

Appendix Test Data

Report No.:	18220WC20268203	Test Sample No.:	1-2-2
Start Test Date:	2022.1.25	Finish Test Date:	2022.1.25
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3℃	Relative Humidity:	48 %
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	0.771	2402.013	2402.784	---	---
		2441.4	0.798	2441.001	2441.799	---	---
		2479.4	0.786	2479.010	2479.796	---	---



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	0.98087	2401.8958	2402.8766	---	---
		2441.4	0.95937	2440.9118	2441.8711	---	---
		2479.4	0.96313	2478.9077	2479.8708	---	---



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	28.51	≤30	PASS
		2441.4	28.29	≤30	PASS
		2479.4	28.27	≤30	PASS

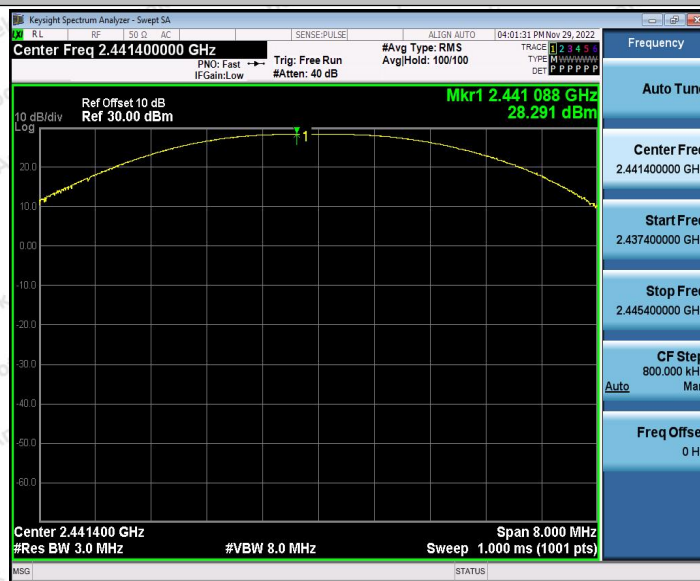


Test Graphs

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	1.004	≥0.798	PASS

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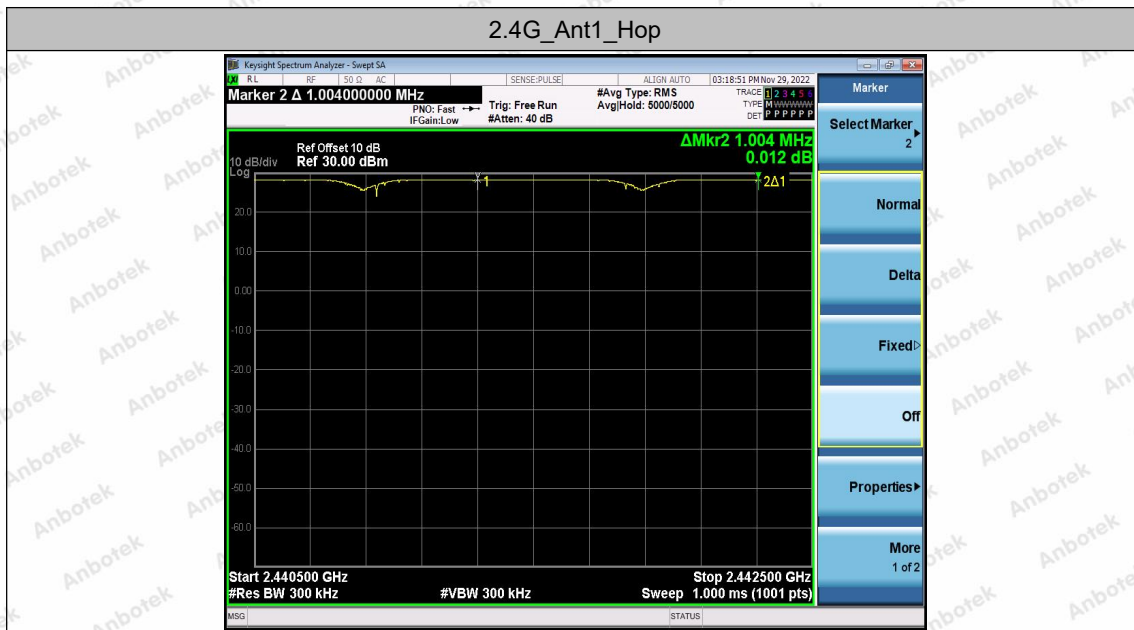
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Test Graphs



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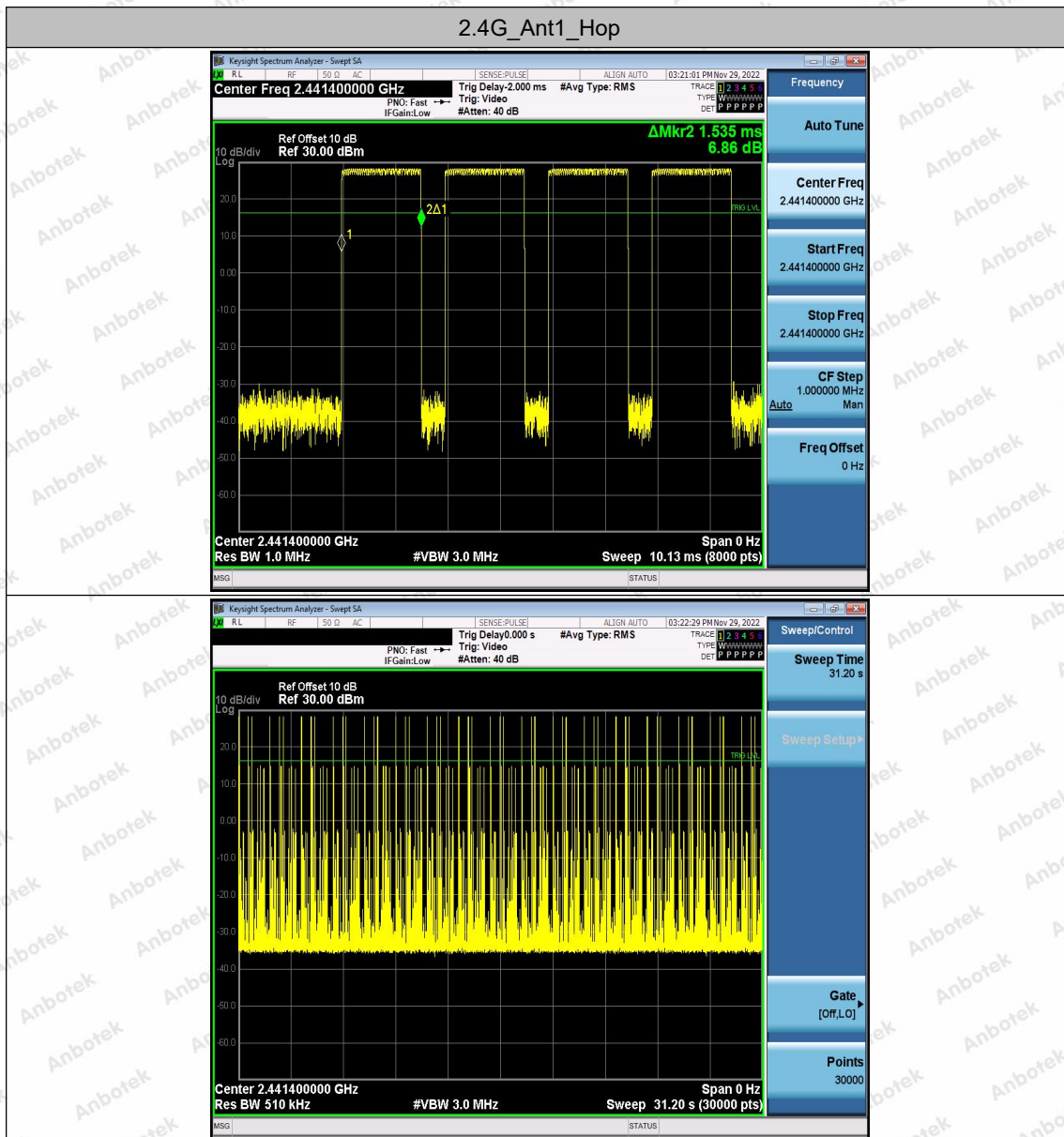
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	1.535	51	0.078	≤0.4	PASS



Test Graphs



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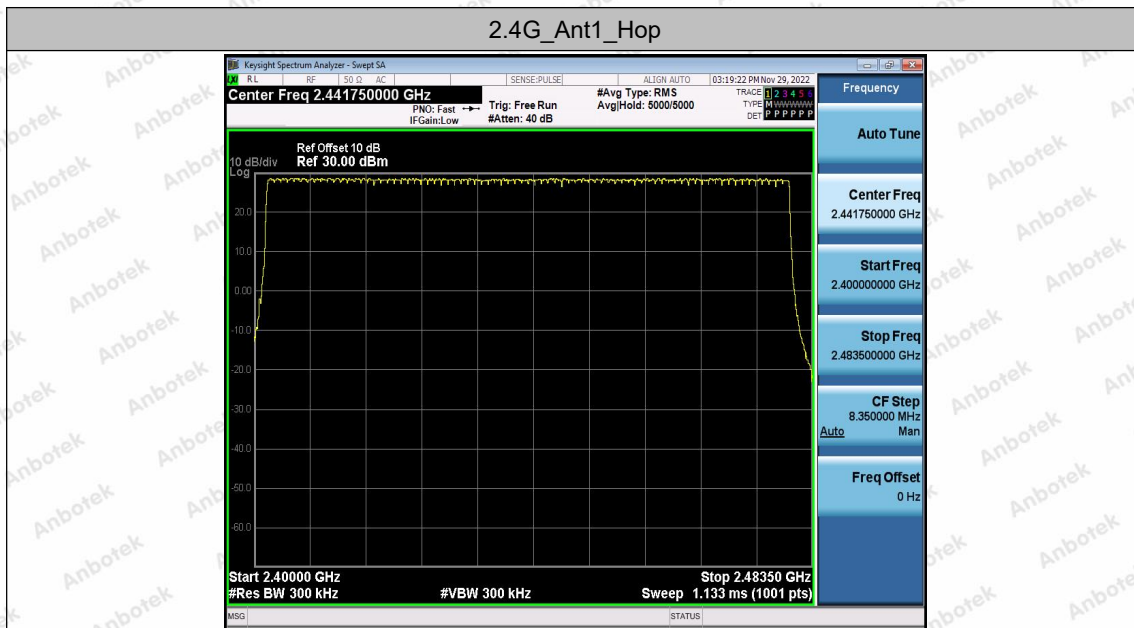
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	79	≥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	28.42	-14.27	≤8.42	PASS
		High	2479.4	28.07	-28.45	≤8.07	PASS
		Low	Hop_2402	28.30	-20.96	≤8.3	PASS
		High	Hop_2480	28.20	-19.28	≤8.2	PASS

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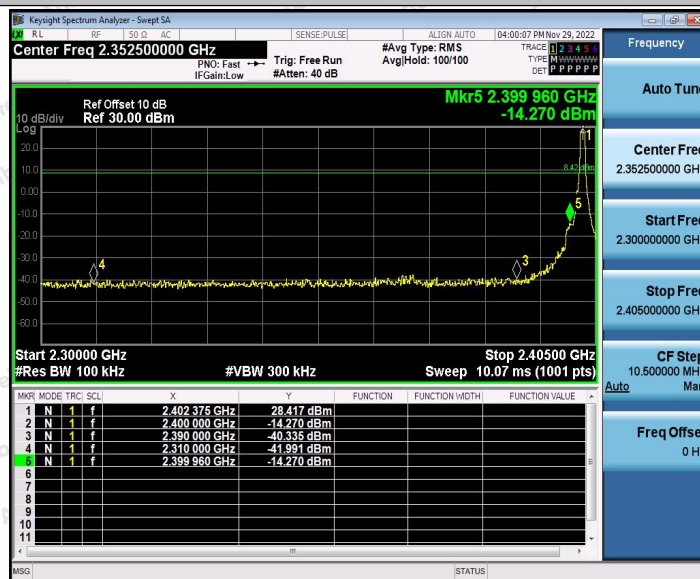


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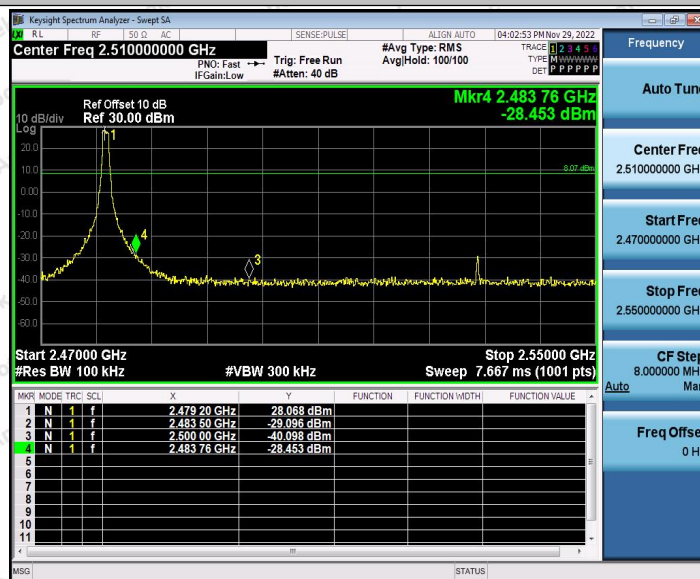


Test Graphs

2.4G_Ant1_Low_2402.4



2.4G_Ant1_High_2479.4



2.4G_Ant1_Low_Hop_2402

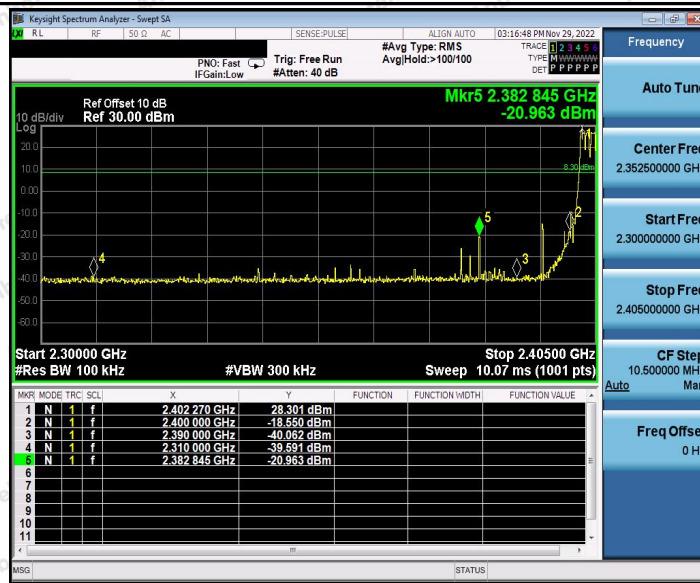
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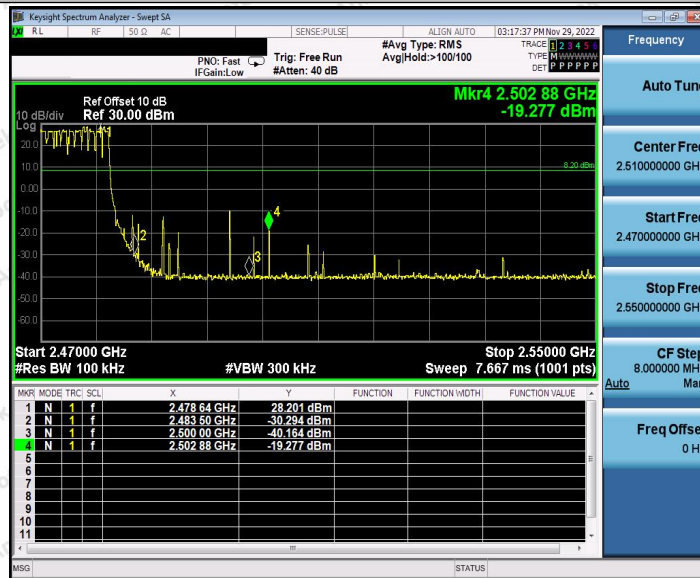


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2.4G_Ant1_High_Hop_2480



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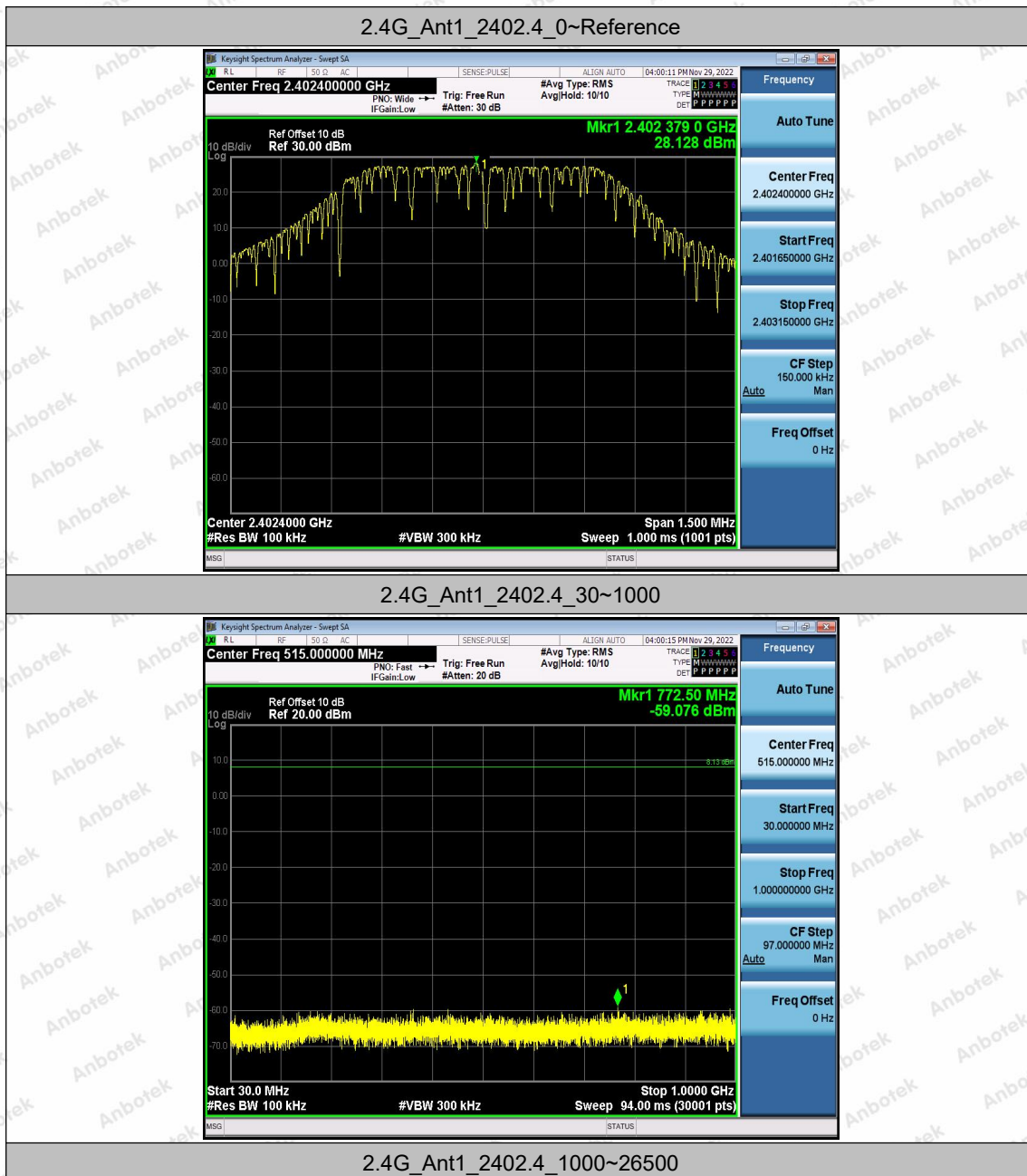
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2402.4	Reference	28.13	28.13	---	PASS
			30~1000	28.13	-59.08	≤8.13	PASS
			1000~26500	28.13	-35.61	≤8.13	PASS
		2441.4	Reference	27.76	27.76	---	PASS
			30~1000	27.76	-58.93	≤7.76	PASS
			1000~26500	27.76	-43.99	≤7.76	PASS
		2479.4	Reference	27.13	27.13	---	PASS
			30~1000	27.13	-58.85	≤7.13	PASS
			1000~26500	27.13	-43.96	≤7.13	PASS



Test Graphs



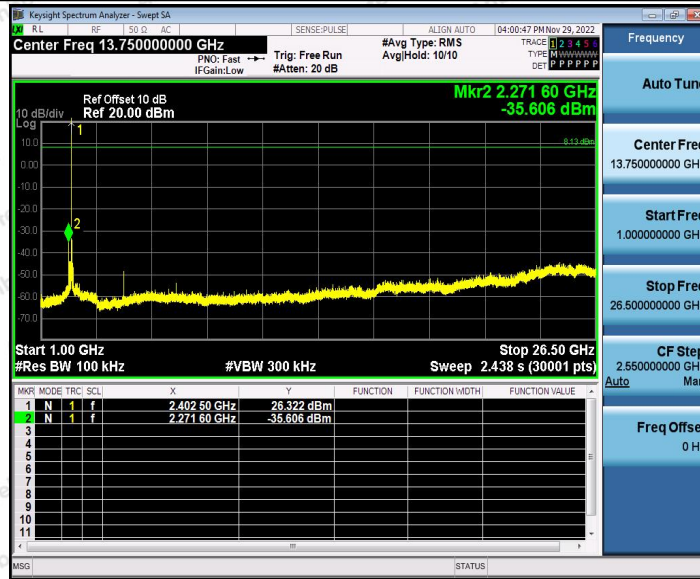
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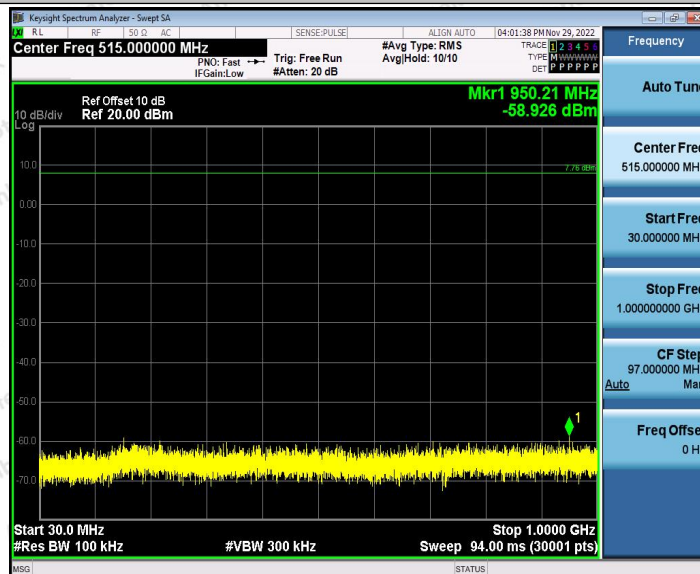




2.4G_Ant1_2441.4_0~Reference



2.4G_Ant1_2441.4_30~1000



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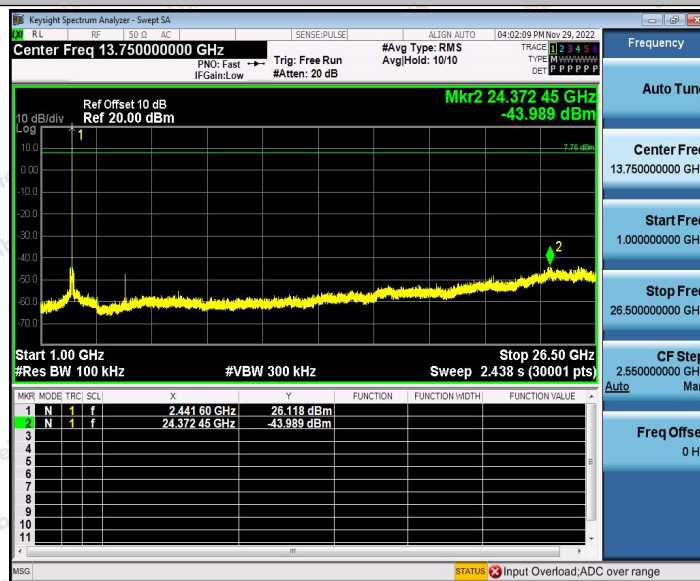
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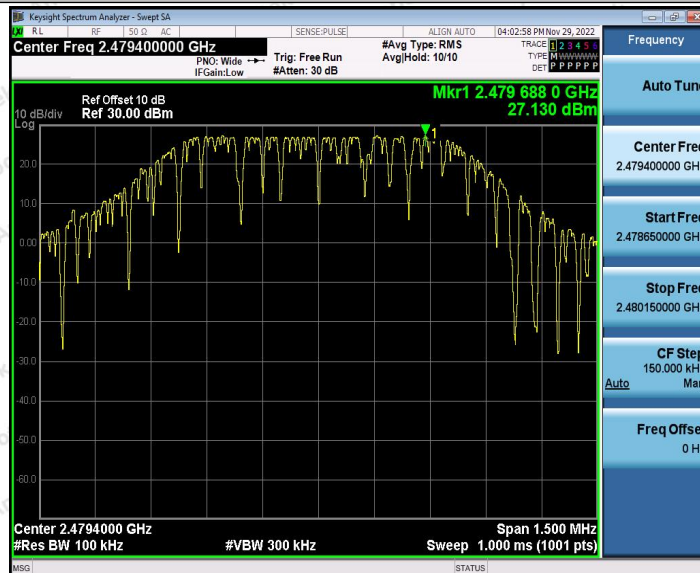
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2.4G_Ant1_2441.4_1000~26500



2.4G_Ant1_2479.4_0~Reference



2.4G_Ant1_2479.4_30~1000

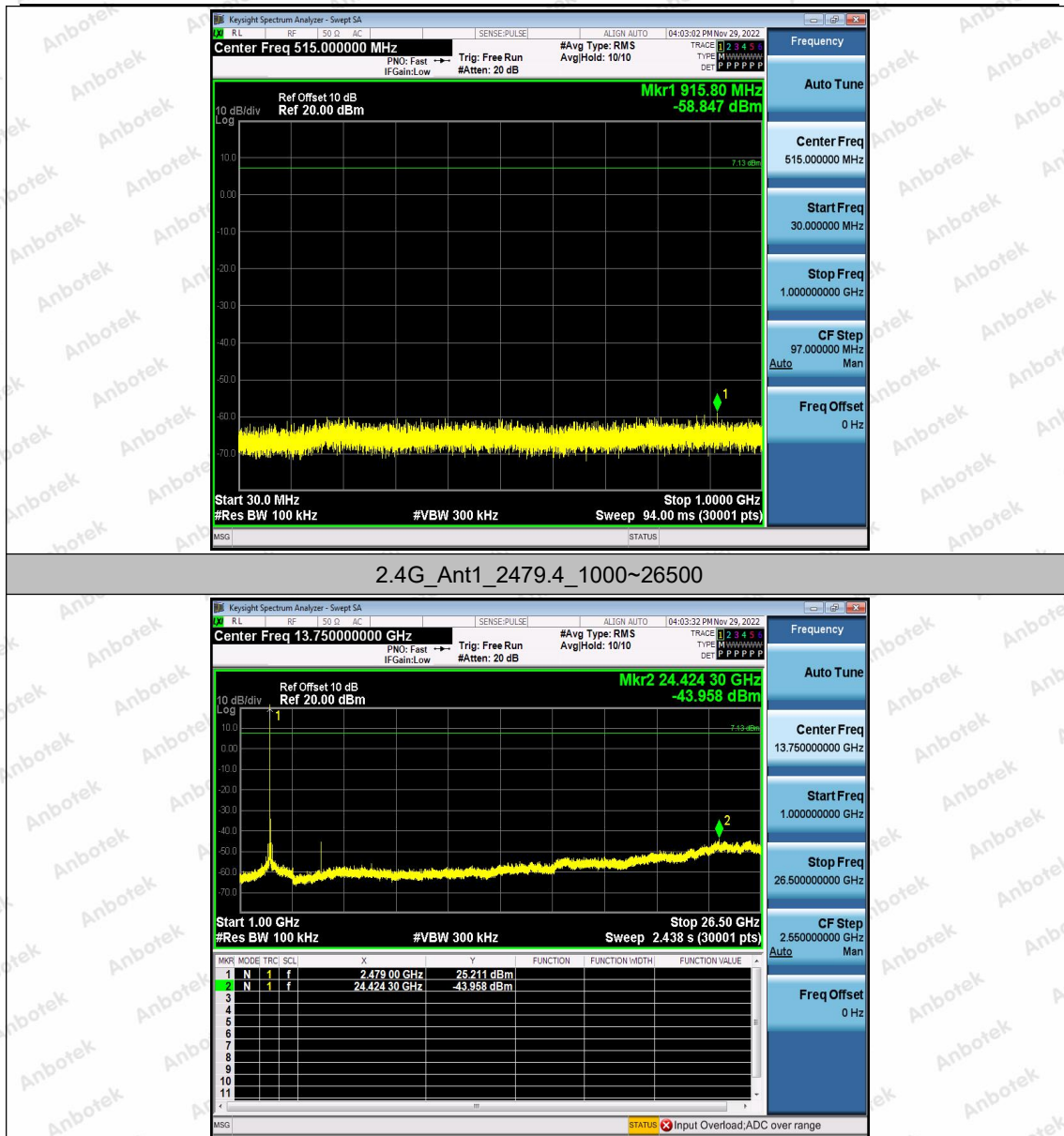
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Appendix I: Duty Cycle

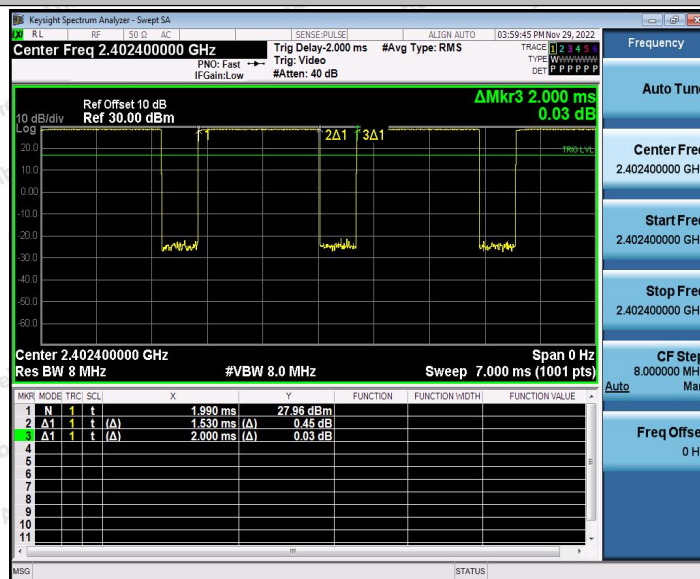
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402.4	1.53	2.00	76.50	1.16
		2441.4	1.54	2.01	76.62	1.16
		2479.4	1.53	2.00	76.50	1.16

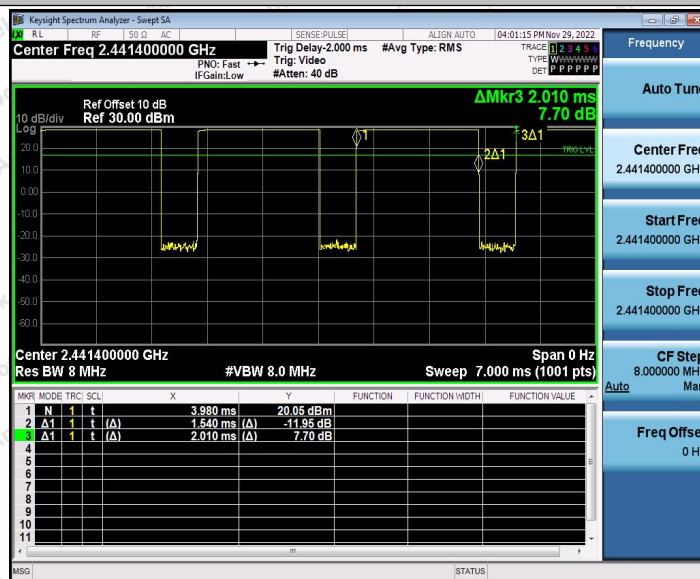


Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

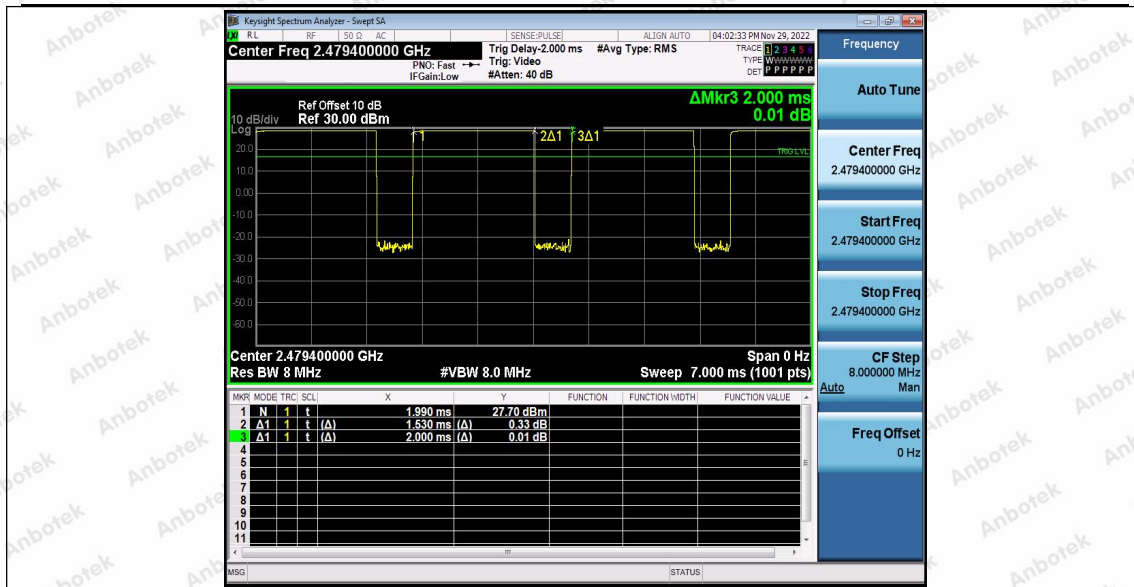
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