

Appendix Test Data

Report No.:	18220WC30085401	Test Sample No.:	1-2-2
Start Test Date:	2023.05.11	Finish Test Date:	2023.05.12
Test Engineer:	Rock Luo	Auditor:	Edward Pan
Temperature:	25.4℃	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	2403.65	2.352	2402.690	2405.042	---	---
		2441.65	2.032	2440.754	2442.786	---	---
		2479.65	1.944	2478.770	2480.714	---	---



Test Graphs

2.4G_Ant1_2403.65



2.4G_Ant1_2441.65



2.4G_Ant1_2479.65

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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	2403.65	2.4346	2402.6450	2405.0796	---	---
		2441.65	2.1312	2440.6573	2442.7885	---	---
		2479.65	2.1887	2478.6157	2480.8044	---	---

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Test Graphs

2.4G_Ant1_2403.65



2.4G_Ant1_2441.65



2.4G_Ant1_2479.65

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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	2403.65	-8.08	≤30	PASS
		2441.65	-8.42	≤30	PASS
		2479.65	-8.83	≤30	PASS



Test Graphs

2.4G_Ant1_2403.65



2.4G_Ant1_2441.65



2.4G_Ant1_2479.65

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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	≥ 1.568	PASS



Test Graphs



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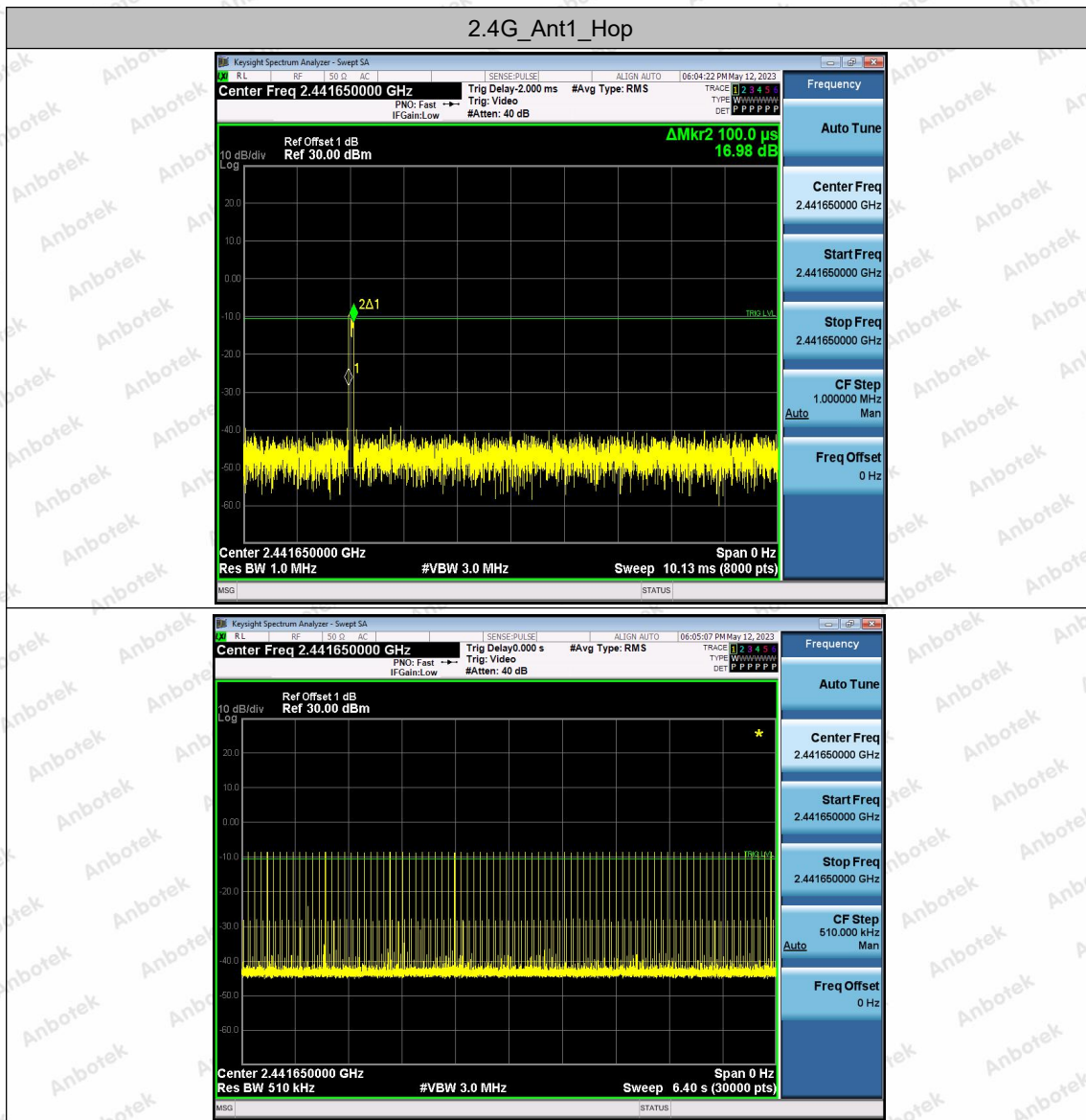
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.100	163	0.016	≤0.4	PASS



Test Graphs



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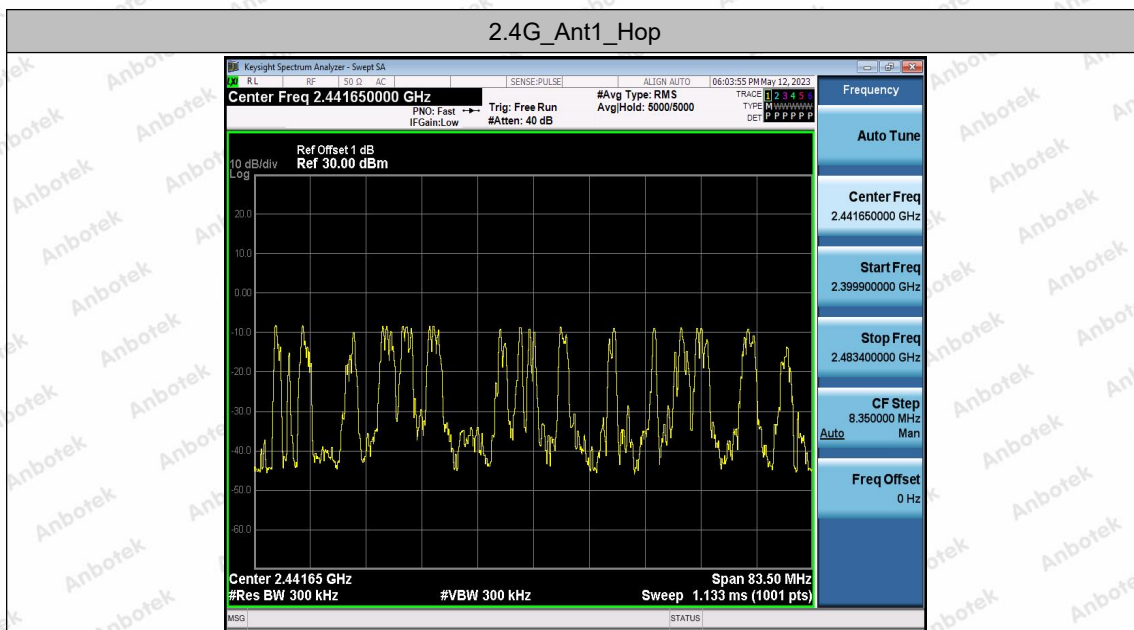
Appendix F: Number of hopping channels

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	2403.65	-8.43	-48.82	≤-28.43	PASS
		High	2479.65	-9.10	-47.65	≤-29.1	PASS
		Low	Hop_2403.65	-8.16	-56.66	≤-28.16	PASS
		High	Hop_2479.65	-8.98	-55.92	≤-28.98	PASS



Test Graphs

2.4G_Ant1_Low_2403.65



2.4G_Ant1_High_2479.65



2.4G_Ant1_Low_Hop_2403.65

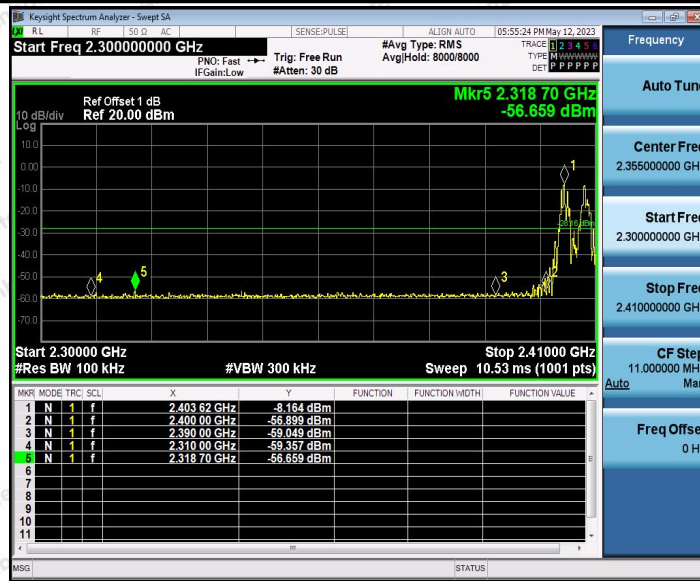
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2.4G_Ant1_High_Hop_2479.65



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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	2403.65	Reference	-8.37	-8.37	---	PASS
			30~1000	-8.37	-68.71	≤-28.37	PASS
			1000~26500	-8.37	-52.99	≤-28.37	PASS
		2441.65	Reference	-8.72	-8.72	---	PASS
			30~1000	-8.72	-68.54	≤-28.72	PASS
			1000~26500	-8.72	-52.87	≤-28.72	PASS
		2479.65	Reference	-9.16	-9.16	---	PASS
			30~1000	-9.16	-68.48	≤-29.16	PASS
			1000~26500	-9.16	-40.36	≤-29.16	PASS

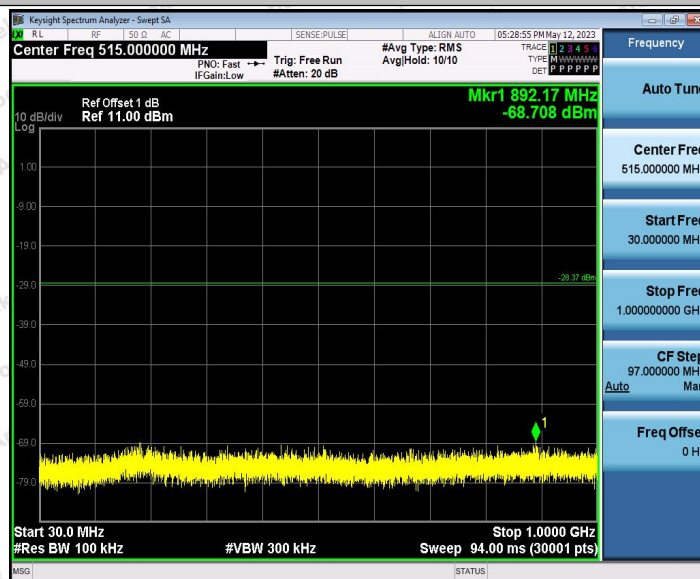


Test Graphs

2.4G_Ant1_2403.65_0~Reference



2.4G_Ant1_2403.65_30~1000



2.4G_Ant1_2403.65_1000~26500

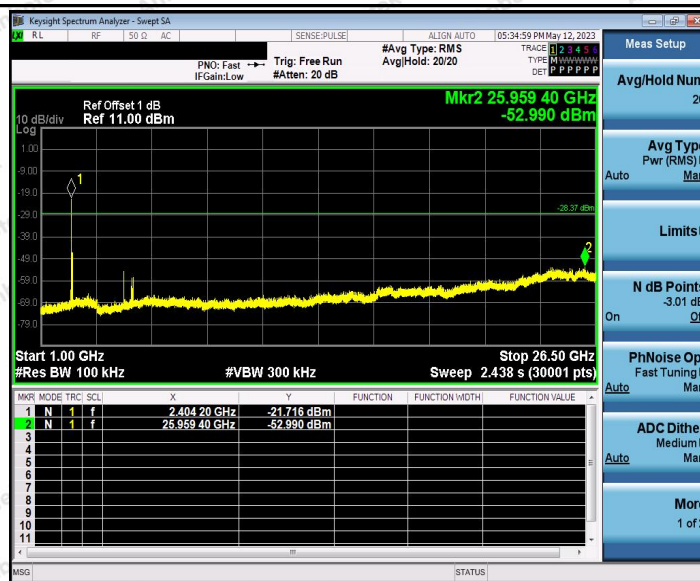
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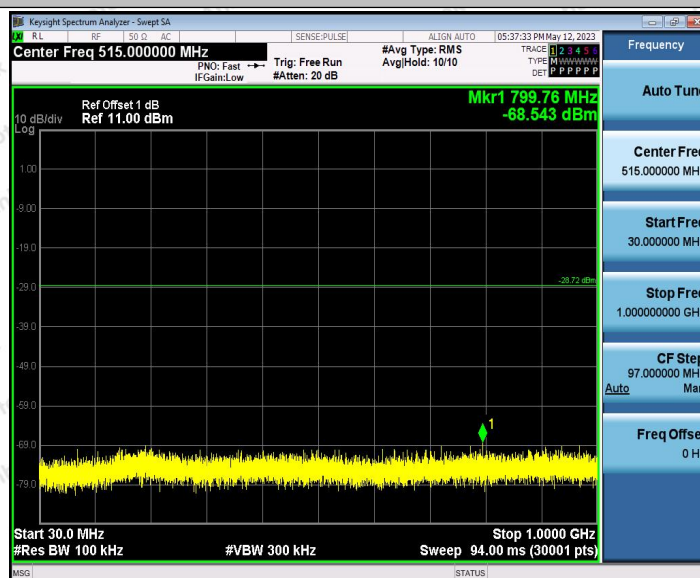




2.4G_Ant1_2441.65_0~Reference



2.4G_Ant1_2441.65_30~1000



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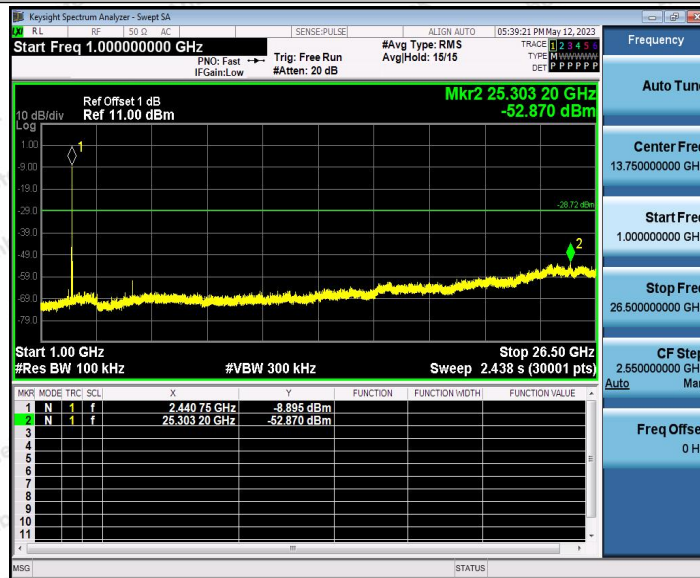
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2.4G_Ant1_2441.65_1000~26500



2.4G_Ant1_2479.65_0~Reference



2.4G_Ant1_2479.65_30~1000

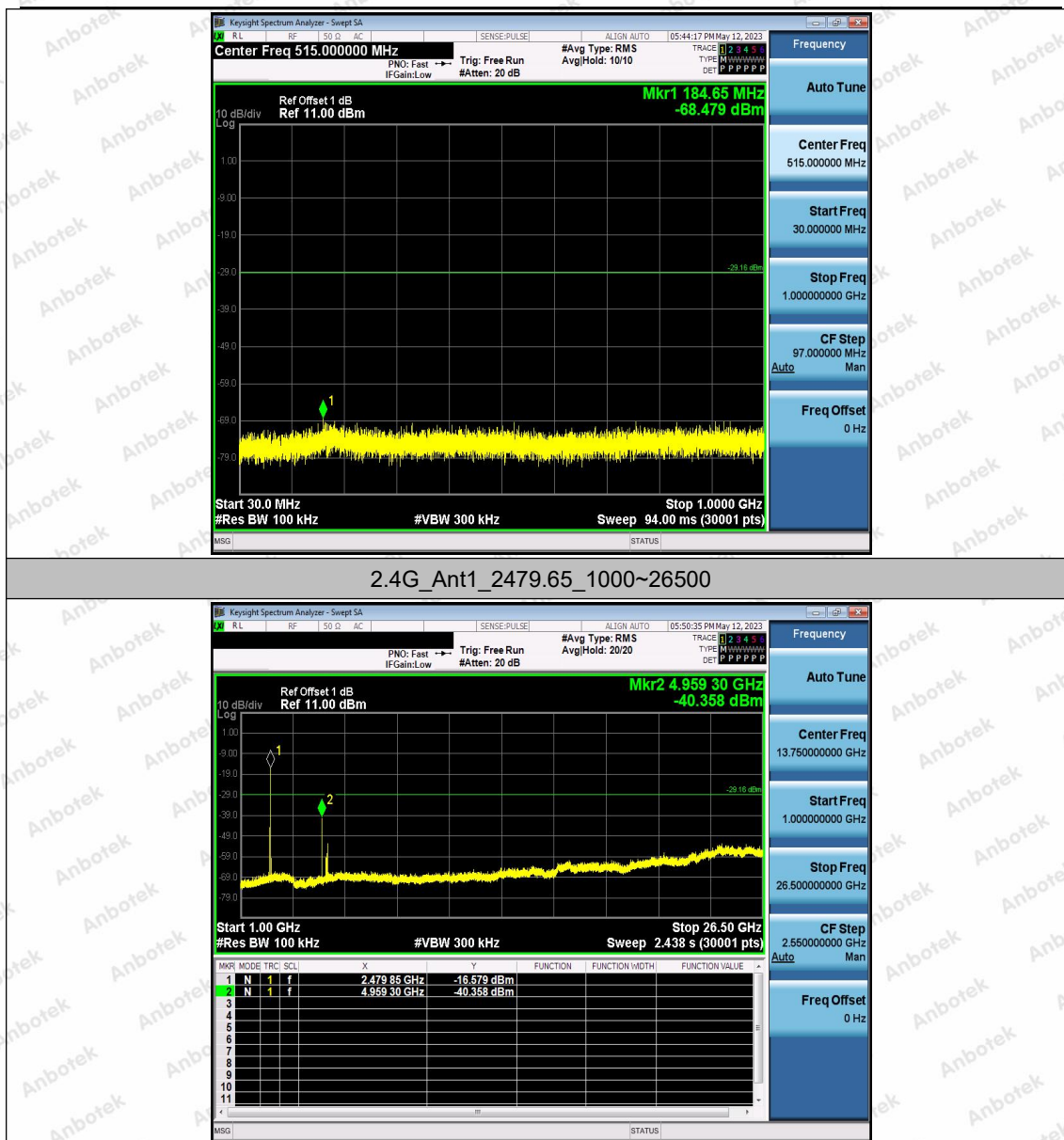
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Appendix I: Duty Cycle

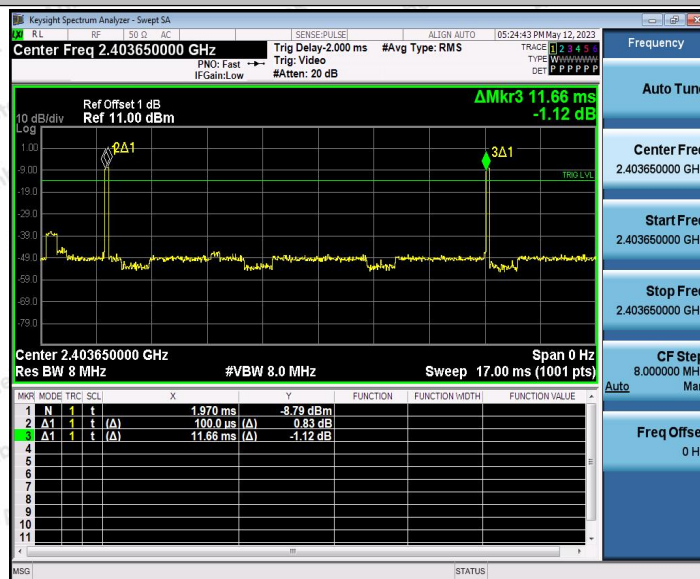
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403.65	0.10	11.66	0.86	20.66
		2441.65	0.11	11.76	0.94	20.27
		2479.65	0.10	11.77	0.85	20.71

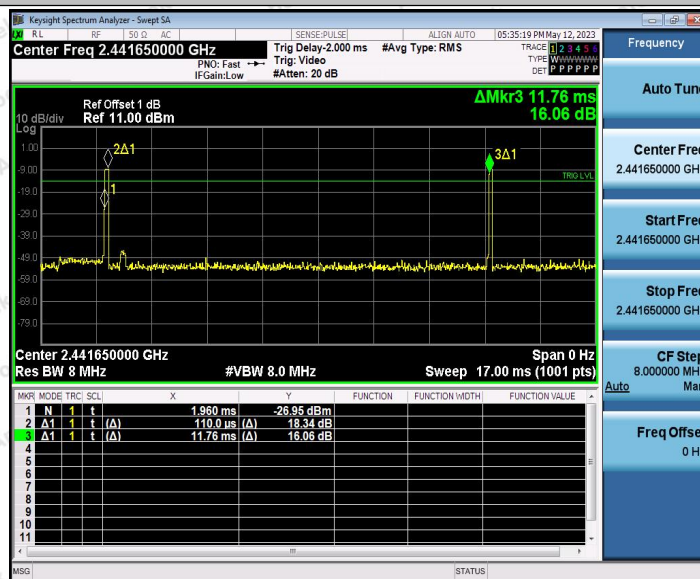


Test Graphs

2.4G_Ant1_2403.65



2.4G_Ant1_2441.65



2.4G_Ant1_2479.65

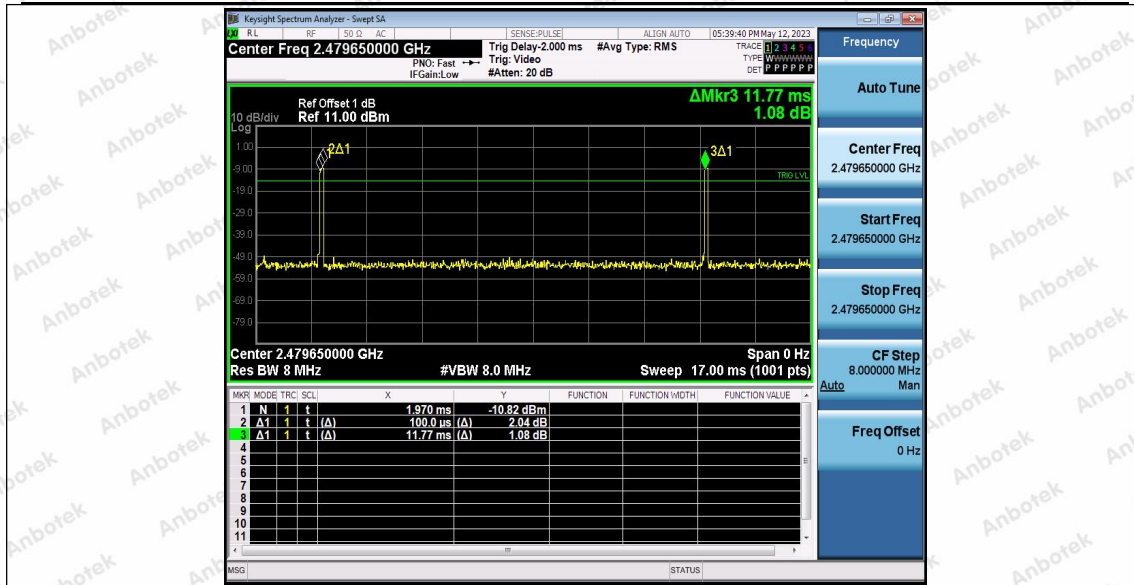
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