

Appendix Test Data

Report No.:	18220WC30085301	Test Sample No.:	1-2-2
Start Test Date:	2023.05.11	Finish Test Date:	2023.05.12
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	25.9°C	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	2.088	2402.714	2404.802	---	---
		2441.65	2.064	2440.698	2442.762	---	---
		2479.65	2.176	2478.618	2480.794	---	---

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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 B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403.65	2.6530	2402.2958	2404.9488	---	---
		2441.65	2.7648	2440.2739	2443.0387	---	---
		2479.65	2.6411	2478.3590	2481.0001	---	---

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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	2403.65	-3.94	≤30	PASS
		2441.65	-4.19	≤30	PASS
		2479.65	-4.41	≤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	≥1.451	PASS

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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	0.122	245	0.03	≤0.4	PASS

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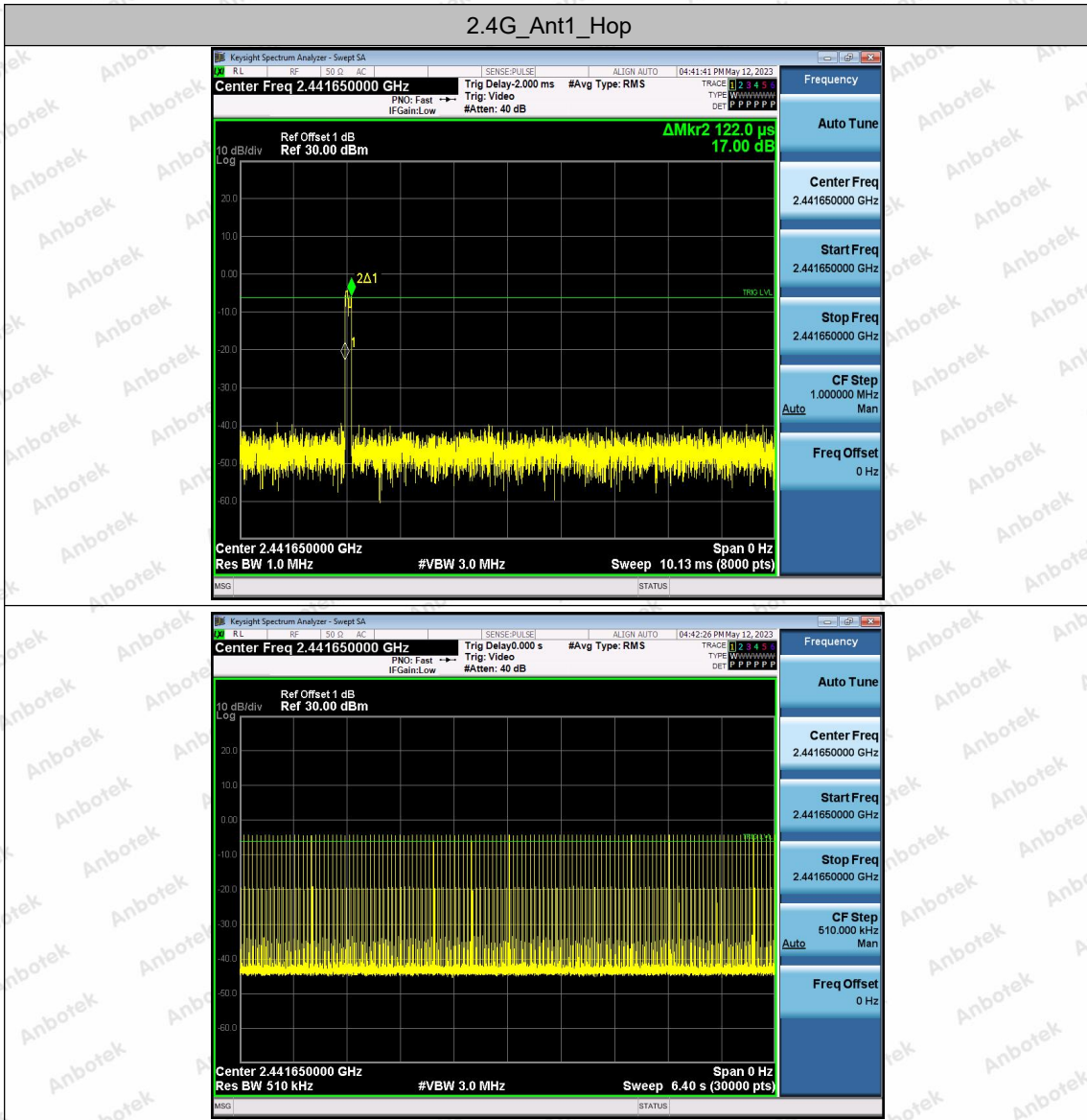
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Test Graphs



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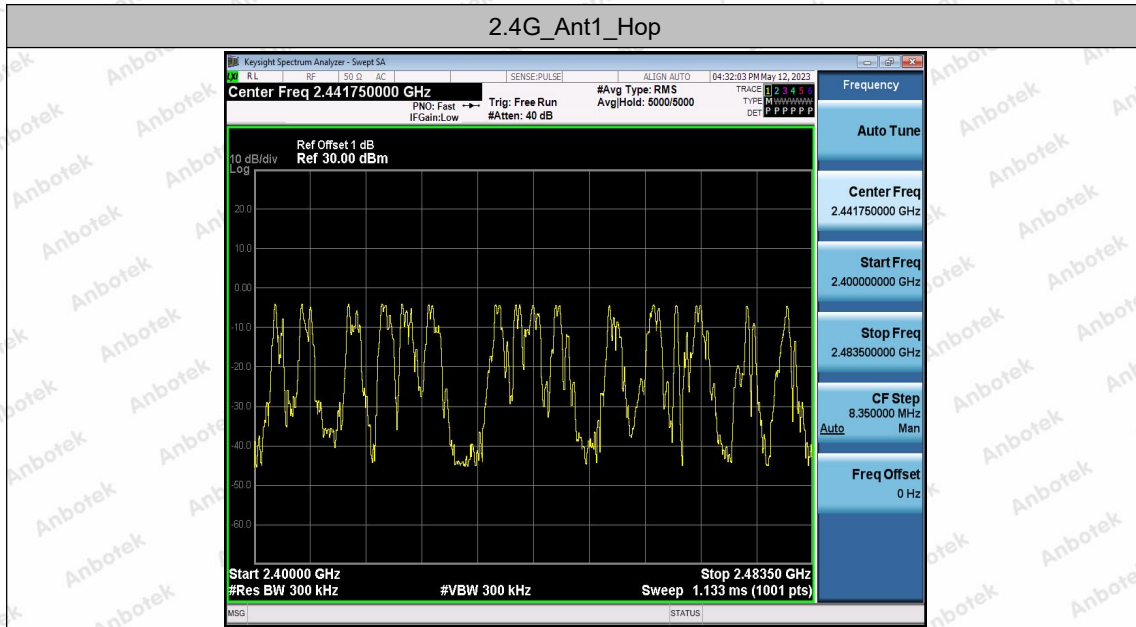
Appendix F: Number of hopping channels

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	2403.65	-4.09	-43.74	≤-24.09	PASS
		High	2479.65	-4.56	-42.61	≤-24.56	PASS
		Low	Hop_2403.65	-3.95	-43.86	≤-23.95	PASS
		High	Hop_2479.65	-4.45	-43.2	≤-24.45	PASS

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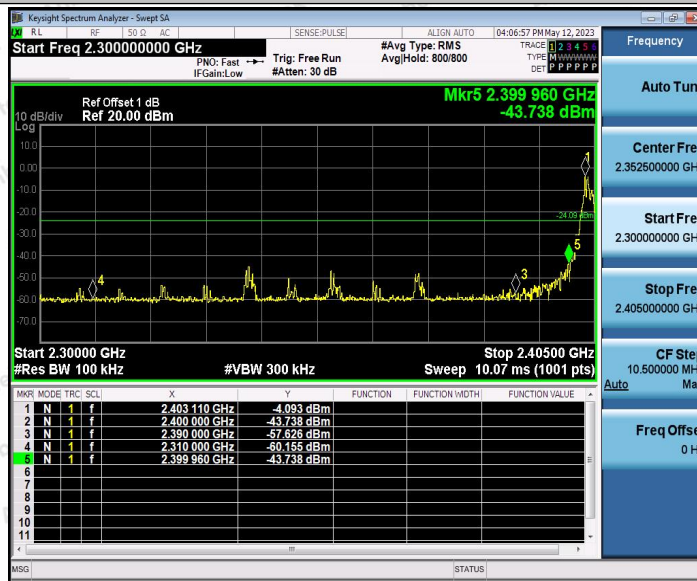


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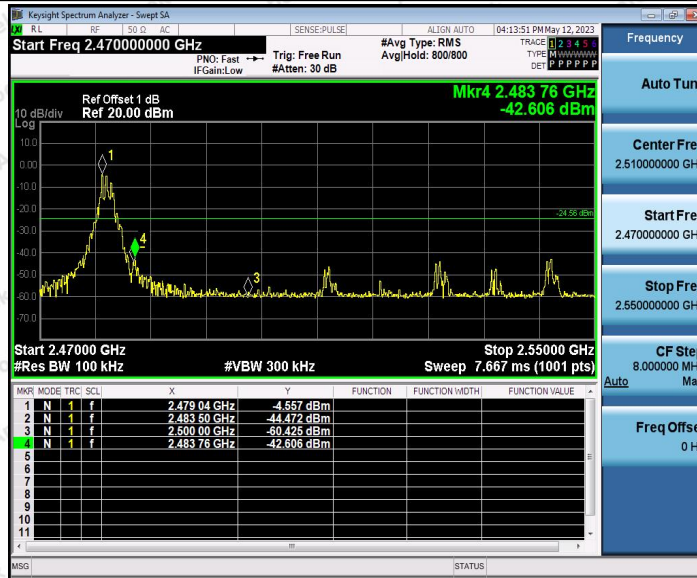


Test Graphs

2.4G_Ant1_Low_2403.65



2.4G_Ant1_High_2479.65



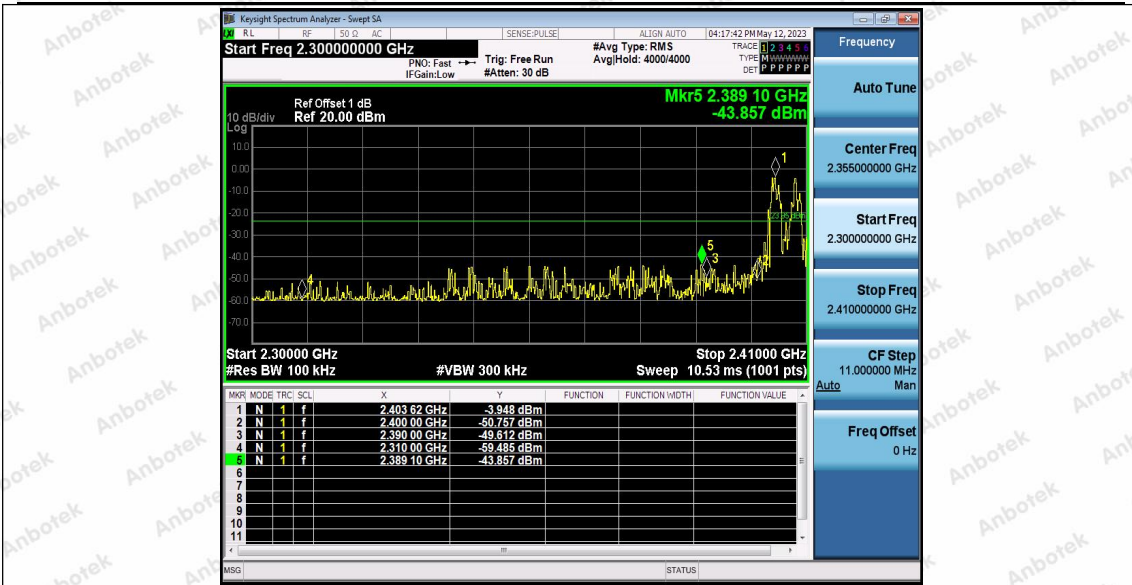
2.4G_Ant1_Low_Hop_2403.65

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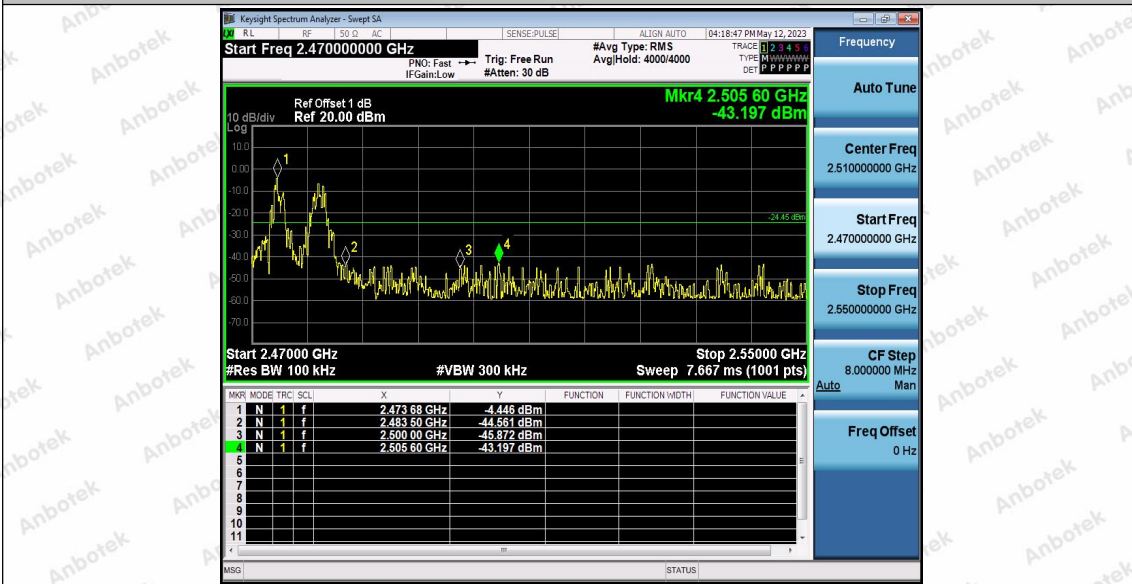
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2.4G_Ant1_High_Hop_2479.65



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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	-4.17	-4.17	---	PASS
			30~1000	-4.17	-59.62	≤-24.17	PASS
			1000~26500	-4.17	-36.9	≤-24.17	PASS
		2441.65	Reference	-4.36	-4.36	---	PASS
			30~1000	-4.36	-60.72	≤-24.36	PASS
			1000~26500	-4.36	-49.25	≤-24.36	PASS
		2479.65	Reference	-4.59	-4.59	---	PASS
			30~1000	-4.59	-51.9	≤-24.59	PASS
			1000~26500	-4.59	-47.36	≤-24.59	PASS

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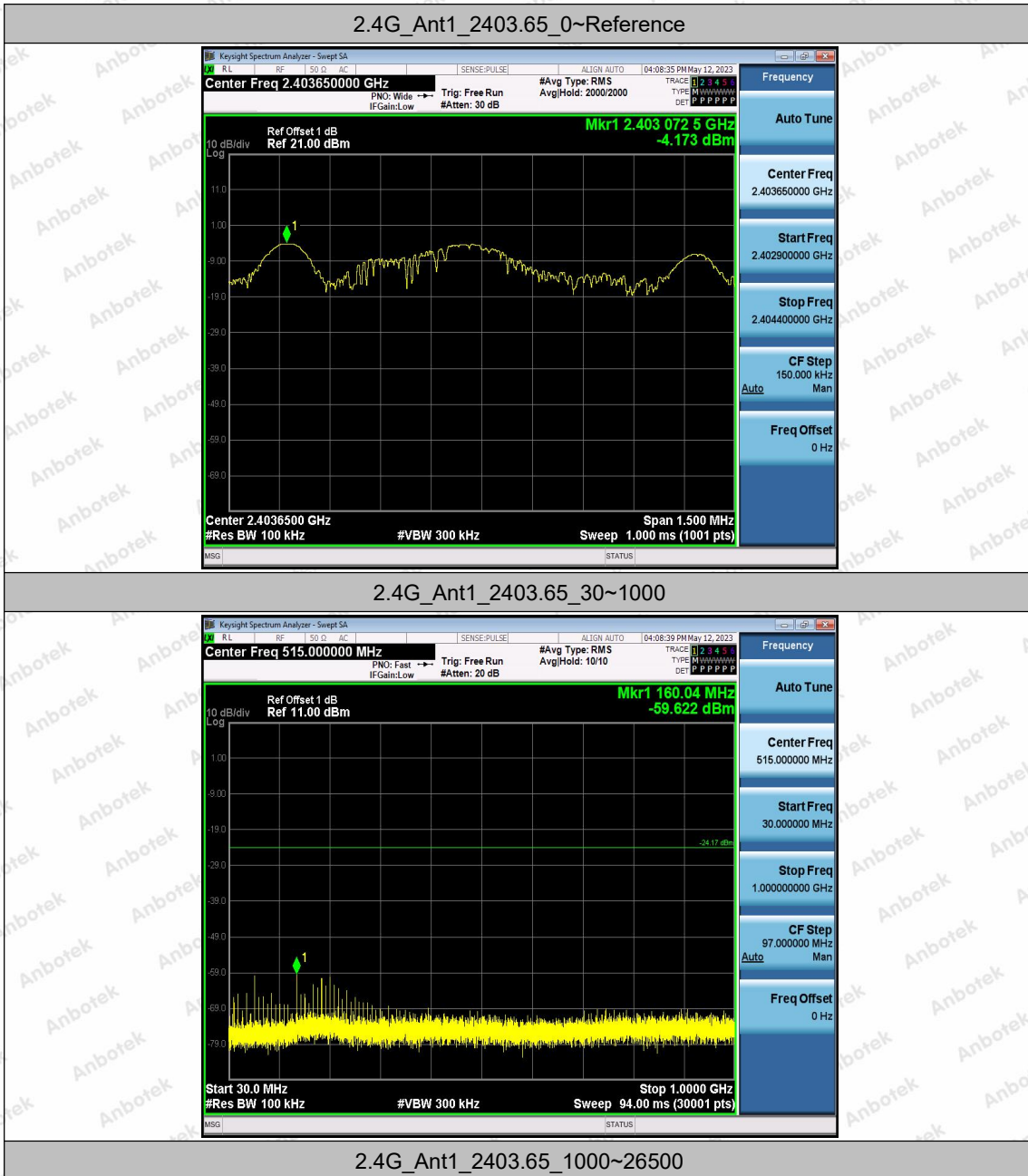
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Test Graphs

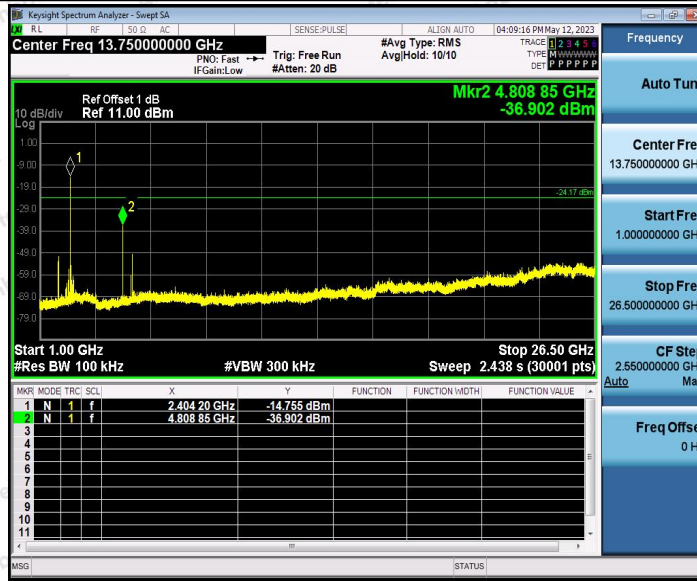


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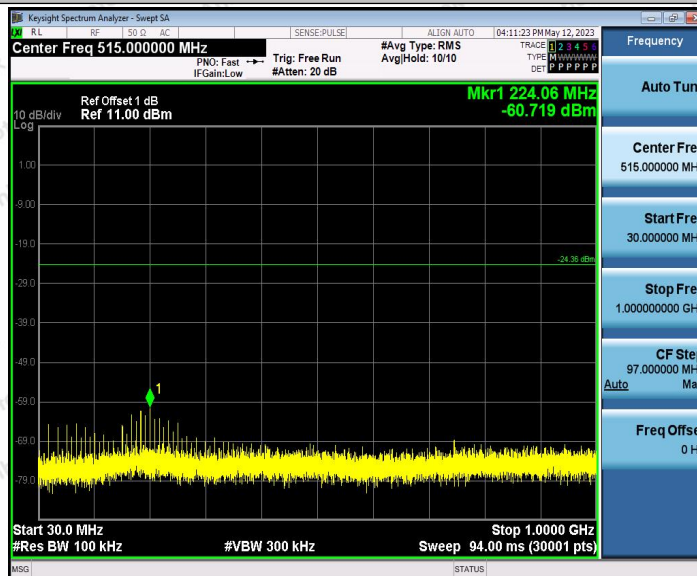




2.4G_Ant1_2441.65_0~Reference



2.4G_Ant1_2441.65_30~1000



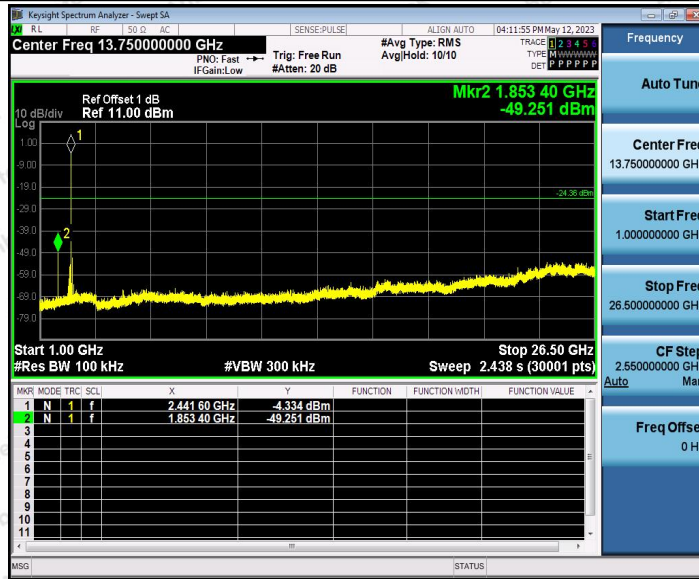
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2.4G_Ant1_2441.65_1000~26500



2.4G_Ant1_2479.65_0~Reference



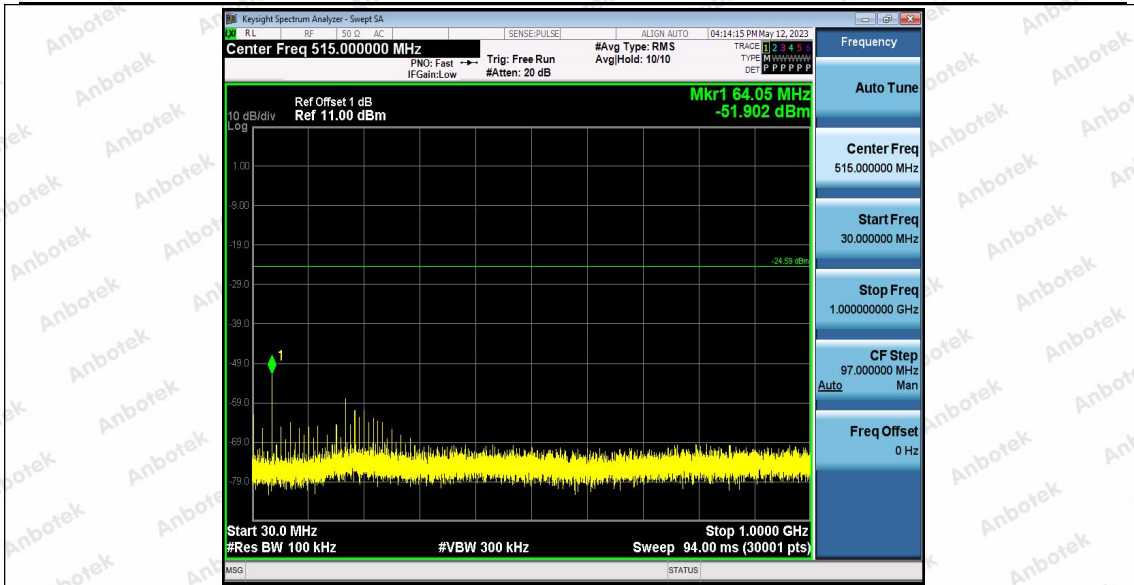
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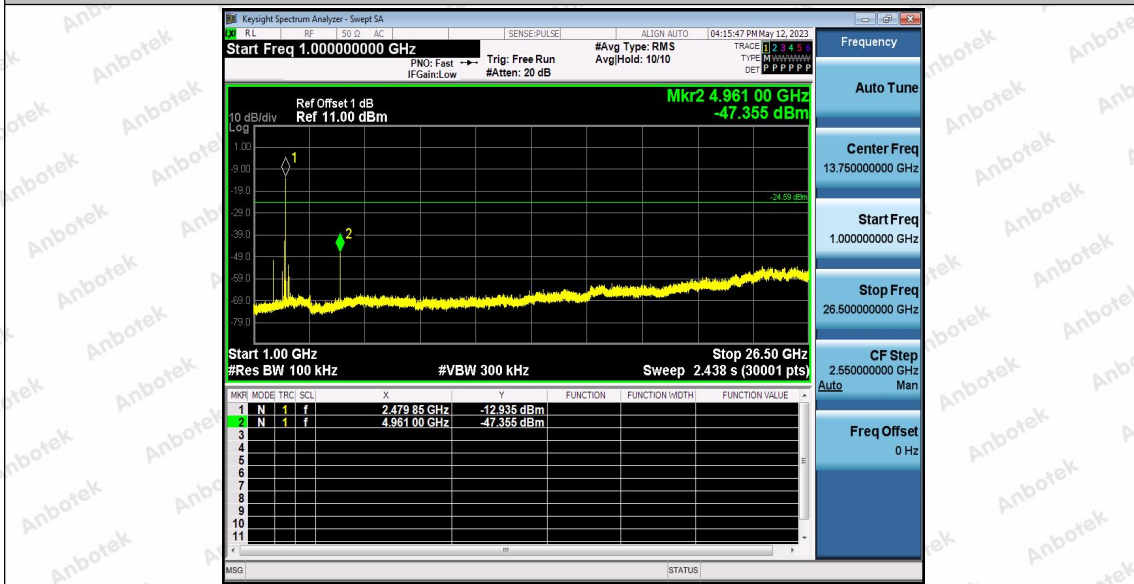
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2.4G_Ant1_2479.65_1000~26500



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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	2403.65	0.12	7.86	1.53	18.15
		2441.65	0.12	7.86	1.53	18.15
		2479.65	0.12	7.86	1.53	18.15

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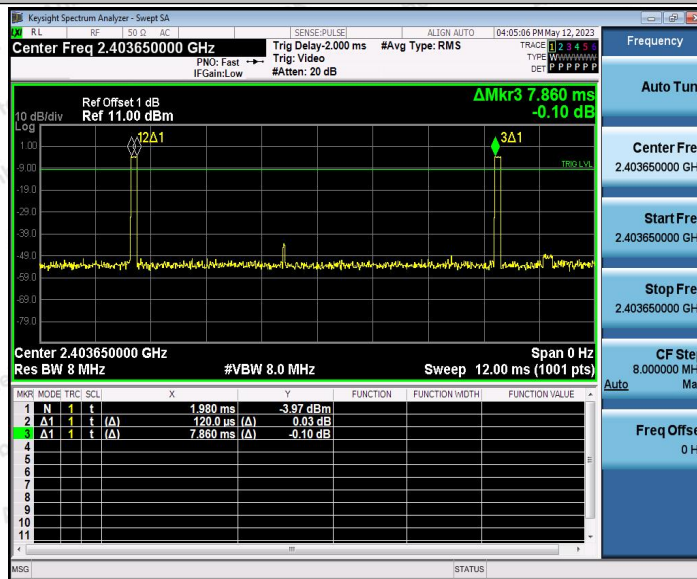


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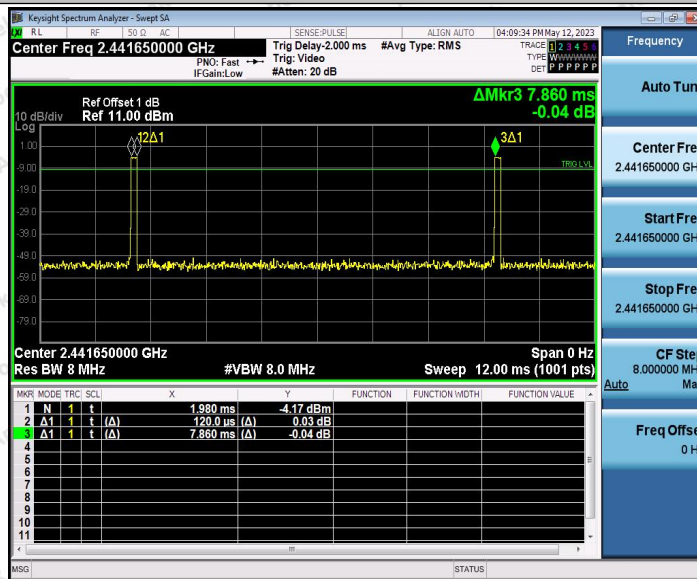


Test Graphs

2.4G_Ant1_2403.65



2.4G_Ant1_2441.65



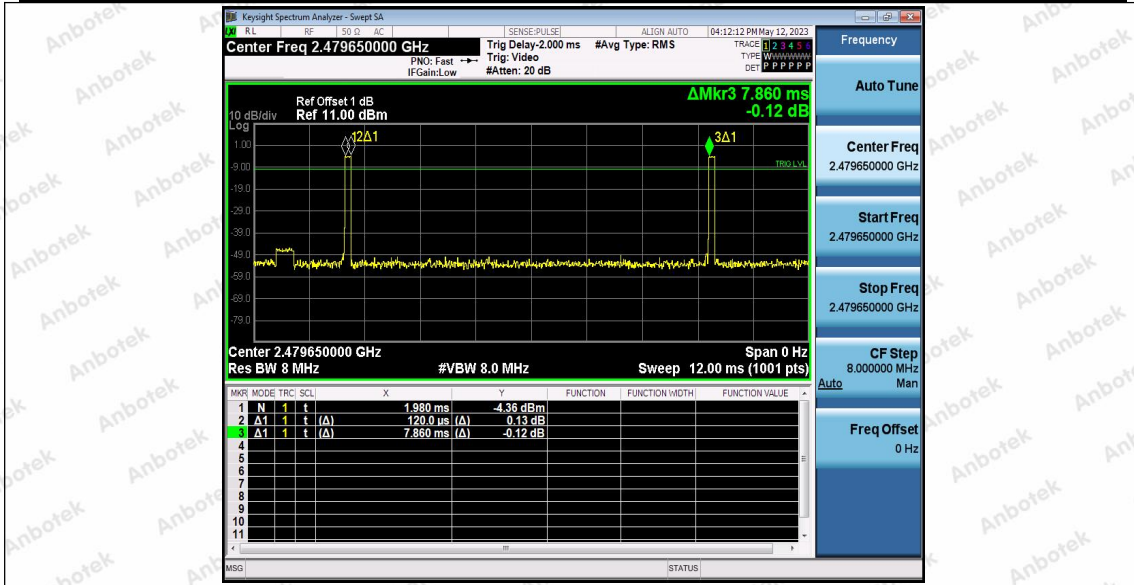
2.4G_Ant1_2479.65

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