

Appendix Test Data

Report No.:	1812C50510112502	Test Sample No.:	1-2-2
Start Test Date:	2025-10-14	Finish Test Date:	2025-10-15
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.4°C	Relative Humidity:	64%
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	2.270	2401.895	2404.165	---	---
2.4G	Ant1	2441	2.260	2439.900	2442.160	---	---
2.4G	Ant1	2480	2.260	2478.900	2481.160	---	---

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	2.2219	2401.8808	2404.1027	---	---
2.4G	Ant1	2441	2.2179	2439.8827	2442.1006	---	---
2.4G	Ant1	2480	2.1933	2478.9078	2481.1011	---	---

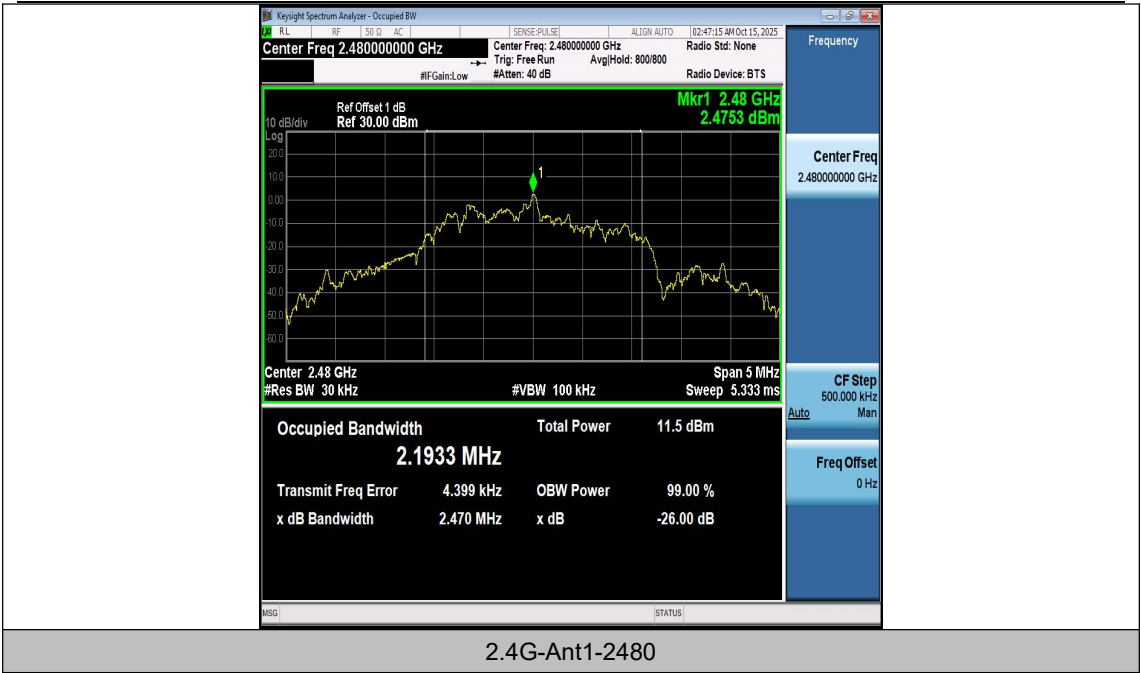
Test Graphs



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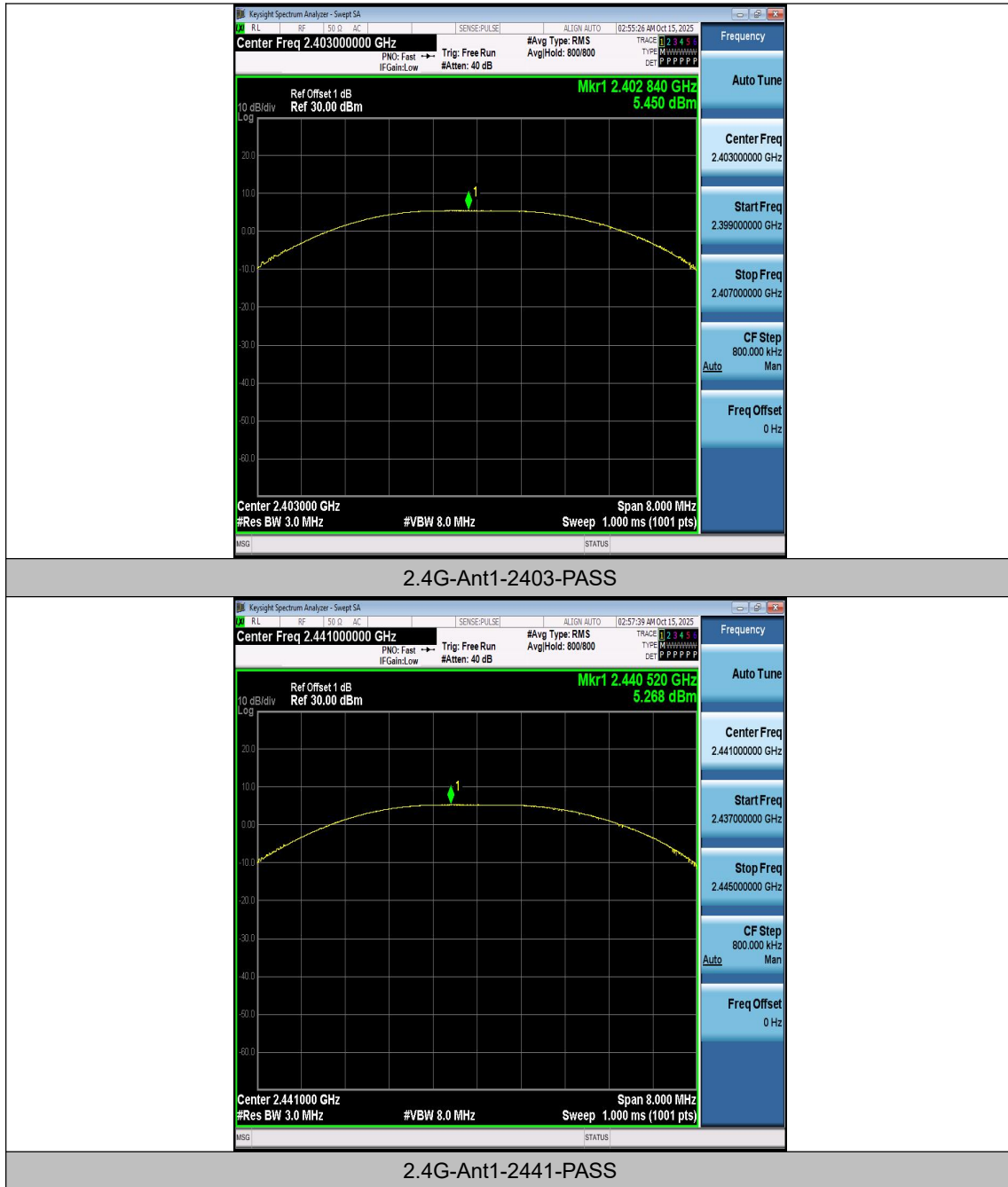
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Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2403	5.45	≤20.97	PASS
2.4G	Ant1	2441	5.27	≤20.97	PASS
2.4G	Ant1	2480	5.11	≤20.97	PASS

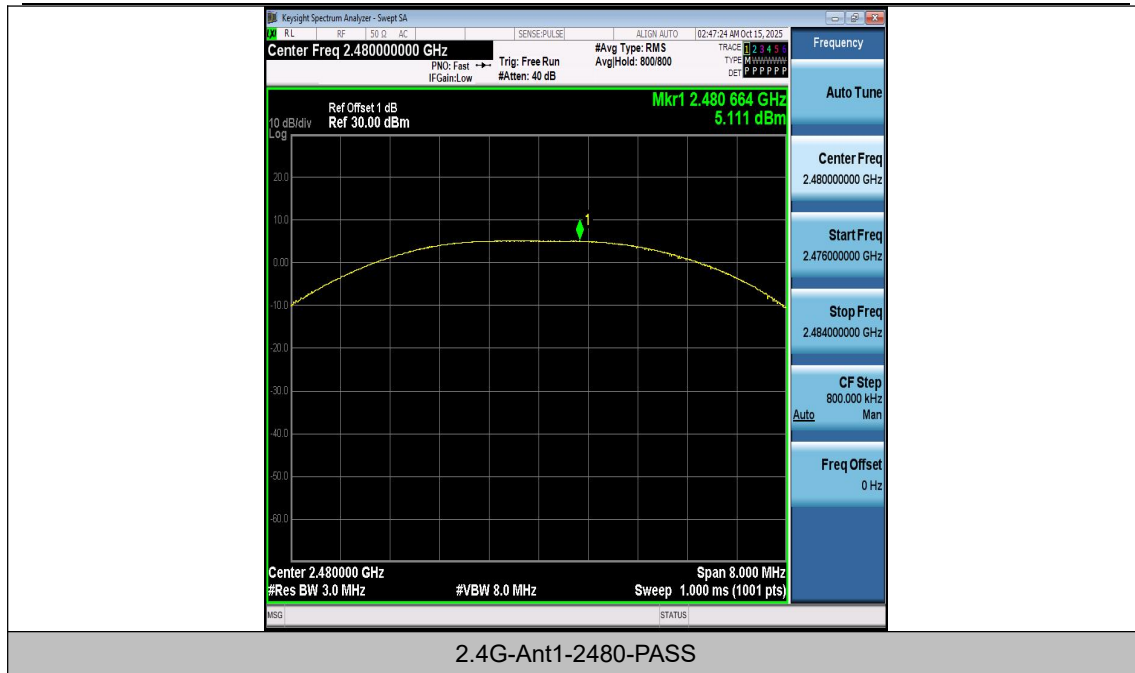
Test Graphs



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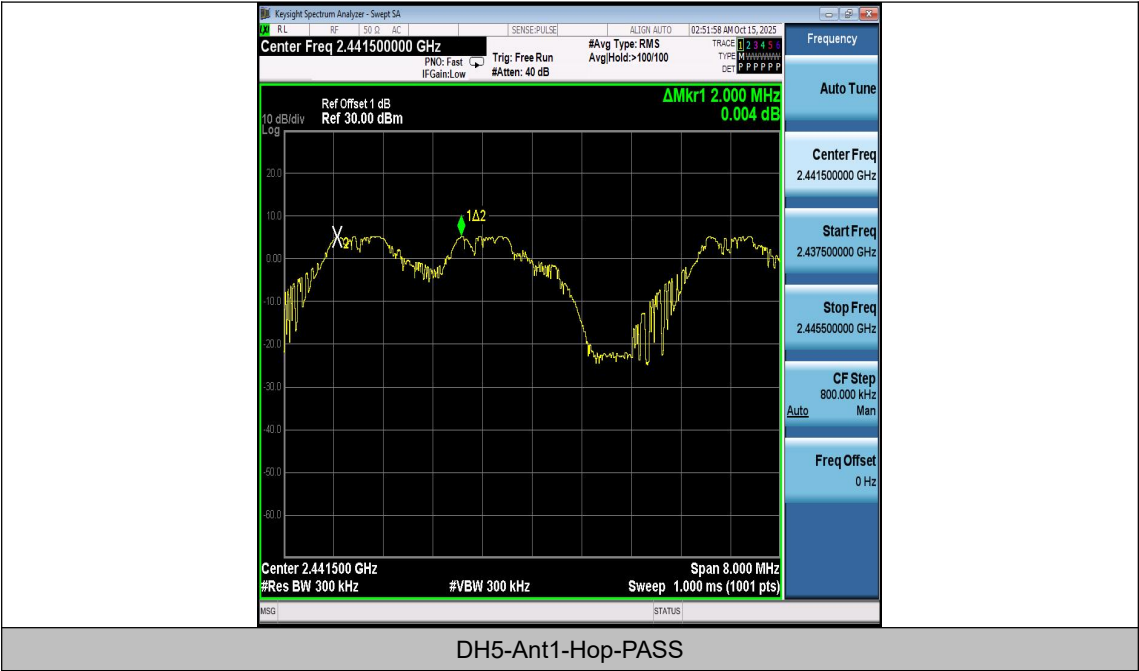
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	2.000	≥1.513	PASS

Test Graphs



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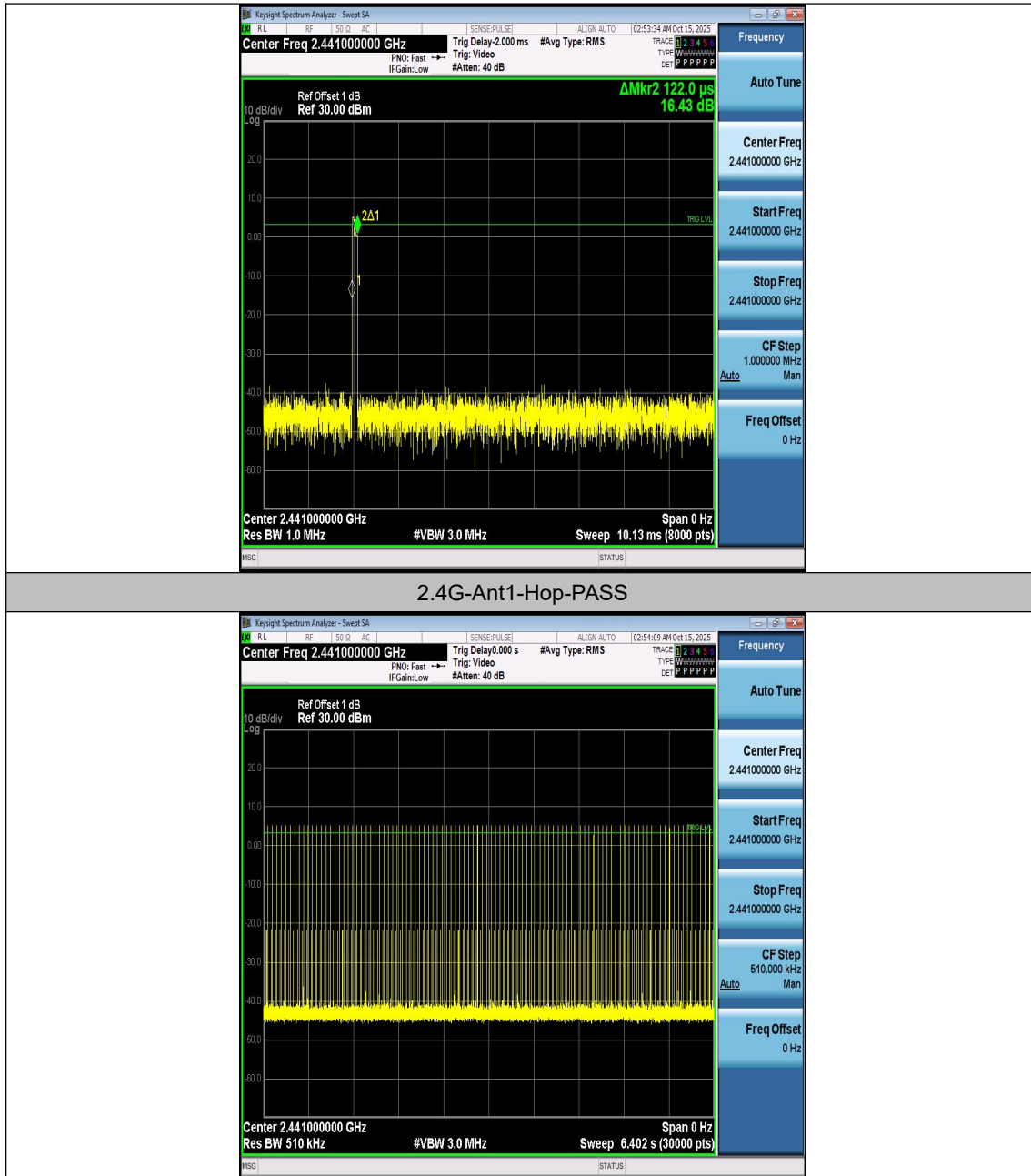
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Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
2.4G	Ant1	Hop	0.122	101	0.012	≤0.4	PASS

Test Graphs



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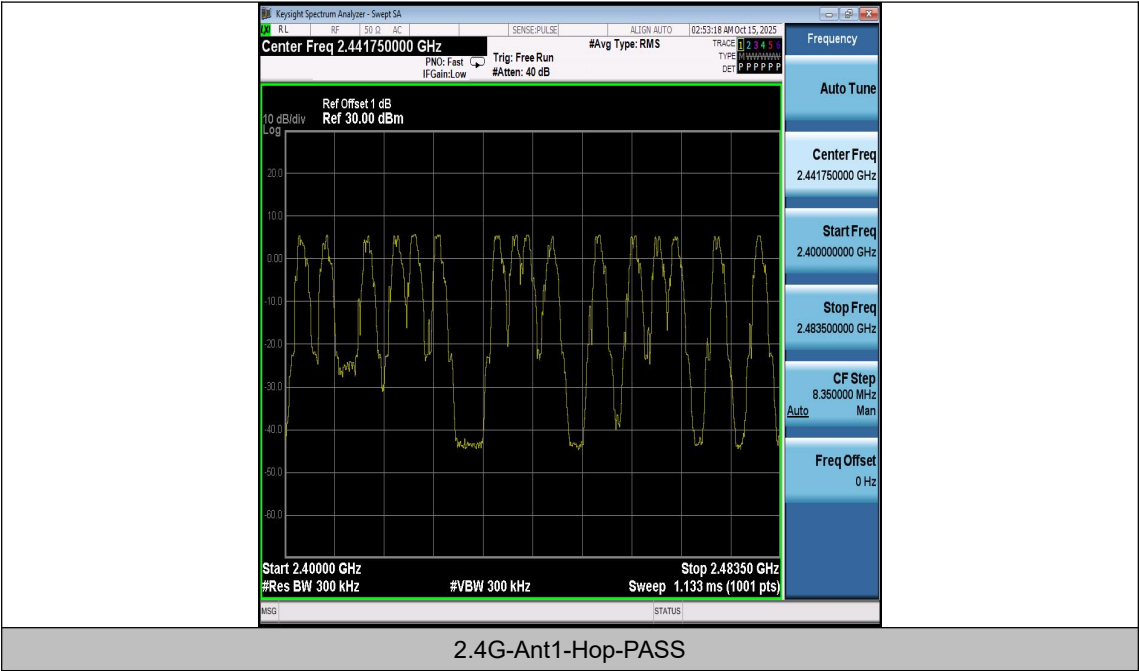
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Appendix F: Number of Hopping Channel

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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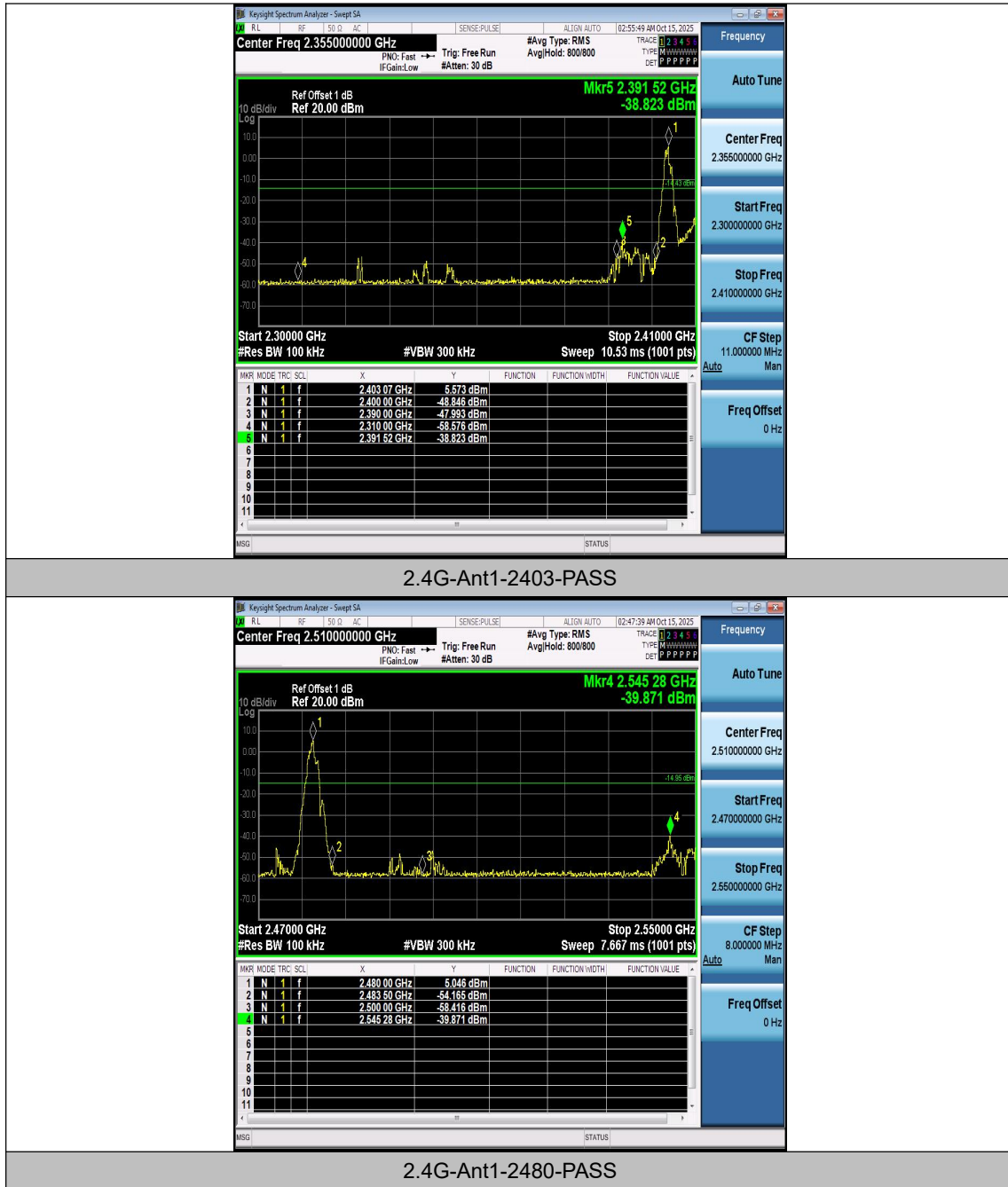
Appendix G: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2403	5.57	-38.82	≤-14.43	PASS
2.4G	Ant1	High	2480	5.05	-39.87	≤-14.95	PASS
2.4G	Ant1	Low	Hop	5.54	-39.66	≤-14.46	PASS
2.4G	Ant1	High	Hop	4.81	-44.16	≤-15.19	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.

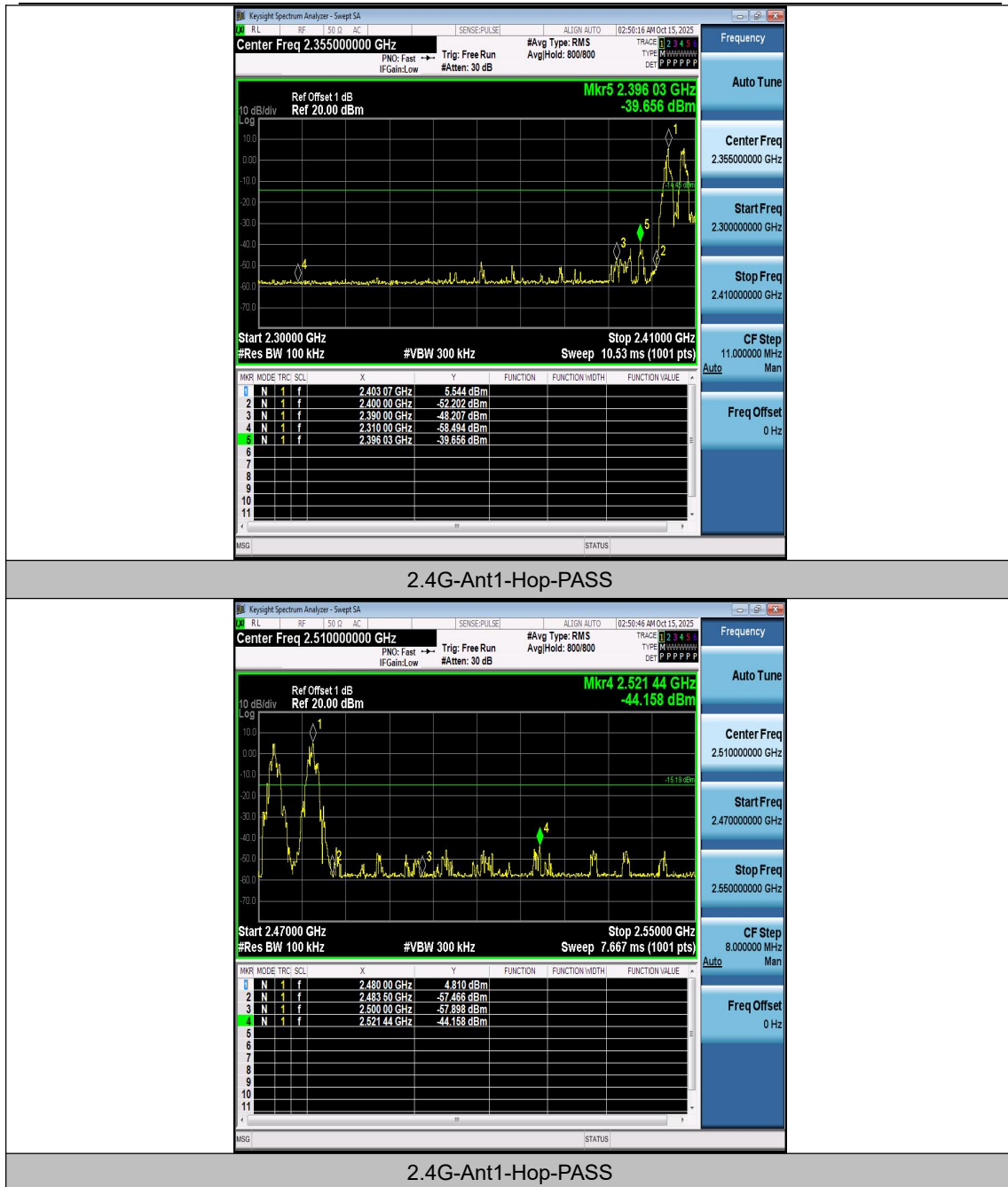
Test Graphs



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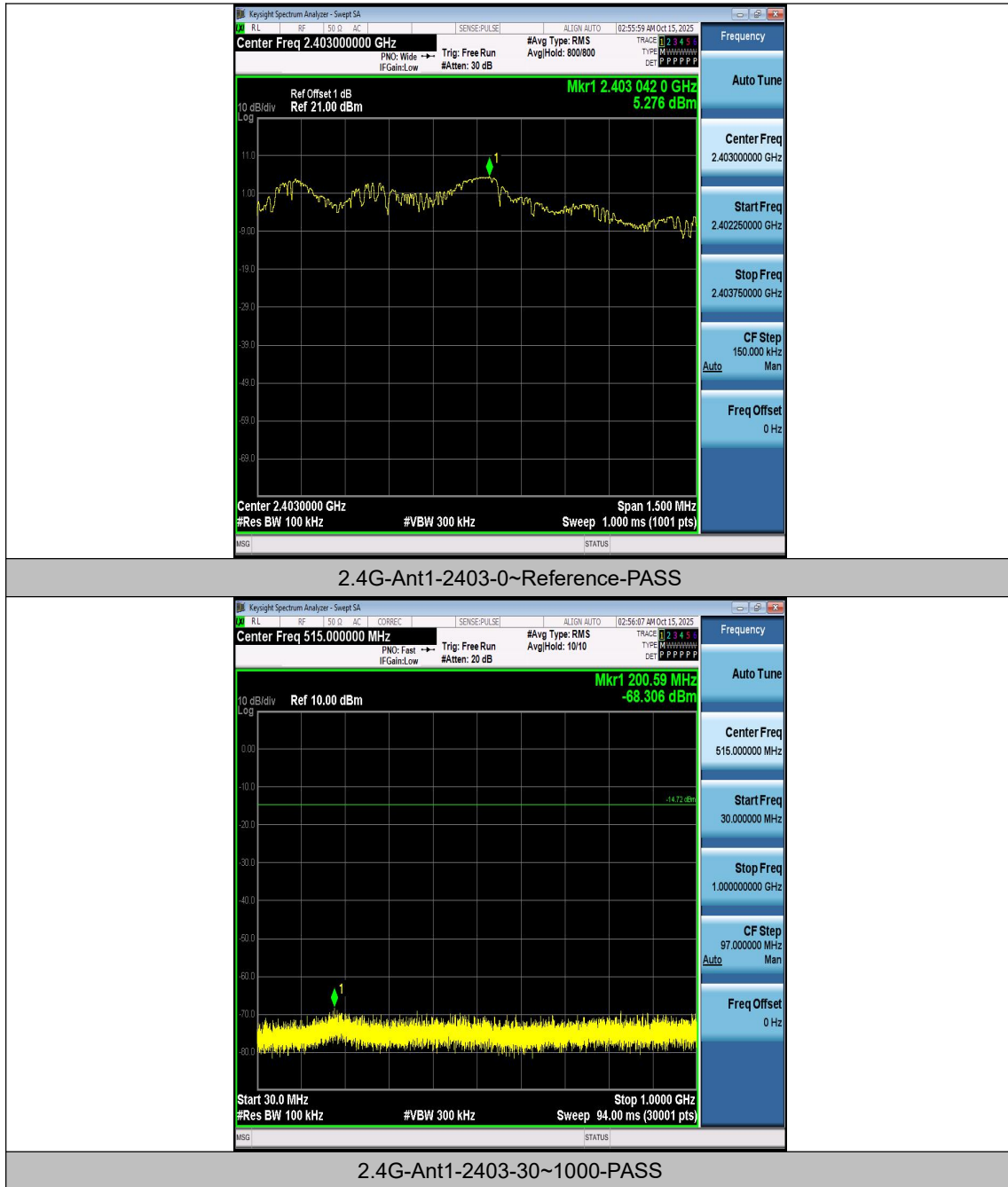
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2403	0~Reference	5.28	5.28	---	PASS
2.4G	Ant1	2403	30~1000	5.28	-68.31	≤-14.72	PASS
2.4G	Ant1	2403	1000~26500	5.28	-43.68	≤-14.72	PASS
2.4G	Ant1	2441	0~Reference	5.10	5.10	---	PASS
2.4G	Ant1	2441	30~1000	5.10	-69.09	≤-14.9	PASS
2.4G	Ant1	2441	1000~26500	5.10	-51.81	≤-14.9	PASS
2.4G	Ant1	2480	0~Reference	4.97	4.97	---	PASS
2.4G	Ant1	2480	30~1000	4.97	-67.9	≤-15.03	PASS
2.4G	Ant1	2480	1000~26500	4.97	-40.76	≤-15.03	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.

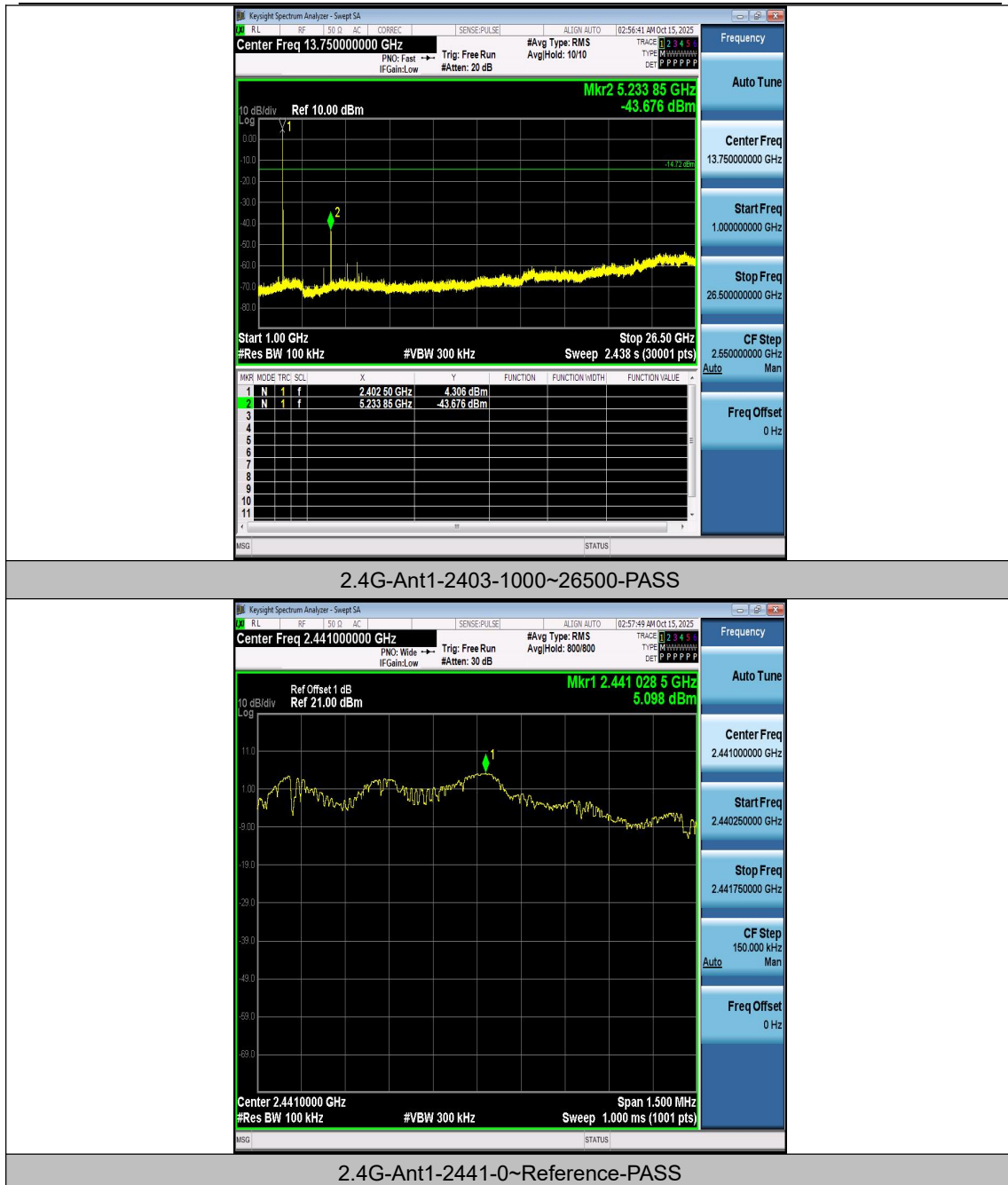
Test Graphs

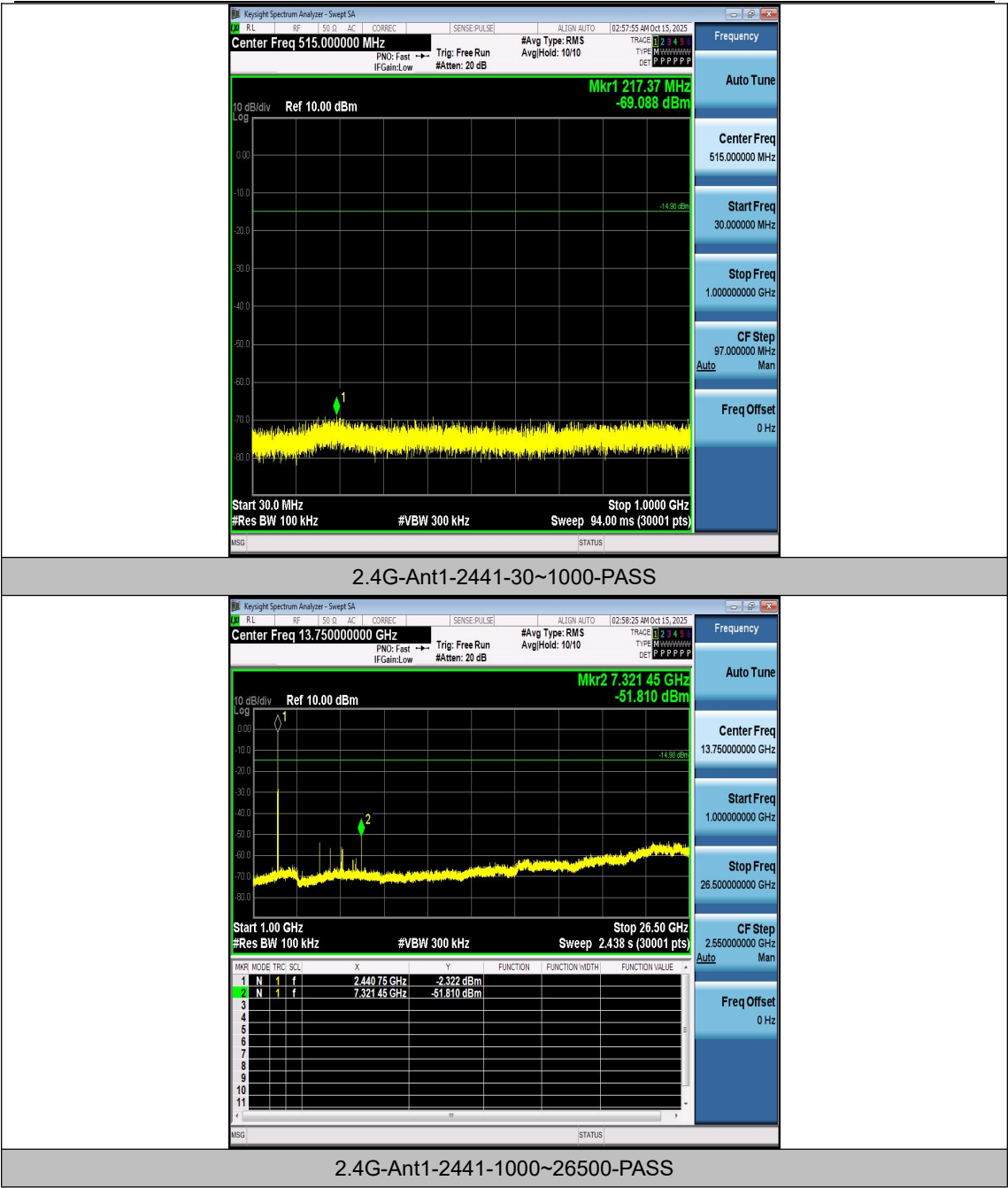


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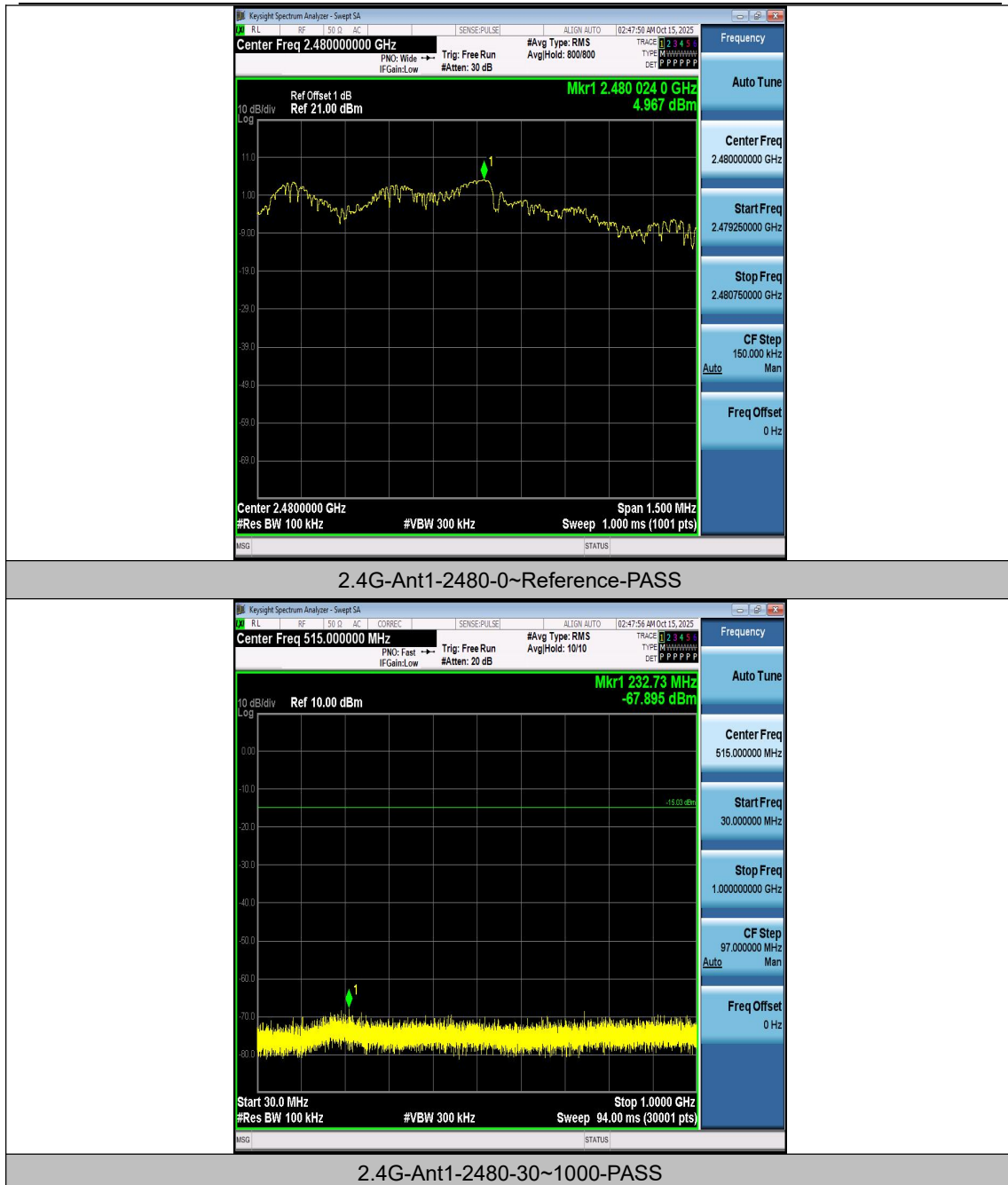




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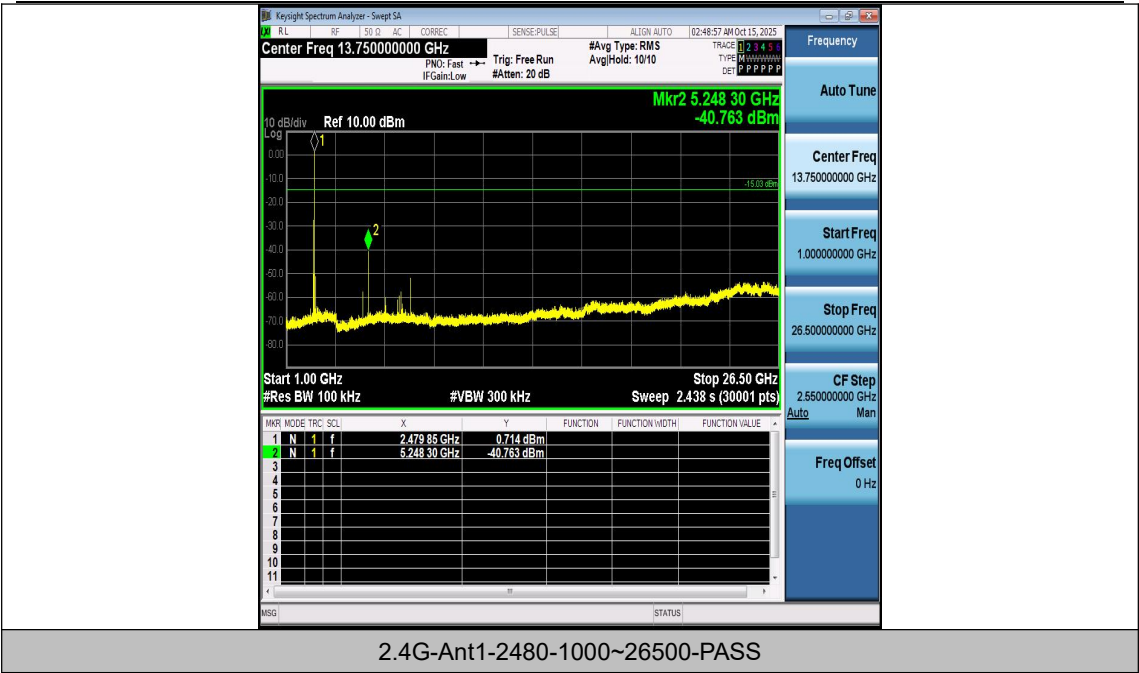
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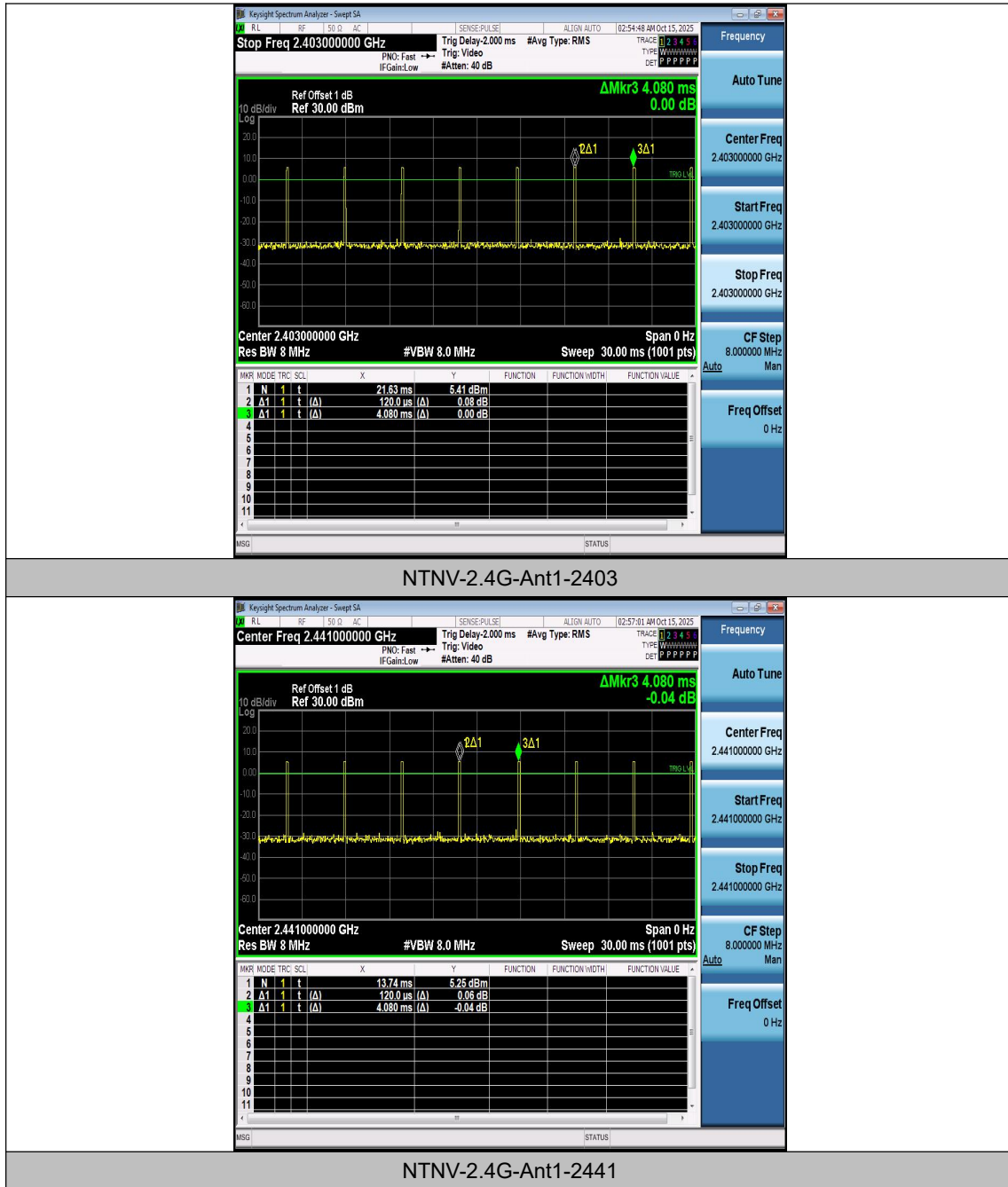
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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2403	0.12	4.08	2.94	15.32
2.4G	Ant1	2441	0.12	4.08	2.94	15.32
2.4G	Ant1	2480	0.12	3.93	3.05	15.16

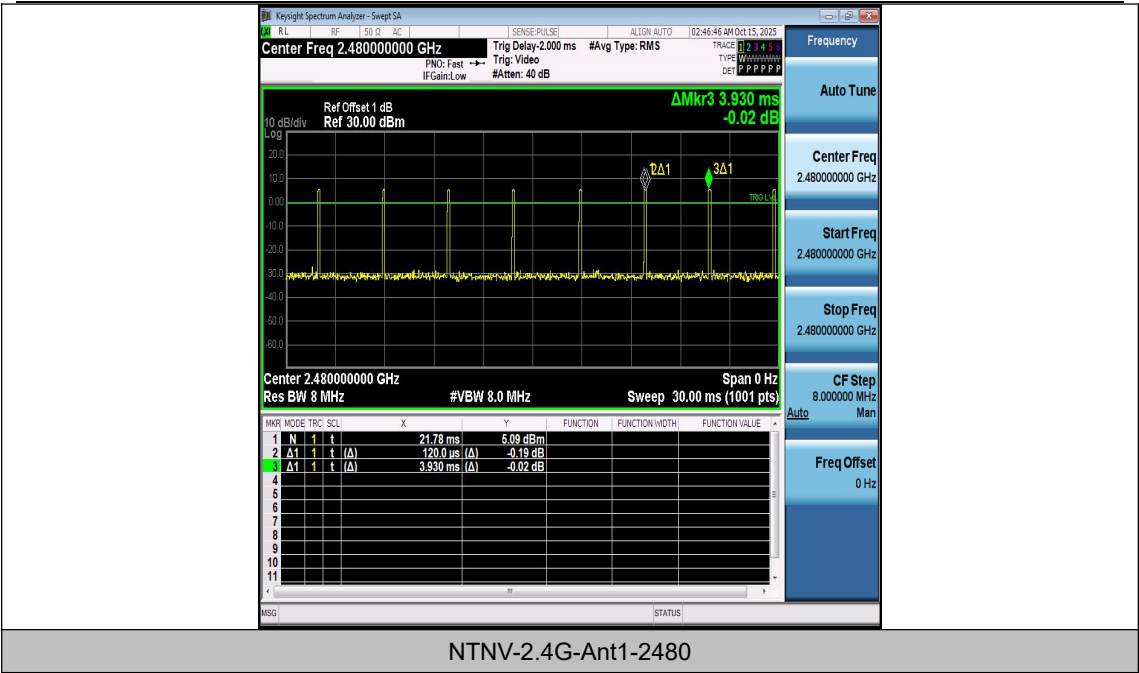
Test Graphs



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