

Appendix Test Data

Report No.:	18220WC30058401	Test Sample No.:	1-2-2
Start Test Date:	2023.04.07	Finish Test Date:	2023.04.13
Test Engineer:	Rock Luo	Auditor:	Edward Pan
Temperature:	25.1℃	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	2408	2.067	2406.941	2409.008	---	---
		2436	2.070	2434.962	2437.032	---	---
		2468	2.061	2466.983	2469.044	---	---



Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2436



2.4G_Ant1_2468

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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	2408	2.0287	2406.9630	2408.9917	---	---
		2436	2.0295	2434.9799	2437.0094	---	---
		2468	2.0253	2467.0015	2469.0268	---	---



Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2436



2.4G_Ant1_2468

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Appendix C: Maximum conducted output power

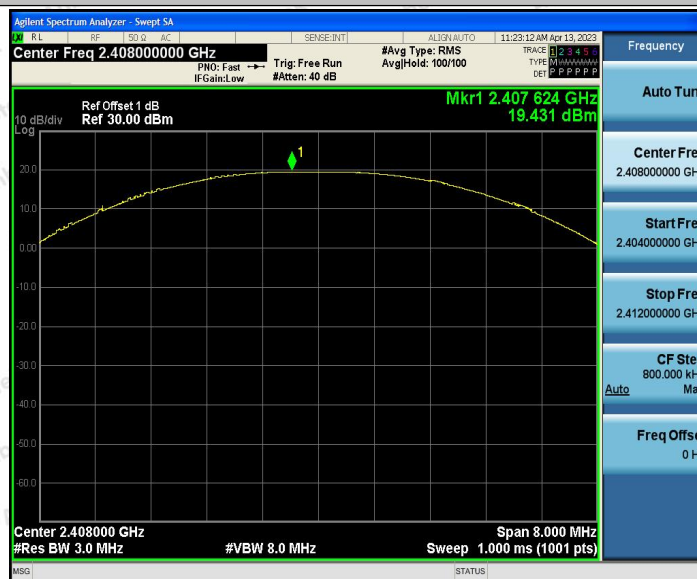
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2408	19.43	≤20.97	PASS
		2436	19.15	≤20.97	PASS
		2468	20.31	≤20.97	PASS

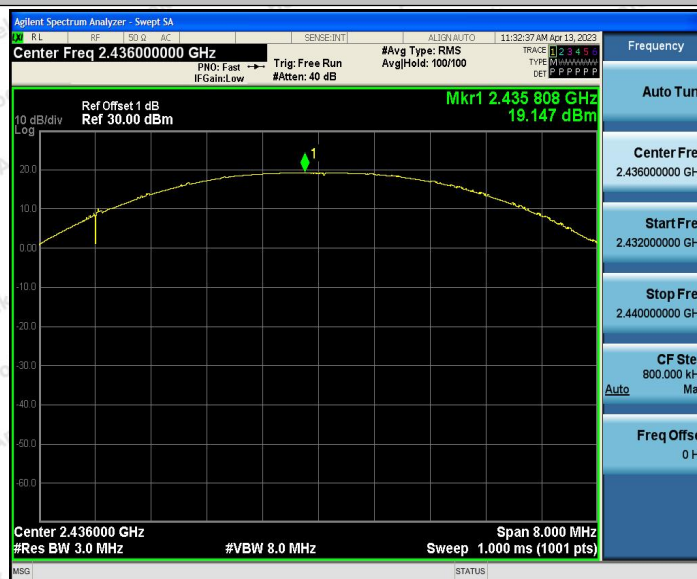


Test Graphs

2.4G_Ant1_2408



2.4G_Ant1_2436



2.4G_Ant1_2468

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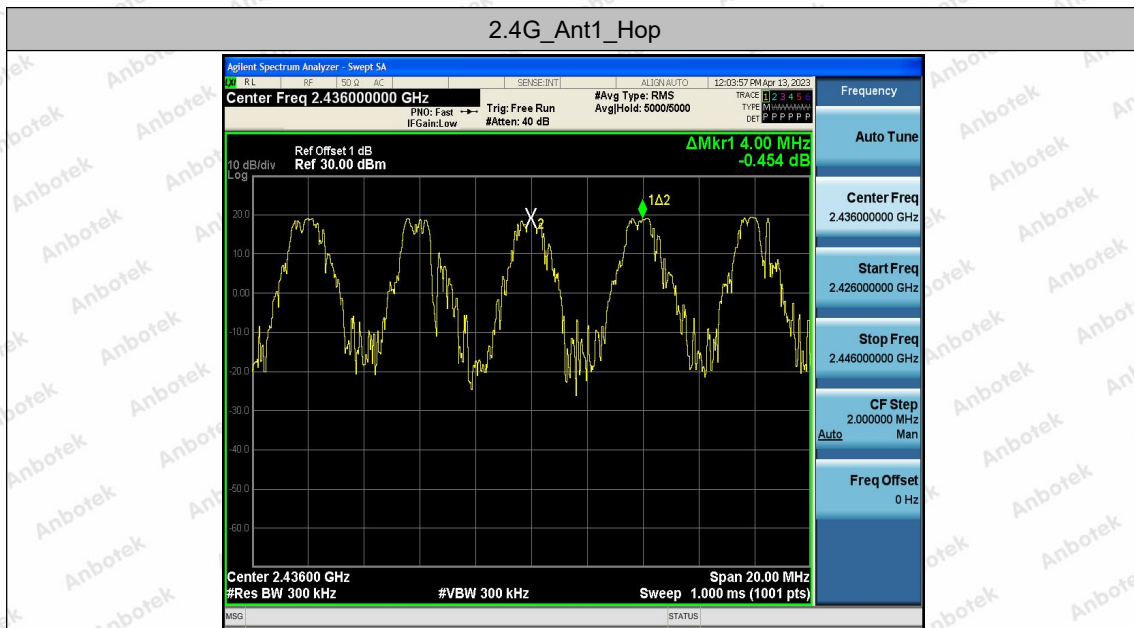
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	4.00	≥1.380	PASS



Test Graphs



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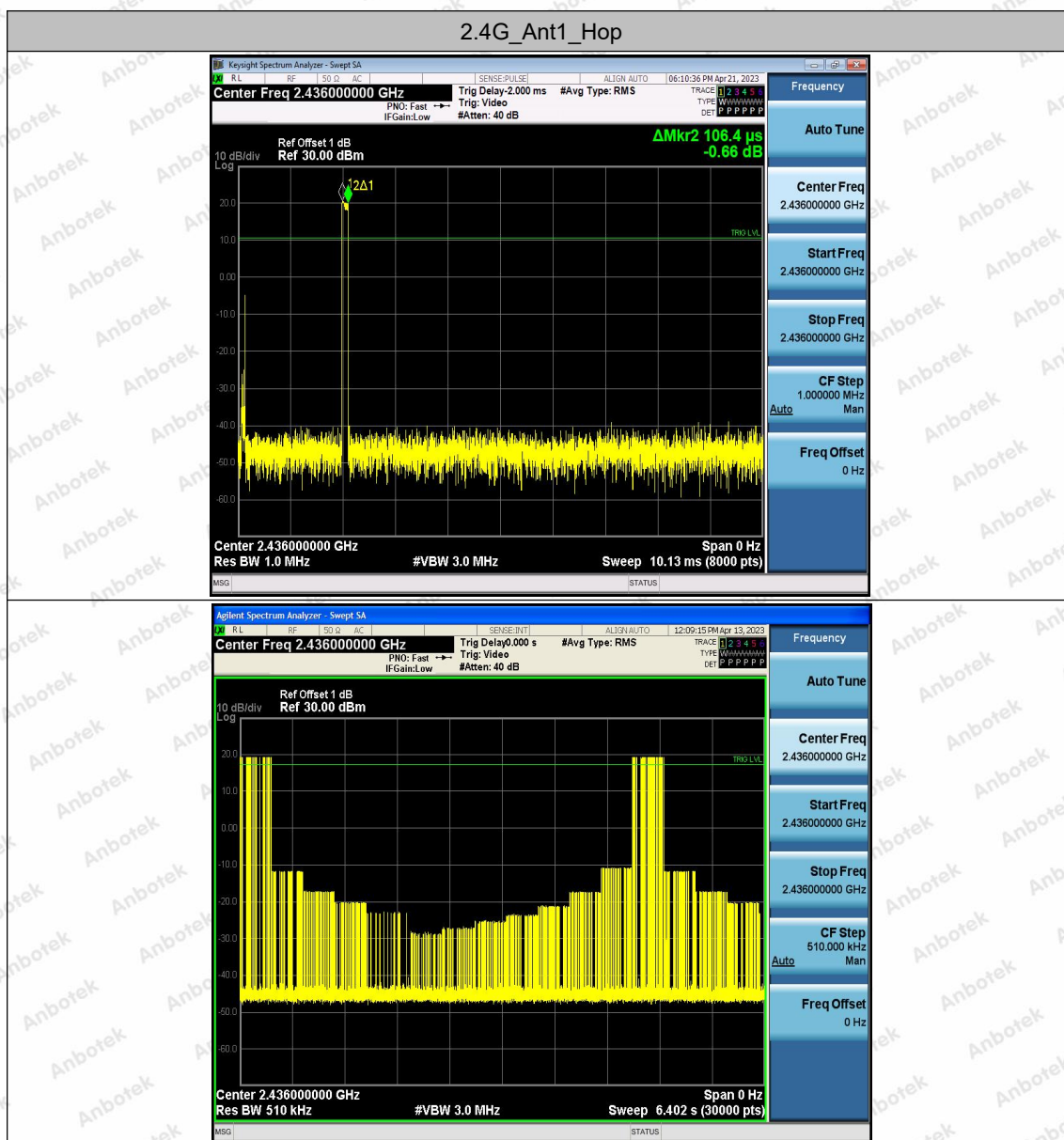
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.106	77	0.008	≤0.4	PASS



Test Graphs



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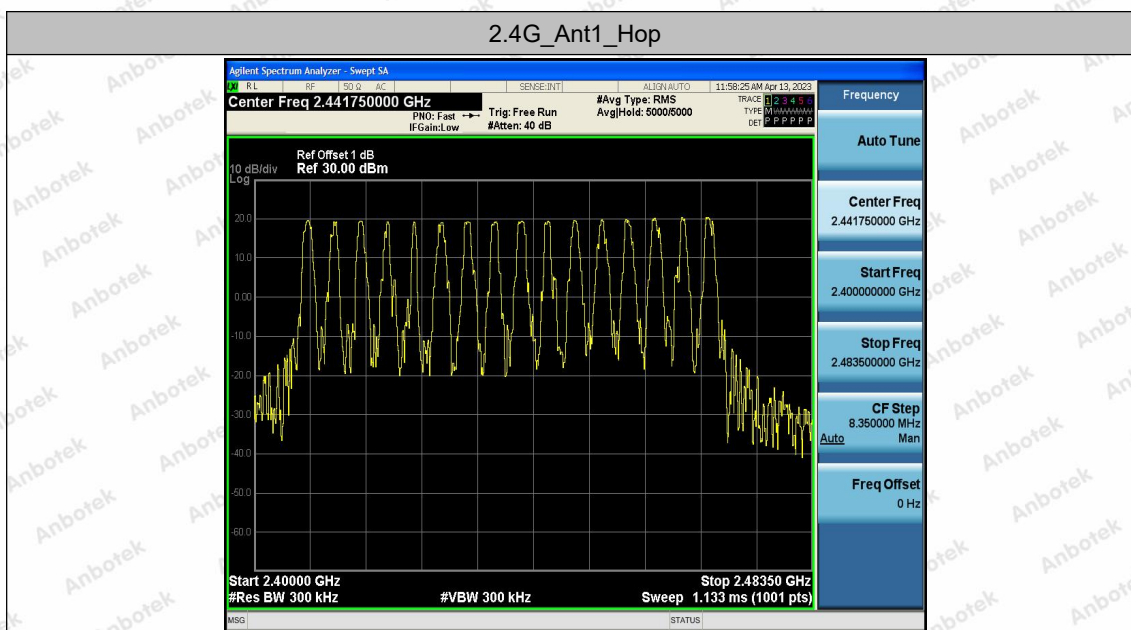
Appendix F: Number of hopping channels

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

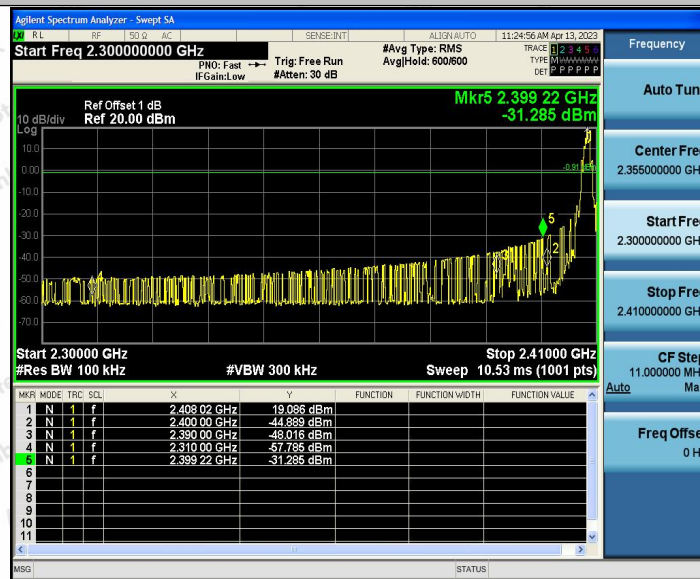
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2408	19.09	-31.29	≤-0.91	PASS
		High	2468	19.98	-35.66	≤-0.02	PASS
		Low	Hop_2408	19.41	-37.86	≤-0.59	PASS
		High	Hop_2468	20.83	-43.04	≤0.83	PASS



Test Graphs

2.4G_Ant1_Low_2408



2.4G_Ant1_High_2468



2.4G_Ant1_Low_Hop_2408

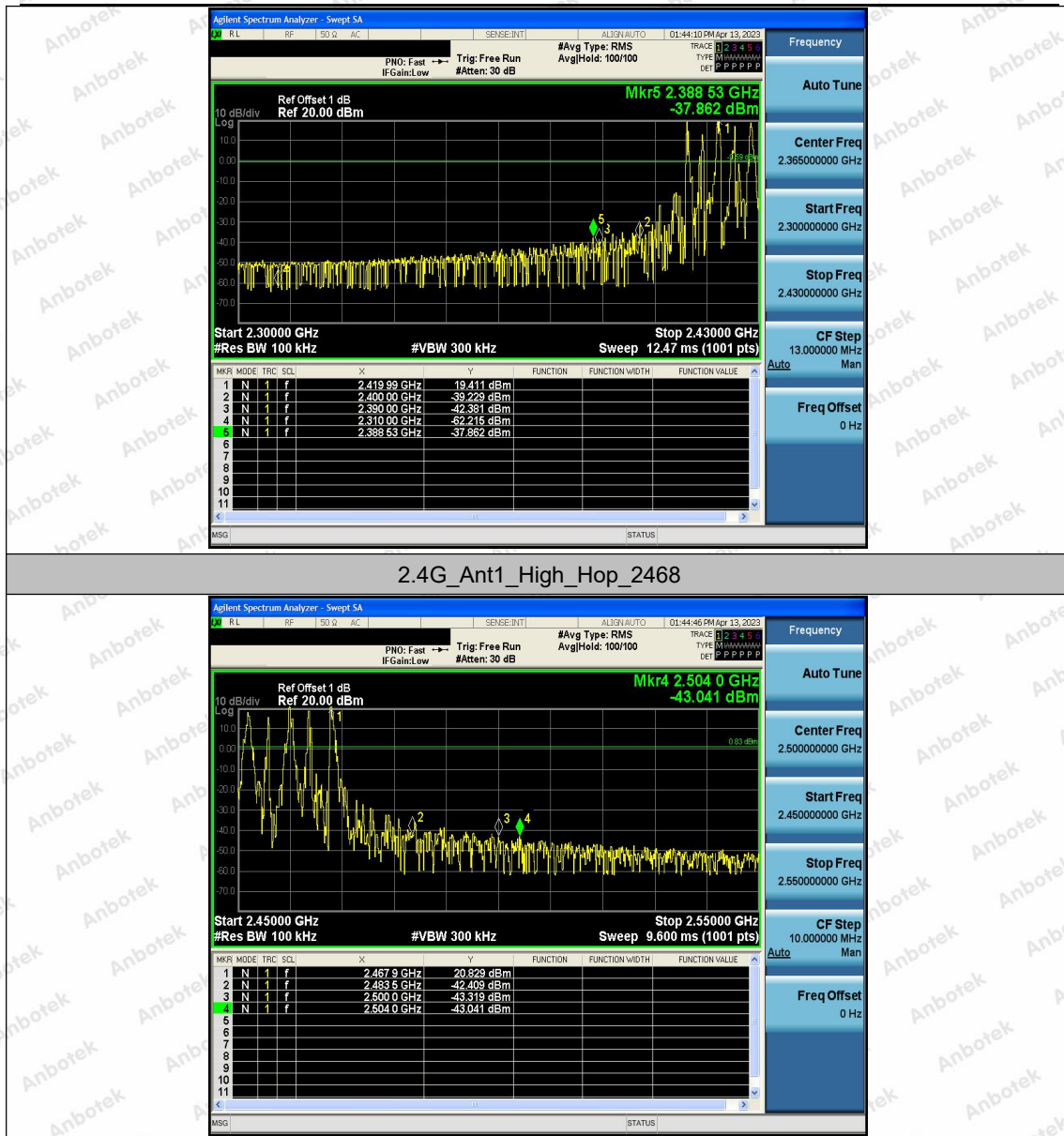
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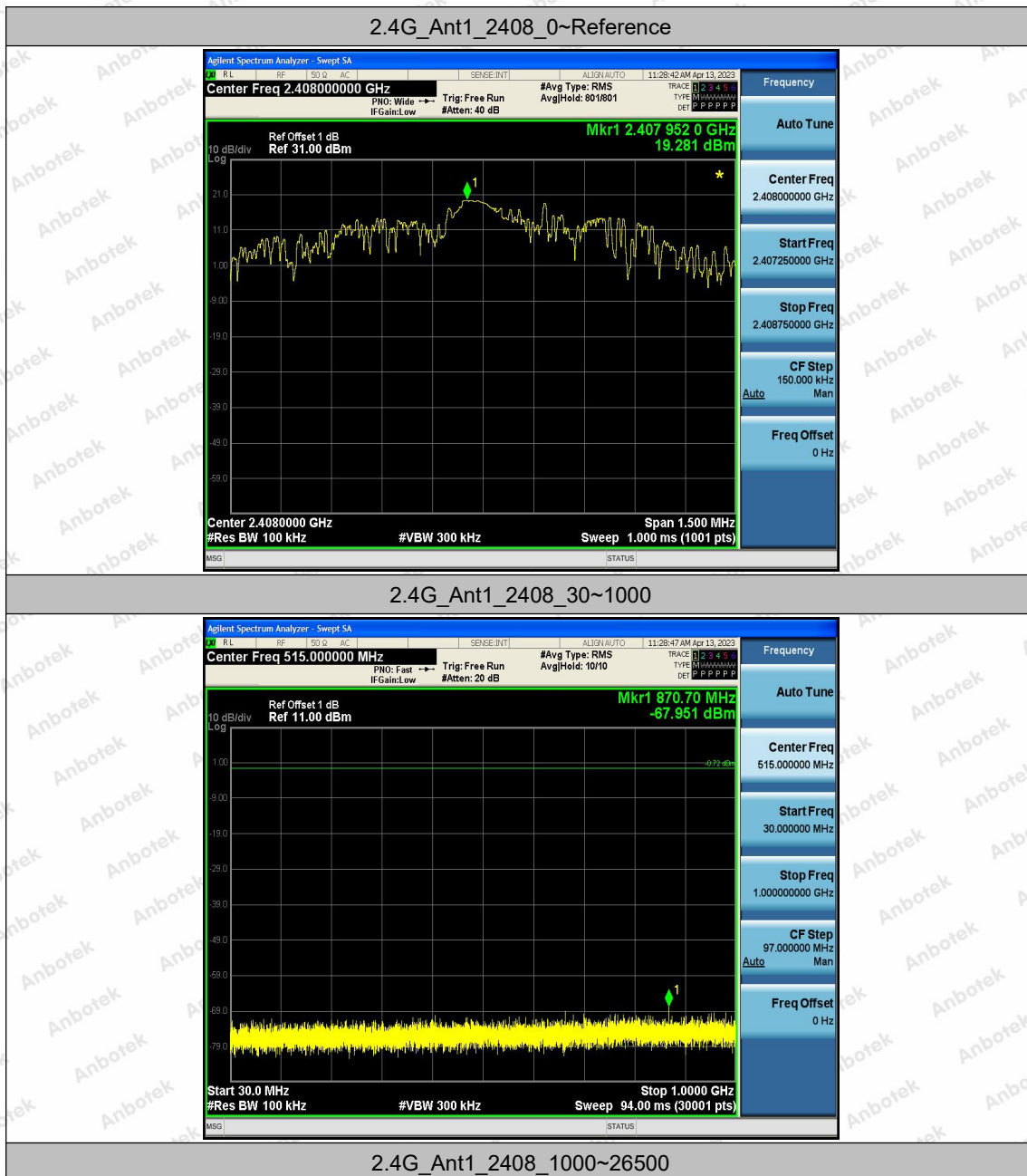
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2408	Reference	19.28	19.28	---	PASS
			30~1000	19.28	-67.95	≤-0.72	PASS
			1000~26500	19.28	-46.13	≤-0.72	PASS
		2436	Reference	19.02	19.02	---	PASS
			30~1000	19.02	-69.26	≤-0.98	PASS
			1000~26500	19.02	-36.32	≤-0.98	PASS
		2468	Reference	20.25	20.25	---	PASS
			30~1000	20.25	-69.16	≤0.25	PASS
			1000~26500	20.25	-31.79	≤0.25	PASS



Test Graphs



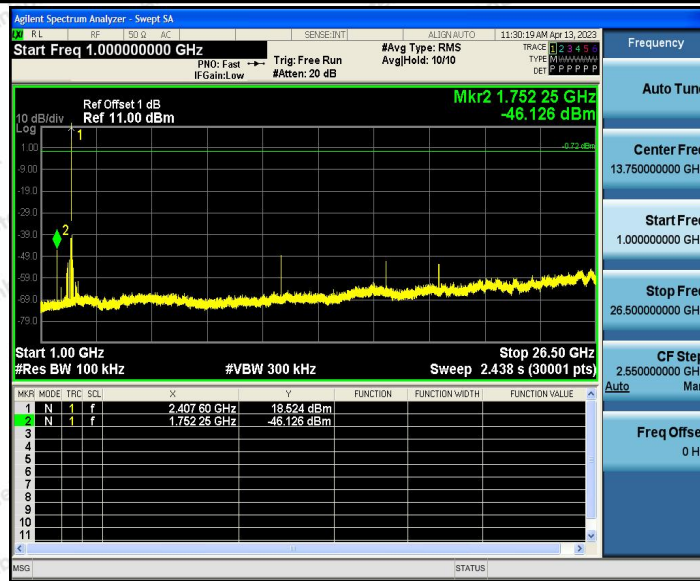
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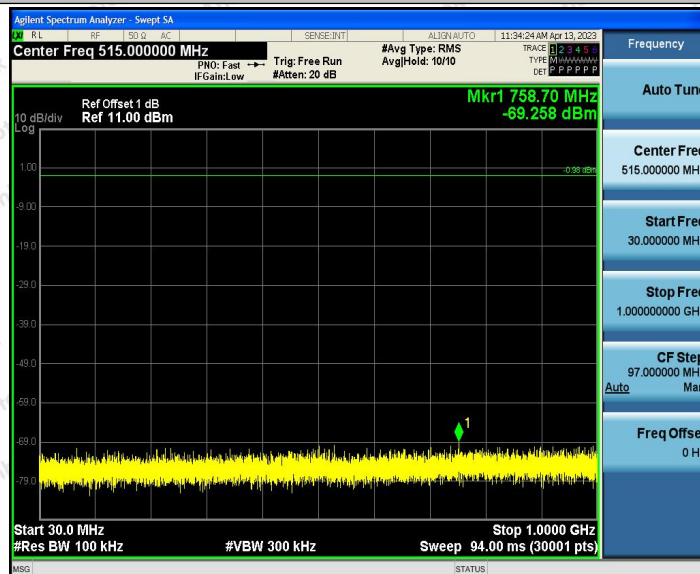




2.4G_Ant1_2436_0~Reference



2.4G_Ant1_2436_30~1000



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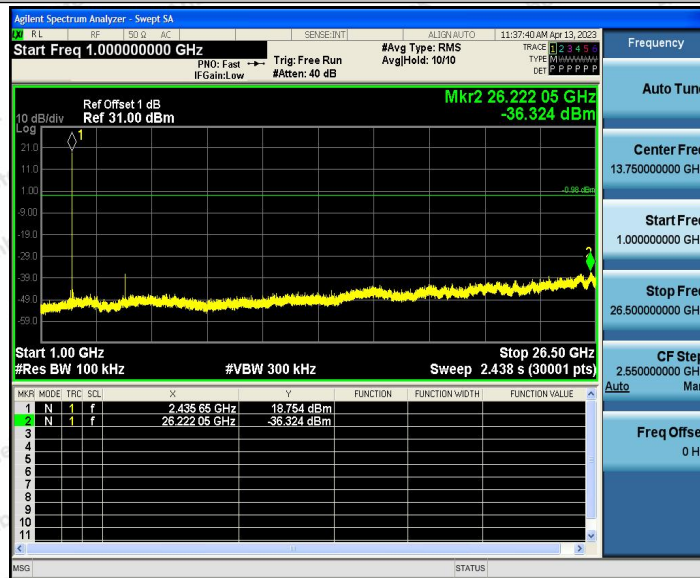
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2.4G_Ant1_2436_1000~26500



2.4G_Ant1_2468_0~Reference



2.4G_Ant1_2468_30~1000

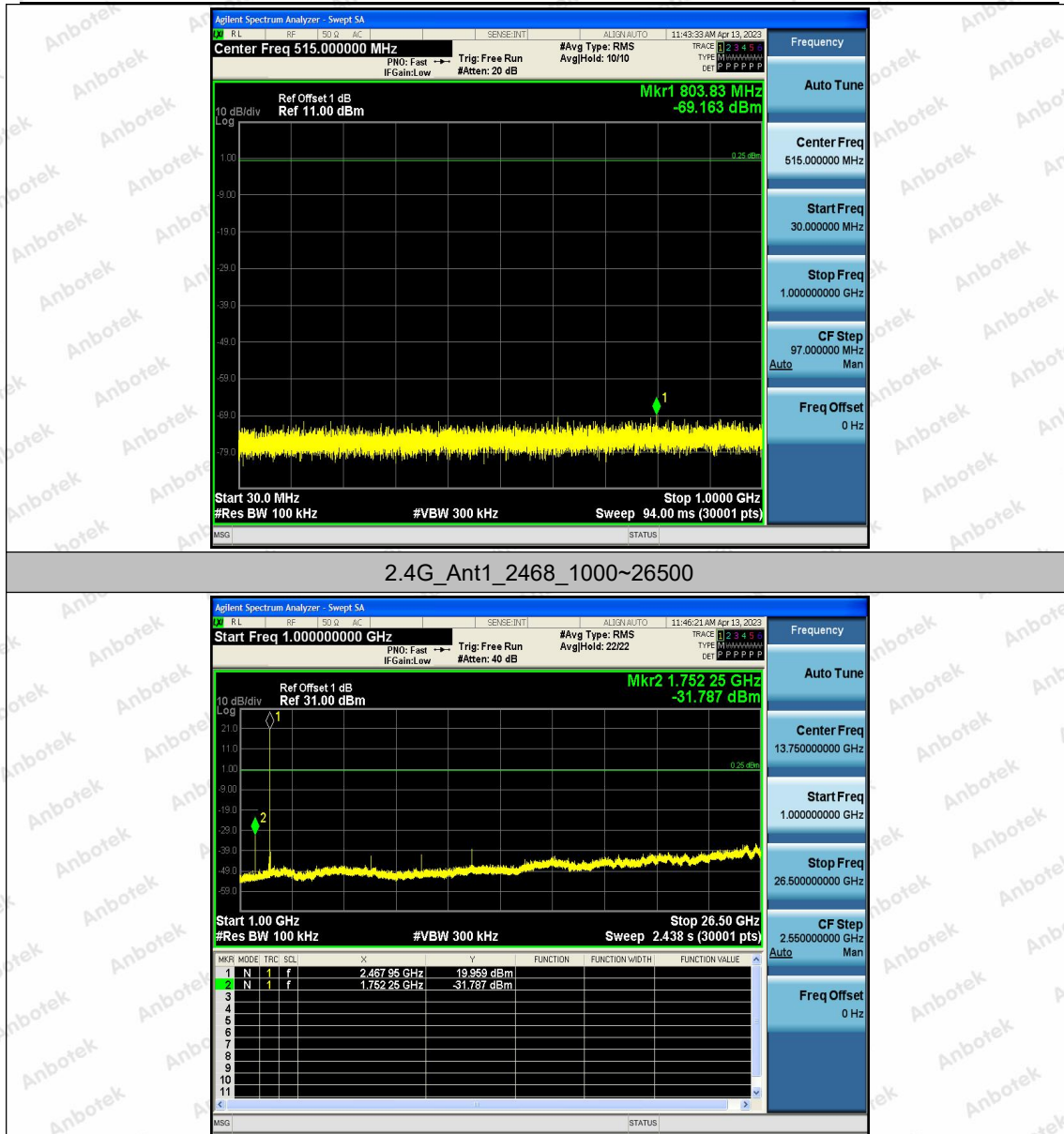
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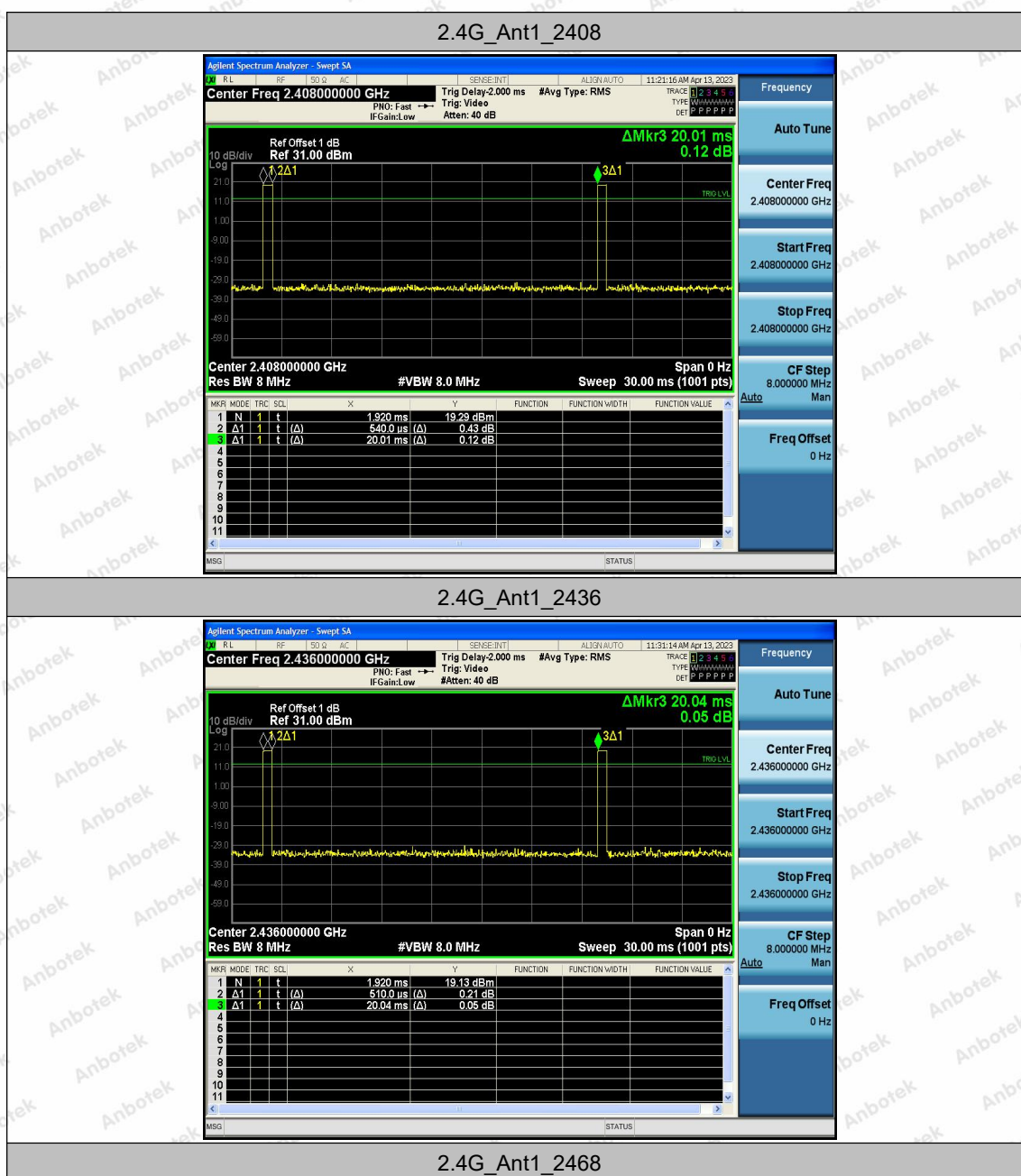
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2408	0.54	20.01	2.70	15.69
		2436	0.51	20.04	2.54	15.95
		2468	0.51	20.01	2.55	15.93



Test Graphs



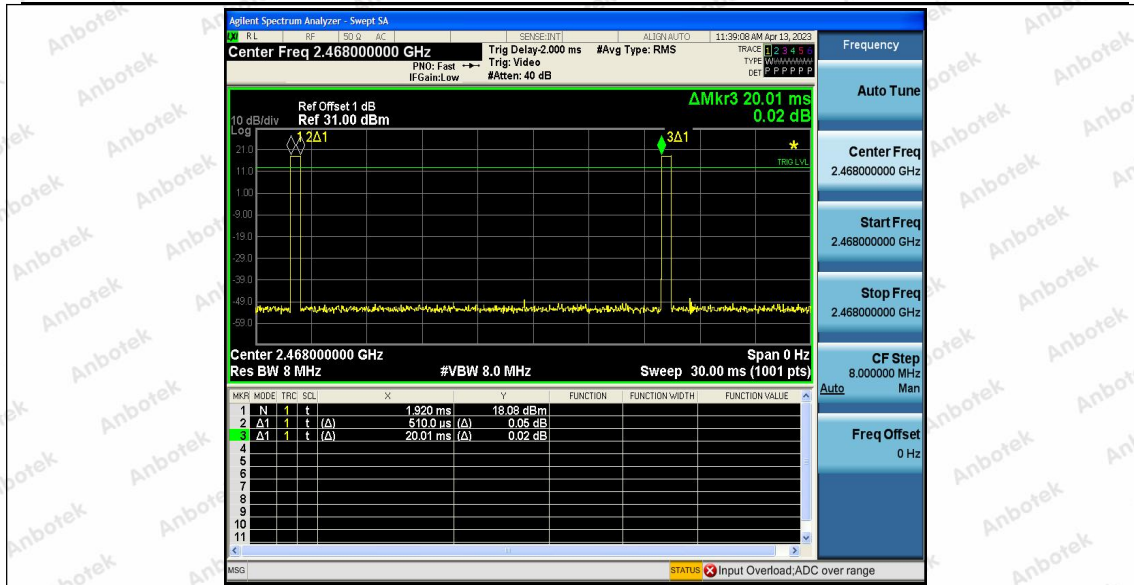
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