



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Kids Smartwatch

Test Model: XGO3

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li huan





C.1 6dB Bandwidth

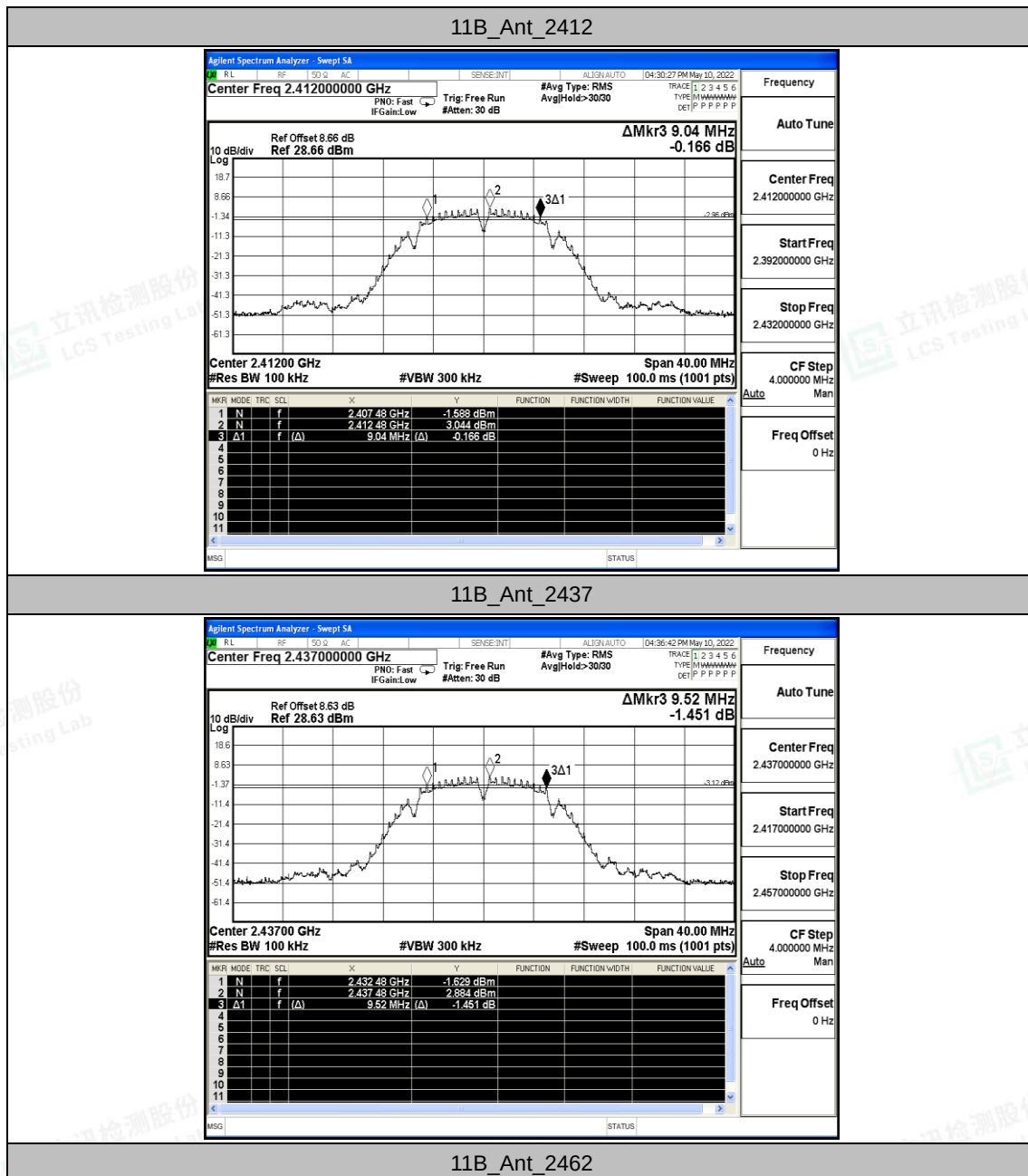
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	9.040	2407.480	2416.520	0.5	PASS
		2437	9.520	2432.480	2442.000	0.5	PASS
		2462	9.080	2457.440	2466.520	0.5	PASS
11G	Ant	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant	2422	35.760	2404.080	2439.840	0.5	PASS
		2437	35.840	2419.080	2454.920	0.5	PASS
		2452	36.000	2434.080	2470.080	0.5	PASS





Test Graphs

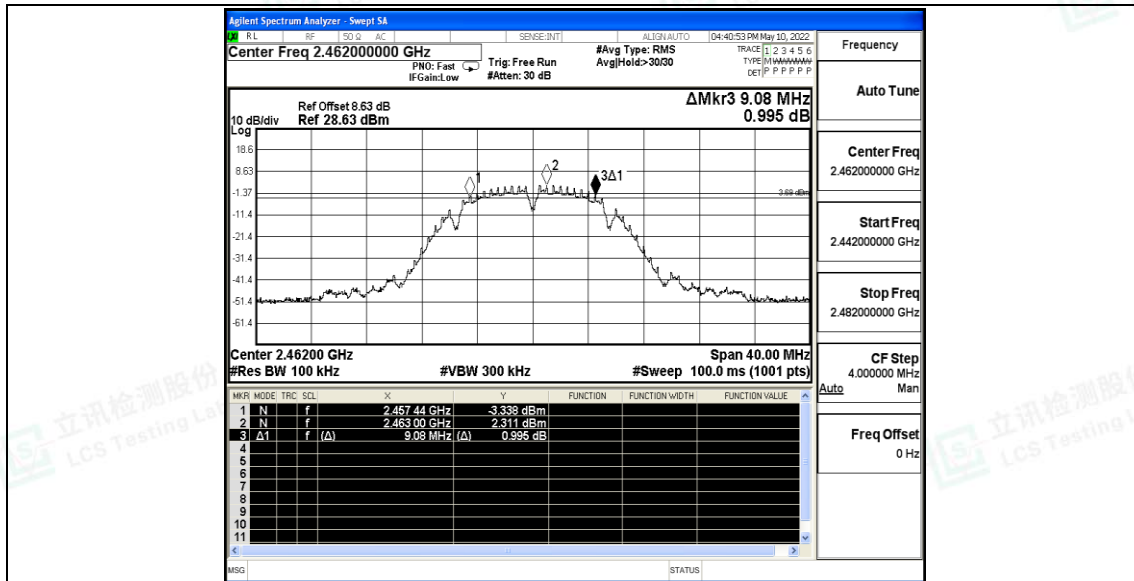


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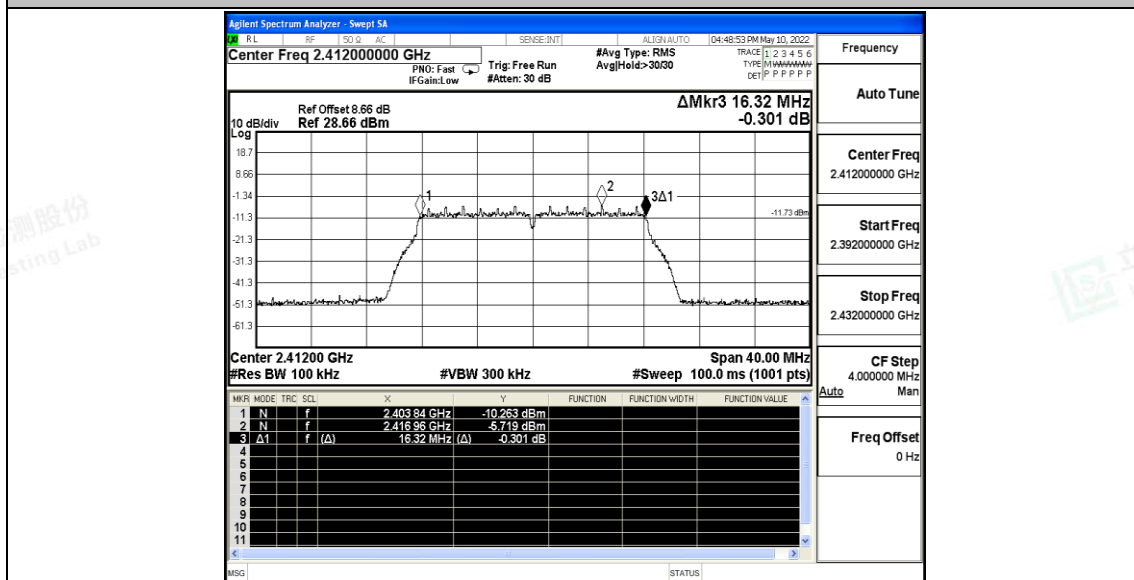
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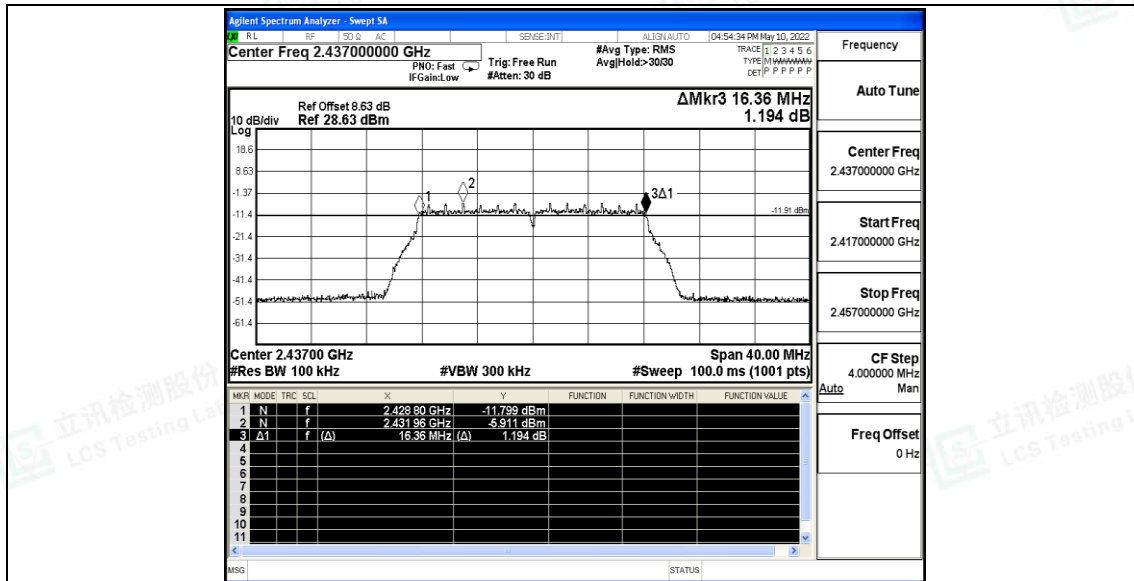


11G_Ant_2412

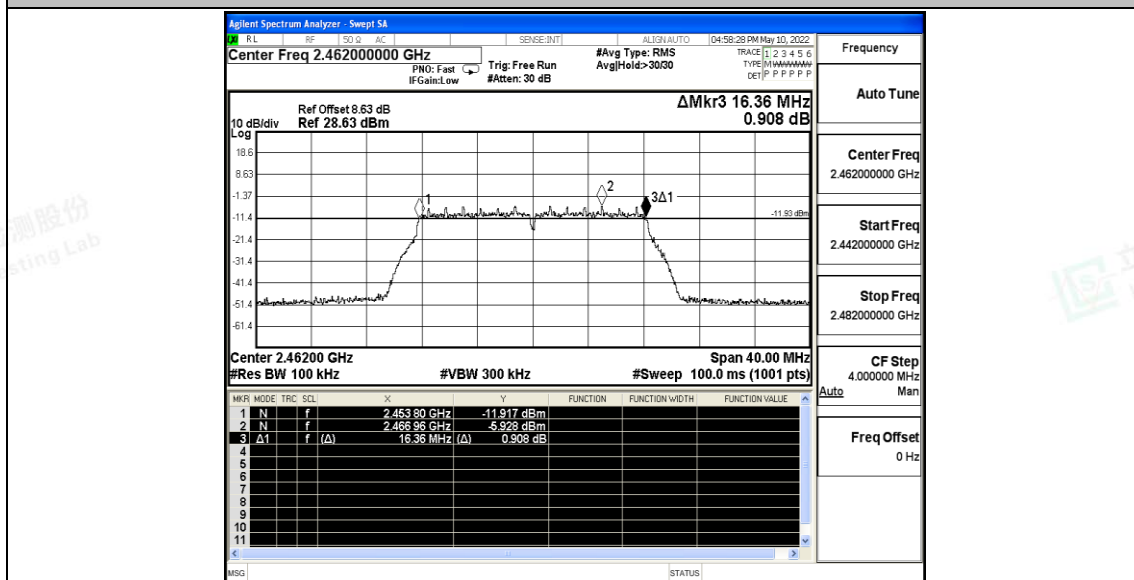


11G_Ant_2437



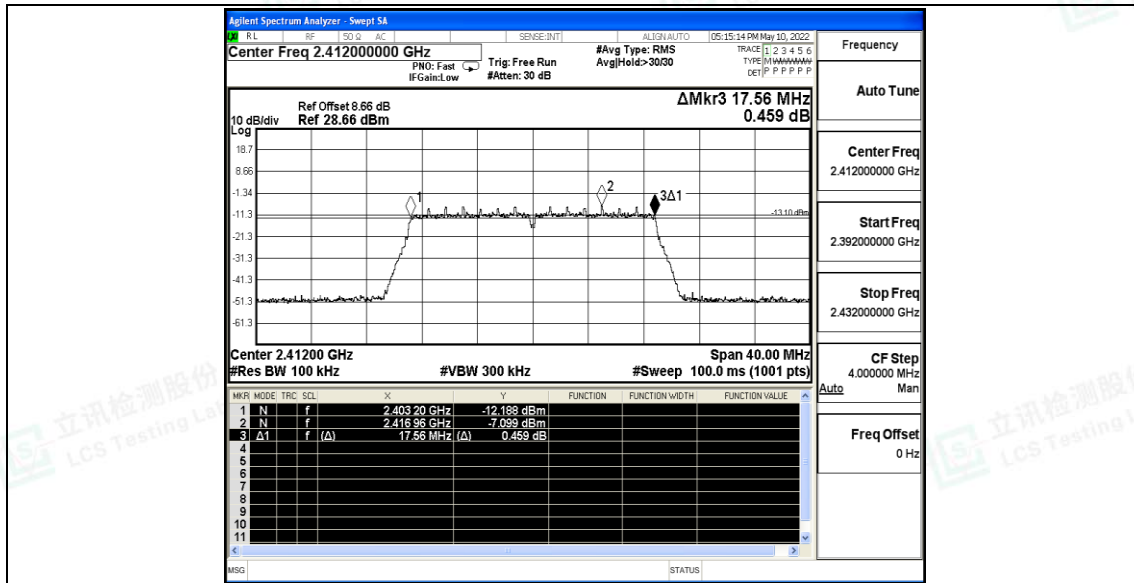


11G_Ant_2462

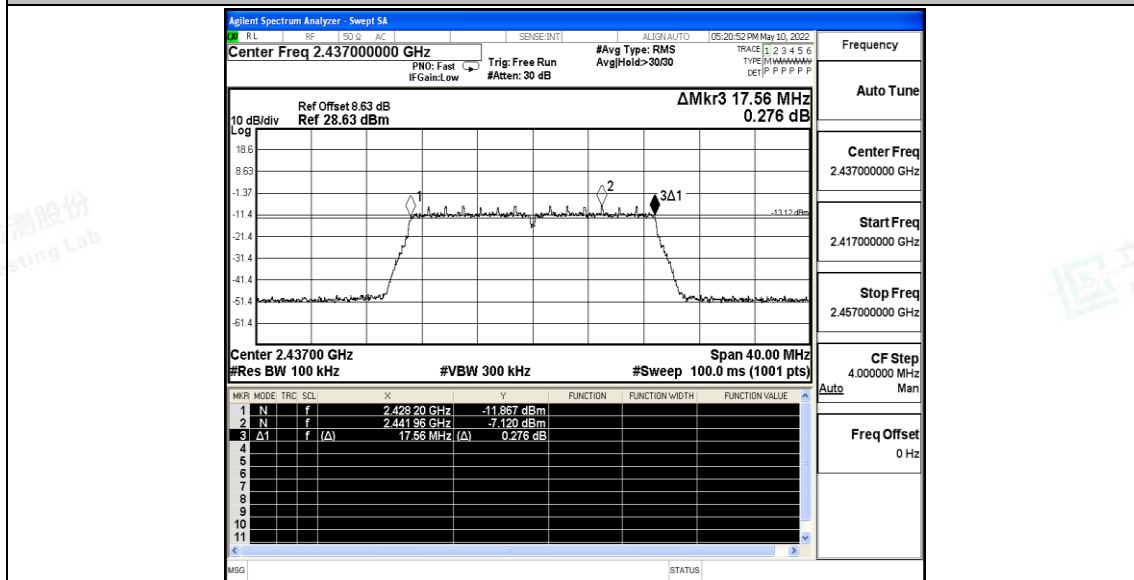


11N20SISO_Ant_2412



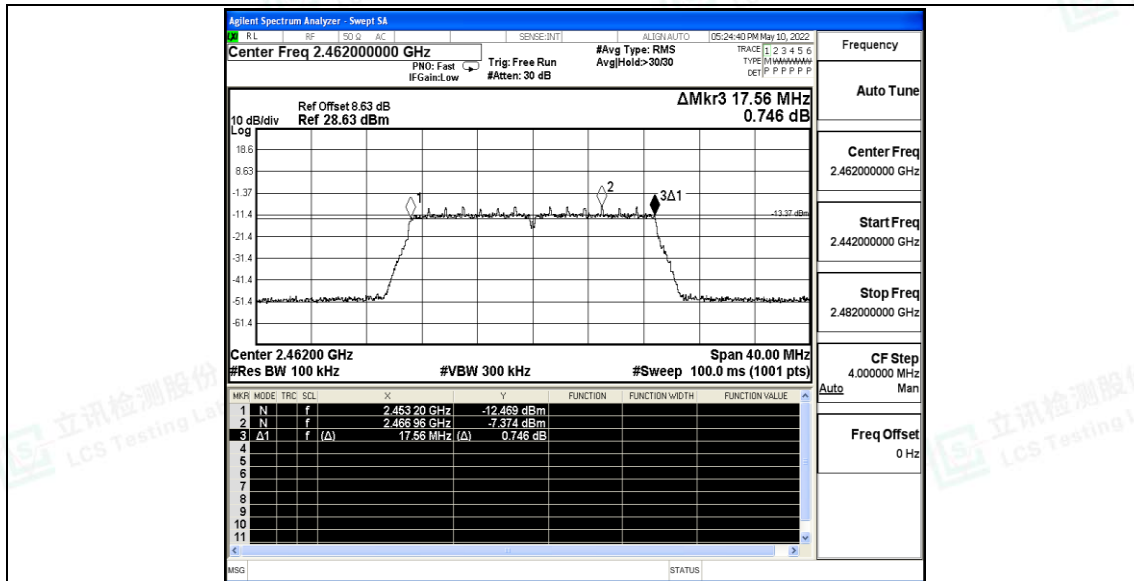


11N20SISO_Ant_2437

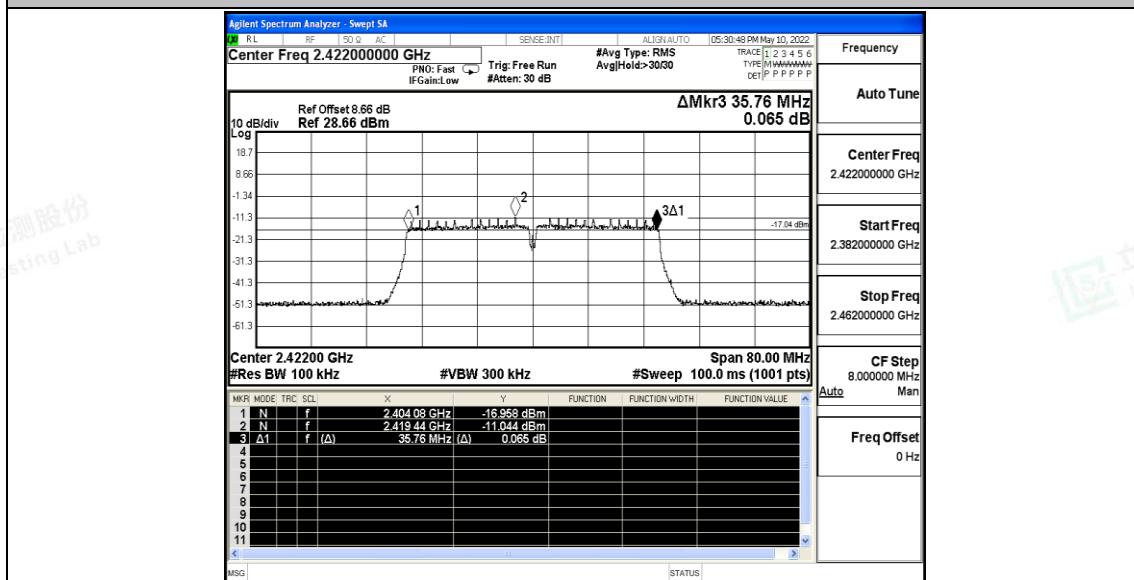


11N20SISO_Ant_2462



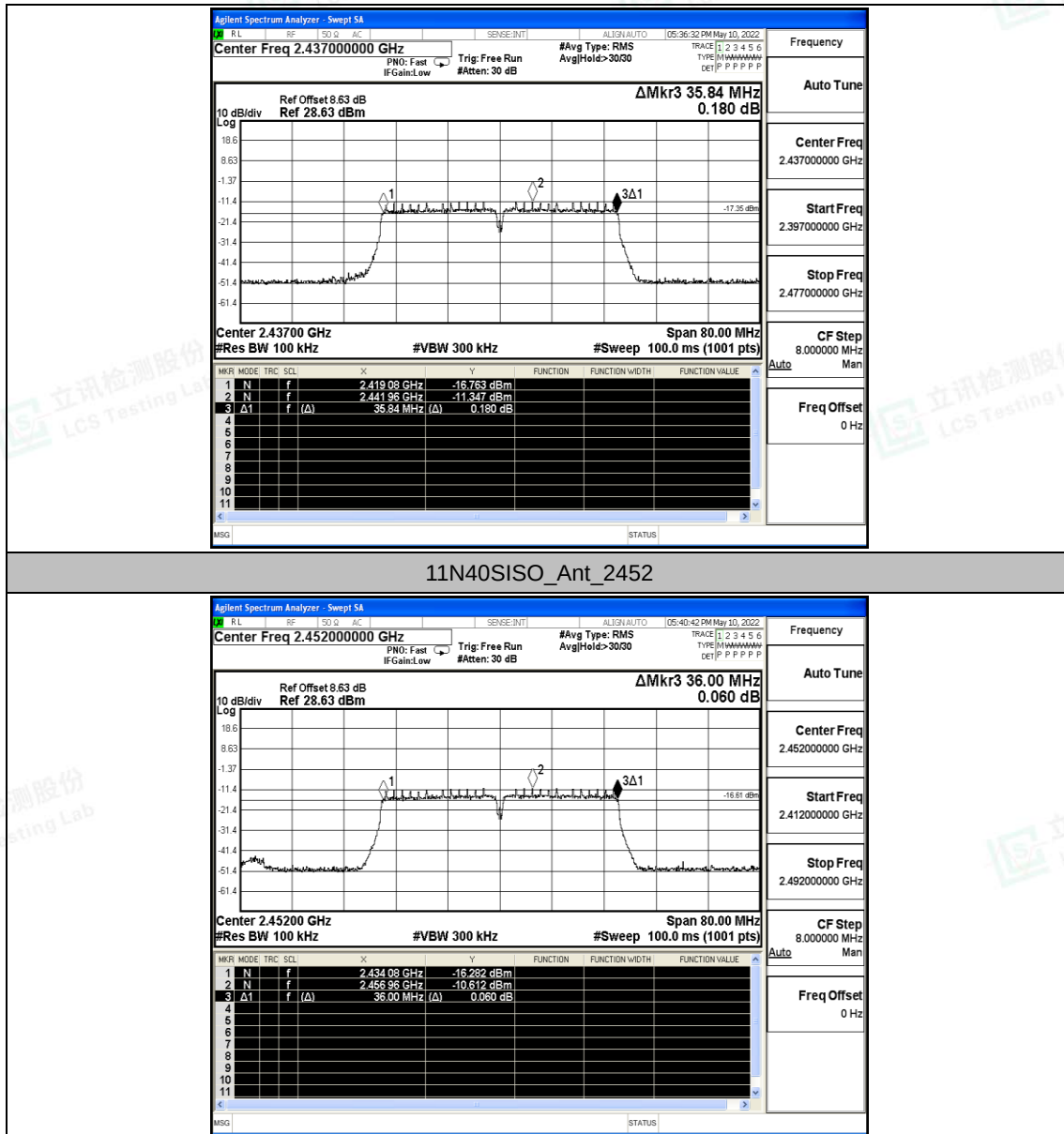


11N40ISO_Ant_2422



11N40ISO_Ant_2437





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C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	2412	16.57	≤30.00	PASS
		2437	16.44	≤30.00	PASS
		2462	16.05	≤30.00	PASS
11G	Ant	2412	14.73	≤30.00	PASS
		2437	14.56	≤30.00	PASS
		2462	14.51	≤30.00	PASS
11N20SISO	Ant	2412	13.19	≤30.00	PASS
		2437	13.45	≤30.00	PASS
		2462	13.02	≤30.00	PASS
11N40SISO	Ant	2422	11.99	≤30.00	PASS
		2437	11.90	≤30.00	PASS
		2452	12.73	≤30.00	PASS





C.3 Maximum power spectral density

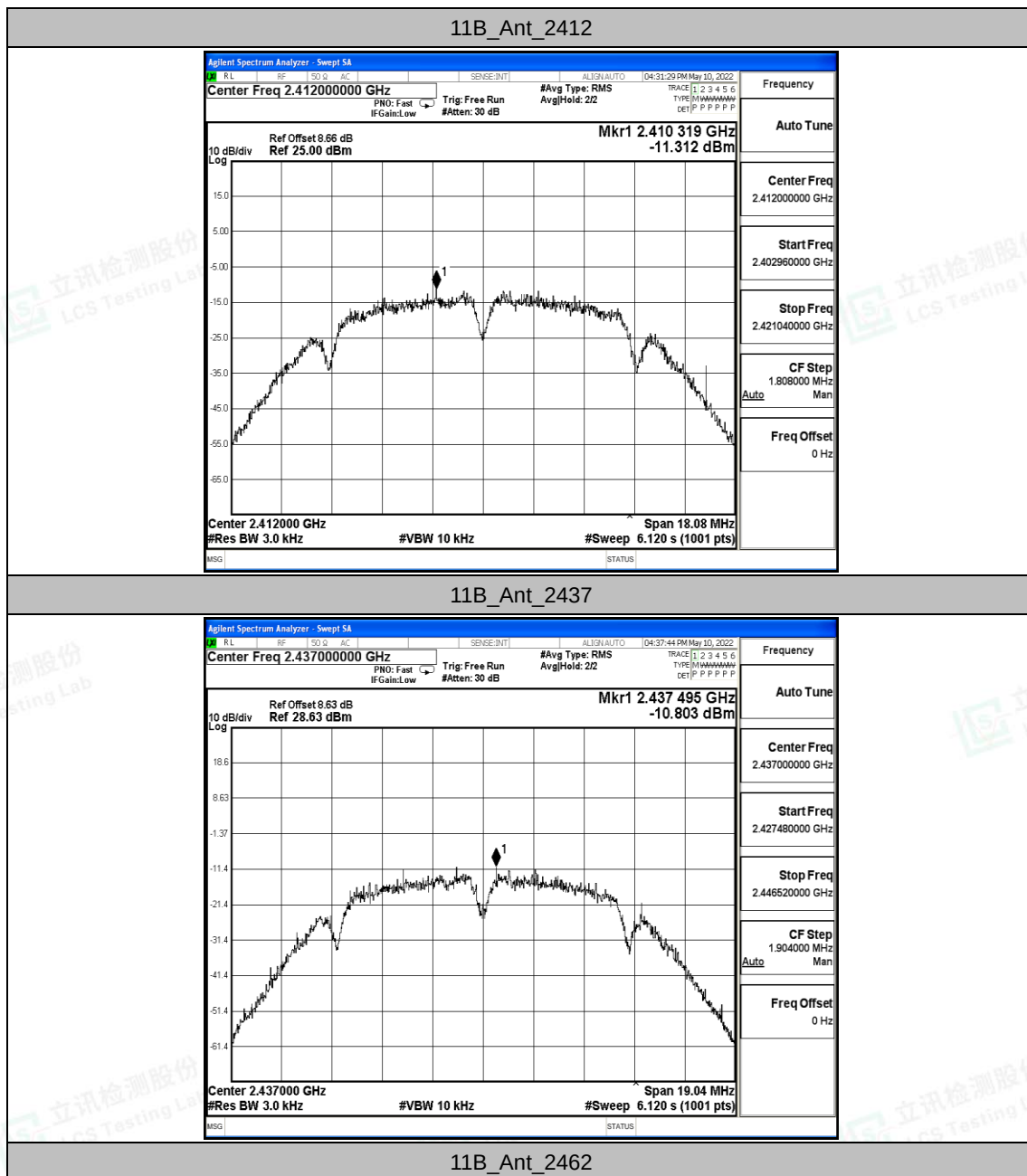
Test Result

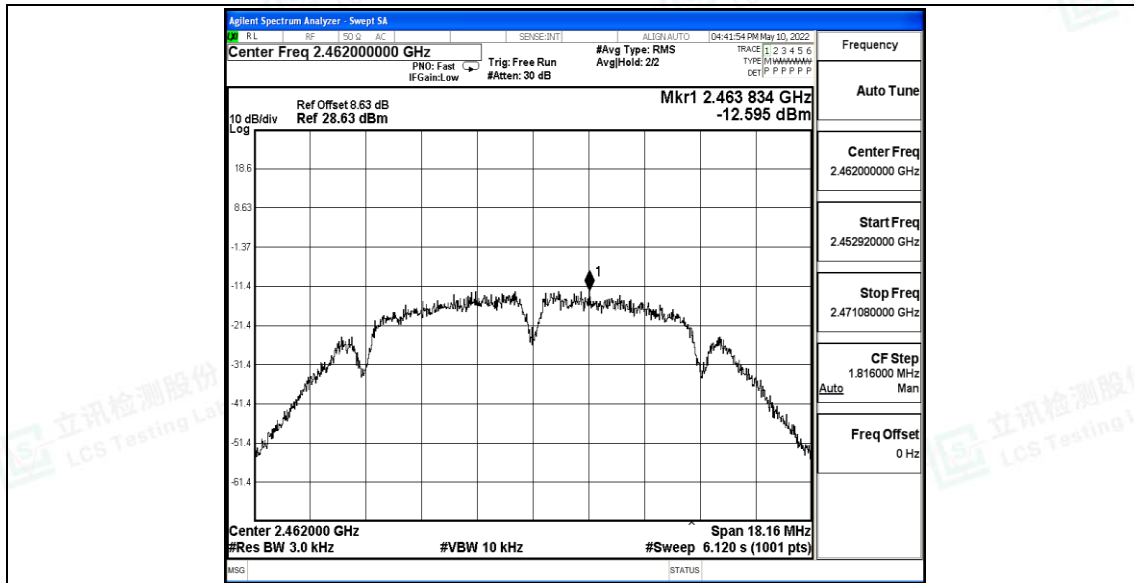
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant	2412	-11.31	≤8.00	PASS
		2437	-10.8	≤8.00	PASS
		2462	-12.6	≤8.00	PASS
11G	Ant	2412	-19.63	≤8.00	PASS
		2437	-18.61	≤8.00	PASS
		2462	-19.88	≤8.00	PASS
11N20SISO	Ant	2412	-21.14	≤8.00	PASS
		2437	-21.92	≤8.00	PASS
		2462	-20.96	≤8.00	PASS
11N40SISO	Ant	2422	-25.65	≤8.00	PASS
		2437	-25.08	≤8.00	PASS
		2452	-24.6	≤8.00	PASS



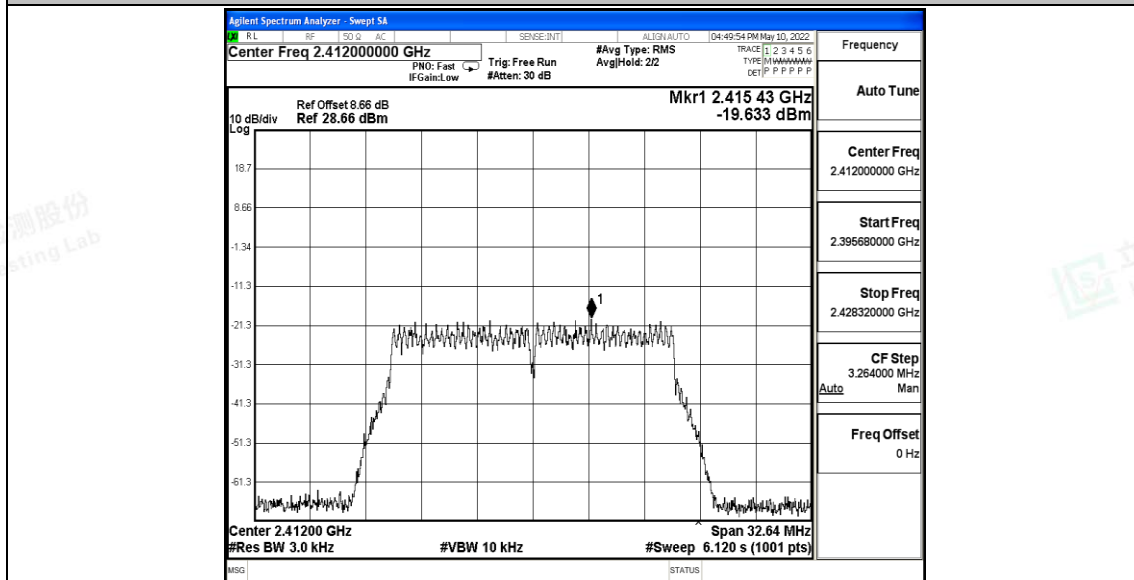


Test Graphs



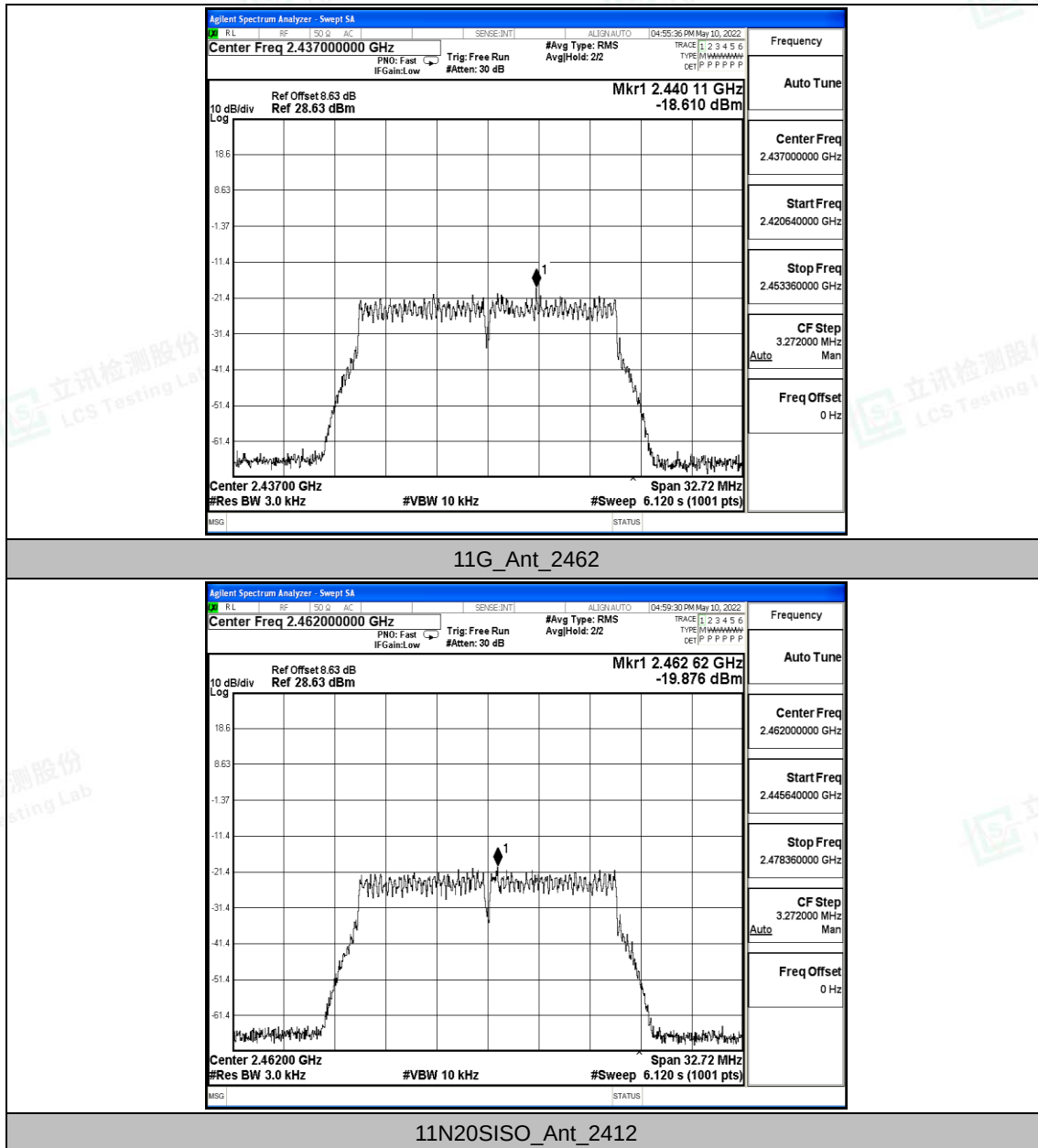


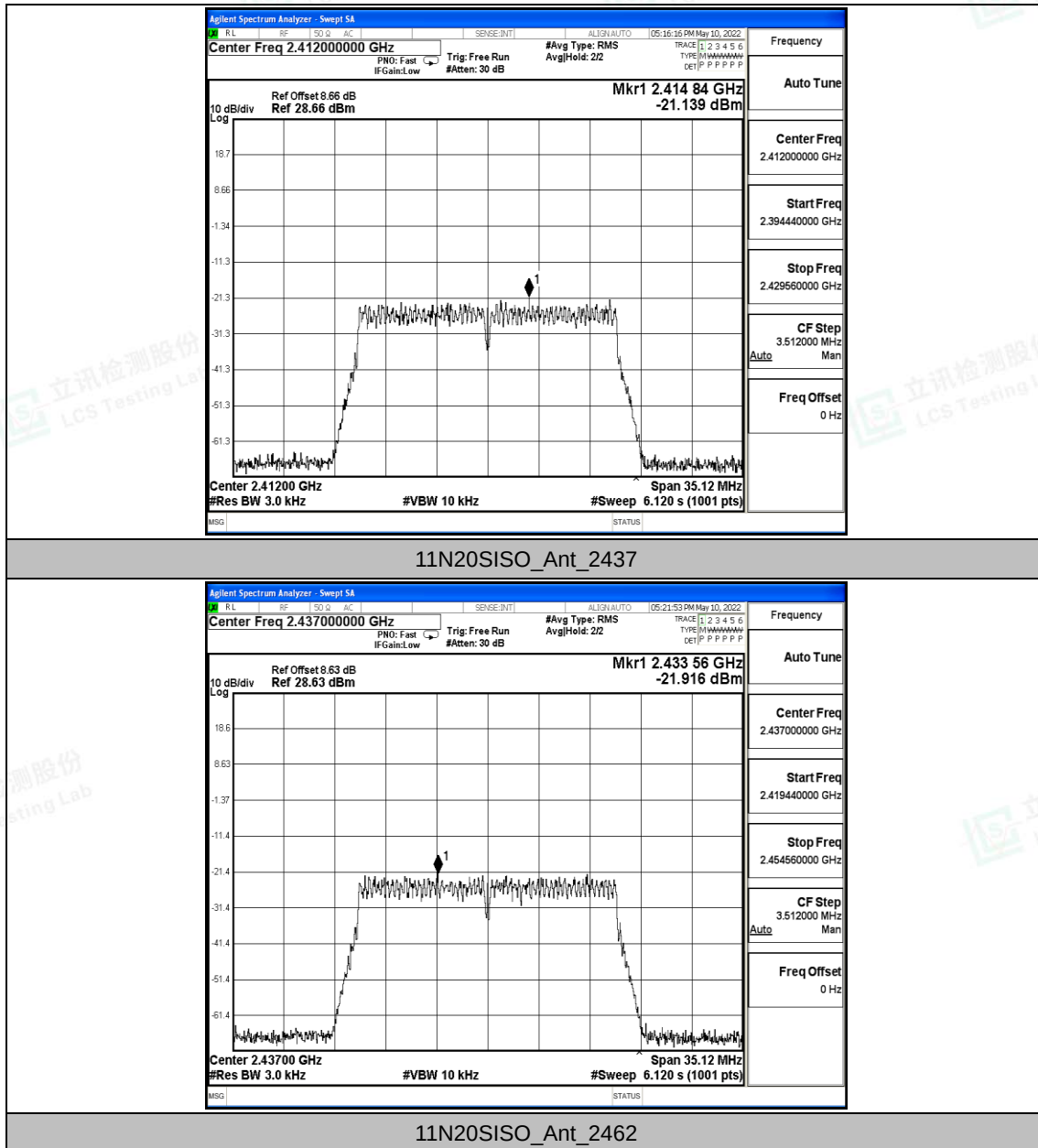
11G_Ant_2412

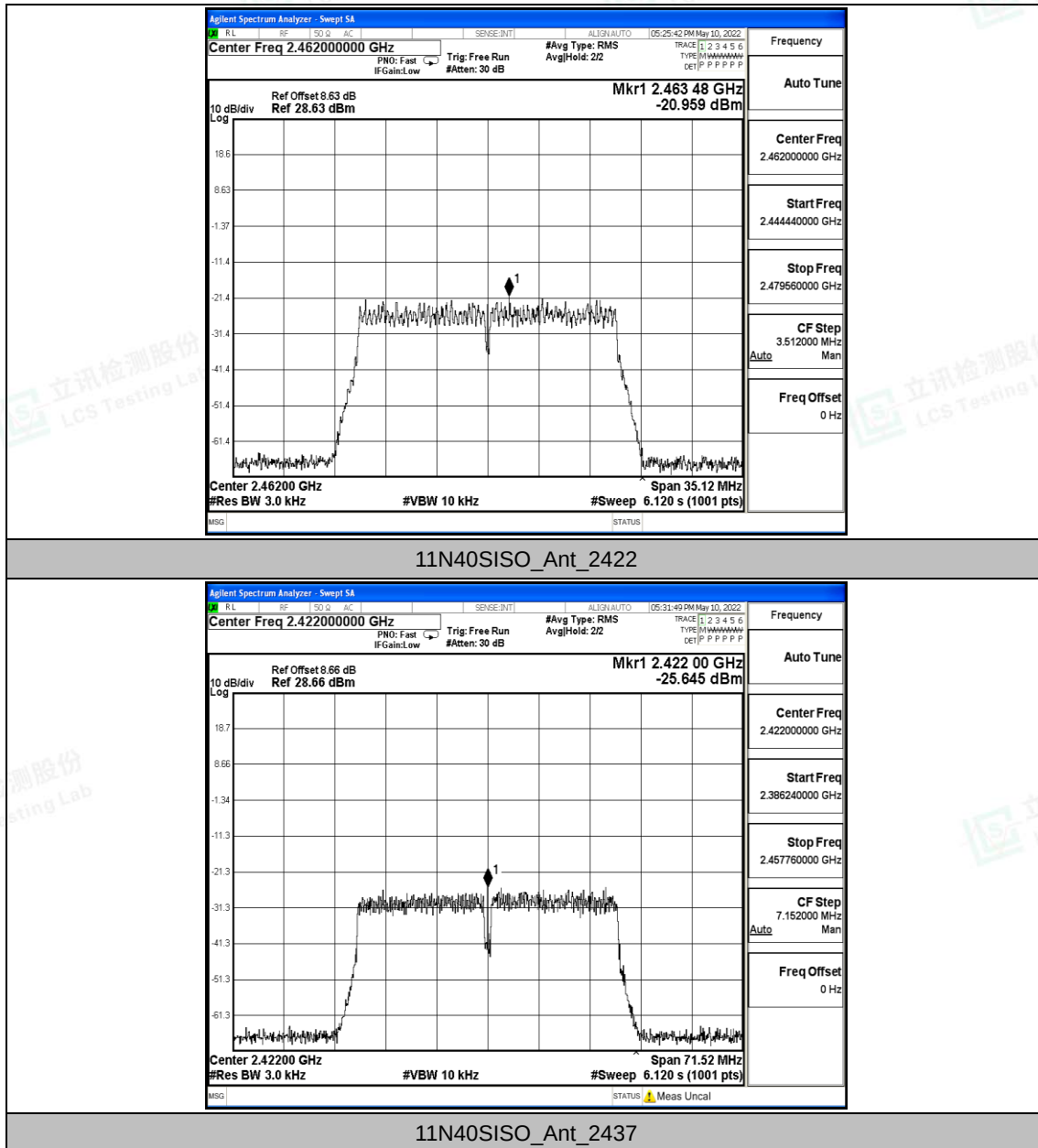


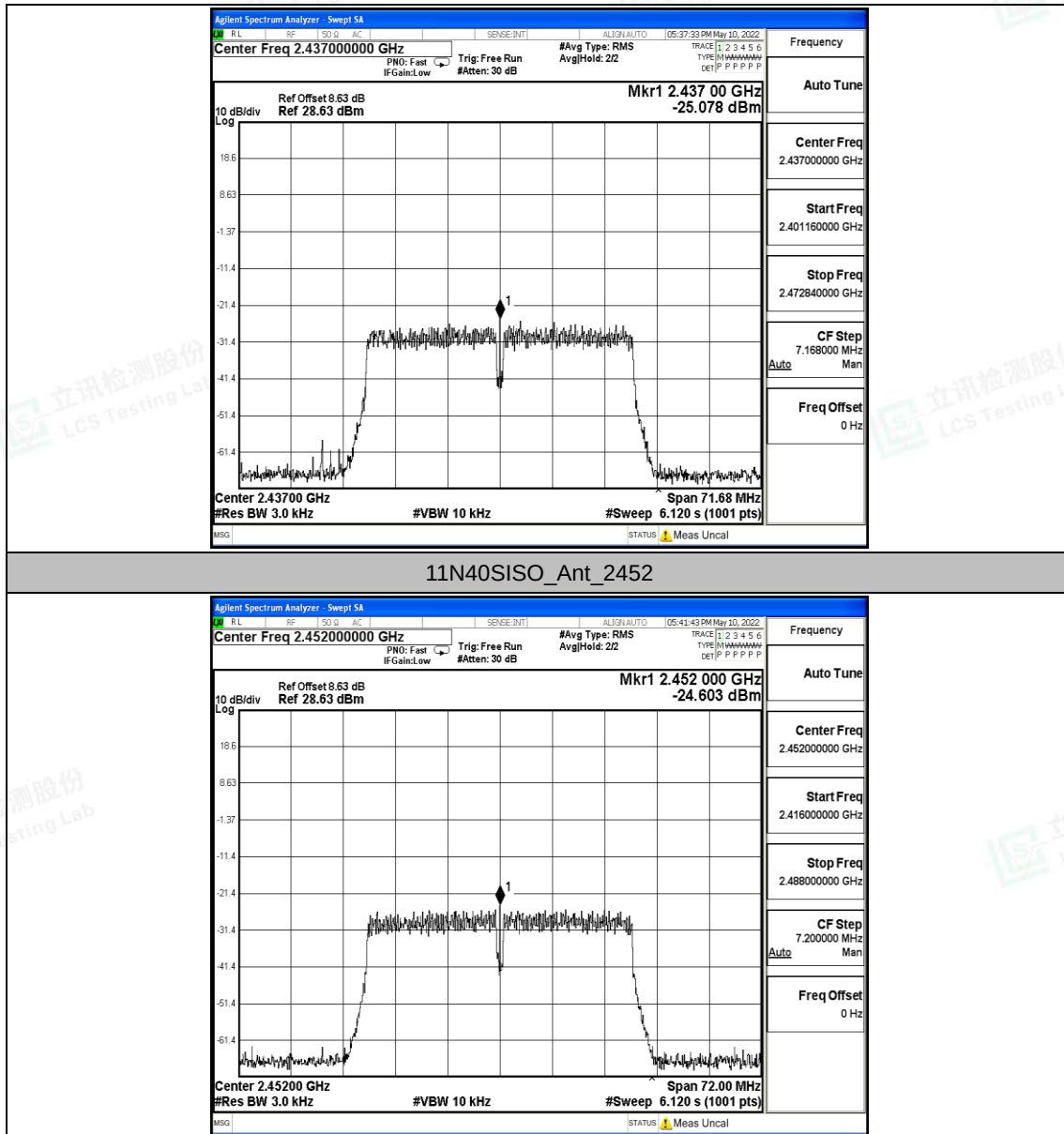
11G_Ant_2437













C.4 Band edge measurements

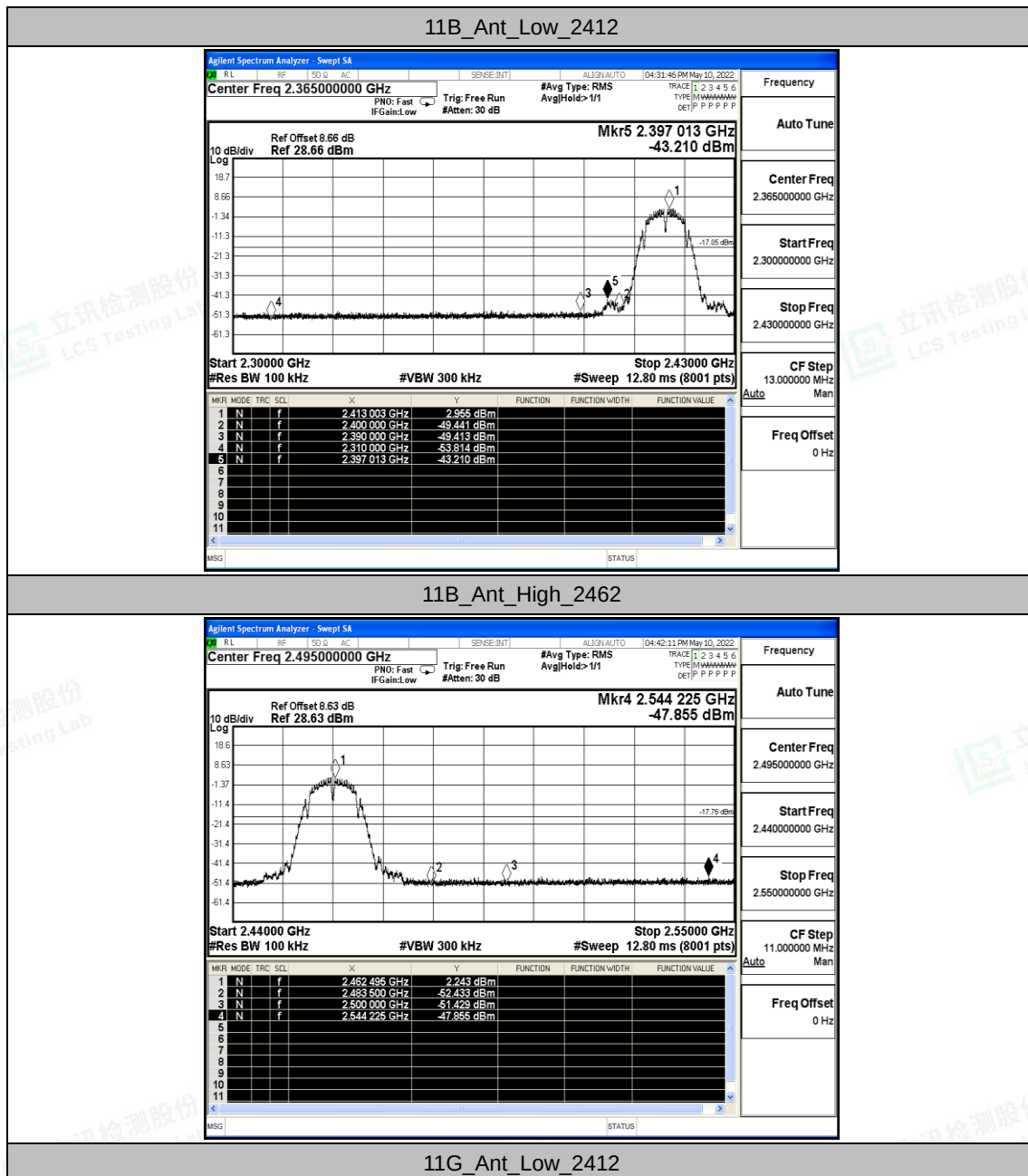
Test Result

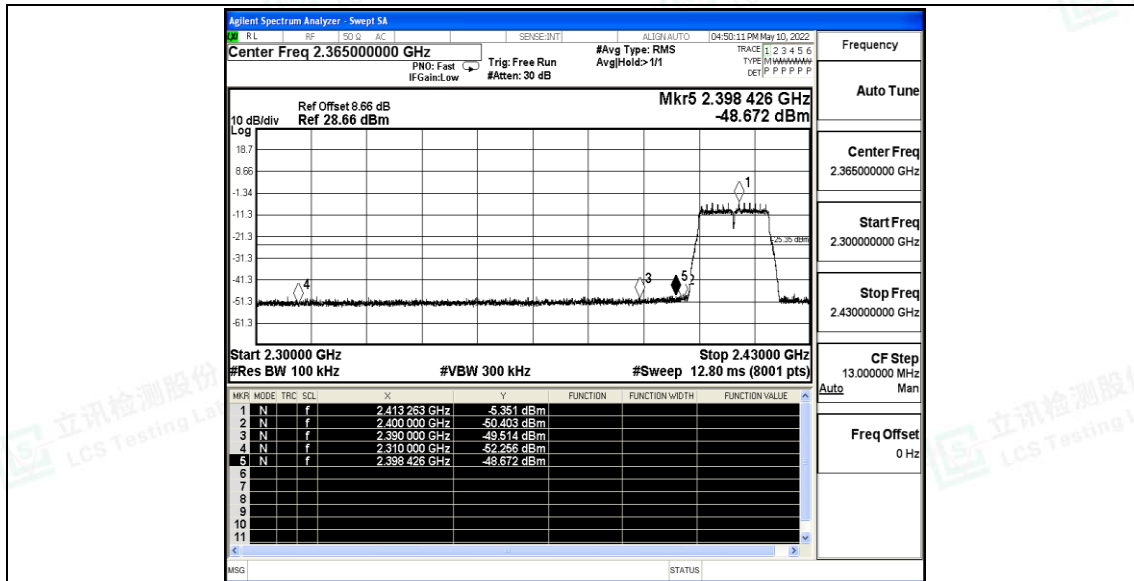
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	2.96	-43.21	≤-17.05	PASS
		High	2462	2.24	-47.86	≤-17.76	PASS
11G	Ant	Low	2412	-5.35	-48.67	≤-25.35	PASS
		High	2462	-5.90	-47.56	≤-25.9	PASS
11N20SISO	Ant	Low	2412	-6.97	-48.83	≤-26.97	PASS
		High	2462	-7.07	-47.54	≤-27.07	PASS
11N40SISO	Ant	Low	2422	-11.09	-47.71	≤-31.09	PASS
		High	2452	-10.56	-48.23	≤-30.56	PASS



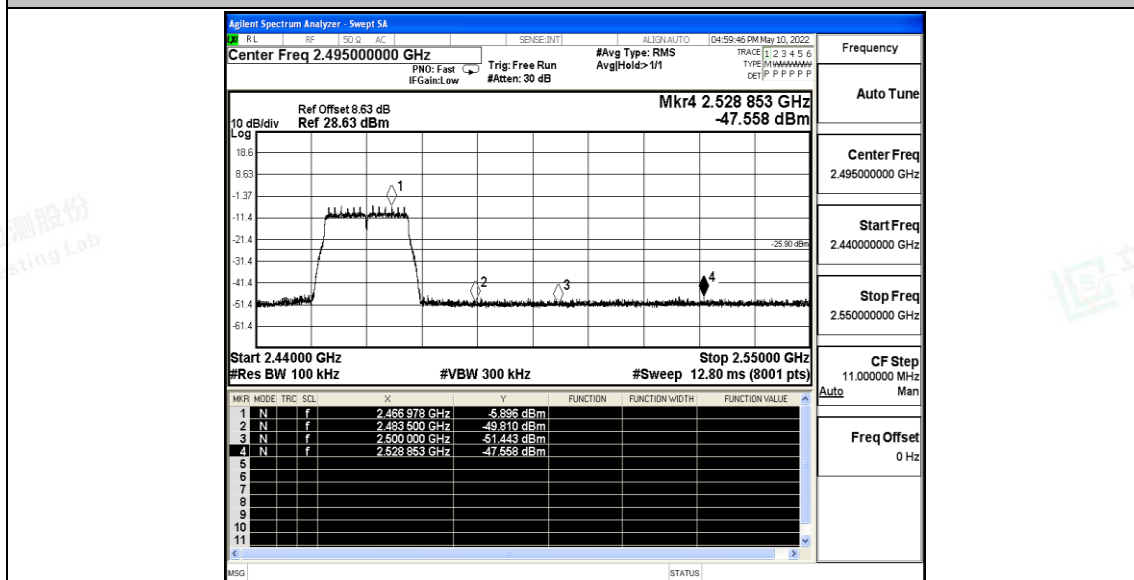


Test Graphs



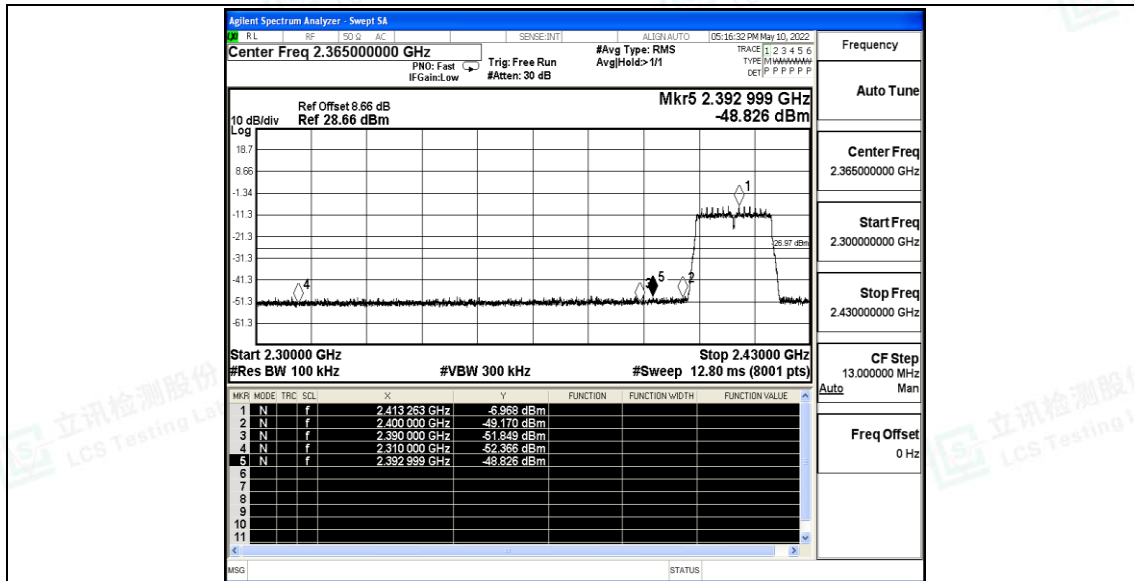


11G_Ant_High_2462

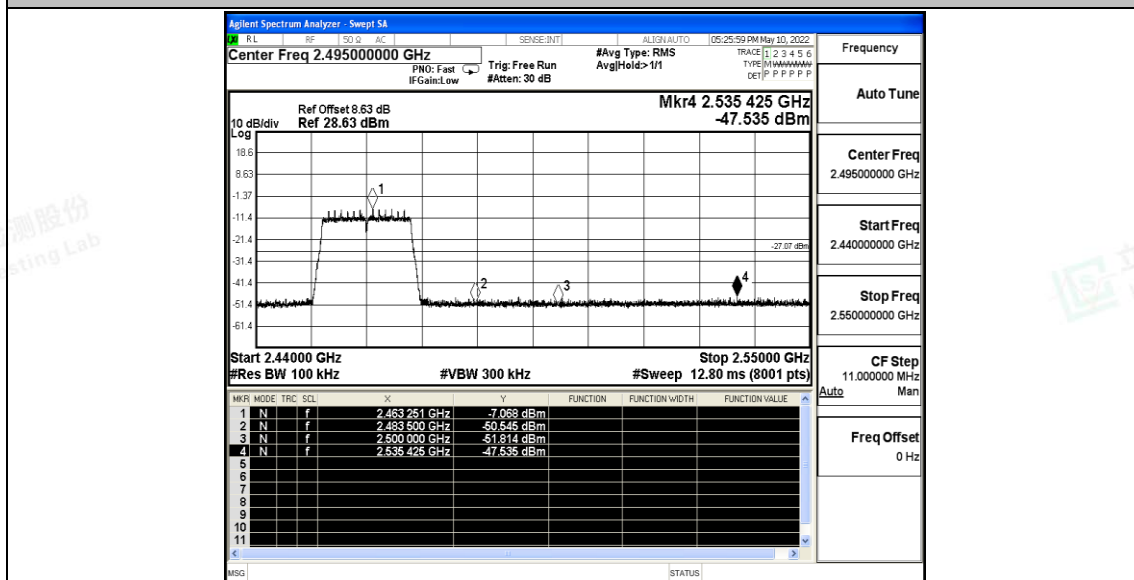


11N20SISO_Ant_Low_2412



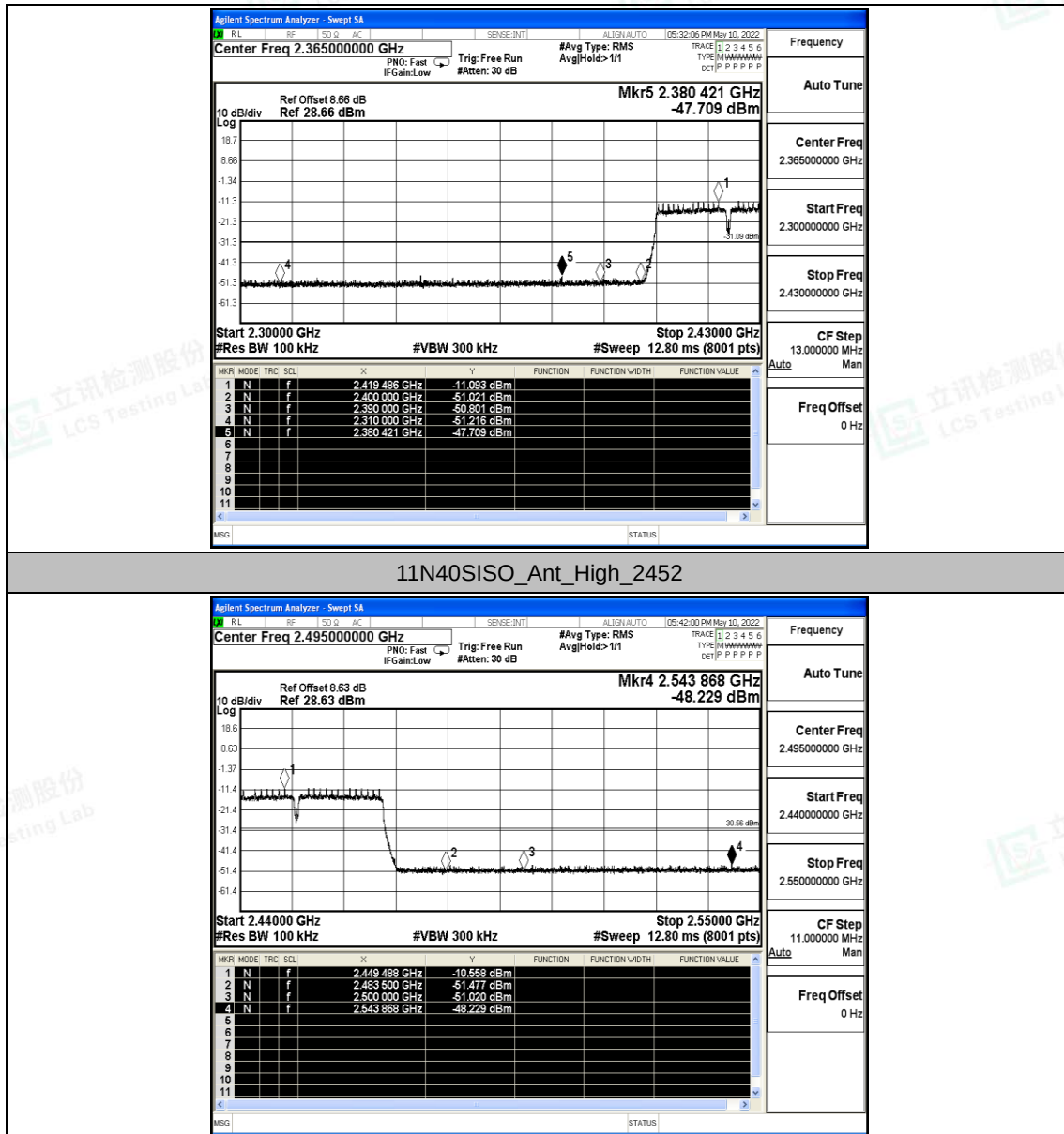


11N20SISO_Ant_High_2462



11N40SISO_Ant_Low_2422







C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	2.87	2.87	---	PASS
			30~1000	2.87	-45.11	≤-17.13	PASS
			1000~26500	2.87	-46.26	≤-17.13	PASS
		2437	Reference	2.82	2.82	---	PASS
			30~1000	2.82	-43.08	≤-17.18	PASS
			1000~26500	2.82	-45.85	≤-17.18	PASS
		2462	Reference	2.37	2.37	---	PASS
			30~1000	2.37	-60.27	≤-17.63	PASS
			1000~26500	2.37	-46.56	≤-17.63	PASS
11G	Ant	2412	Reference	-5.34	-5.34	---	PASS
			30~1000	-5.34	-56.04	≤-25.34	PASS
			1000~26500	-5.34	-45.74	≤-25.34	PASS
		2437	Reference	-6.01	-6.01	---	PASS
			30~1000	-6.01	-55.37	≤-26.01	PASS
			1000~26500	-6.01	-43.35	≤-26.01	PASS
		2462	Reference	-5.53	-5.53	---	PASS
			30~1000	-5.53	-51.77	≤-25.53	PASS
			1000~26500	-5.53	-45.94	≤-25.53	PASS
11N20SISO	Ant	2412	Reference	-6.94	-6.94	---	PASS
			30~1000	-6.94	-58.96	≤-26.94	PASS
			1000~26500	-6.94	-46.5	≤-26.94	PASS
		2437	Reference	-6.66	-6.66	---	PASS
			30~1000	-6.66	-58.36	≤-26.66	PASS
			1000~26500	-6.66	-42.47	≤-26.66	PASS
		2462	Reference	-6.95	-6.95	---	PASS
			30~1000	-6.95	-39.99	≤-26.95	PASS
			1000~26500	-6.95	-46.38	≤-26.95	PASS
11N40SISO	Ant	2422	Reference	-11.05	-11.05	---	PASS
			30~1000	-11.05	-49.22	≤-31.05	PASS
			1000~26500	-11.05	-45.54	≤-31.05	PASS
		2437	Reference	-11.44	-11.44	---	PASS
			30~1000	-11.44	-60.57	≤-31.44	PASS
			1000~26500	-11.44	-45.99	≤-31.44	PASS
		2452	Reference	-10.51	-10.51	---	PASS
			30~1000	-10.51	-40.43	≤-30.51	PASS



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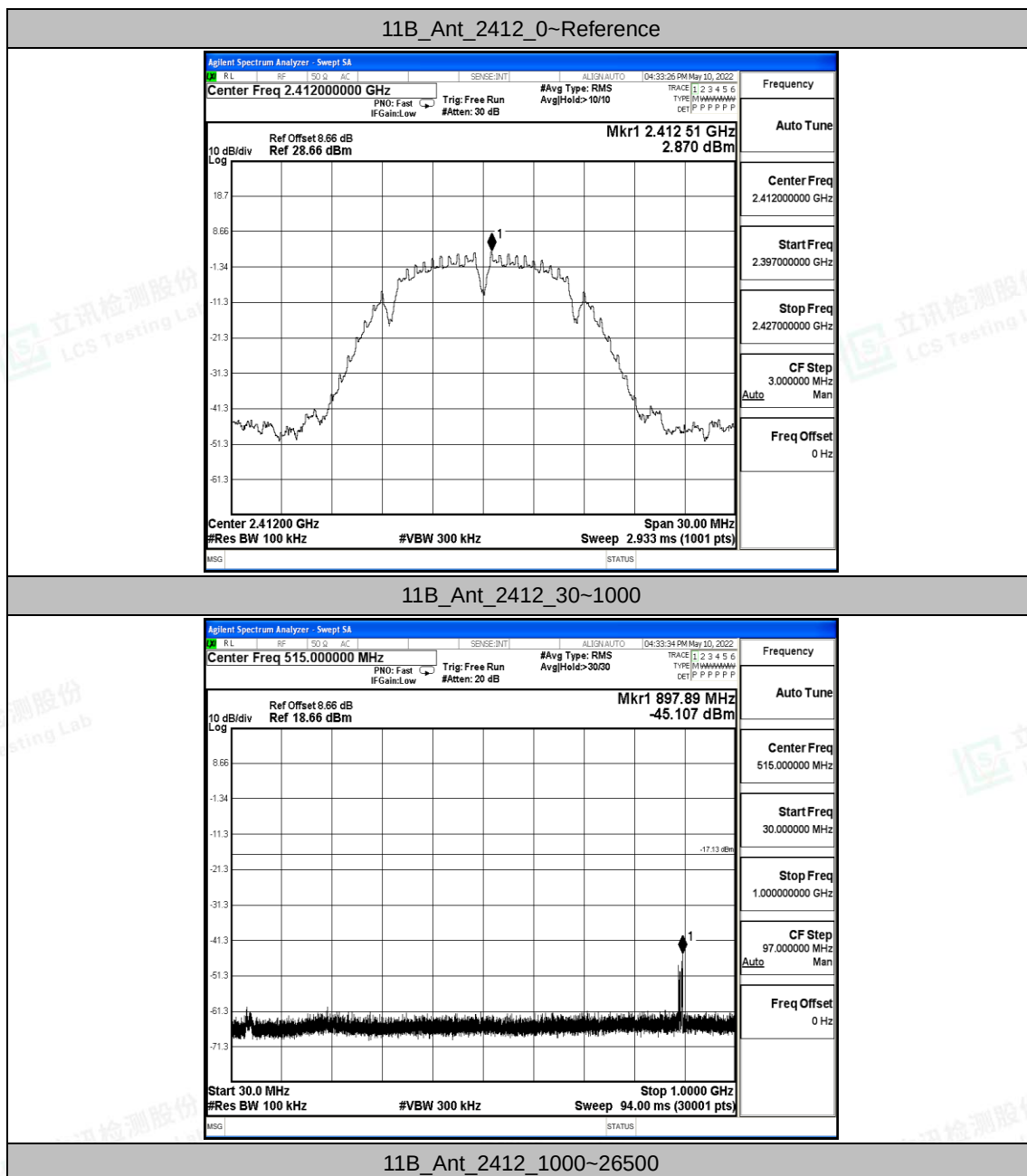


			1000~26500	-10.51	-46.09	≤-30.51	PASS
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Test Graphs

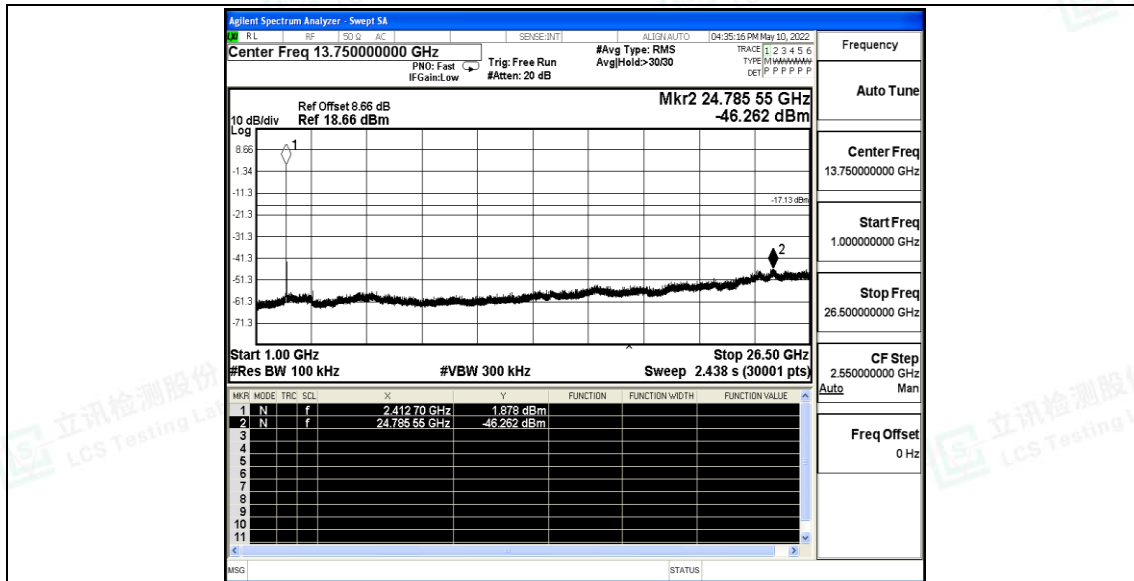


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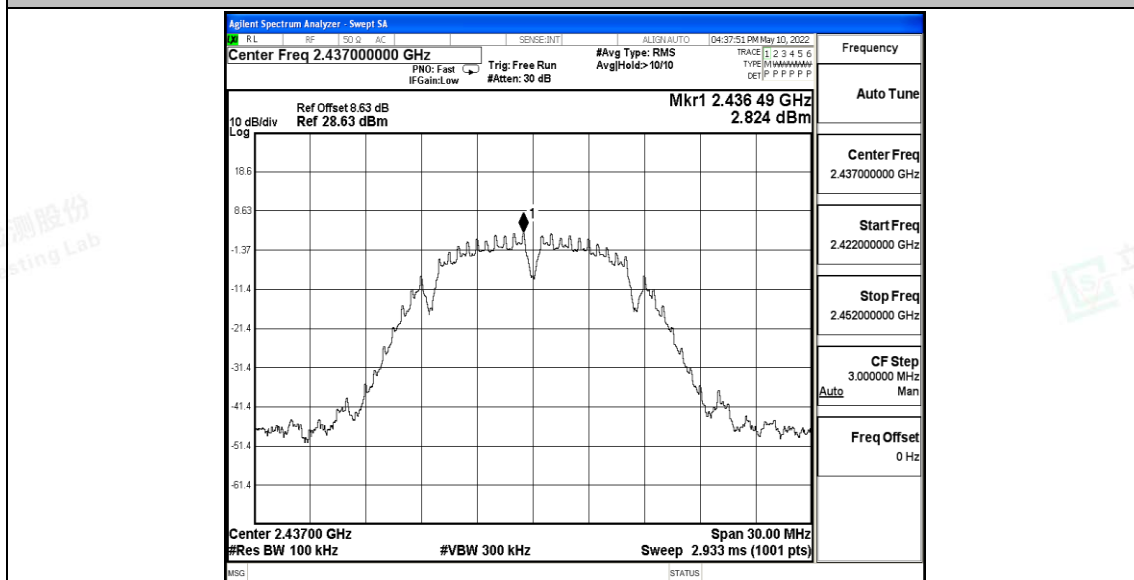
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11B_Ant_2437_0~Reference



11B_Ant_2437_30~1000

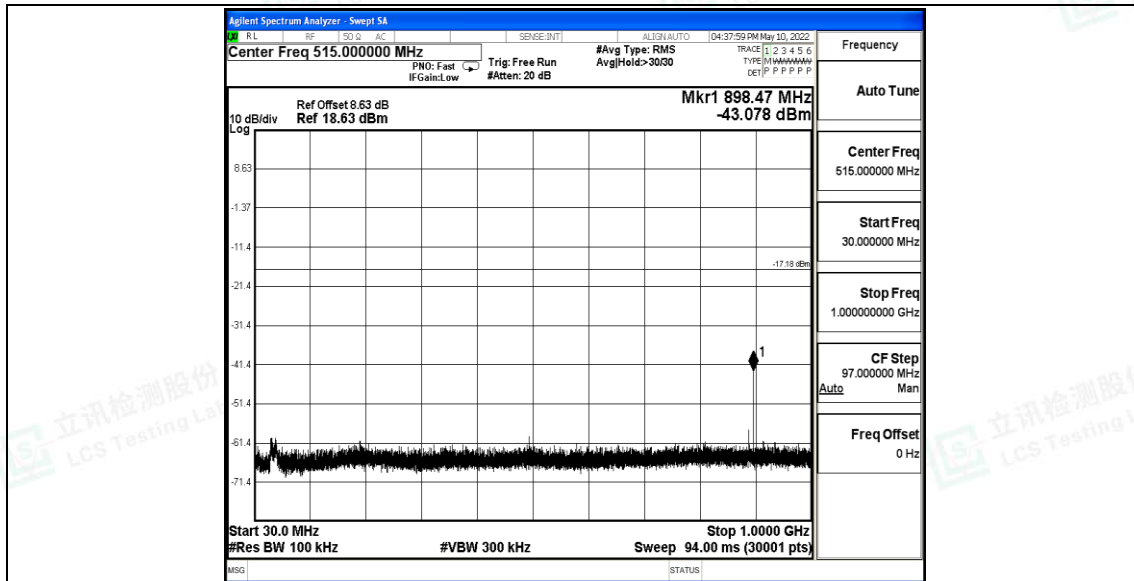


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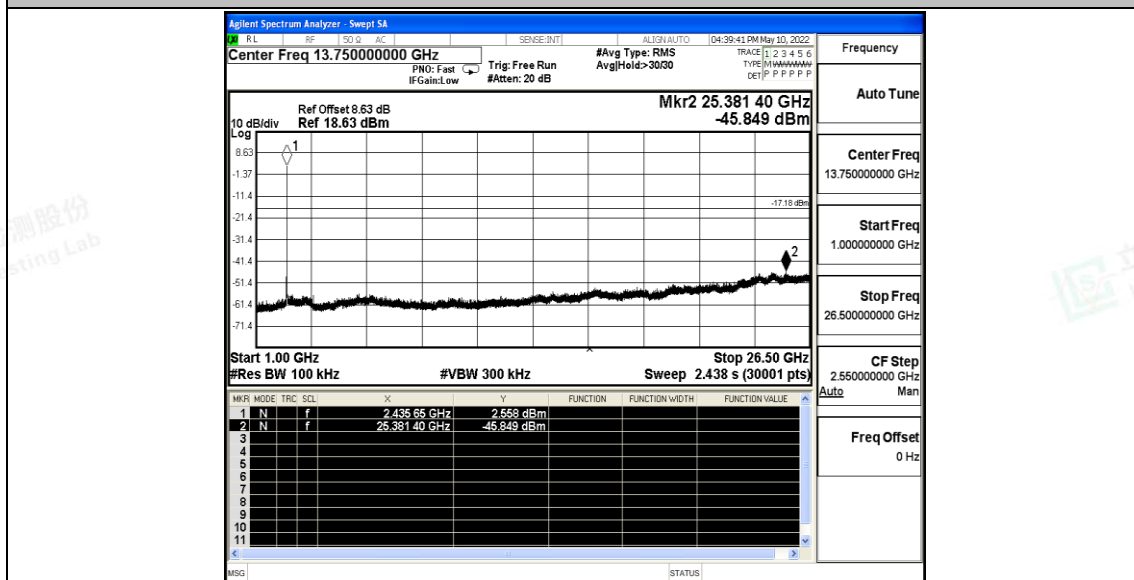
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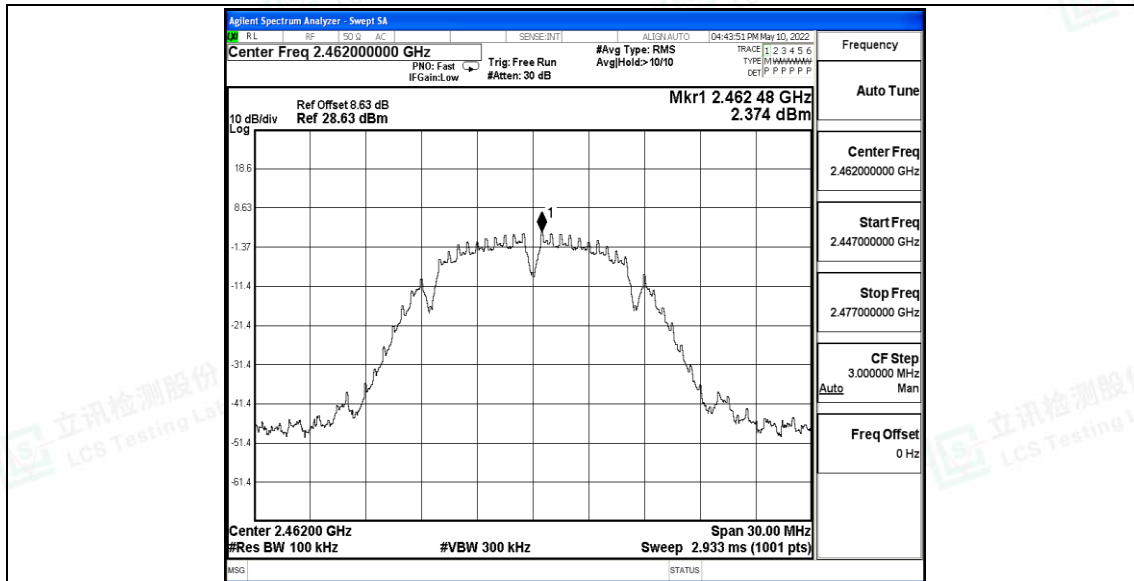


11B_Ant_2437_1000~26500

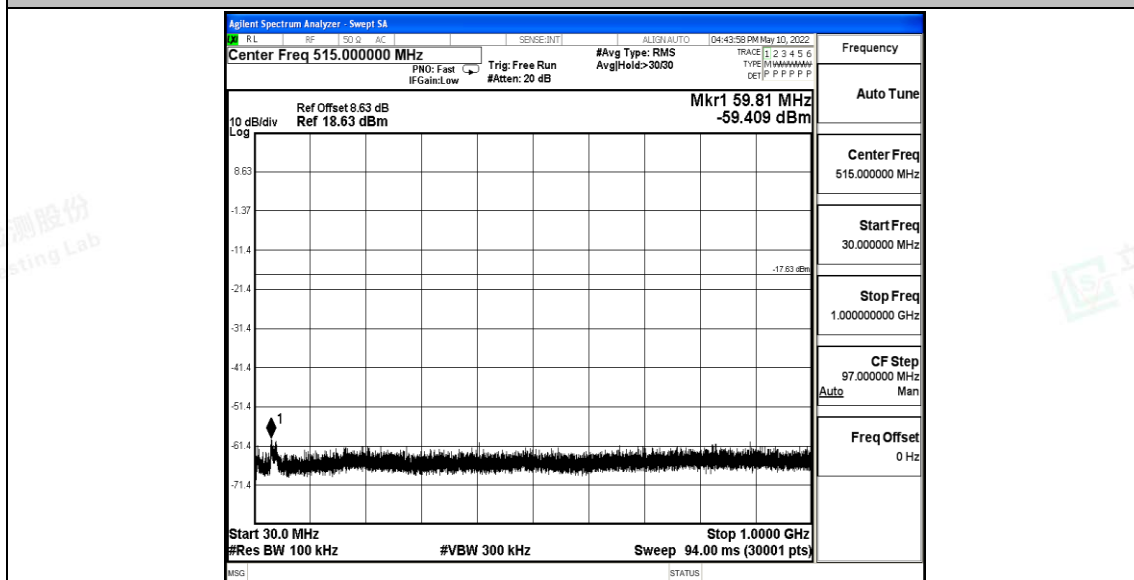


11B_Ant_2462_0~Reference



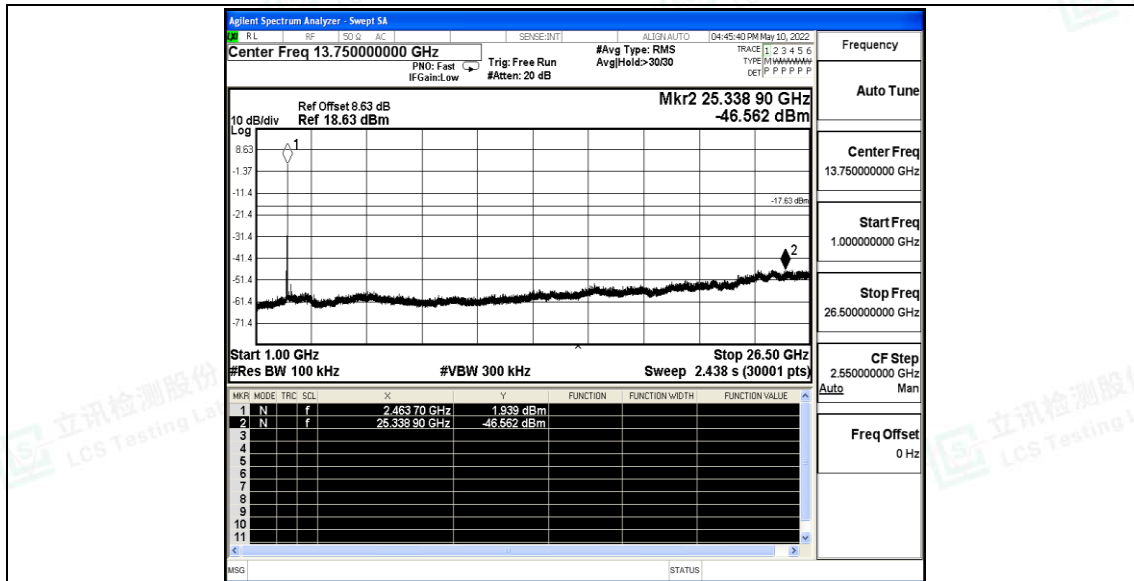


11B_Ant_2462_30~1000

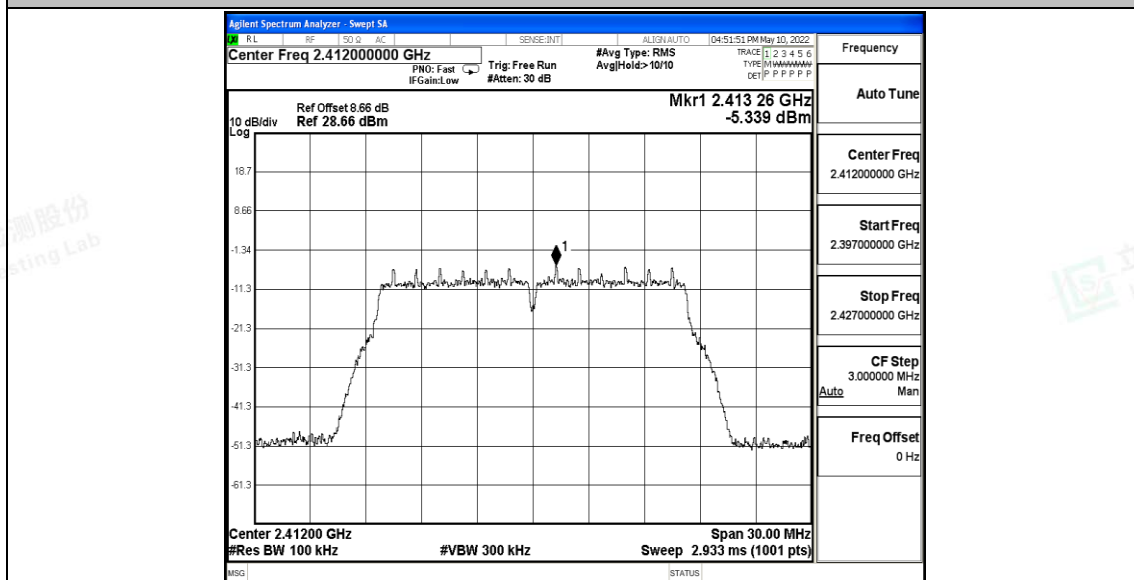


11B_Ant_2462_1000~26500



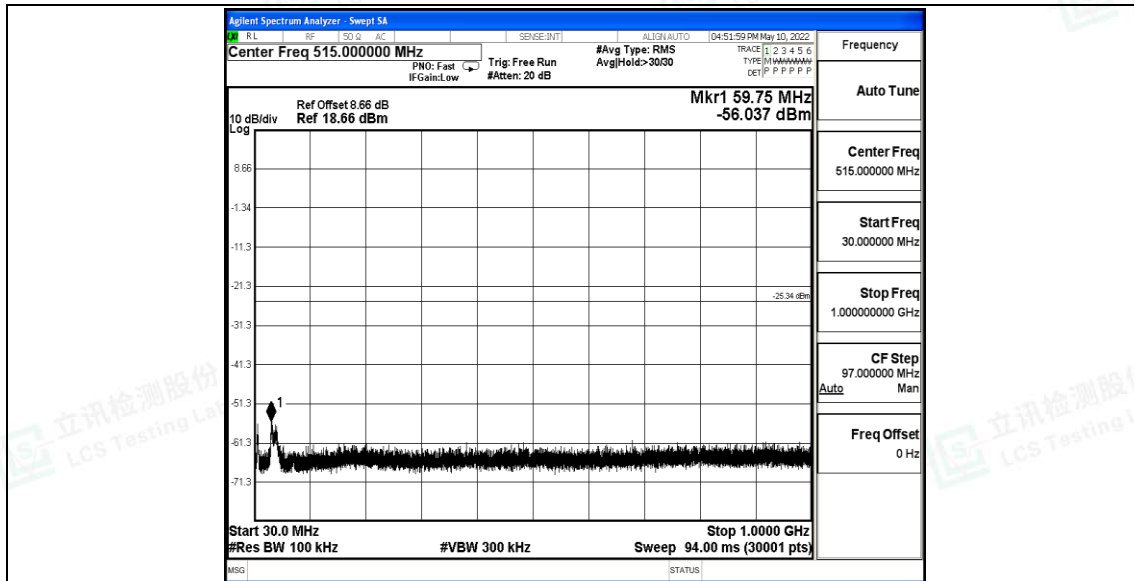


11G_Ant_2412_0~Reference

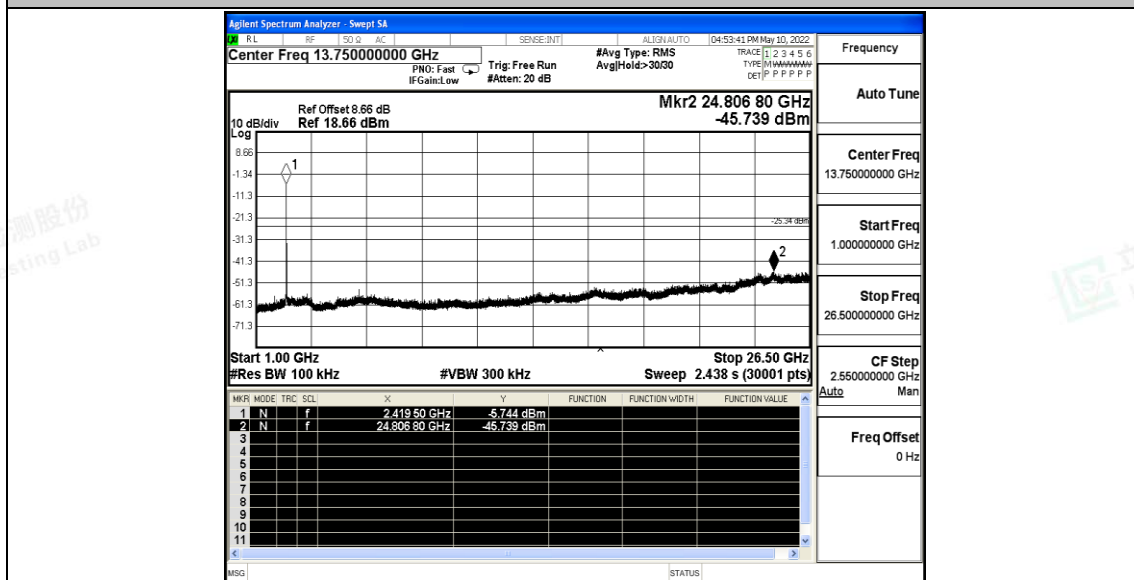


11G_Ant_2412_30~1000





11G_Ant_2412_1000~26500



11G_Ant_2437_0~Reference

