

Appendix Test Data

Report No.:	18220WC20251801	Test Sample No.:	1-2-2
Start Test Date:	2022.11.10	Finish Test Date:	2022.11.14
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

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2409.5	1.105	2409.110	2410.215
		2441	1.000	2440.630	2441.630
		2476	1.000	2475.620	2476.620



Test Graphs

2.4G_Ant1_2409.5



2.4G_Ant1_2441



2.4G_Ant1_2476

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
2.4G	Ant1	2409.5	1.2313	2409.1017	2410.3260
		2441	1.1121	2440.6279	2441.7400
		2476	1.0871	2475.6293	2476.7164

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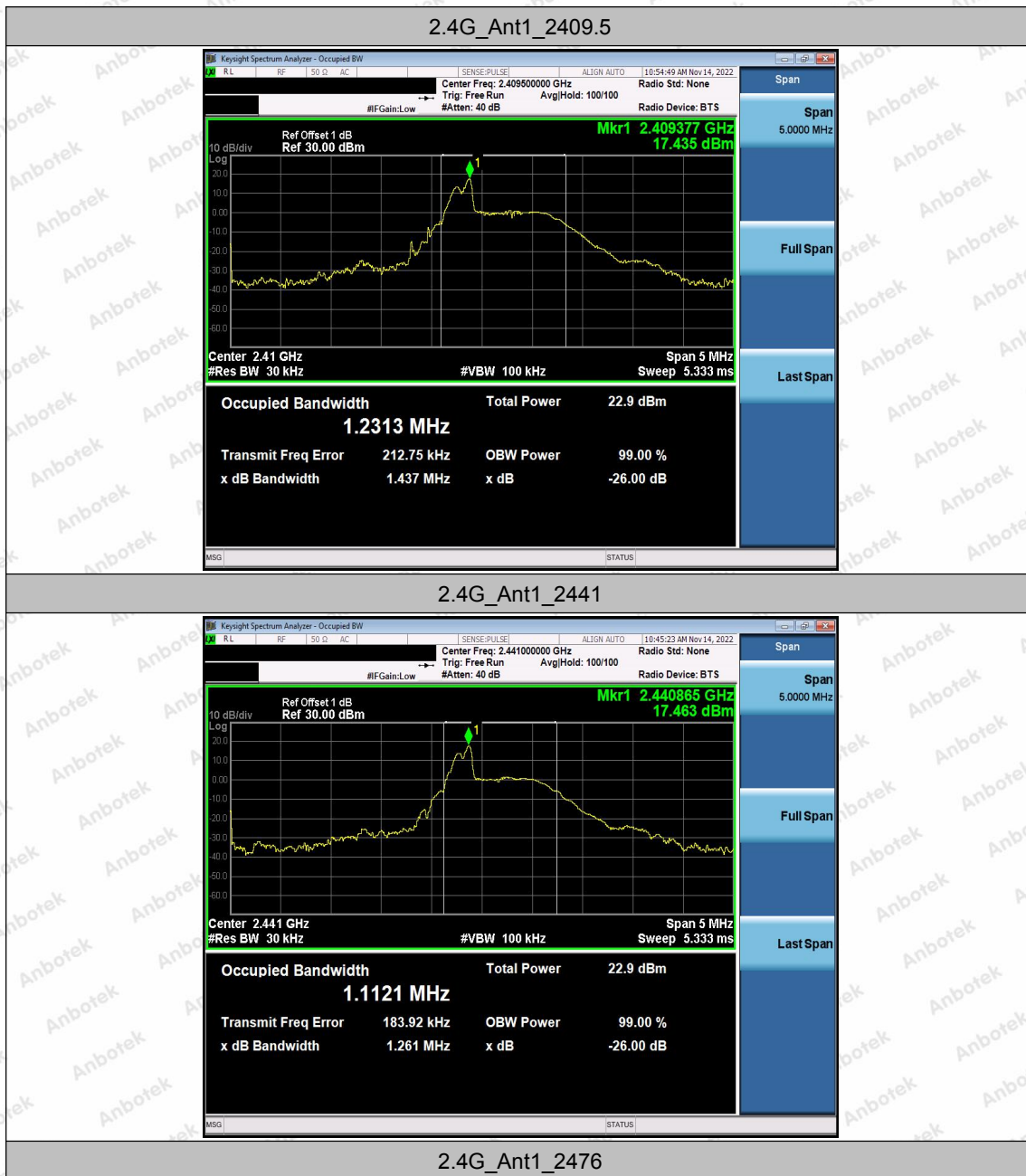
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Test Graphs



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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	2409.5	18.33	≤20.97	PASS
		2441	18.27	≤20.97	PASS
		2476	18.17	≤20.97	PASS



Test Graphs

2.4G_Ant1_2409.5



2.4G_Ant1_2441



2.4G_Ant1_2476

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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	Hop	3.56	≥0.821	PASS

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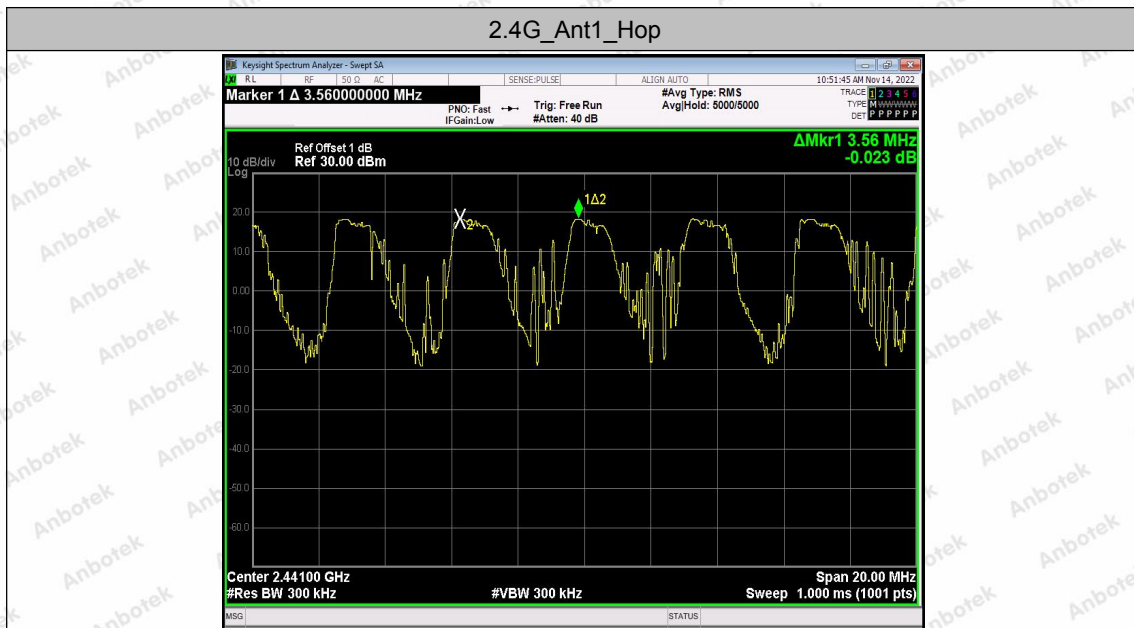
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Test Graphs



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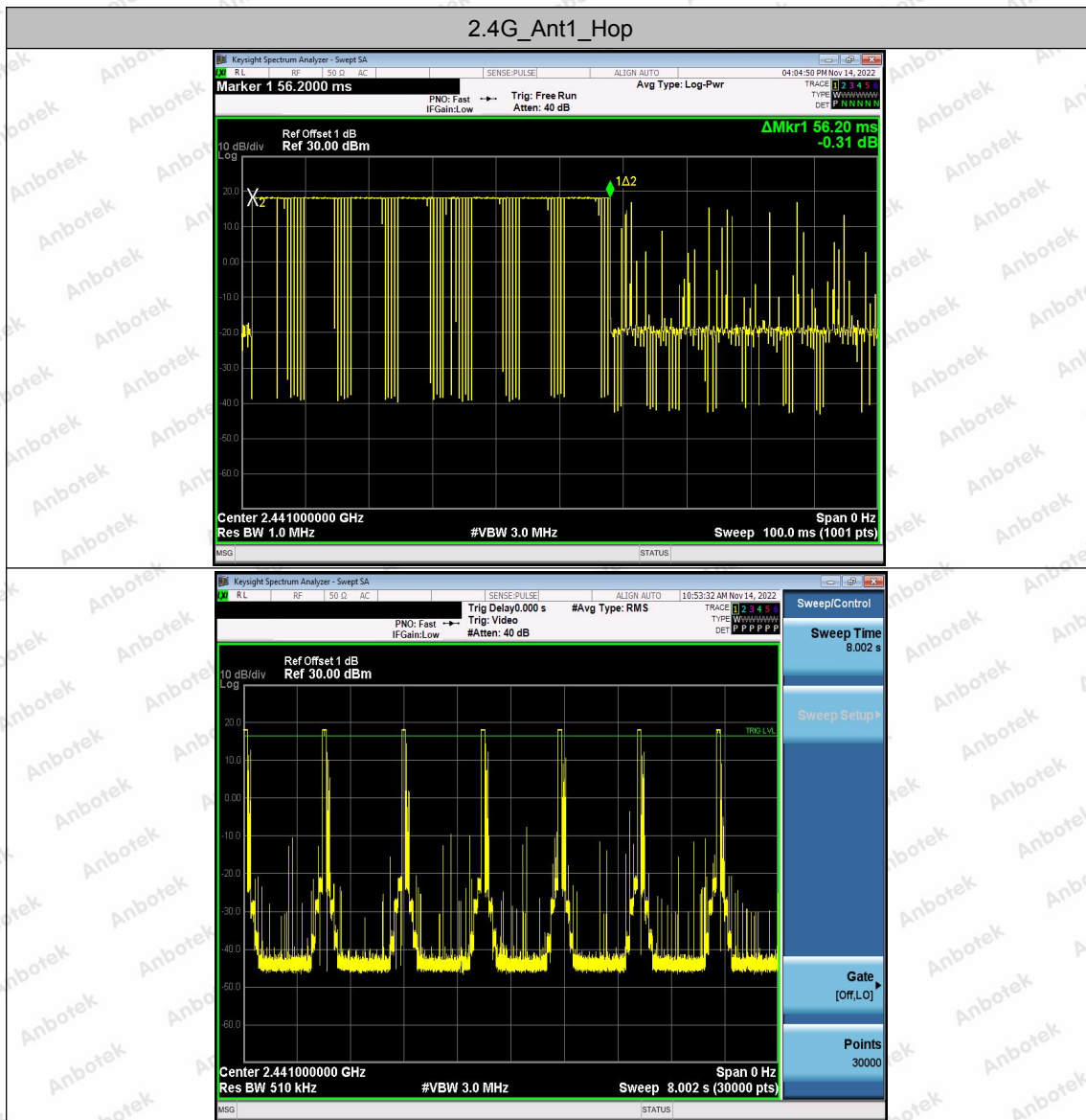
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G	Ant1	Hop	56.20	7	0.39	≤0.4	PASS



Test Graphs



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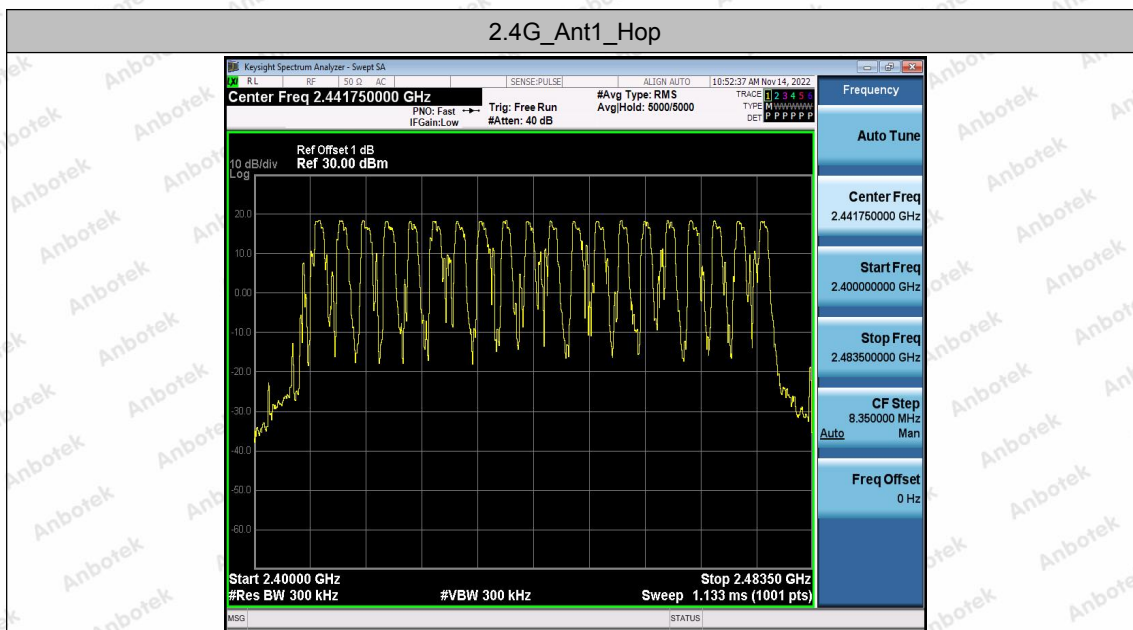
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G	Ant1	Hop	20	≥15	PASS



Test Graphs



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Appendix G: Band edge measurements

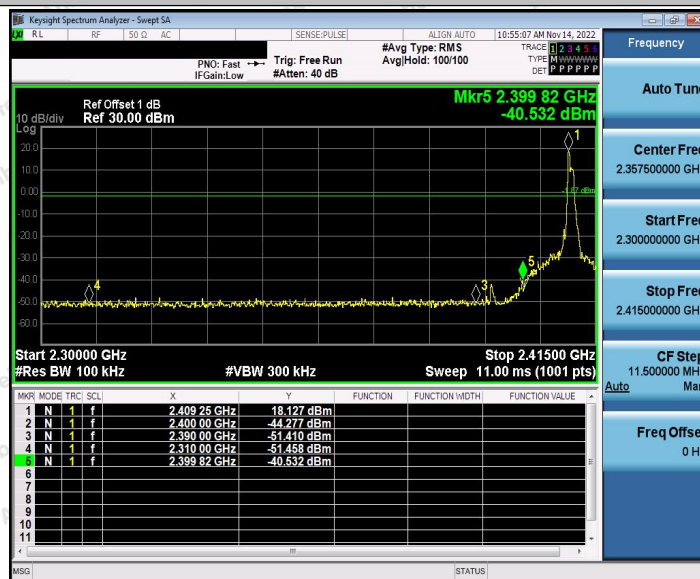
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2409.5	18.13	-40.53	≤ -1.87	PASS
		High	2476	18.21	-37.49	≤ -1.79	PASS
		Low	Hop_2402	18.02	-46.68	≤ -1.98	PASS
		High	Hop_2480	18.24	-46.67	≤ -1.76	PASS

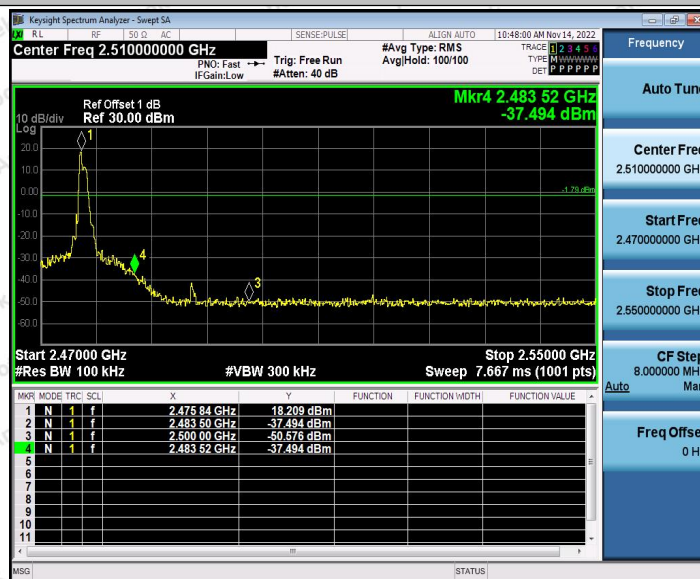


Test Graphs

2.4G_Ant1_Low_2409.5



2.4G_Ant1_High_2476



2.4G_Ant1_Low_Hop_2402

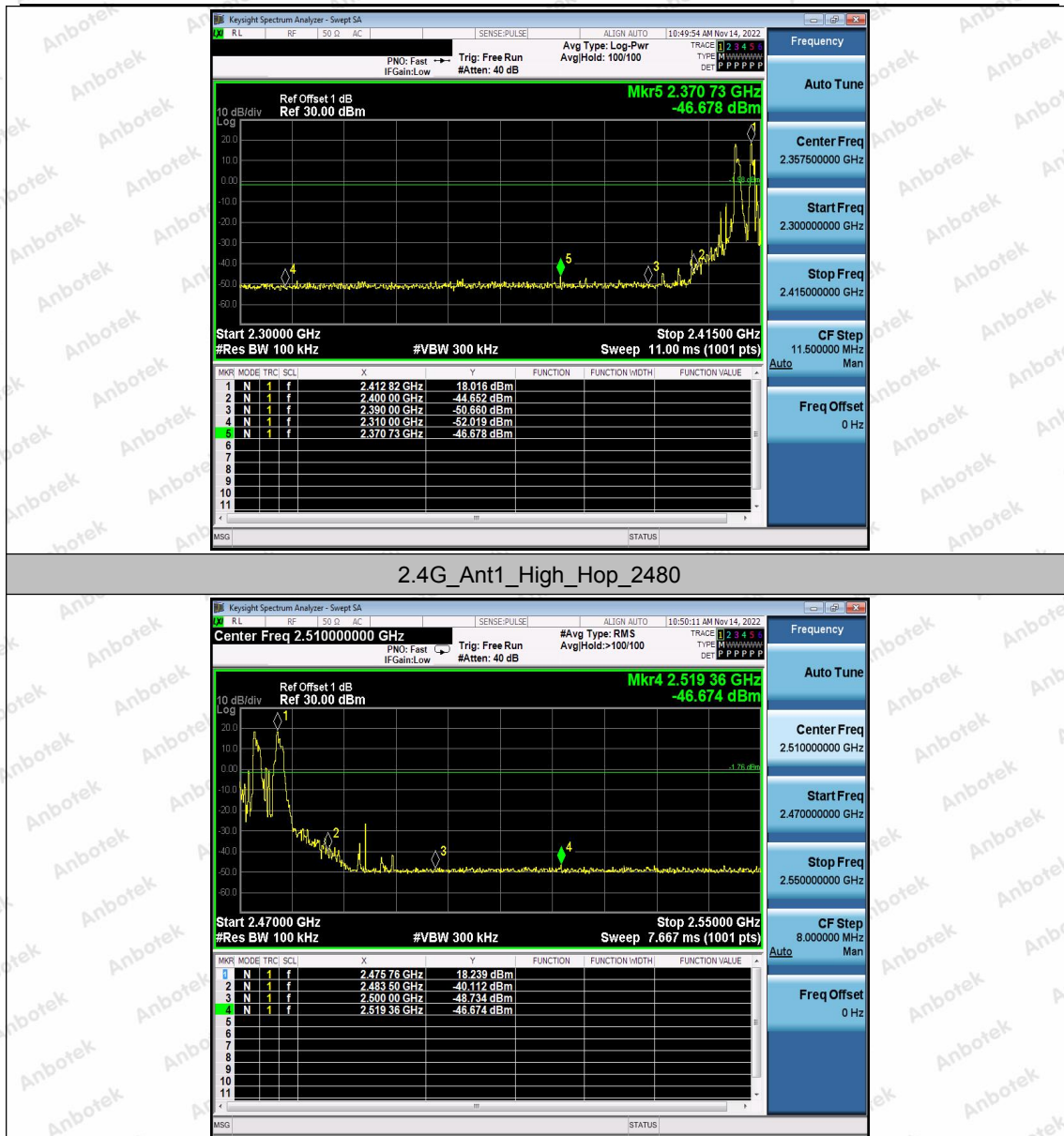
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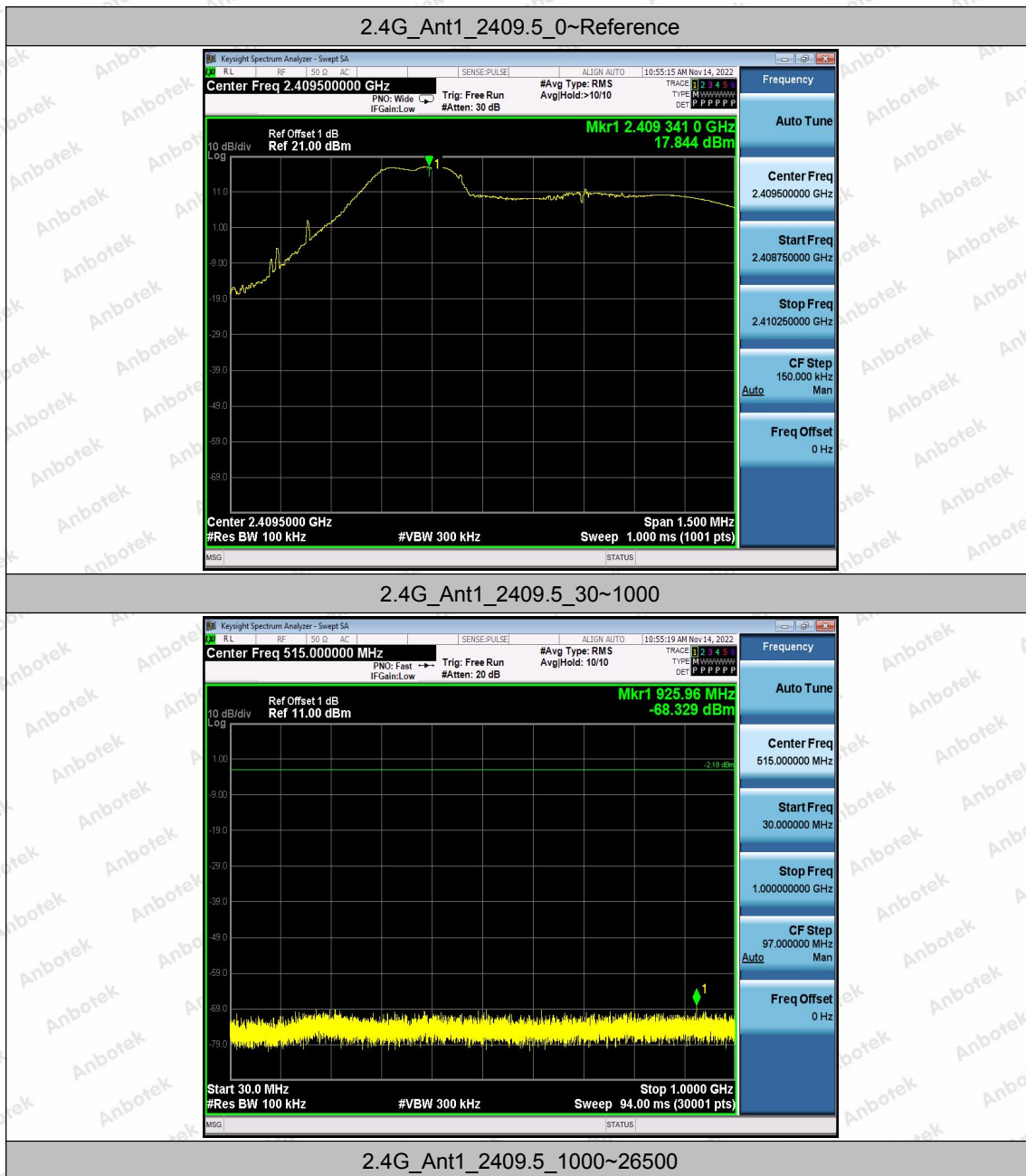
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2409.5	Reference	17.82	17.82	---	PASS
			30~1000	17.82	-68.33	≤-2.18	PASS
			1000~26500	17.82	-38.88	≤-2.18	PASS
		2441	Reference	17.96	17.96	---	PASS
			30~1000	17.96	-68.28	≤-2.04	PASS
			1000~26500	17.96	-39.58	≤-2.04	PASS
		2476	Reference	17.83	17.83	---	PASS
			30~1000	17.83	-68.36	≤-2.17	PASS
			1000~26500	17.83	-39.32	≤-2.17	PASS



Test Graphs



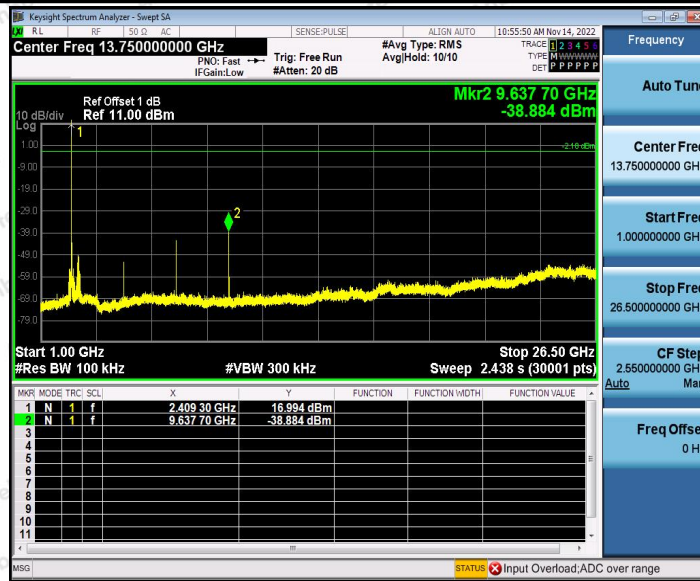
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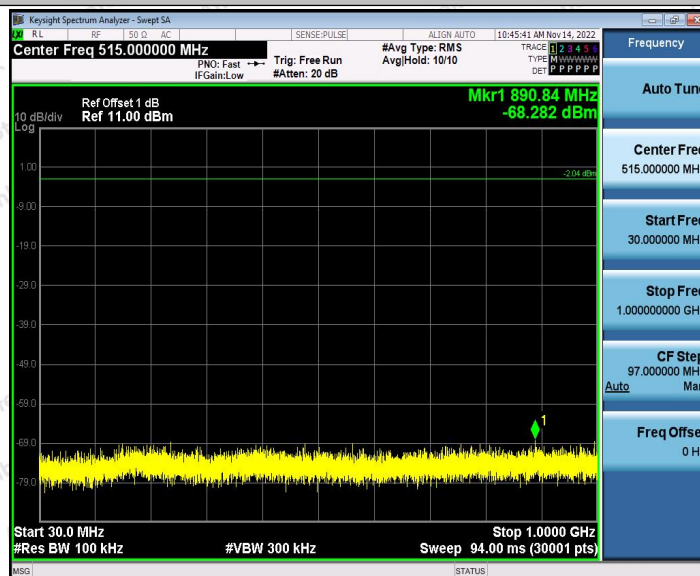




2.4G_Ant1_2441_0~Reference



2.4G_Ant1_2441_30~1000



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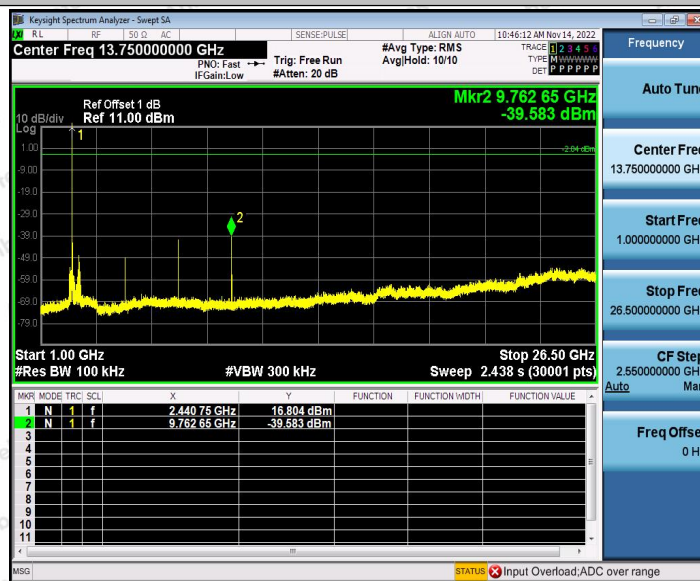
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2.4G_Ant1_2441_1000~26500



2.4G_Ant1_2476_0~Reference



2.4G_Ant1_2476_30~1000

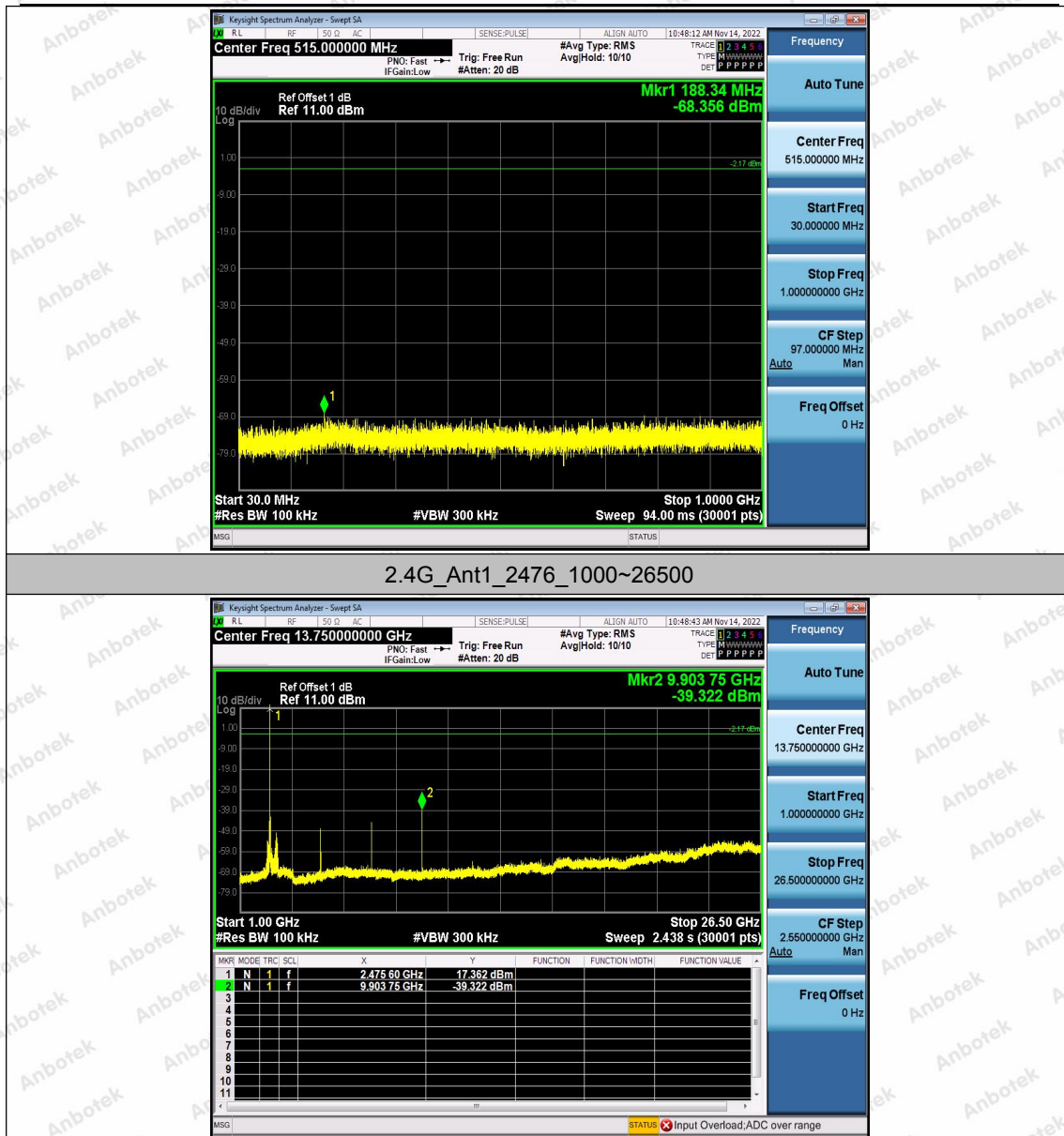
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
2.4G	Ant1	2409.5	0.06	0.14	42.86	3.68
		2441	0.06	0.14	42.86	3.68
		2476	0.06	0.14	42.86	3.68

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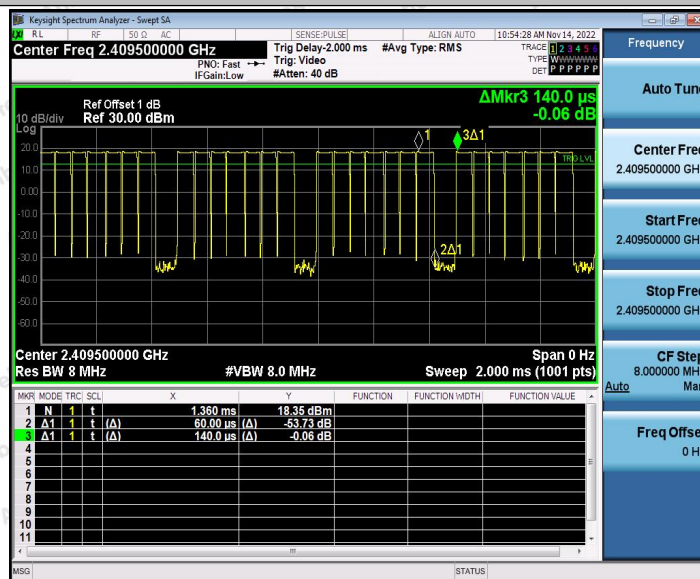


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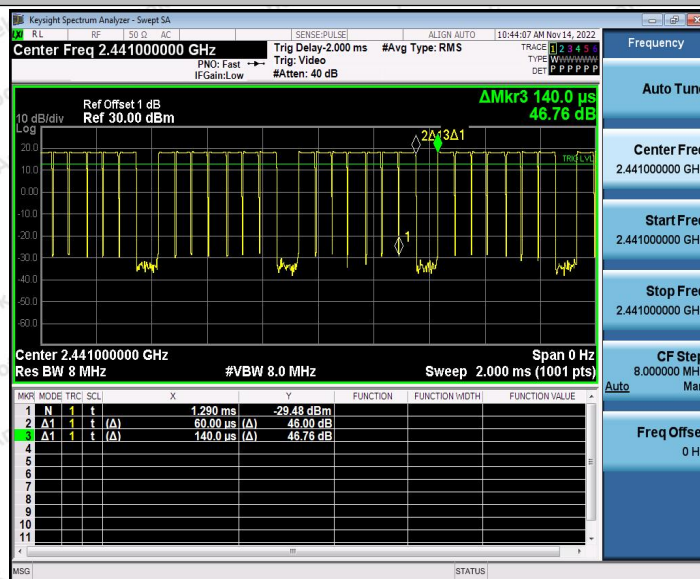


Test Graphs

2.4G_Ant1_2409.5



2.4G_Ant1_2441



2.4G_Ant1_2476

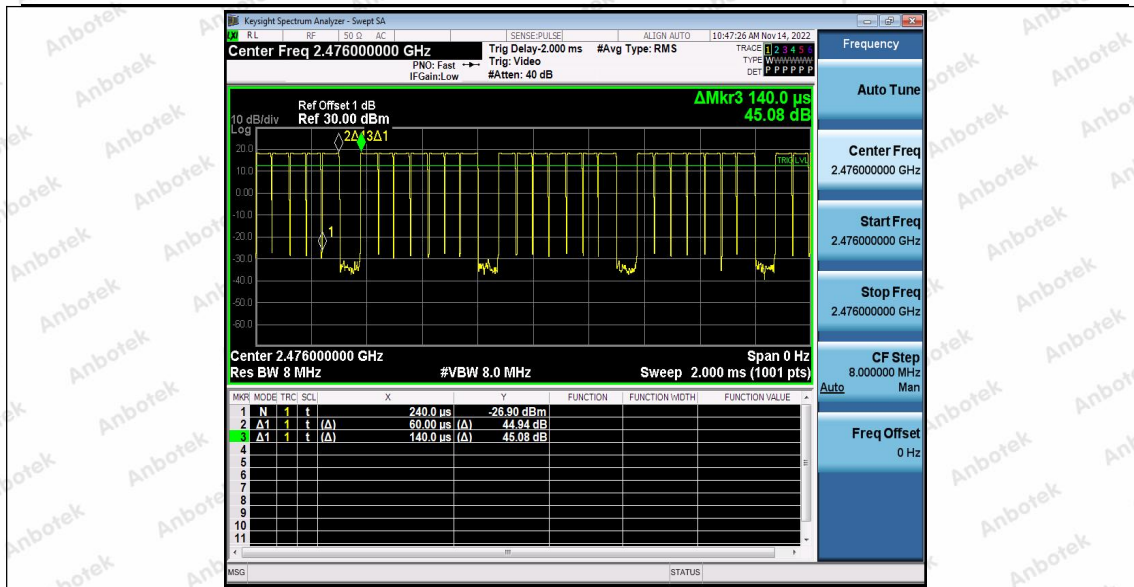
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