

Appendix Test Data

Report No.:	18220WC30163601	Test Sample No.:	1-2-2
Start Test Date:	2023.08.03	Finish Test Date:	2023.08.21
Test Engineer:	Hayman Chen	Auditor:	RICK Luo
Temperature:	25.2°C	Relative Humidity:	48%
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	2403	2.286	2401.890	2404.176
		2441	2.274	2439.890	2442.164
		2480	2.262	2478.896	2481.158

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Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2480

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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	2403	2.1993	2401.8975	2404.0968
		2441	2.1663	2439.9246	2442.0909
		2480	2.1567	2478.9346	2481.0913

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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	0.21	≤30	PASS
		2441	0.10	≤30	PASS
		2480	-0.01	≤30	PASS

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Test Graphs

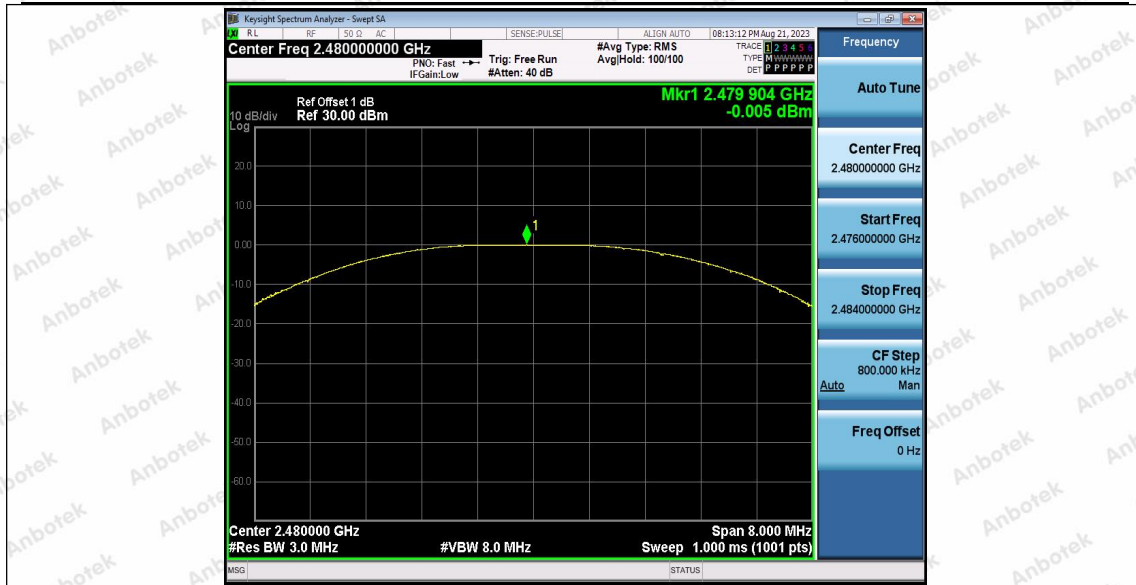


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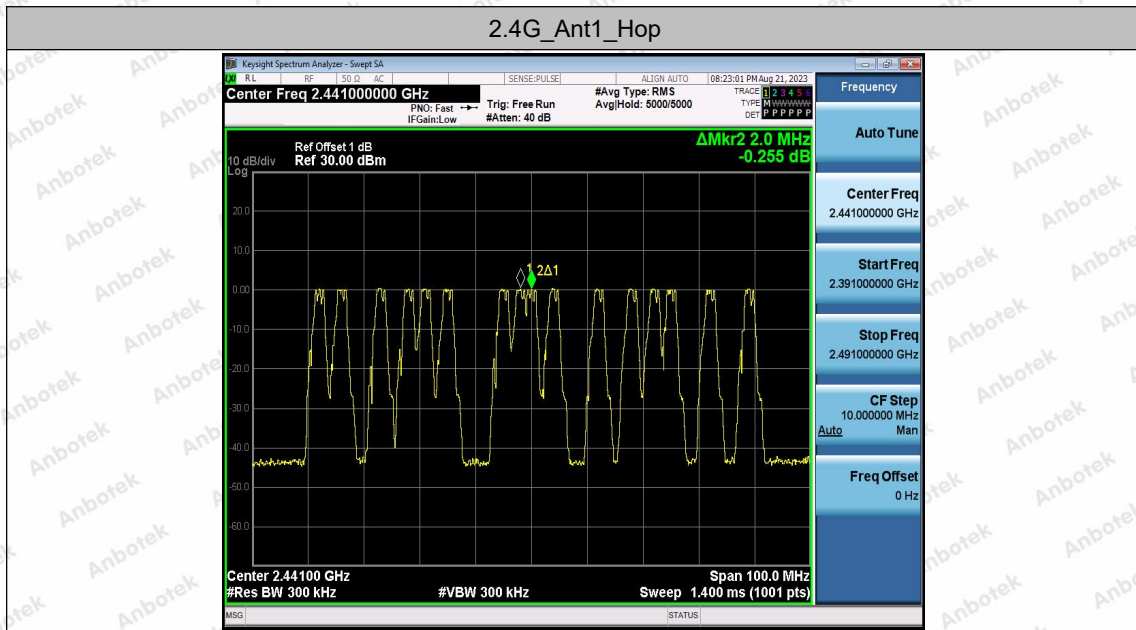


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	2.000	≥1.524	PASS

Test Graphs

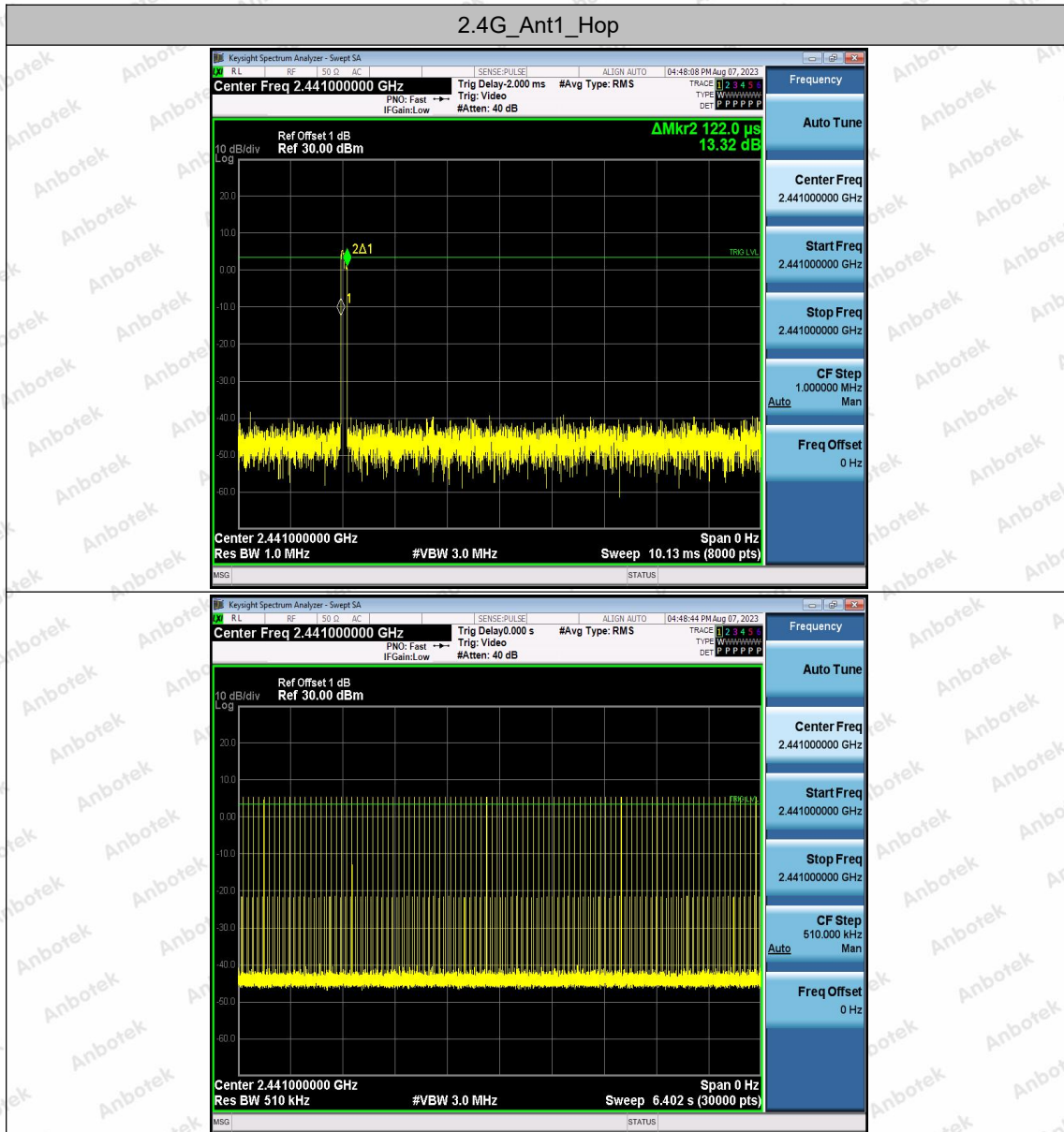


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.122	101	0.012	≤0.4	PASS

Test Graphs



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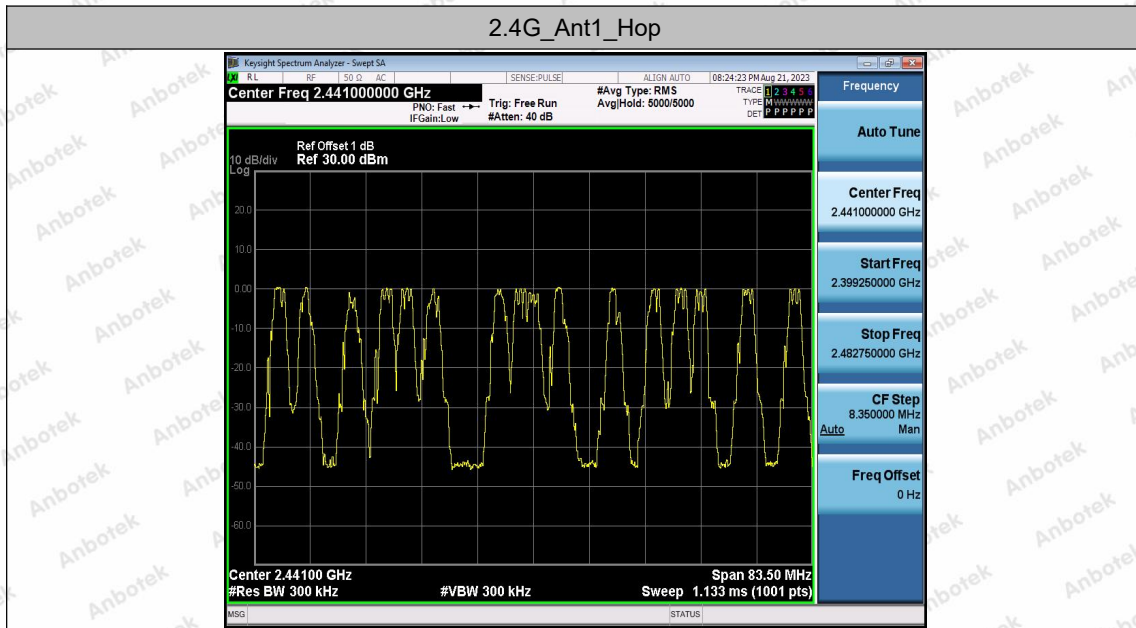


Appendix F: Number of hopping channels

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	2403	-0.87	-54.81	≤-20.87	PASS
		High	2480	-0.08	-56.70	≤-20.08	PASS
		Low	Hop_2403	-0.41	-52.94	≤-20.41	PASS
		High	Hop_2480	-0.19	-56.30	≤-20.19	PASS

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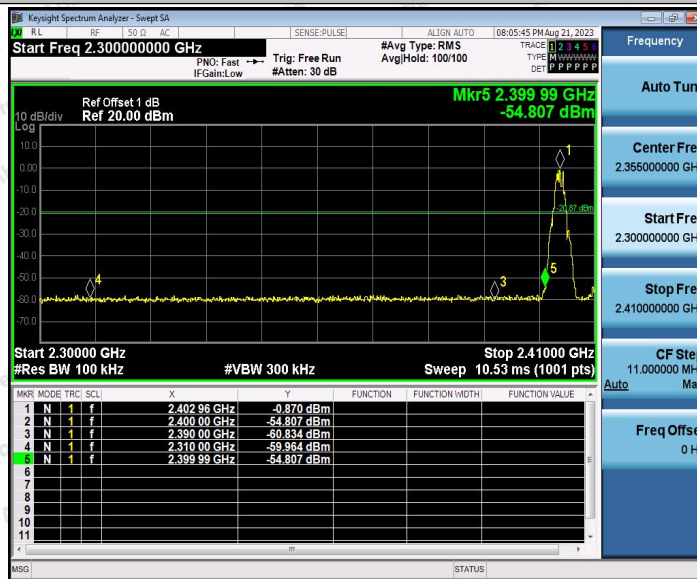


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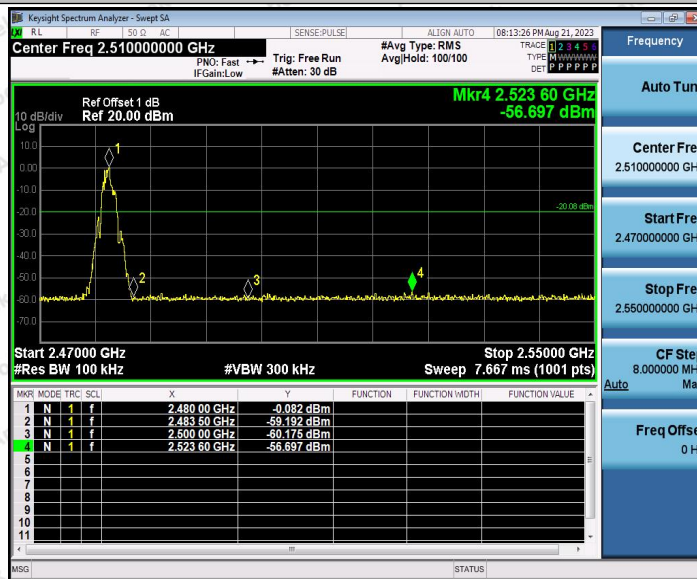


Test Graphs

2.4G_Ant1_Low_2403



2.4G_Ant1_High_2480



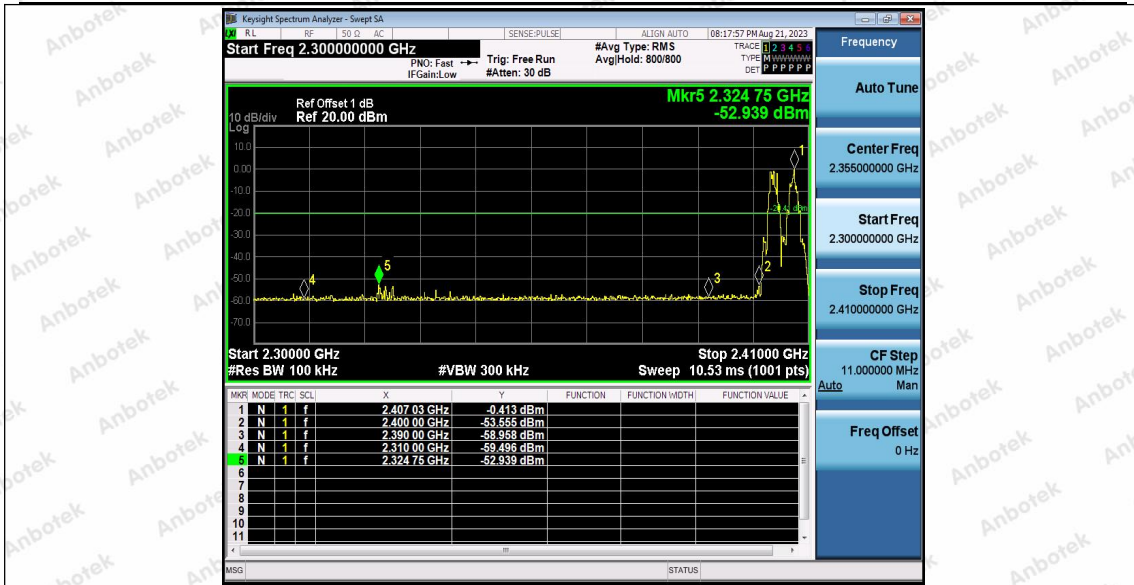
2.4G_Ant1_Low_Hop_2403

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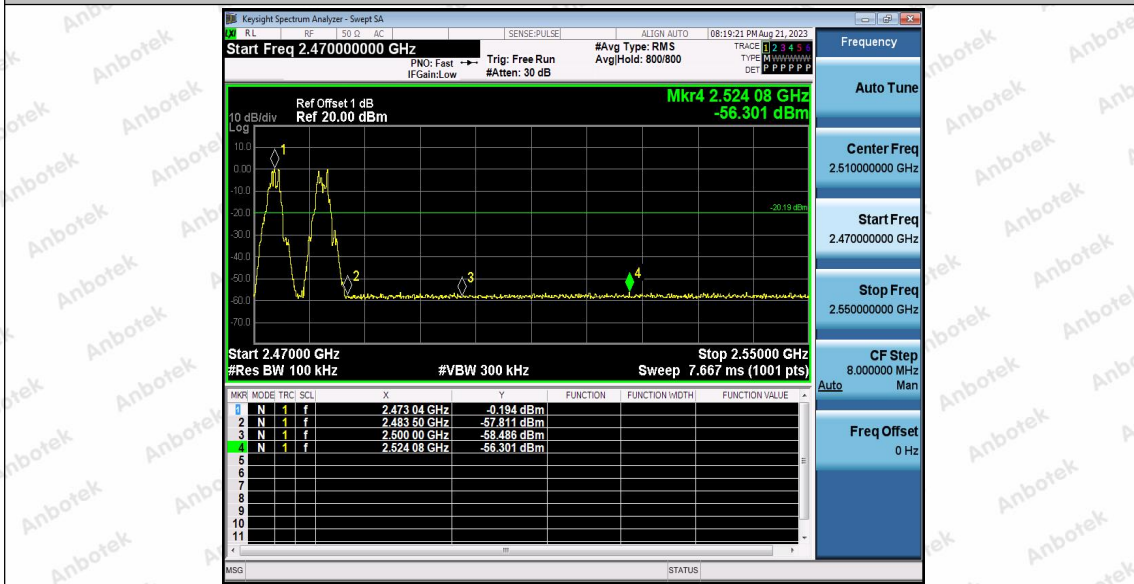
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2.4G_Ant1_High_Hop_2480



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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	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-67.97	≤-19.96	PASS
			1000~26500	0.04	-41.92	≤-19.96	PASS
		2441	Reference	-0.08	-0.08	---	PASS
			30~1000	-0.08	-67.62	≤-20.08	PASS
			1000~26500	-0.08	-37.28	≤-20.08	PASS
		2480	Reference	-0.18	-0.18	---	PASS
			30~1000	-0.18	-68.95	≤-20.18	PASS
			1000~26500	-0.18	-45.67	≤-20.18	PASS

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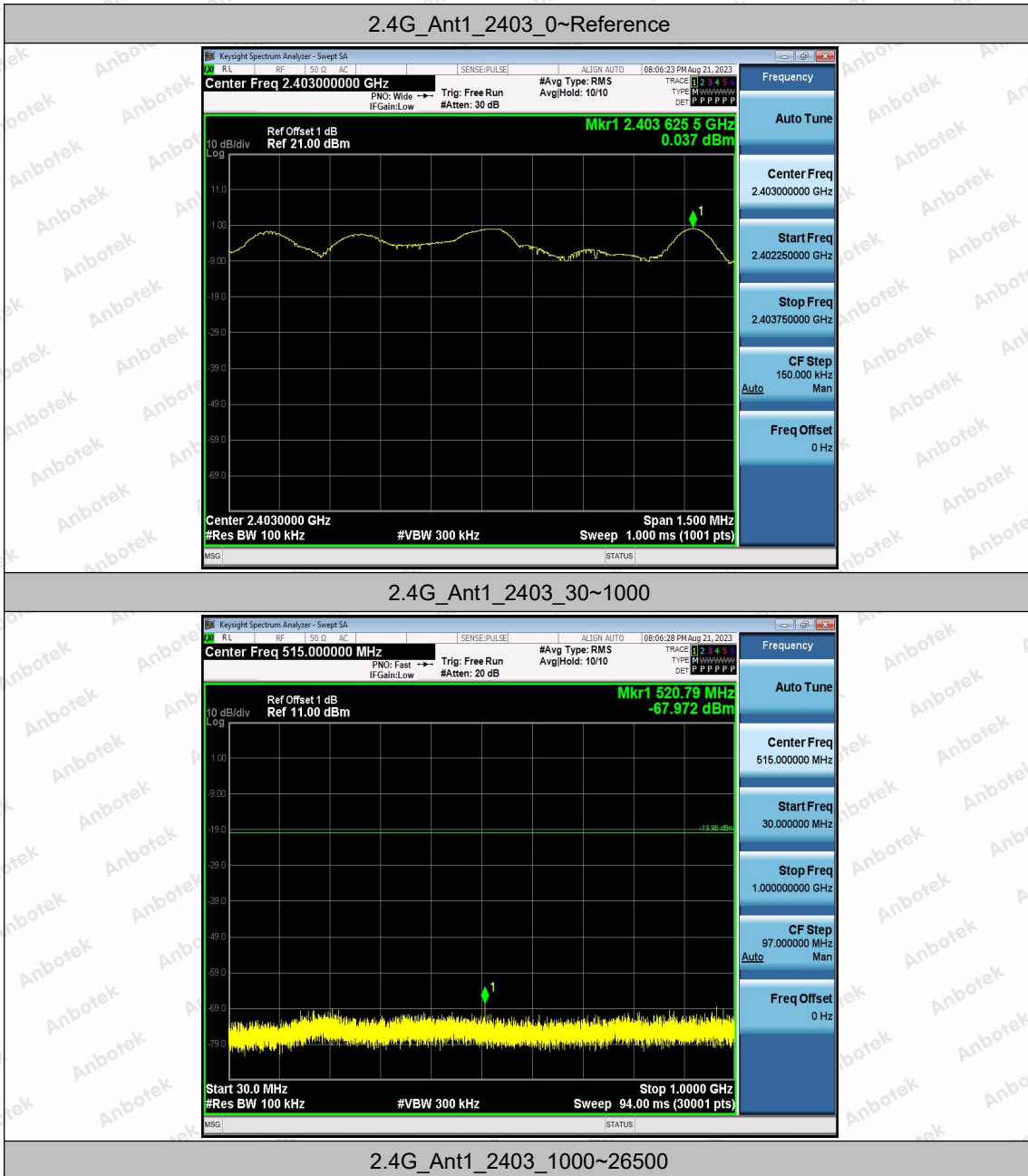
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Test Graphs

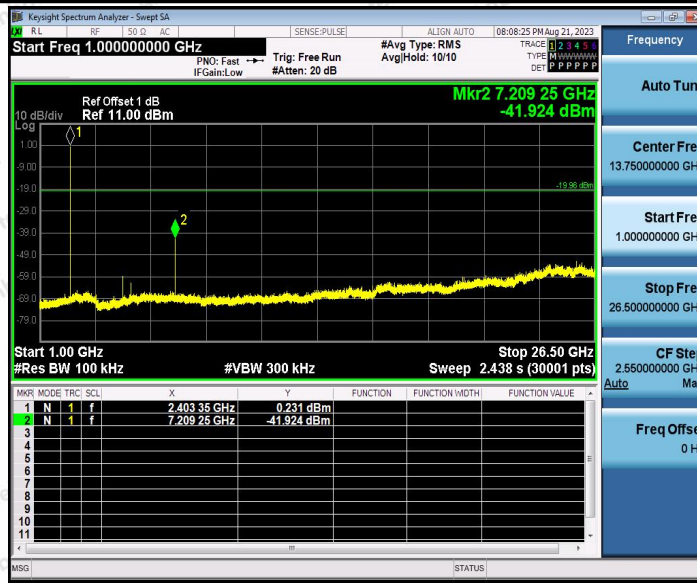


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2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000

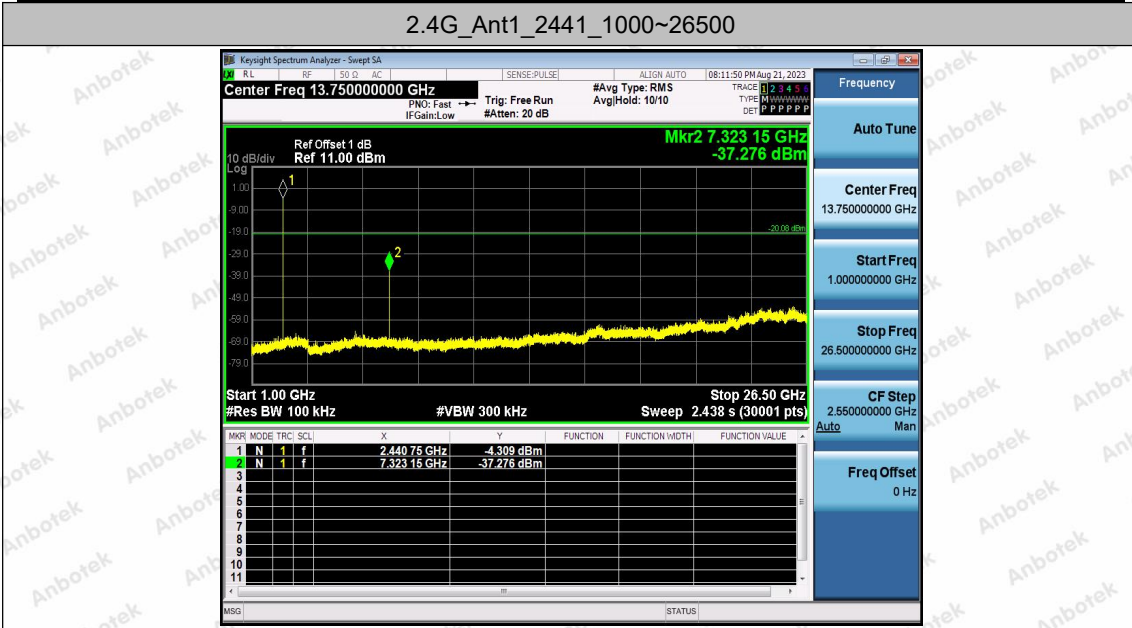


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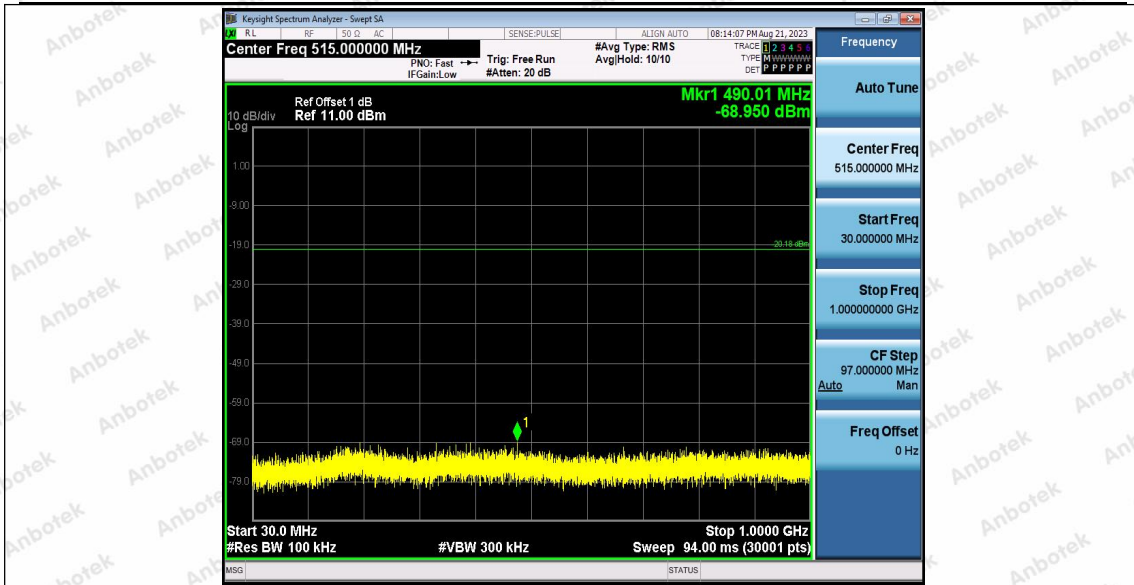
2.4G_Ant1_2480_30~1000

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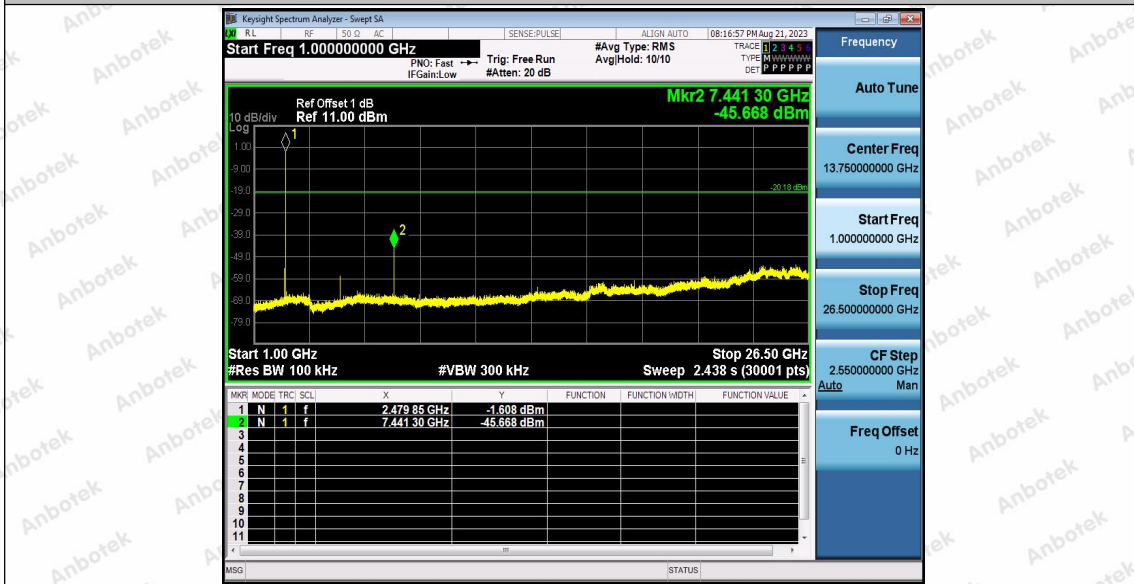
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2.4G_Ant1_2480_1000~26500



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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	2403	0.13	3.96	3.28	14.84
		2441	0.12	3.95	3.04	15.17
		2480	0.13	3.96	3.28	14.84

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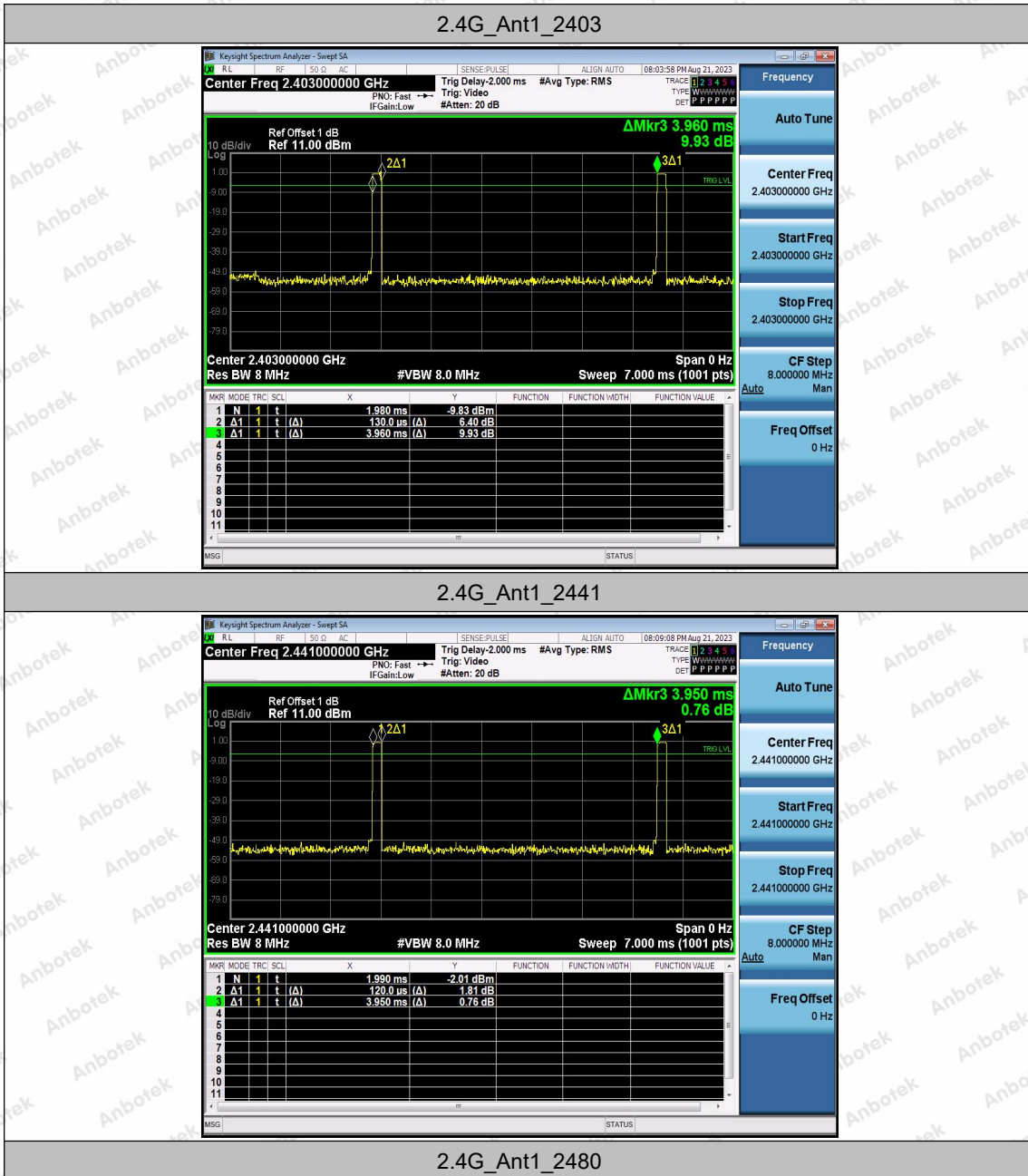
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Test Graphs

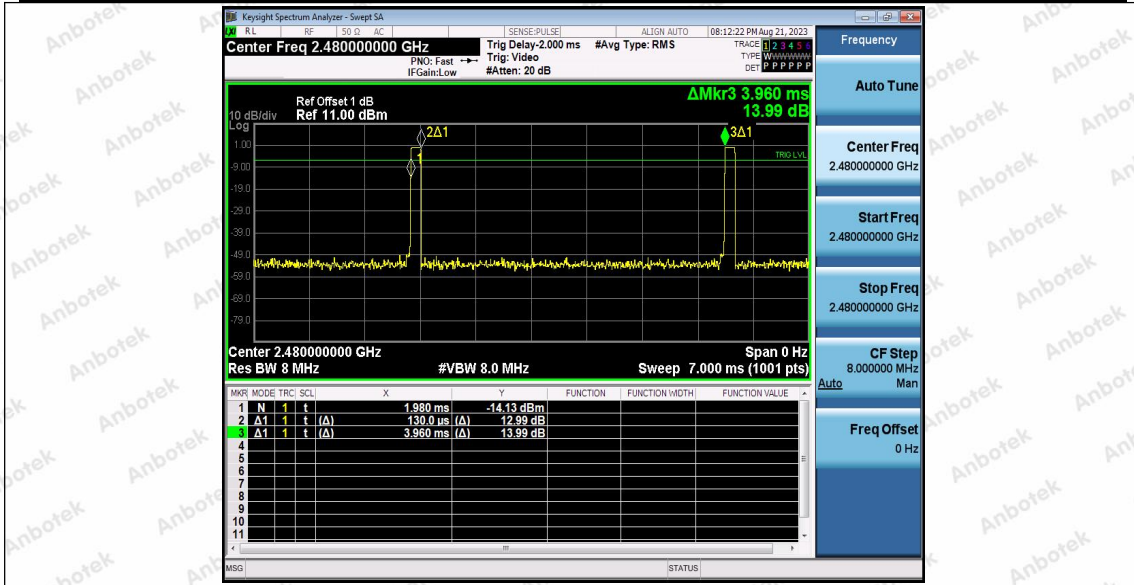


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