

Appendix Test Data

Report No.:	18220WC20288102	Test Sample No.:	1-2-2
Start Test Date:	2022.12.19	Finish Test Date:	2022.12.24
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	23.3°C	Relative Humidity:	35 %
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	2402	1.029	2401.472	2402.501
		2441	1.035	2440.472	2441.507
		2480	1.032	2479.472	2480.504

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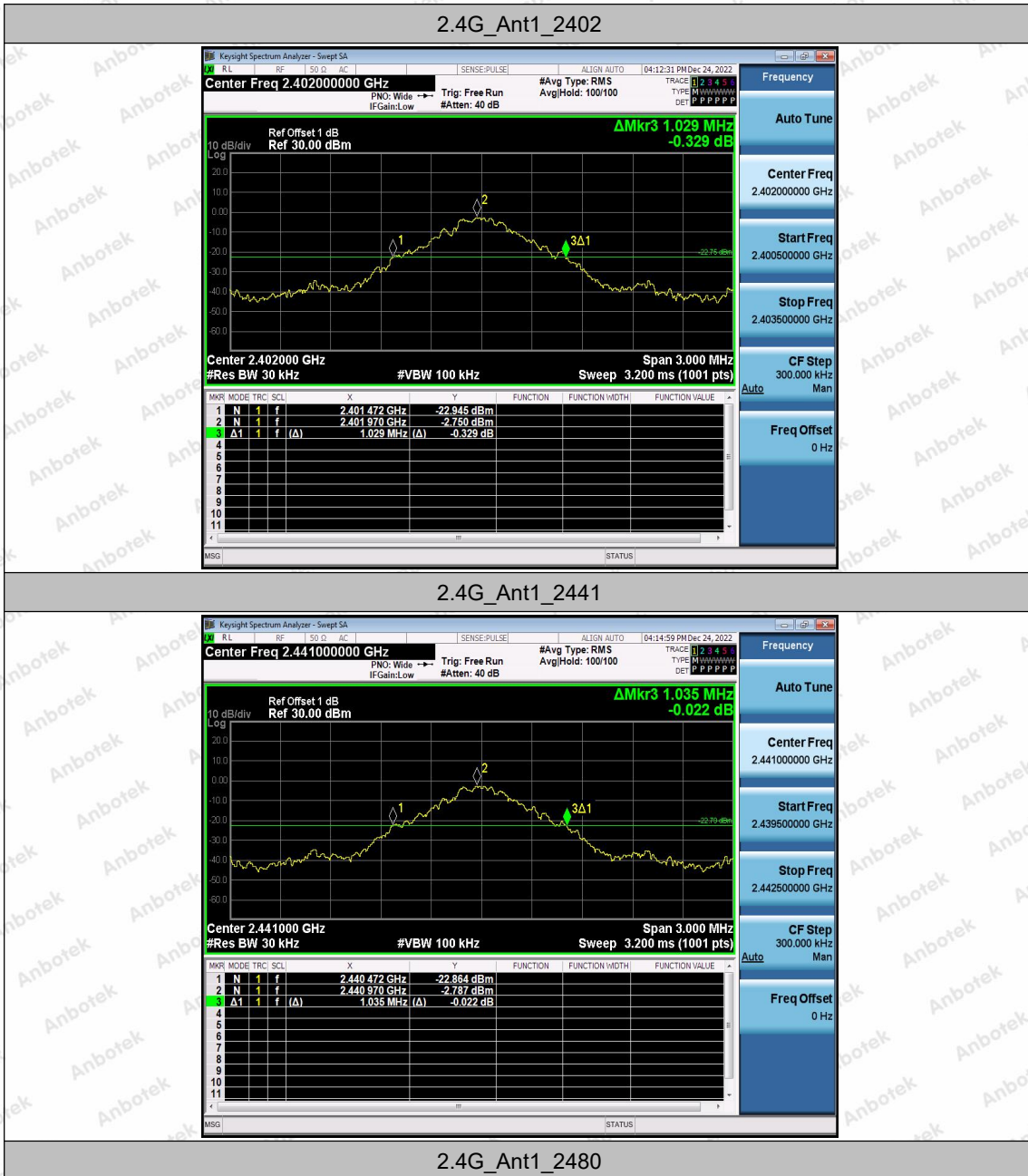
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Test Graphs



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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	2402	0.93135	2401.5350	2402.4663
		2441	0.94018	2440.5279	2441.4680
		2480	0.94719	2479.5265	2480.4736

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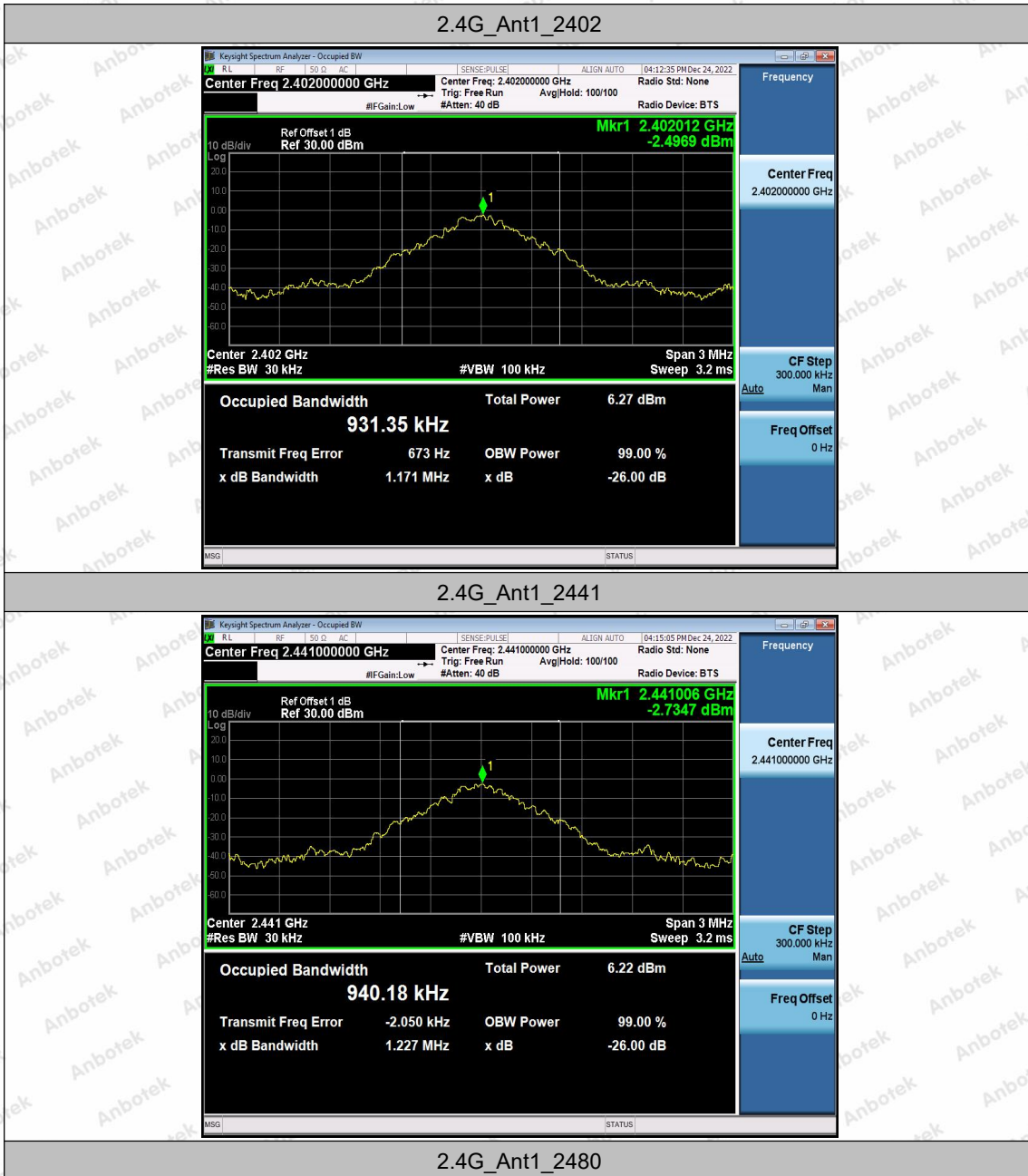
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2402	0.75	≤30	PASS
		2441	0.71	≤30	PASS
		2480	0.39	≤30	PASS

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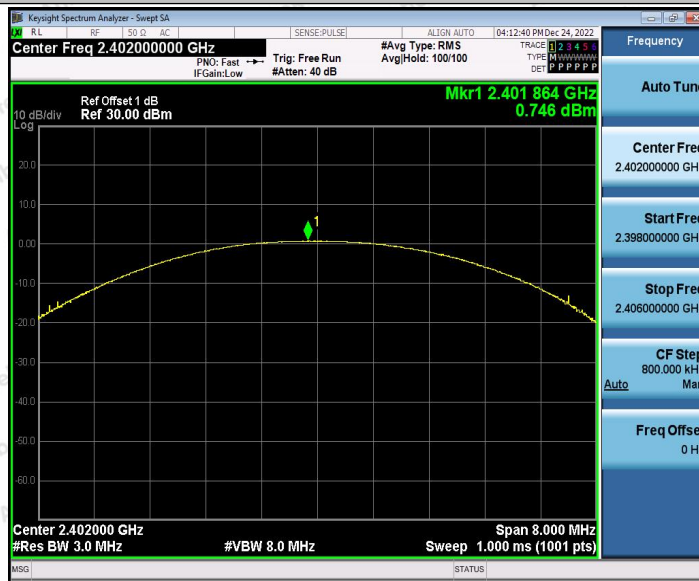


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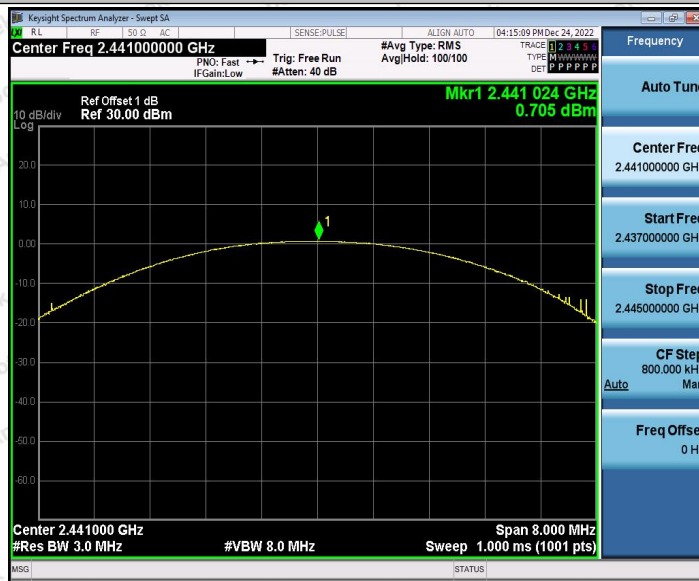


Test Graphs

2.4G_Ant1_2402



2.4G_Ant1_2441



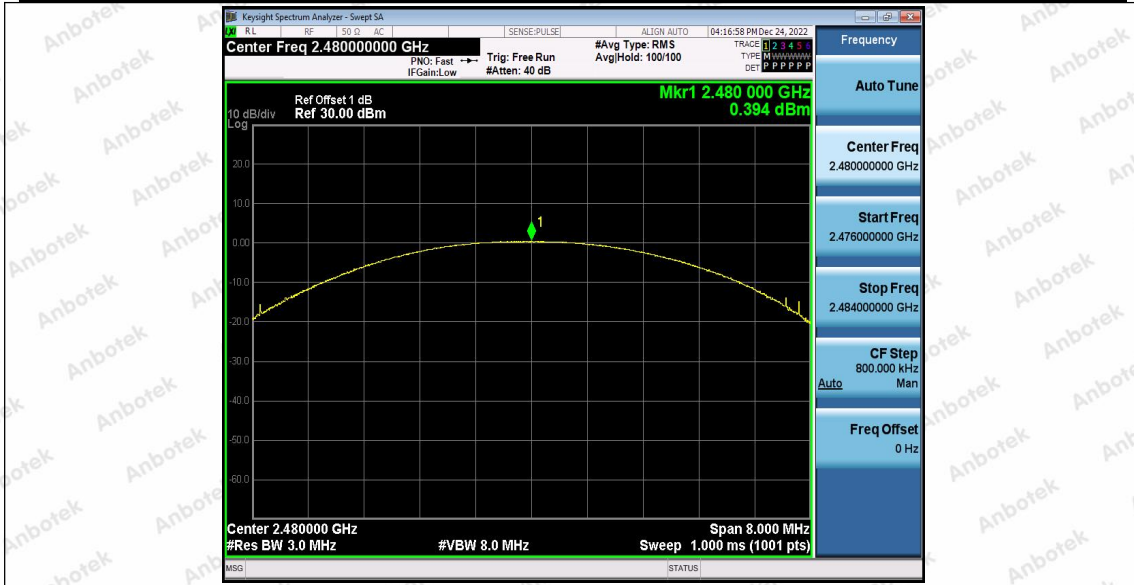
2.4G_Ant1_2480

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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	1.006	≥0.690	PASS

Test Graphs

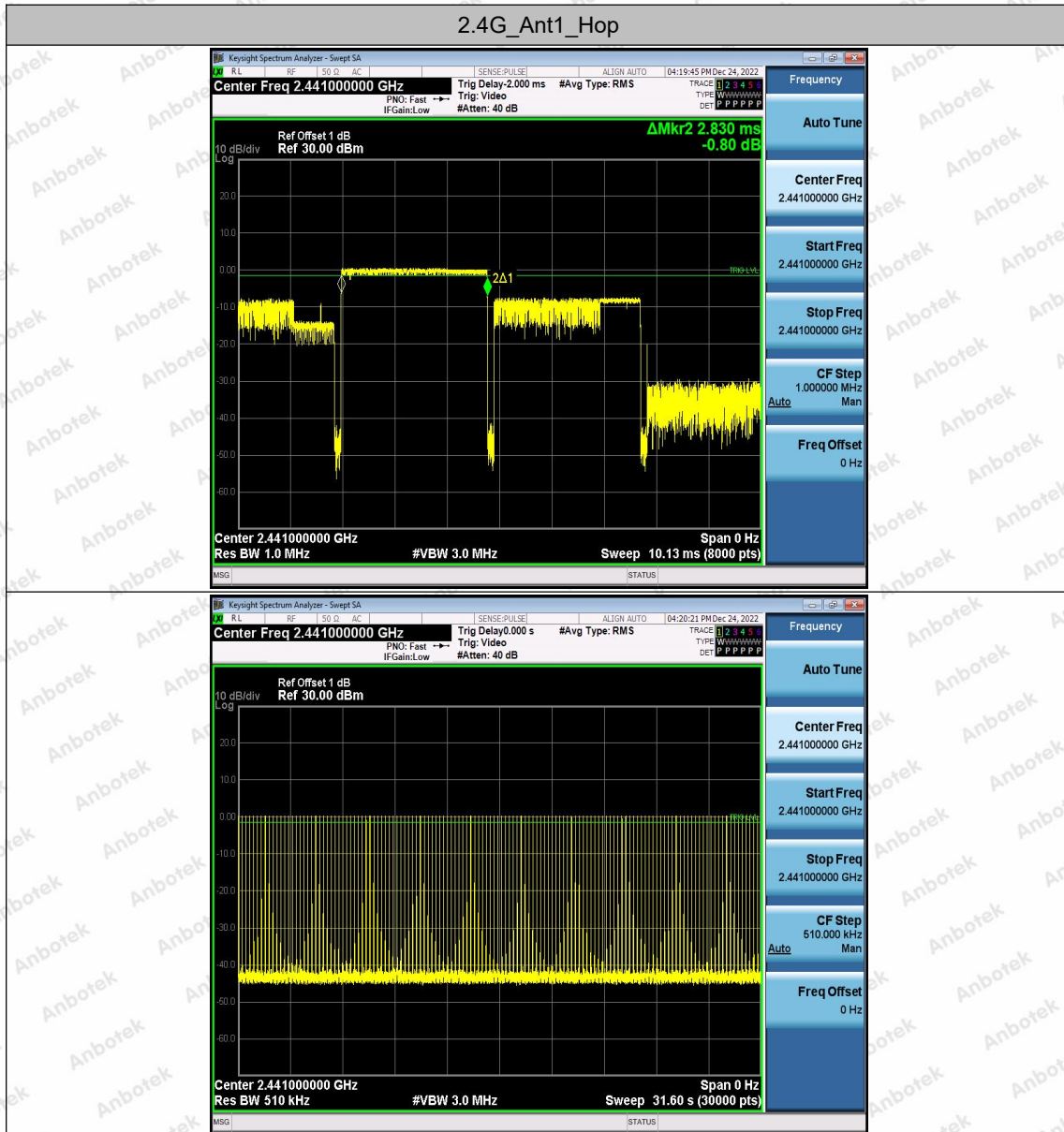


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	2.830	135	0.382	≤0.4	PASS

Test Graphs

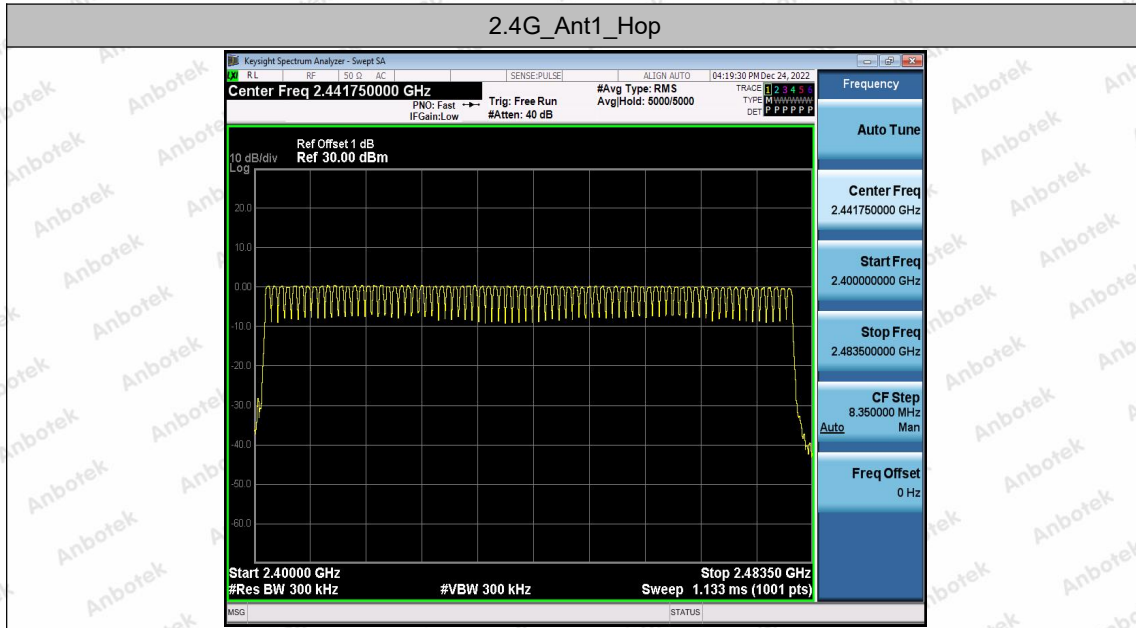


Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	79	≥15	PASS

Test Graphs



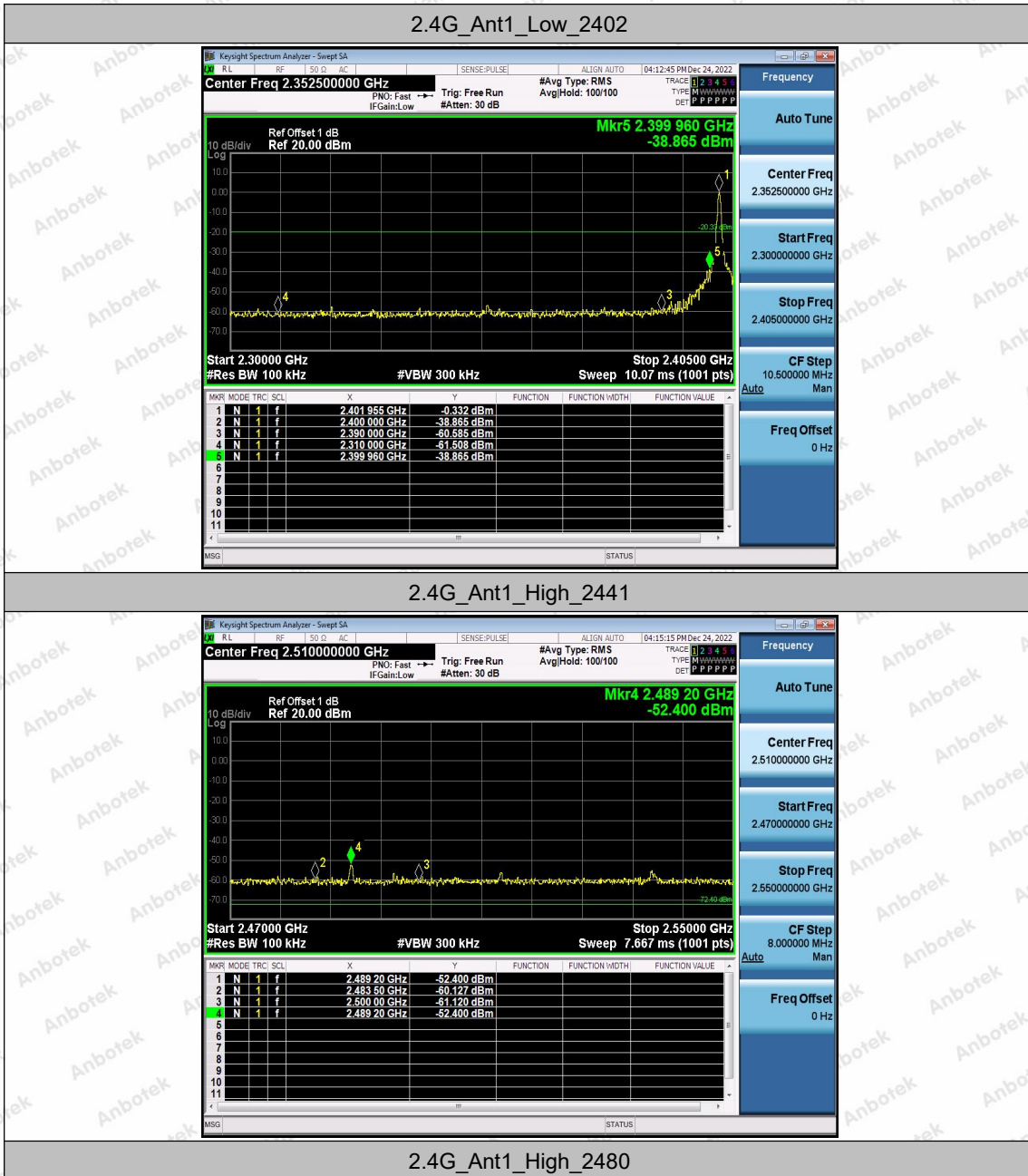
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2402	-0.33	-38.87	≤-20.33	PASS
		High	2441	-52.40	-52.4	≤-72.4	FAIL
			2480	-0.65	-44.1	≤-20.65	PASS
		Low	Hop_2402	-0.48	-55.42	≤-20.48	PASS
		High	Hop_2480	-0.44	-51.82	≤-20.44	PASS



Test Graphs

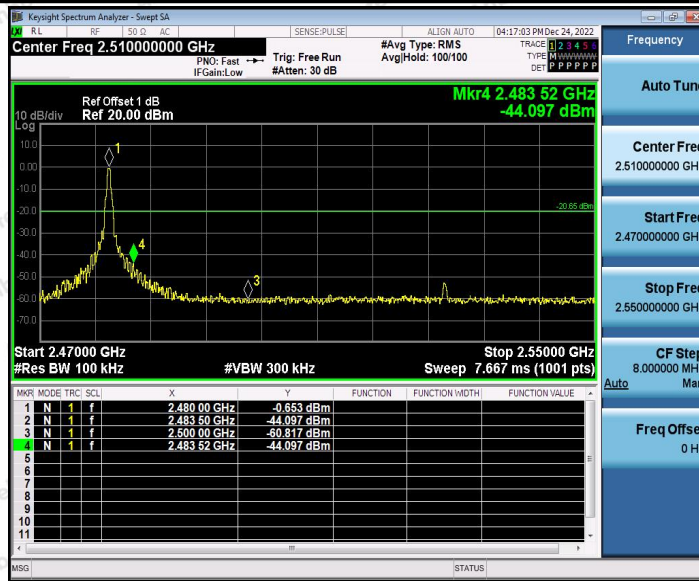


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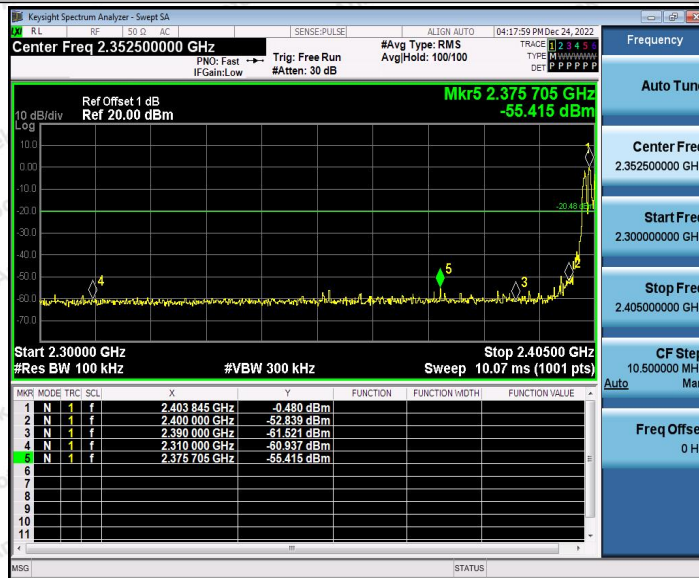
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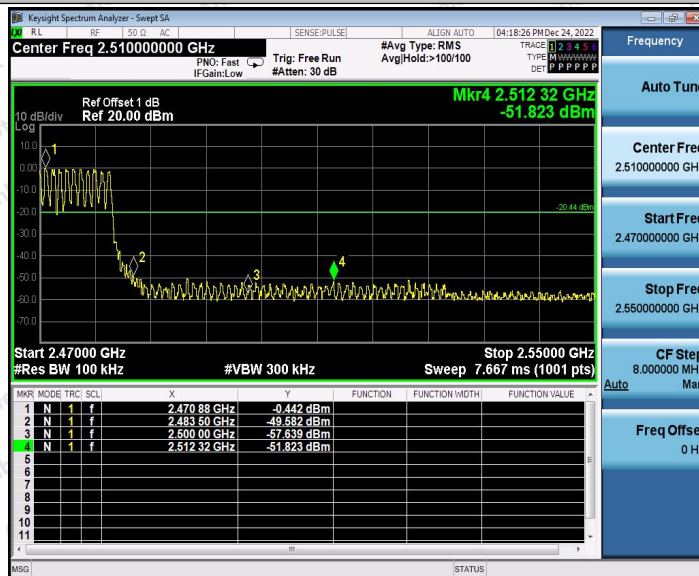




2.4G_Ant1_Low_Hop_2402



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	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-46.07	≤-20.9	PASS
			1000~26500	-0.90	-36.5	≤-20.9	PASS
		2441	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-45.67	≤-20.89	PASS
			1000~26500	-0.81	-36.58	≤-20.81	PASS
		2480	Reference	-1.24	-1.24	---	PASS
			30~1000	-1.24	-45.87	≤-21.24	PASS
			1000~26500	-1.24	-37.46	≤-21.24	PASS

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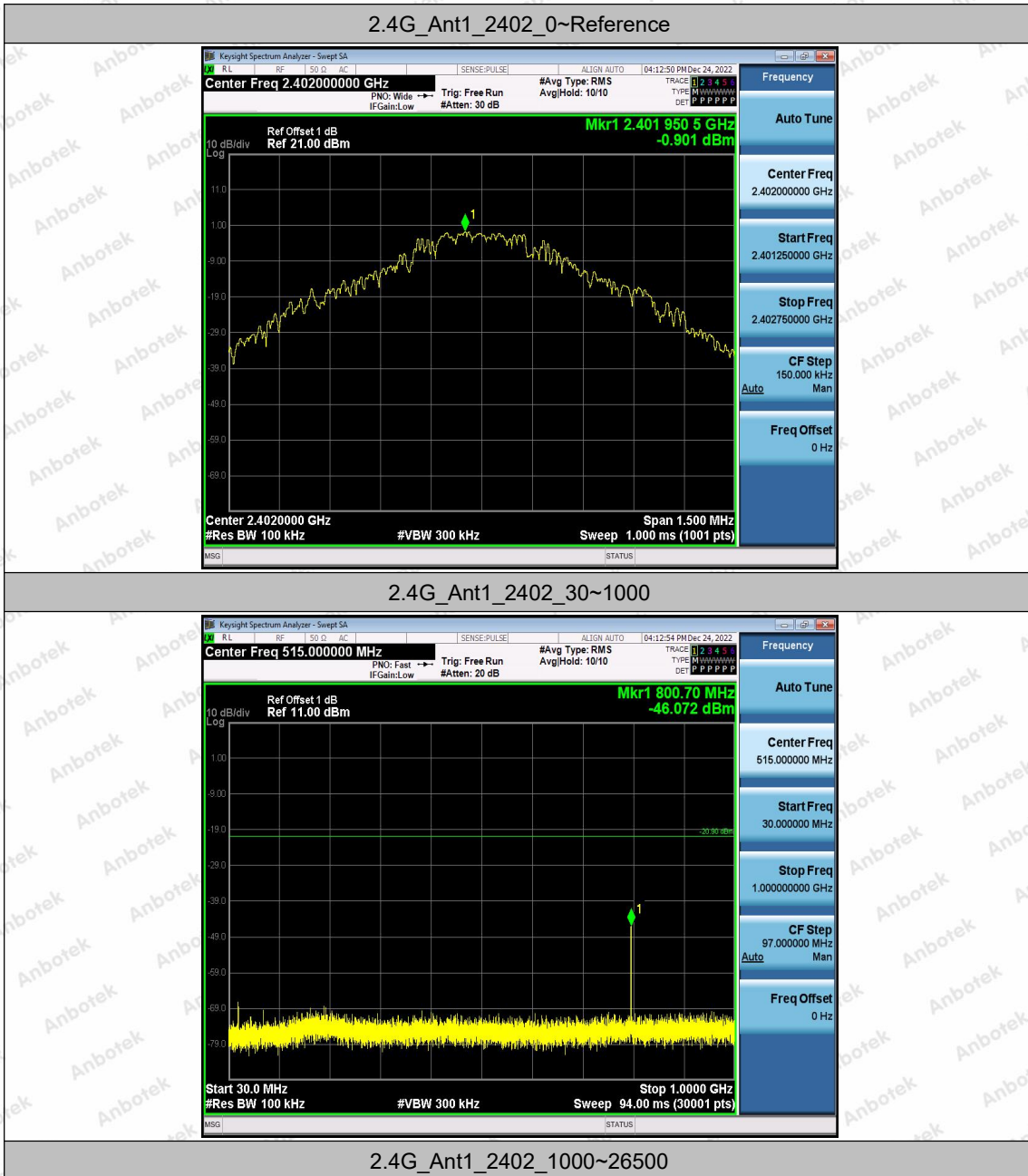
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Test Graphs

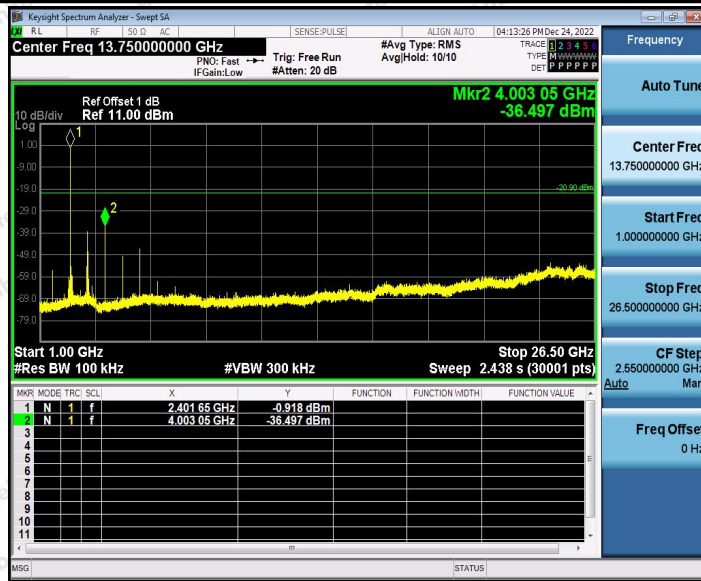


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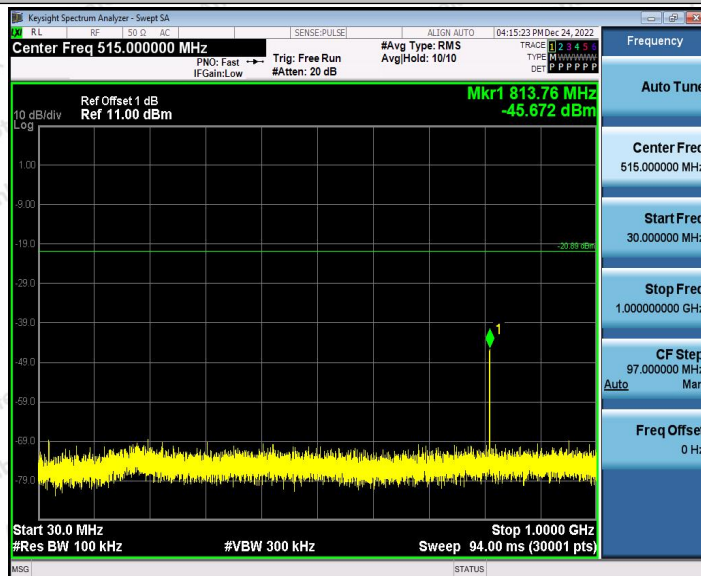




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000

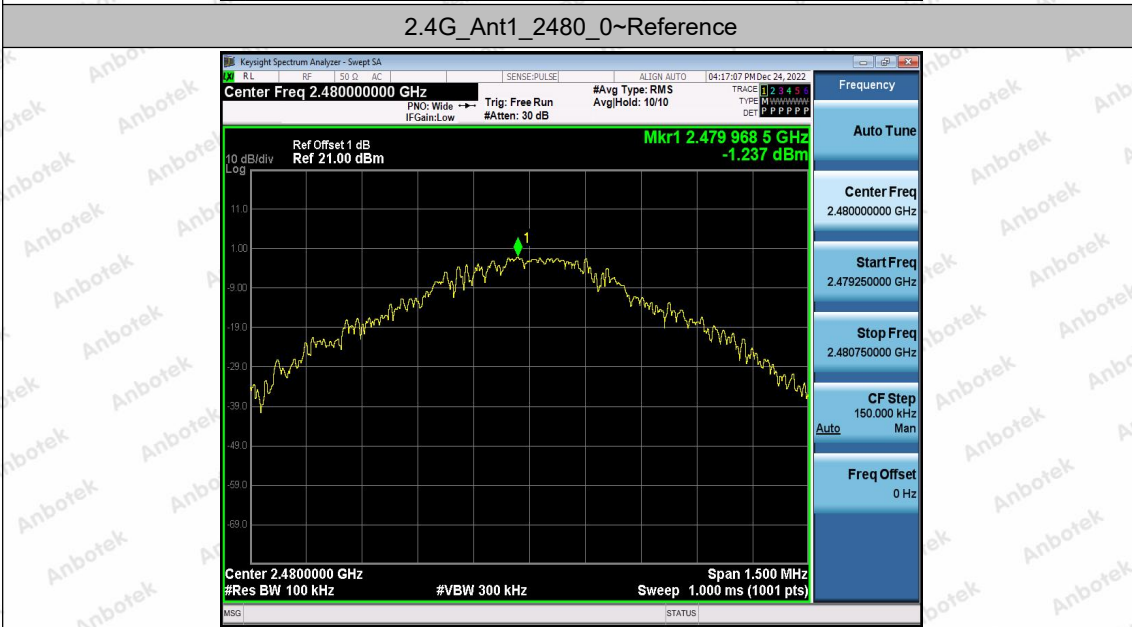
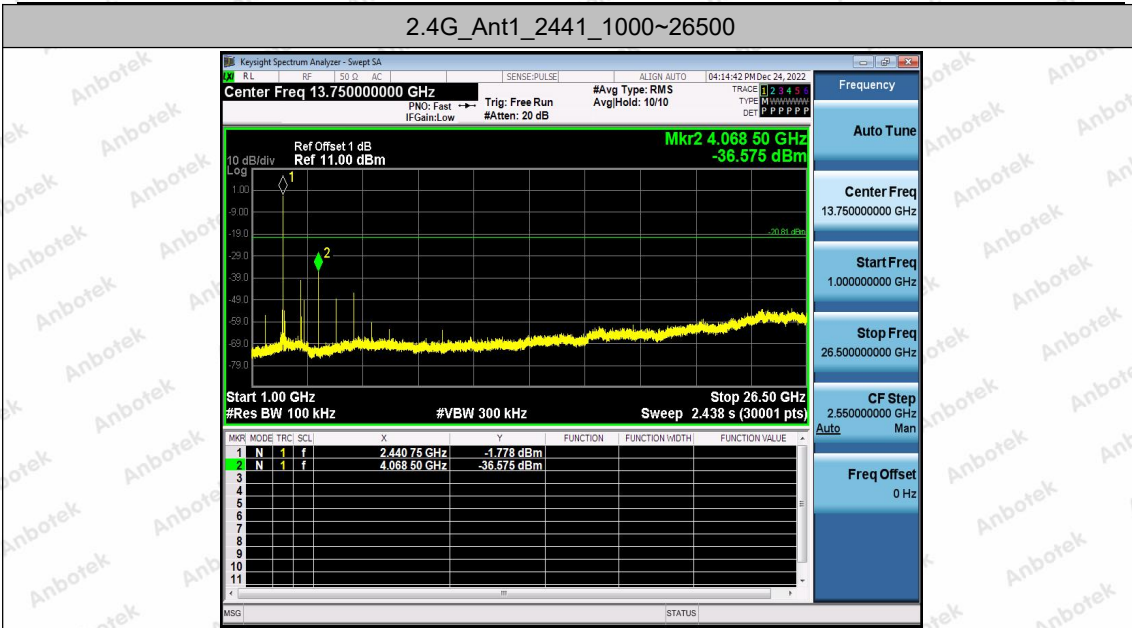


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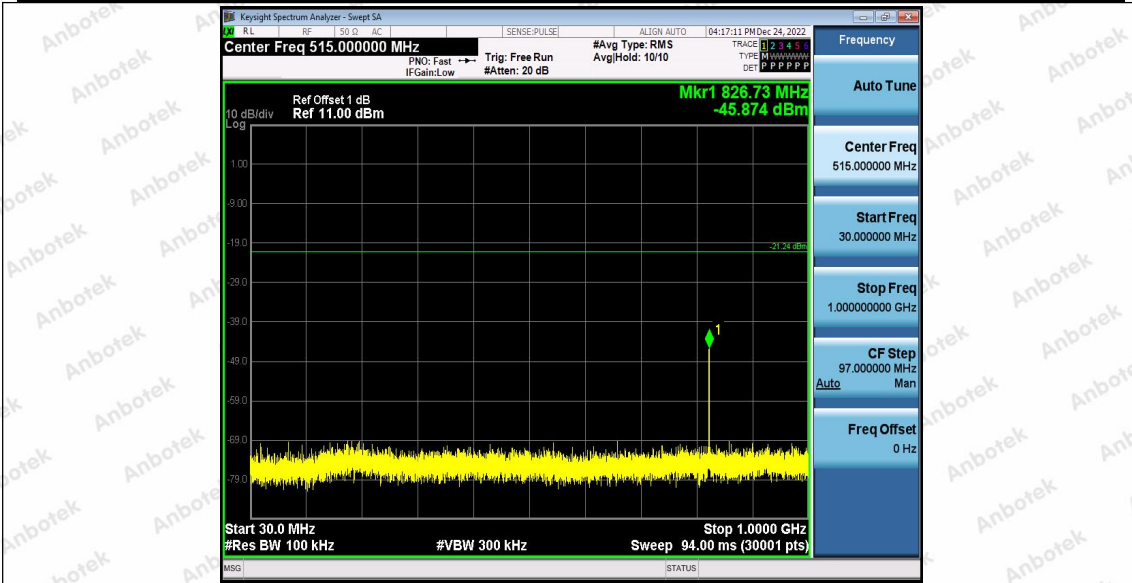
2.4G_Ant1_2480_30~1000

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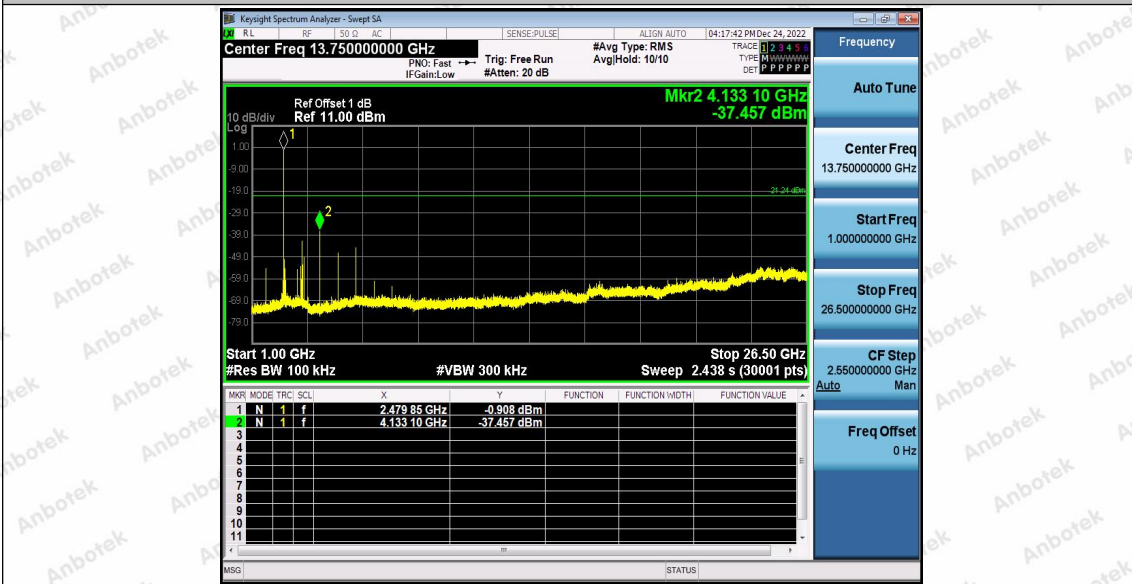
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2.4G_Ant1_2480_1000~26500



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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	2402	1.91	2.12	90.09	0.45
		2441	1.91	2.11	90.52	0.43
		2480	1.91	2.12	90.09	0.45

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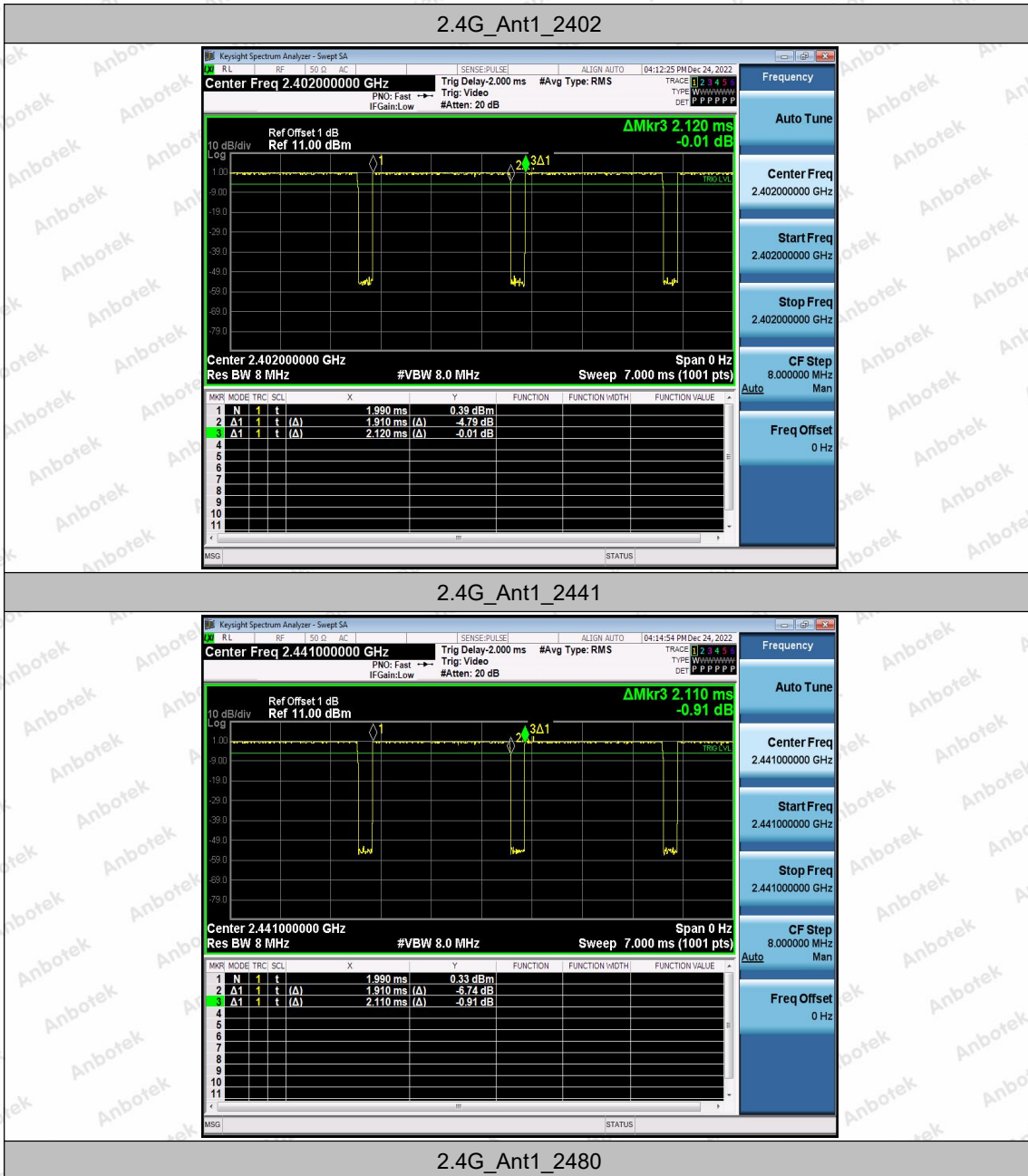
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Test Graphs

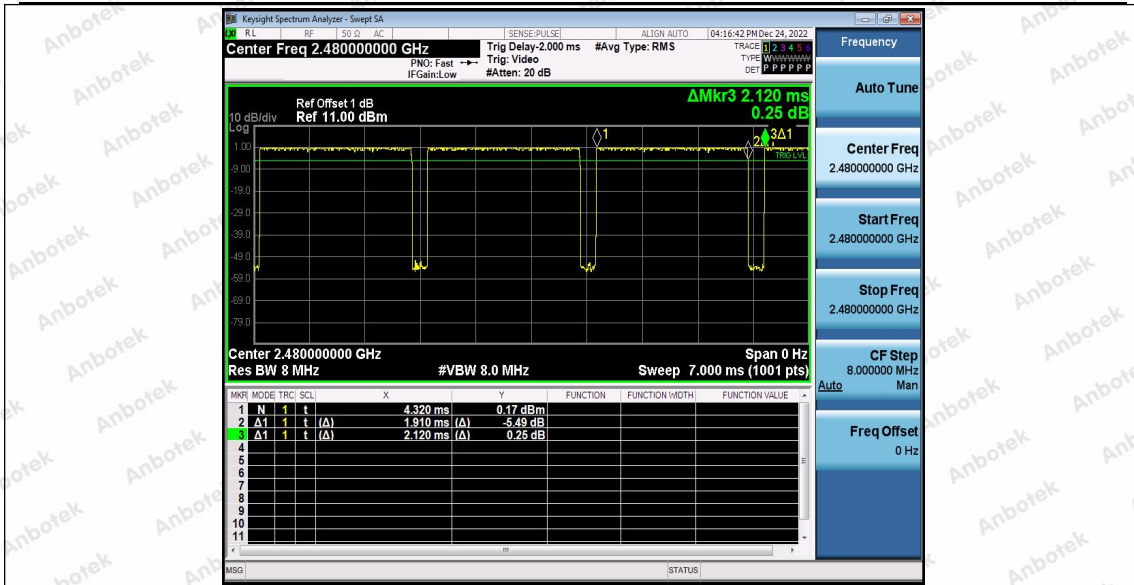


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