

Appendix Test Data

Report No.:	18220WC20261902	Test Sample No.:	1-2-2
Start Test Date:	2022.11.11	Finish Test Date:	2022.12.09
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3°C	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2402.4	0.768	2402.019	2402.787
		2441.4	0.798	2440.995	2441.793
		2479.4	0.795	2478.998	2479.793

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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]
2.4G	Ant1	2402.4	0.72934	2402.0371	2402.7665
		2441.4	0.74152	2441.0257	2441.7672
		2479.4	0.73227	2479.0319	2479.7642

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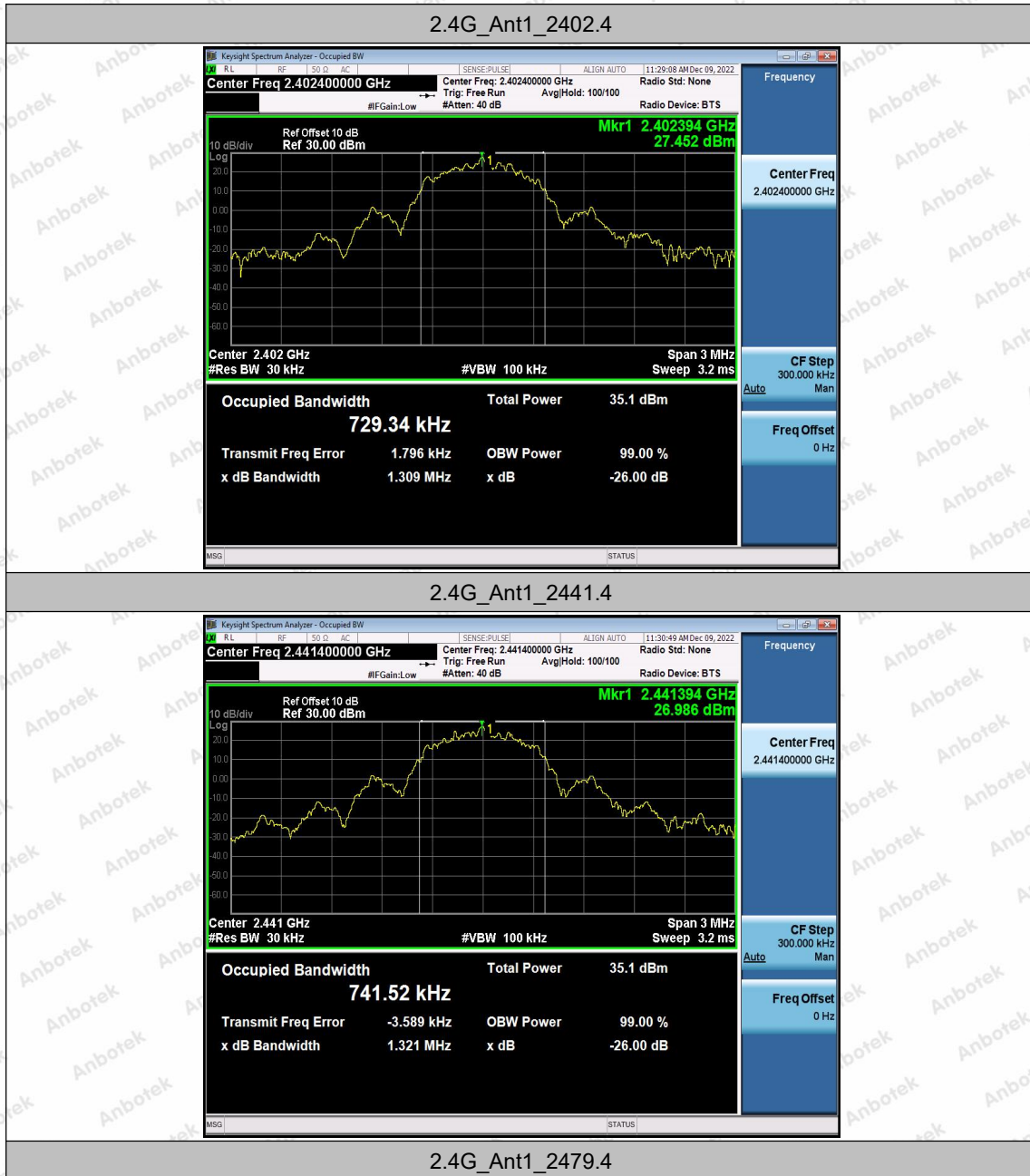
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Test Graphs



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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	2402.4	28.51	≤30	PASS
		2441.4	28.32	≤30	PASS
		2479.4	28.38	≤30	PASS

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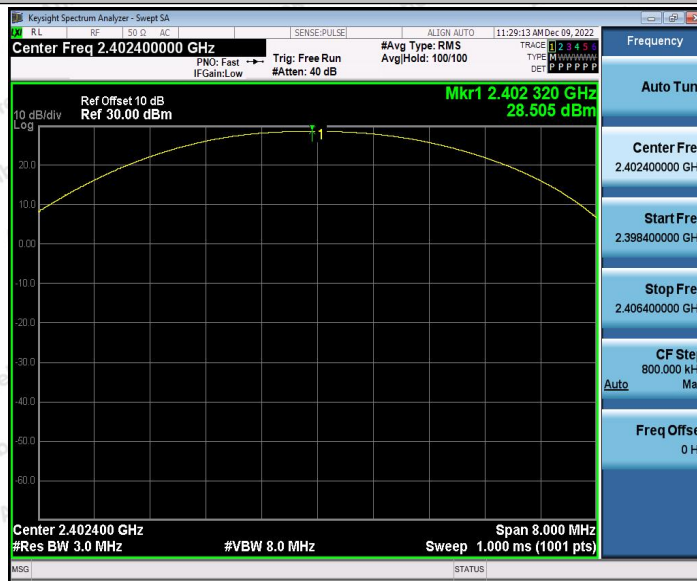


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Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



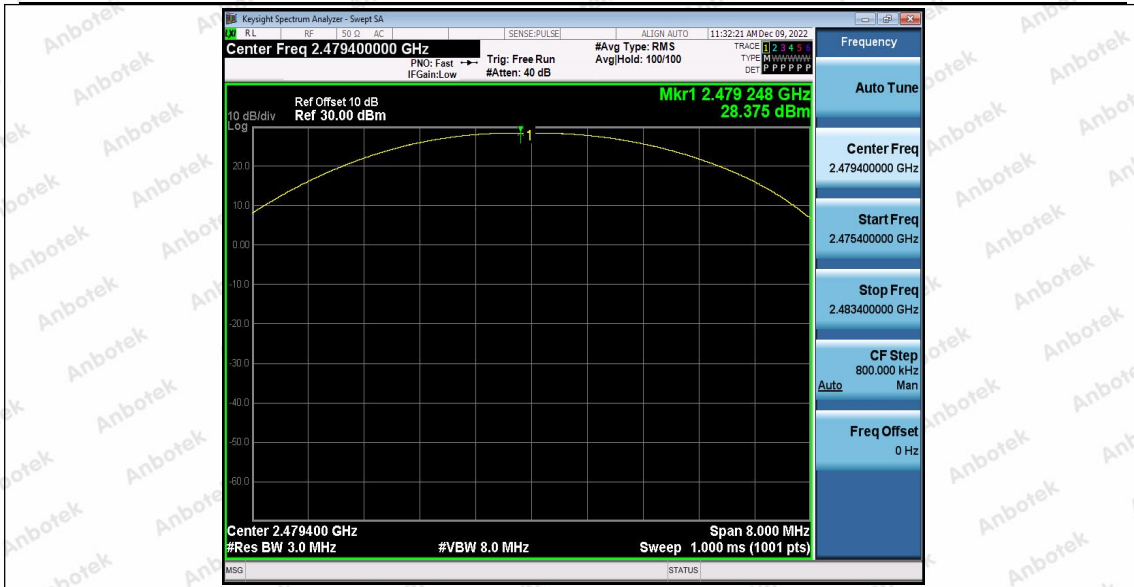
2.4G_Ant1_2479.4

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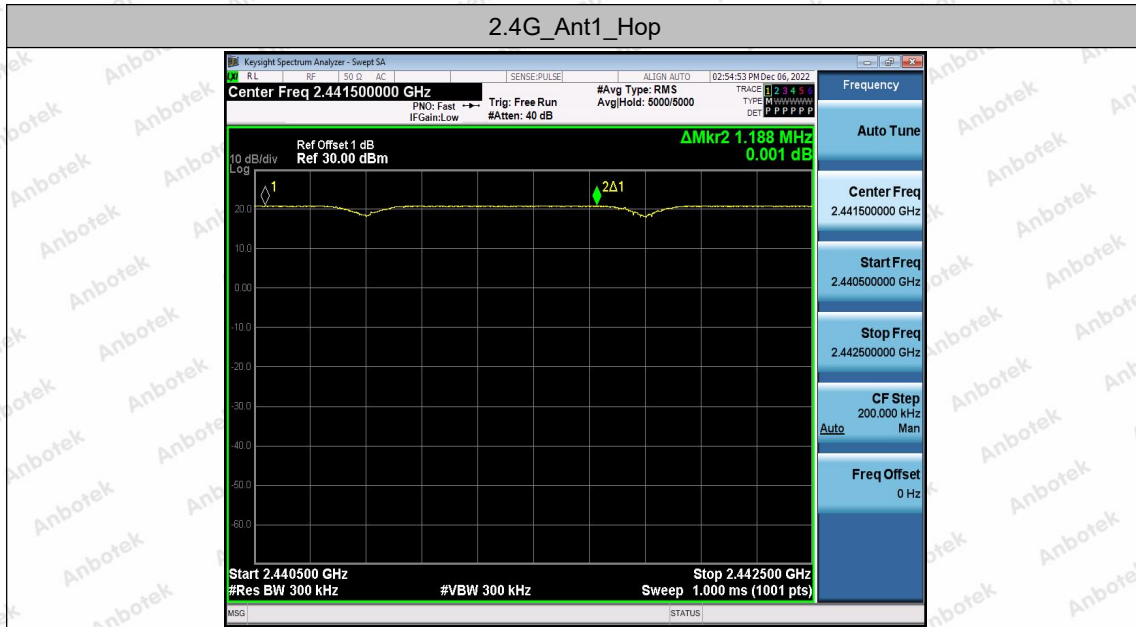
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	1.188	≥0.798	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	1.536	50	0.077	≤0.4	PASS



Test Graphs



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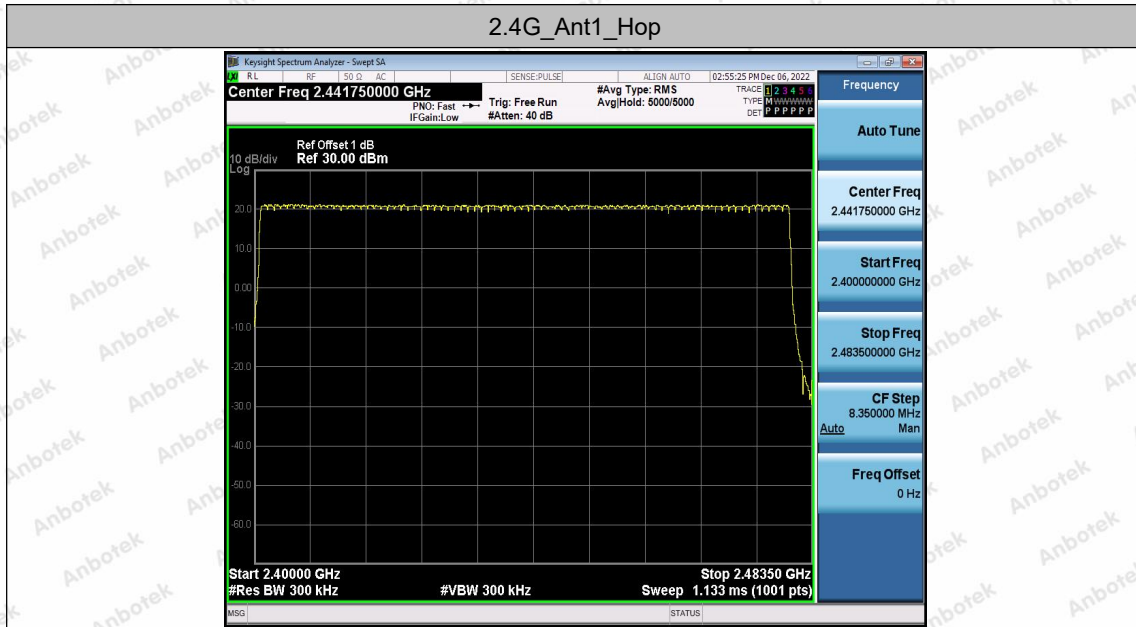
Appendix F: Number of hopping channels

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	28.22	-14.82	≤8.22	PASS
		High	2479.4	28.39	-32.29	≤8.39	PASS
		Low	Hop_2402	19.65	-44.84	≤-0.35	PASS
		High	Hop_2480	20.66	-45.07	≤0.66	PASS

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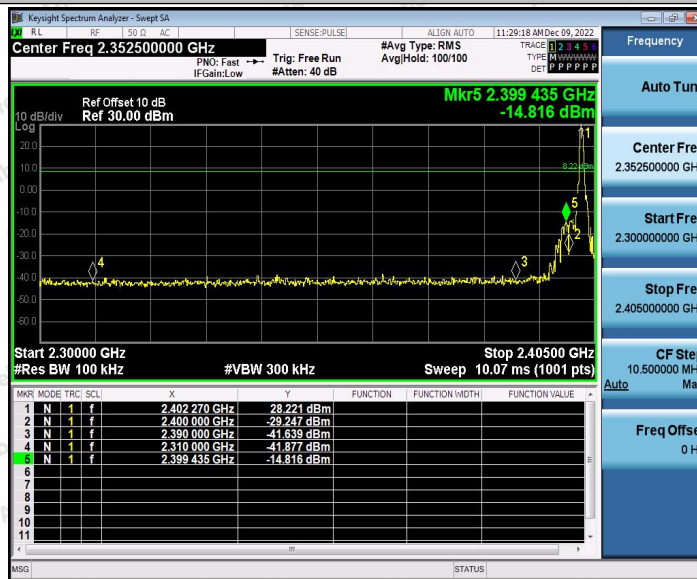


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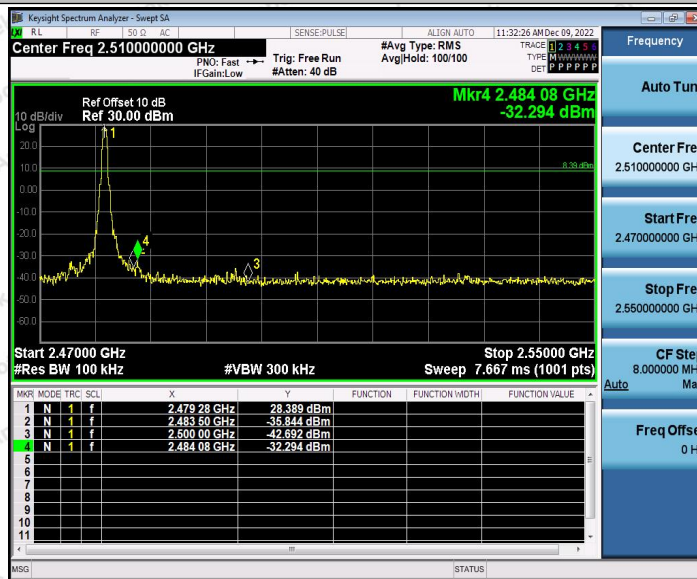


Test Graphs

2.4G_Ant1_Low_2402.4



2.4G_Ant1_High_2479.4



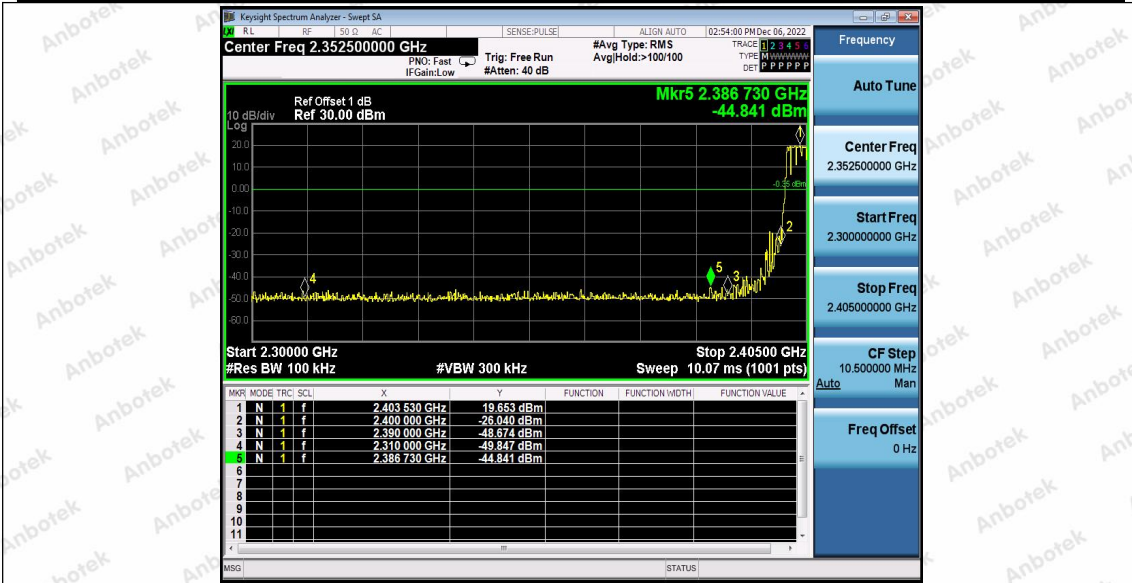
2.4G_Ant1_Low_Hop_2402

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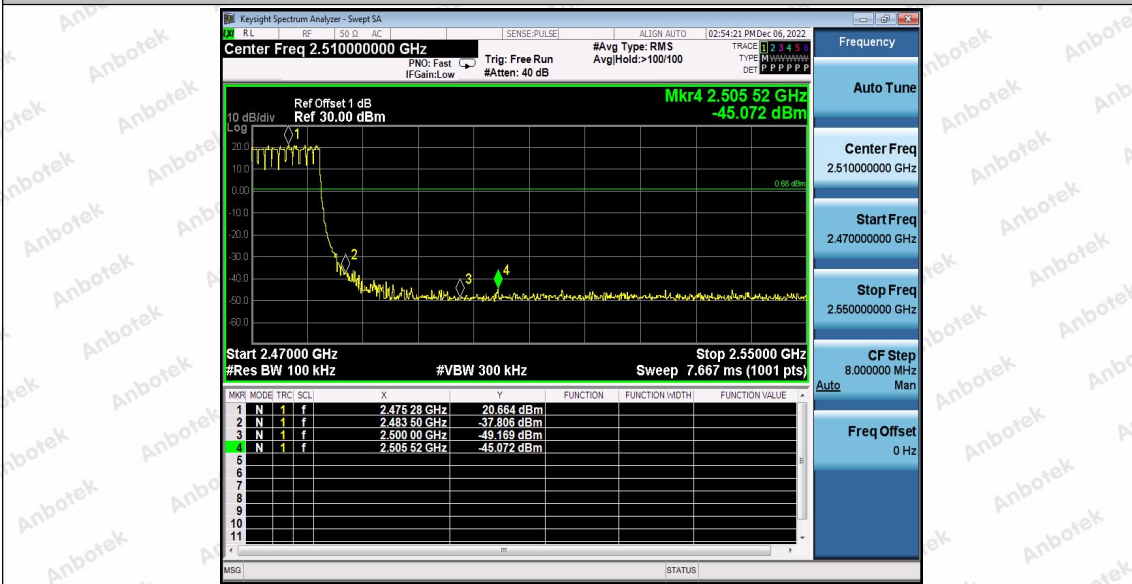
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2.4G_Ant1_High_Hop_2480



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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	2402.4	Reference	27.80	27.80	---	PASS
			30~1000	27.80	-59.7	≤7.8	PASS
			1000~26500	27.80	-44.23	≤7.8	PASS
		2441.4	Reference	28.19	28.19	---	PASS
			30~1000	28.19	-59.5	≤8.19	PASS
			1000~26500	28.19	-43.72	≤8.19	PASS
		2479.4	Reference	27.26	27.26	---	PASS
			30~1000	27.26	-59.13	≤7.26	PASS
			1000~26500	27.26	-43.24	≤7.26	PASS



Test Graphs

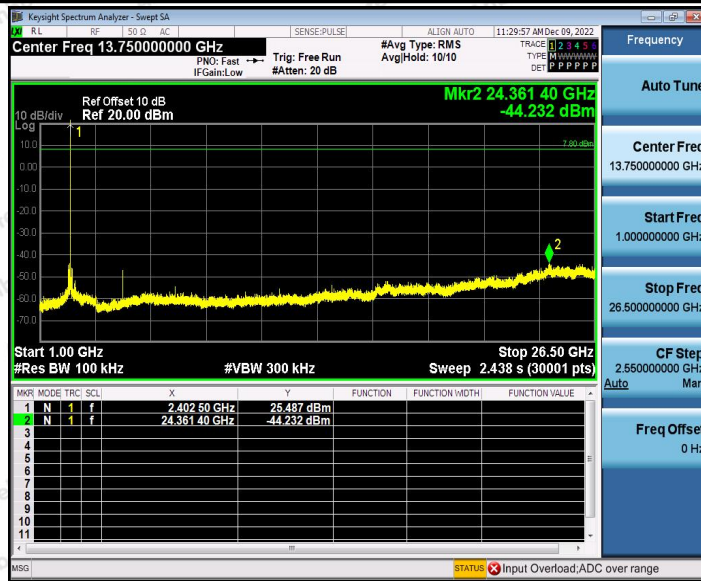


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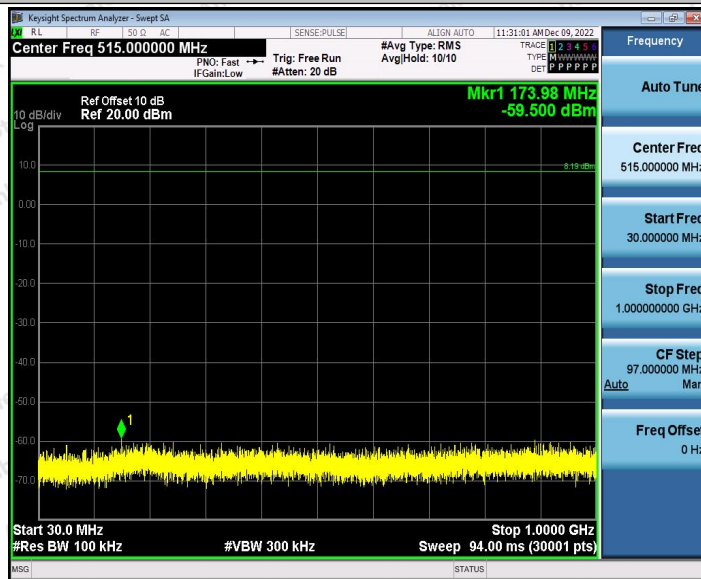




2.4G_Ant1_2441.4_0~Reference



2.4G_Ant1_2441.4_30~1000

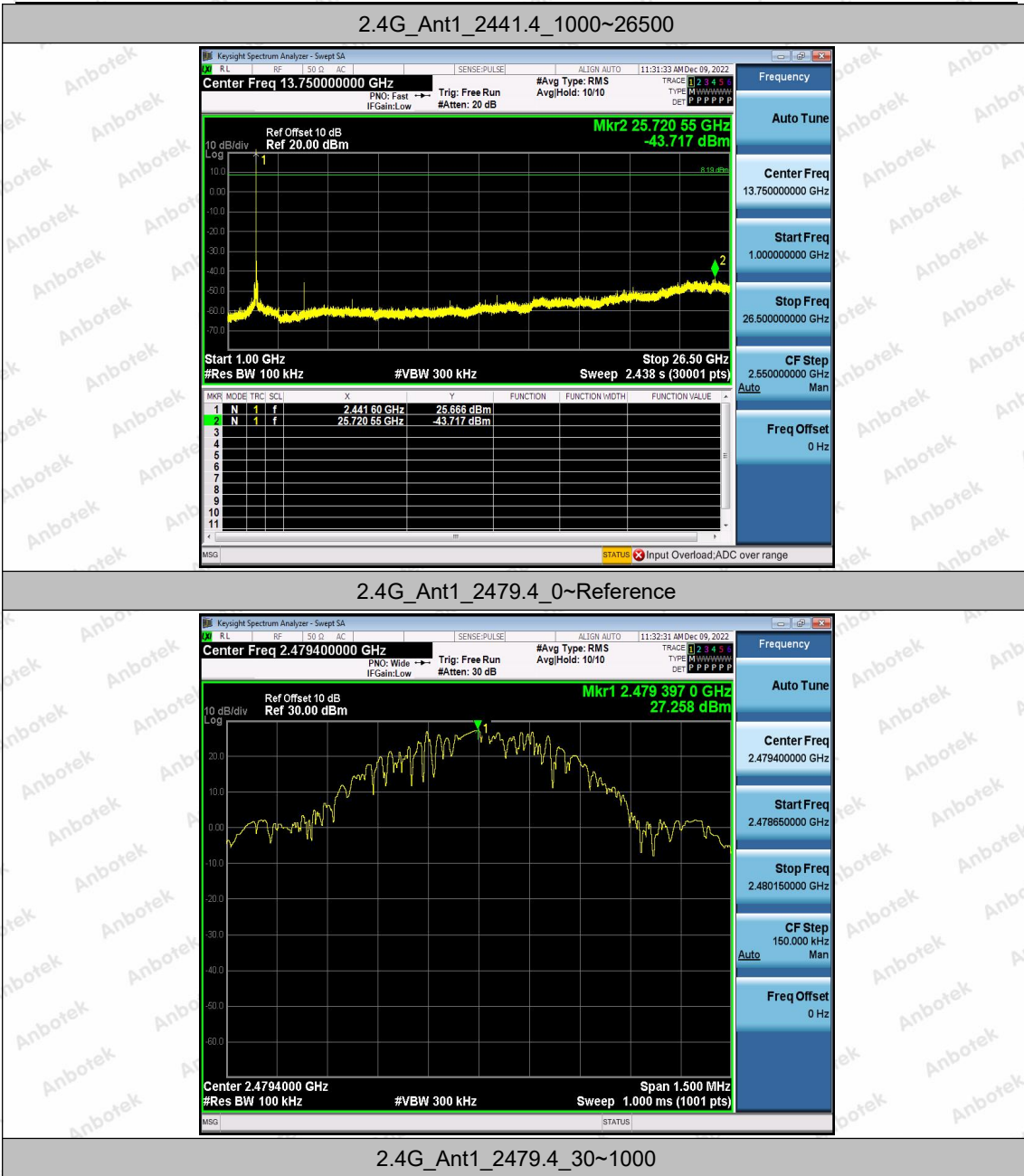


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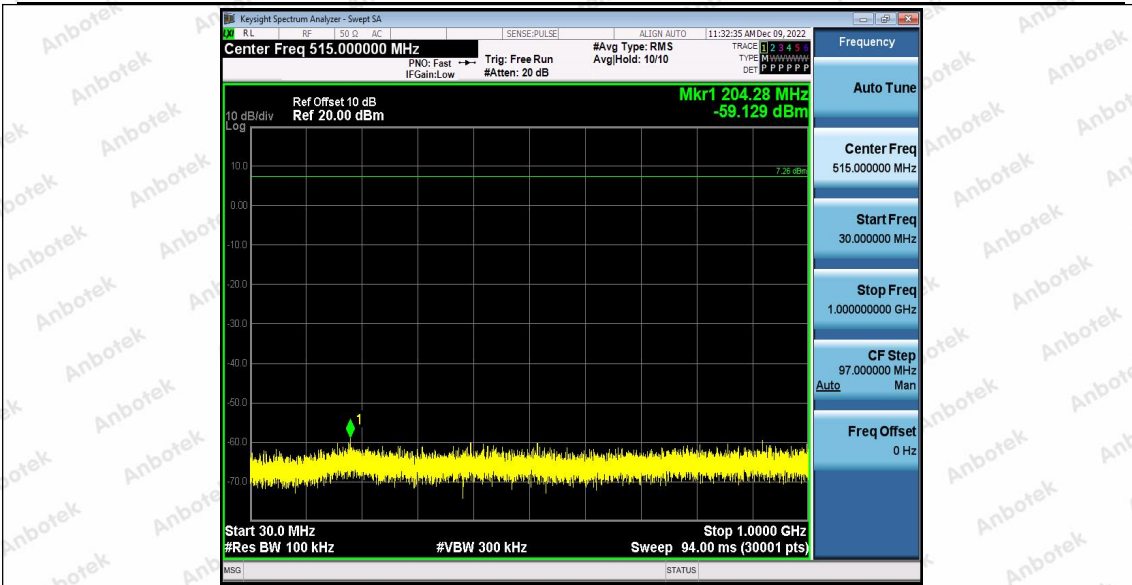


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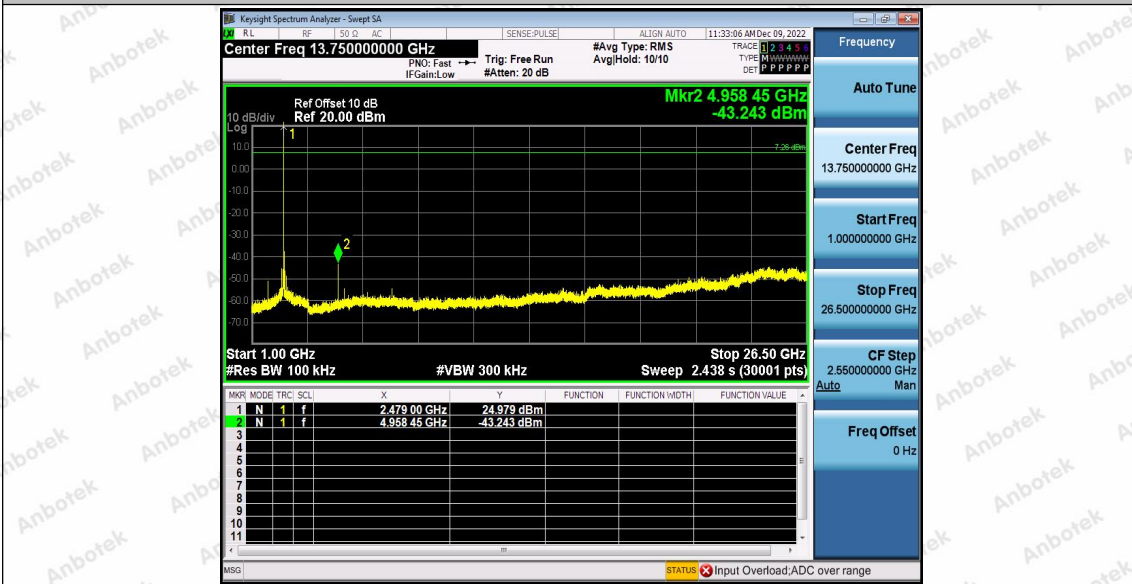
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2.4G_Ant1_2479.4_1000~26500



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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	2402.4	0.45	1.00	45.00	3.47
		2441.4	0.45	1.00	45.00	3.47
		2479.4	0.44	0.99	44.44	3.52

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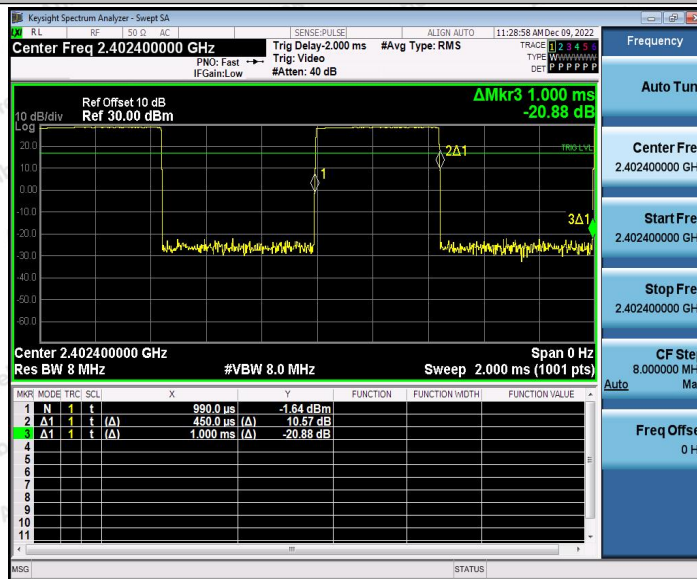


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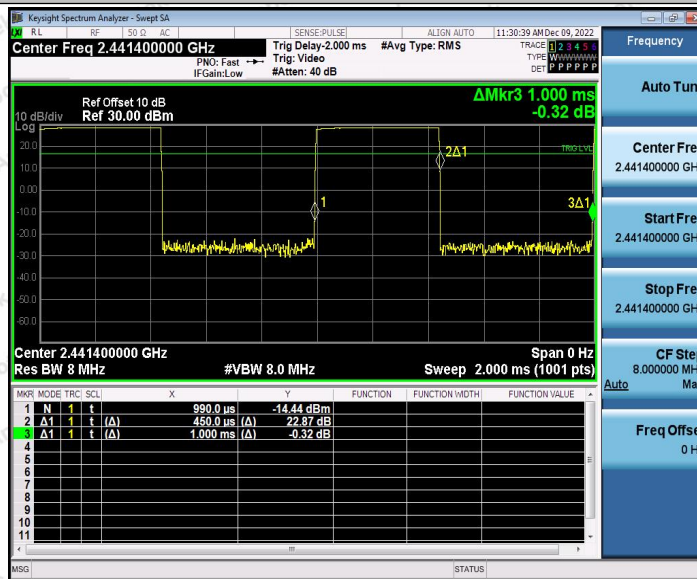


Test Graphs

2.4G_Ant1_2402.4



2.4G_Ant1_2441.4



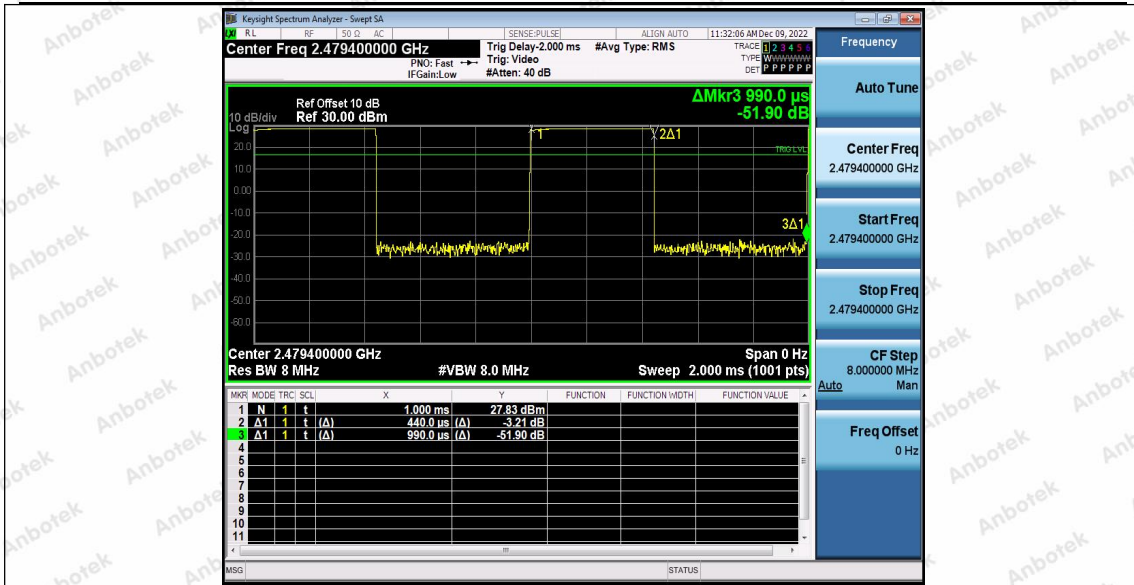
2.4G_Ant1_2479.4

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