

Appendix Test Data

Report No.:	18220WC30184201	Test Sample No.:	1-2-2
Start Test Date:	2023.10.17	Finish Test Date:	2023.11.21
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.5°C	Relative Humidity:	43%
Pressure:	101kPa		

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	0.099	2403.883	2403.982	---	---
		2438.44	0.099	2438.373	2438.472	---	---
		2472.94	0.099	2472.864	2472.963	---	---



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	0.12583	2403.8675	2403.9933	---	---
		2438.44	0.14416	2438.3463	2438.4904	---	---
		2472.94	0.15387	2472.8354	2472.9893	---	---

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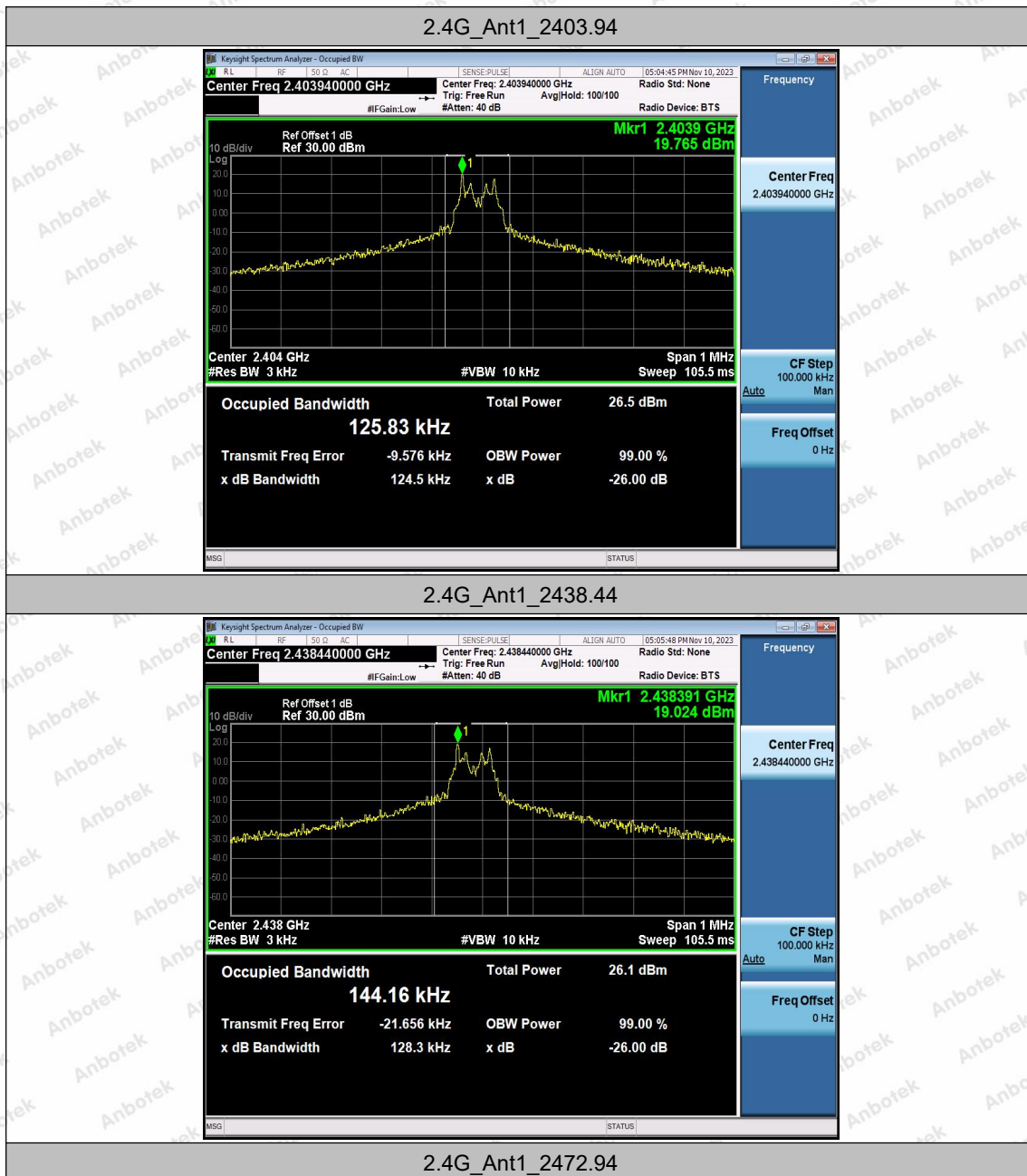
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Test Graphs



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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	20.18	≤30	PASS
		2438.44	19.50	≤30	PASS
		2472.94	18.83	≤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	1.500	≥0.099	PASS

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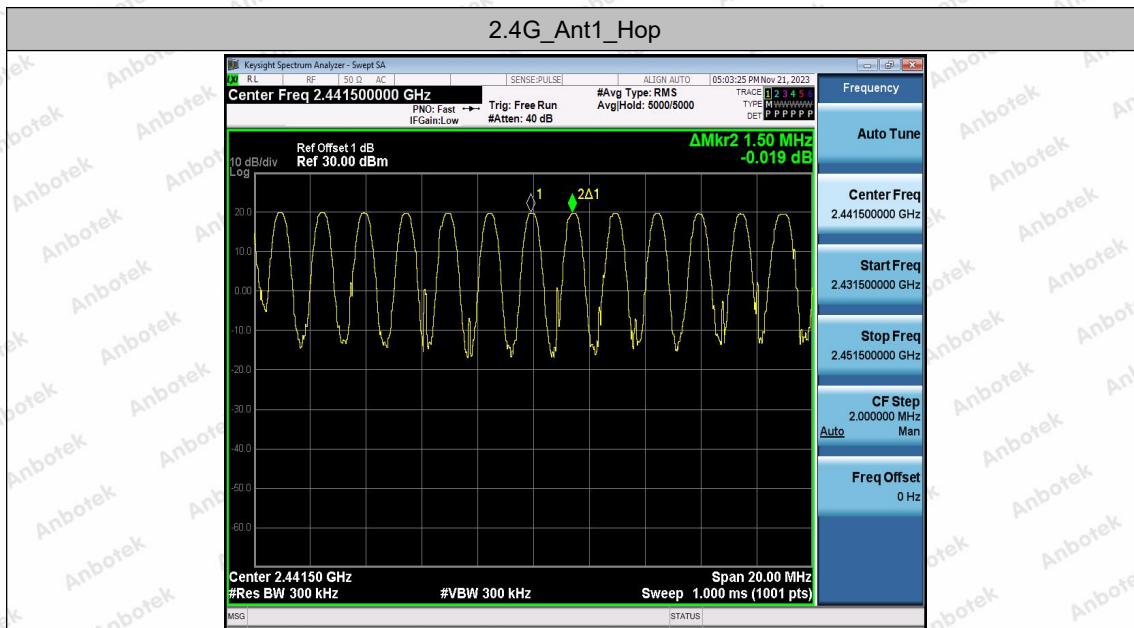
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Test Graphs



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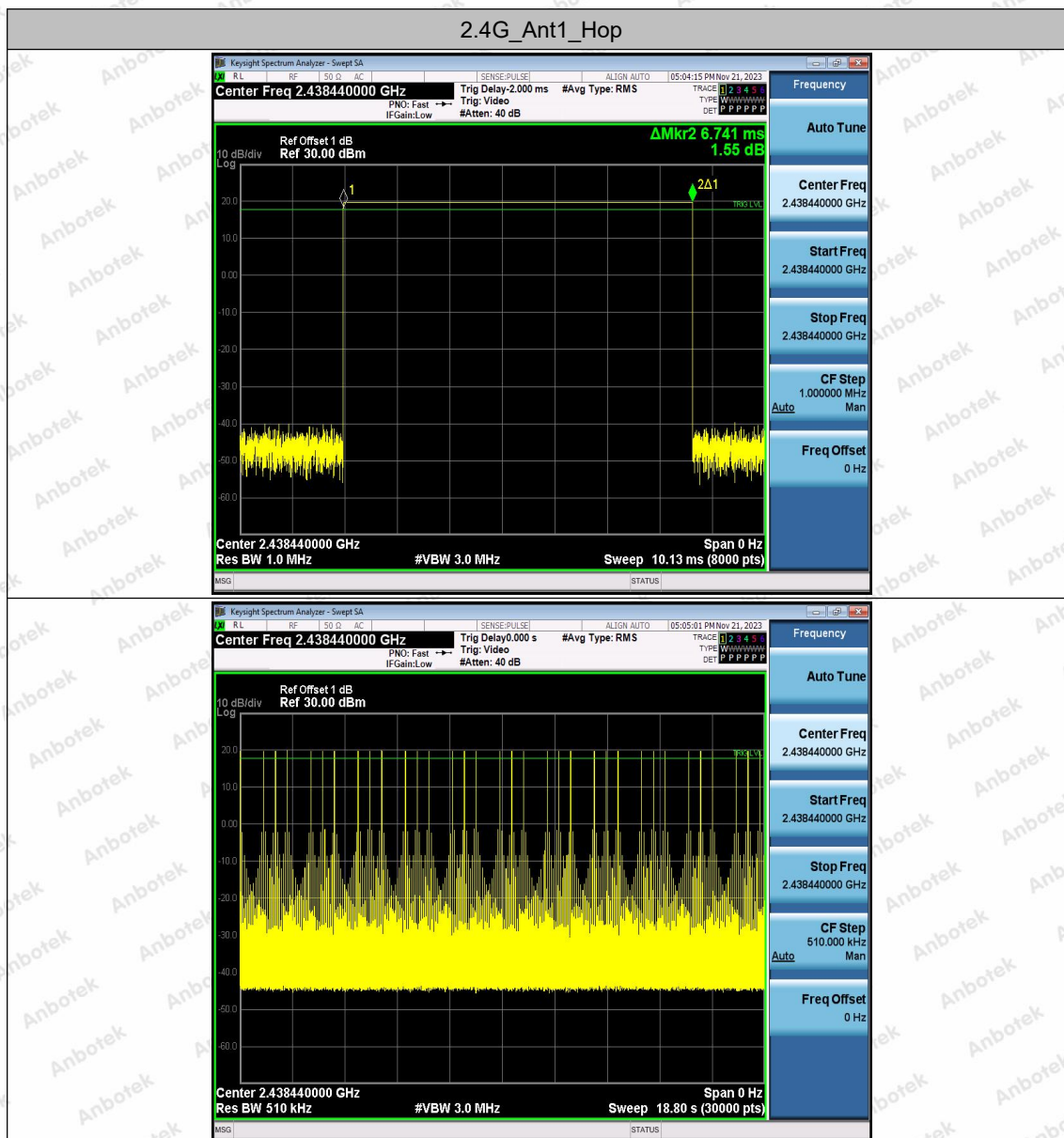
Appendix E: Time of occupancy

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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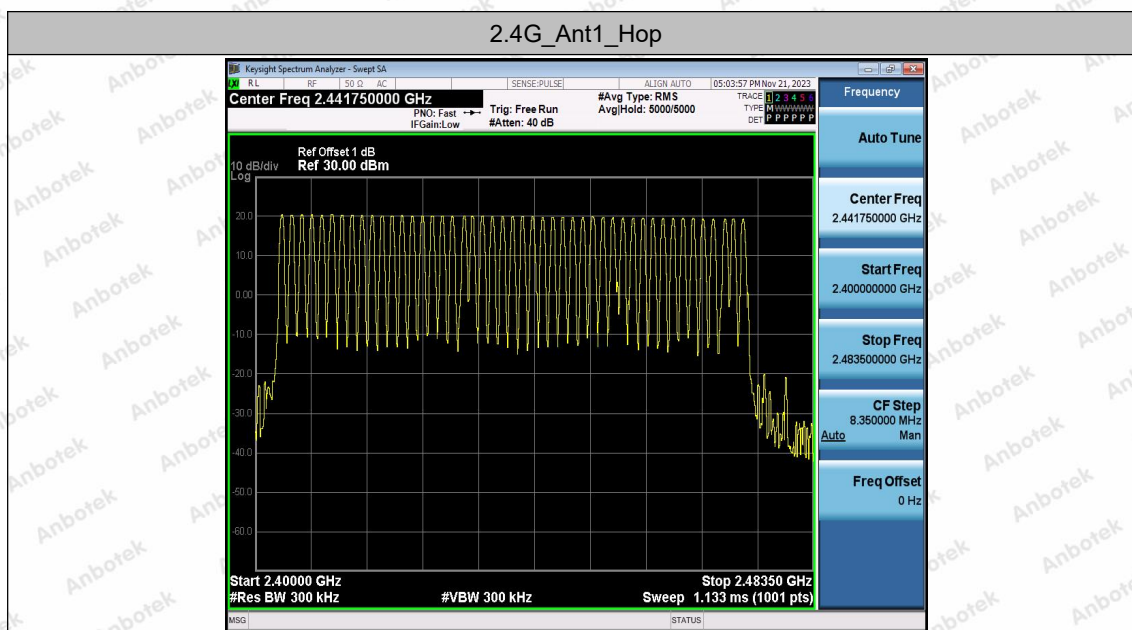
Appendix F: Number of hopping channels

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

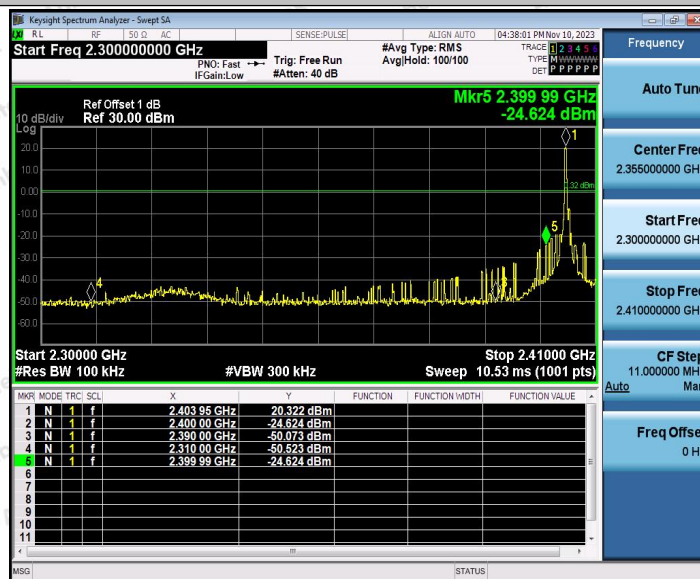
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403.94	20.32	-24.62	≤0.32	PASS
		High	2472.94	18.97	-34.99	≤-1.03	PASS
		Low	Hop_2403.94	20.60	-34.96	≤0.6	PASS
		High	Hop_2472.94	19.25	-43.26	≤-0.75	PASS



Test Graphs

2.4G_Ant1_Low_2403.94



2.4G_Ant1_High_2472.94



2.4G_Ant1_Low_Hop_2403.94

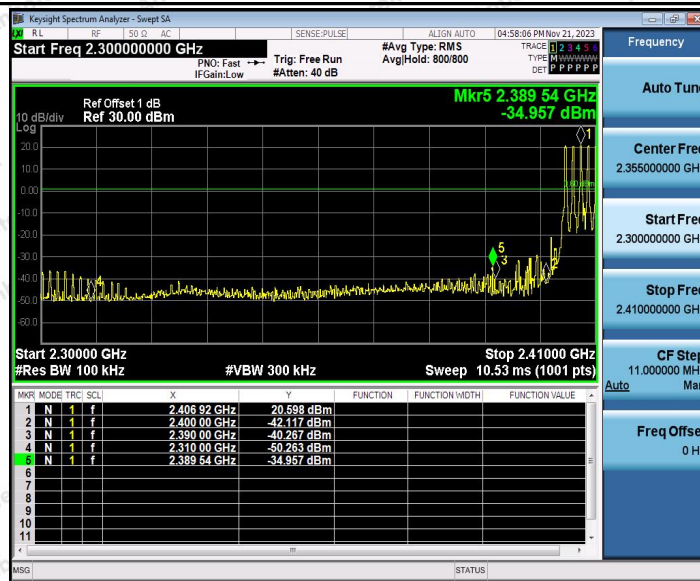
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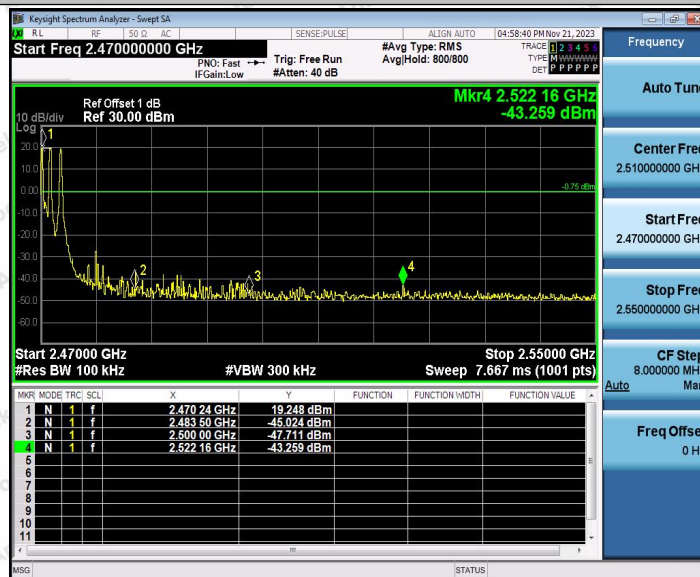


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2.4G_Ant1_High_Hop_2472.94



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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	20.06	20.06	---	PASS
			30~1000	20.06	-59.79	≤0.06	PASS
			1000~26500	20.06	-25.26	≤0.06	PASS
		2438.44	Reference	19.44	19.44	---	PASS
			30~1000	19.44	-59.09	≤-0.56	PASS
			1000~26500	19.44	-26.95	≤-0.56	PASS
		2472.94	Reference	18.68	18.68	---	PASS
			30~1000	18.68	-57.51	≤-1.32	PASS
			1000~26500	18.68	-31.51	≤-1.32	PASS

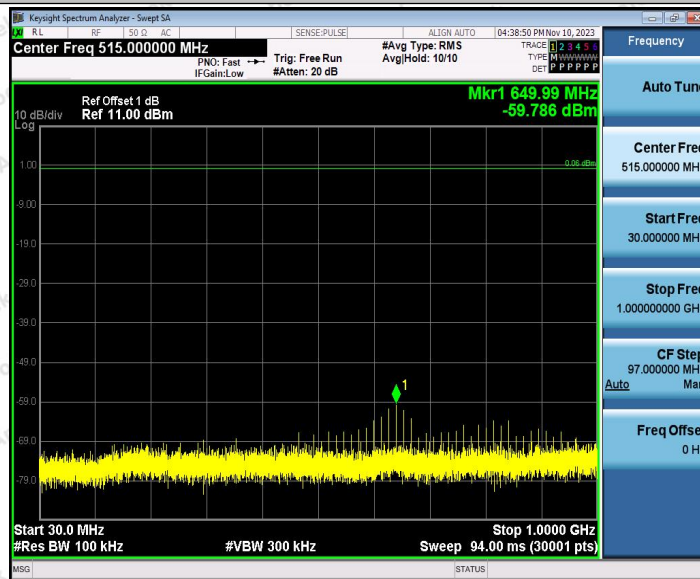


Test Graphs

2.4G_Ant1_2403.94_0~Reference



2.4G_Ant1_2403.94_30~1000



2.4G_Ant1_2403.94_1000~26500

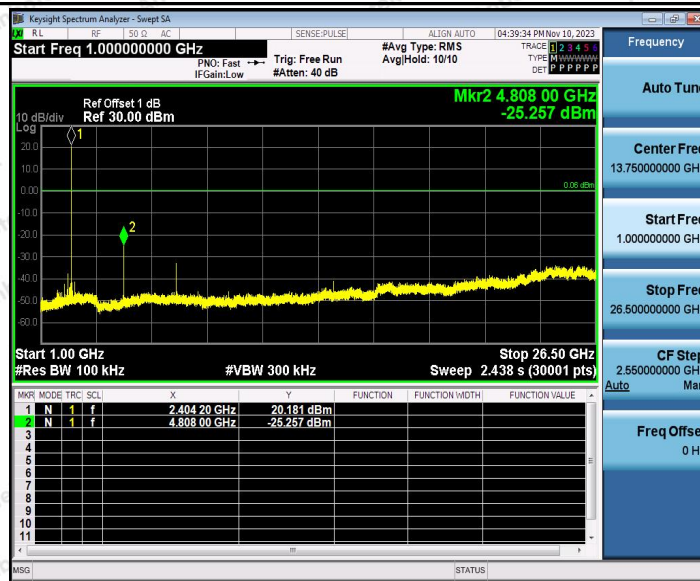
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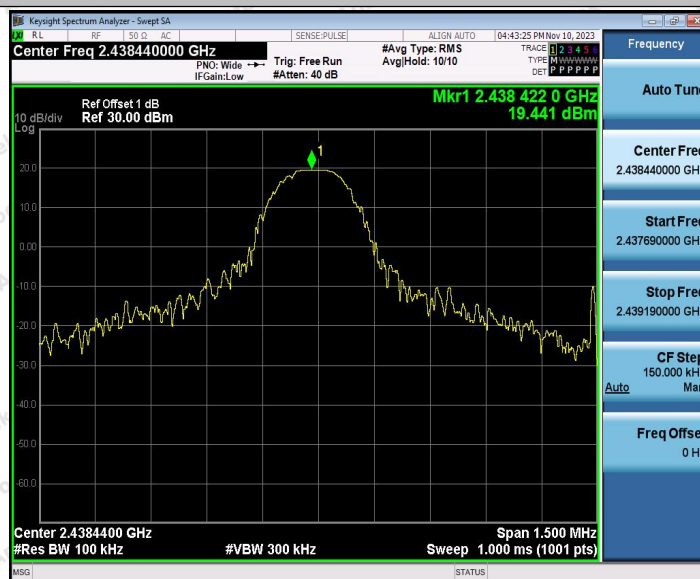


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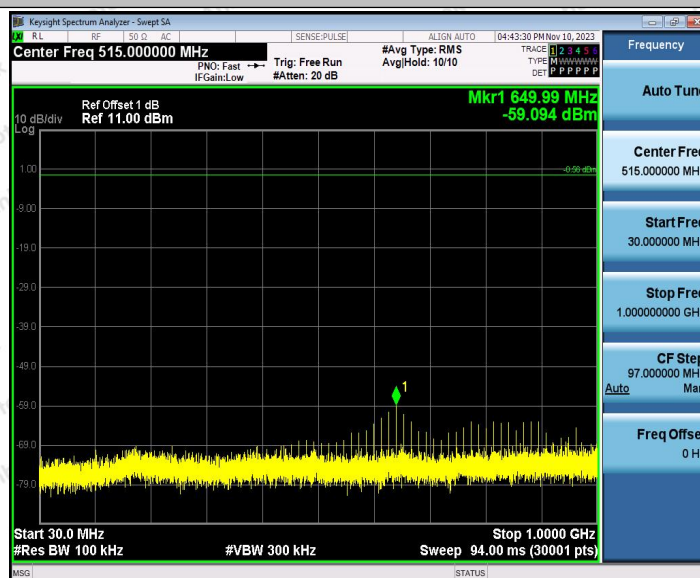




2.4G_Ant1_2438.44_0~Reference



2.4G_Ant1_2438.44_30~1000



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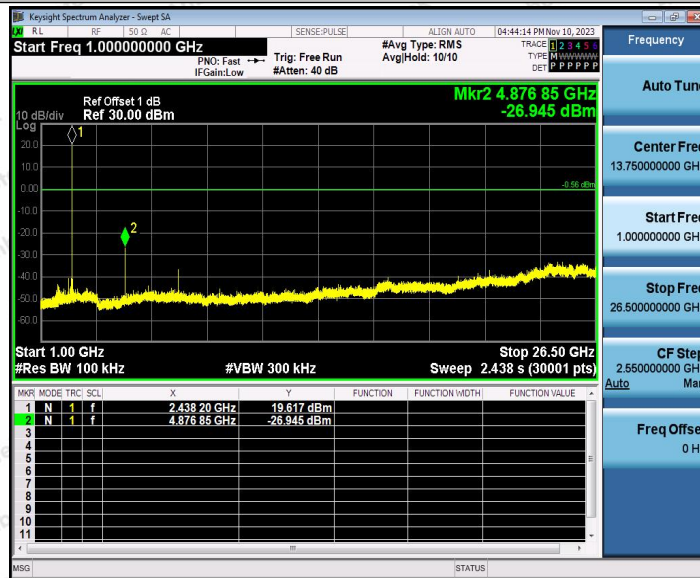
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2.4G_Ant1_2438.44_1000~26500



2.4G_Ant1_2472.94_0~Reference



2.4G_Ant1_2472.94_30~1000

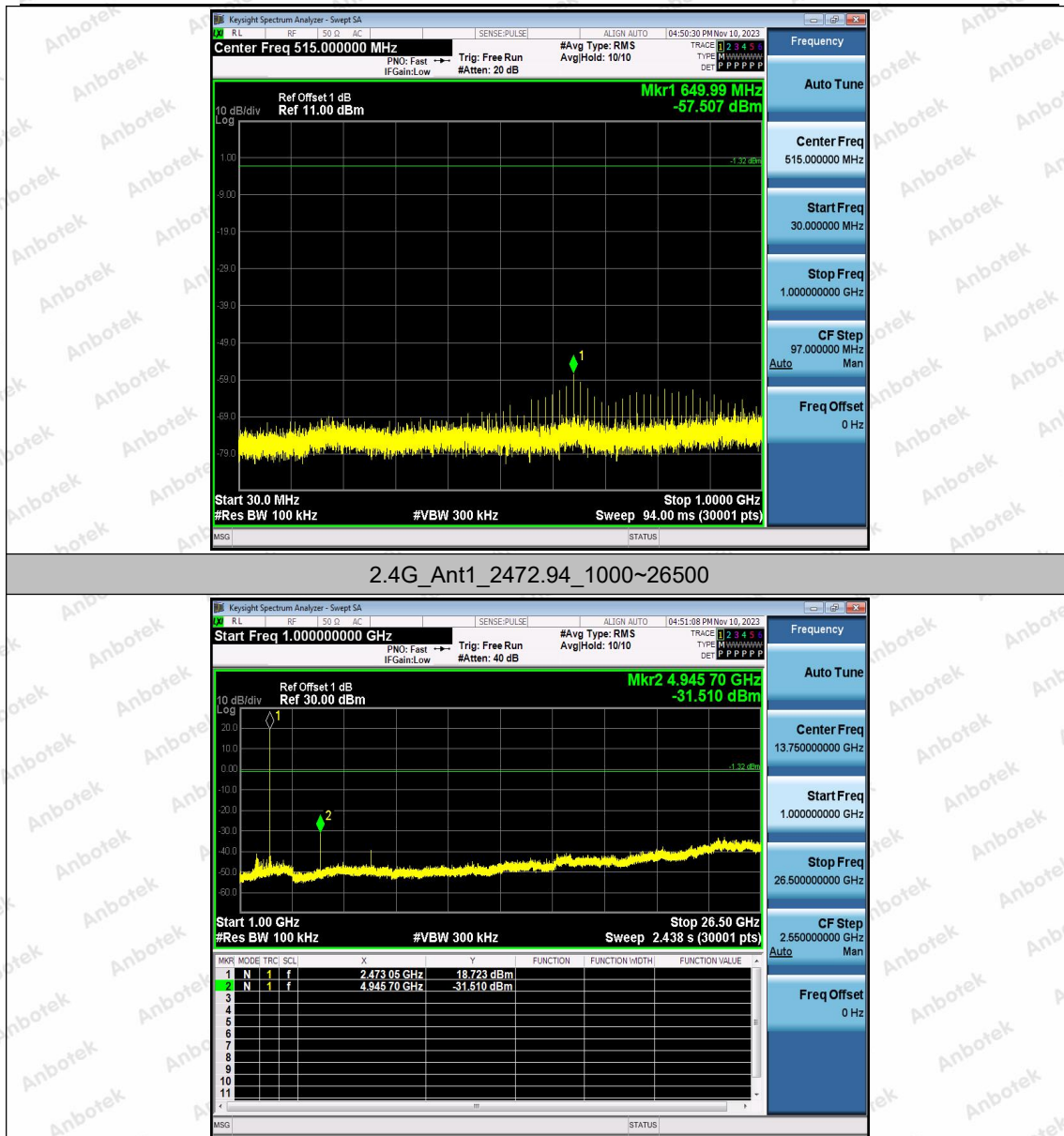
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403.94	6.73	8.98	74.94	1.25
		2438.44	6.75	9.00	75.00	1.25
		2472.94	6.75	9.00	75.00	1.25

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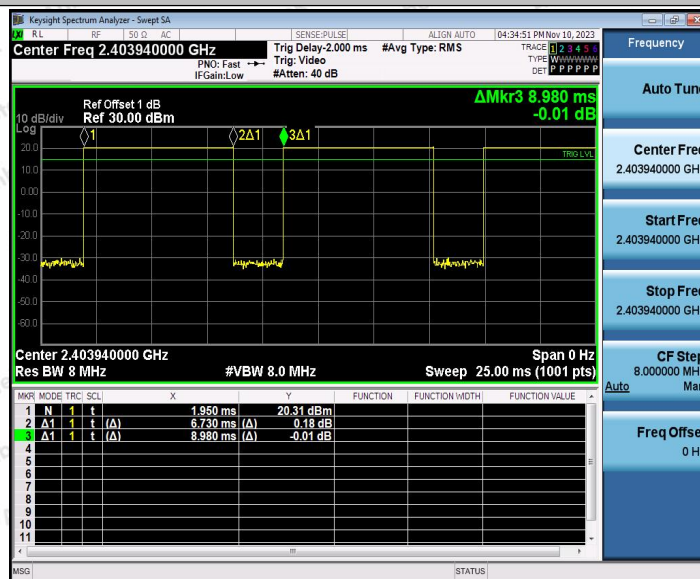


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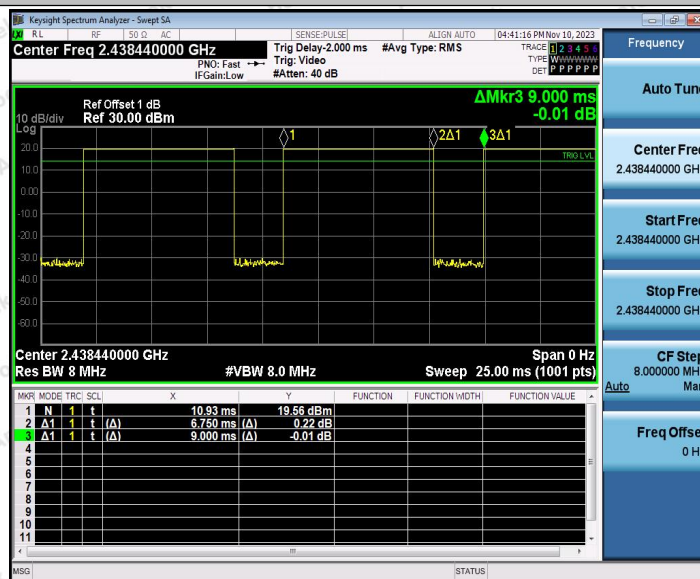


Test Graphs

2.4G_Ant1_2403.94



2.4G_Ant1_2438.44



2.4G_Ant1_2472.94

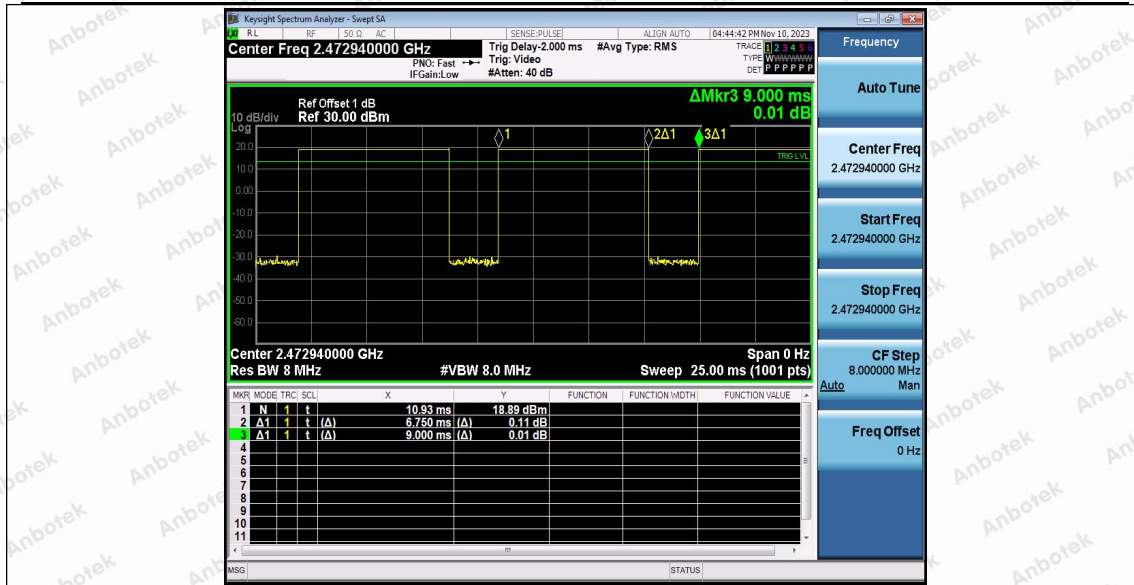
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