

Appendix Test Data

Report No.:	18220WC30014402	Test Sample No.:	1-2-2
Start Test Date:	2023.2.6	Finish Test Date:	2023.2.15
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	23.3℃	Relative Humidity:	47 %
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	2.115	2401.995	2404.110	---	---
		2441	1.947	2439.983	2441.930	---	---
		2480	2.175	2478.975	2481.150	---	---

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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

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403	2.0761	2402.0221	2404.0950	---	---
		2441	2.0961	2439.9944	2442.0905	---	---
		2480	2.1216	2478.9701	2481.0963	---	---



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	2.39	≤30	PASS
		2441	2.27	≤30	PASS
		2480	1.79	≤30	PASS

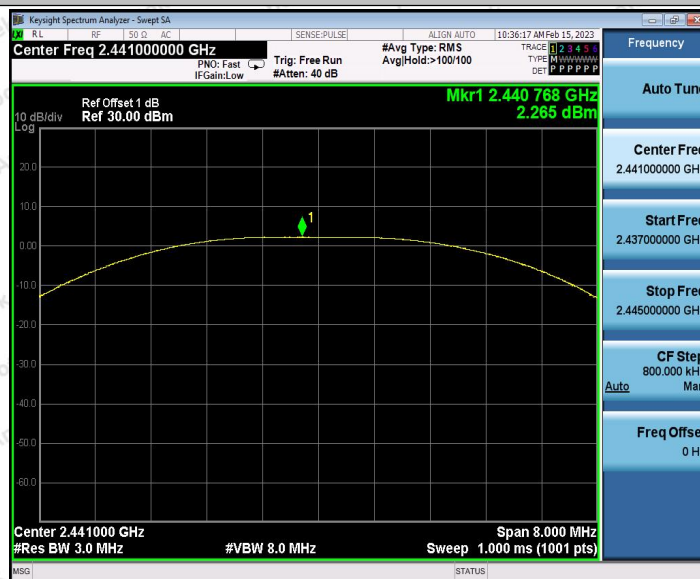


Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2480

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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.98	≥1.450	PASS



Test Graphs



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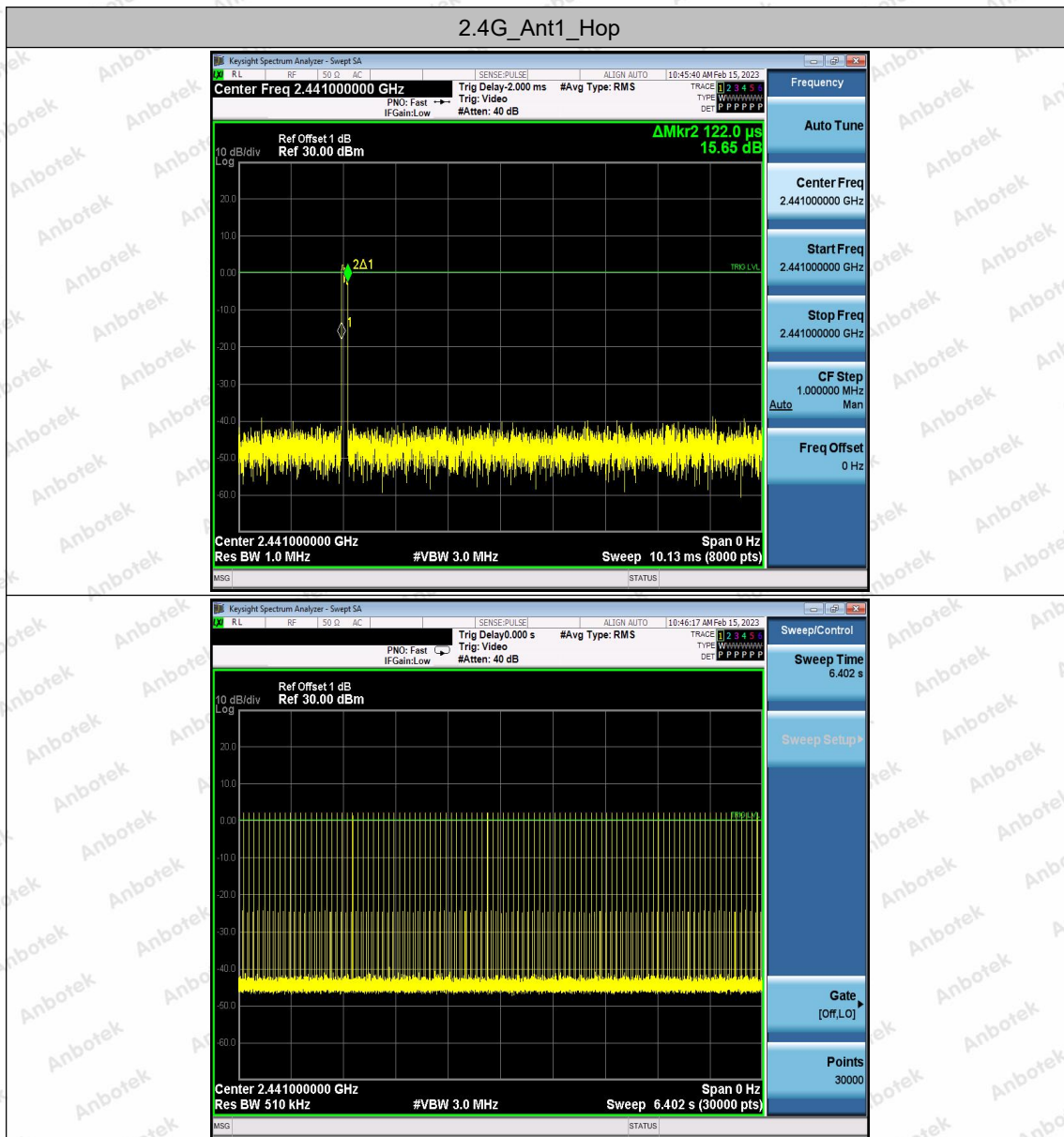
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.122	101	0.012	≤0.4	PASS



Test Graphs



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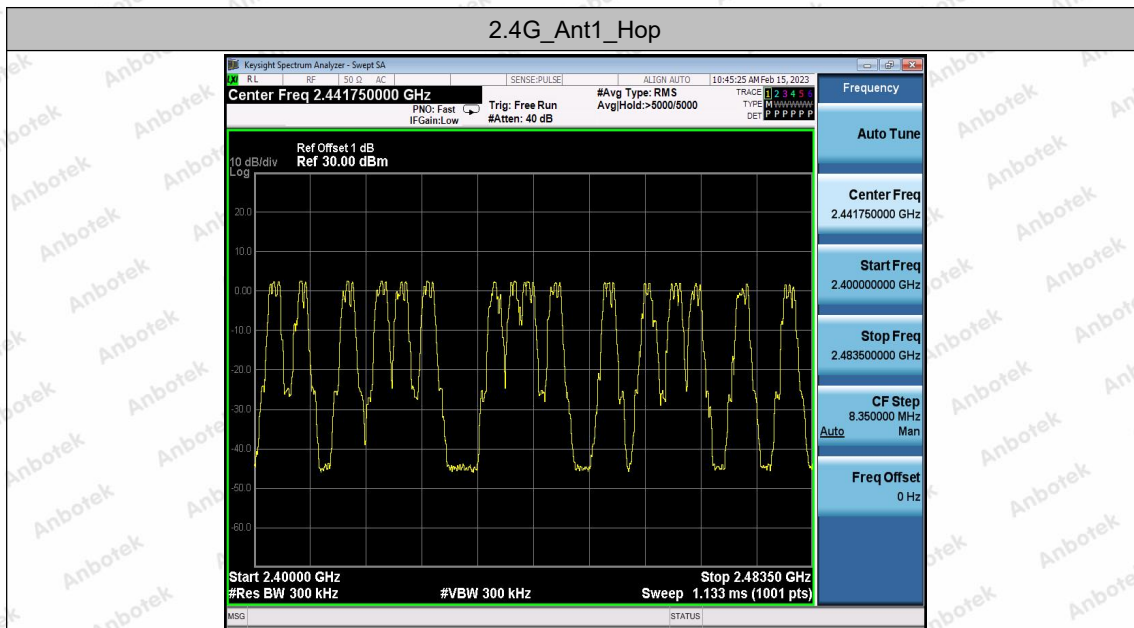
Appendix F: Number of hopping channels

Test Result

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



Test Graphs



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Appendix G: Band edge measurements

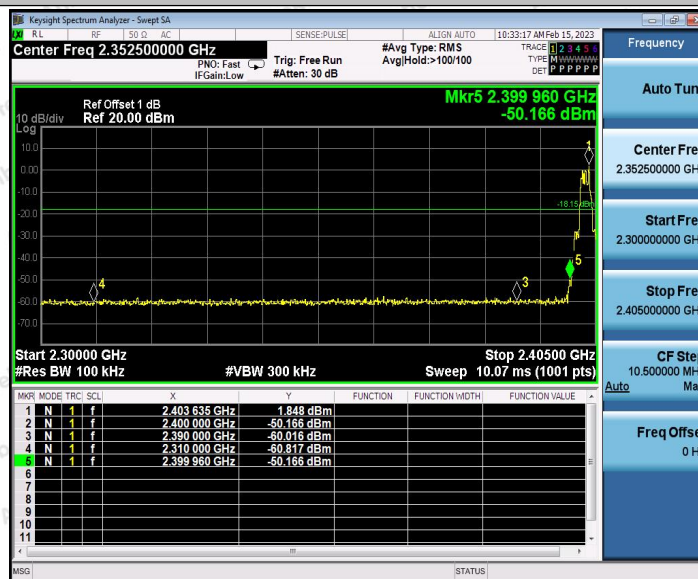
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	1.85	-50.17	≤-18.15	PASS
		High	2480	1.62	-57.73	≤-18.38	PASS
		Low	Hop_2402	2.21	-57.67	≤-17.79	PASS
		High	Hop_2480	1.61	-56.86	≤-18.39	PASS

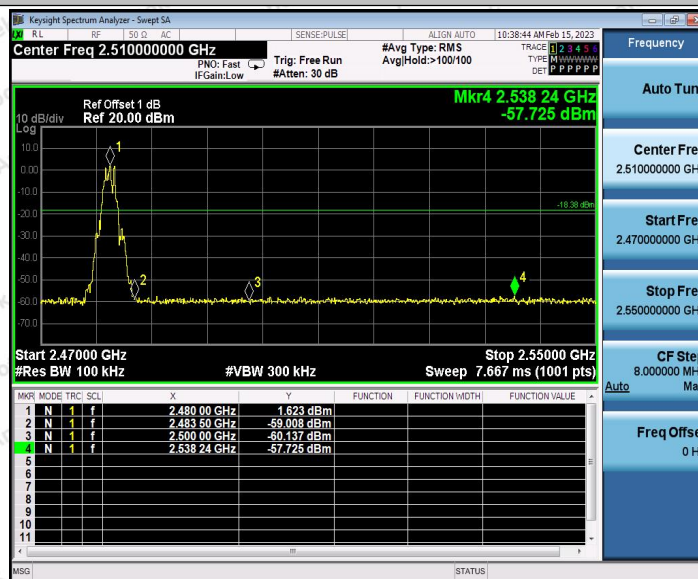


Test Graphs

2.4G_Ant1_Low_2403



2.4G_Ant1_High_2480



2.4G_Ant1_Low_Hop_2402

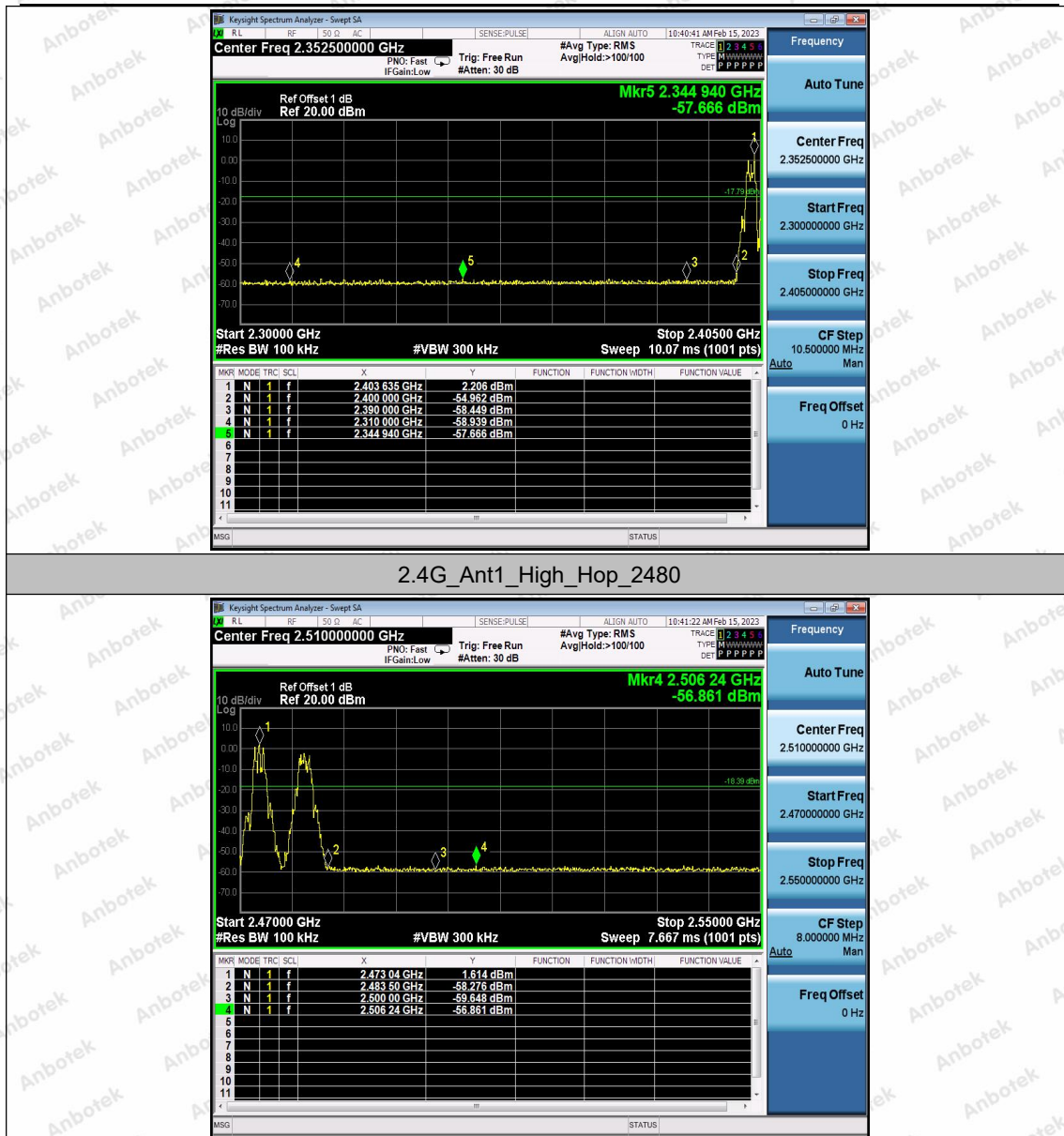
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403	Reference	2.28	2.28	---	PASS
			30~1000	2.28	-64.28	≤-17.72	PASS
			1000~26500	2.28	-53.63	≤-17.72	PASS
		2441	Reference	2.20	2.20	---	PASS
			30~1000	2.20	-62.8	≤-17.8	PASS
			1000~26500	2.20	-52.58	≤-17.8	PASS
		2480	Reference	1.64	1.64	---	PASS
			30~1000	1.64	-63.08	≤-18.36	PASS
			1000~26500	1.64	-49.36	≤-18.36	PASS



Test Graphs



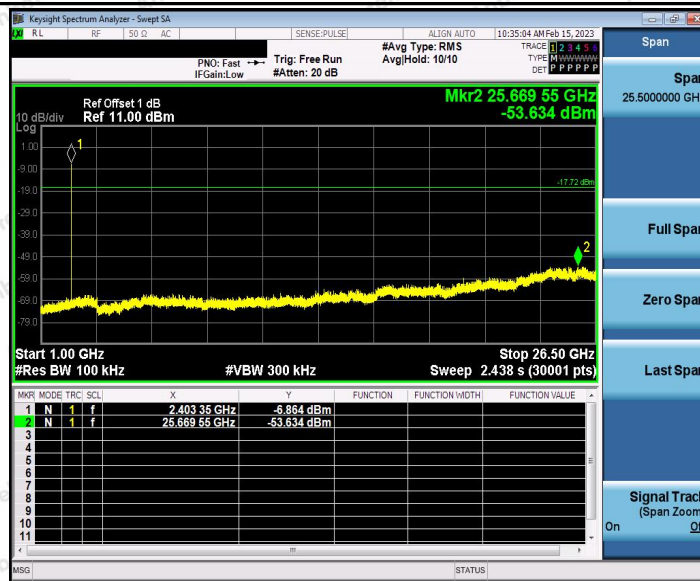
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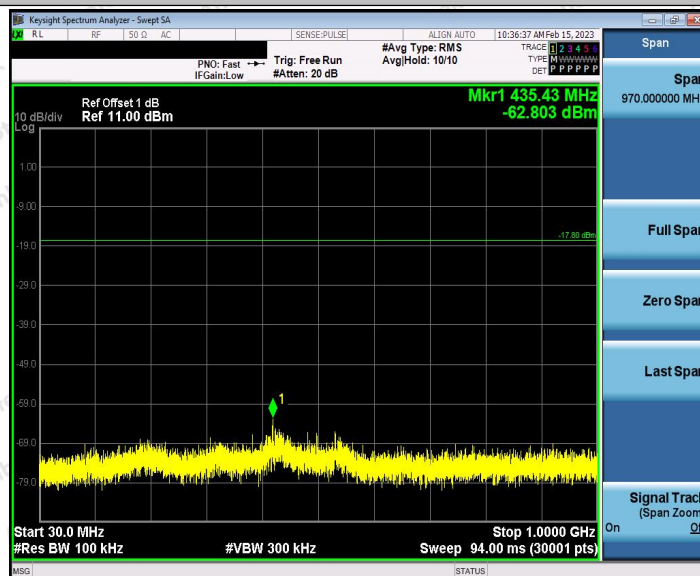




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



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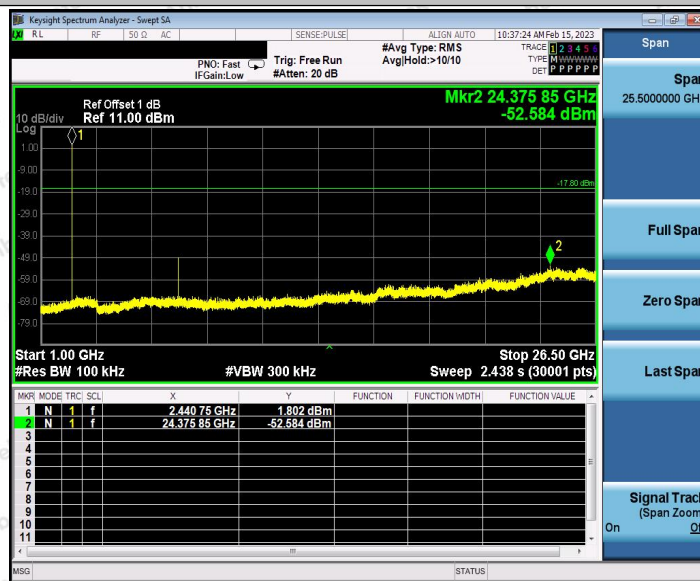
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2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2480_0~Reference



2.4G_Ant1_2480_30~1000

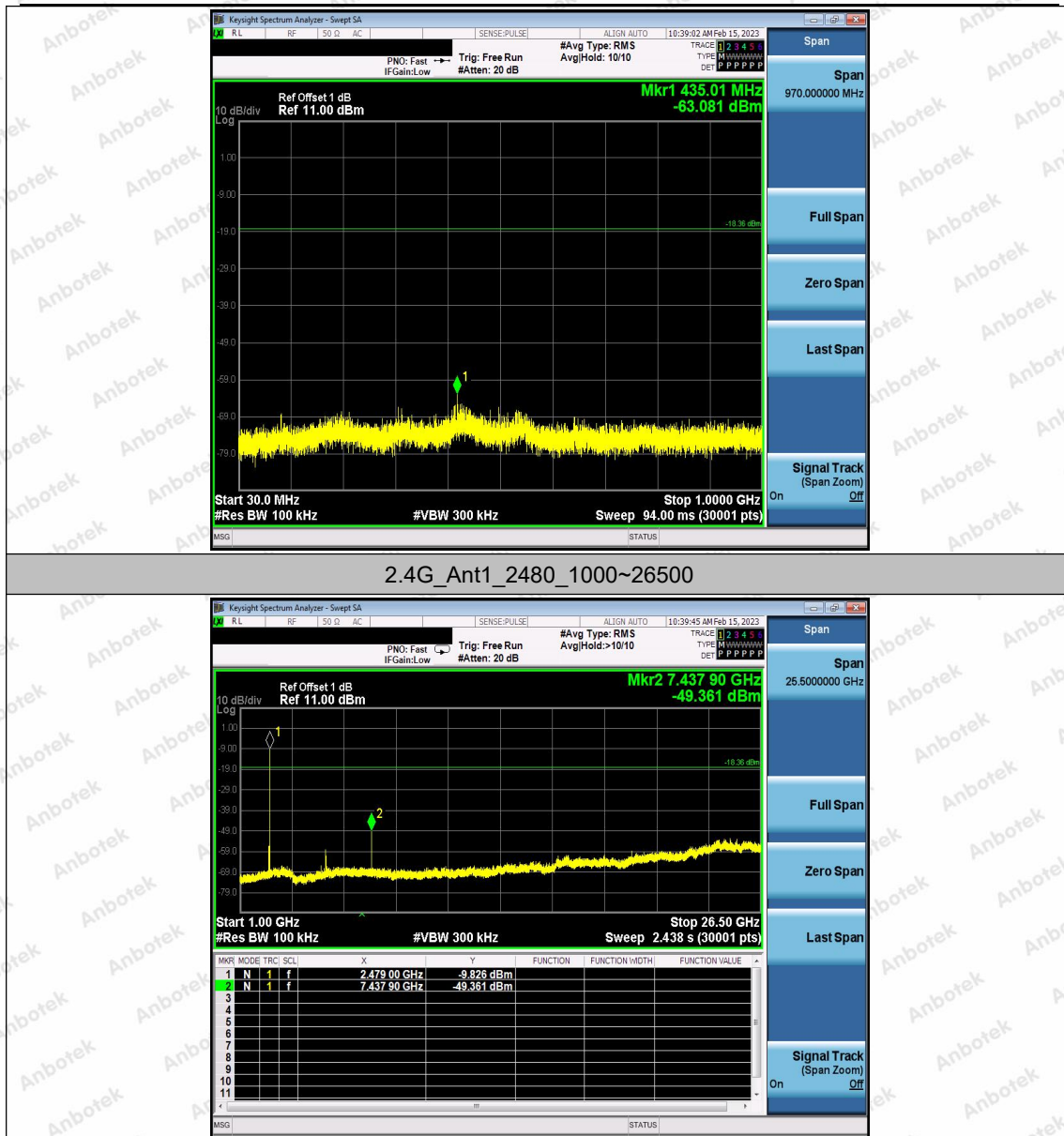
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	0.13	4.10	3.17	14.99
		2441	0.13	3.94	3.30	14.81
		2480	0.13	3.94	3.30	14.81

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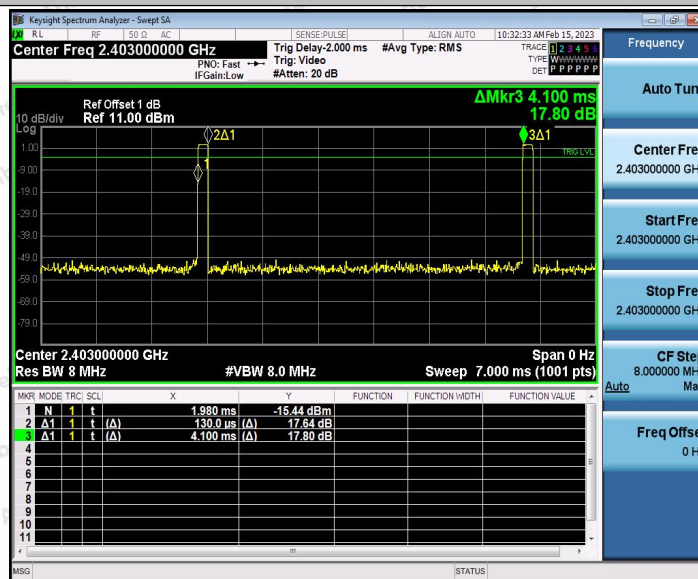


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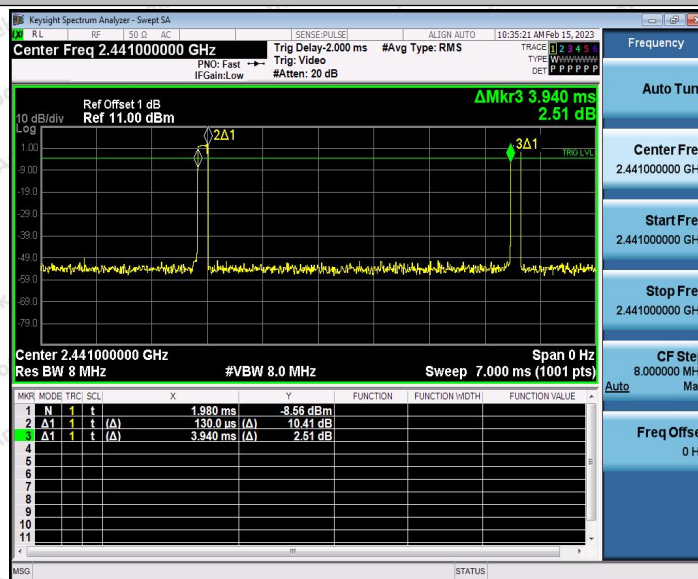


Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2480

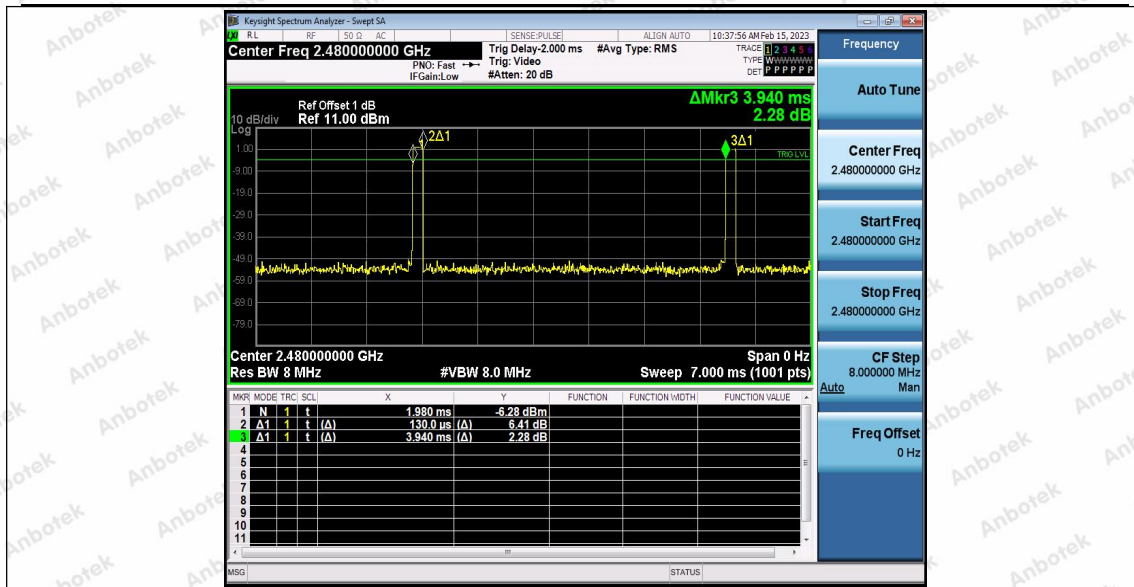
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