

Appendix: 2.4G Wi-Fi for ch14

Contents

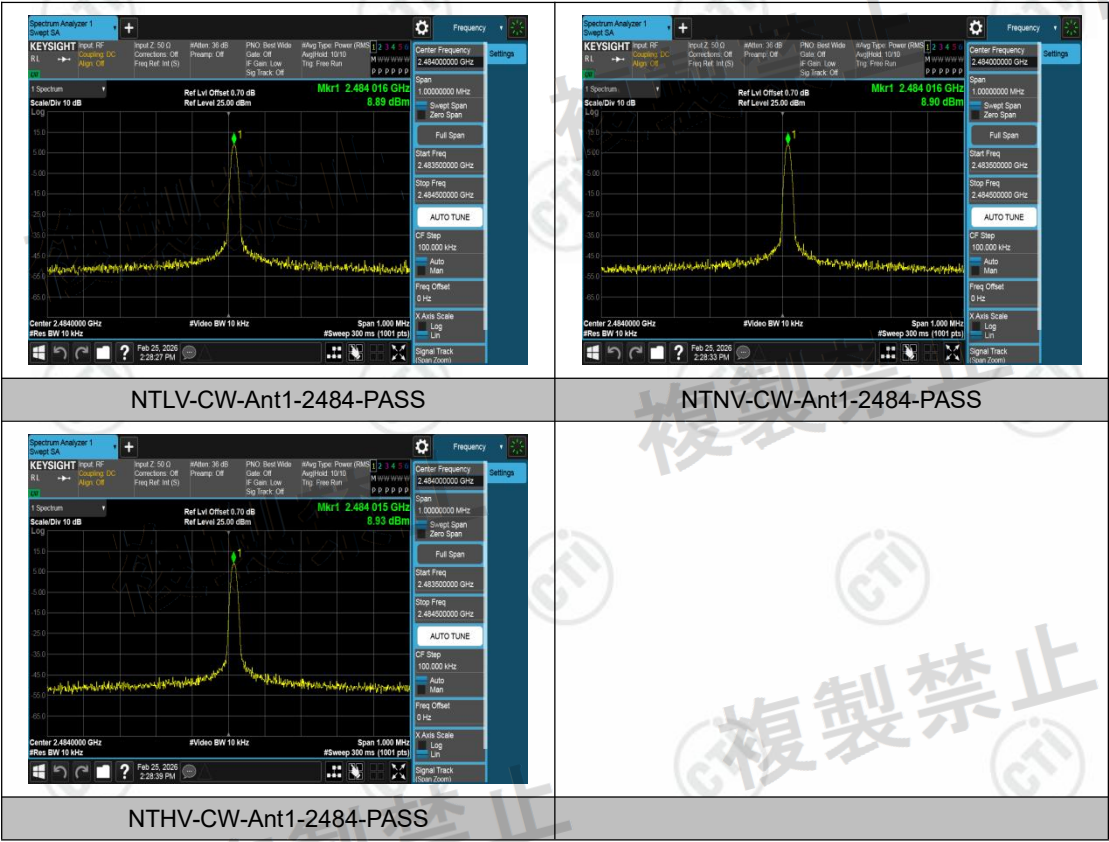
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Appendix A: Frequency Error

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTLV	CW	Ant1	2484	2484.016	6.44122	±50	PASS
NTNV	CW	Ant1	2484	2484.016	6.44122	±50	PASS
NTHV	CW	Ant1	2484	2484.015	6.03865	±50	PASS

Test Graphs



Appendix B: Antenna Power

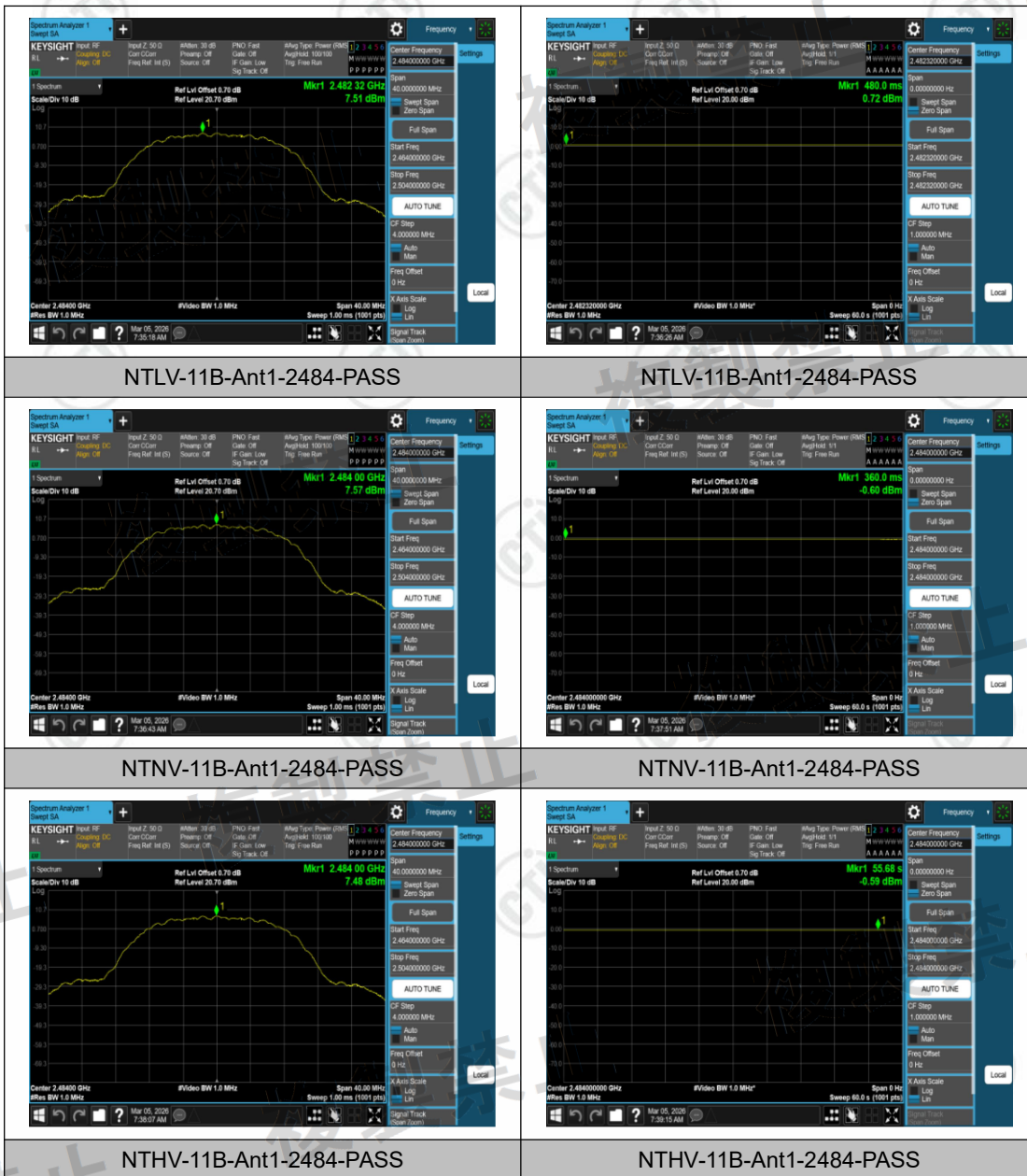
Test Result PSD

Test Mode	Antenna	Test Condition	Frequency [MHz]	Raw (dBm/MHz)	DC Factor [dBm]	Result [dBm/MHz]	Result(mW/MHz)	Limit(mW/MHz)	Verdict
11B	Ant1	NTLV	2484	0.72	0.41	1.13	1.2972	≤10	PASS
11B	Ant1	NTNV	2484	-0.60	0.41	-0.19	0.9572	≤10	PASS
11B	Ant1	NTHV	2484	-0.59	0.41	-0.18	0.9594	≤10	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW/MHz)	Rated Power (mW/MHz)	Result (%)	Limit (%)	Verdict
NTLV	11B	Ant1	2484	1.2972	1.3	-0.215	-80 to +20	PASS
NTNV	11B	Ant1	2484	0.9572	1.3	-26.369	-80 to +20	PASS
NTHV	11B	Ant1	2484	0.9594	1.3	-26.200	-80 to +20	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	EIRP (dBm/MHz)	ERP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTLV	11B	Ant1	2484	1.13	3.29	1.14	≤12.14	PASS
NTNV	11B	Ant1	2484	-0.19	1.97	-0.18	≤12.14	PASS
NTHV	11B	Ant1	2484	-0.18	1.98	-0.17	≤12.14	PASS

Test Graphs

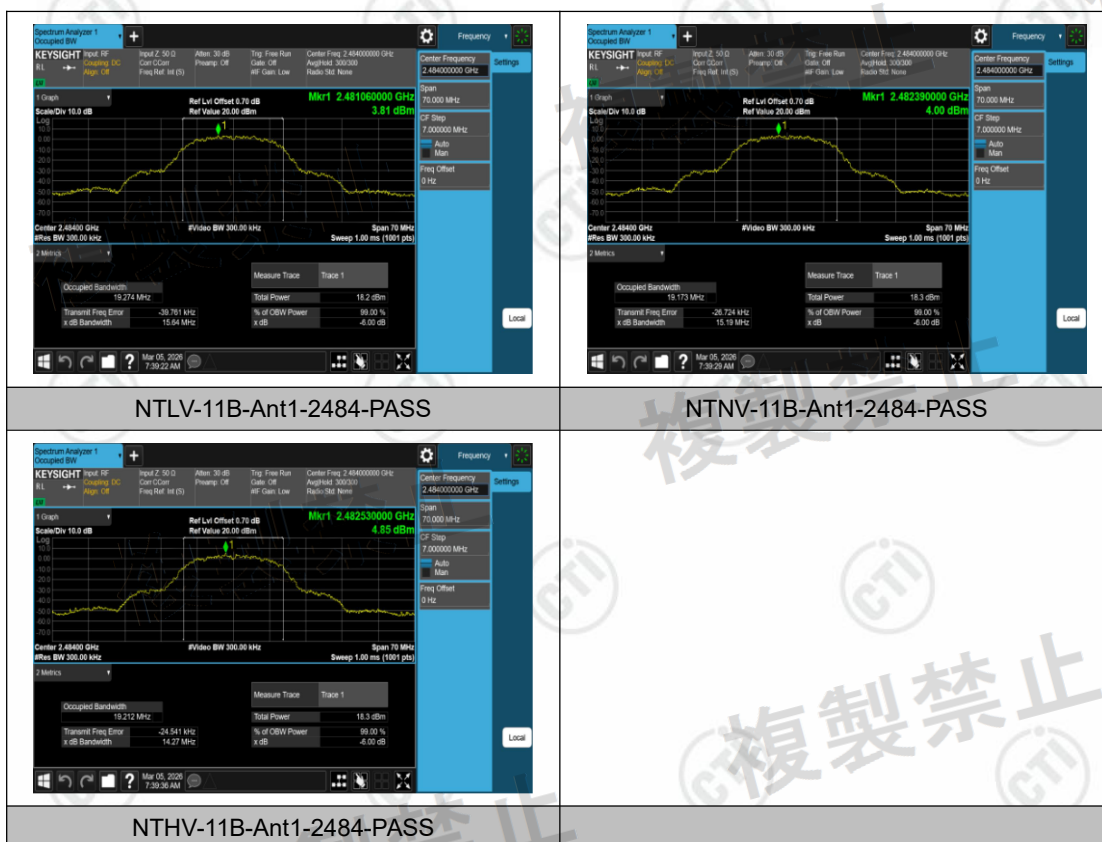


Appendix C: Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTLV	11B	Ant1	2484	19.274	≤26	PASS
NTNV	11B	Ant1	2484	19.173	≤26	PASS
NTHV	11B	Ant1	2484	19.212	≤26	PASS

Test Graphs

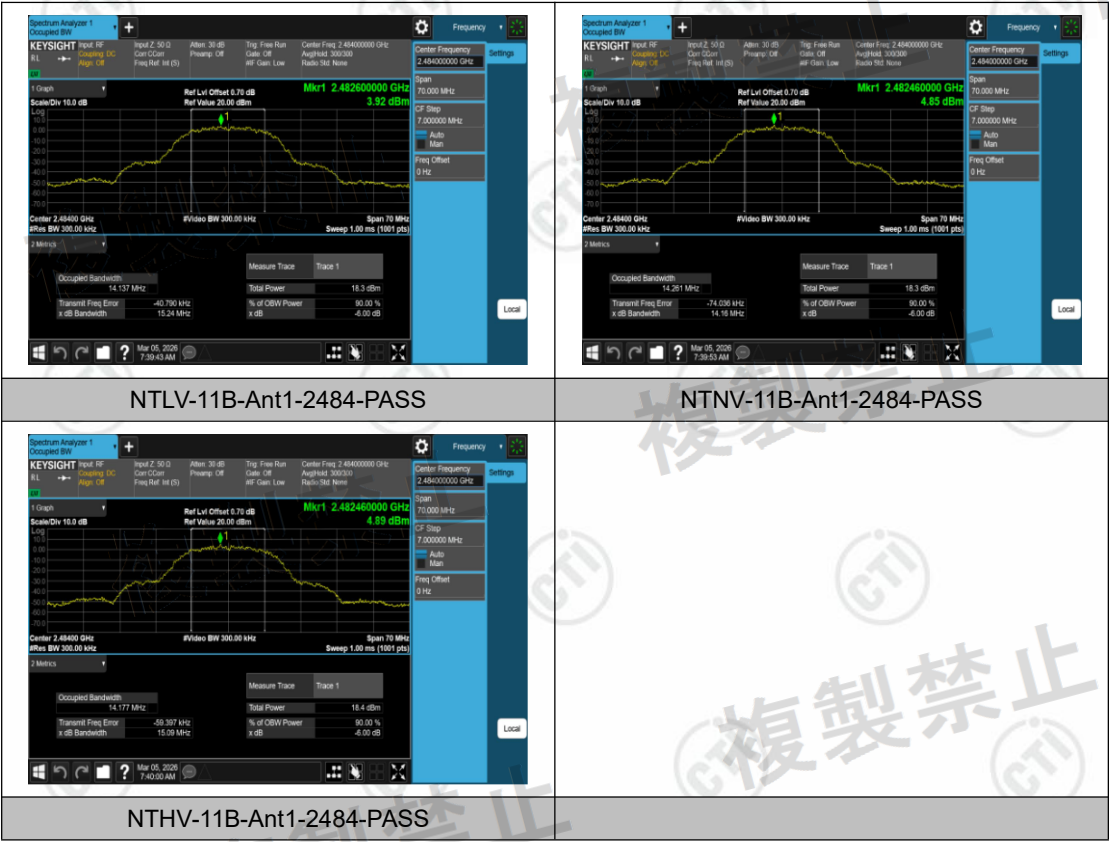


Appendix D: Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequenc y[MHz]	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTLV	11B	Ant1	2484	14.137	≥0.5	10.281	>10	PASS
NTNV	11B	Ant1	2484	14.261	≥0.5	10.372	>10	PASS
NTHV	11B	Ant1	2484	14.177	≥0.5	10.311	>10	PASS

Test Graphs

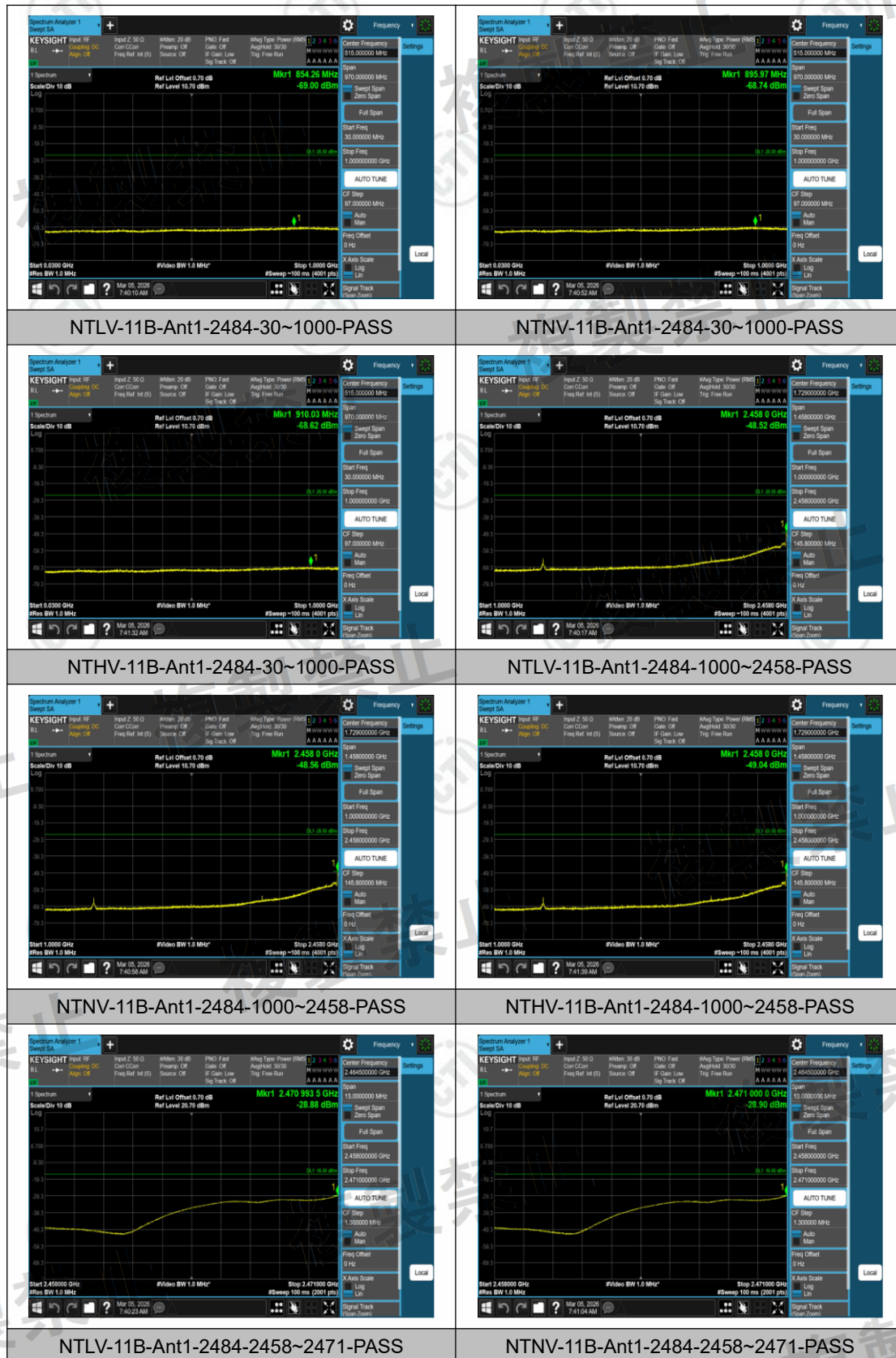


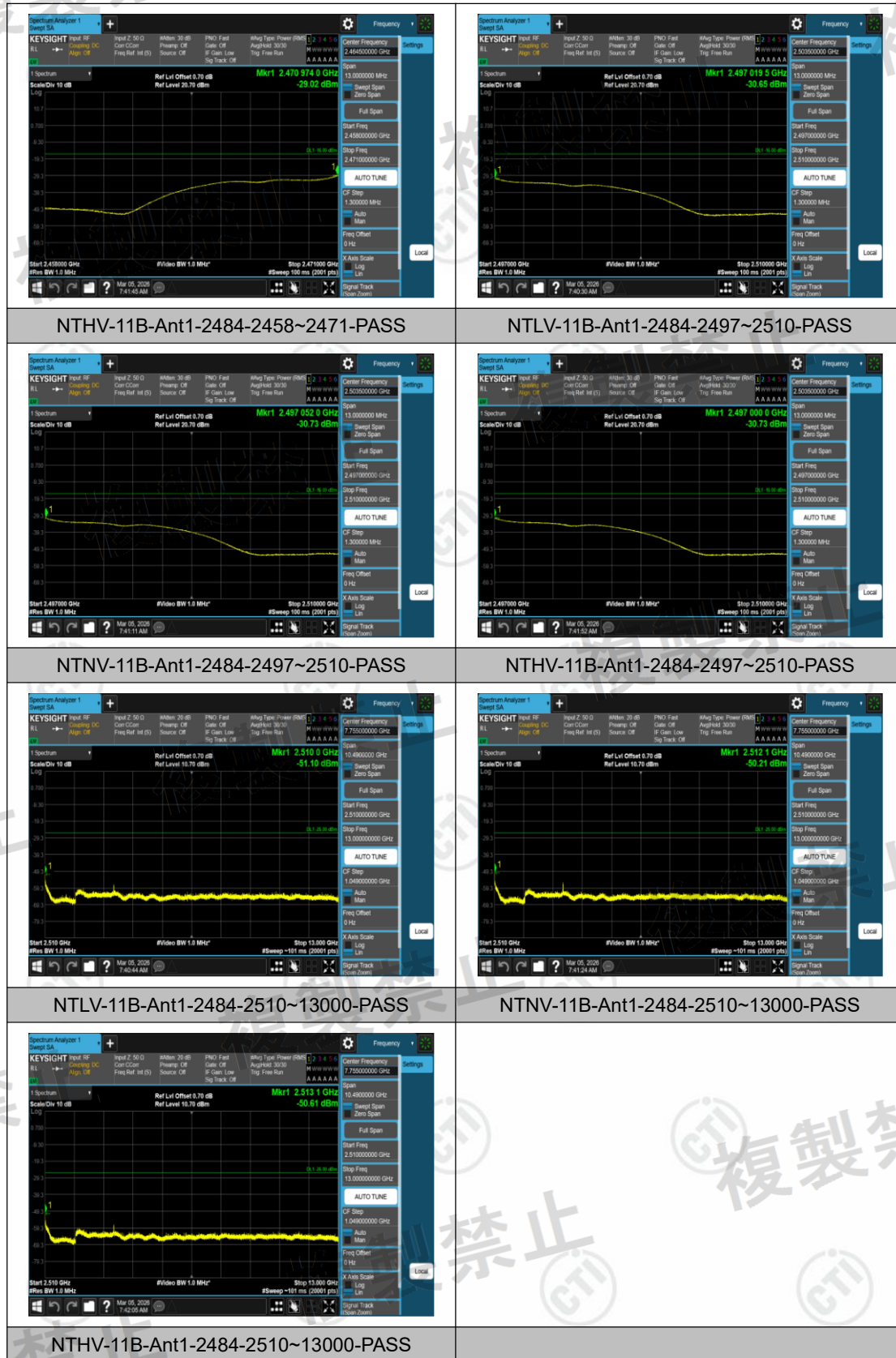
Appendix E: Unwanted Emission Strength

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [MHz]	Result [dBm/MHz]	Result [μ W/MHz]	Limit [μ W/MHz]	Verdict
NTLV	11B	Ant1	2484	30~1000	854.26	-69.00	0.00013	≤ 2.5	PASS
NTNV	11B	Ant1	2484	30~1000	895.97	-68.74	0.00013	≤ 2.5	PASS
NTHV	11B	Ant1	2484	30~1000	910.03	-68.63	0.00014	≤ 2.5	PASS
NTLV	11B	Ant1	2484	1000~2458	2458.00	-48.52	0.01406	≤ 2.5	PASS
NTNV	11B	Ant1	2484	1000~2458	2458.00	-48.56	0.01393	≤ 2.5	PASS
NTHV	11B	Ant1	2484	1000~2458	2458.00	-49.04	0.01247	≤ 2.5	PASS
NTLV	11B	Ant1	2484	2458~2471	2470.99	-28.88	1.29420	≤ 25	PASS
NTNV	11B	Ant1	2484	2458~2471	2471.00	-28.90	1.28825	≤ 25	PASS
NTHV	11B	Ant1	2484	2458~2471	2470.97	-29.02	1.25314	≤ 25	PASS
NTLV	11B	Ant1	2484	2497~2510	2497.02	-30.65	0.86099	≤ 25	PASS
NTNV	11B	Ant1	2484	2497~2510	2497.05	-30.73	0.84528	≤ 25	PASS
NTHV	11B	Ant1	2484	2497~2510	2497.00	-30.73	0.84528	≤ 25	PASS
NTLV	11B	Ant1	2484	2510~13000	2510.00	-51.10	0.00776	≤ 2.5	PASS
NTNV	11B	Ant1	2484	2510~13000	2512.10	-50.21	0.00953	≤ 2.5	PASS
NTHV	11B	Ant1	2484	2510~13000	2513.15	-50.61	0.00869	≤ 2.5	PASS

Test Graphs



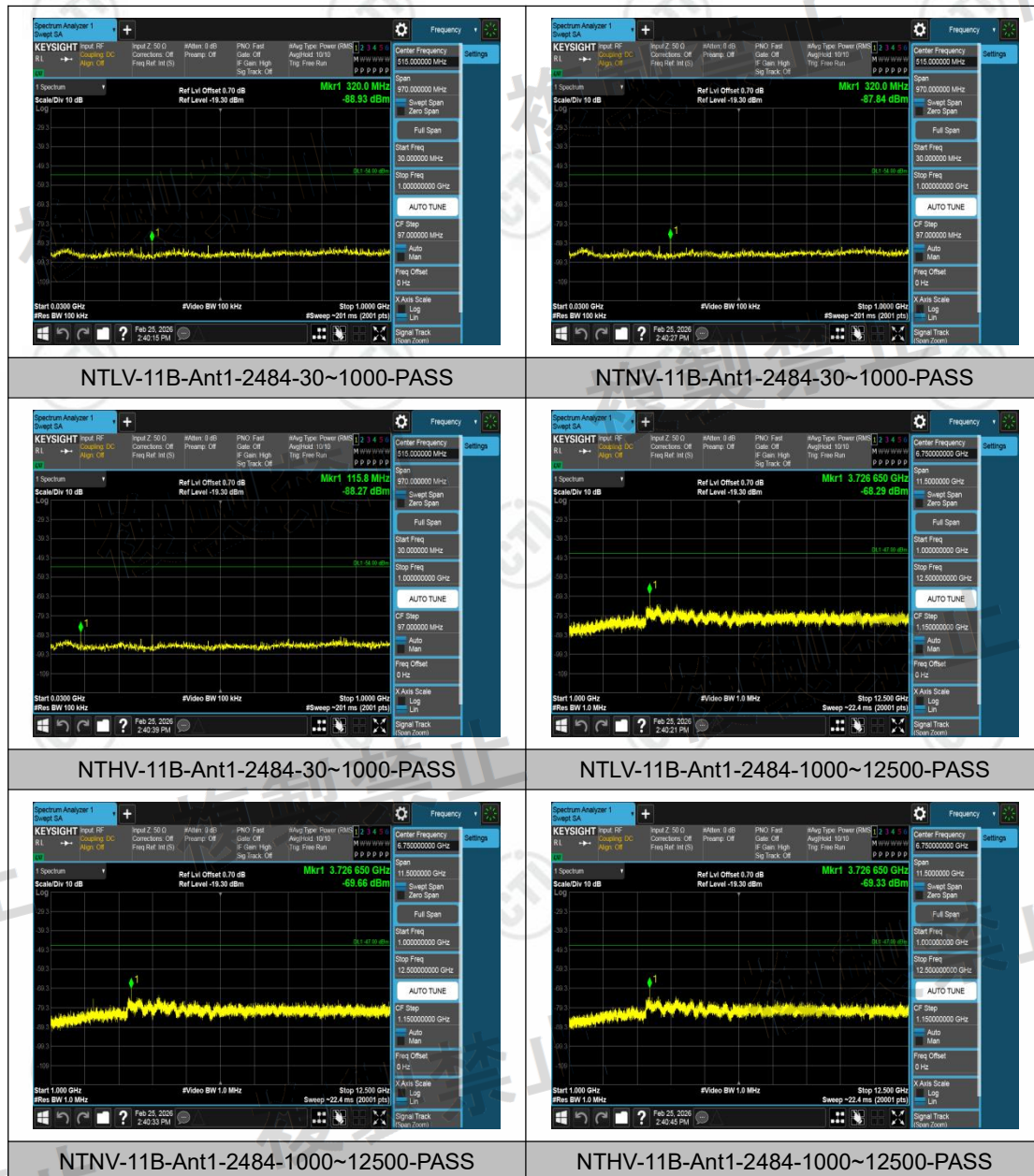


Appendix F: Secondary Radiated Emission Strength

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [MHz]	Result [dBm]	Result [nW]	Limit [nW]	Verdict
NTLV	11B	Ant1	2484	30~1000	320.03	-88.93	0.00128	≤4	PASS
NTNV	11B	Ant1	2484	30~1000	320.03	-87.84	0.00164	≤4	PASS
NTHV	11B	Ant1	2484	30~1000	115.85	-88.27	0.00149	≤4	PASS
NTLV	11B	Ant1	2484	1000~12500	3726.65	-68.29	0.14825	≤20	PASS
NTNV	11B	Ant1	2484	1000~12500	3726.65	-69.66	0.10814	≤20	PASS
NTHV	11B	Ant1	2484	1000~12500	3726.65	-69.33	0.11668	≤20	PASS

Test Graphs



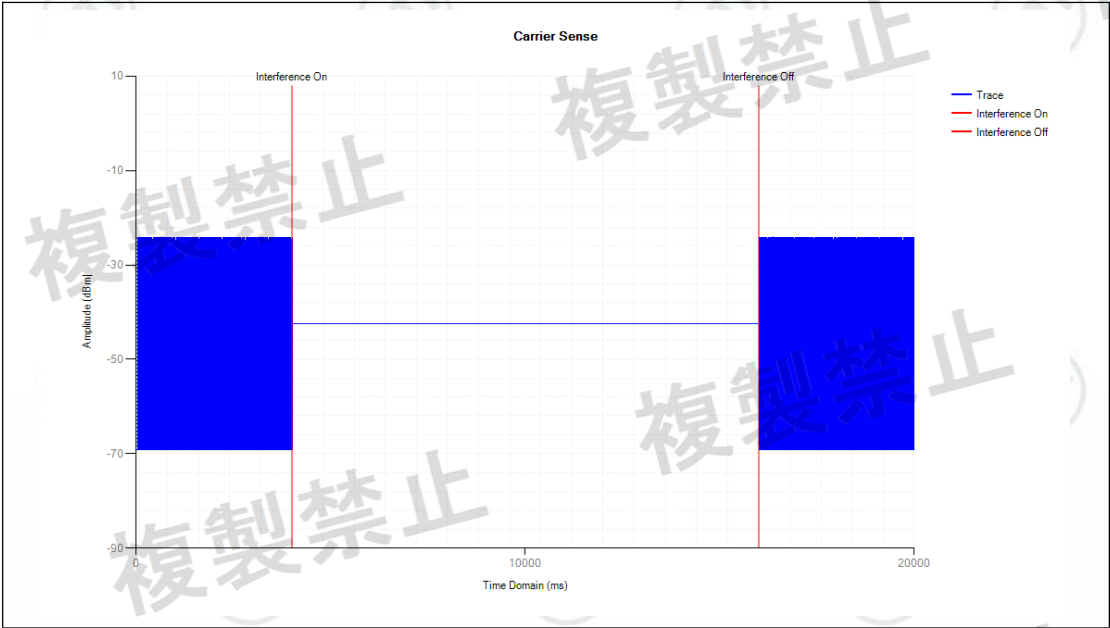
Appendix G: Carrier Sense Function

Test Result

TestCondition	TestMode	Antenna	Frequen cy[MHz]	Pcs[dBm]	Result	Verdict
NTNV	11B	Ant1	2484	-42.953	See Graph below	PASS

Note: $Pcs(dBm) = 22.79 + Gr - 20\log(F)$.

Test Graphs



*** End of Report ***