

Appendix Test Data

Report No.:	1812C50578212502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-11-3	Finish Test Date:	2025-11-19
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.1°C	Relative Humidity:	36%
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	2406	1.089	2405.499	2406.588	---	---
2.4G	Ant1	2440	1.095	2439.502	2440.597	---	---
2.4G	Ant1	2476	1.092	2475.496	2476.588	---	---

Test Graphs



2.4G-Ant1-2406



2.4G-Ant1-2440

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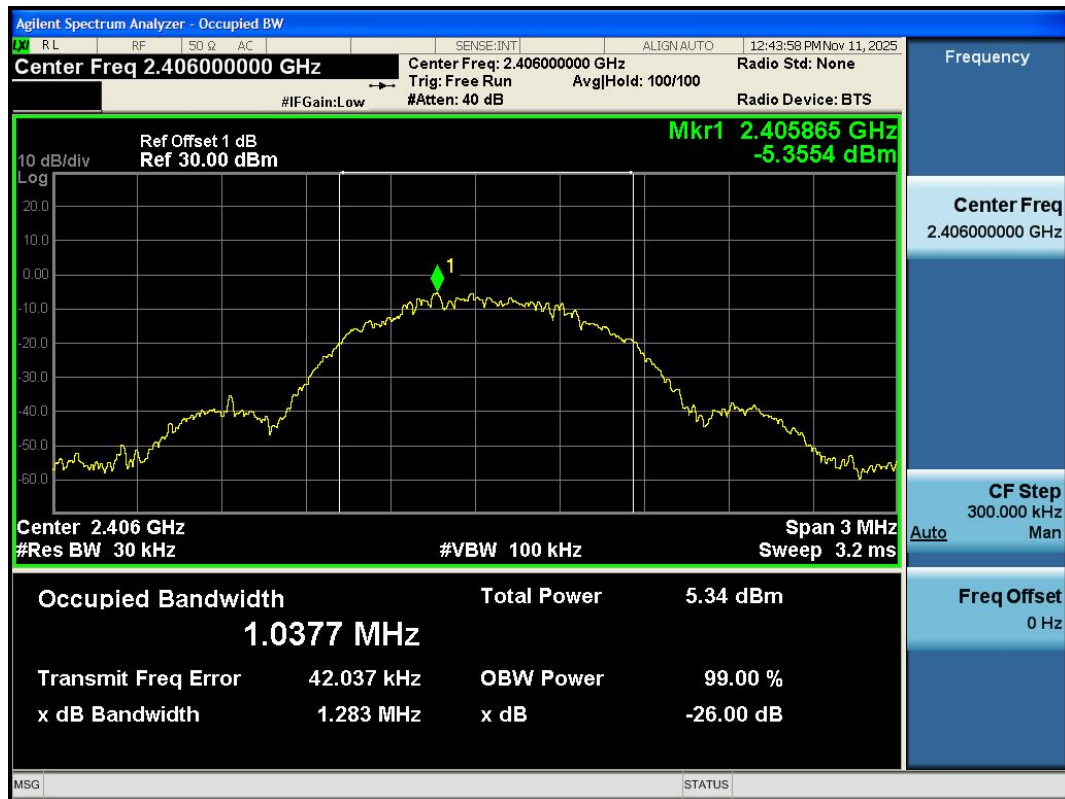
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Appendix B: 99% Occupied Bandwidth**Test Result**

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant1	2406	1.0377	2405.5232	2406.5609	---	---
2.4G	Ant1	2440	1.0279	2439.5289	2440.5568	---	---
2.4G	Ant1	2476	1.0094	2475.5443	2476.5537	---	---

Test Graphs



2.4G-Ant1-2406



2.4G-Ant1-2440

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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	2406	-0.17	≤20.97	PASS
2.4G	Ant1	2440	0.11	≤20.97	PASS
2.4G	Ant1	2476	0.55	≤20.97	PASS

Test Graphs



2.4G-Ant1-2406-PASS



2.4G-Ant1-2440-PASS

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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	2.015	≥0.73	PASS

Note: Only record the worst data in the report.

Test Graphs

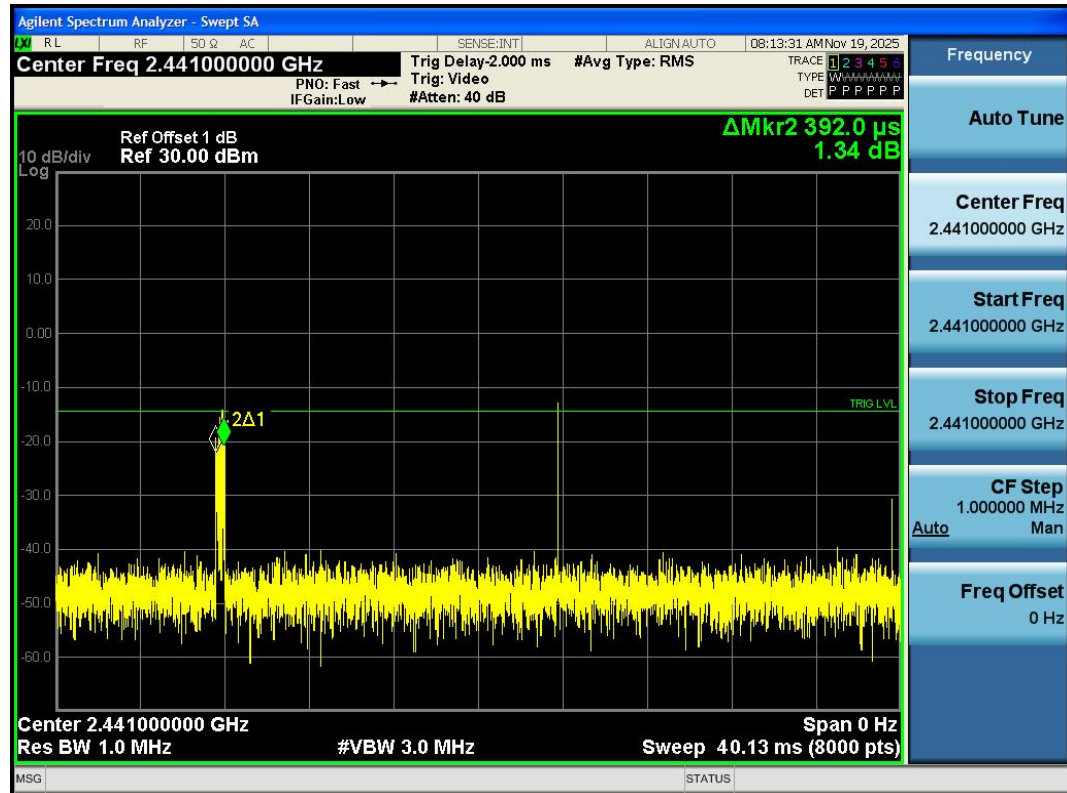


Appendix E: Dwell Time

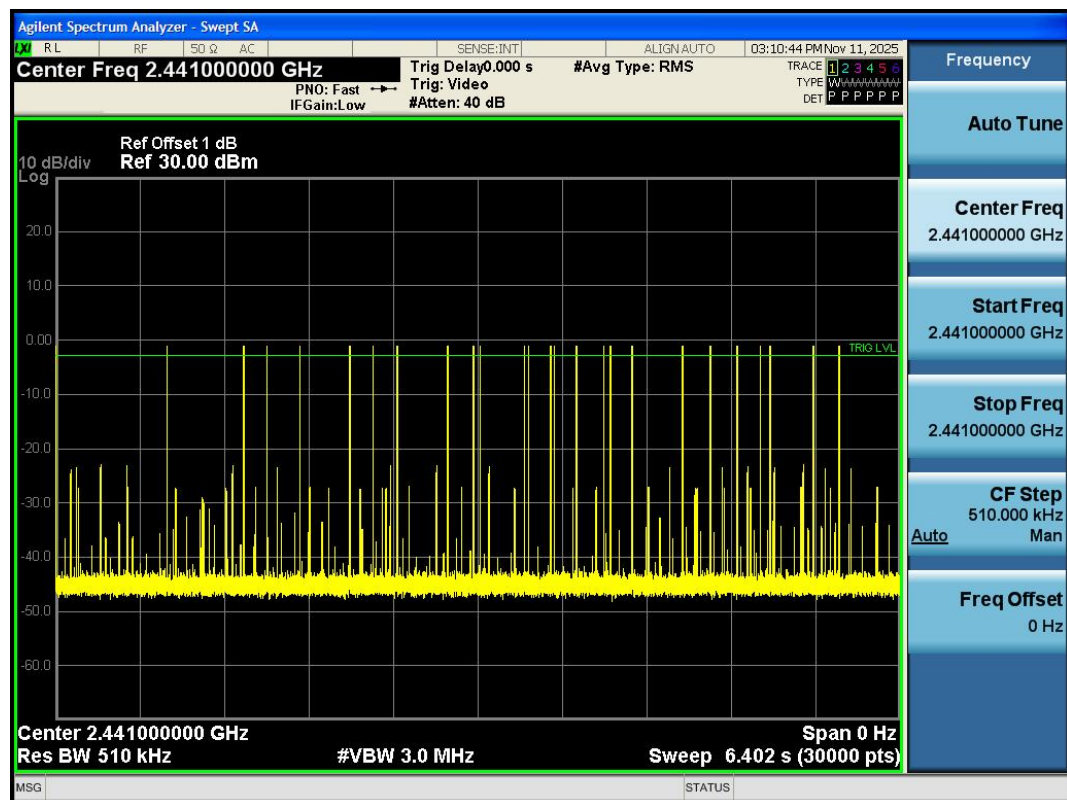
Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
2.4G	Ant1	Hop	0.392	26	0.001	≤0.4	PASS

Test Graphs



2.4G-Ant1-Hop-PASS



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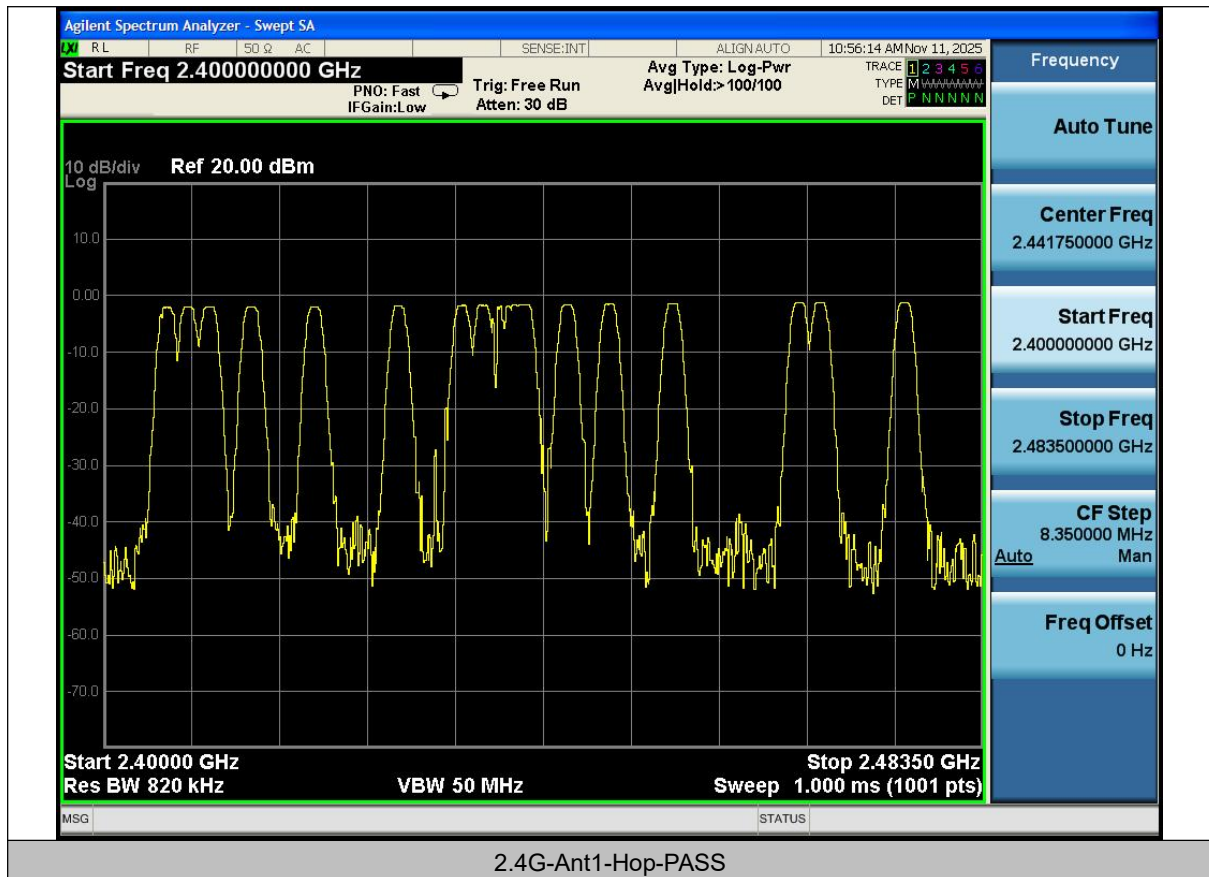
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Appendix F: Number of Hopping Channel

Test Result

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

Test Graphs

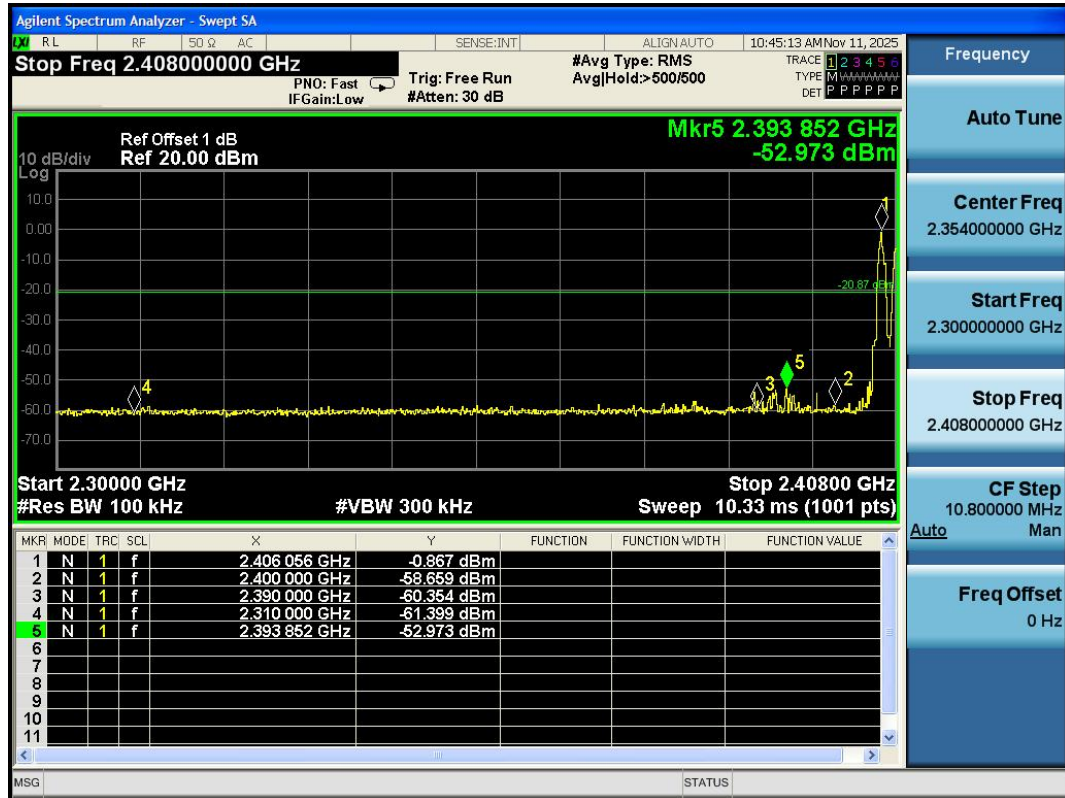


Appendix G: Conducted Band edge

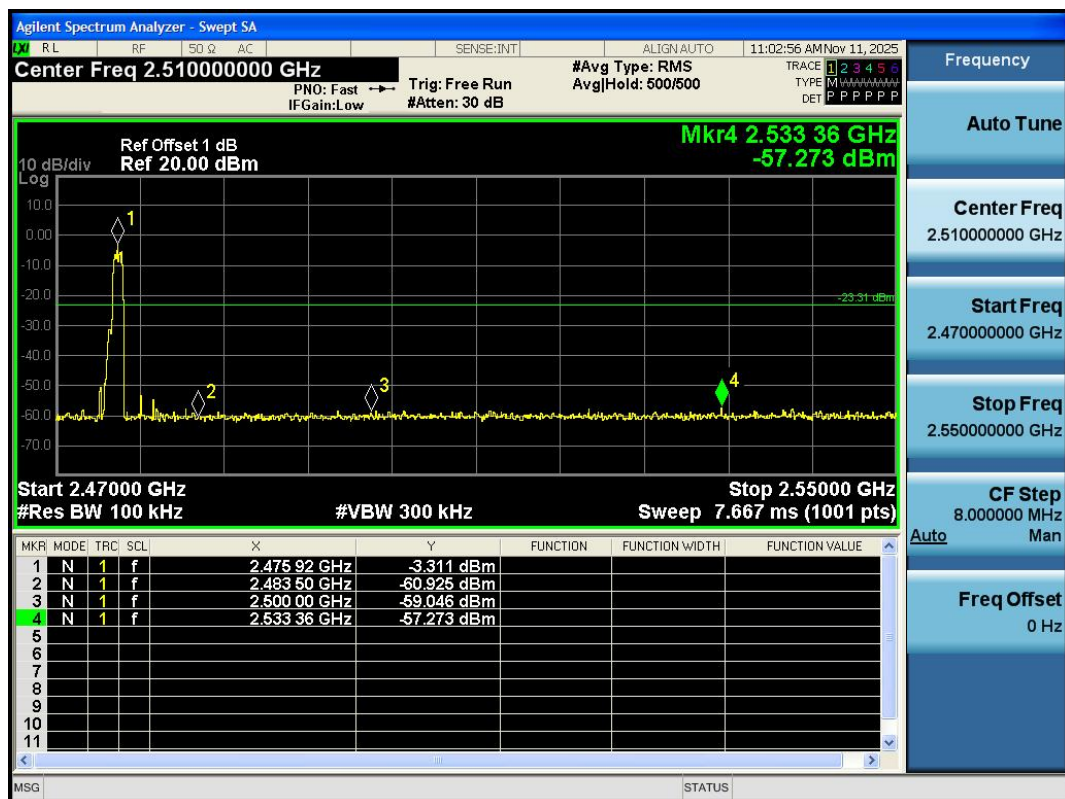
Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	Low	2406	-0.26	-52.1	≤-20.26	PASS
2.4G	Ant1	High	2476	0.52	-54.56	≤-19.48	PASS
2.4G	Ant1	Low	Hop_2406	-0.87	-52.97	≤-20.87	PASS
2.4G	Ant1	High	Hop_2476	-3.31	-57.27	≤-23.31	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.



2.4G-Ant1-Hop_2406-PASS



2.4G-Ant1-Hop_2476-PASS

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Appendix H: Conducted Spurious Emission

Test Result

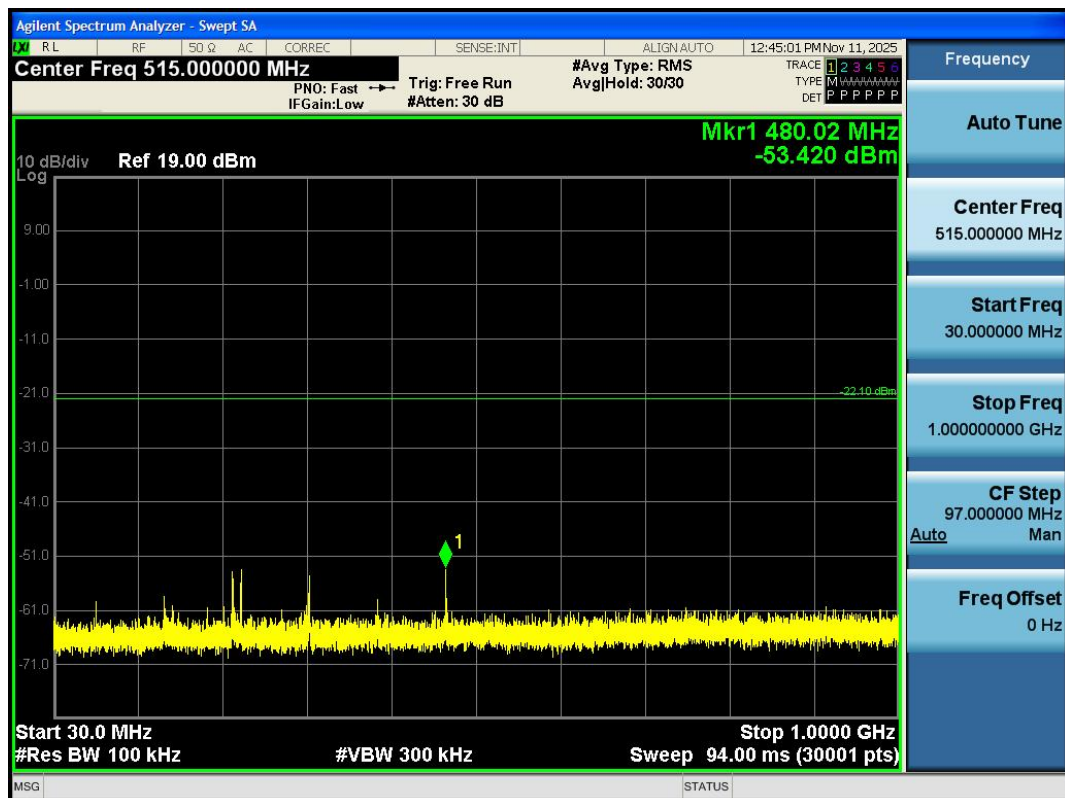
Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant1	2406	0~Reference	-2.10	-2.10	---	PASS
2.4G	Ant1	2406	30~1000	-2.10	-53.42	≤-22.1	PASS
2.4G	Ant1	2406	1000~26500	-2.10	-35.93	≤-22.1	PASS
2.4G	Ant1	2440	0~Reference	-1.36	-1.36	---	PASS
2.4G	Ant1	2440	30~1000	-1.36	-54.15	≤-21.36	PASS
2.4G	Ant1	2440	1000~26500	-1.36	-34.01	≤-21.36	PASS
2.4G	Ant1	2476	0~Reference	0.29	0.29	---	PASS
2.4G	Ant1	2476	30~1000	0.29	-53.36	≤-19.71	PASS
2.4G	Ant1	2476	1000~26500	0.29	-34.77	≤-19.71	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



2.4G-Ant1-2406-0~Reference-PASS

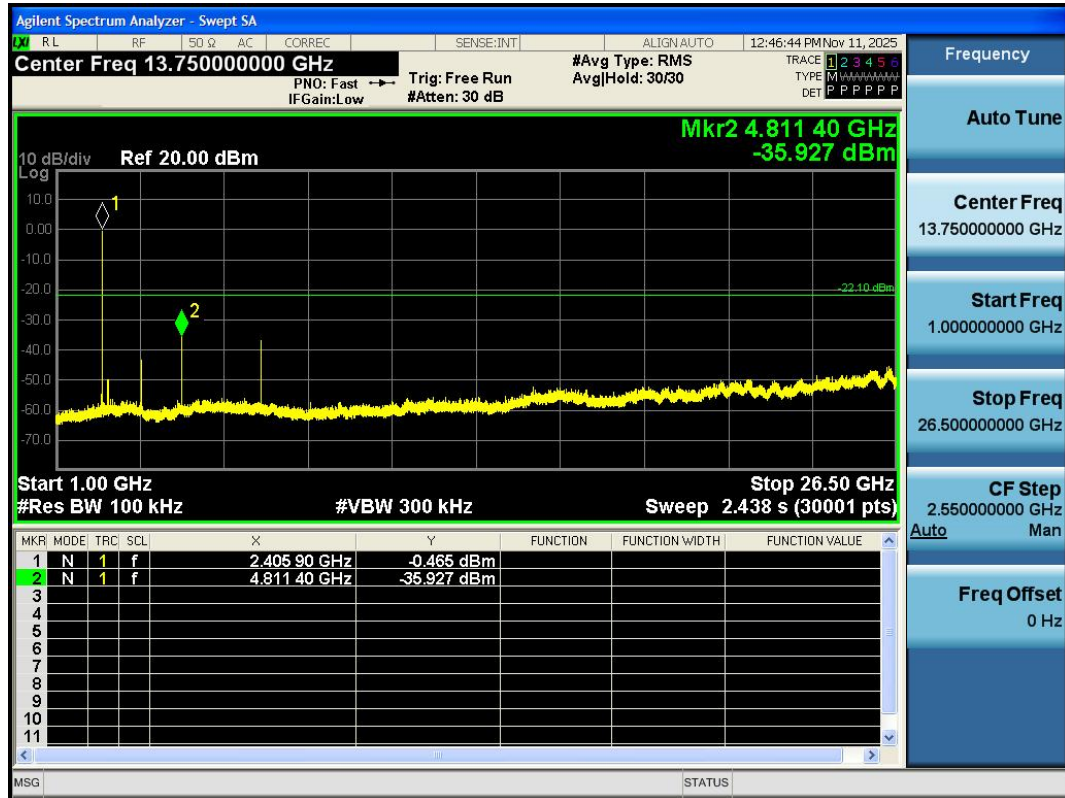


2.4G-Ant1-2406-30~1000-PASS

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2.4G-Ant1-2406-1000~26500-PASS

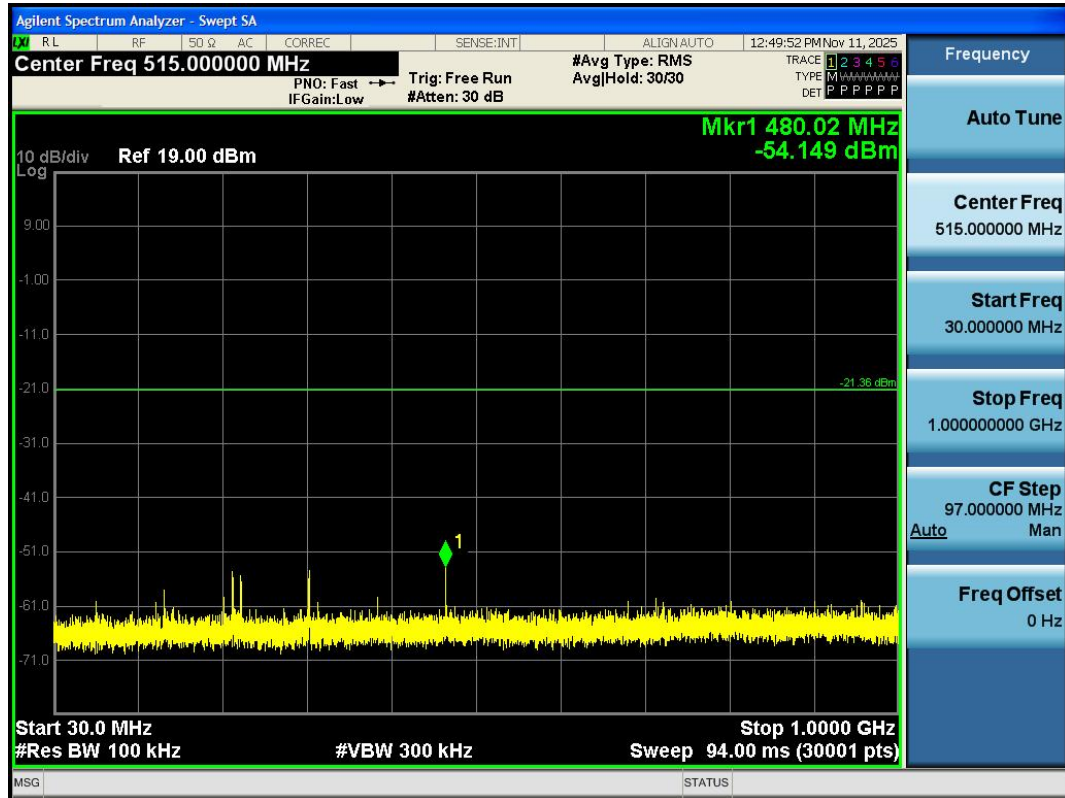


2.4G-Ant1-2440-0~Reference-PASS

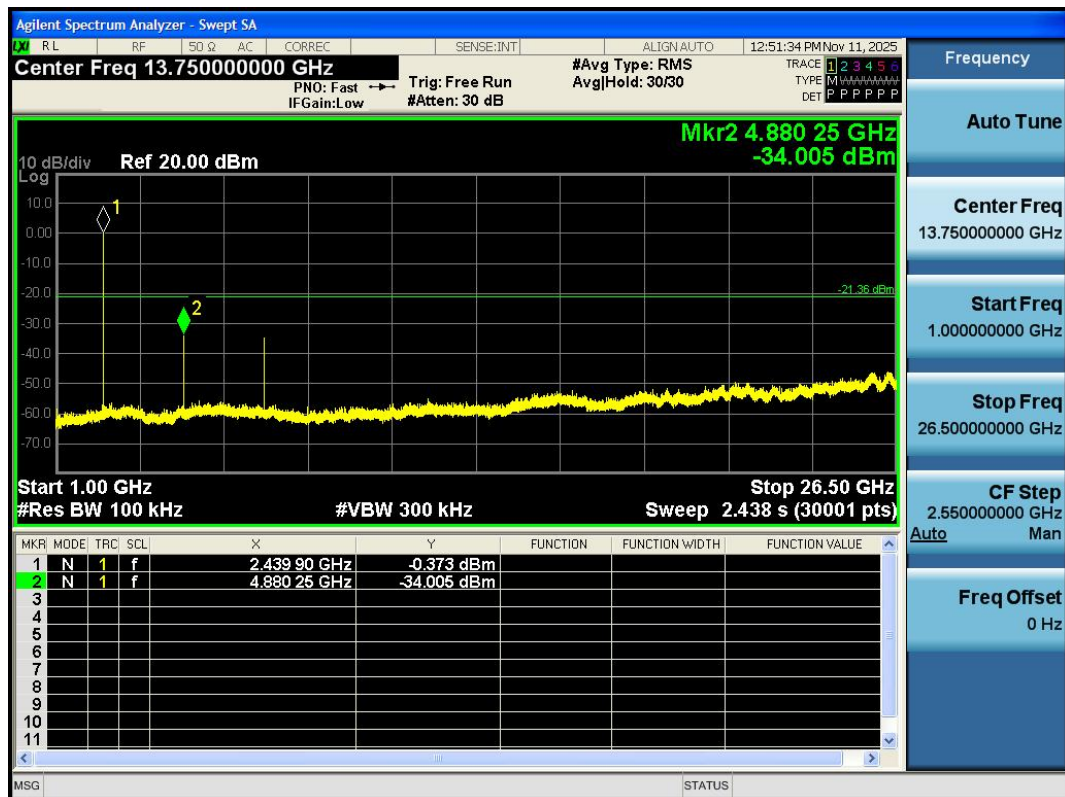
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2.4G-Ant1-2440-30~1000-PASS



2.4G-Ant1-2440-1000~26500-PASS

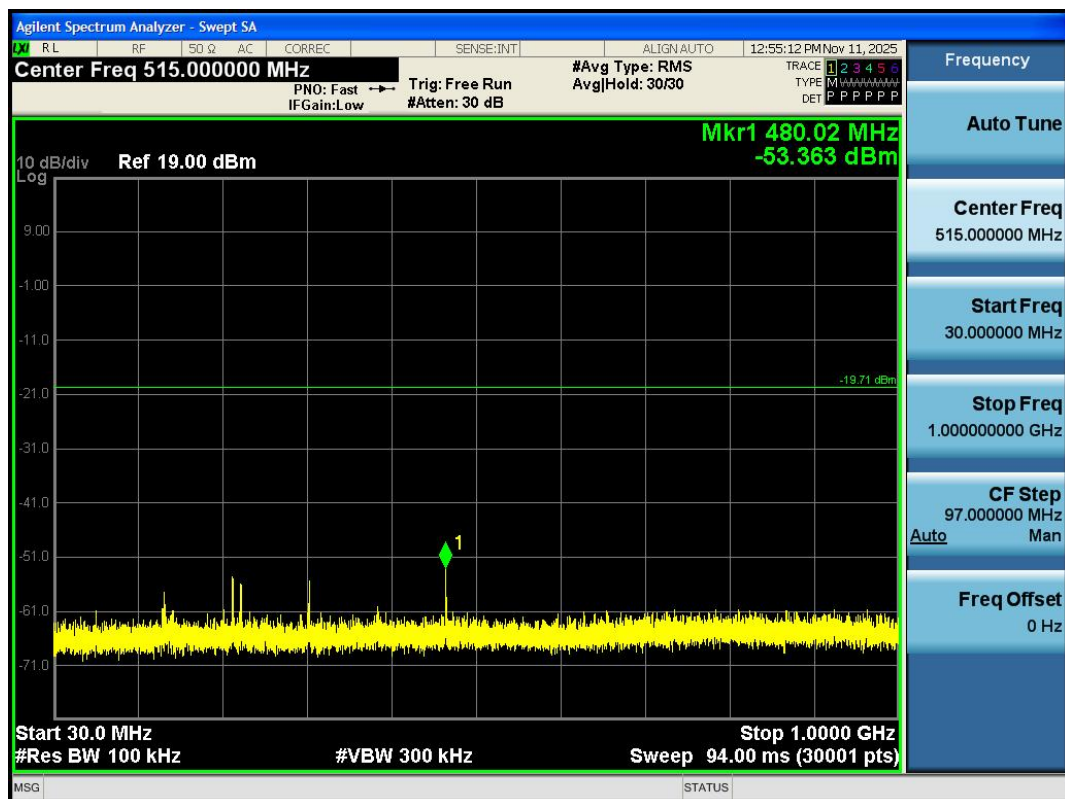
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2.4G-Ant1-2476-0~Reference-PASS

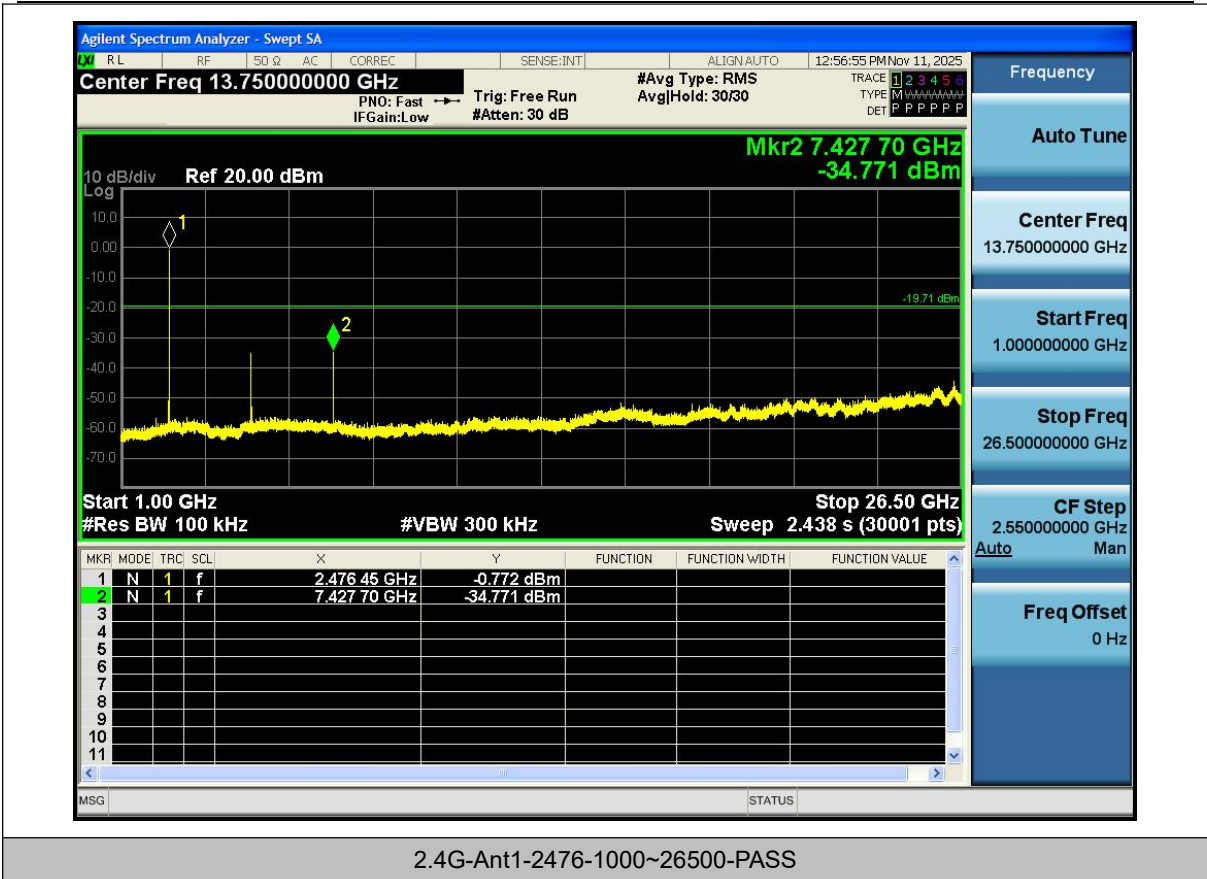


2.4G-Ant1-2476-30~1000-PASS

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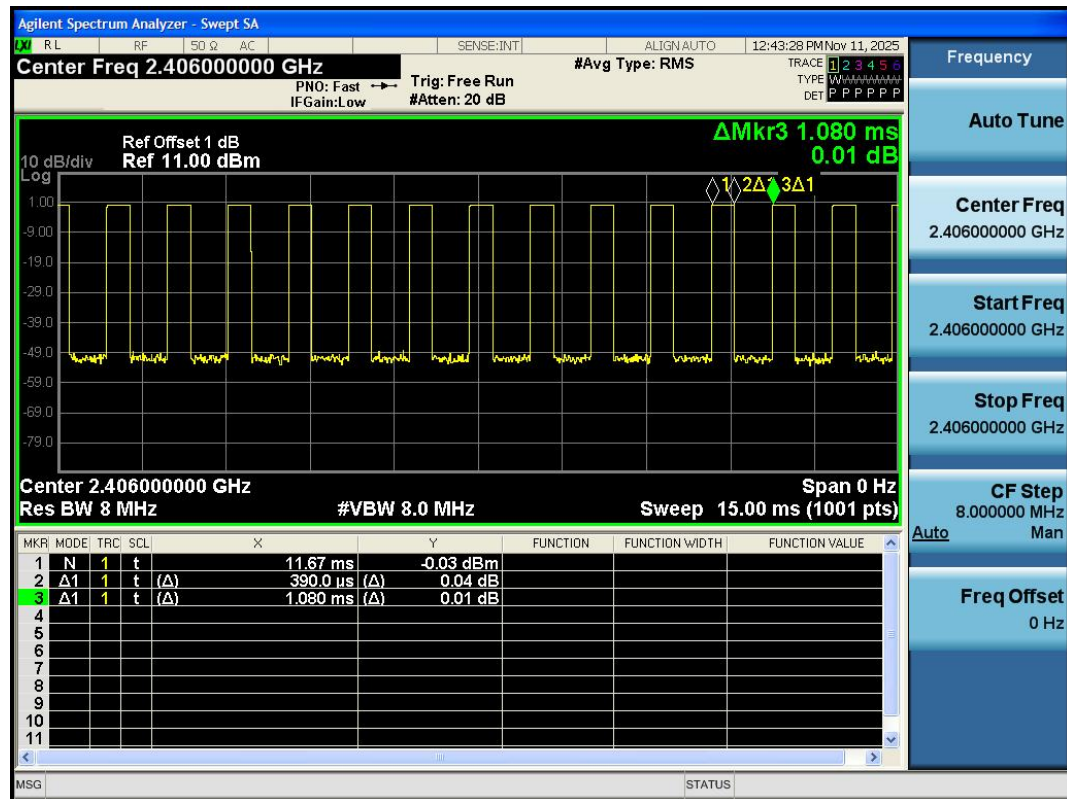
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Appendix I: Duty Cycle

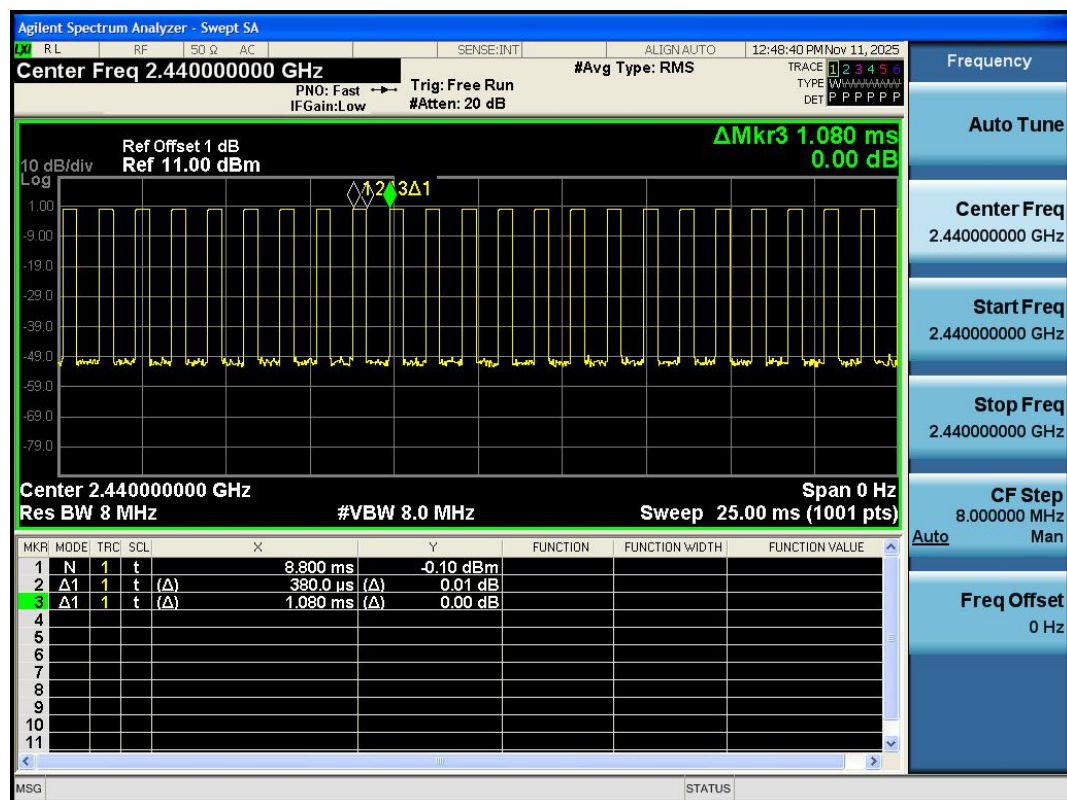
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant1	2406	0.39	1.08	36.11	4.42
2.4G	Ant1	2440	0.38	1.08	35.19	4.54
2.4G	Ant1	2476	0.39	1.08	36.11	4.42

Test Graphs



NTNV-2.4G-Ant1-2406

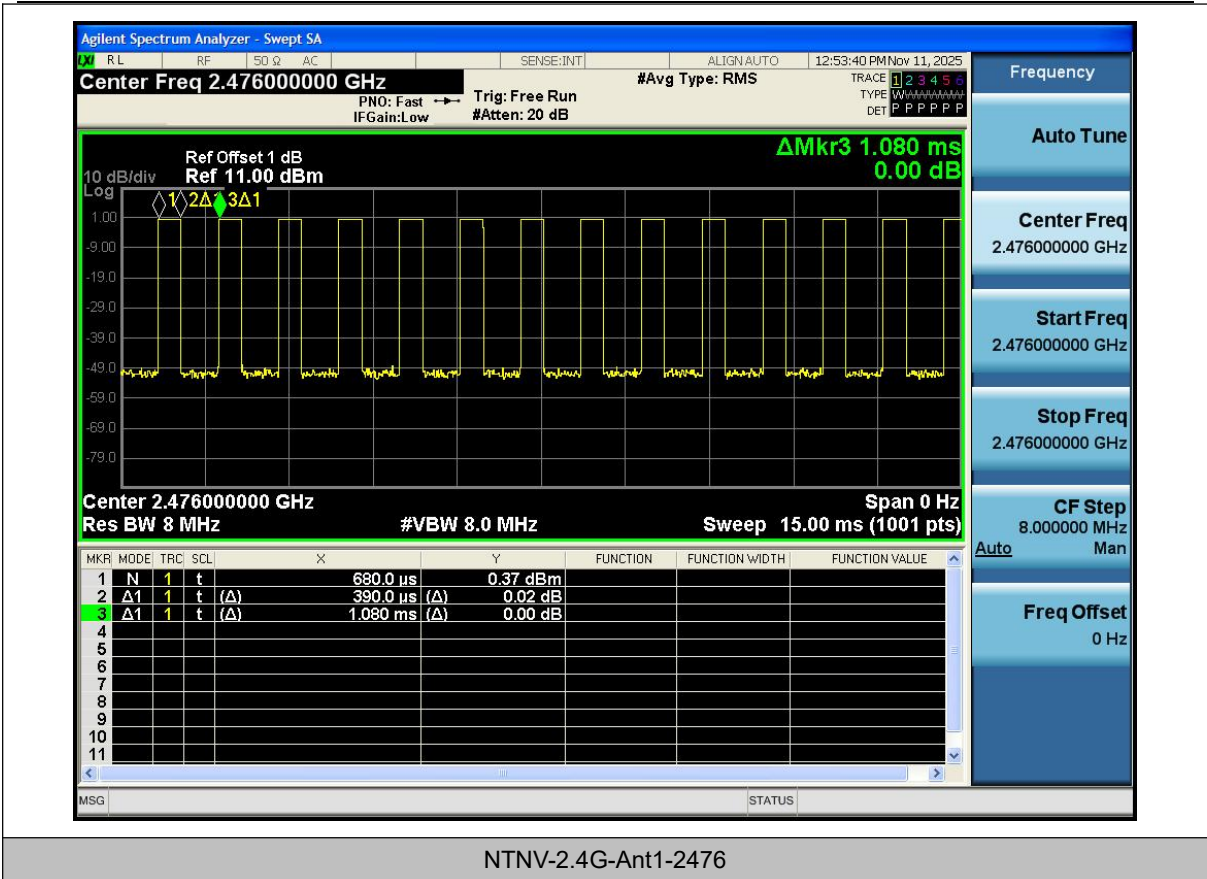


NTNV-2.4G-Ant1-2440

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NTNV-2.4G-Ant1-2476

---End---