

Appendix Test Data

Report No.:	1812C50511112502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-10-15	Finish Test Date:	2025-10-16
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.6°C	Relative Humidity:	45%
Pressure:	101kPa		



Appendix A: 20dB Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403	2.340	2401.880	2404.220	---	---
2.4G	Ant1	2441	2.315	2439.895	2442.210	---	---
2.4G	Ant1	2480	2.310	2478.895	2481.205	---	---

Test Graphs



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Appendix B: 99% Occupied Bandwidth**Test Result**

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2403	2.5306	2401.6213	2404.1519	---	---
2.4G	Ant1	2441	2.4113	2439.7276	2442.1389	---	---
2.4G	Ant1	2480	2.3888	2478.7558	2481.1446	---	---

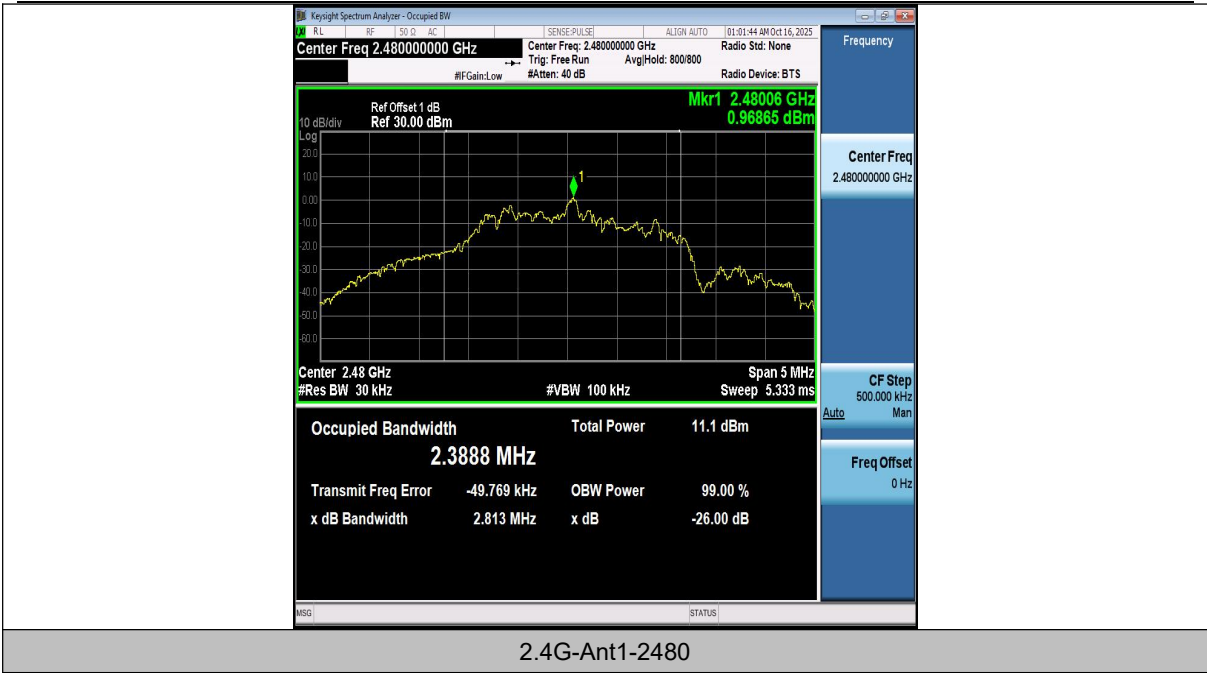
Test Graphs



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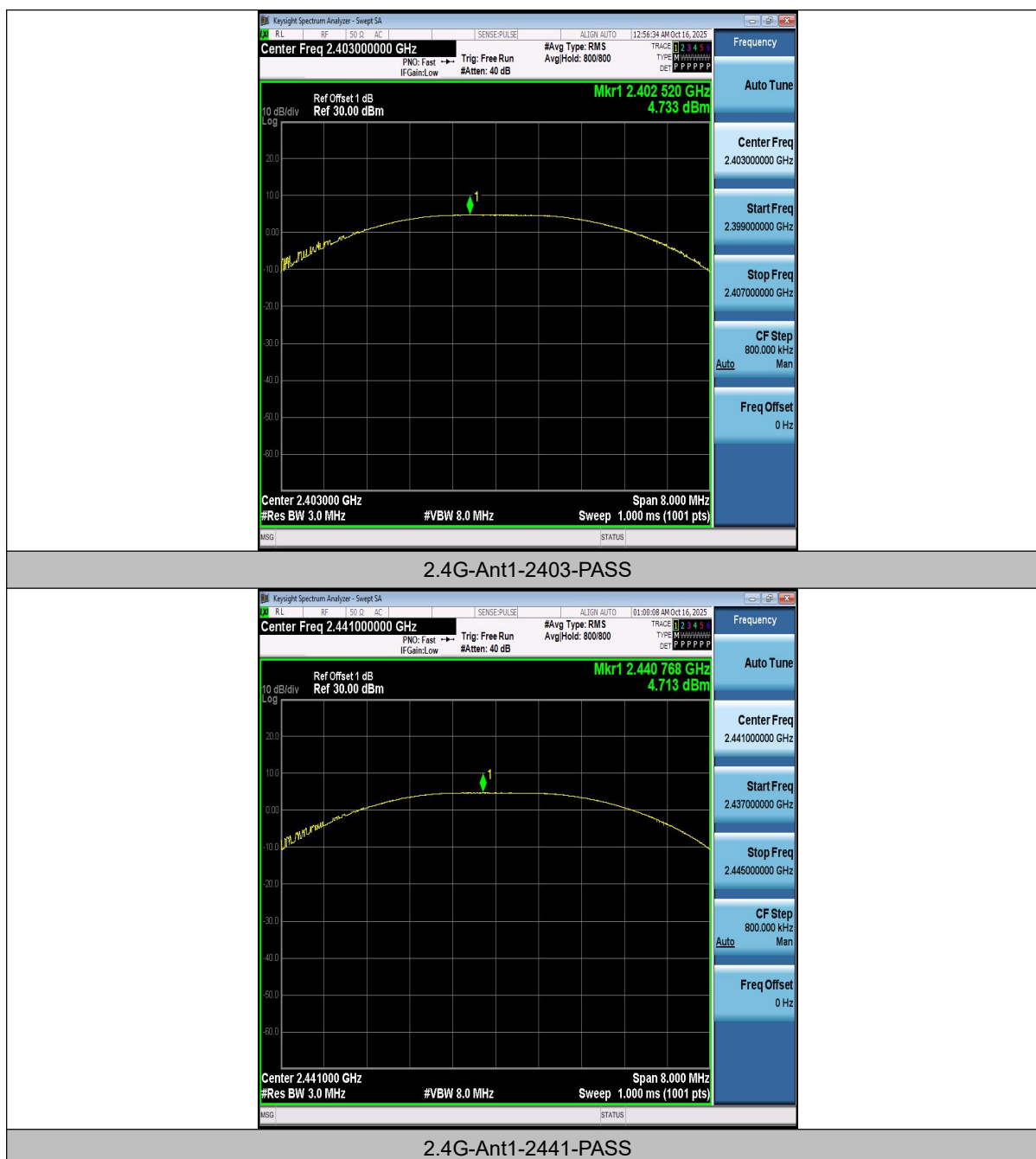
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Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2403	4.73	≤20.97	PASS
2.4G	Ant1	2441	4.71	≤20.97	PASS
2.4G	Ant1	2480	4.81	≤20.97	PASS

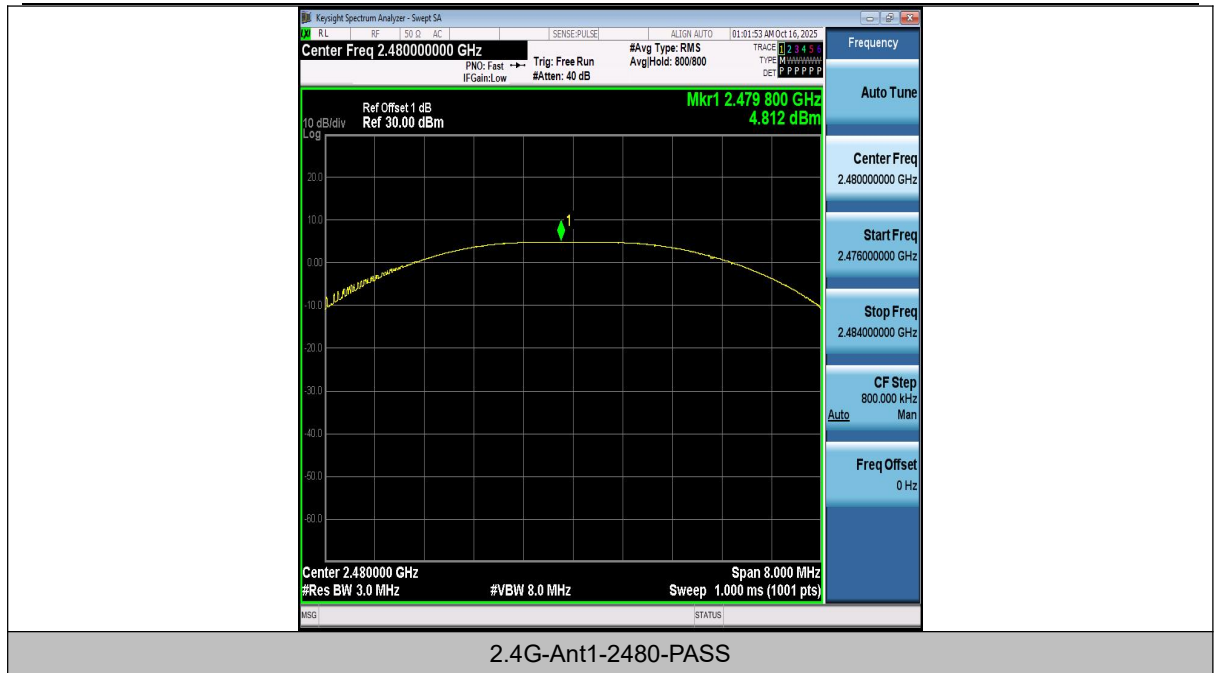
Test Graphs



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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	1.856	≥1.56	PASS

Note: Only list the worst case data.

Test Graphs



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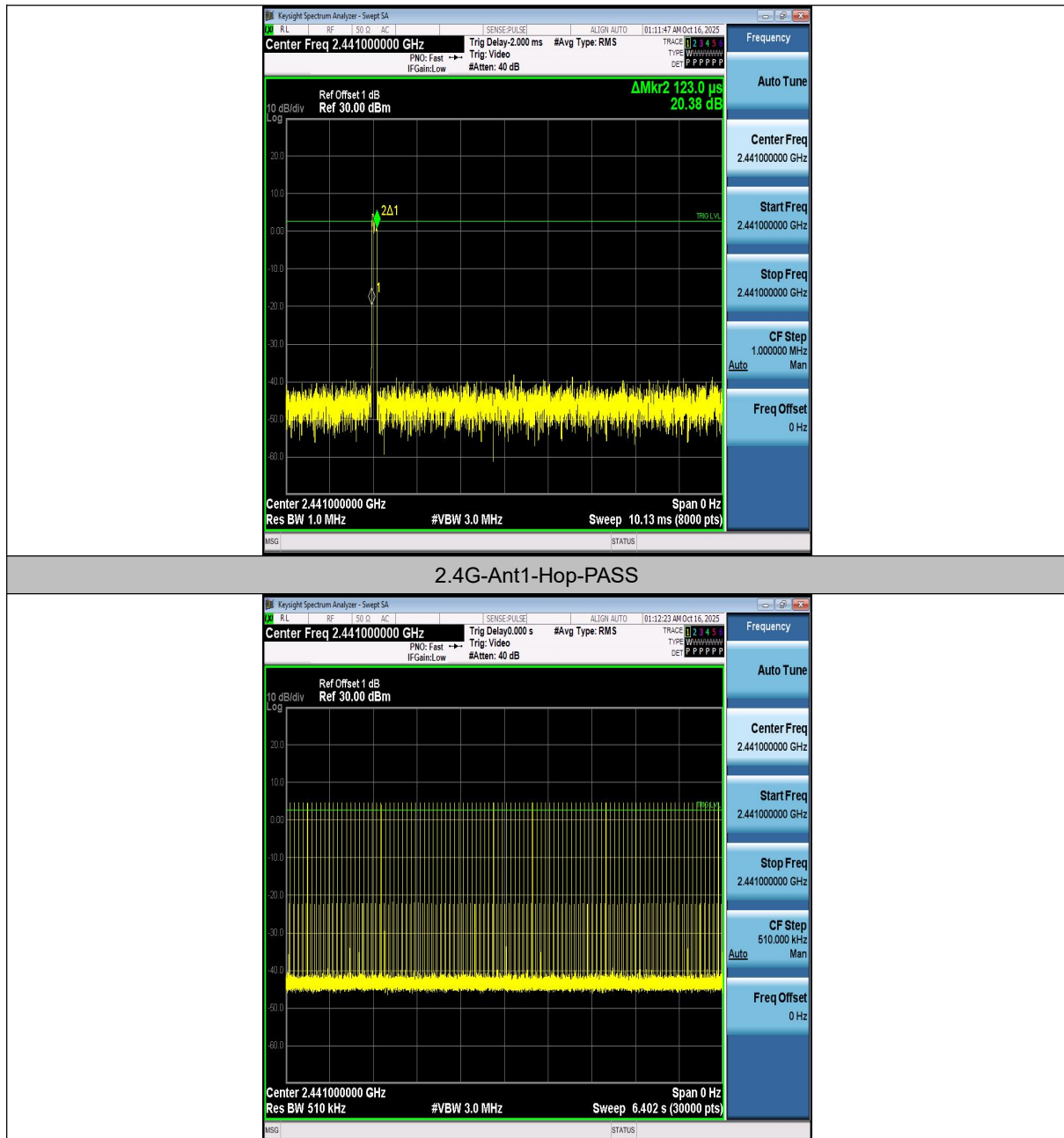
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Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
2.4G	Ant1	Hop	0.123	101	0.012	≤0.4	PASS

Test Graphs



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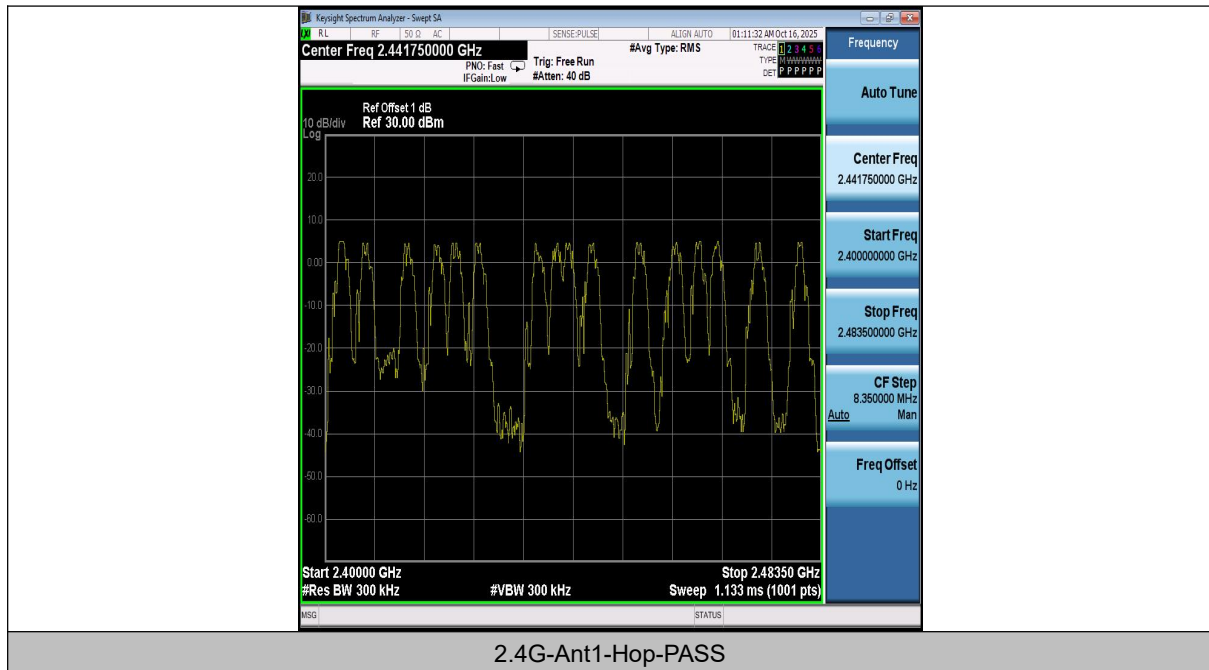
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Appendix F: Number of Hopping Channel

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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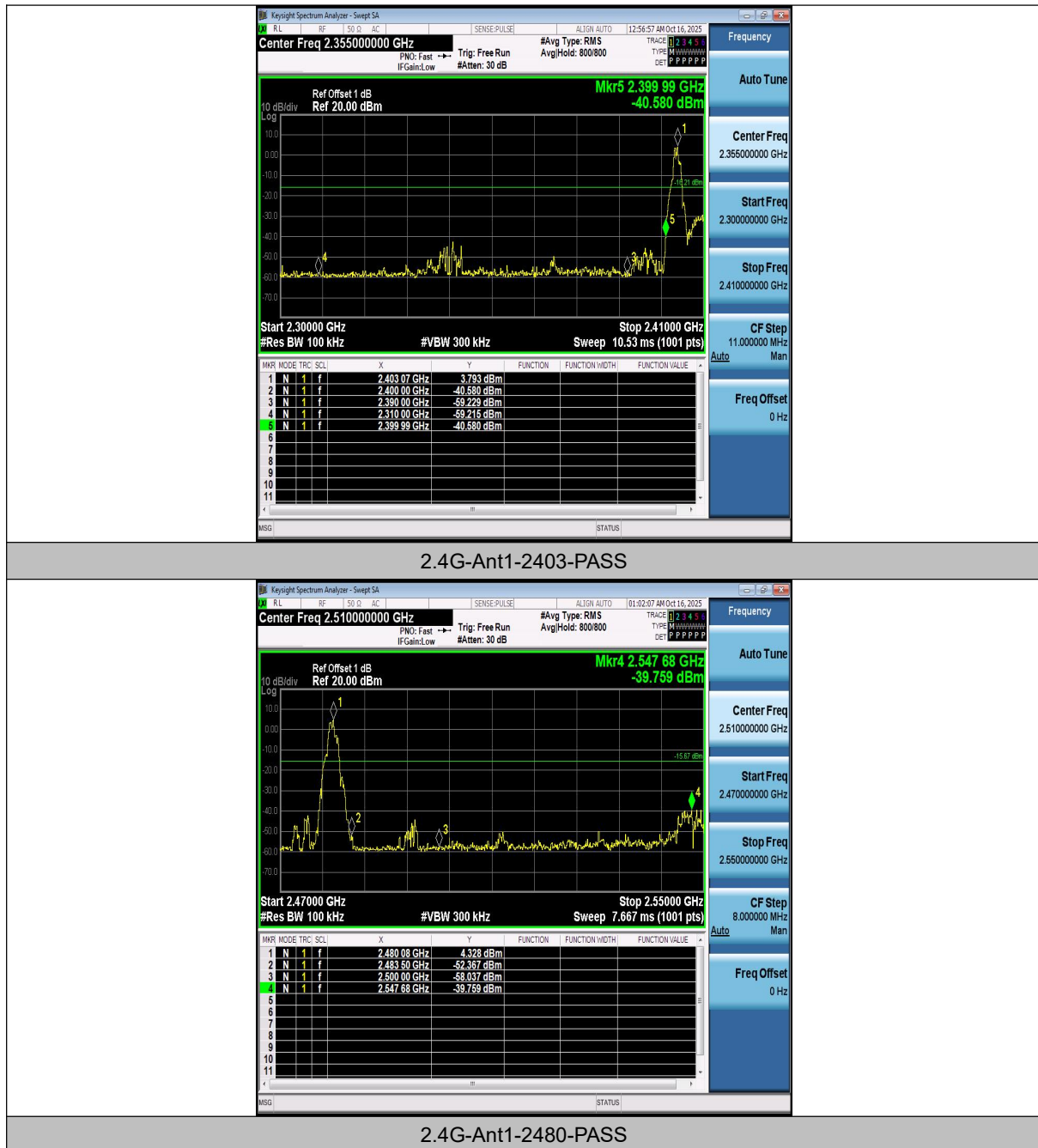
Appendix G: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	3.79	-40.58	≤ -16.21	PASS
2.4G	Ant1	High	2480	4.33	-39.76	≤ -15.67	PASS
2.4G	Ant1	Low	Hop	4.62	-38.81	≤ -15.38	PASS
2.4G	Ant1	High	Hop	4.91	-37.8	≤ -15.09	PASS

Remark: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

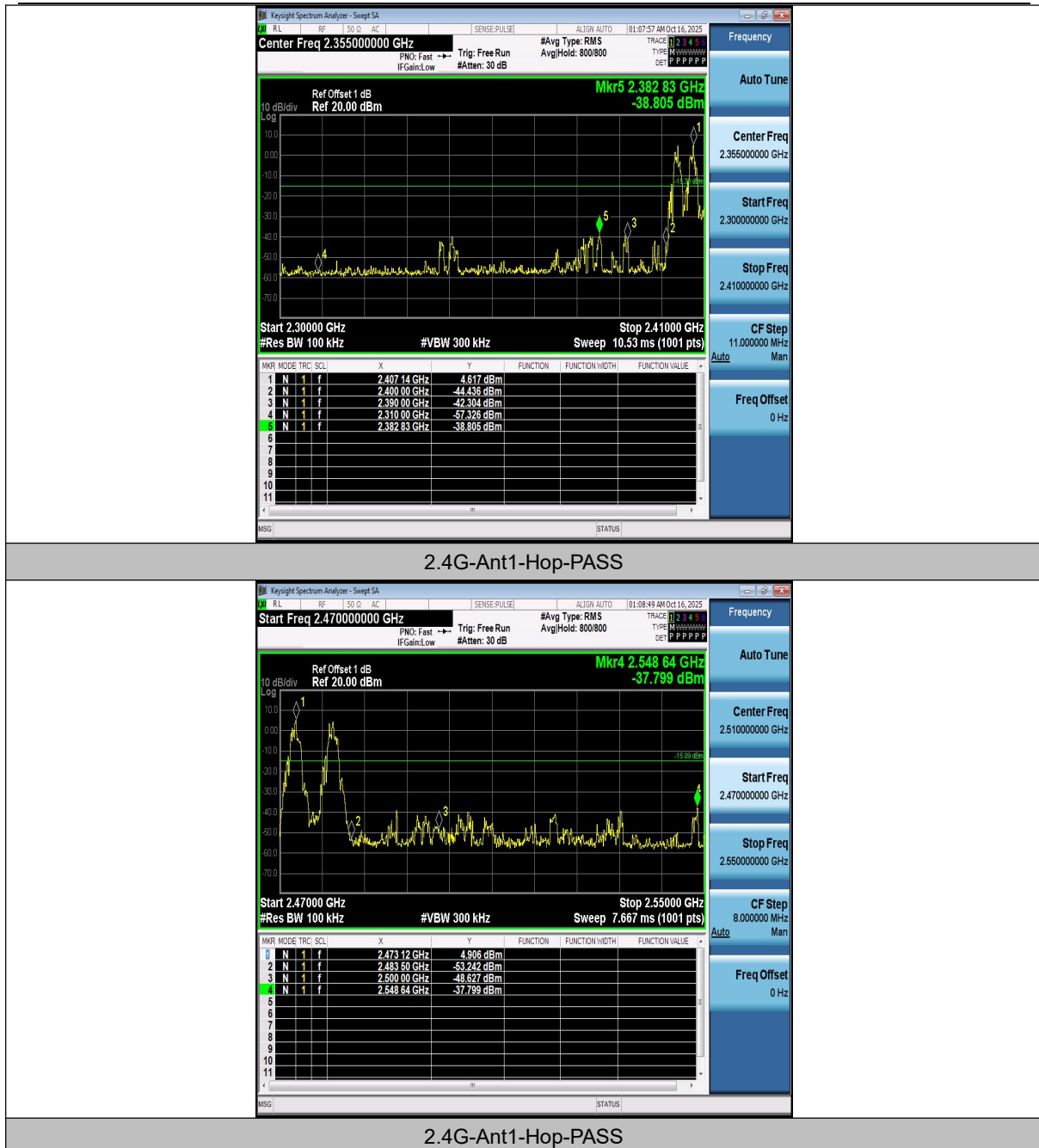
Test Graphs



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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403	0~Reference	4.44	4.44	---	PASS
2.4G	Ant1	2403	30~1000	4.44	-68.67	≤-15.56	PASS
2.4G	Ant1	2403	1000~26500	4.44	-51.57	≤-15.56	PASS
2.4G	Ant1	2441	0~Reference	4.42	4.42	---	PASS
2.4G	Ant1	2441	30~1000	4.42	-67.51	≤-15.58	PASS
2.4G	Ant1	2441	1000~26500	4.42	-53.23	≤-15.58	PASS
2.4G	Ant1	2480	0~Reference	4.57	4.57	---	PASS
2.4G	Ant1	2480	30~1000	4.57	-66.07	≤-15.43	PASS
2.4G	Ant1	2480	1000~26500	4.57	-51.44	≤-15.43	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs



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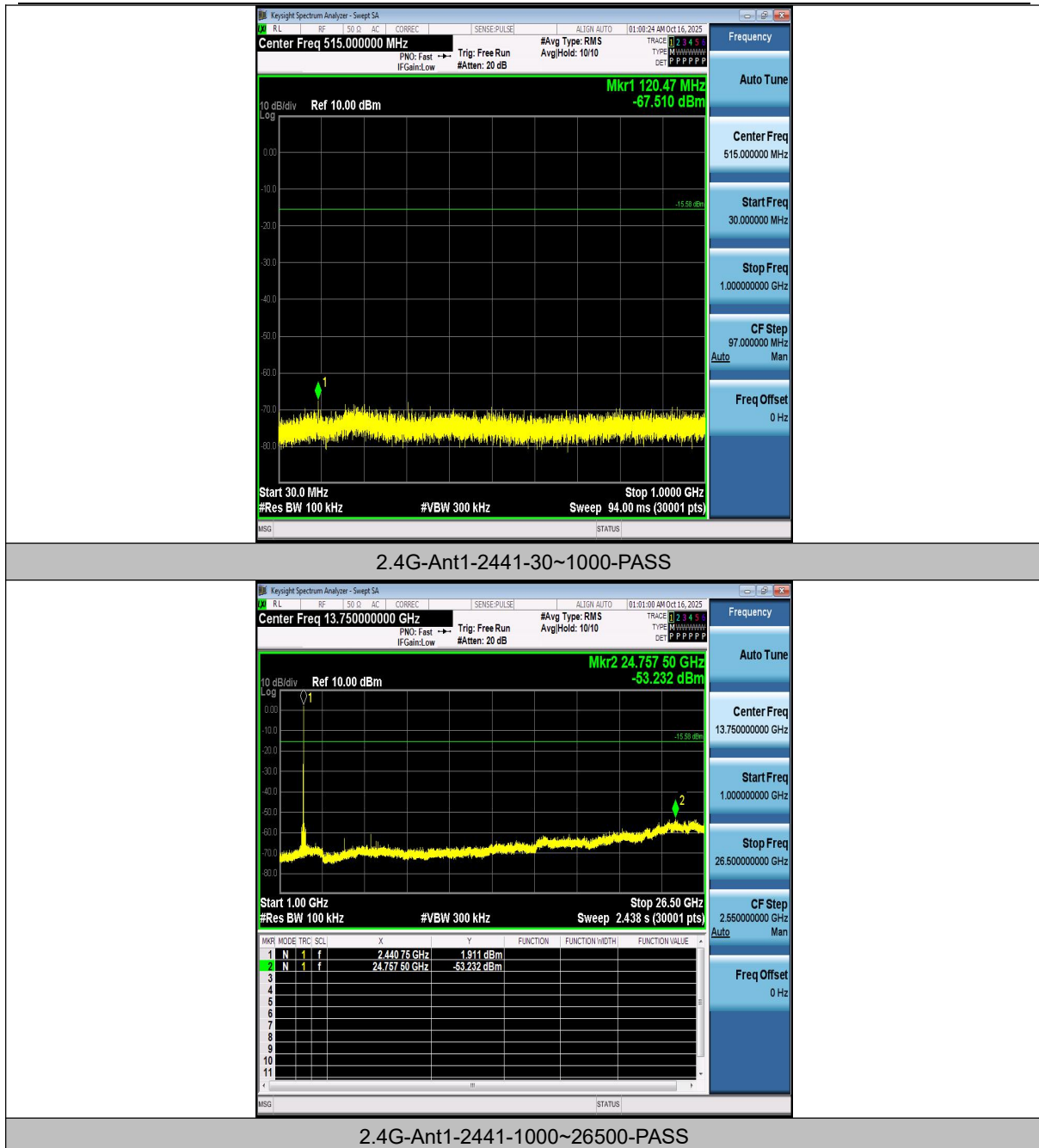
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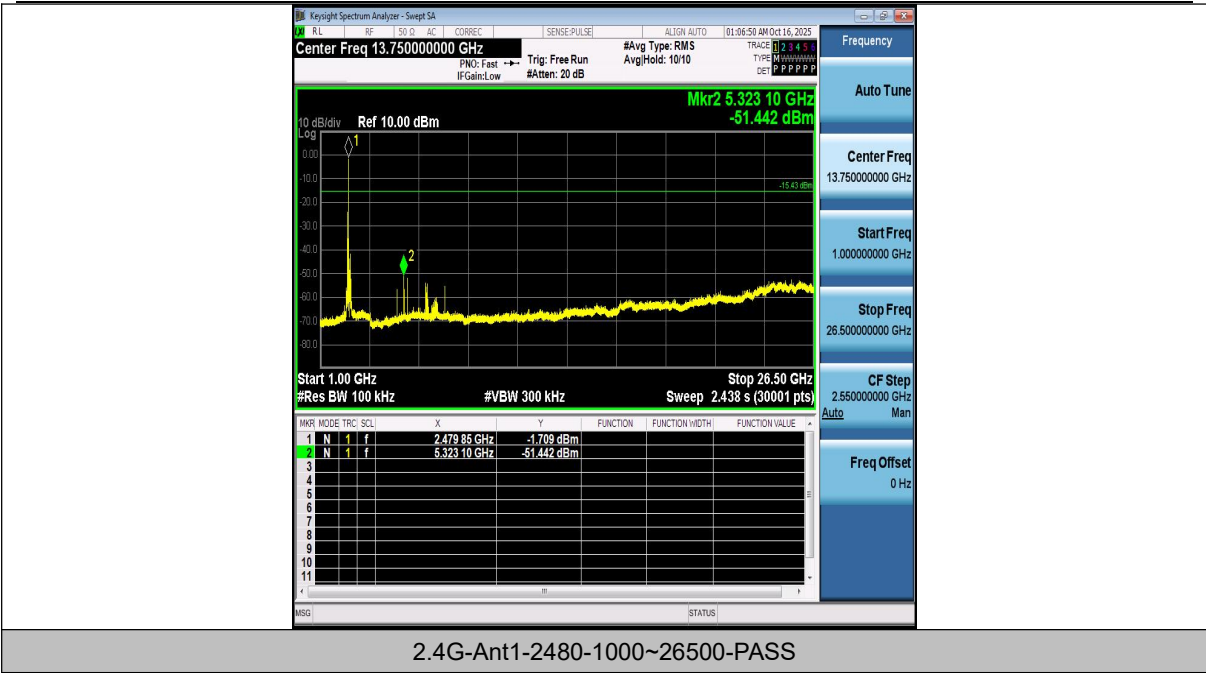
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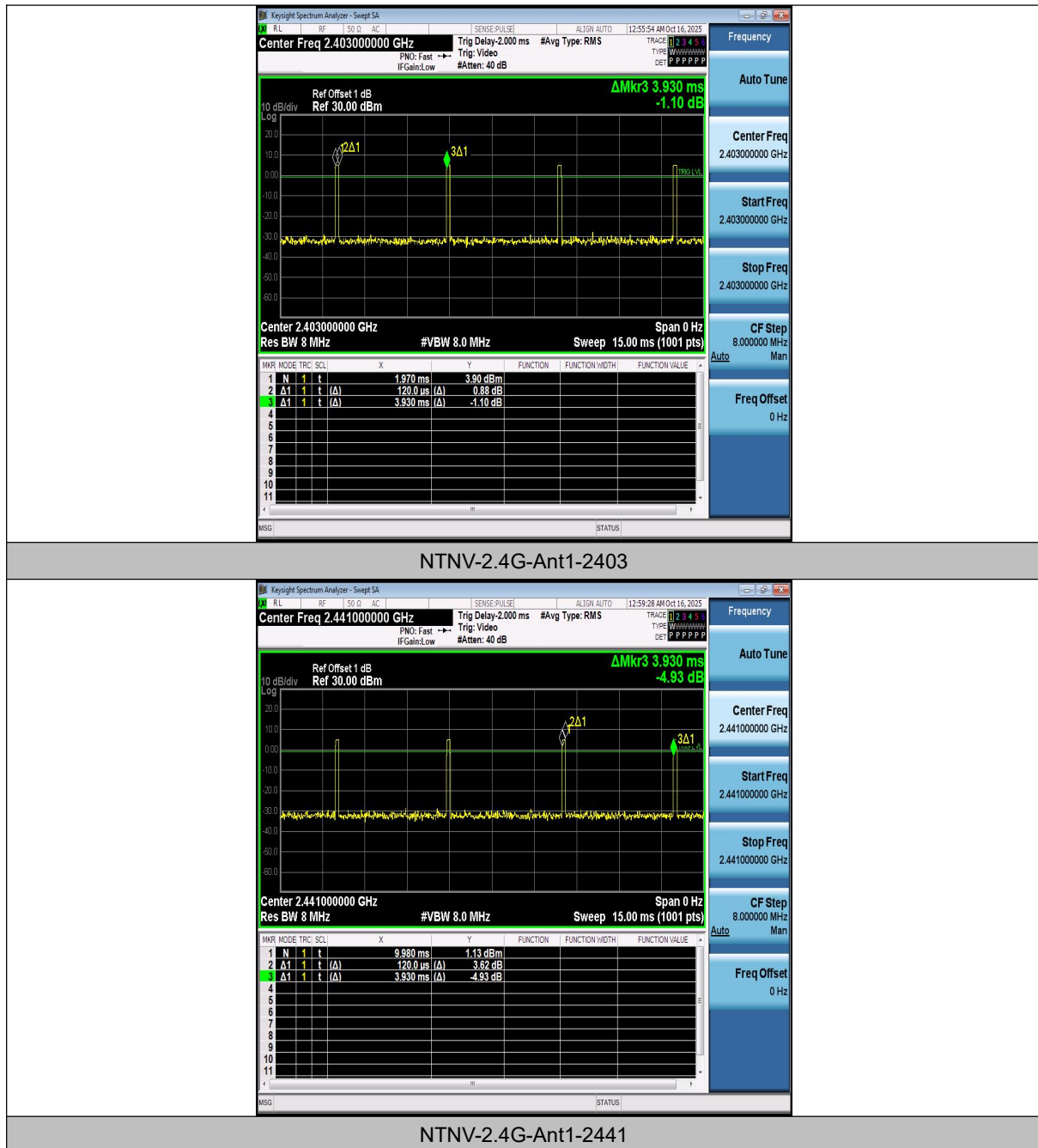
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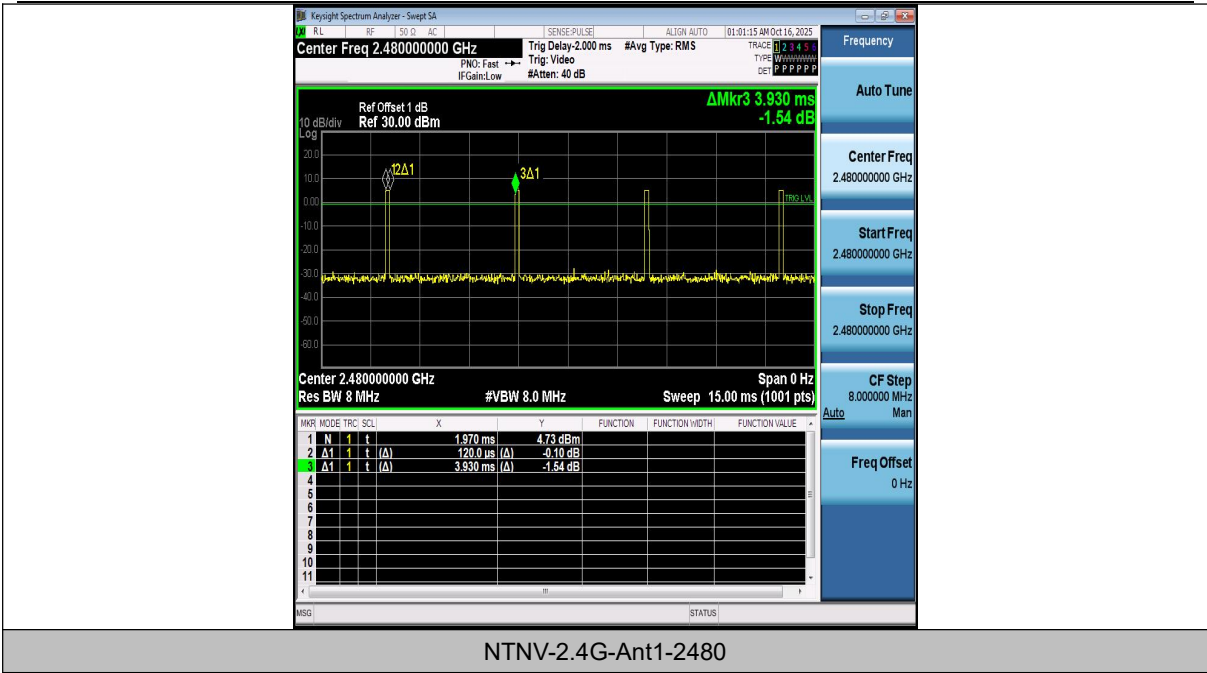
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	0.12	3.93	3.05	15.16
2.4G	Ant1	2441	0.12	3.93	3.05	15.16
2.4G	Ant1	2480	0.12	3.93	3.05	15.16

Test Graphs





---End---