

Appendix Test Data

Report No.:	18220WC30126201	Test Sample No.:	1-2-2
Start Test Date:	2023.06.25	Finish Test Date:	2023.07.13
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	26.1℃	Relative Humidity:	51%
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	2404	1.074	2403.475	2404.549
		2439	1.065	2438.490	2439.555
		2479	1.311	2478.241	2479.552



Test Graphs

2.4G_Ant1_2404



2.4G_Ant1_2439



2.4G_Ant1_2479

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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	2404	1.0390	2403.4905	2404.5295
		2439	1.0385	2438.4916	2439.5301
		2479	1.4925	2478.0618	2479.5543



Test Graphs

2.4G_Ant1_2404



2.4G_Ant1_2439



2.4G_Ant1_2479

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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	2404	-3.01	≤20.97	PASS
		2439	-3.51	≤20.97	PASS
		2479	-3.68	≤20.97	PASS



Test Graphs

2.4G_Ant1_2404



2.4G_Ant1_2439



2.4G_Ant1_2479

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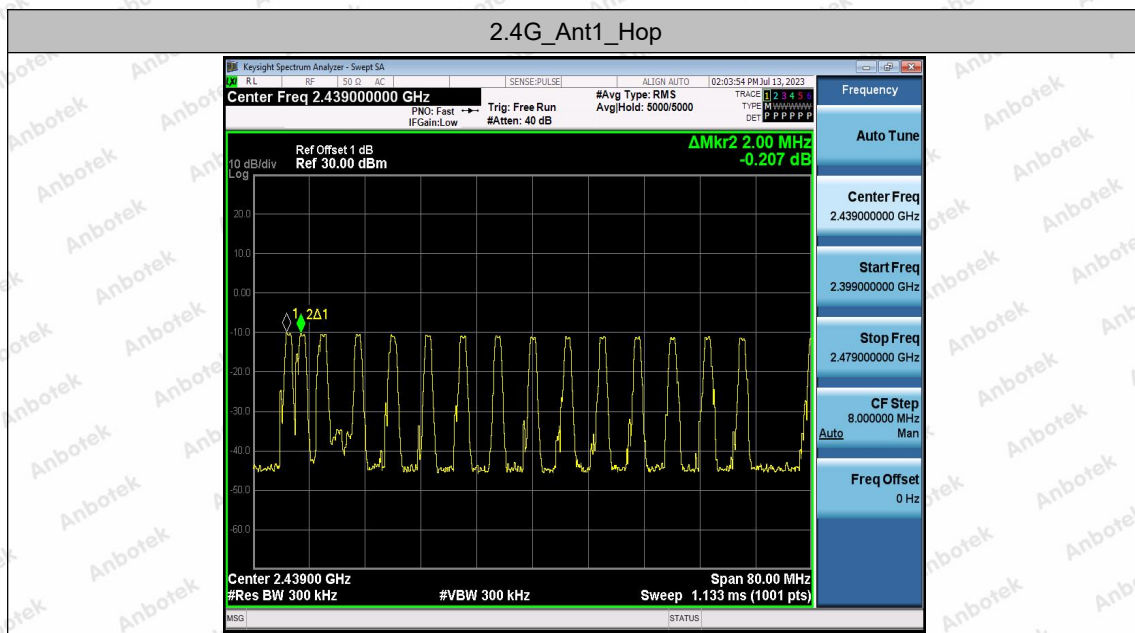


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.000	≥0.874	PASS

Test Graphs



Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.417	36	0.015	≤0.4	PASS

Test Graphs



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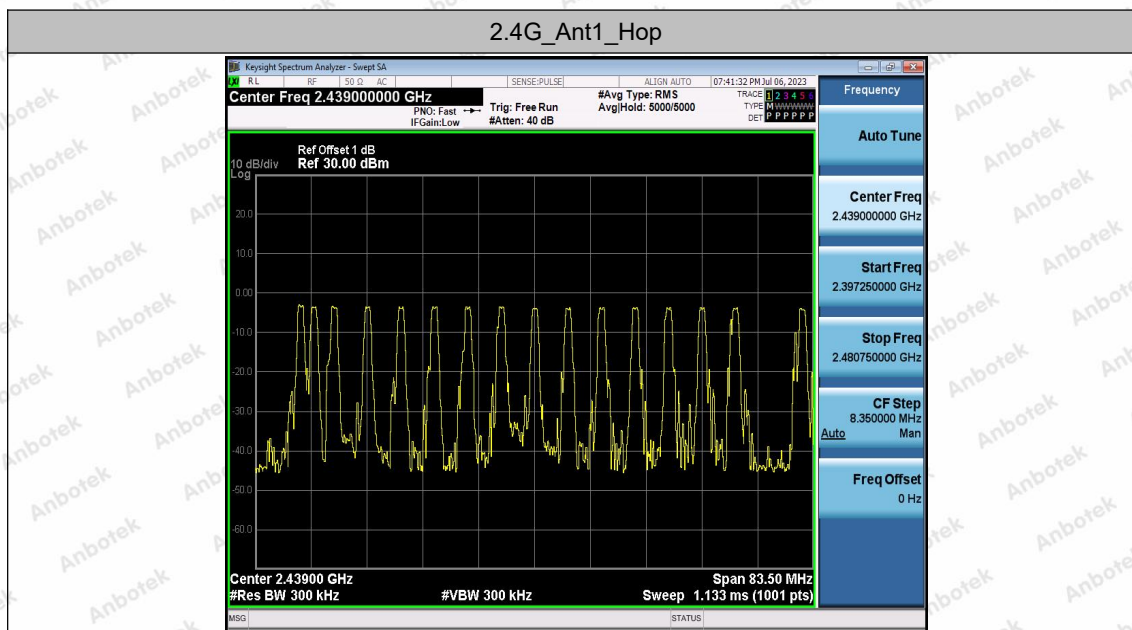


Appendix F: Number of hopping channels

Test Result

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

Test Graphs



Appendix G: Band edge measurements

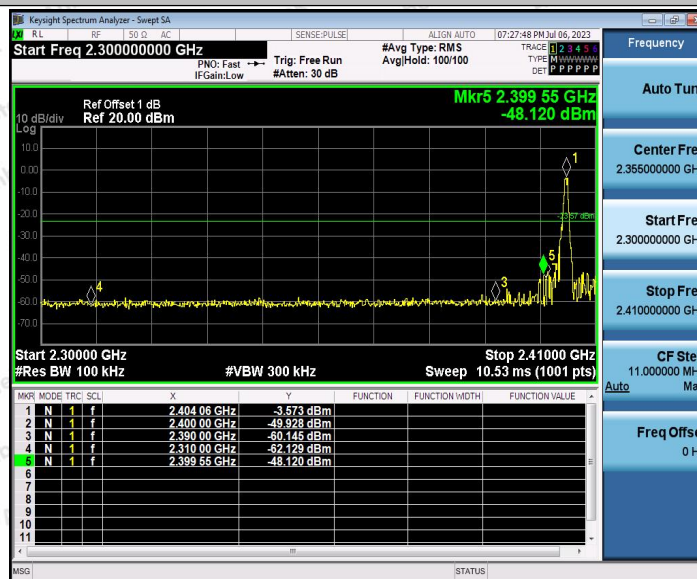
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2404	-3.57	-48.12	≤-23.57	PASS
		High	2479	-4.26	-49.79	≤-24.26	PASS
		Low	Hop_2404	-3.22	-57.3	≤-23.22	PASS
		High	Hop_2479	-3.77	-56.81	≤-23.77	PASS

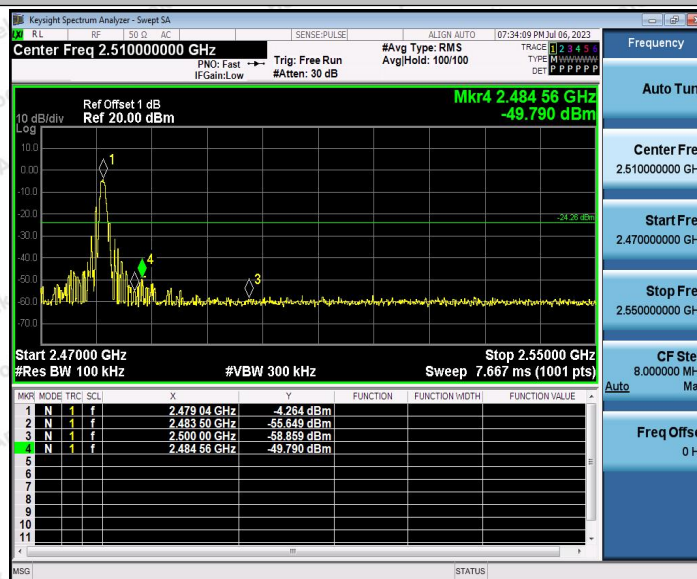


Test Graphs

2.4G_Ant1_Low_2404



2.4G_Ant1_High_2479



2.4G_Ant1_Low_Hop_2404

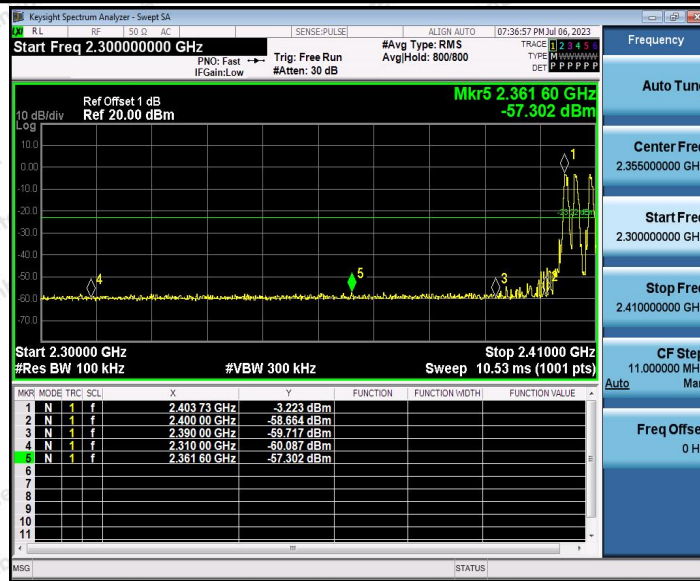
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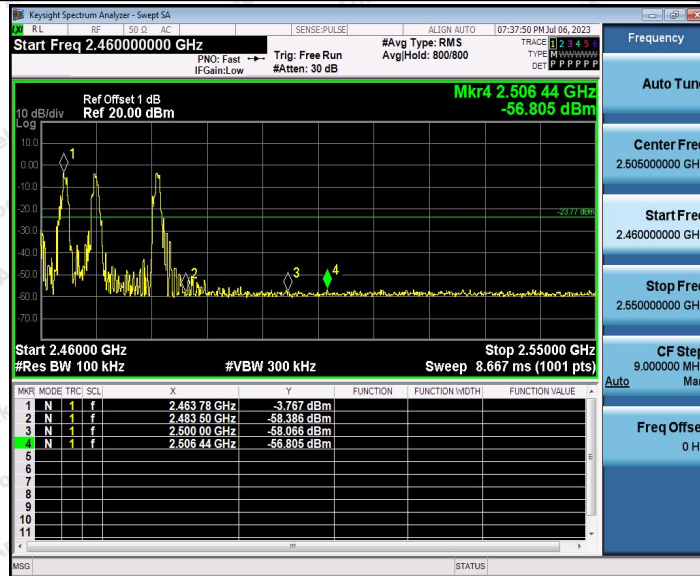


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2.4G_Ant1_High_Hop_2479



Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2404	Reference	-3.57	-3.57	---	PASS
			30~1000	-3.57	-57.06	≤-23.57	PASS
			1000~26500	-3.57	-31.8	≤-23.57	PASS
		2439	Reference	-4.16	-4.16	---	PASS
			30~1000	-4.16	-57.35	≤-24.16	PASS
			1000~26500	-4.16	-31.9	≤-24.16	PASS
		2479	Reference	-4.24	-4.24	---	PASS
			30~1000	-4.24	-50.97	≤-24.24	PASS
			1000~26500	-4.24	-26.96	≤-24.24	PASS

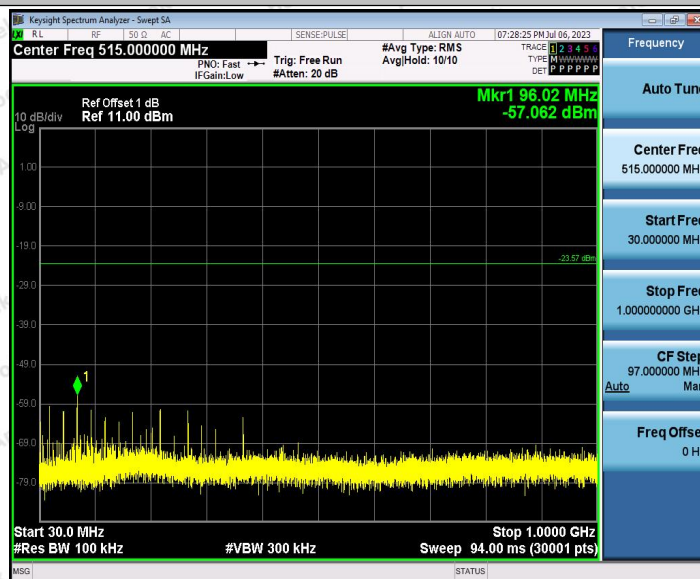


Test Graphs

2.4G_Ant1_2404_0~Reference



2.4G_Ant1_2404_30~1000



2.4G_Ant1_2404_1000~26500

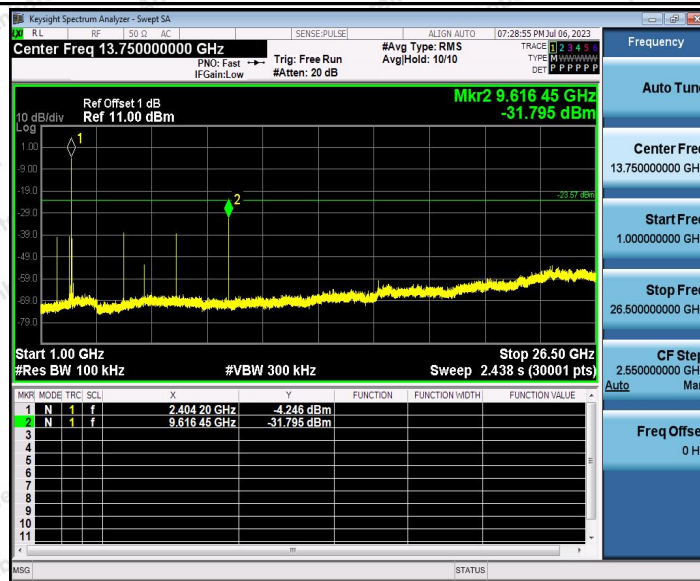
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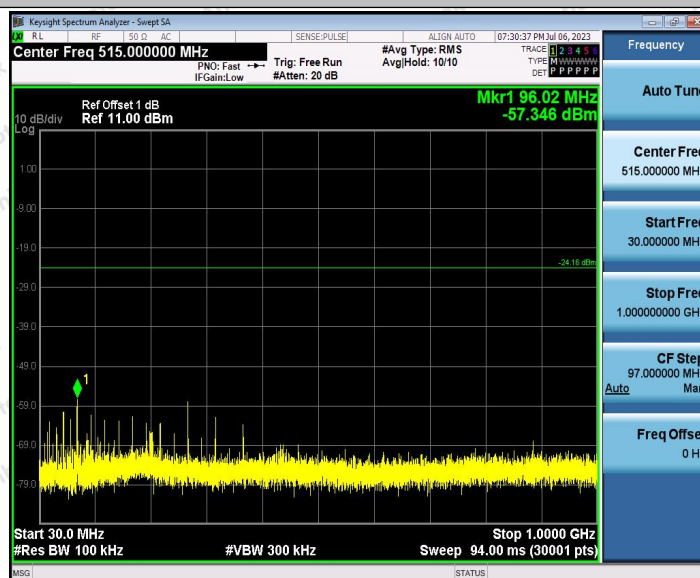




2.4G_Ant1_2439_0~Reference



2.4G_Ant1_2439_30~1000



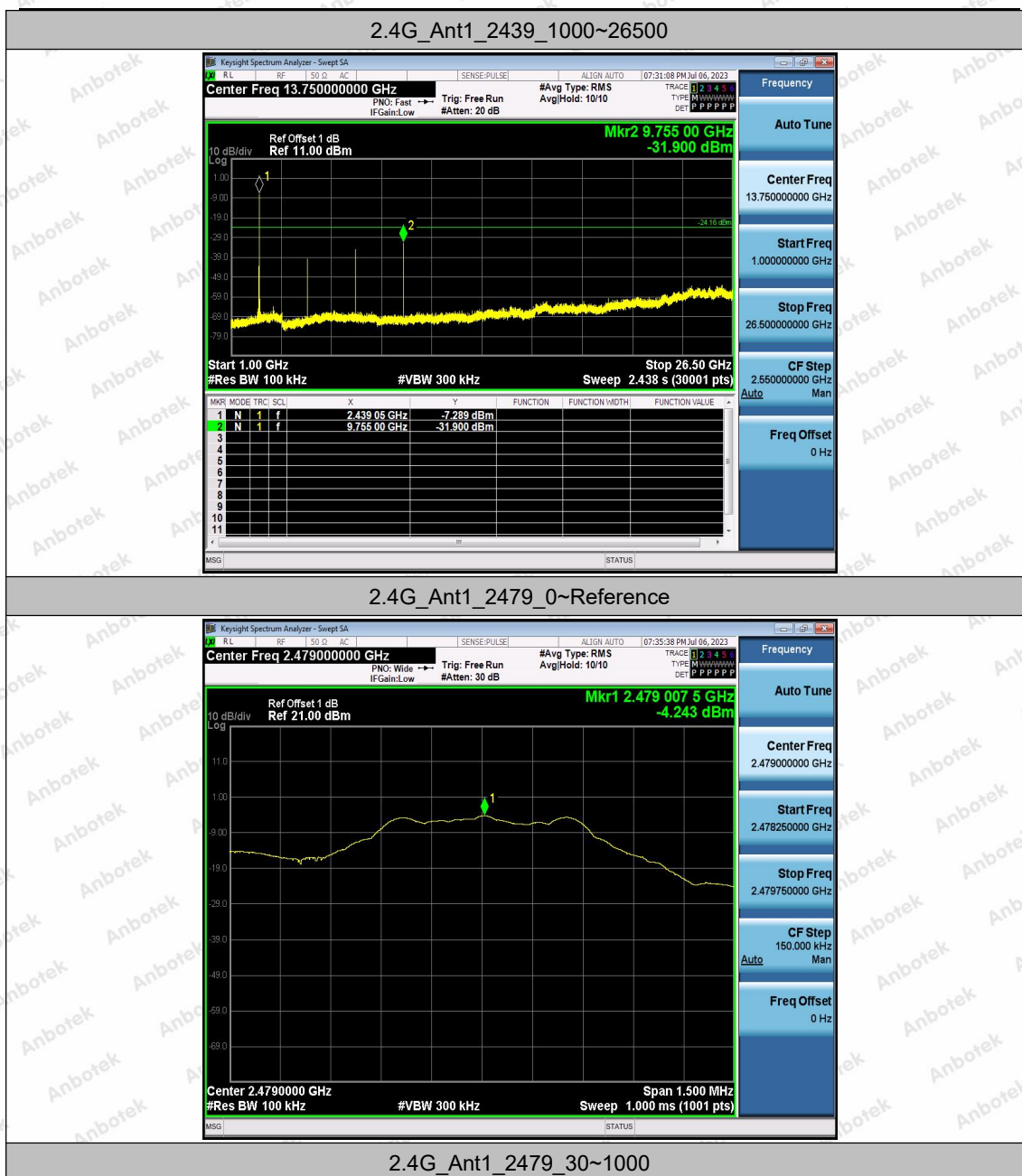
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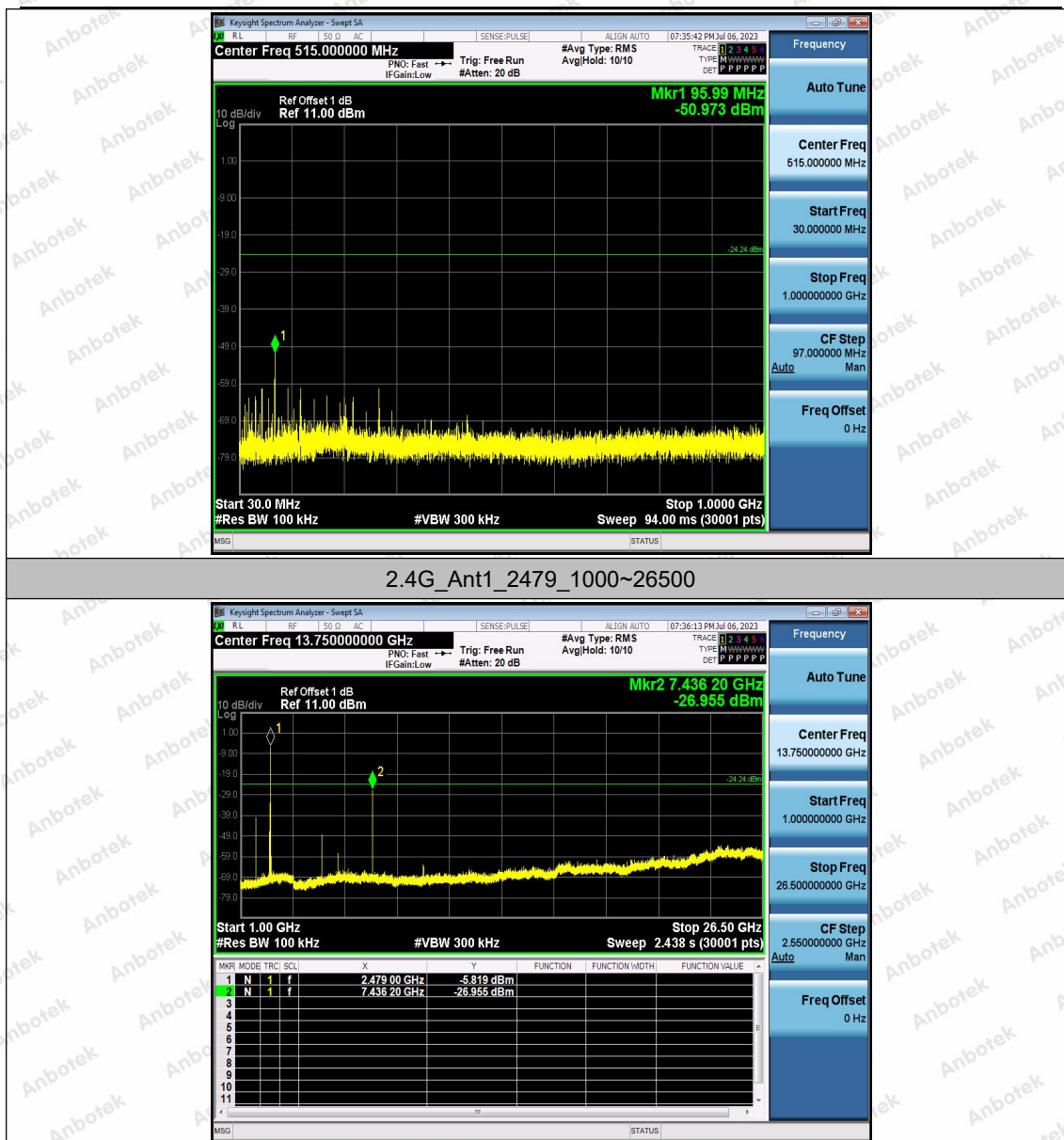
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Appendix I: Duty Cycle

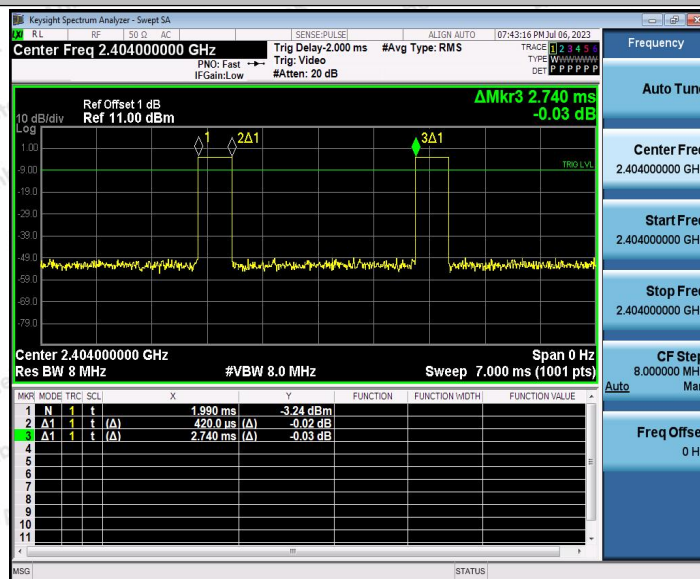
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2404	0.42	2.74	15.33	8.14
		2439	0.42	2.73	15.38	8.13
		2479	0.42	2.73	15.38	8.13

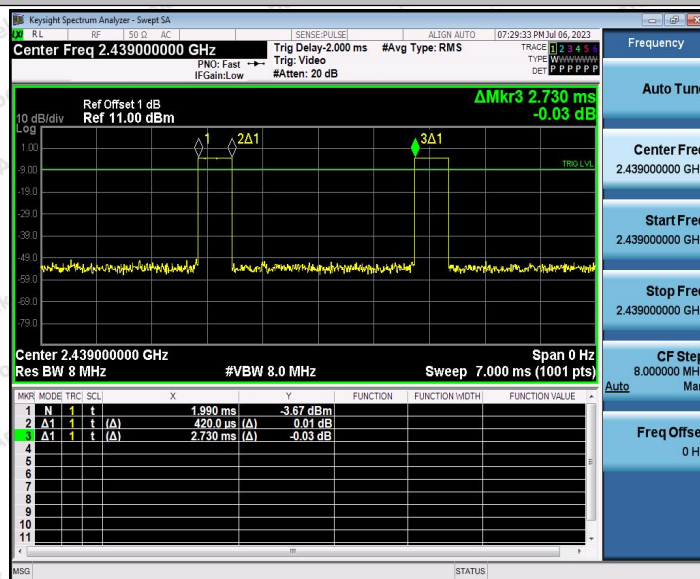


Test Graphs

2.4G_Ant1_2404



2.4G_Ant1_2439



2.4G_Ant1_2479

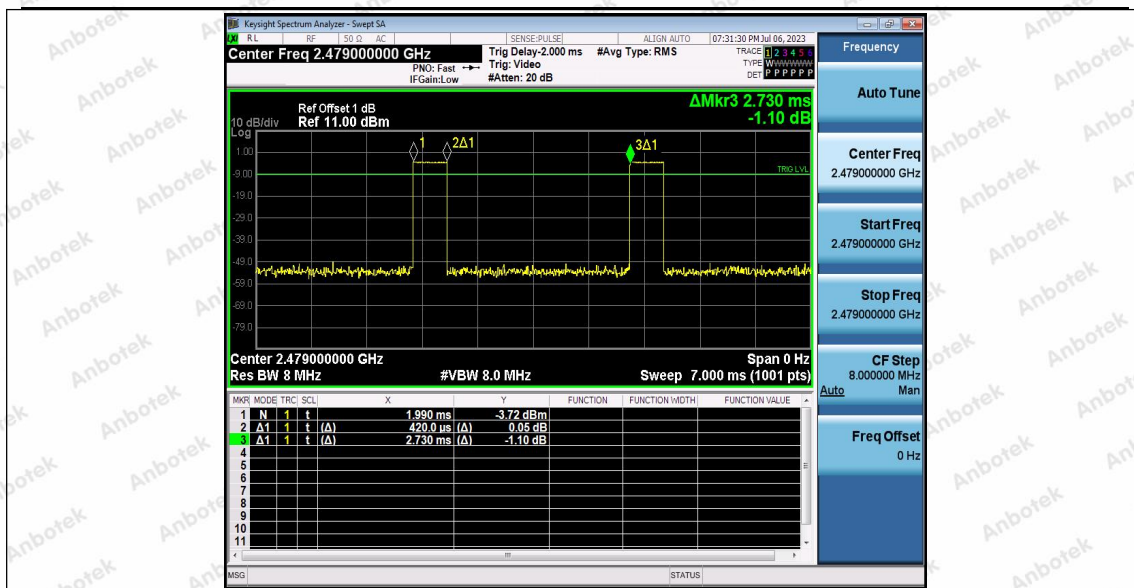
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