

Appendix Test Data

Report No.:	18220WC20267801	Test Sample No.:	1-2-2
Start Test Date:	2022.11.22	Finish Test Date:	2022.12.21
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	23.3°C	Relative Humidity:	40 %
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	2403	1.176	2402.424	2403.600	---	---
		2441	1.215	2440.424	2441.639	---	---
		2479	1.314	2478.415	2479.729	---	---

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Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2479

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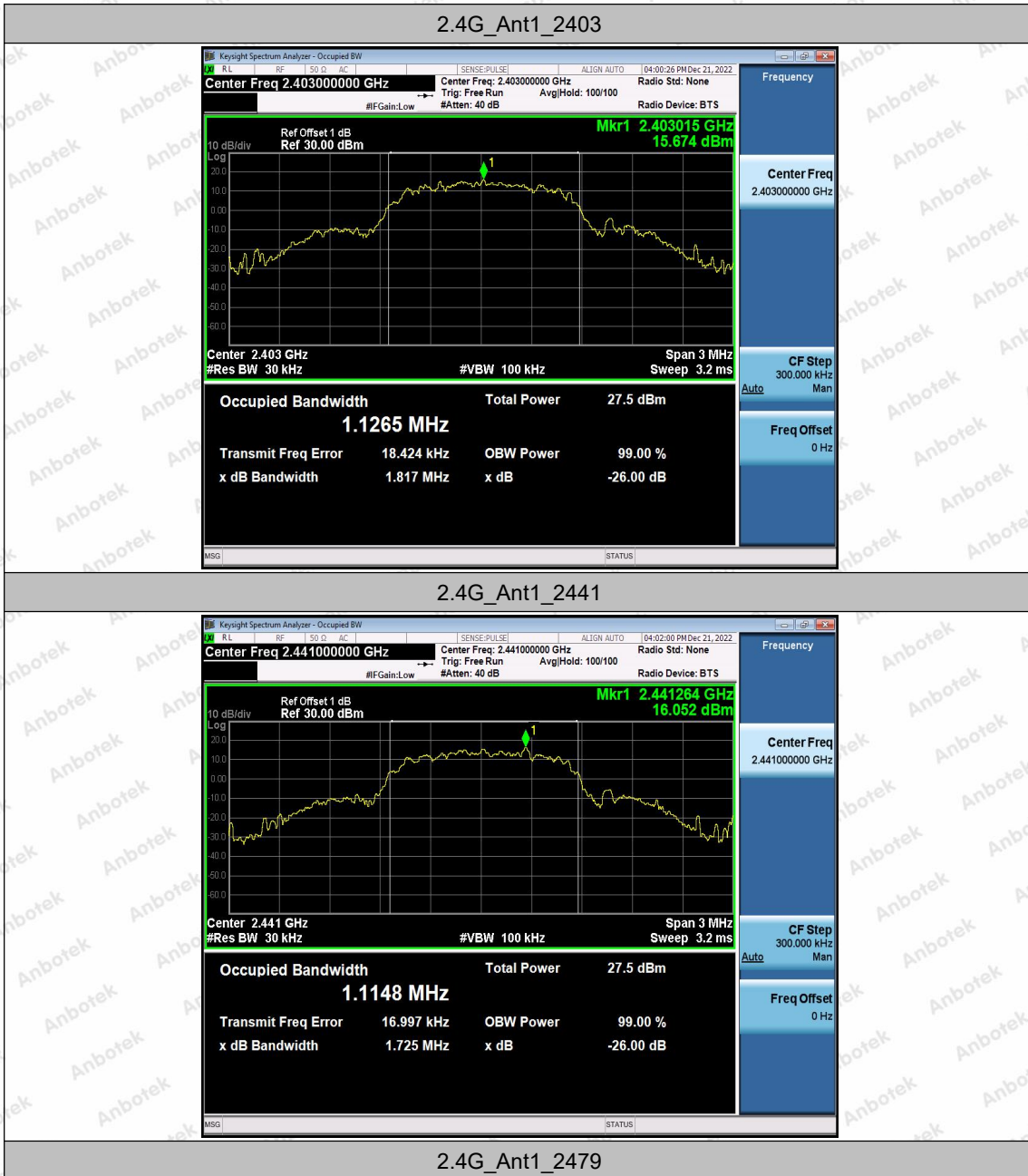
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403	1.1265	2402.4552	2403.5817	---	---
		2441	1.1148	2440.4596	2441.5744	---	---
		2479	1.1394	2478.4522	2479.5916	---	---



Test Graphs



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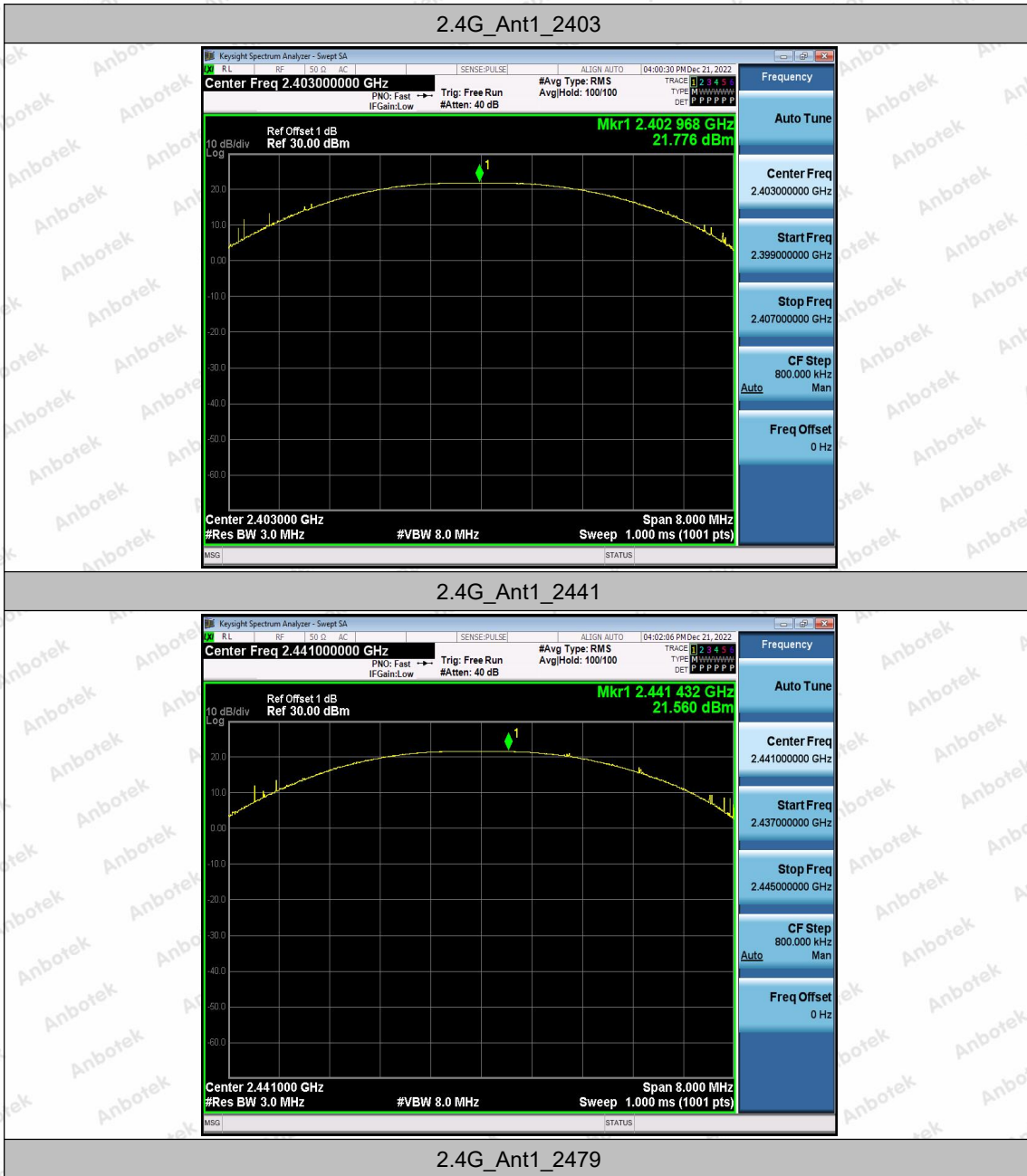
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2403	21.78	≤30	PASS
		2441	21.56	≤30	PASS
		2479	21.35	≤30	PASS



Test Graphs



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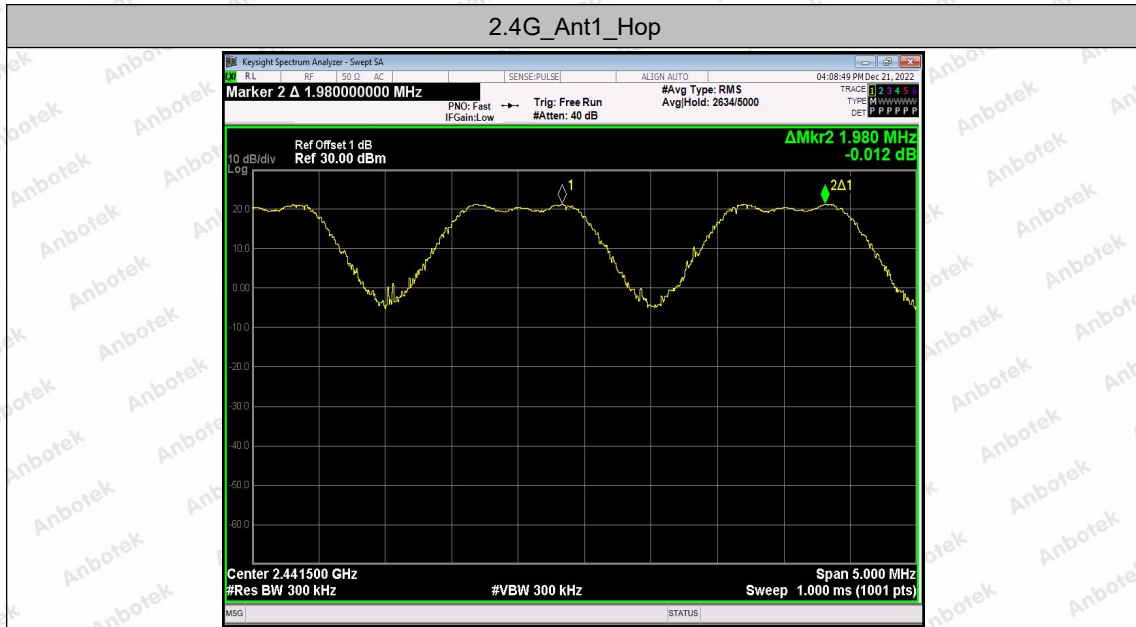
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.980	≥0.810	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	4.162	20	0.083	≤0.4	PASS

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Test Graphs



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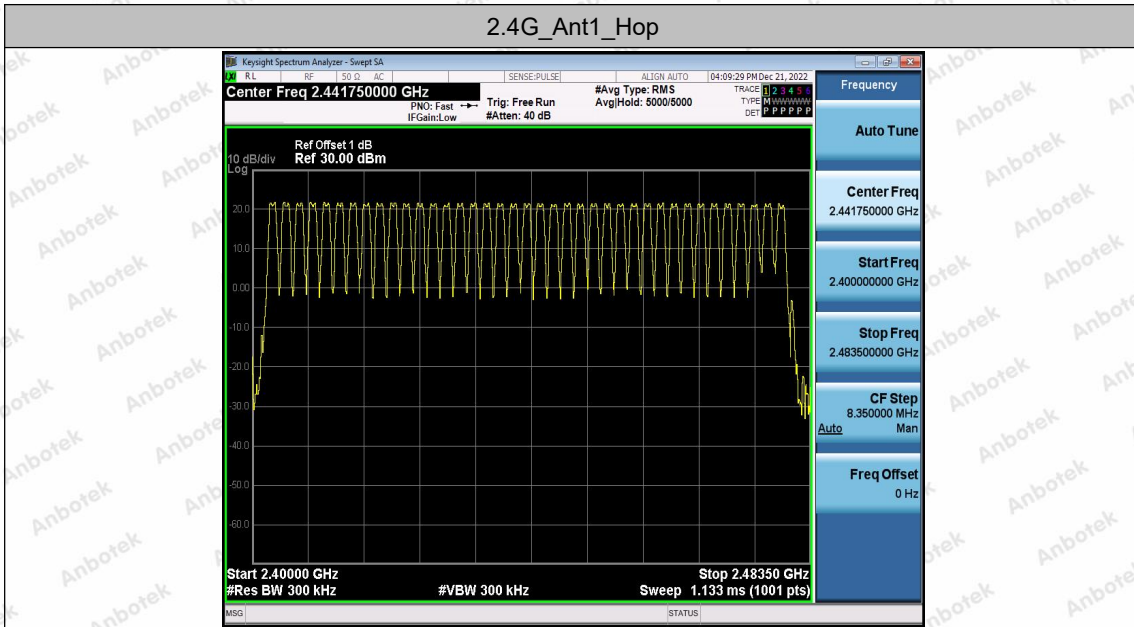
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	39	≥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	2403	19.86	-20.27	≤-0.14	PASS
		High	2479	19.41	-25.61	≤-0.59	PASS
		Low	Hop_2402	19.43	-33.29	≤-0.57	PASS
		High	Hop_2480	19.14	-34.71	≤-0.86	PASS

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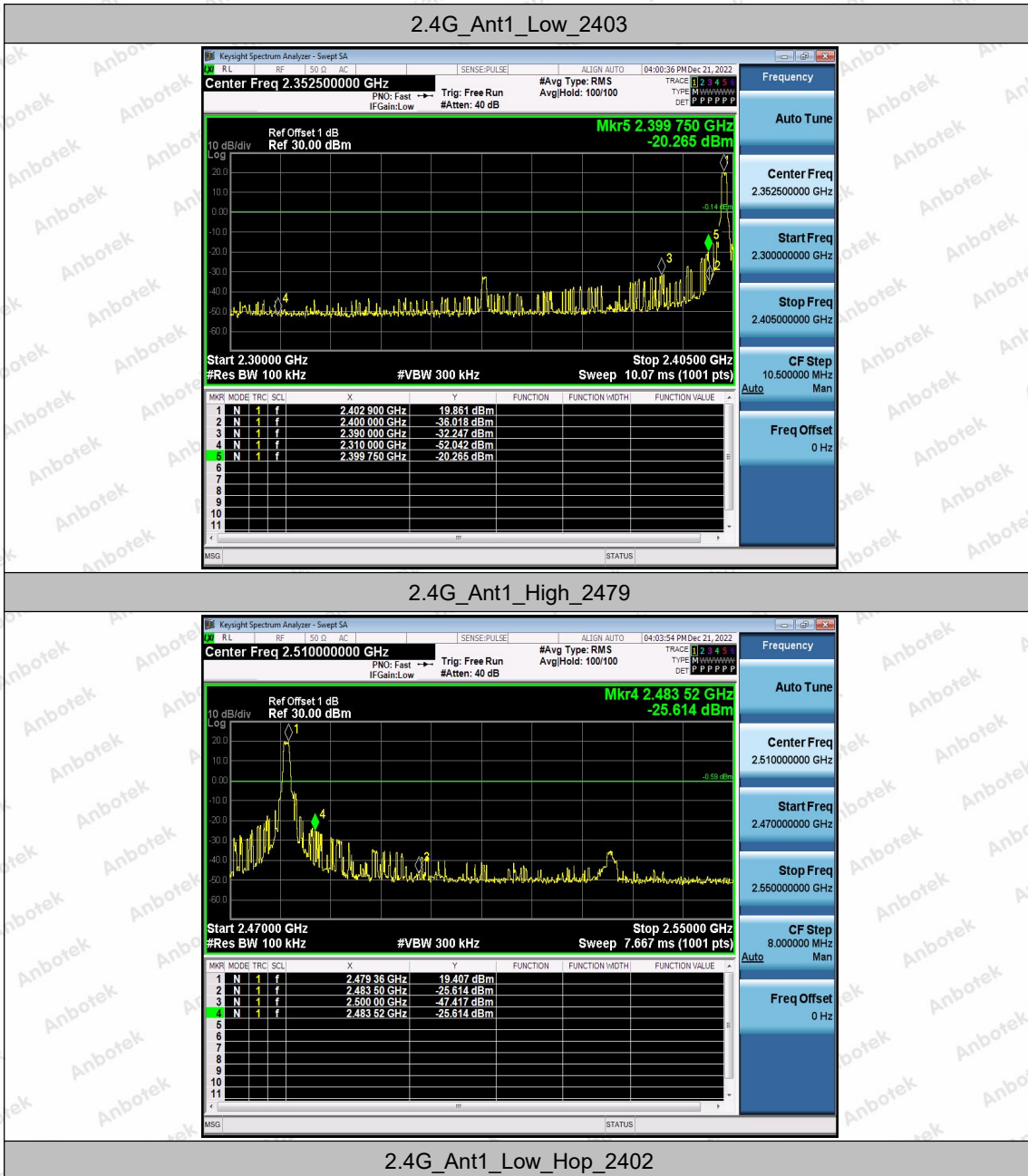
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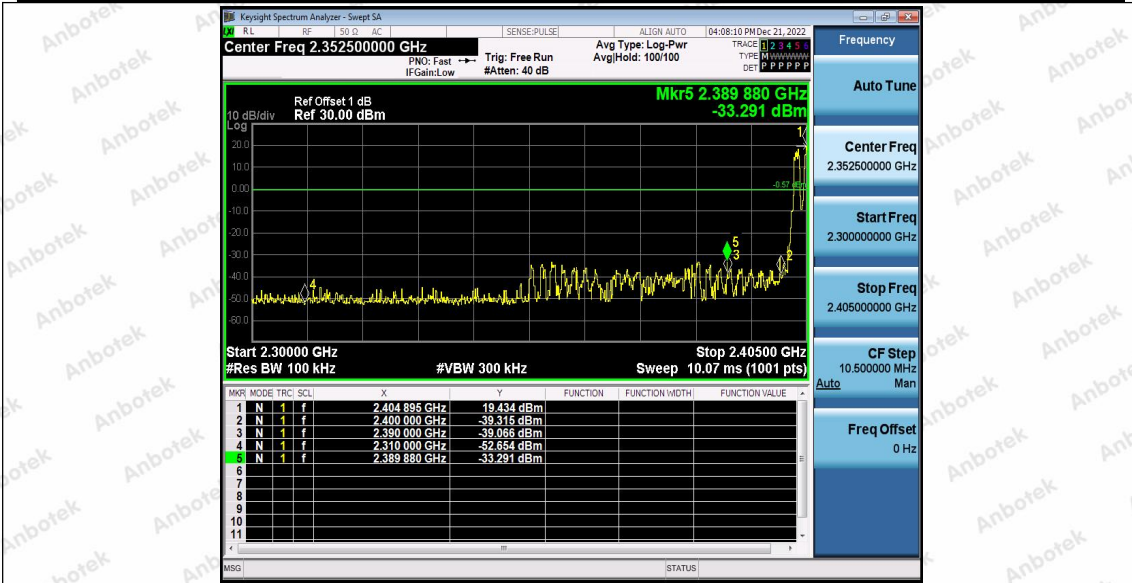


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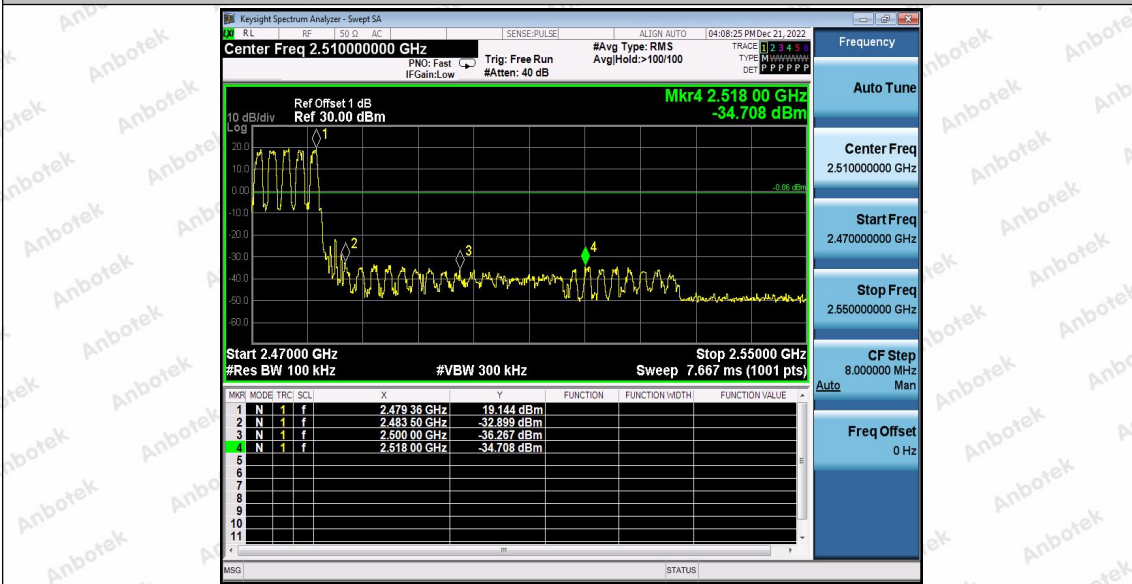


Test Graphs





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	19.74	19.74	---	PASS
			30~1000	19.74	-44.47	≤-0.26	PASS
			1000~26500	19.74	-22.02	≤-0.26	PASS
		2441	Reference	19.38	19.38	---	PASS
			30~1000	19.38	-47.59	≤-0.62	PASS
			1000~26500	19.38	-24.55	≤-0.62	PASS
		2479	Reference	19.21	19.21	---	PASS
			30~1000	19.21	-48.56	≤-0.79	PASS
			1000~26500	19.21	-21.85	≤-0.79	PASS

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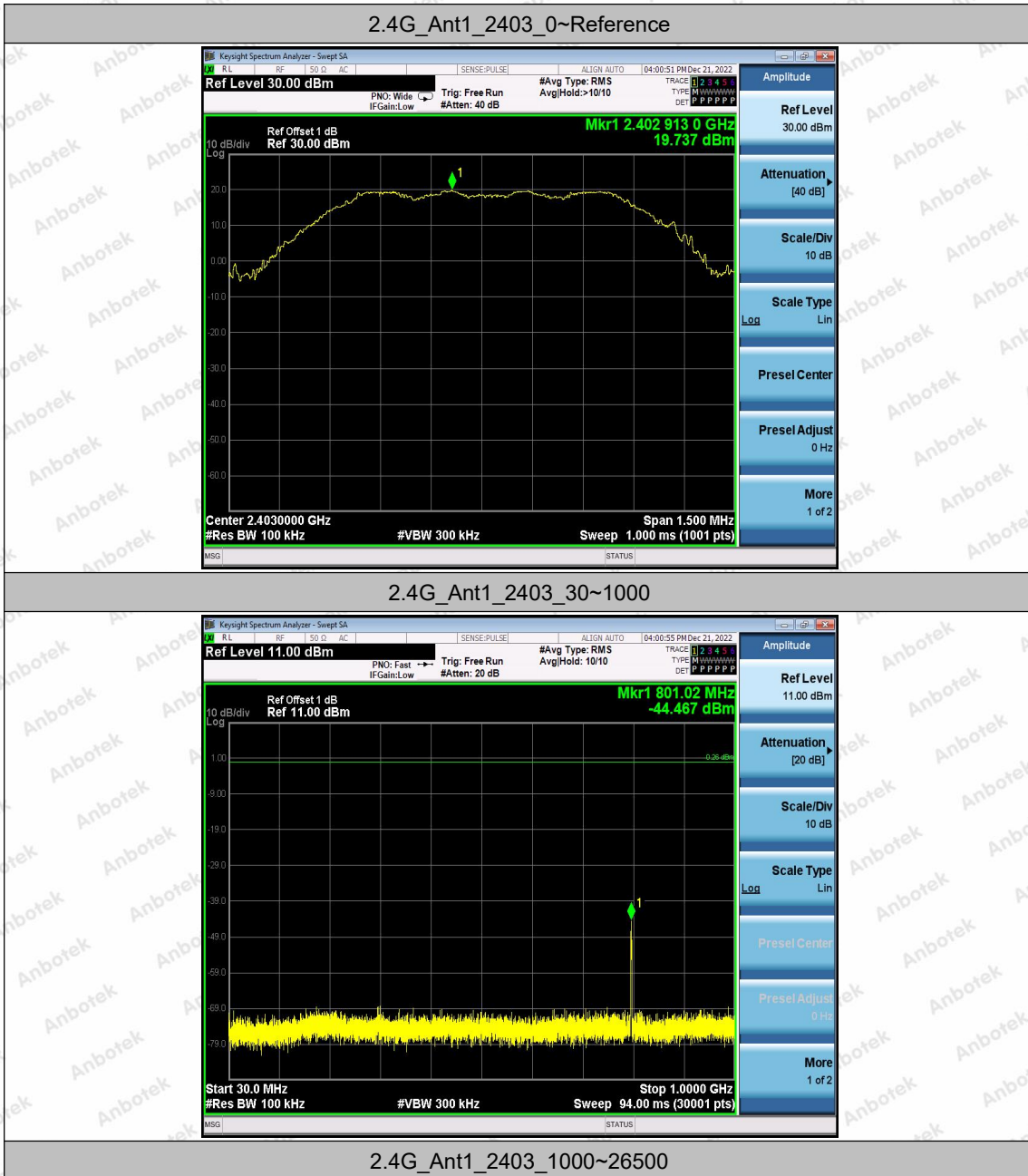
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Test Graphs

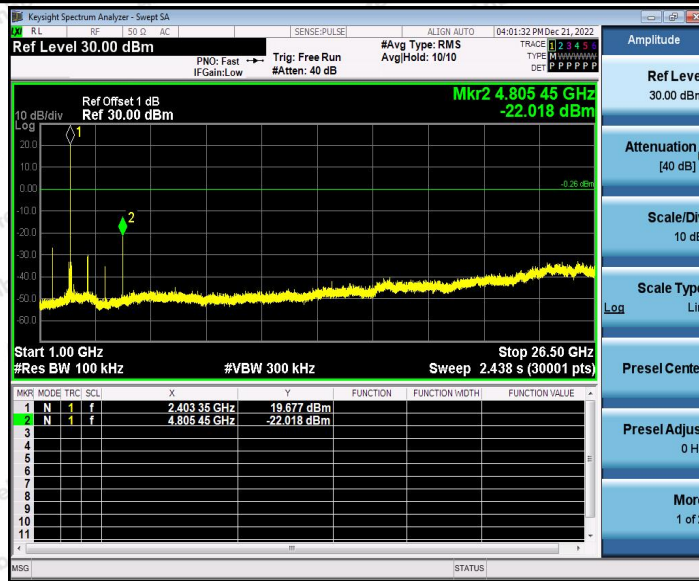


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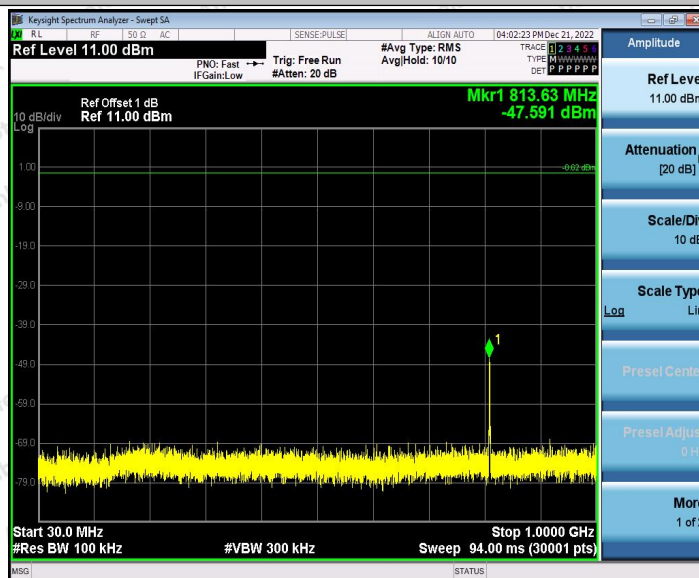




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000

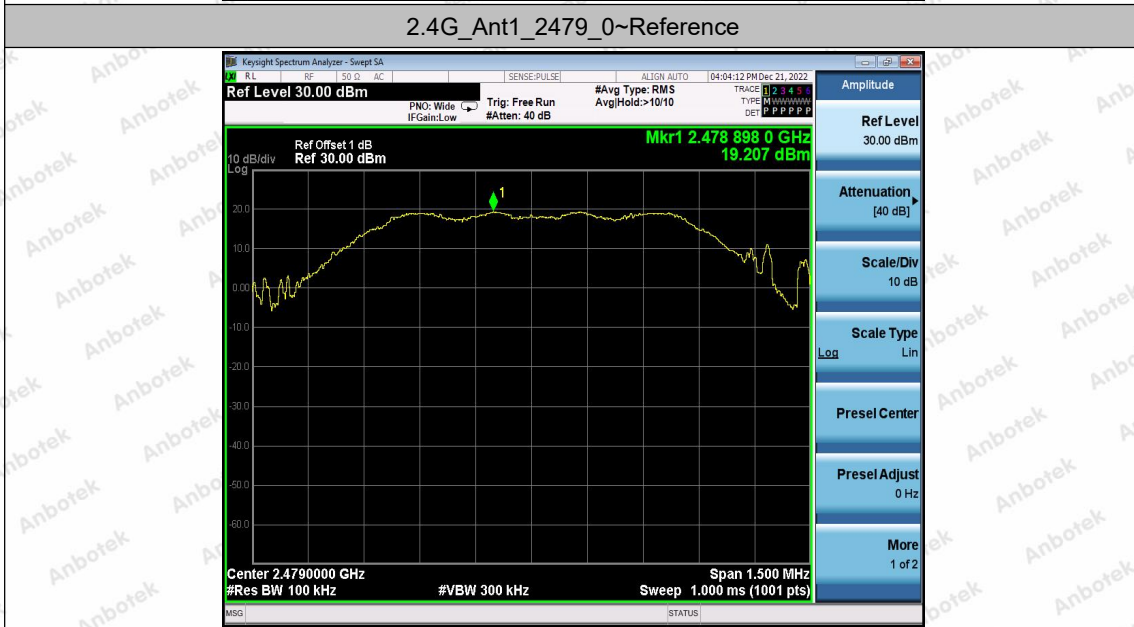
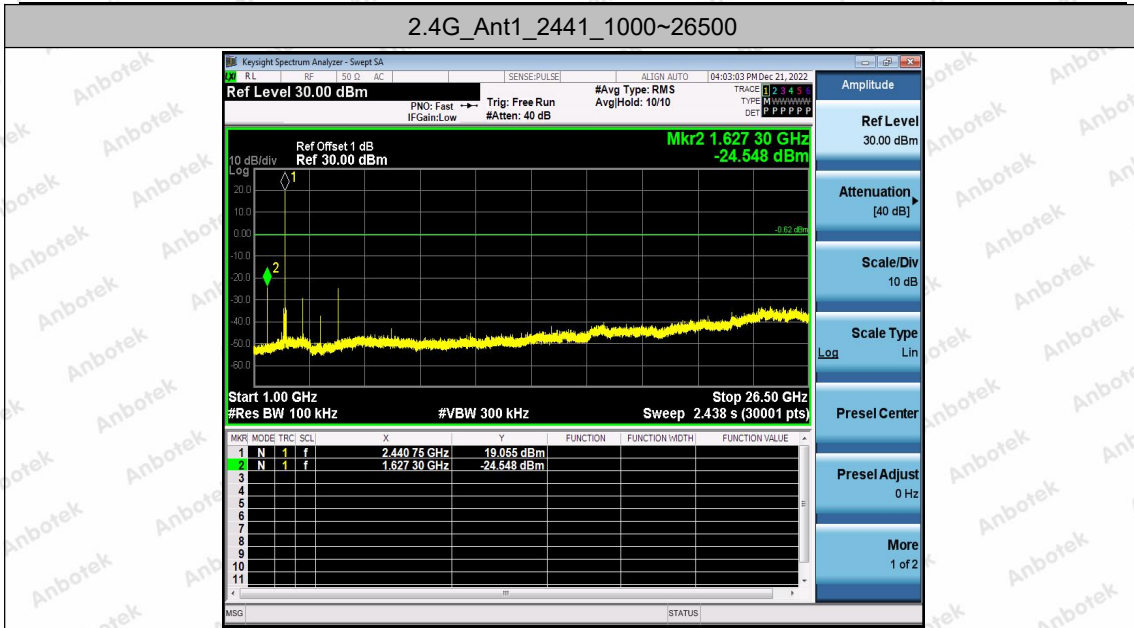


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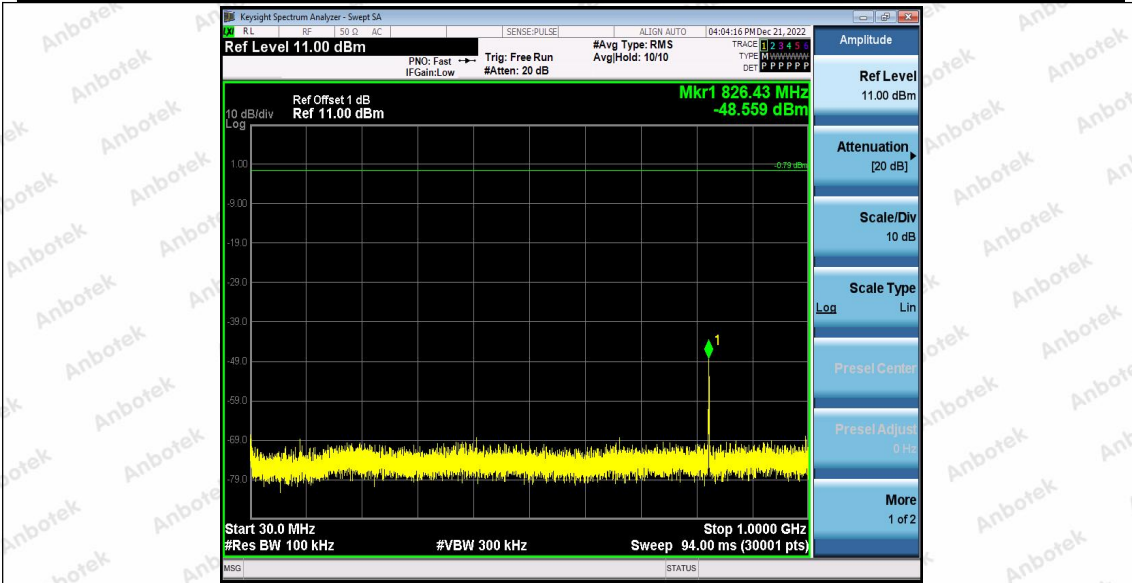
2.4G_Ant1_2479_30~1000

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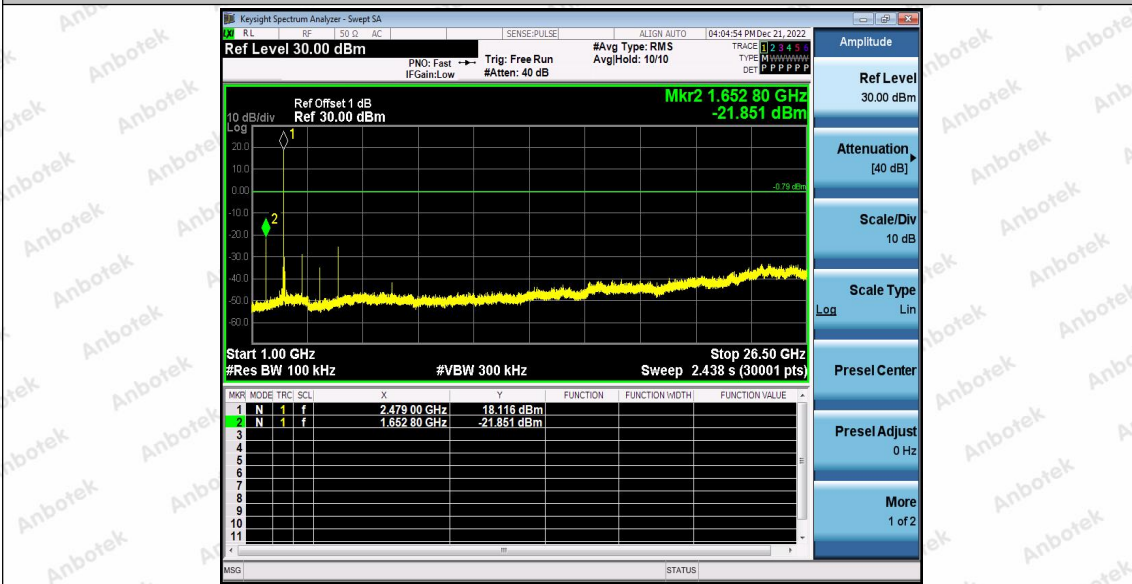
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2.4G_Ant1_2479_1000~26500



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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	2403	4.16	5.72	72.73	1.38
		2441	4.16	5.72	72.73	1.38
		2479	4.16	9.35	44.49	3.52

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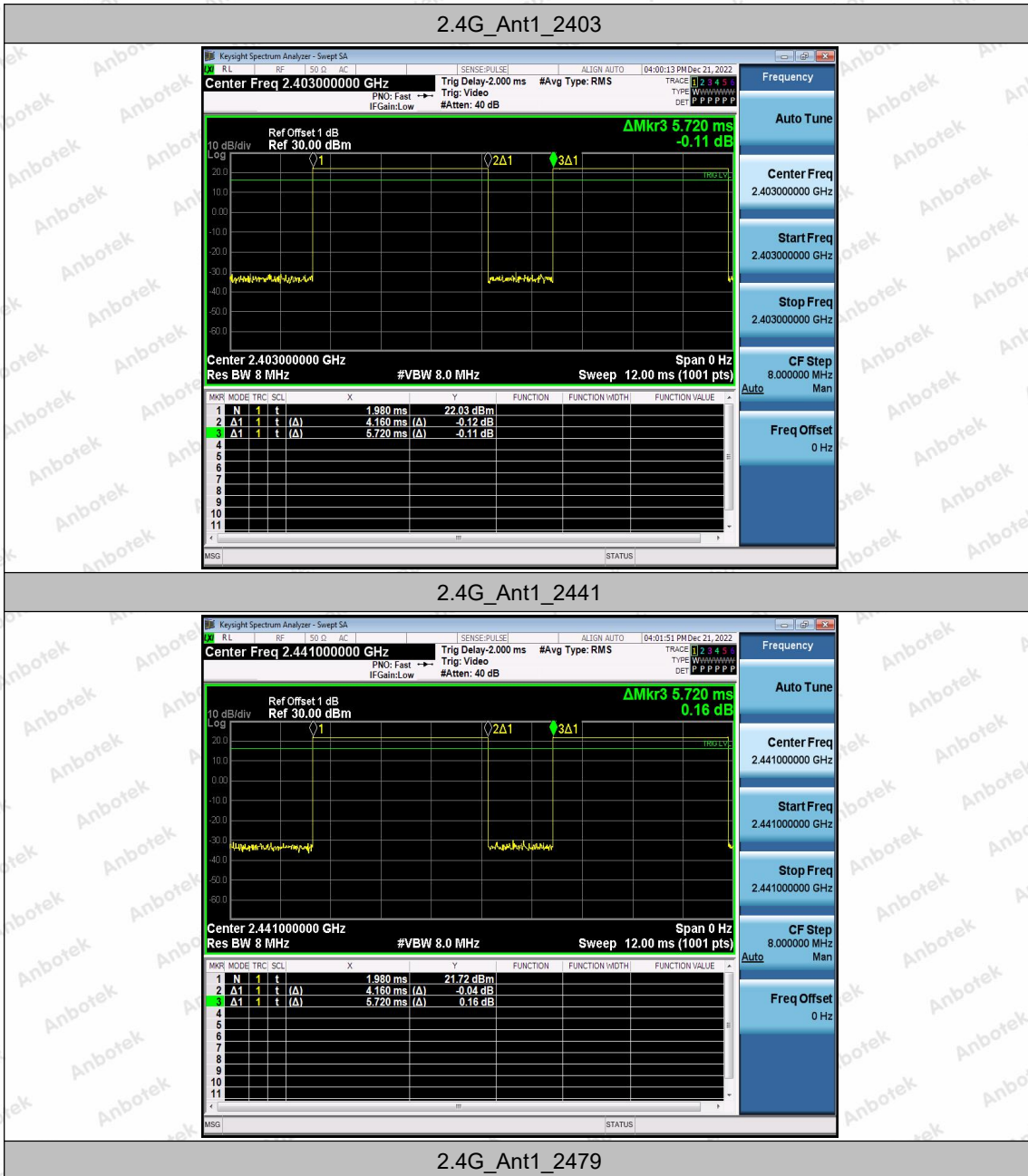
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Test Graphs

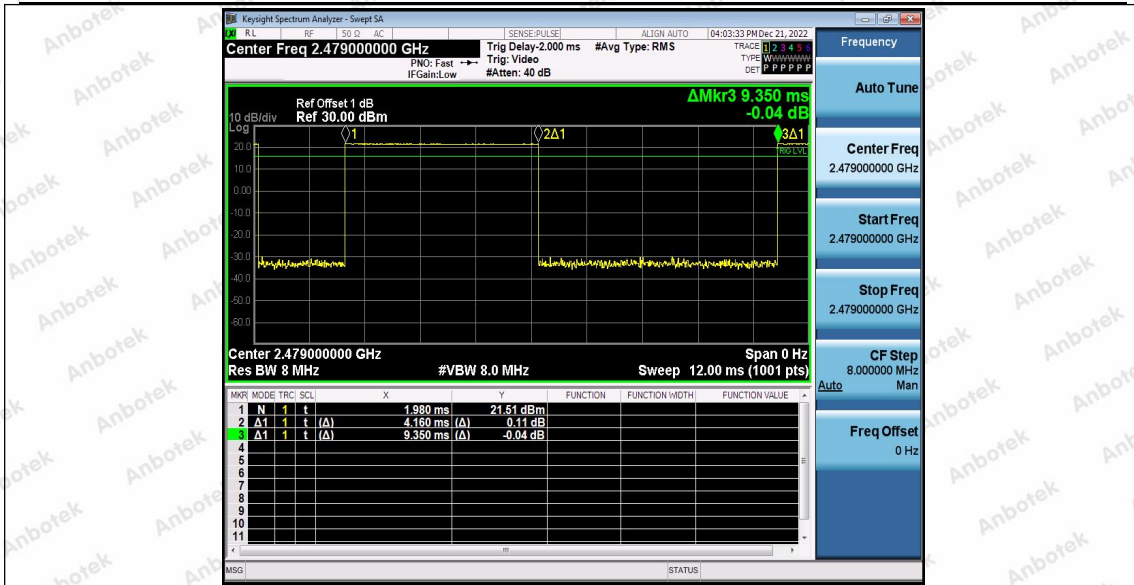


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