

Appendix Test Data

Report No.:	18220WC20267801	Test Sample No.:	1-2-2
Start Test Date:	2022.11.22	Finish Test Date:	2022.12.21
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	23.3℃	Relative Humidity:	40 %
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	2403.94	0.168	2403.865	2404.033	---	---
		2438.44	0.219	2438.335	2438.554	---	---
		2472.94	0.276	2472.838	2473.114	---	---



Test Graphs

2.4G_Ant1_2403.94



2.4G_Ant1_2438.44



2.4G_Ant1_2472.94

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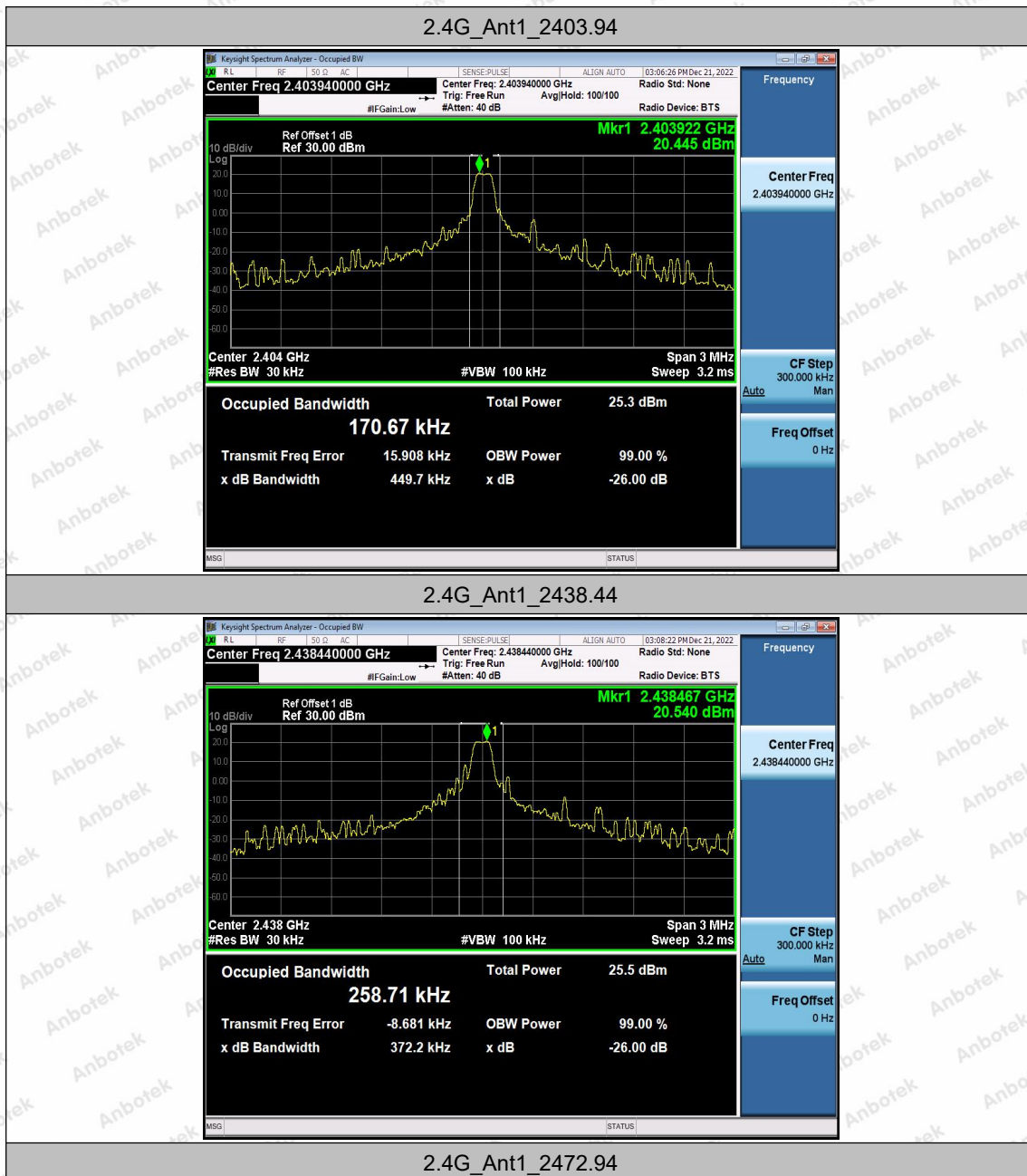
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403.94	0.17067	2403.8706	2404.0412	---	---
		2438.44	0.25871	2438.3020	2438.5607	---	---
		2472.94	0.25320	2472.8146	2473.0678	---	---



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	2403.94	20.23	≤30	PASS
		2438.44	20.3	≤30	PASS
		2472.94	20.09	≤30	PASS



Test Graphs

2.4G_Ant1_2403.94



2.4G_Ant1_2438.44



2.4G_Ant1_2472.94

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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.550	≥0.025	PASS

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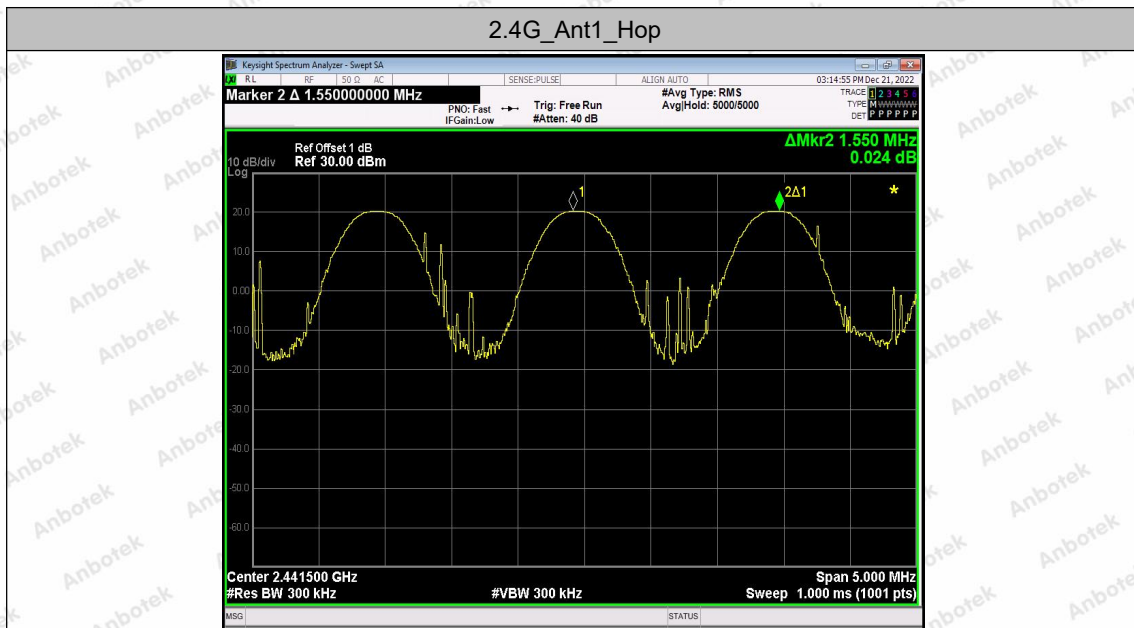
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Test Graphs



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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	6.742	34	0.229	≤0.4	PASS





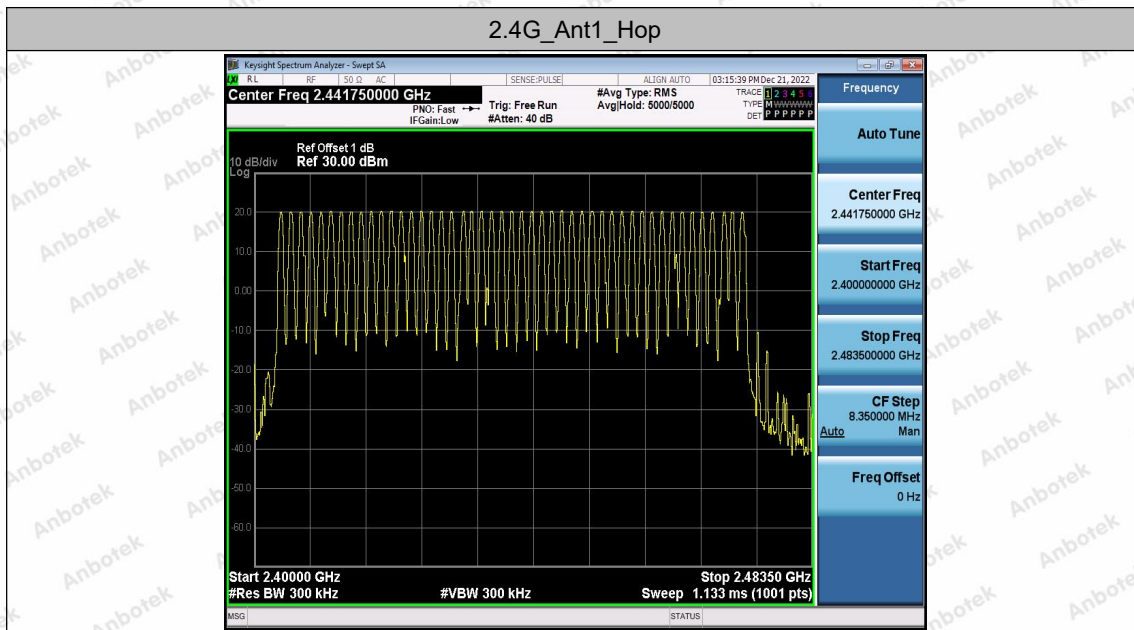
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	47	≥15	PASS



Test Graphs



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Appendix G: Band edge measurements

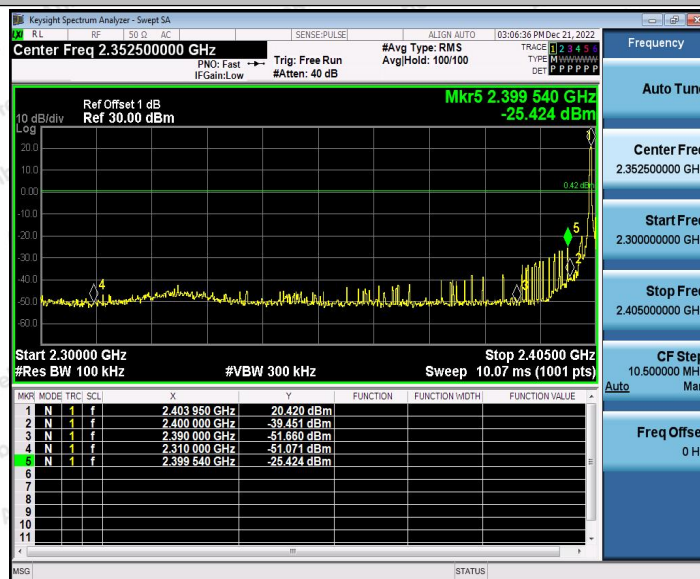
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403.94	20.42	-25.42	≤0.42	PASS
		High	2472.94	20.24	-33.68	≤0.24	PASS
		Low	Hop_2402	20.11	-36.24	≤0.11	PASS
		High	Hop_2480	20.18	-40.56	≤0.18	PASS

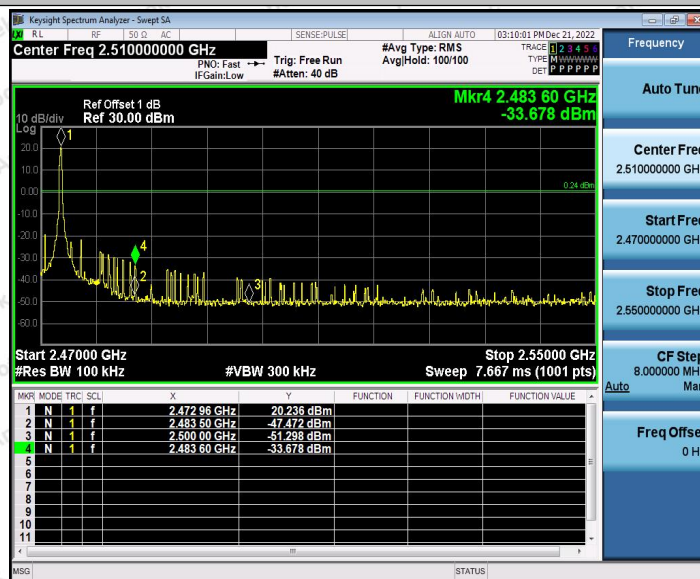


Test Graphs

2.4G_Ant1_Low_2403.94



2.4G_Ant1_High_2472.94



2.4G_Ant1_Low_Hop_2402

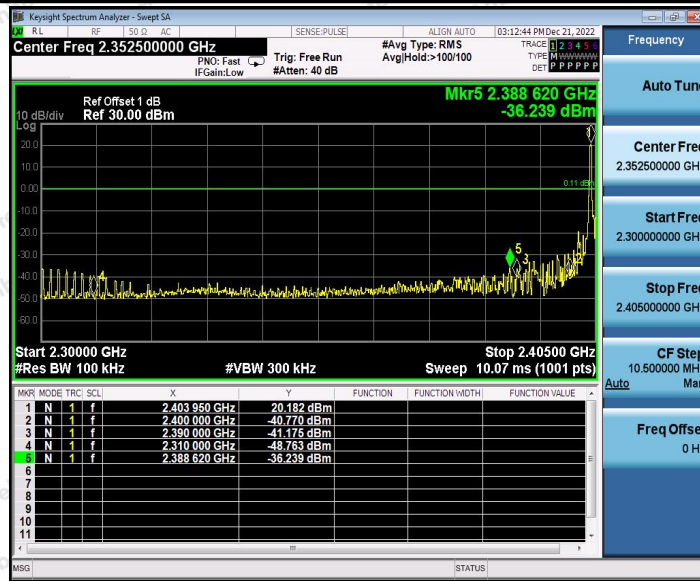
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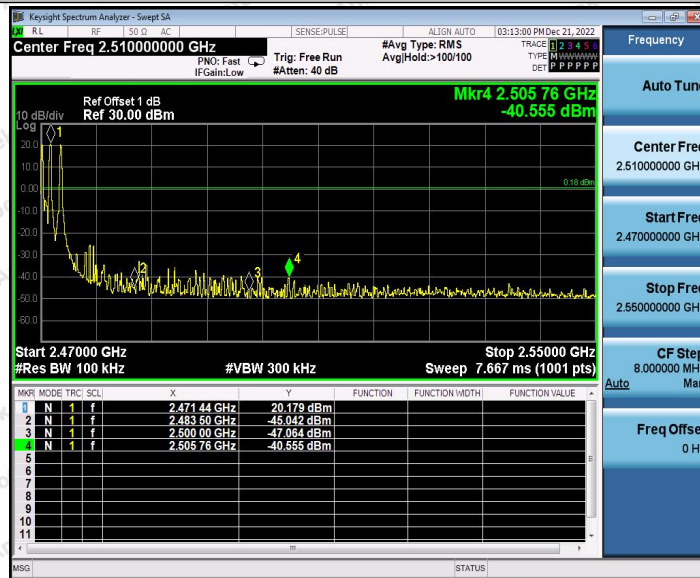


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2.4G_Ant1_High_Hop_2480

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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	2403.94	Reference	20.14	20.14	---	PASS
			30~1000	20.14	-58.13	≤0.14	PASS
			1000~26500	20.14	-18.99	≤0.14	PASS
		2438.44	Reference	20.24	20.24	---	PASS
			30~1000	20.24	-60.44	≤0.24	PASS
			1000~26500	20.24	-20.39	≤0.24	PASS
		2472.94	Reference	20.02	20.02	---	PASS
			30~1000	20.02	-59.74	≤0.02	PASS
			1000~26500	20.02	-20.1	≤0.02	PASS

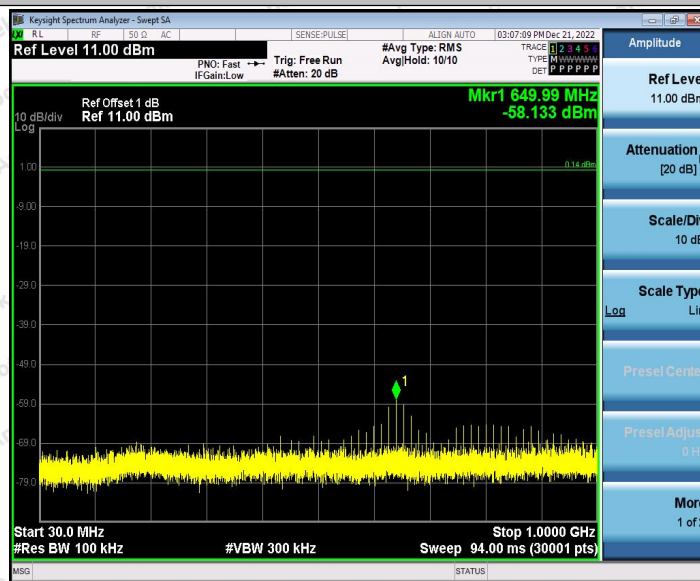


Test Graphs

2.4G_Ant1_2403.94_0~Reference



2.4G_Ant1_2403.94_30~1000



2.4G_Ant1_2403.94_1000~26500

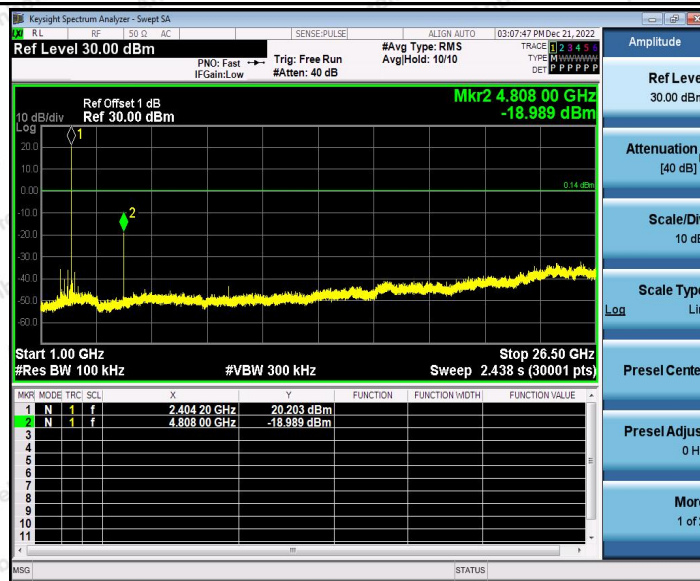
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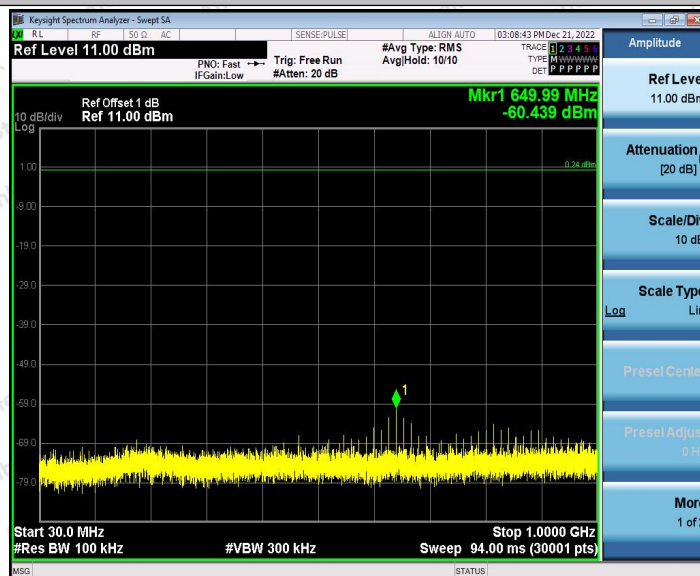




2.4G_Ant1_2438.44_0~Reference



2.4G_Ant1_2438.44_30~1000



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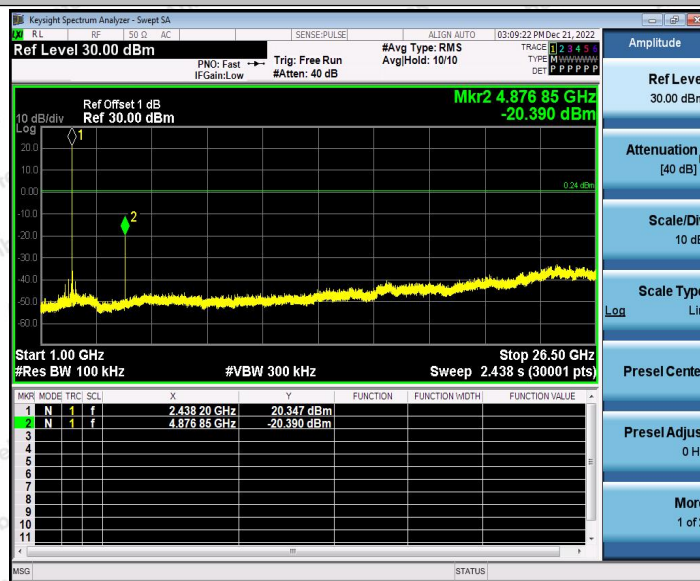
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2.4G_Ant1_2438.44_1000~26500



2.4G_Ant1_2472.94_0~Reference



2.4G_Ant1_2472.94_30~1000

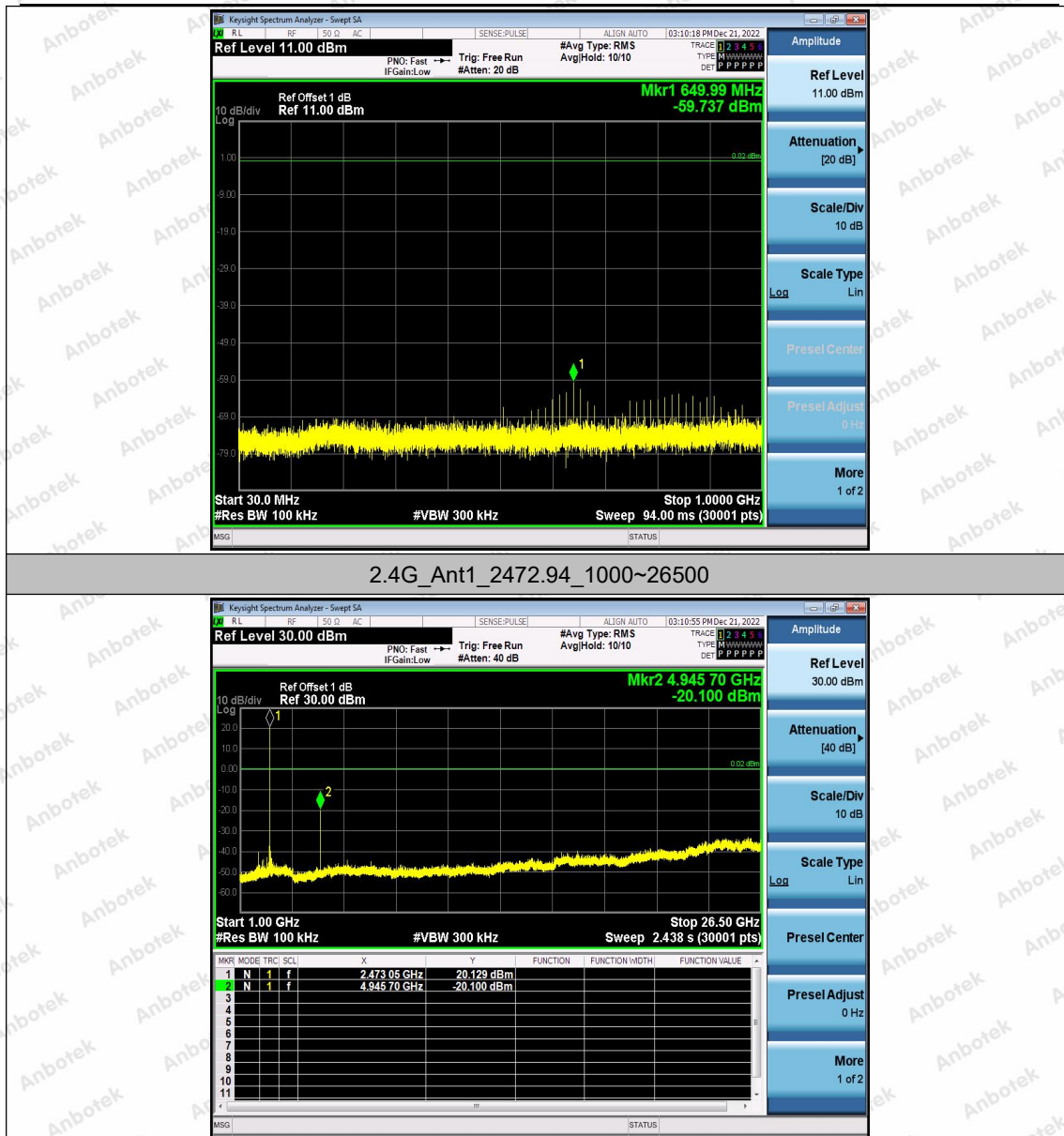
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403.94	6.74	8.98	75.06	1.25
		2438.44	6.74	8.98	75.06	1.25
		2472.94	6.74	9.00	74.89	1.26

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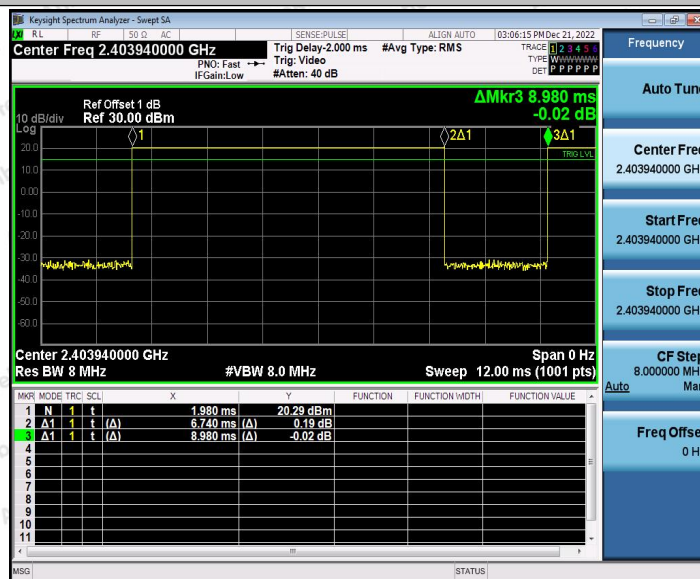


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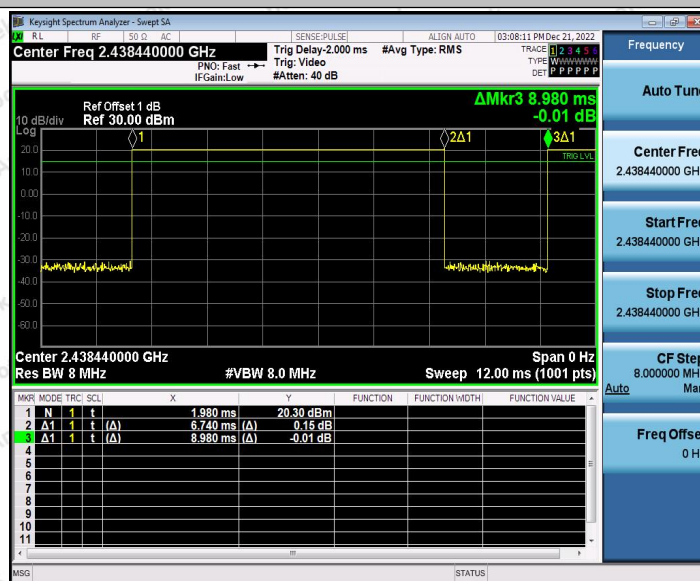


Test Graphs

2.4G_Ant1_2403.94



2.4G_Ant1_2438.44



2.4G_Ant1_2472.94

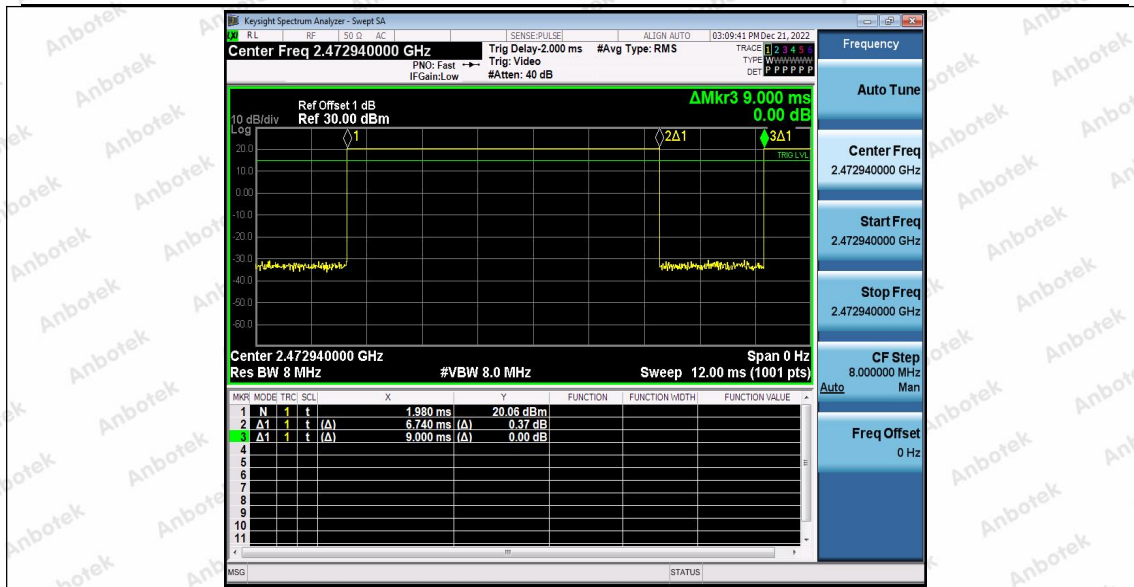
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