

Appendix Test Data

Report No.:	18220WC20215701	Test Sample No.:	1-2-2
Start Test Date:	2022.9.13	Finish Test Date:	2022.9.19
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3C°	Relative Humidity:	47 %
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	2.030	2401.990	2404.020
		2441	2.030	2439.990	2442.020
		2479	2.025	2477.980	2480.005



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

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2403	1.9835	2401.9939	2403.9770
		2441	2.0566	2439.9354	2441.9889
		2479	2.1252	2477.9043	2480.0071



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	2.66	≤20.97	PASS
		2441	2.43	≤20.97	PASS
		2479	2.18	≤20.97	PASS



Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2479

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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	1.98	≥1.353	PASS



Test Graphs



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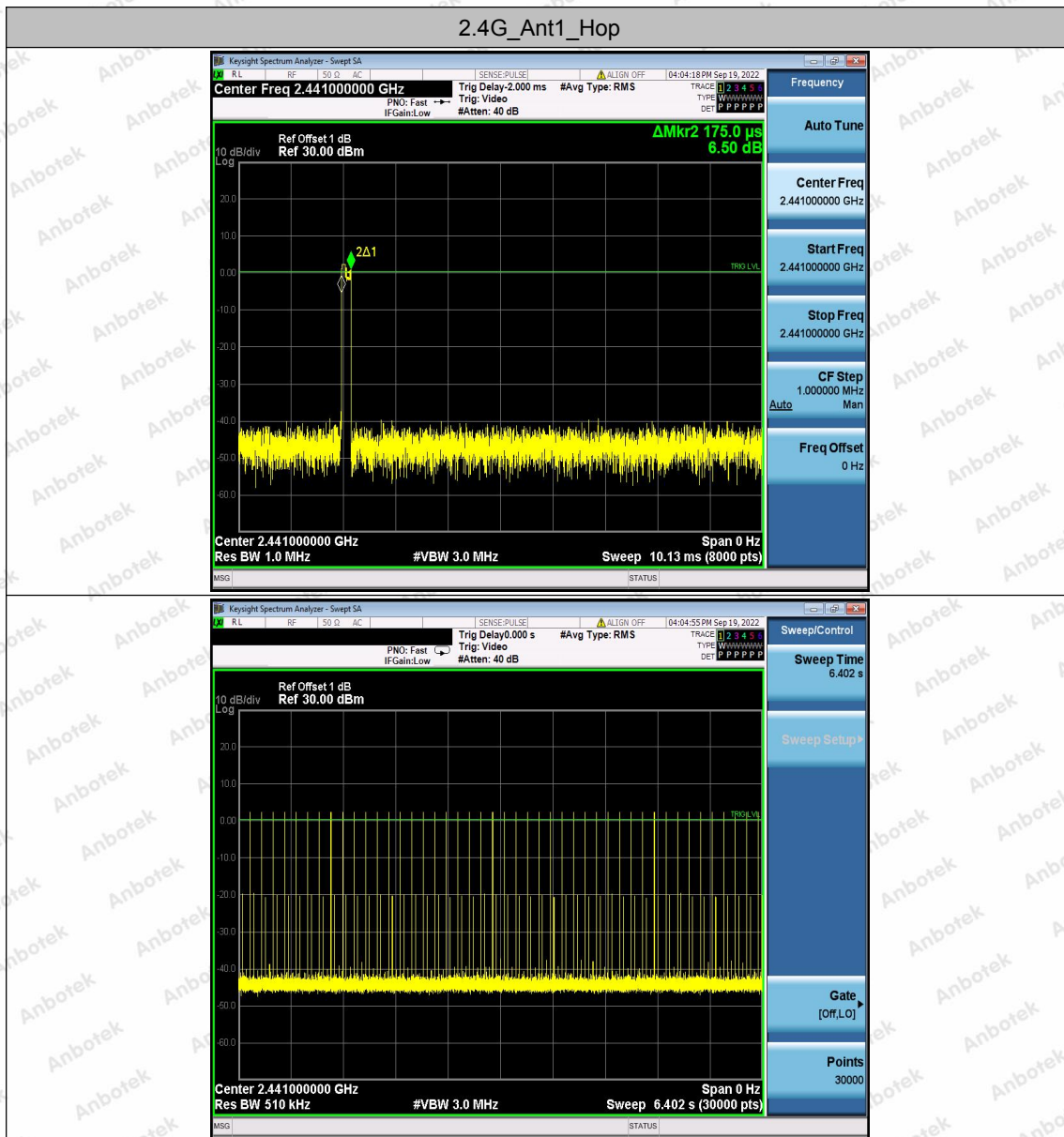
Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	0.175	45	0.008	≤0.4	PASS



Test Graphs



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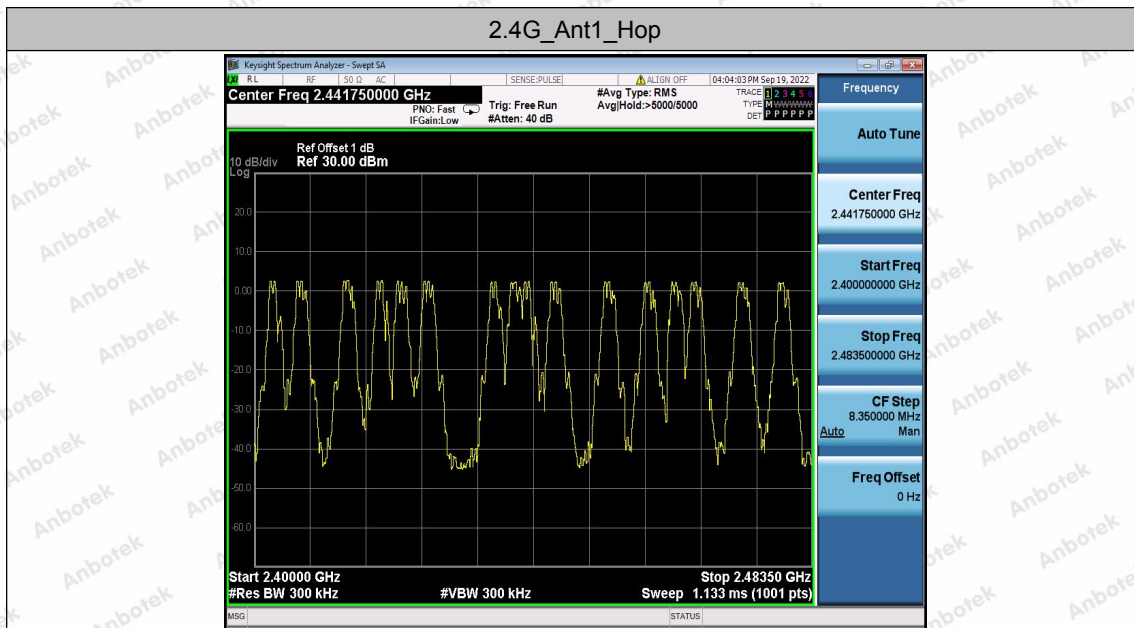
Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	16	≥15	PASS



Test Graphs



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Appendix G: Band edge measurements

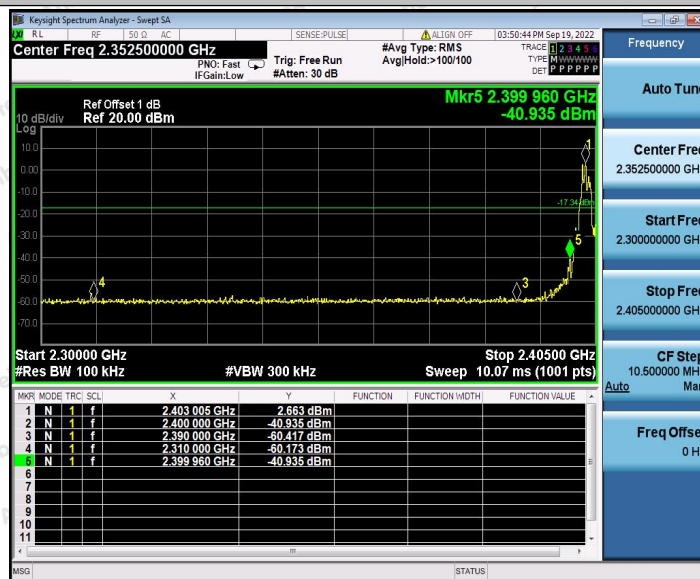
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	2.66	-40.94	≤-17.34	PASS
		High	2479	2.20	-53.23	≤-17.8	PASS
		Low	Hop_2402	2.60	-55.33	≤-17.4	PASS
		High	Hop_2480	2.22	-48.55	≤-17.78	PASS

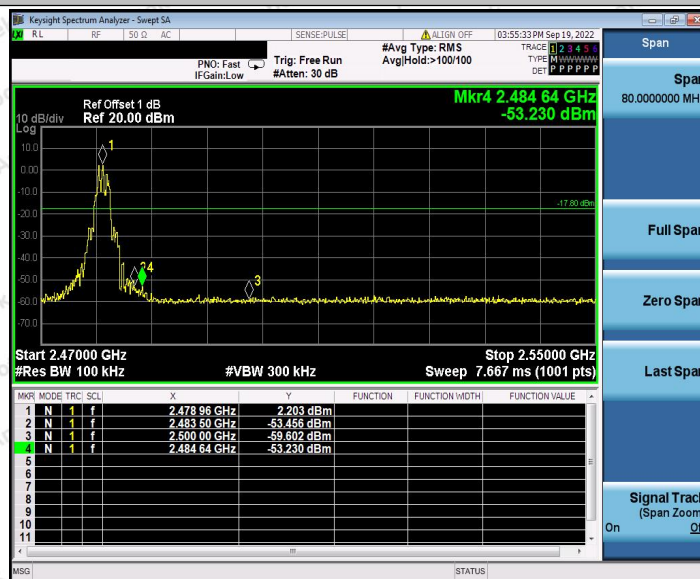


Test Graphs

2.4G_Ant1_Low_2403



2.4G_Ant1_High_2479



2.4G_Ant1_Low_Hop_2402

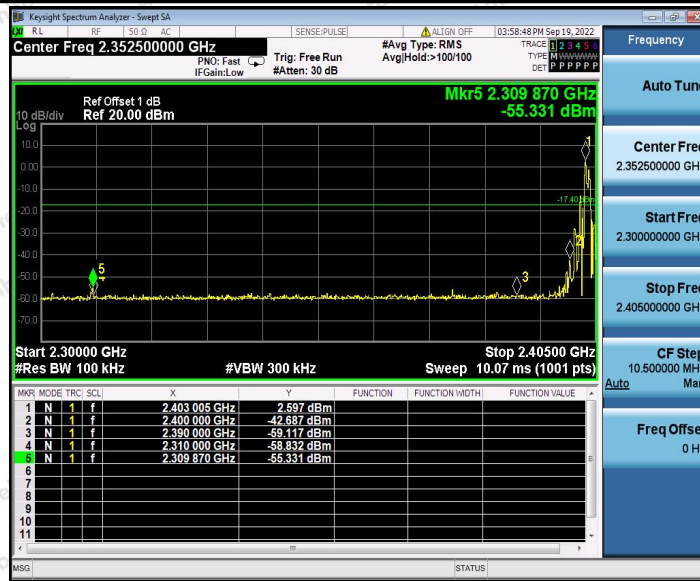
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2.4G_Ant1_High_Hop_2480



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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	2.55	2.55	---	PASS
			30~1000	2.55	-68.54	≤-27.45	PASS
			1000~26500	2.55	-53.45	≤-27.45	PASS
		2441	Reference	-9.07	-9.07	---	PASS
			30~1000	-9.07	-68.5	≤-39.07	PASS
			1000~26500	-9.07	-50.83	≤-39.07	PASS
		2479	Reference	-6.86	-6.86	---	PASS
			30~1000	-6.86	-68.38	≤-36.86	PASS
			1000~26500	-6.86	-49.22	≤-36.86	PASS



Test Graphs



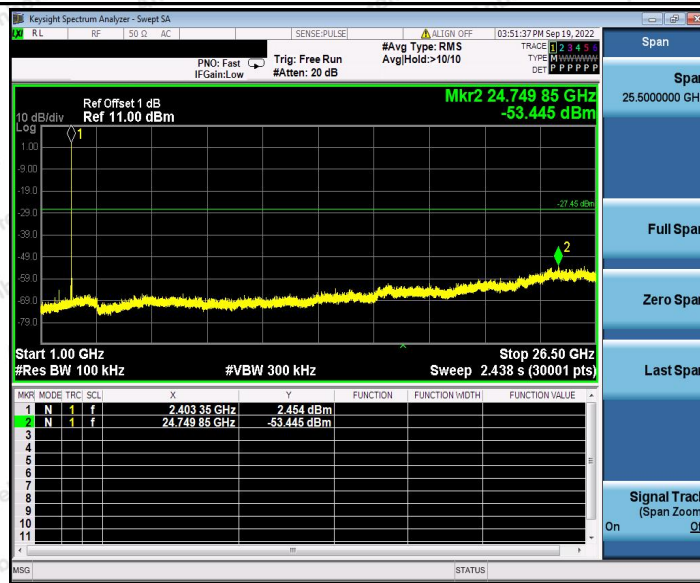
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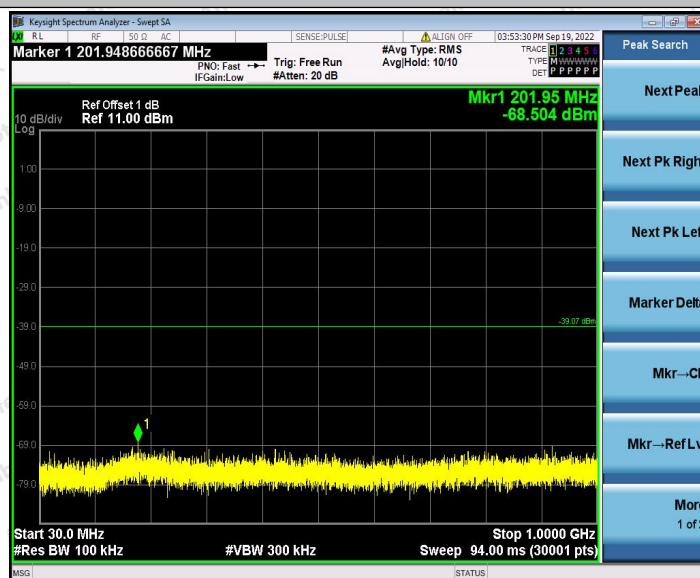




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



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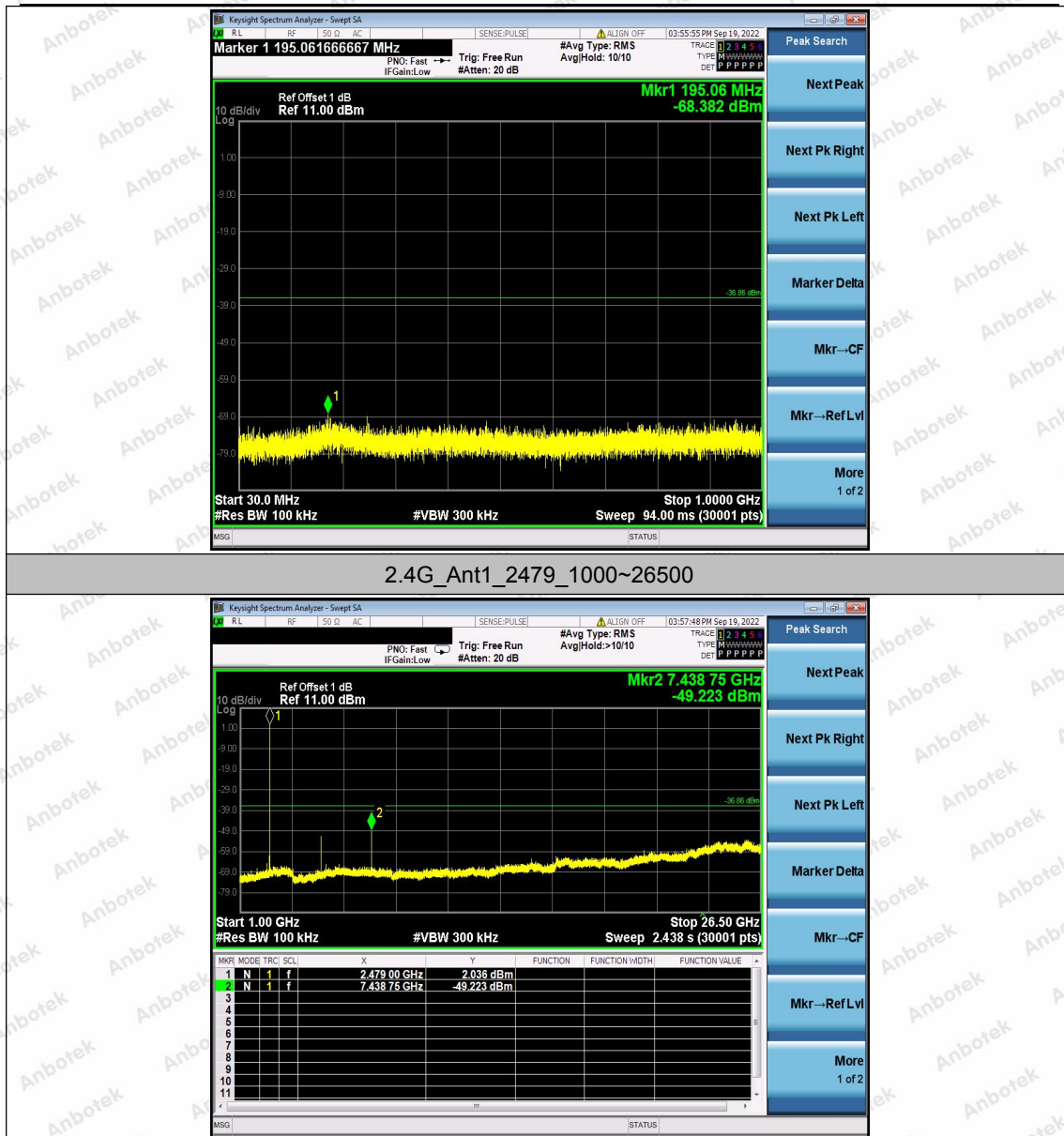
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Appendix I: Duty Cycle

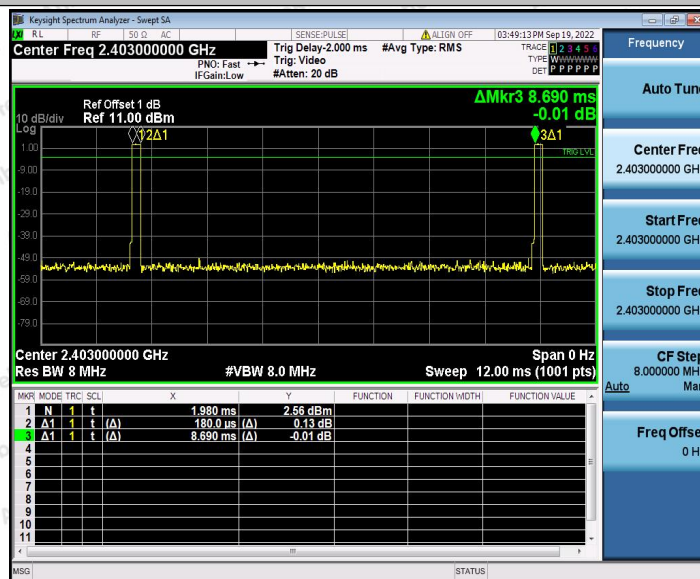
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	0.18	8.69	2.07	16.84
		2441	0.17	8.68	1.96	17.08
		2479	0.17	8.66	1.96	17.08

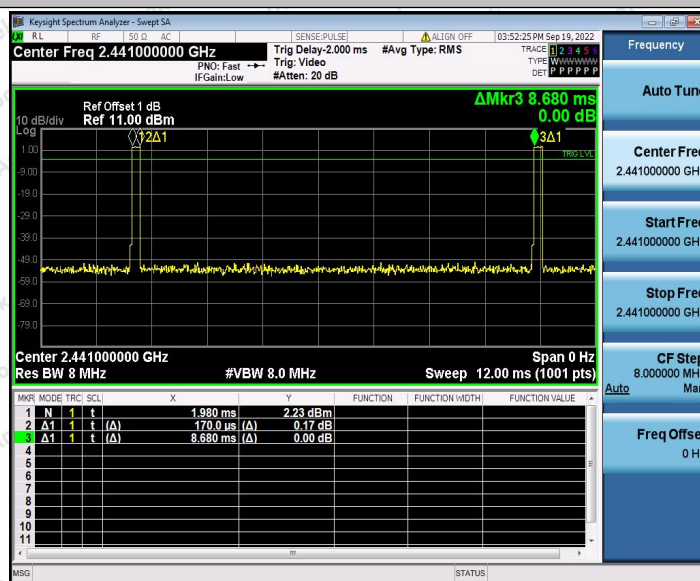


Test Graphs

2.4G_Ant1_2403



2.4G_Ant1_2441



2.4G_Ant1_2479

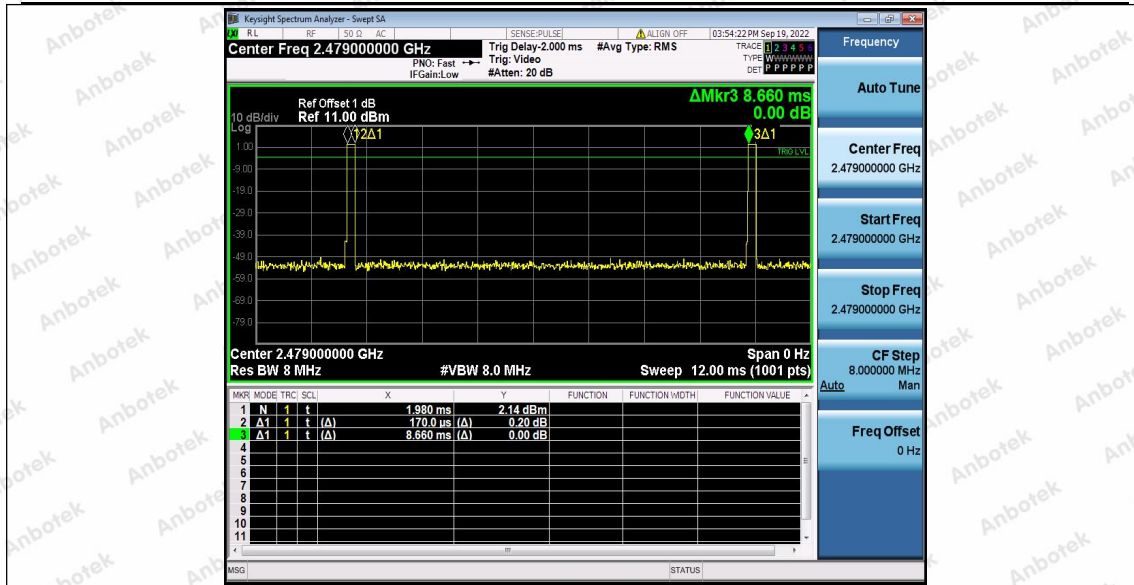
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