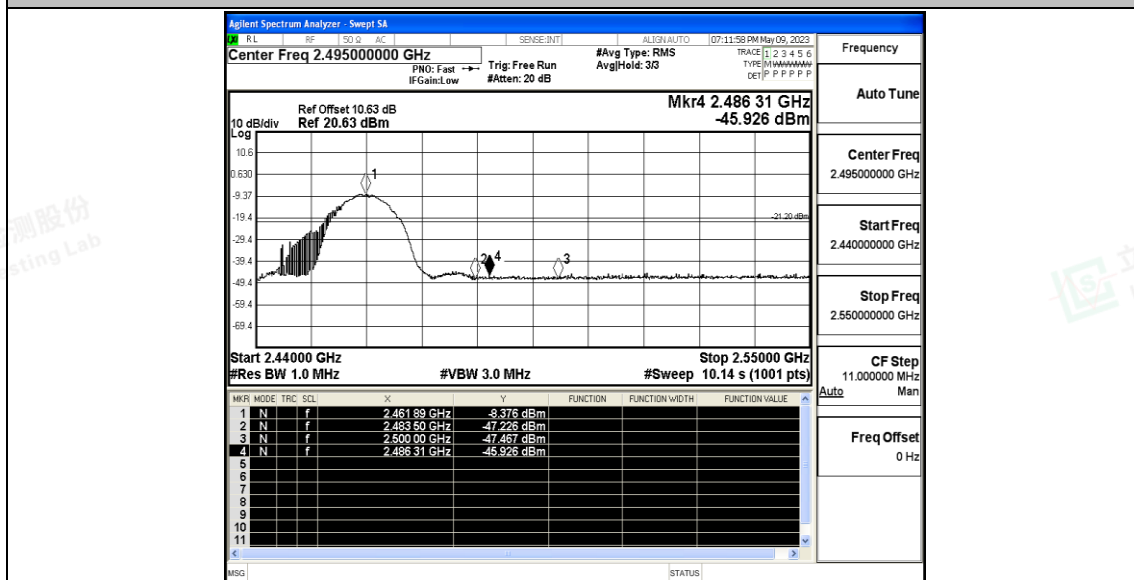
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11B_Ant_High_2462_Peak



11G_Ant_Low_2412_AV



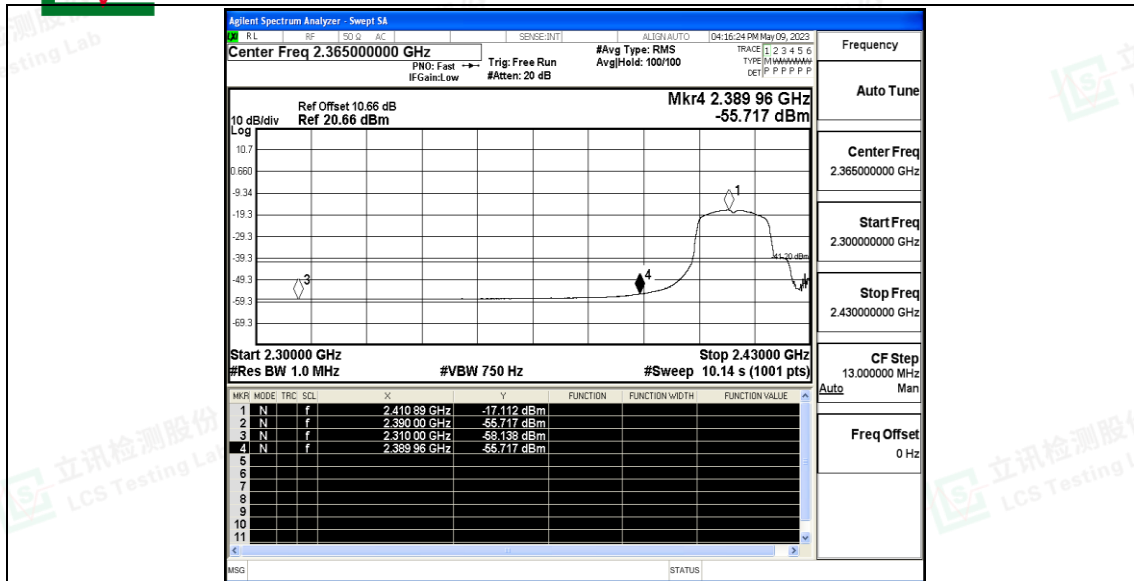
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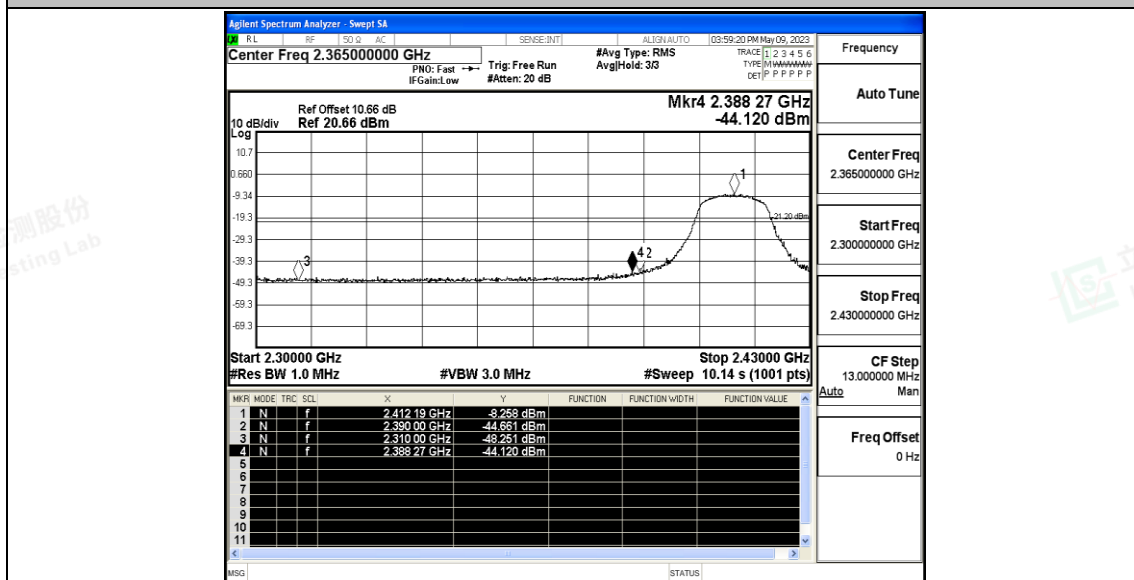
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11G_Ant_Low_2412_Peak



11G_Ant_High_2462_AV

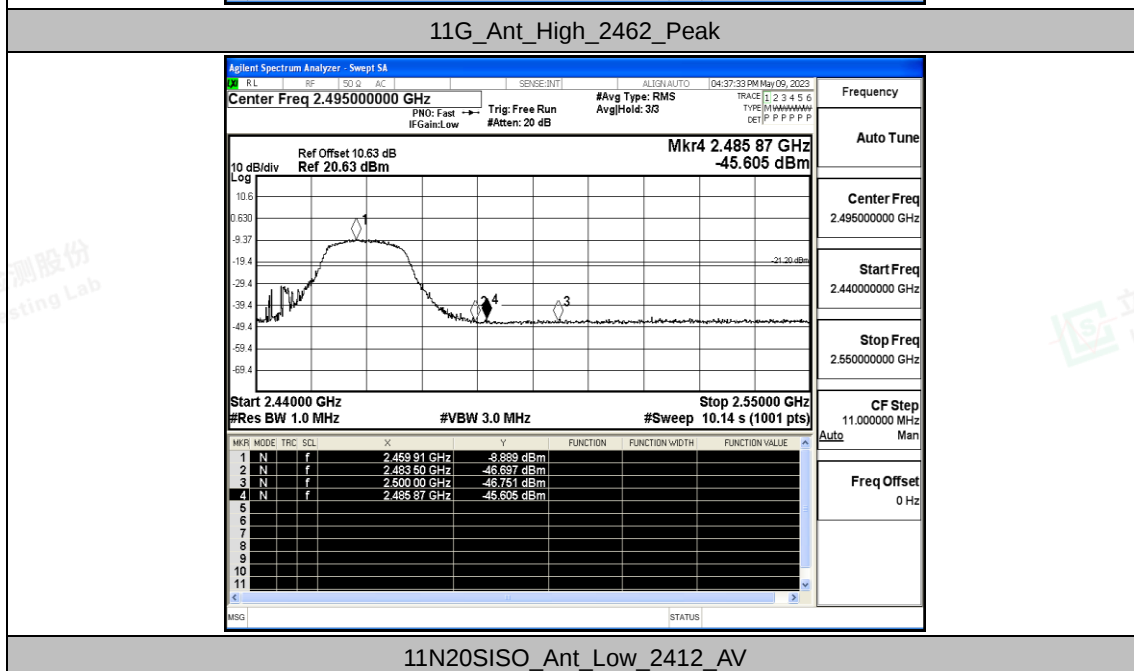
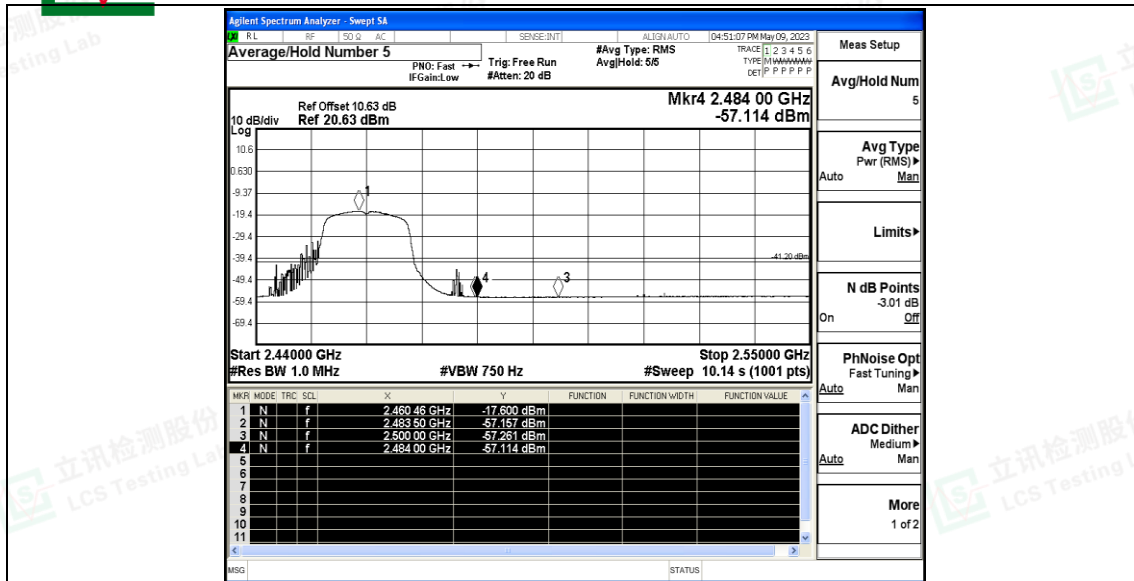


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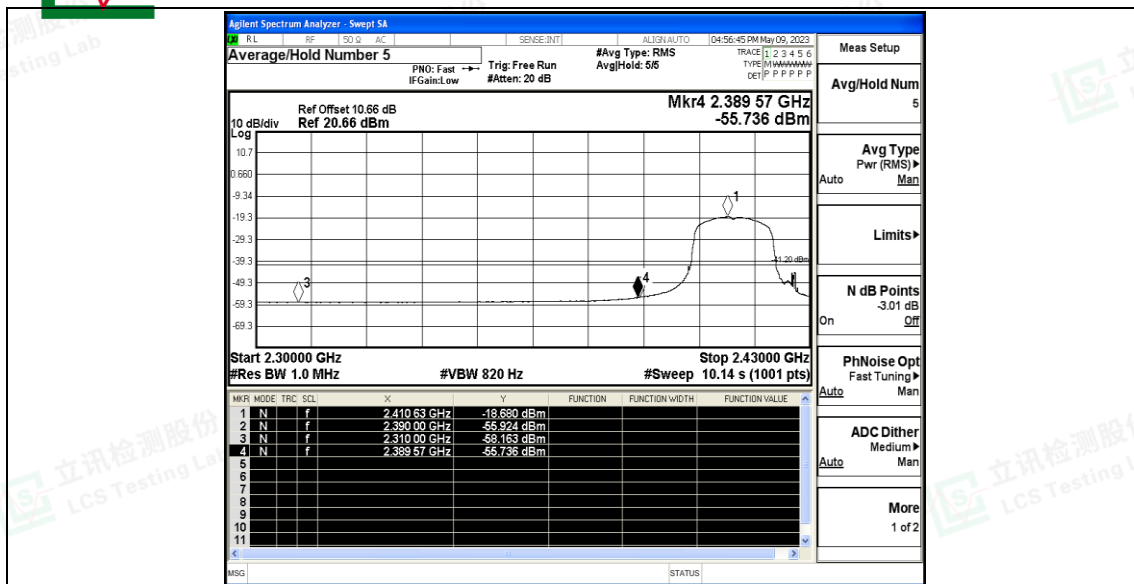


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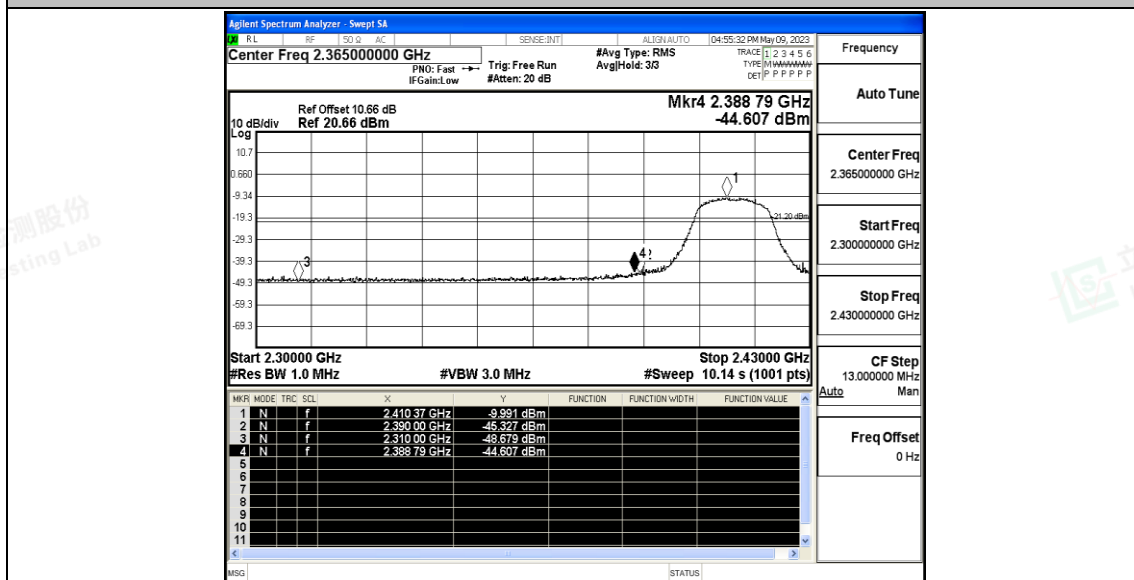
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11N20SISO_Ant_Low_2412_Peak



11N20SISO_Ant_High_2462_AV

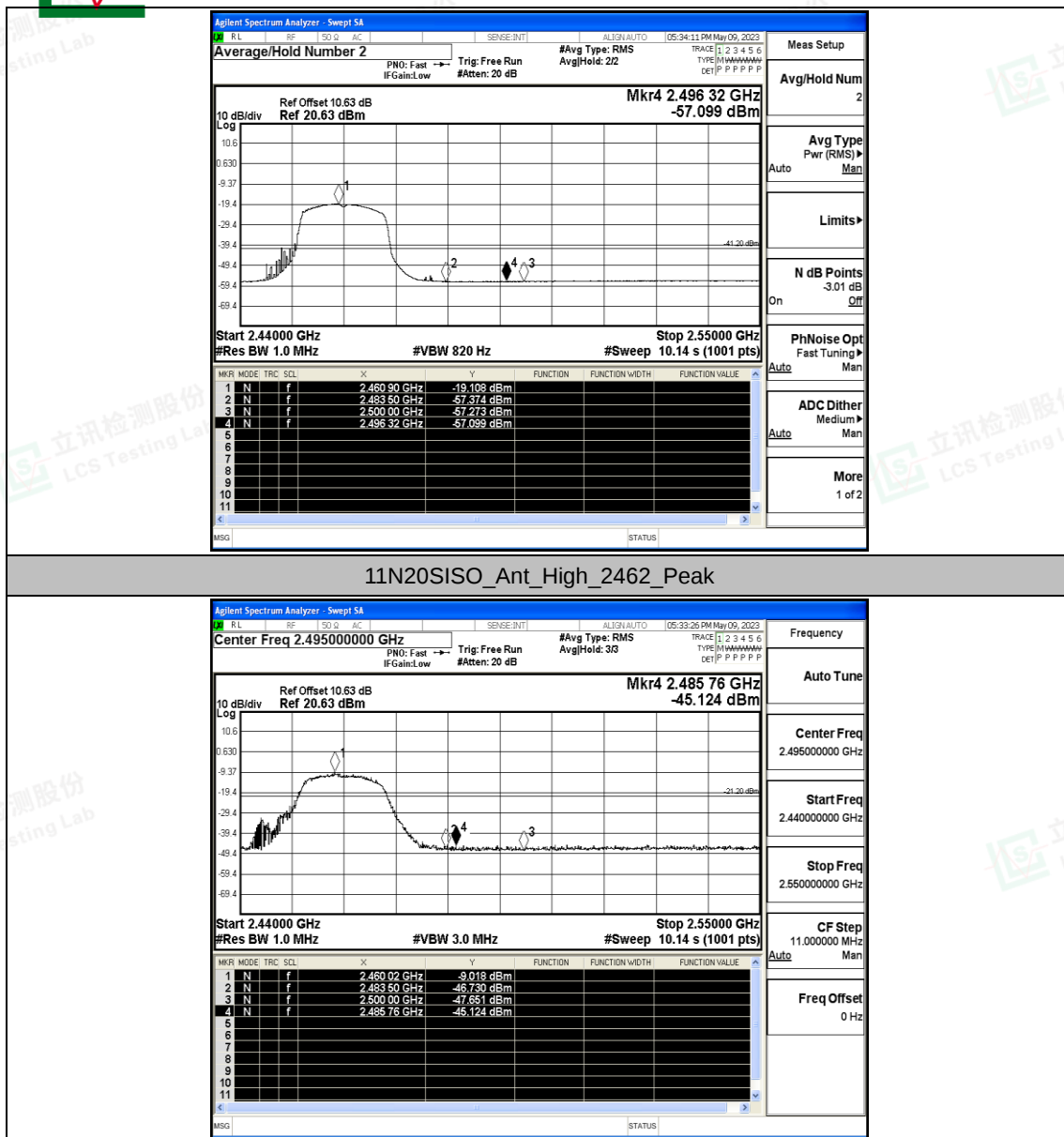


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