

Appendix Test Data

Report No.:	18220WC30032101	Test Sample No.:	1-2-2
Start Test Date:	2023.03.03	Finish Test Date:	2023.04.20
Test Engineer:	Rock Luo	Auditor:	Edward Pan
Temperature:	25.5℃	Relative Humidity:	53%
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	2403.9	0.981	2403.396	2404.377
		2440.9	0.972	2440.396	2441.368
		2479.9	0.996	2479.378	2480.374



Test Graphs

2.4G_Ant1_2403.9



2.4G_Ant1_2440.9



2.4G_Ant1_2479.9

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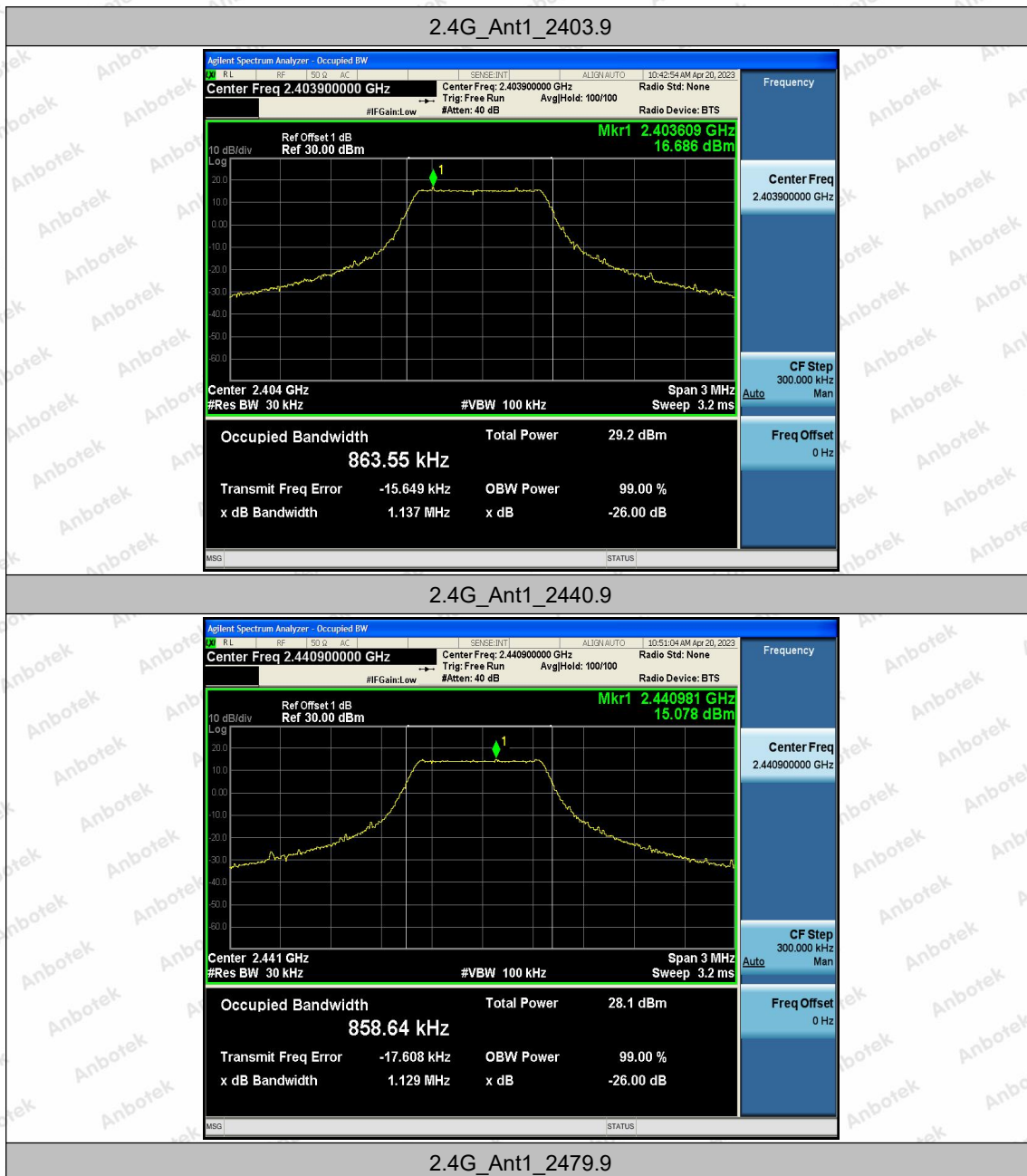
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2403.9	0.86355	2403.4526	2404.3161
		2440.9	0.85864	2440.4531	2441.3117
		2479.9	0.86009	2479.4504	2480.3105



Test Graphs



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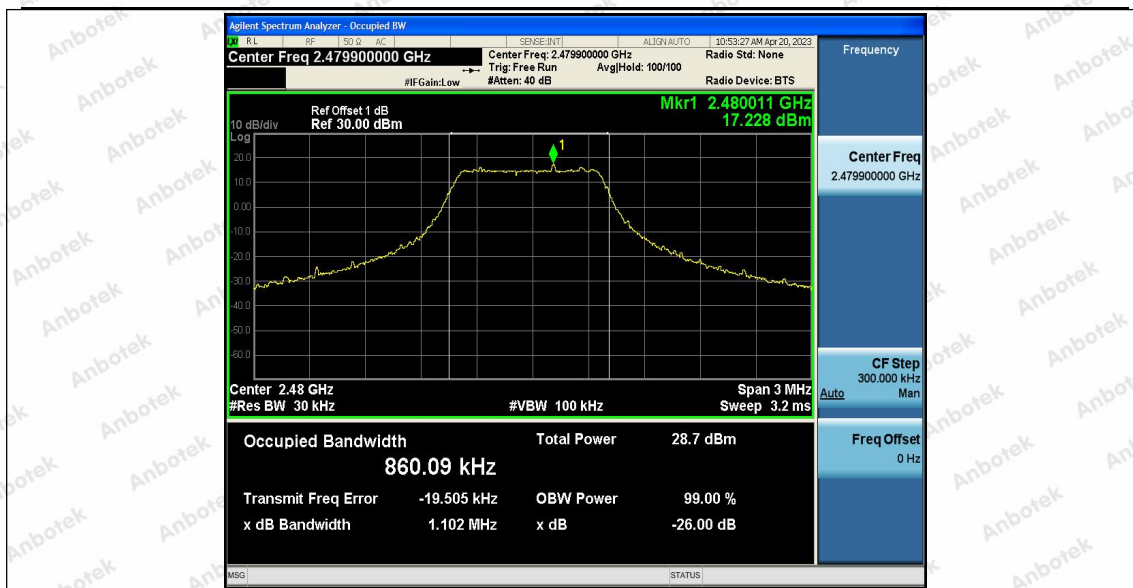


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Appendix C: Maximum conducted output power

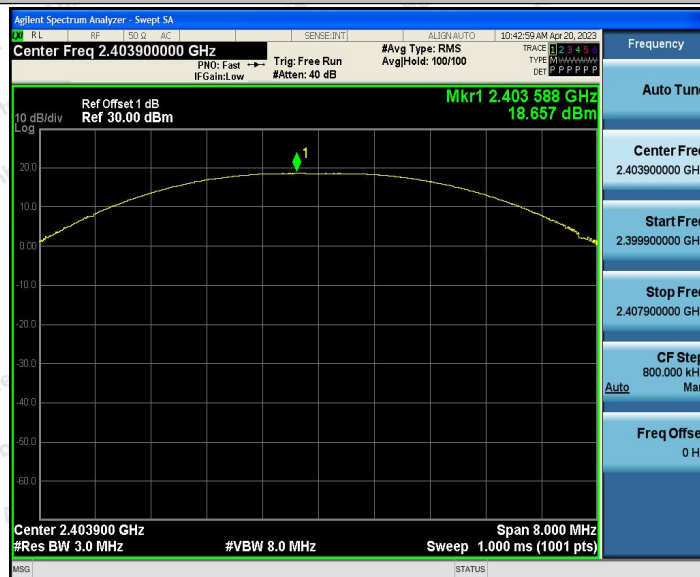
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2403.9	18.66	≤30	PASS
		2440.9	17.60	≤30	PASS
		2479.9	17.94	≤30	PASS

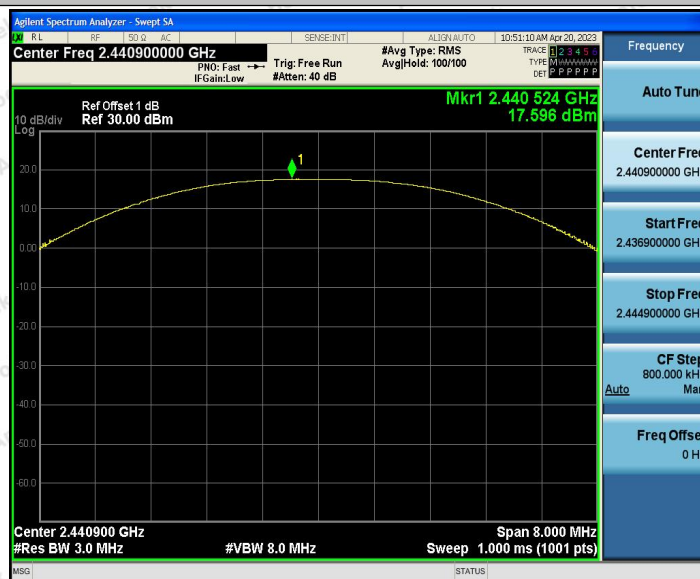


Test Graphs

2.4G_Ant1_2403.9



2.4G_Ant1_2440.9



2.4G_Ant1_2479.9

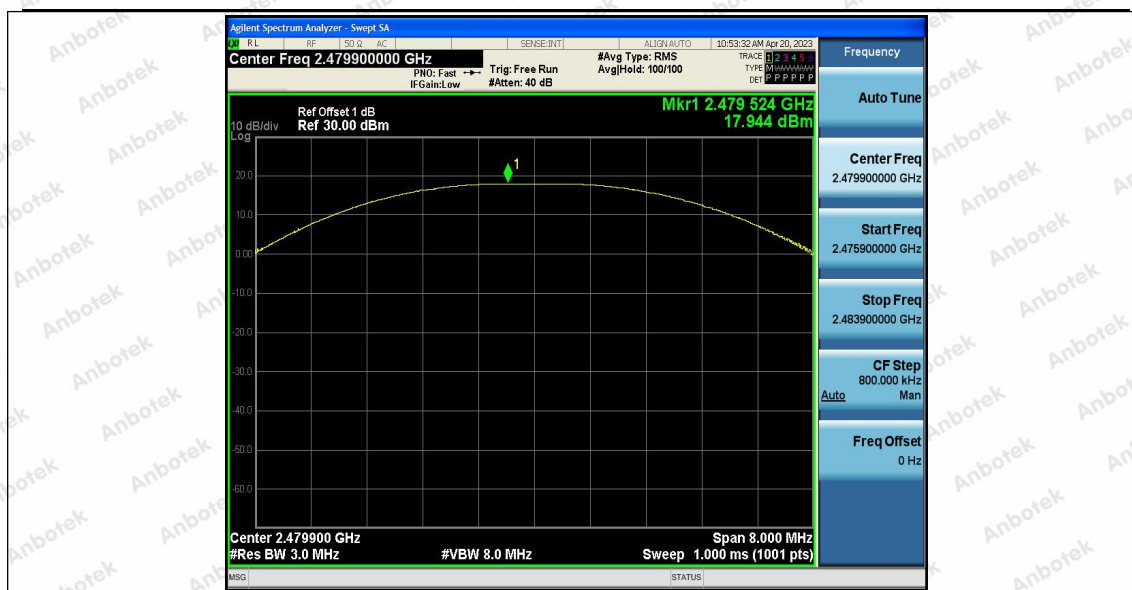
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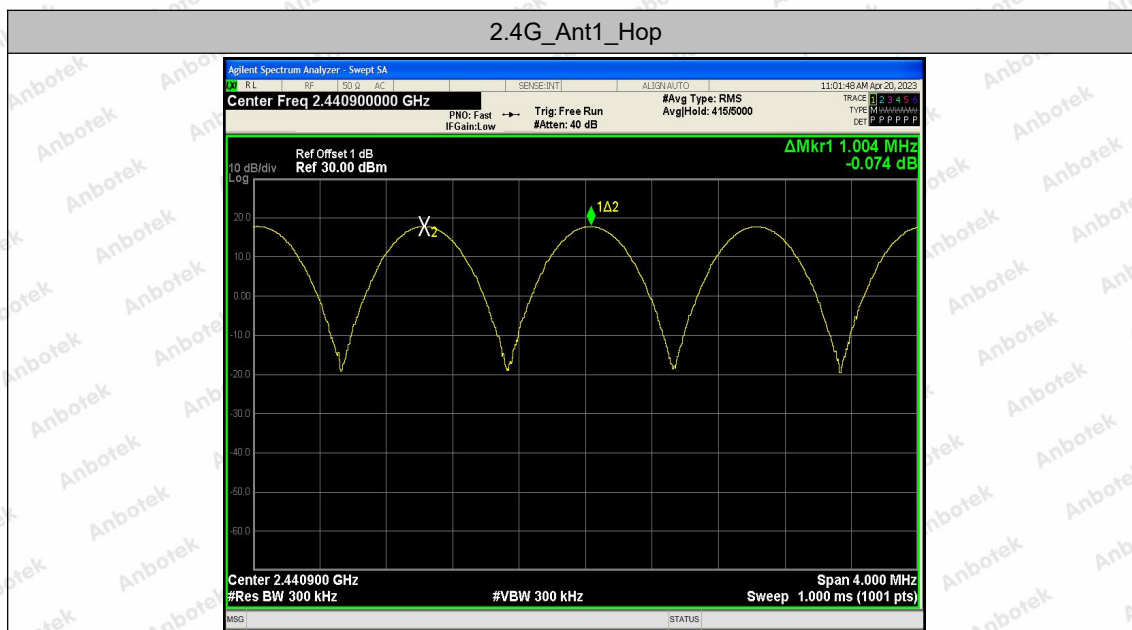


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.004	≥0.996	PASS

Test Graphs



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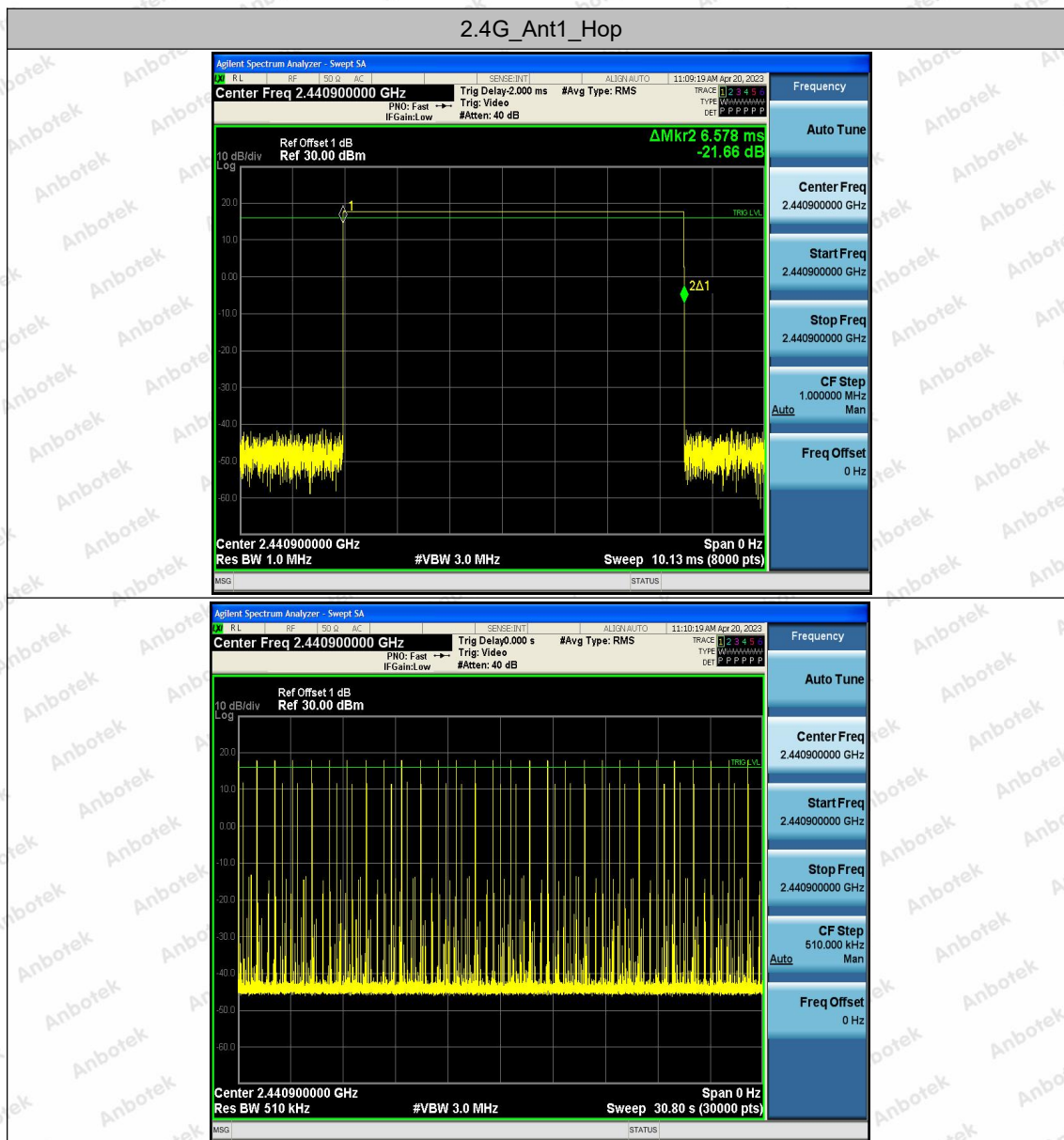


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	6.578	30	0.199	≤0.4	PASS

Test Graphs

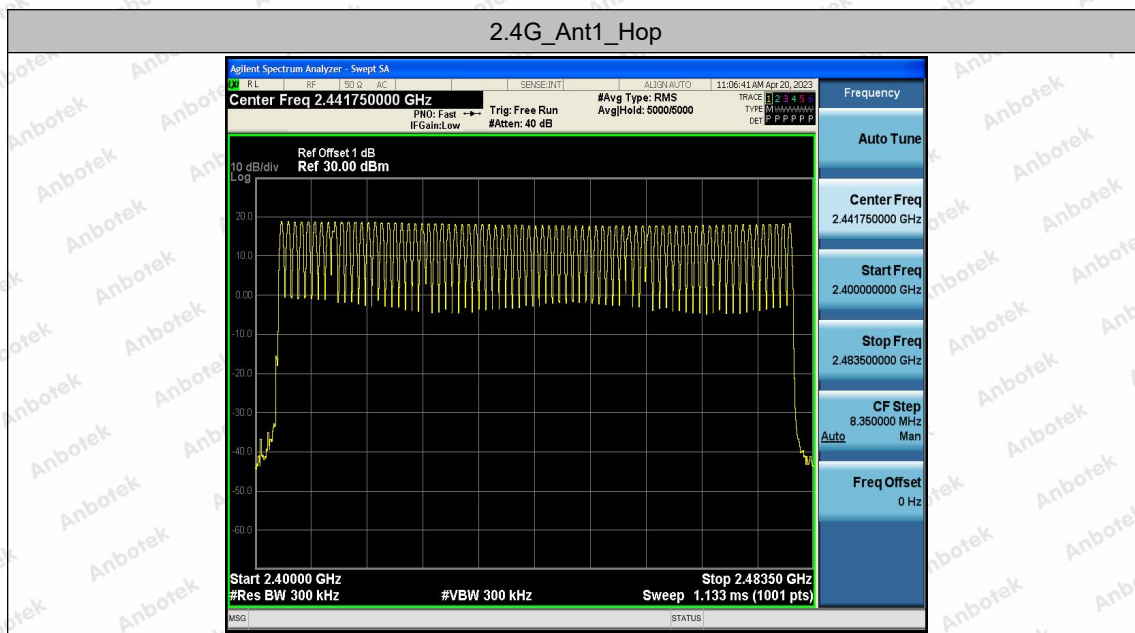


Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	77	≥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	2403.9	18.67	-39.21	≤ -1.33	PASS
		High	2479.9	18.25	-37.33	≤ -1.75	PASS
		Low	hop_2403.9	18.57	-49.84	≤ -1.43	PASS
		High	hop_2479.9	18.12	-45.55	≤ -1.88	PASS



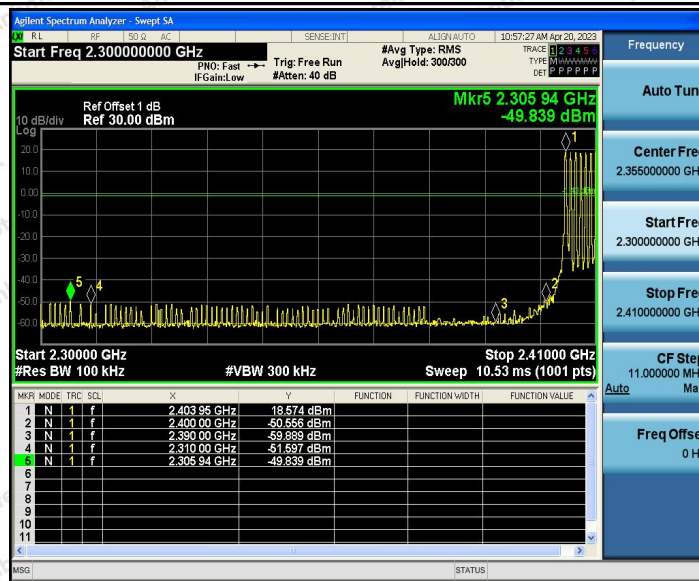


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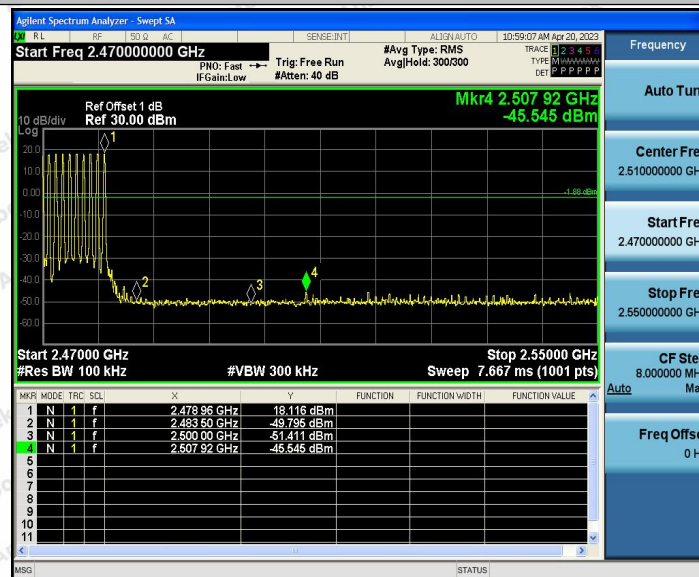


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2.4G_Ant1_High_hop_2479.9



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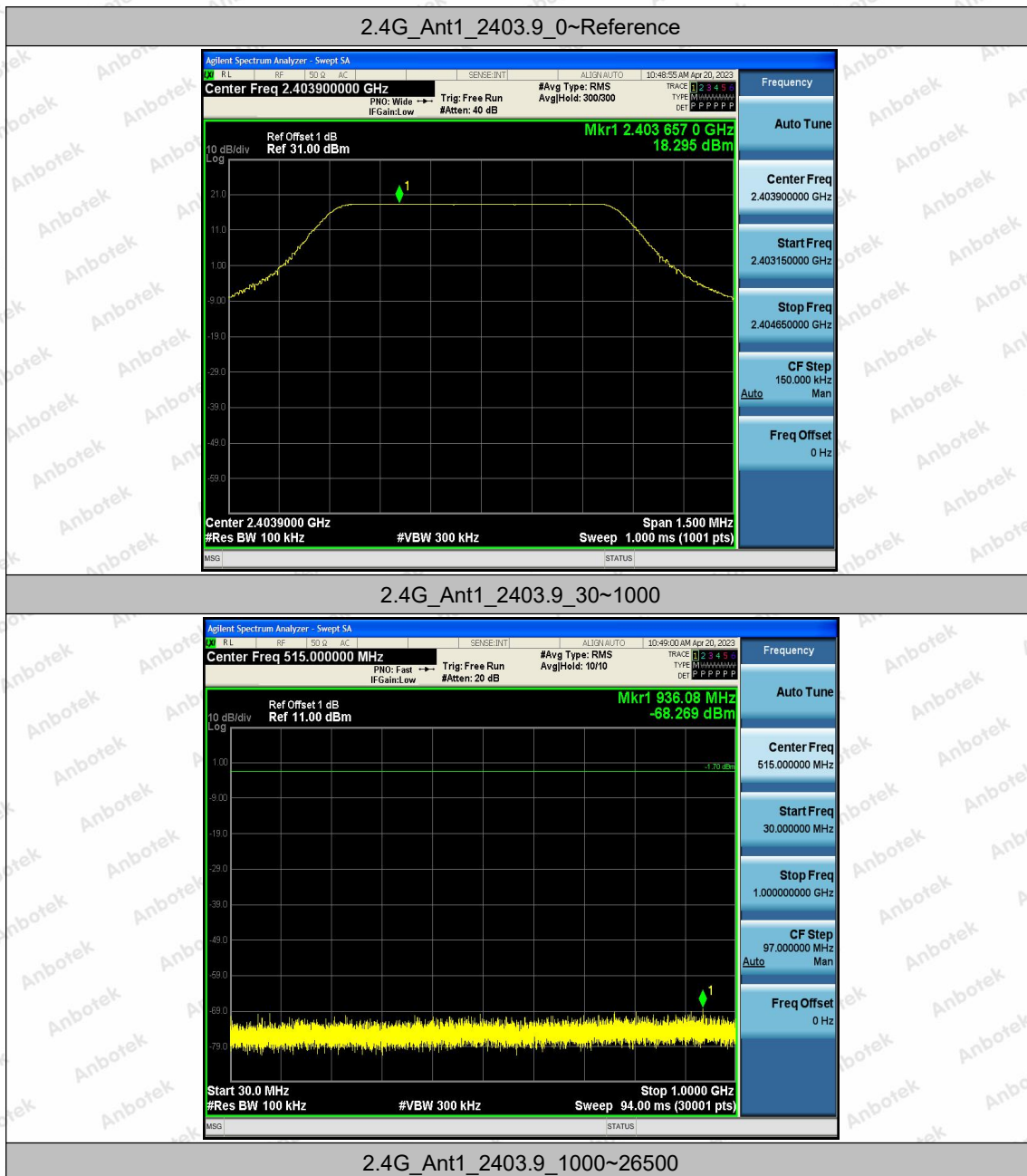
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403.9	Reference	18.30	18.30	---	PASS
			30~1000	18.30	-68.27	≤-1.7	PASS
			1000~26500	18.30	-36.24	≤-1.7	PASS
		2440.9	Reference	17.39	17.39	---	PASS
			30~1000	17.39	-68.77	≤-2.61	PASS
			1000~26500	17.39	-36.35	≤-2.61	PASS
		2479.9	Reference	17.90	17.90	---	PASS
			30~1000	17.90	-68.58	≤-2.1	PASS
			1000~26500	17.90	-35.05	≤-2.1	PASS



Test Graphs



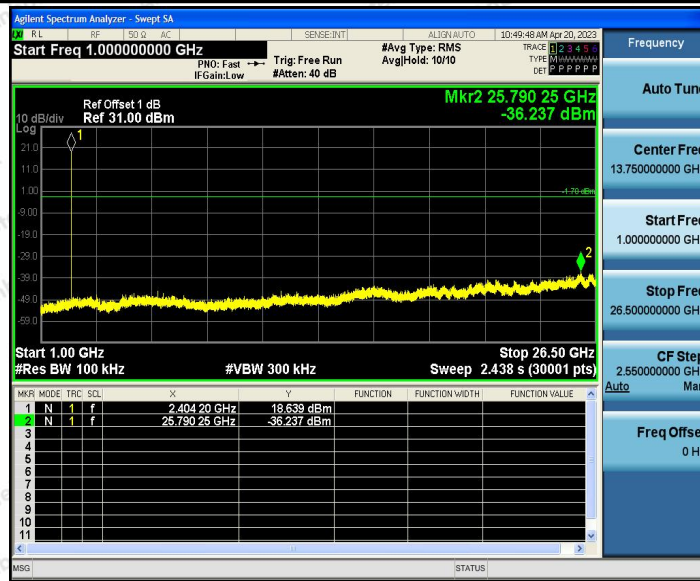
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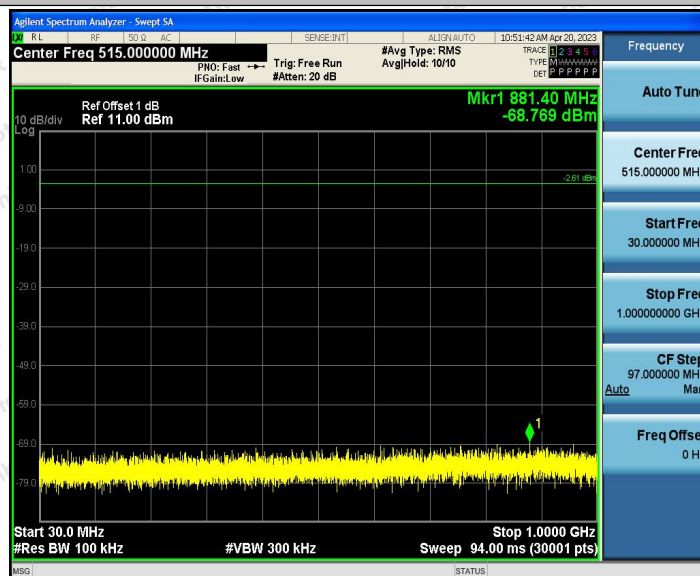




2.4G_Ant1_2440.9_0~Reference



2.4G_Ant1_2440.9_30~1000



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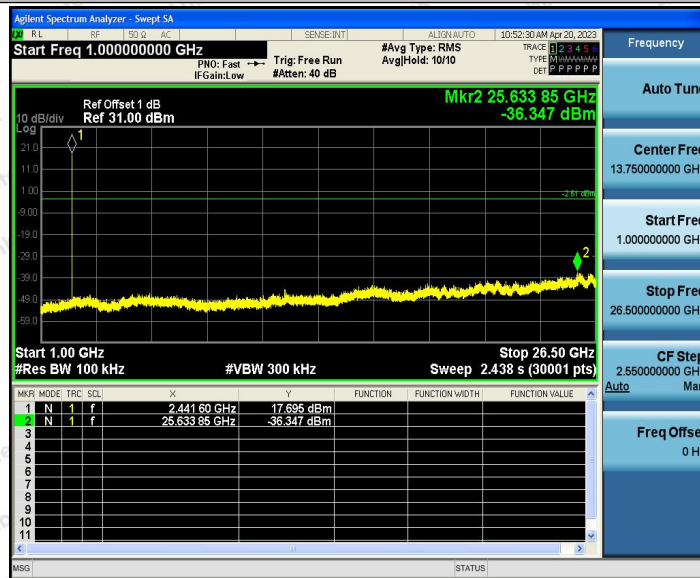
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2.4G_Ant1_2440.9_1000~26500



2.4G_Ant1_2479.9_0~Reference



2.4G_Ant1_2479.9_30~1000

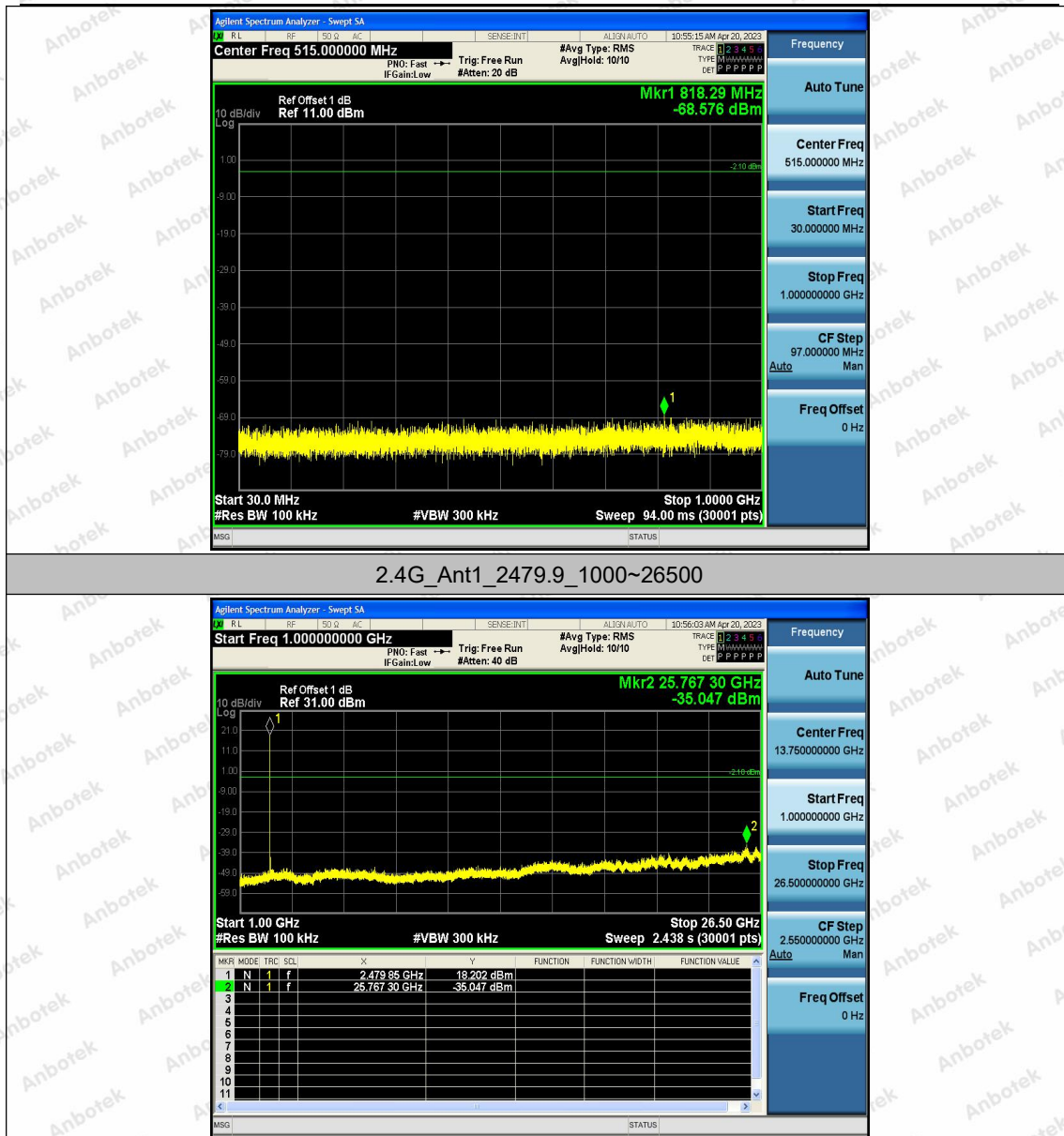
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Appendix I: Duty Cycle

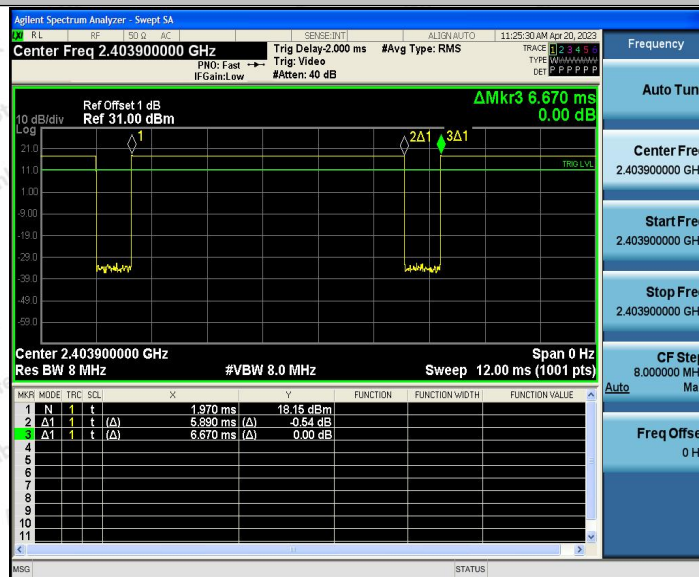
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403.9	5.89	6.67	88.31	0.54
		2440.9	5.89	6.66	88.44	0.53
		2479.9	5.89	6.66	88.44	0.53

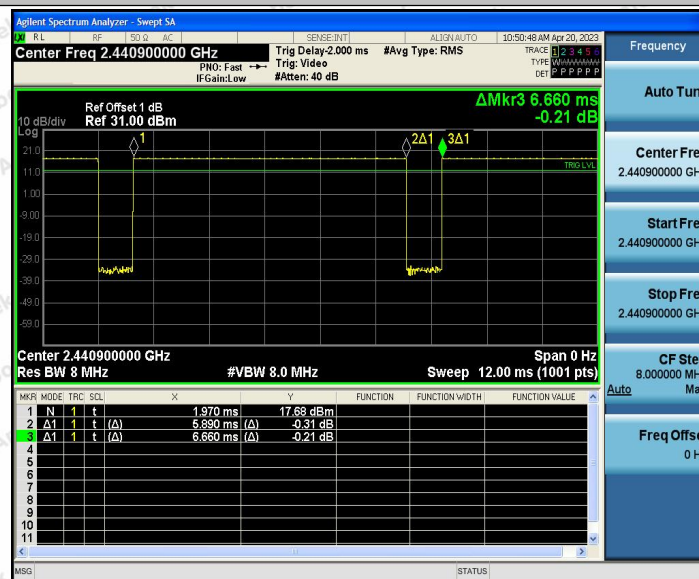


Test Graphs

2.4G_Ant1_2403.9



2.4G_Ant1_2440.9



2.4G_Ant1_2479.9

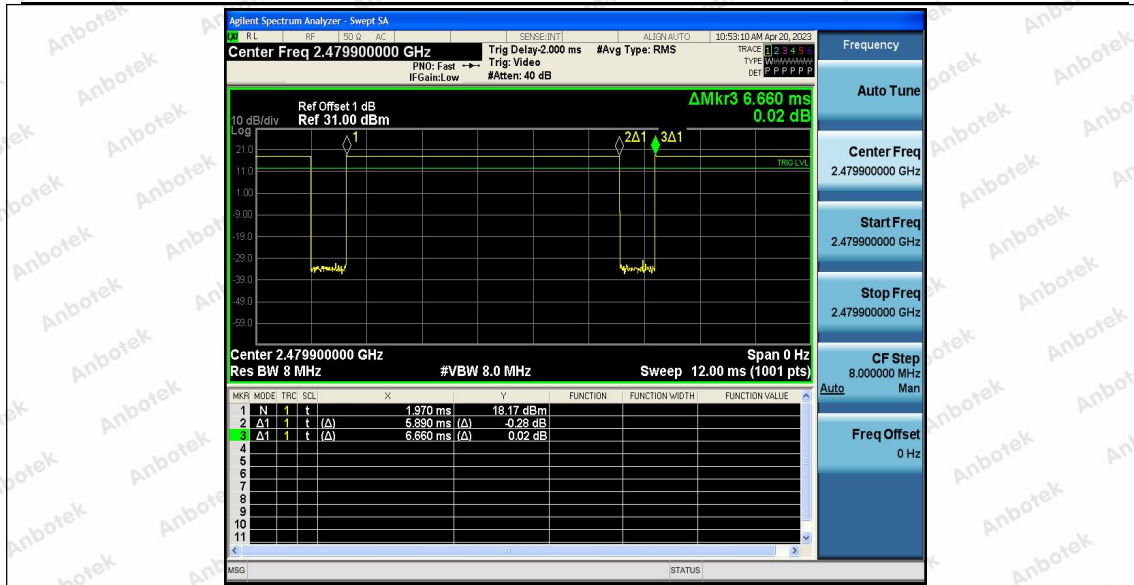
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