



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Smart Downlight

Test Model: 6EJCT13SR-NS

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Li Huan



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B.1 DTS Bandwidth

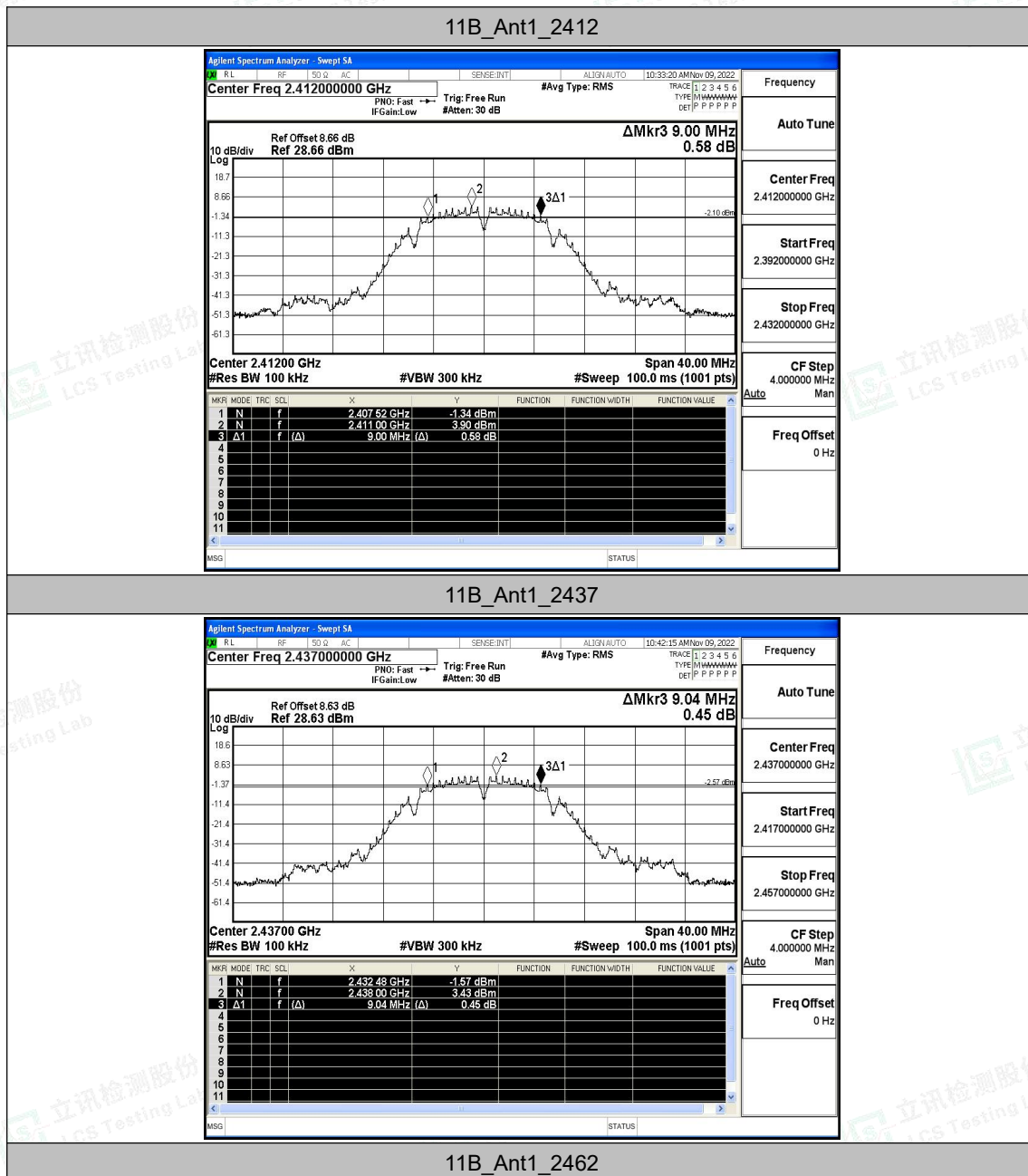
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.000	2407.520	2416.520	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	9.520	2457.000	2466.520	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS





Test Graphs

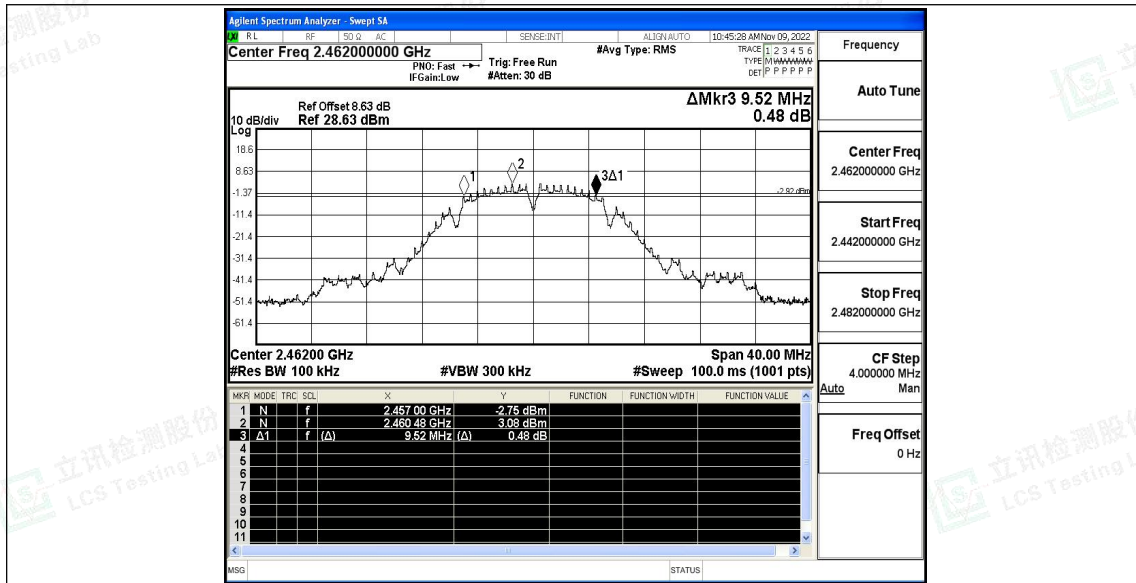


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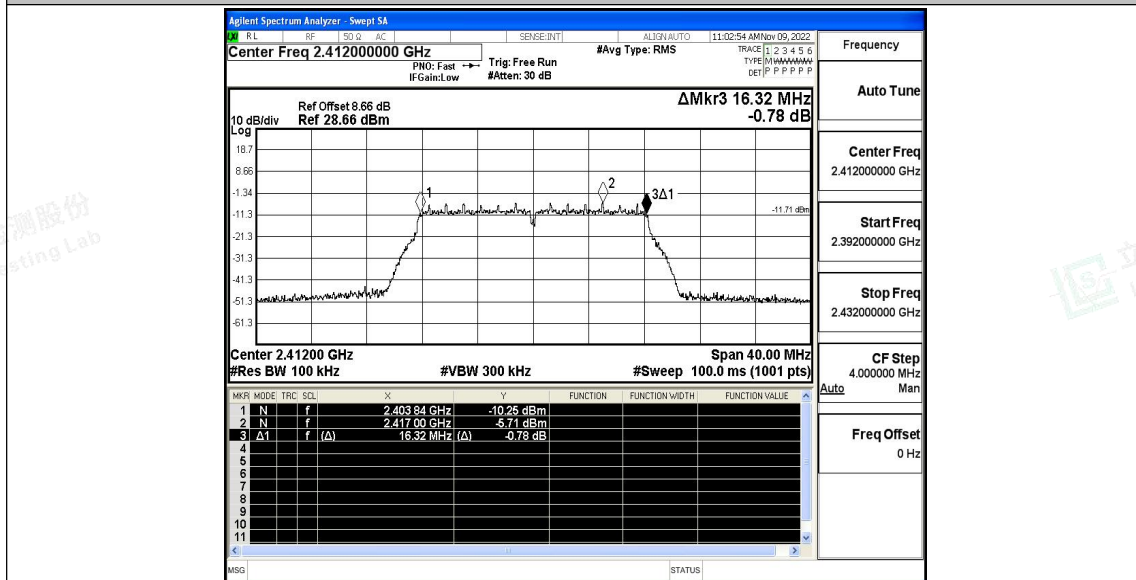
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11G_Ant1_2412



11G_Ant1_2437

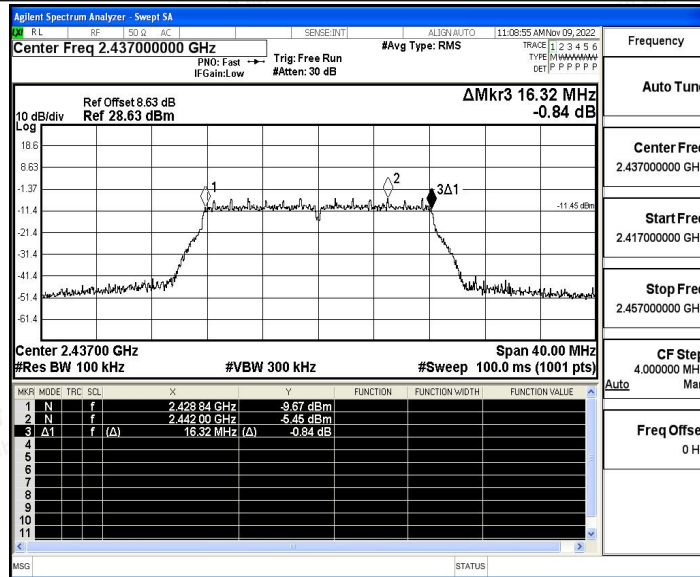


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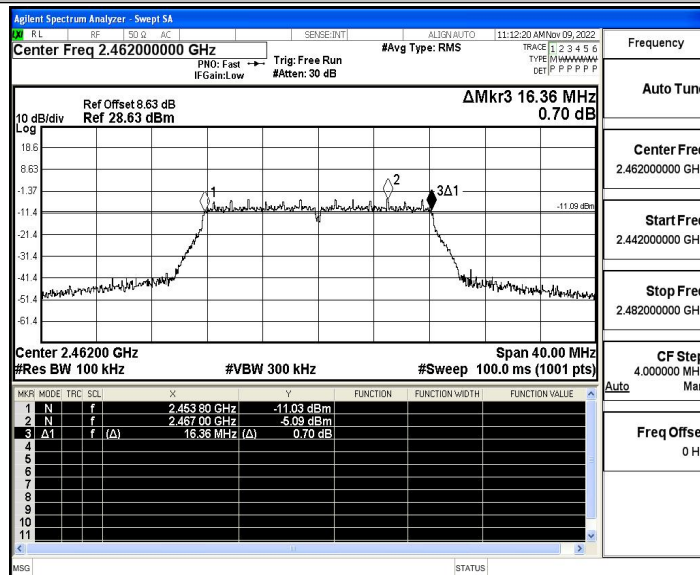
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11G_Ant1_2462



11N20SISO_Ant1_2412

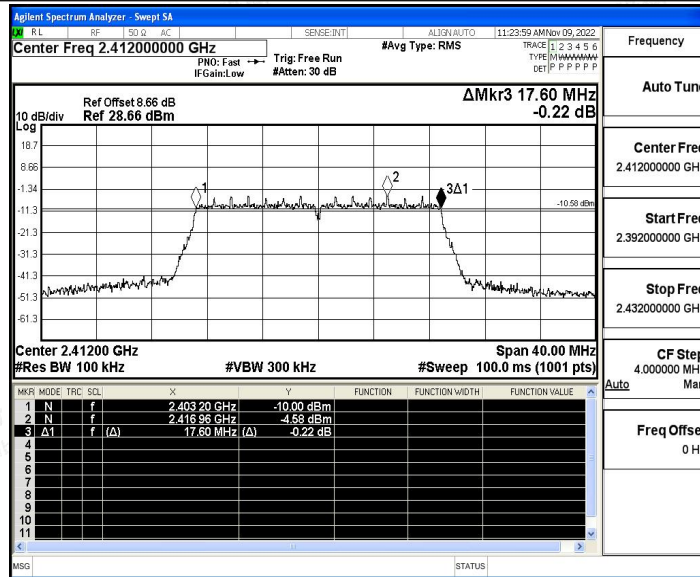


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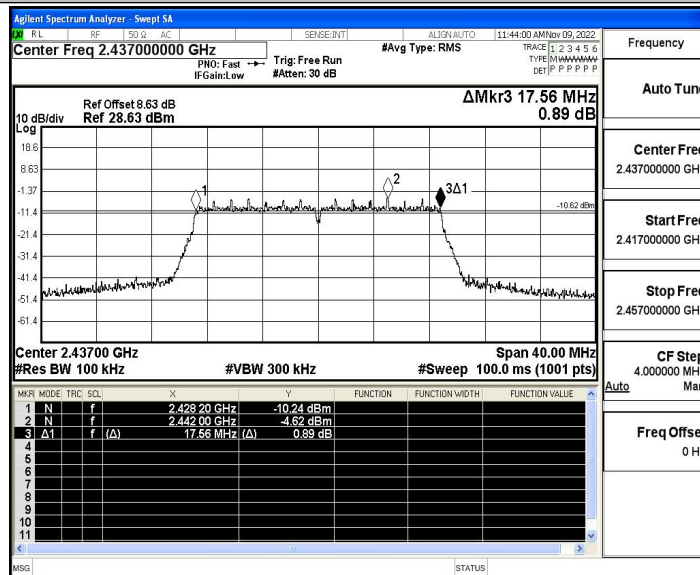
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

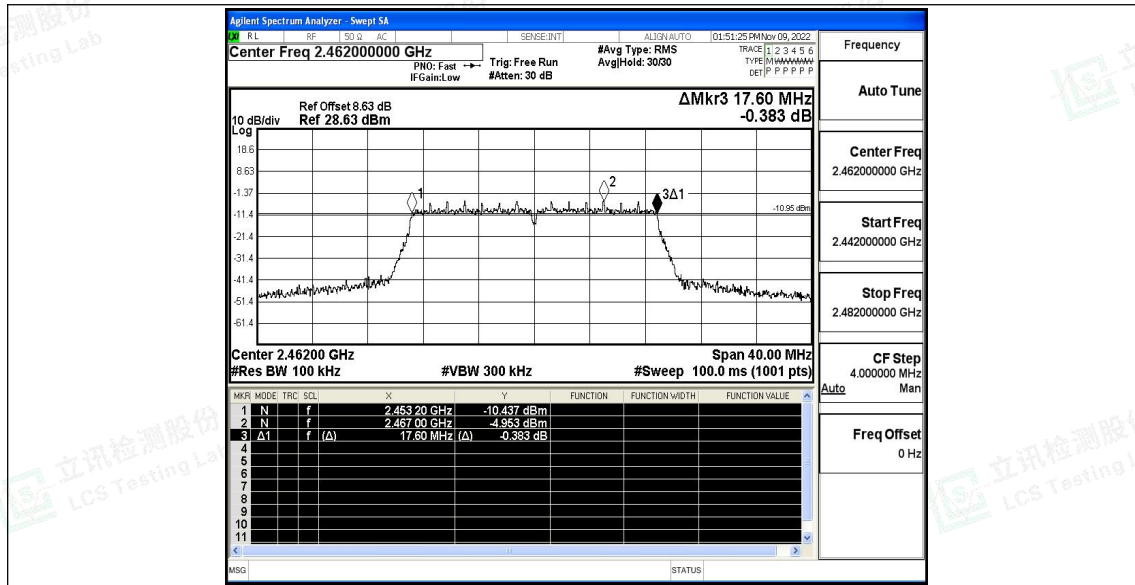


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B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.54	≤30.00	PASS
		2437	15.18	≤30.00	PASS
		2462	14.89	≤30.00	PASS
11G	Ant1	2412	13.82	≤30.00	PASS
		2437	13.98	≤30.00	PASS
		2462	14.39	≤30.00	PASS
11N20SISO	Ant1	2412	15.02	≤30.00	PASS
		2437	14.69	≤30.00	PASS
		2462	14.48	≤30.00	PASS





B.3 Maximum power spectral density

Test Result

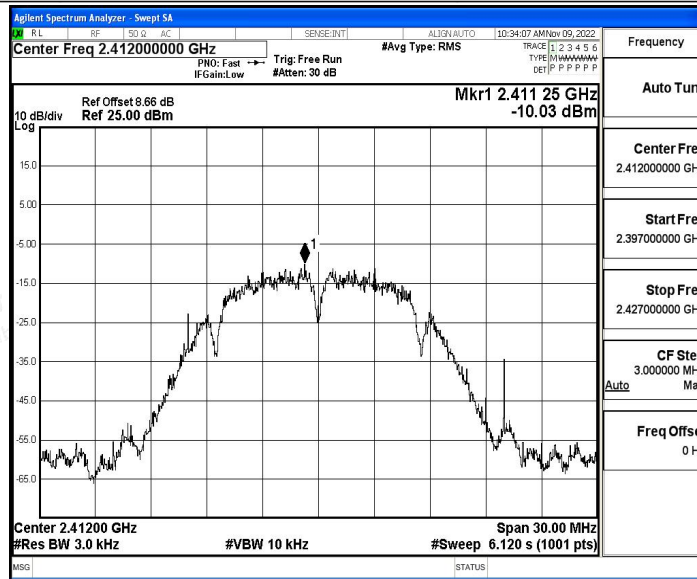
TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-10.04	≤8.00	PASS
		2437	-10.72	≤8.00	PASS
		2462	-12.34	≤8.00	PASS
11G	Ant1	2412	-20.24	≤8.00	PASS
		2437	-19.51	≤8.00	PASS
		2462	-19.57	≤8.00	PASS
11N20SISO	Ant1	2412	-18.56	≤8.00	PASS
		2437	-19.56	≤8.00	PASS
		2462	-19.44	≤8.00	PASS



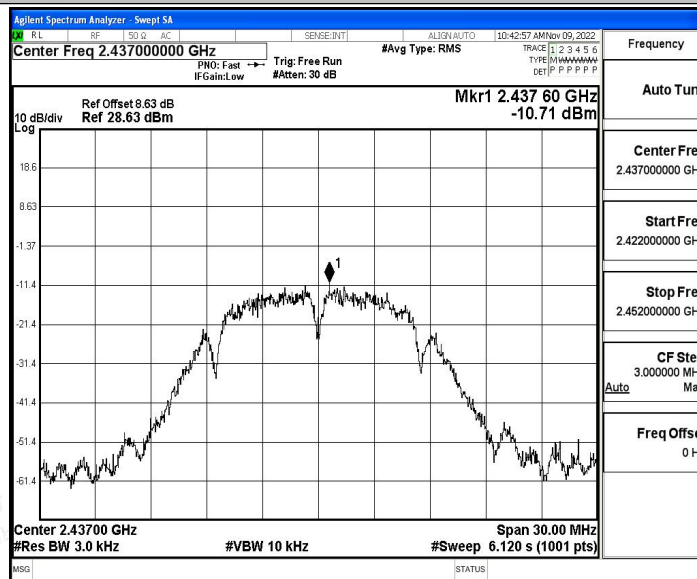


Test Graphs

11B_Ant1_2412

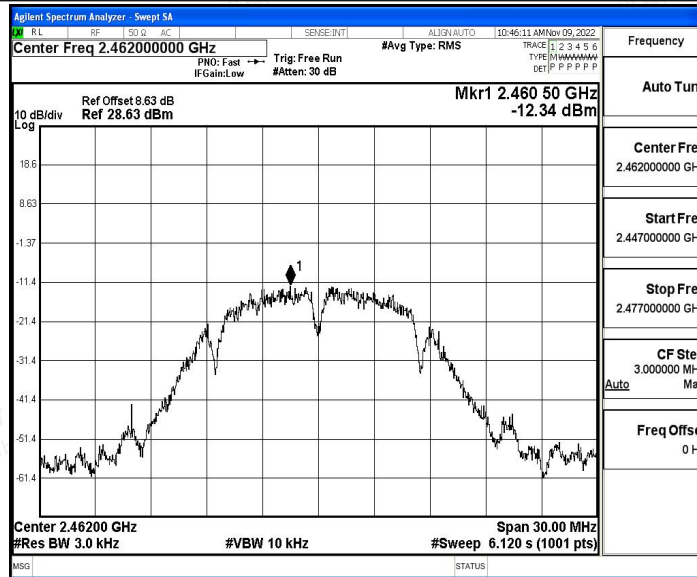


11B_Ant1_2437

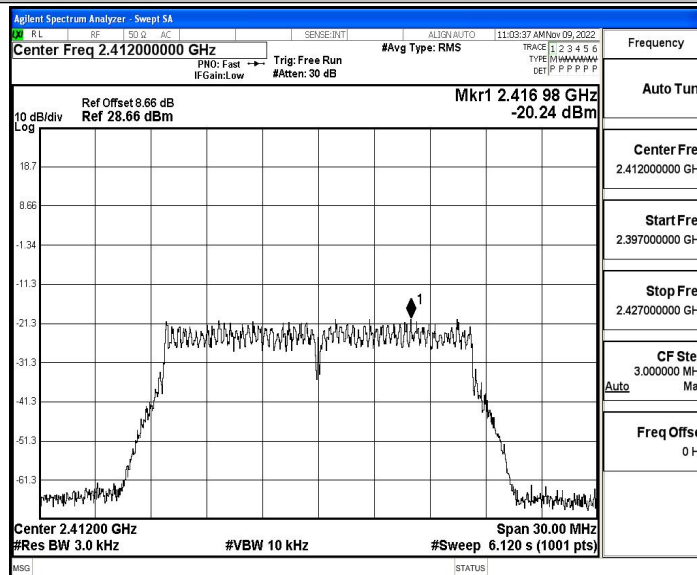


11B_Ant1_2462



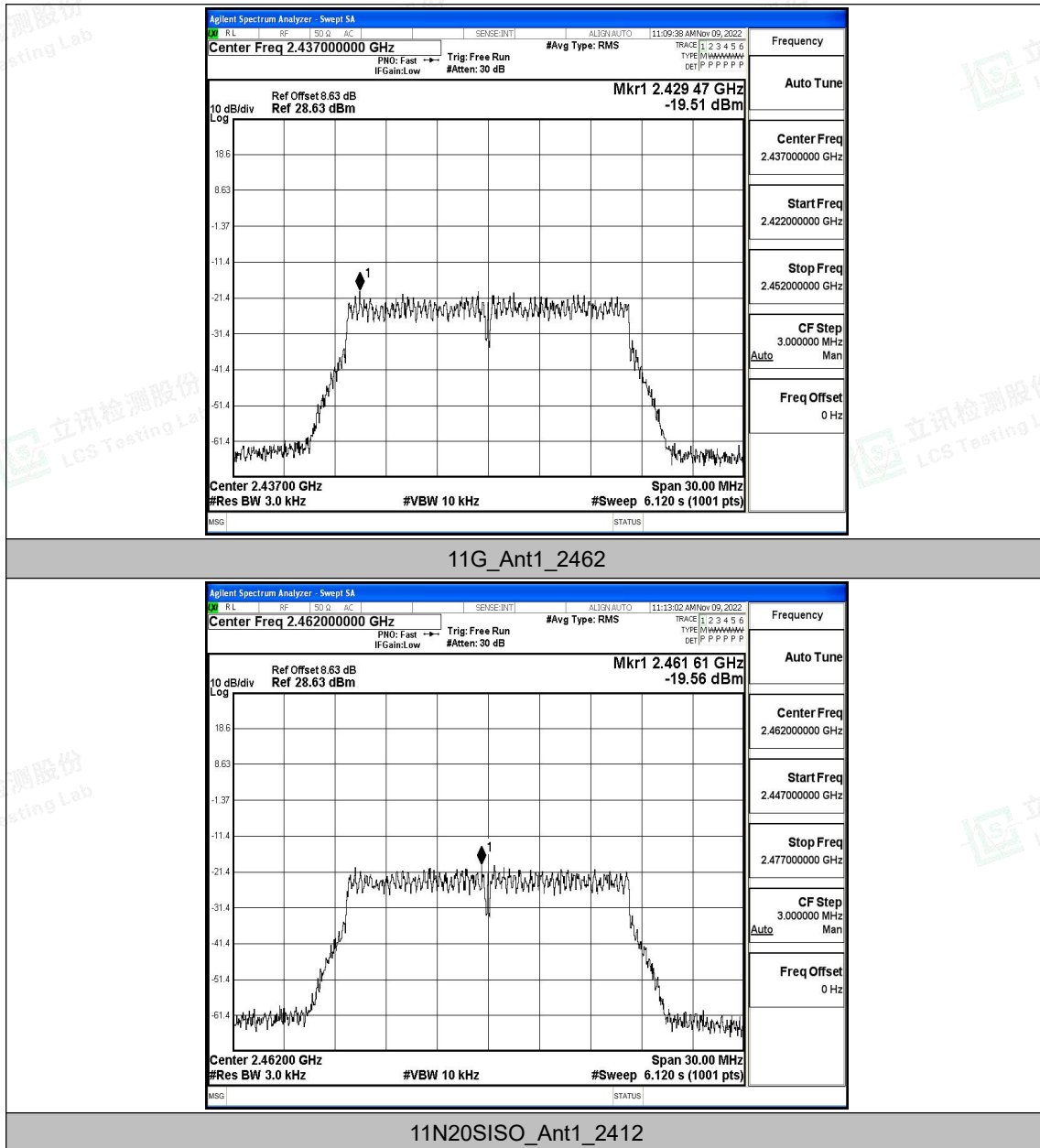


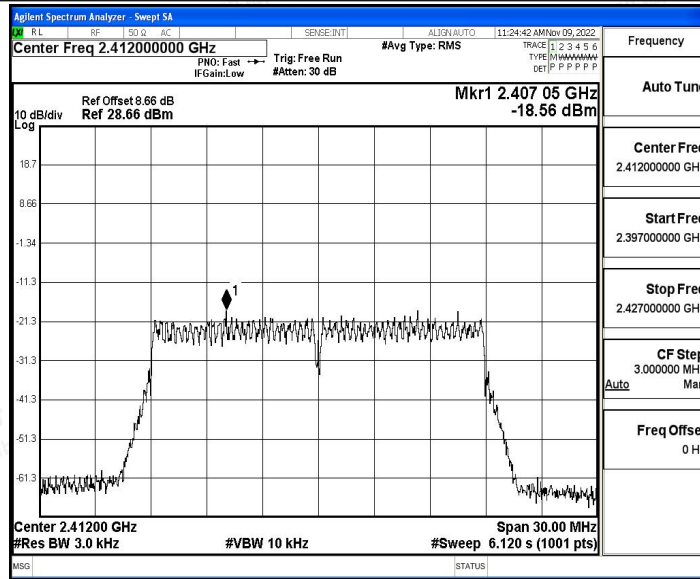
11G_Ant1_2412



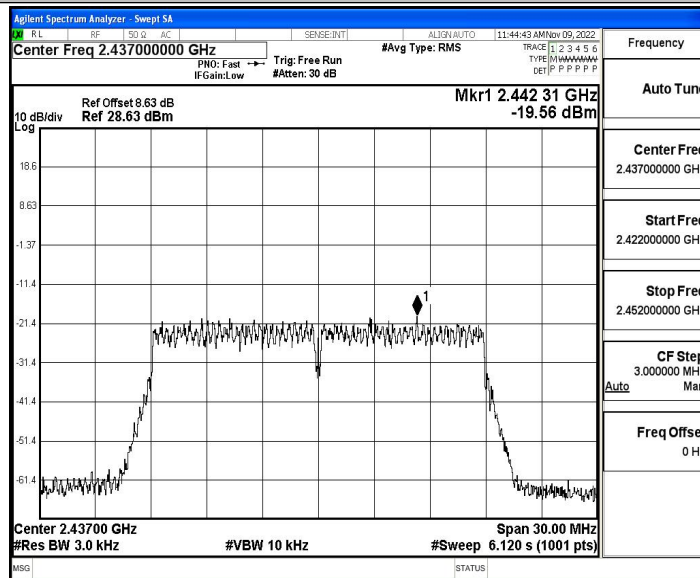
11G_Ant1_2437







11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

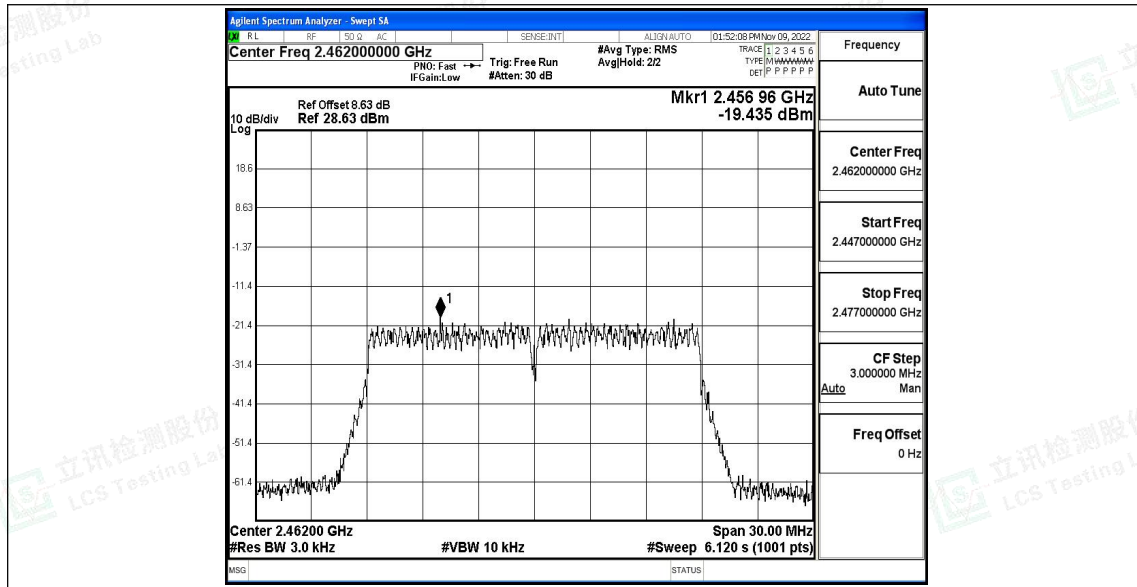


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B.4 Band edge measurements

Test Result

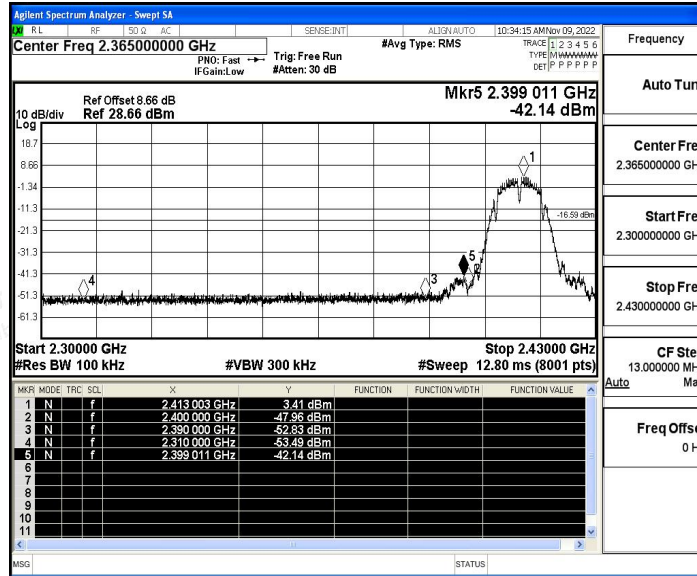
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.41	-42.14	≤-16.59	PASS
		High	2462	2.59	-48.73	≤-17.41	PASS
11G	Ant1	Low	2412	-5.55	-46.76	≤-25.55	PASS
		High	2462	-5.49	-47.78	≤-25.49	PASS
11N20SISO	Ant1	Low	2412	-5.13	-42.59	≤-25.13	PASS
		High	2462	-4.88	-47.75	≤-24.88	PASS



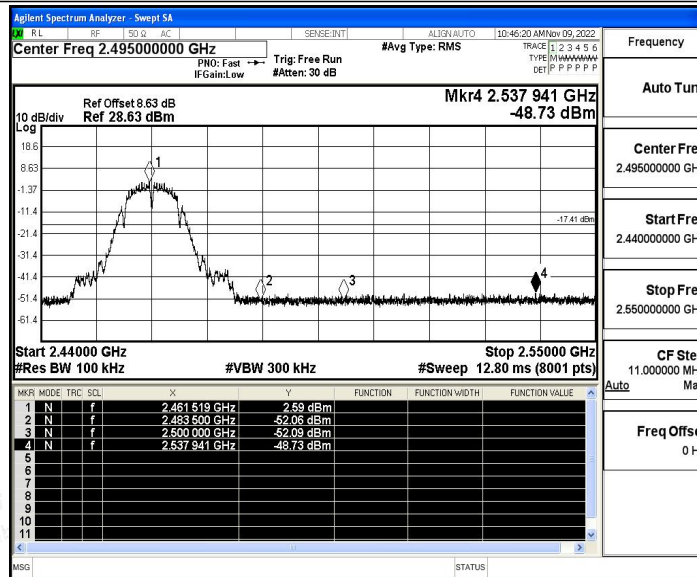


Test Graphs

11B_Ant1_Low_2412

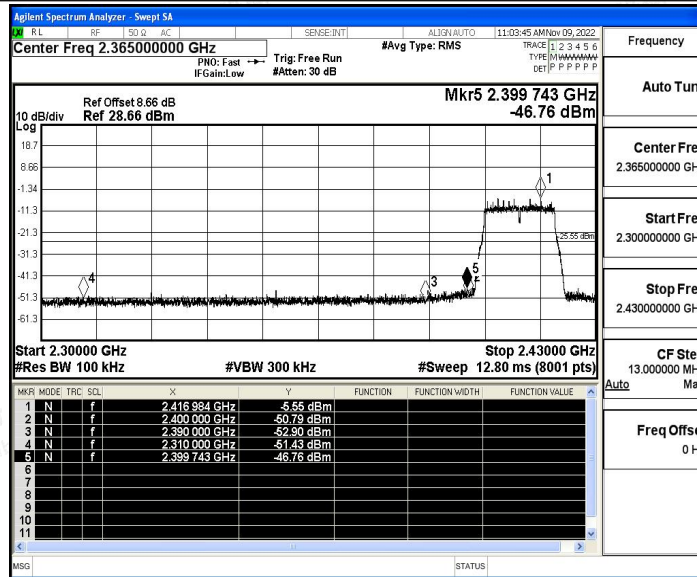


11B_Ant1_High_2462

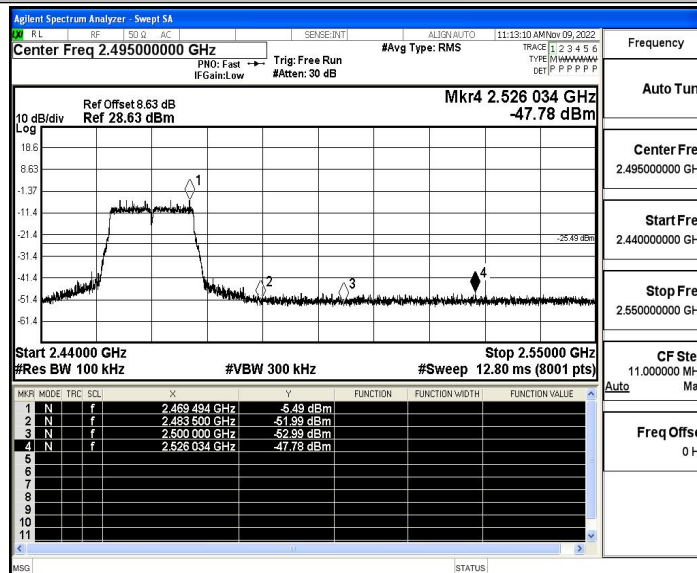


11G_Ant1_Low_2412



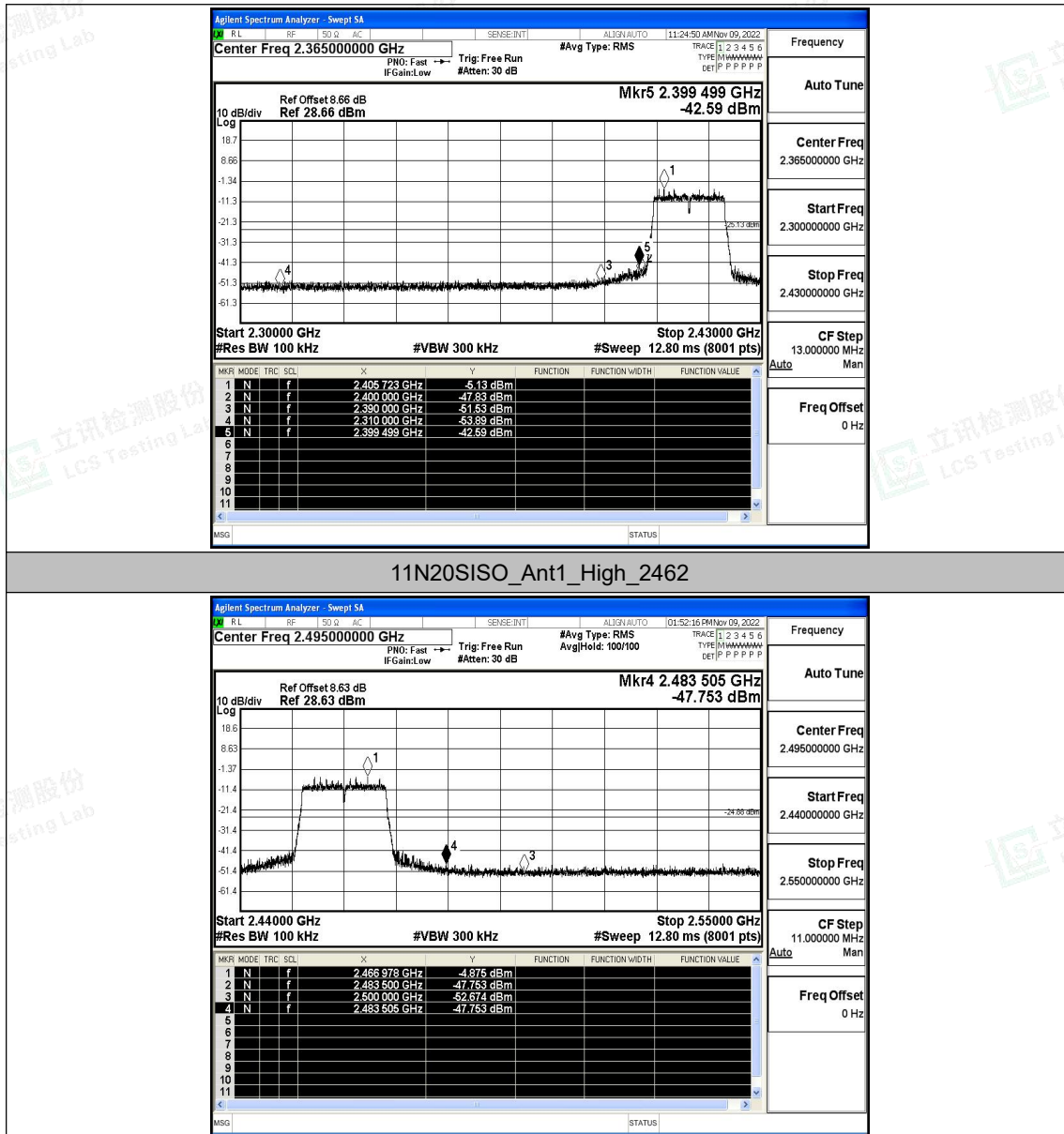


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412







B.5 Conducted Spurious Emission

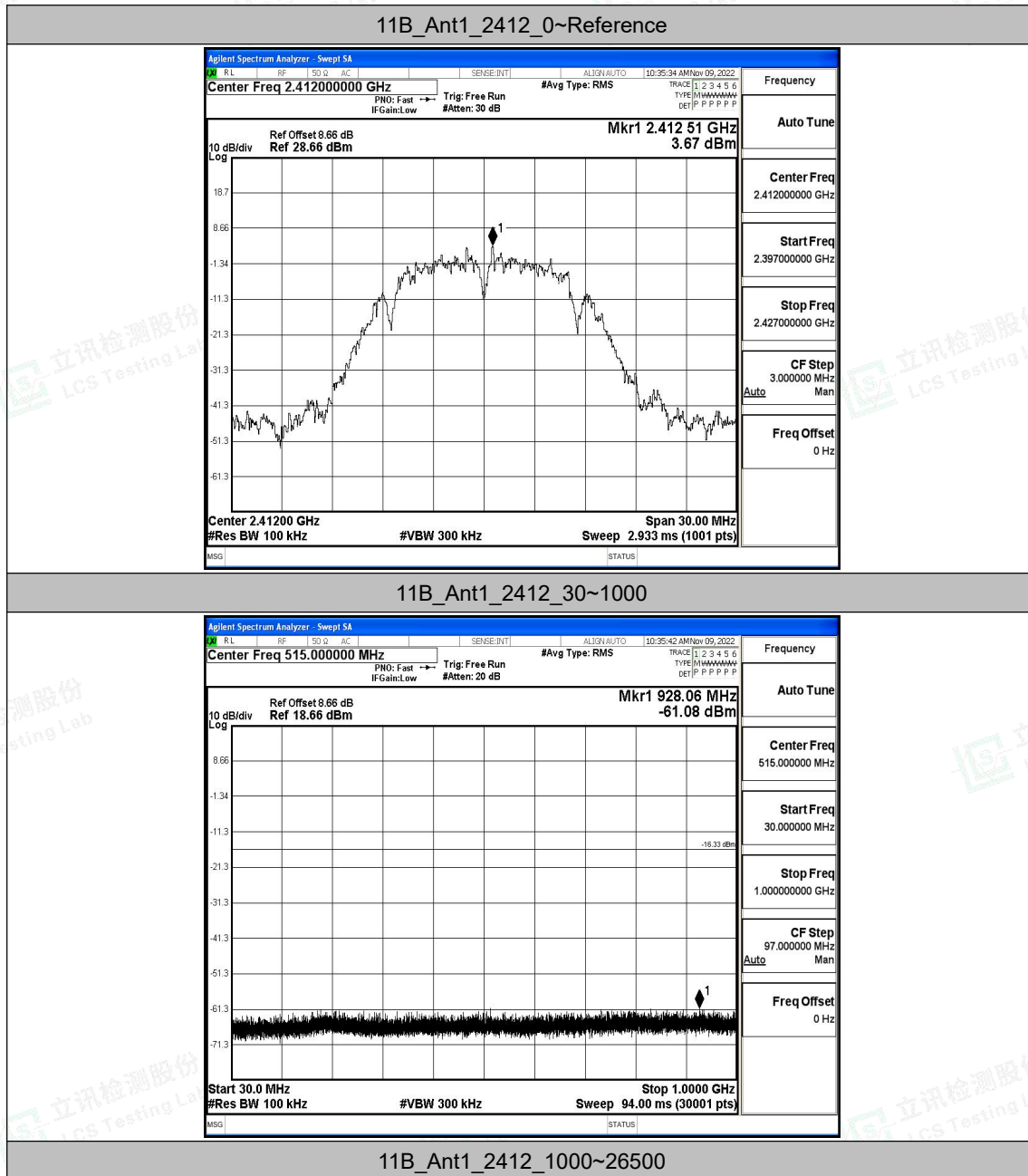
Test Result

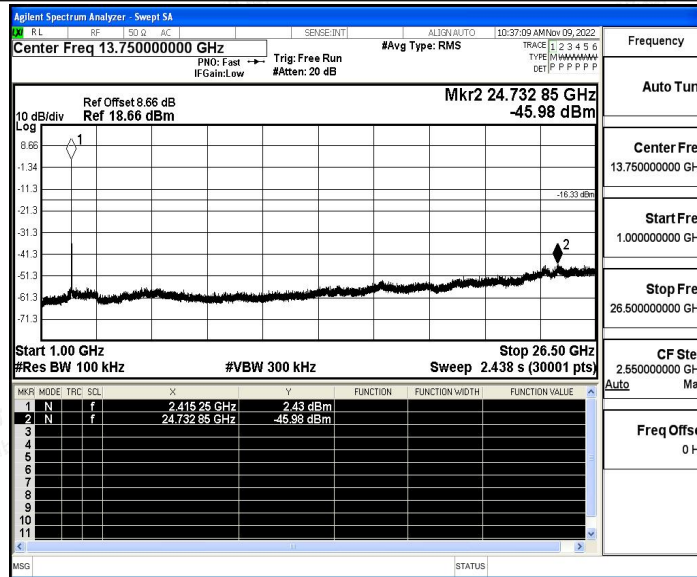
TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.67	3.67	---	PASS
			30~1000	3.67	-61.08	≤-16.33	PASS
			1000~26500	3.67	-45.98	≤-16.33	PASS
		2437	Reference	1.44	1.44	---	PASS
			30~1000	1.44	-60.56	≤-18.56	PASS
			1000~26500	1.44	-46.07	≤-18.56	PASS
		2462	Reference	2.71	2.71	---	PASS
			30~1000	2.71	-58.89	≤-17.29	PASS
			1000~26500	2.71	-46.07	≤-17.29	PASS
11G	Ant1	2412	Reference	-9.20	-9.20	---	PASS
			30~1000	-9.20	-60.68	≤-29.2	PASS
			1000~26500	-9.20	-46.11	≤-29.2	PASS
		2437	Reference	-6.22	-6.22	---	PASS
			30~1000	-6.22	-60.13	≤-26.22	PASS
			1000~26500	-6.22	-45.52	≤-26.22	PASS
		2462	Reference	-7.68	-7.68	---	PASS
			30~1000	-7.68	-60.98	≤-27.68	PASS
			1000~26500	-7.68	-46.8	≤-27.68	PASS
11N20SISO	Ant1	2412	Reference	-5.66	-5.66	---	PASS
			30~1000	-5.66	-60.66	≤-25.66	PASS
			1000~26500	-5.66	-46.35	≤-25.66	PASS
		2437	Reference	-8.77	-8.77	---	PASS
			30~1000	-8.77	-54.46	≤-28.77	PASS
			1000~26500	-8.77	-46.32	≤-28.77	PASS
		2462	Reference	-7.39	-7.39	---	PASS
			30~1000	-7.39	-60.62	≤-27.39	PASS
			1000~26500	-7.39	-46.31	≤-27.39	PASS



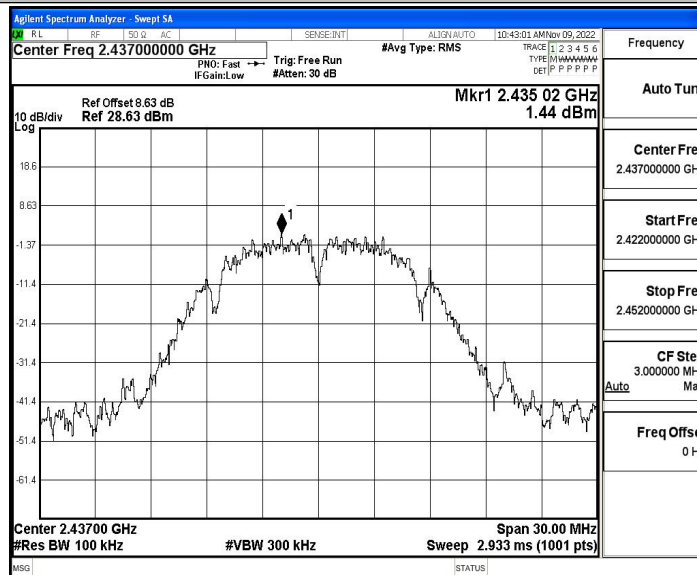


Test Graphs



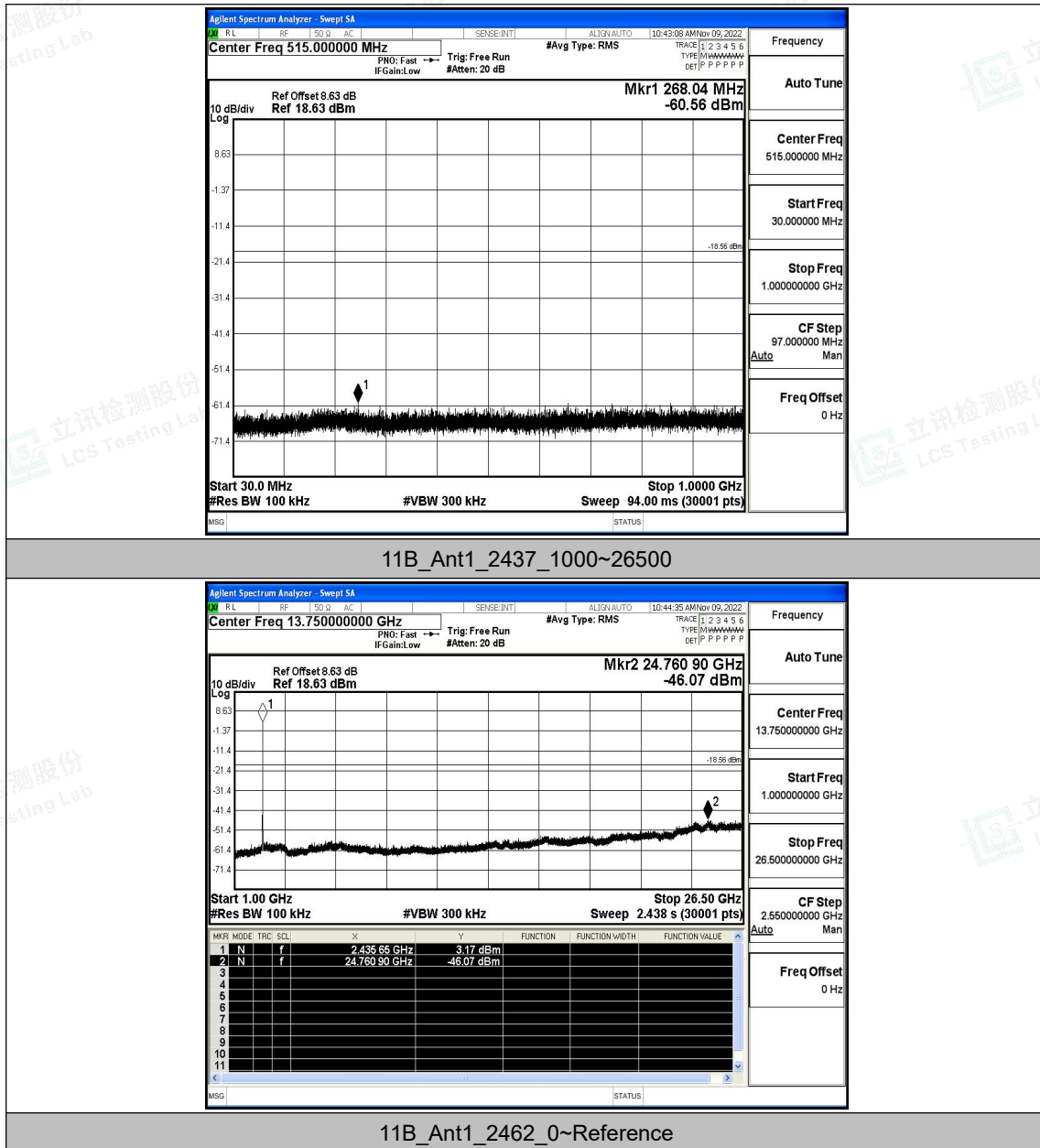


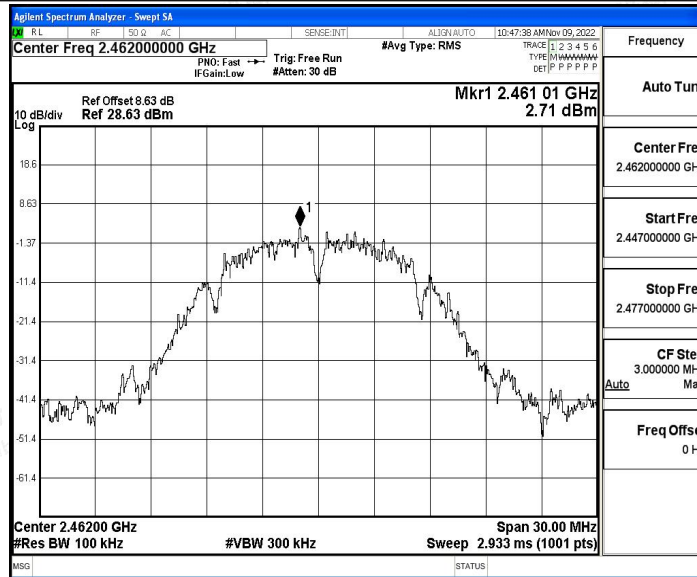
11B_Ant1_2437_0~Reference



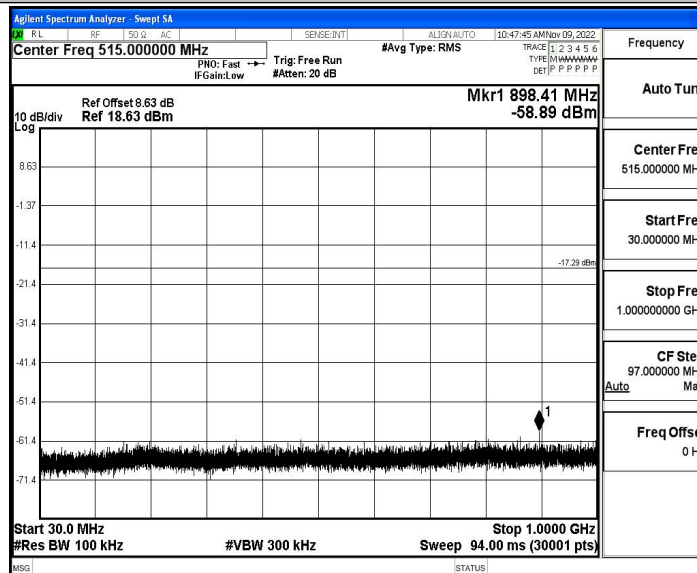
11B_Ant1_2437_30~1000





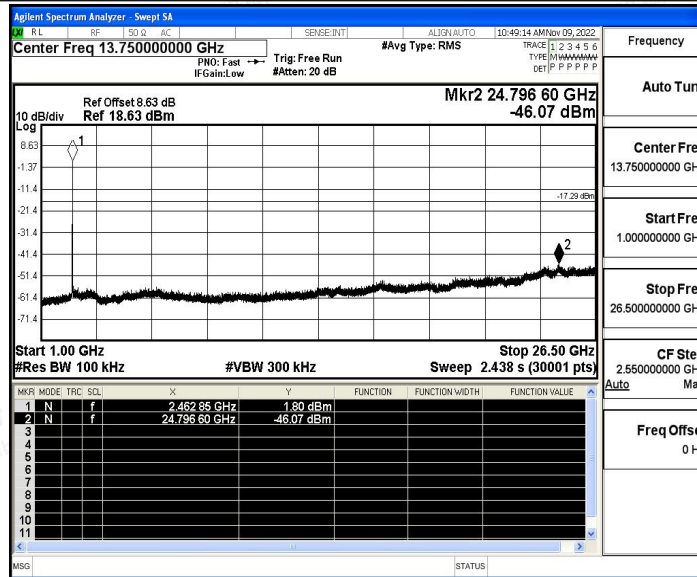


11B_Ant1_2462_30~1000

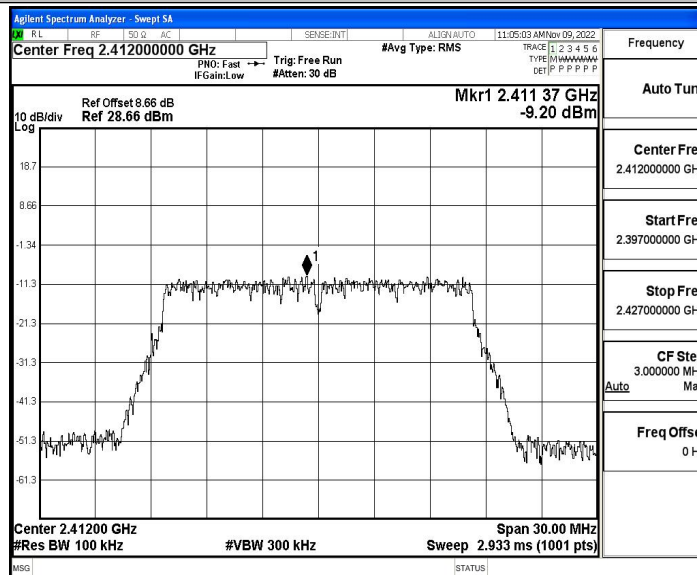


11B_Ant1_2462_1000~26500





11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



