

Appendix Test Data

Report No.:	18220WC30184201	Test Sample No.:	1-2-2
Start Test Date:	2023.10.17	Finish Test Date:	2023.11.21
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.5°C	Relative Humidity:	43%
Pressure:	101kPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403.5	1.563	2402.660	2404.223	---	---
		2438	1.056	2437.460	2438.516	---	---
		2473	1.056	2472.454	2473.510	---	---

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Test Graphs

2.4G_Ant1_2403.5



2.4G_Ant1_2438



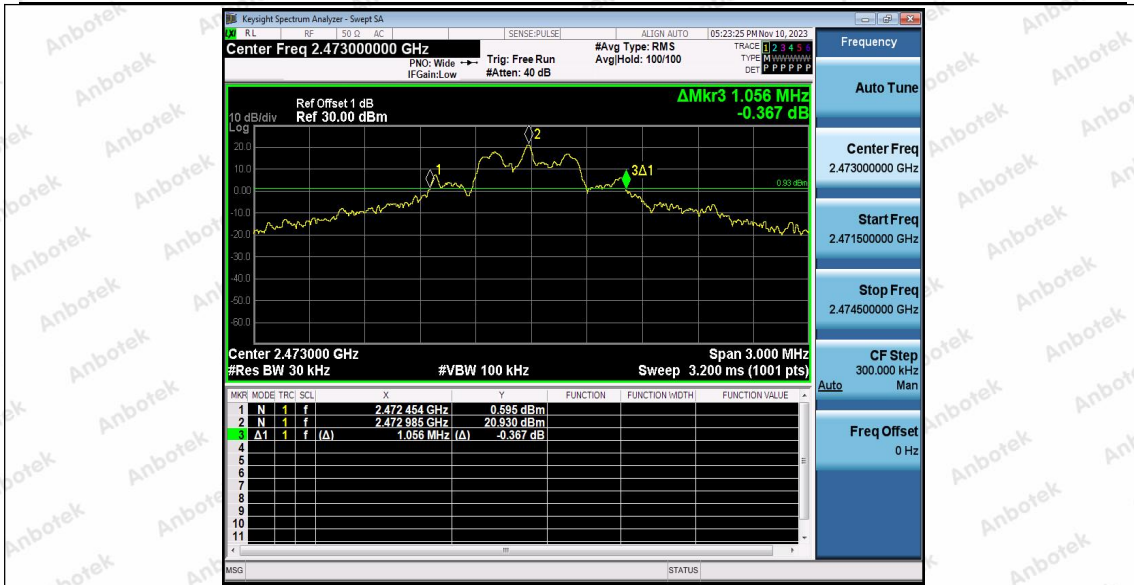
2.4G_Ant1_2473

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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	2403.5	1.9405	2402.4998	2404.4403	---	---
		2438	1.6586	2437.1575	2438.8161	---	---
		2473	1.1619	2472.4023	2473.5642	---	---

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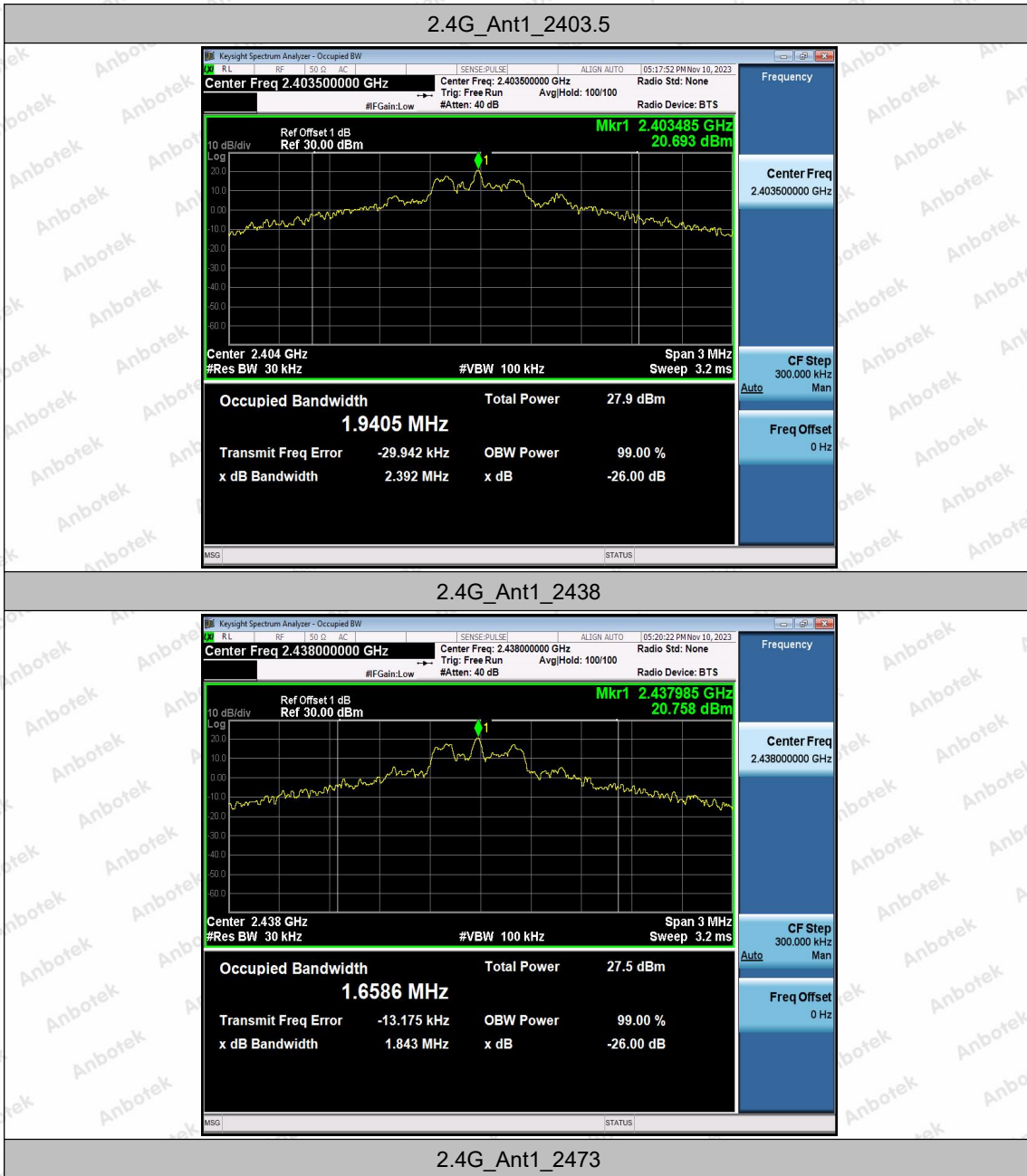
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Test Graphs



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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	2403.5	20.57	≤20.97	PASS
		2438	20.30	≤20.97	PASS
		2473	20.23	≤20.97	PASS



Test Graphs

2.4G_Ant1_2403.5



2.4G_Ant1_2438



2.4G_Ant1_2473

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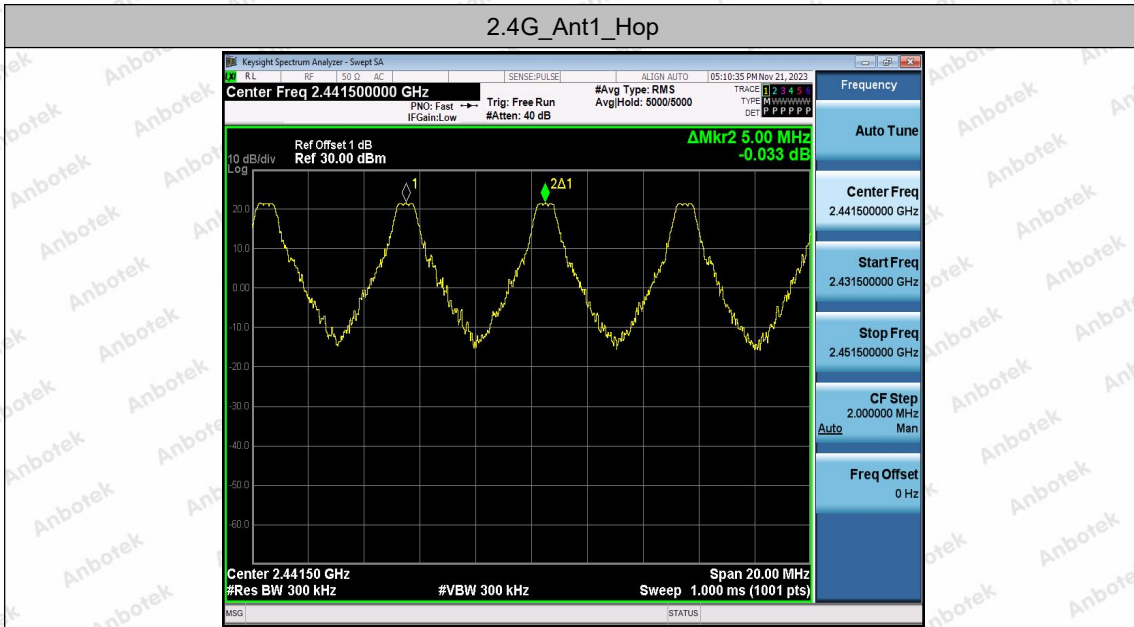
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	5.000	≥1.563	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	0.559	265	0.148	≤0.4	PASS

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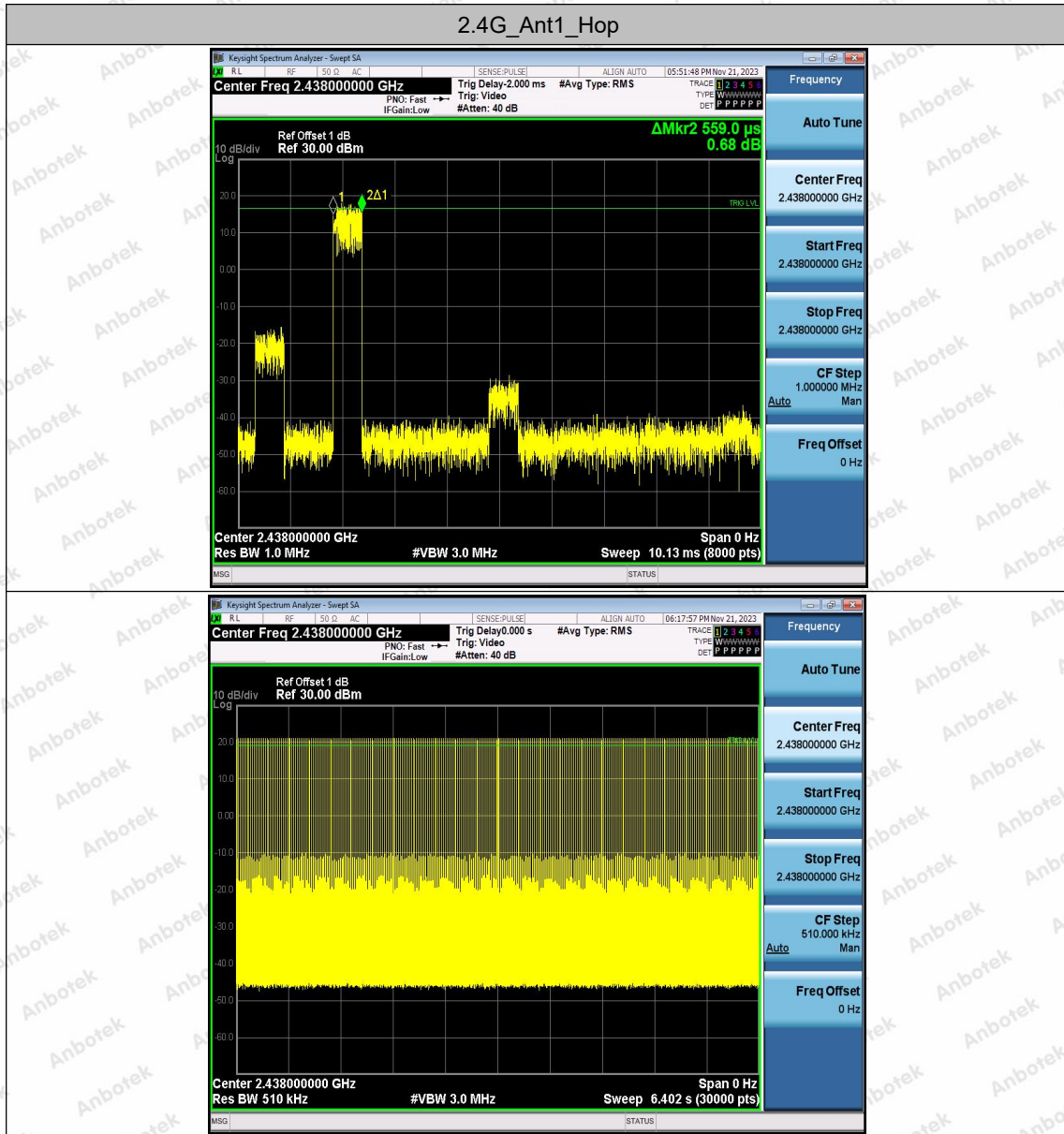
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Test Graphs



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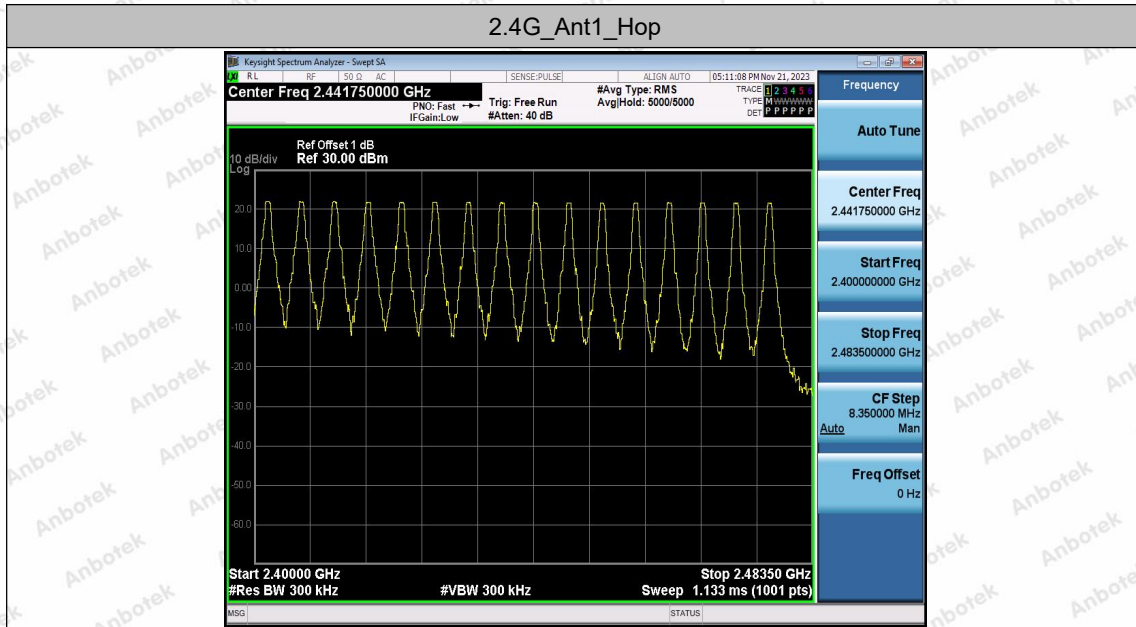
Appendix F: Number of hopping channels

Test Result

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



Test Graphs



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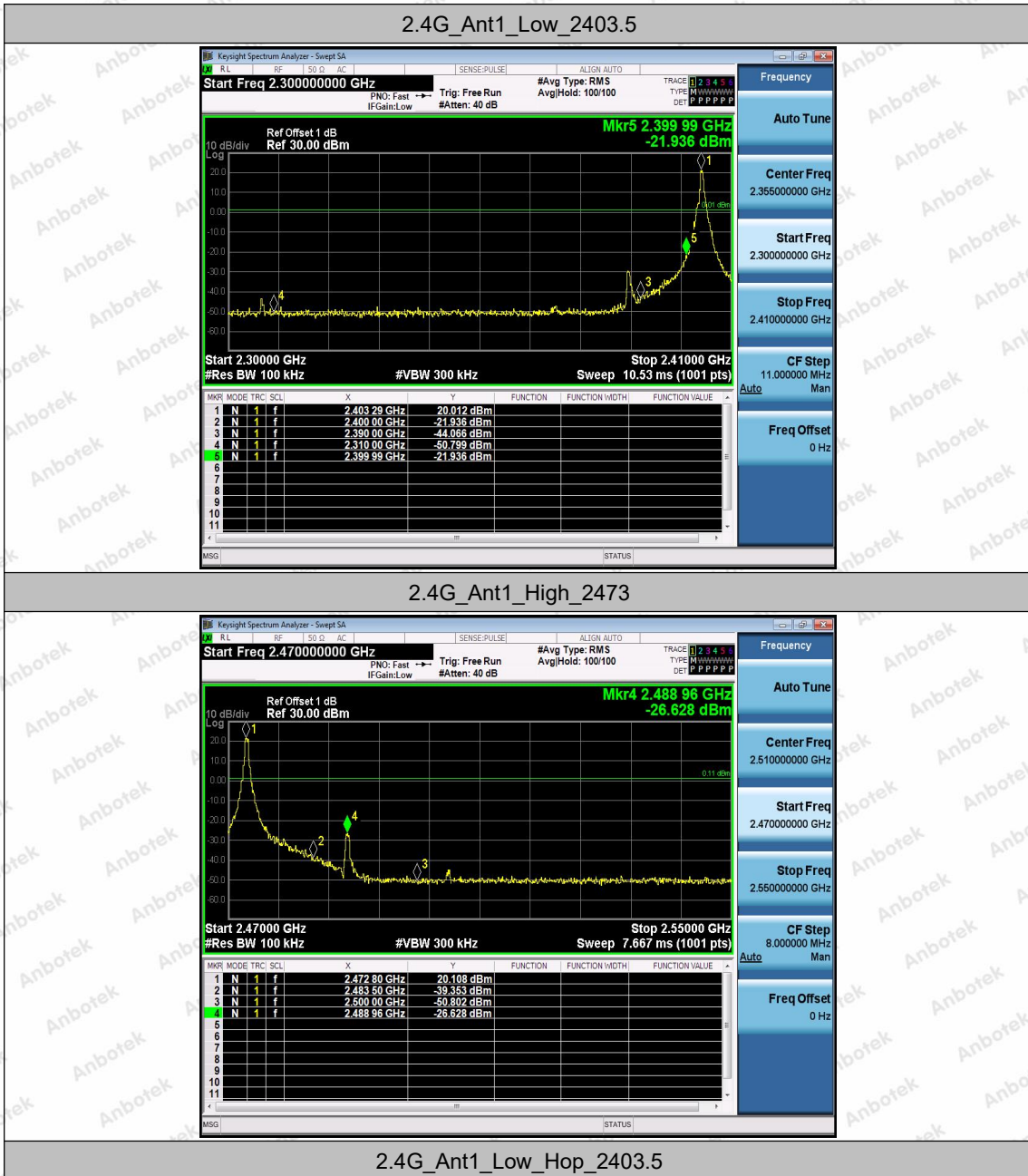
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403.5	20.01	-21.94	≤0.01	PASS
		High	2473	20.11	-26.63	≤0.11	PASS
		Low	Hop_2403.5	20.56	-29.99	≤0.56	PASS
		High	Hop_2473	20.46	-42.68	≤0.46	PASS



Test Graphs

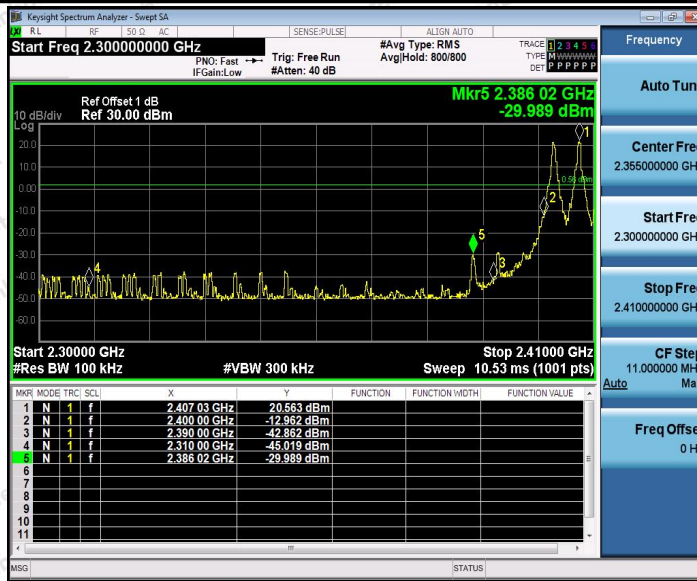


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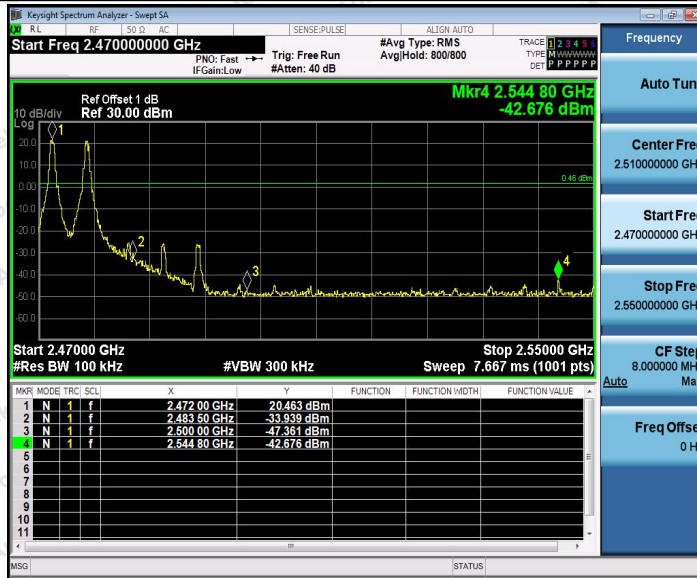
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2.4G_Ant1_High_Hop_2473



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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	2403.5	Reference	20.15	20.15	---	PASS
			30~1000	20.15	-68.16	≤0.15	PASS
			1000~26500	20.15	-27.17	≤0.15	PASS
		2438	Reference	20.05	20.05	---	PASS
			30~1000	20.05	-68.06	≤0.05	PASS
			1000~26500	20.05	-29.08	≤0.05	PASS
		2473	Reference	20.04	20.04	---	PASS
			30~1000	20.04	-68.05	≤0.04	PASS
			1000~26500	20.04	-33.94	≤0.04	PASS

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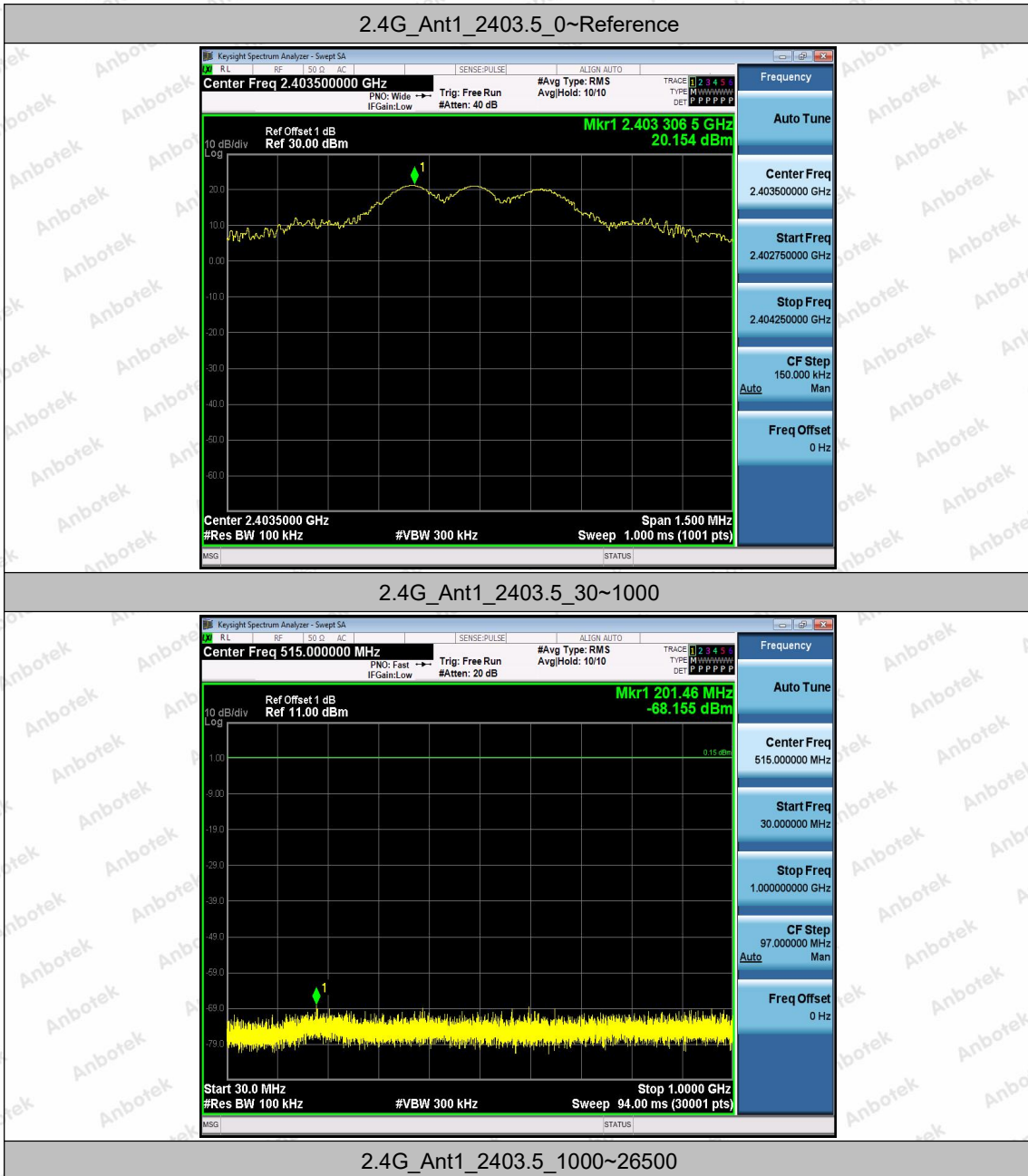
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Test Graphs

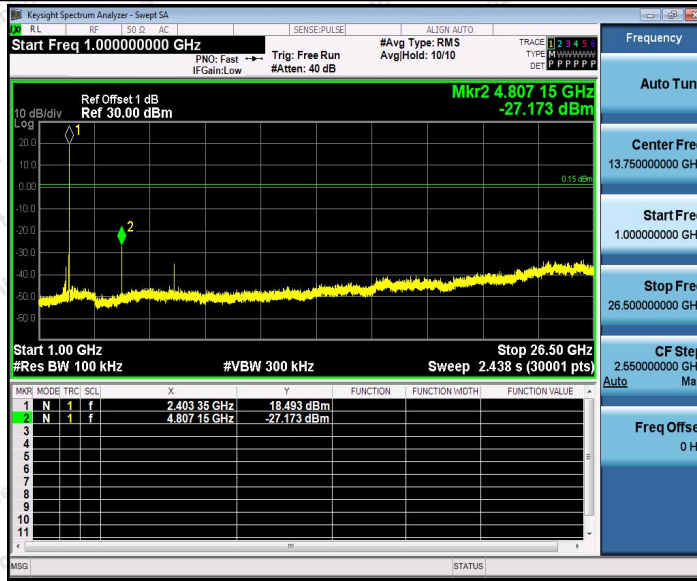


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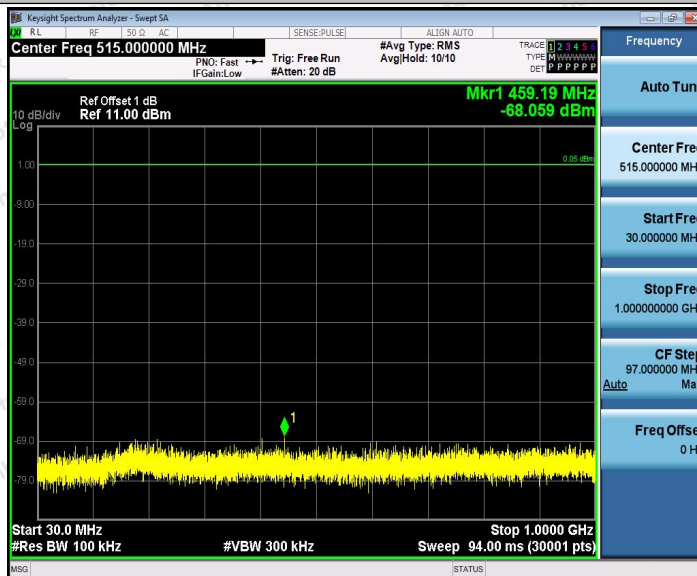




2.4G_Ant1_2438_0~Reference



2.4G_Ant1_2438_30~1000

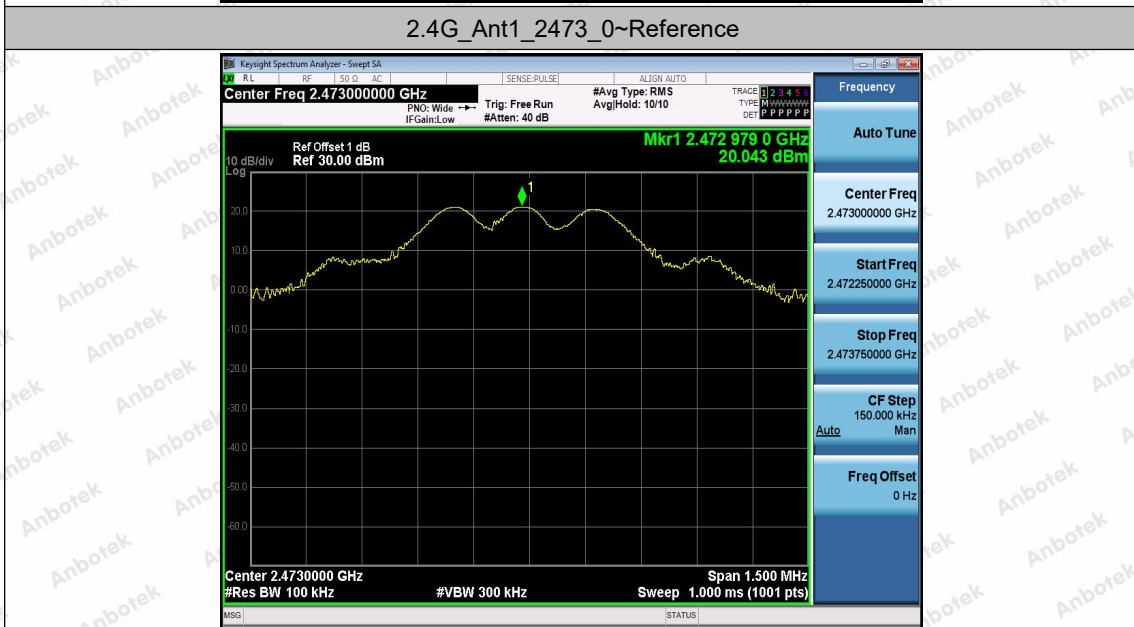
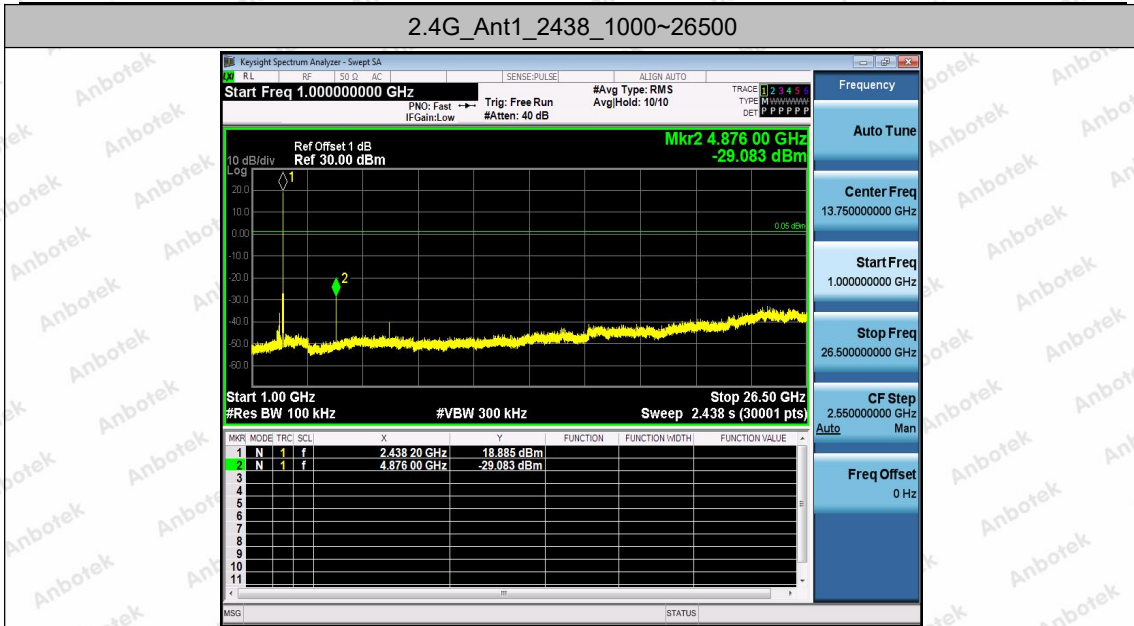


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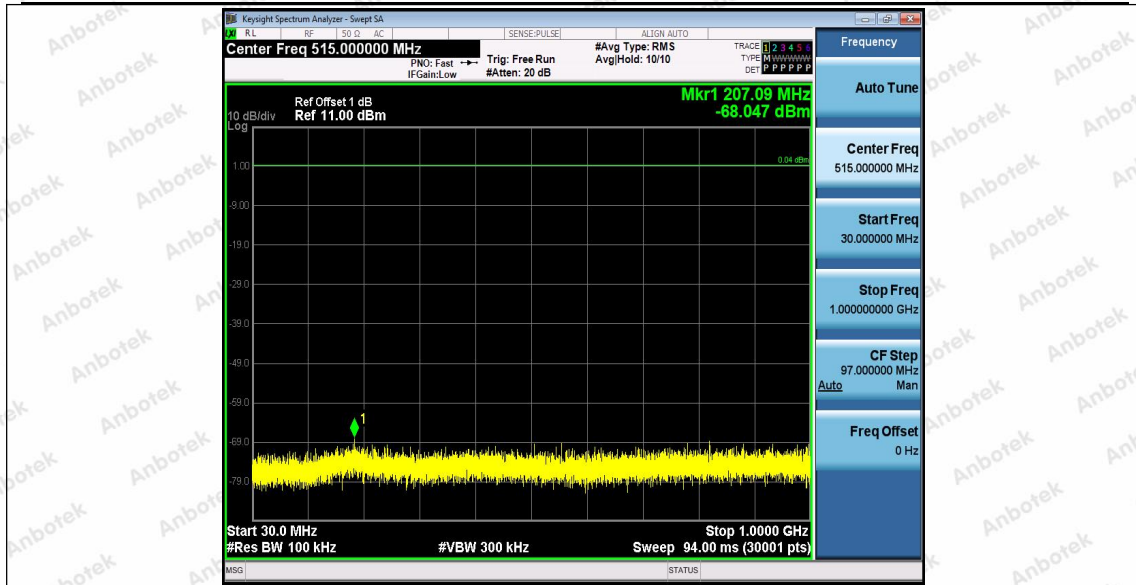
2.4G_Ant1_2473_30~1000

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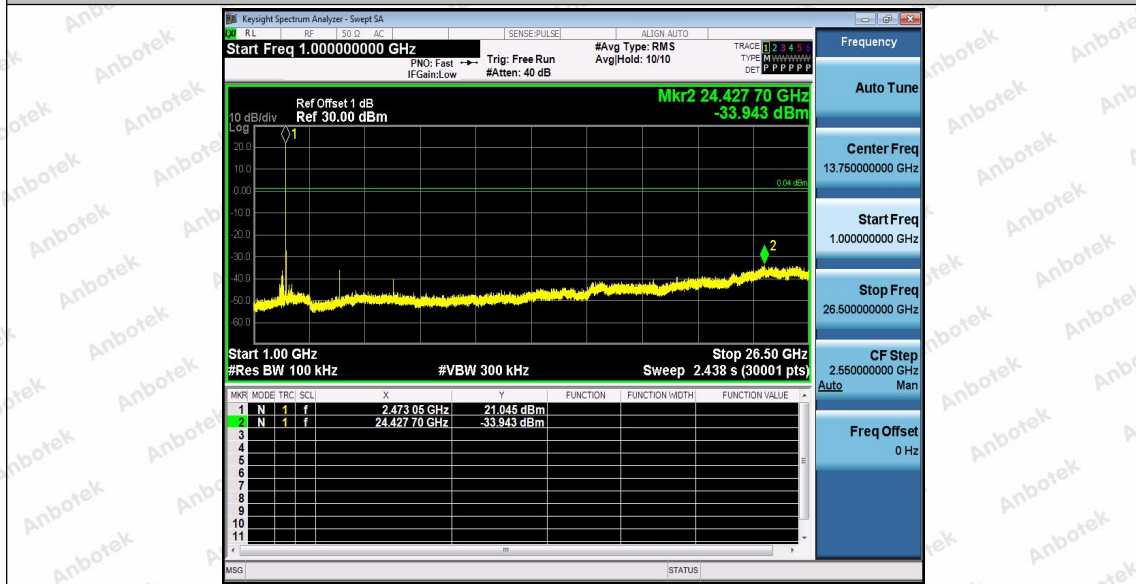
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2.4G_Ant1_2473_1000~26500



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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	2403.5	0.56	1.51	37.09	4.31
		2438	0.56	1.51	37.09	4.31
		2473	0.56	1.51	37.09	4.31

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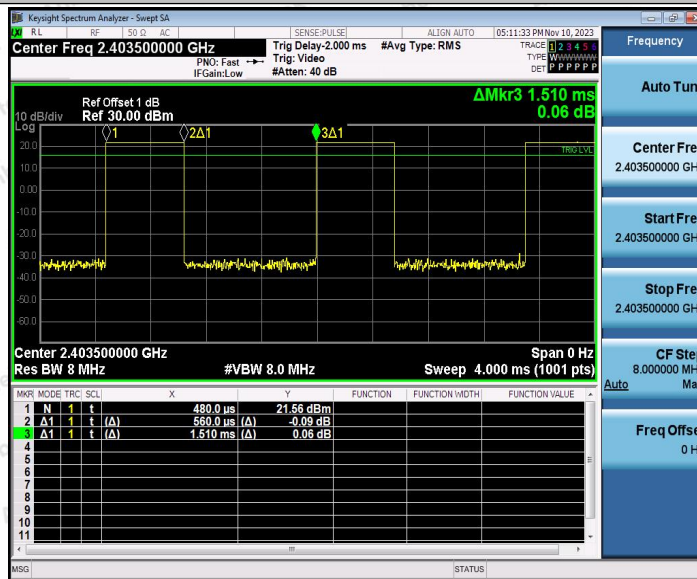


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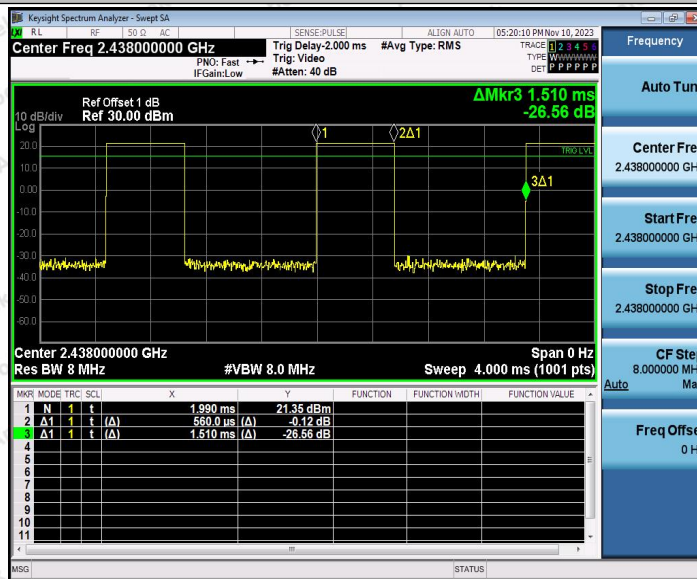


Test Graphs

2.4G_Ant1_2403.5



2.4G_Ant1_2438



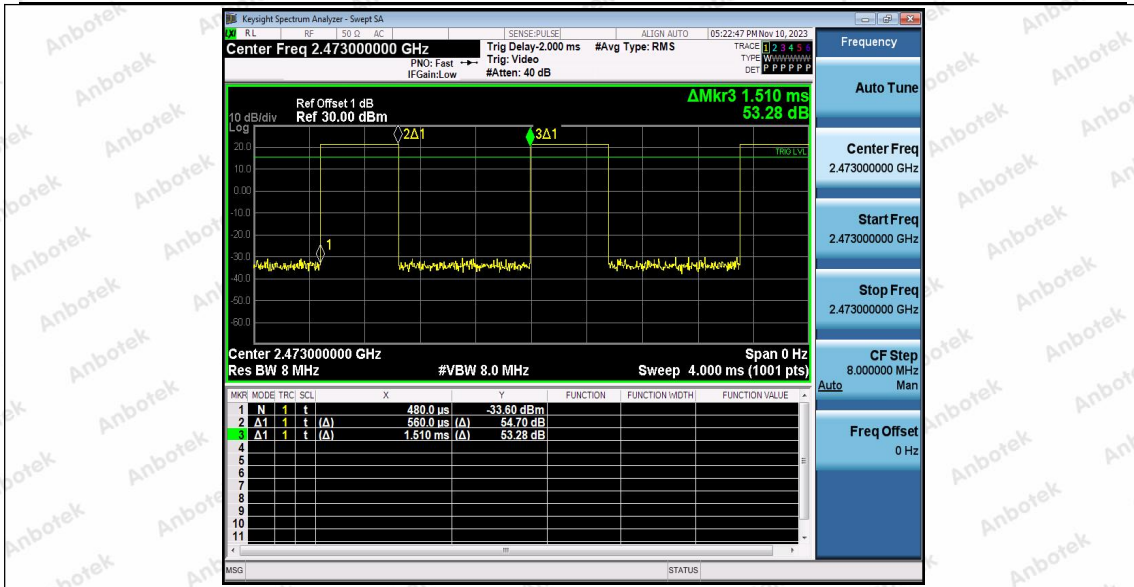
2.4G_Ant1_2473

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