

Appendix Test Data

Report No.:	18220WC20186702	Test Sample No.:	1-2-2
Start Test Date:	2022.8.15	Finish Test Date:	2022.8.24
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	26.3°C	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	10.050	2406.990	2417.040	≥0.5	PASS
		2437	10.020	2432.020	2442.040	≥0.5	PASS
		2462	10.050	2456.960	2467.010	≥0.5	PASS
11g	Ant1	2412	16.350	2403.780	2420.130	≥0.5	PASS
		2437	16.350	2428.780	2445.130	≥0.5	PASS
		2462	16.350	2453.780	2470.130	≥0.5	PASS
11n20	Ant1	2412	17.040	2403.420	2420.460	≥0.5	PASS
		2437	16.380	2428.750	2445.130	≥0.5	PASS
		2462	17.100	2453.360	2470.460	≥0.5	PASS





11g_Ant1_2412



11g_Ant1_2437





11g_Ant1_2462



11n20_Ant1_2412

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11n20_Ant1_2437



11n20_Ant1_2462





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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11b	Ant1	2412	14.202	2404.9532	2419.1552
		2437	14.223	2429.8666	2444.0896
		2462	14.274	2454.8115	2469.0855
11g	Ant1	2412	16.957	2403.4494	2420.4064
		2437	16.948	2428.4662	2445.4142
		2462	16.887	2453.4841	2470.3711
11n20	Ant1	2412	17.664	2403.1391	2420.8031
		2437	16.944	2428.4890	2445.4330
		2462	17.649	2453.1381	2470.7871



Test Graphs

11b_Ant1_2412



11b_Ant1_2437



11b_Ant1_2462

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11g_Ant1_2412



11g_Ant1_2437





11g_Ant1_2462



11n20_Ant1_2412

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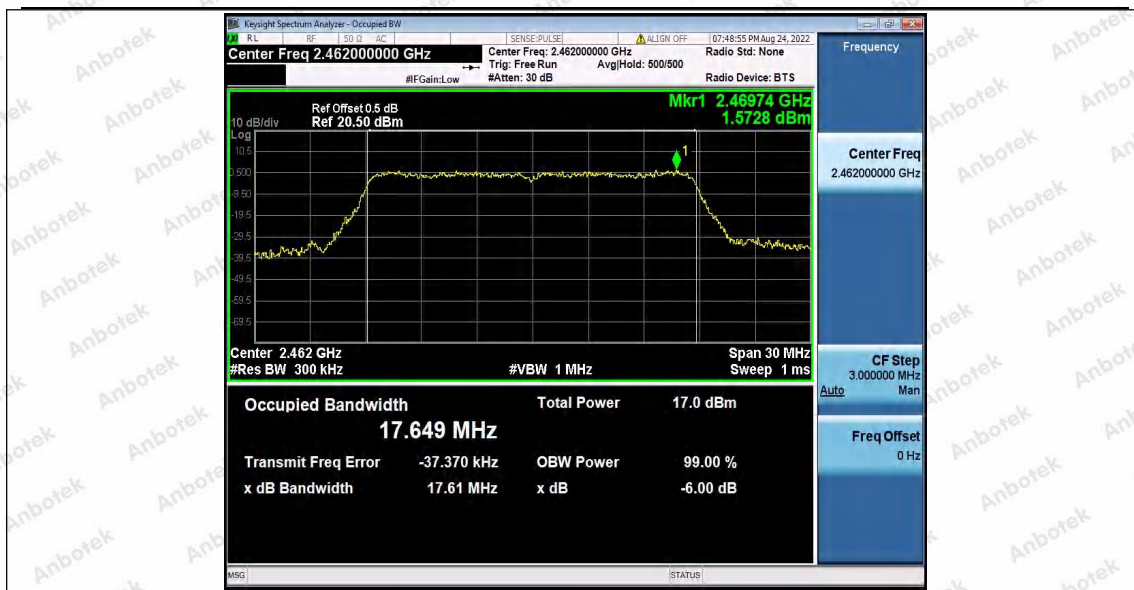
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	---	16.85	≤30	PASS
		2437	---	16.61	≤30	PASS
		2462	---	16.68	≤30	PASS
11g	Ant1	2412	---	17.94	≤30	PASS
		2437	---	18.06	≤30	PASS
		2462	---	17.90	≤30	PASS
11n20	Ant1	2412	---	17.86	≤30	PASS
		2437	---	17.89	≤30	PASS
		2462	---	18.02	≤30	PASS



Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant1	2412	-7.09	≤8	PASS
		2437	-9.38	≤8	PASS
		2462	-8.99	≤8	PASS
11g	Ant1	2412	-14.27	≤8	PASS
		2437	-14.76	≤8	PASS
		2462	-14.6	≤8	PASS
11n20	Ant1	2412	-15.01	≤8	PASS
		2437	-15.12	≤8	PASS
		2462	-15.13	≤8	PASS



Test Graphs

11b_Ant1_2412



11b_Ant1_2437



11b_Ant1_2462

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11g_Ant1_2412



11g_Ant1_2437

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11g_Ant1_2462



11n20_Ant1_2412

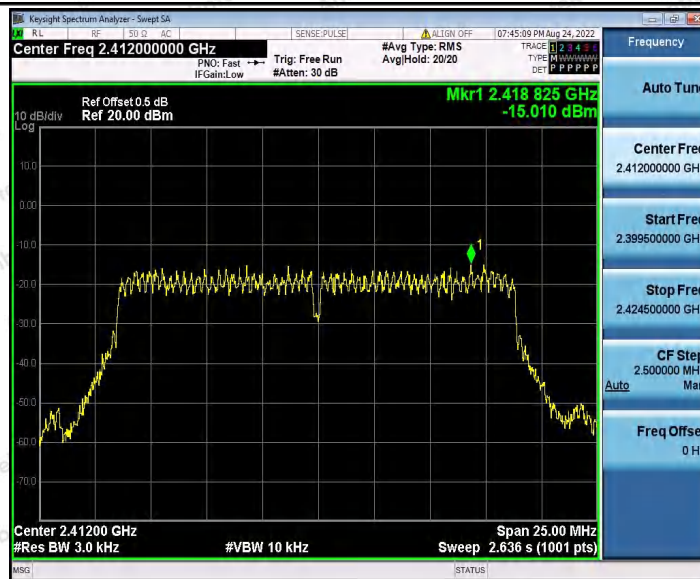
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11n20_Ant1_2437



11n20_Ant1_2462

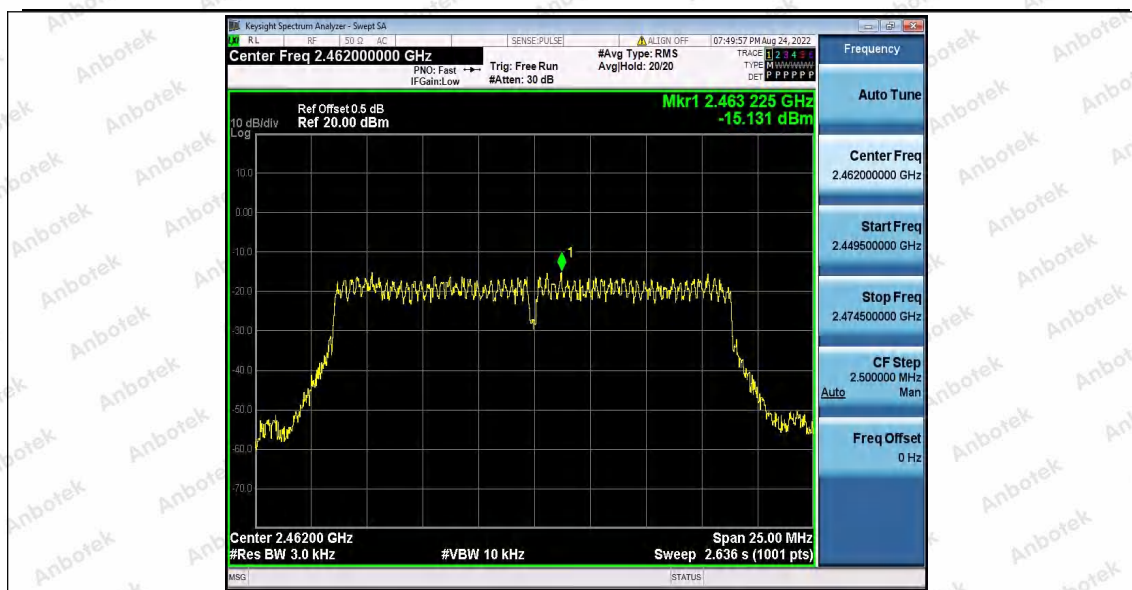
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Appendix E: Band edge measurements

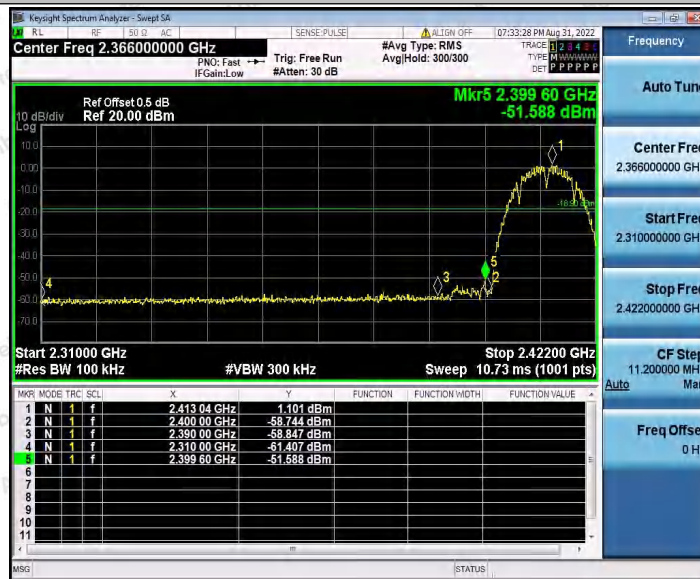
Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11b	Ant1	Low	2412	1.10	-51.59	≤-18.9	PASS
		High	2462	1.28	-56.83	≤-18.73	PASS
11g	Ant1	Low	2412	-0.93	-39.45	≤-20.93	PASS
		High	2462	-1.27	-45.87	≤-21.27	PASS
11n20	Ant1	Low	2412	-0.30	-40.3	≤-20.3	PASS
		High	2462	-0.10	-44.09	≤-20.1	PASS



Test Graphs

11b_Ant1_Low_2412



11b_Ant1_High_2462



11g_Ant1_Low_2412

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11g_Ant1_High_2462



11n20_Ant1_Low_2412





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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11b	Ant1	2412	Reference	4.35	4.35	---	PASS
			30~1000	4.35	-70.06	≤-25.65	PASS
			1000~26500	4.35	-54.18	≤-25.65	PASS
		2437	Reference	3.75	3.75	---	PASS
			30~1000	3.75	-69.7	≤-26.25	PASS
			1000~26500	3.75	-53.82	≤-26.25	PASS
		2462	Reference	4.52	4.52	---	PASS
			30~1000	4.52	-65.12	≤-25.48	PASS
			1000~26500	4.52	-53.77	≤-25.48	PASS
11g	Ant1	2412	Reference	-5.73	-5.73	---	PASS
			30~1000	-5.73	-68.89	≤-35.73	PASS
			1000~26500	-5.73	-53.72	≤-35.73	PASS
		2437	Reference	-4.87	-4.87	---	PASS
			30~1000	-4.87	-69.83	≤-34.87	PASS
			1000~26500	-4.87	-53.37	≤-34.87	PASS
		2462	Reference	-2.78	-2.78	---	PASS
			30~1000	-2.78	-70.23	≤-32.78	PASS
			1000~26500	-2.78	-54.03	≤-32.78	PASS
11n20	Ant1	2412	Reference	-3.63	-3.63	---	PASS
			30~1000	-3.63	-68.32	≤-33.63	PASS
			1000~26500	-3.63	-53.63	≤-33.63	PASS
		2437	Reference	-4.12	-4.12	---	PASS
			30~1000	-4.12	-51.66	≤-34.12	PASS
			1000~26500	-4.12	-54.33	≤-34.12	PASS
		2462	Reference	-3.52	-3.52	---	PASS
			30~1000	-3.52	-68.42	≤-33.52	PASS
			1000~26500	-3.52	-53.7	≤-33.52	PASS

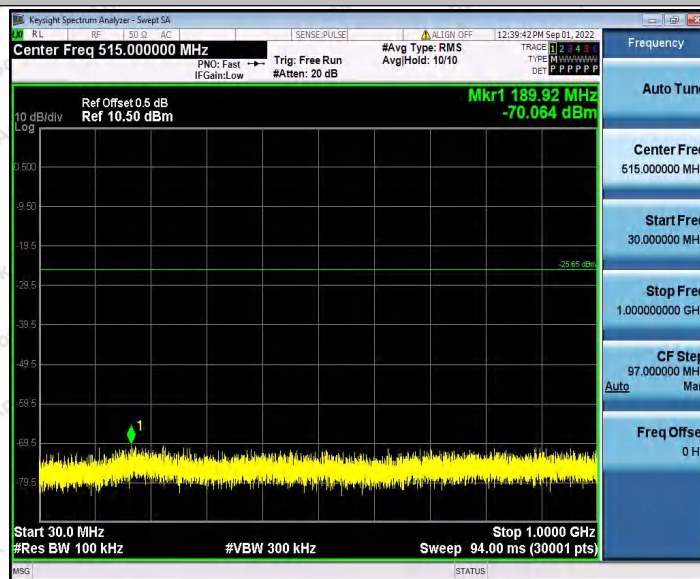


Test Graphs

11b_Ant1_2412_0~Reference



11b_Ant1_2412_30~1000



11b_Ant1_2412_1000~26500

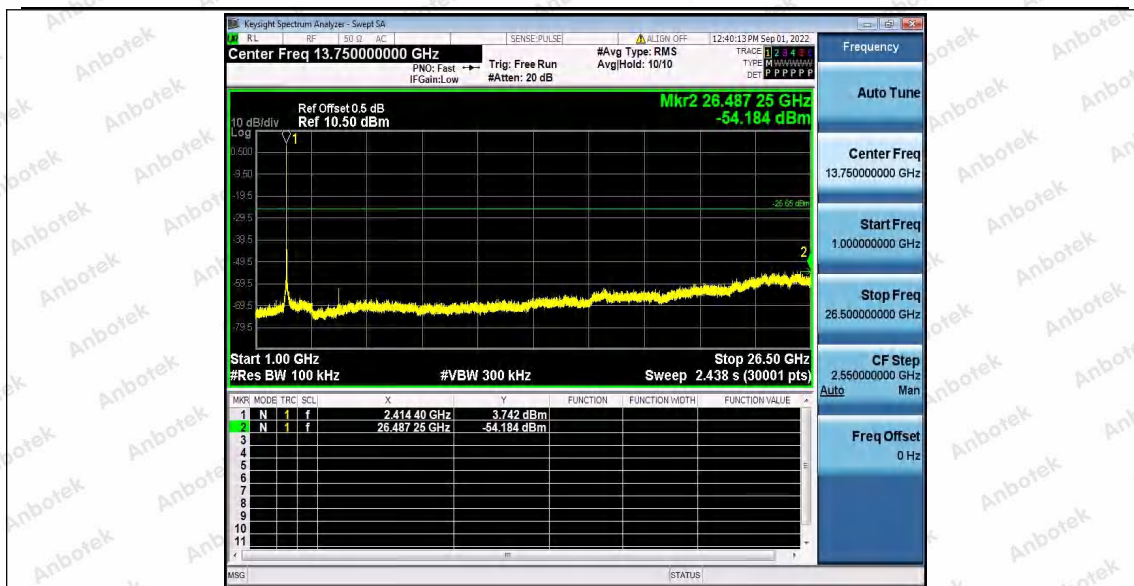
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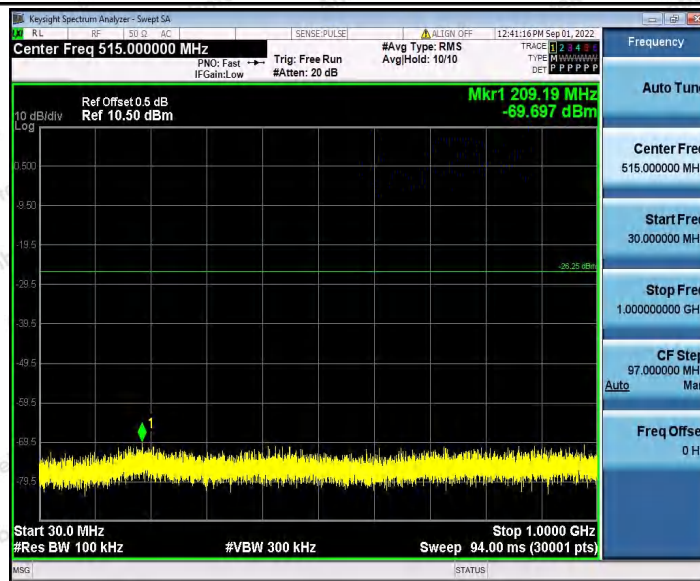


11b_Ant1_2437_0~Reference



11b_Ant1_2437_30~1000





11b_Ant1_2437_1000~26500



11b_Ant1_2462_0~Reference

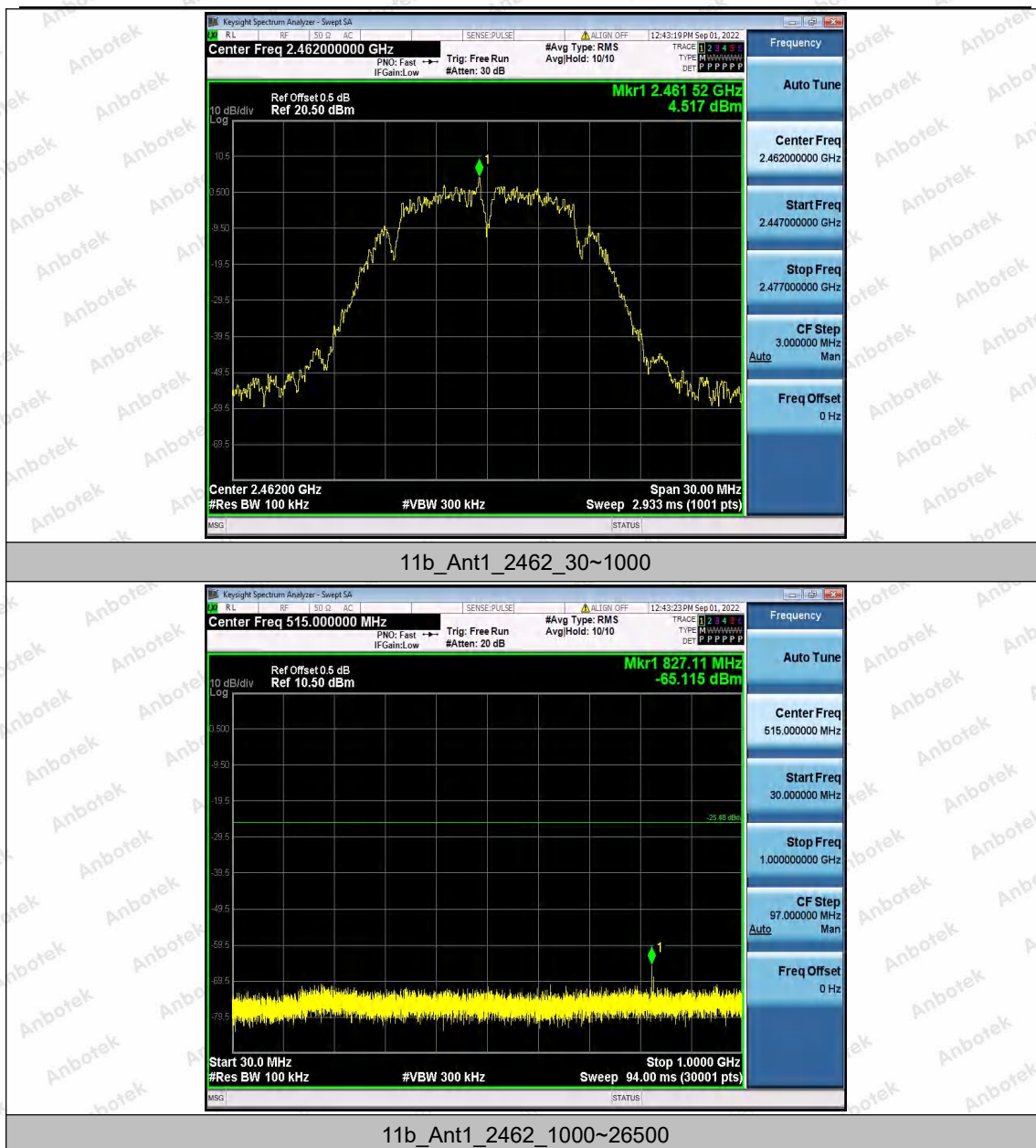
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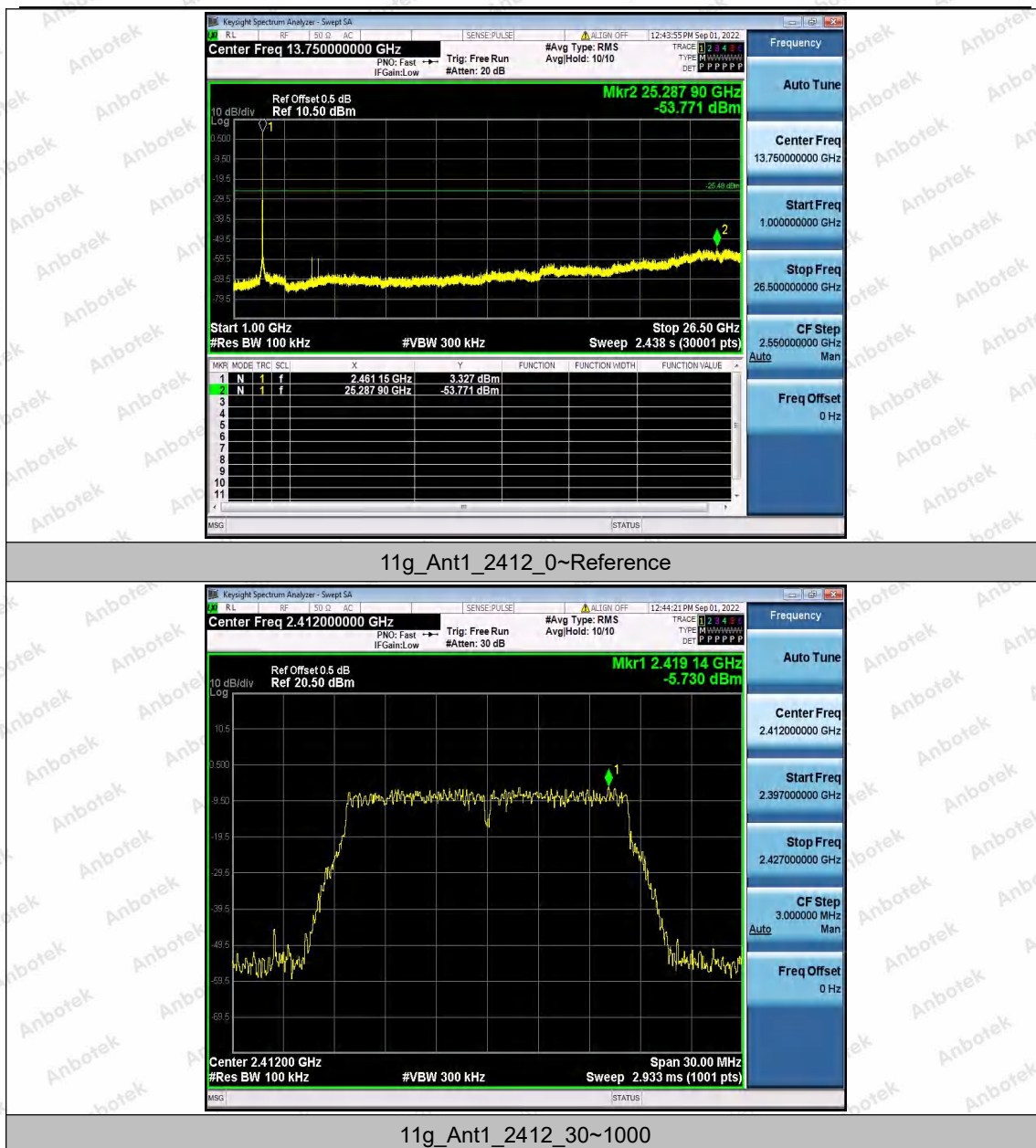
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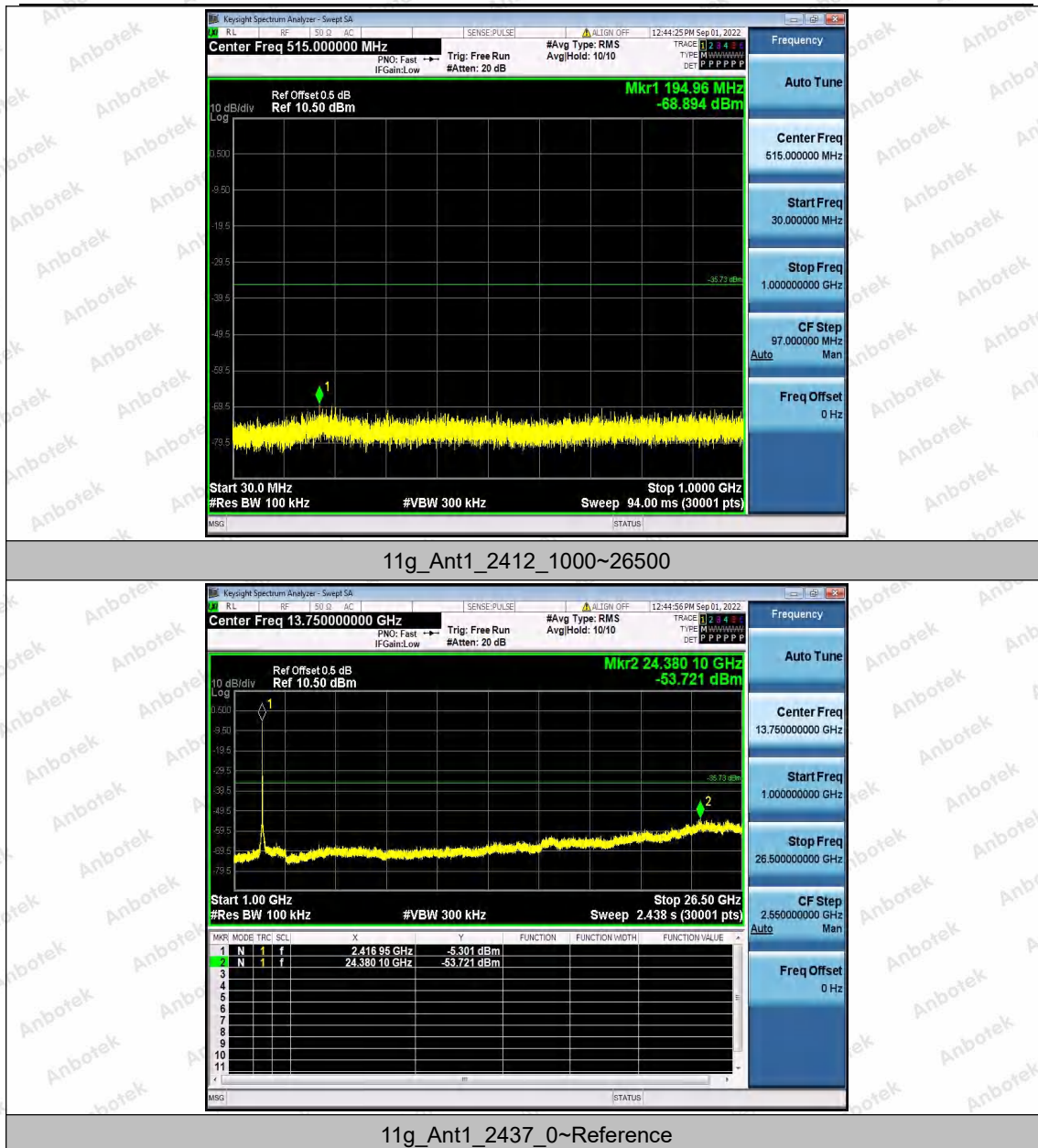
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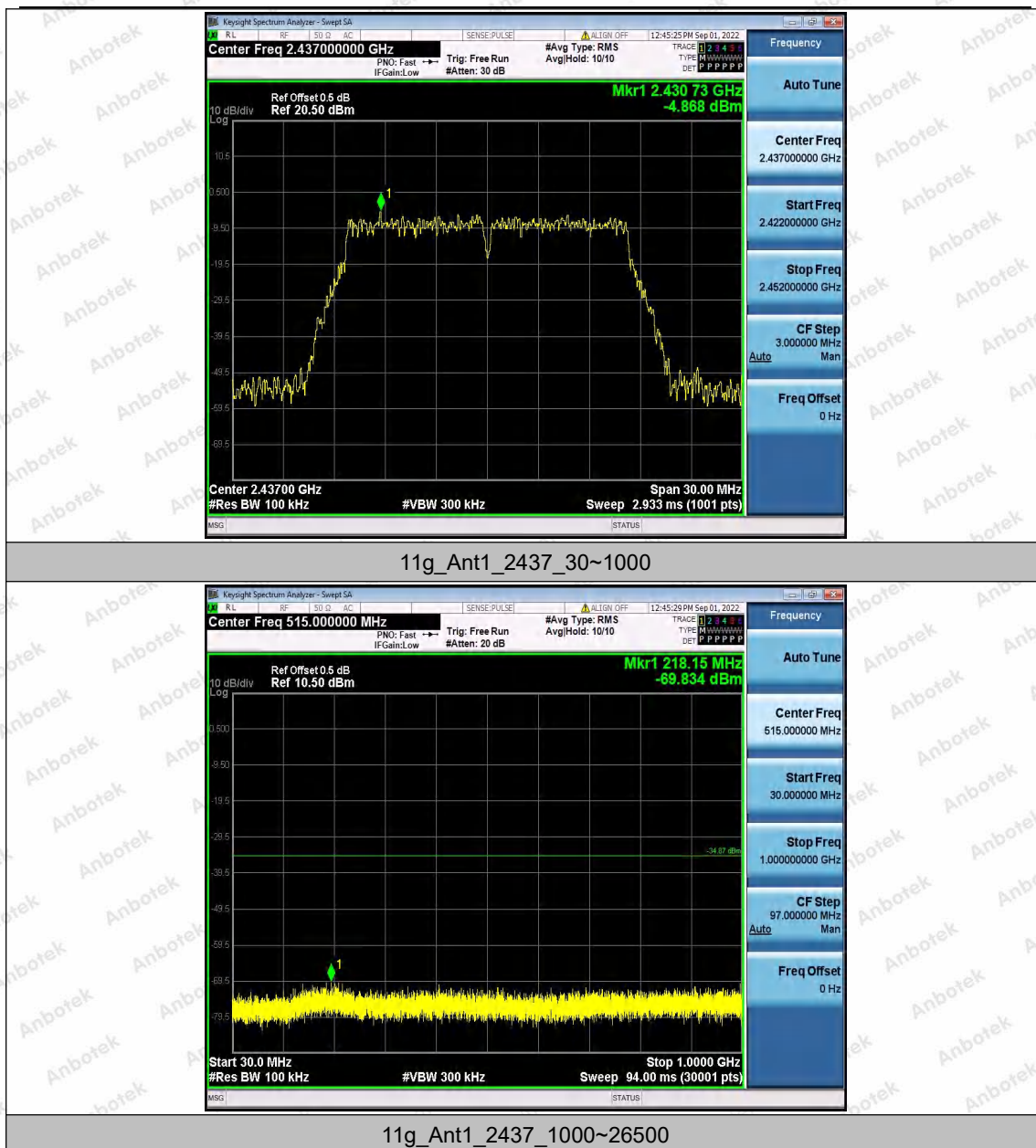
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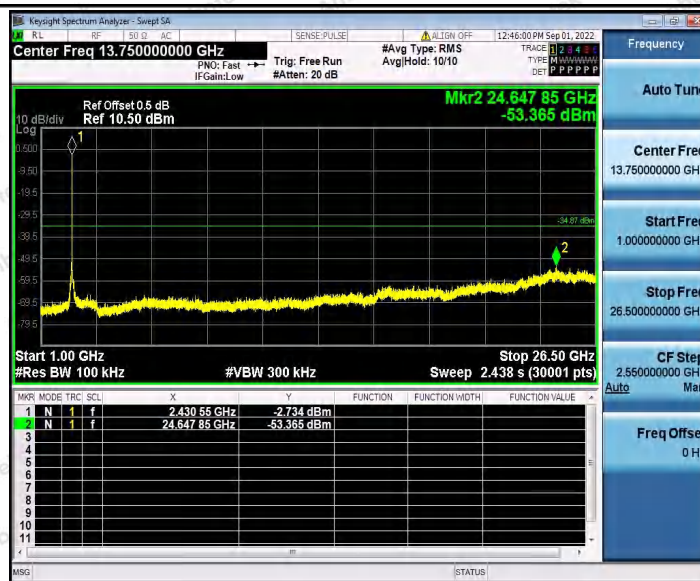
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11g_Ant1_2462_0~Reference



11g_Ant1_2462_30~1000

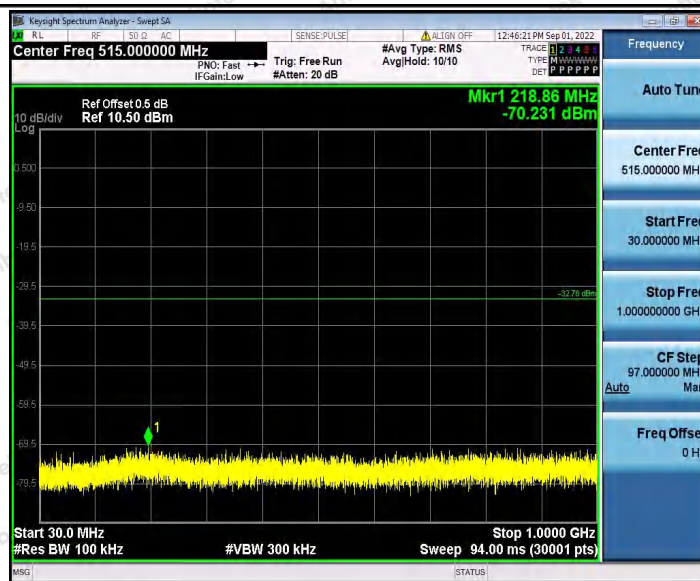
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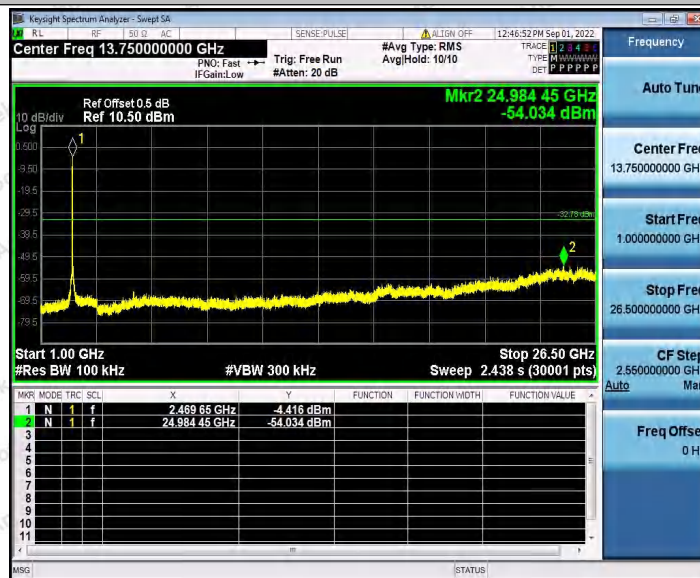


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11g_Ant1_2462_1000~26500



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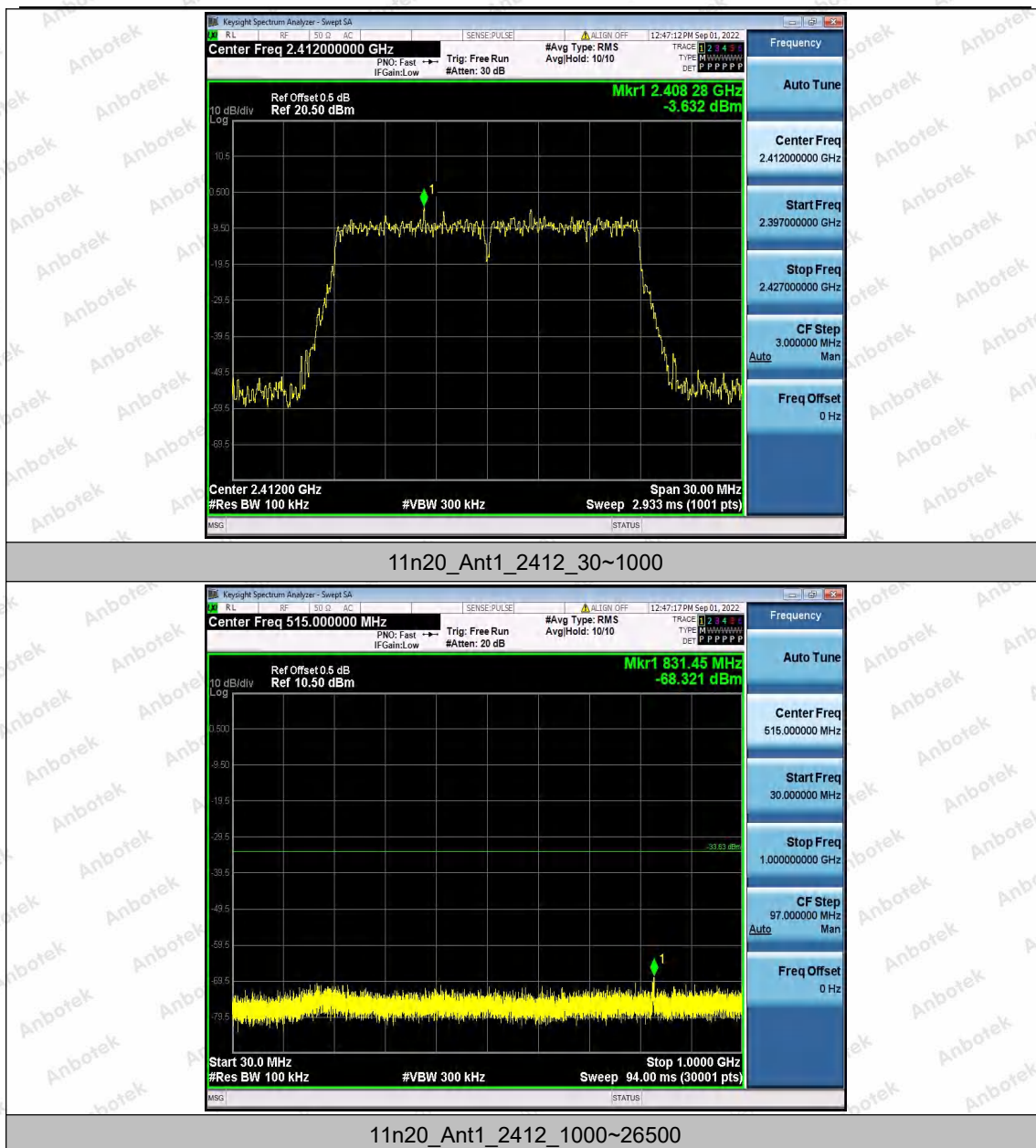
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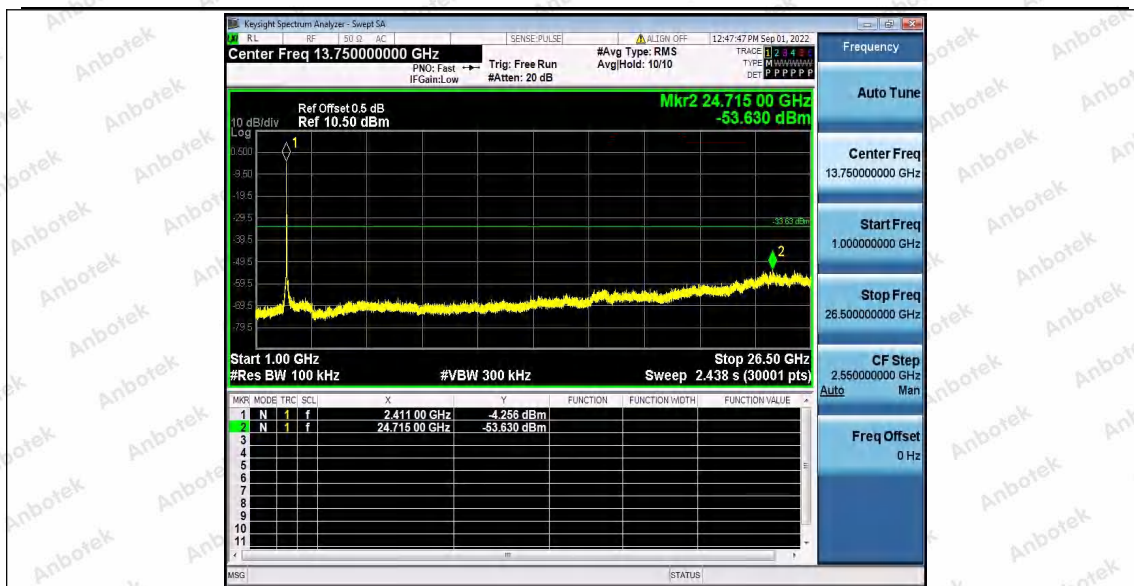
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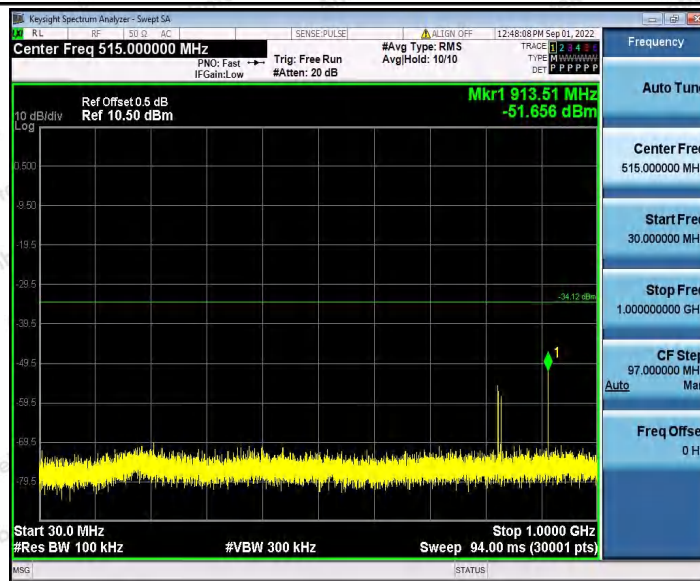


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11n20_Ant1_2437_30~1000





11n20_Ant1_2437_1000~26500



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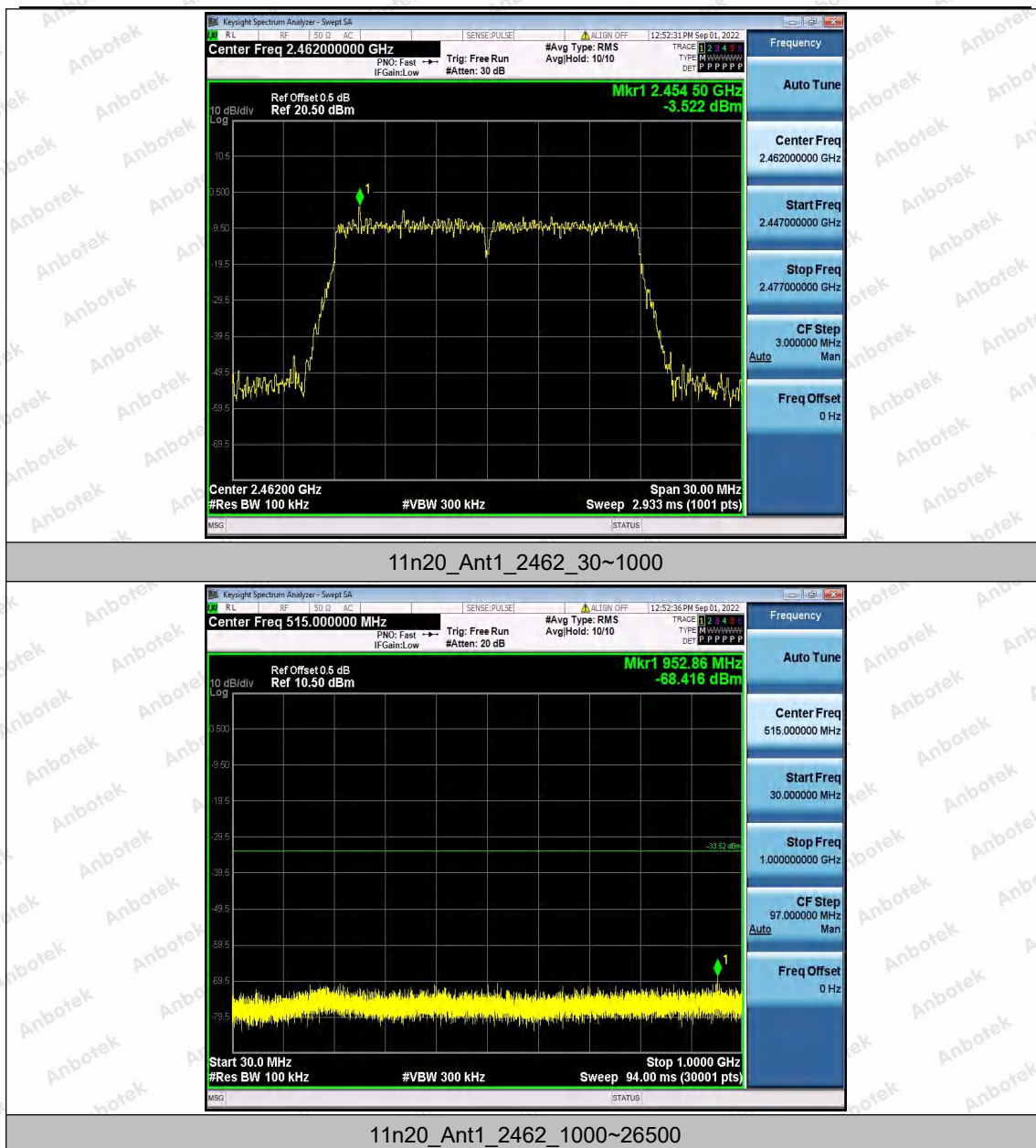
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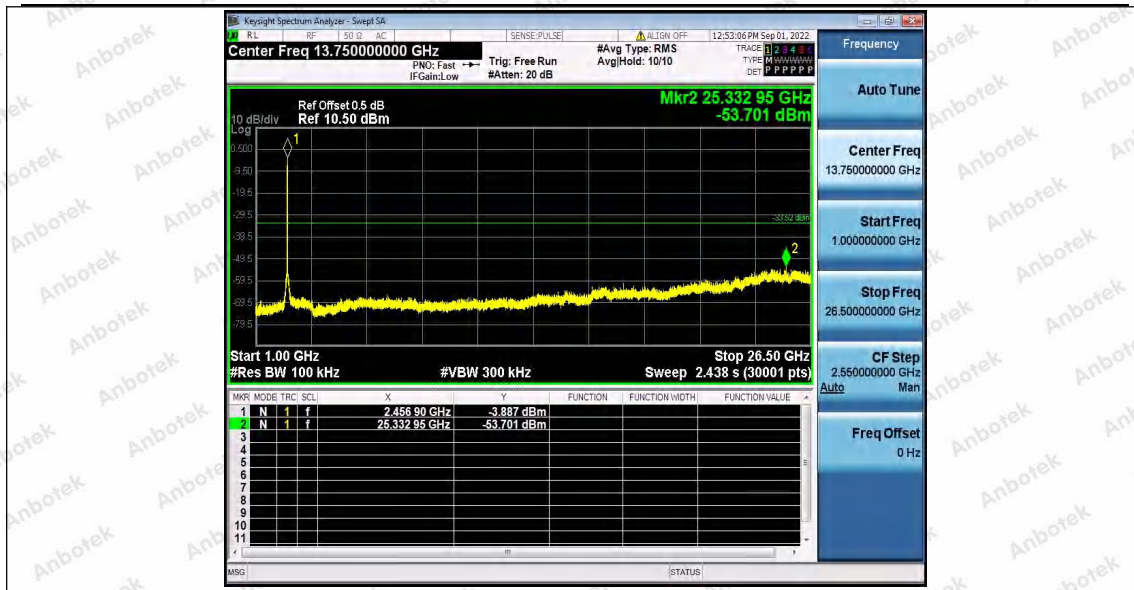
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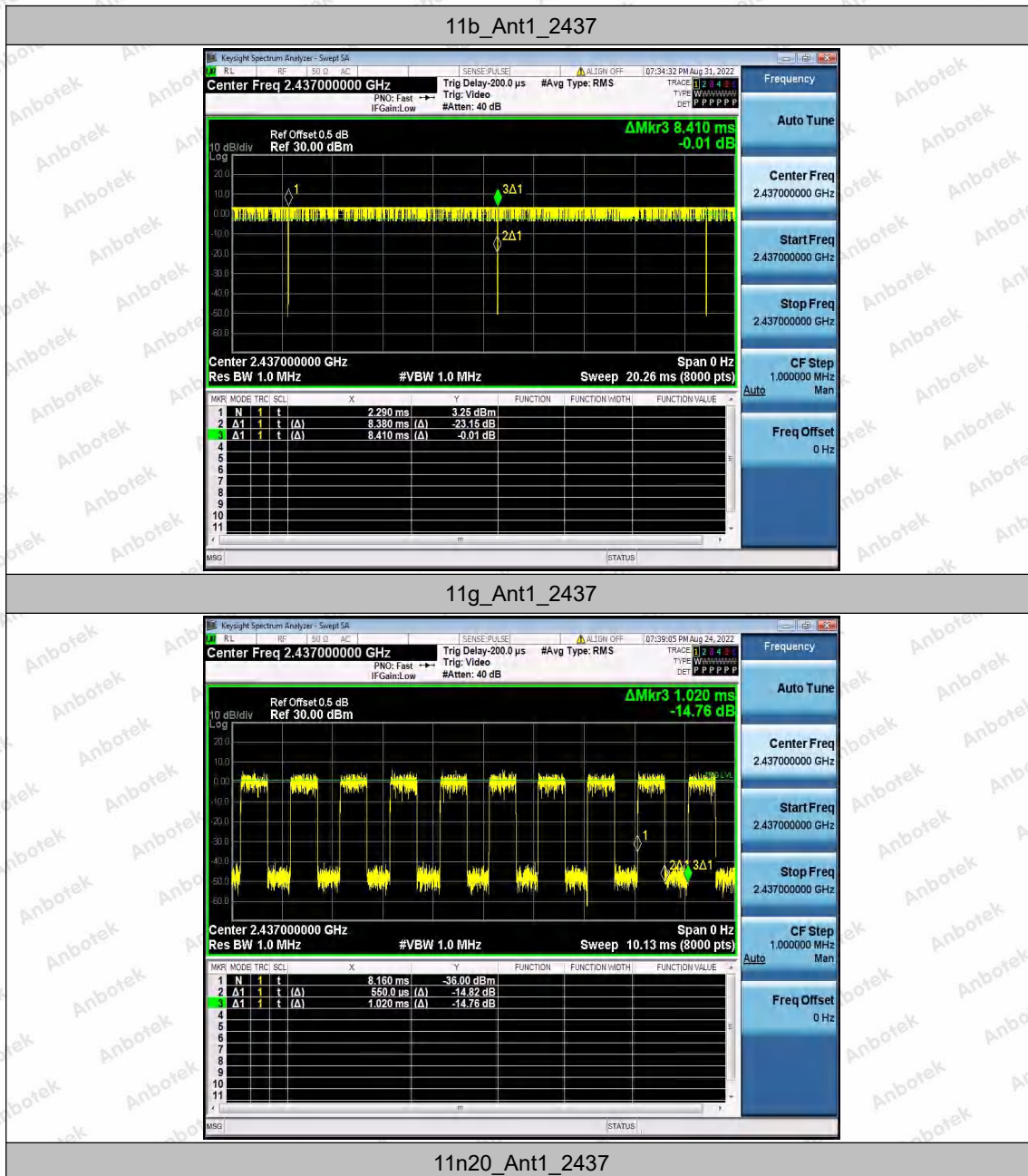
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b	Ant1	2437	8.38	8.41	99.64	0.02
11g	Ant1	2437	0.55	1.02	53.92	2.68
11n20	Ant1	2437	0.54	1.02	52.94	2.76



Test Graphs



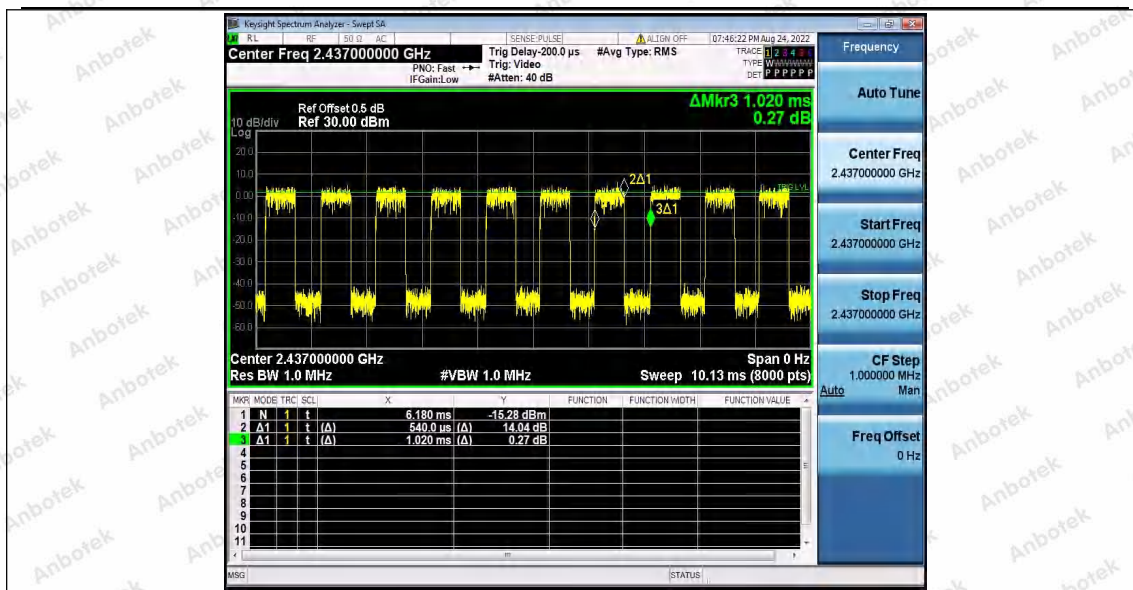
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