

Appendix Test Data

Report No.:	18220WC30167201	Test Sample No.:	1-2-2
Start Test Date:	2023.08.09	Finish Test Date:	2023.08.16
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	25.4℃	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	2406	4.540	2403.700	2408.240	---	---
		2442	4.550	2439.690	2444.240	---	---
		2475	4.560	2472.680	2477.240	---	---



Test Graphs

2.4G_Ant1_2406



2.4G_Ant1_2442



2.4G_Ant1_2475

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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	2406	4.4086	2403.8150	2408.2236	---	---
		2442	4.3675	2439.8258	2444.1933	---	---
		2475	4.4094	2472.7423	2477.1517	---	---

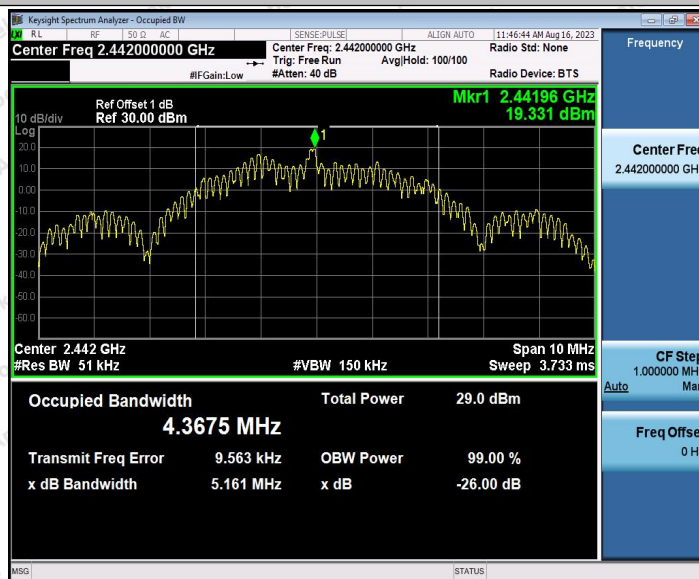


Test Graphs

2.4G_Ant1_2406



2.4G_Ant1_2442



2.4G_Ant1_2475

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Appendix C: Maximum conducted output power

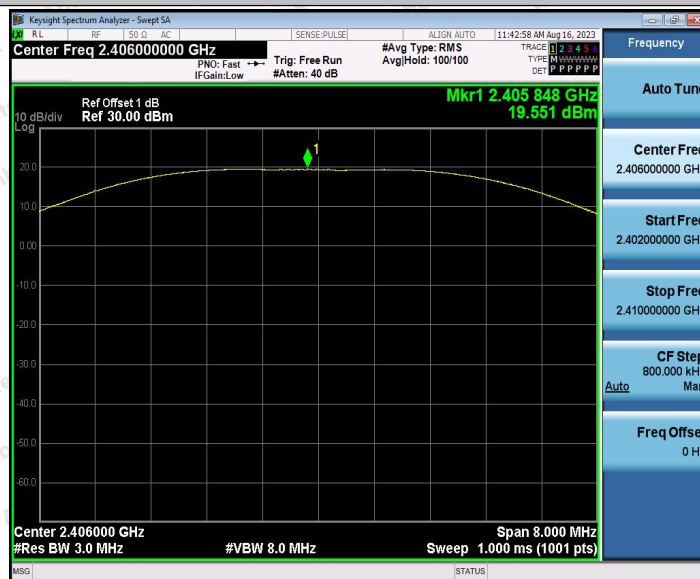
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2406	19.55	≤30	PASS
		2442	19.58	≤30	PASS
		2475	19.03	≤30	PASS

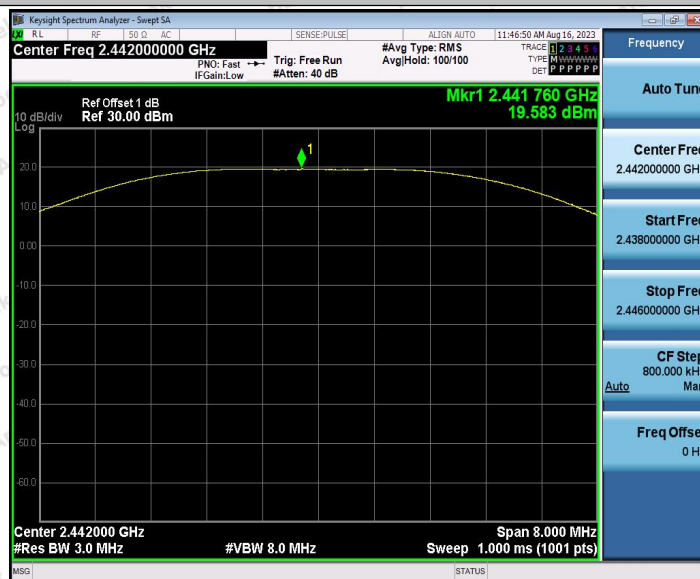


Test Graphs

2.4G_Ant1_2406



2.4G_Ant1_2442



2.4G_Ant1_2475

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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	3.040	≥3.040	PASS

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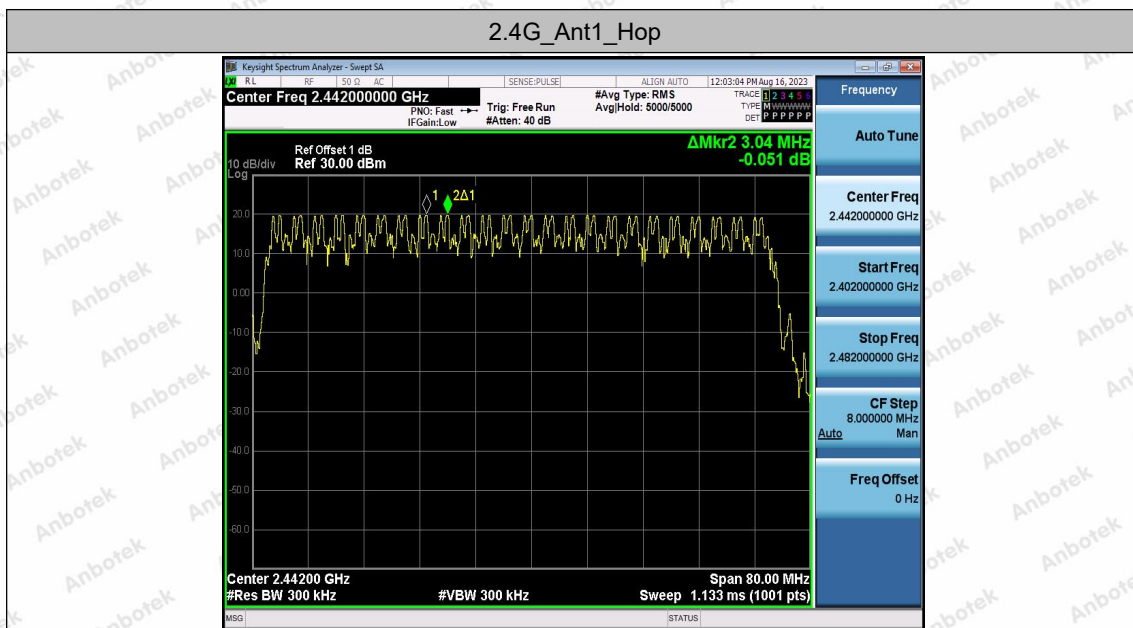
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Test Graphs



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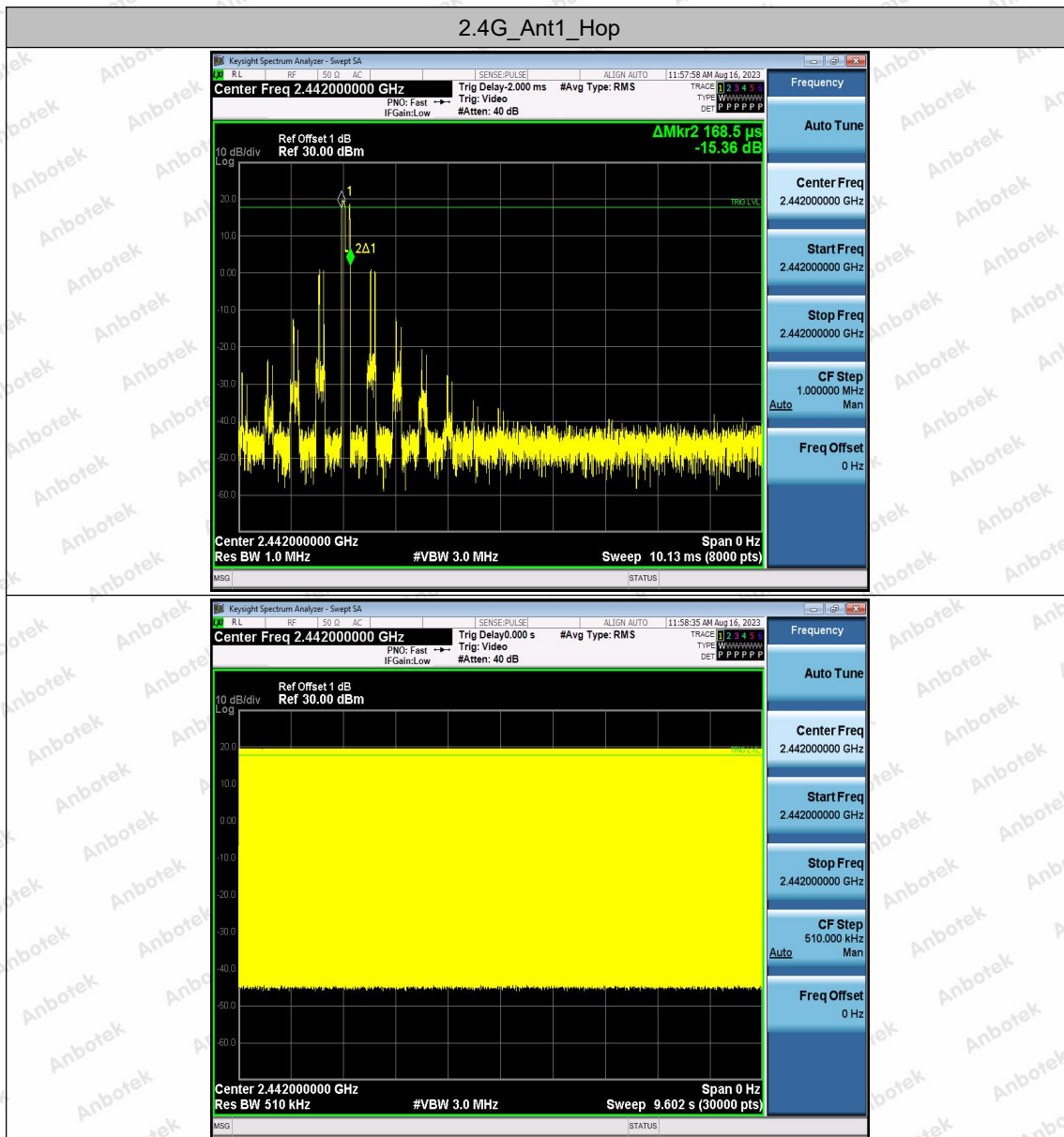
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.169	807	0.136	≤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	24	≥15	PASS





Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2406	19.48	-18.86	≤ -0.52	PASS
		High	2475	18.87	-26.69	≤ -1.13	PASS
		Low	Hop_2406	19.52	-37.39	≤ -0.48	PASS
		High	Hop_2475	19.35	-46.25	≤ -0.65	PASS



Test Graphs

2.4G_Ant1_Low_2406



2.4G_Ant1_High_2475



2.4G_Ant1_Low_Hop_2406

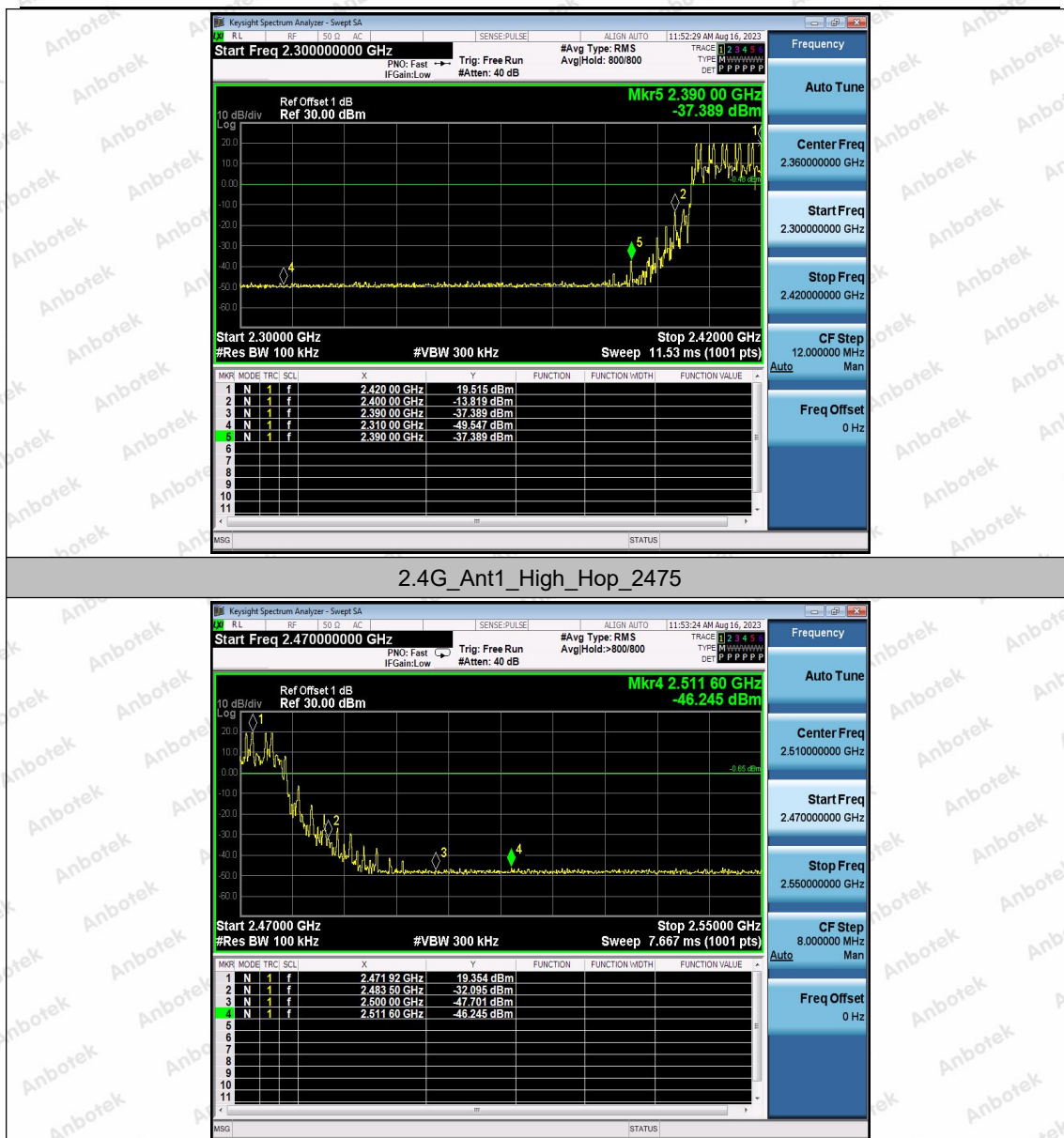
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2406	Reference	19.32	19.32	---	PASS
			30~1000	19.32	-68.89	≤-0.68	PASS
			1000~26500	19.32	-32.87	≤-0.68	PASS
		2442	Reference	19.37	19.37	---	PASS
			30~1000	19.37	-68.02	≤-0.63	PASS
			1000~26500	19.37	-33.33	≤-0.63	PASS
		2475	Reference	18.82	18.82	---	PASS
			30~1000	18.82	-68.64	≤-1.18	PASS
			1000~26500	18.82	-33.18	≤-1.18	PASS

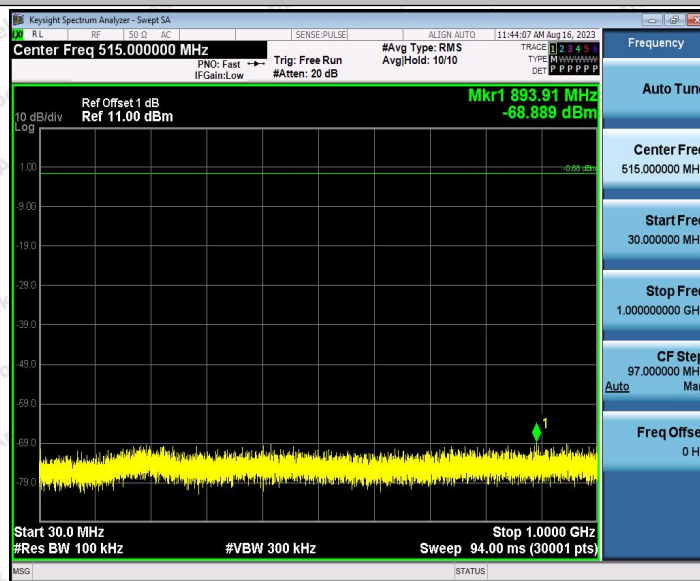


Test Graphs

2.4G_Ant1_2406_0~Reference



2.4G_Ant1_2406_30~1000



2.4G_Ant1_2406_1000~26500

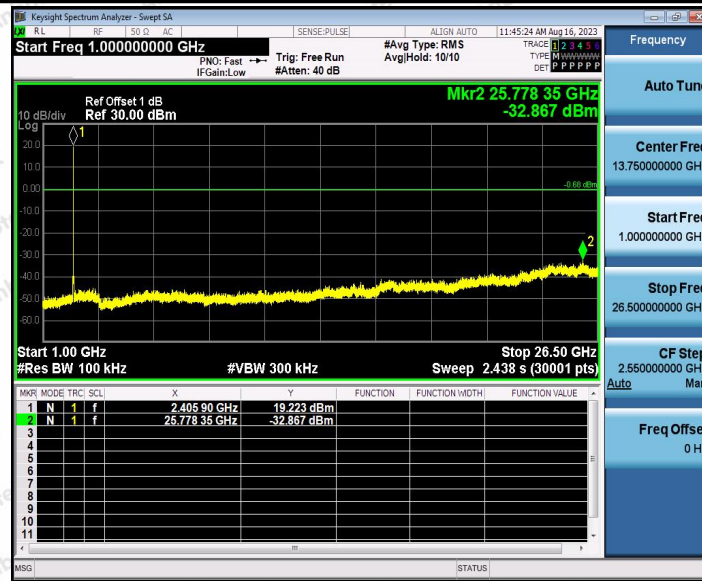
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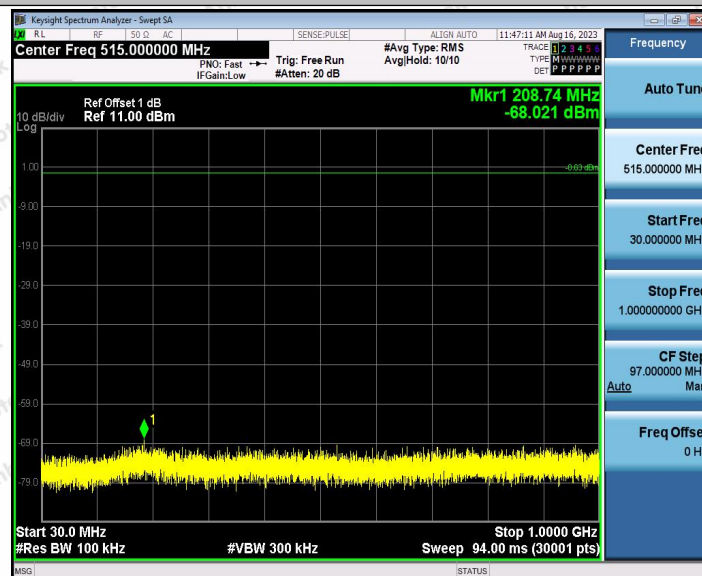




2.4G_Ant1_2442_0~Reference



2.4G_Ant1_2442_30~1000



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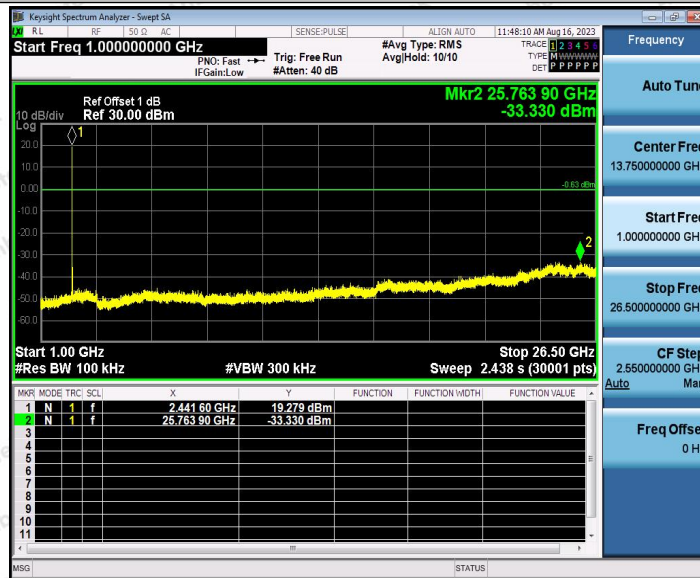
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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2.4G_Ant1_2442_1000~26500



2.4G_Ant1_2475_0~Reference



2.4G_Ant1_2475_30~1000

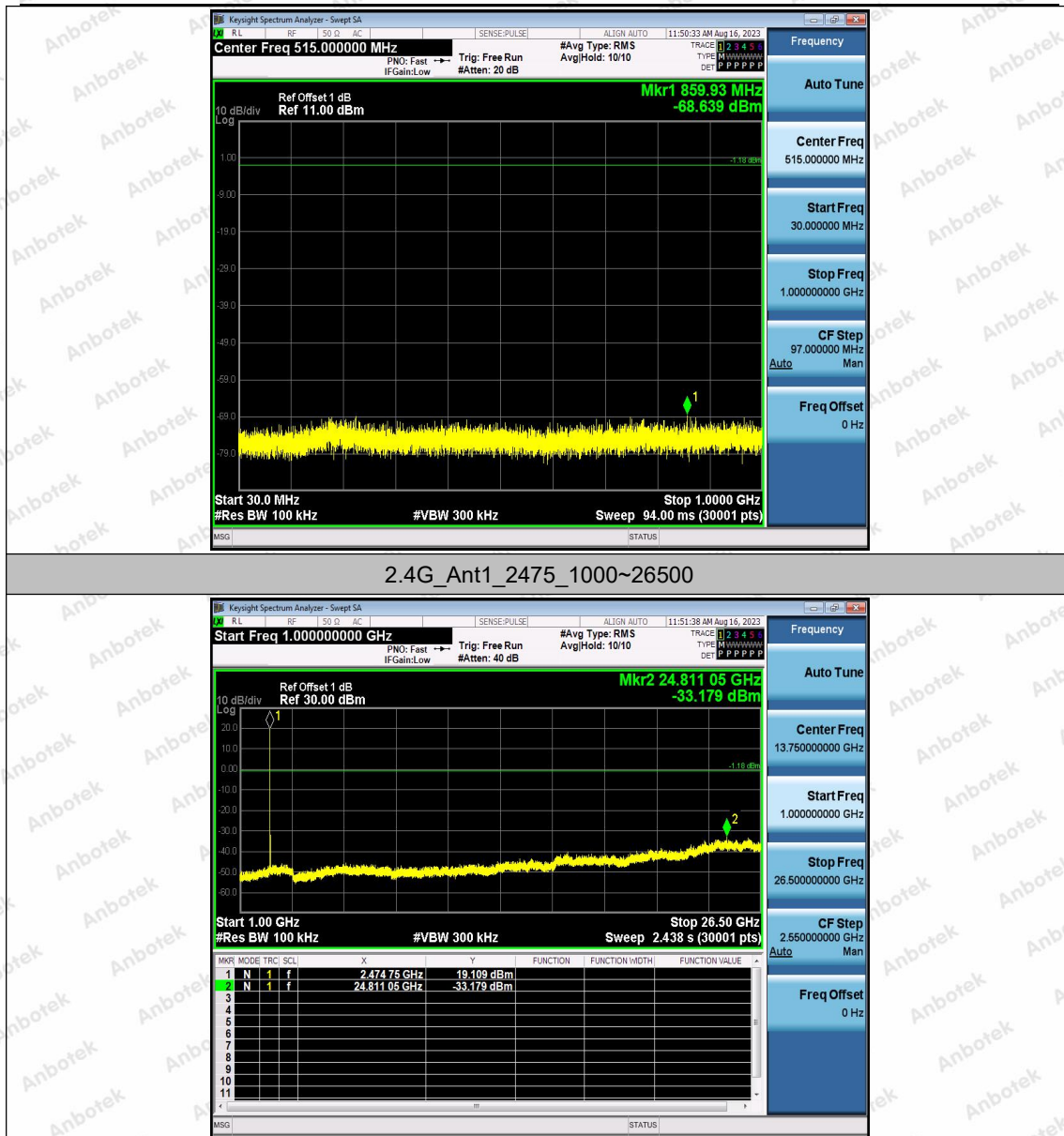
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Appendix I: Duty Cycle

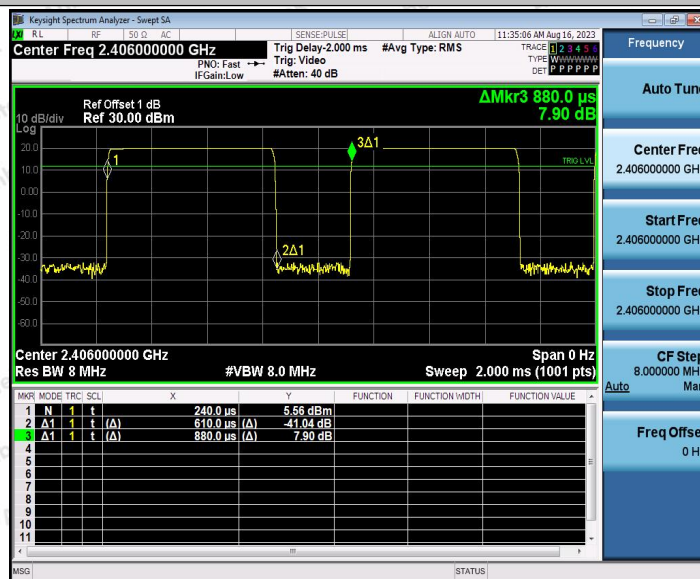
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2406	0.61	0.88	69.32	1.59
		2442	0.61	0.88	69.32	1.59
		2475	0.61	0.88	69.32	1.59

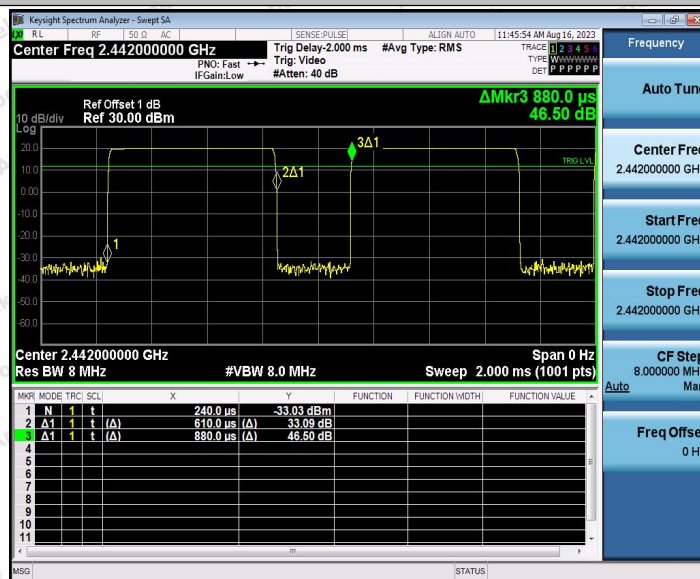


Test Graphs

2.4G_Ant1_2406



2.4G_Ant1_2442



2.4G_Ant1_2475

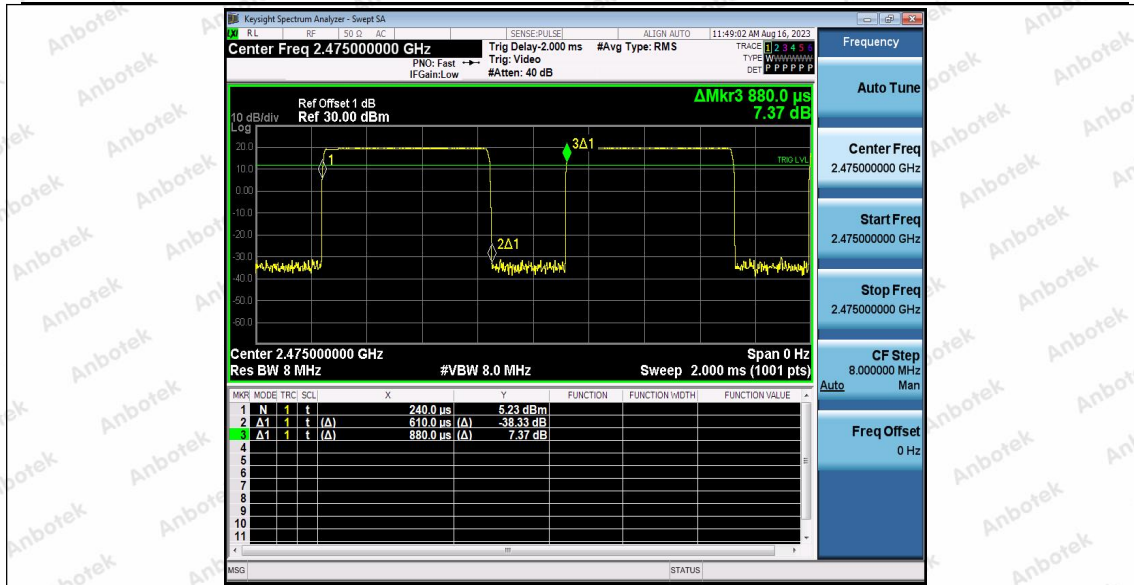
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