

Appendix B: Test Results of 2.4GHz

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Appendix B.1: Test Results of Frequency Tolerance

Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	2.4G	Ant1	2406	0.12469	±50	PASS
			2442	0.00000	±50	PASS
			2474	0.00000	±50	PASS
NTLV	2.4G	Ant1	2406	0.12469	±50	PASS
			2442	0.00000	±50	PASS
			2474	0.00000	±50	PASS
NTHV	2.4G	Ant1	2406	0.12469	±50	PASS
			2442	0.00000	±50	PASS
			2474	0.00000	±50	PASS



Test Graphs







Appendix B.2: Test Results of Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Freq (MHz)	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	2.4G	Ant1	2406	6.58	4.5499	≤10	PASS
			2442	6.31	4.2756	≤10	PASS
			2474	6.00	3.9811	≤10	PASS
NTLV	2.4G	Ant1	2406	6.58	4.5499	≤10	PASS
			2442	6.30	4.2658	≤10	PASS
			2474	6.00	3.9811	≤10	PASS
NTHV	2.4G	Ant1	2406	6.58	4.5499	≤10	PASS
			2442	6.30	4.2658	≤10	PASS
			2474	6.00	3.9811	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq(MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	2.4G	Ant1	2406	4.5499	10	-54.50	-80 to +20	PASS
			2442	4.2756	10	-57.24	-80 to +20	PASS
			2474	3.9811	10	-60.19	-80 to +20	PASS
NTLV	2.4G	Ant1	2406	4.5499	10	-54.50	-80 to +20	PASS
			2442	4.2658	10	-57.34	-80 to +20	PASS
			2474	3.9811	10	-60.19	-80 to +20	PASS
NTHV	2.4G	Ant1	2406	4.5499	10	-54.50	-80 to +20	PASS
			2442	4.2658	10	-57.34	-80 to +20	PASS
			2474	3.9811	10	-60.19	-80 to +20	PASS

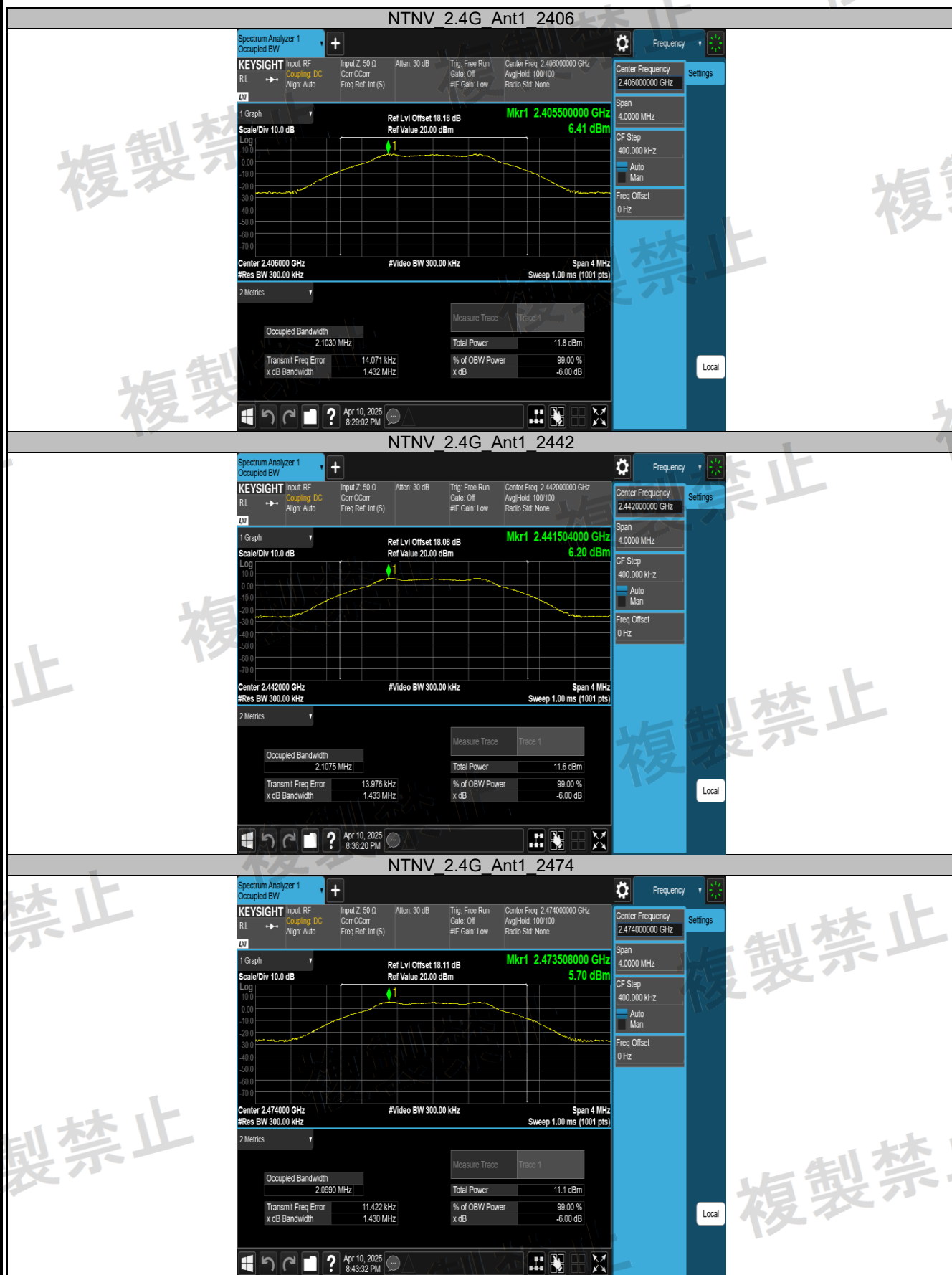
EIRP							
TestCondition	TestMode	Antenna	Freq (MHz)	Power (dBm)	EIRP(dBm)	Limit(dBm)	Verdict
NTNV	2.4G	Ant1	2406	6.58	10.58	≤12.14	PASS
			2442	6.31	10.31	≤12.14	PASS
			2474	6.00	10.00	≤12.14	PASS
NTLV	2.4G	Ant1	2406	6.58	10.58	≤12.14	PASS
			2442	6.30	10.30	≤12.14	PASS
			2474	6.00	10.00	≤12.14	PASS
NTHV	2.4G	Ant1	2406	6.58	10.58	≤12.14	PASS
			2442	6.30	10.30	≤12.14	PASS
			2474	6.00	10.00	≤12.14	PASS

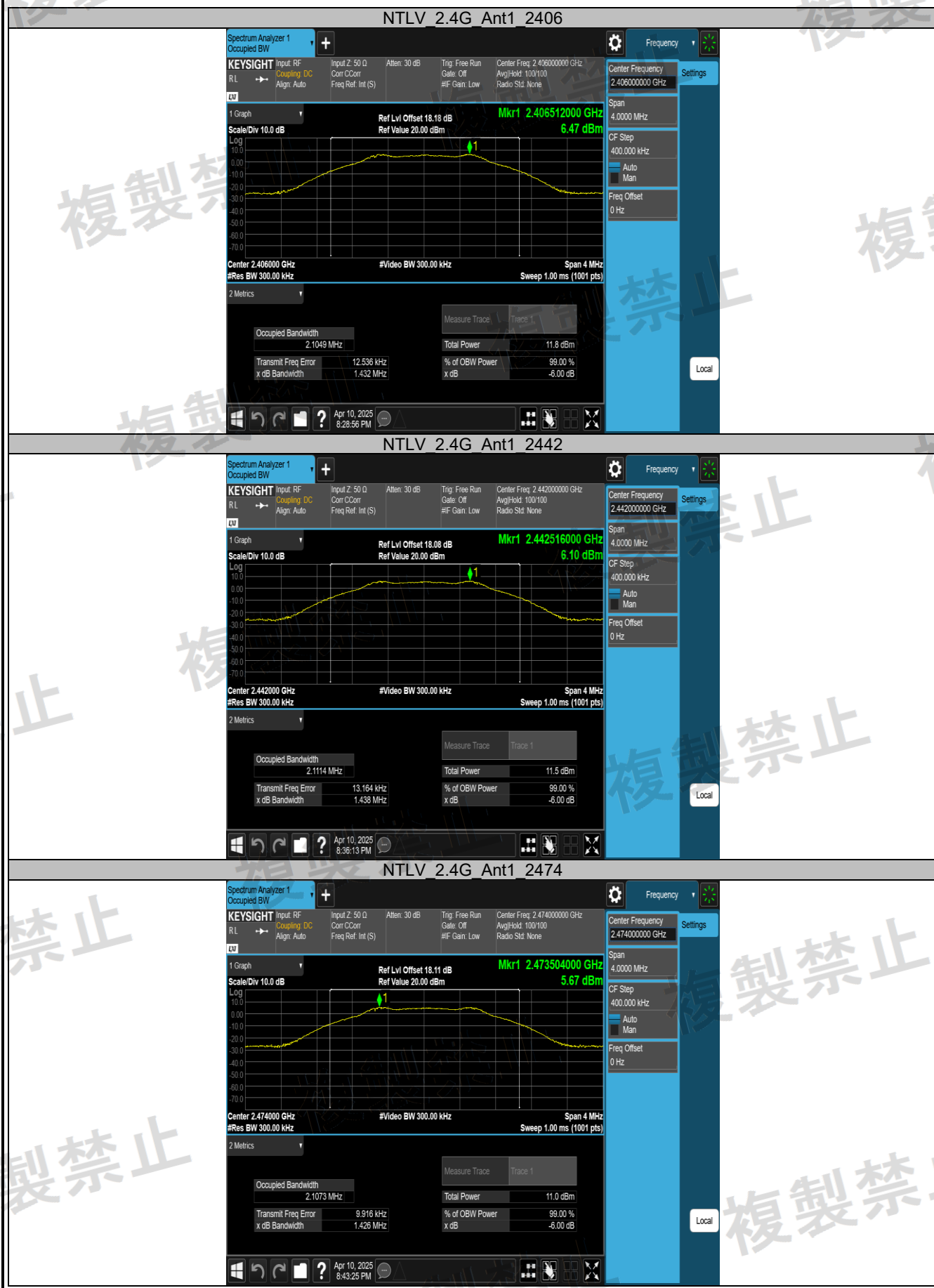
Appendix B.3: Test Results of Occupied Channel Bandwidth (99%)

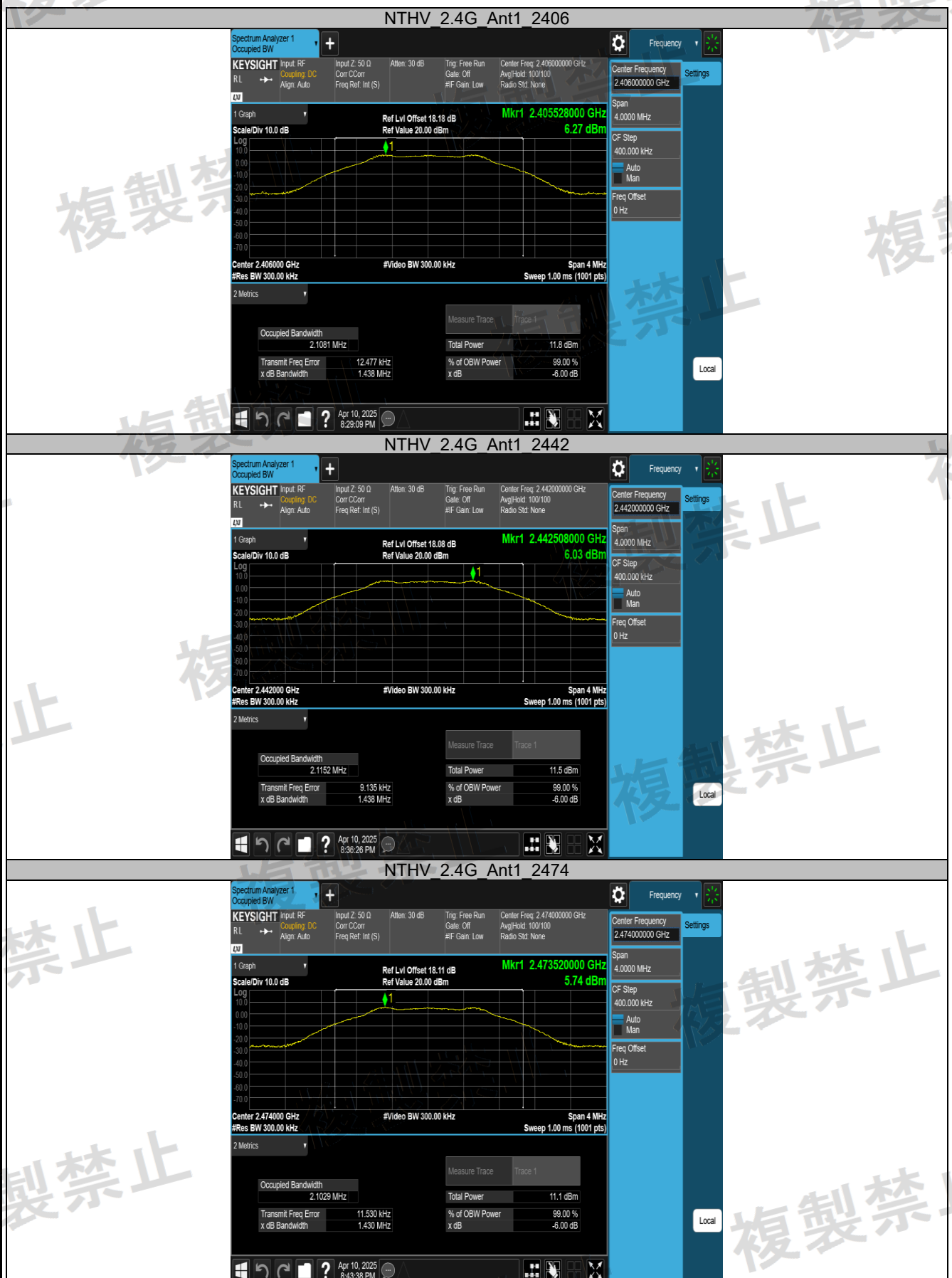
Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2406	2.103	≤26	PASS
			2442	2.108	≤26	PASS
			2474	2.099	≤26	PASS
NTLV	2.4G	Ant1	2406	2.105	≤26	PASS
			2442	2.111	≤26	PASS
			2474	2.107	≤26	PASS
NTHV	2.4G	Ant1	2406	2.108	≤26	PASS
			2442	2.115	≤26	PASS
			2474	2.103	≤26	PASS

Test Graphs





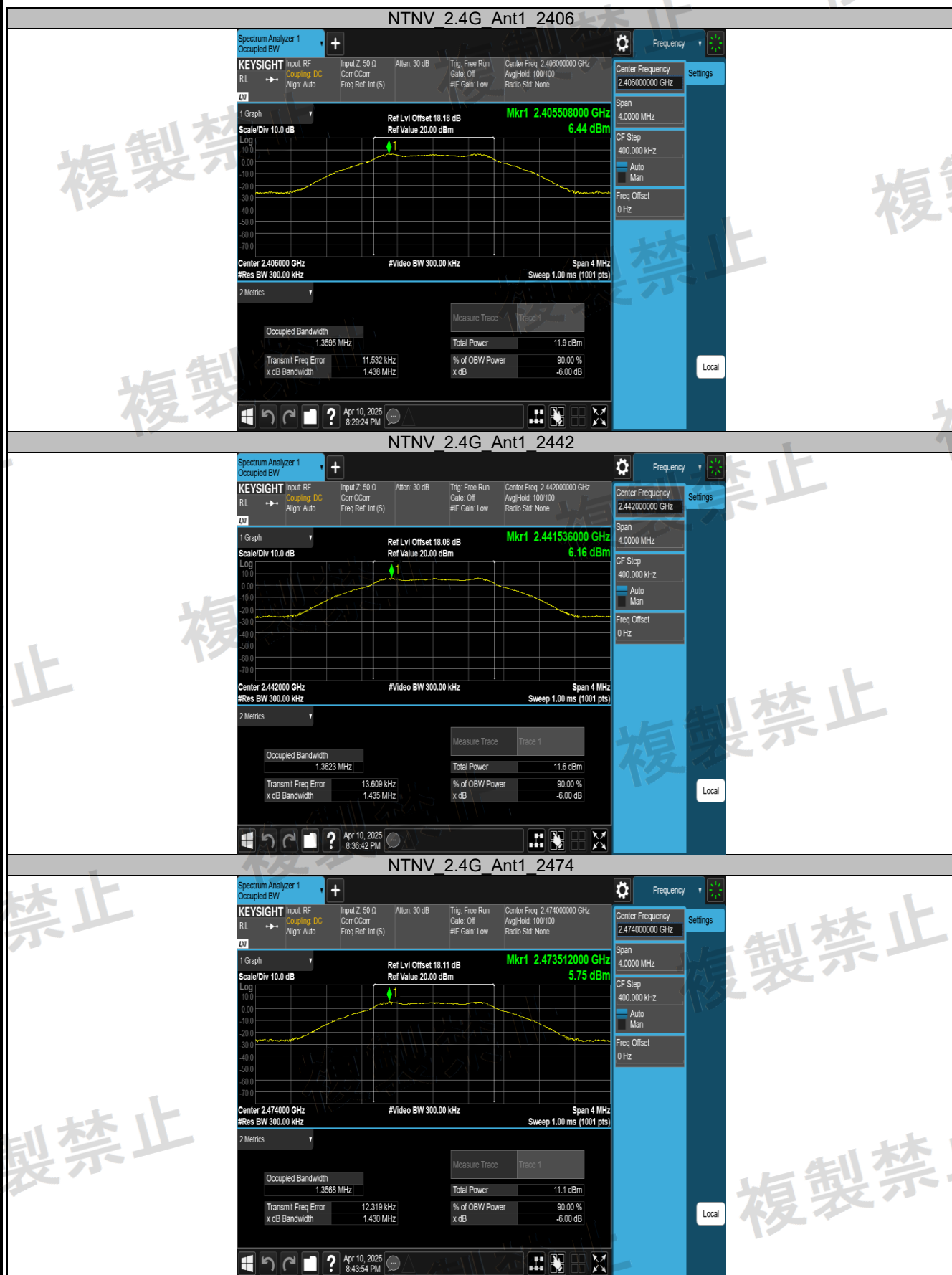


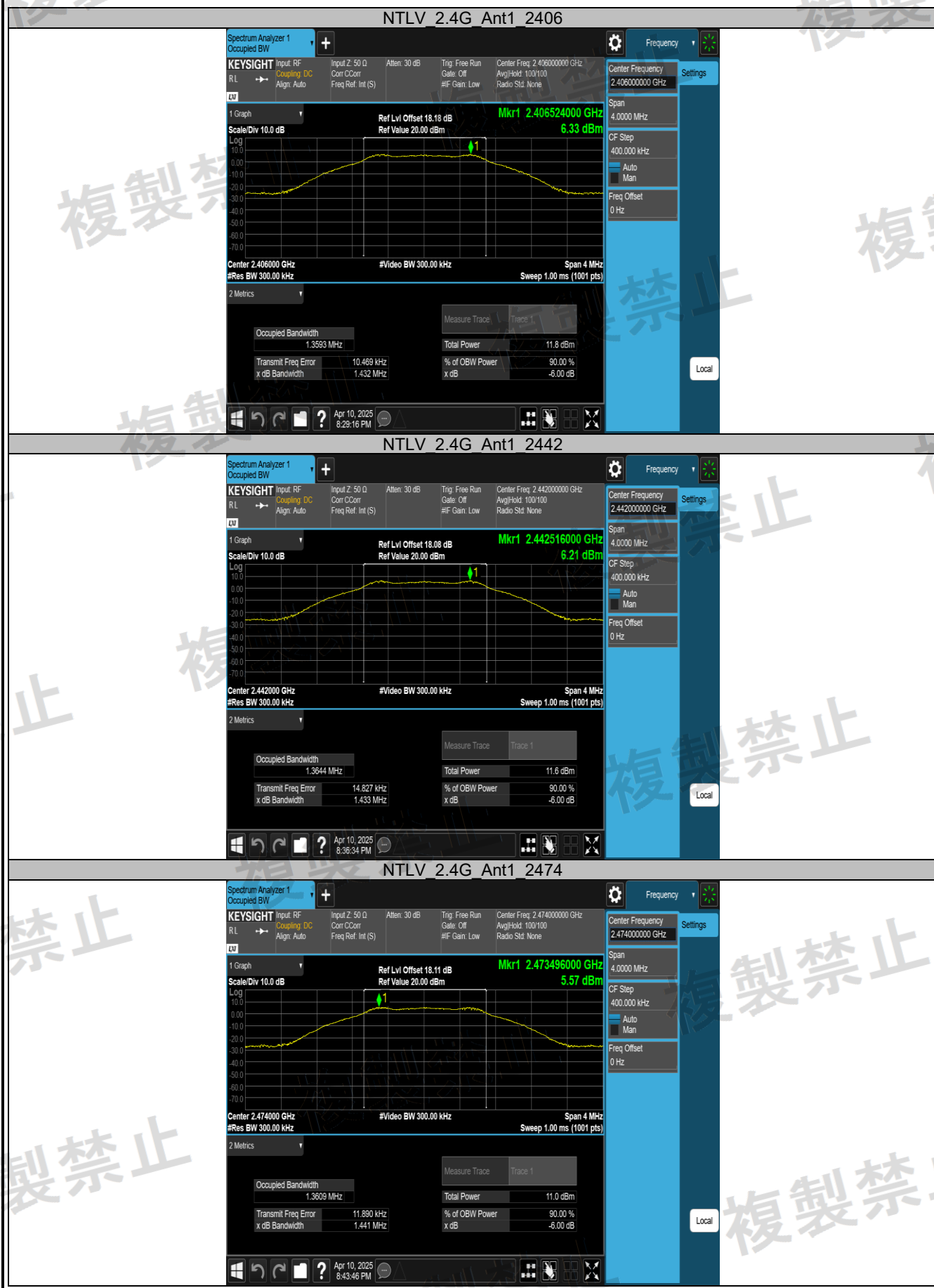
Appendix B.4: Test Results of Spread Bandwidth (90%)

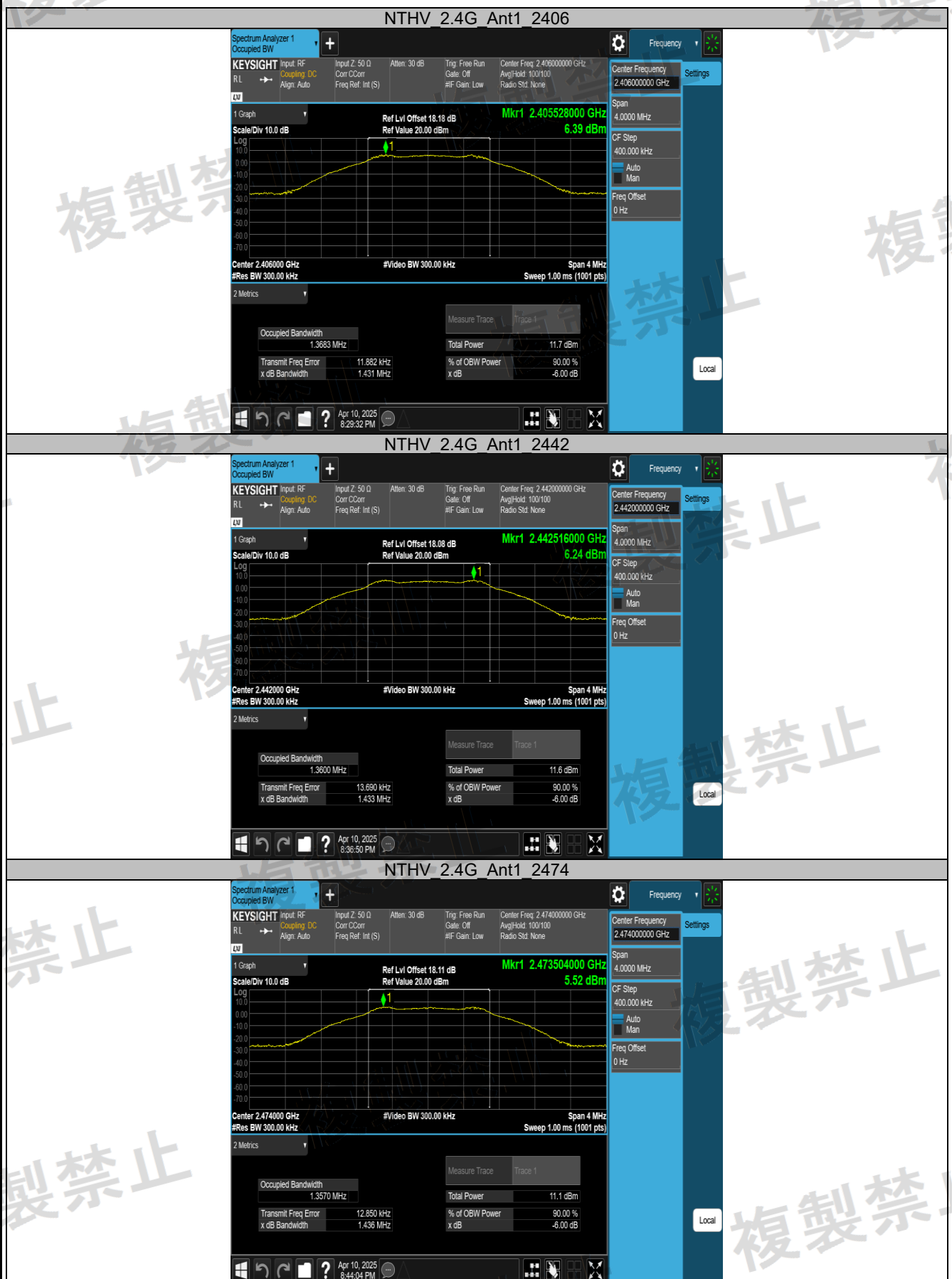
Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	2.4G	Ant1	2406	1.360	≥0.5	PASS
			2442	1.362	≥0.5	PASS
			2474	1.357	≥0.5	PASS
NTLV	2.4G	Ant1	2406	1.359	≥0.5	PASS
			2442	1.364	≥0.5	PASS
			2474	1.361	≥0.5	PASS
NTHV	2.4G	Ant1	2406	1.368	≥0.5	PASS
			2442	1.360	≥0.5	PASS
			2474	1.357	≥0.5	PASS

Test Graphs







Appendix B.5: Test Results of Spurious Emissions for Transmitter

Test Result

Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	2.4G	Ant1	2406	30~500	470.86	-49.53	≤-26	0.01114	≤2.5	PASS
				500~1000	730.00	-48.87	≤-26	0.01297	≤2.5	PASS
				1000~2387	2366.89	-47.30	≤-26	0.01862	≤2.5	PASS
				2387~2400	2392.27	-36.23	≤-16	0.23823	≤25	PASS
				2483.5~2496.5	2492.64	-36.15	≤-16	0.24266	≤25	PASS
				2496.5~13000	3779.50	-43.25	≤-26	0.04732	≤2.5	PASS
			2442	30~500	455.47	-49.56	≤-26	0.01107	≤2.5	PASS
				500~1000	857.00	-49.15	≤-26	0.01216	≤2.5	PASS
				1000~2387	2293.03	-46.78	≤-26	0.02099	≤2.5	PASS
				2387~2400	2398.57	-36.64	≤-16	0.21677	≤25	PASS
				2483.5~2496.5	2489.86	-35.84	≤-16	0.26062	≤25	PASS
				2496.5~13000	5069.86	-43.41	≤-26	0.04560	≤2.5	PASS
			2474	30~500	451.94	-48.83	≤-26	0.01309	≤2.5	PASS
				500~1000	956.25	-49.11	≤-26	0.01227	≤2.5	PASS
				1000~2387	2374.17	-46.34	≤-26	0.02323	≤2.5	PASS
				2387~2400	2389.82	-36.52	≤-16	0.22284	≤25	PASS
				2483.5~2496.5	2487.43	-35.57	≤-16	0.27733	≤25	PASS
				2496.5~13000	3791.06	-43.52	≤-26	0.04446	≤2.5	PASS
NTLV	2.4G	Ant1	2406	30~500	476.97	-49.47	≤-26	0.01130	≤2.5	PASS
				500~1000	859.75	-49.03	≤-26	0.01250	≤2.5	PASS
				1000~2387	2379.02	-46.20	≤-26	0.02399	≤2.5	PASS
				2387~2400	2396.34	-36.11	≤-16	0.24491	≤25	PASS
				2483.5~2496.5	2492.17	-36.05	≤-16	0.24831	≤25	PASS
				2496.5~13000	3805.76	-43.09	≤-26	0.04909	≤2.5	PASS
			2442	30~500	489.31	-49.61	≤-26	0.01094	≤2.5	PASS
				500~1000	836.50	-48.98	≤-26	0.01265	≤2.5	PASS
				1000~2387	2355.79	-46.31	≤-26	0.02339	≤2.5	PASS
				2387~2400	2398.38	-36.53	≤-16	0.22233	≤25	PASS
				2483.5~2496.5	2495.34	-35.92	≤-16	0.25586	≤25	PASS
				2496.5~13000	3836.22	-42.40	≤-26	0.05754	≤2.5	PASS
			2474	30~500	467.69	-49.70	≤-26	0.01072	≤2.5	PASS
				500~1000	886.25	-47.80	≤-26	0.01660	≤2.5	PASS
				1000~2387	2375.90	-46.65	≤-26	0.02163	≤2.5	PASS
				2387~2400	2392.76	-35.72	≤-16	0.26792	≤25	PASS
				2483.5~2496.5	2484.29	-35.93	≤-16	0.25527	≤25	PASS
				2496.5~13000	3712.81	-43.37	≤-26	0.04603	≤2.5	PASS
NTHV	2.4G	Ant1	2406	30~500	477.21	-49.36	≤-26	0.01159	≤2.5	PASS
				500~1000	864.63	-48.65	≤-26	0.01365	≤2.5	PASS
				1000~2387	2380.07	-46.18	≤-26	0.02410	≤2.5	PASS
				2387~2400	2392.25	-36.43	≤-16	0.22751	≤25	PASS
				2483.5~2496.5	2493.45	-36.01	≤-16	0.25061	≤25	PASS
				2496.5~13000	3733.81	-42.90	≤-26	0.05129	≤2.5	PASS
			2442	30~500	464.05	-49.31	≤-26	0.01172	≤2.5	PASS
				500~1000	847.13	-48.66	≤-26	0.01361	≤2.5	PASS
				1000~2387	2369.66	-46.83	≤-26	0.02075	≤2.5	PASS
				2387~2400	2394.12	-36.75	≤-16	0.21135	≤25	PASS



			2474	2483.5~2496.5	2490.54	-36.08	≤-16	0.24660	≤25	PASS
				2496.5~13000	3780.55	-43.19	≤-26	0.04797	≤2.5	PASS
				30~500	484.73	-49.71	≤-26	0.01069	≤2.5	PASS
				500~1000	887.63	-48.88	≤-26	0.01294	≤2.5	PASS
				1000~2387	2316.96	-45.82	≤-26	0.02618	≤2.5	PASS
				2387~2400	2392.29	-36.22	≤-16	0.23878	≤25	PASS
				2483.5~2496.5	2491.01	-36.22	≤-16	0.23878	≤25	PASS
				2496.5~13000	3741.16	-43.10	≤-26	0.04898	≤2.5	PASS

Test Graphs





































Appendix B.6: Test Results of Spurious Emissions for Receiver

Test Result

Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	2.4G	Ant1	2406	30~500	490.84	-81.45	≤-54	0.00716	≤4	PASS
				500~1000	840.00	-81.22	≤-54	0.00755	≤4	PASS
				1000~12500	3869.25	-63.73	≤-47	0.42364	≤20	PASS
			2442	30~500	499.06	-81.58	≤-54	0.00695	≤4	PASS
				500~1000	862.50	-81.36	≤-54	0.00731	≤4	PASS
				1000~12500	3749.65	-63.64	≤-47	0.43251	≤20	PASS
			2474	30~500	466.87	-81.85	≤-54	0.00653	≤4	PASS
				500~1000	883.50	-81.60	≤-54	0.00692	≤4	PASS
				1000~12500	3808.30	-63.12	≤-47	0.48753	≤20	PASS
NTLV	2.4G	Ant1	2406	30~500	453.47	-81.67	≤-54	0.00681	≤4	PASS
				500~1000	766.25	-81.35	≤-54	0.00733	≤4	PASS
				1000~12500	3809.45	-61.41	≤-47	0.72277	≤20	PASS
			2442	30~500	466.40	-82.09	≤-54	0.00618	≤4	PASS
				500~1000	872.25	-81.08	≤-54	0.00780	≤4	PASS
				1000~12500	3837.05	-63.66	≤-47	0.43053	≤20	PASS
			2474	30~500	434.91	-81.71	≤-54	0.00675	≤4	PASS
				500~1000	891.00	-81.39	≤-54	0.00726	≤4	PASS
				1000~12500	3751.38	-63.24	≤-47	0.47424	≤20	PASS
NTHV	2.4G	Ant1	2406	30~500	497.89	-81.69	≤-54	0.00678	≤4	PASS
				500~1000	830.75	-81.20	≤-54	0.00759	≤4	PASS
				1000~12500	3839.93	-63.74	≤-47	0.42267	≤20	PASS
			2442	30~500	171.24	-82.16	≤-54	0.00608	≤4	PASS
				500~1000	881.00	-80.96	≤-54	0.00802	≤4	PASS
				1000~12500	3760.58	-63.53	≤-47	0.44361	≤20	PASS
			2474	30~500	499.06	-81.13	≤-54	0.00771	≤4	PASS
				500~1000	860.75	-81.35	≤-54	0.00733	≤4	PASS
				1000~12500	3746.78	-62.84	≤-47	0.52000	≤20	PASS

Test Graphs

















