

Appendix Test Data

Report No.:	18220WC30160902	Test Sample No.:	1-2-2
Start Test Date:	2023.08.08	Finish Test Date:	2023.08.14
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.4℃	Relative Humidity:	48%
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	2402	1.026	2401.382	2402.408	---	---
		2441	1.056	2440.361	2441.417	---	---
		2480	1.053	2479.364	2480.417	---	---



Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2441



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]	Limit[MHz]	Verdict
2.4G	Ant1	2402	0.94569	2401.4201	2402.3658	---	---
		2441	0.96586	2440.4077	2441.3736	---	---
		2480	0.97481	2479.4019	2480.3767	---	---

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Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2441



2.4G_Ant1_2480

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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	-0.72	≤30	PASS
		2441	-0.36	≤30	PASS
		2480	0.10	≤30	PASS



Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2441



2.4G_Ant1_2480

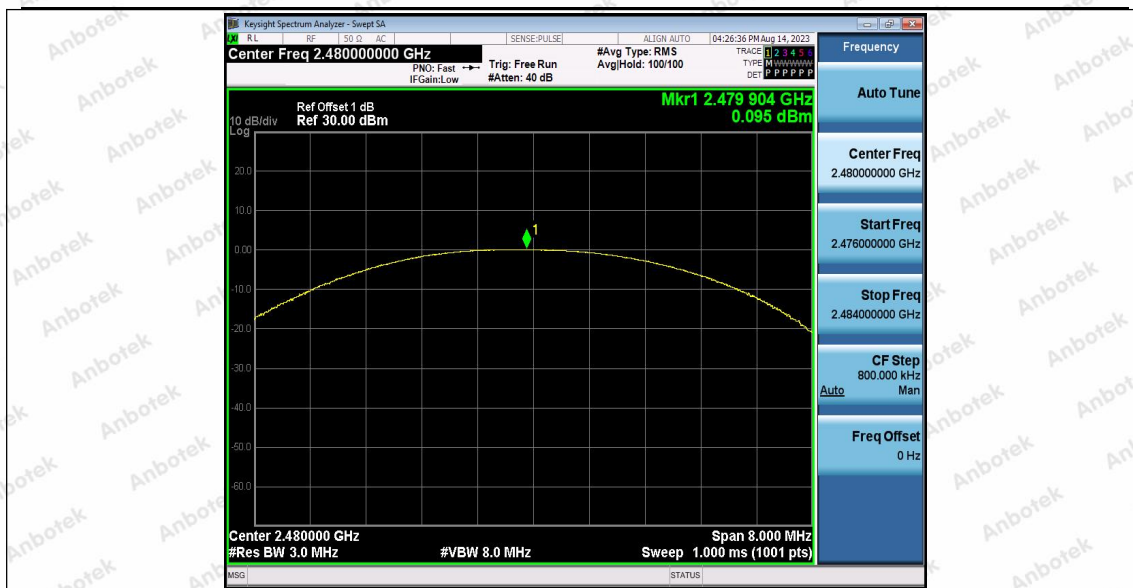
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.076	≥1.056	PASS





Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	2.879	111	0.32	≤0.4	PASS



Test Graphs



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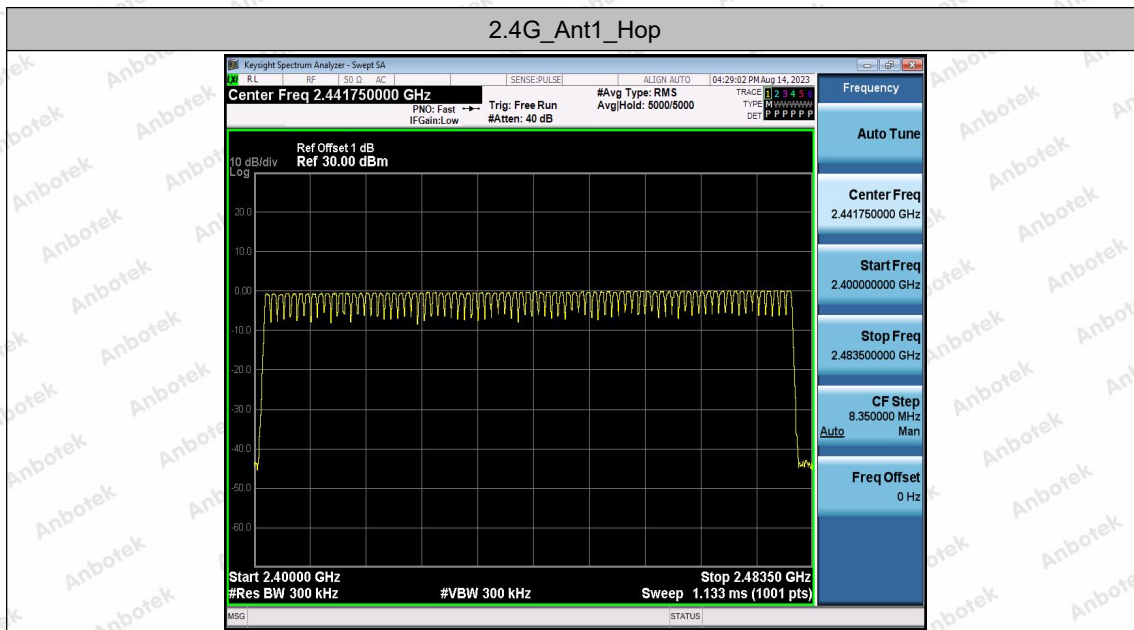
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	79	≥15	PASS



Test Graphs



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Appendix G: Band edge measurements

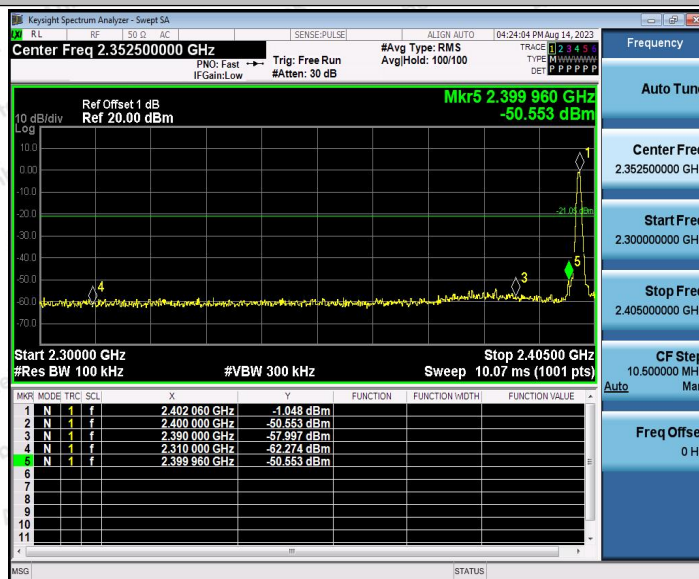
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2402	-1.05	-50.55	≤-21.05	PASS
		High	2480	-0.65	-53.94	≤-20.65	PASS
		Low	Hop_2402	-1.19	-55.71	≤-21.19	PASS
		High	Hop_2480	-0.48	-55.62	≤-20.48	PASS

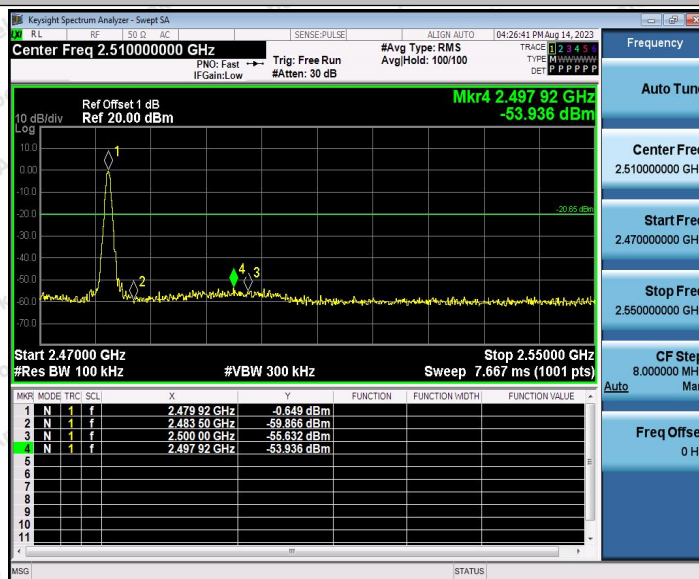


Test Graphs

2.4G_Ant1_Low_2402



2.4G_Ant1_High_2480



2.4G_Ant1_Low_Hop_2402

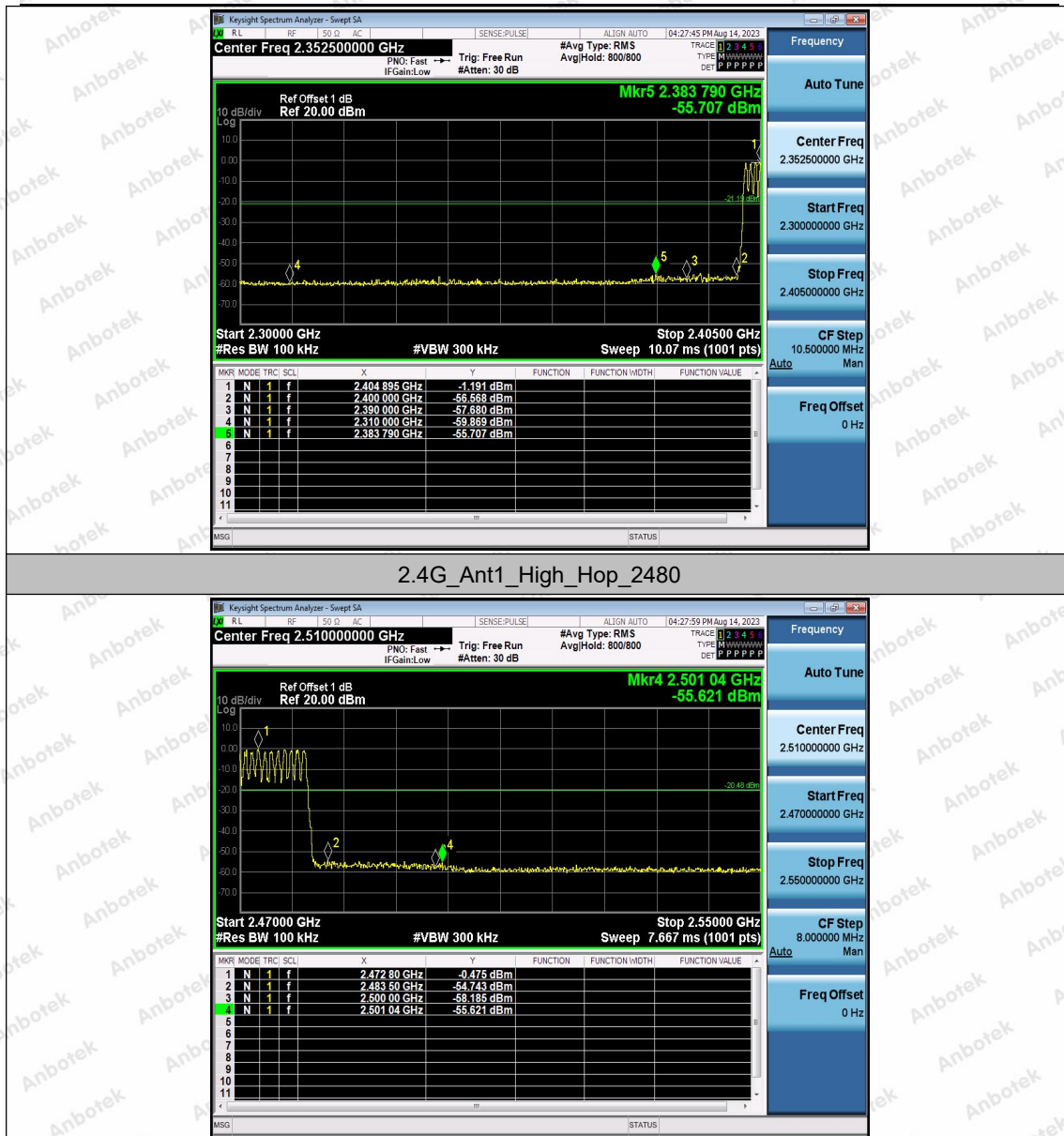
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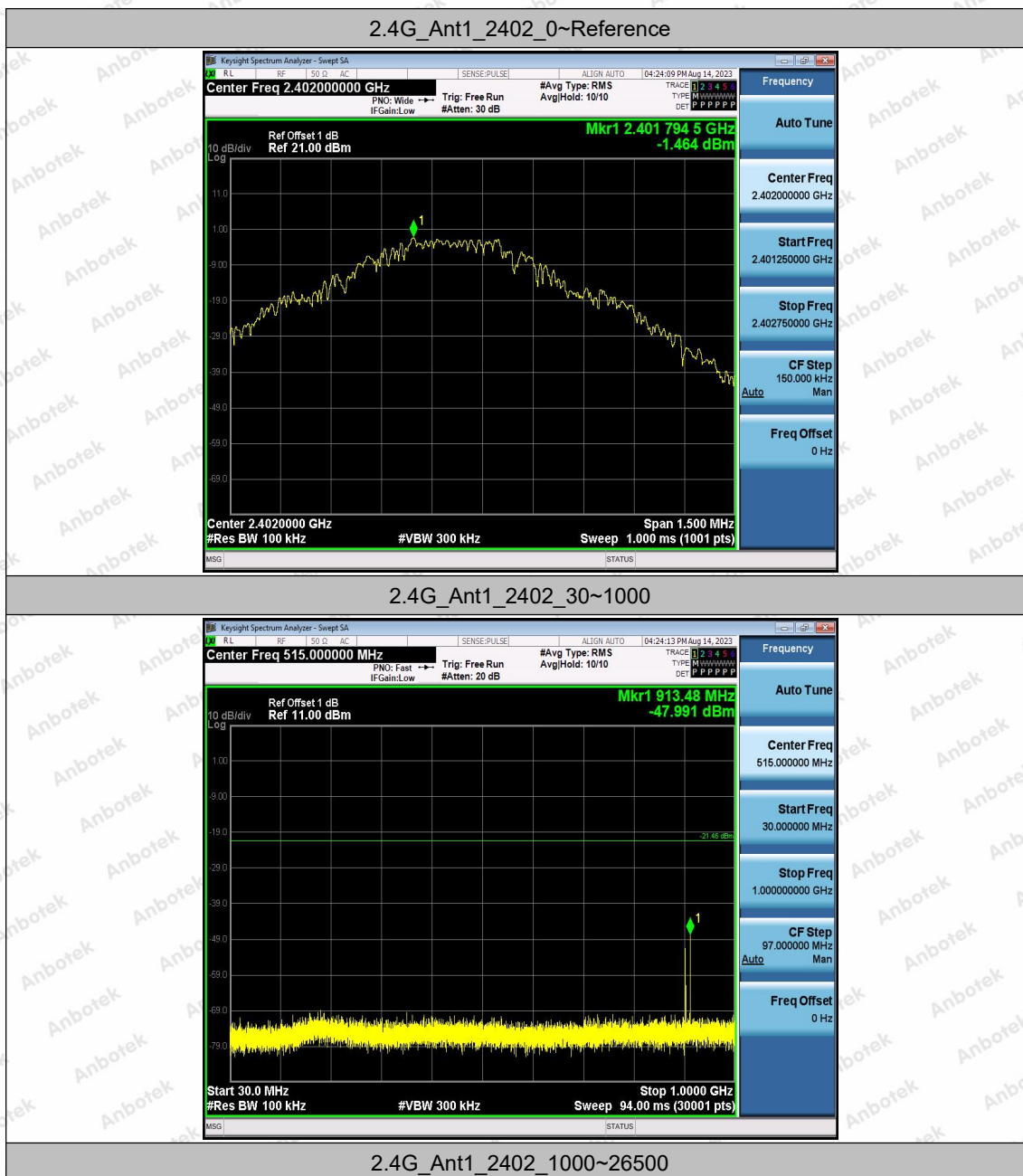
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2402	Reference	-1.46	-1.46	---	PASS
			30~1000	-1.46	-47.99	≤-21.46	PASS
			1000~26500	-1.46	-46.96	≤-21.46	PASS
		2441	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-68.2	≤-21.32	PASS
			1000~26500	-1.32	-48.98	≤-21.32	PASS
		2480	Reference	-0.73	-0.73	---	PASS
			30~1000	-0.73	-68.42	≤-20.73	PASS
			1000~26500	-0.73	-46.67	≤-20.73	PASS



Test Graphs



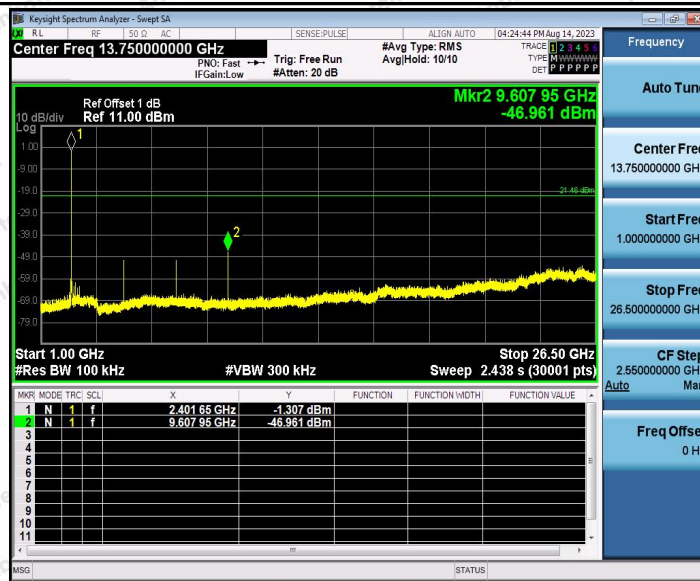
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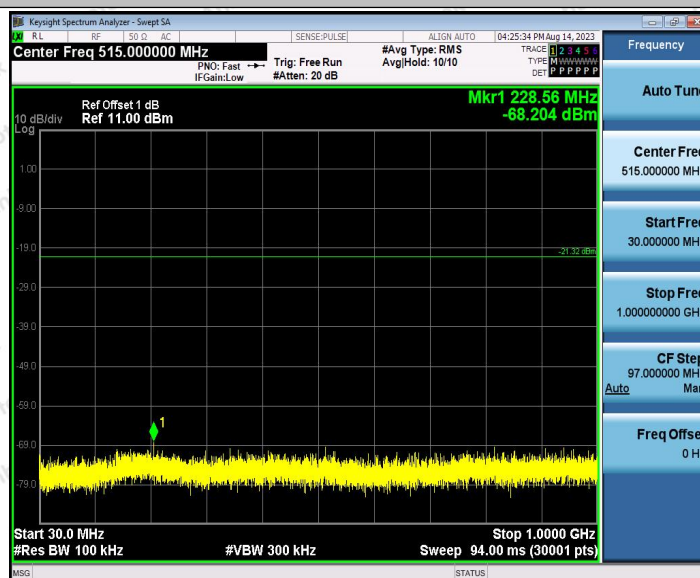




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



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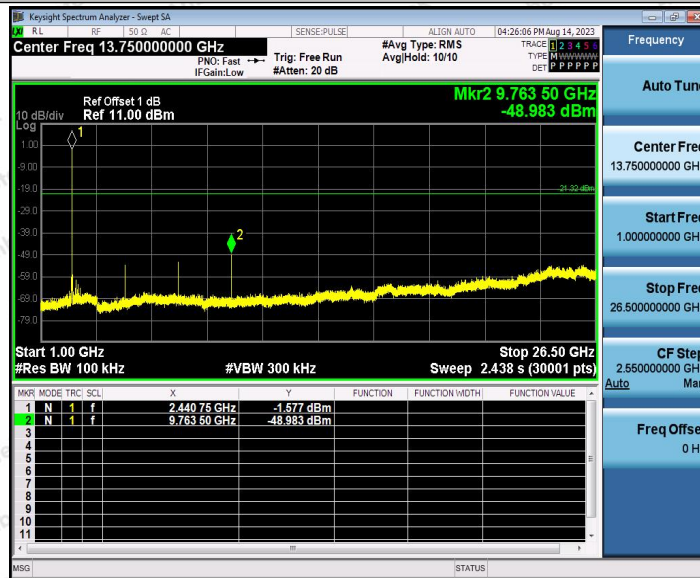
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2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2480_0~Reference



2.4G_Ant1_2480_30~1000

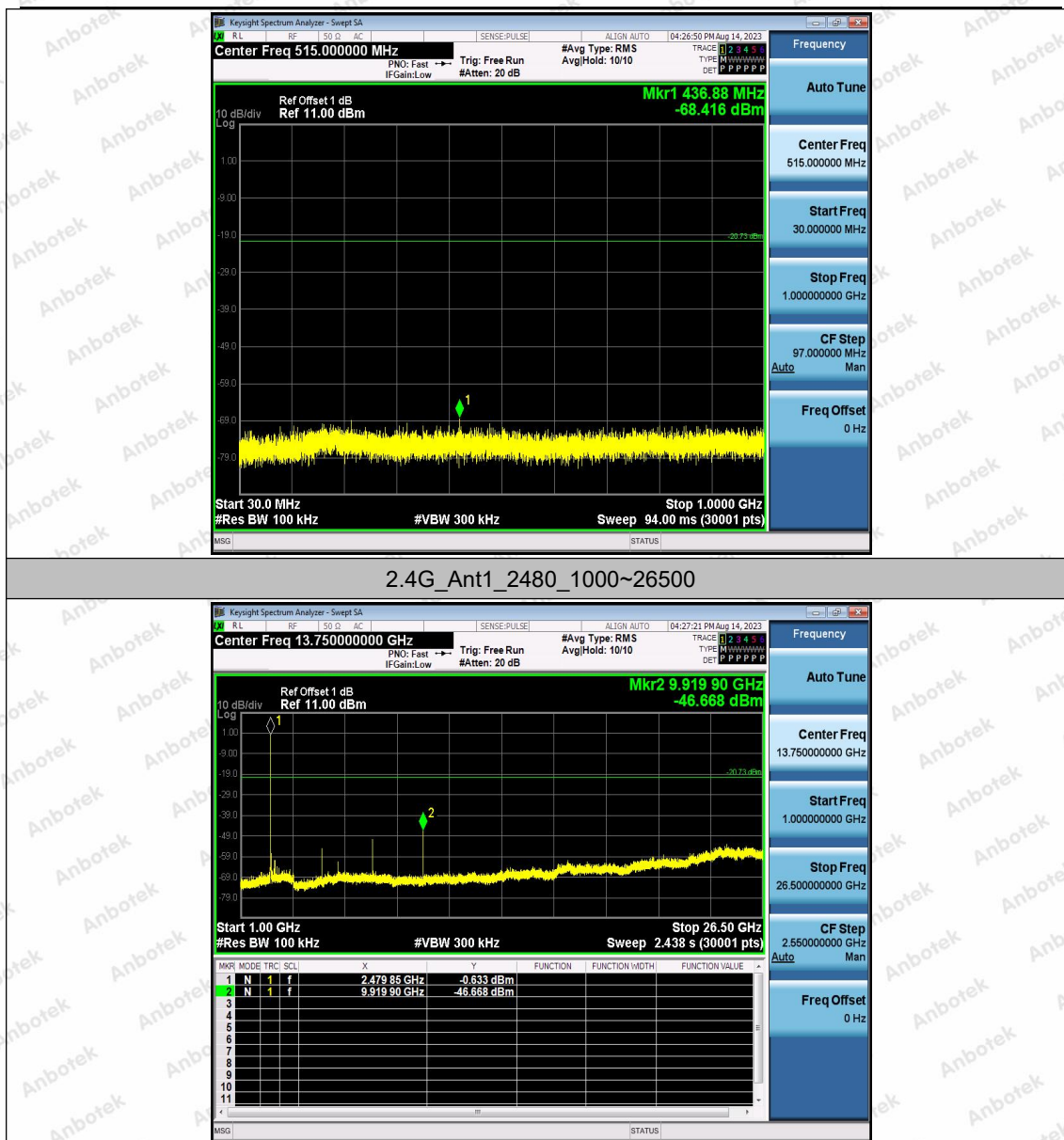
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Appendix I: Duty Cycle

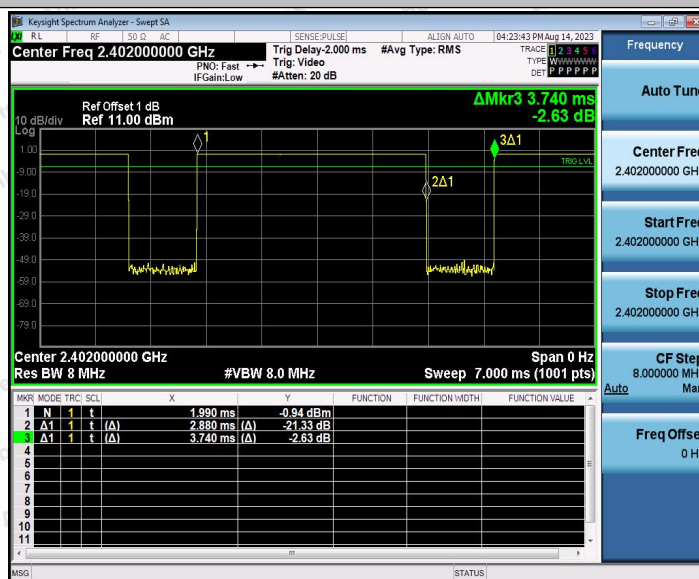
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402	2.88	3.74	77.01	1.13
		2441	2.88	3.75	76.80	1.15
		2480	2.88	3.74	77.01	1.13

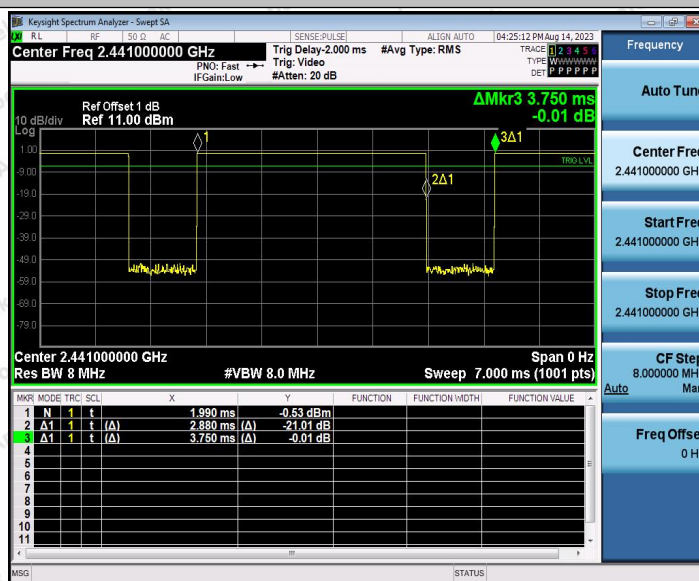


Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2441



2.4G_Ant1_2480

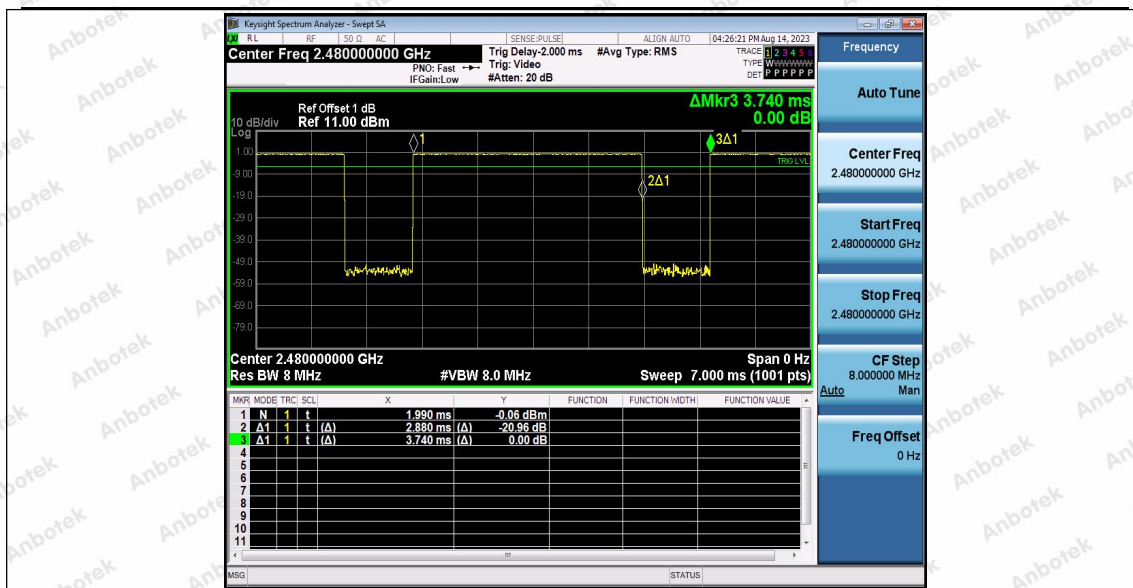
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