

Appendix Test Data

Report No.:	18220WC30037601	Test Sample No.:	1-2-2
Start Test Date:	2023.03.13	Finish Test Date:	2023.05.17
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.0℃	Relative Humidity:	48%
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2403	0.651	2402.619	2403.270
		2441	0.936	2440.517	2441.453
		2480	1.020	2479.520	2480.540



Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2480

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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2403	0.87153	2402.5290	2403.4568
		2441	0.98257	2440.5328	2441.5153
		2480	0.87181	2479.5547	2480.4266



Test Graphs

2.4G_Ant1_2403



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	2403	-1.70	≤30	PASS
		2441	-3.49	≤30	PASS
		2480	-5.45	≤30	PASS



Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2480

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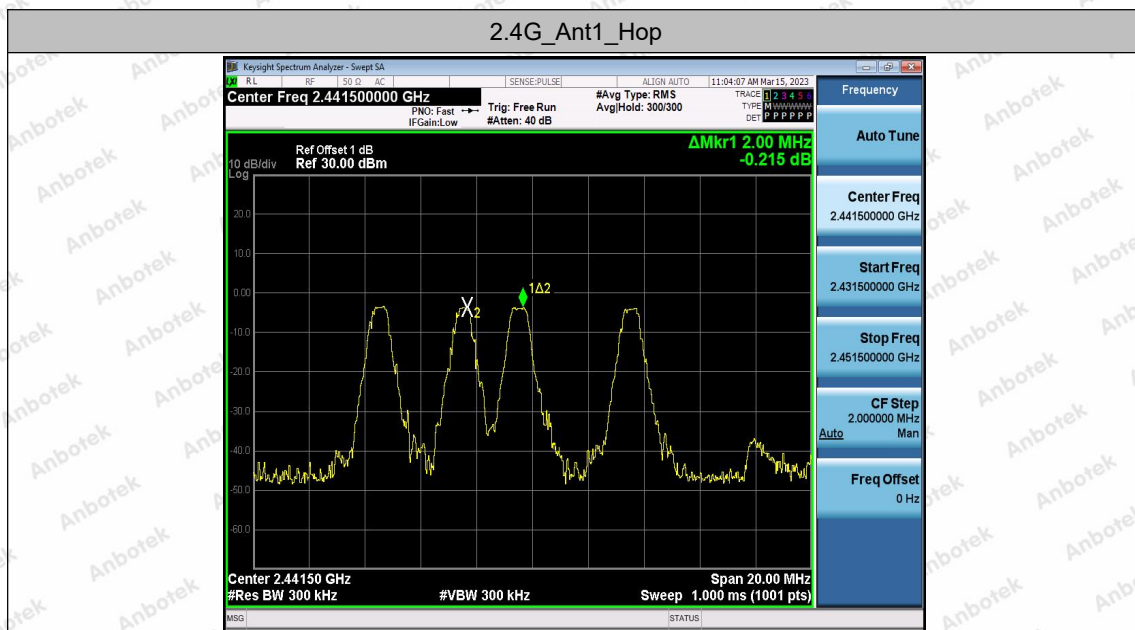


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.00	≥0.680	PASS

Test Graphs



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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.194	29	0.006	≤0.4	PASS

Test Graphs

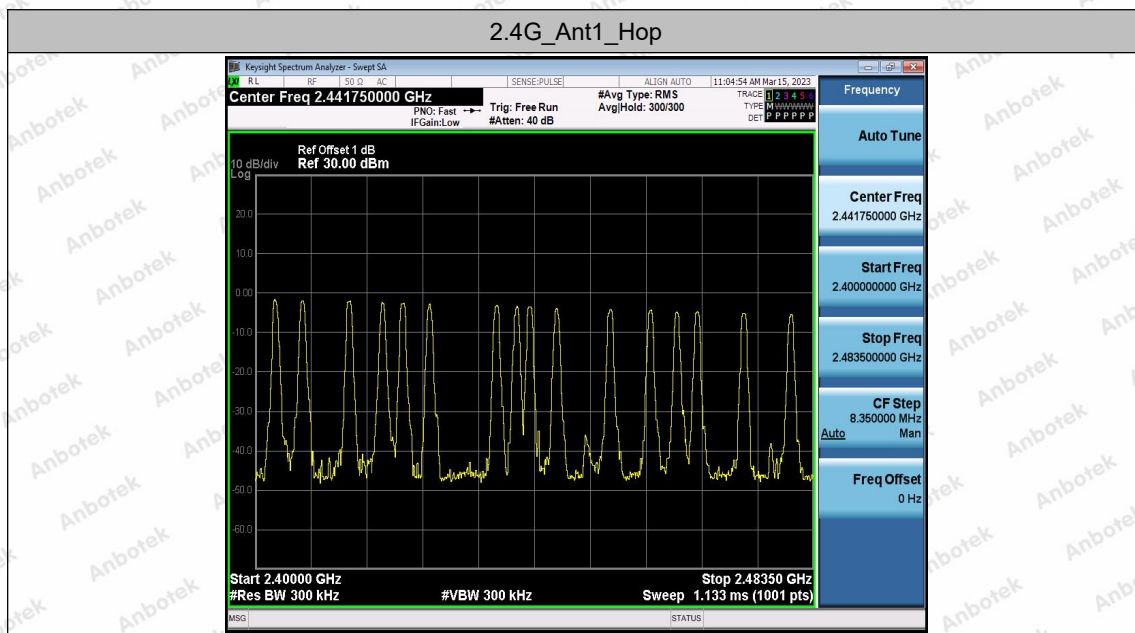


Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	16	≥15	PASS

Test Graphs



Appendix G: Band edge measurements

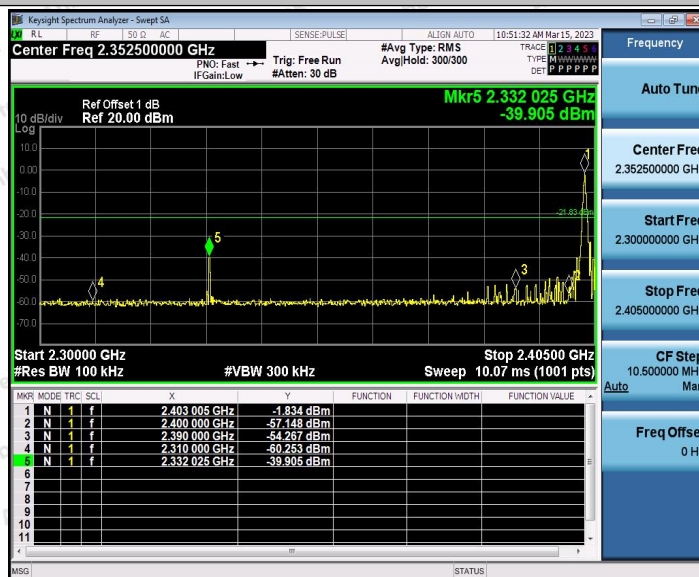
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	-1.83	-39.91	≤-21.83	PASS
		High	2480	-5.84	-49.77	≤-25.84	PASS
		Low	Hop_2403	-3.95	-43.86	≤-25.27	PASS
		High	Hop_2480	-5.27	-45.45	≤-25.27	PASS

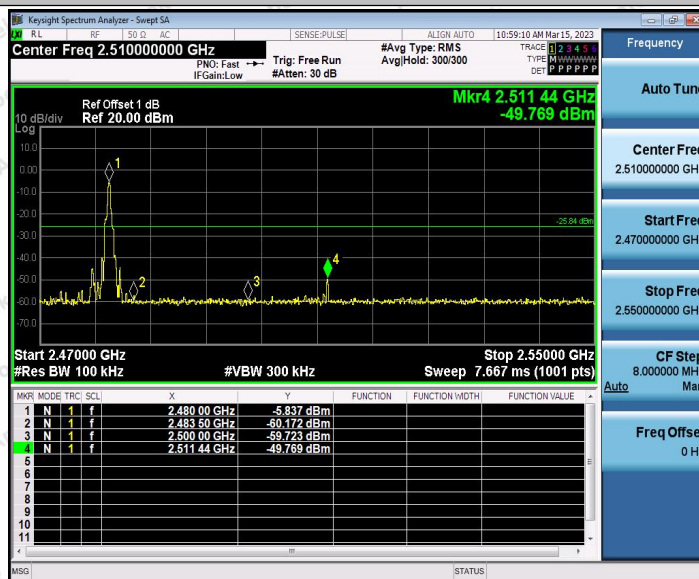


Test Graphs

2.4G_Ant1_Low_2403



2.4G_Ant1_Low_2480



2.4G_Ant1_Low_Hop_2403

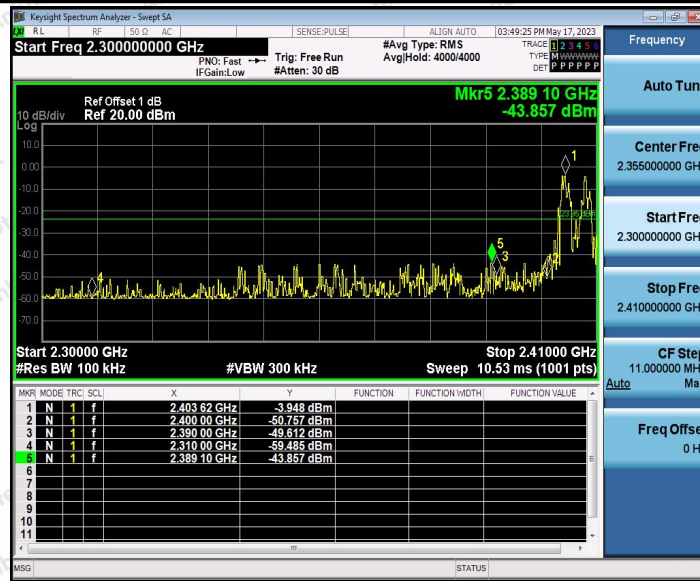
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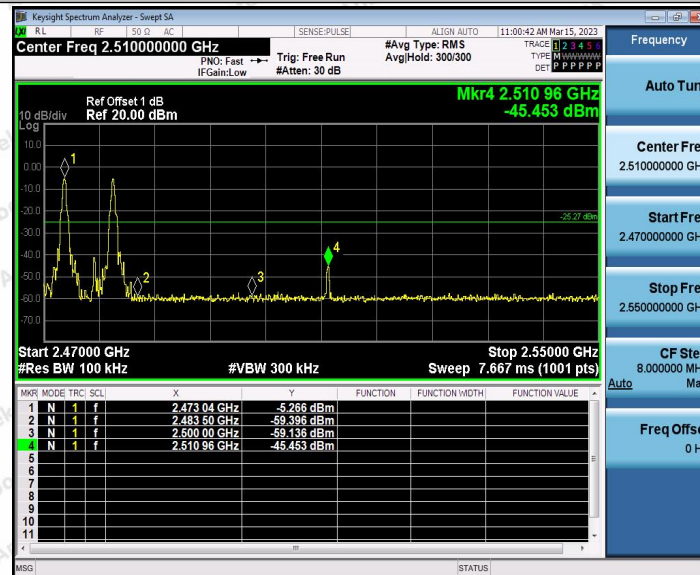


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2.4G_Ant1_High_Hop_2480



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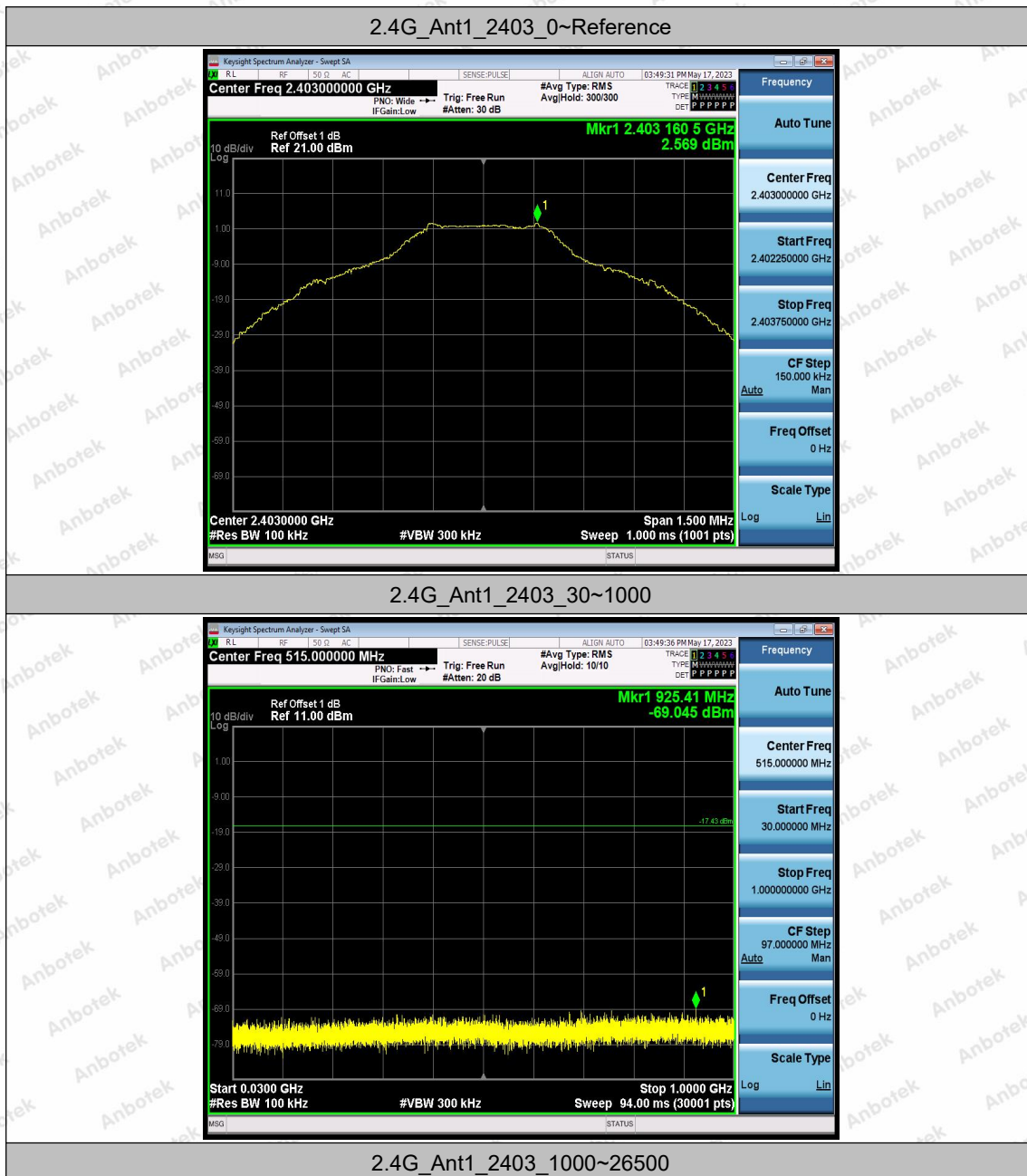
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403	Reference	2.57	2.57	---	PASS
			30~1000	2.57	-69.05	≤-17.43	PASS
			1000~26500	2.57	-52.58	≤-17.43	PASS
		2441	Reference	2.33	2.33	---	PASS
			30~1000	2.33	-68.56	≤-17.67	PASS
			1000~26500	2.33	-52.75	≤-17.67	PASS
		2480	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-69.6	≤-18.88	PASS
			1000~26500	1.12	-53.12	≤-18.88	PASS



Test Graphs



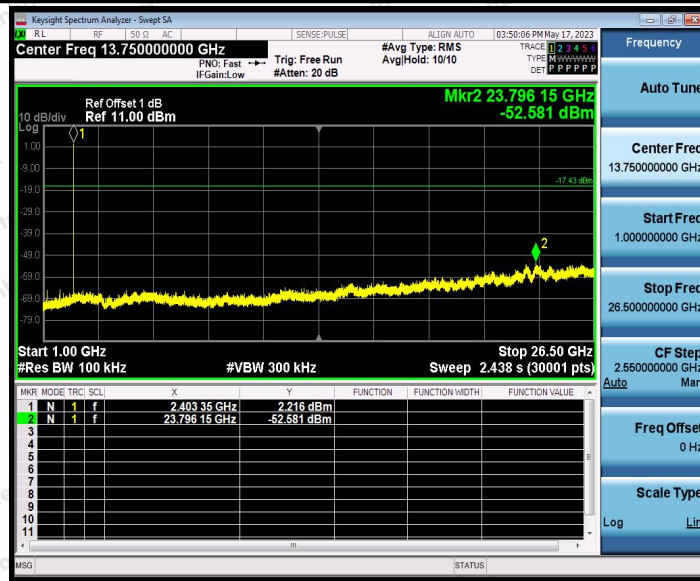
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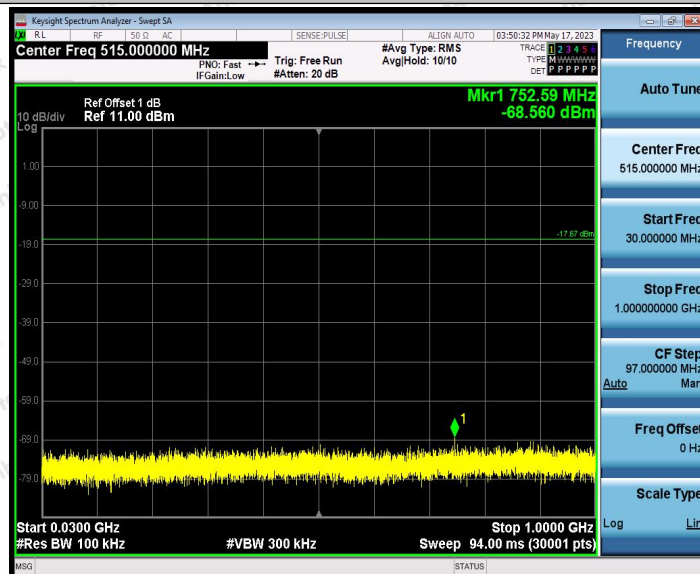




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



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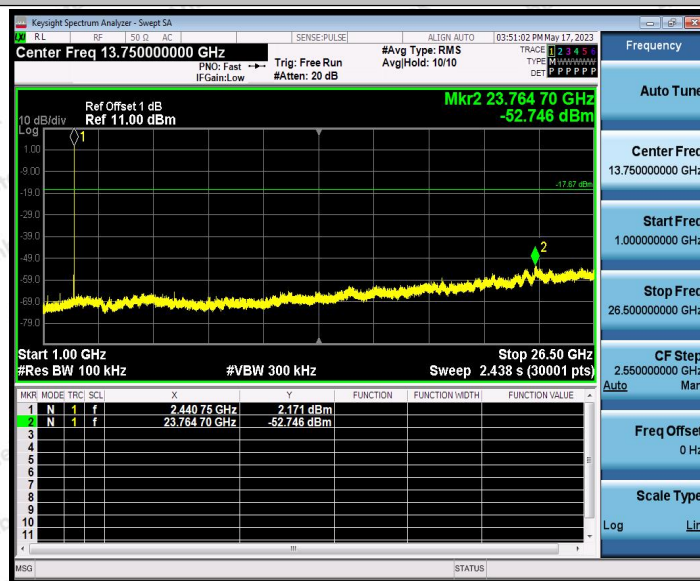
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2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2480_0~Reference



2.4G_Ant1_2480_30~1000

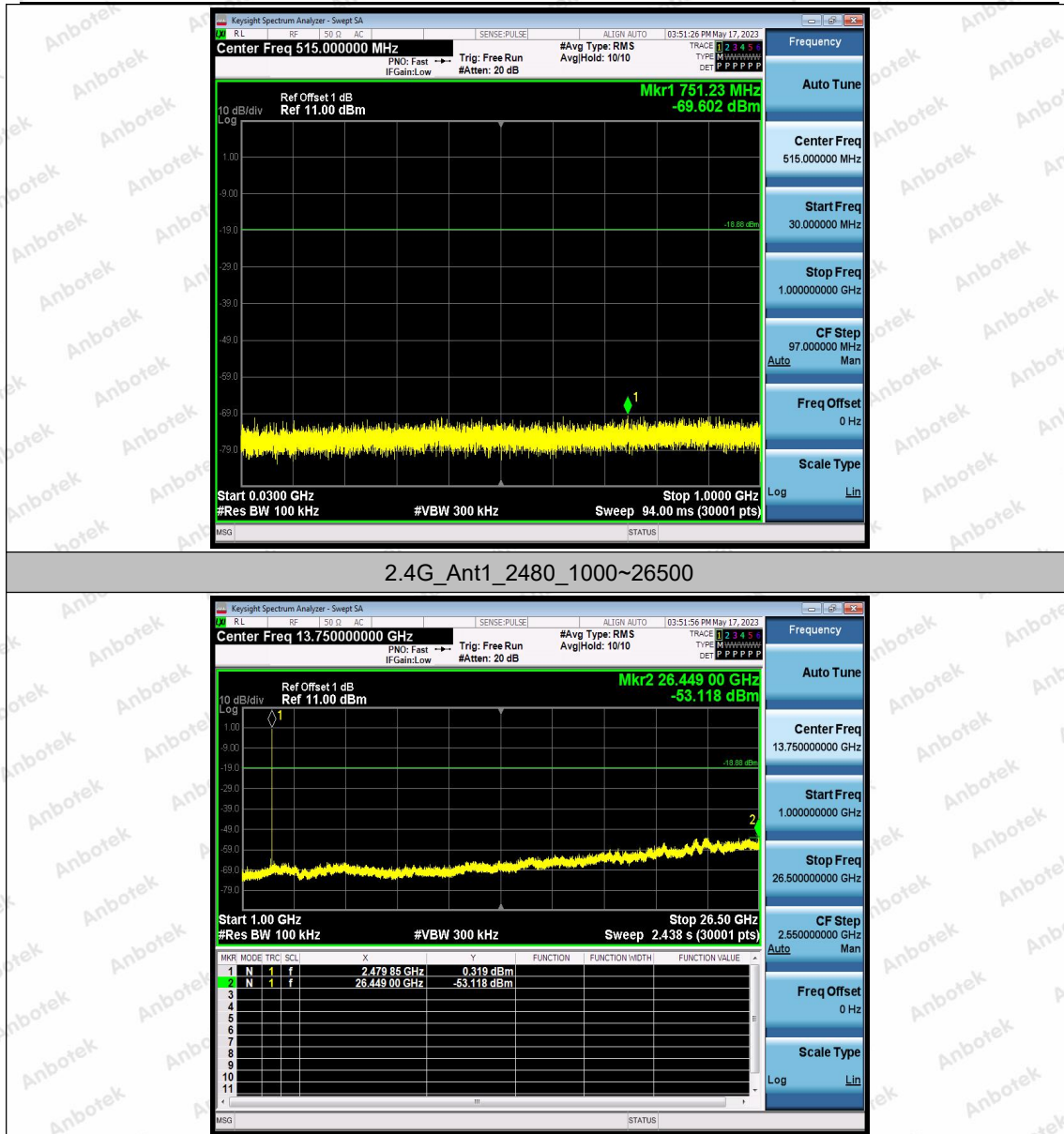
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Appendix I: Duty Cycle

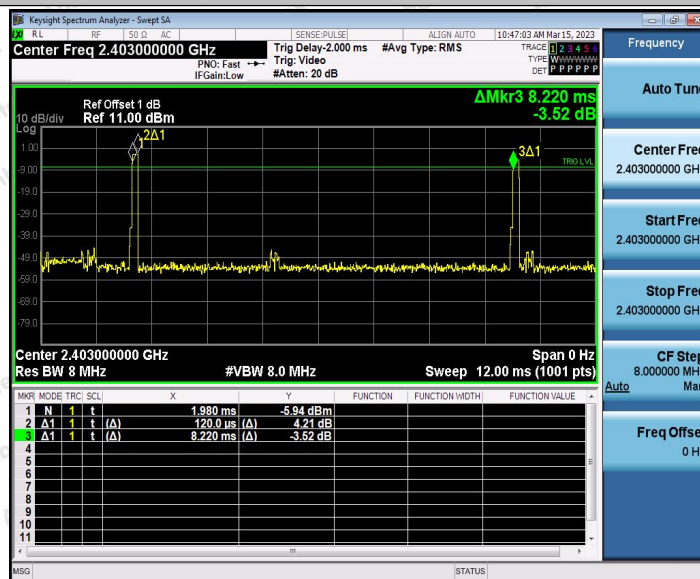
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	0.12	8.22	1.46	18.36
		2441	0.12	8.22	1.46	18.36
		2480	0.12	8.22	1.46	18.36

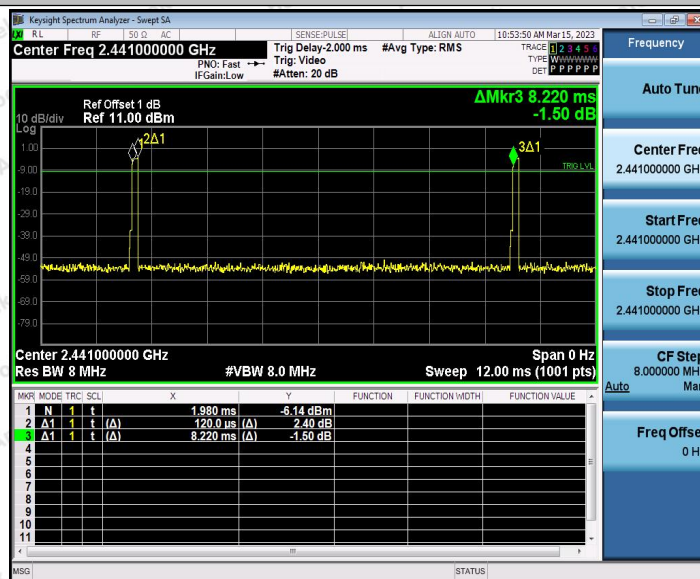


Test Graphs

2.4G_Ant1_2403

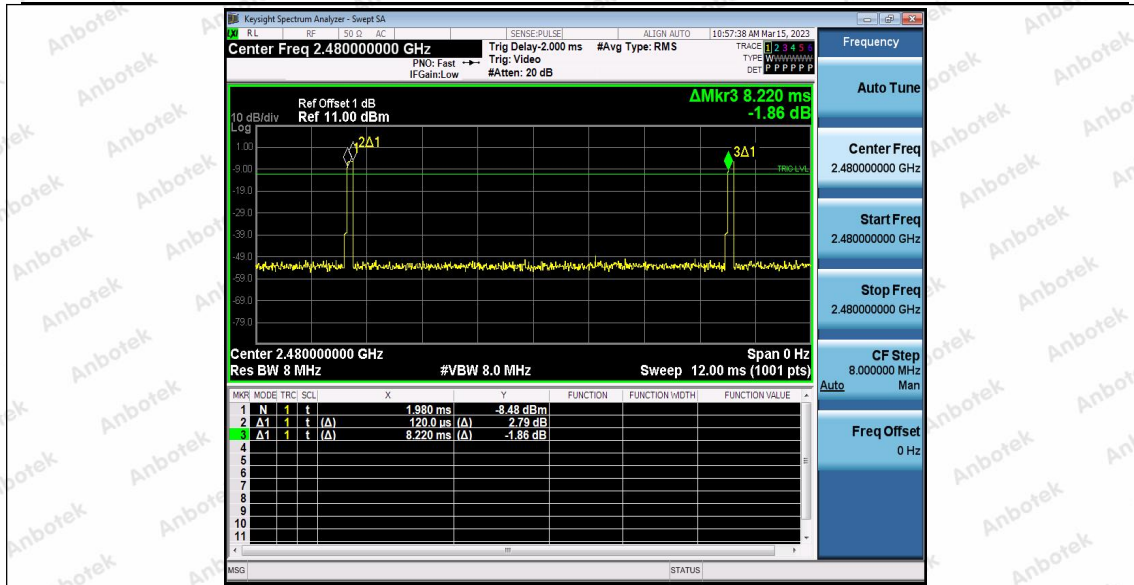


2.4G_Ant1_2441



2.4G_Ant1_2480





---End---

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