



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: NOTEBOOK

Test Model: H719

Environmental Conditions

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



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C.1 DTS Bandwidth

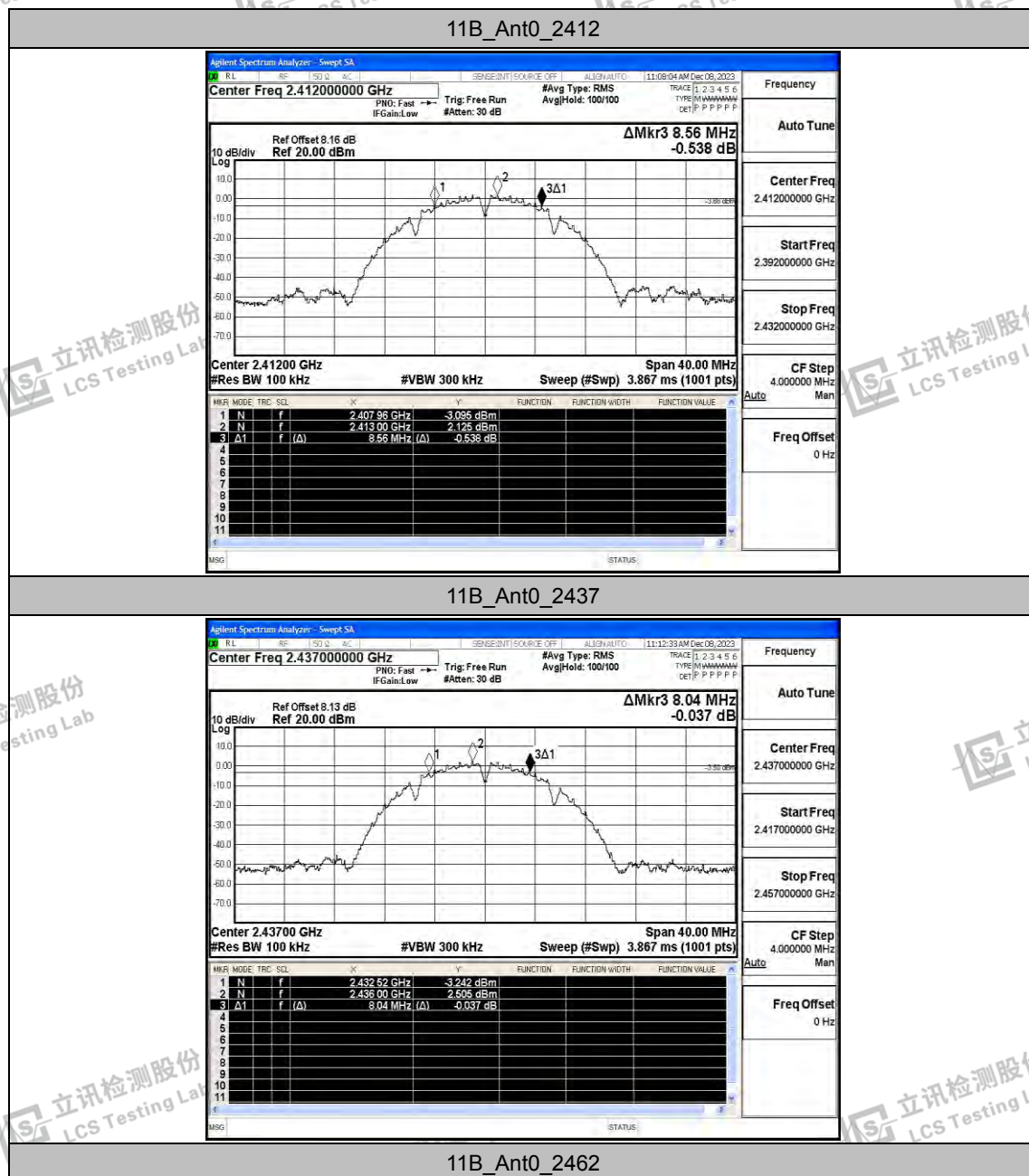
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	8.560	2407.960	2416.520	0.5	PASS
		2437	8.040	2432.520	2440.560	0.5	PASS
		2462	8.080	2458.000	2466.080	0.5	PASS
11G	Ant0	2412	15.280	2404.480	2419.760	0.5	PASS
		2437	13.560	2428.840	2442.400	0.5	PASS
		2462	14.480	2455.680	2470.160	0.5	PASS
11N20SISO	Ant0	2412	16.280	2404.120	2420.400	0.5	PASS
		2437	16.040	2428.480	2444.520	0.5	PASS
		2462	13.880	2456.920	2470.800	0.5	PASS
11N40SISO	Ant0	2422	31.360	2406.960	2438.320	0.5	PASS
		2437	25.040	2419.480	2444.520	0.5	PASS
		2452	36.320	2433.840	2470.160	0.5	PASS





Test Graphs

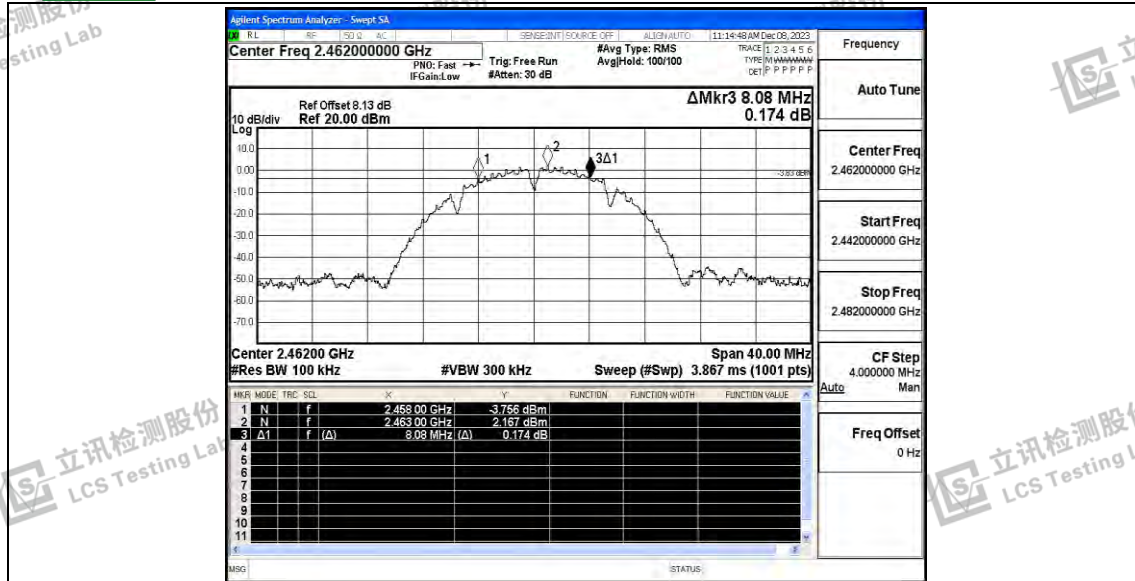


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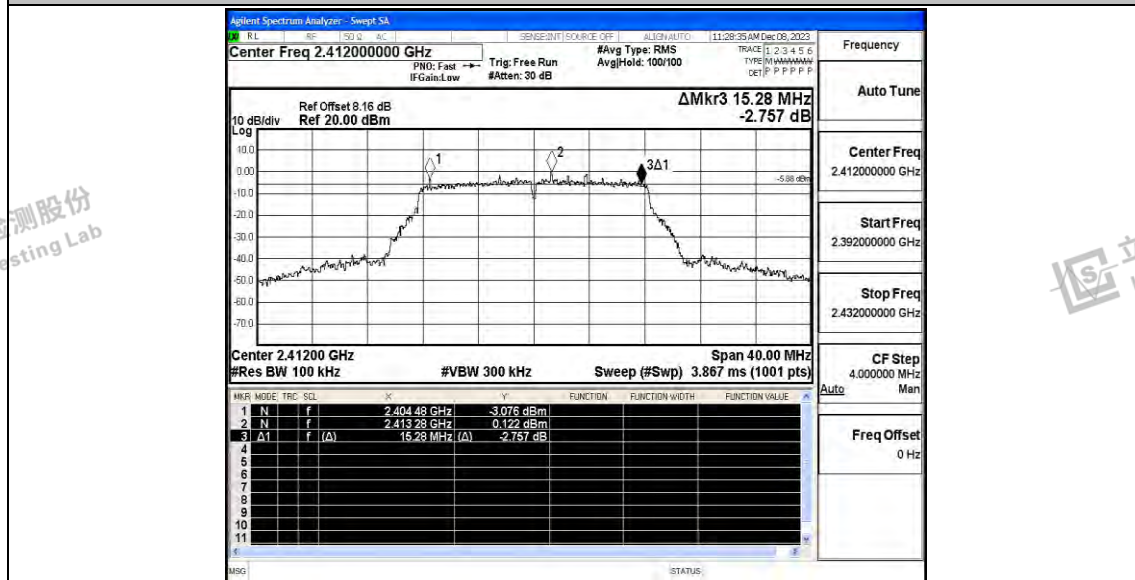
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11G_Ant0_2412



11G_Ant0_2437

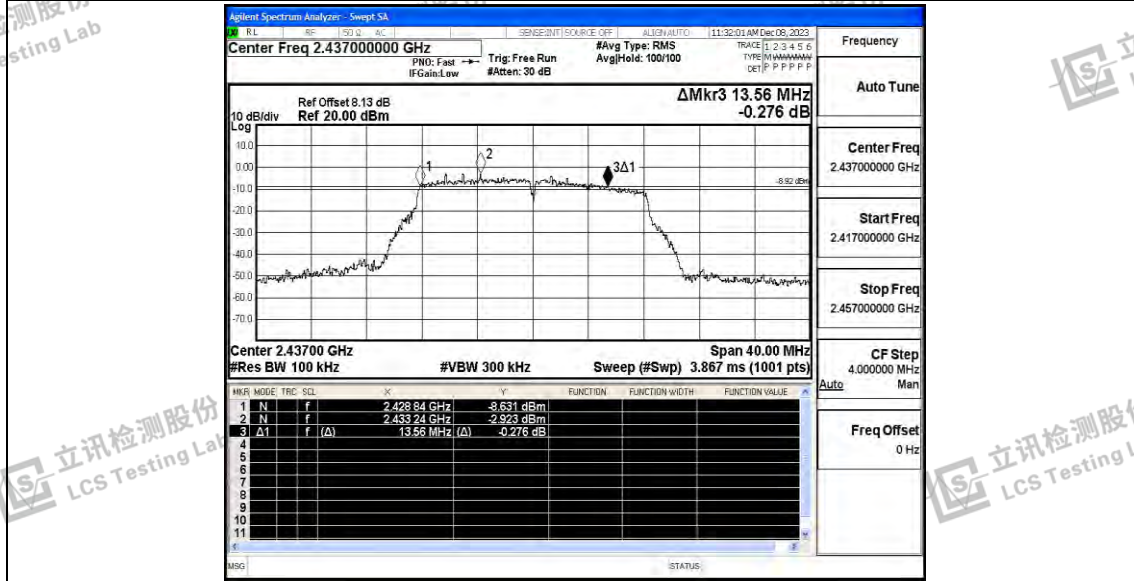


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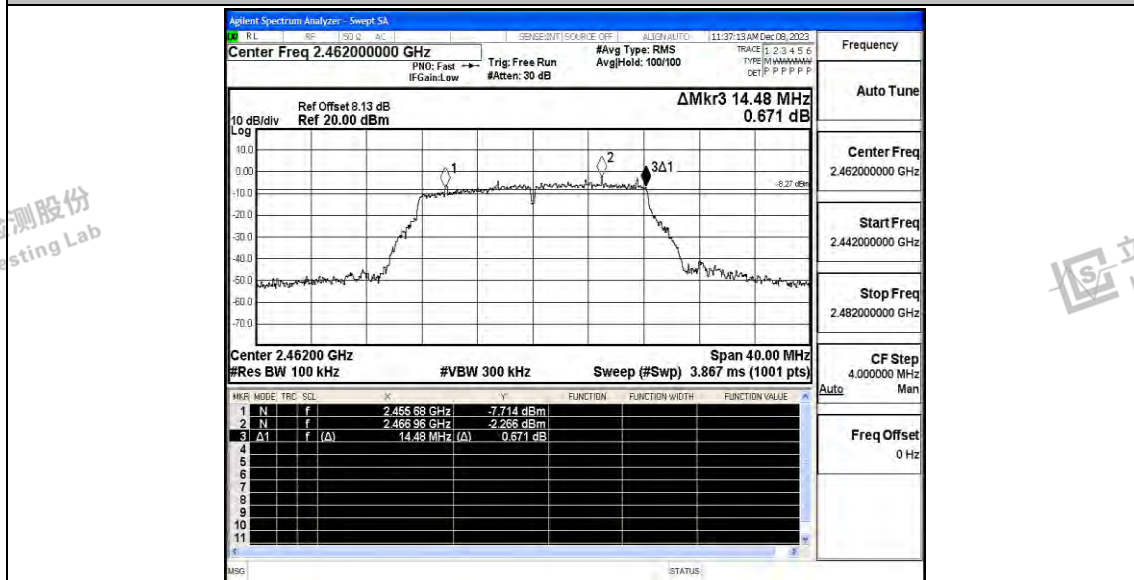
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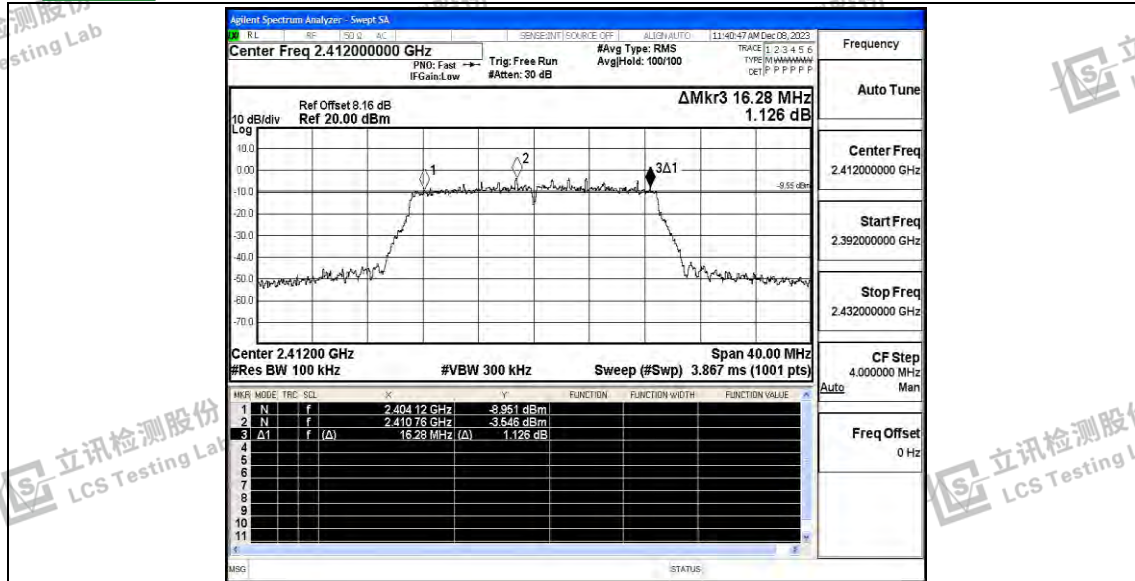


11G_Ant0_2462

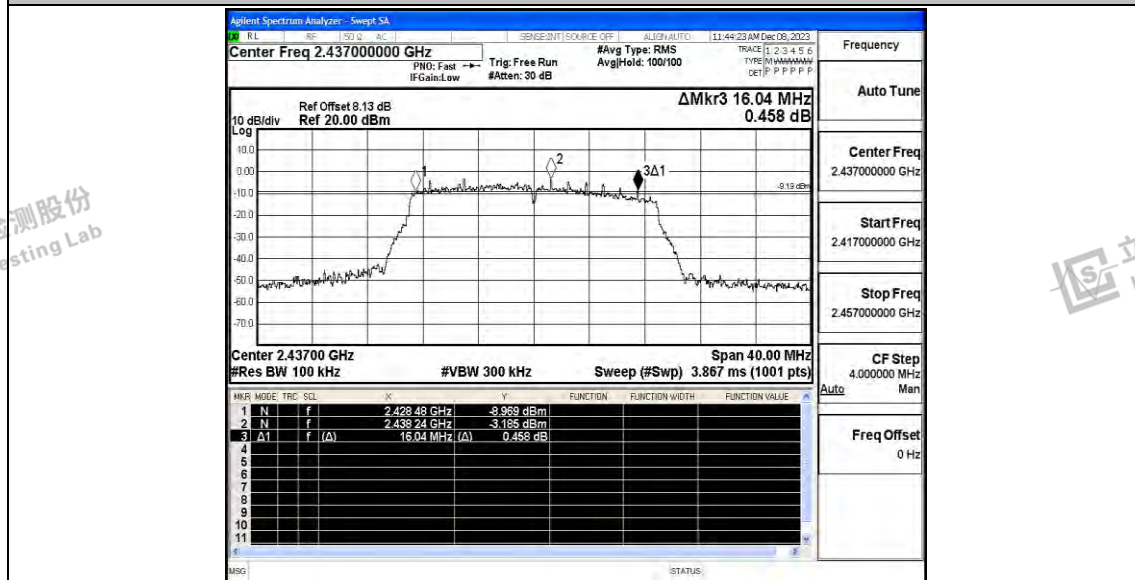


11N20SISO_Ant0_2412





11N20SISO_Ant0_2437



11N20SISO_Ant0_2462

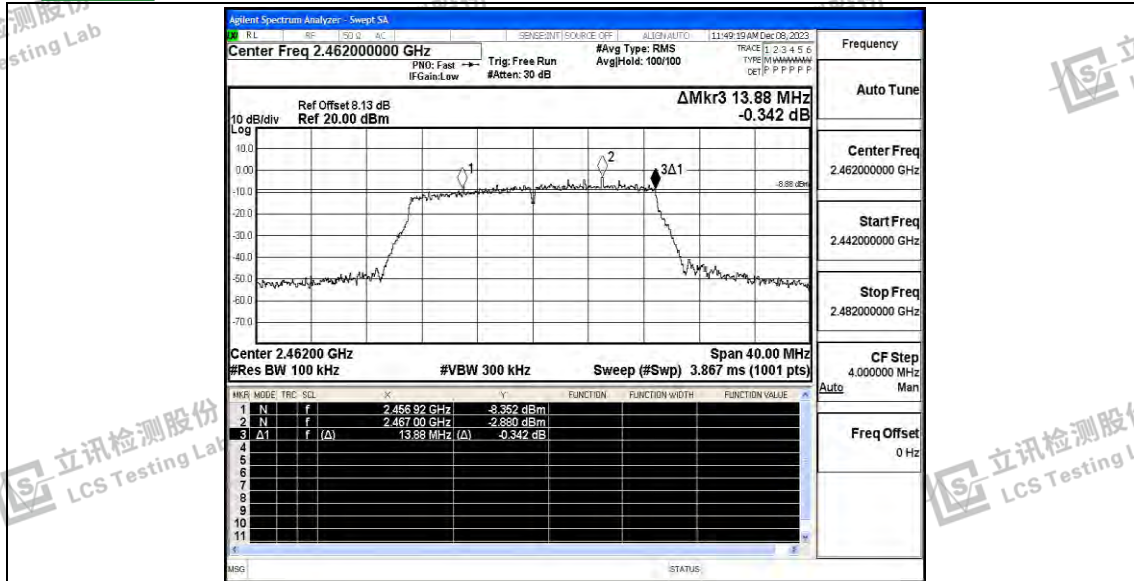


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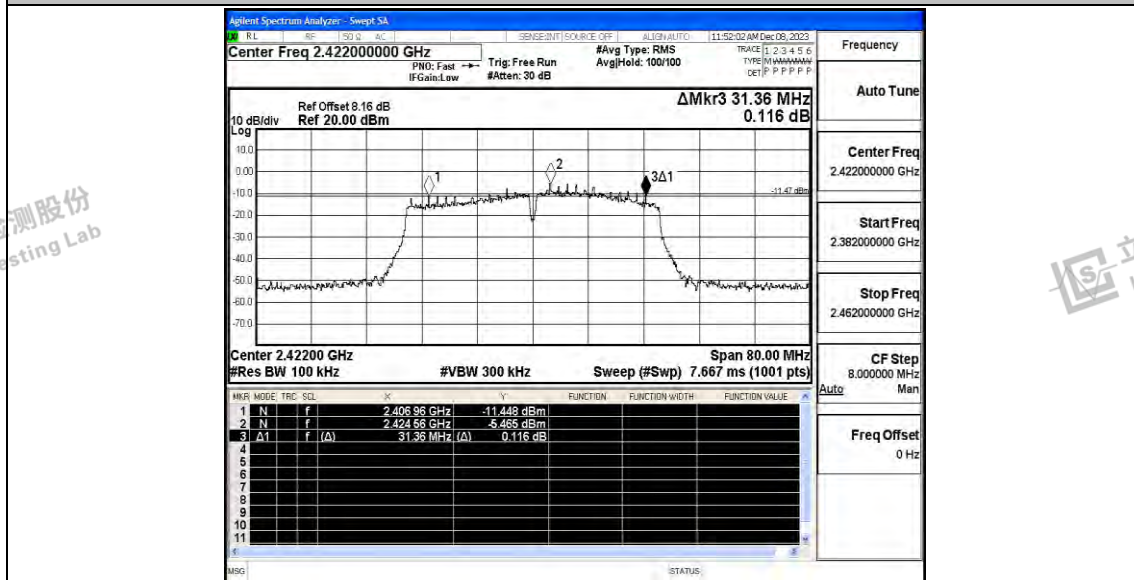
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11N40SISO_Ant0_2422



11N40SISO_Ant0_2437

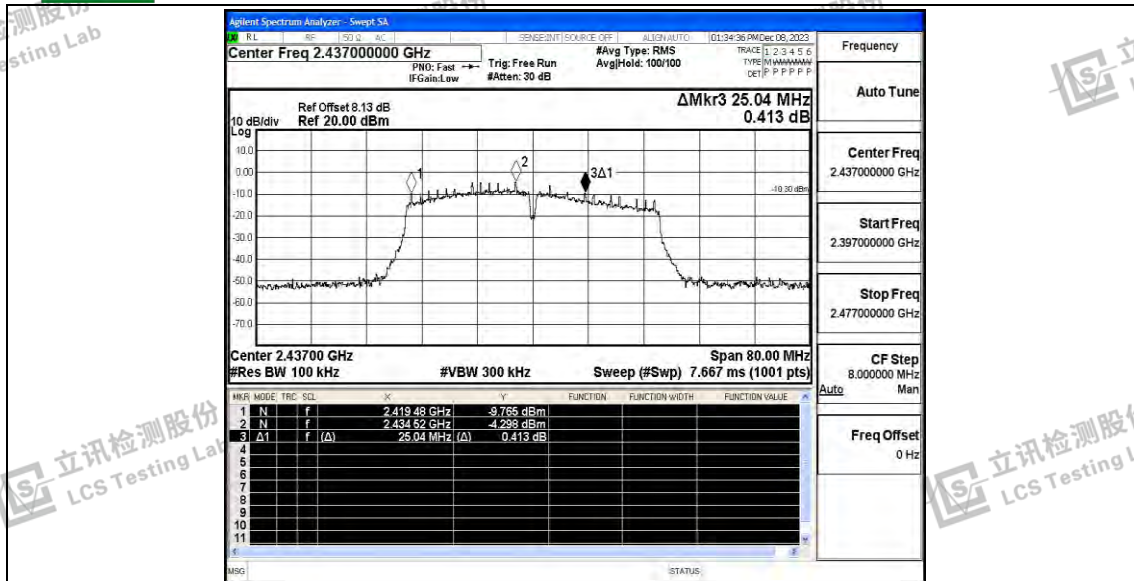


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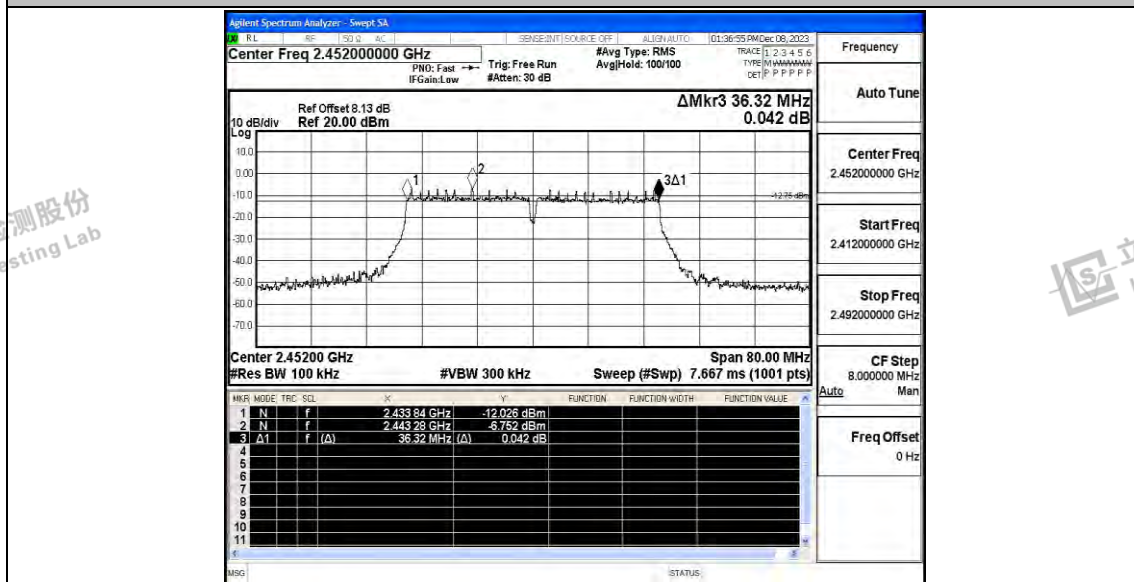
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant0_2452



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**Test Result**

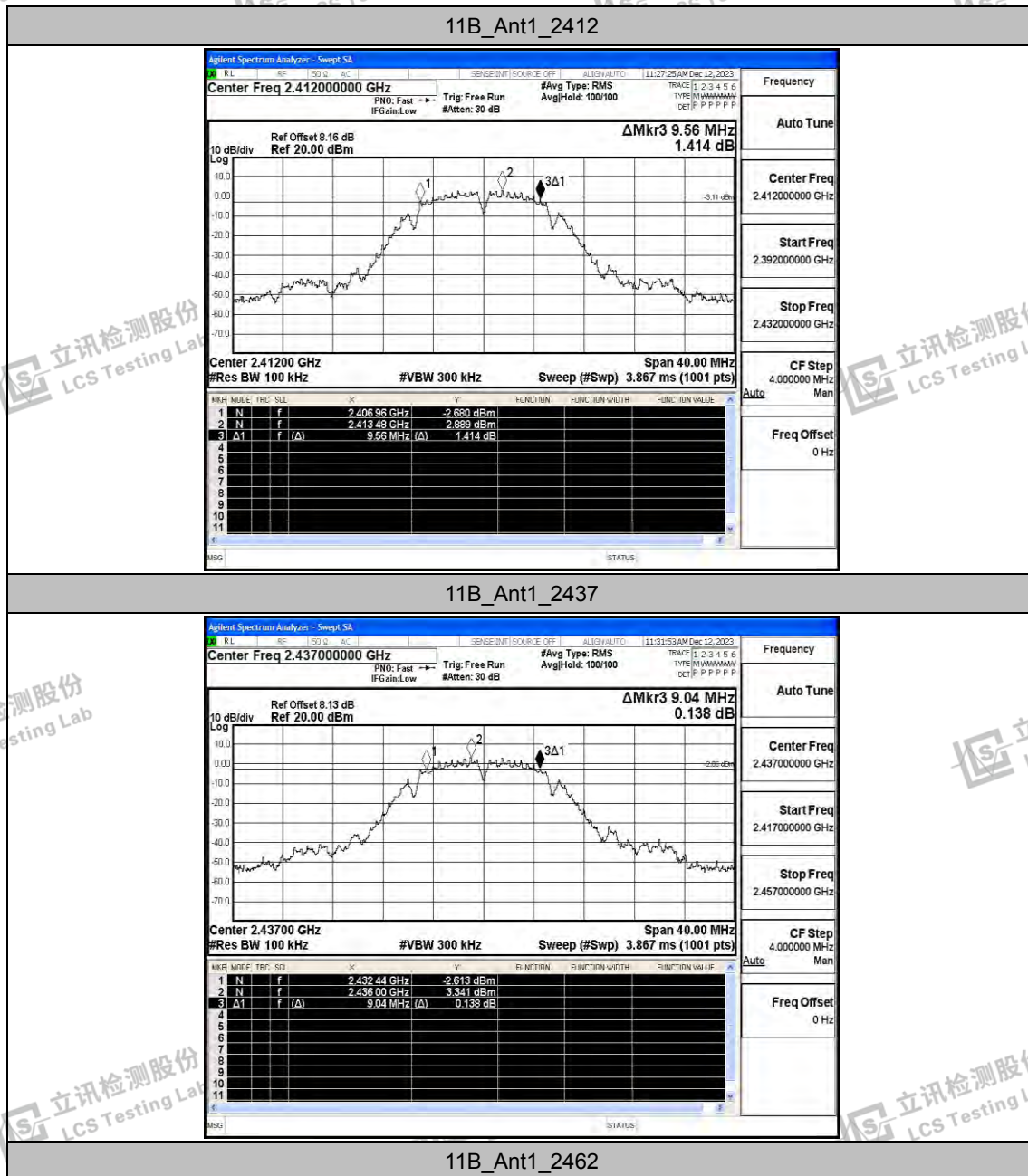
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.560	2406.960	2416.520	0.5	PASS
		2437	9.040	2432.440	2441.480	0.5	PASS
		2462	9.560	2457.440	2467.000	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	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	36.080	2404.080	2440.160	0.5	PASS
		2437	35.840	2419.080	2454.920	0.5	PASS
		2452	36.080	2434.080	2470.160	0.5	PASS



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Test Graphs

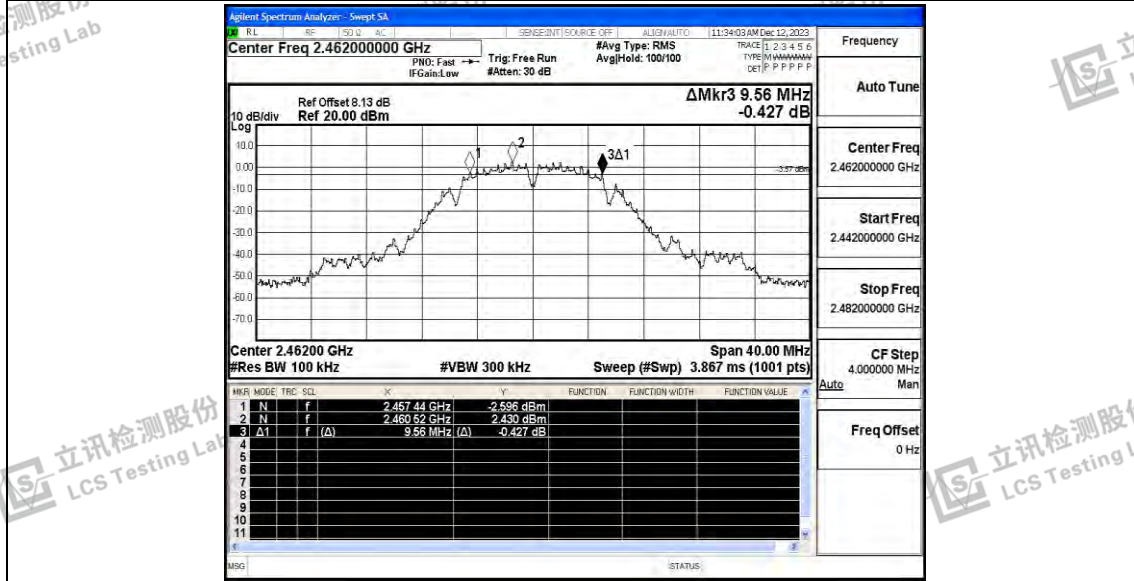


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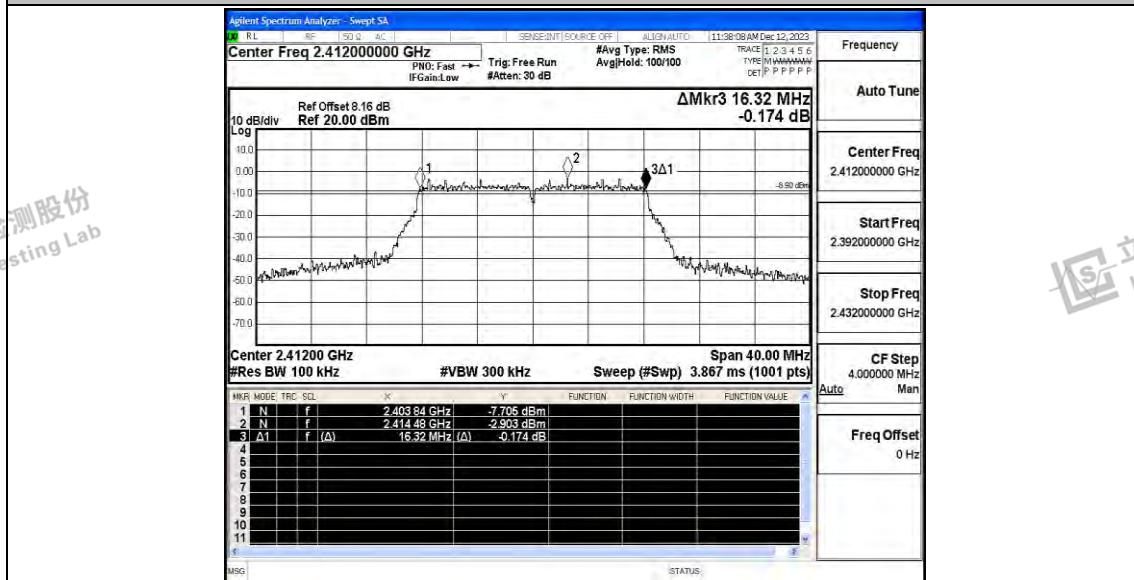
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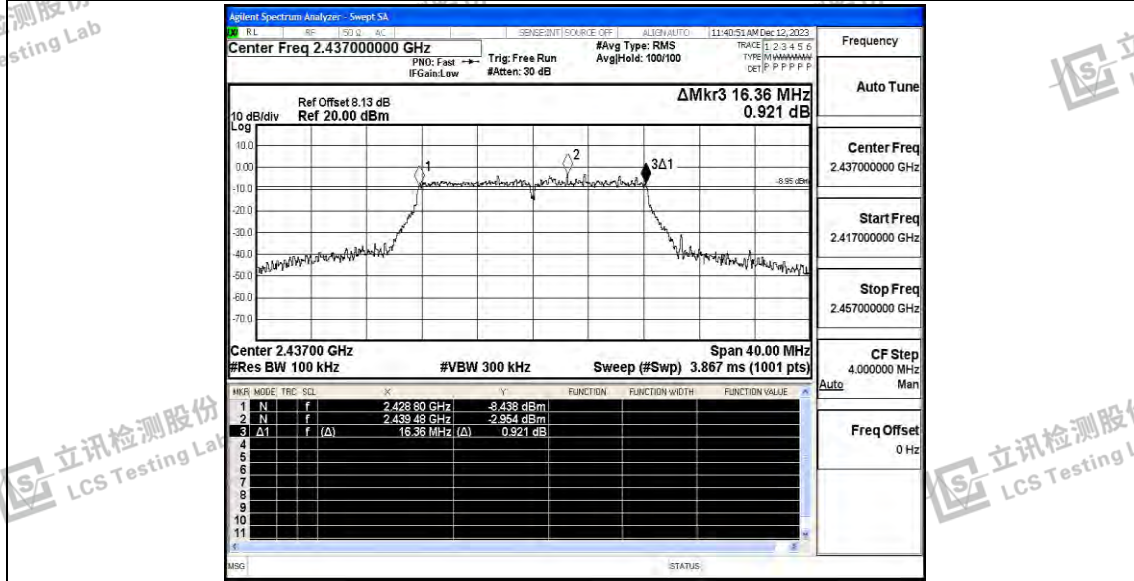


11G_Ant1_2412

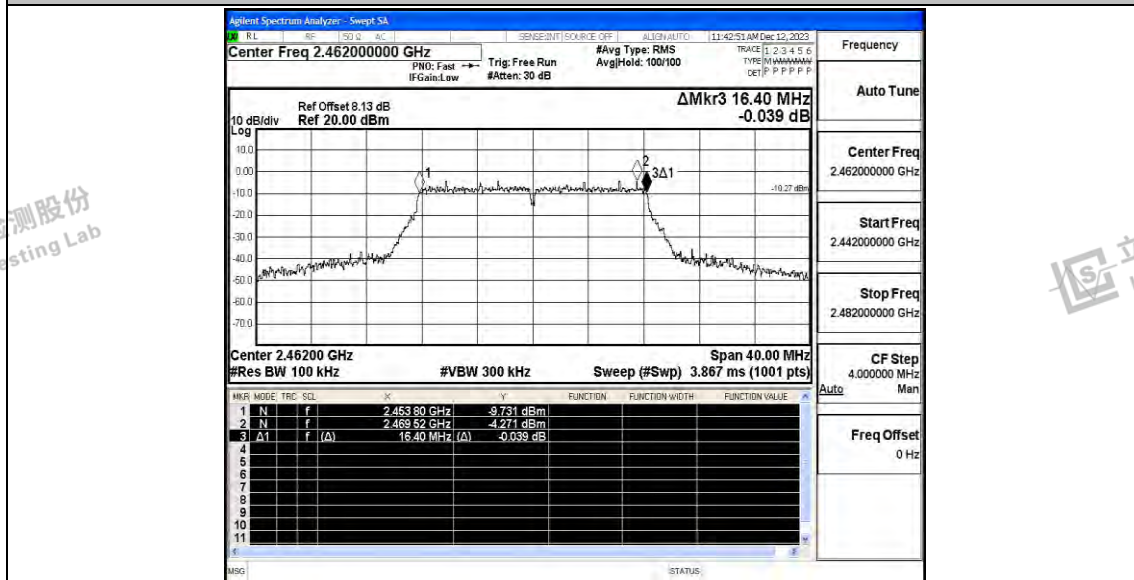


11G_Ant1_2437





11G_Ant1_2462



11N20SISO_Ant1_2412

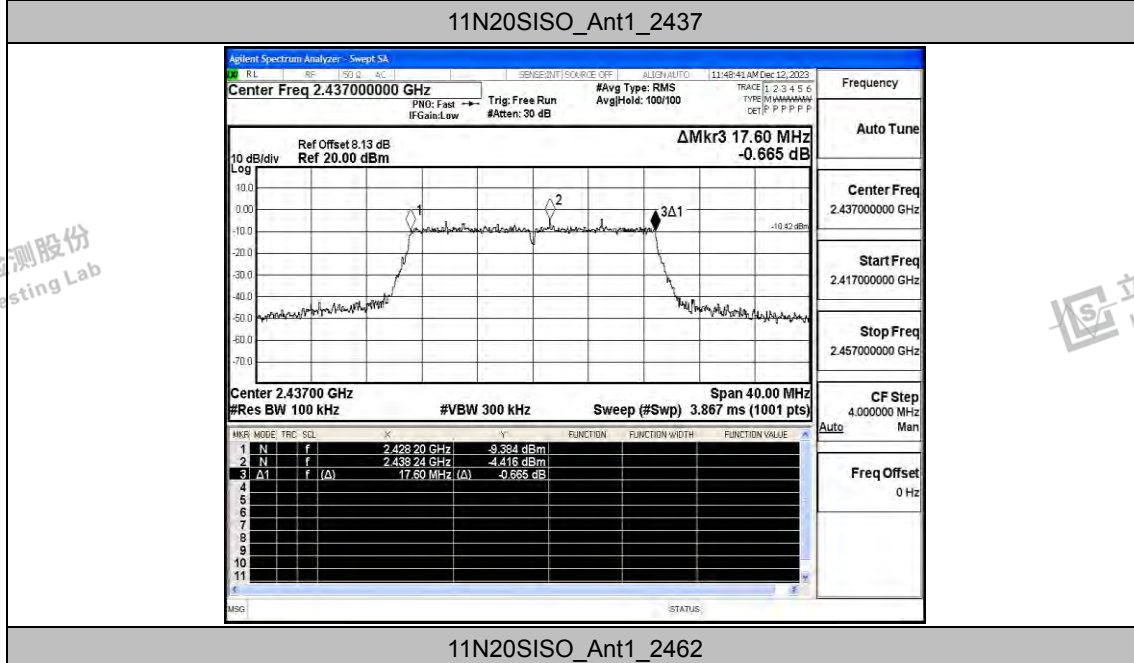
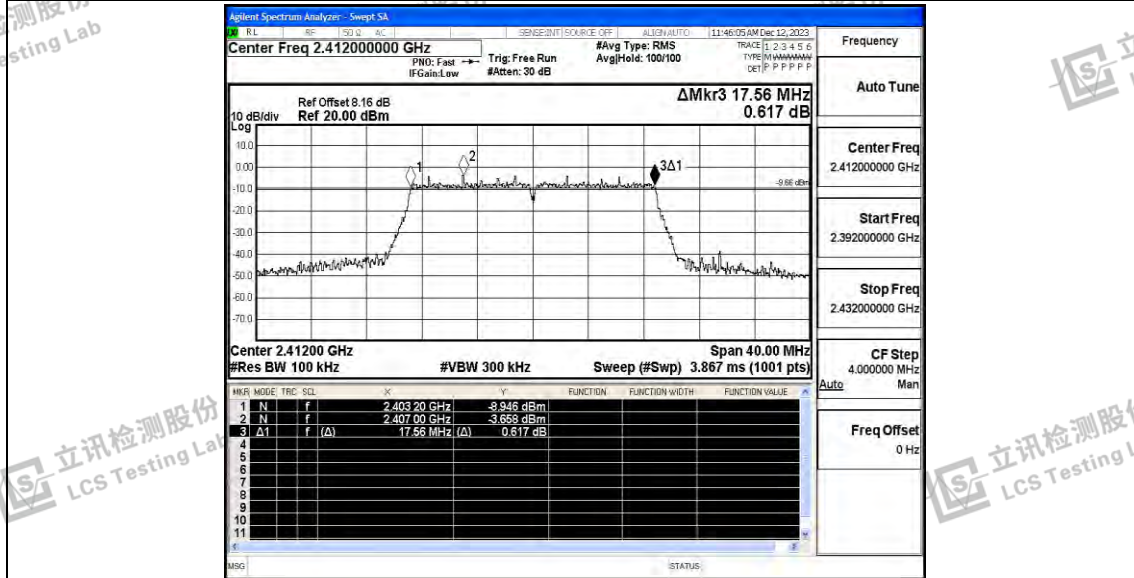


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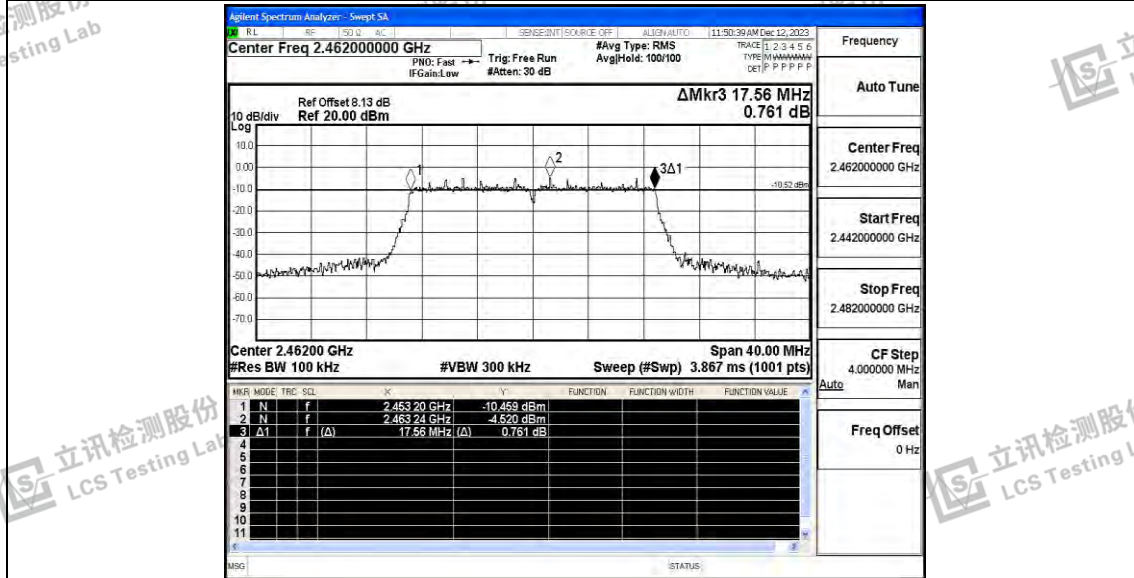


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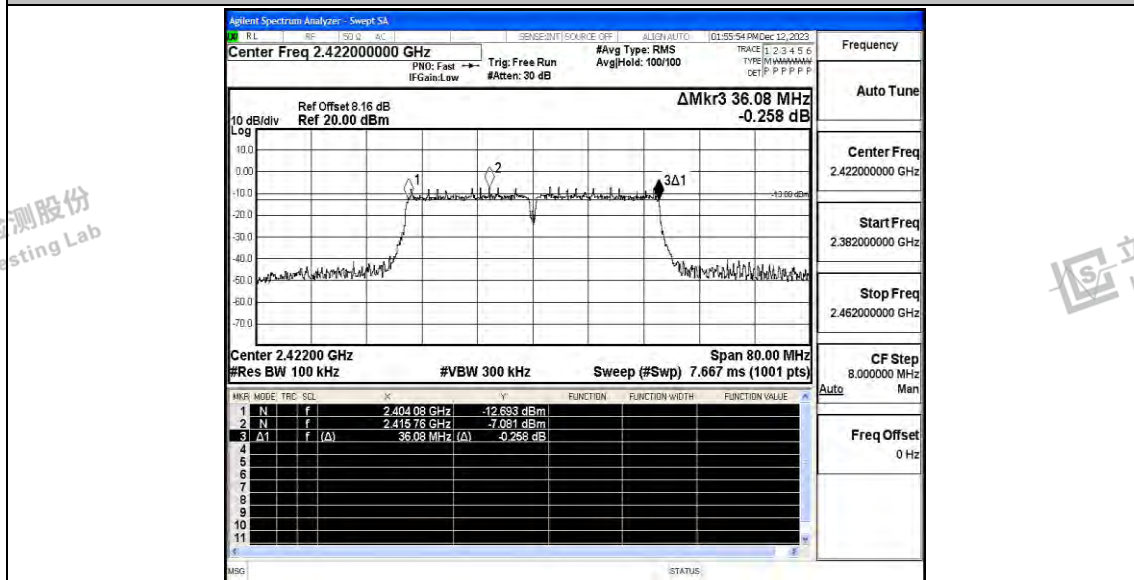
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

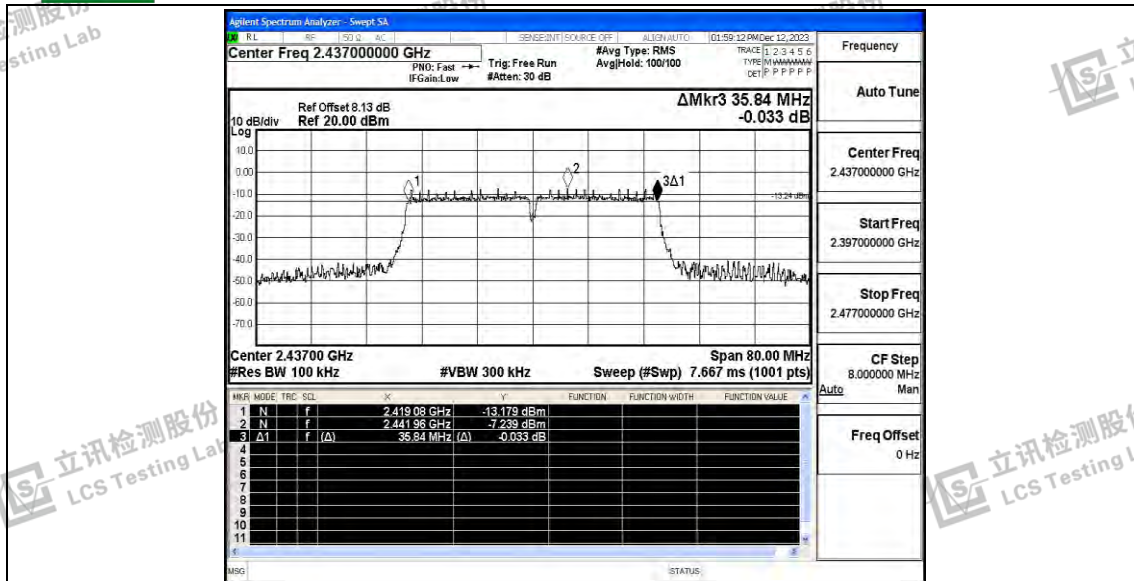


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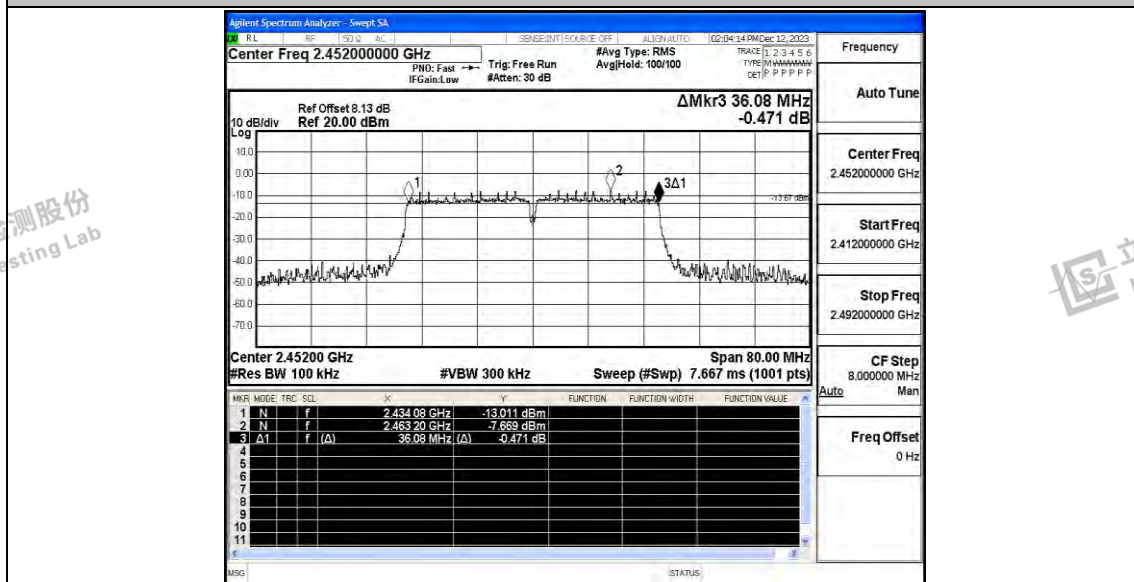
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11N40SISO_Ant1_2452





C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant0	2412	14.52	≤30.00	PASS
		2437	14.64	≤30.00	PASS
		2462	14.47	≤30.00	PASS
11G	Ant0	2412	14.48	≤30.00	PASS
		2437	14.68	≤30.00	PASS
		2462	14.64	≤30.00	PASS
11N20SISO	Ant0	2412	14.22	≤30.00	PASS
		2437	14.21	≤30.00	PASS
		2462	14.14	≤30.00	PASS
11N40SISO	Ant0	2422	13.67	≤30.00	PASS
		2437	13.66	≤30.00	PASS
		2452	13.54	≤30.00	PASS

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.46	≤30.00	PASS
		2437	15.08	≤30.00	PASS
		2462	14.49	≤30.00	PASS
11G	Ant1	2412	15.24	≤30.00	PASS
		2437	14.87	≤30.00	PASS
		2462	13.96	≤30.00	PASS
11N20SISO	Ant1	2412	14.15	≤30.00	PASS
		2437	13.30	≤30.00	PASS
		2462	13.11	≤30.00	PASS
11N40SISO	Ant1	2422	13.46	≤30.00	PASS
		2437	13.41	≤30.00	PASS
		2452	13.02	≤30.00	PASS





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	14.22	14.15	17.20	30	Pass
NVNT	n20	2437	14.21	13.30	16.79	30	Pass
NVNT	n20	2462	14.14	13.11	16.67	30	Pass
NVNT	n40	2422	13.67	13.46	16.58	30	Pass
NVNT	n40	2437	13.66	13.41	16.55	30	Pass
NVNT	n40	2452	13.54	13.02	16.30	30	Pass



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C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant0	2412	-12.76	≤8.00	PASS
		2437	-12.73	≤8.00	PASS
		2462	-13.51	≤8.00	PASS
11G	Ant0	2412	-17.29	≤8.00	PASS
		2437	-17.18	≤8.00	PASS
		2462	-17.14	≤8.00	PASS
11N20SISO	Ant0	2412	-17.44	≤8.00	PASS
		2437	-18.83	≤8.00	PASS
		2462	-17.53	≤8.00	PASS
11N40SISO	Ant0	2422	-18.85	≤8.00	PASS
		2437	-19.97	≤8.00	PASS
		2452	-21.17	≤8.00	PASS

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-6.77	≤8.00	PASS
		2437	-7.19	≤8.00	PASS
		2462	-10.72	≤8.00	PASS
11G	Ant1	2412	-15.79	≤8.00	PASS
		2437	-16.48	≤8.00	PASS
		2462	-17.38	≤8.00	PASS
11N20SISO	Ant1	2412	-17.49	≤8.00	PASS
		2437	-18.57	≤8.00	PASS
		2462	-18.77	≤8.00	PASS
11N40SISO	Ant1	2422	-20.07	≤8.00	PASS
		2437	-20.94	≤8.00	PASS
		2452	-20.98	≤8.00	PASS



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MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	-17.44	-17.49	-14.45	8	Pass
NVNT	n20	2437	-18.83	-18.57	-15.69	8	Pass
NVNT	n20	2462	-17.53	-18.77	-15.10	8	Pass
NVNT	n40	2422	-18.85	-20.07	-16.41	8	Pass
NVNT	n40	2437	-19.97	-20.94	-17.42	8	Pass
NVNT	n40	2452	-21.17	-20.98	-18.06	8	Pass



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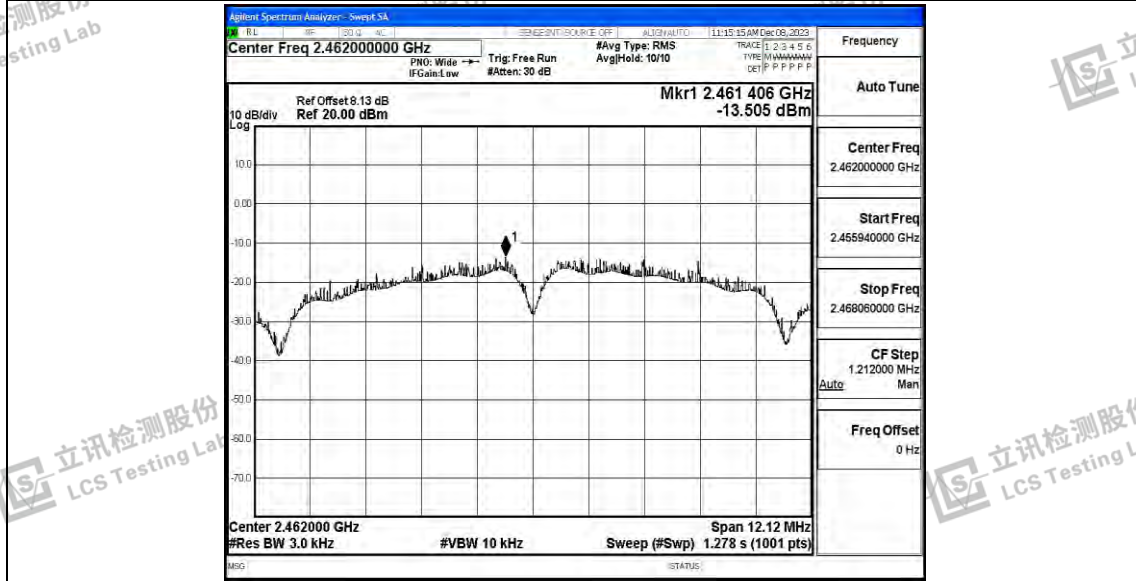
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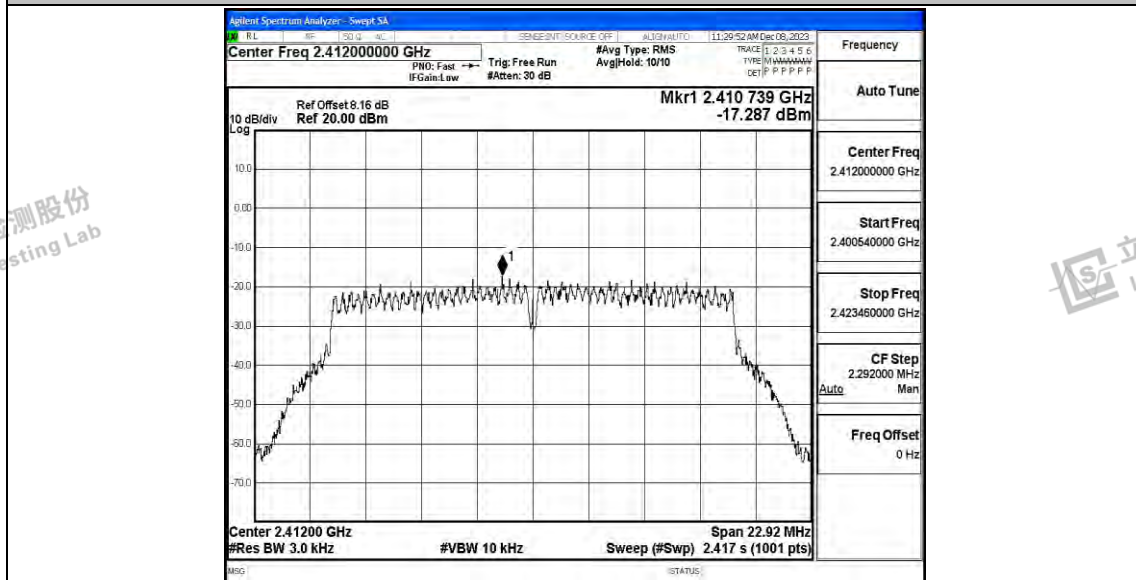


Test Graphs



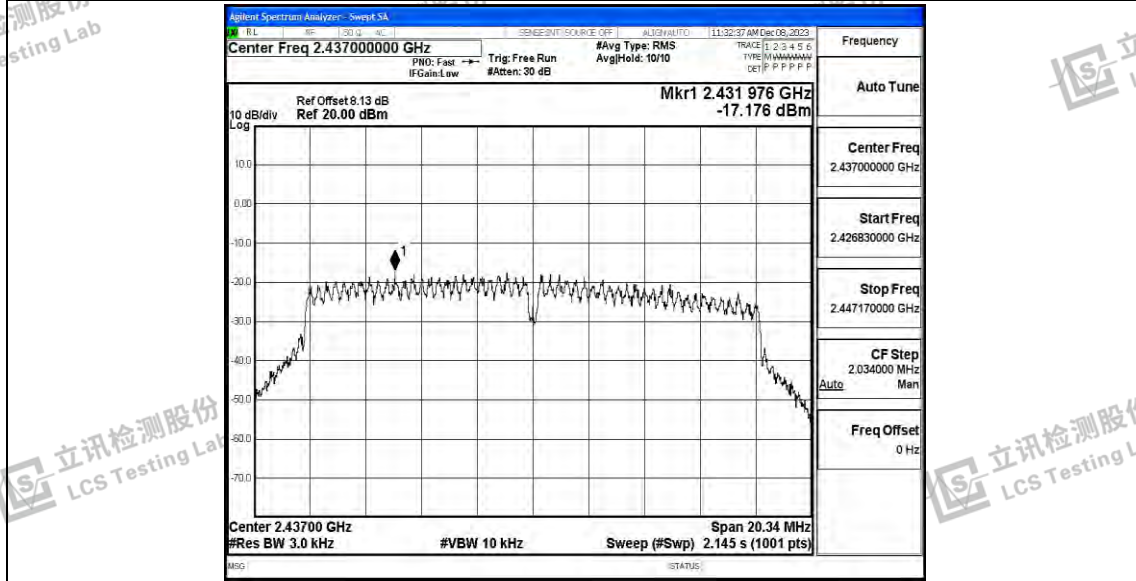


11G_Ant0_2412

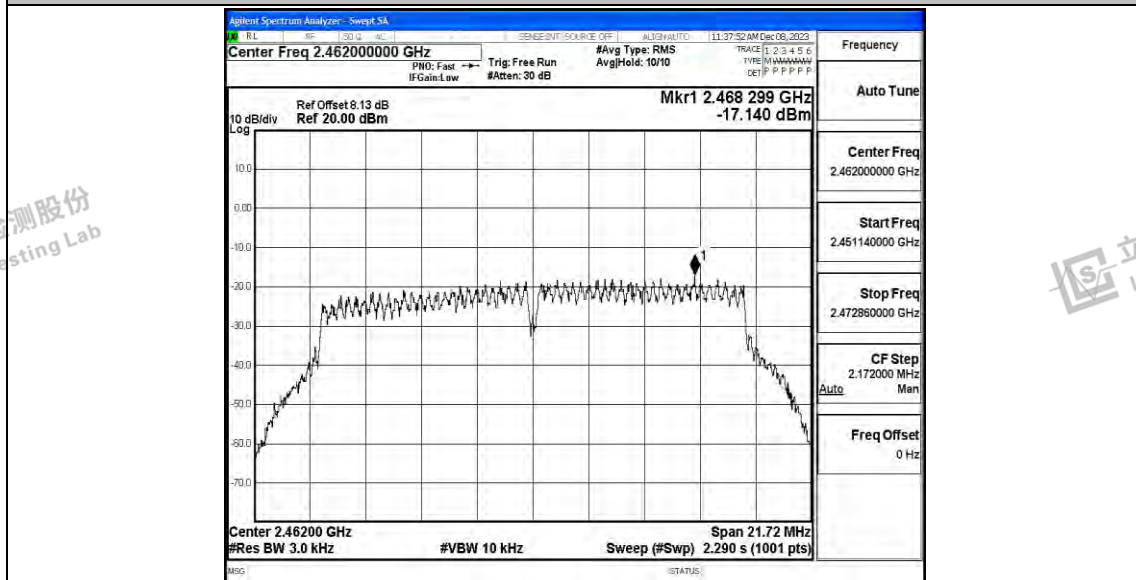


11G_Ant0_2437



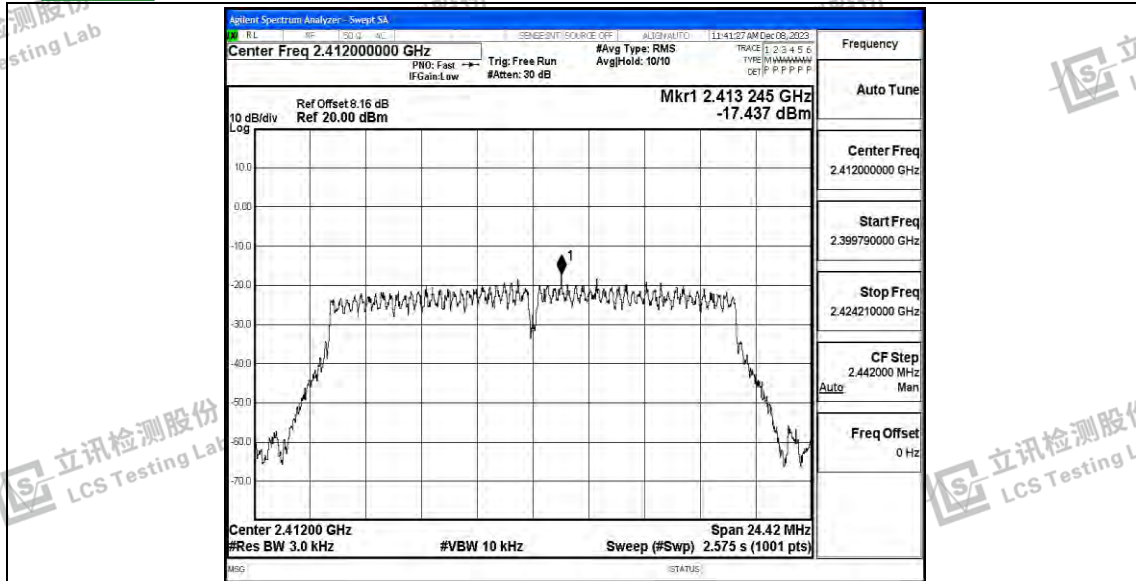


11G_Ant0_2462

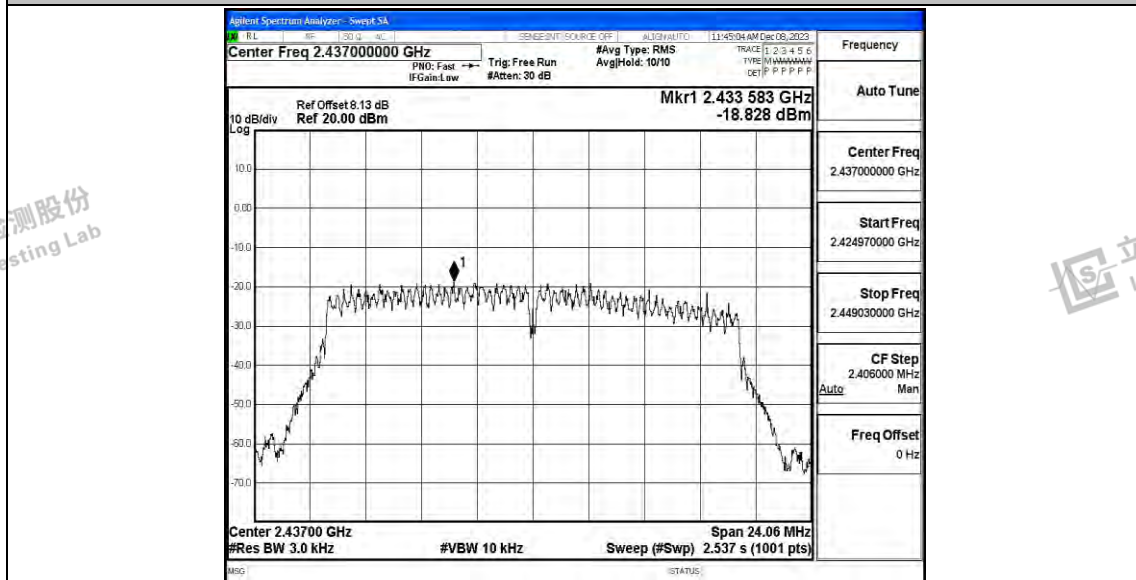


11N20SISO_Ant0_2412



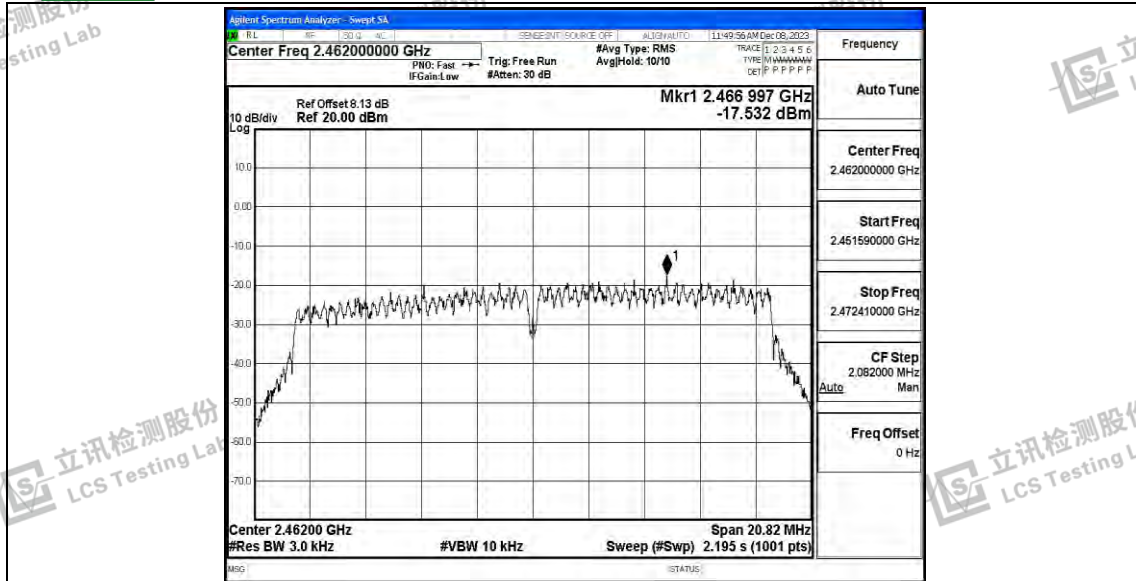


11N20SISO_Ant0_2437

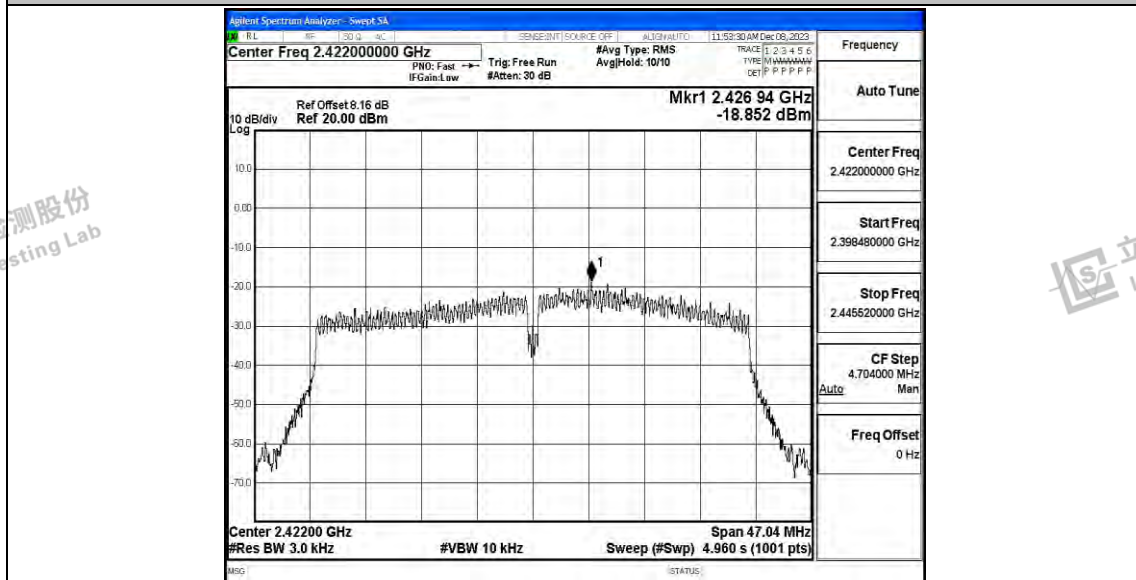


11N20SISO_Ant0_2462



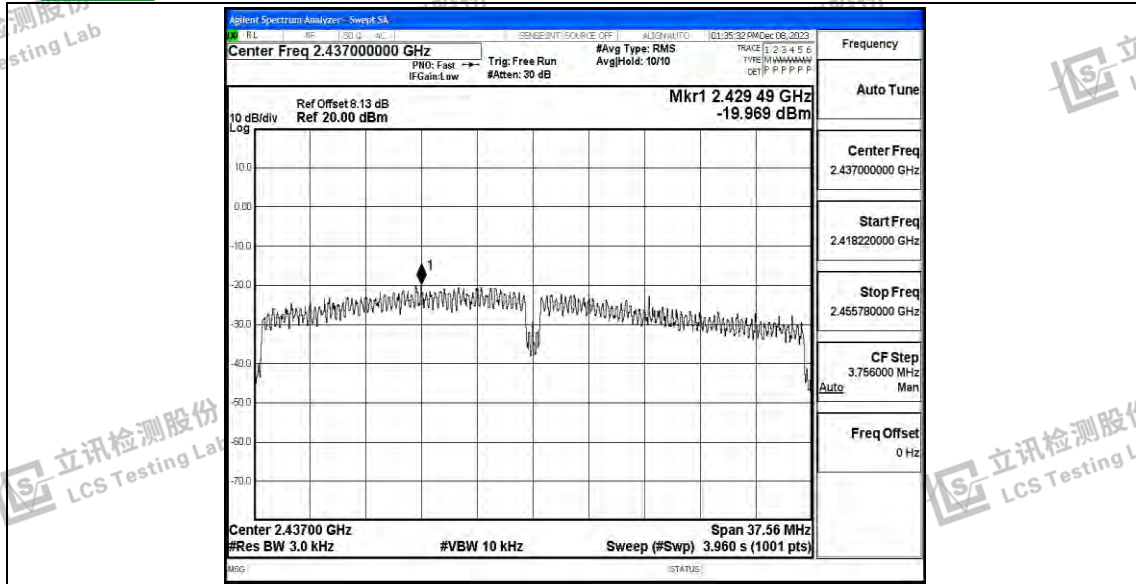


11N40SISO_Ant0_2422

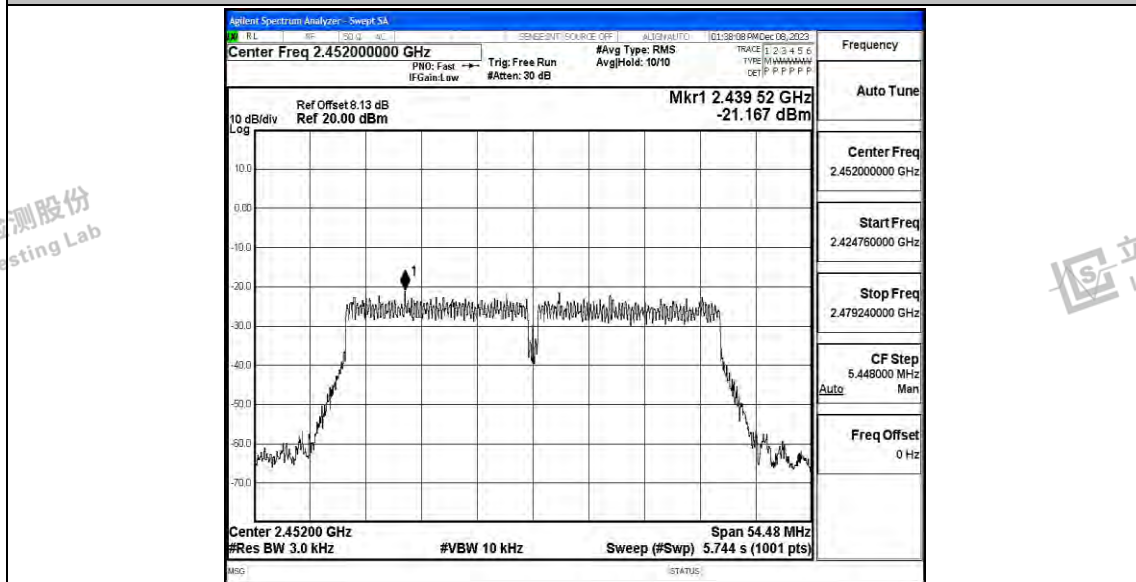


11N40SISO_Ant0_2437





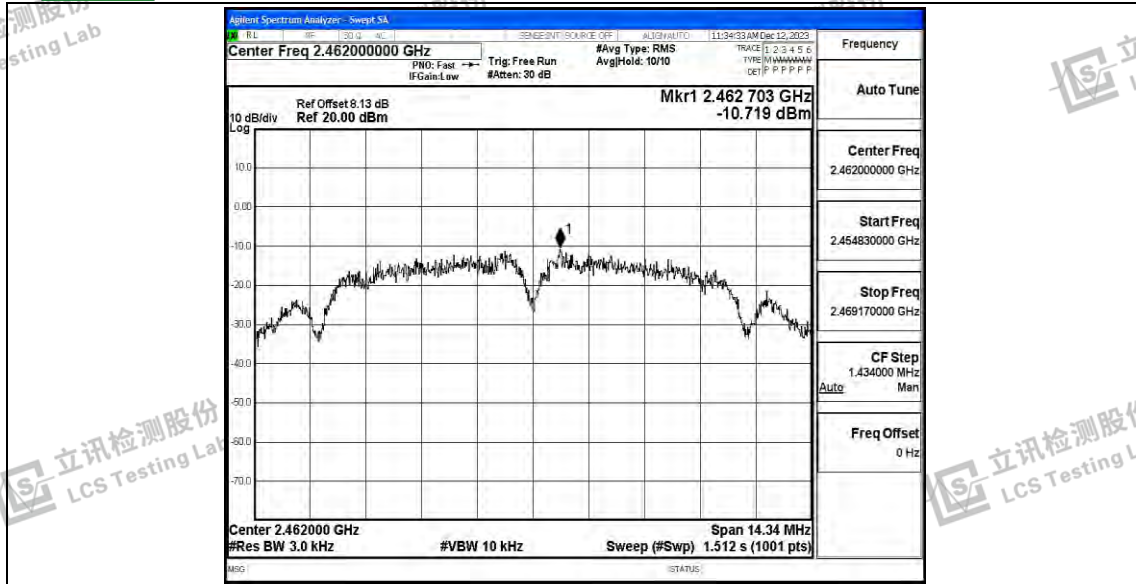
11N40SISO_Ant0_2452



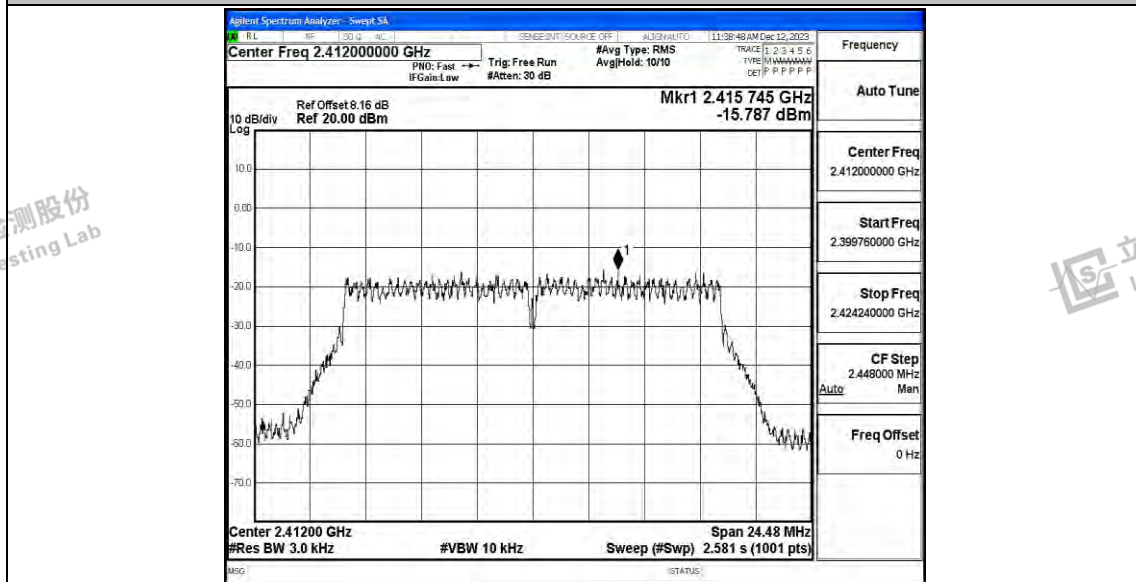


Test Graphs



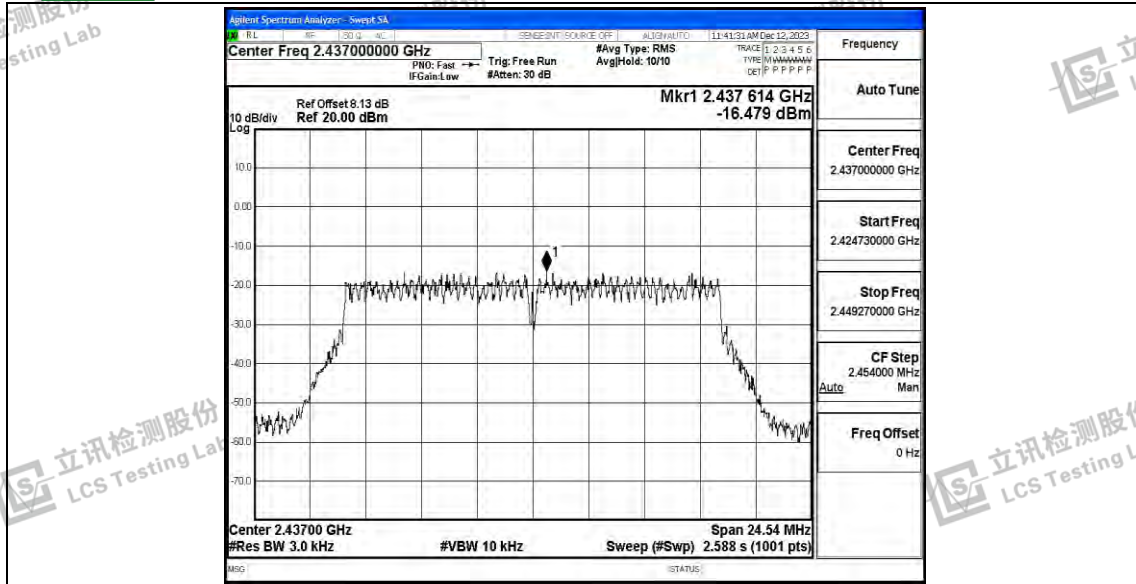


11G_Ant1_2412

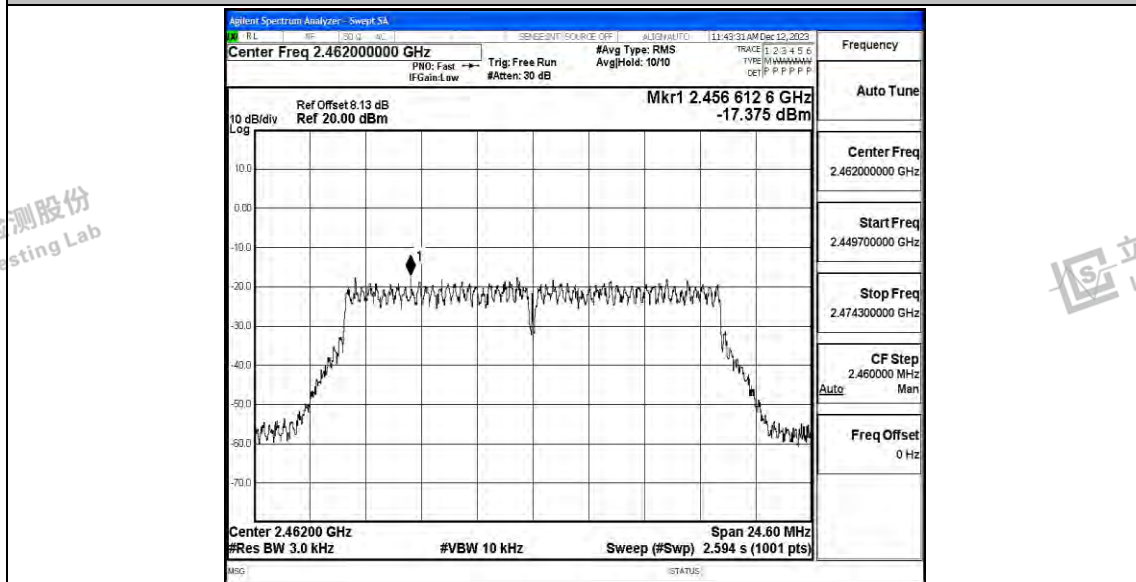


11G_Ant1_2437



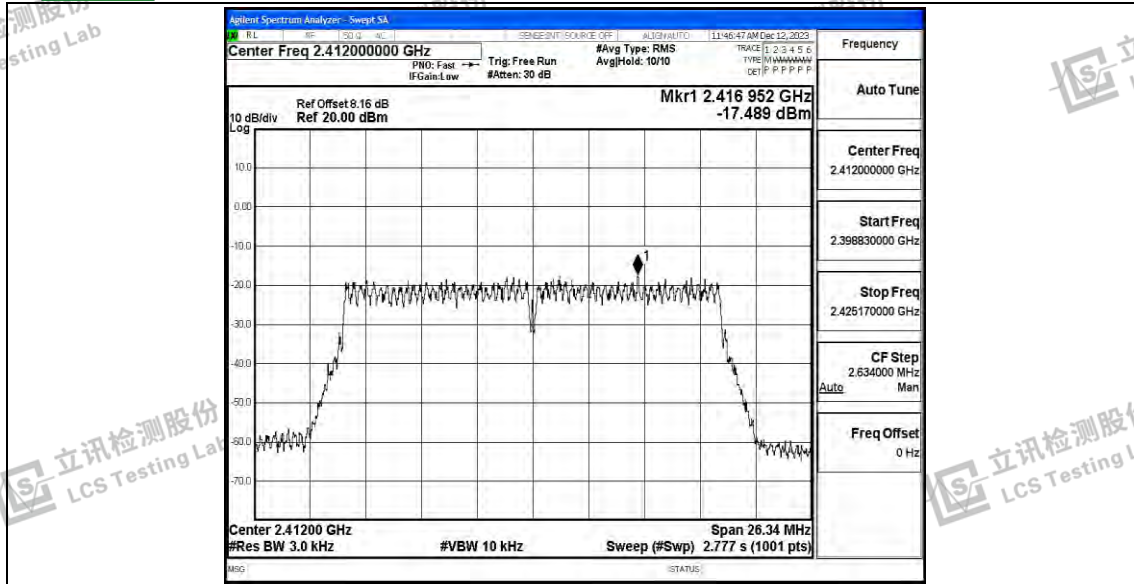


11G_Ant1_2462

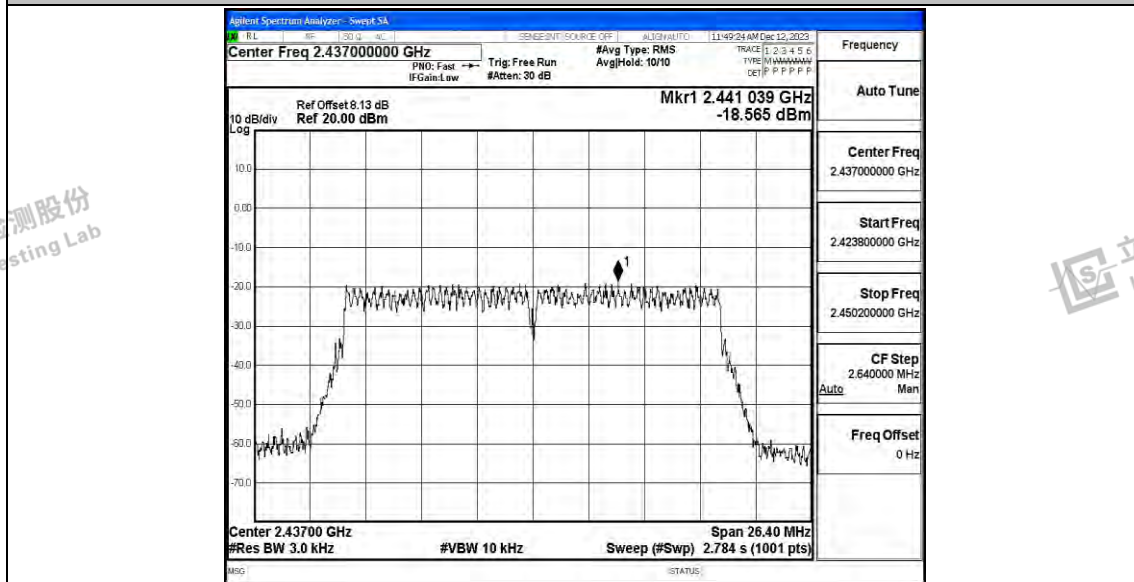


11N20SISO_Ant1_2412



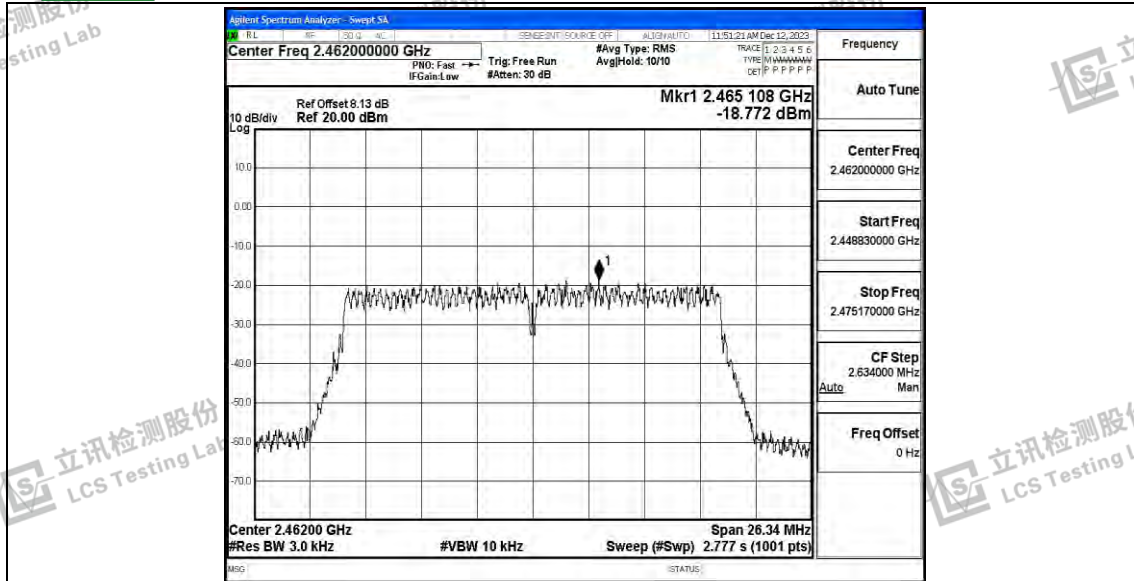


11N20SISO_Ant1_2437

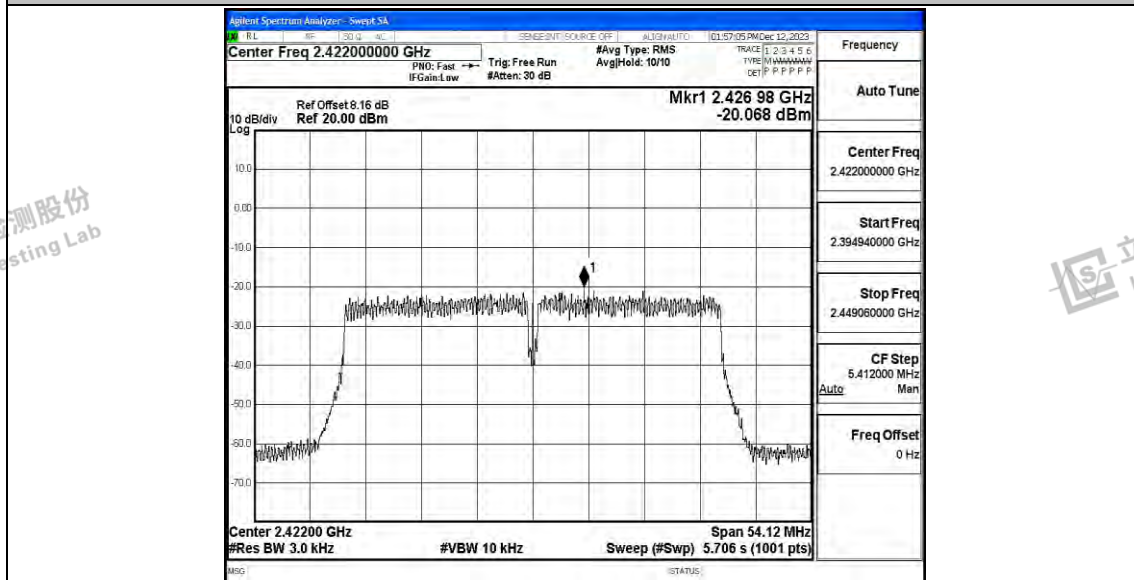


11N20SISO_Ant1_2462



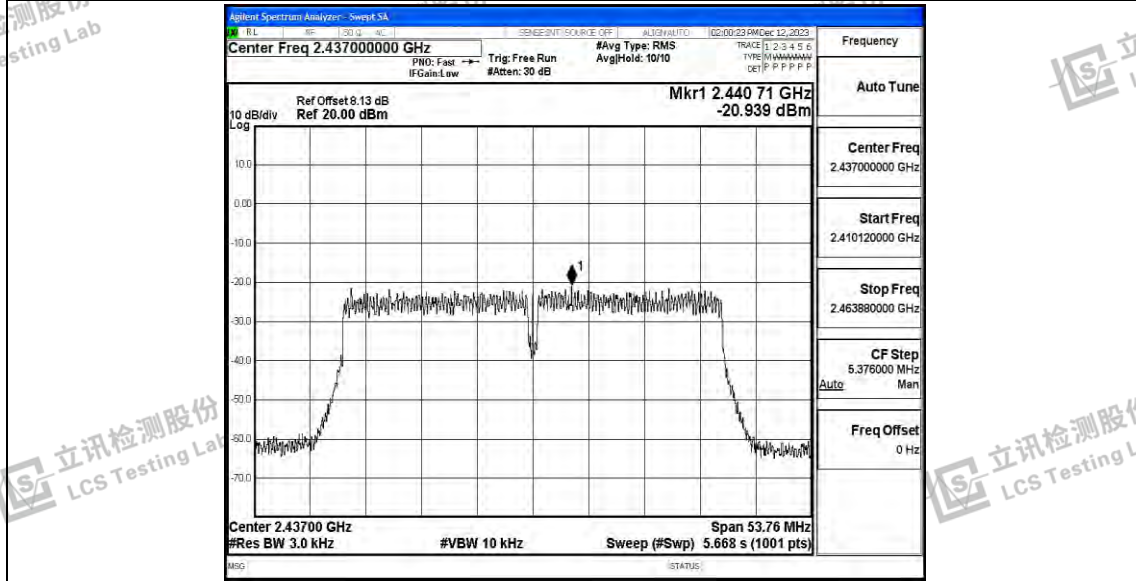


11N40SISO_Ant1_2422

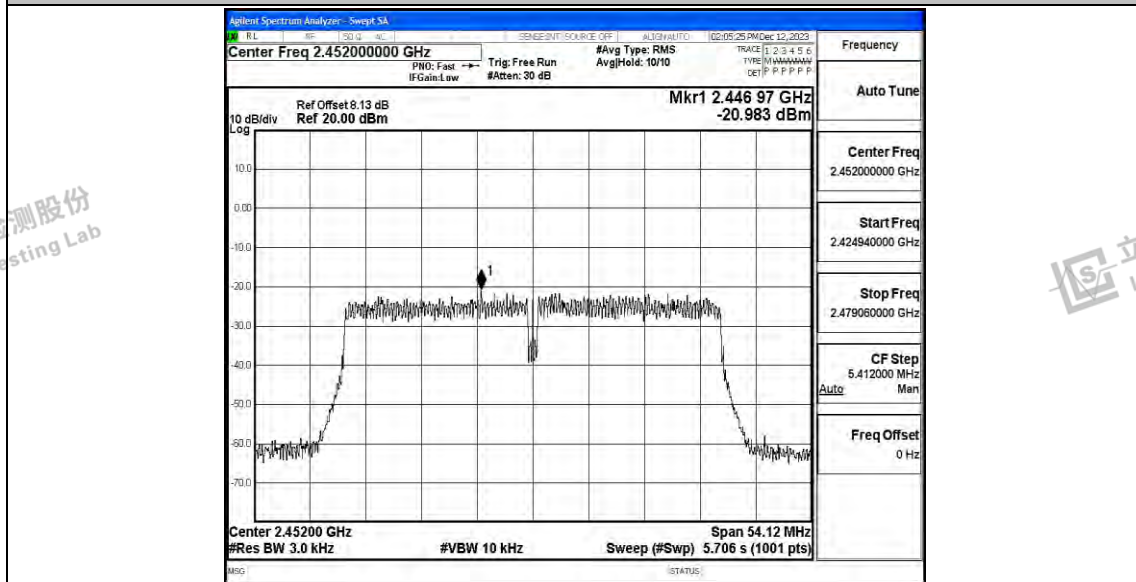


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452



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C.4 Band edge measurements

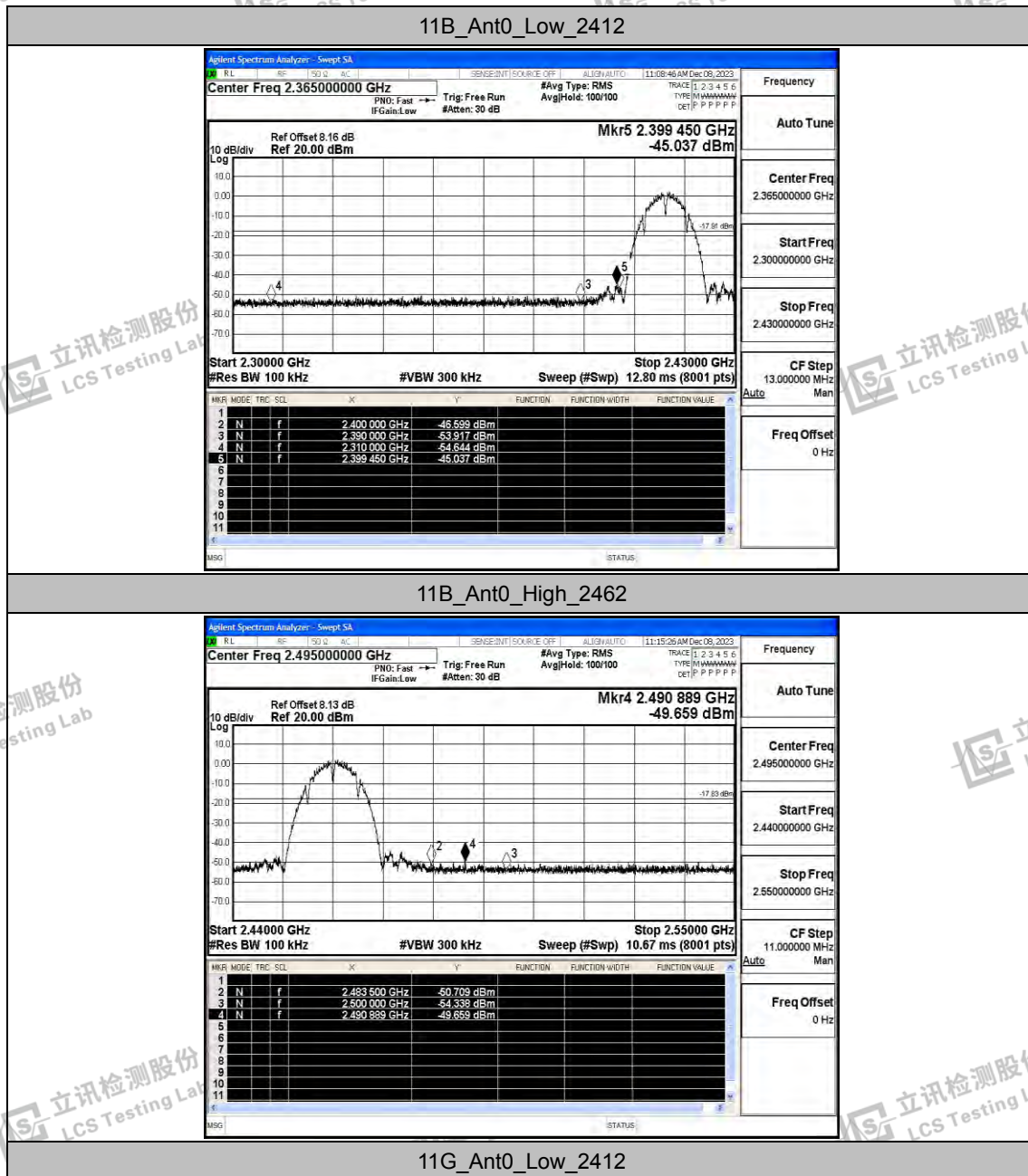
Test Result

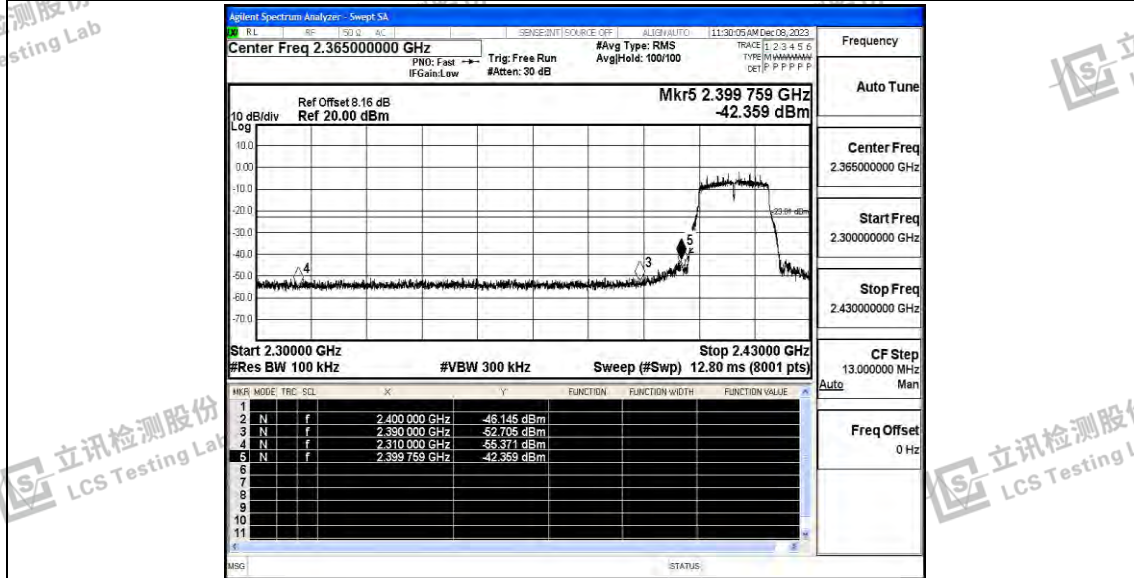
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant0	Low	2412	2.09	-45.04	≤-17.91	PASS
		High	2462	2.17	-49.66	≤-17.83	PASS
11G	Ant0	Low	2412	-3.01	-42.36	≤-23.01	PASS
		High	2462	-2.02	-48.99	≤-22.02	PASS
11N20SISO	Ant0	Low	2412	-4.11	-43.87	≤-24.11	PASS
		High	2462	-3.20	-50.16	≤-23.2	PASS
11N40SISO	Ant0	Low	2422	-4.88	-46.7	≤-24.88	PASS
		High	2452	-6.86	-49.33	≤-26.86	PASS



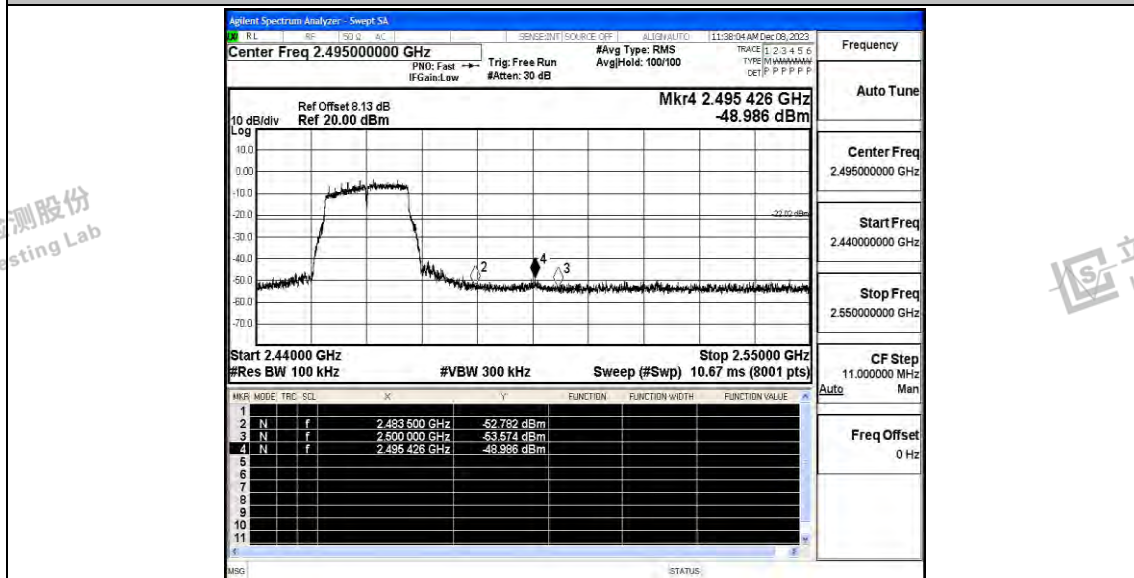


Test Graphs



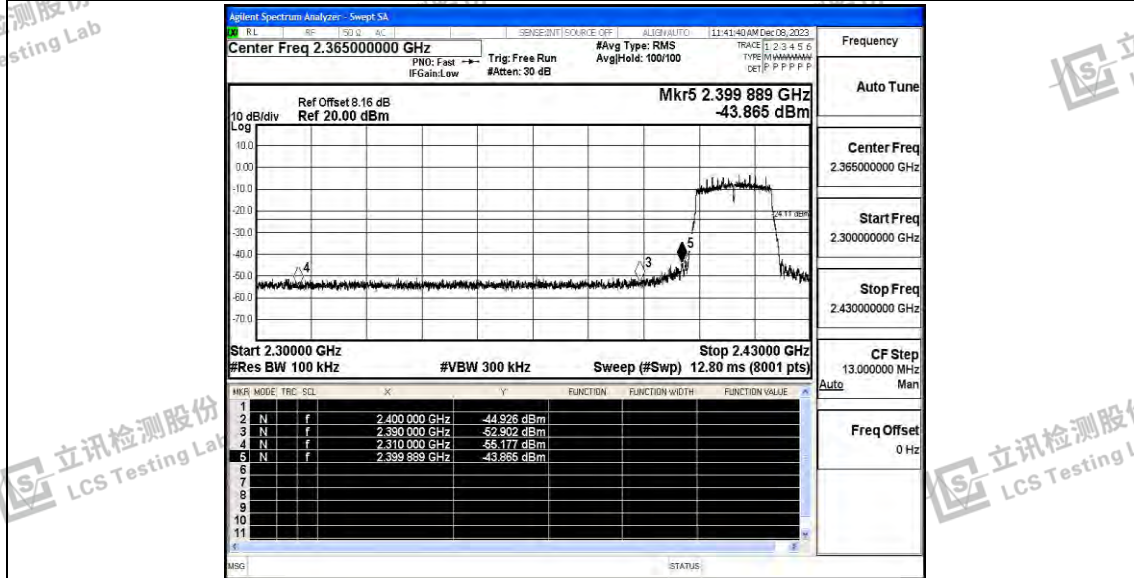


11G_Ant0_High_2462

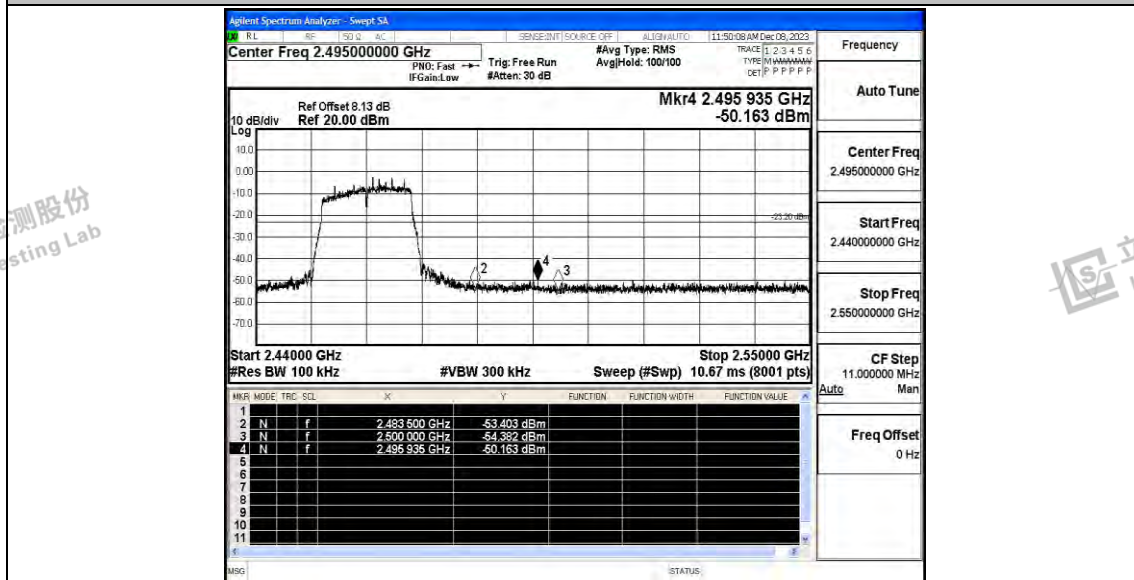


11N20SISO_Ant0_Low_2412





11N20SISO_Ant0_High_2462



11N40SISO_Ant0_Low_2422

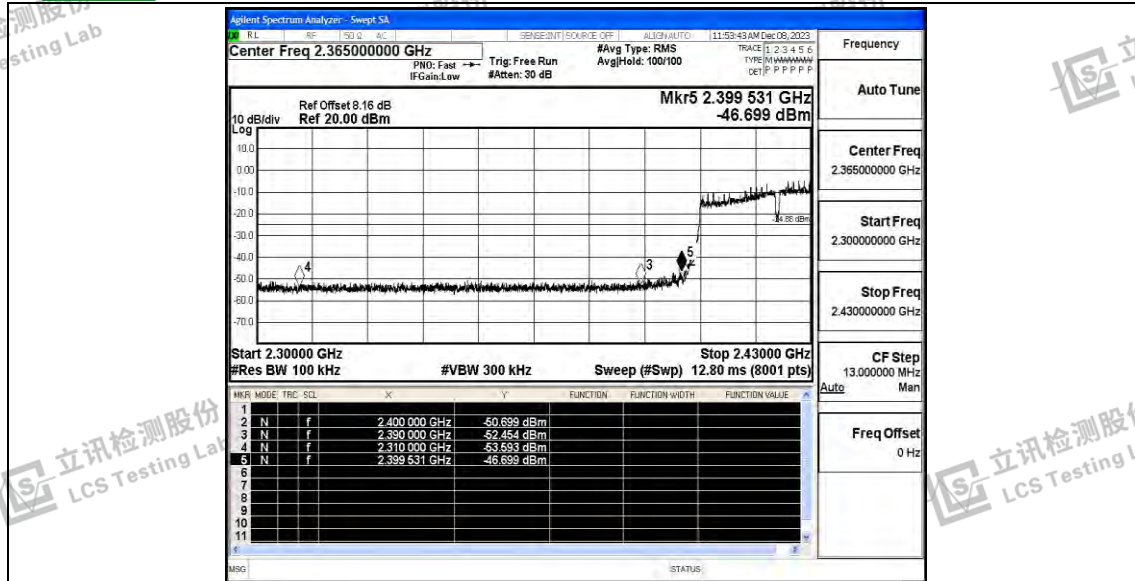


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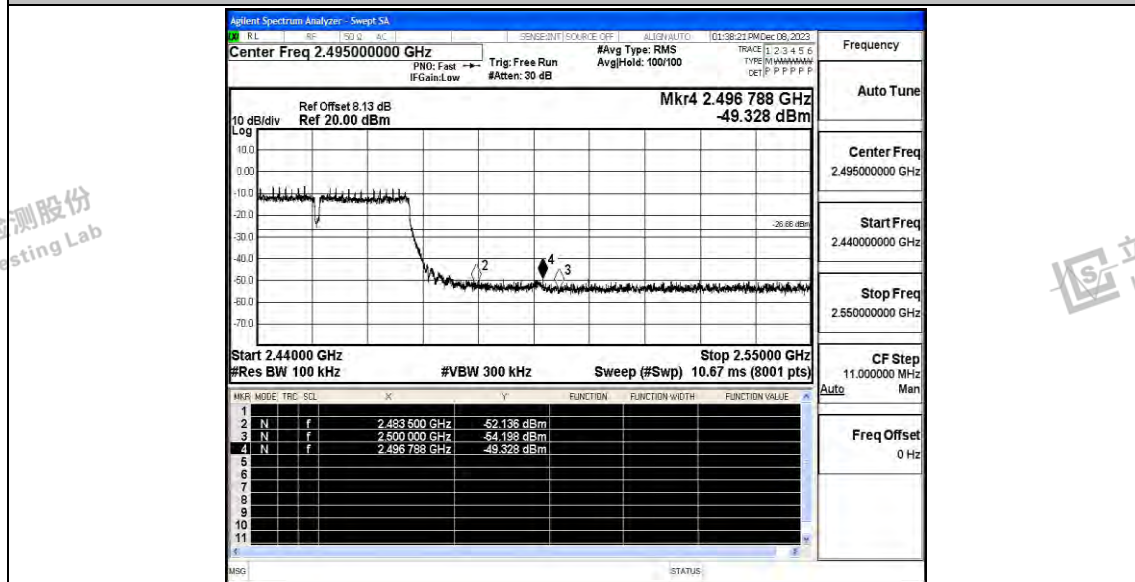
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant0_High_2452



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**Test Result**

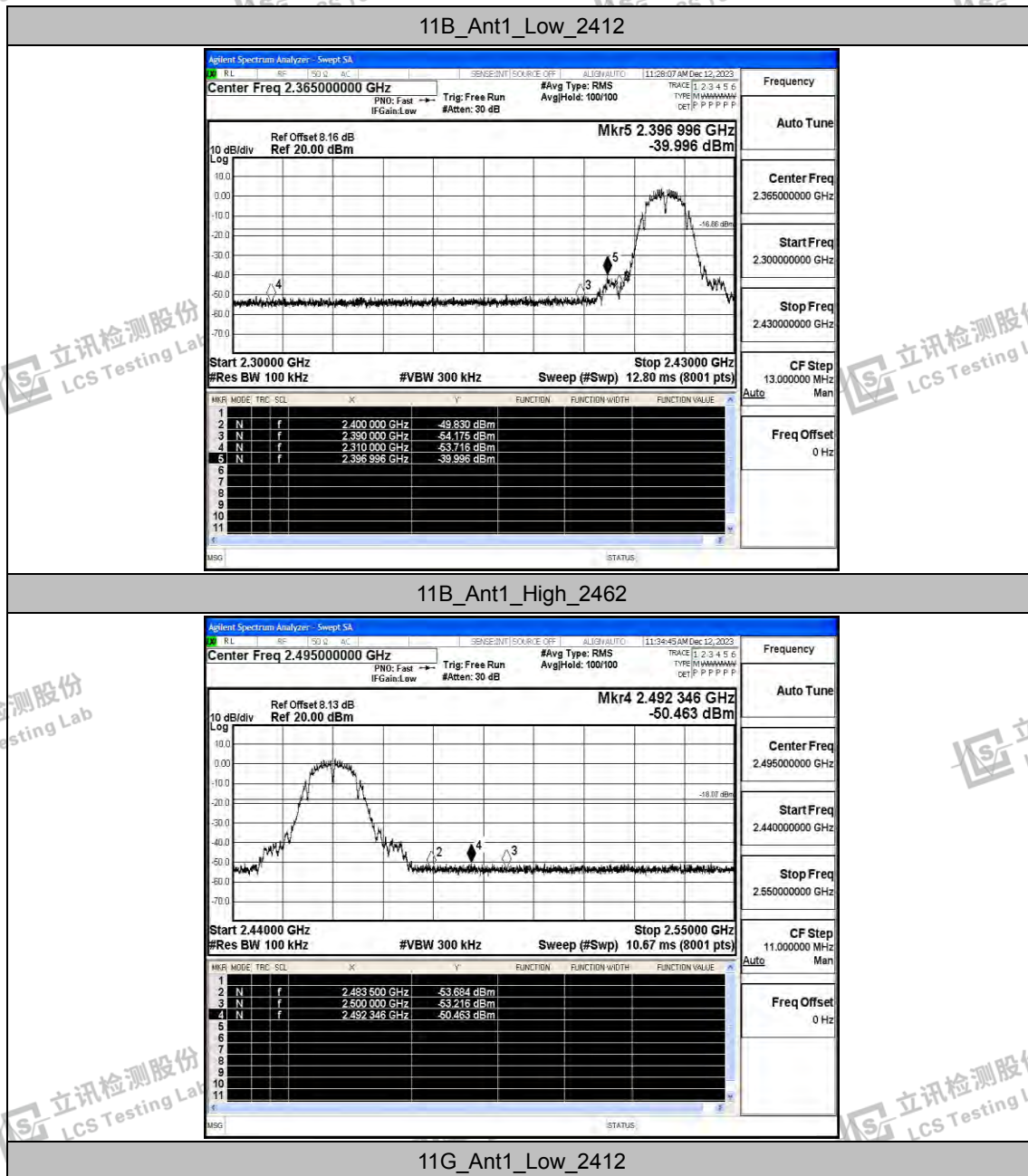
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.14	-40	≤ -16.86	PASS
		High	2462	1.93	-50.46	≤ -18.07	PASS
11G	Ant1	Low	2412	-2.64	-36.08	≤ -22.64	PASS
		High	2462	-3.89	-47.97	≤ -23.89	PASS
11N20SISO	Ant1	Low	2412	-3.55	-40.79	≤ -23.55	PASS
		High	2462	-4.79	-48.85	≤ -24.79	PASS
11N40SISO	Ant1	Low	2422	-7.01	-42.03	≤ -27.01	PASS
		High	2452	-7.38	-41.4	≤ -27.38	PASS

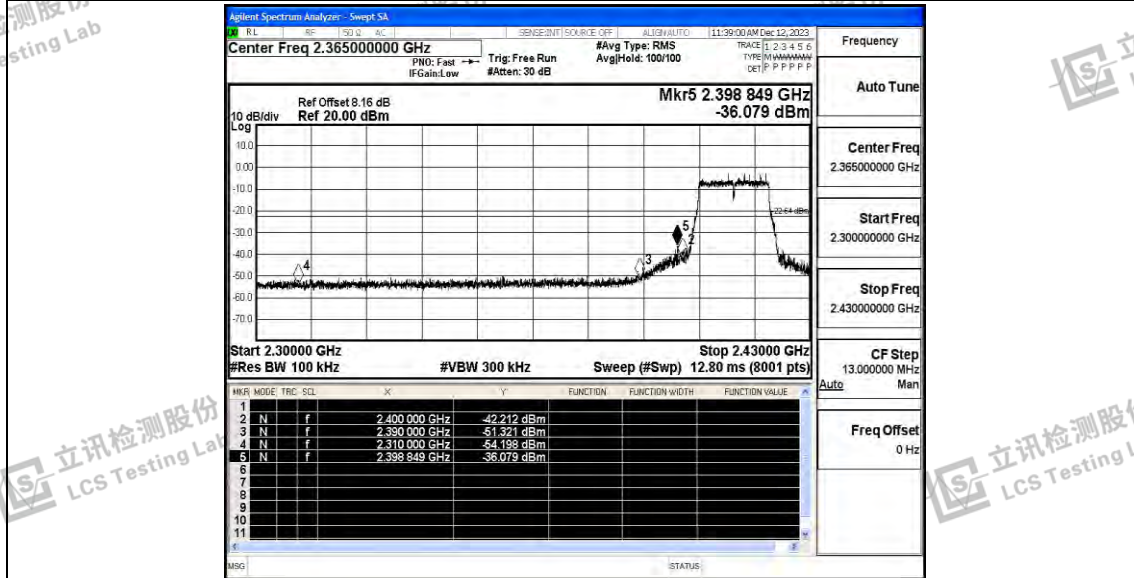


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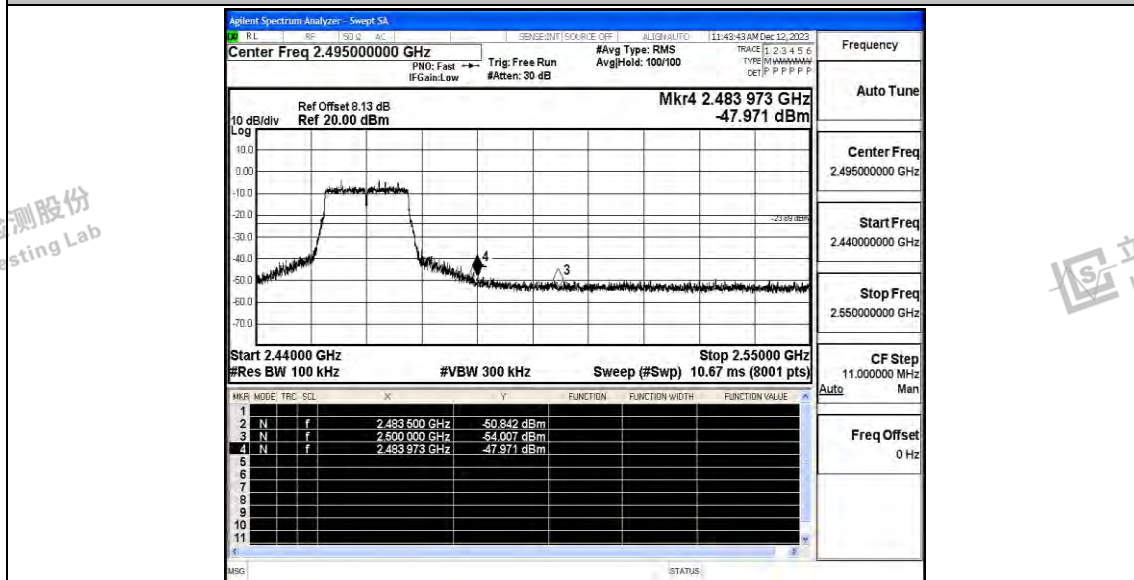


Test Graphs





11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

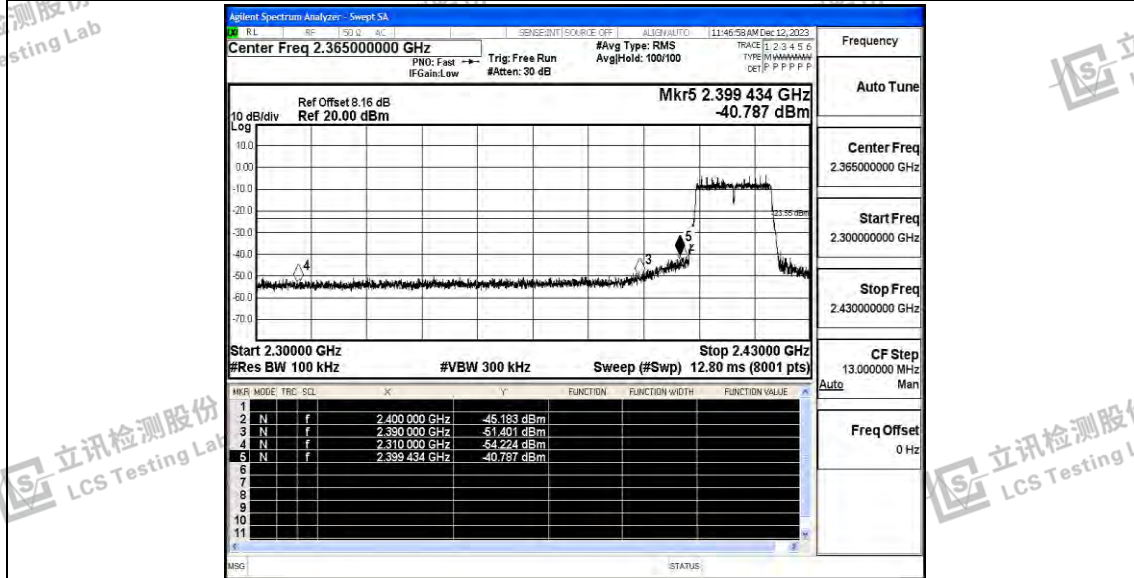


Shenzhen LCS Compliance Testing Laboratory Ltd.

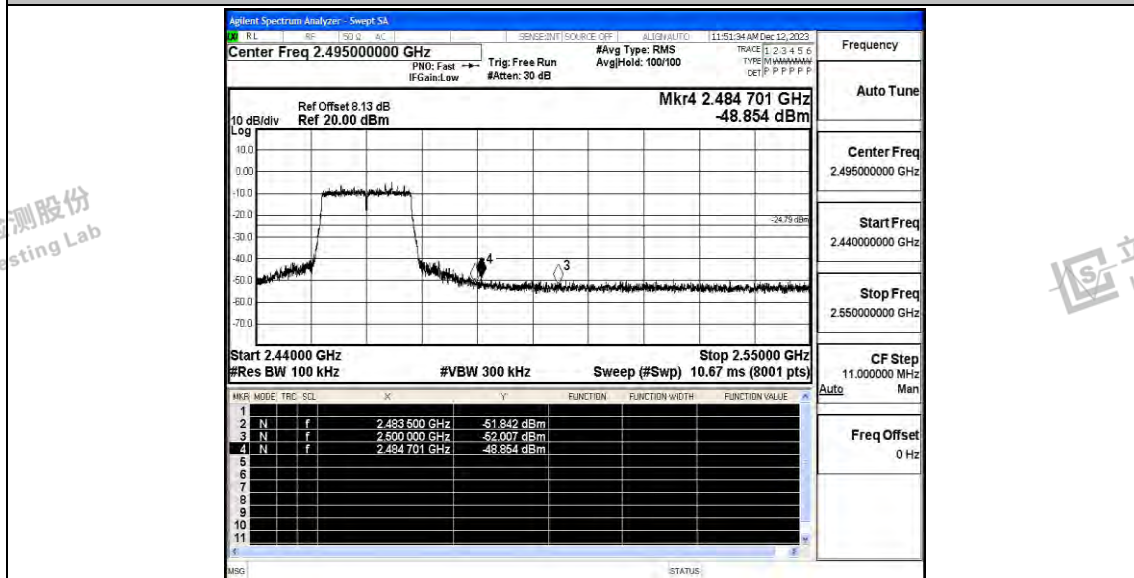
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

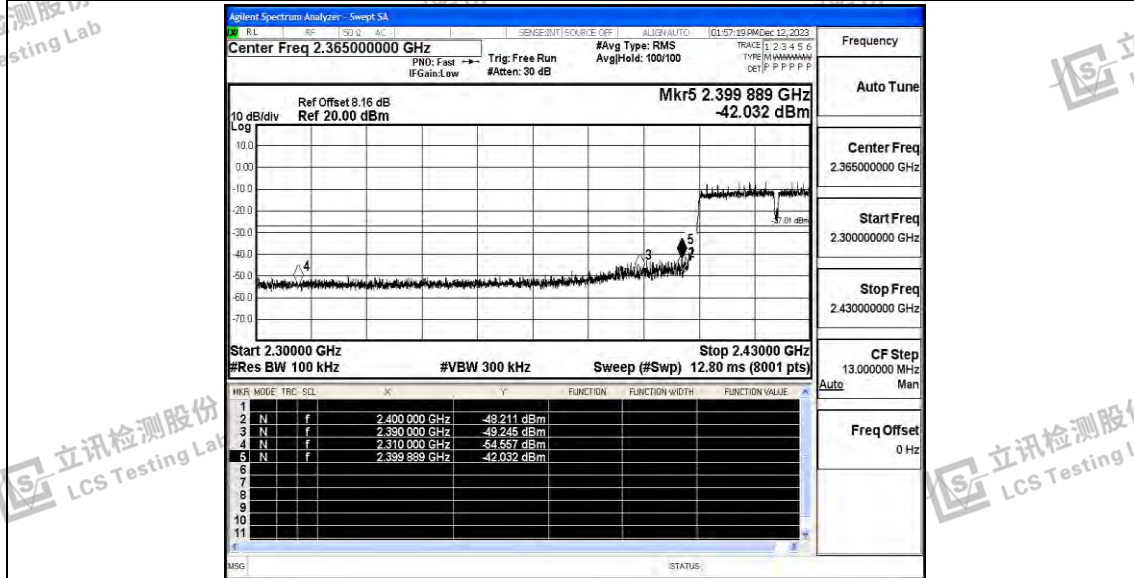


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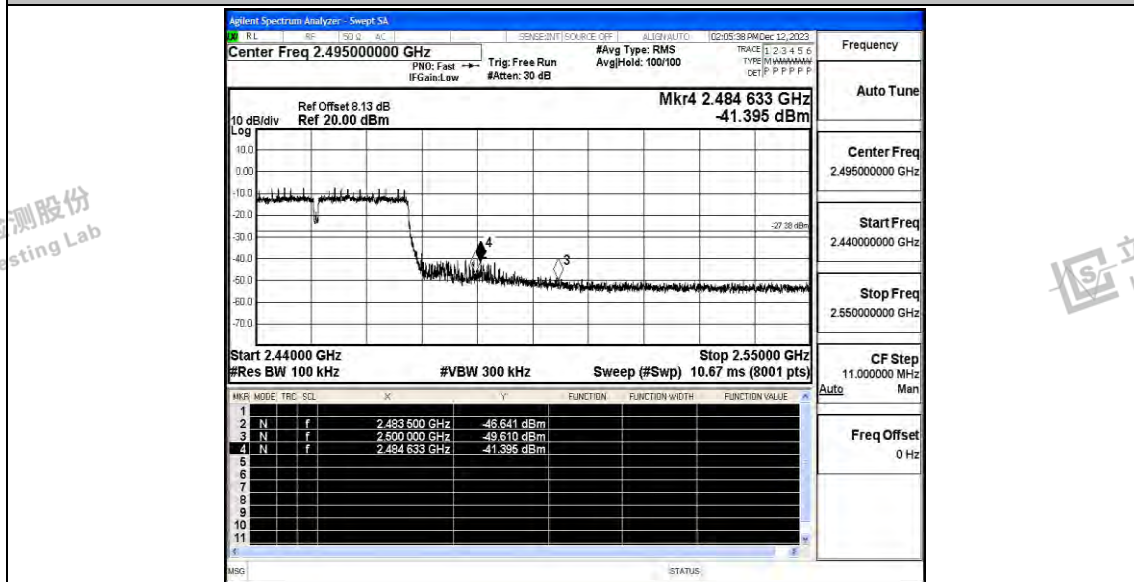
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11N40SISO_Ant1_High_2452





C.5 Conducted Spurious Emission

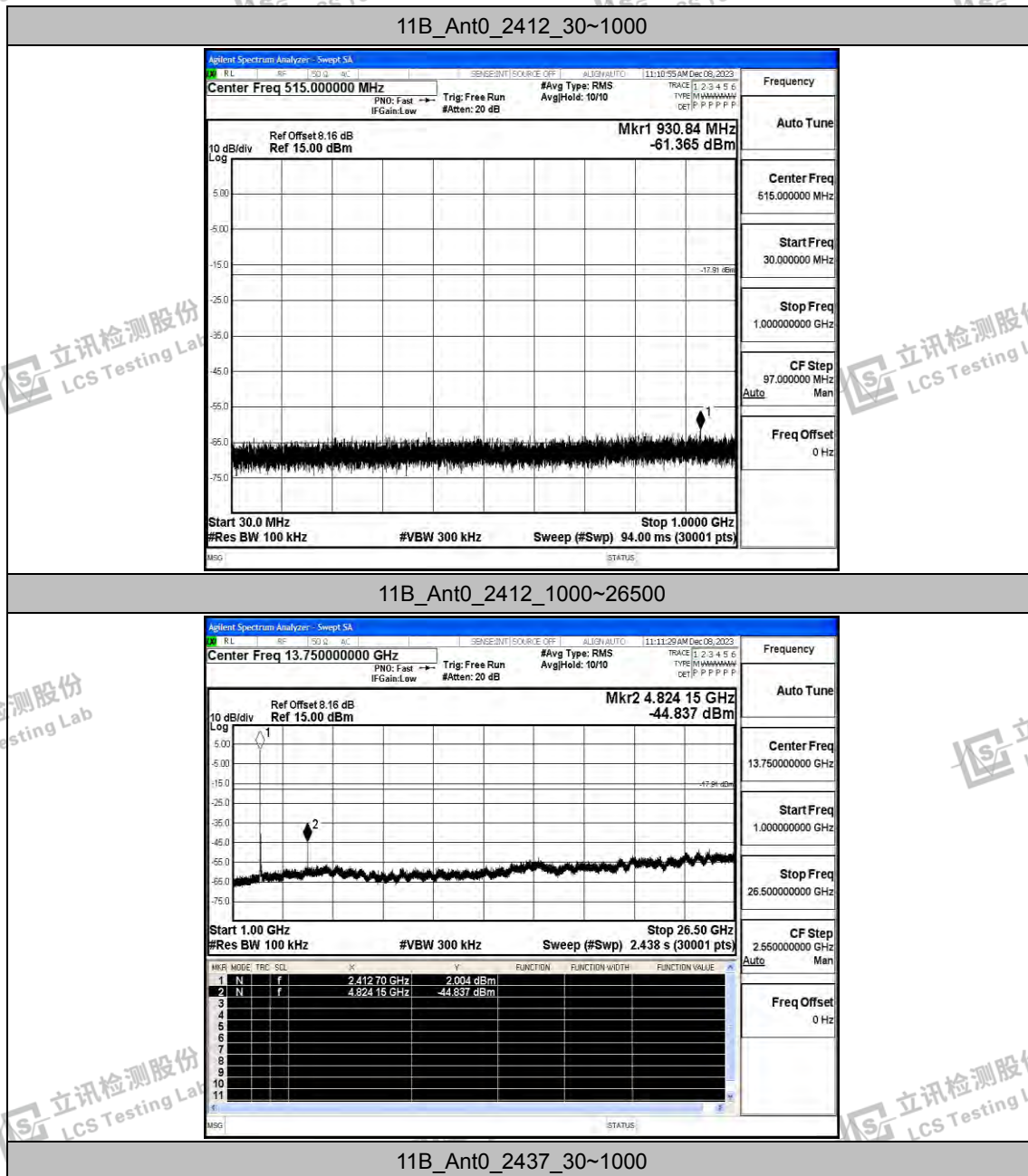
Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	30~1000	2.09	-61.37	≤-17.91	PASS
			1000~26500	2.09	-44.84	≤-17.91	PASS
		2437	30~1000	2.41	-62.37	≤-17.59	PASS
			1000~26500	2.41	-46.16	≤-17.59	PASS
		2462	30~1000	2.17	-61.33	≤-17.83	PASS
			1000~26500	2.17	-45.56	≤-17.83	PASS
11G	Ant0	2412	30~1000	-3.01	-61.72	≤-23.01	PASS
			1000~26500	-3.01	-49.15	≤-23.01	PASS
		2437	30~1000	-2.22	-61.33	≤-22.22	PASS
			1000~26500	-2.22	-48.56	≤-22.22	PASS
		2462	30~1000	-2.02	-61.33	≤-22.02	PASS
			1000~26500	-2.02	-48.87	≤-22.02	PASS
11N20SISO	Ant0	2412	30~1000	-4.11	-61.46	≤-24.11	PASS
			1000~26500	-4.11	-48.56	≤-24.11	PASS
		2437	30~1000	-3.77	-61.55	≤-23.77	PASS
			1000~26500	-3.77	-48.66	≤-23.77	PASS
		2462	30~1000	-3.20	-61.79	≤-23.2	PASS
			1000~26500	-3.20	-48.51	≤-23.2	PASS
11N40SISO	Ant0	2422	30~1000	-4.88	-61.68	≤-24.88	PASS
			1000~26500	-4.88	-49.22	≤-24.88	PASS
		2437	30~1000	-4.52	-61.87	≤-24.52	PASS
			1000~26500	-4.52	-48.37	≤-24.52	PASS
		2452	30~1000	-6.86	-62.05	≤-26.86	PASS
			1000~26500	-6.86	-48.49	≤-26.86	PASS





Test Graphs

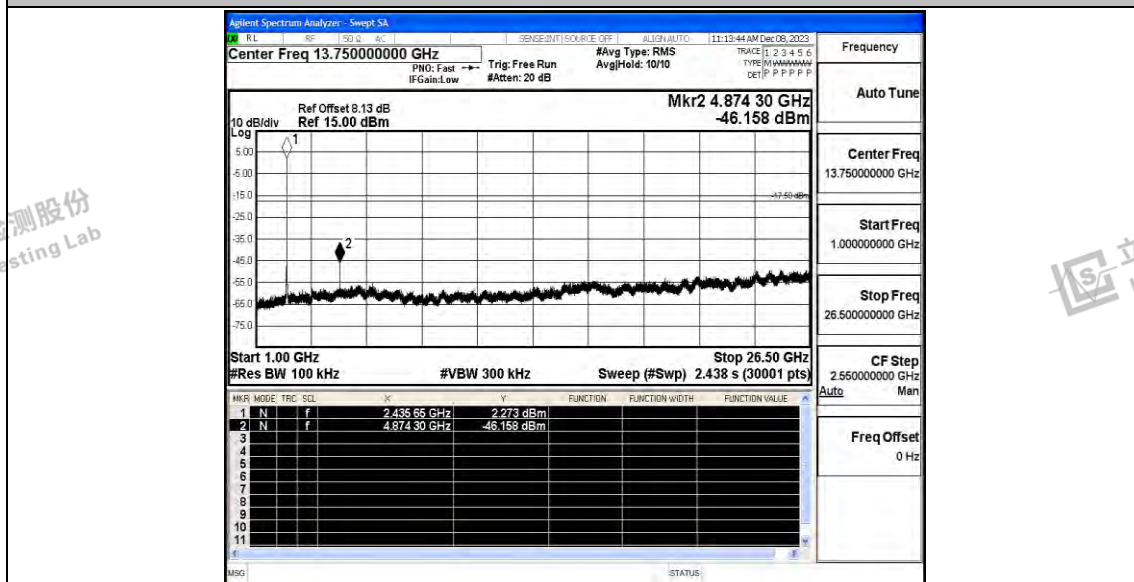
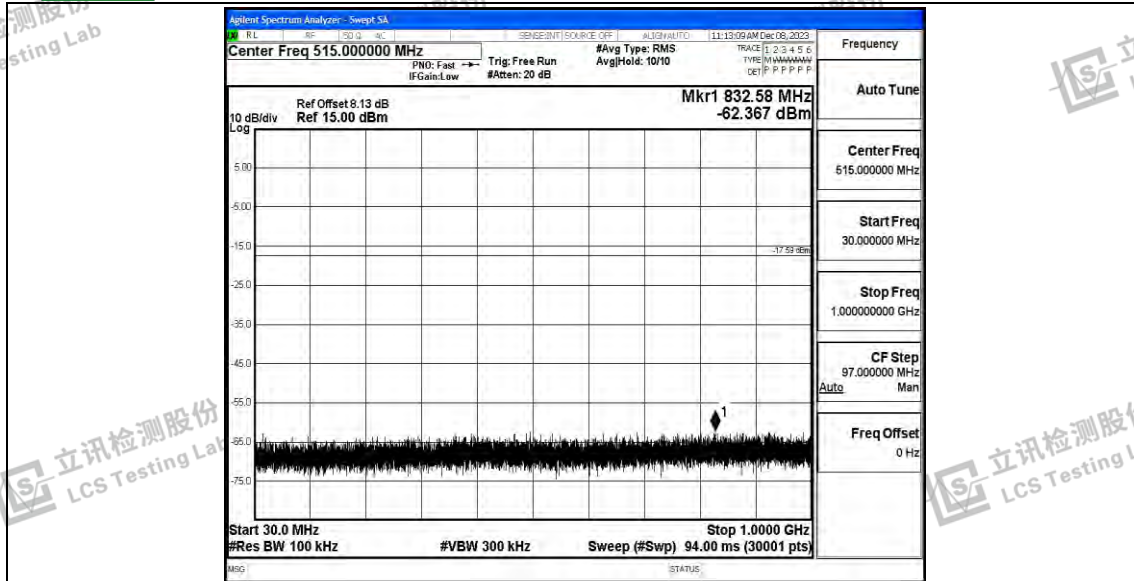


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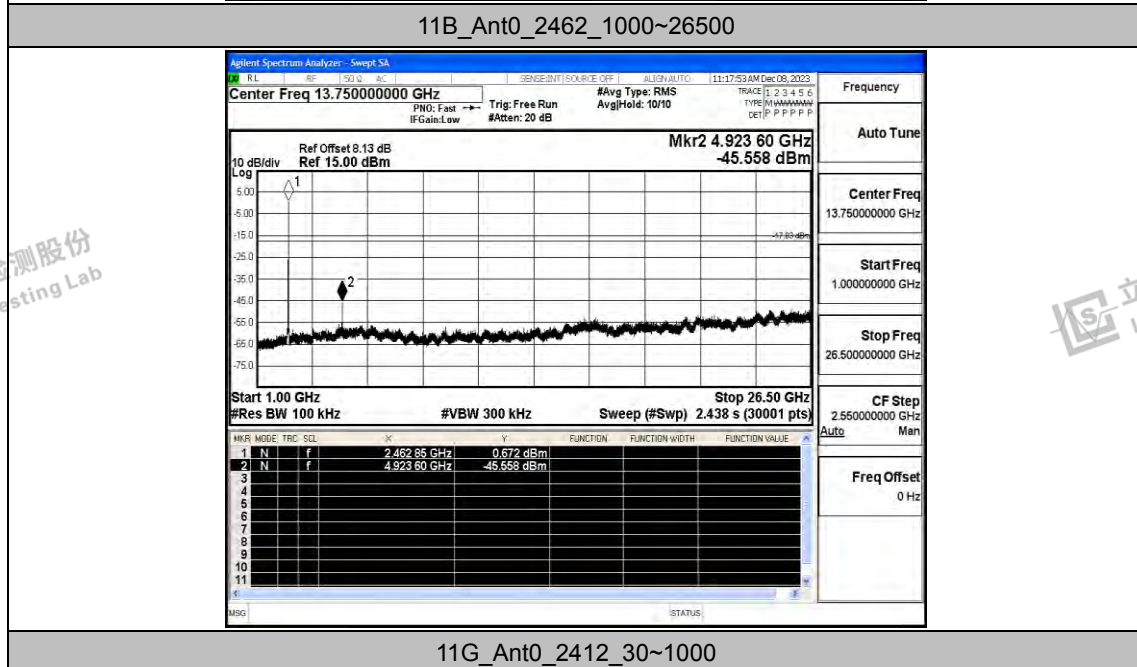
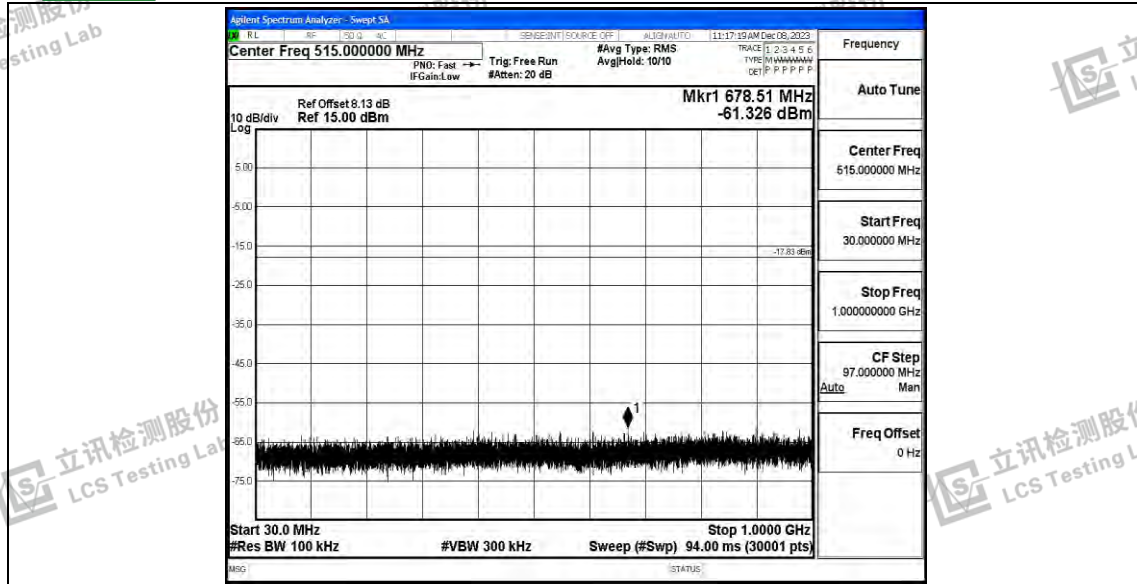


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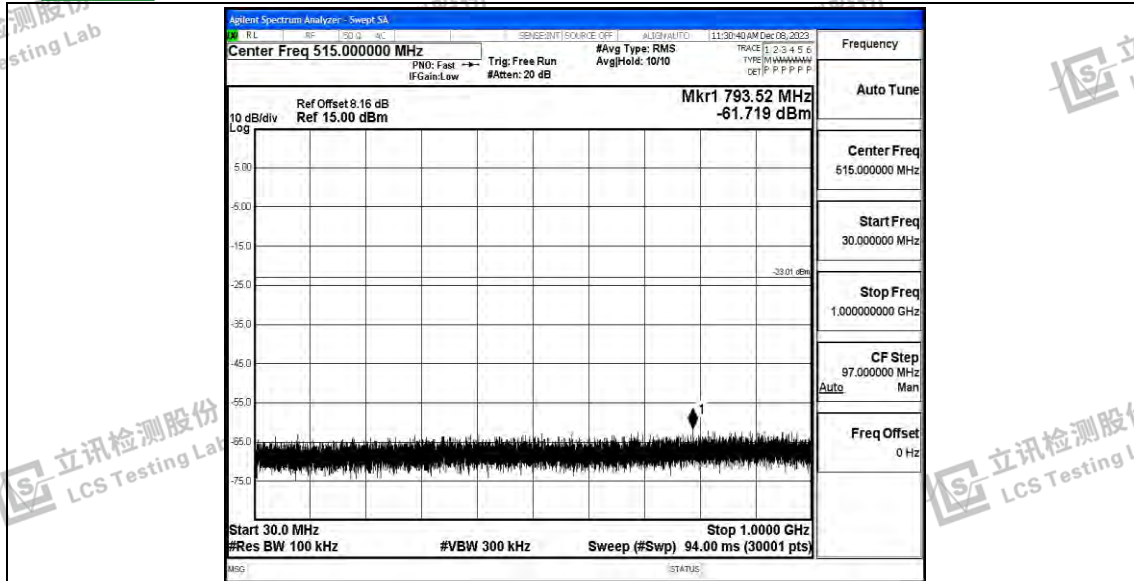


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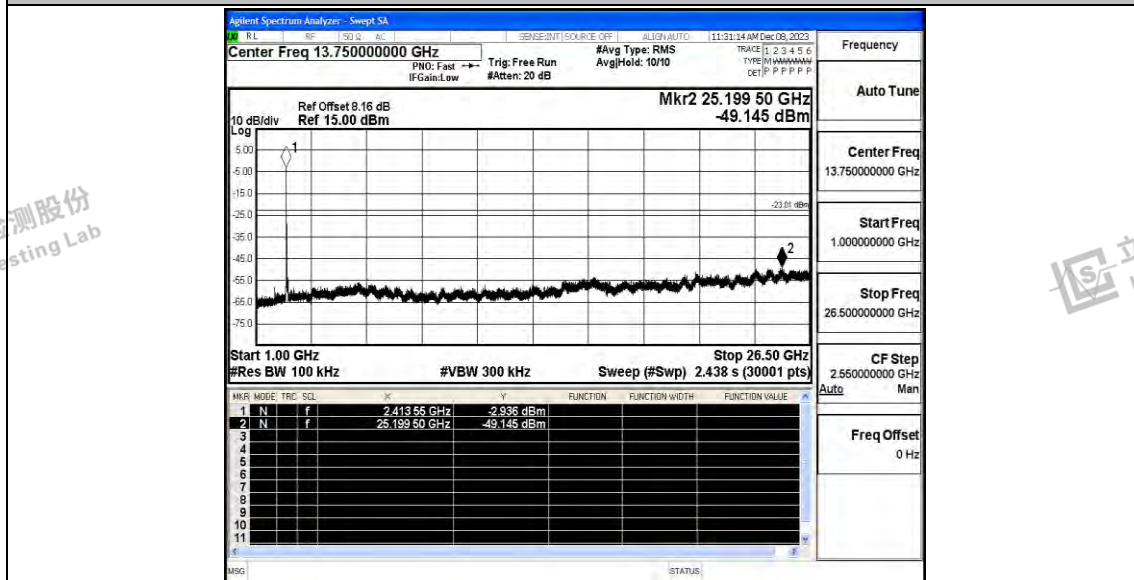
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11G_Ant0_2412_1000~26500



11G_Ant0_2437_30~1000

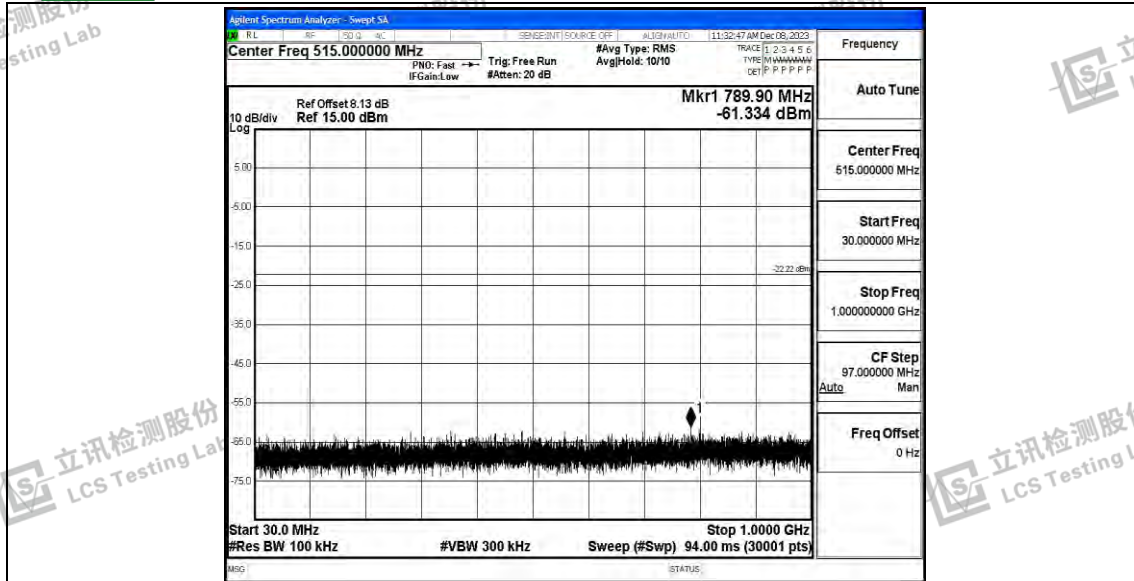


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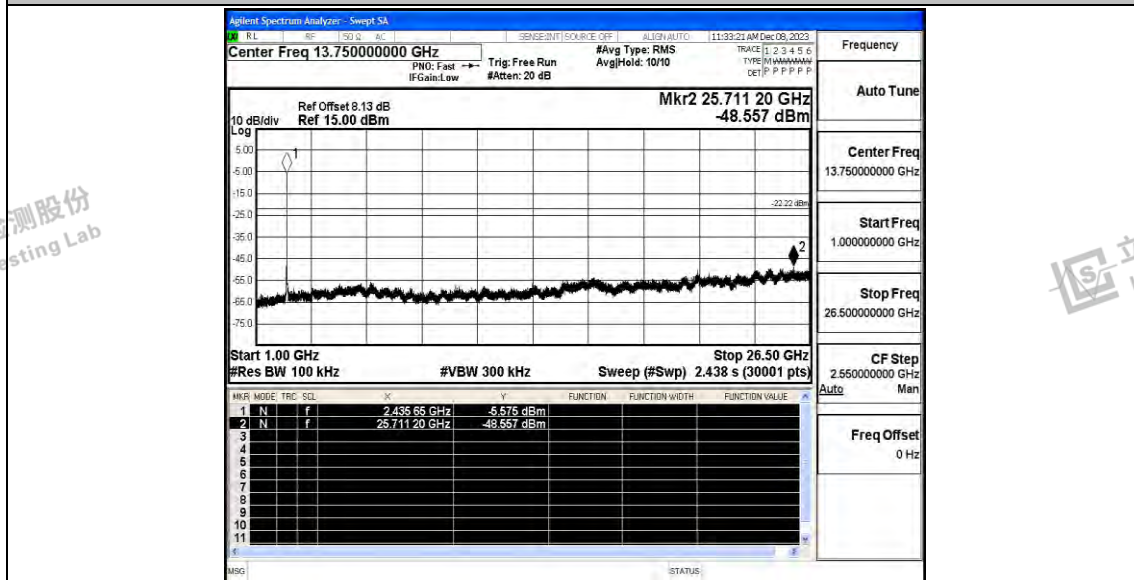
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11G_Ant0_2437_1000~26500



11G_Ant0_2462_30~1000

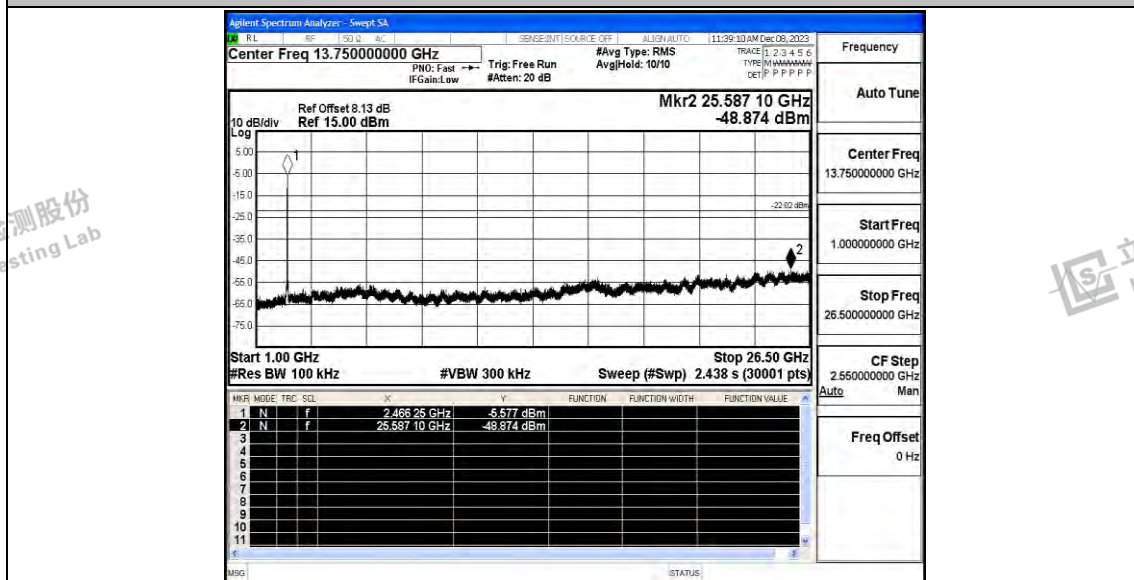
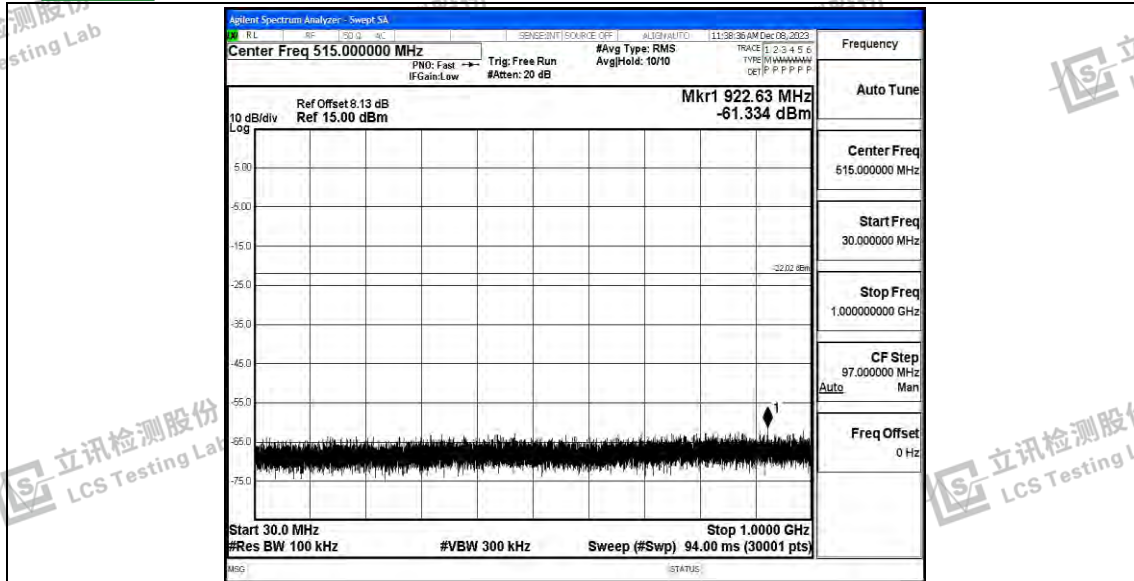


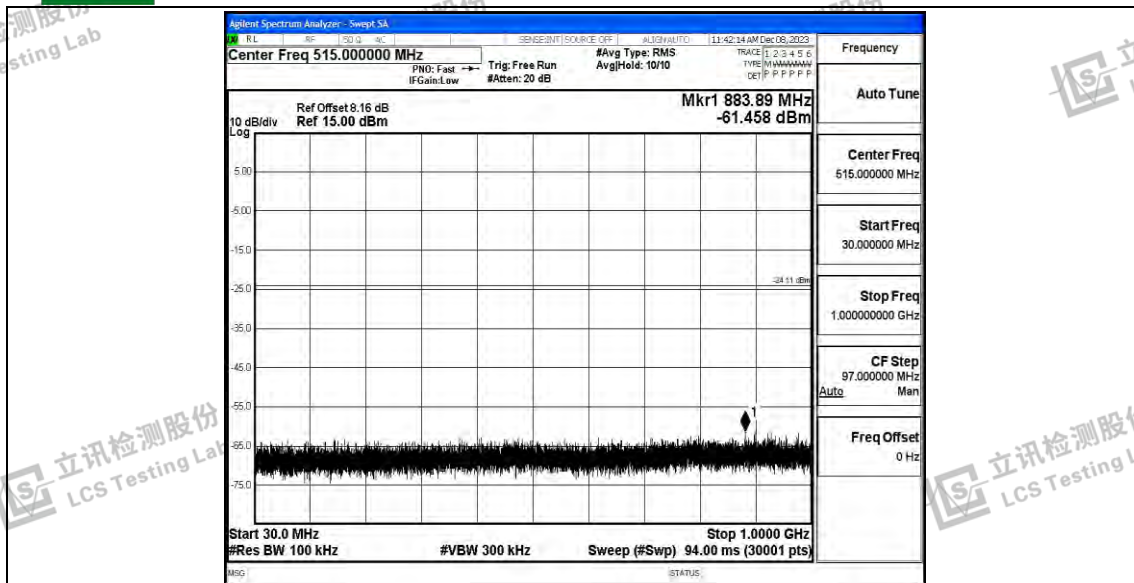
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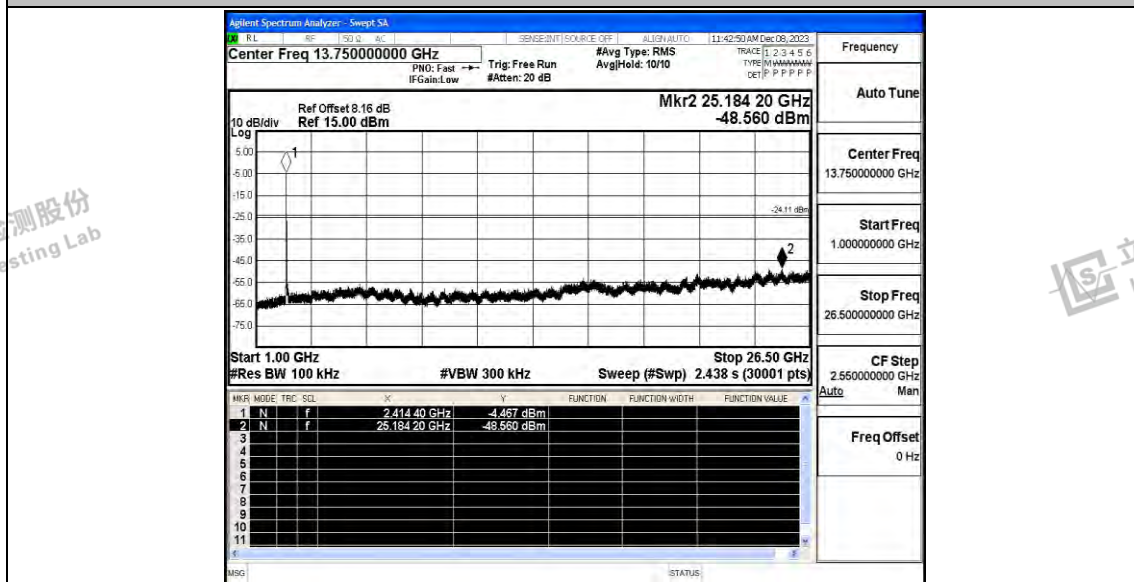
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11N20SISO_Ant0_2412_1000~26500



11N20SISO_Ant0_2437_30~1000

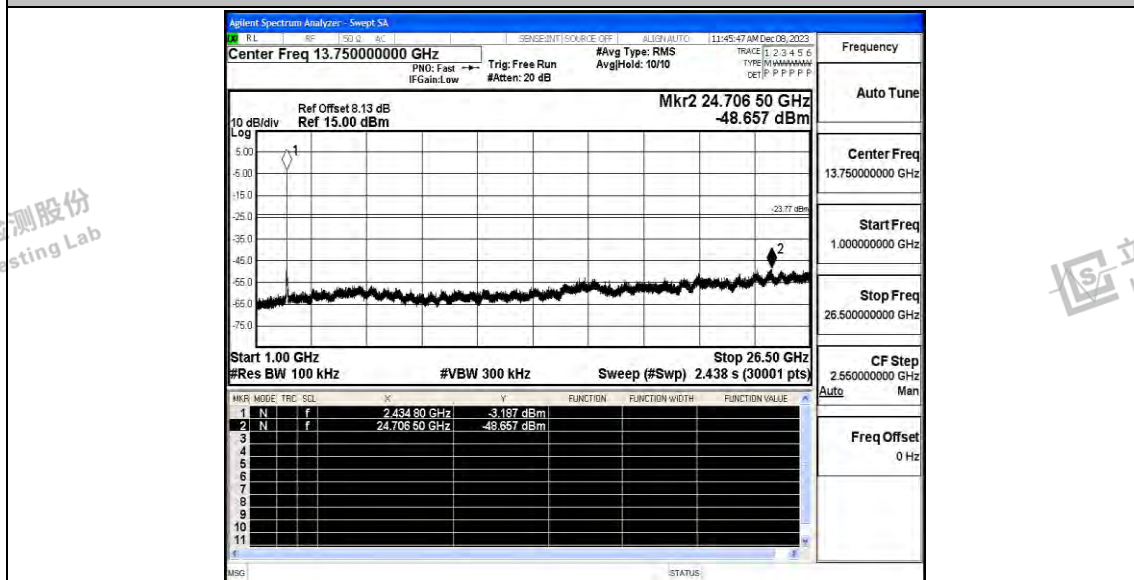
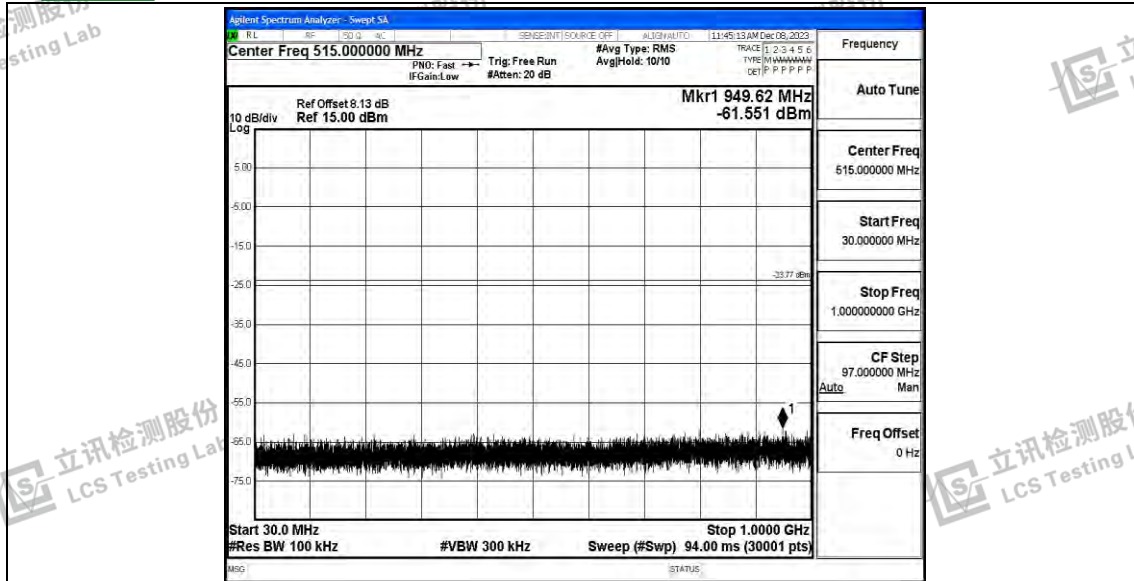


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