

## Appendix Test Data

Report No.:	18220WC30256901	Test Sample No.:	1-2-2
Start Test Date:	2023.12.11	Finish Test Date:	2023.12.11
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.9°C	Relative Humidity:	45%
Pressure:	101kPa		

## Appendix A: 20dB Emission Bandwidth

## Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403.9	0.150	2403.878	2404.029	---	---
		2439	0.151	2438.969	2439.120	---	---
		2474.1	0.150	2474.060	2474.210	---	---

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## Test Graphs

2.4G\_Ant1\_2403.9



2.4G\_Ant1\_2439



2.4G\_Ant1\_2474.1

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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	2403.9	0.17249	2403.8652	2404.0377	---	---
		2439	0.18004	2438.9516	2439.1316	---	---
		2474.1	0.18029	2474.0428	2474.2231	---	---

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## Test Graphs

2.4G\_Ant1\_2403.9



2.4G\_Ant1\_2439



2.4G\_Ant1\_2474.1

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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	2403.9	21.49	≤30	PASS
		2439	20.75	≤30	PASS
		2474.1	20.28	≤30	PASS



## Test Graphs

2.4G\_Ant1\_2403.9



2.4G\_Ant1\_2439



2.4G\_Ant1\_2474.1

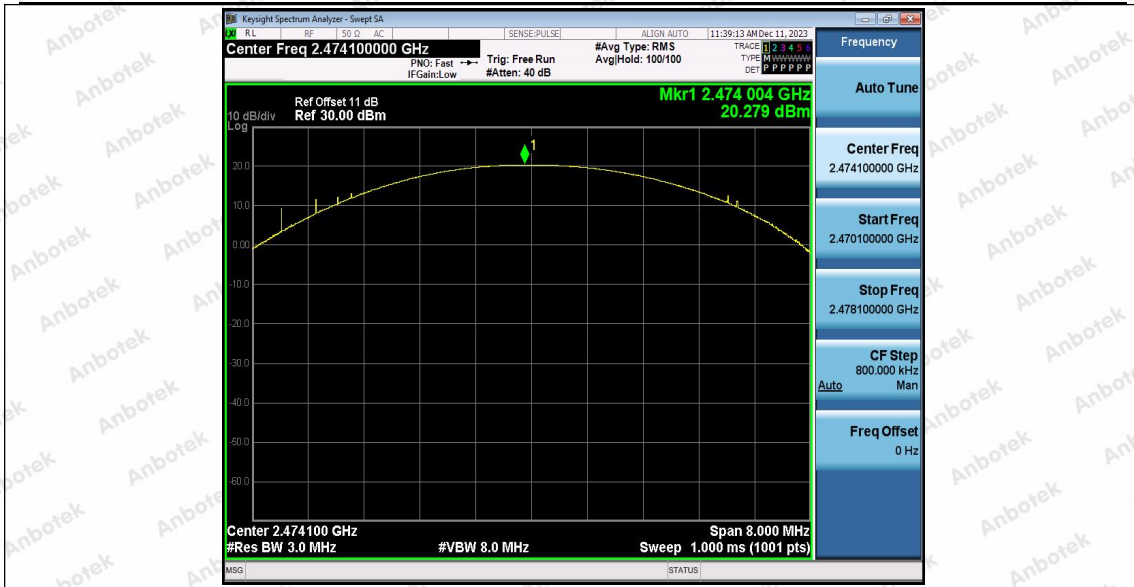
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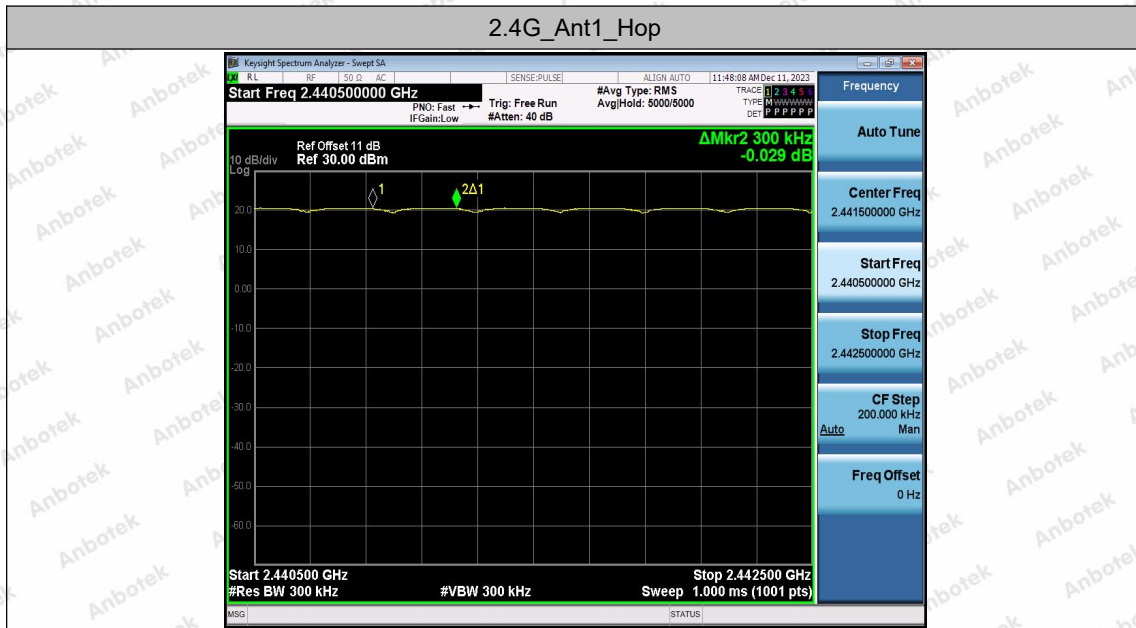


## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	0.300	≥0.151	PASS

### Test Graphs

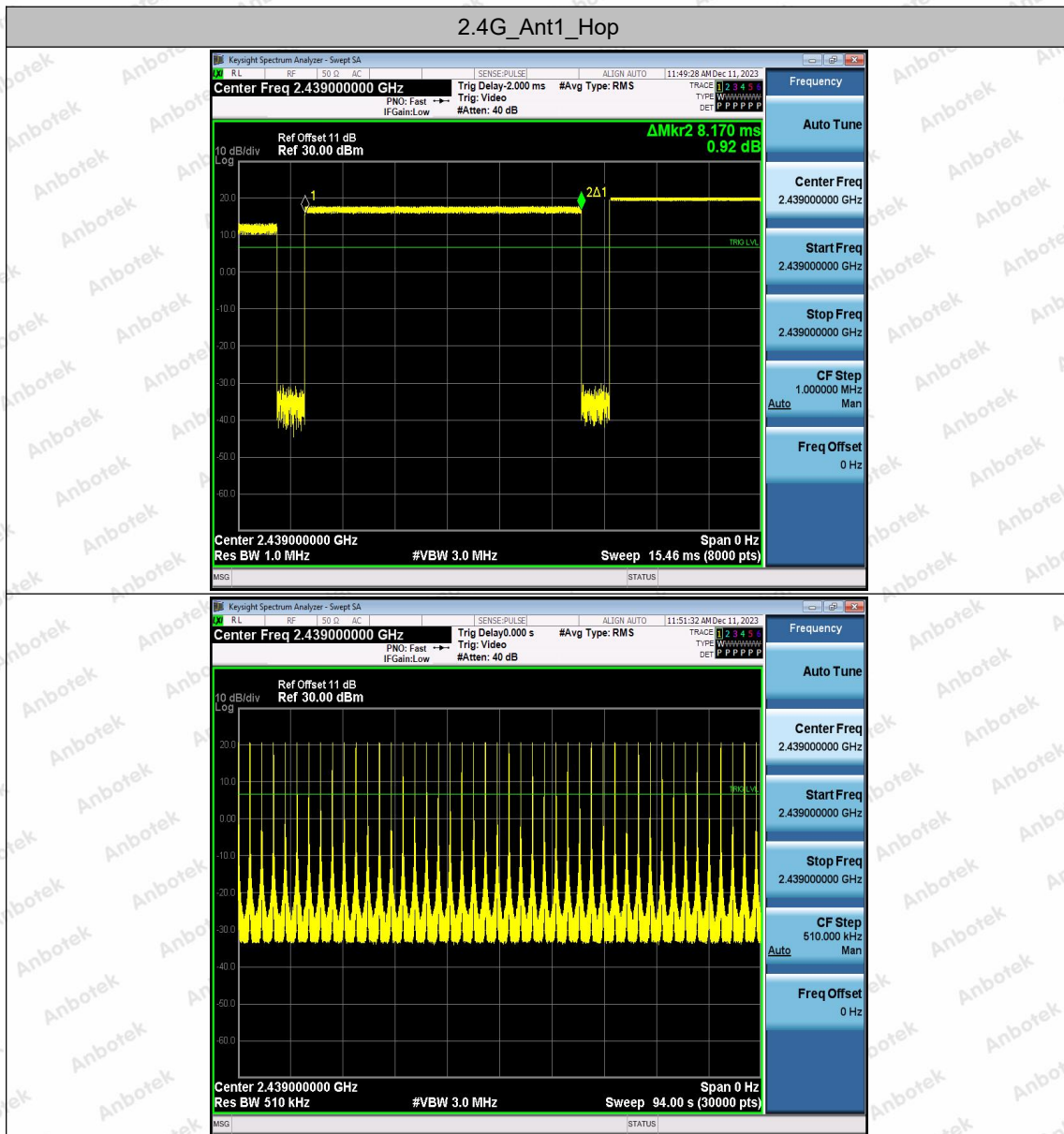


## Appendix E: Time of occupancy

### Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	8.170	45	0.368	≤0.4	PASS

### Test Graphs



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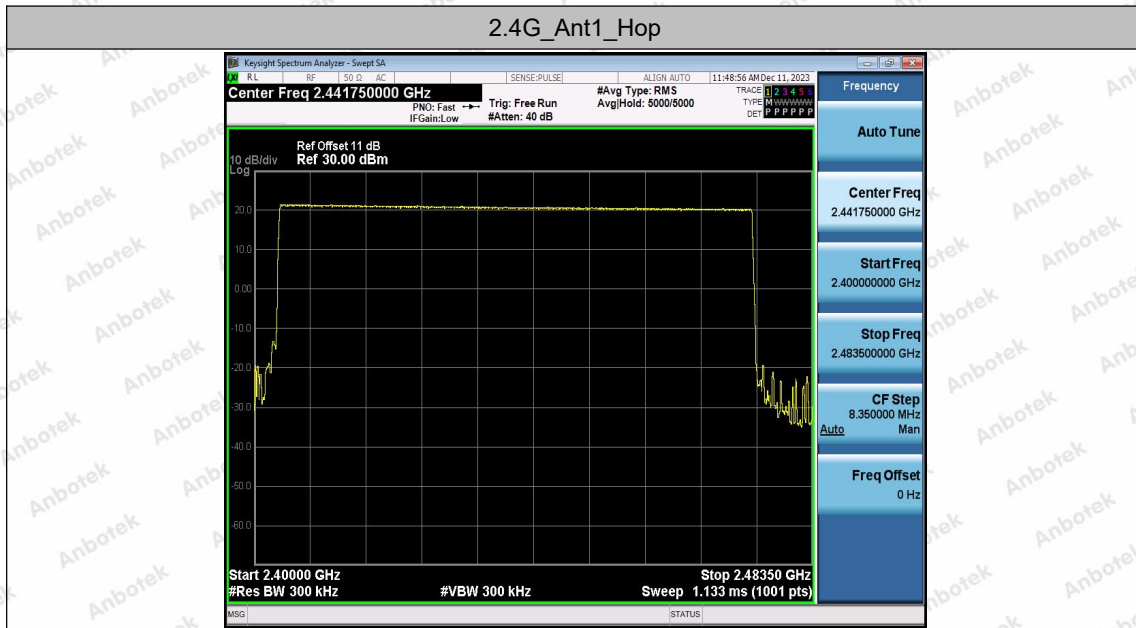


## Appendix F: Number of hopping channels

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	235	≥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	2403.9	21.82	-22.72	≤1.82	PASS
		High	2474.1	20.63	-30.51	≤0.63	PASS
		Low	Hop_2403.9	21.60	-33.06	≤1.6	PASS
		High	Hop_2474.1	20.46	-36.58	≤0.46	PASS

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## Test Graphs

2.4G\_Ant1\_Low\_2403.9



2.4G\_Ant1\_High\_2474.1



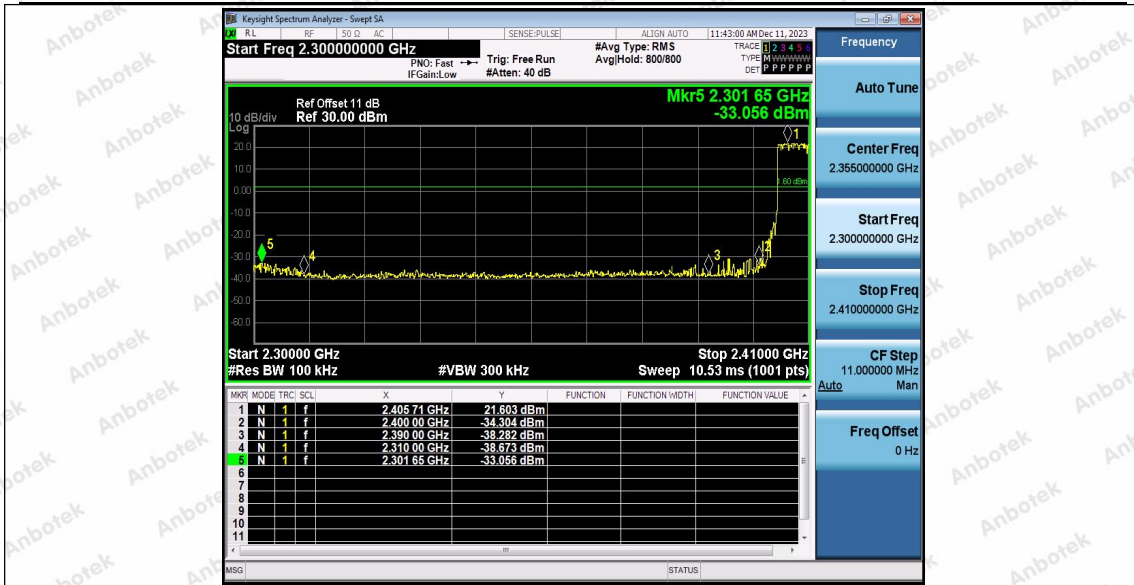
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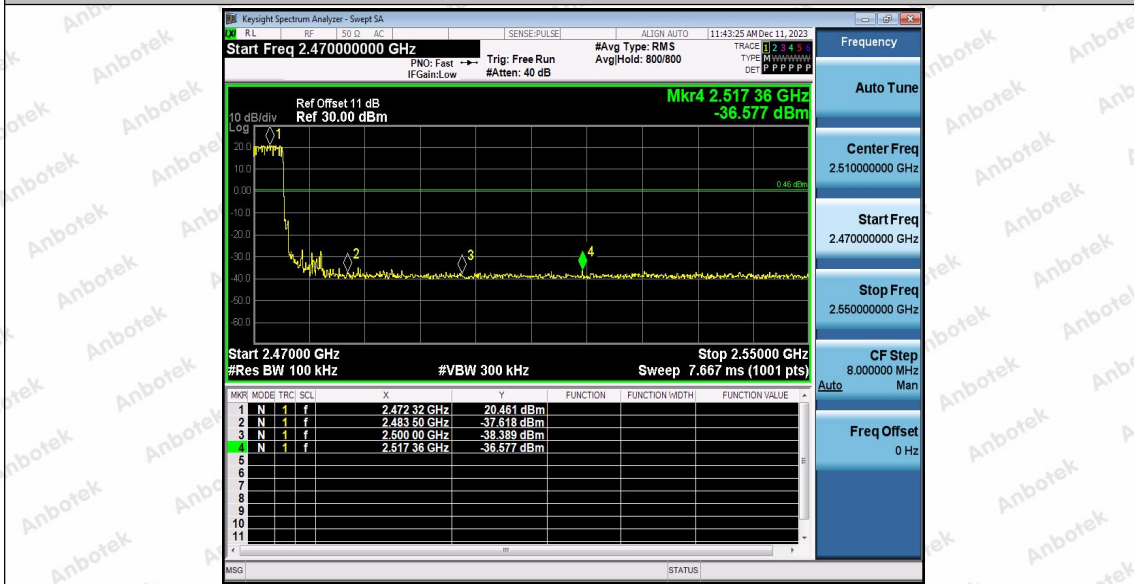
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2.4G\_Ant1\_High\_Hop\_2474.1



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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	2403.9	Reference	21.42	21.42	---	PASS
			30~1000	21.42	-59.12	≤1.42	PASS
			1000~26500	21.42	-22.54	≤1.42	PASS
		2439	Reference	20.72	20.72	---	PASS
			30~1000	20.72	-59.35	≤0.72	PASS
			1000~26500	20.72	-23.77	≤0.72	PASS
		2474.1	Reference	20.28	20.28	---	PASS
			30~1000	20.28	-59.20	≤0.28	PASS
			1000~26500	20.28	-23.12	≤0.28	PASS

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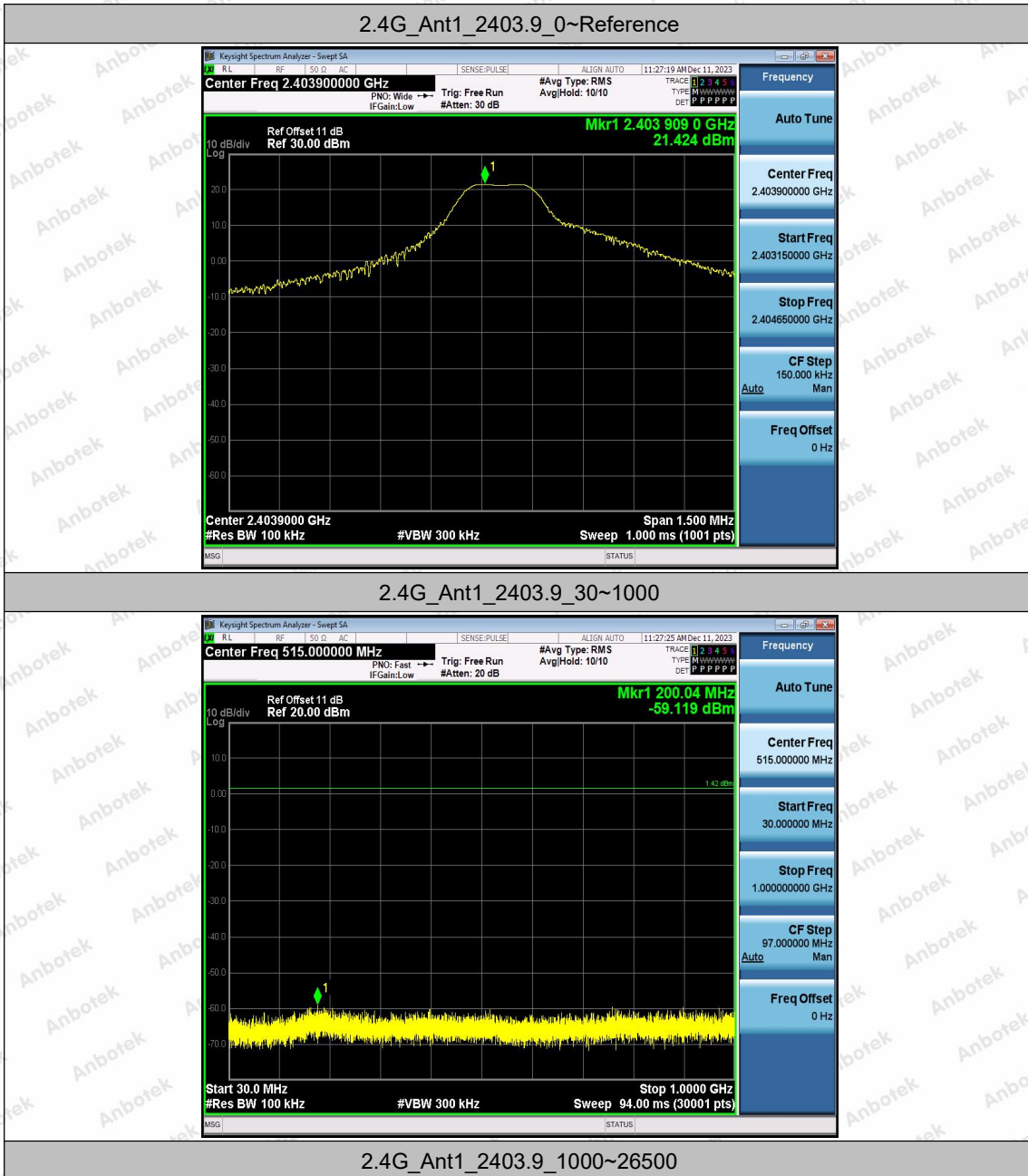


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## Test Graphs

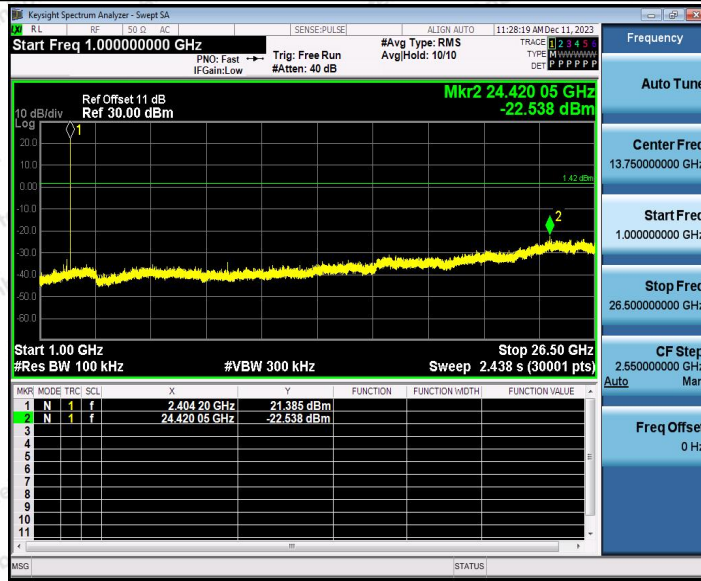


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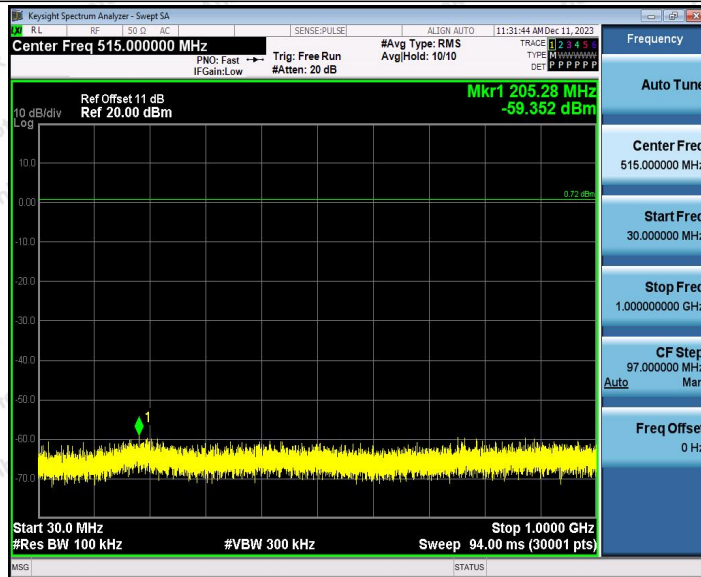




2.4G\_Ant1\_2439\_0~Reference



2.4G\_Ant1\_2439\_30~1000

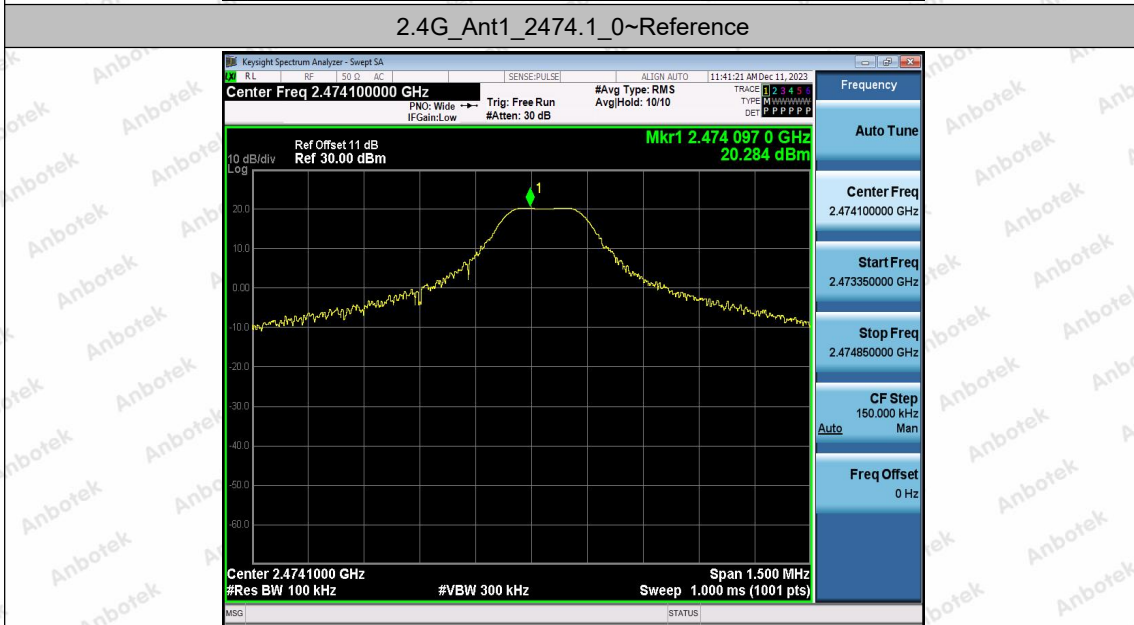
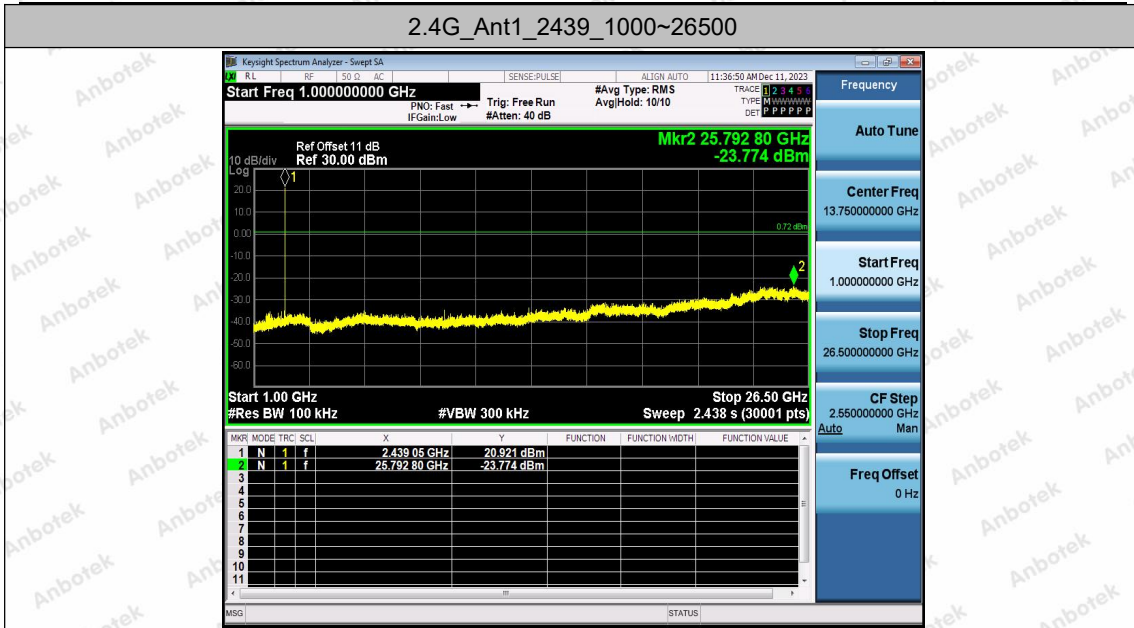


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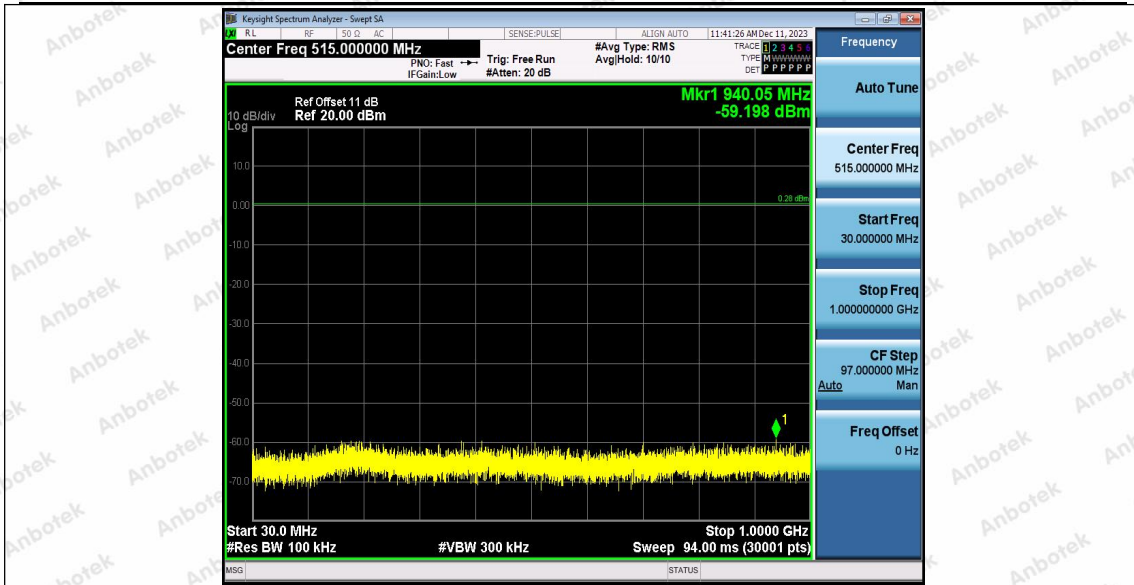
2.4G\_Ant1\_2474.1\_30~1000

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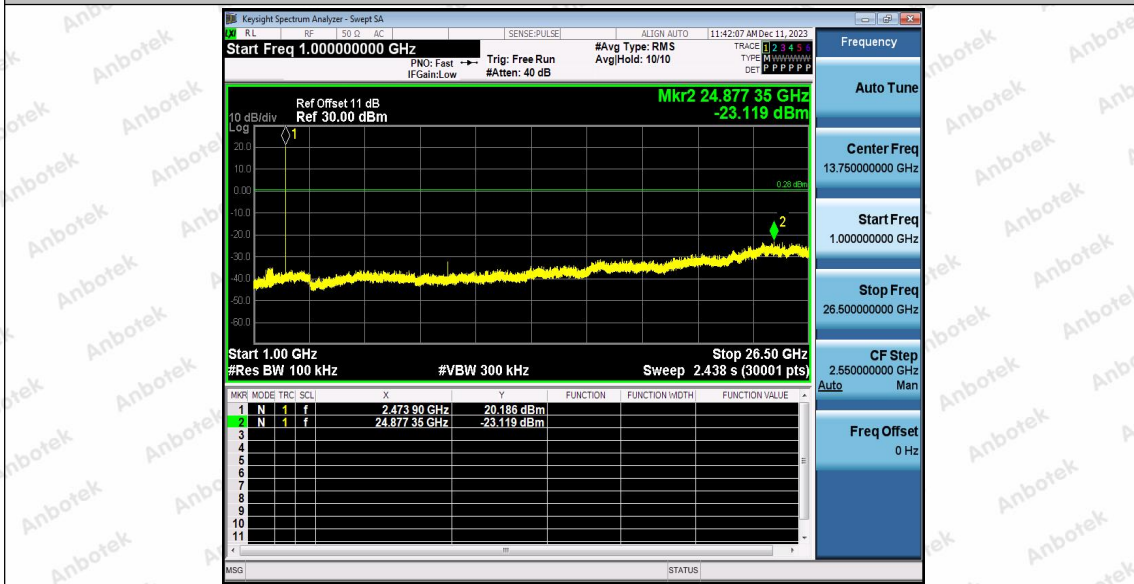
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2.4G\_Ant1\_2474.1\_1000~26500



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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	2403.9	4.38	9.00	48.67	3.13
		2439	4.35	9.00	48.33	3.16
		2474.1	4.38	9.00	48.67	3.13

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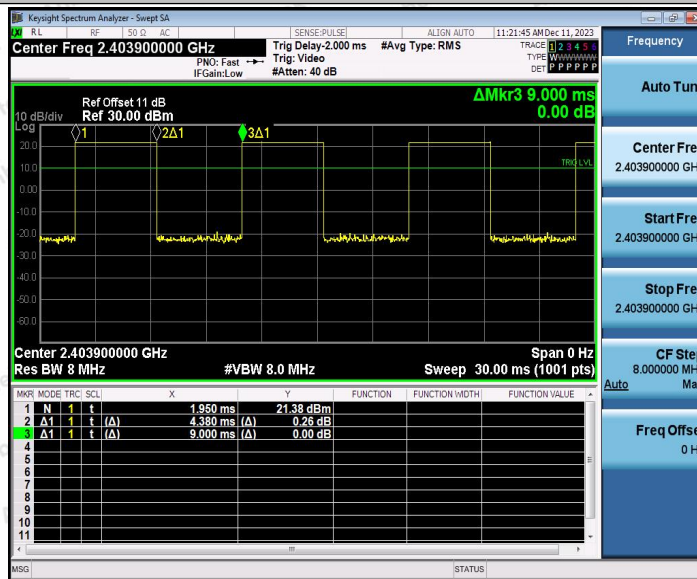


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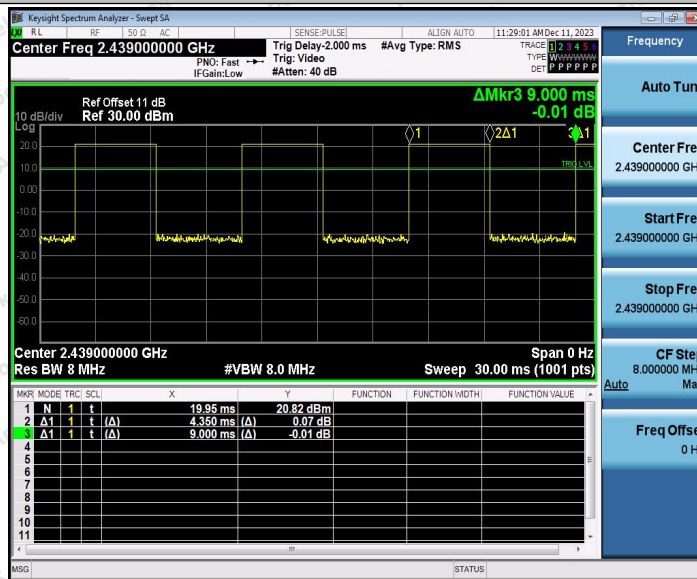


## Test Graphs

2.4G\_Ant1\_2403.9



2.4G\_Ant1\_2439



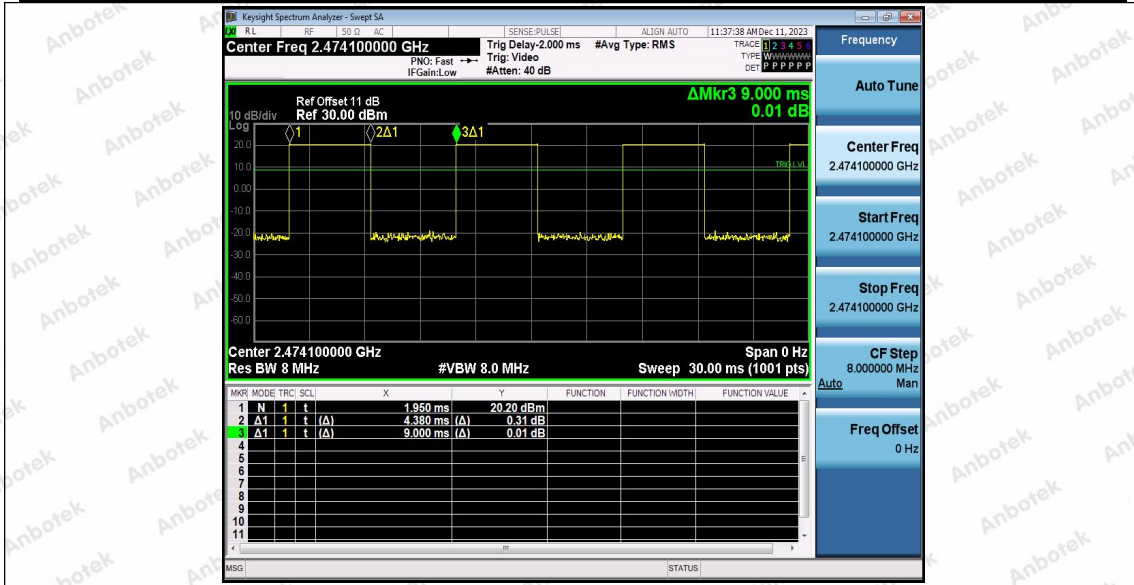
2.4G\_Ant1\_2474.1

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