



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Camcorder

Test Model: HDR-AZ30

Environmental Conditions

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



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A.1 6dB Bandwidth

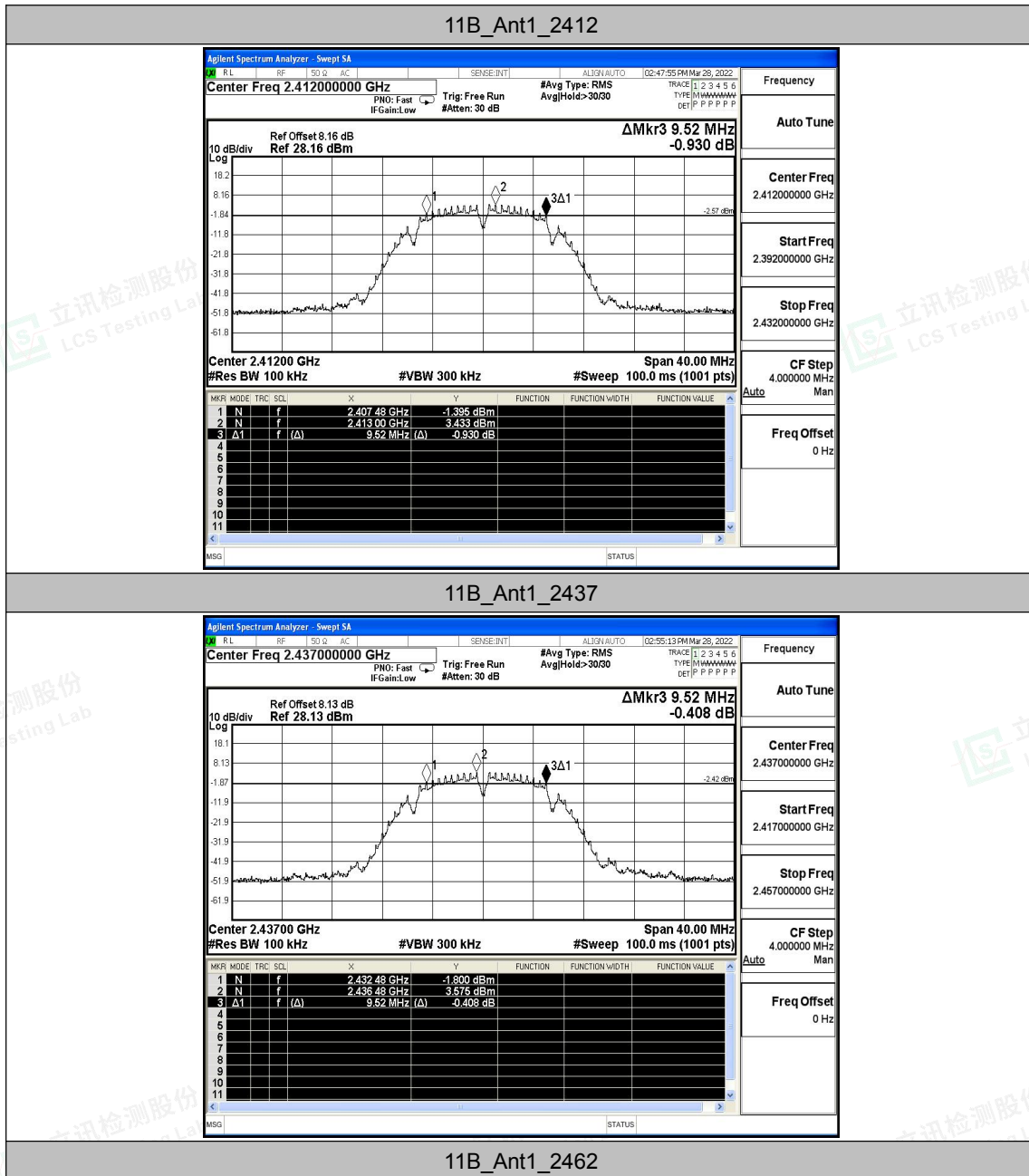
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2407.480	2417.000	0.5	PASS
		2437	9.520	2432.480	2442.000	0.5	PASS
		2462	9.560	2456.960	2466.520	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.280	2428.880	2445.160	0.5	PASS
		2462	16.080	2453.800	2469.880	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.320	2428.480	2445.800	0.5	PASS
		2462	17.280	2453.200	2470.480	0.5	PASS
11N40SISO	Ant1	2422	17.600	2413.200	2430.800	0.5	PASS
		2437	17.280	2428.520	2445.800	0.5	PASS
		2452	17.280	2443.200	2460.480	0.5	PASS





Test Graphs

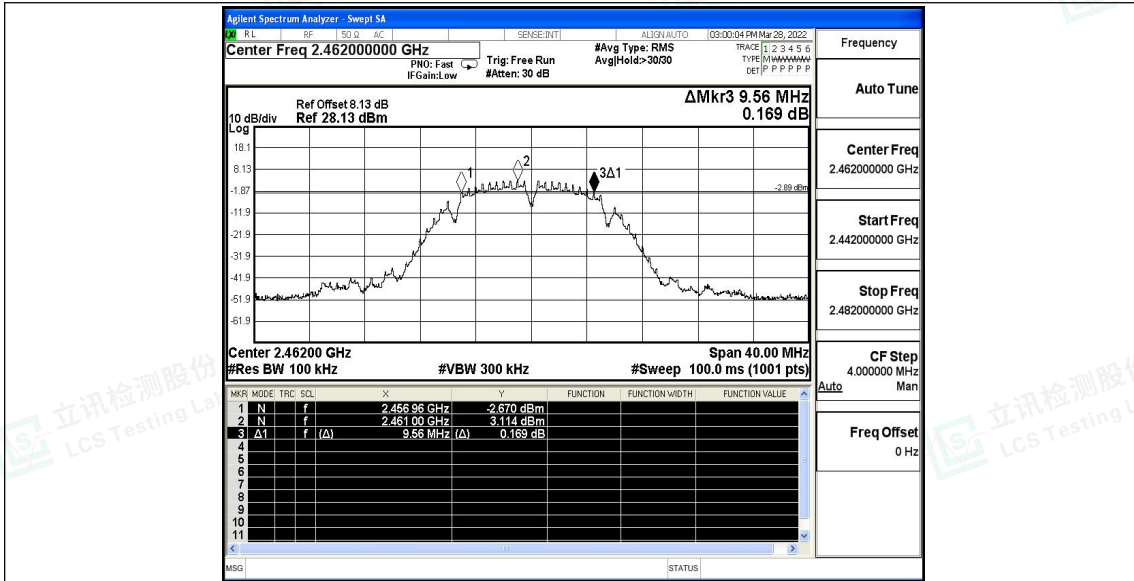


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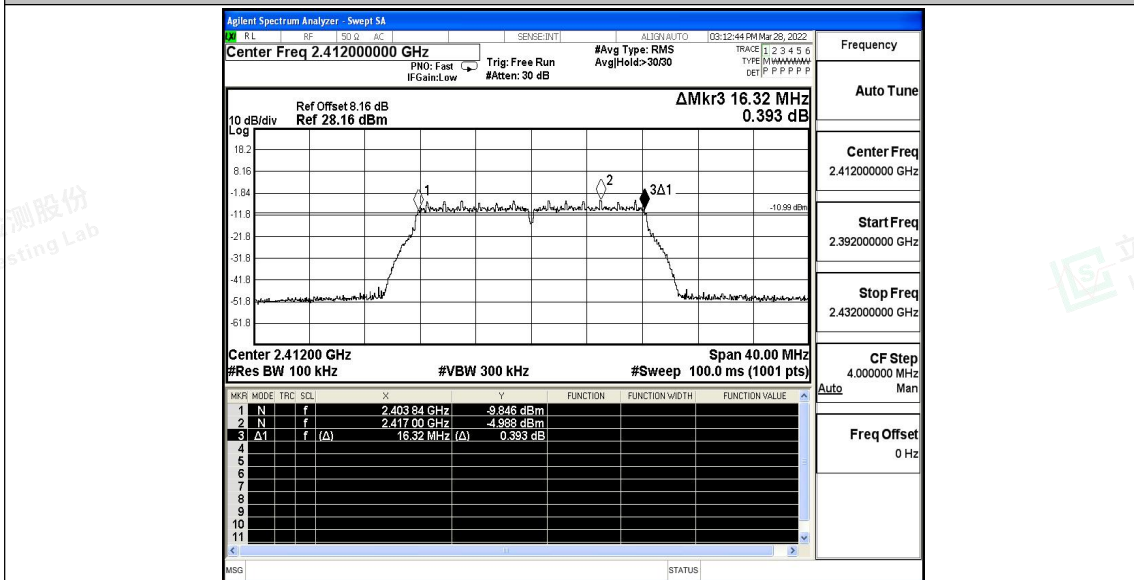
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11G_Ant1_2412



11G_Ant1_2437

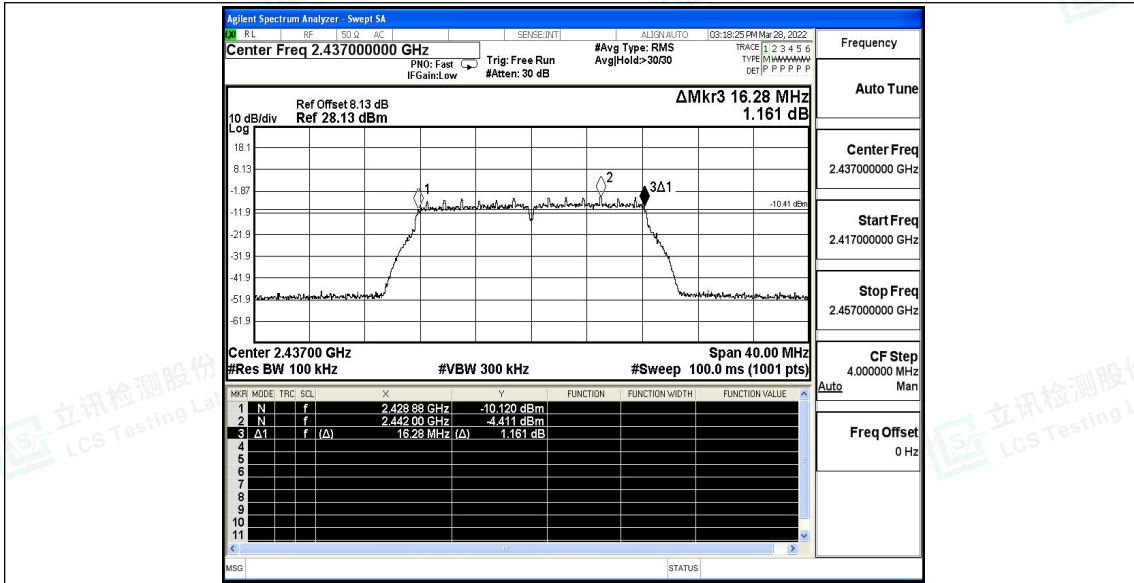


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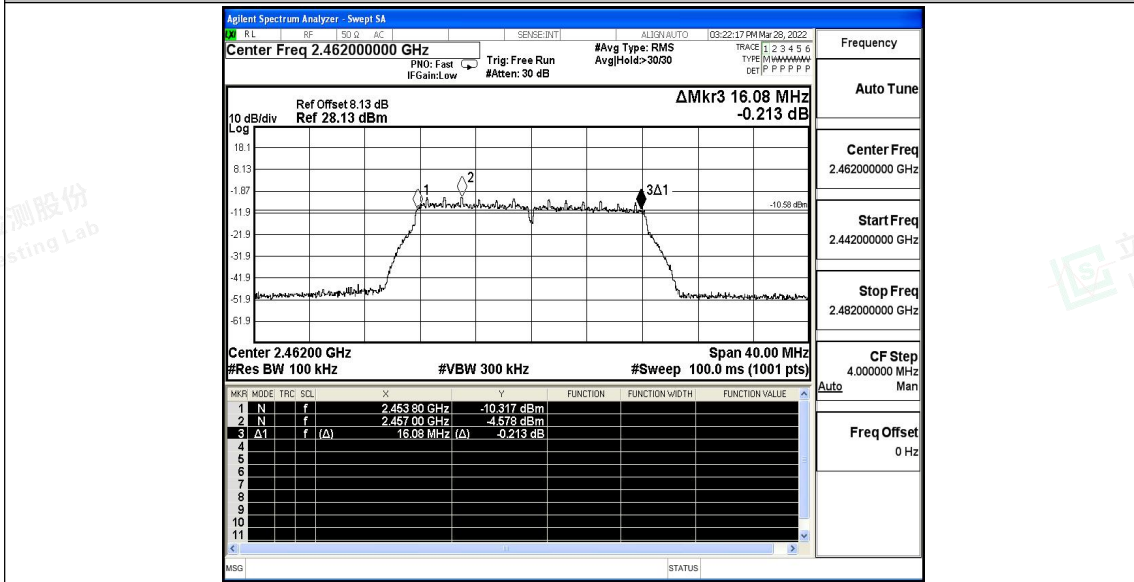
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11G_Ant1_2462



11N20SISO_Ant1_2412

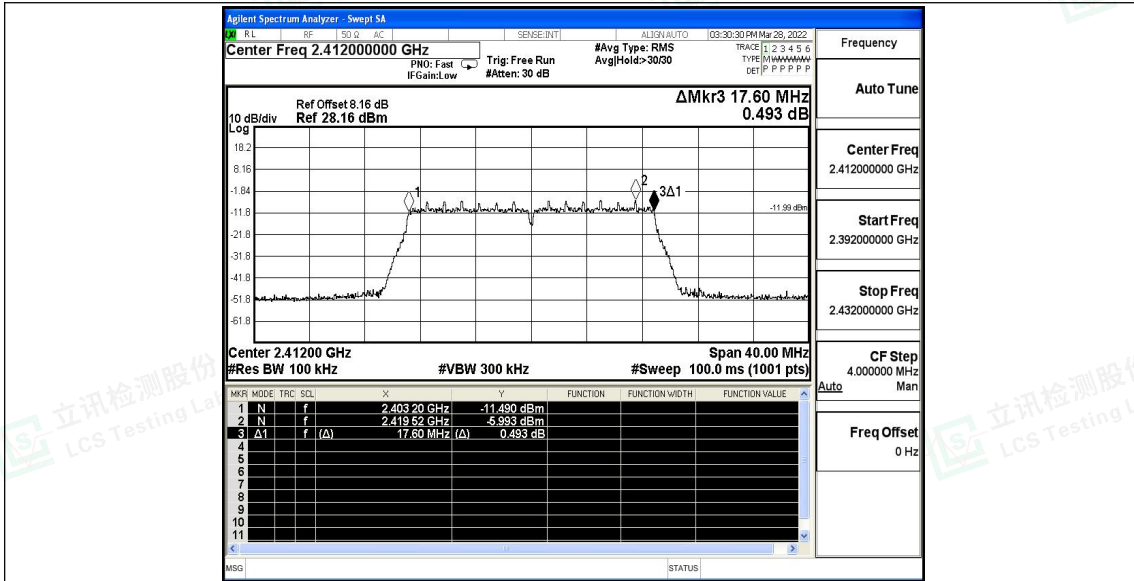


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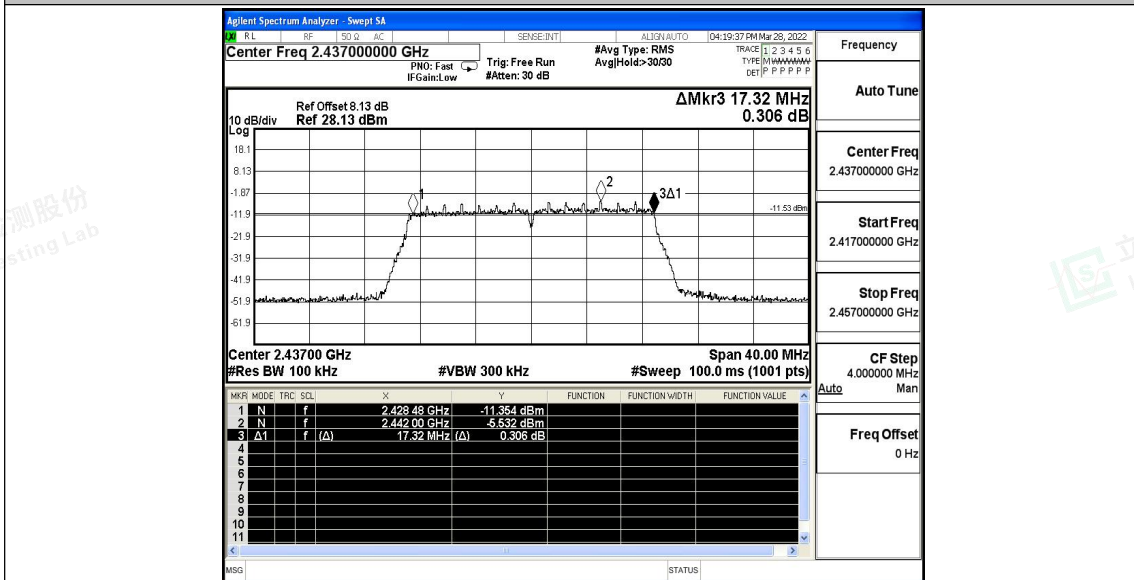
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

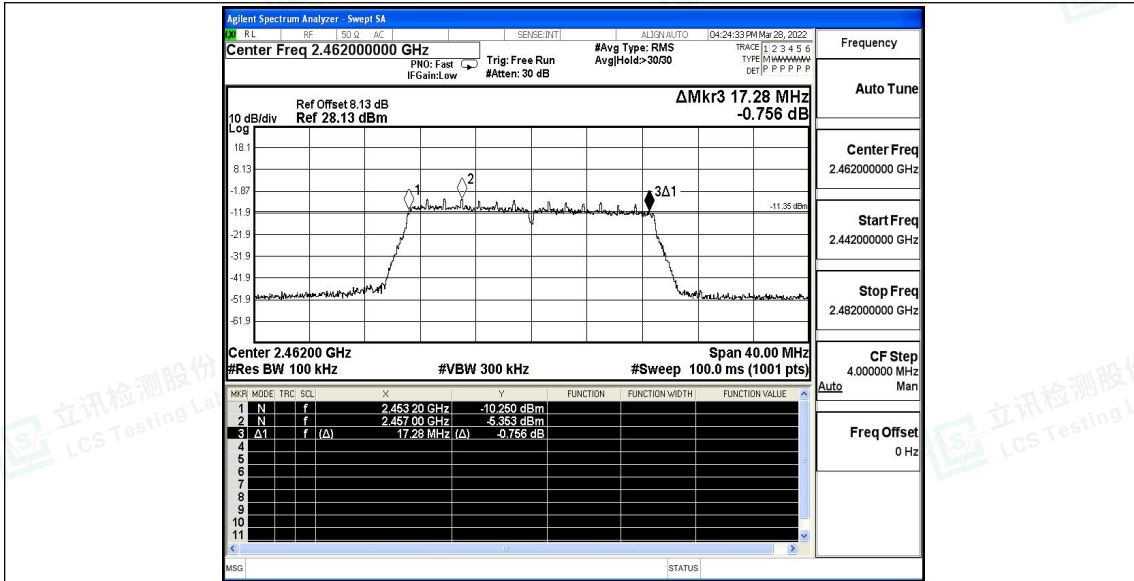


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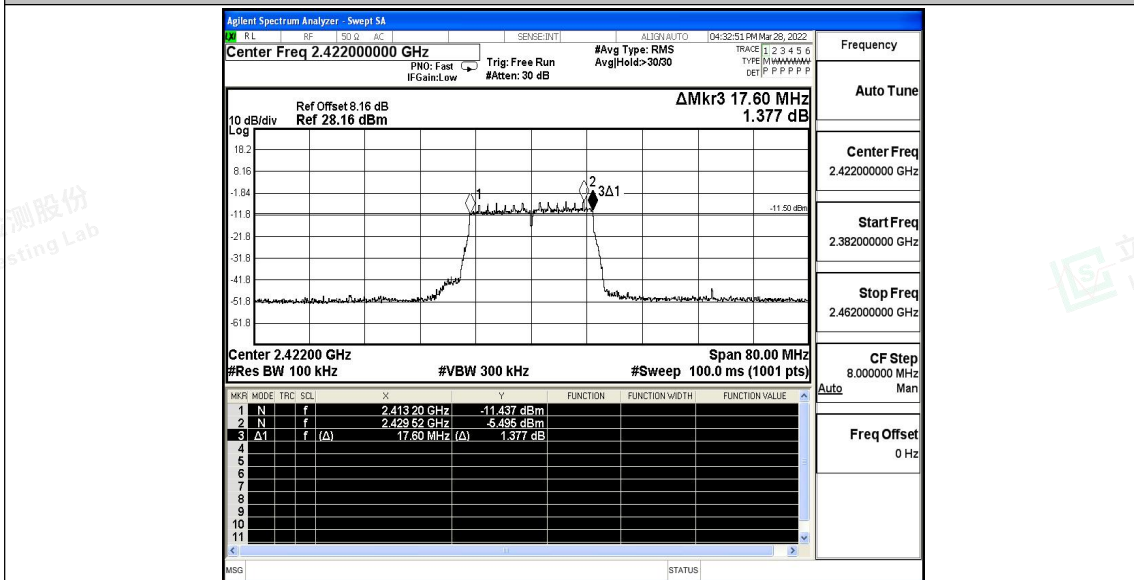
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

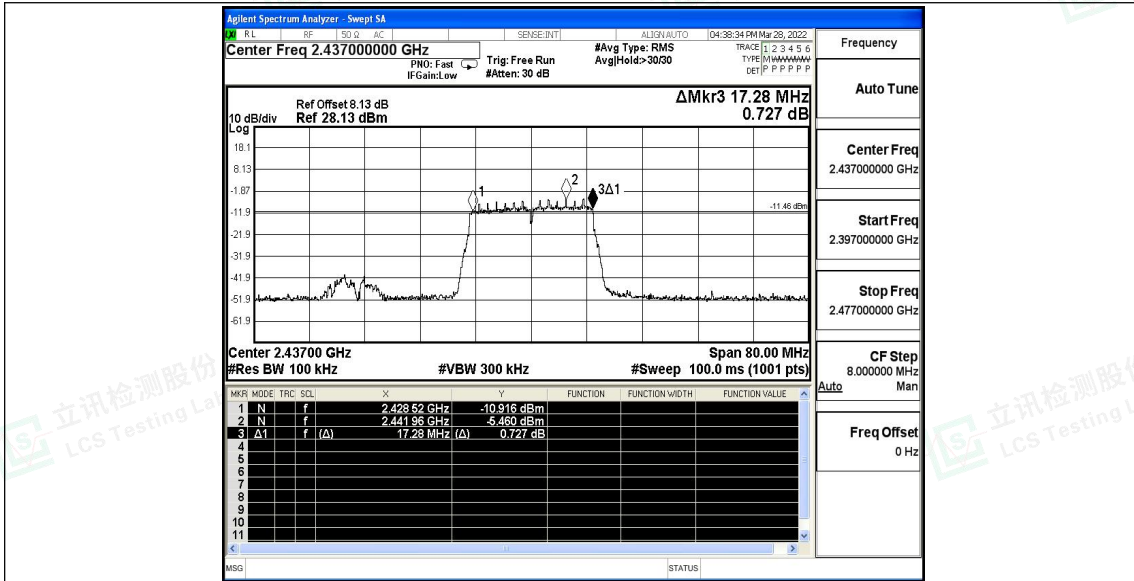


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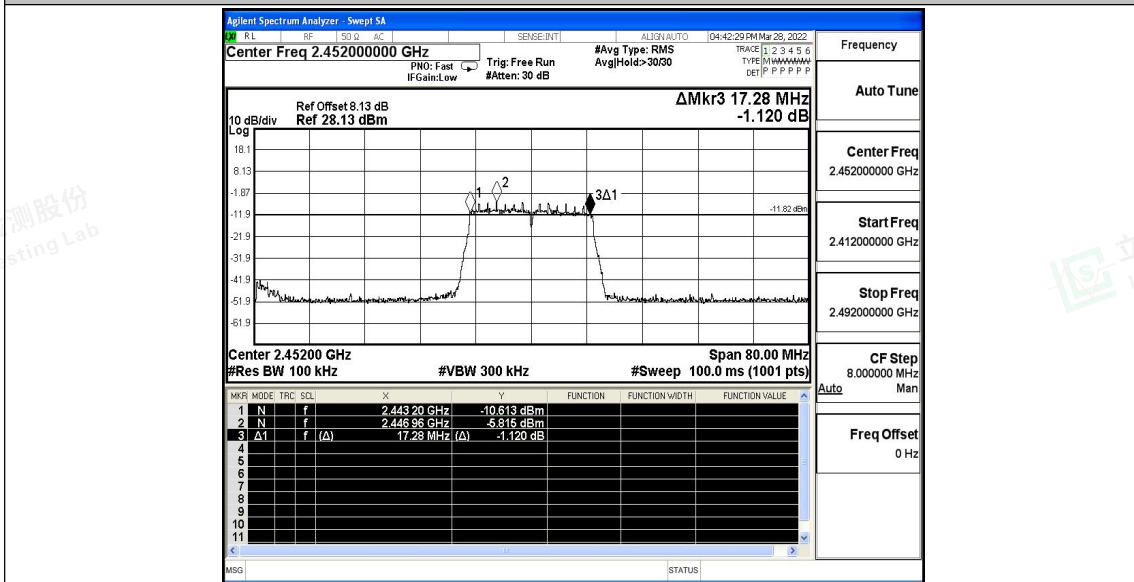
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11N40SISO_Ant1_2452



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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	9.21	≤30.00	PASS
		2437	9.14	≤30.00	PASS
		2462	8.79	≤30.00	PASS
11G	Ant1	2412	8.34	≤30.00	PASS
		2437	8.56	≤30.00	PASS
		2462	8.10	≤30.00	PASS
11N20SISO	Ant1	2412	8.36	≤30.00	PASS
		2437	8.41	≤30.00	PASS
		2462	8.25	≤30.00	PASS
11N40SISO	Ant1	2422	8.53	≤30.00	PASS
		2437	8.42	≤30.00	PASS
		2452	8.14	≤30.00	PASS



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A.3 Maximum power spectral density

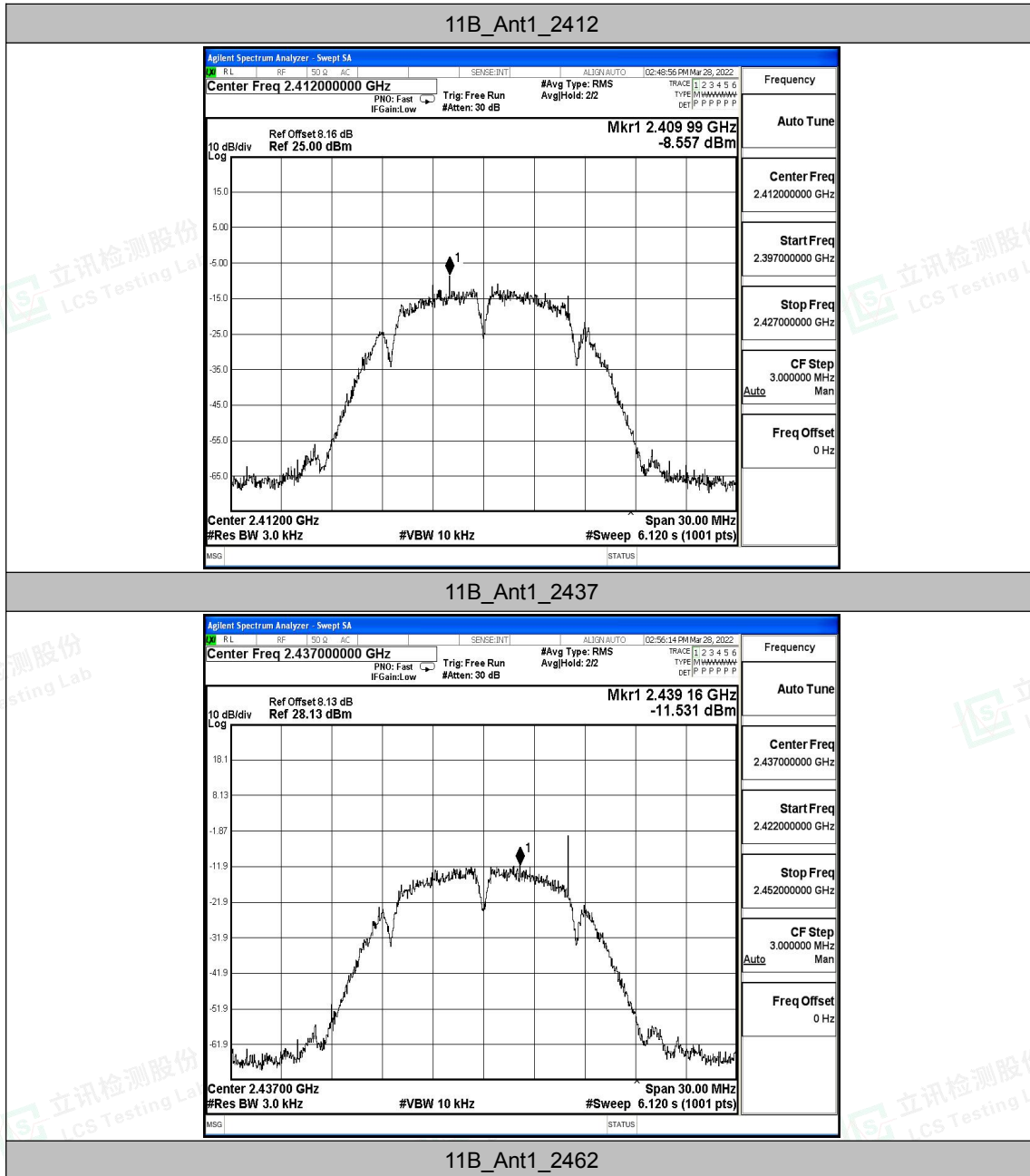
Test Result

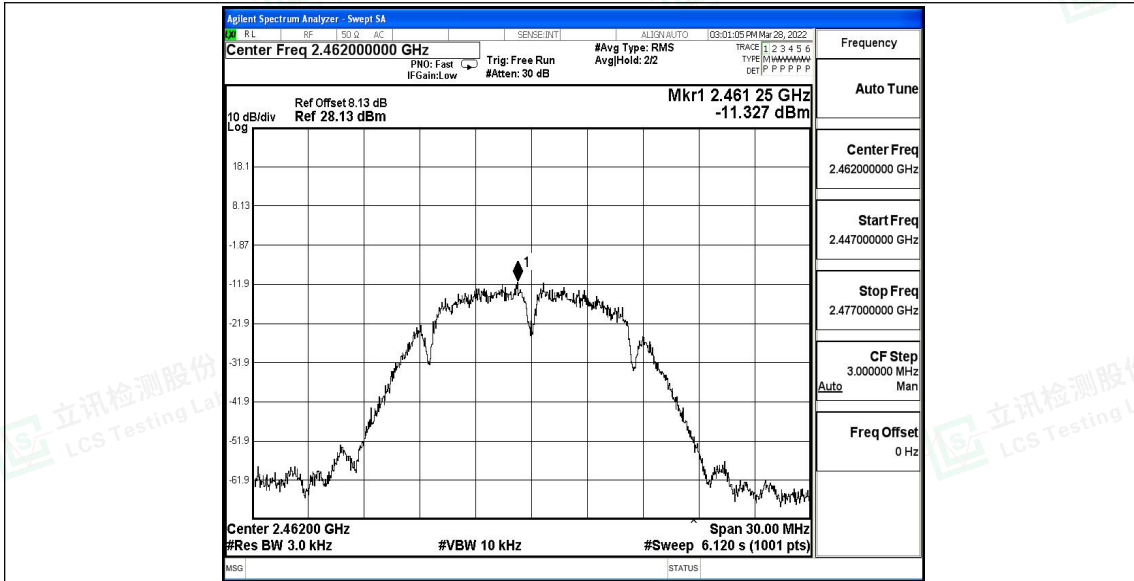
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.56	≤8.00	PASS
		2437	-11.53	≤8.00	PASS
		2462	-11.33	≤8.00	PASS
11G	Ant1	2412	-19.37	≤8.00	PASS
		2437	-18.8	≤8.00	PASS
		2462	-18.67	≤8.00	PASS
11N20SISO	Ant1	2412	-20.56	≤8.00	PASS
		2437	-20.36	≤8.00	PASS
		2462	-20.74	≤8.00	PASS
11N40SISO	Ant1	2422	-19.37	≤8.00	PASS
		2437	-19.91	≤8.00	PASS
		2452	-19.81	≤8.00	PASS



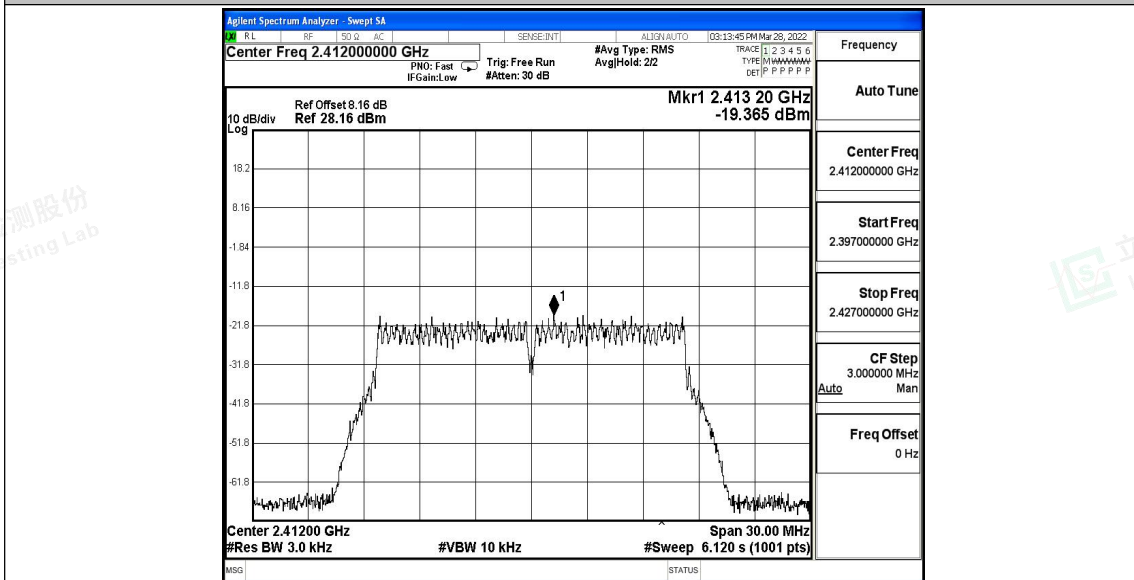


Test Graphs





11G_Ant1_2412



11G_Ant1_2437

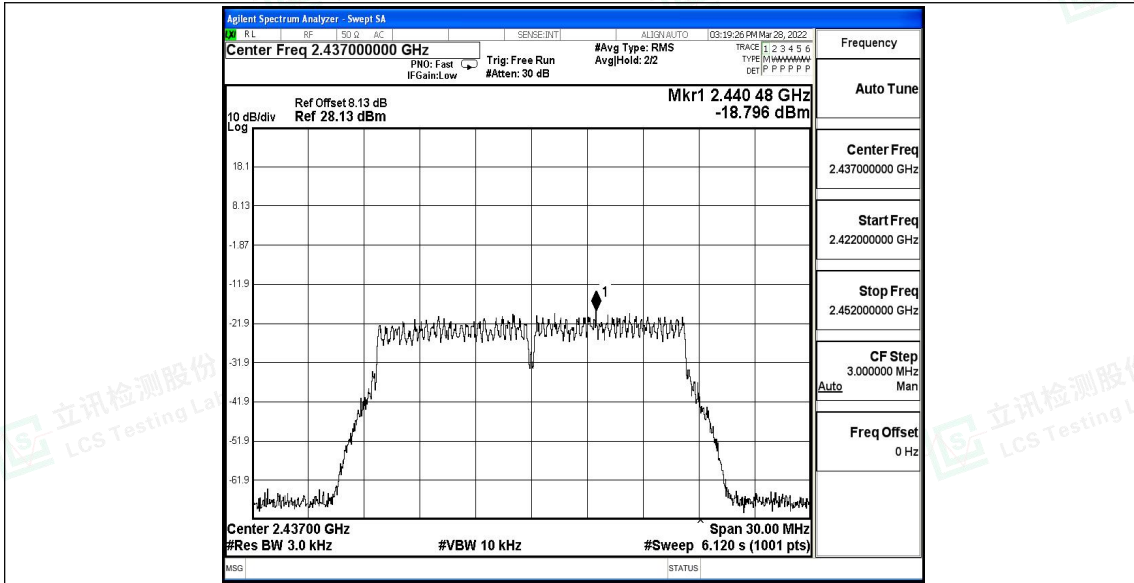


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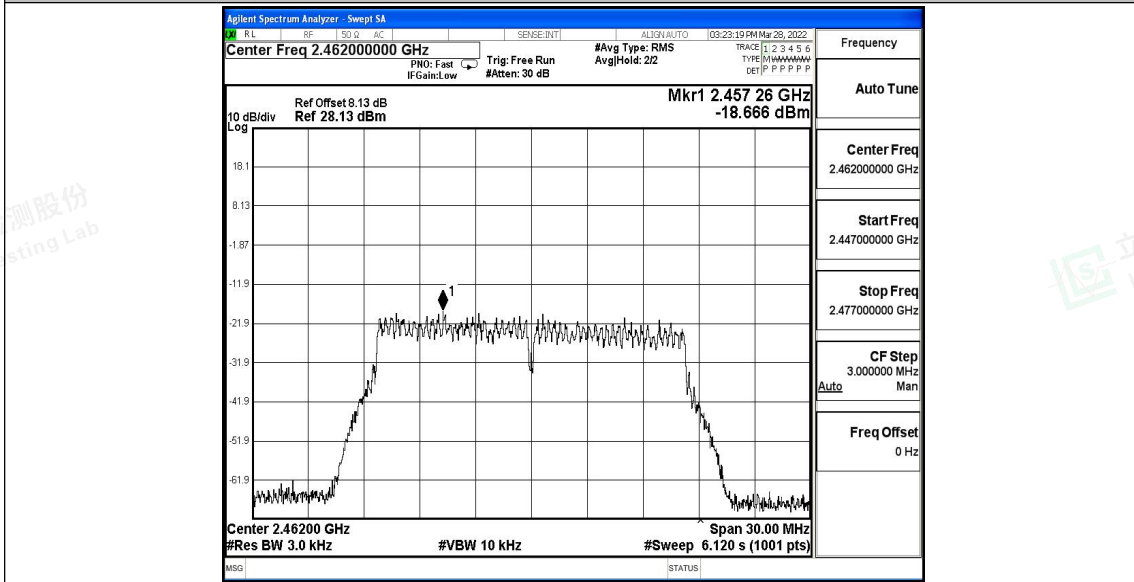
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11G_Ant1_2462



11N20SISO_Ant1_2412

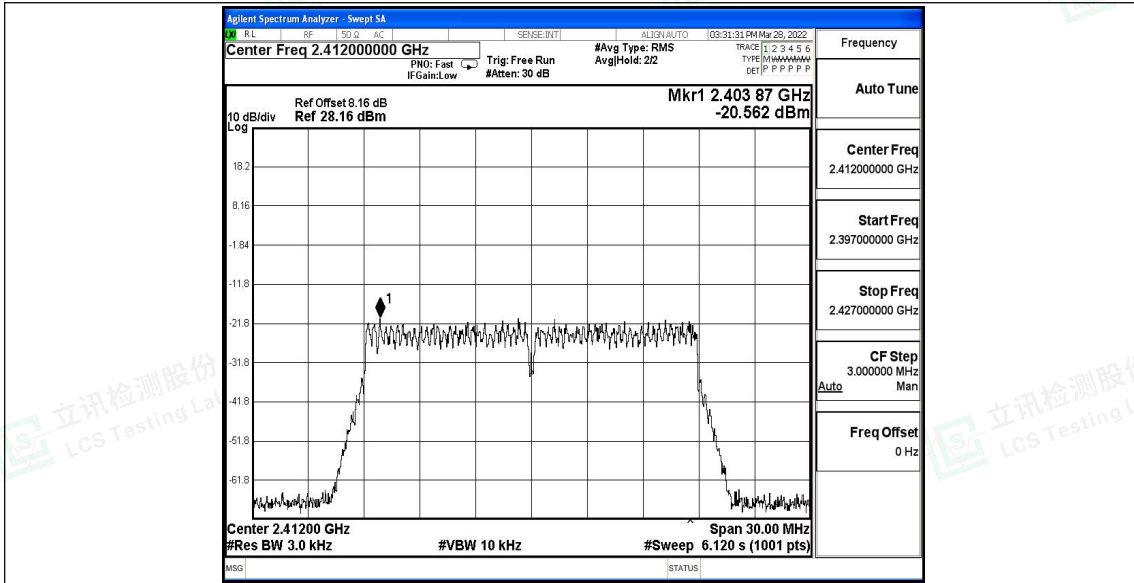


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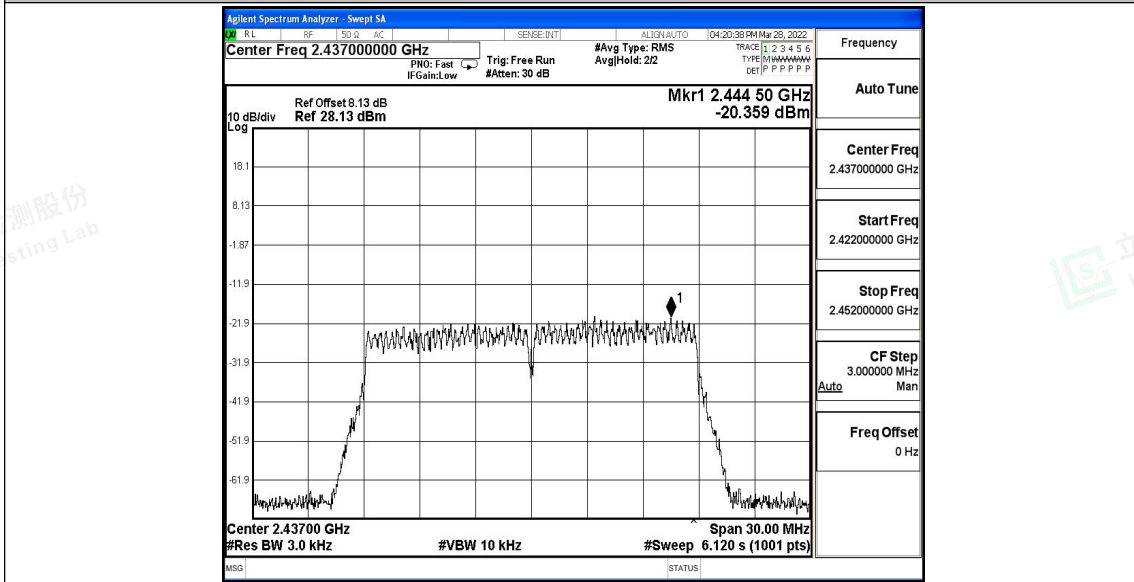
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

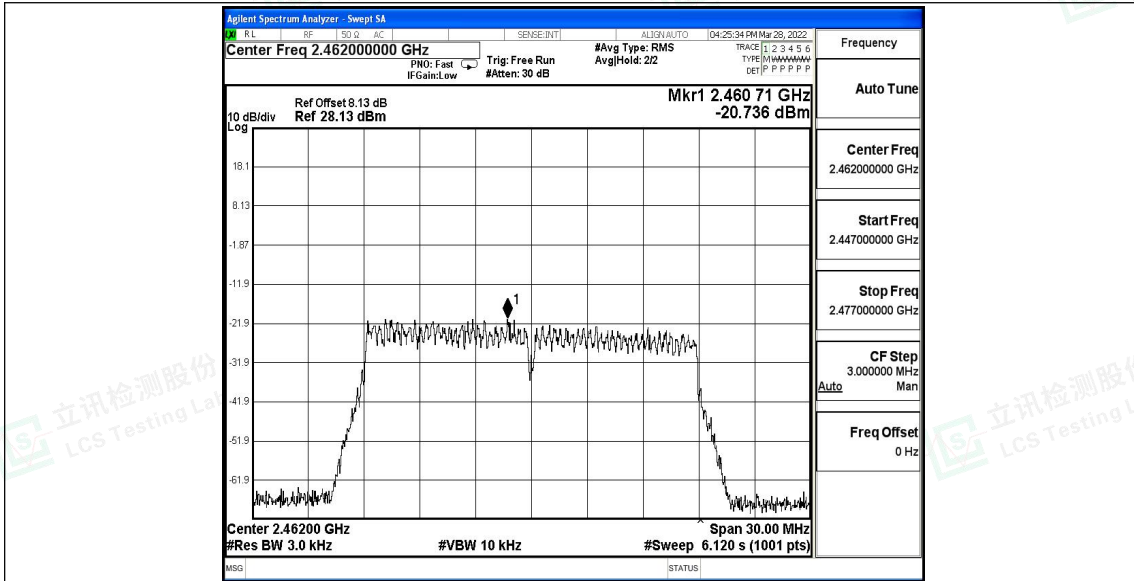


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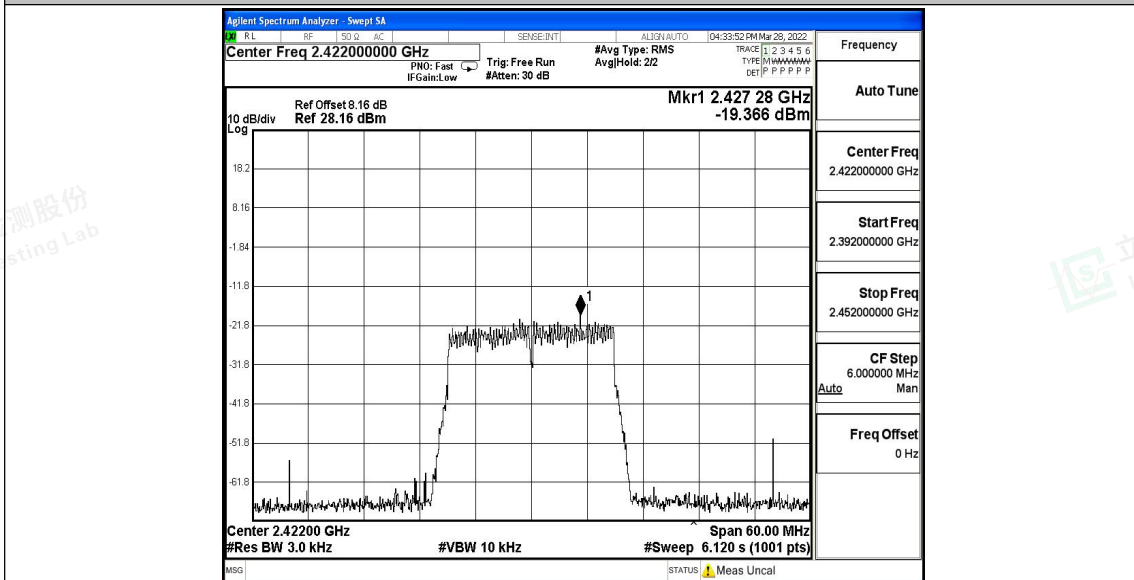
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

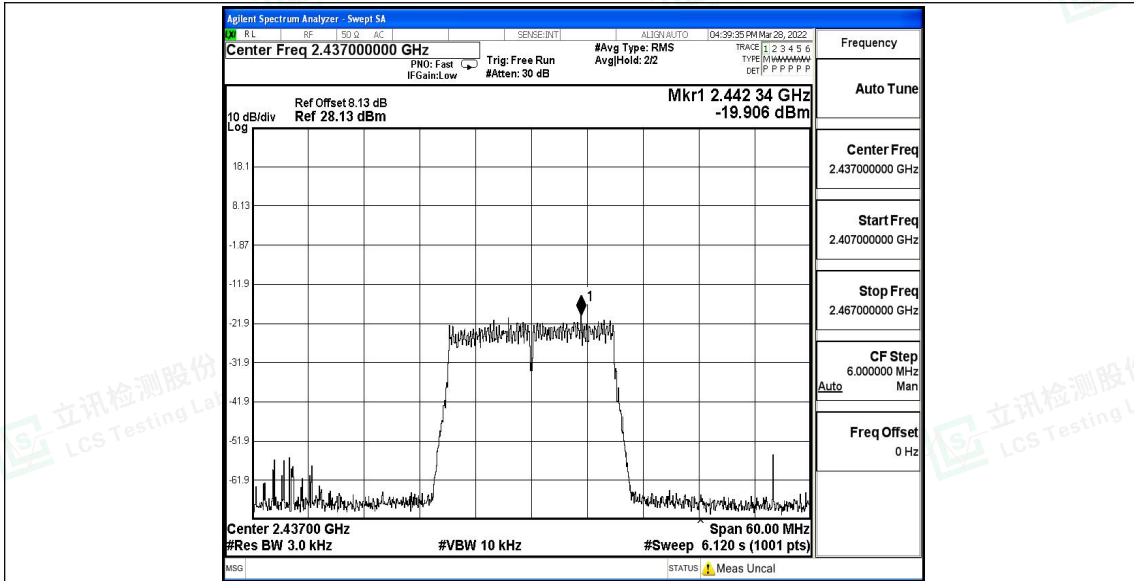


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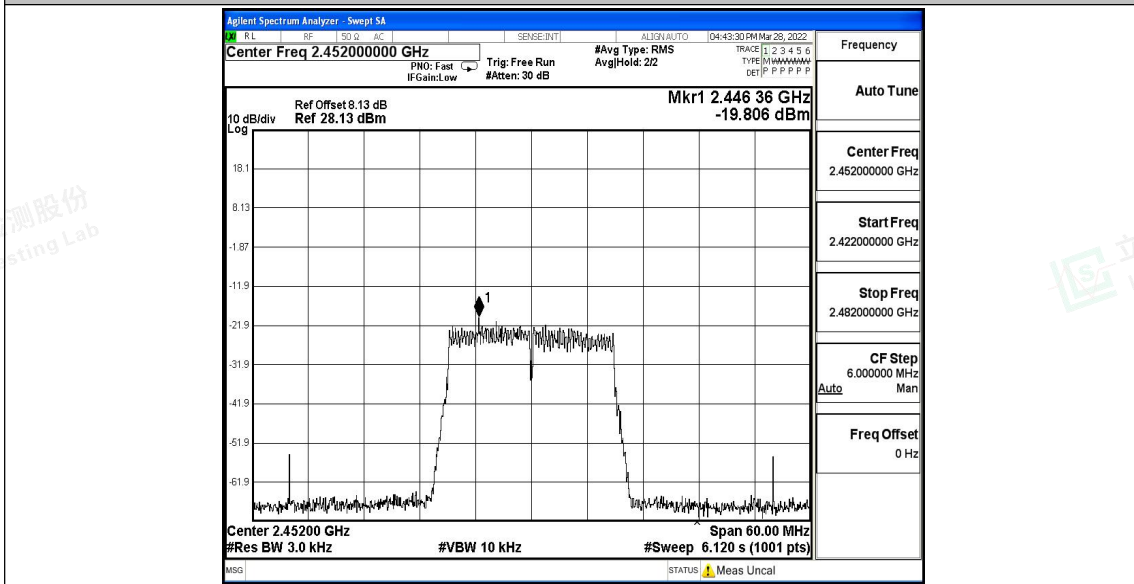
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_2452



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A.4 Band edge measurements

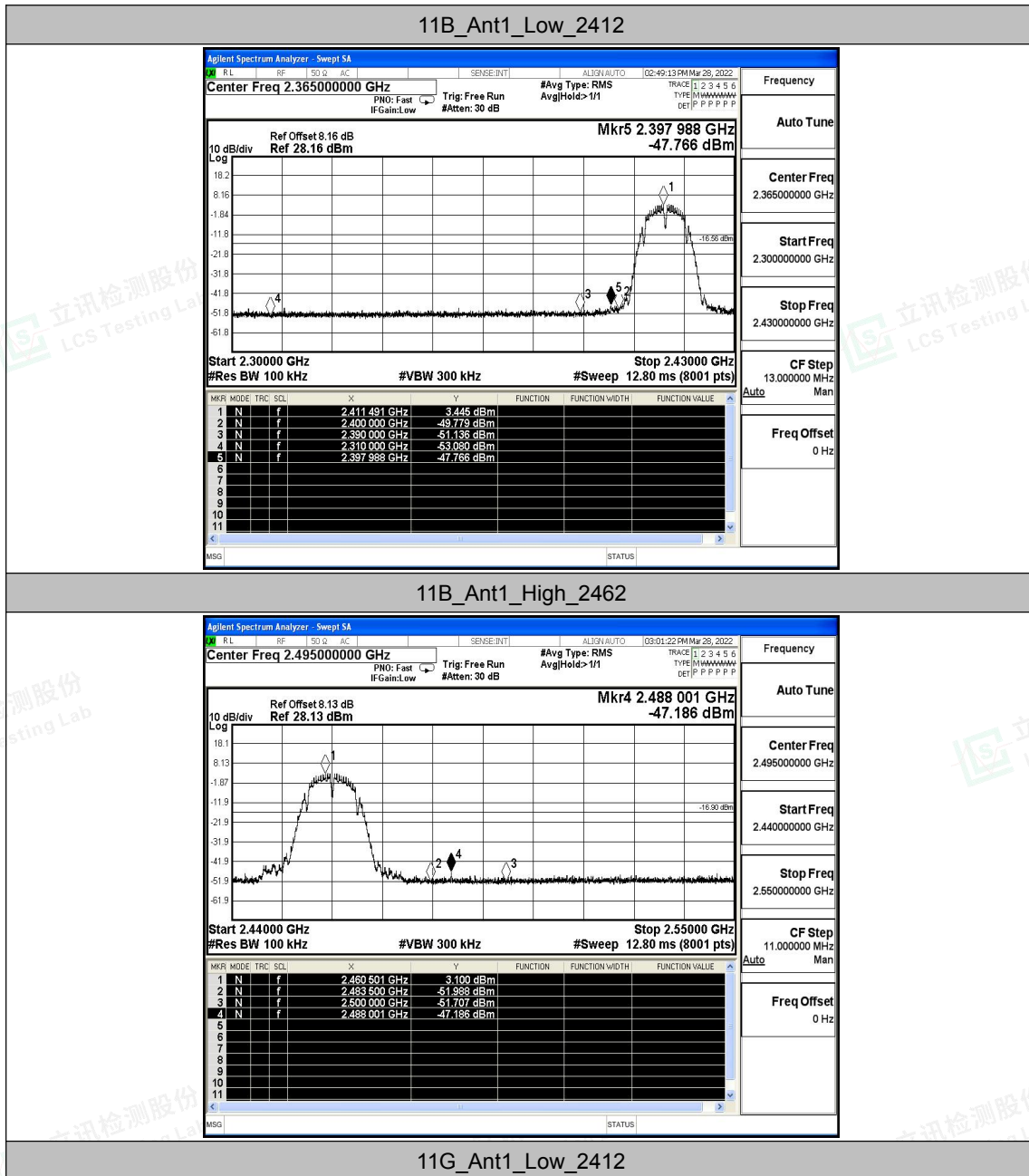
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.45	-47.77	≤-16.56	PASS
		High	2462	3.10	-47.19	≤-16.9	PASS
11G	Ant1	Low	2412	-4.93	-48.33	≤-24.93	PASS
		High	2462	-4.62	-47.33	≤-24.62	PASS
11N20SISO	Ant1	Low	2412	-5.71	-48.47	≤-25.71	PASS
		High	2462	-5.38	-47.06	≤-25.38	PASS
11N40SISO	Ant1	Low	2422	-5.38	-48.46	≤-25.38	PASS
		High	2452	-6.13	-47.89	≤-26.13	PASS





Test Graphs

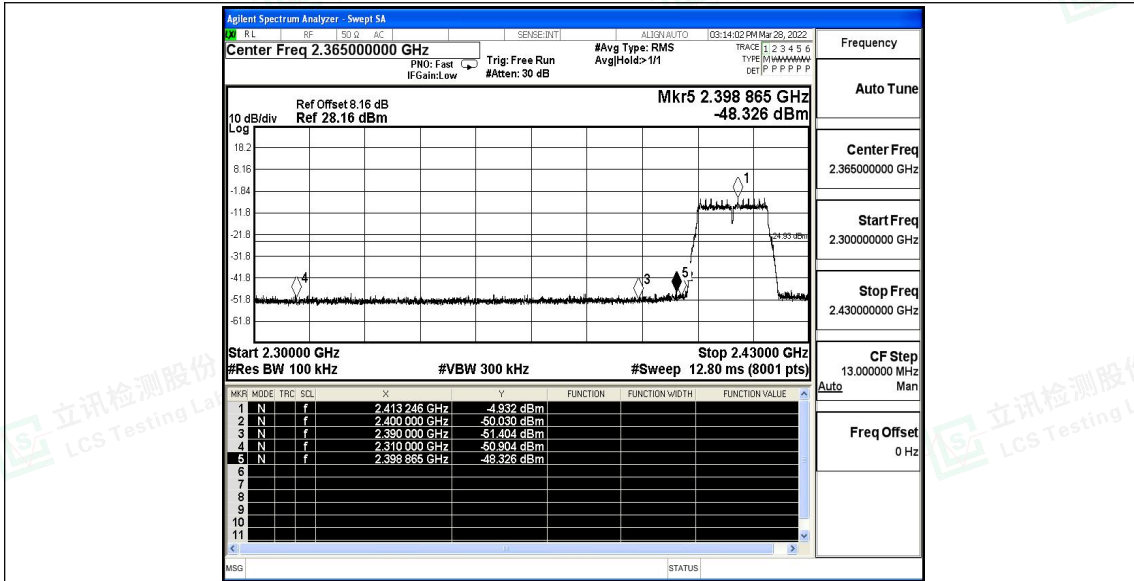


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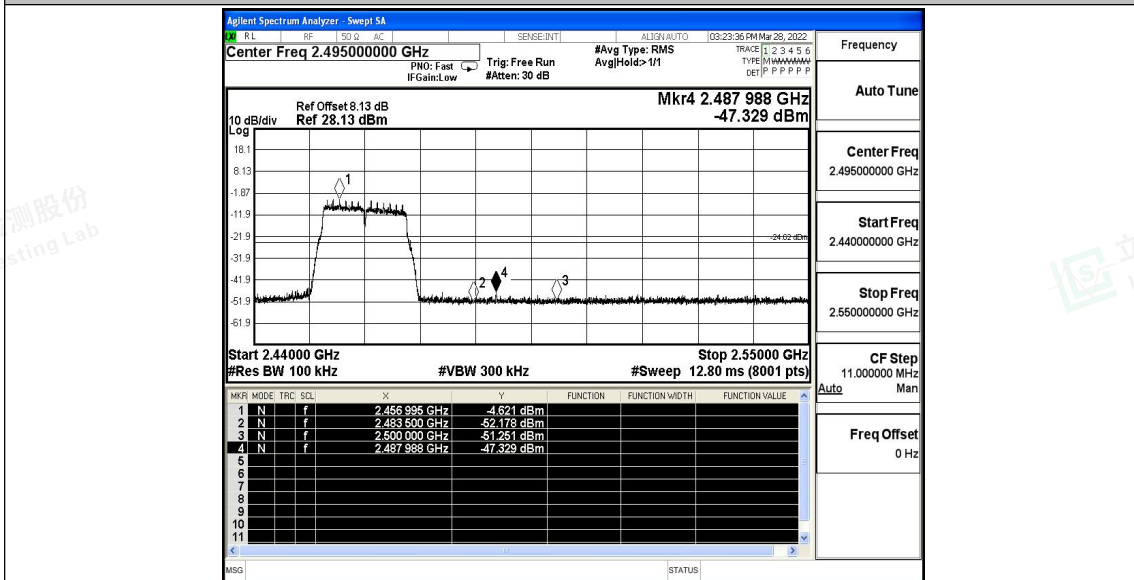
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

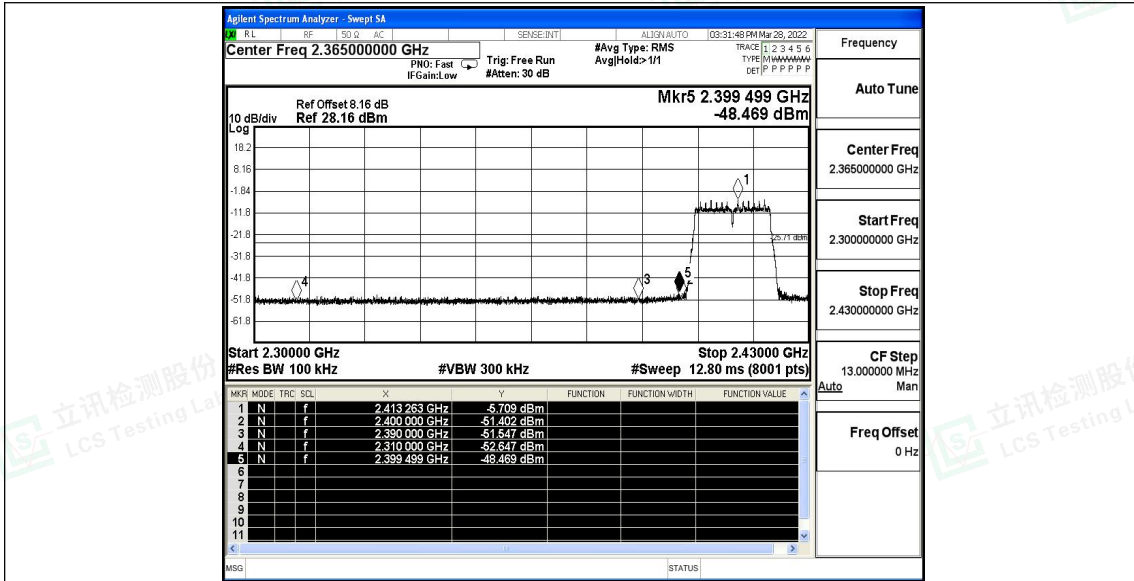


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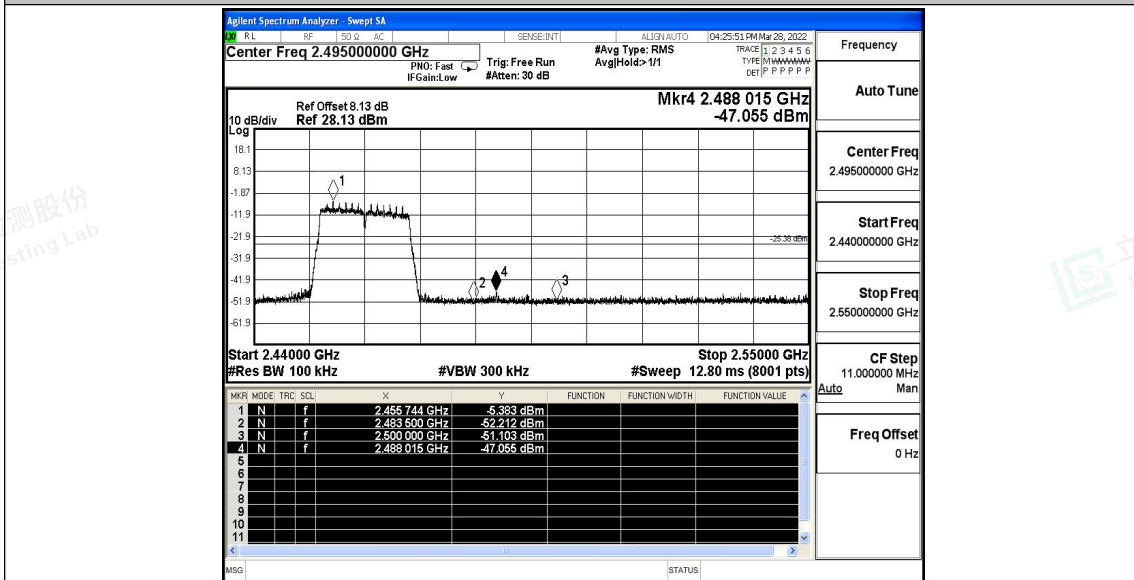
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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

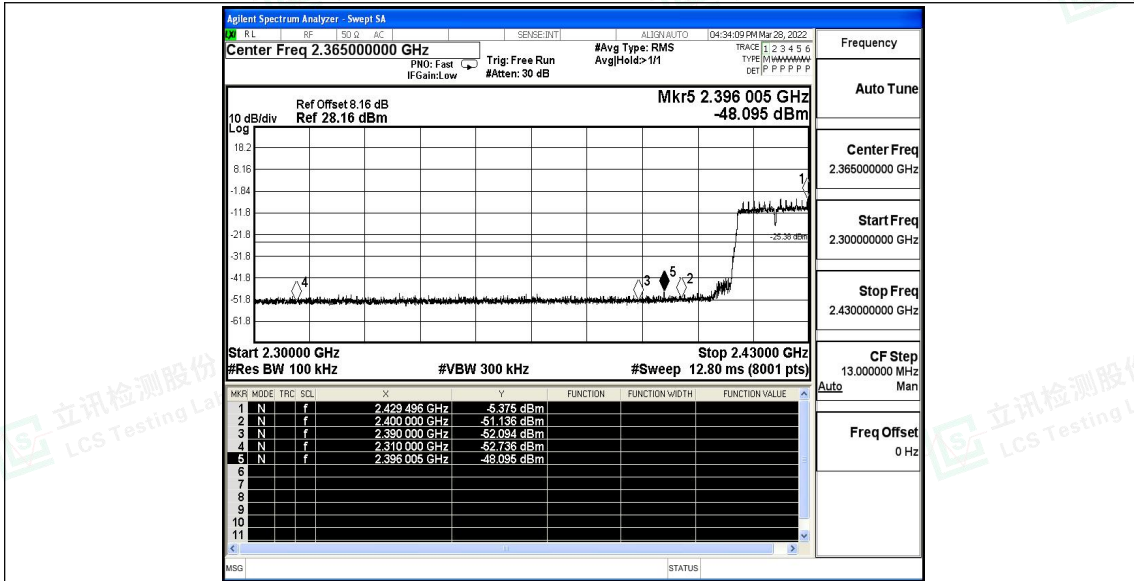


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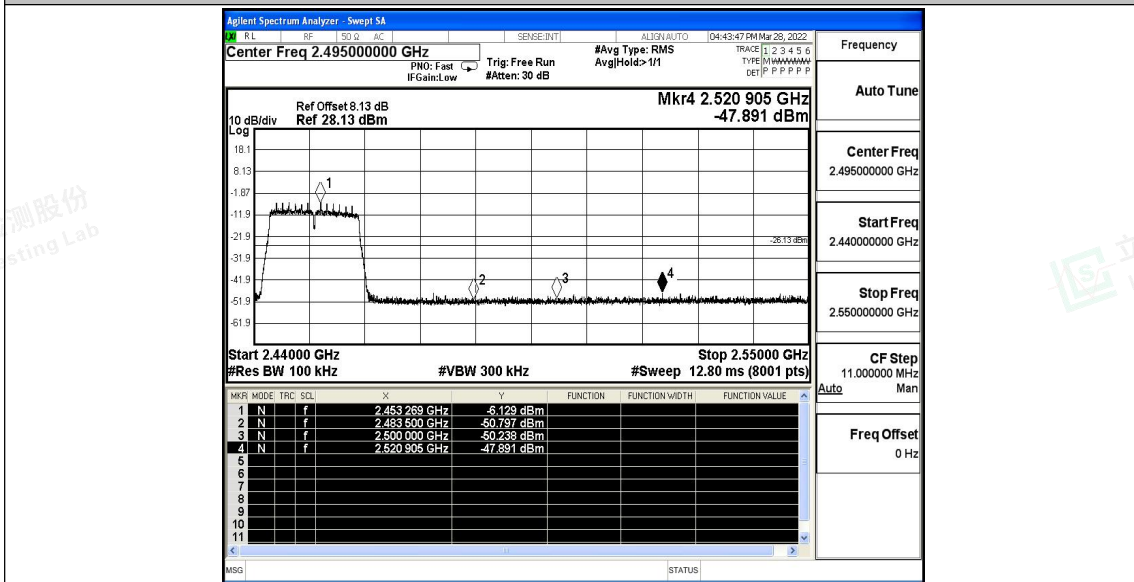
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11N40SISO_Ant1_High_2452



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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	3.34	3.34	---	PASS
			30~1000	3.34	-61.24	≤-16.66	PASS
			1000~26500	3.34	-45.63	≤-16.66	PASS
		2437	Reference	3.29	3.29	---	PASS
			30~1000	3.29	-60.85	≤-16.71	PASS
			1000~26500	3.29	-46.76	≤-16.71	PASS
		2462	Reference	3.08	3.08	---	PASS
			30~1000	3.08	-61.31	≤-16.92	PASS
			1000~26500	3.08	-46.33	≤-16.92	PASS
11G	Ant1	2412	Reference	-5.20	-5.20	---	PASS
			30~1000	-5.20	-59.96	≤-25.2	PASS
			1000~26500	-5.20	-46.02	≤-25.2	PASS
		2437	Reference	-4.71	-4.71	---	PASS
			30~1000	-4.71	-61.77	≤-24.71	PASS
			1000~26500	-4.71	-46.56	≤-24.71	PASS
		2462	Reference	-4.35	-4.35	---	PASS
			30~1000	-4.35	-60.79	≤-24.35	PASS
			1000~26500	-4.35	-46.72	≤-24.35	PASS
11N20SISO	Ant1	2412	Reference	-5.69	-5.69	---	PASS
			30~1000	-5.69	-60.58	≤-25.69	PASS
			1000~26500	-5.69	-45.73	≤-25.69	PASS
		2437	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-60.91	≤-25.47	PASS
			1000~26500	-5.47	-46.13	≤-25.47	PASS
		2462	Reference	-5.06	-5.06	---	PASS
			30~1000	-5.06	-61.18	≤-25.06	PASS
			1000~26500	-5.06	-45.76	≤-25.06	PASS
11N40SISO	Ant1	2422	Reference	-5.44	-5.44	---	PASS
			30~1000	-5.44	-60.96	≤-25.44	PASS
			1000~26500	-5.44	-46.34	≤-25.44	PASS
		2437	Reference	-5.56	-5.56	---	PASS
			30~1000	-5.56	-60.97	≤-25.56	PASS
			1000~26500	-5.56	-46.3	≤-25.56	PASS
		2452	Reference	-5.70	-5.70	---	PASS



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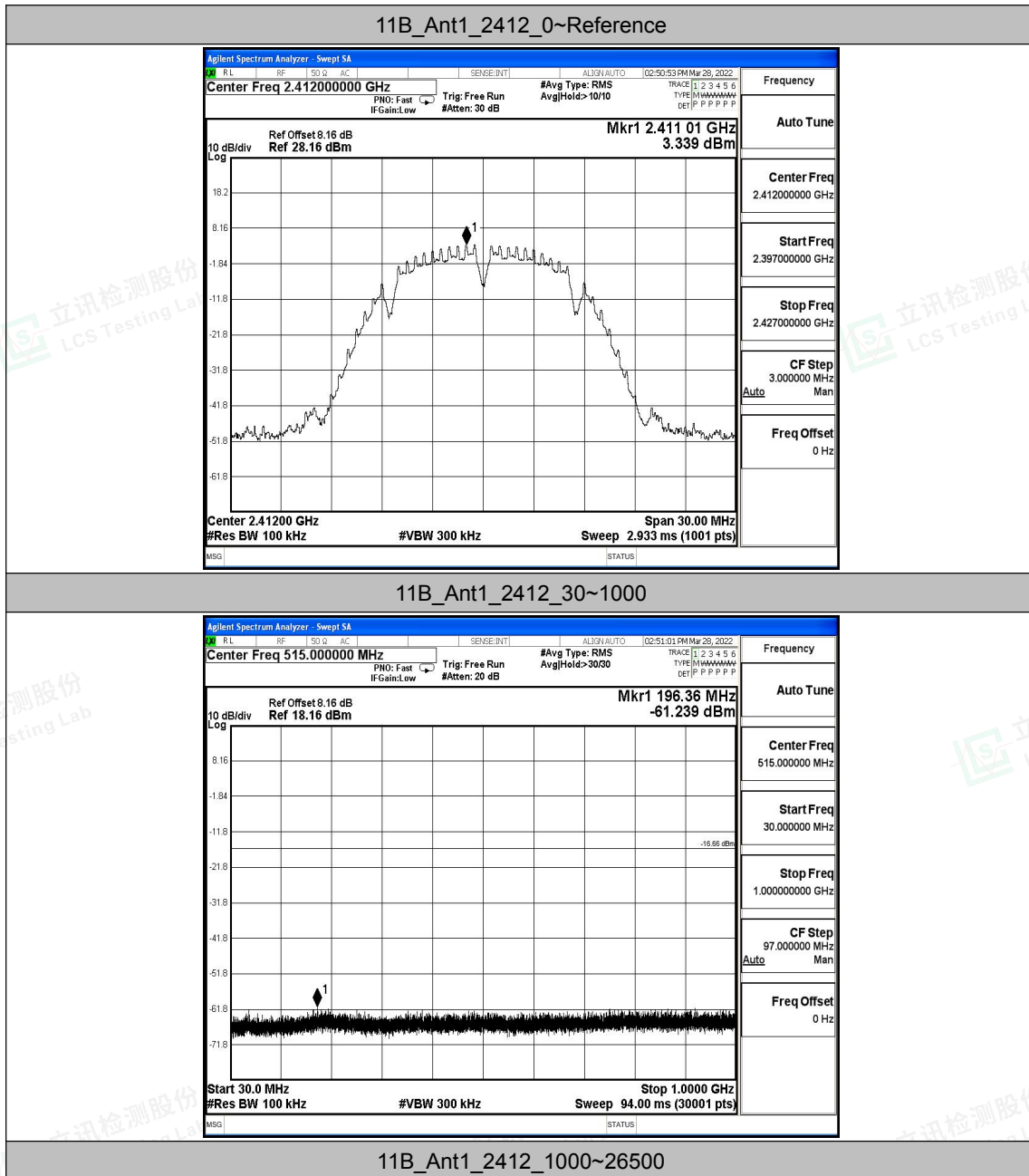
			30~1000	-5.70	-60.99	≤-25.7	PASS
			1000~26500	-5.70	-46.33	≤-25.7	PASS



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Test Graphs



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