

Appendix Test Data

Report No.:	1812C50467412501	Test Sample No.:	1-2-2
Start Test Date:	2025-9-16	Finish Test Date:	2025-9-16
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.9°C	Relative Humidity:	54%
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	2405	1.565	2404.270	2405.835	---	---
2.4G	Ant1	2441	1.580	2440.260	2441.840	---	---
2.4G	Ant1	2475	1.465	2474.250	2475.715	---	---

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	2405	1.7273	2404.1155	2405.8428	---	---
2.4G	Ant1	2441	1.7348	2440.1048	2441.8396	---	---
2.4G	Ant1	2475	1.7354	2474.1098	2475.8452	---	---

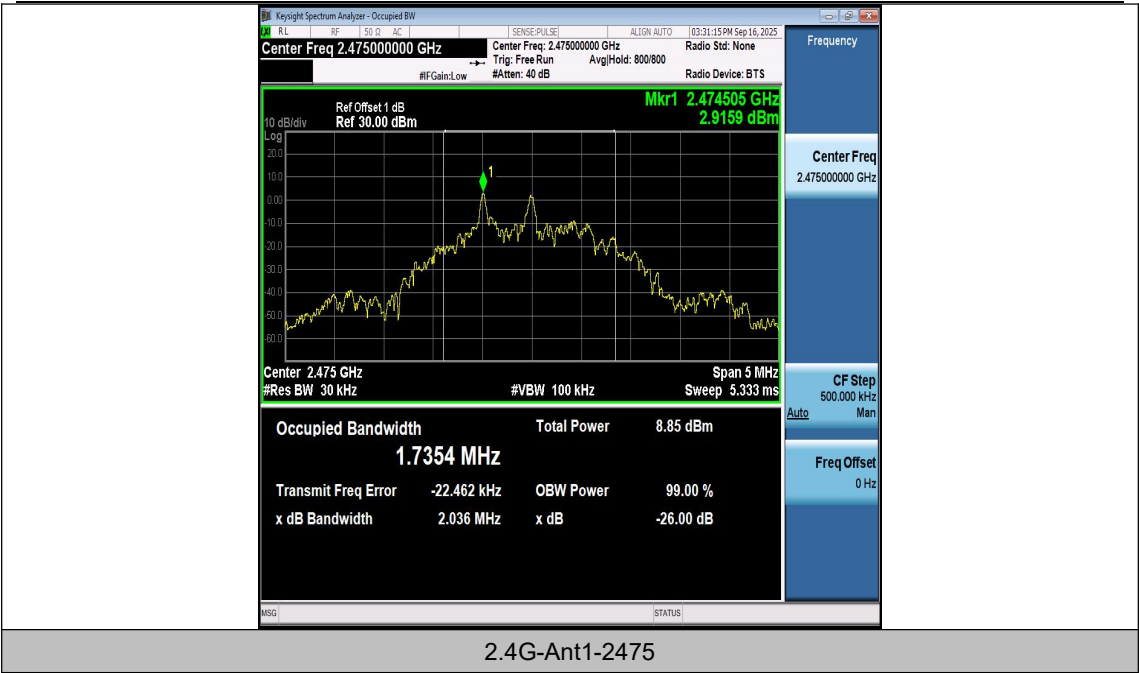
Test Graphs



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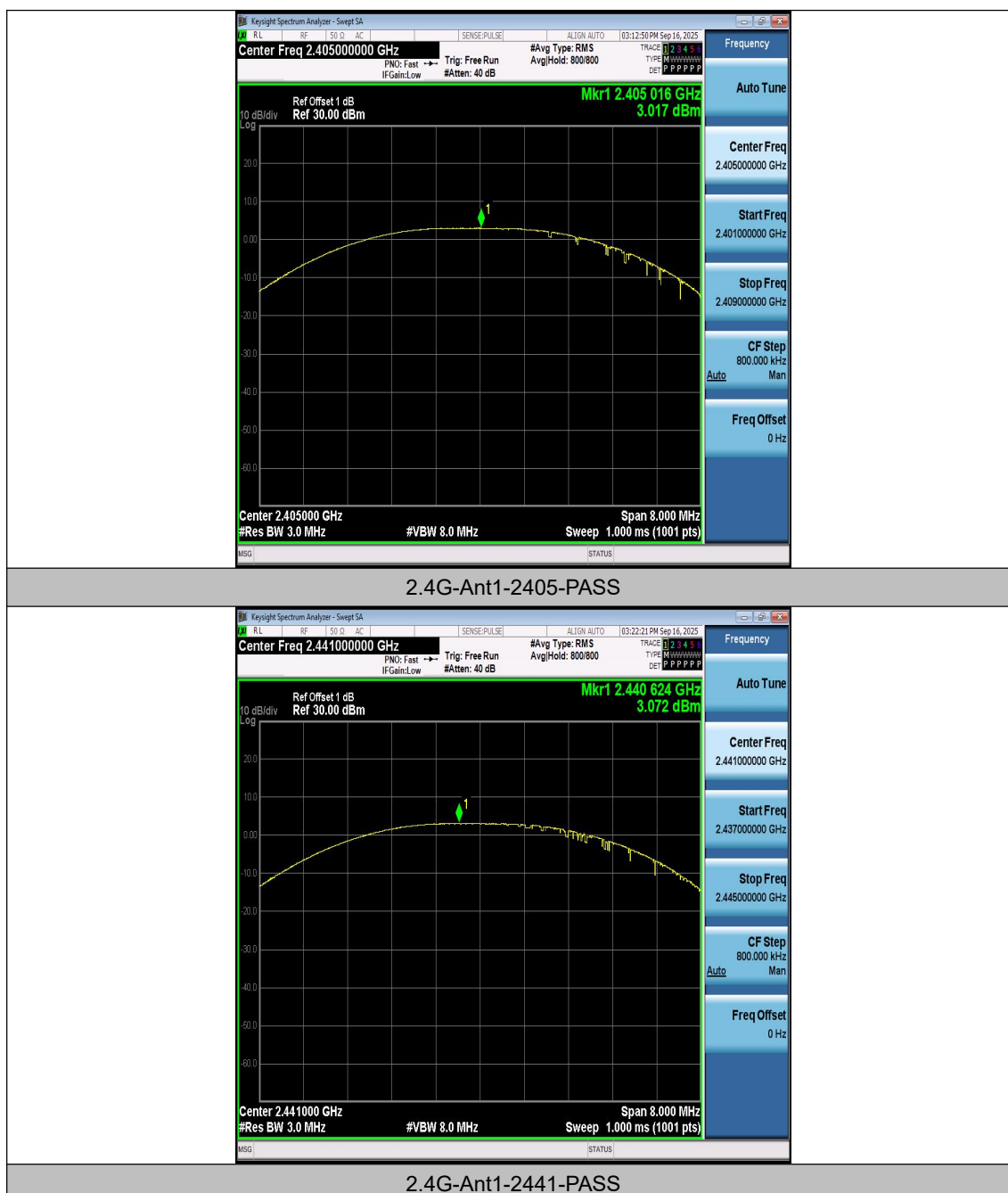
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Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant1	2405	3.02	≤20.97	PASS
2.4G	Ant1	2441	3.07	≤20.97	PASS
2.4G	Ant1	2475	3.27	≤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	2.04	≥0.025	PASS

Test Graphs



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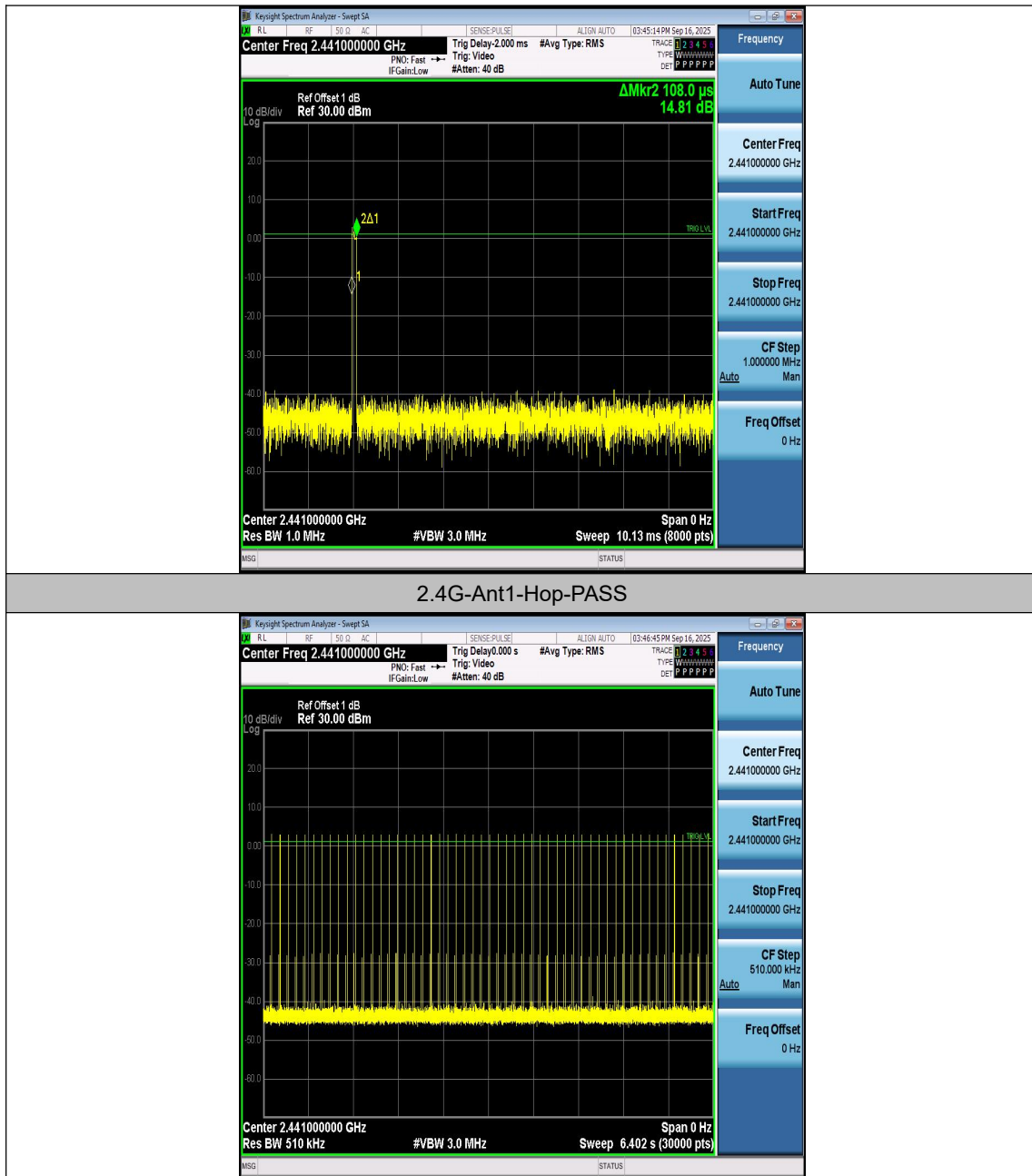
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Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
2.4G	Ant1	Hop	0.108	53	0.006	≤0.4	PASS

Test Graphs



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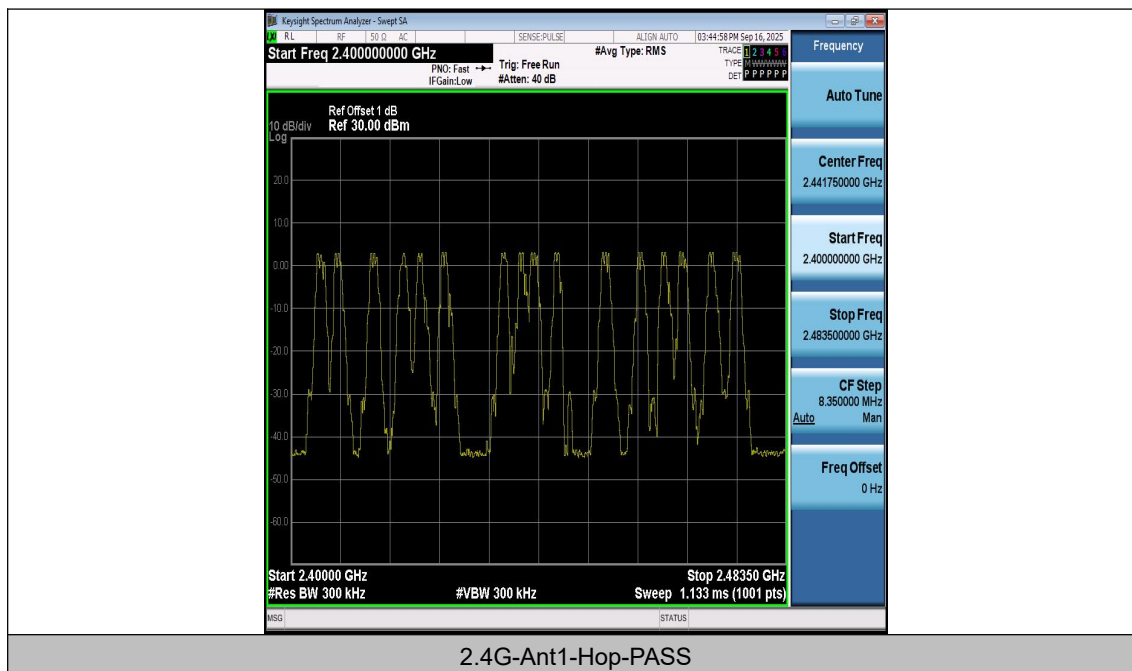
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Appendix F: Number of Hopping Channel

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
2.4G	Ant1	Hop	16	≥15	PASS



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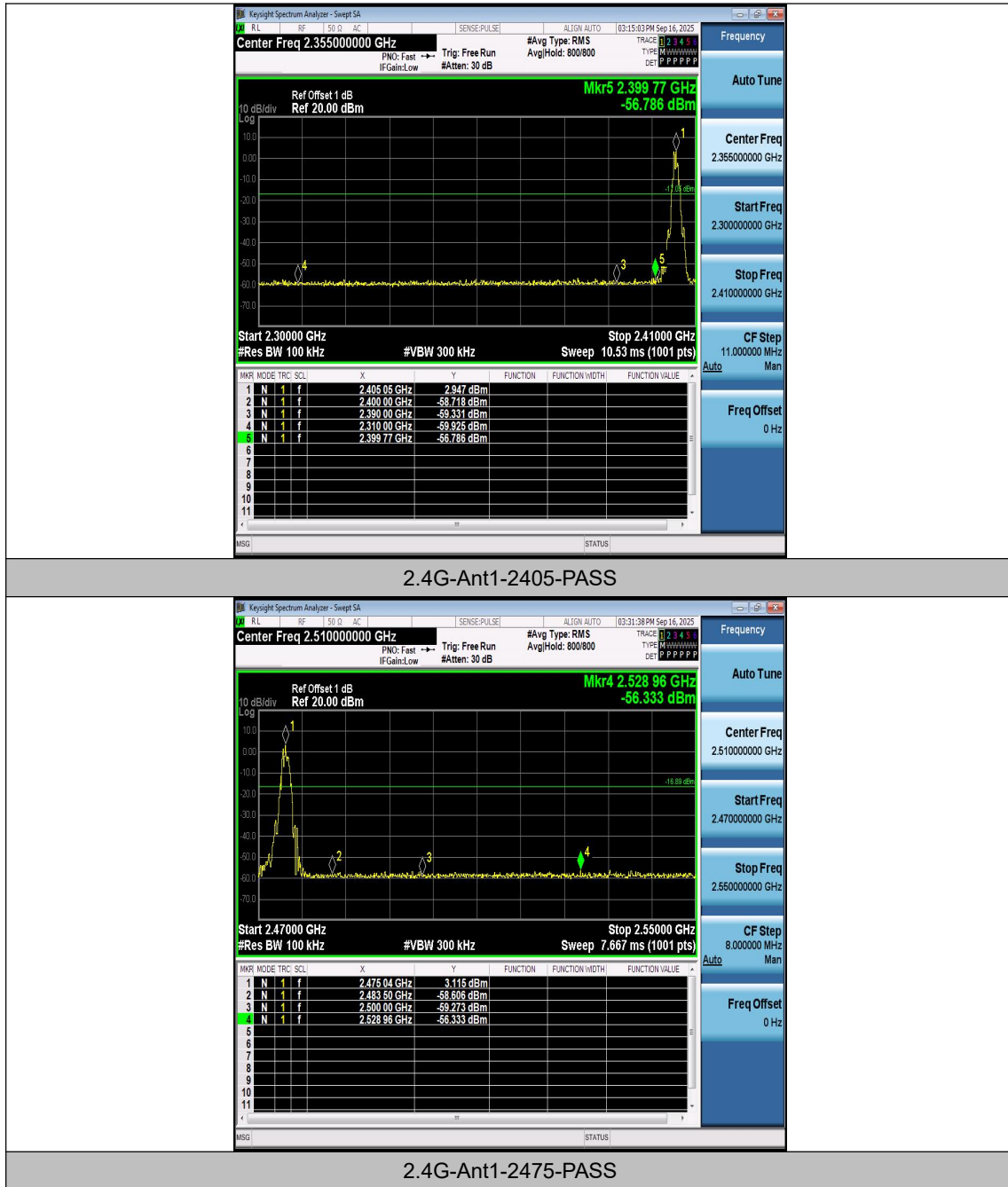
Appendix G: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2405	2.95	-56.79	≤-17.05	PASS
2.4G	Ant1	High	2475	3.12	-56.33	≤-16.89	PASS
2.4G	Ant1	Low	Hop	2.96	-56.48	≤-17.04	PASS
2.4G	Ant1	High	Hop	3.16	-55.4	≤-16.84	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.

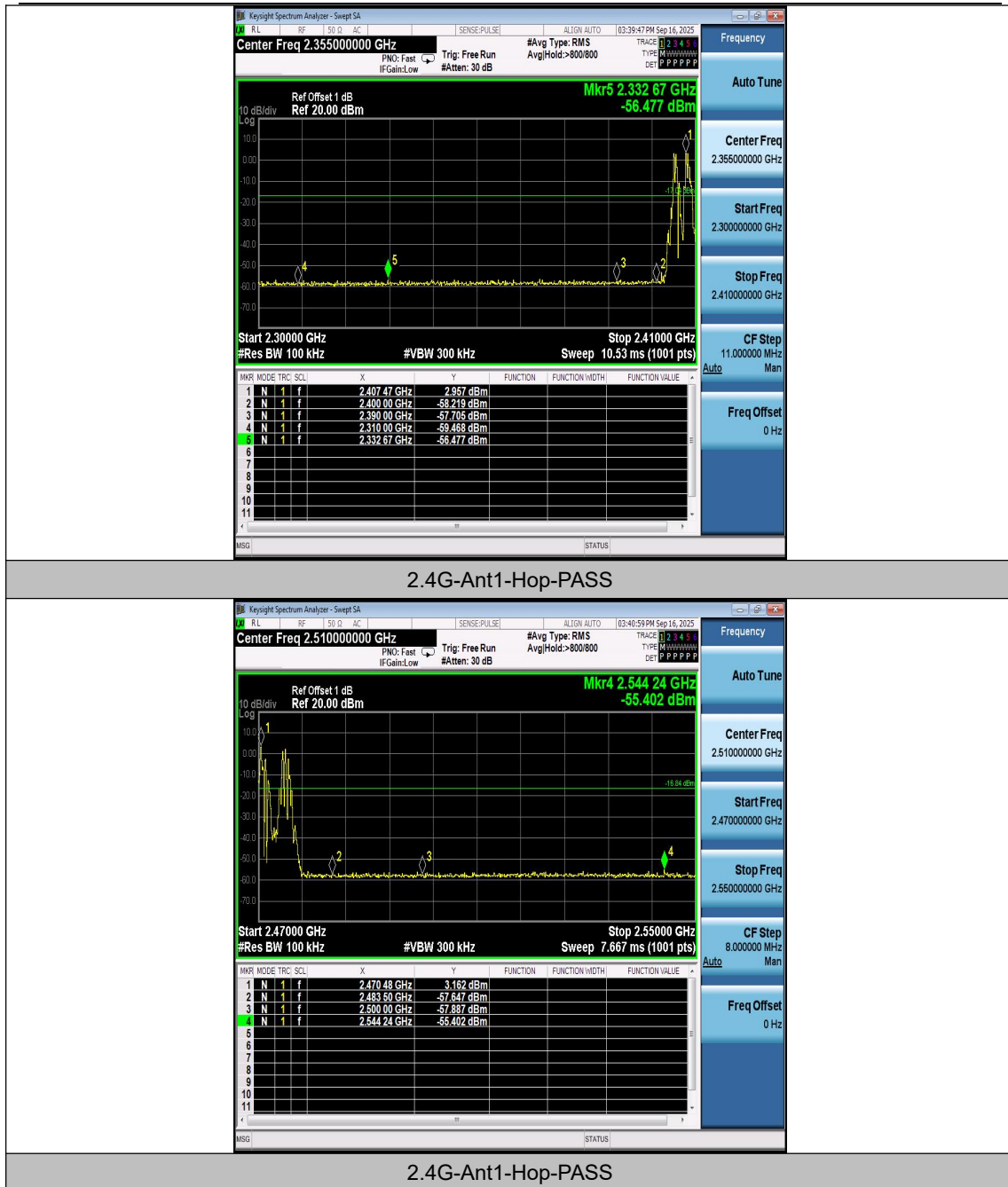
Test Graphs



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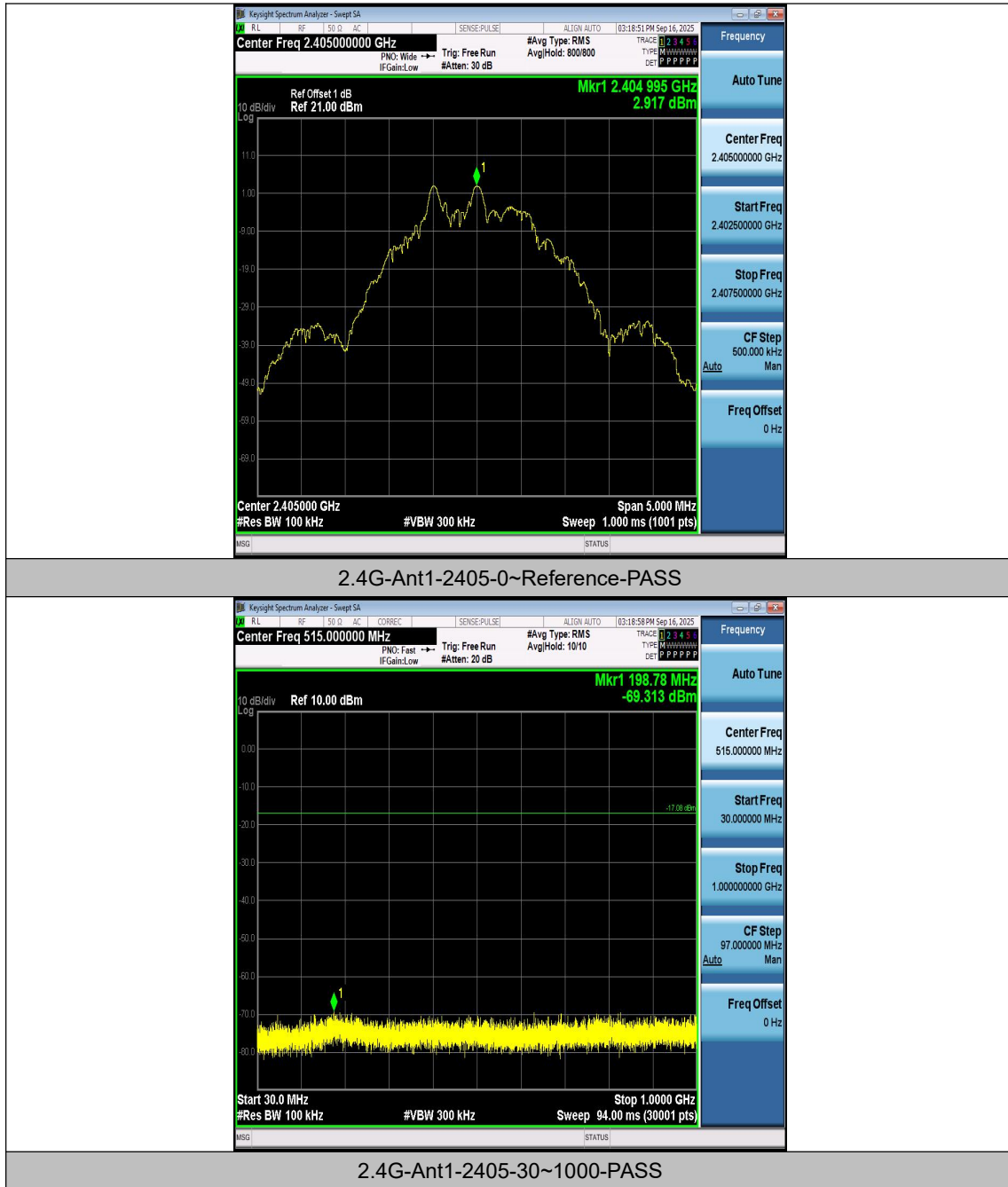
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2405	0~Reference	2.92	2.92	---	PASS
2.4G	Ant1	2405	30~1000	2.92	-69.31	≤-17.08	PASS
2.4G	Ant1	2405	1000~26500	2.92	-51.37	≤-17.08	PASS
2.4G	Ant1	2441	0~Reference	2.97	2.97	---	PASS
2.4G	Ant1	2441	30~1000	2.97	-36.55	≤-17.03	PASS
2.4G	Ant1	2441	1000~26500	2.97	-53.33	≤-17.03	PASS
2.4G	Ant1	2475	0~Reference	3.20	3.20	---	PASS
2.4G	Ant1	2475	30~1000	3.20	-69.38	≤-16.8	PASS
2.4G	Ant1	2475	1000~26500	3.20	-53.04	≤-16.8	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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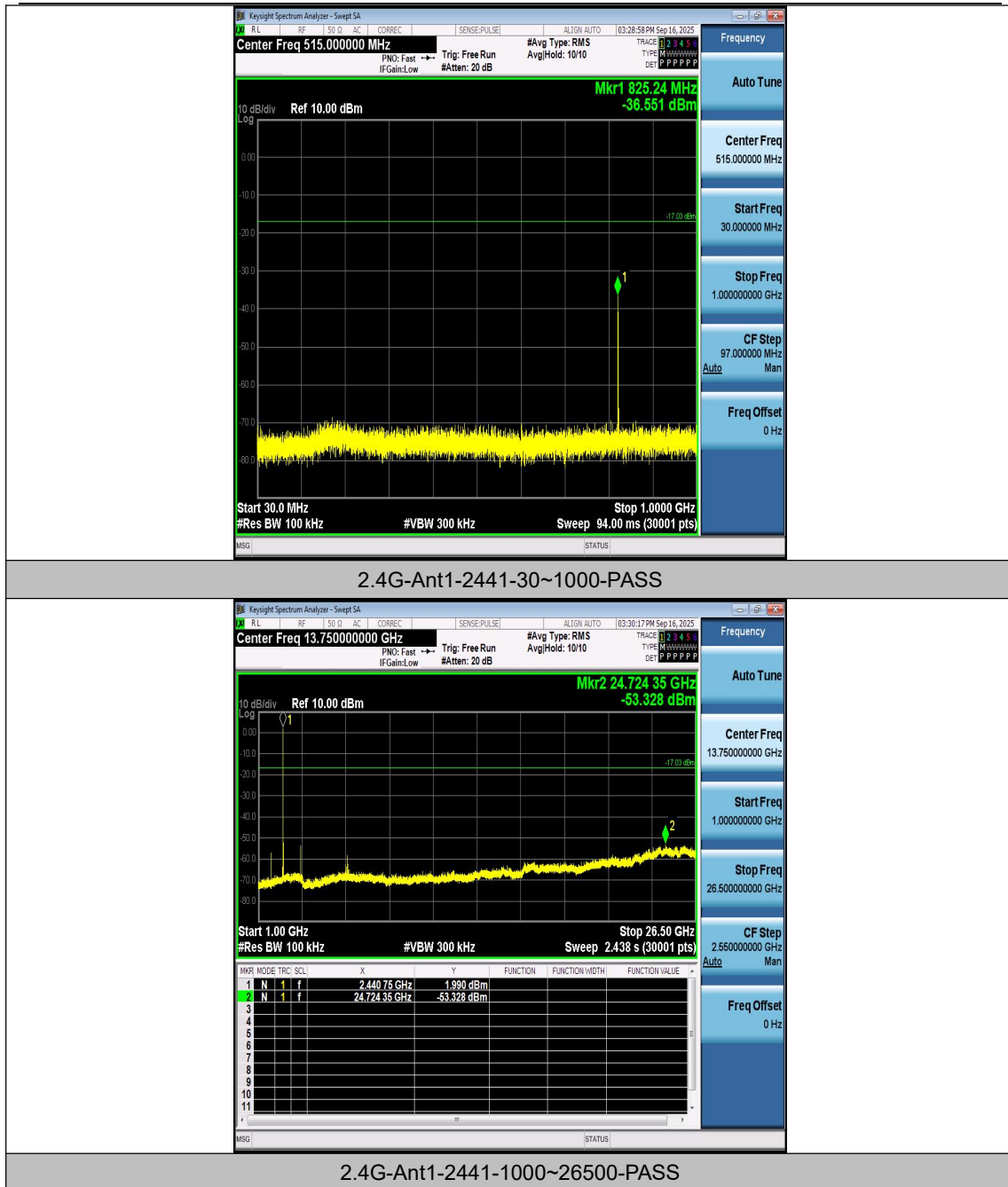
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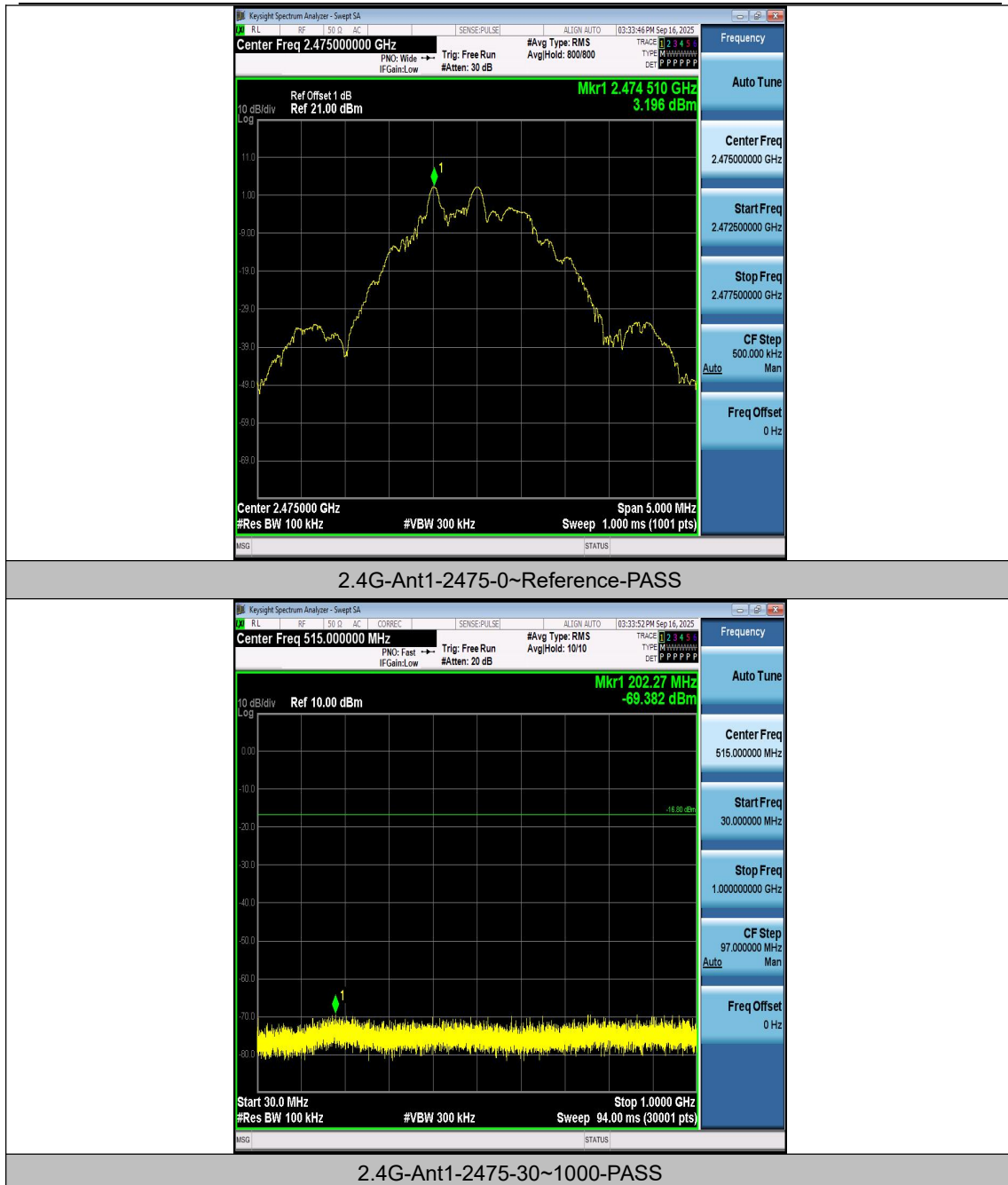
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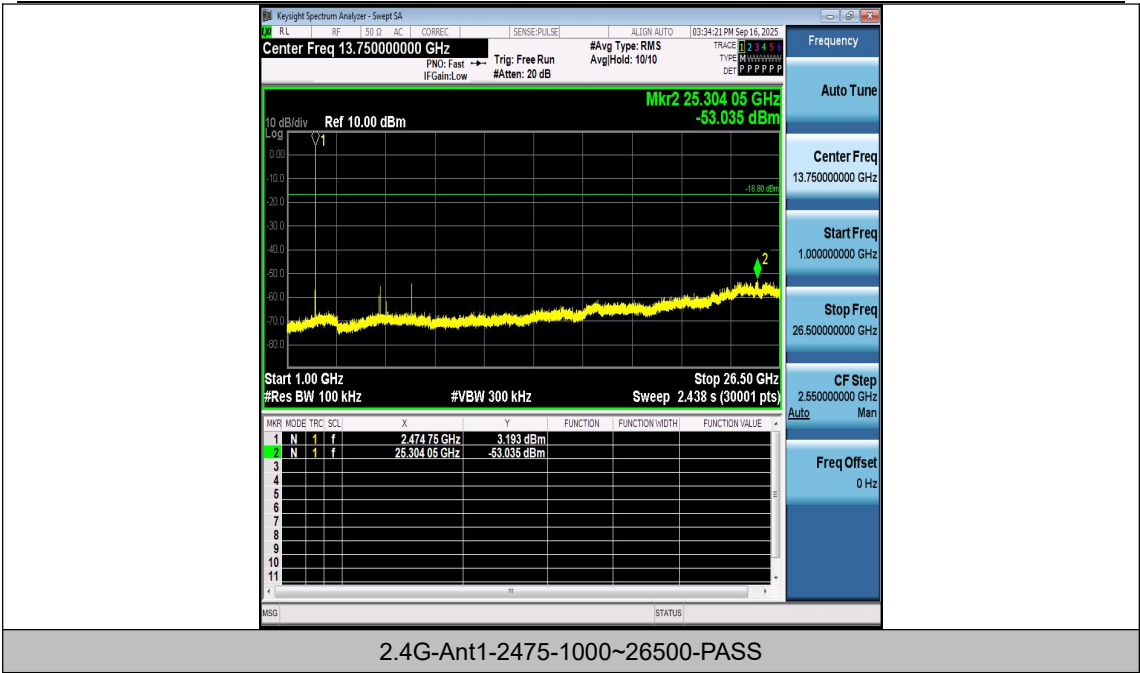
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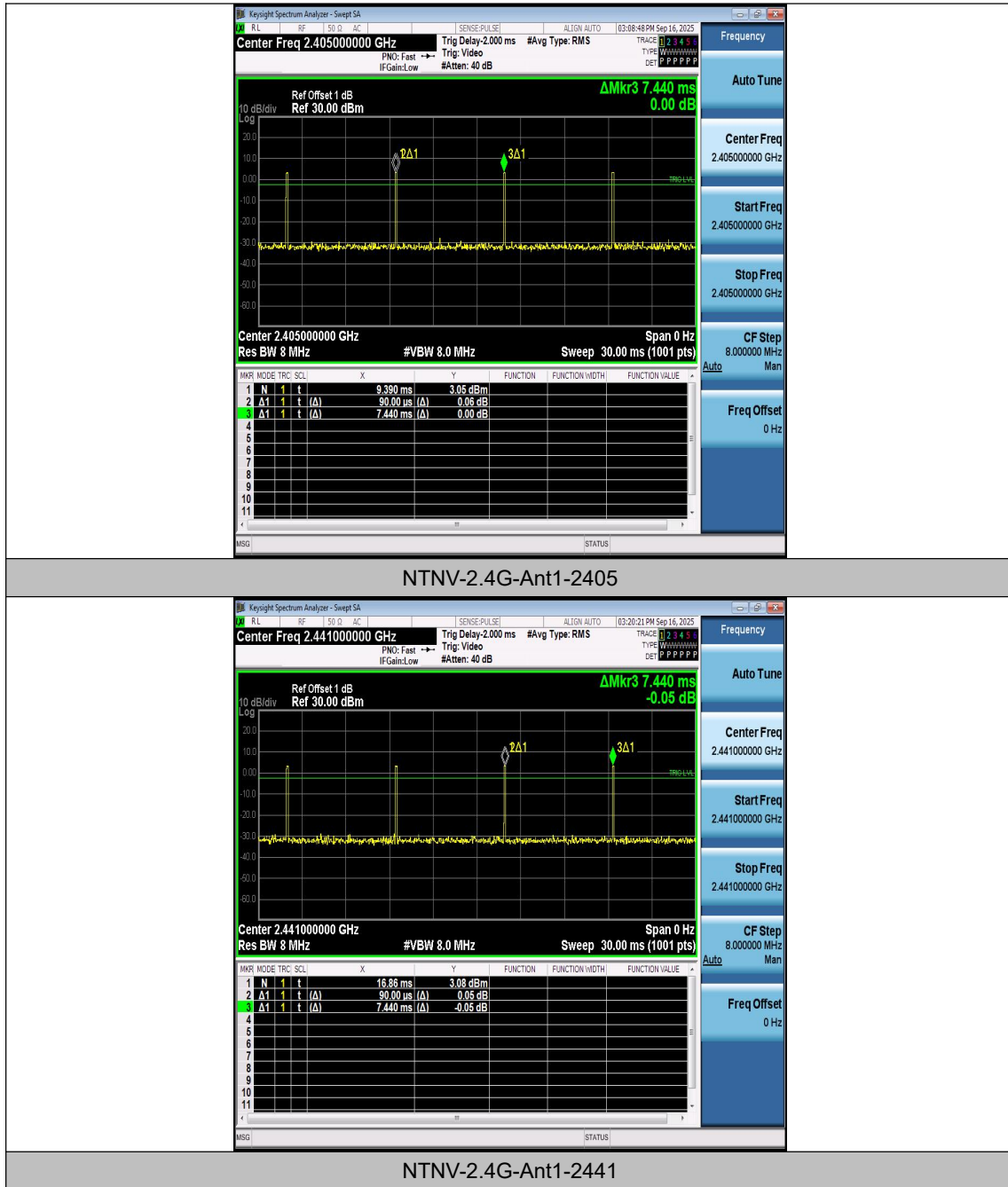
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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2405	0.09	7.44	1.21	19.17
2.4G	Ant1	2441	0.09	7.44	1.21	19.17
2.4G	Ant1	2475	0.12	7.47	1.61	17.93

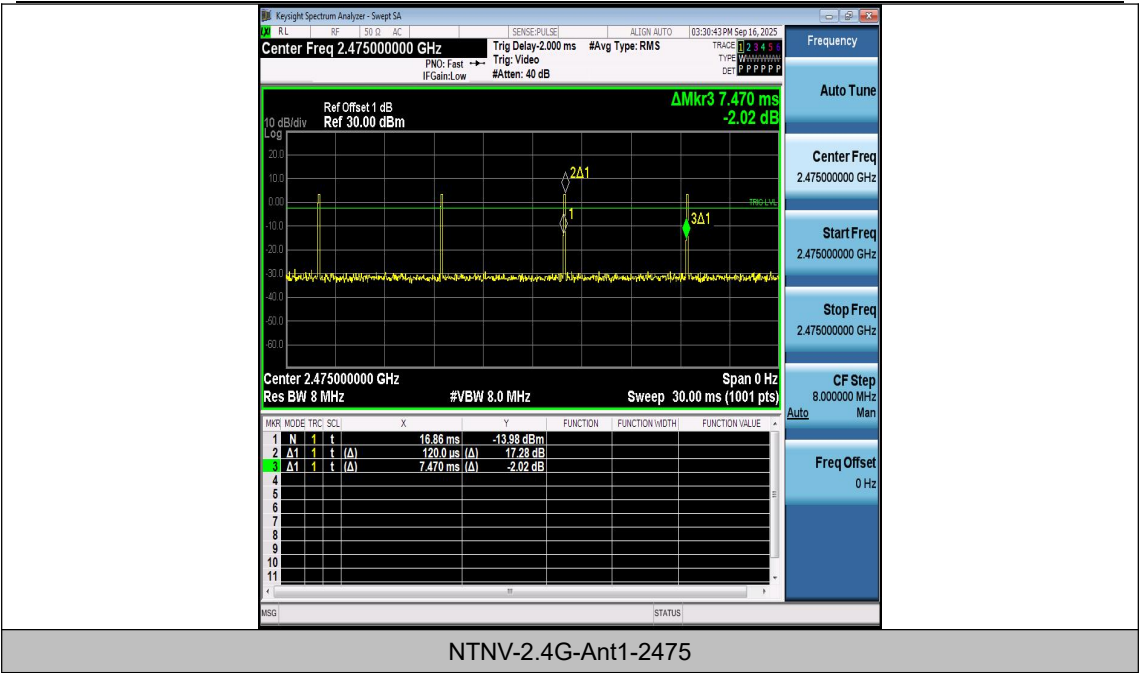
Test Graphs



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NTNV-2.4G-Ant1-2475

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