

Appendix Test Data

Report No.:	18220WC30162802	Test Sample No.:	1-2-2
Start Test Date:	2023.08.03	Finish Test Date:	2023.08.08
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.4°C	Relative Humidity:	48%
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	0.897	2402.442	2403.339	---	---
		2441	1.038	2440.442	2441.480	---	---
		2480	1.038	2479.433	2480.471	---	---

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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	0.99643	2402.4581	2403.4545	---	---
		2441	1.0010	2440.4554	2441.4564	---	---
		2480	1.0147	2479.4483	2480.4630	---	---

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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	0.39	≤30	PASS
		2441	0.50	≤30	PASS
		2480	-0.51	≤30	PASS

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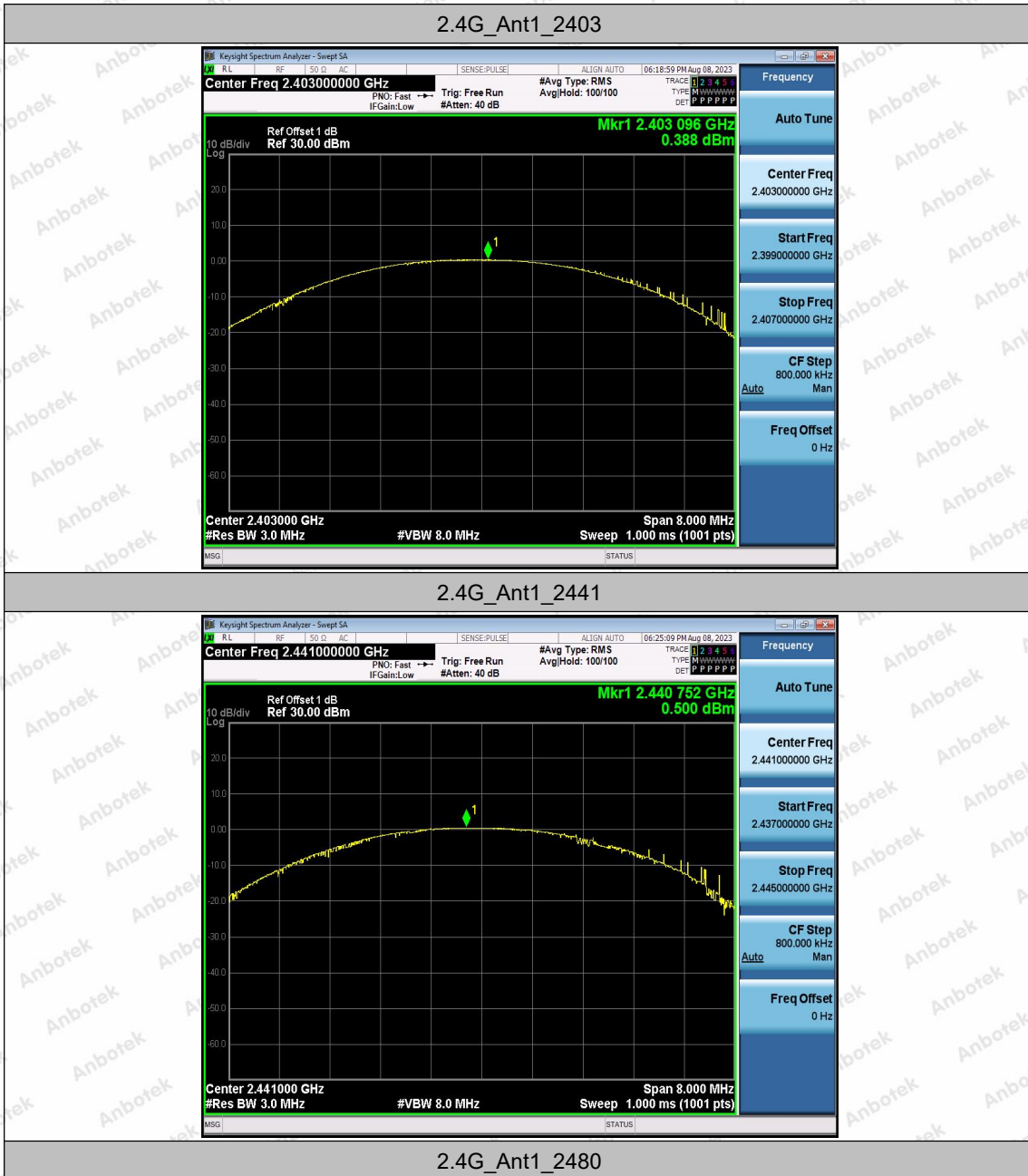
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Test Graphs



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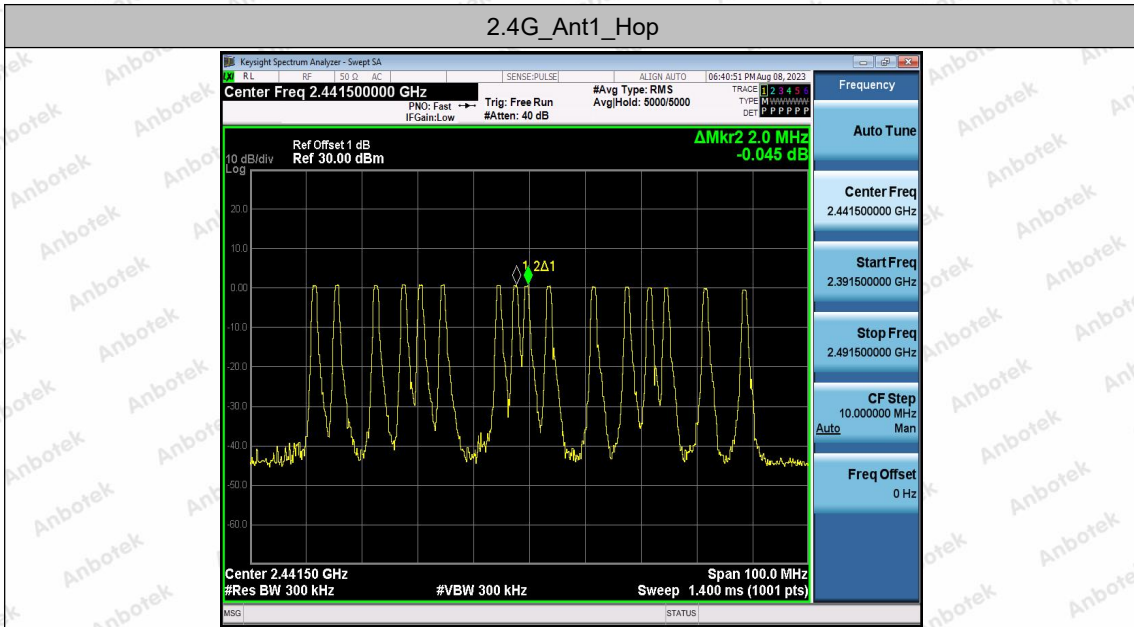
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.000	≥0.897	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	0.194	54	0.01	≤0.4	PASS

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Test Graphs



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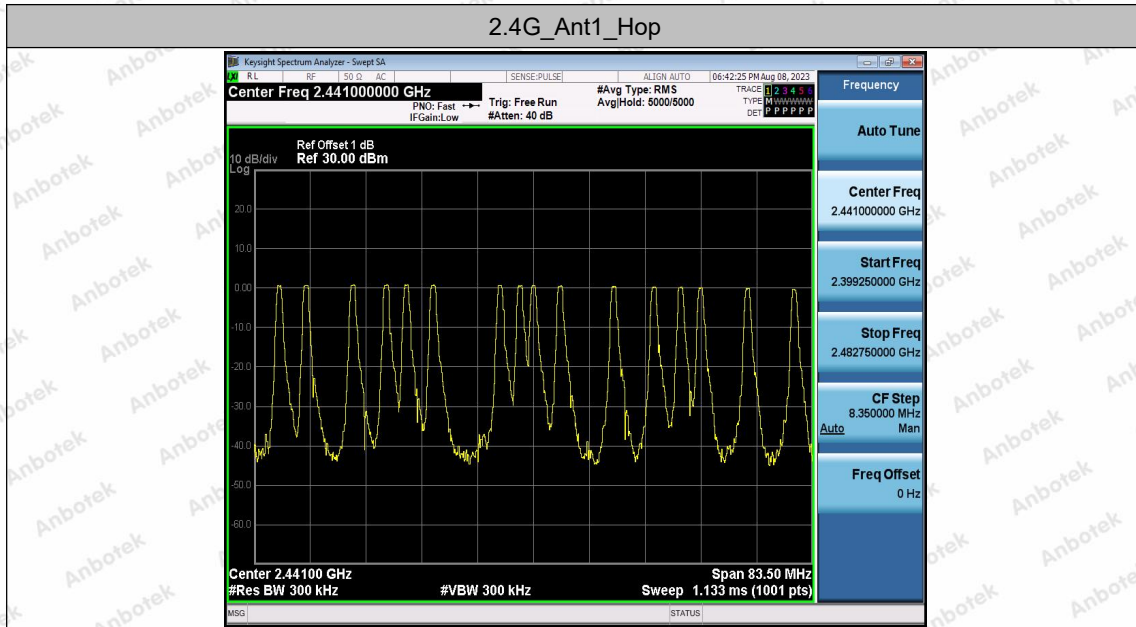
Appendix F: Number of hopping channels

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	0.34	-42.54	≤-19.66	PASS
		High	2480	-0.80	-46.51	≤-20.8	PASS
		Low	Hop_2403	0.61	-42.43	≤-19.39	PASS
		High	Hop_2480	-0.41	-37.65	≤-20.41	PASS

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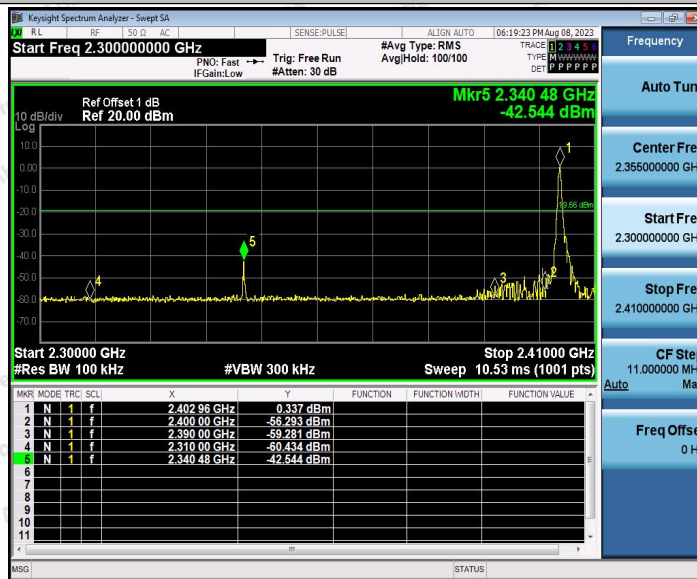


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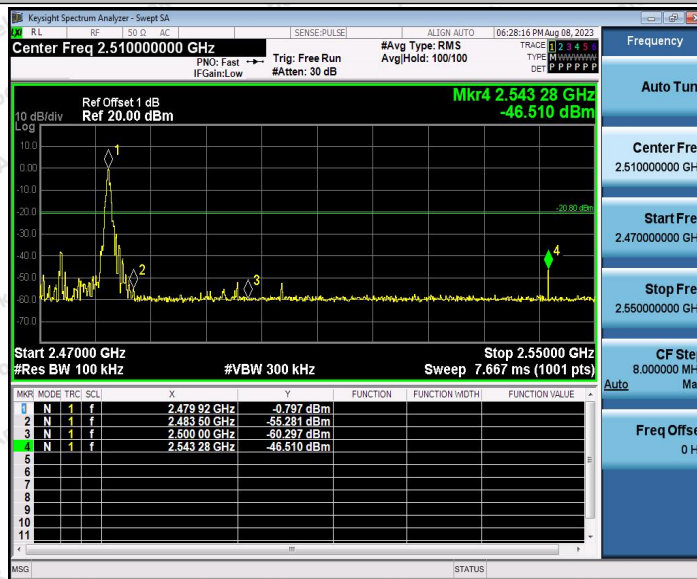


Test Graphs

2.4G_Ant1_Low_2403



2.4G_Ant1_High_2480



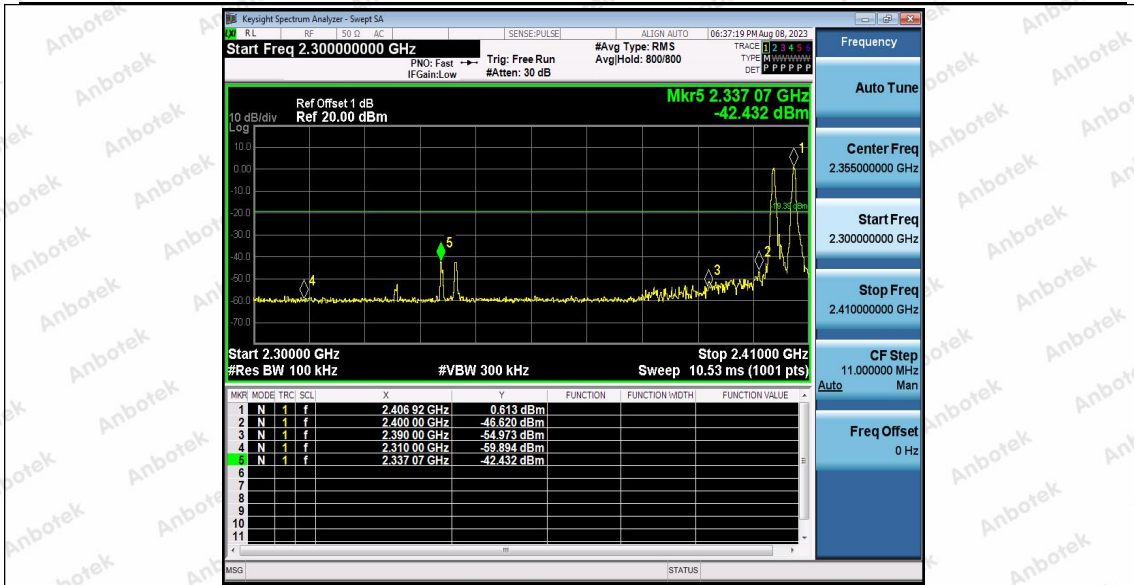
2.4G_Ant1_Low_Hop_2403

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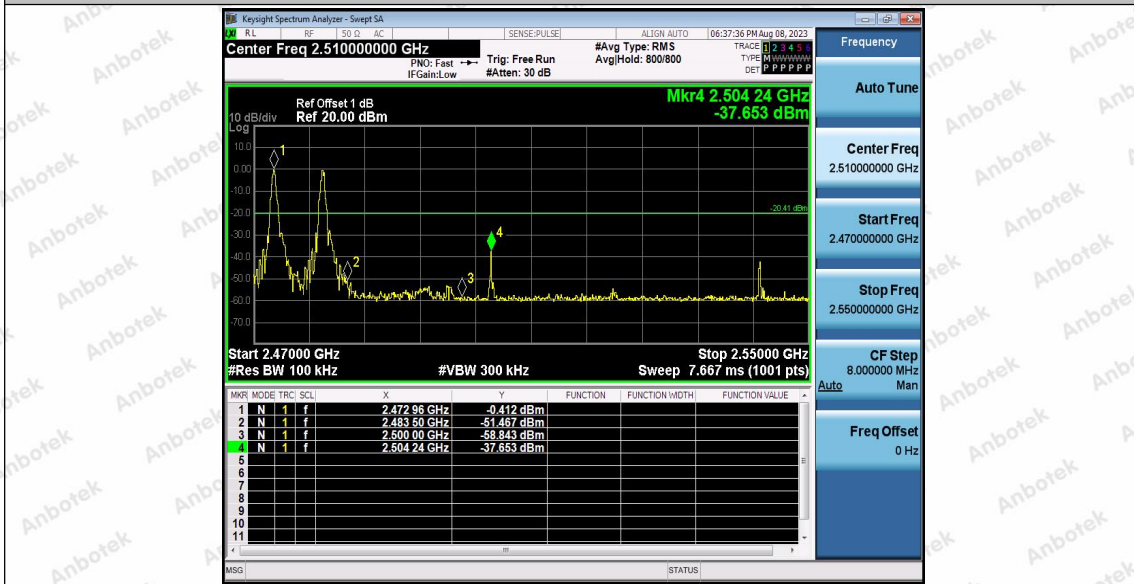
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2.4G_Ant1_High_Hop_2480



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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	0.22	0.22	---	PASS
			30~1000	0.22	-68.75	≤-19.78	PASS
			1000~26500	0.22	-38.36	≤-19.78	PASS
		2441	Reference	0.35	0.35	---	PASS
			30~1000	0.35	-69.41	≤-19.65	PASS
			1000~26500	0.35	-53.58	≤-19.65	PASS
		2480	Reference	-0.65	-0.65	---	PASS
			30~1000	-0.65	-69.46	≤-20.65	PASS
			1000~26500	-0.65	-37.83	≤-20.65	PASS

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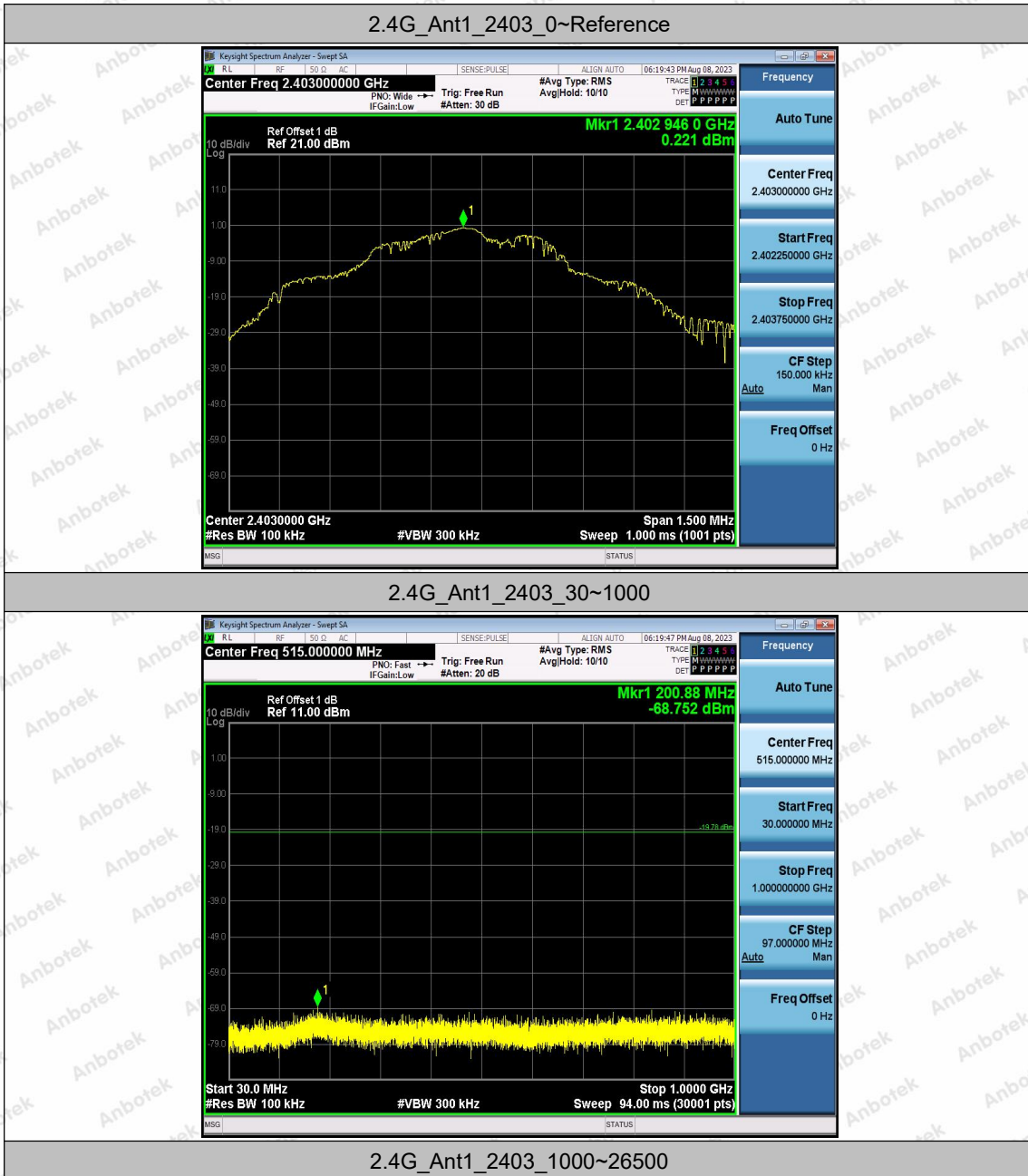
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Test Graphs

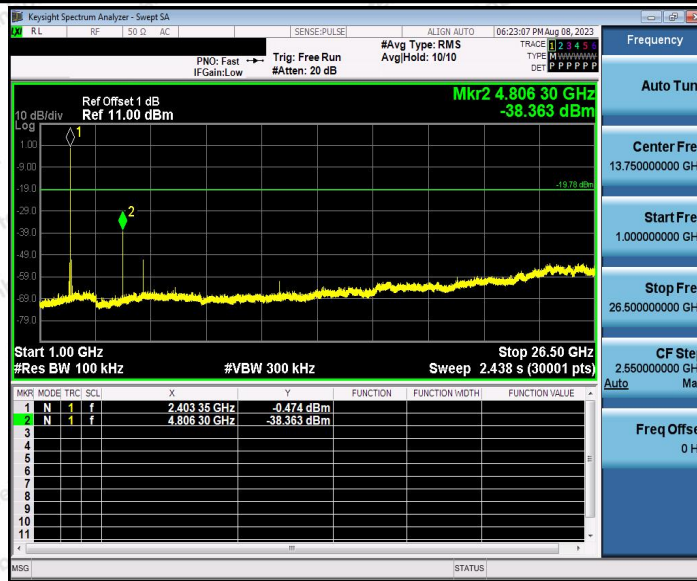


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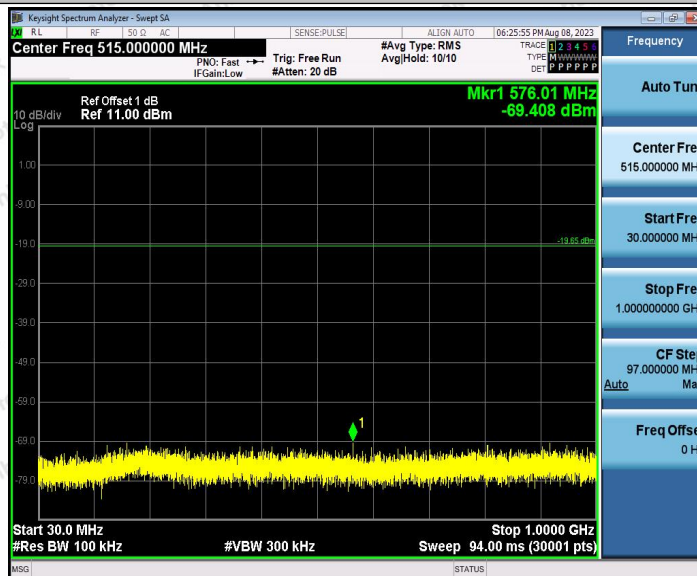




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



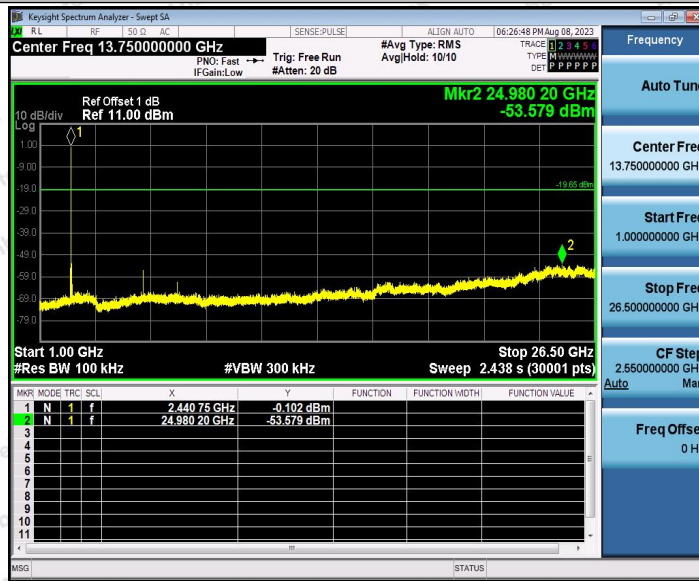
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2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2480_0~Reference



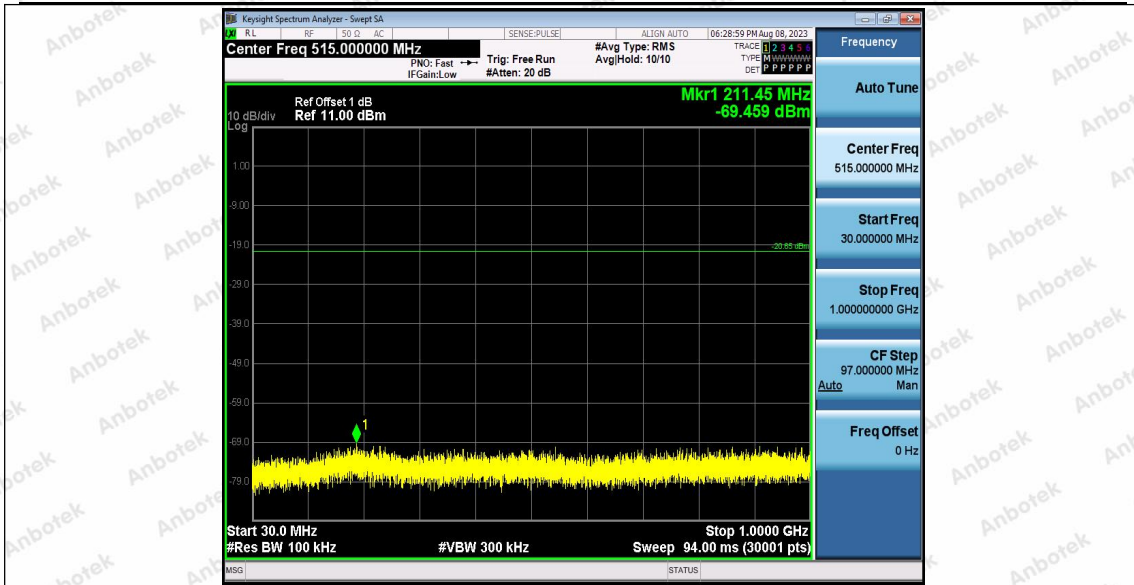
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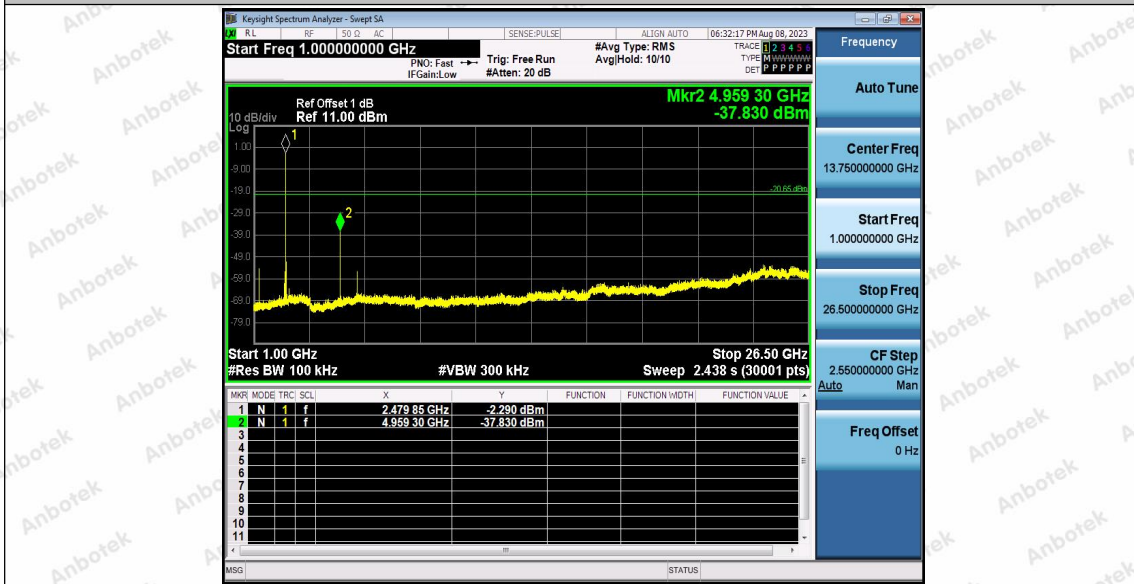
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2.4G_Ant1_2480_1000~26500



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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	8.75	1.37	18.63
		2441	0.12	8.75	1.37	18.63
		2480	0.13	8.76	1.48	18.30

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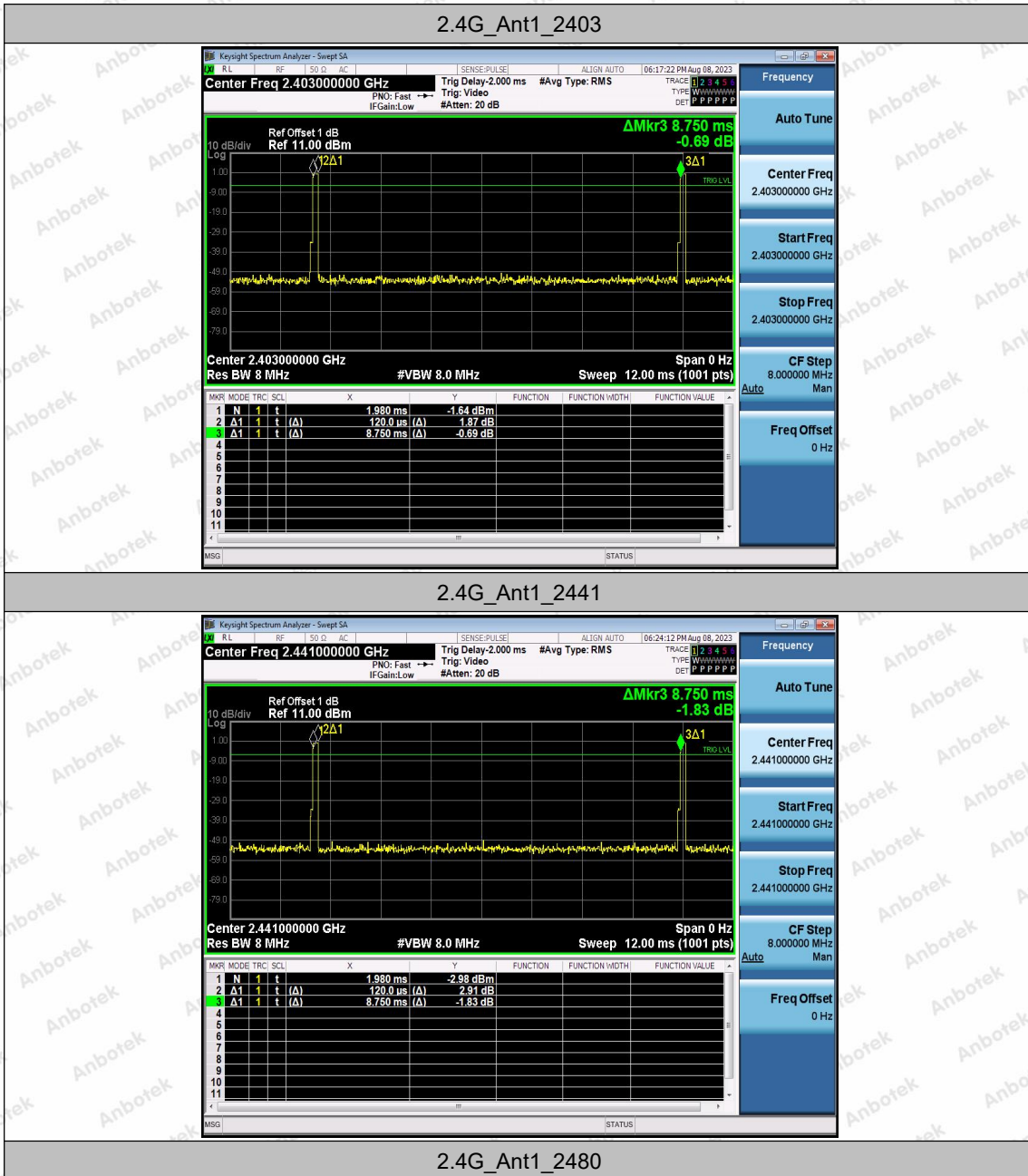
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Test Graphs

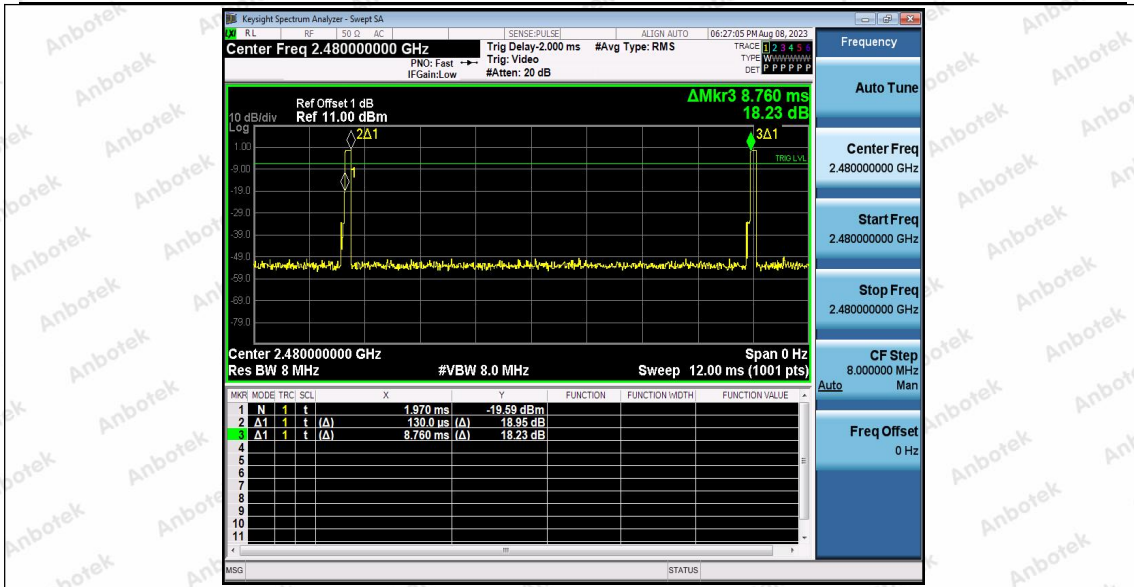


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