

Appendix Test Data

Report No.:	18220WC30007802	Test Sample No.:	1-2-2
Start Test Date:	2023.1.29	Finish Test Date:	2023.1.31
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	23.3℃	Relative Humidity:	40 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2402	2.130	2400.905	2403.035
		2440	2.043	2438.992	2441.035
		2480	2.115	2478.920	2481.035



Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2440



2.4G_Ant1_2480

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2402	2.0959	2400.9297	2403.0256
		2440	2.1265	2438.9353	2441.0618
		2480	2.1913	2478.9045	2481.0958



Test Graphs



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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2402	-1.29	≤30	PASS
		2440	-1.1	≤30	PASS
		2480	-0.55	≤30	PASS



Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2440



2.4G_Ant1_2480

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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.995	≥1.420	PASS



Test Graphs



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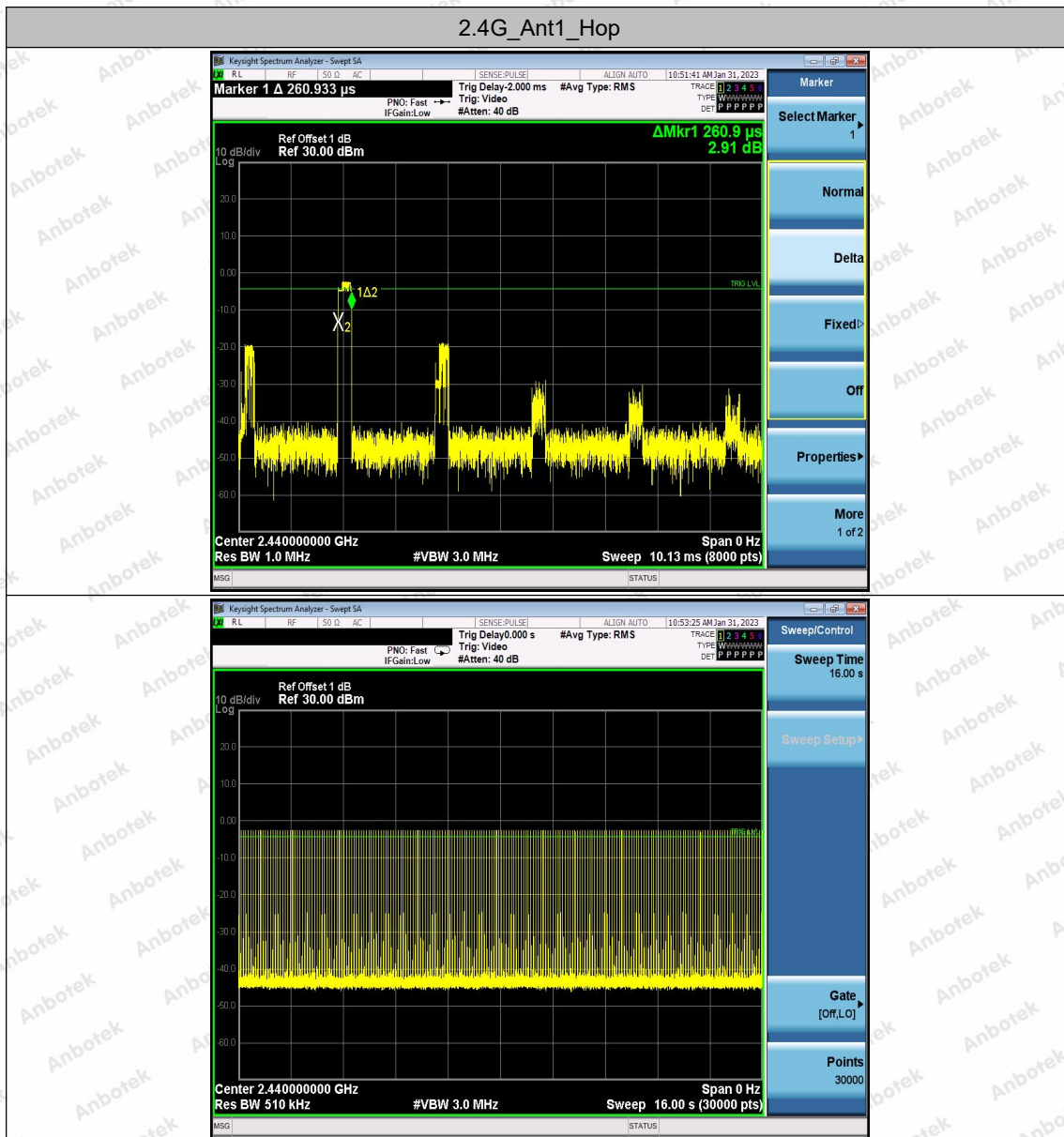
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.261	213	0.056	≤0.4	PASS



Test Graphs



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Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	40	≥15	PASS



Appendix G: Band edge measurements

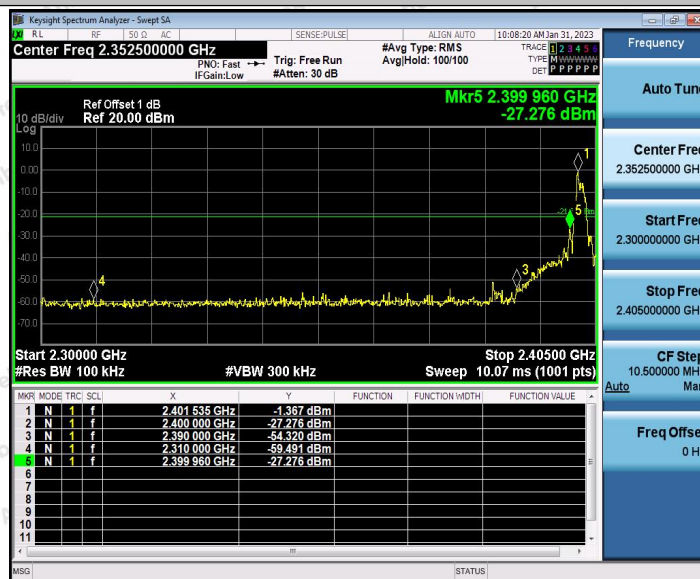
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2402	-1.37	-27.28	≤-21.37	PASS
		High	2480	-0.72	-36.72	≤-20.72	PASS
		Low	Hop_2402	-1.52	-51.89	≤-21.52	PASS
		High	Hop_2480	-0.72	-52.11	≤-20.72	PASS

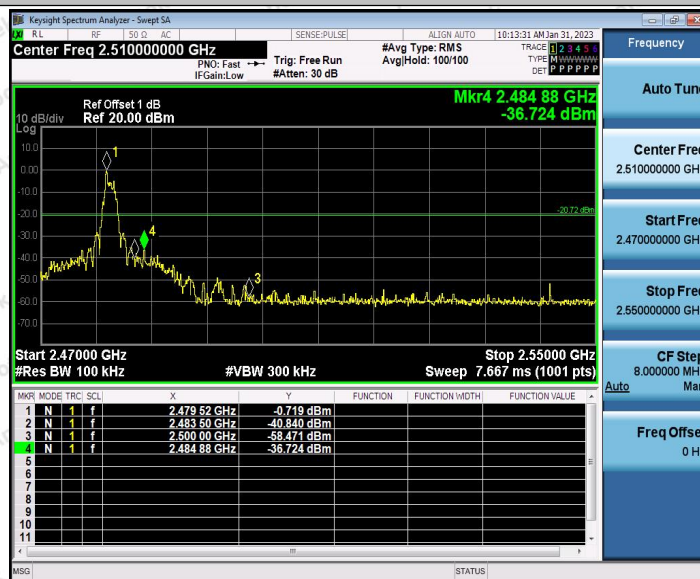


Test Graphs

2.4G_Ant1_Low_2402



2.4G_Ant1_High_2480



2.4G_Ant1_Low_Hop_2402

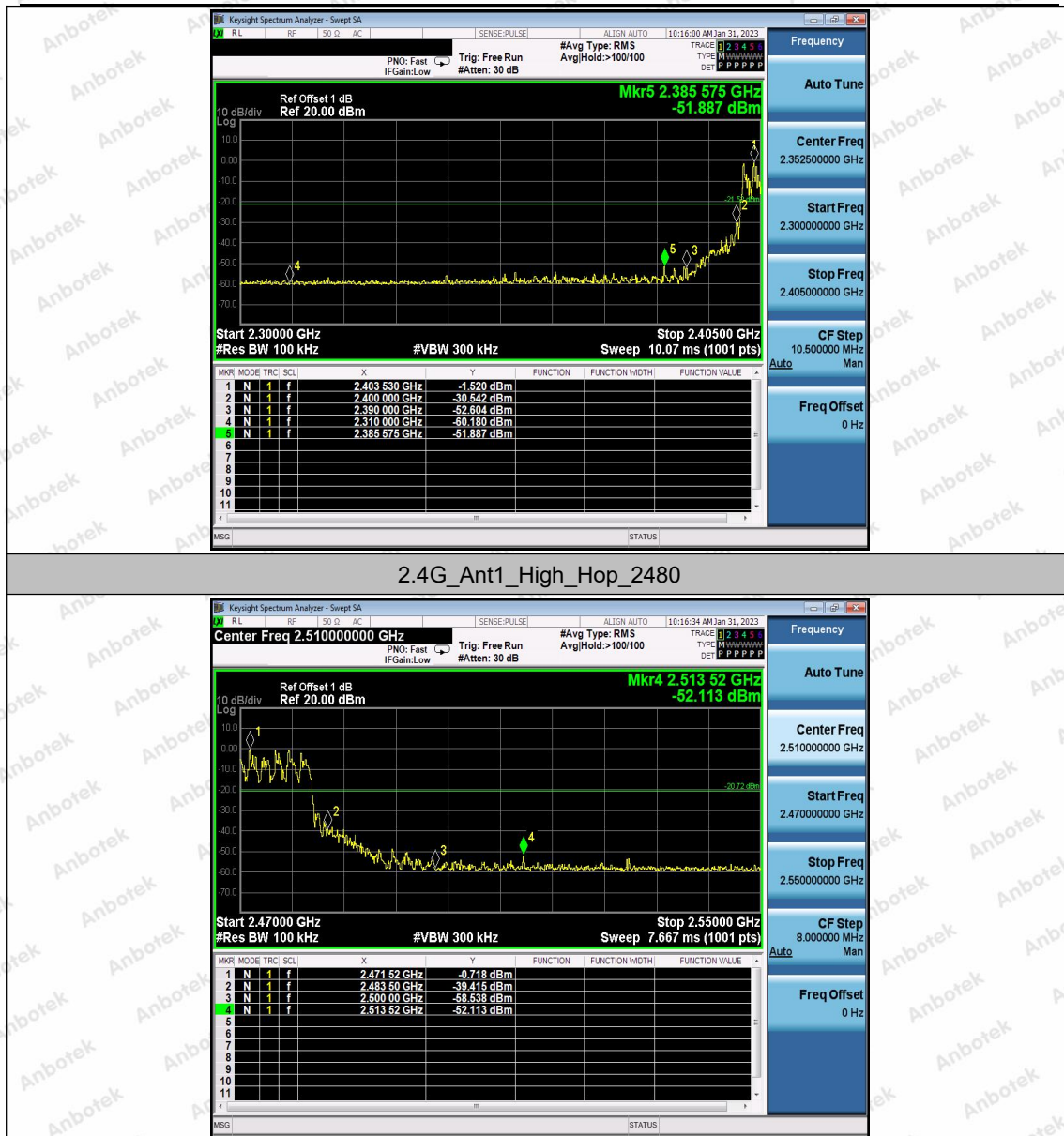
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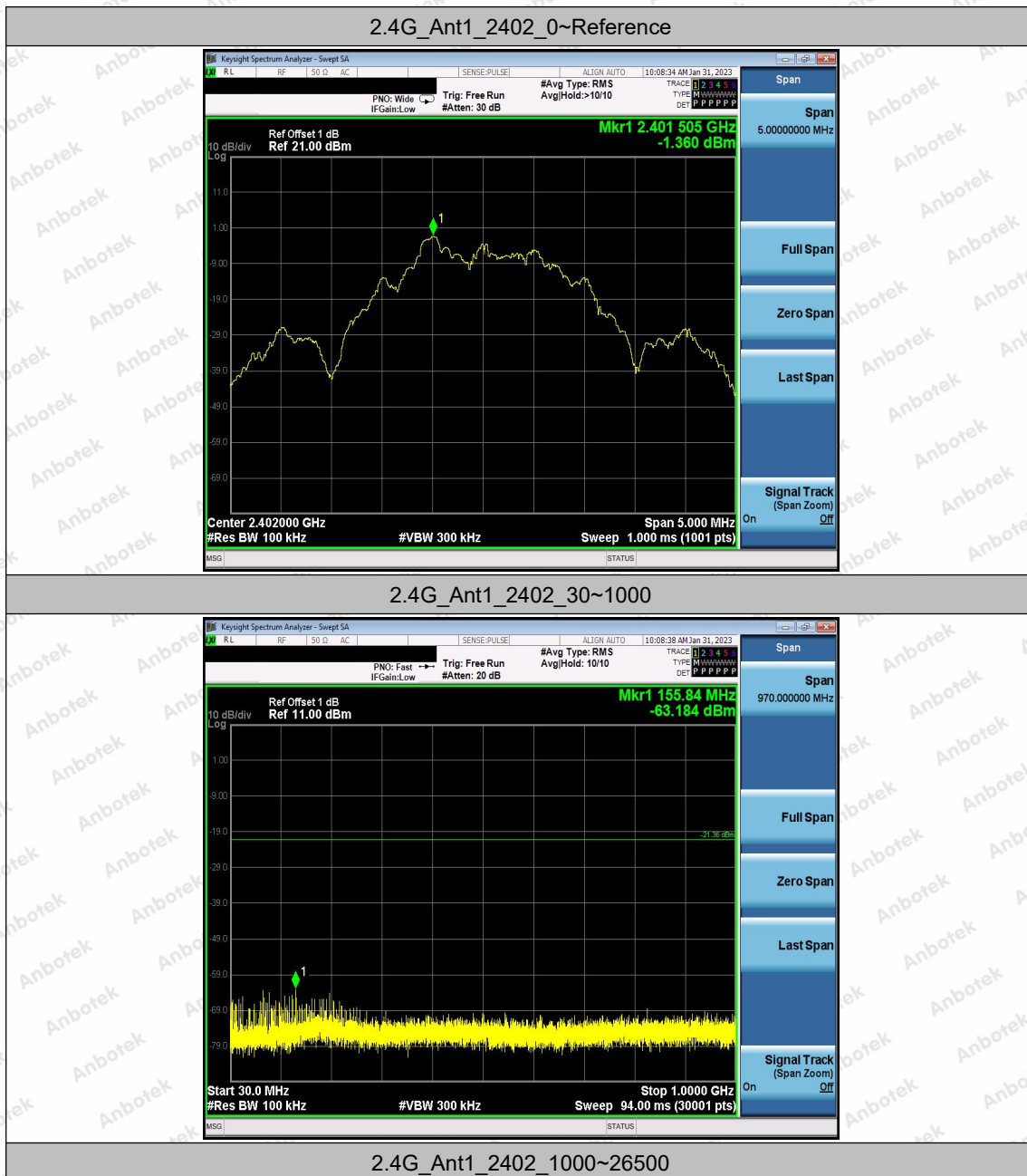
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2402	Reference	-1.36	-1.36	---	PASS
			30~1000	-1.36	-63.18	≤-21.36	PASS
			1000~26500	-1.36	-43.08	≤-21.36	PASS
		2440	Reference	-1.62	-1.62	---	PASS
			30~1000	-1.62	-61.9	≤-21.62	PASS
			1000~26500	-1.62	-47.01	≤-21.62	PASS
		2480	Reference	-0.68	-0.68	---	PASS
			30~1000	-0.68	-63.21	≤-20.68	PASS
			1000~26500	-0.68	-45.06	≤-20.68	PASS



Test Graphs



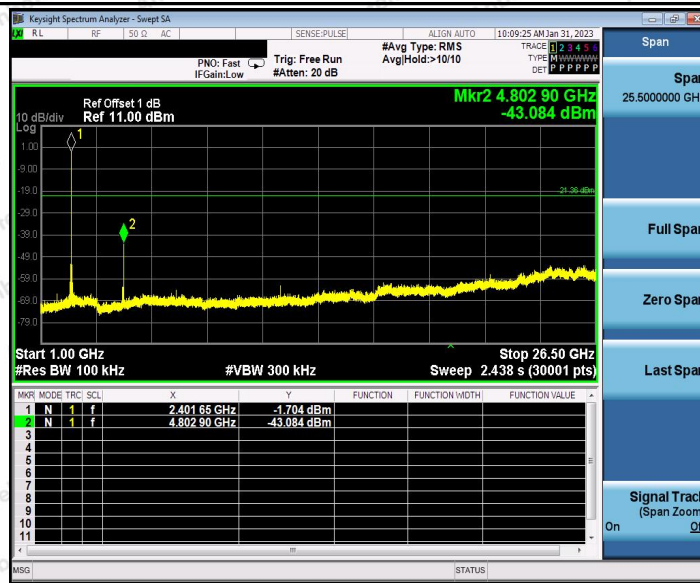
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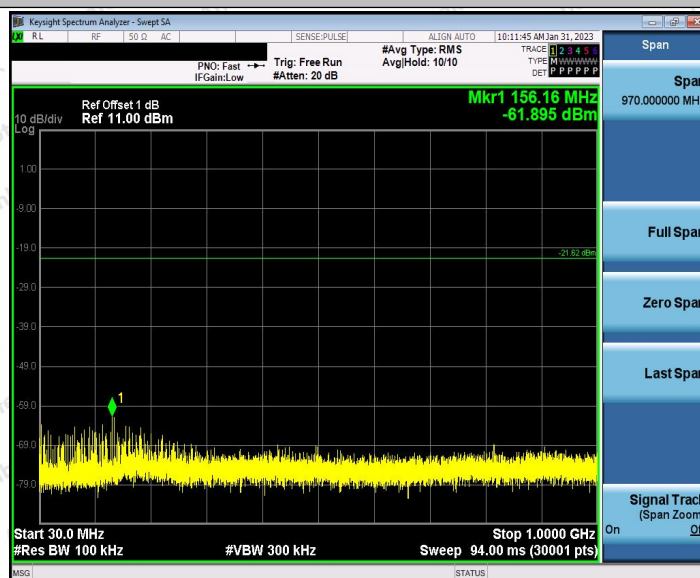




2.4G_Ant1_2440_0~Reference



2.4G_Ant1_2440_30~1000



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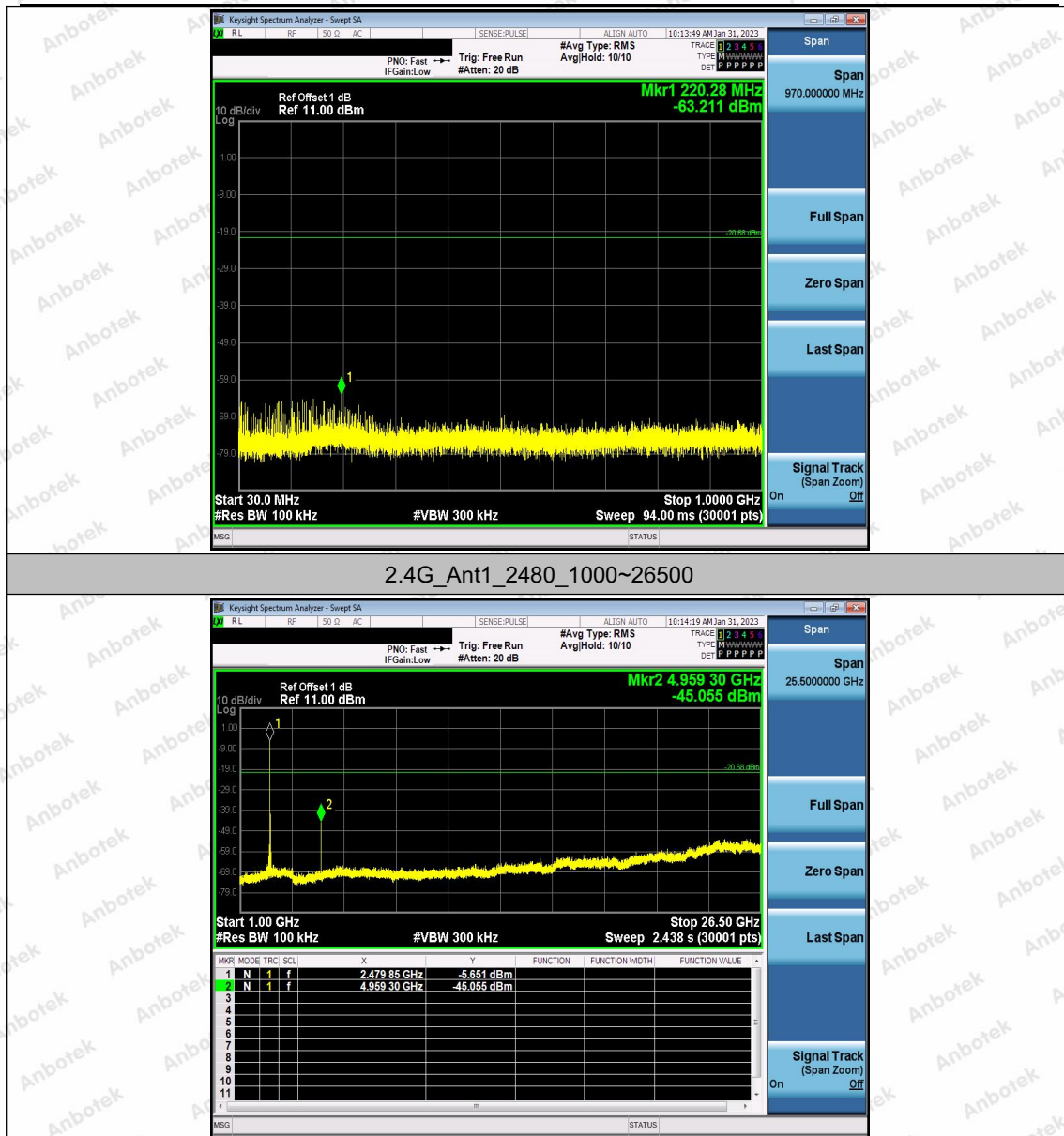
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Appendix I: Duty Cycle

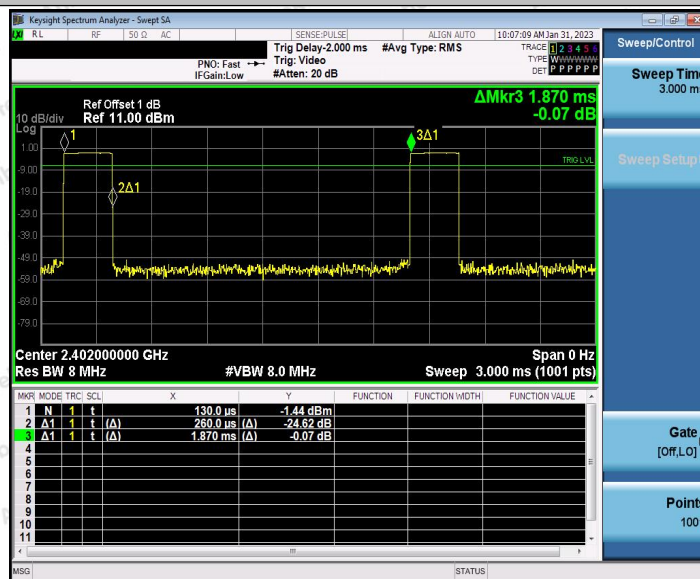
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402	0.26	1.87	13.90	8.57
		2440	0.26	1.86	13.98	8.54
		2480	0.26	1.92	13.54	8.68

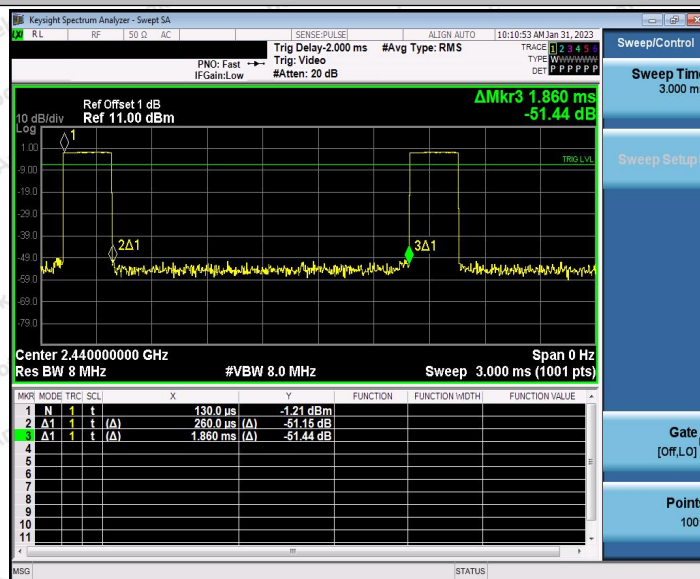


Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2440



2.4G_Ant1_2480

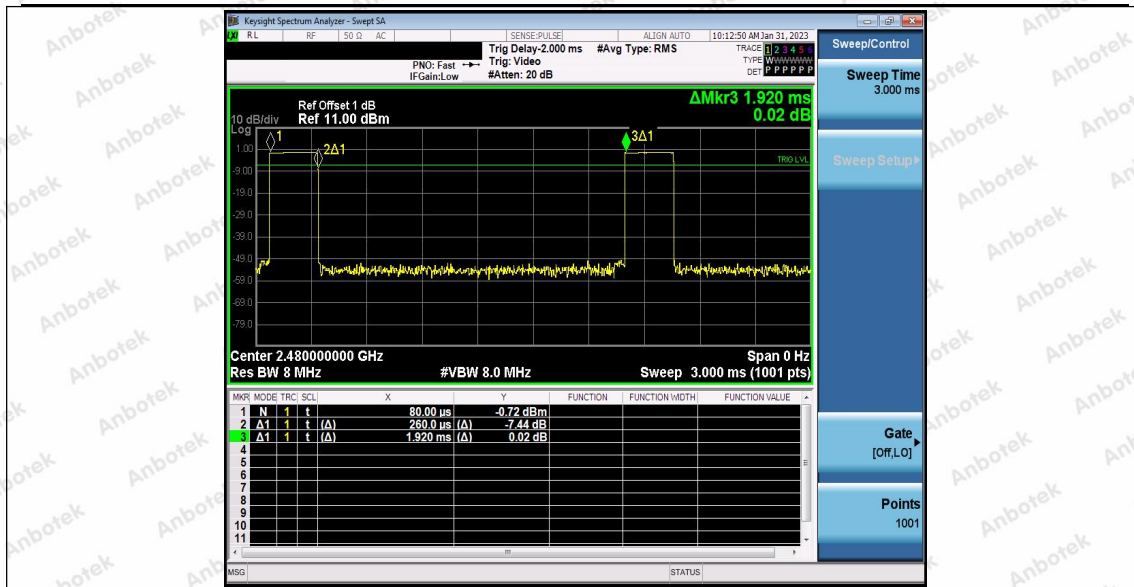
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