

Appendix Test Data

Report No.:	18220WC20268603	Test Sample No.:	1-2-2
Start Test Date:	2022.11.30	Finish Test Date:	2022.12.8
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	43 %
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	0.789	2401.986	2402.775	---	---
		2441.4	0.801	2440.962	2441.763	---	---
		2479.4	0.777	2478.995	2479.772	---	---

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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	0.73171	2402.0128	2402.7445	---	---
		2441.4	0.73189	2441.0080	2441.7399	---	---
		2479.4	0.74469	2479.0105	2479.7551	---	---



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

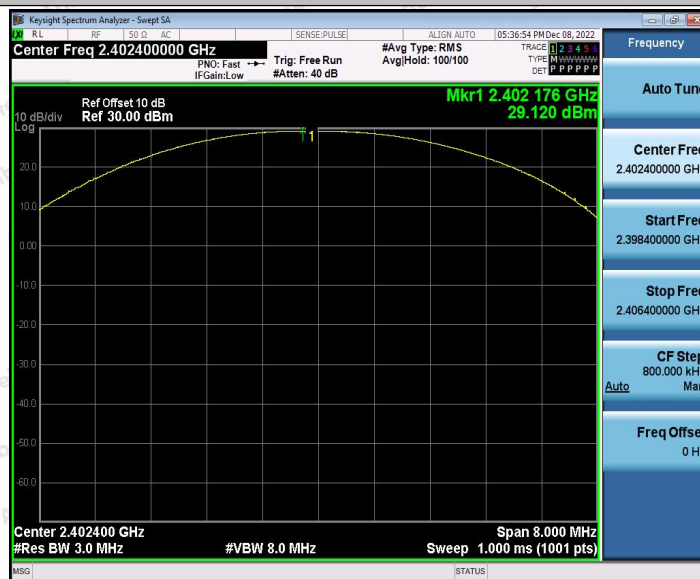
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2402.4	29.12	≤30	PASS
		2441.4	28.79	≤30	PASS
		2479.4	28.6	≤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	0.986	≥0.801	PASS



Test Graphs



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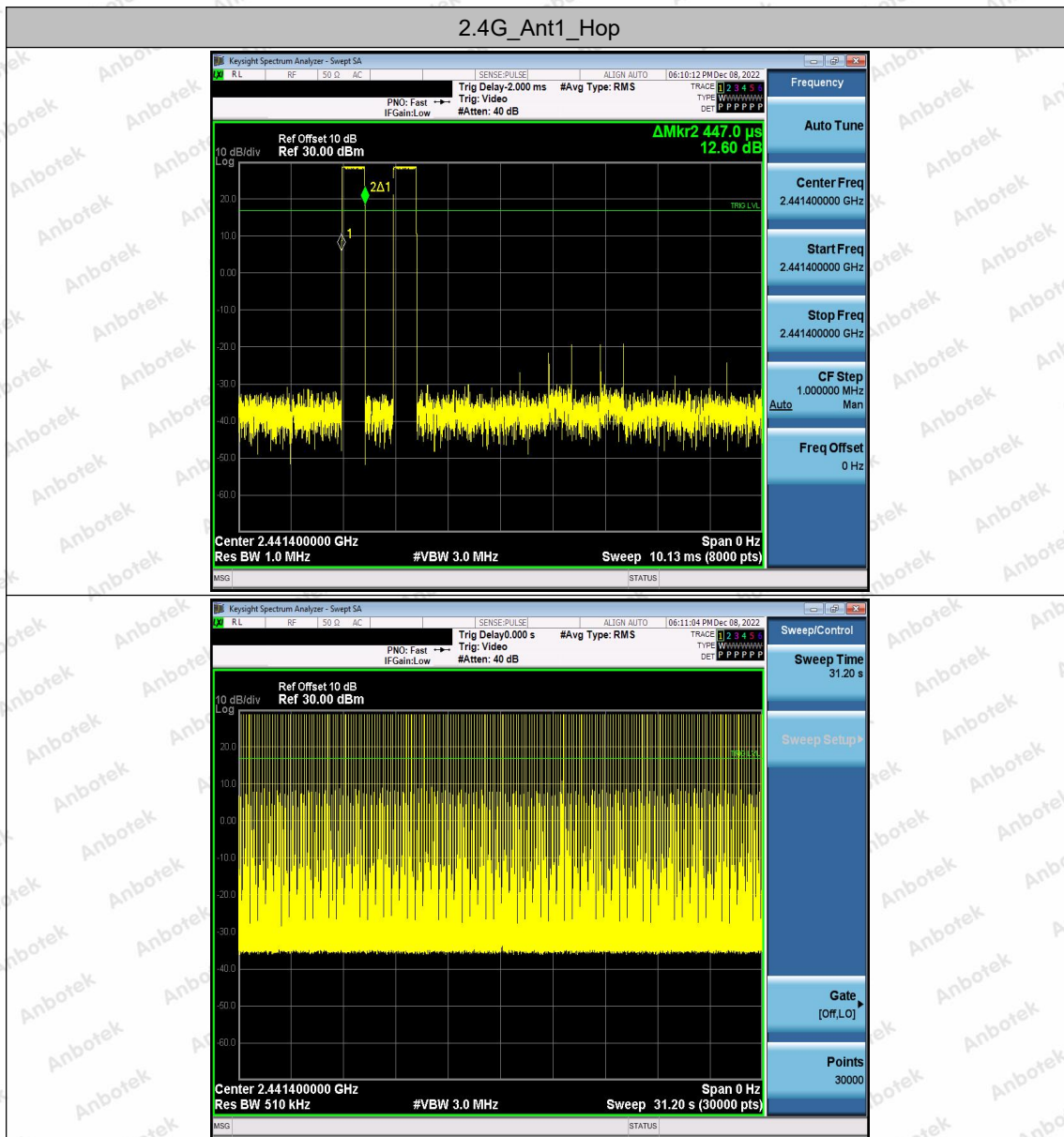
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.447	200	0.089	≤0.4	PASS



Test Graphs



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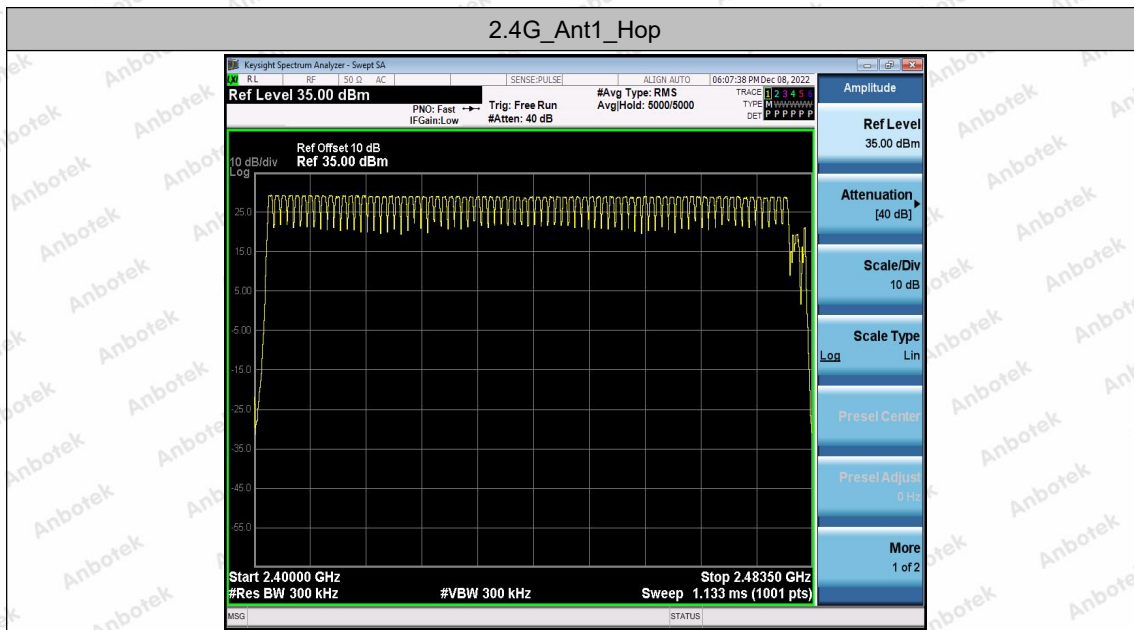
Appendix F: Number of hopping channels

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

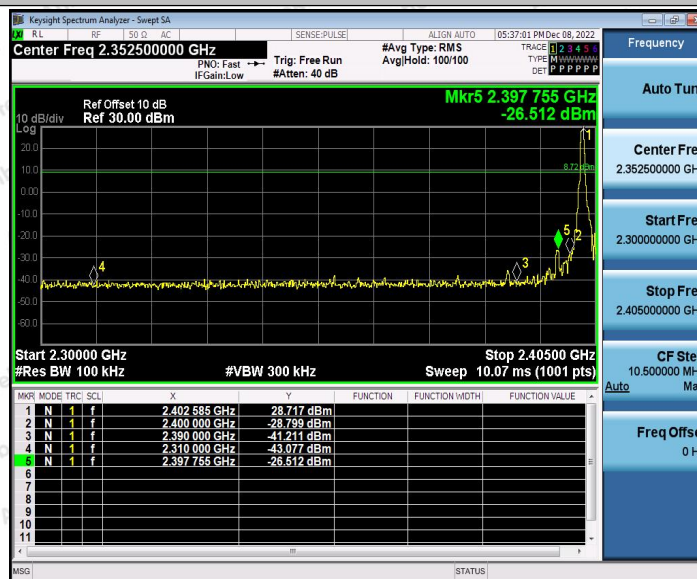
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2402.4	28.72	-26.51	≤8.72	PASS
		High	2479.4	28.60	-28.92	≤8.6	PASS
		Low	Hop_2402	28.34	-37	≤8.34	PASS
		High	Hop_2480	27.86	-2.54	≤7.86	PASS



Test Graphs

2.4G_Ant1_Low_2402.4



2.4G_Ant1_High_2479.4



2.4G_Ant1_Low_Hop_2402

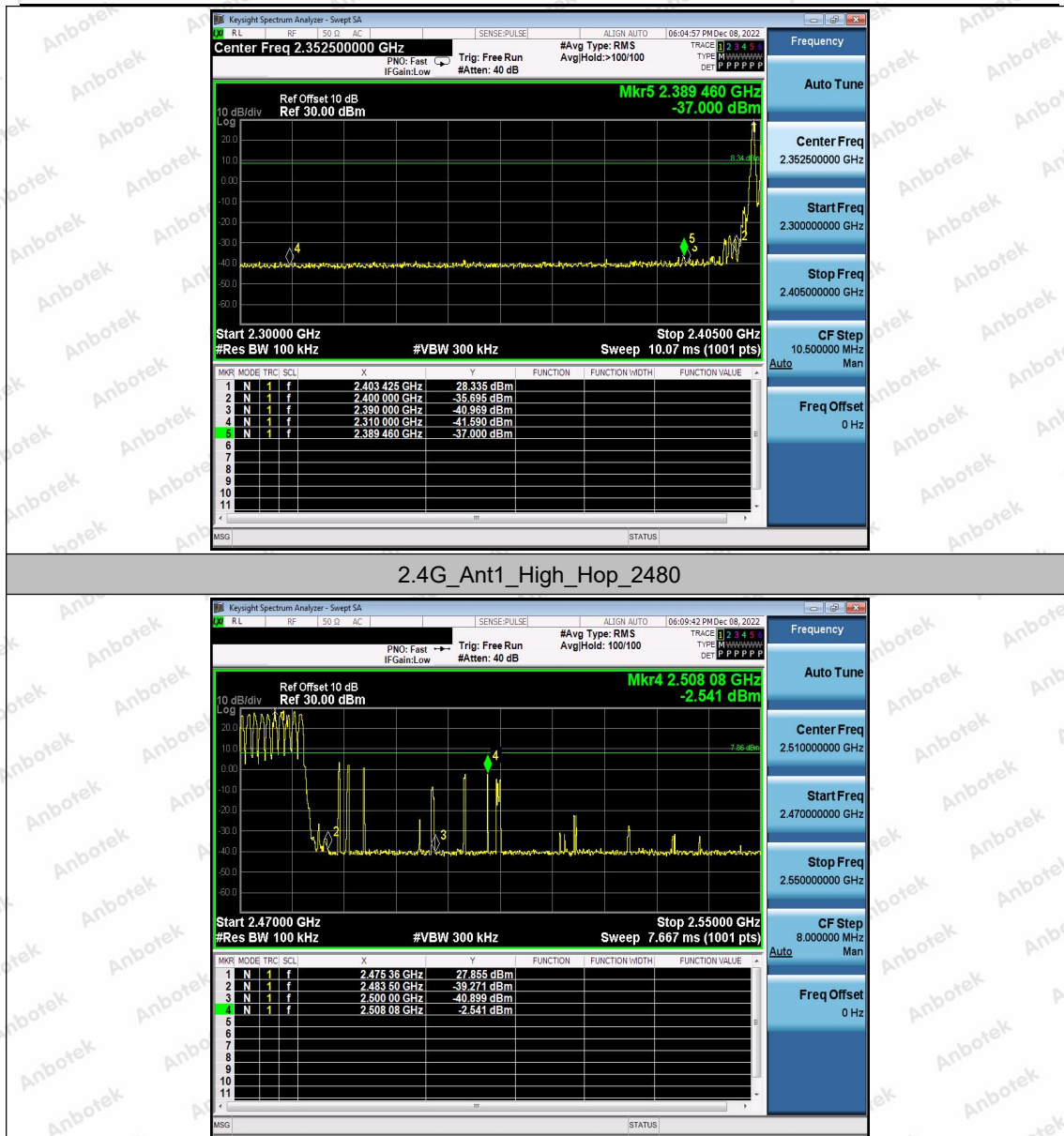
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2402.4	Reference	28.25	28.25	---	PASS
			30~1000	28.25	-59.6	≤8.25	PASS
			1000~26500	28.25	-42.51	≤8.25	PASS
		2441.4	Reference	27.96	27.96	---	PASS
			30~1000	27.96	-59.36	≤7.96	PASS
			1000~26500	27.96	-40.5	≤7.96	PASS
		2479.4	Reference	27.81	27.81	---	PASS
			30~1000	27.81	-59.15	≤7.81	PASS
			1000~26500	27.81	-38.51	≤7.81	PASS



Test Graphs



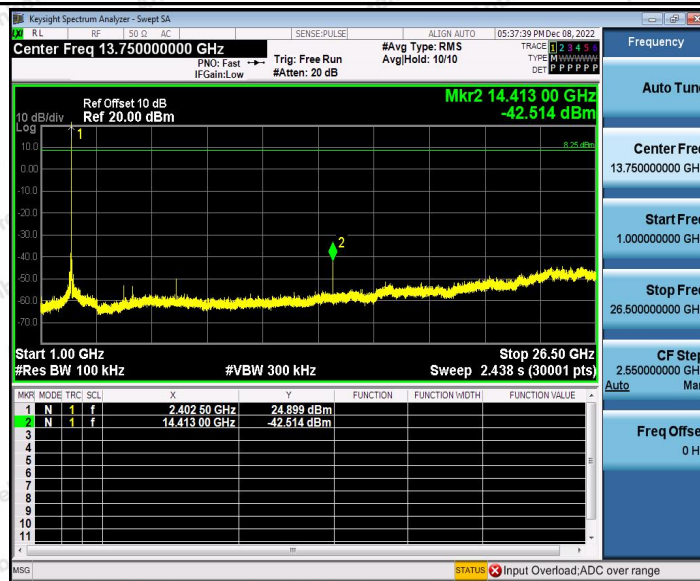
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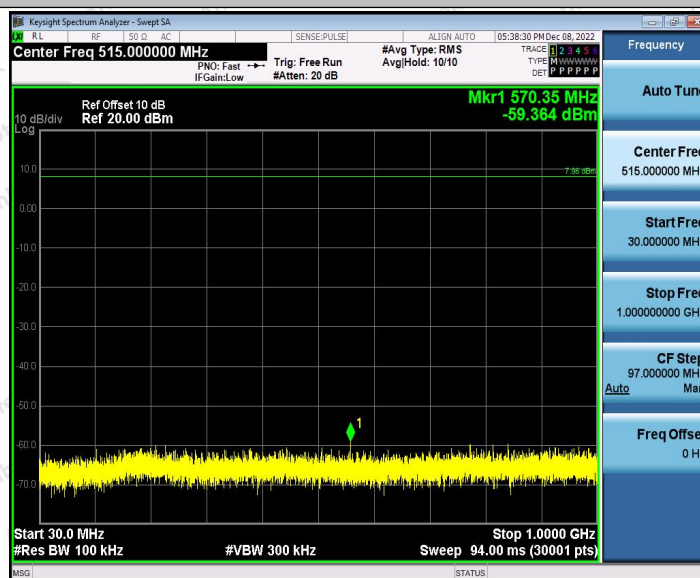




2.4G_Ant1_2441.4_0~Reference



2.4G_Ant1_2441.4_30~1000



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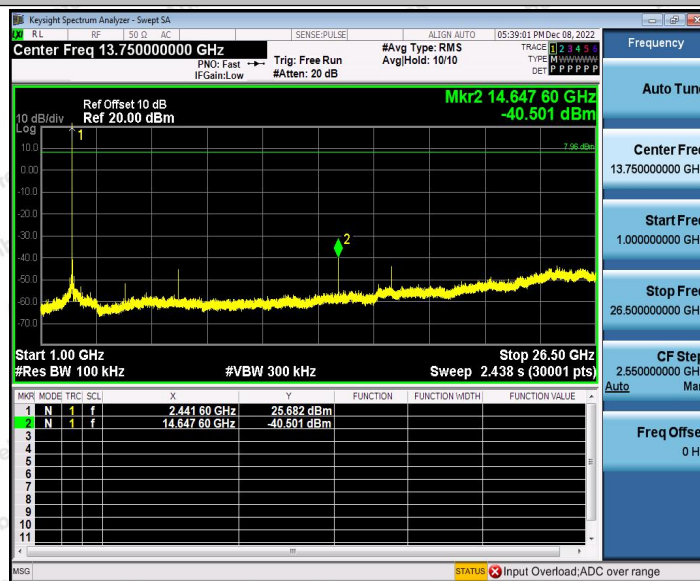
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2.4G_Ant1_2441.4_1000~26500



2.4G_Ant1_2479.4_0~Reference



2.4G_Ant1_2479.4_30~1000

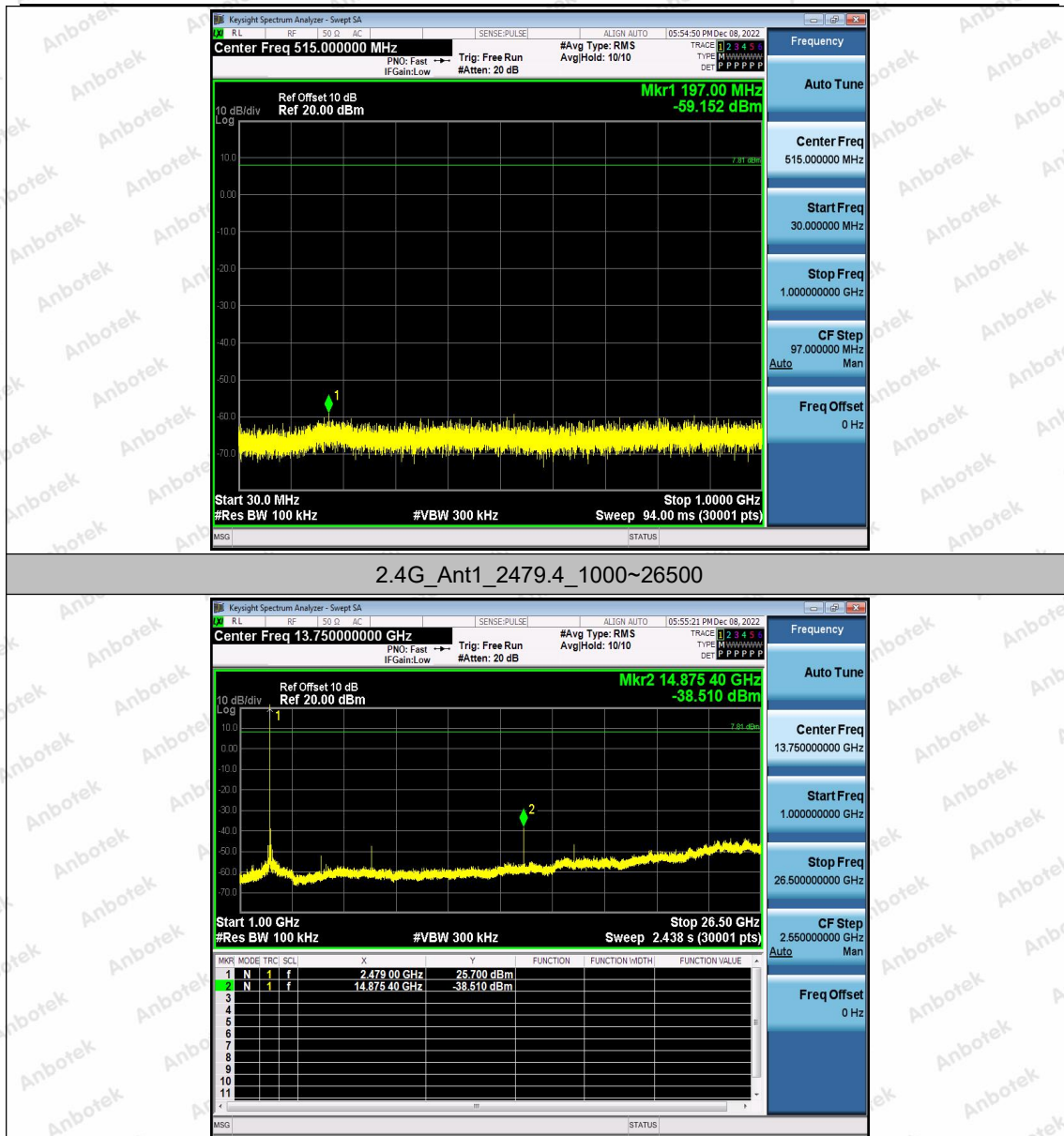
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Appendix I: Duty Cycle

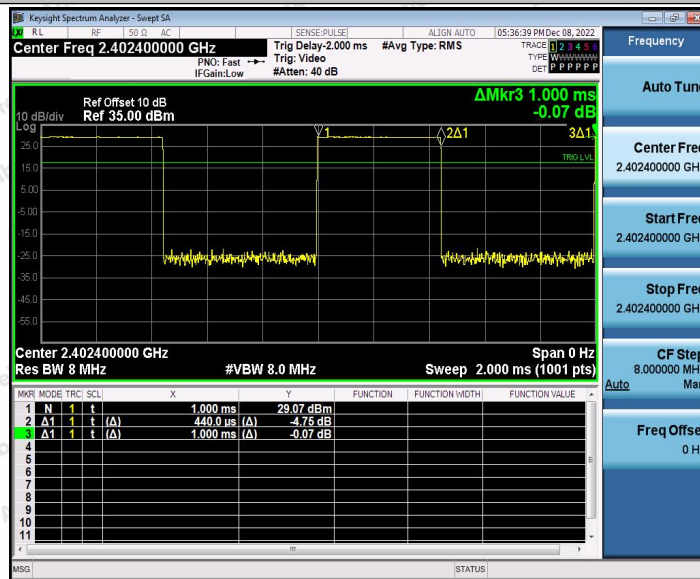
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
2.4G	Ant1	2402.4	0.44	1.00	44.00	3.57
		2441.4	0.44	1.00	44.00	3.57
		2479.4	0.45	1.00	45.00	3.47

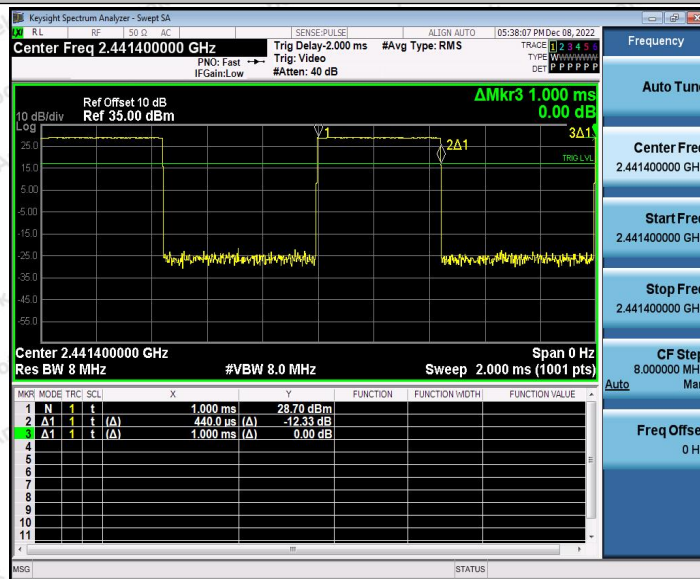


Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



2.4G_Ant1_2479.4

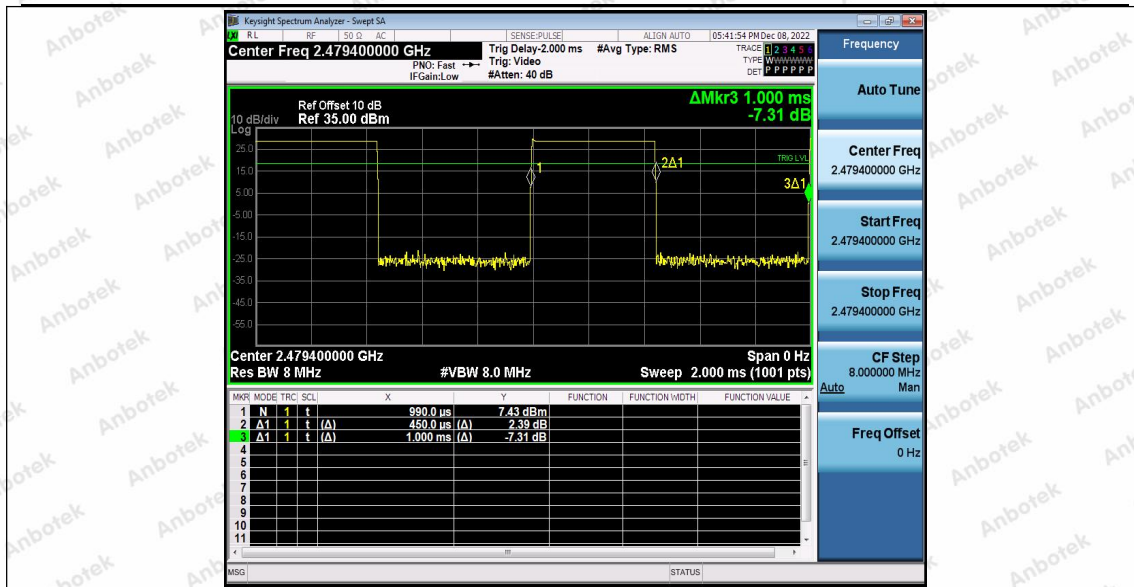
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