

Appendix Test Data

Report No.:	18220WC30076702	Test Sample No.:	1-2-2
Start Test Date:	2023.07.04	Finish Test Date:	2023.07.04
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	26.1℃	Relative Humidity:	49%
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	0.762	2402.010	2402.772	---	---
		2441.4	0.801	2440.992	2441.793	---	---
		2479.4	0.777	2479.013	2479.790	---	---



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	0.73379	2402.0334	2402.7672	---	---
		2441.4	0.73807	2441.0311	2441.7691	---	---
		2479.4	0.72983	2479.0327	2479.7625	---	---



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	24.52	≤30	PASS
		2441.4	23.5	≤30	PASS
		2479.4	24.22	≤30	PASS



Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

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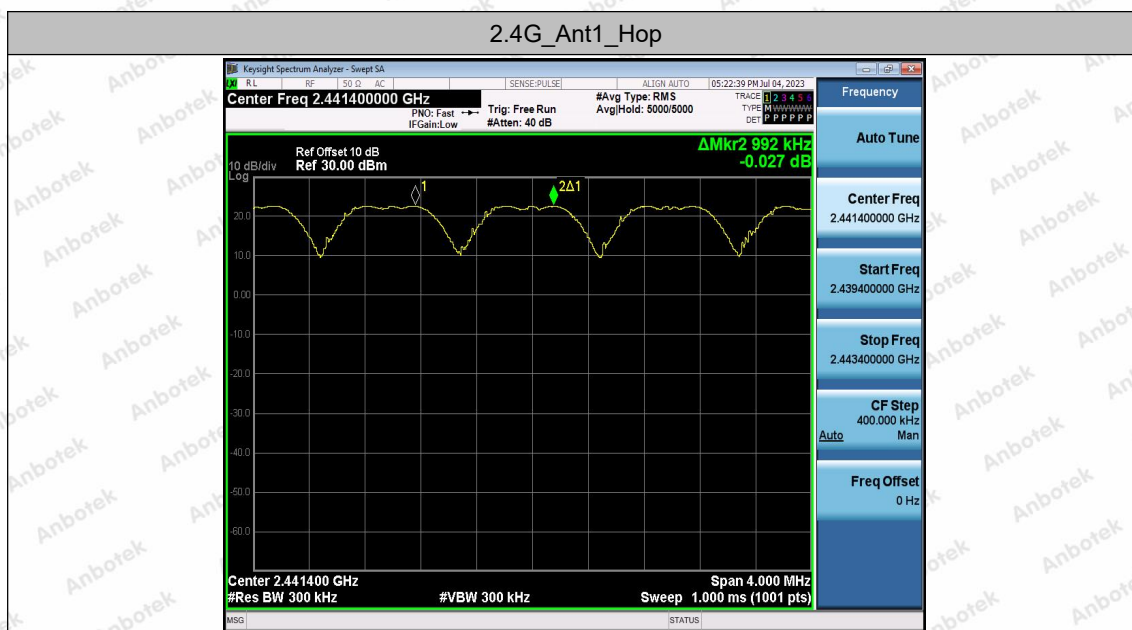
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	0.992	≥0.801	PASS



Test Graphs



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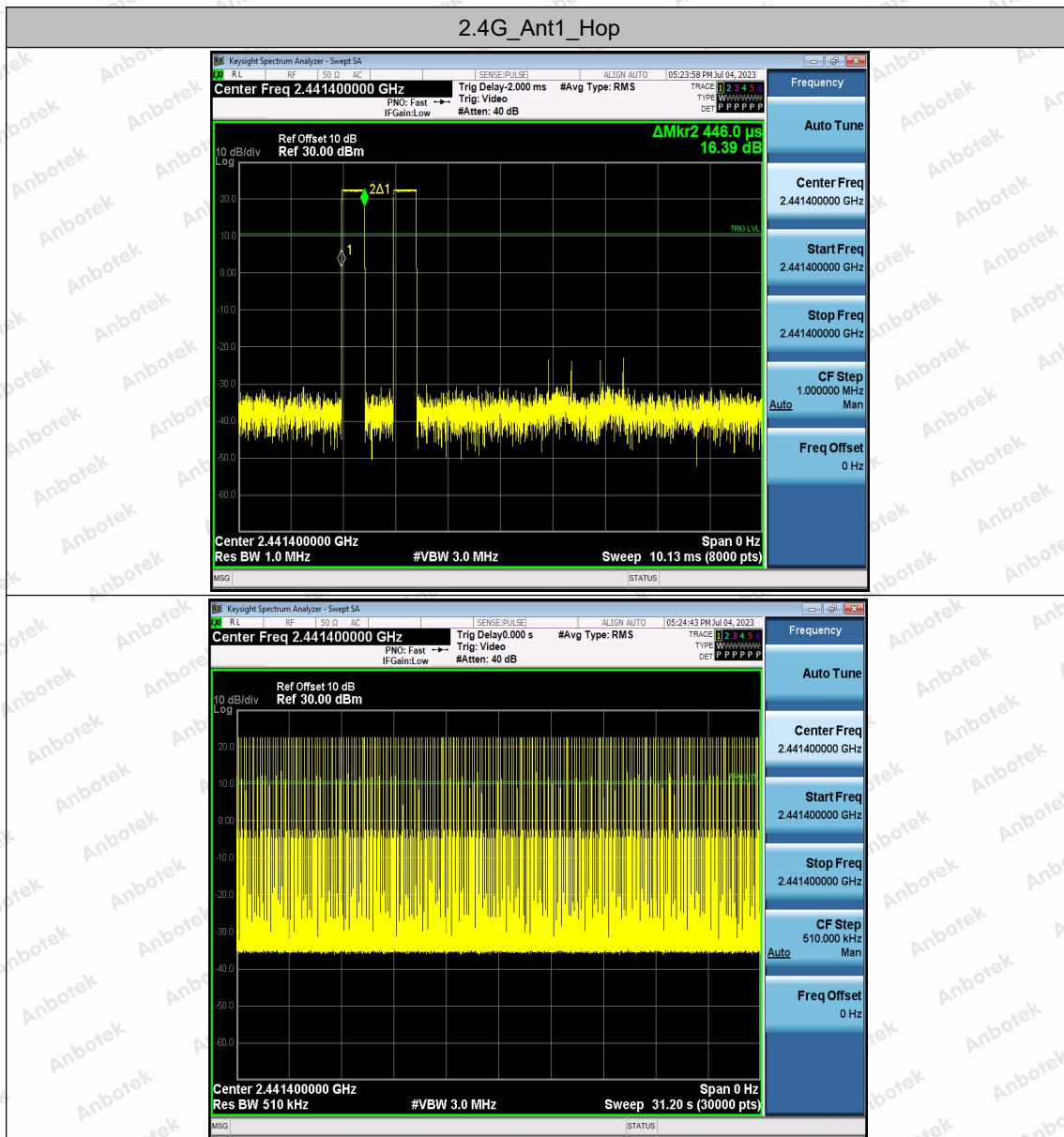
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.446	202	0.09	≤0.4	PASS



Test Graphs



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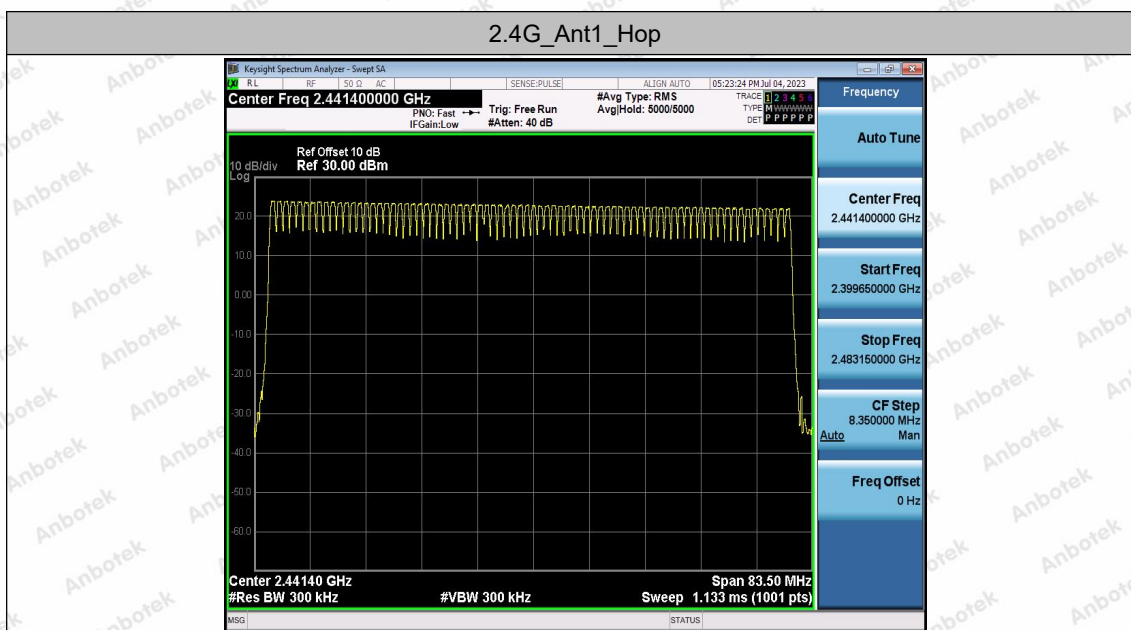
Appendix F: Number of hopping channels

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	25.73	-34.99	≤5.73	PASS
		High	2479.4	24.07	-36.82	≤4.07	PASS
		Low	Hop_2402.4	23.64	-38.15	≤3.64	PASS
		High	Hop_2479.4	21.33	-38.06	≤1.33	PASS

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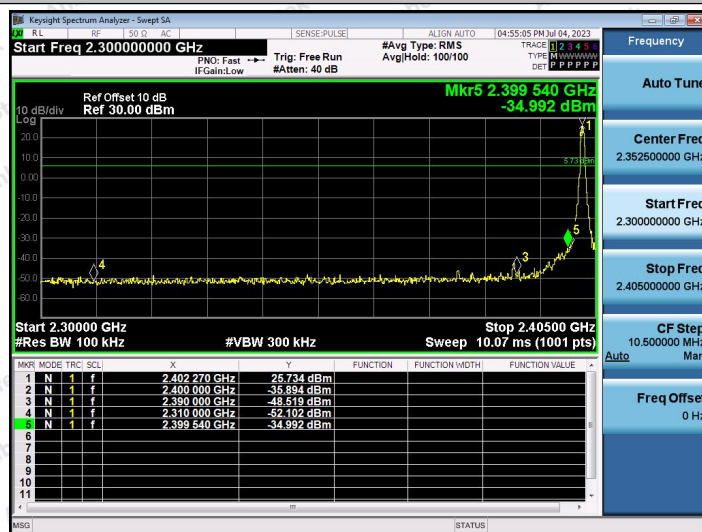


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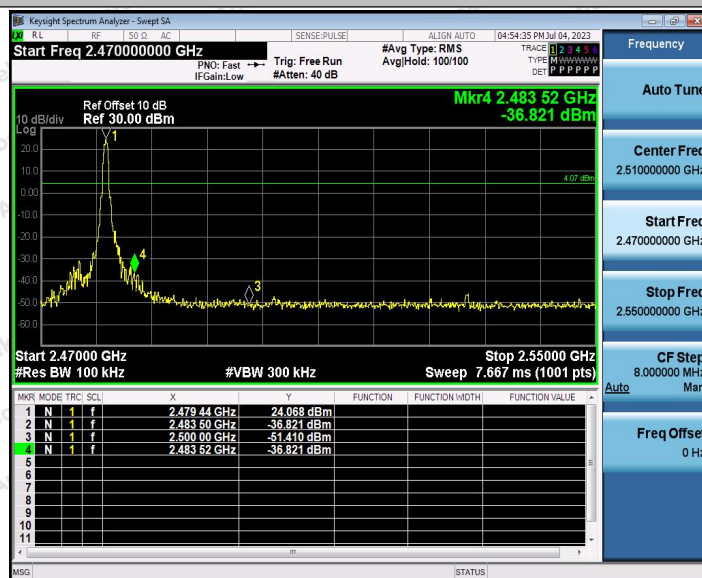


Test Graphs

2.4G_Ant1_Low_2402.4



2.4G_Ant1_High_2479.4



2.4G_Ant1_Low_Hop_2402.4

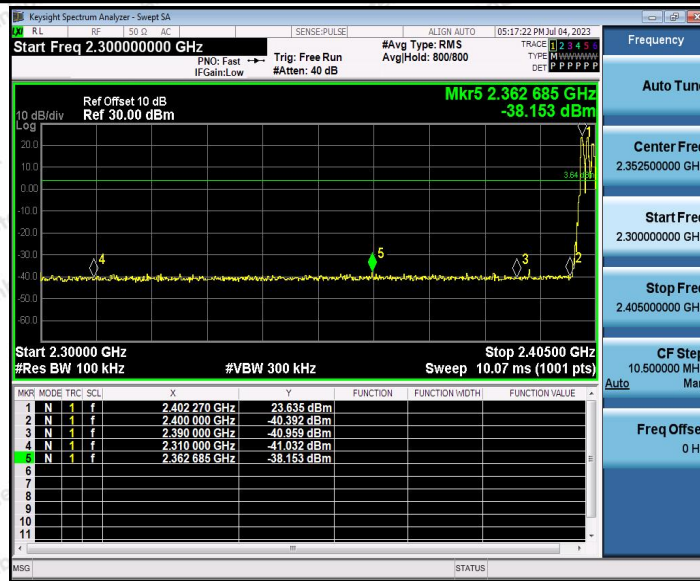
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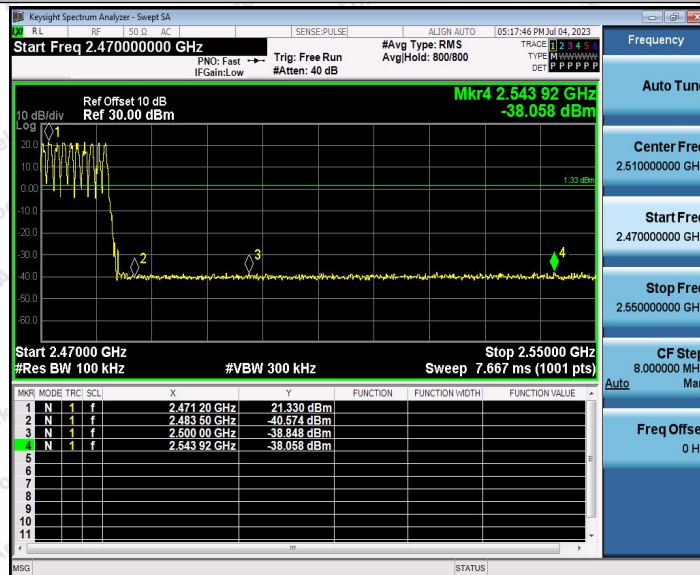


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2.4G_Ant1_High_Hop_2479.4



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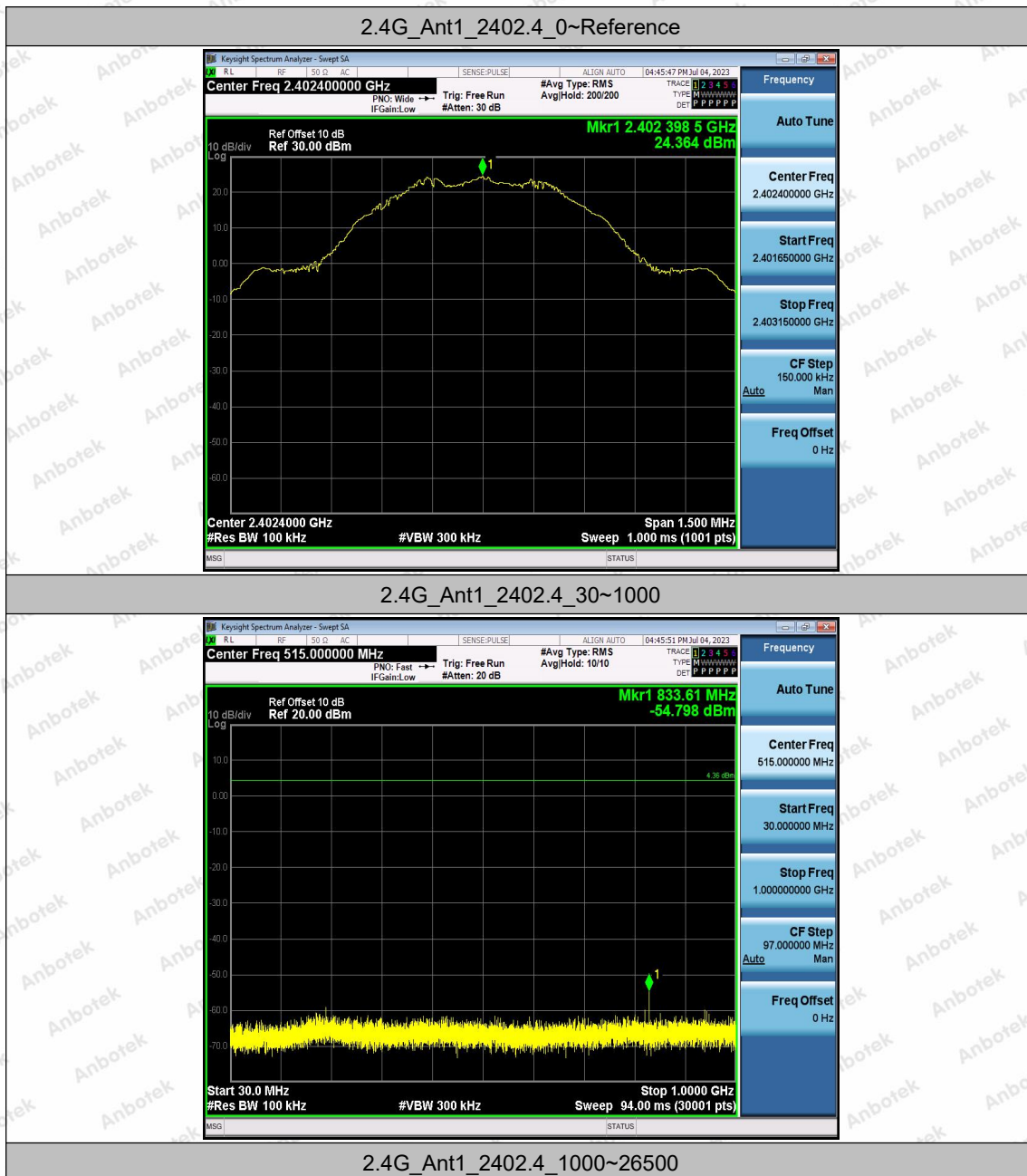
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2402.4	Reference	24.36	24.36	---	PASS
			30~1000	24.36	-54.8	≤4.36	PASS
			1000~26500	24.36	-24.84	≤4.36	PASS
		2441.4	Reference	23.35	23.35	---	PASS
			30~1000	23.35	-60.19	≤3.35	PASS
			1000~26500	23.35	-24.14	≤3.35	PASS
		2479.4	Reference	24.10	24.10	---	PASS
			30~1000	24.10	-59.58	≤4.1	PASS
			1000~26500	24.10	-30.51	≤4.1	PASS



Test Graphs



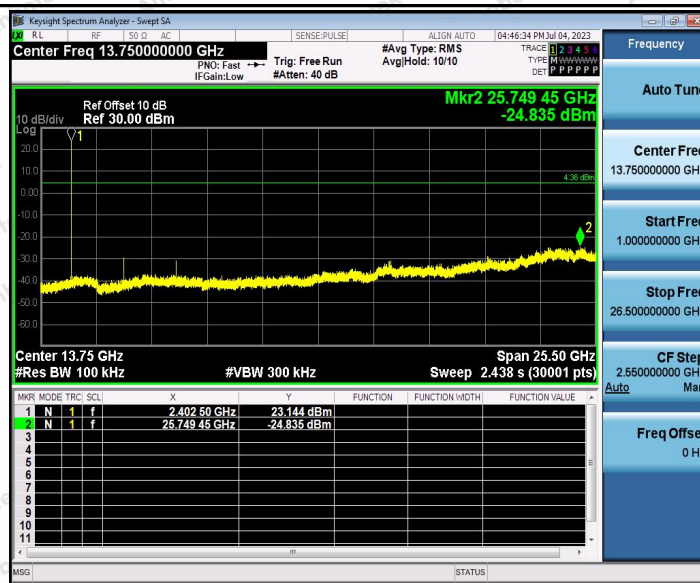
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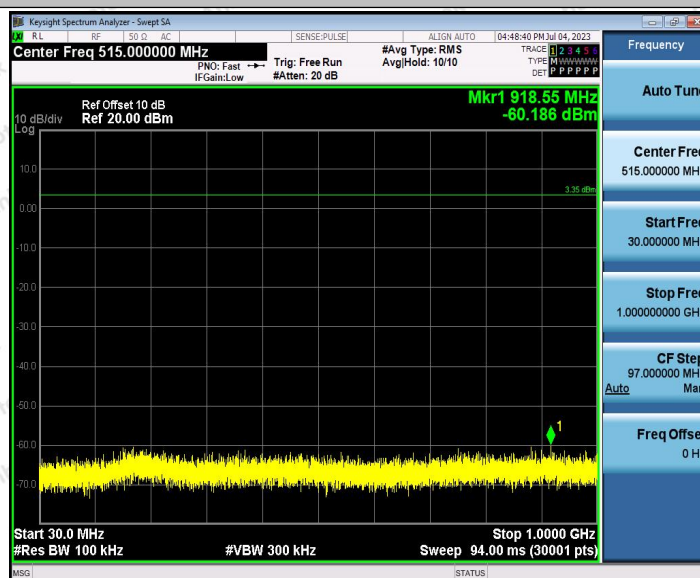




2.4G_Ant1_2441.4_0~Reference



2.4G_Ant1_2441.4_30~1000



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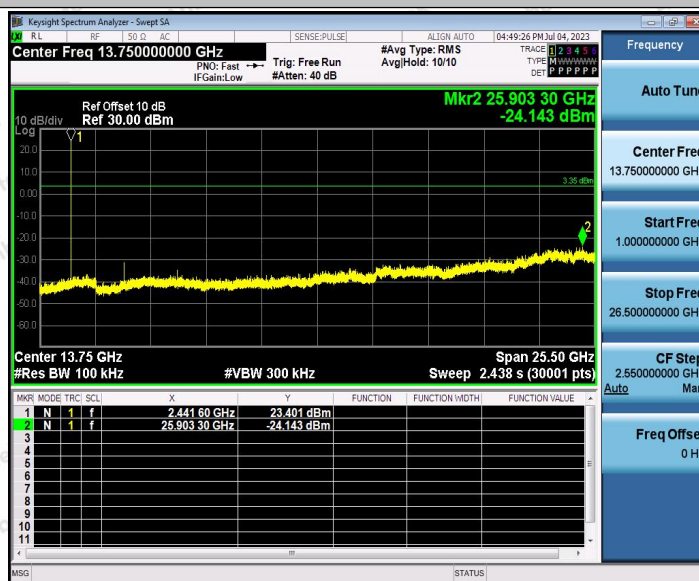
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2.4G_Ant1_2441.4_1000~26500



2.4G_Ant1_2479.4_0~Reference



2.4G_Ant1_2479.4_30~1000

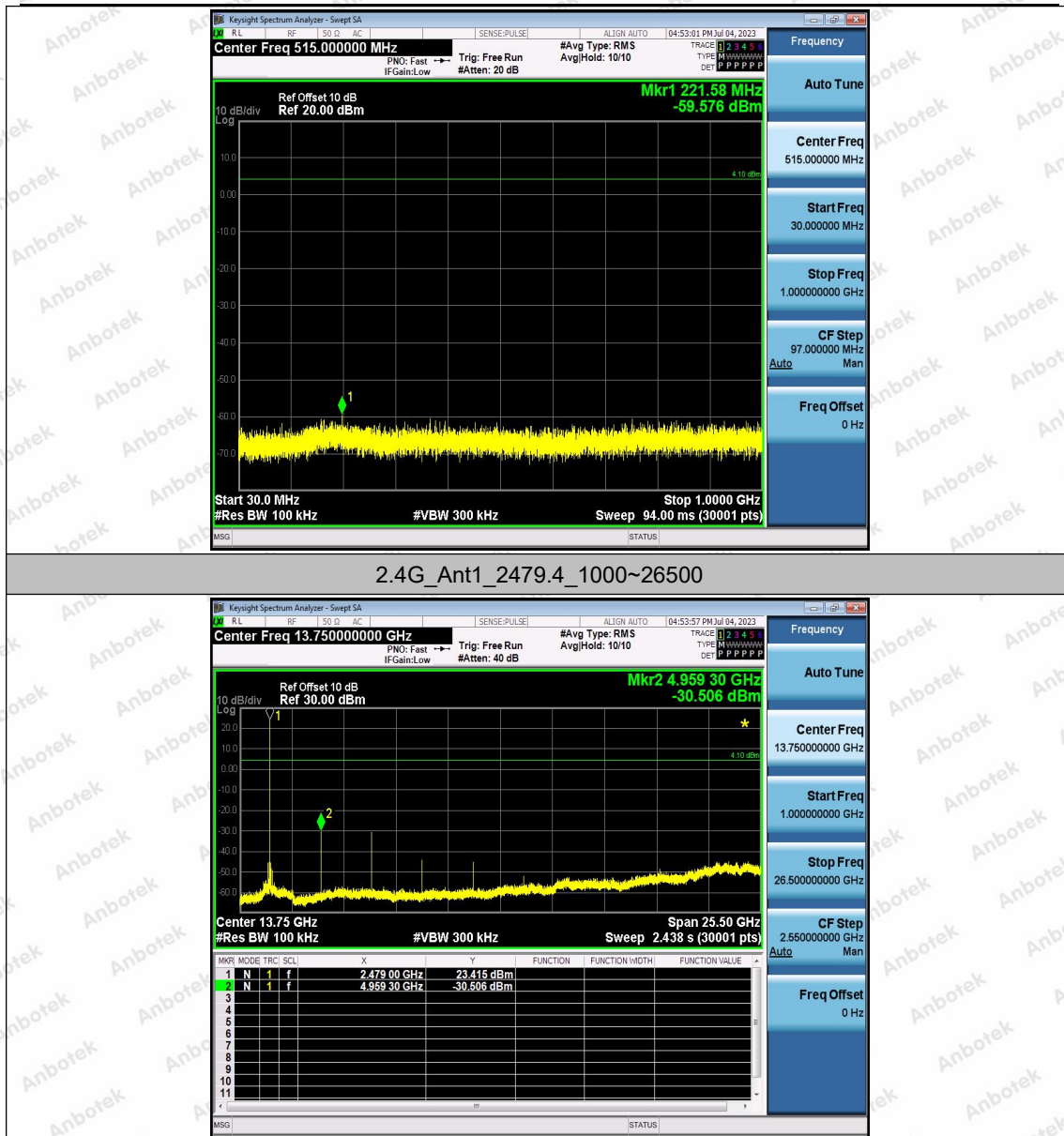
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Appendix I: Duty Cycle

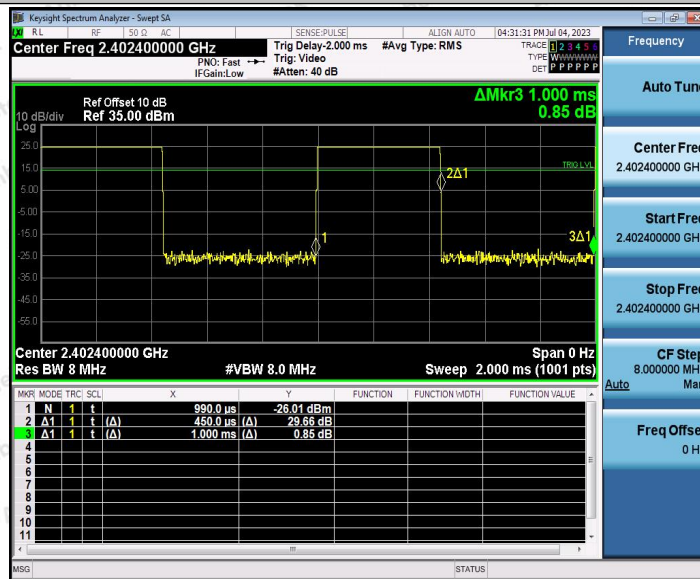
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402.4	0.45	1.00	45.00	3.47
		2441.4	0.45	1.00	45.00	3.47
		2479.4	0.45	1.00	45.00	3.47

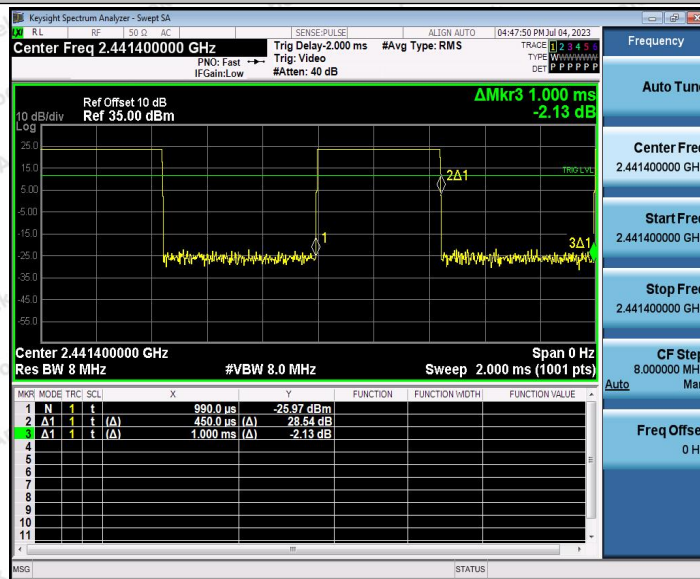


Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

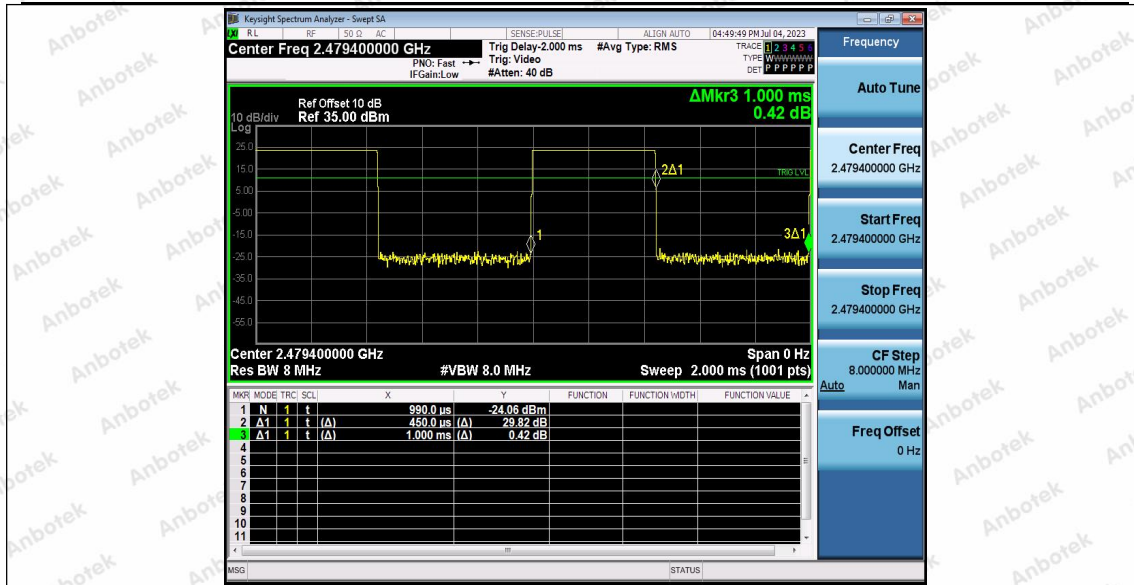
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