

Appendix Test Data

Report No.:	18220WC20269003	Test Sample No.:	1-2-2
Start Test Date:	2022.11.30	Finish Test Date:	2022.12.8
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	43 %
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	2402.4	0.777	2402.001	2402.778	---	---
		2441.4	0.765	2440.998	2441.763	---	---
		2479.4	0.762	2478.989	2479.751	---	---



Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

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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	2402.4	0.73664	2402.0188	2402.7554	---	---
		2441.4	0.73440	2441.0114	2441.7458	---	---
		2479.4	0.71725	2479.0169	2479.7342	---	---



Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

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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	2402.4	29.68	≤30	PASS
		2441.4	29.29	≤30	PASS
		2479.4	28.78	≤30	PASS



Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

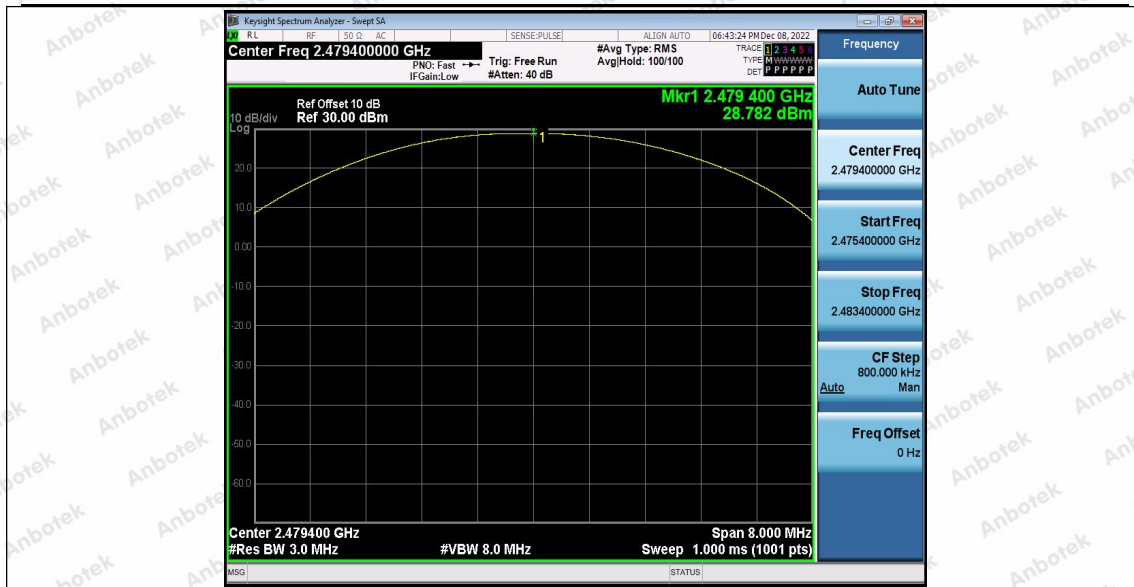
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.008	≥0.777	PASS



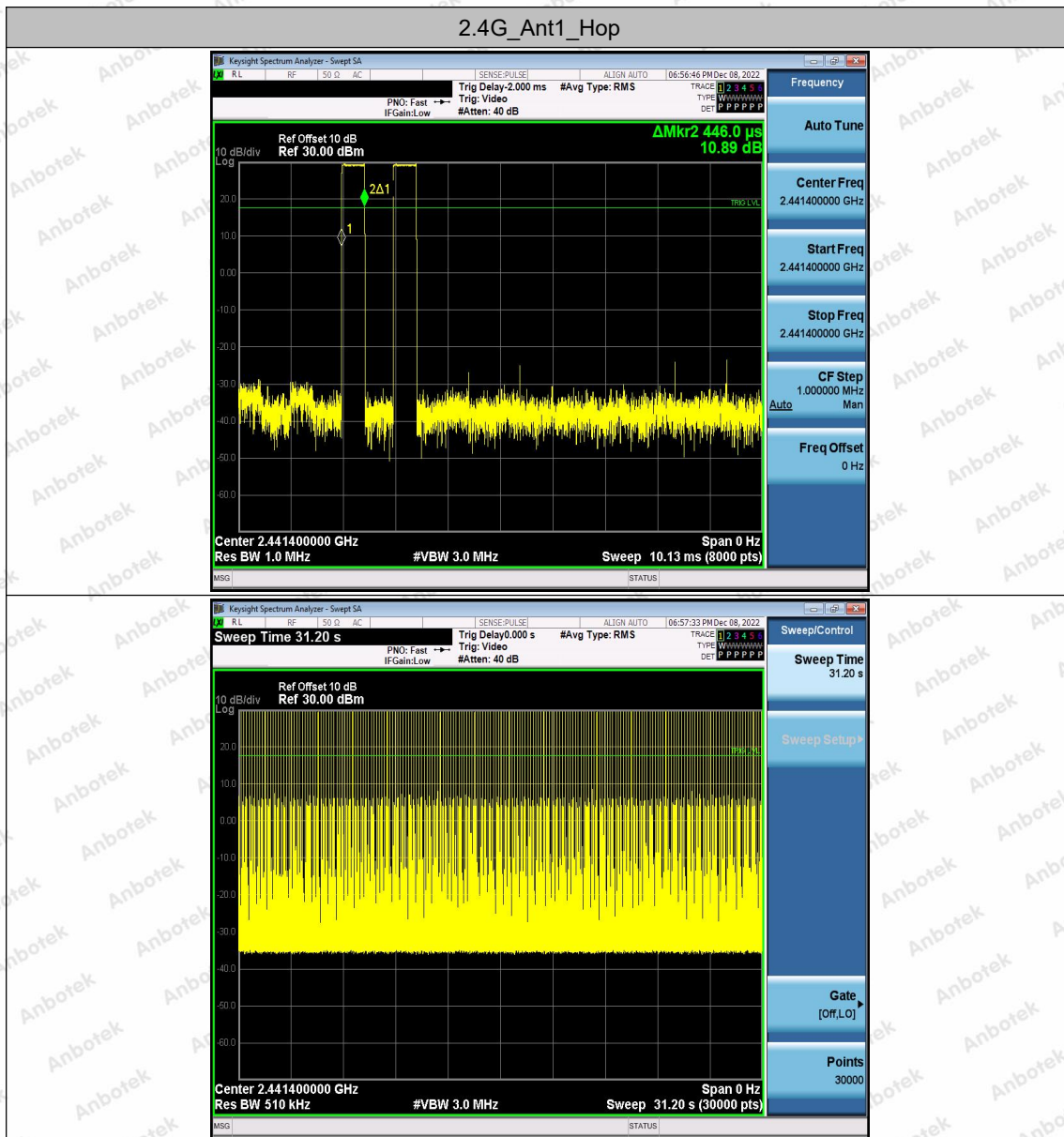
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.446	197	0.088	≤0.4	PASS



Test Graphs



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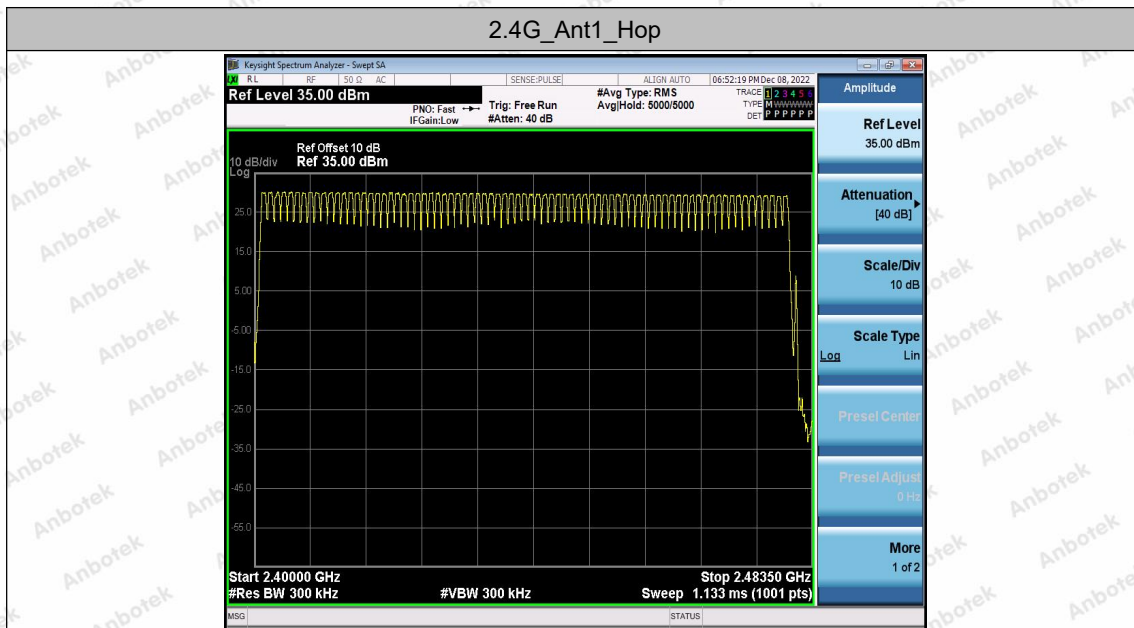
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	78	≥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	2402.4	29.12	-13.64	≤9.12	PASS
		High	2479.4	28.27	-34.48	≤8.27	PASS
		Low	Hop_2402	28.91	-28.76	≤8.91	PASS
		High	Hop_2480	29.16	-35.04	≤9.16	PASS

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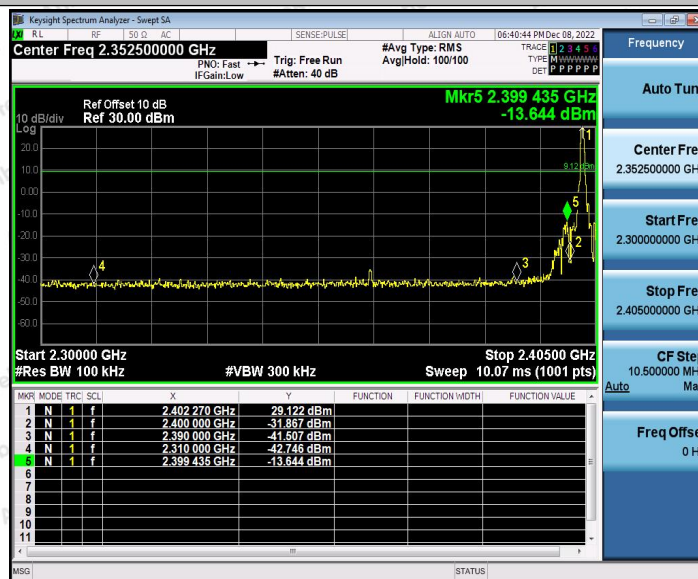


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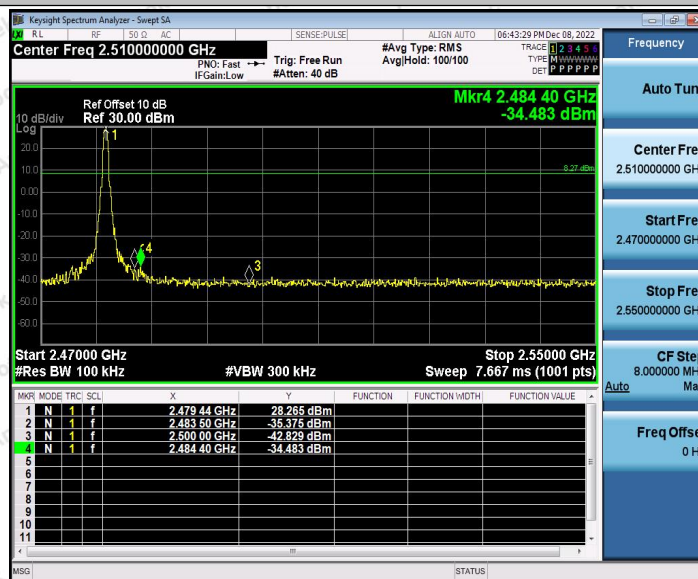


Test Graphs

2.4G_Ant1_Low_2402.4



2.4G_Ant1_High_2479.4



2.4G_Ant1_Low_Hop_2402

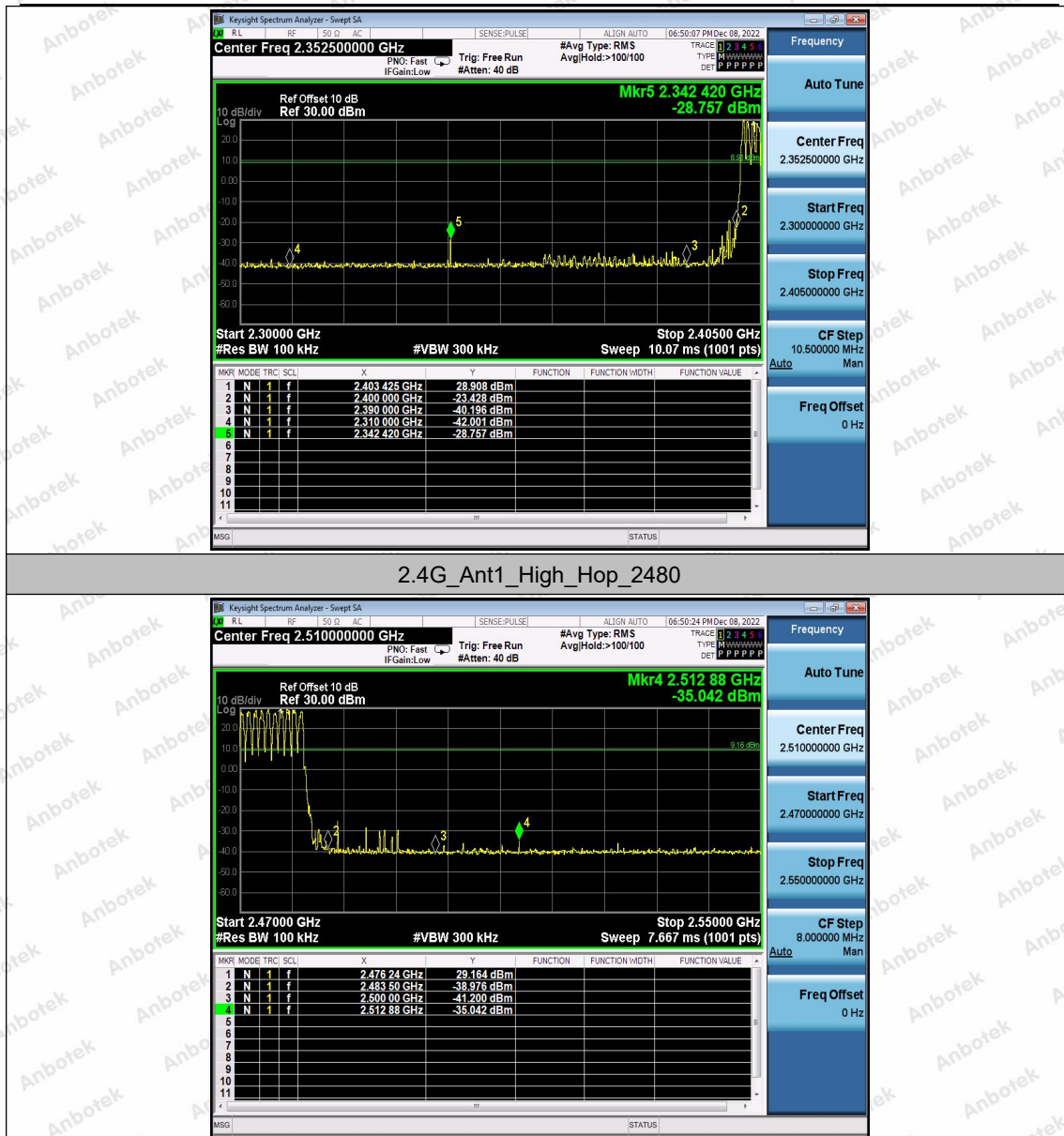
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2402.4	Reference	29.26	29.26	---	PASS
			30~1000	29.26	-59.57	≤9.26	PASS
			1000~26500	29.26	-41.78	≤9.26	PASS
		2441.4	Reference	28.82	28.82	---	PASS
			30~1000	28.82	-59.46	≤8.82	PASS
			1000~26500	28.82	-43.11	≤8.82	PASS
		2479.4	Reference	28.02	28.02	---	PASS
			30~1000	28.02	-59.6	≤8.02	PASS
			1000~26500	28.02	-43.97	≤8.02	PASS



Test Graphs



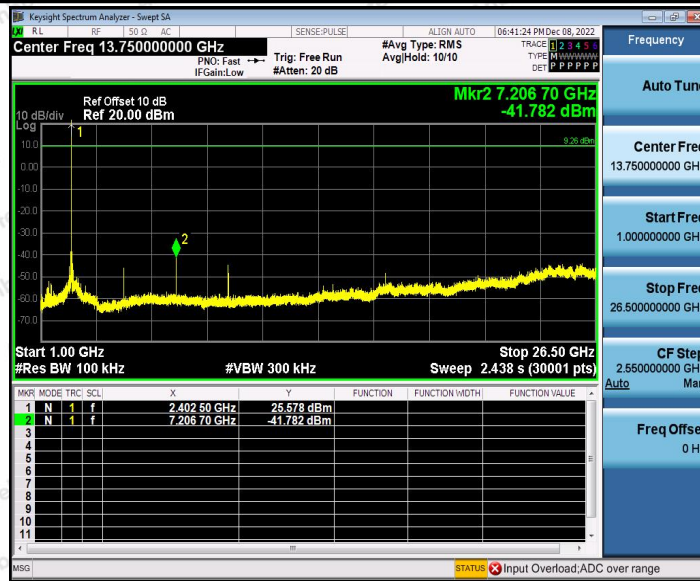
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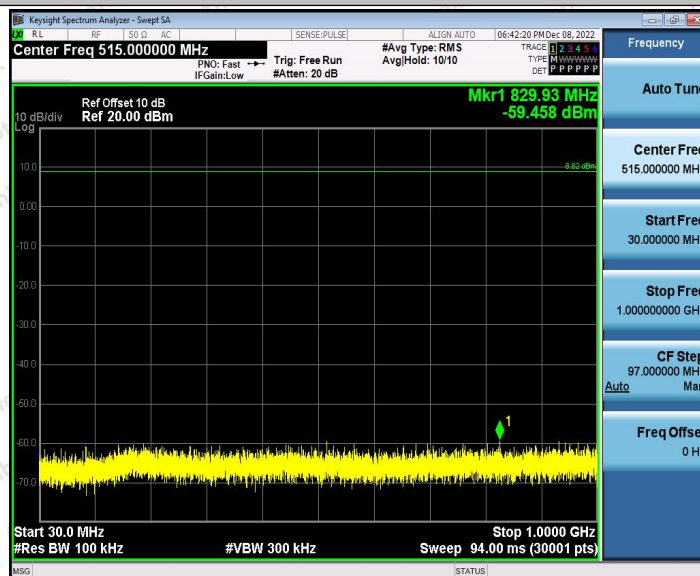




2.4G_Ant1_2441.4_0~Reference



2.4G_Ant1_2441.4_30~1000



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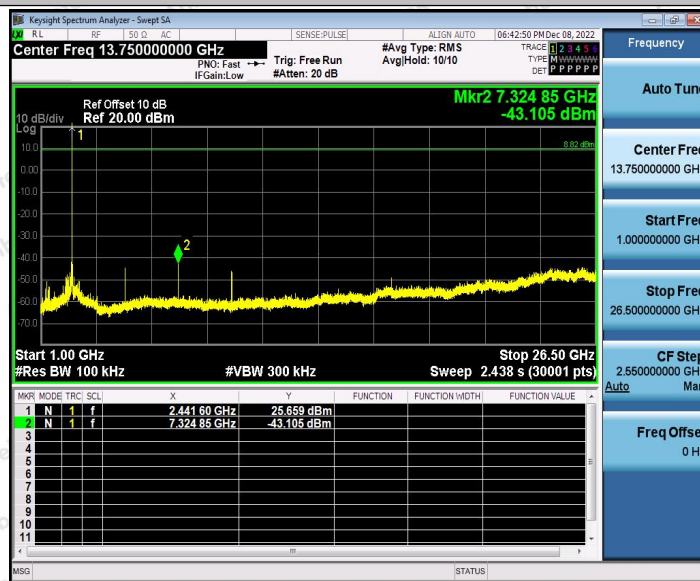
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2.4G_Ant1_2441.4_1000~26500



2.4G_Ant1_2479.4_0~Reference



2.4G_Ant1_2479.4_30~1000

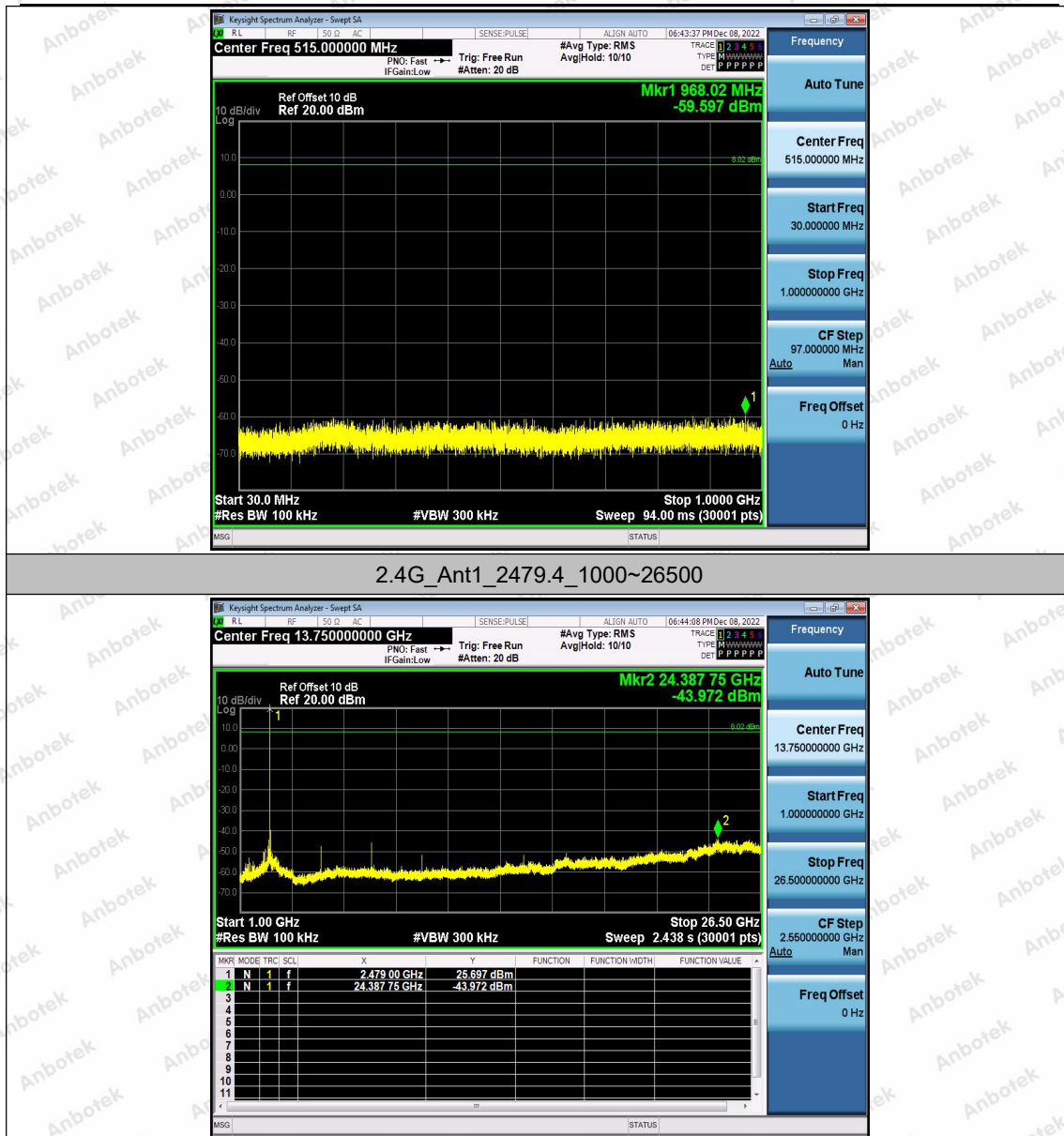
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Appendix I: Duty Cycle

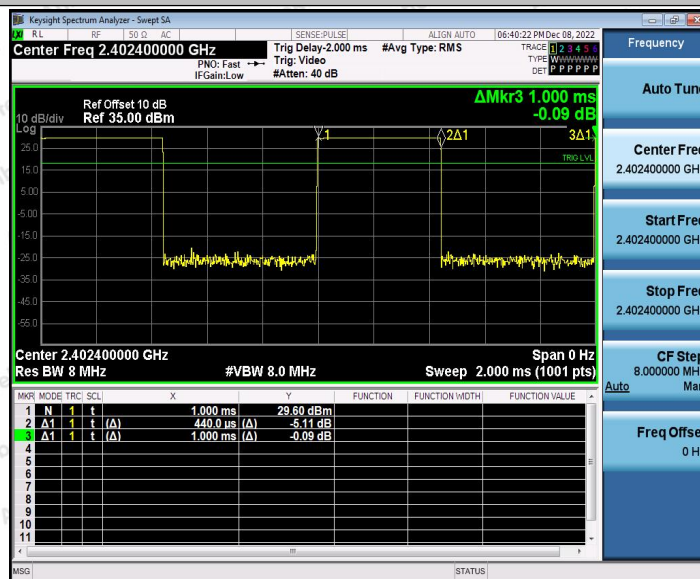
Test Result

TestMode	Antenna	Frequency[M Hz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402.4	0.44	1.00	44.00	3.57
		2441.4	0.45	1.00	45.00	3.47
		2479.4	0.44	0.99	44.44	3.52

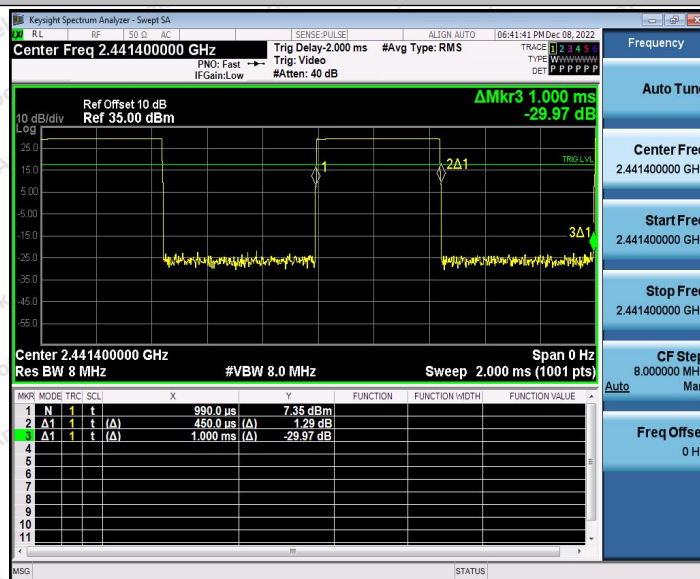


Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

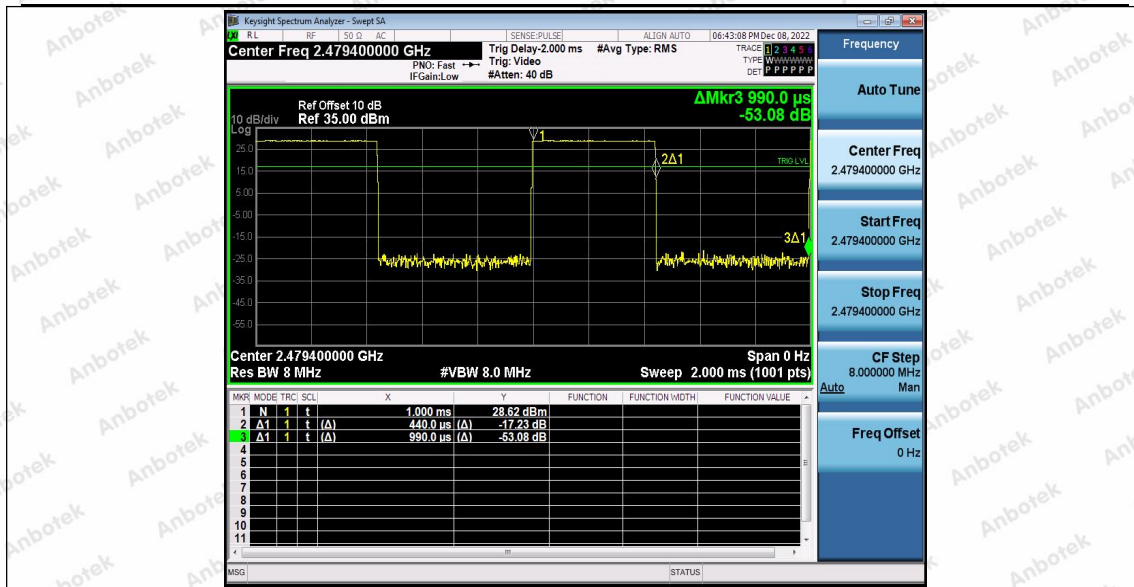
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