

Appendix Test Data

Report No.:	18220WC30077201	Test Sample No.:	1-2-2
Start Test Date:	2023.07.13	Finish Test Date:	2023.07.13
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	26.2°C	Relative Humidity:	49%
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403.94	0.098	2403.897	2403.994	---	---
		2438.44	0.097	2438.387	2438.485	---	---
		2472.94	0.097	2472.878	2472.976	---	---



Test Graphs

2.4G_Ant1_2403.94



2.4G_Ant1_2438.44



2.4G_Ant1_2472.94

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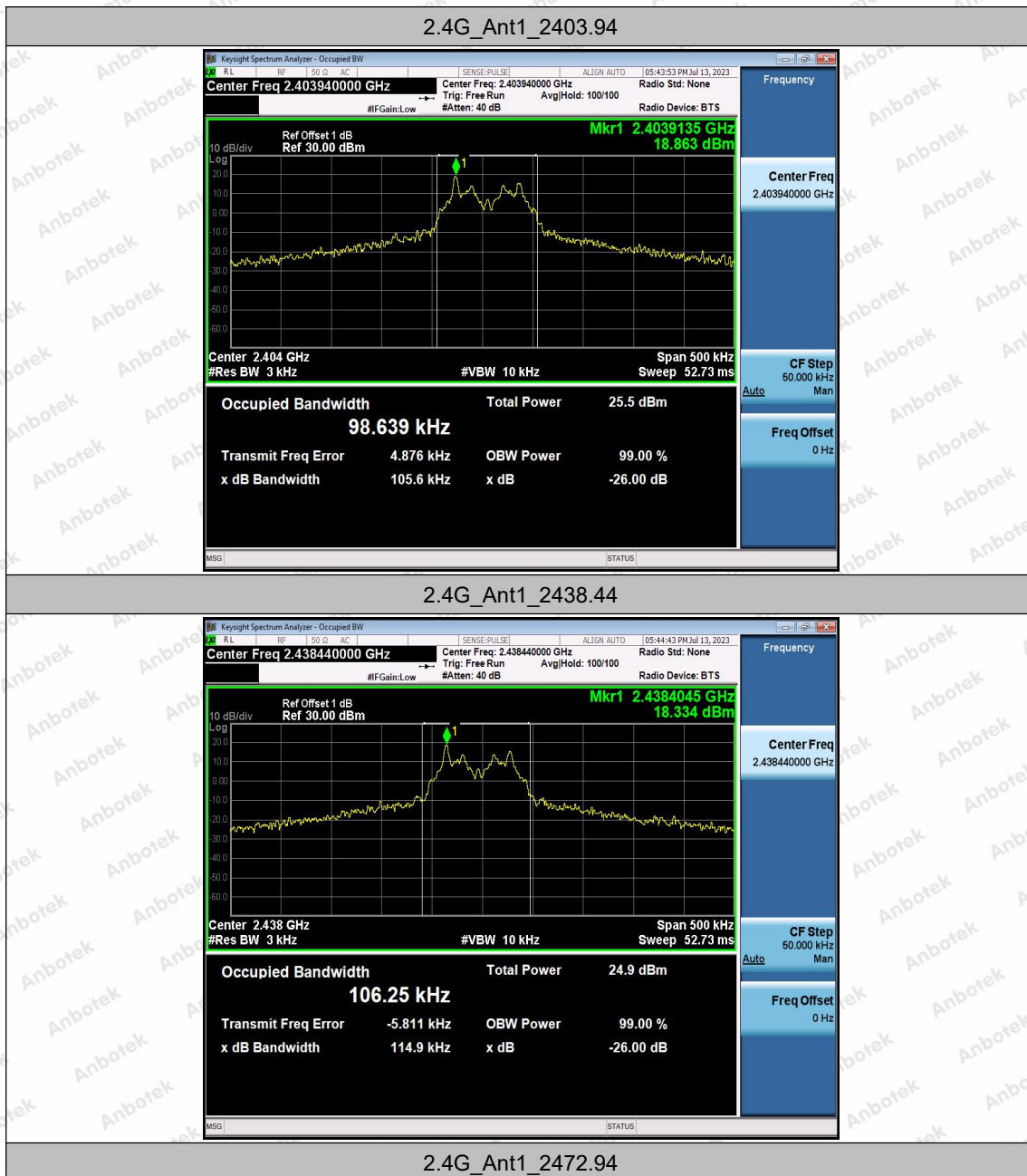
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403.94	0.09864	2403.8956	2403.9942	---	---
		2438.44	0.10625	2438.3811	2438.4873	---	---
		2472.94	0.09774	2472.8780	2472.9757	---	---



Test Graphs



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Appendix C: Maximum conducted output power

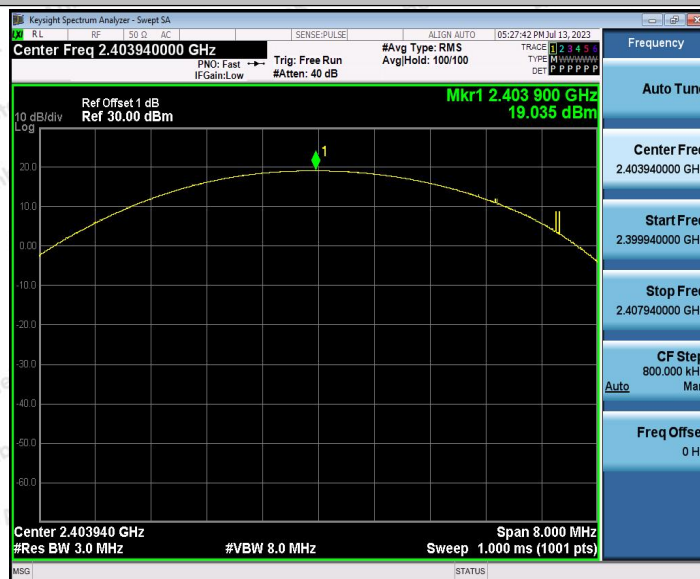
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2403.94	19.04	≤30	PASS
		2438.44	18.42	≤30	PASS
		2472.94	18.15	≤30	PASS



Test Graphs

2.4G_Ant1_2403.94



2.4G_Ant1_2438.44



2.4G_Ant1_2472.94

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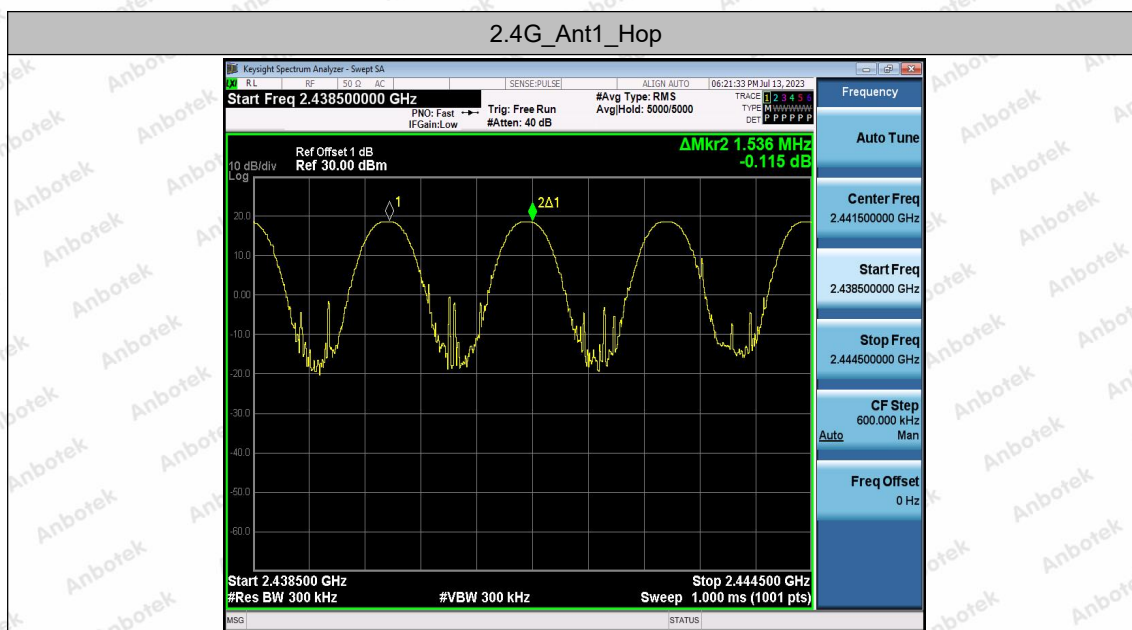
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.536	≥0.098	PASS



Test Graphs



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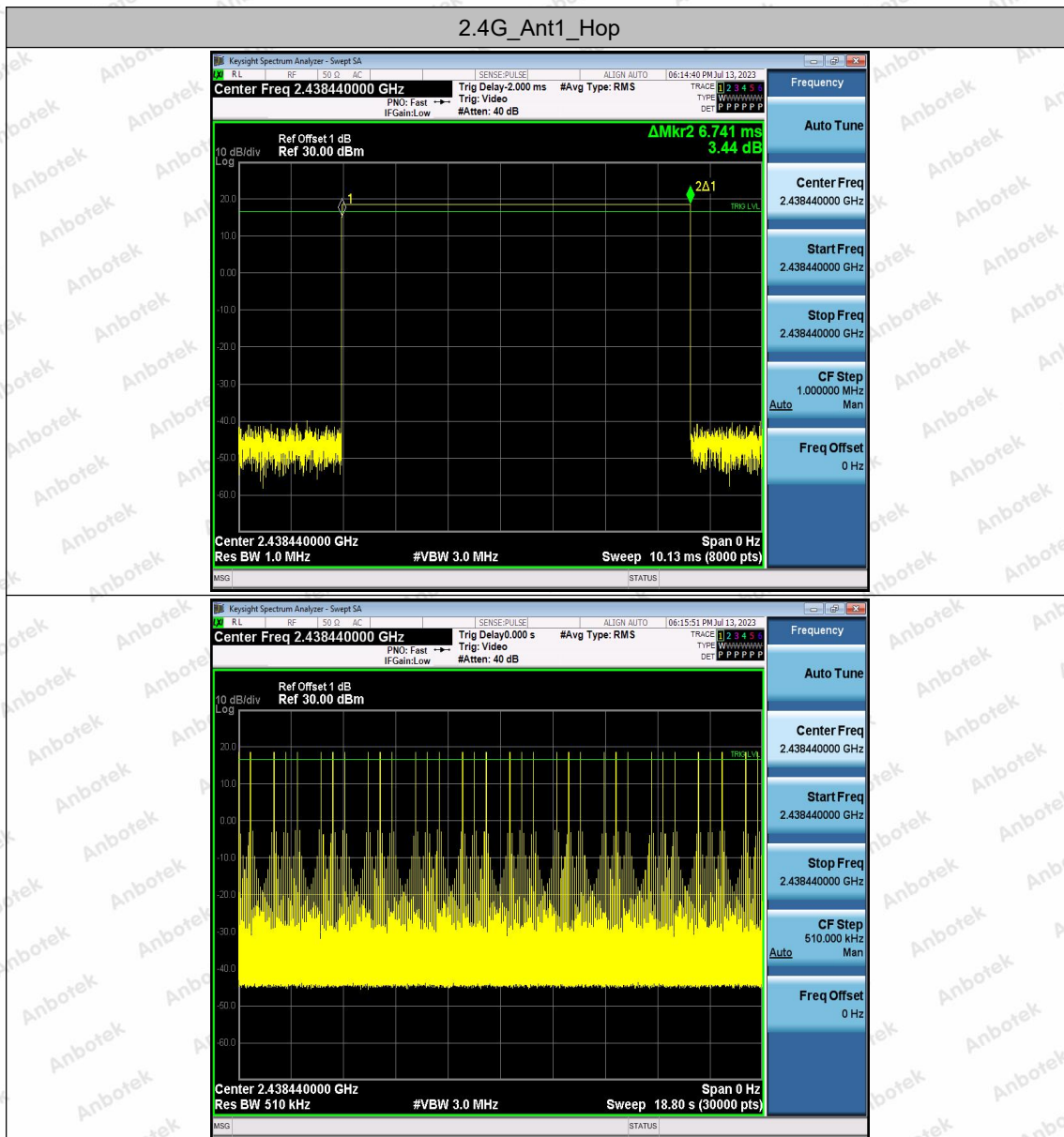
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	6.741	34	0.229	≤0.4	PASS



Test Graphs



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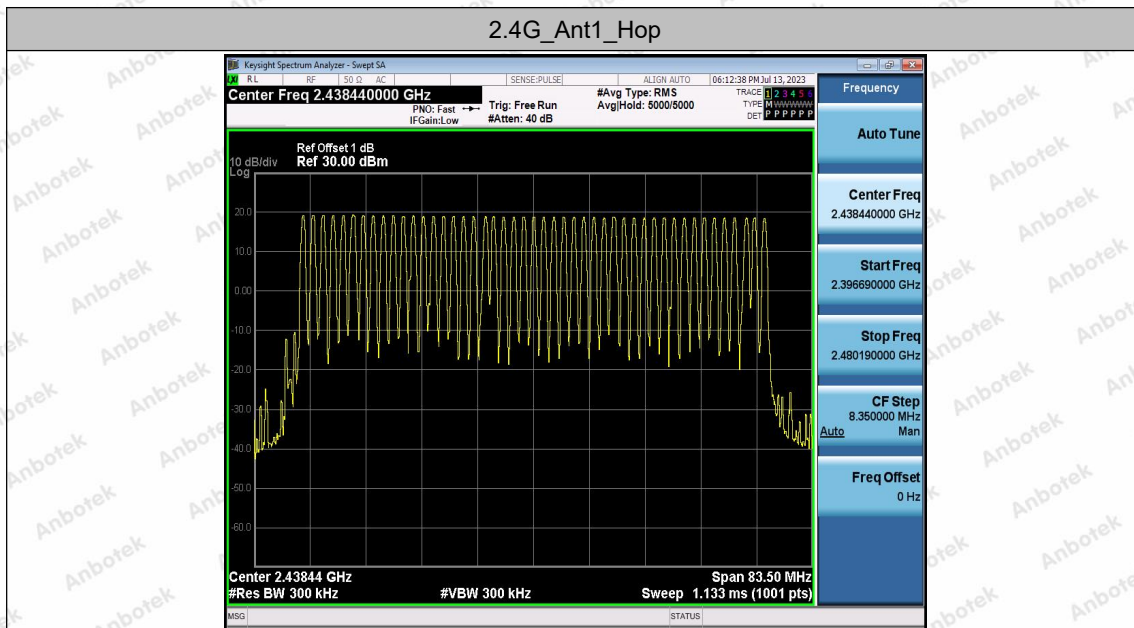
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	47	≥15	PASS



Test Graphs



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Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403.94	19.28	-25.96	≤ -0.73	PASS
		High	2472.94	18.40	-35.28	≤ -1.6	PASS
		Low	Hop_2403.94	19.33	-33.54	≤ -0.67	PASS
		High	Hop_2472.94	18.70	-34.26	≤ -1.3	PASS

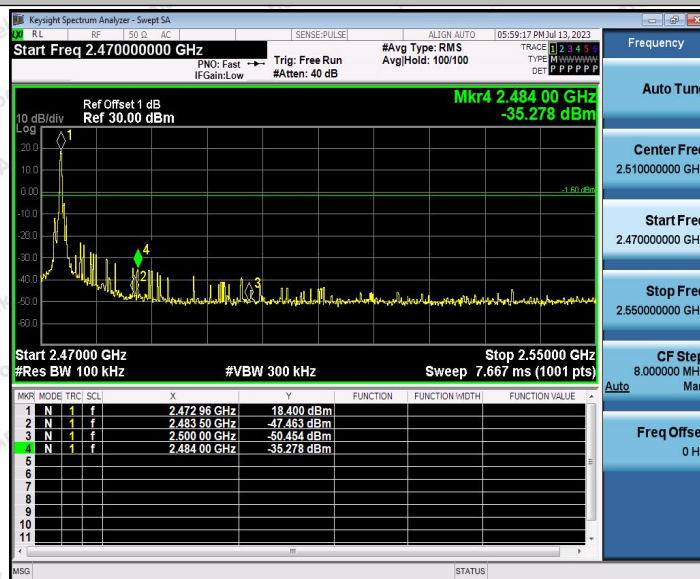


Test Graphs

2.4G_Ant1_Low_2403.94



2.4G_Ant1_High_2472.94



2.4G_Ant1_Low_Hop_2403.94

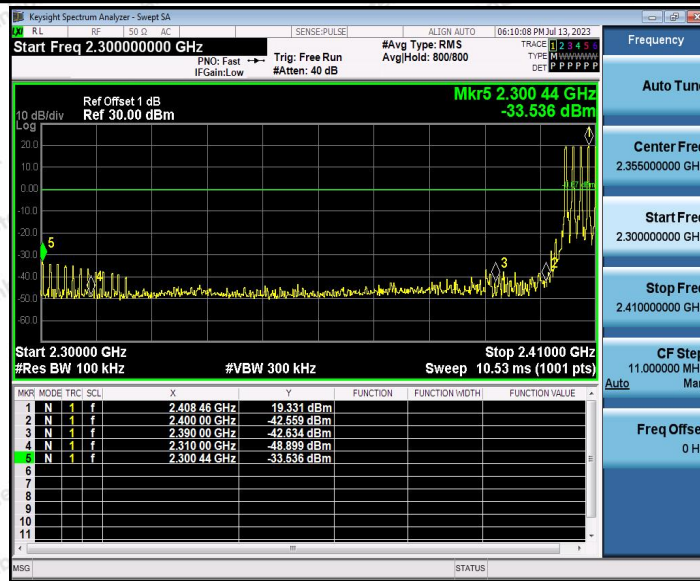
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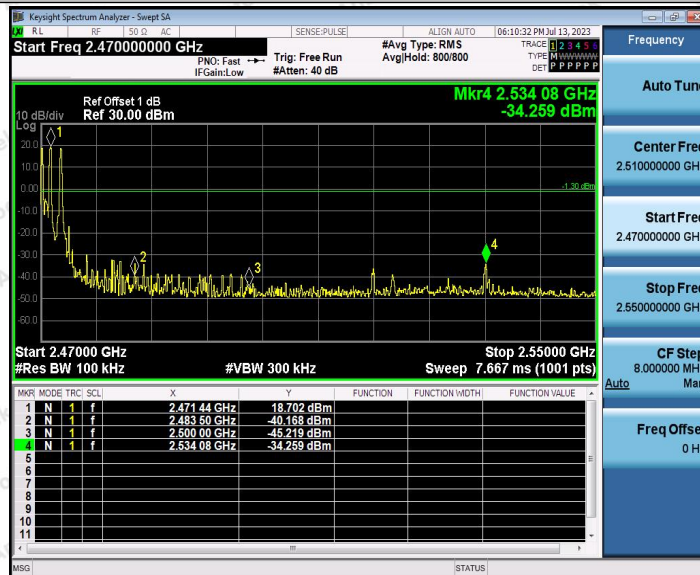


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2.4G_Ant1_High_Hop_2472.94



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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	2403.94	Reference	18.88	18.88	---	PASS
			30~1000	18.88	-54.35	≤-1.12	PASS
			1000~26500	18.88	-27.2	≤-1.12	PASS
		2438.44	Reference	18.40	18.40	---	PASS
			30~1000	18.40	-53.72	≤-1.6	PASS
			1000~26500	18.40	-26.52	≤-1.6	PASS
		2472.94	Reference	18.09	18.09	---	PASS
			30~1000	18.09	-52.1	≤-1.91	PASS
			1000~26500	18.09	-25.22	≤-1.91	PASS

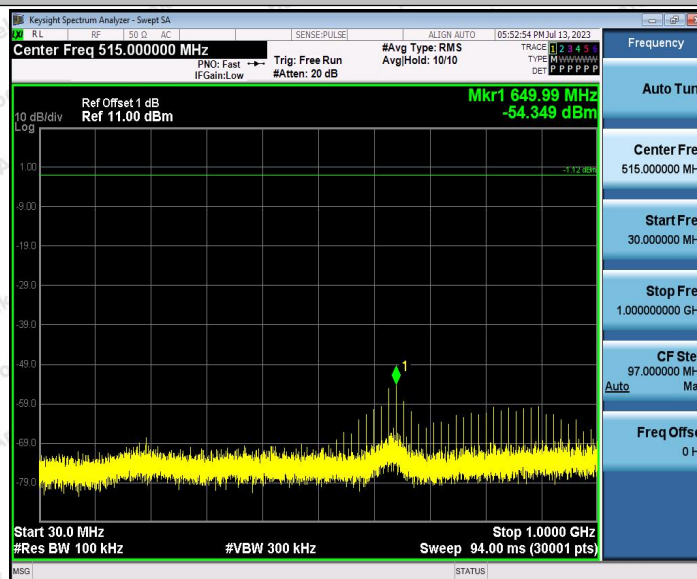


Test Graphs

2.4G_Ant1_2403.94_0~Reference



2.4G_Ant1_2403.94_30~1000



2.4G_Ant1_2403.94_1000~26500

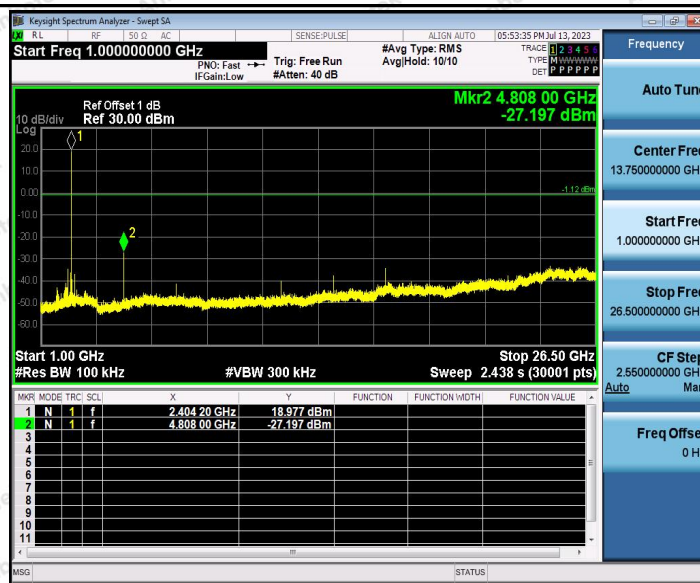
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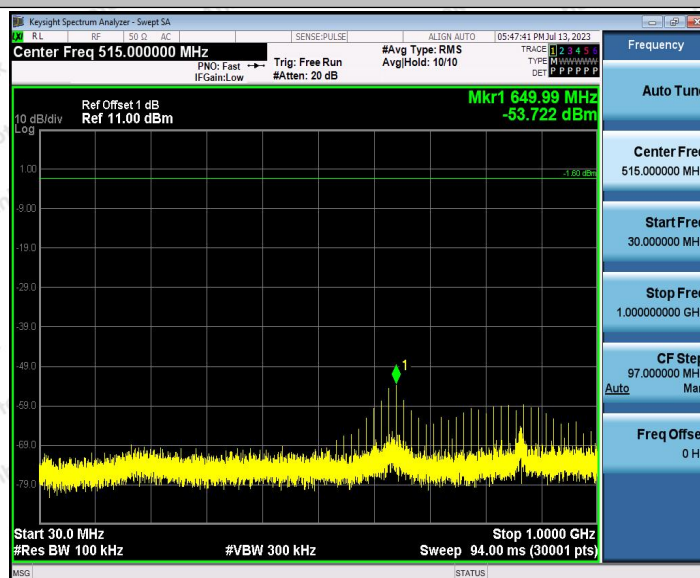




2.4G_Ant1_2438.44_0~Reference



2.4G_Ant1_2438.44_30~1000



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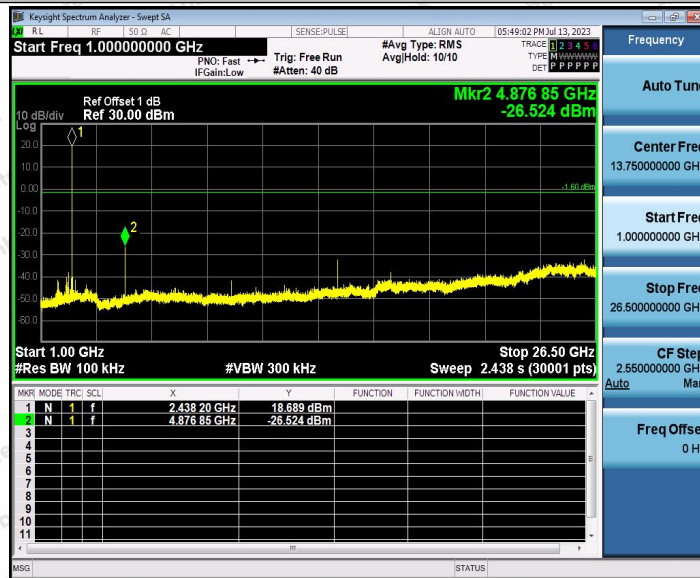
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2.4G_Ant1_2438.44_1000~26500



2.4G_Ant1_2472.94_0~Reference



2.4G_Ant1_2472.94_30~1000

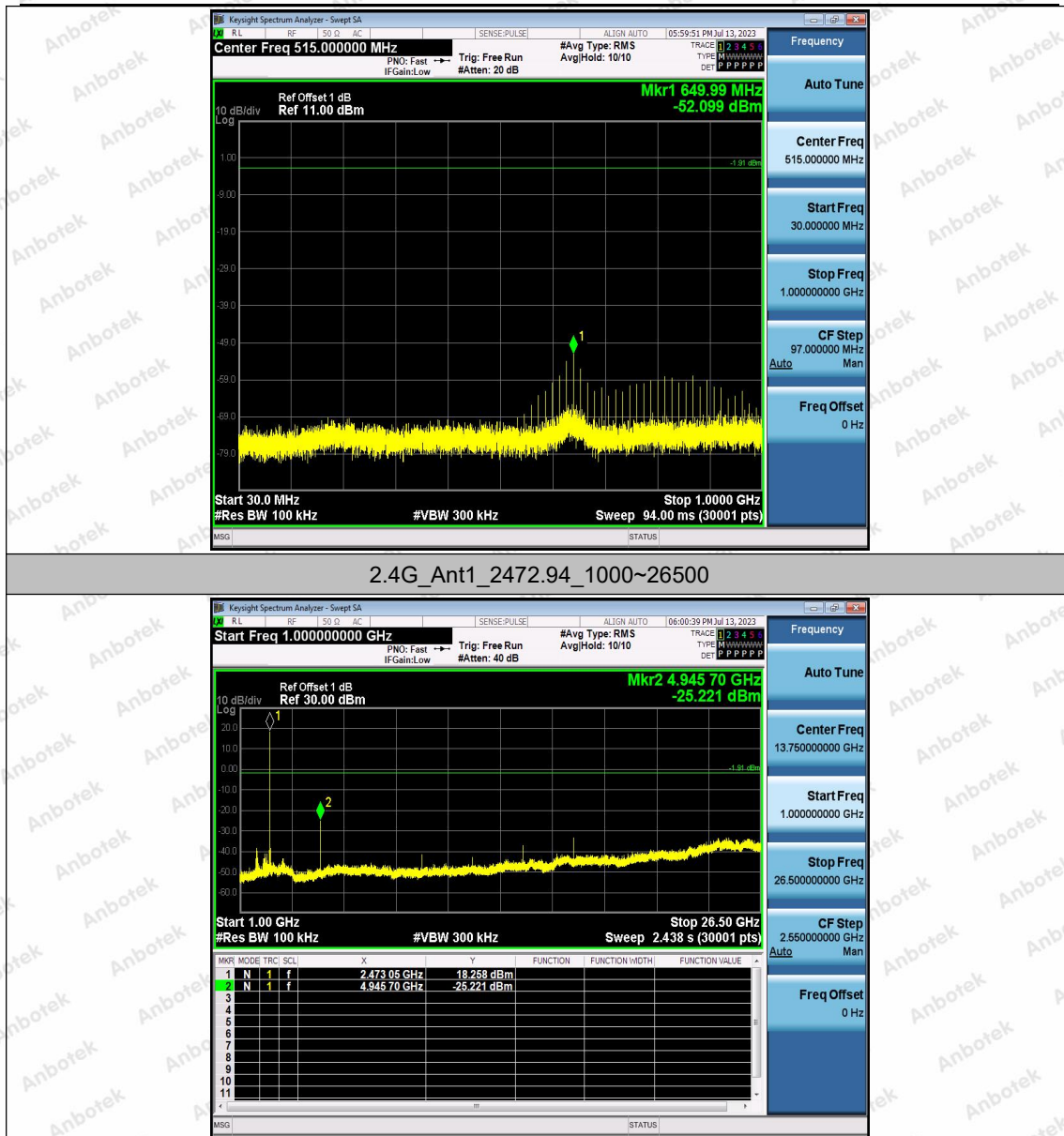
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Appendix I: Duty Cycle

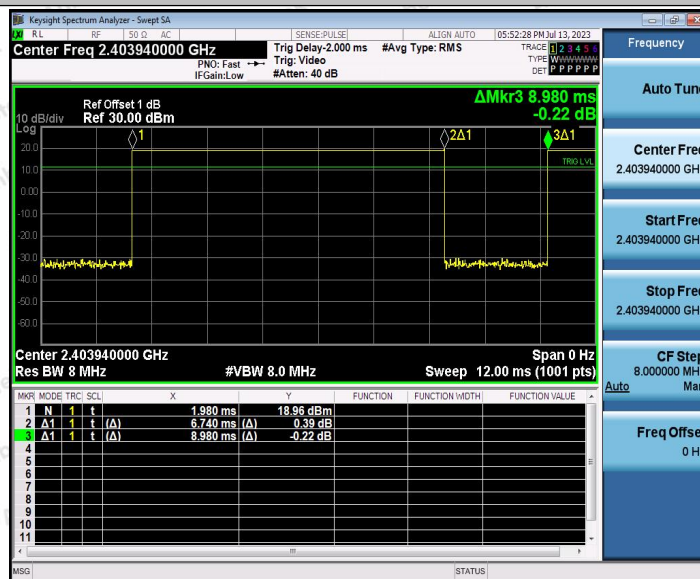
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403.94	6.74	8.98	75.06	1.25
		2438.44	6.74	8.98	75.06	1.25
		2472.94	6.73	8.98	74.94	1.25

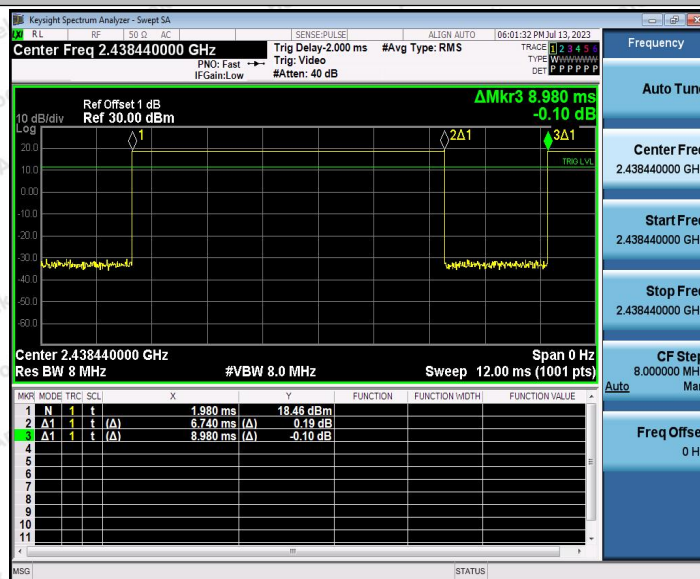


Test Graphs

2.4G_Ant1_2403.94



2.4G_Ant1_2438.44



2.4G_Ant1_2472.94

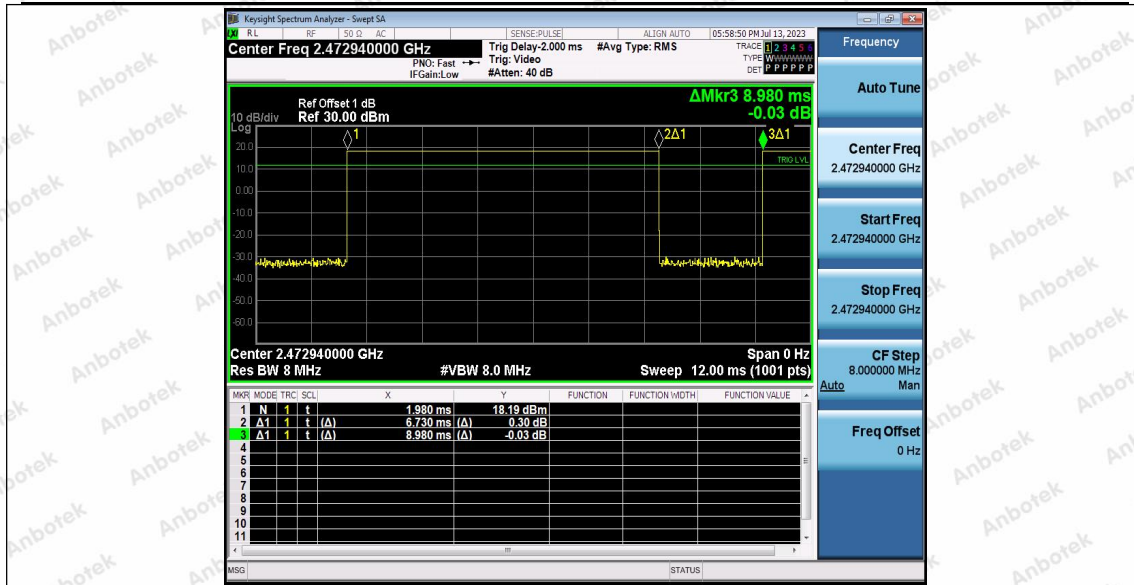
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