

Appendix Test Data

Report No.:	18220WC30085603	Test Sample No.:	1-2-2
Start Test Date:	2023.05.11	Finish Test Date:	2023.05.12
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	25.7℃	Relative Humidity:	45%
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	2.216	2401.984	2404.200	---	---
		2441	2.200	2439.992	2442.192	---	---
		2480	2.128	2478.992	2481.120	---	---



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	2.5207	2401.6153	2404.1360	---	---
		2441	2.4663	2439.6561	2442.1224	---	---
		2480	2.4173	2478.7092	2481.1265	---	---



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	4.43	≤30	PASS
		2441	3.7	≤30	PASS
		2480	3.37	≤30	PASS



Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2480

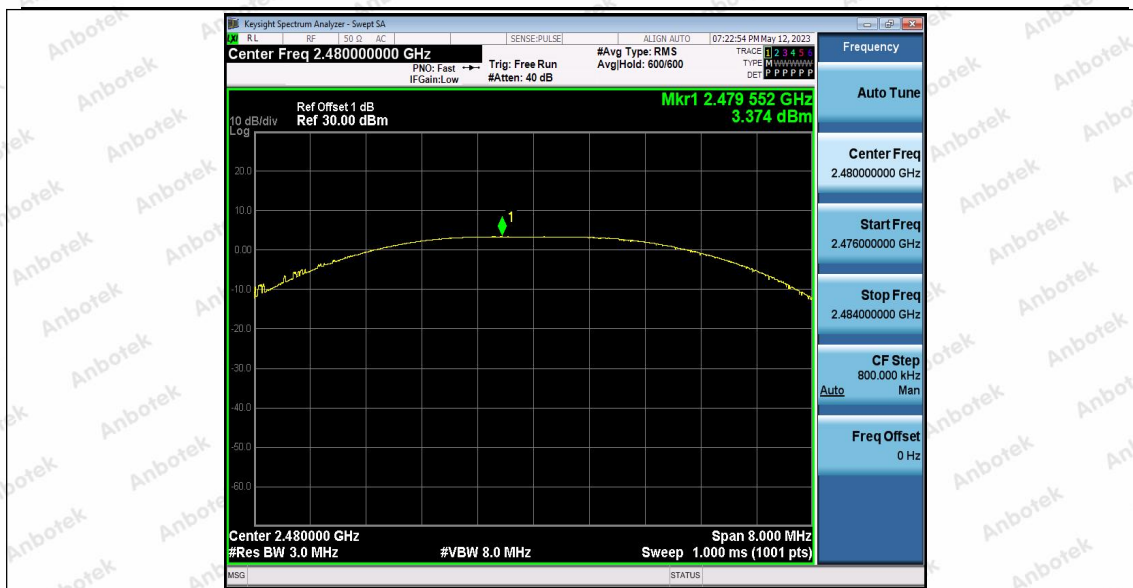
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.000	≥1.477	PASS

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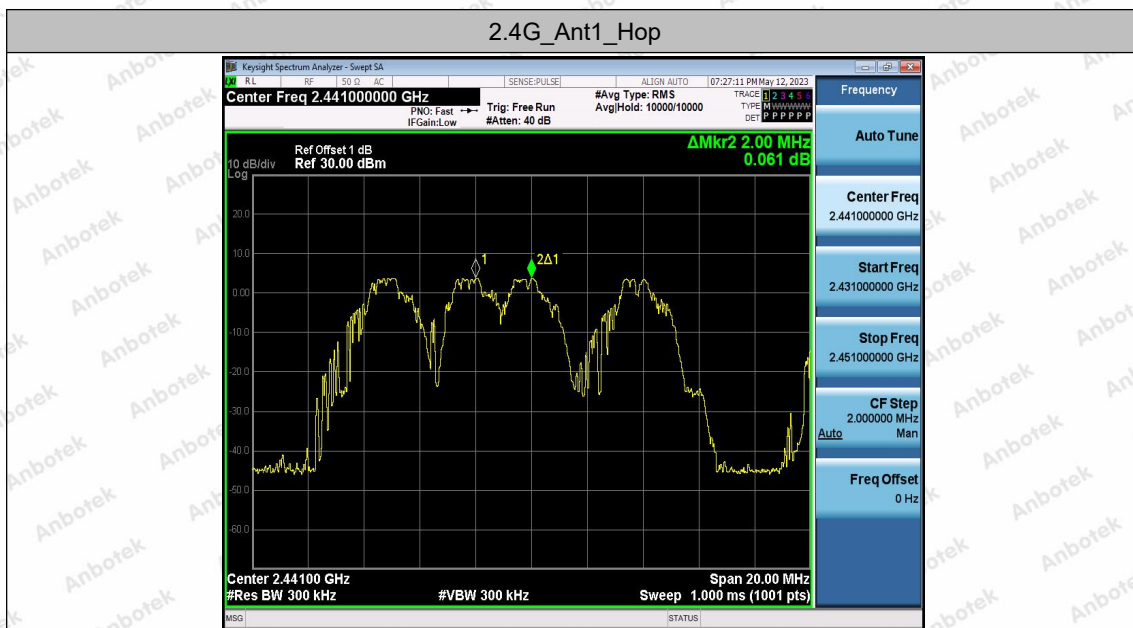
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Test Graphs



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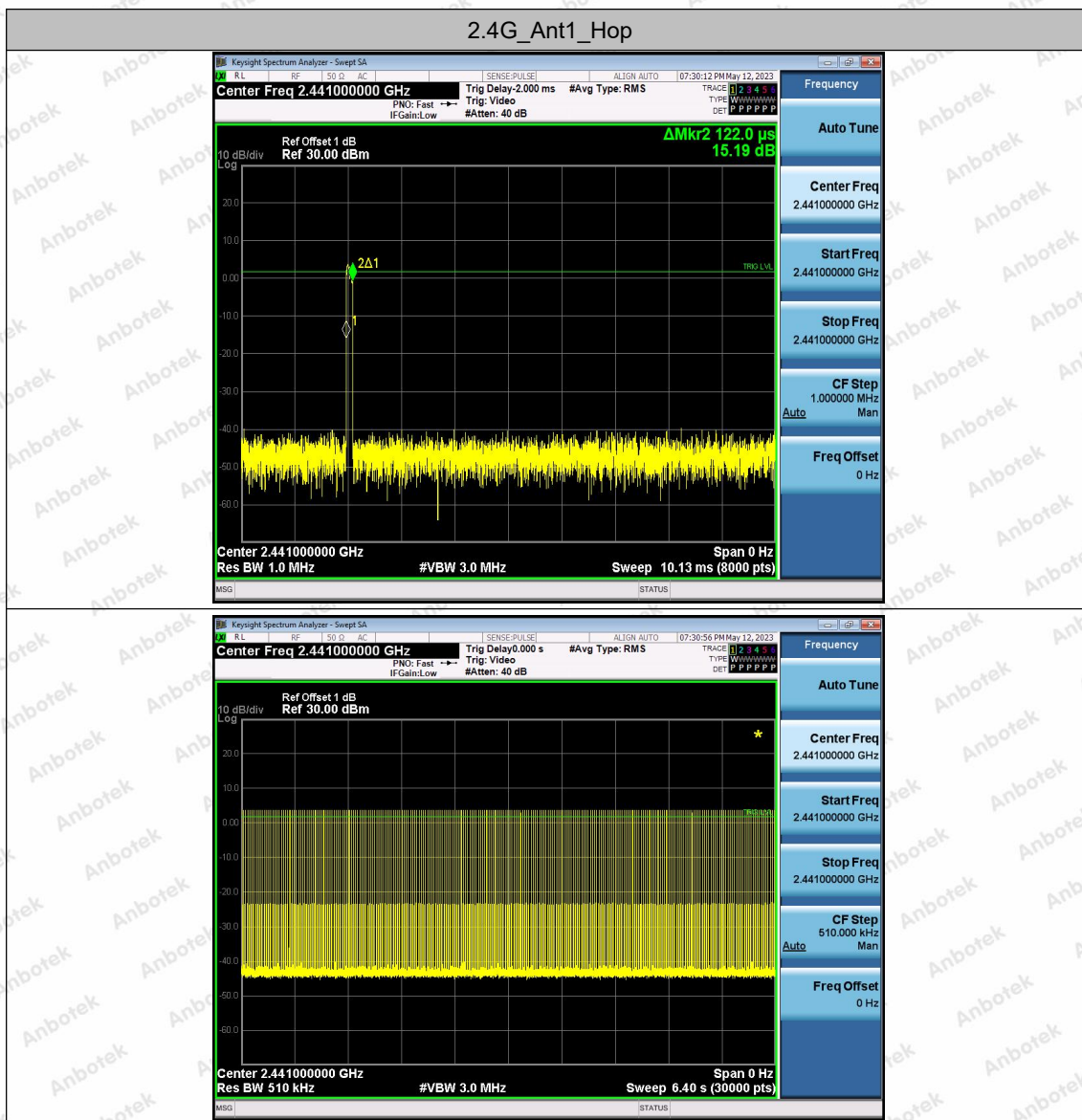
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.122	498	0.061	≤0.4	PASS



Test Graphs



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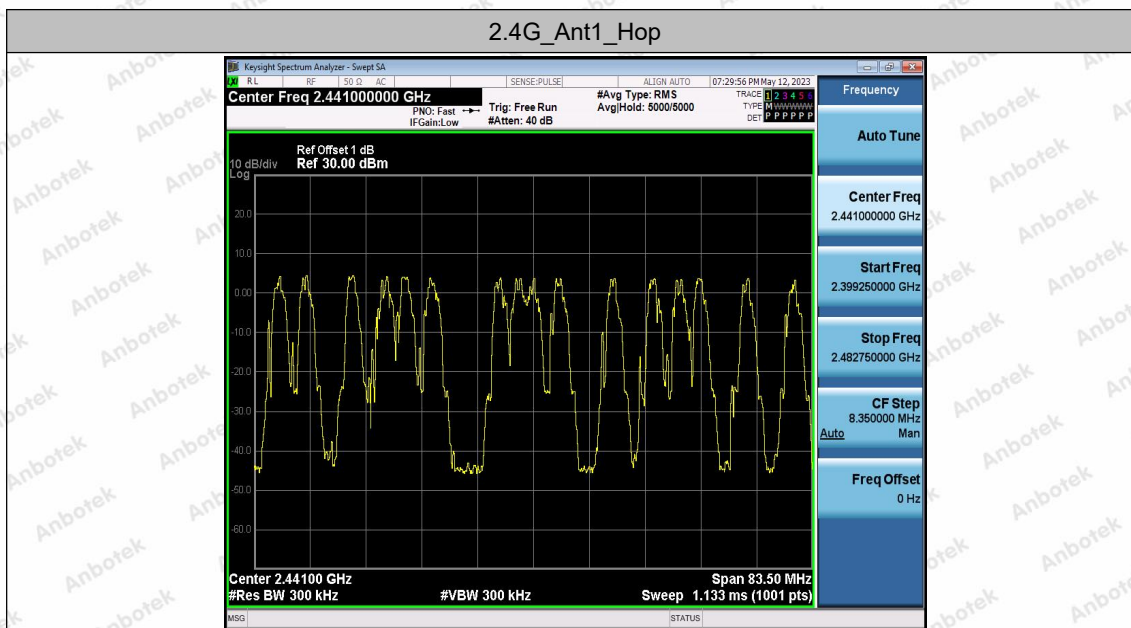
Appendix F: Number of hopping channels

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

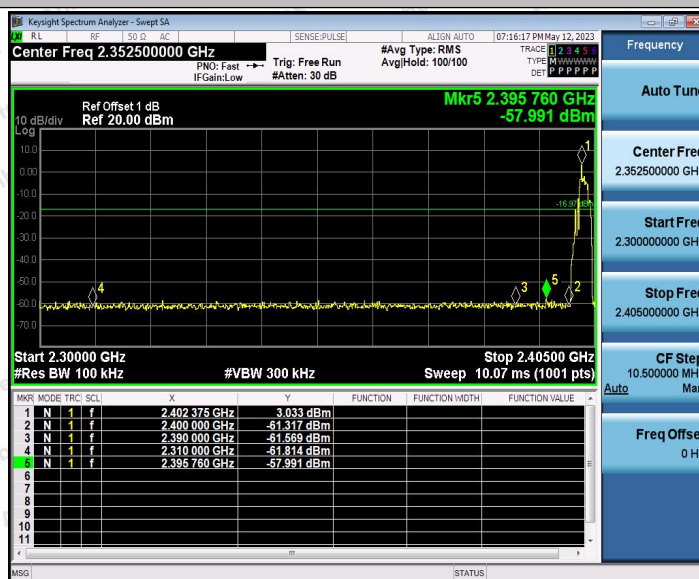
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	3.03	-57.99	≤-16.97	PASS
		High	2480	3.49	-57.63	≤-16.51	PASS
		Low	Hop_2403	3.95	-57.65	≤-16.05	PASS
		High	Hop_2480	3.07	-56.4	≤-16.93	PASS

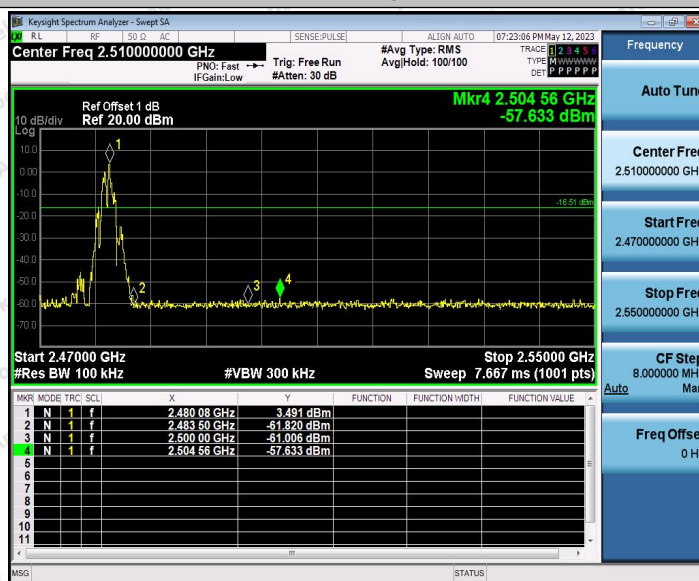


Test Graphs

2.4G_Ant1_Low_2403



2.4G_Ant1_High_2480



2.4G_Ant1_Low_Hop_2403

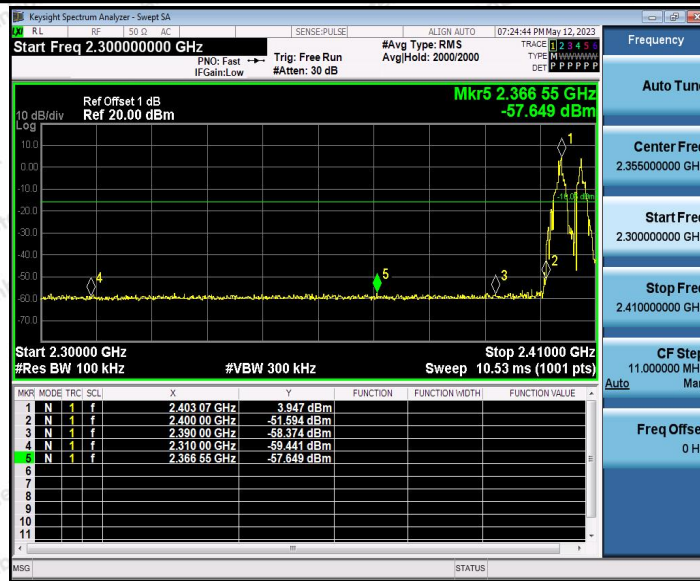
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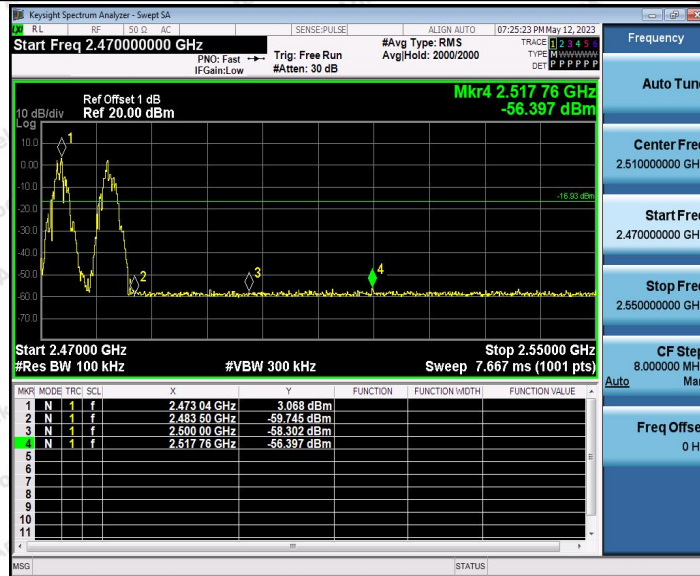


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2.4G_Ant1_High_Hop_2480



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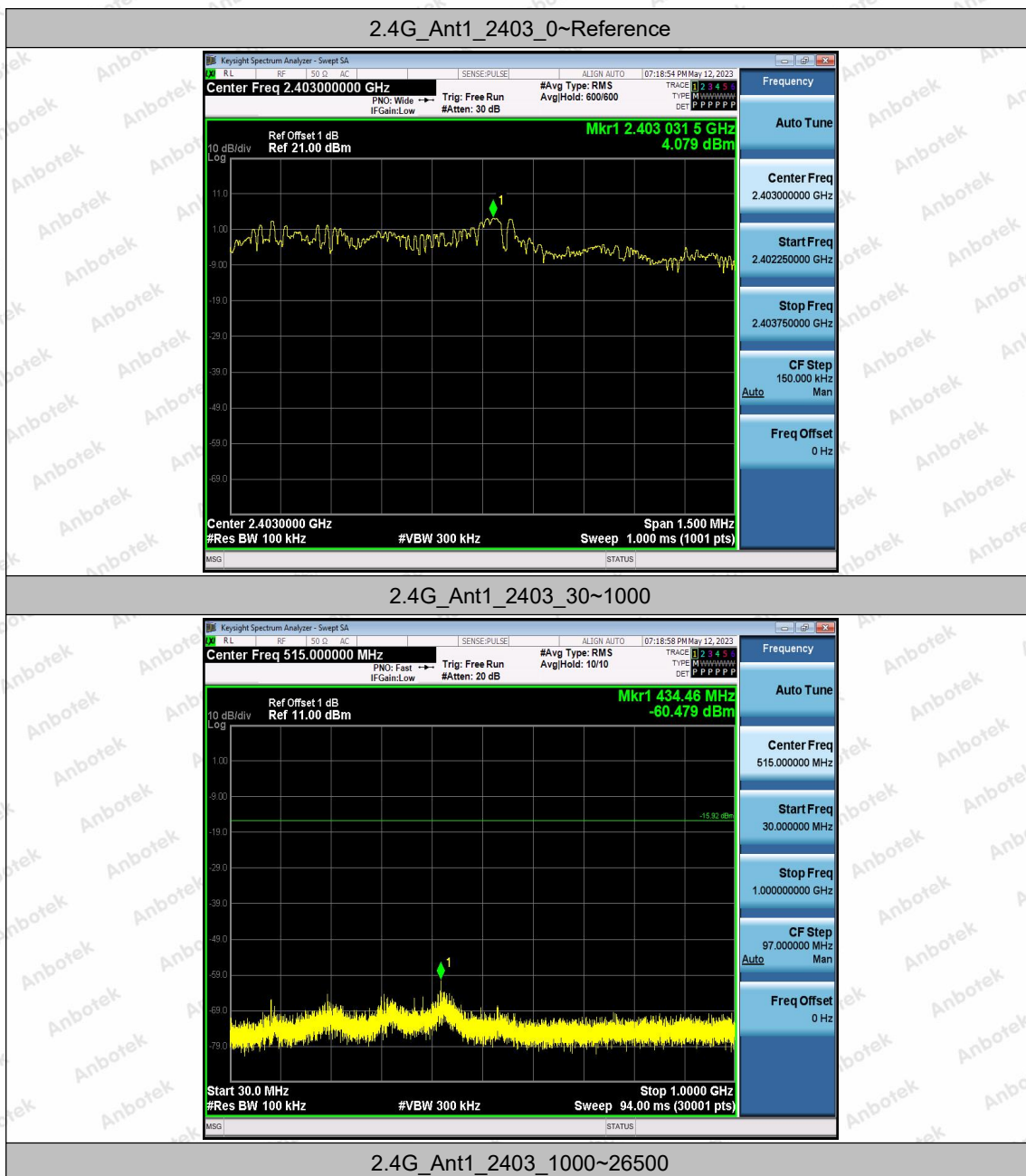
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403	Reference	4.08	4.08	---	PASS
			30~1000	4.08	-60.48	≤-15.92	PASS
			1000~26500	4.08	-38.04	≤-15.92	PASS
		2441	Reference	3.53	3.53	---	PASS
			30~1000	3.53	-59.61	≤-16.47	PASS
			1000~26500	3.53	-37.99	≤-16.47	PASS
		2480	Reference	3.20	3.20	---	PASS
			30~1000	3.20	-61.49	≤-16.8	PASS
			1000~26500	3.20	-53.74	≤-16.8	PASS



Test Graphs



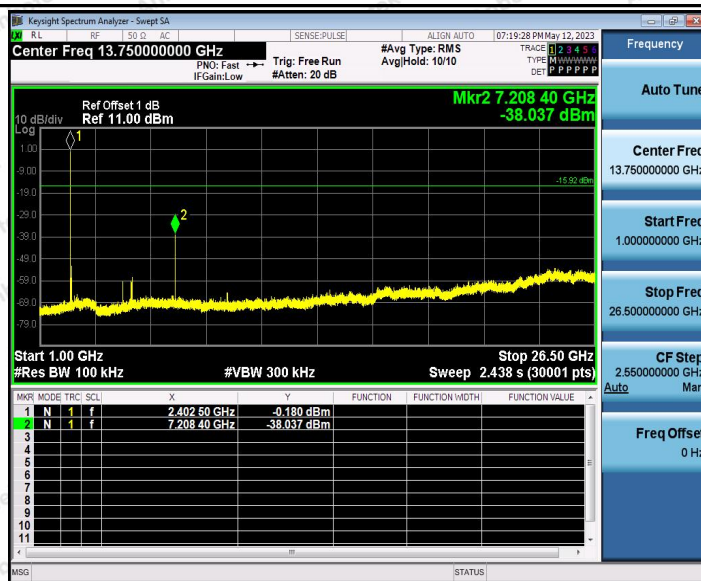
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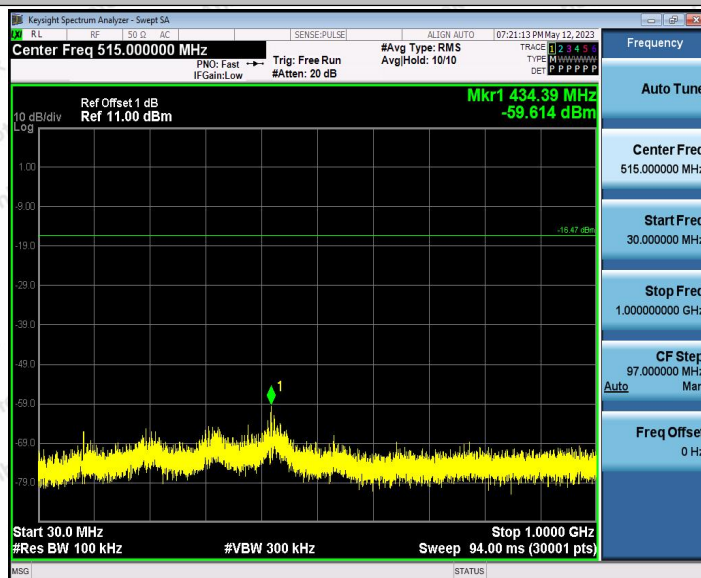




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



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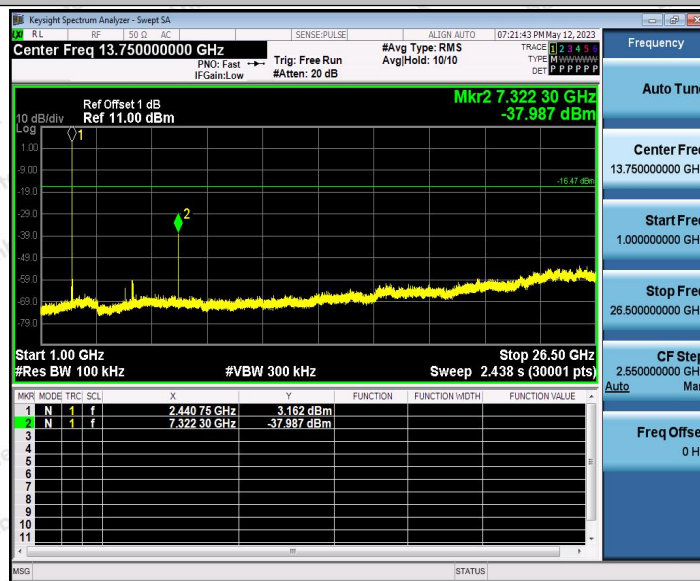
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2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2480_0~Reference



2.4G_Ant1_2480_30~1000

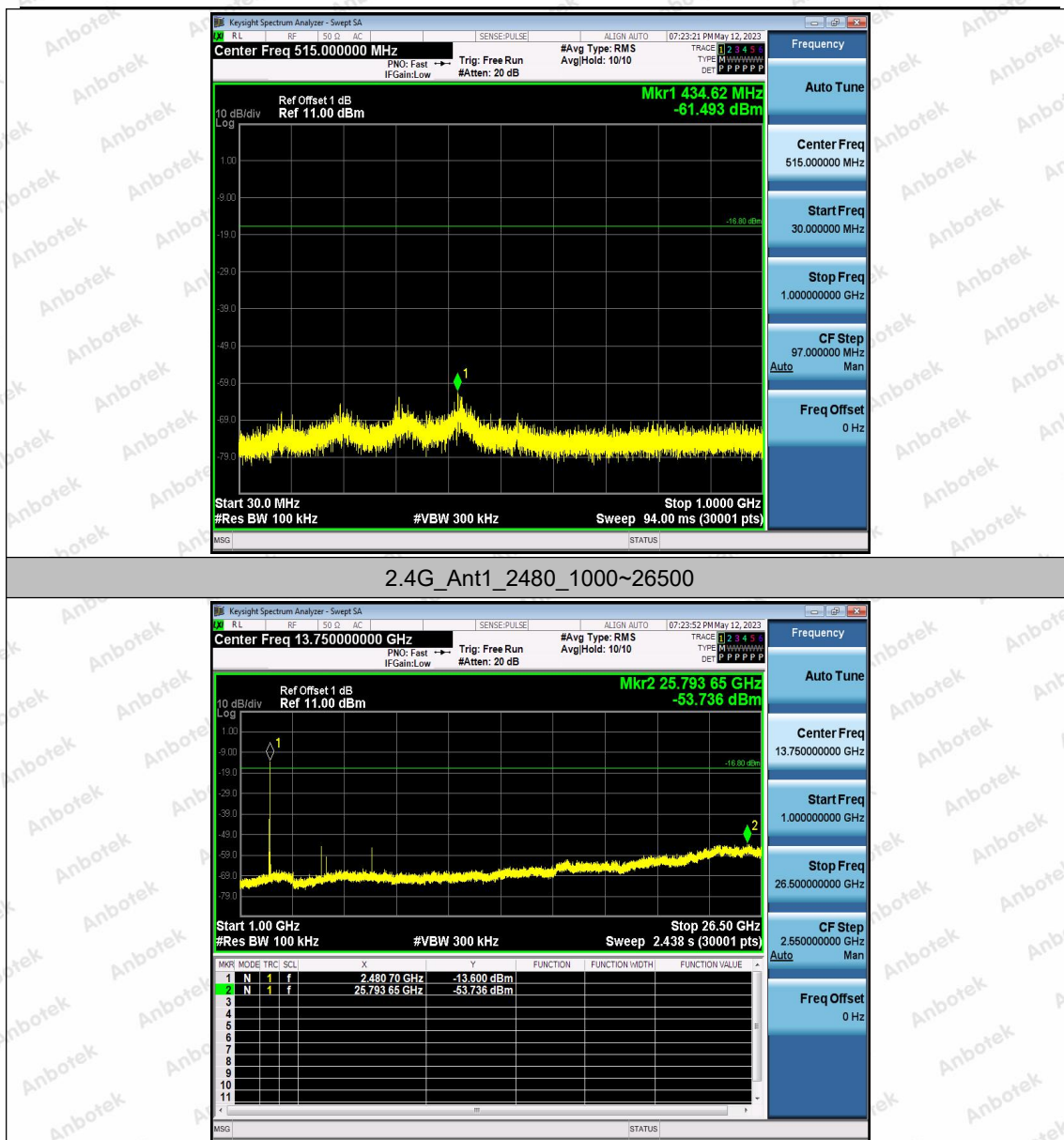
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Appendix I: Duty Cycle

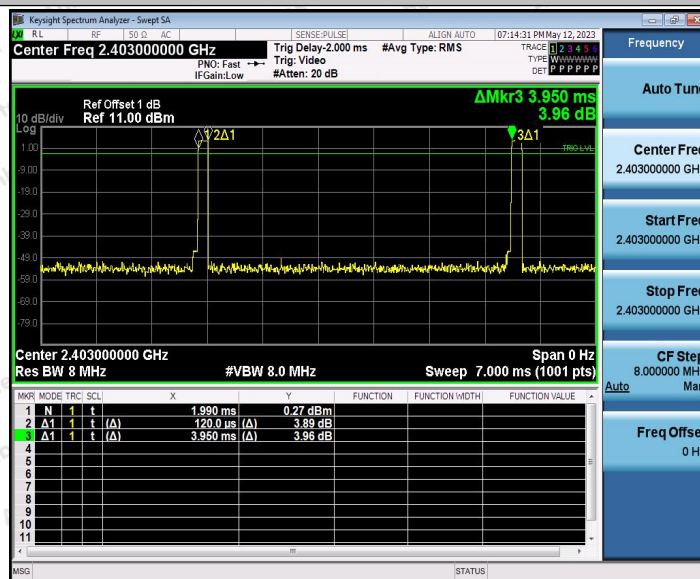
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	0.12	3.95	3.04	15.17
		2441	0.12	3.95	3.04	15.17
		2480	0.12	3.95	3.04	15.17

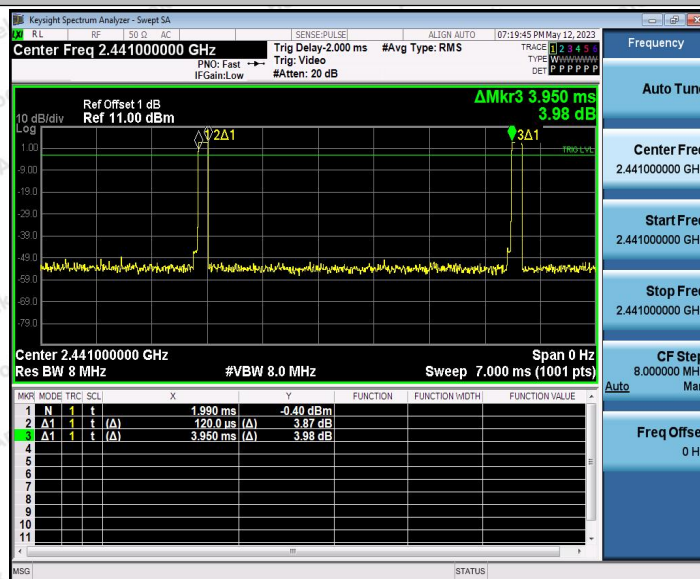


Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2480

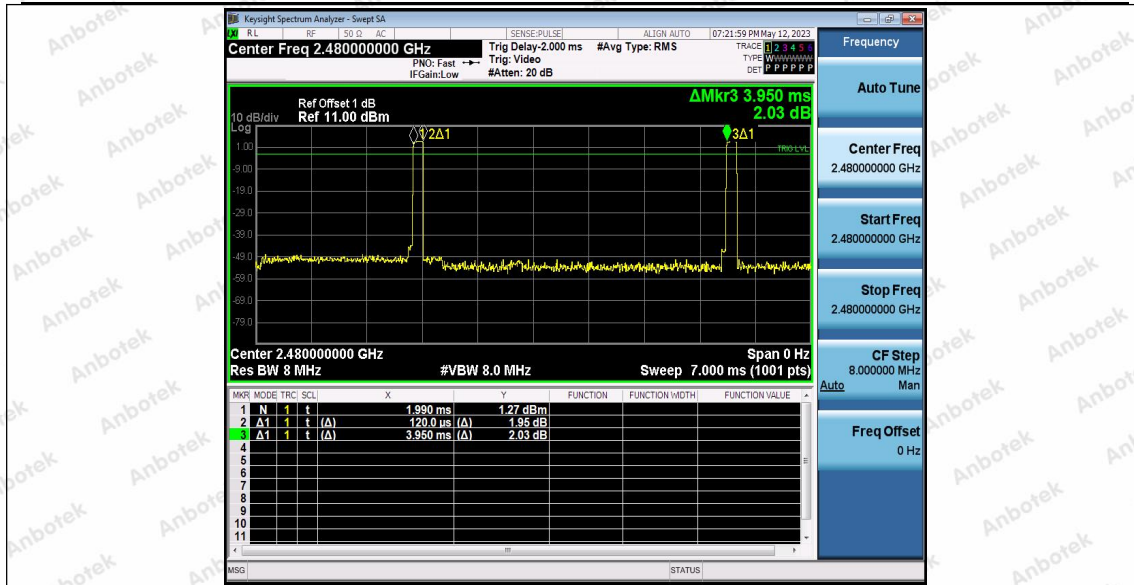
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