




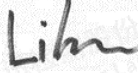
Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: LED Bulb

Test Model: 61222605

Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Nick Peng
Supervised by:	 Li Huan





B.1 DTS Bandwidth

Test Result

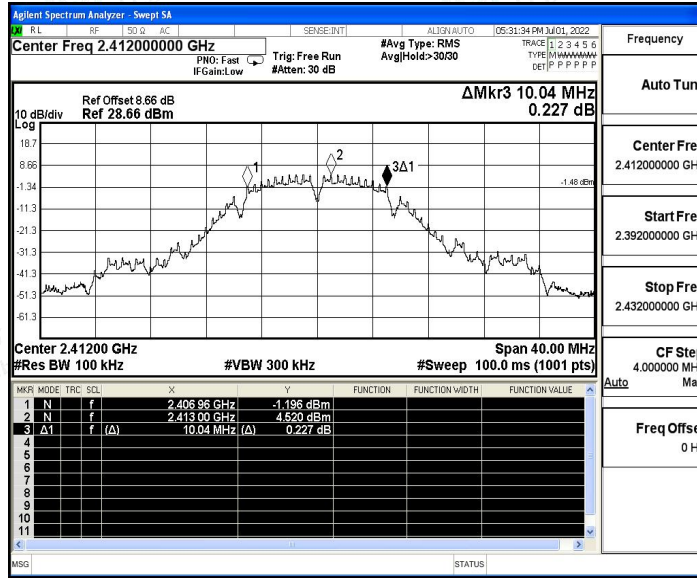
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2406.960	2417.000	0.5	PASS
		2437	10.040	2431.960	2442.000	0.5	PASS
		2462	9.080	2457.440	2466.520	0.5	PASS
11G	Ant1	2412	15.400	2404.440	2419.840	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	15.160	2454.400	2469.560	0.5	PASS



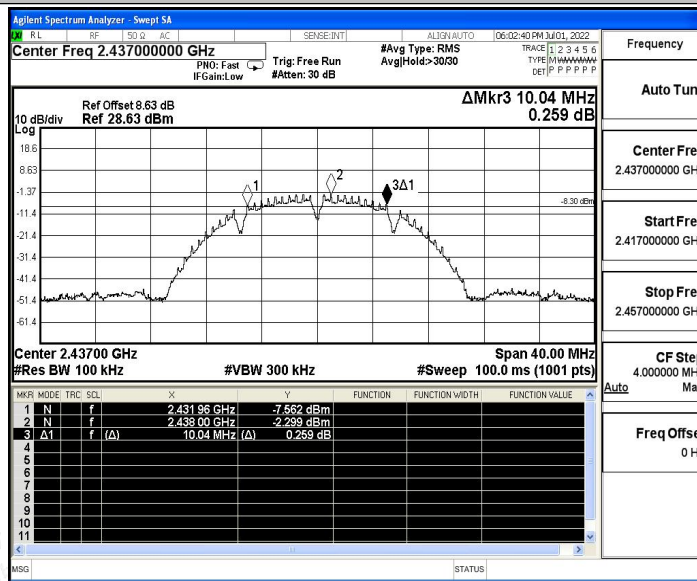


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

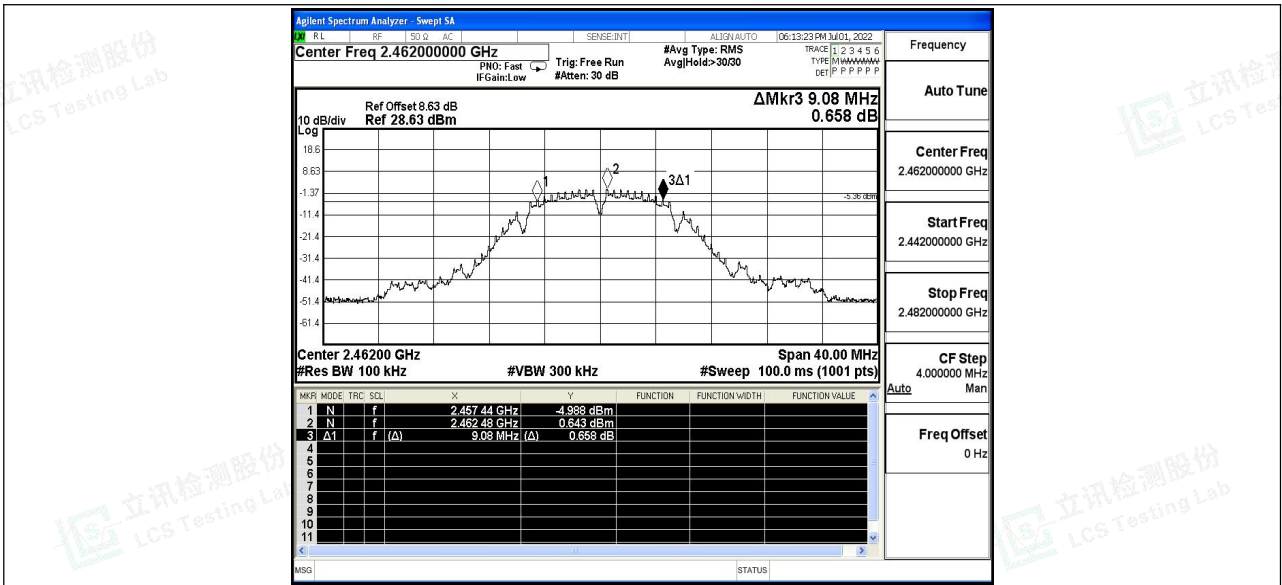


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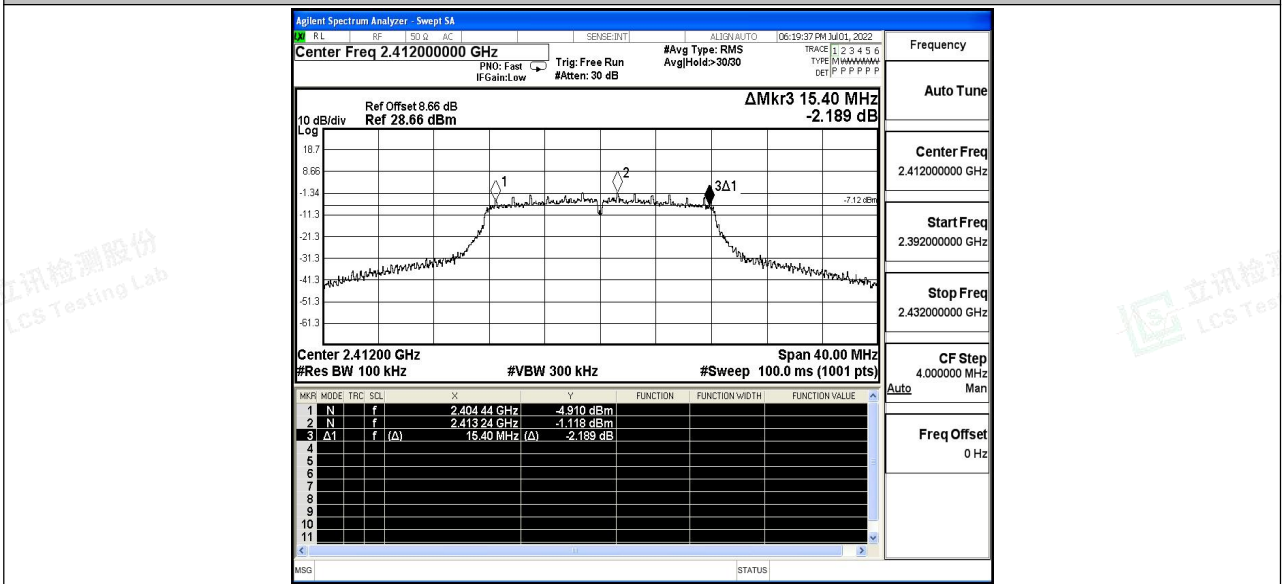
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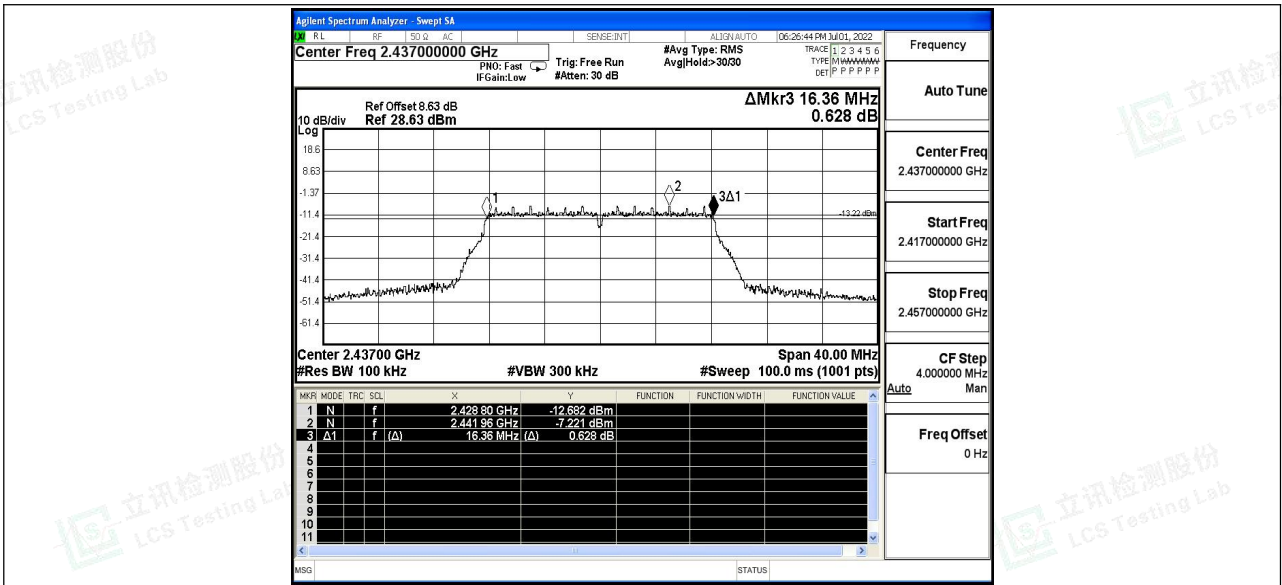


11G_Ant1_2412

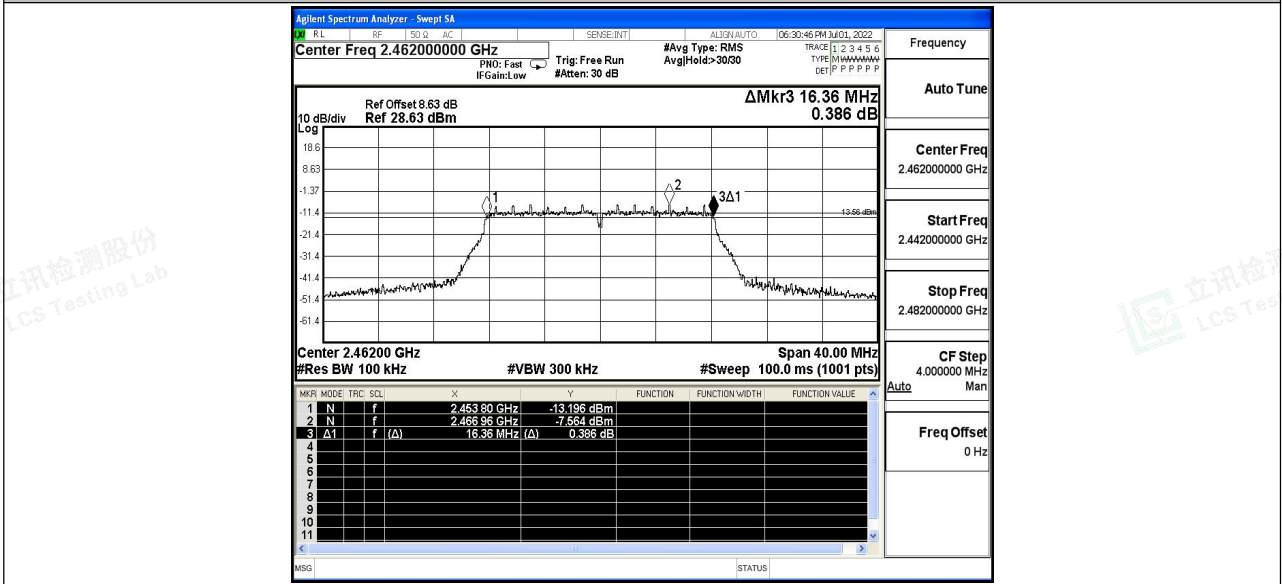


11G_Ant1_2437





11G_Ant1_2462



11N20SISO_Ant1_2412

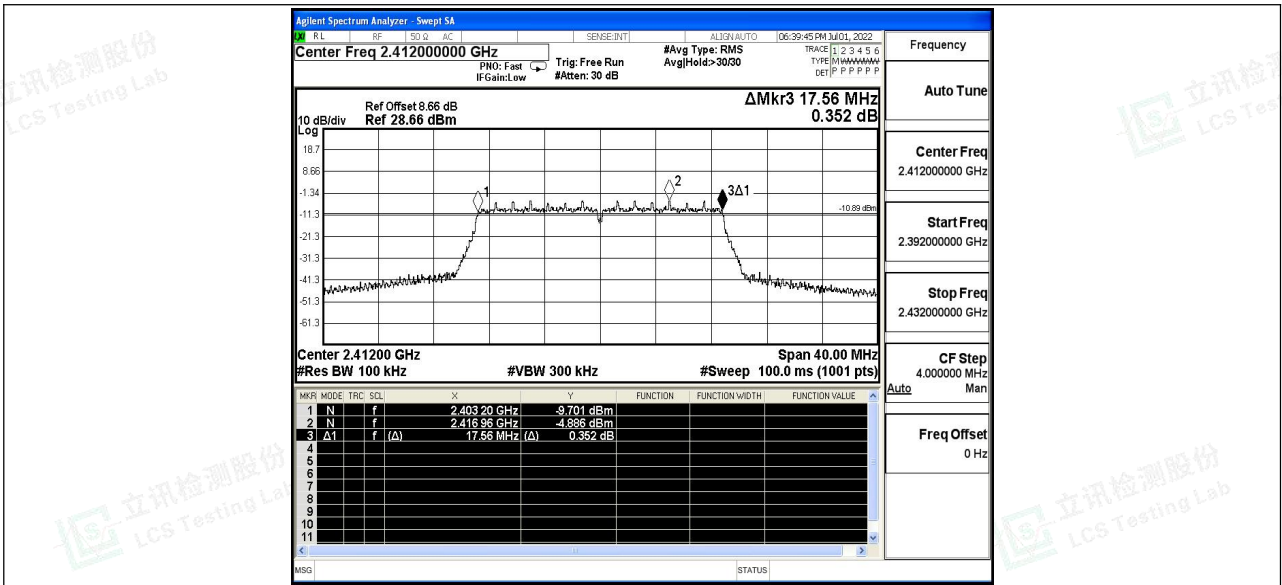


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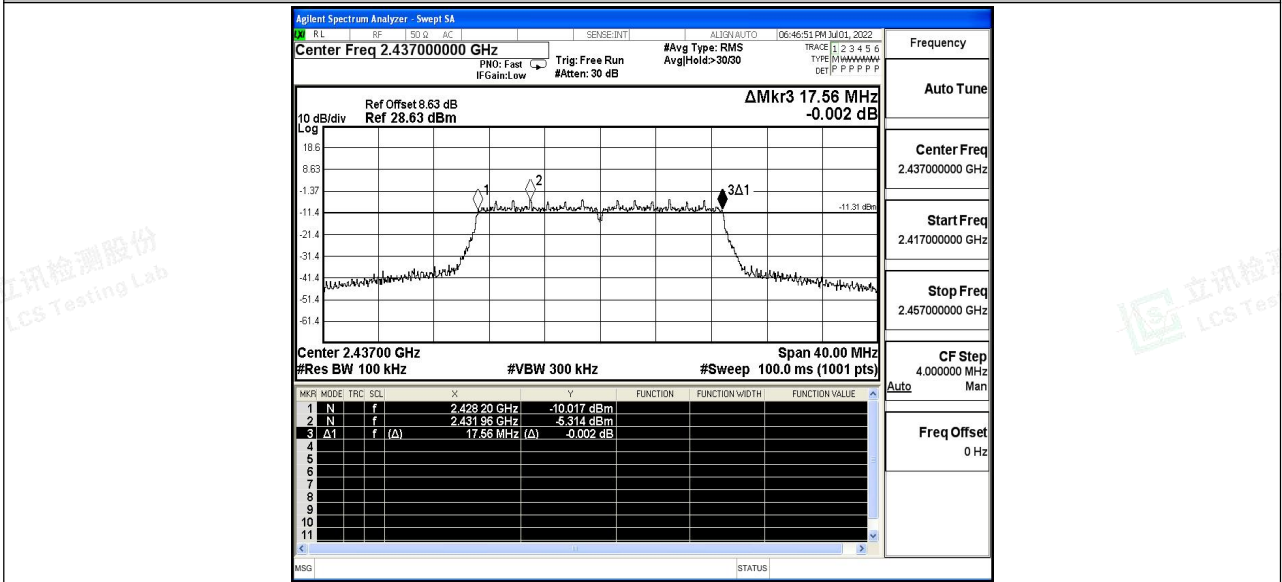
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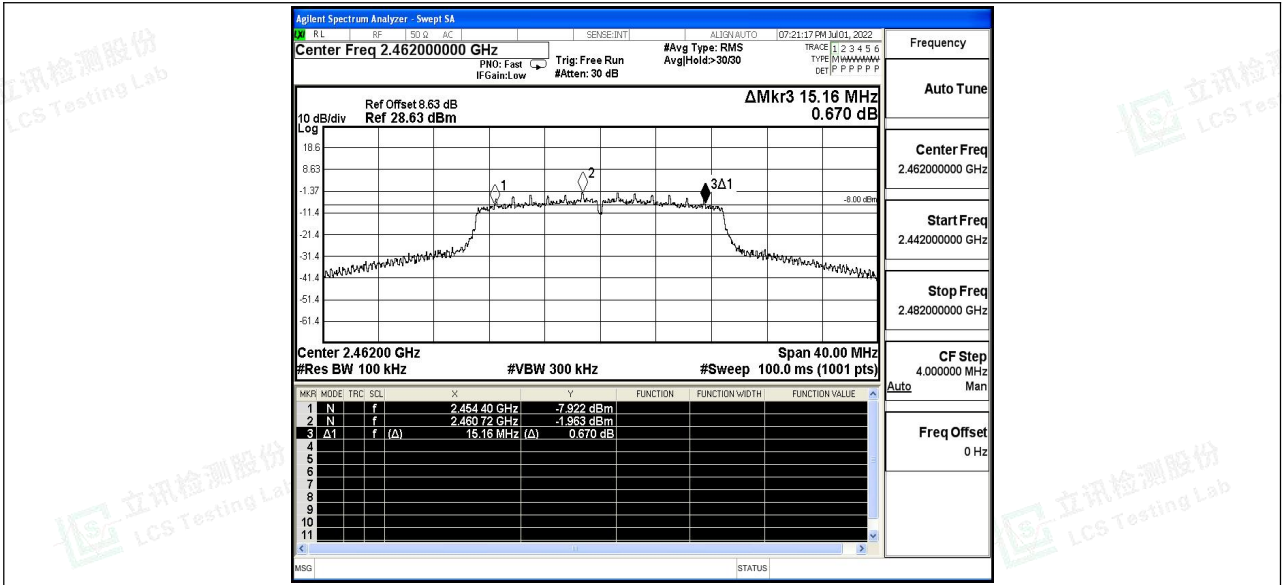


11N20SISO_Ant1_2437



11N20SISO_Ant1_2462







B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	13.16	≤30.00	PASS
		2437	13.56	≤30.00	PASS
		2462	12.37	≤30.00	PASS
11G	Ant1	2412	12.84	≤30.00	PASS
		2437	12.35	≤30.00	PASS
		2462	12.82	≤30.00	PASS
11N20SISO	Ant1	2412	12.82	≤30.00	PASS
		2437	12.04	≤30.00	PASS
		2462	11.77	≤30.00	PASS



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B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9	≤8.00	PASS
		2437	-14.67	≤8.00	PASS
		2462	-13.69	≤8.00	PASS
11G	Ant1	2412	-13.23	≤8.00	PASS
		2437	-21.2	≤8.00	PASS
		2462	-20.58	≤8.00	PASS
11N20SISO	Ant1	2412	-21.25	≤8.00	PASS
		2437	-20.9	≤8.00	PASS
		2462	-21.63	≤8.00	PASS



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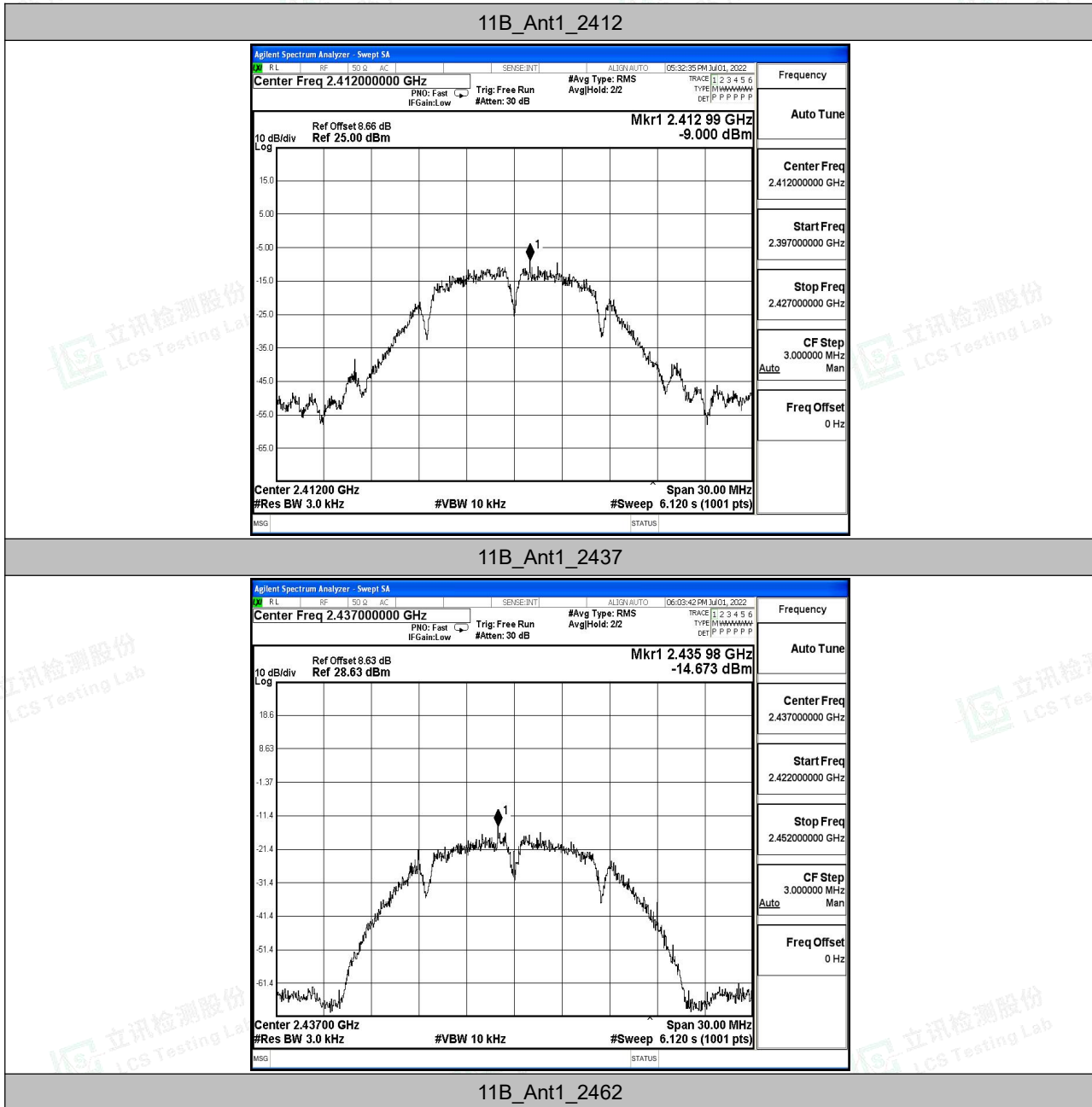
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

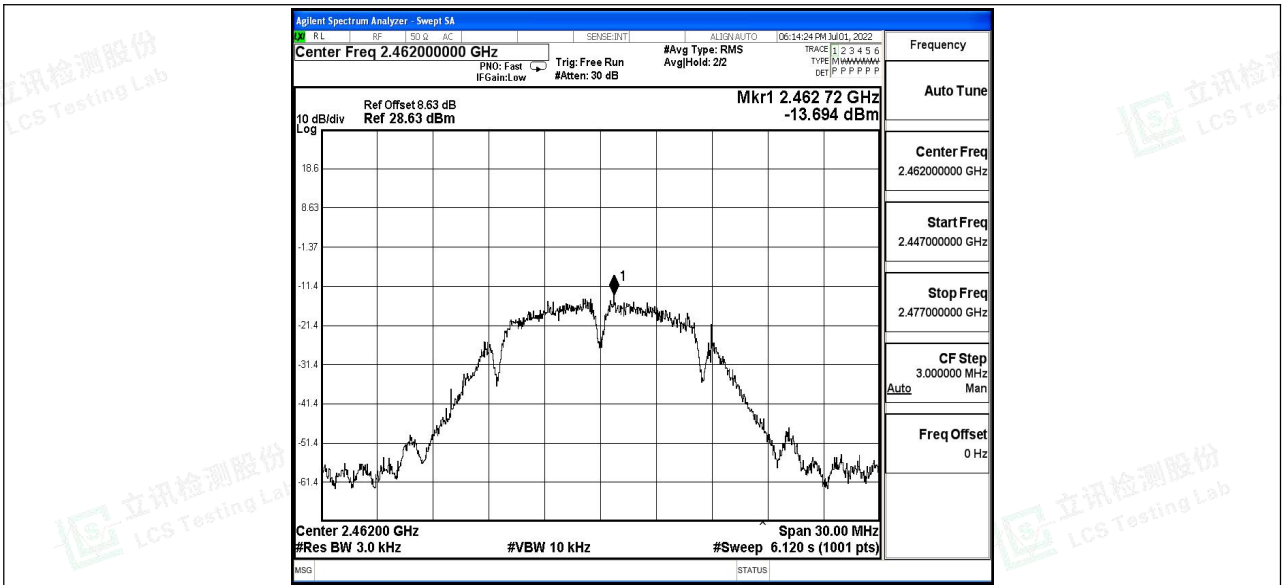
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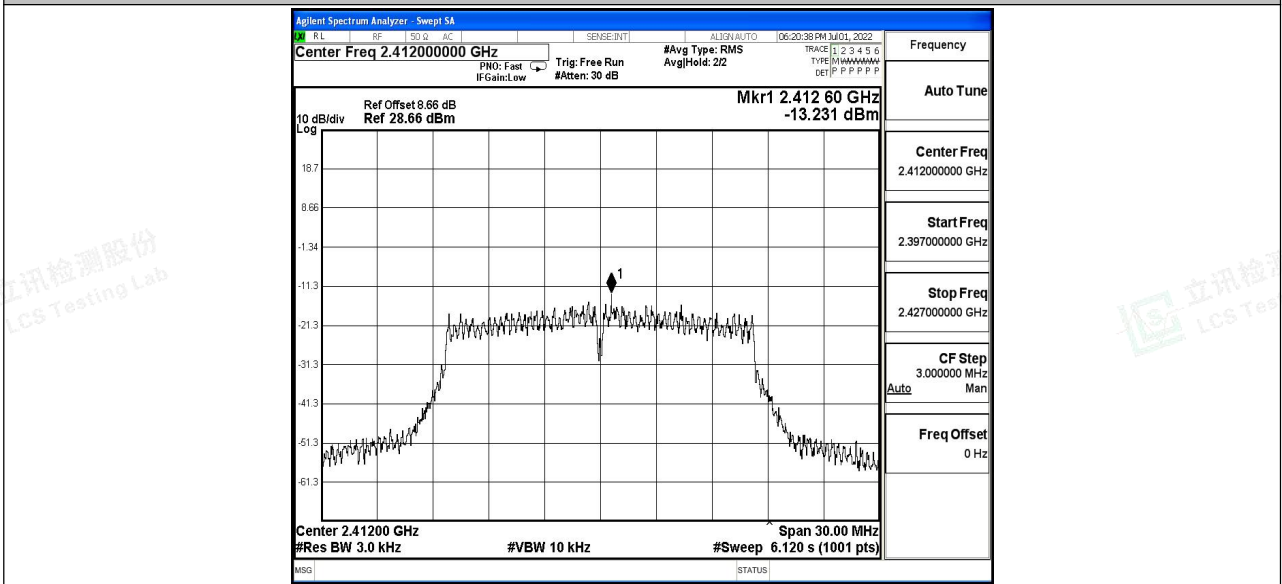


Test Graphs



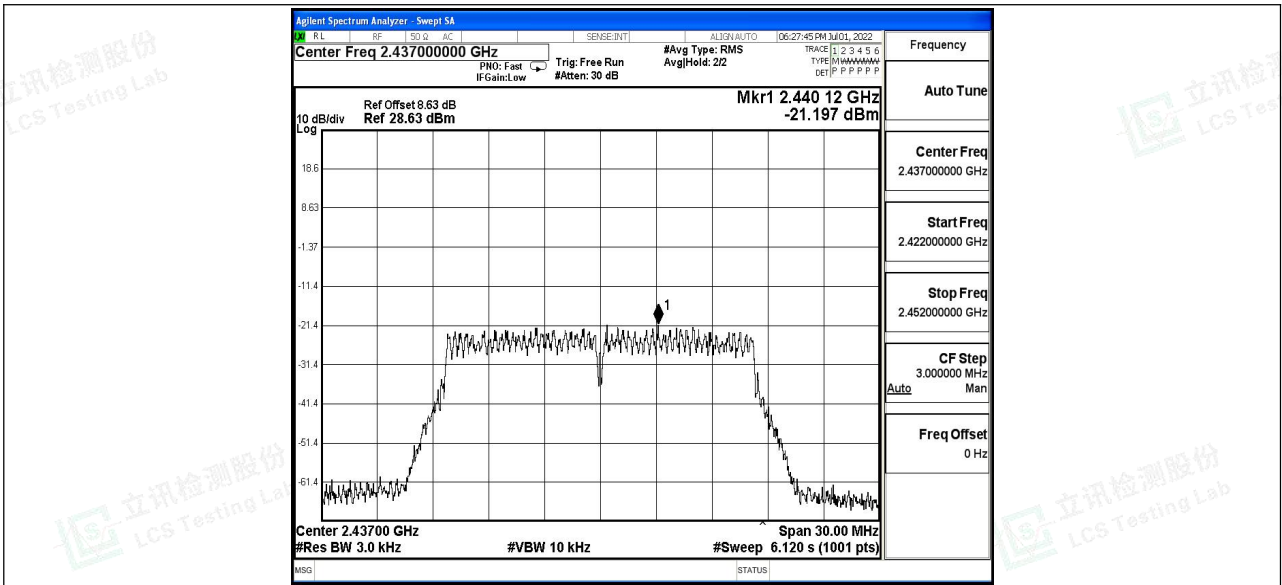


11G_Ant1_2412

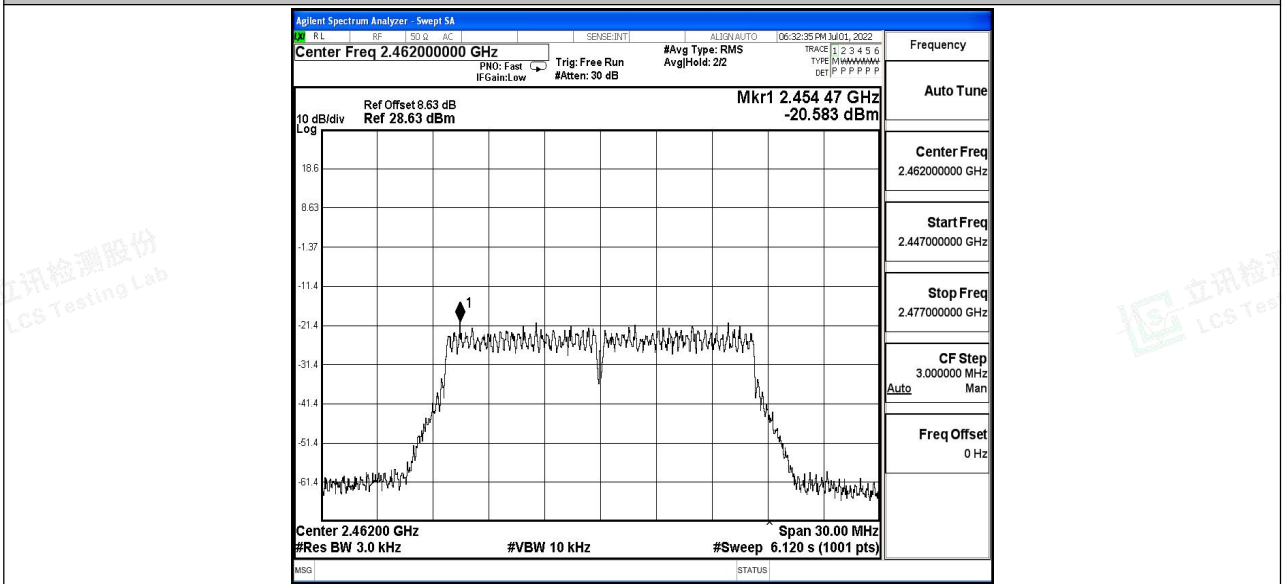


11G_Ant1_2437



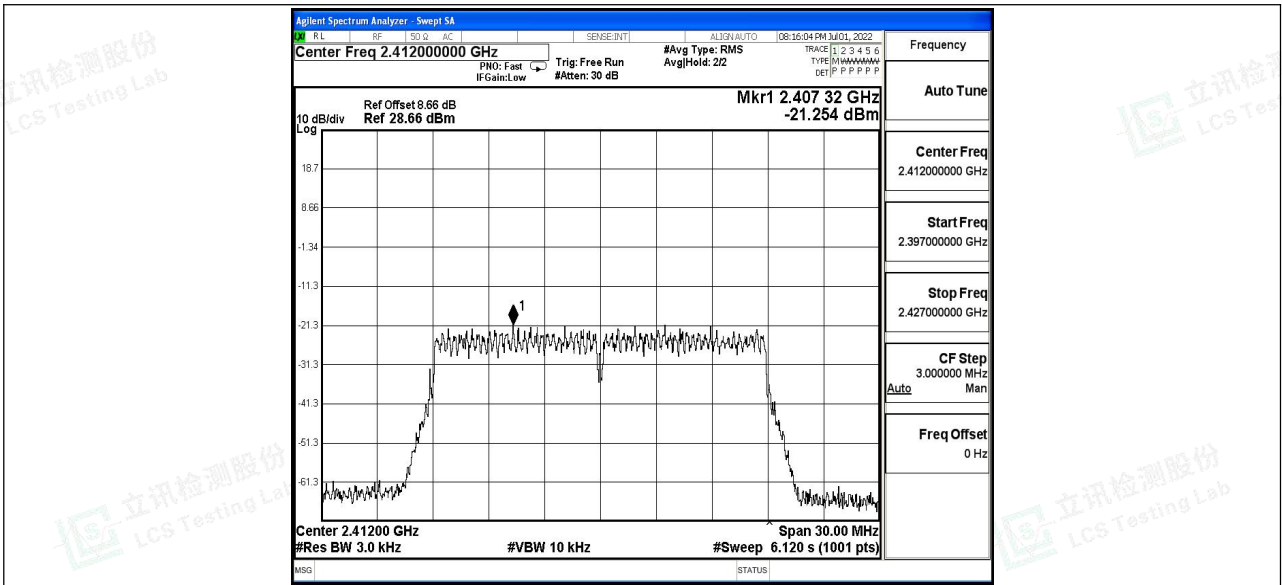


11G_Ant1_2462

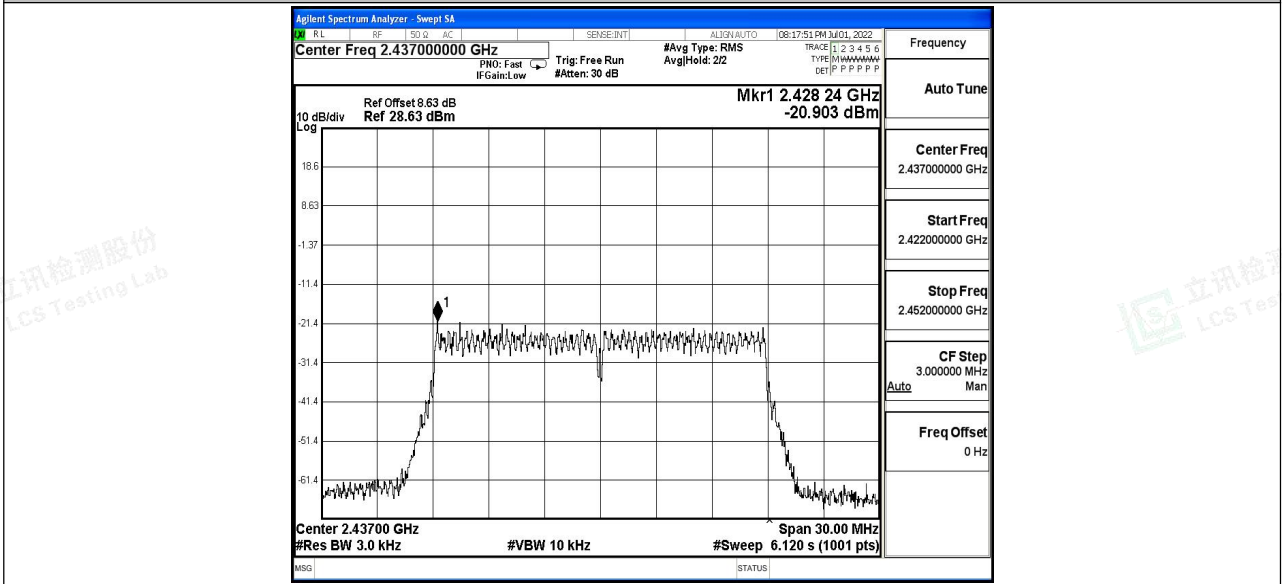


11N20SISO_Ant1_2412





11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

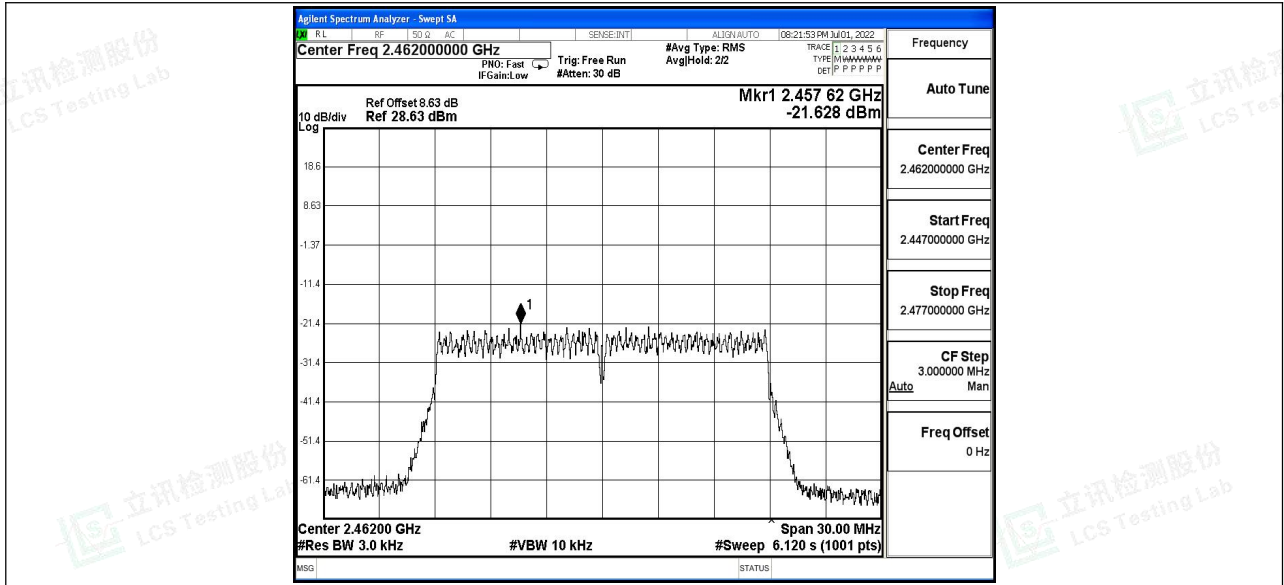


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B.4 Band edge measurements

Test Result

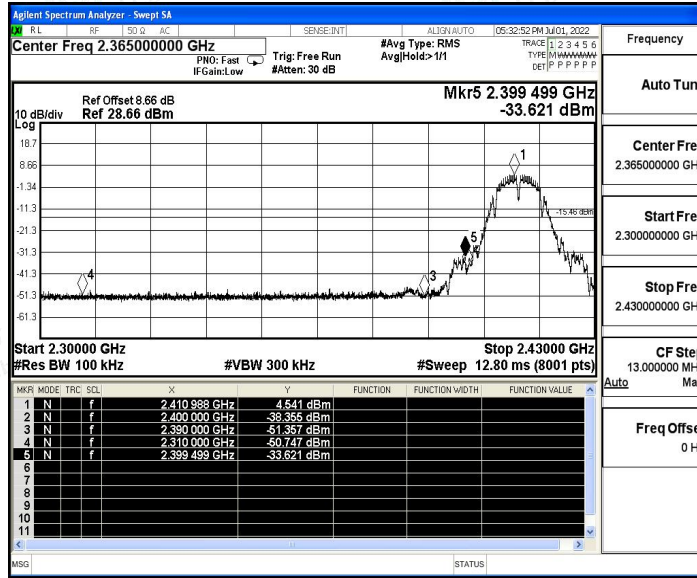
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.54	-33.62	≤-15.46	PASS
		High	2462	0.74	-47.41	≤-19.26	PASS
11G	Ant1	Low	2412	-0.64	-32.3	≤-20.64	PASS
		High	2462	-6.57	-47.41	≤-26.57	PASS
11N20SISO	Ant1	Low	2412	-5.52	-42.82	≤-25.52	PASS
		High	2462	-1.51	-41.84	≤-21.51	PASS



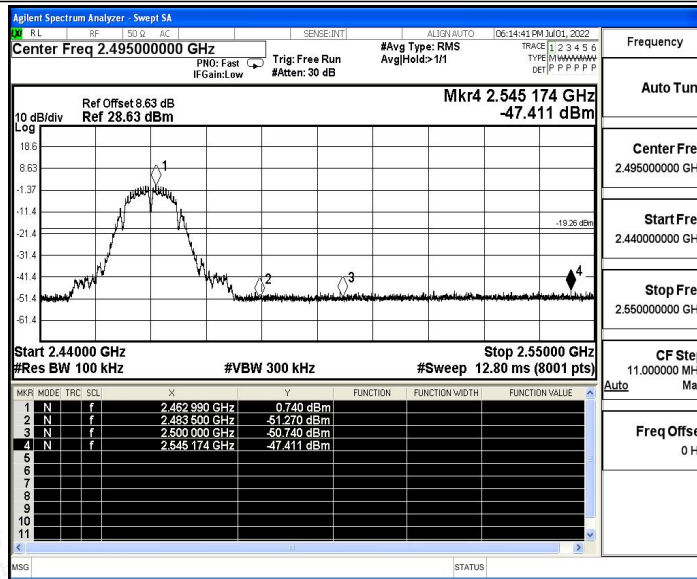


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

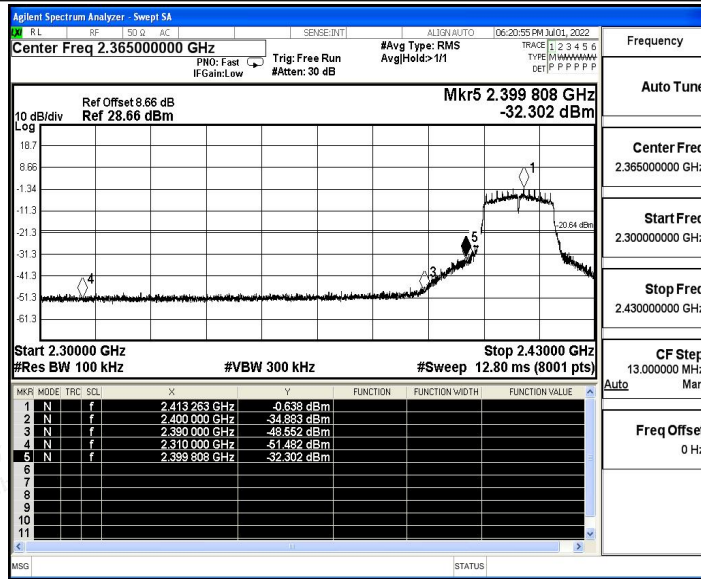


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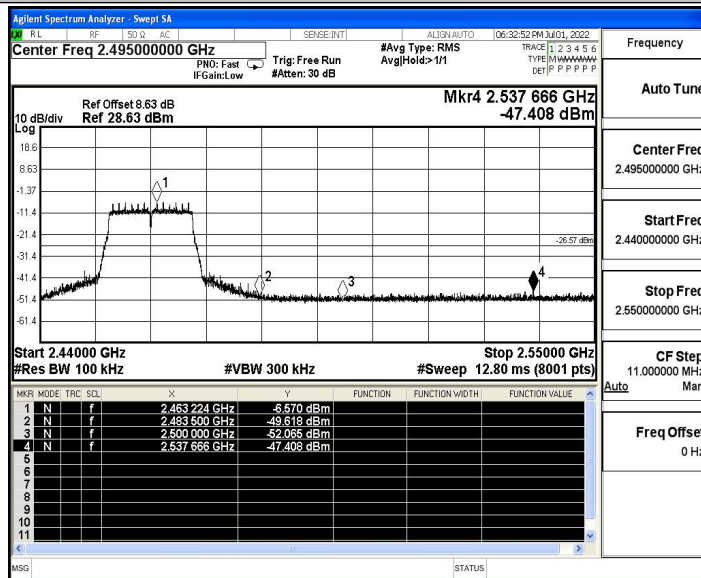
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

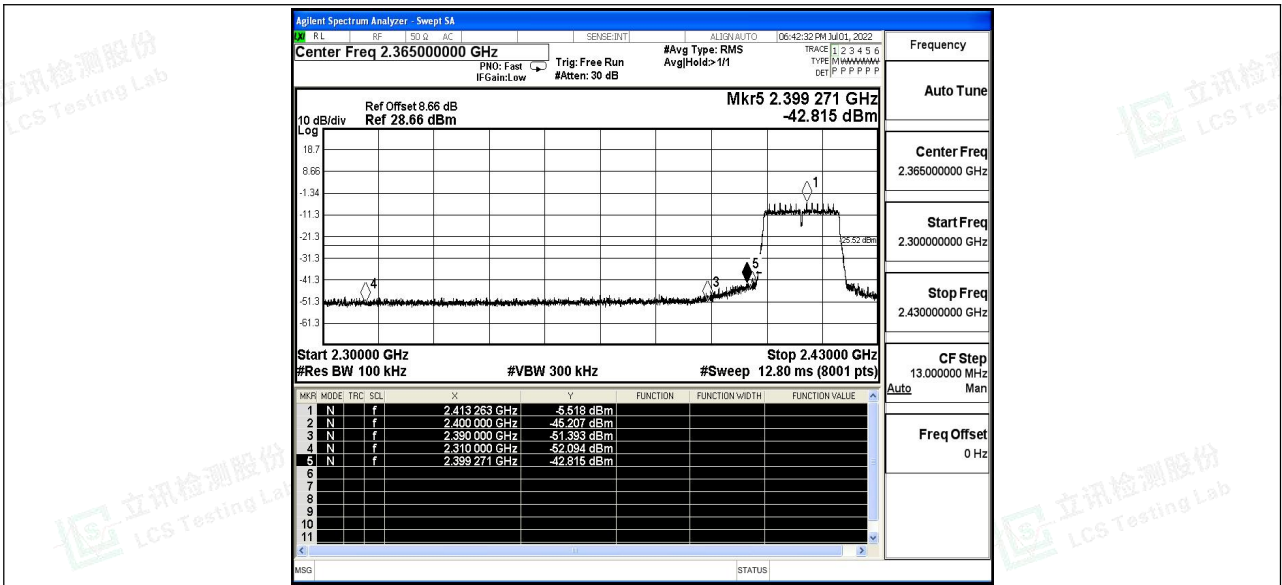


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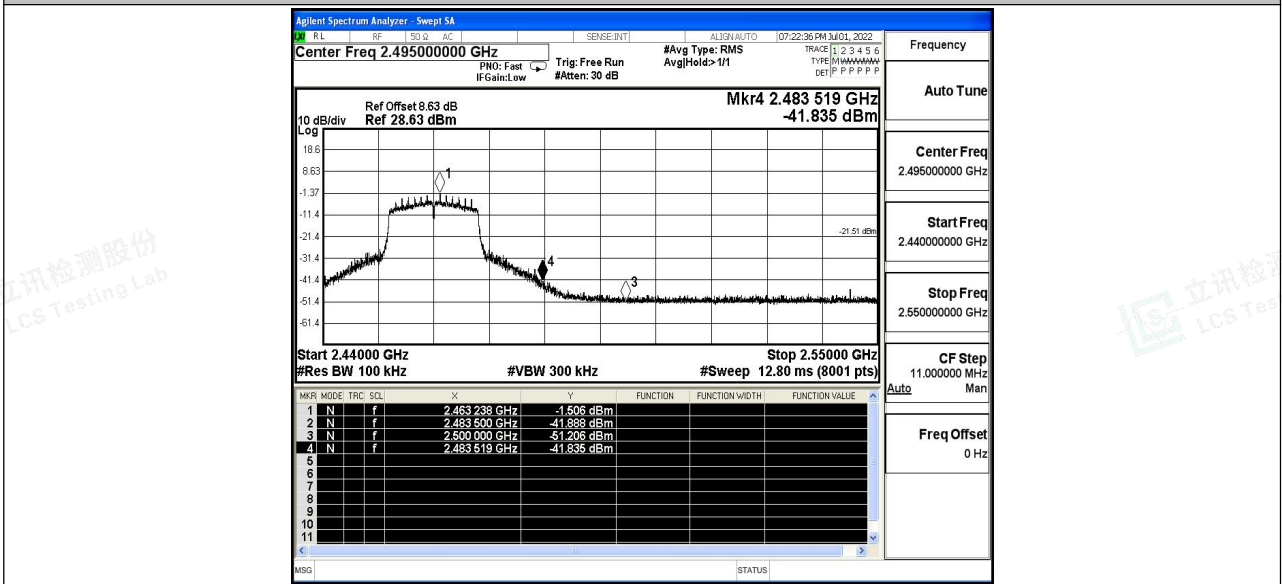
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11N20SISO_Ant1_High_2462



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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.63	4.63	---	PASS
			30~1000	4.63	-52.24	≤-15.37	PASS
			1000~26500	4.63	-44.63	≤-15.37	PASS
		2437	Reference	-2.29	-2.29	---	PASS
			30~1000	-2.29	-46.49	≤-22.29	PASS
			1000~26500	-2.29	-45.67	≤-22.29	PASS
		2462	Reference	0.74	0.74	---	PASS
			30~1000	0.74	-48.41	≤-19.26	PASS
			1000~26500	0.74	-45.37	≤-19.26	PASS
11G	Ant1	2412	Reference	-0.46	-0.46	---	PASS
			30~1000	-0.46	-51.09	≤-20.46	PASS
			1000~26500	-0.46	-45.73	≤-20.46	PASS
		2437	Reference	-6.72	-6.72	---	PASS
			30~1000	-6.72	-50.18	≤-26.72	PASS
			1000~26500	-6.72	-45.1	≤-26.72	PASS
		2462	Reference	-6.15	-6.15	---	PASS
			30~1000	-6.15	-30.98	≤-26.15	PASS
			1000~26500	-6.15	-45.87	≤-26.15	PASS
11N20SISO	Ant1	2412	Reference	-5.31	-5.31	---	PASS
			30~1000	-5.31	-37.81	≤-25.31	PASS
			1000~26500	-5.31	-46.03	≤-25.31	PASS
		2437	Reference	-5.37	-5.37	---	PASS
			30~1000	-5.37	-49.93	≤-25.37	PASS
			1000~26500	-5.37	-46.02	≤-25.37	PASS
		2462	Reference	-1.89	-1.89	---	PASS
			30~1000	-1.89	-54.07	≤-21.89	PASS
			1000~26500	-1.89	-45.66	≤-21.89	PASS



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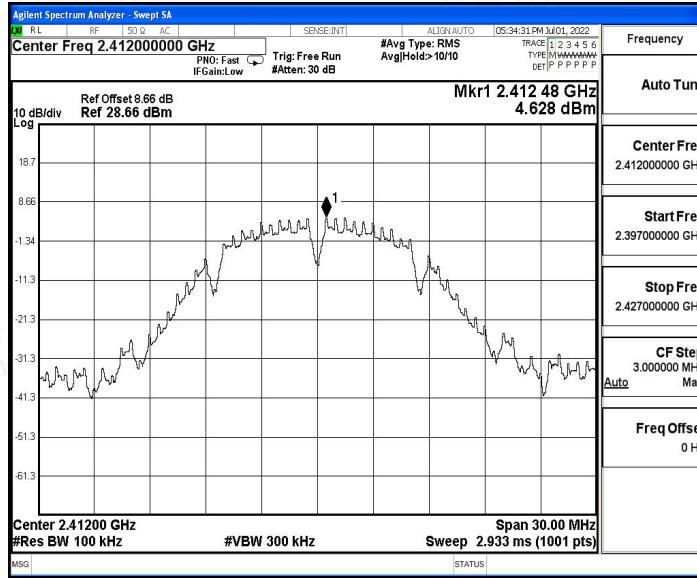
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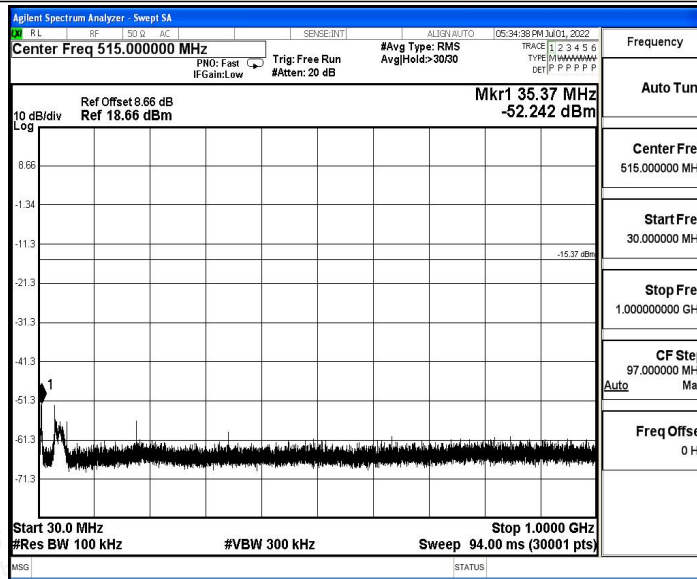


Test Graphs

11B_Ant1_2412_0~Reference

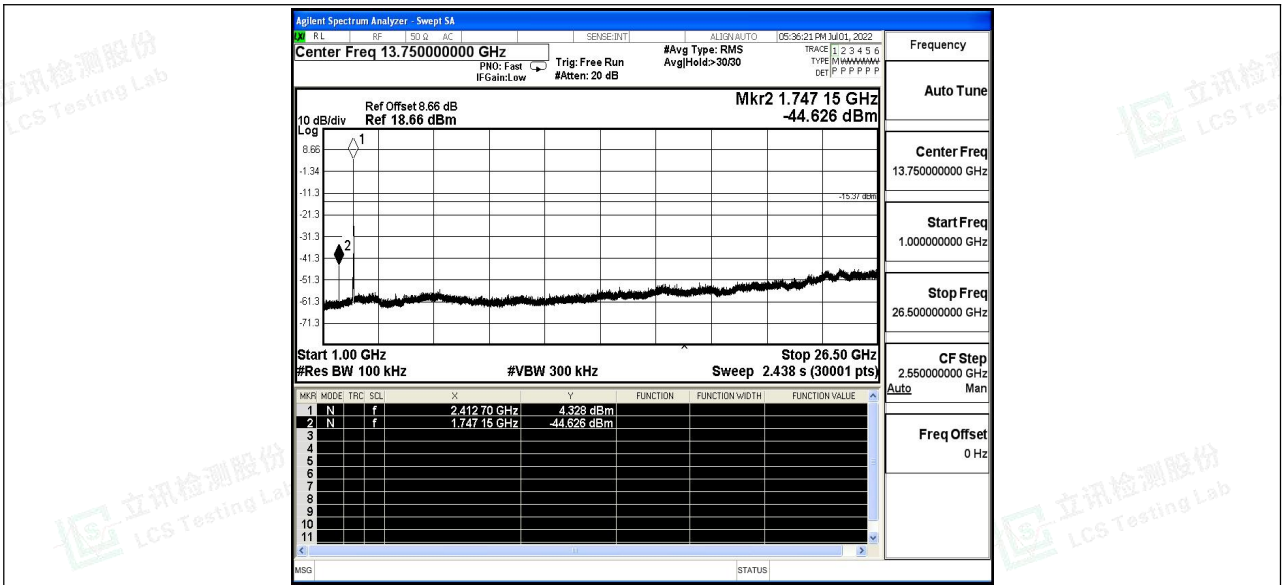


11B_Ant1_2412_30~1000

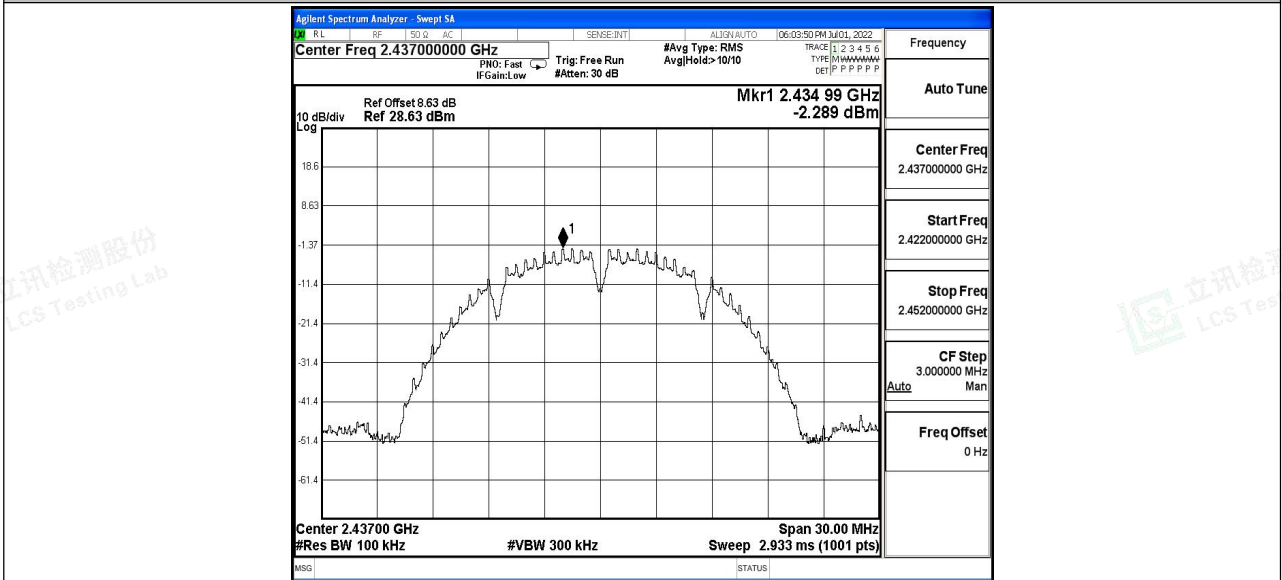


11B_Ant1_2412_1000~26500





11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

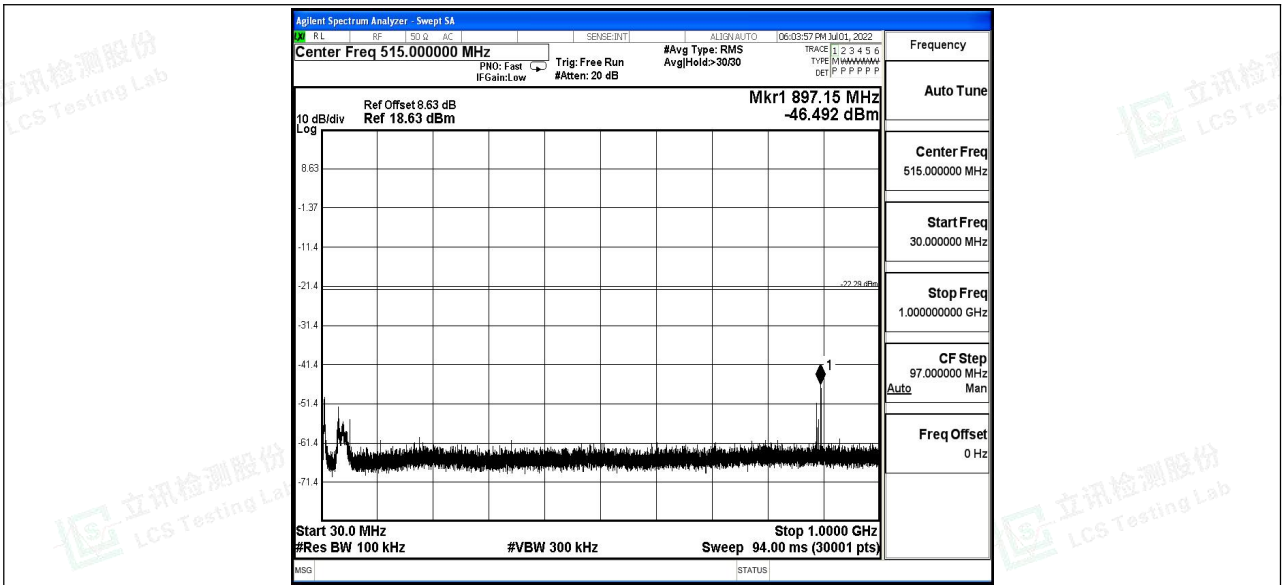


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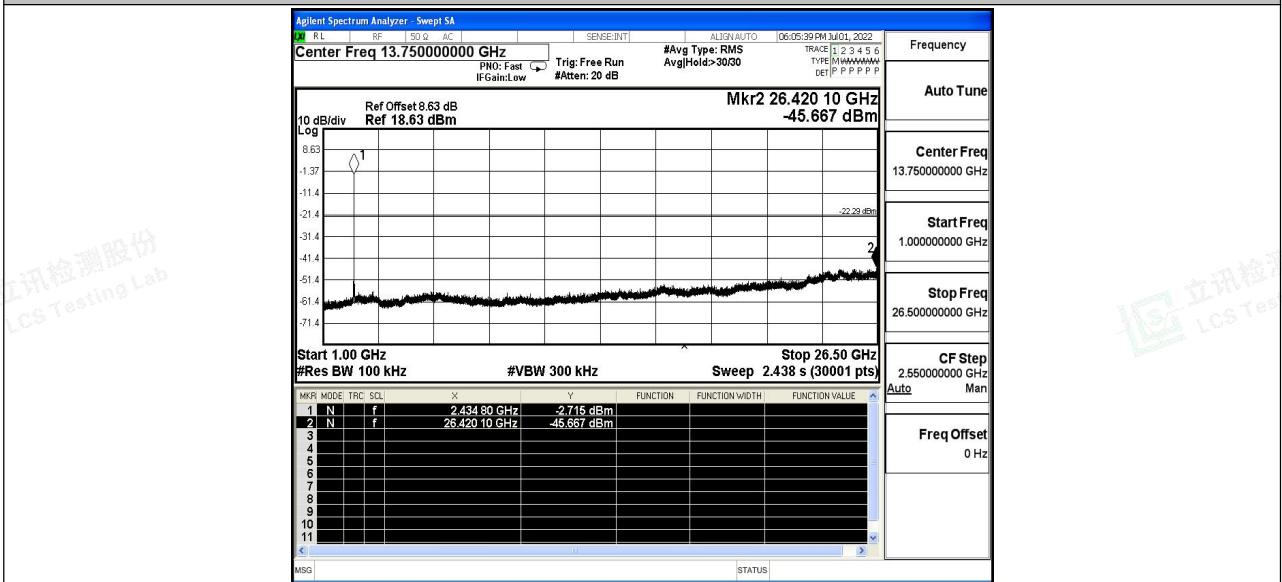
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

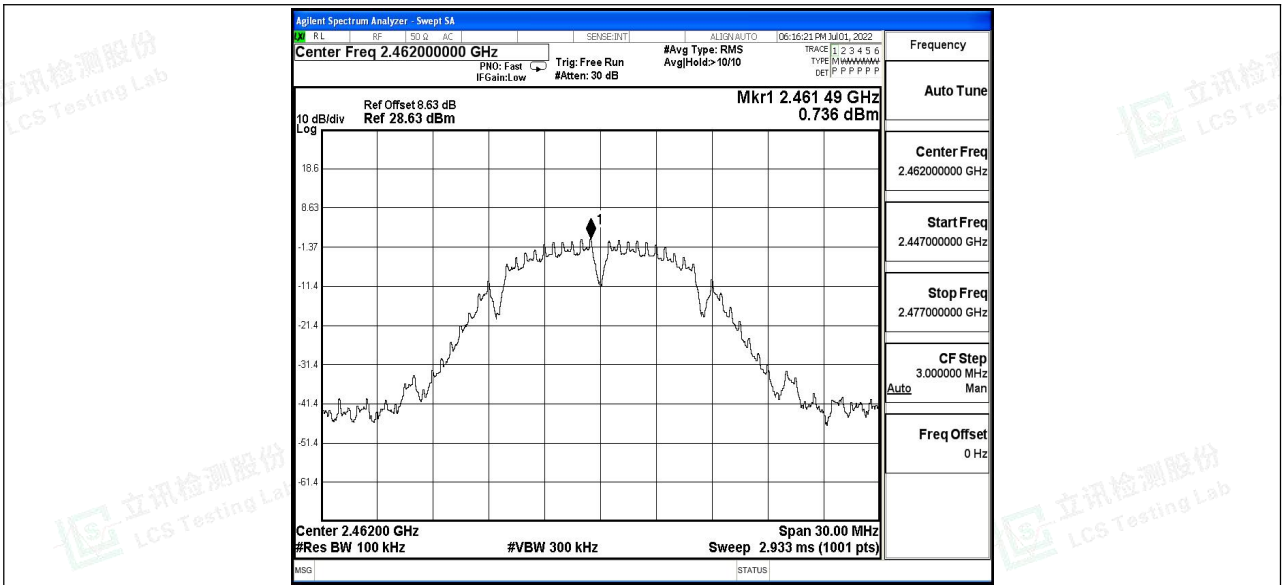


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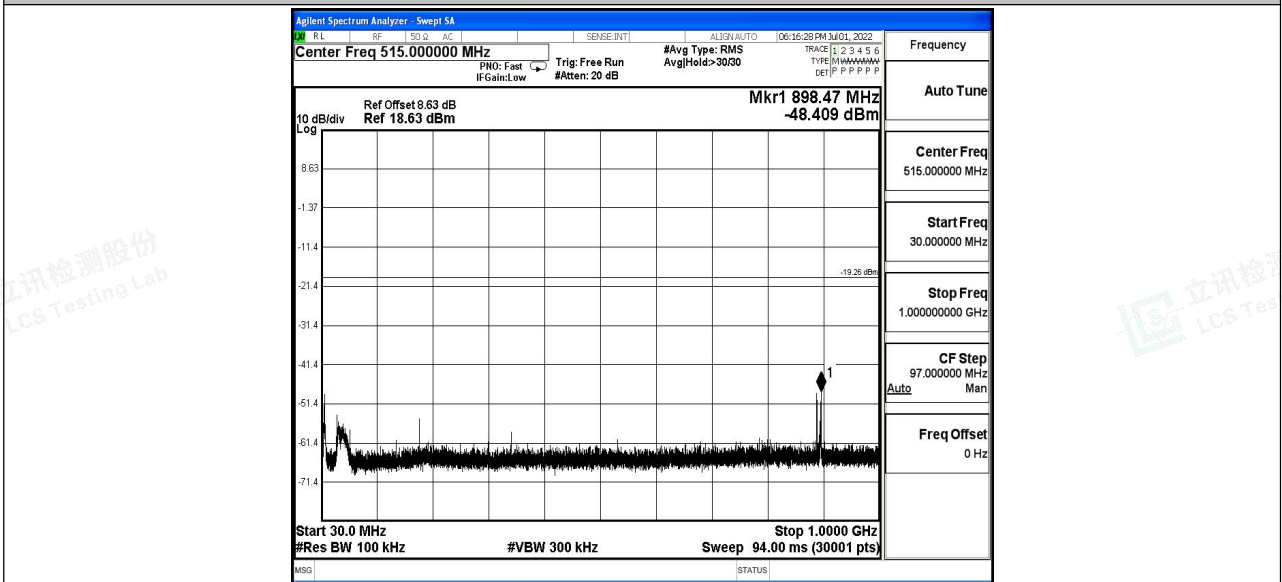
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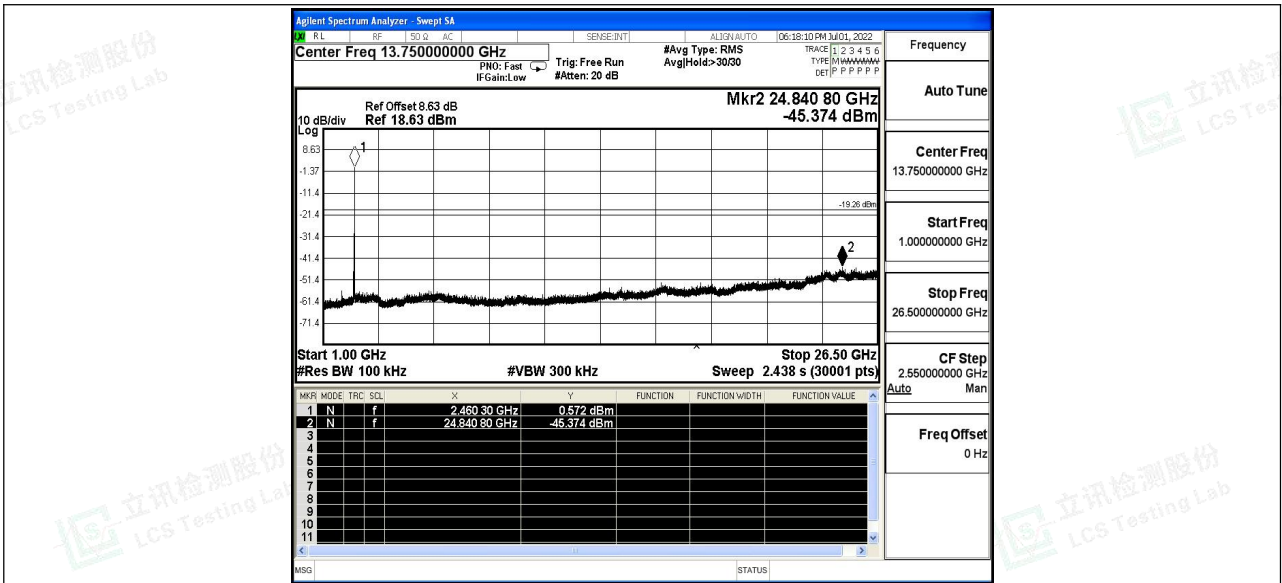


11B_Ant1_2462_30~1000

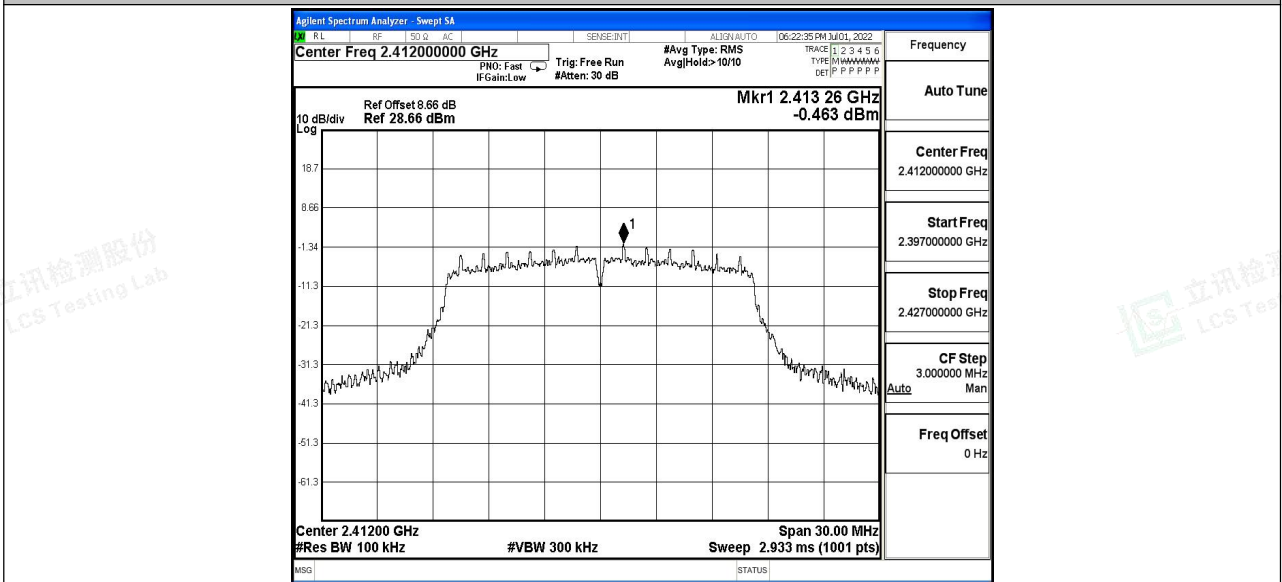


11B_Ant1_2462_1000~26500





11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

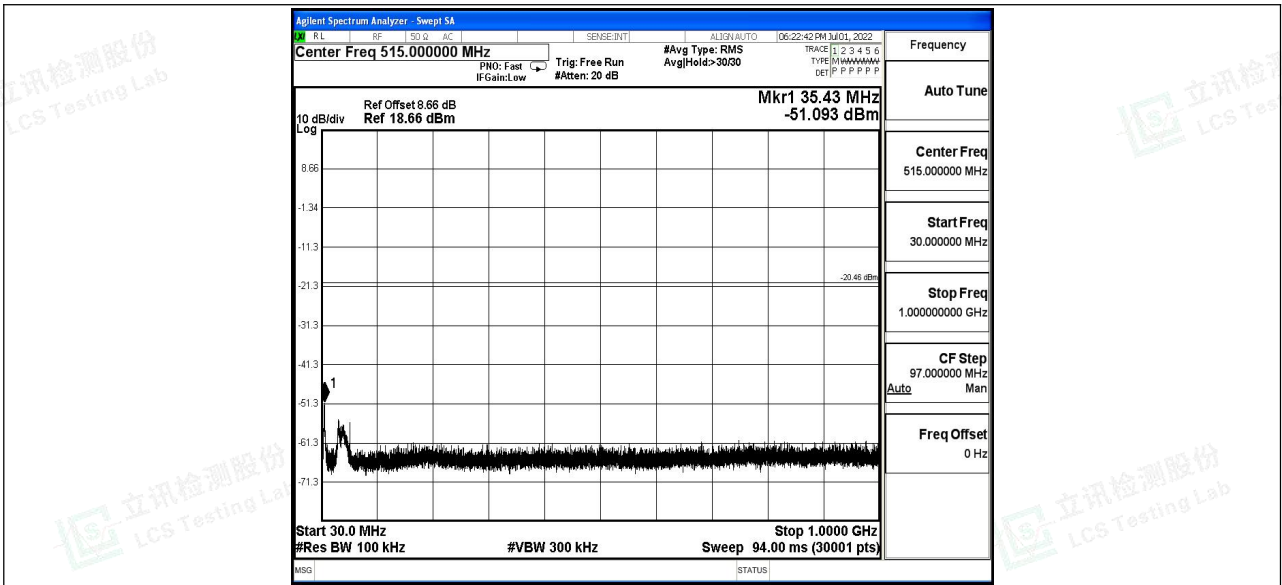


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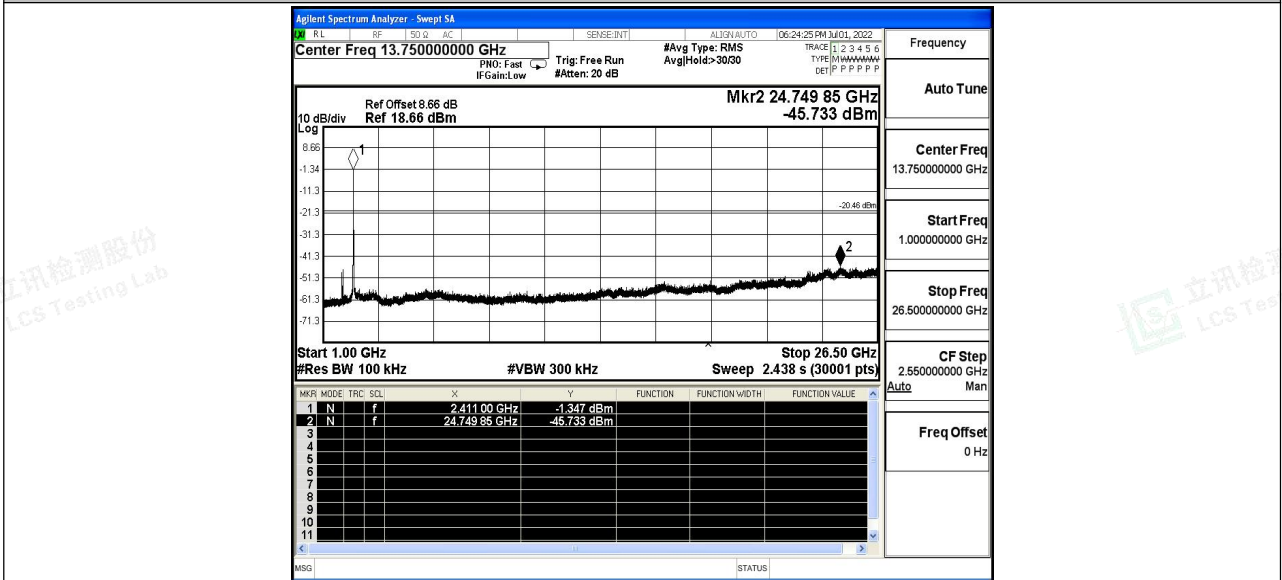
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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

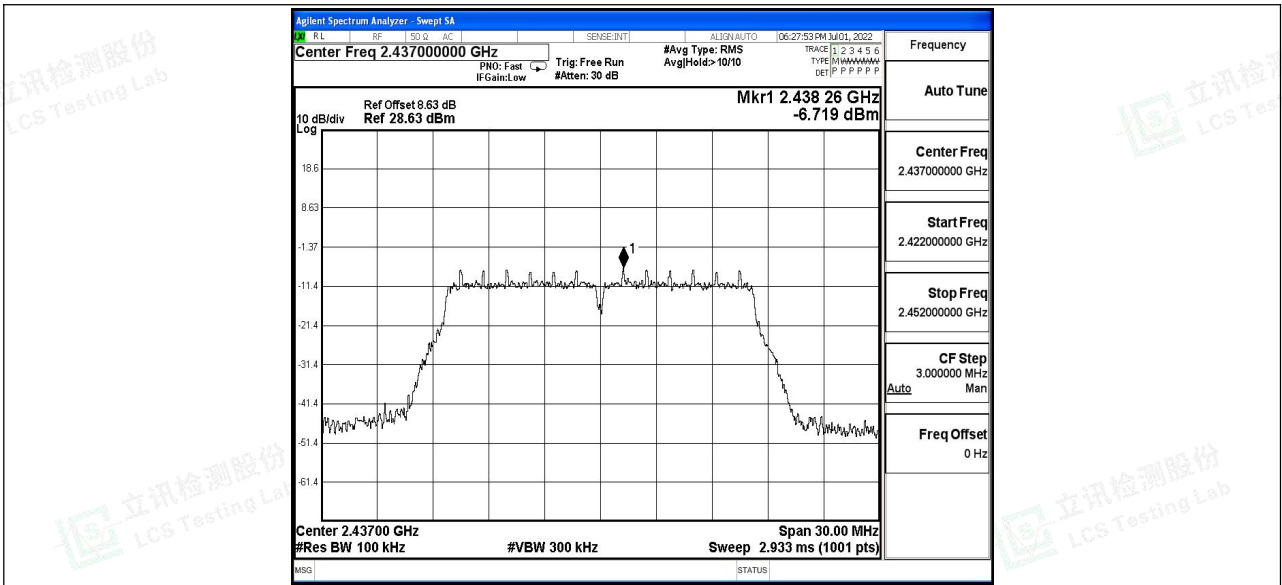


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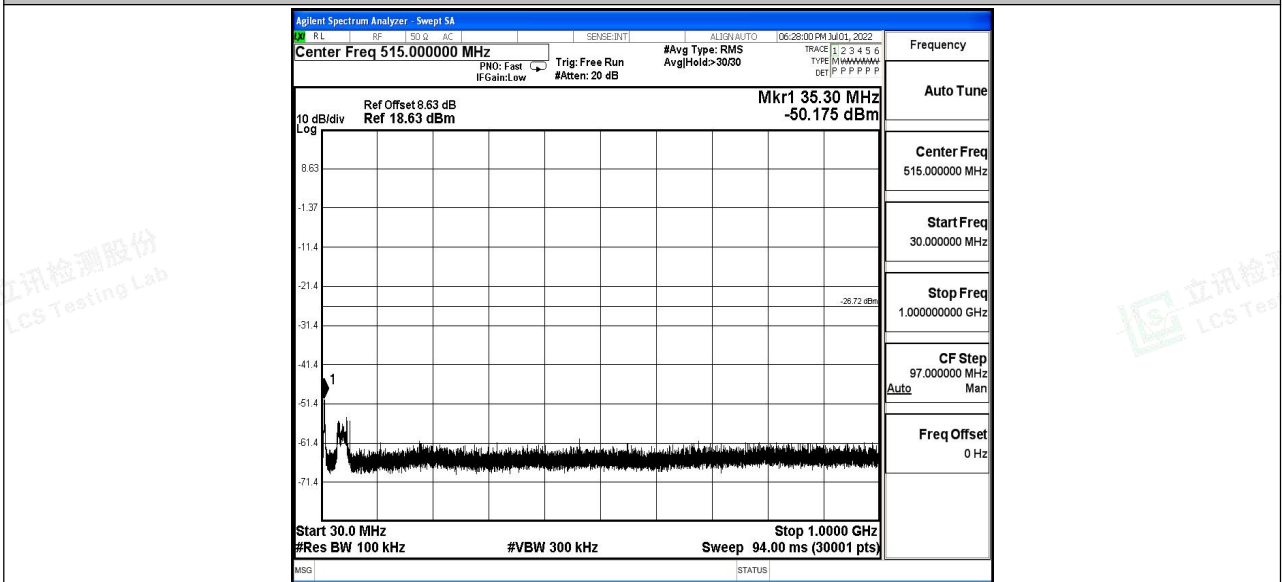
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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

