

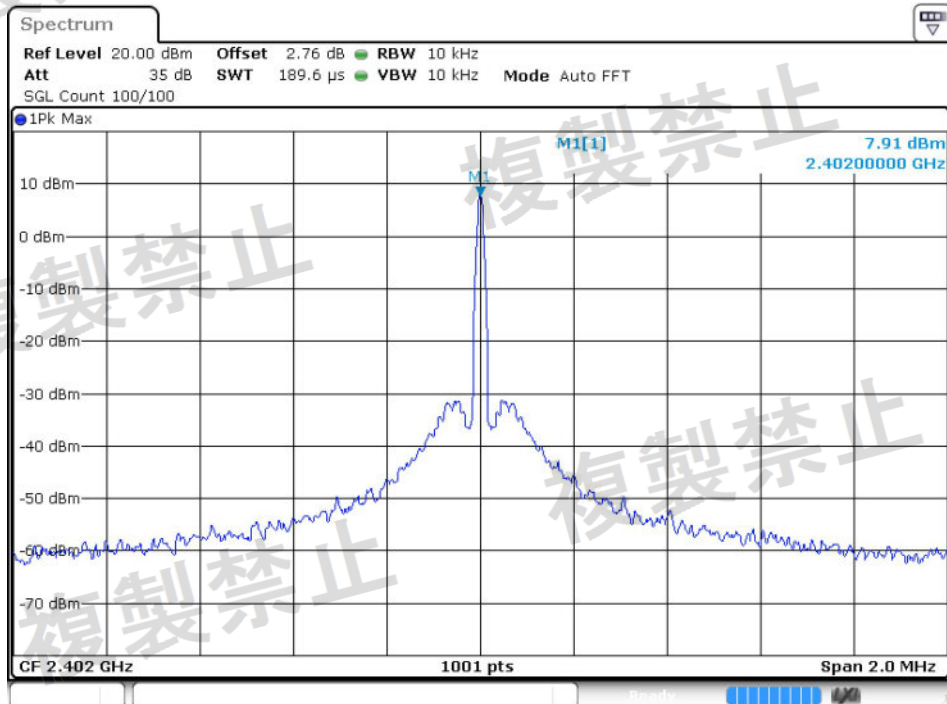
Appendix A

Frequency Error

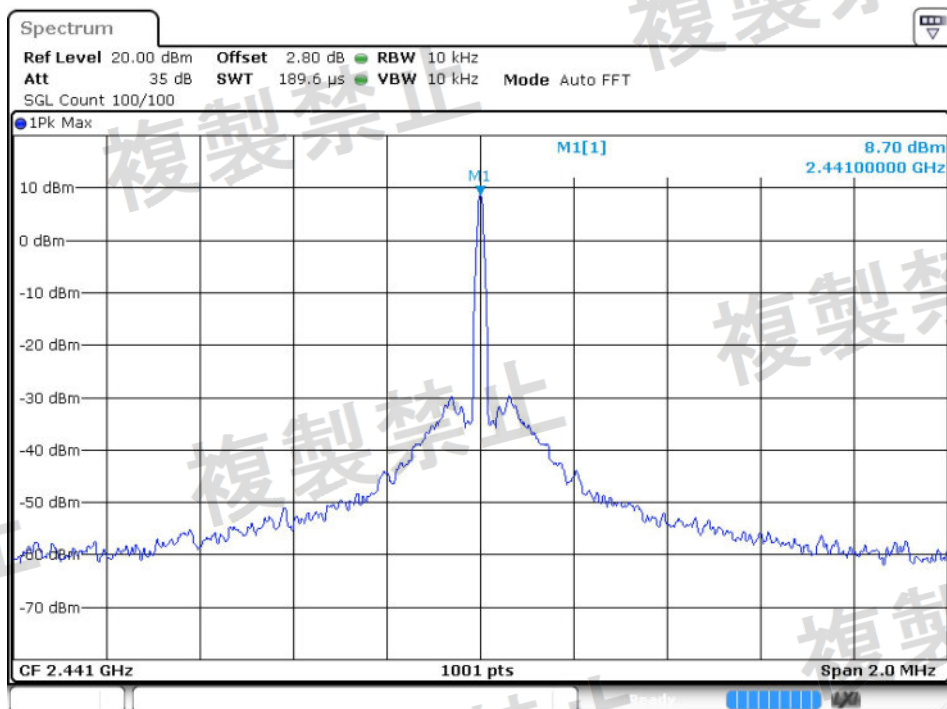
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	1-DH5	2402	Ant1	2402	0	0	50	Pass
NVNT	1-DH5	2441	Ant1	2441	0	0	50	Pass
NVNT	1-DH5	2480	Ant1	2480	0	0	50	Pass

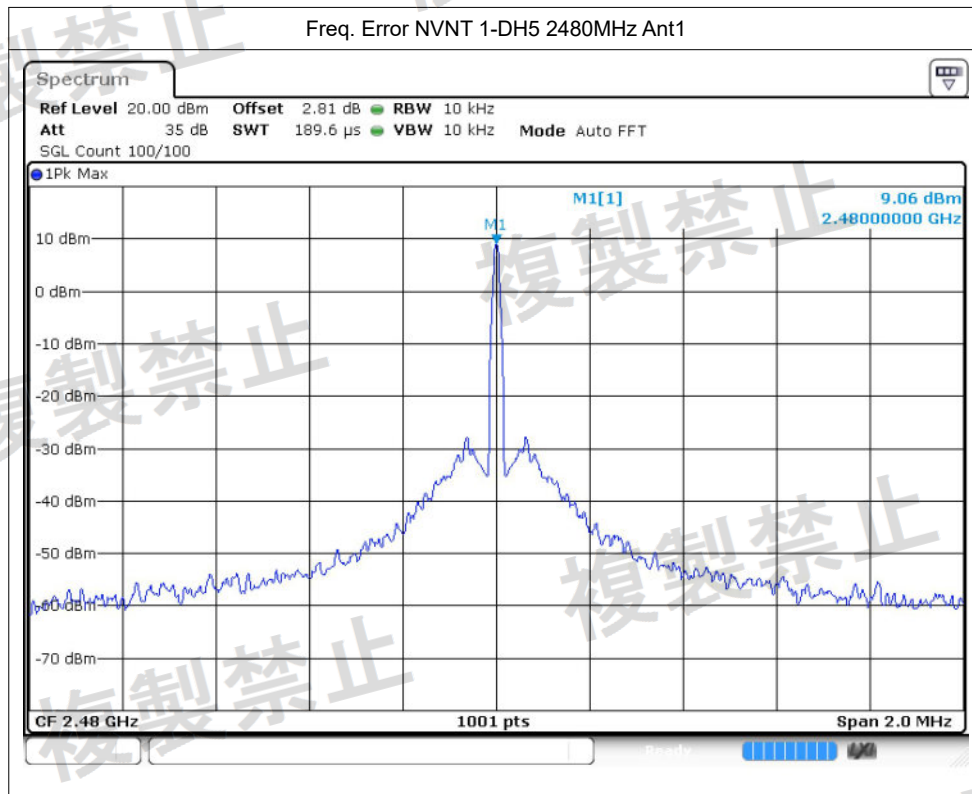
Test Graphs

Freq. Error NVNT 1-DH5 2402MHz Ant1



Freq. Error NVNT 1-DH5 2441MHz Ant1





Antenna Power

Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Power (mW)	Spread BW (MHz)	Power (mW/MHz)	Limit (mW/MHz)	Declared Power (mW/MHz)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	1-DH5	hopping	Ant1	7.51	5.636	71.089	0.079	3	0.1	-21	20	Pass
NVNT	1-DH5	hopping	Ant1	7.62	5.781	71.089	0.081	3	0.1	-19	20	Pass
NVNT	1-DH5	hopping	Ant1	7.75	5.957	71.089	0.084	3	0.1	-16	20	Pass
NVNT	2-DH5	hopping	Ant1	5	3.162	71.089	0.044	3	0.1	-56	20	Pass
NVNT	2-DH5	hopping	Ant1	5.14	3.266	71.089	0.046	3	0.1	-54	20	Pass
NVNT	2-DH5	hopping	Ant1	5.26	3.357	71.089	0.047	3	0.1	-53	20	Pass
NVNT	3-DH5	hopping	Ant1	5.01	3.17	70.969	0.045	3	0.1	-55	20	Pass
NVNT	3-DH5	hopping	Ant1	5.04	3.192	70.969	0.045	3	0.1	-55	20	Pass
NVNT	3-DH5	hopping	Ant1	5.22	3.327	70.969	0.047	3	0.1	-53	20	Pass

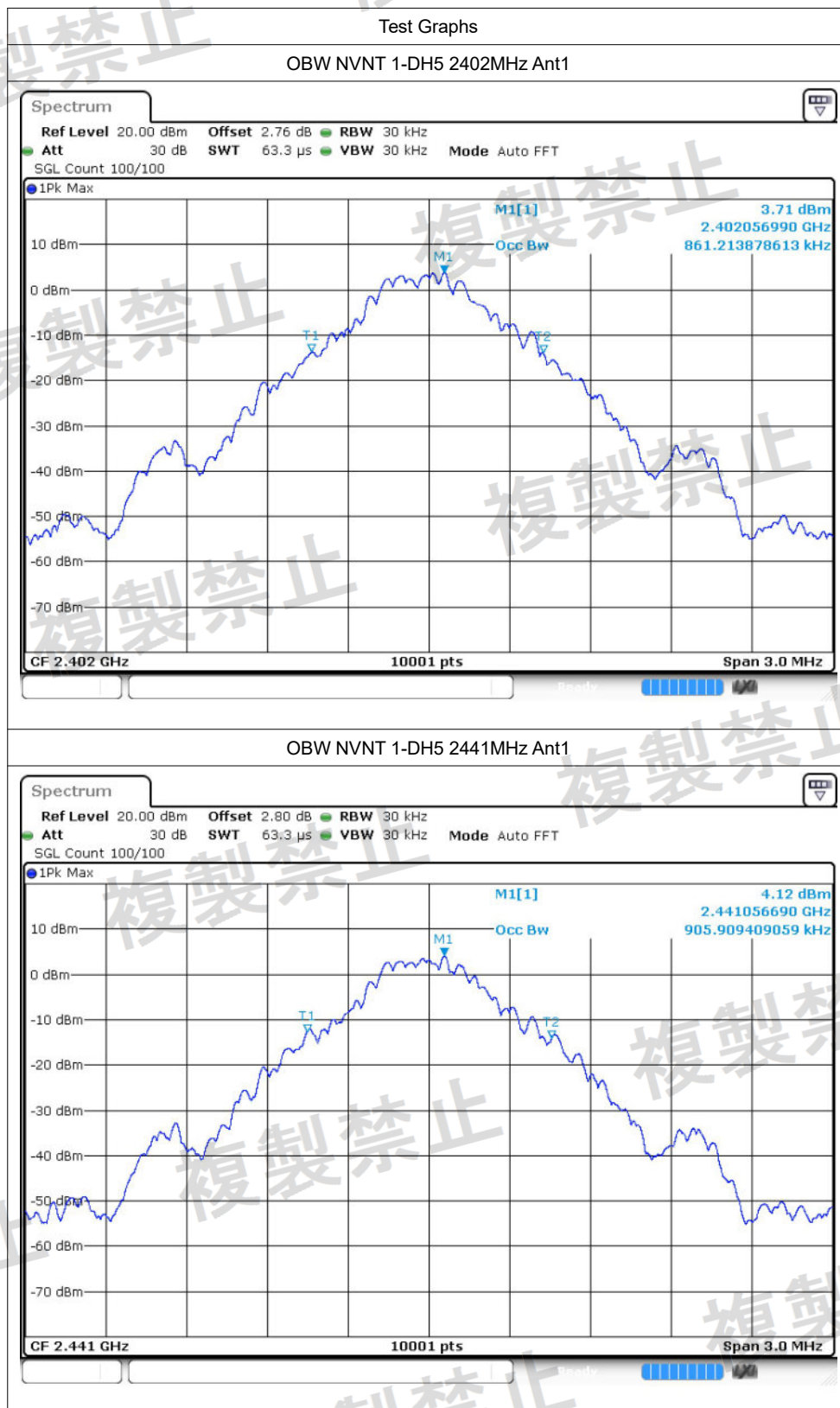
Power (mW/MHz) = Power (mW) / Spread BW (MHz)

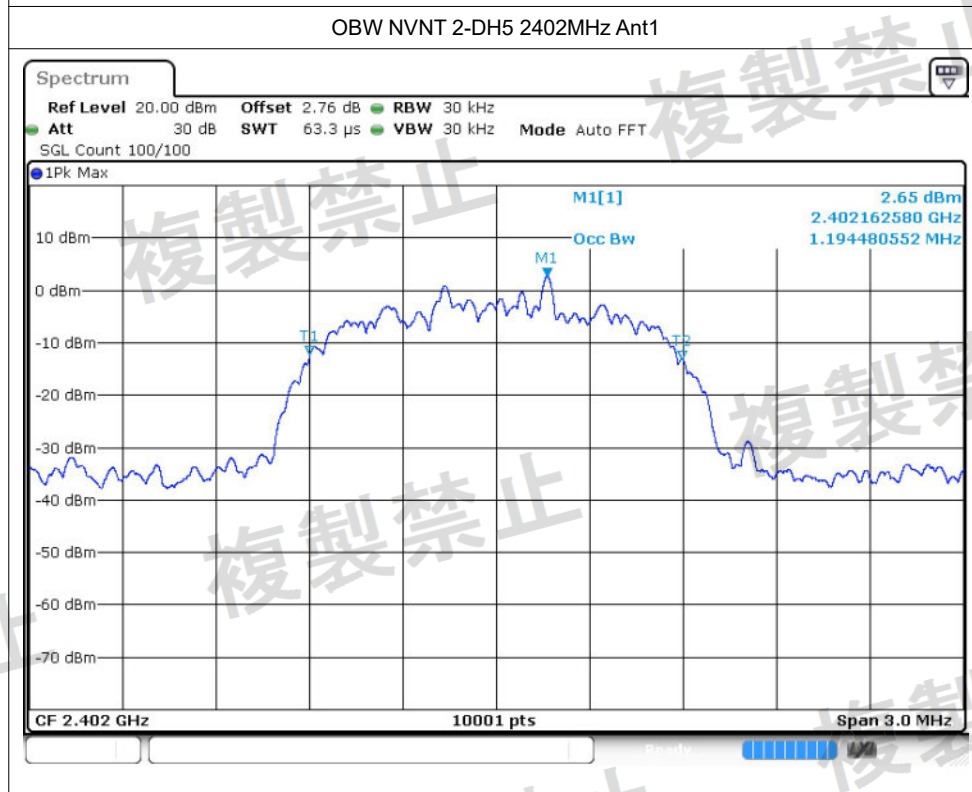
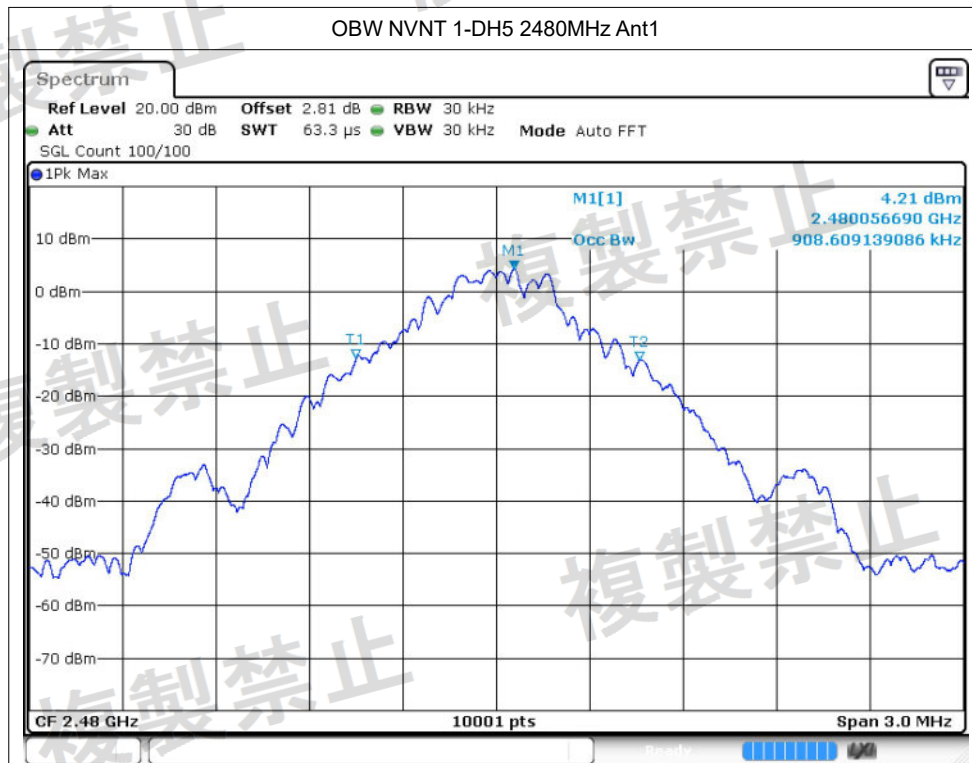
EIRP Power

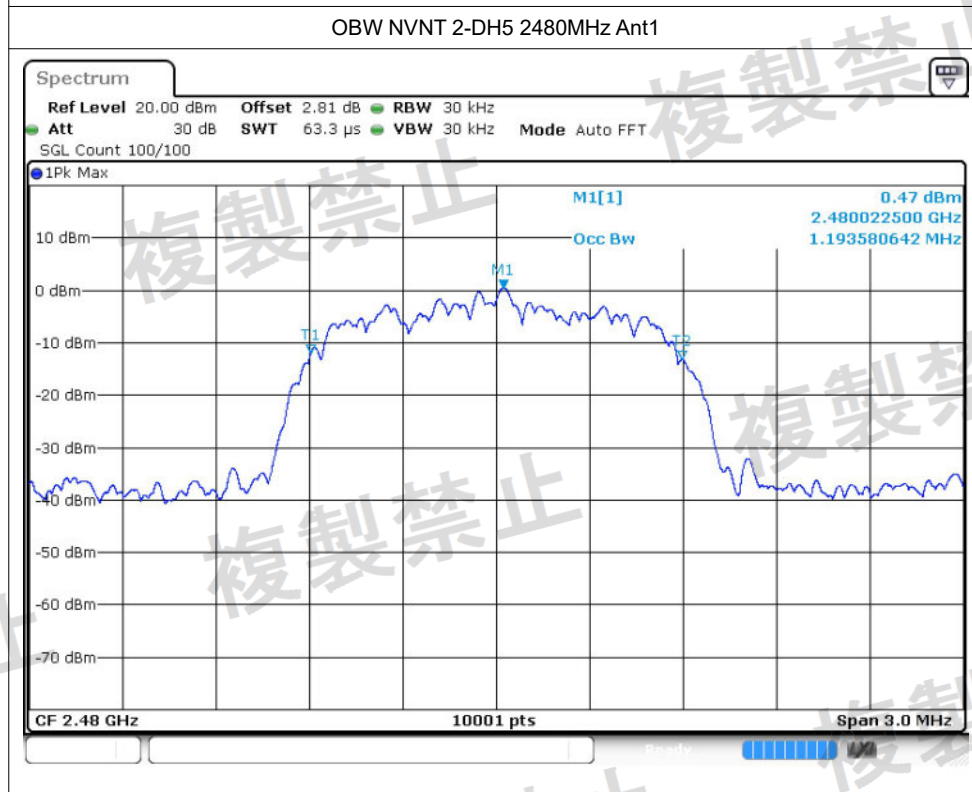
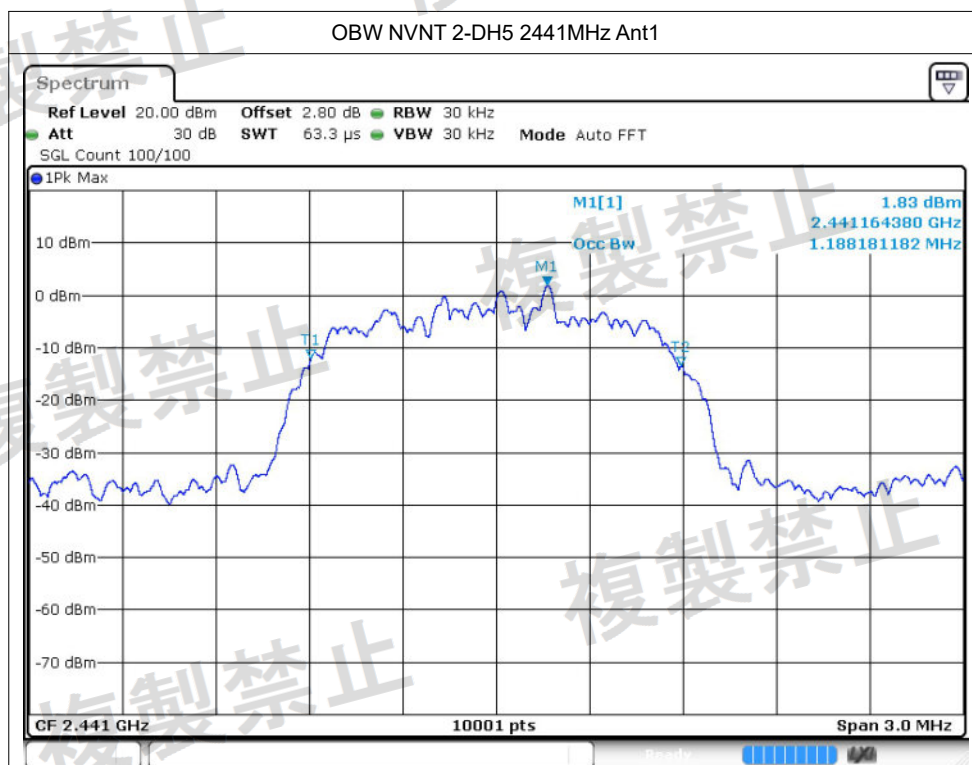
Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW/MHz)	Antenna Power (dBm/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	hopping	Ant1	0.079	-11.02	1.87	-9.15	6.91	Pass
NVNT	1-DH5	hopping	Ant1	0.081	-10.92	1.87	-9.05	6.91	Pass
NVNT	1-DH5	hopping	Ant1	0.084	-10.76	1.87	-8.89	6.91	Pass
NVNT	2-DH5	hopping	Ant1	0.044	-13.57	1.87	-11.7	6.91	Pass
NVNT	2-DH5	hopping	Ant1	0.046	-13.37	1.87	-11.5	6.91	Pass
NVNT	2-DH5	hopping	Ant1	0.047	-13.28	1.87	-11.41	6.91	Pass
NVNT	3-DH5	hopping	Ant1	0.045	-13.47	1.87	-11.6	6.91	Pass
NVNT	3-DH5	hopping	Ant1	0.045	-13.47	1.87	-11.6	6.91	Pass
NVNT	3-DH5	hopping	Ant1	0.047	-13.28	1.87	-11.41	6.91	Pass

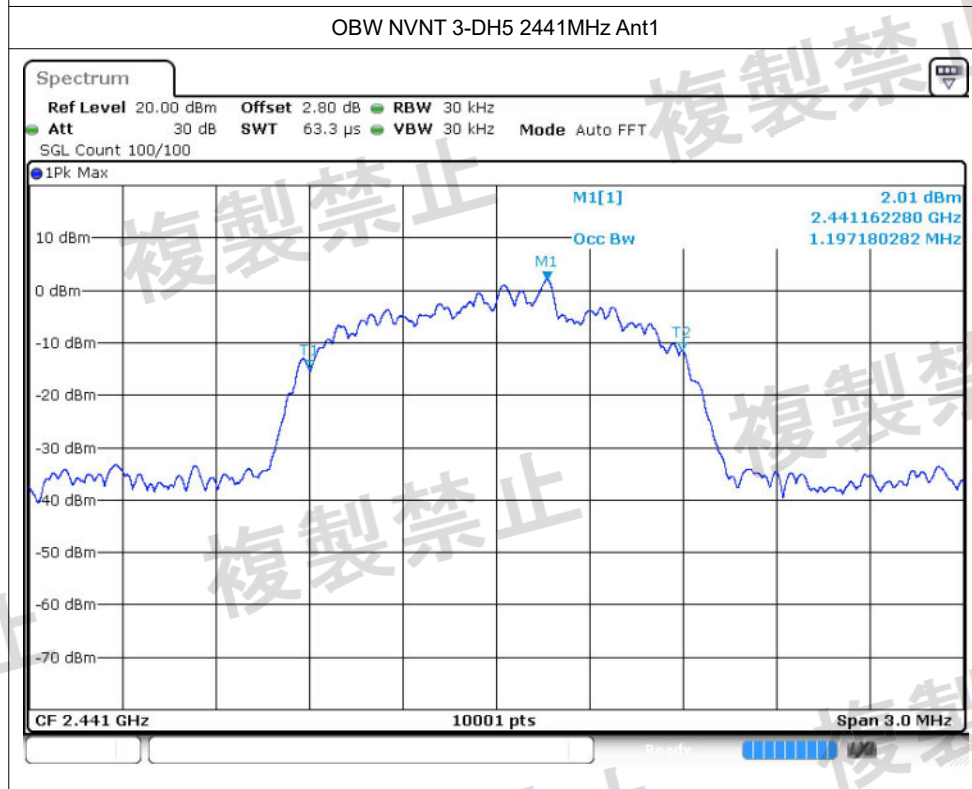
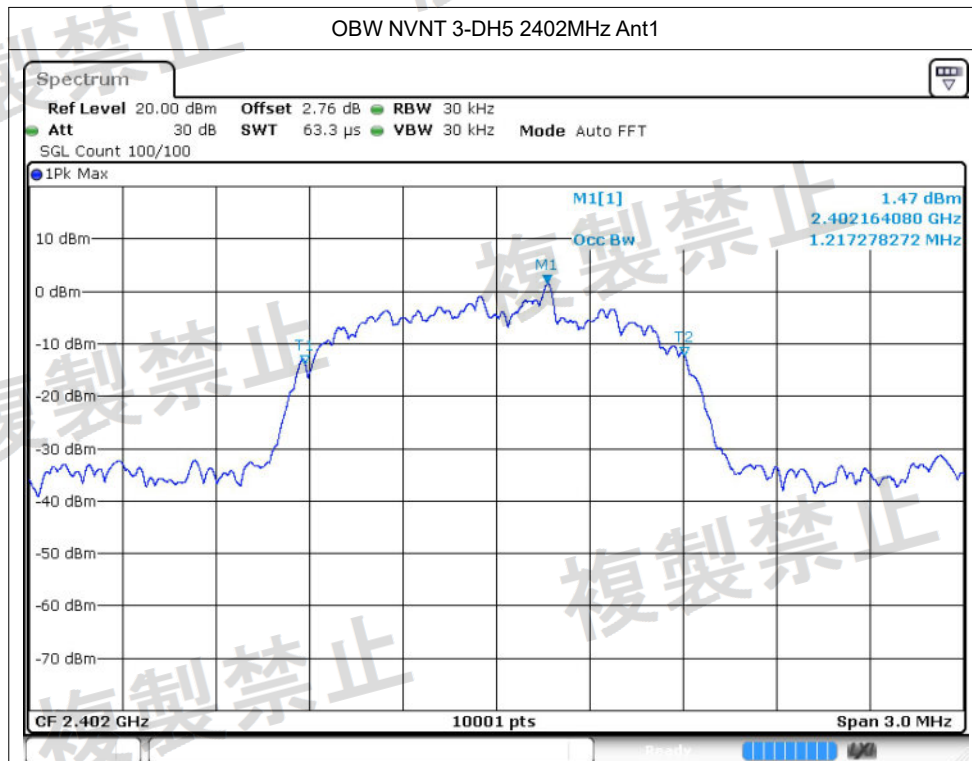
Occupied Channel Bandwidth

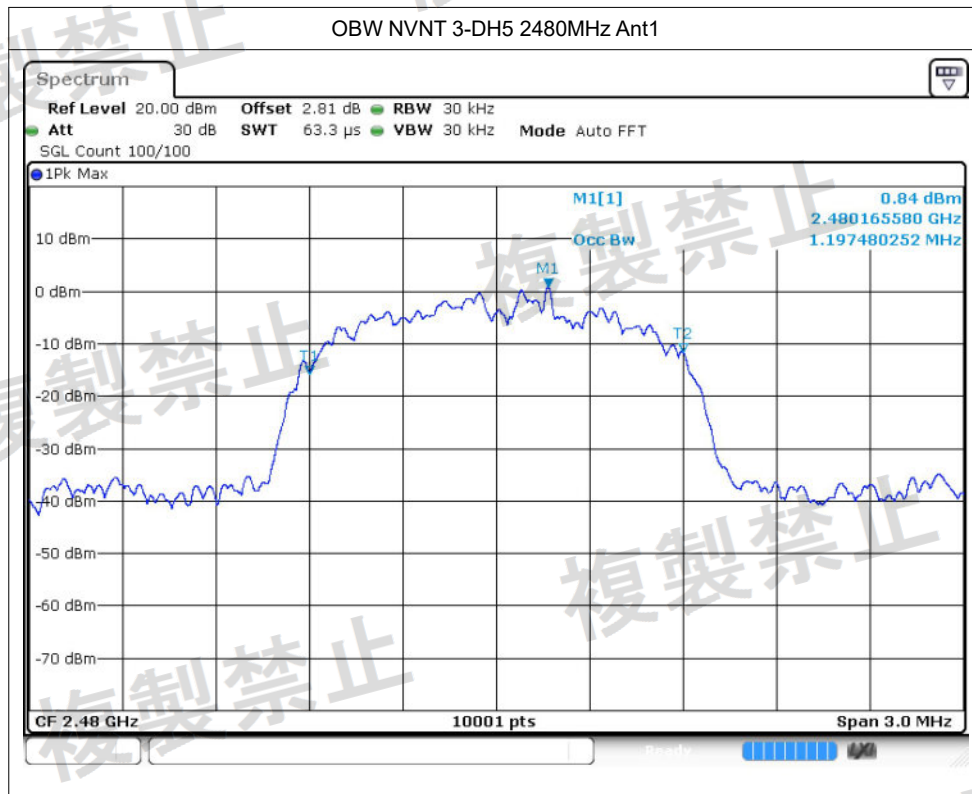
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.861
NVNT	1-DH5	2441	Ant1	0.906
NVNT	1-DH5	2480	Ant1	0.909
NVNT	2-DH5	2402	Ant1	1.194
NVNT	2-DH5	2441	Ant1	1.188
NVNT	2-DH5	2480	Ant1	1.194
NVNT	3-DH5	2402	Ant1	1.217
NVNT	3-DH5	2441	Ant1	1.197
NVNT	3-DH5	2480	Ant1	1.197





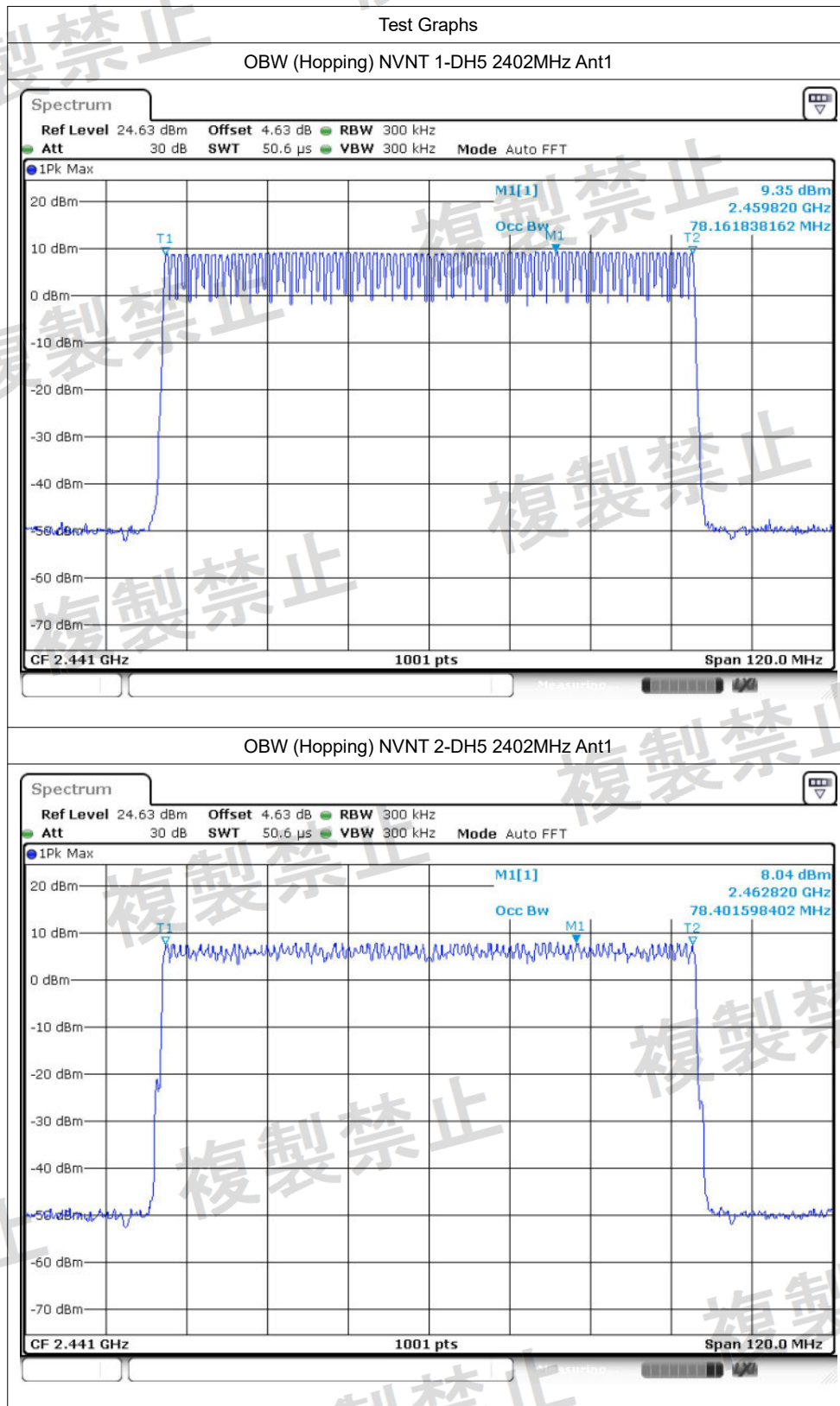


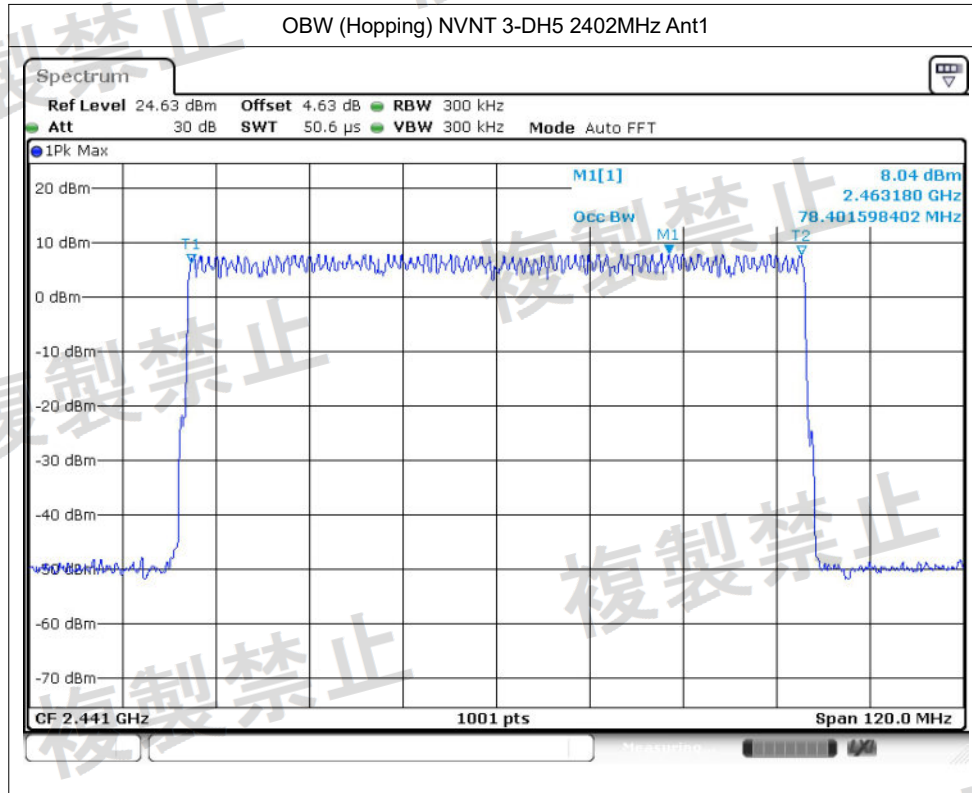




Occupied Channel Bandwidth (Hopping)

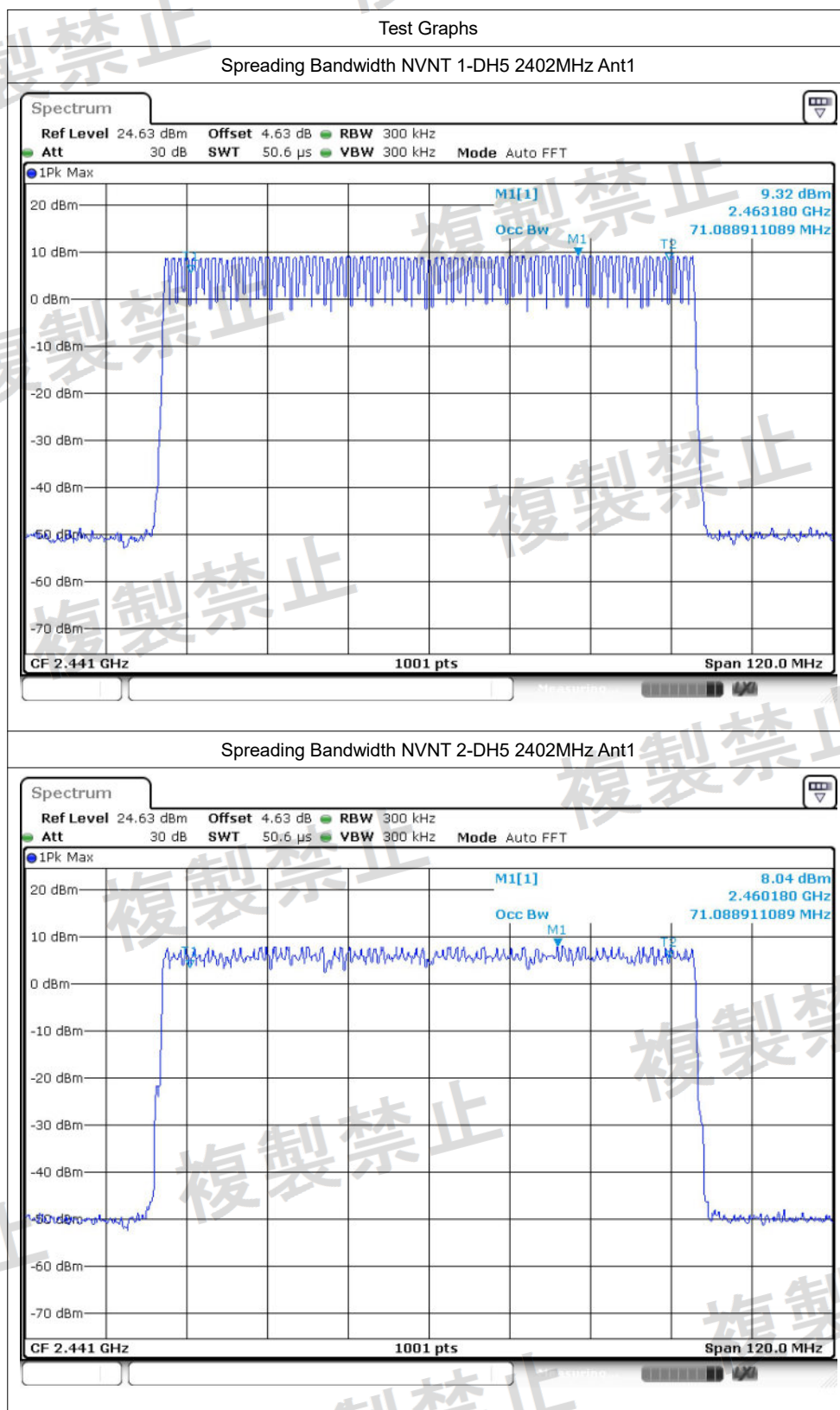
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	78.162
NVNT	2-DH5	2402	Ant1	78.402
NVNT	3-DH5	2402	Ant1	78.402

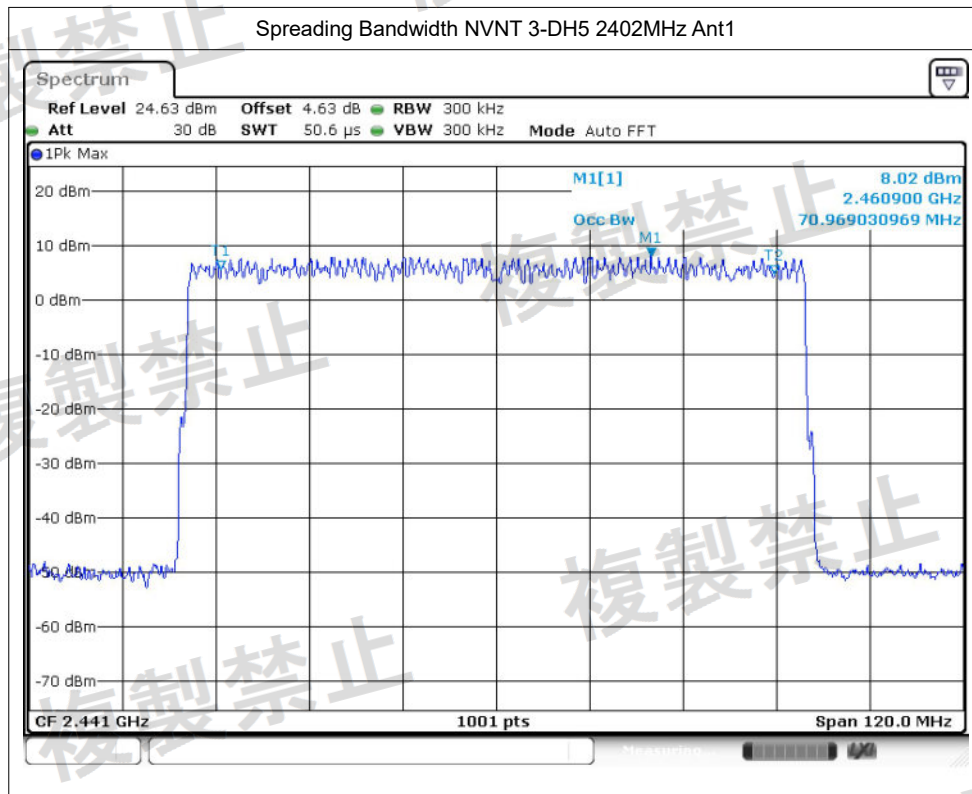




Spreading Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	90% OBW (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	71.089	0.5	Pass
NVNT	2-DH5	2402	Ant1	71.089	0.5	Pass
NVNT	3-DH5	2402	Ant1	70.969	0.5	Pass





Tx Spurious Emission

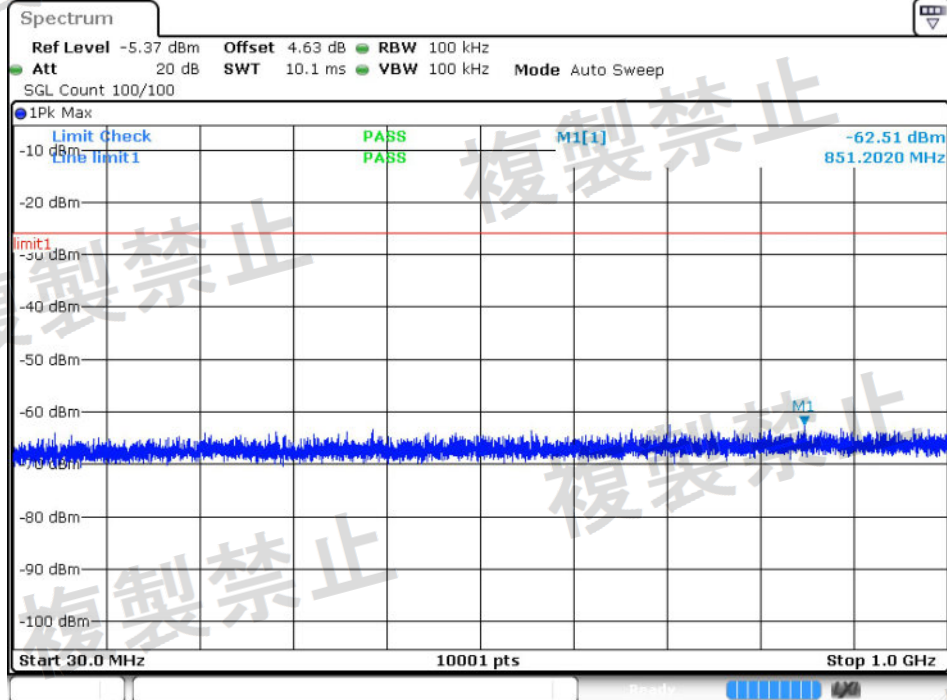
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (uW)	Max RMS Value (uW)	Limit Start(uW)	Limit Stop (uW)	Verdict
NVNT	1-DH5	2402	Ant1	30-1000	851.20	-52.51	NA	0.0056	NA	2.5	2.5	Pass
NVNT	1-DH5	2402	Ant1	1000-2387	2165.63	-53.00	NA	0.005	NA	2.5	2.5	Pass
NVNT	1-DH5	2402	Ant1	2387-2400	2400.00	-32.93	NA	0.5093	NA	25	25	Pass
NVNT	1-DH5	2402	Ant1	2483.5-2496.5	2483.98	-54.42	NA	0.0036	NA	25	25	Pass
NVNT	1-DH5	2402	Ant1	2496.5-13000	7206.27	-43.73	NA	0.0424	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	Ant1	30-1000	865.75	-52.98	NA	0.005	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	Ant1	1000-2387	2161.06	-53.00	NA	0.005	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	Ant1	2387-2400	2398.25	-55.63	NA	0.0027	NA	25	25	Pass
NVNT	1-DH5	2441	Ant1	2483.5-2496.5	2496.20	-54.58	NA	0.0035	NA	25	25	Pass
NVNT	1-DH5	2441	Ant1	2496.5-13000	7322.86	-45.40	NA	0.0288	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	Ant1	30-1000	964.11	-52.10	NA	0.0062	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	Ant1	1000-2387	2186.16	-53.11	NA	0.0049	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	Ant1	2387-2400	2389.46	-54.90	NA	0.0032	NA	25	25	Pass
NVNT	1-DH5	2480	Ant1	2483.5-2496.5	2483.50	-50.81	NA	0.0083	NA	25	25	Pass
NVNT	1-DH5	2480	Ant1	2496.5-13000	6992.00	-44.90	NA	0.0324	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	Ant1	30-1000	858.28	-51.67	NA	0.0068	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	Ant1	1000-2387	2384.09	-52.10	NA	0.0062	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	Ant1	2387-2400	2400.00	-21.46	NA	7.145	NA	25	25	Pass
NVNT	2-DH5	2402	Ant1	2483.5-2496.5	2494.71	-54.43	NA	0.0036	NA	25	25	Pass
NVNT	2-DH5	2402	Ant1	2496.5-13000	12626.08	-45.22	NA	0.0301	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	Ant1	30-1000	638.00	-52.26	NA	0.0059	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	Ant1	1000-2387	2336.93	-52.93	NA	0.0051	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	Ant1	2387-2400	2387.89	-54.73	NA	0.0034	NA	25	25	Pass
NVNT	2-DH5	2441	Ant1	2483.5-2496.5	2493.72	-54.46	NA	0.0036	NA	25	25	Pass
NVNT	2-DH5	2441	Ant1	2496.5-13000	12609.27	-44.86	NA	0.0327	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	Ant1	30-1000	727.14	-52.29	NA	0.0059	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	Ant1	1000-2387	2338.87	-53.05	NA	0.005	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	Ant1	2387-2400	2397.28	-53.65	NA	0.0043	NA	25	25	Pass
NVNT	2-DH5	2480	Ant1	2483.5-2496.5	2484.06	-49.74	NA	0.0106	NA	25	25	Pass
NVNT	2-DH5	2480	Ant1	2496.5-13000	11200.75	-44.73	NA	0.0337	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	Ant1	30-1000	860.51	-52.45	NA	0.0057	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	Ant1	1000-2387	2246.08	-53.22	NA	0.0048	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	Ant1	2387-2400	2400.00	-20.46	NA	8.995	NA	25	25	Pass
NVNT	3-DH5	2402	Ant1	2483.5-2496.5	2489.46	-54.70	NA	0.0034	NA	25	25	Pass
NVNT	3-DH5	2402	Ant1	2496.5-13000	3509.04	-44.46	NA	0.0358	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	Ant1	30-1000	776.71	-52.81	NA	0.0052	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	Ant1	1000-2387	2377.57	-53.02	NA	0.005	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	Ant1	2387-2400	2389.04	-54.13	NA	0.0039	NA	25	25	Pass



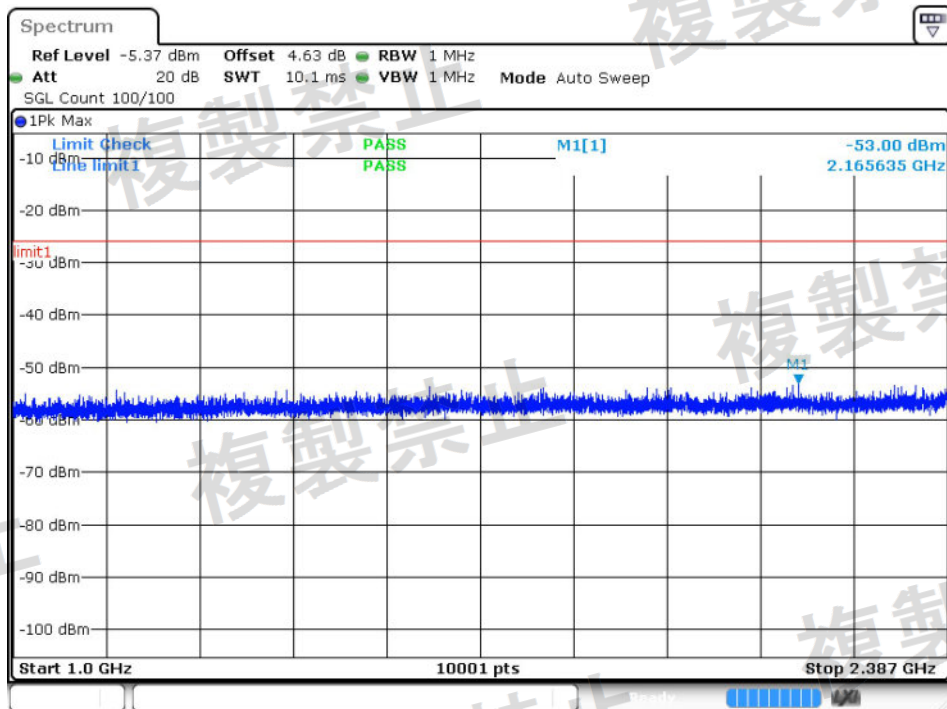
NVNT	3-DH5	2441	Ant1	2483.5-2496.5	2486.68	-54.81	NA	0.0033	NA	25	25	Pass
NVNT	3-DH5	2441	Ant1	2496.5-13000	12618.72	-44.40	NA	0.0363	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	Ant1	30-1000	939.86	-51.97	NA	0.0064	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	Ant1	1000-2387	1789.90	-53.20	NA	0.0048	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	Ant1	2387-2400	2391.66	-56.48	NA	0.0022	NA	25	25	Pass
NVNT	3-DH5	2480	Ant1	2483.5-2496.5	2483.50	-48.50	NA	0.0141	NA	25	25	Pass
NVNT	3-DH5	2480	Ant1	2496.5-13000	12609.27	-44.90	NA	0.0324	NA	2.5	2.5	Pass

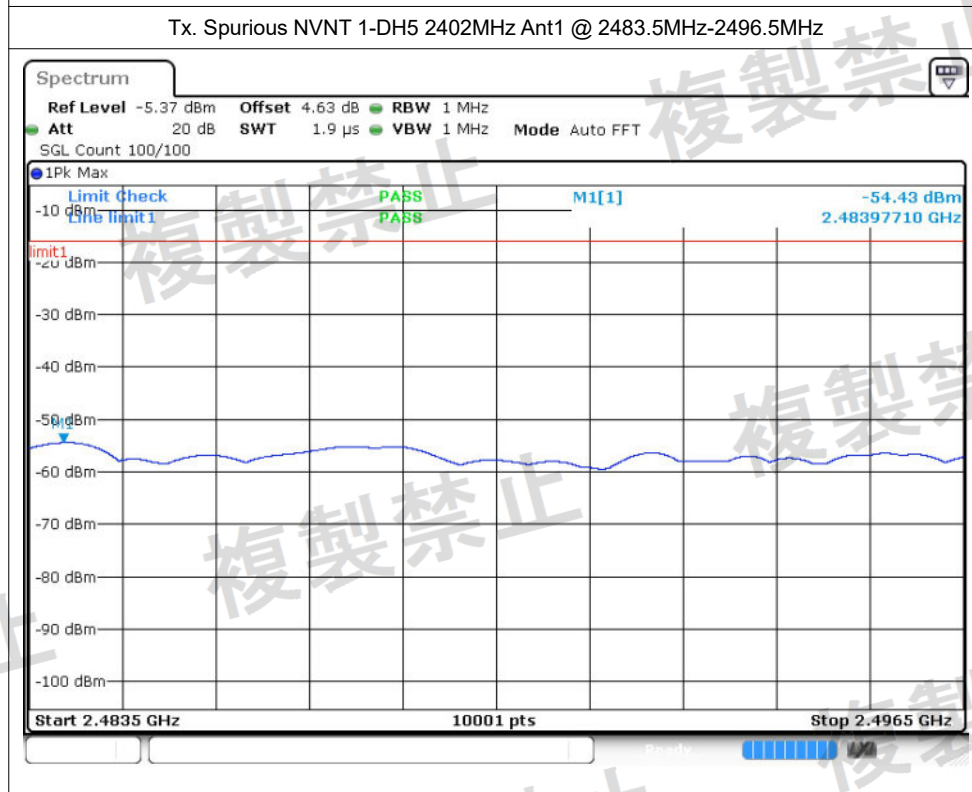
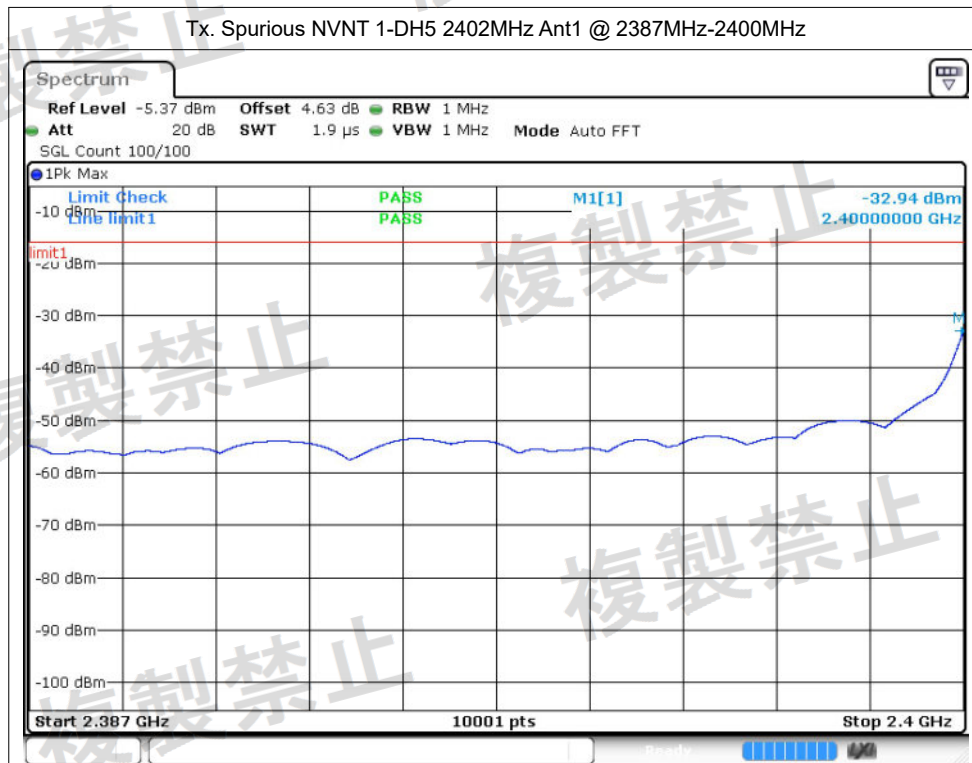
Test Graphs

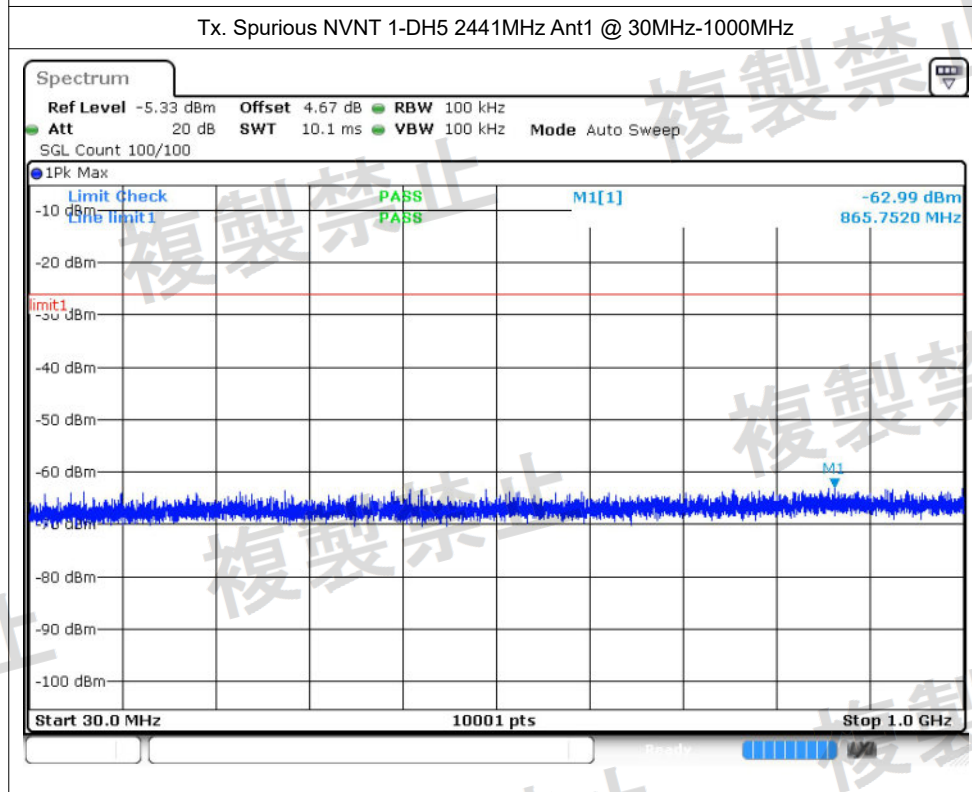
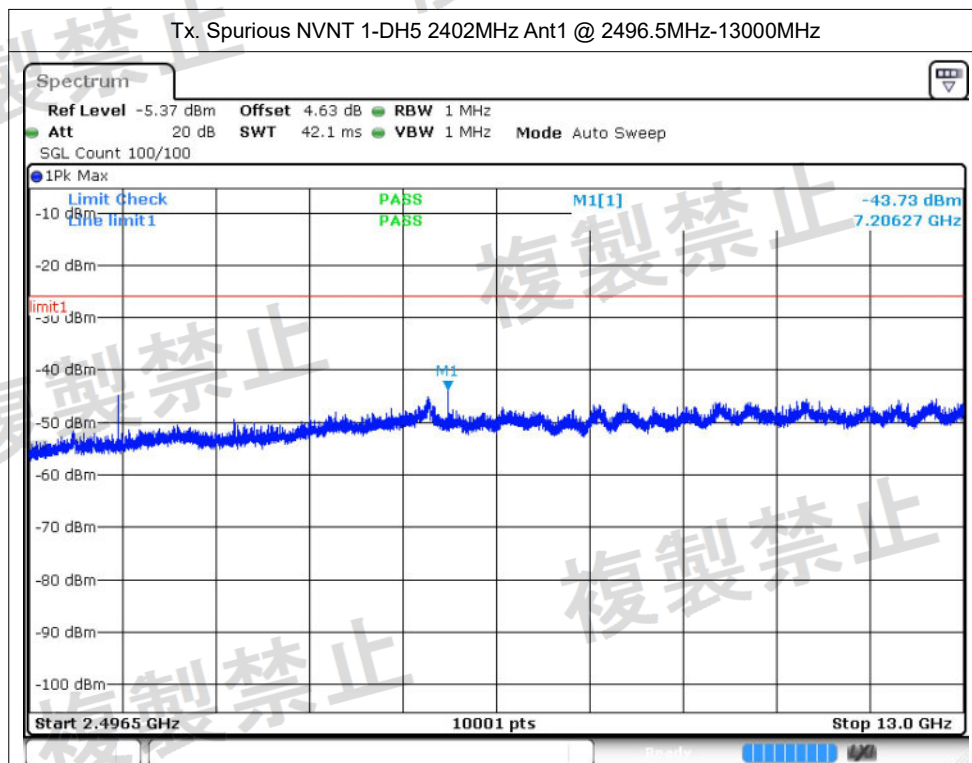
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 30MHz-1000MHz

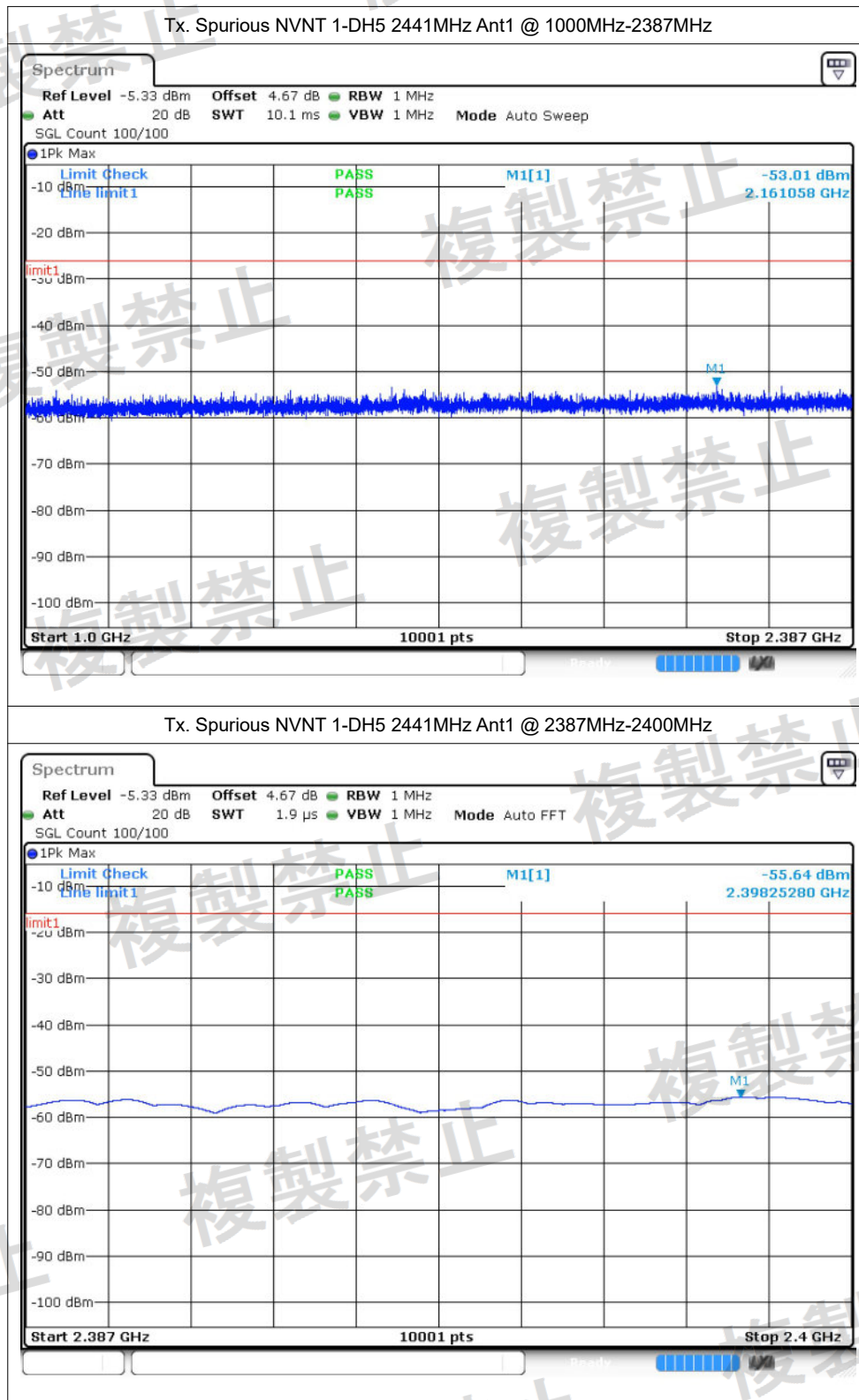


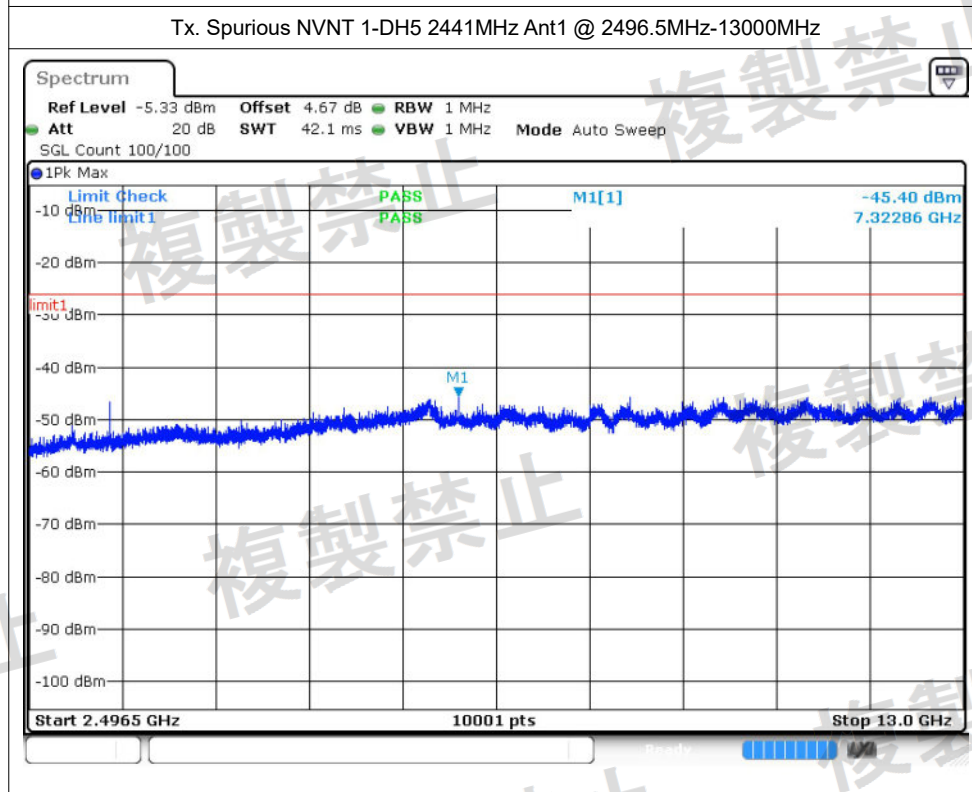
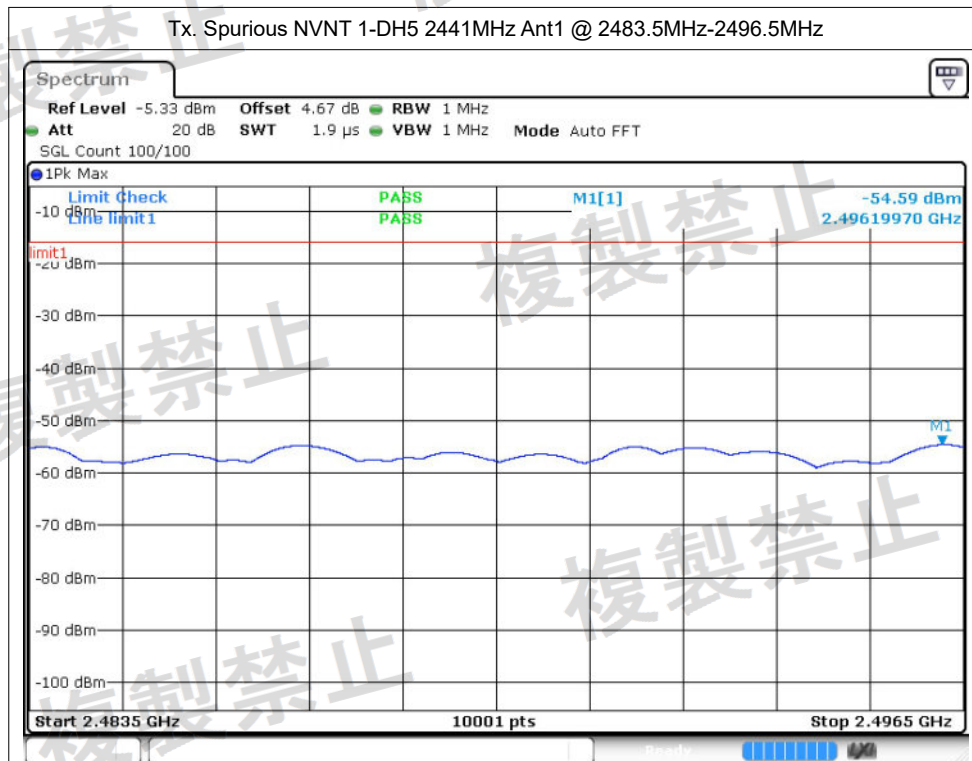
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 1000MHz-2387MHz

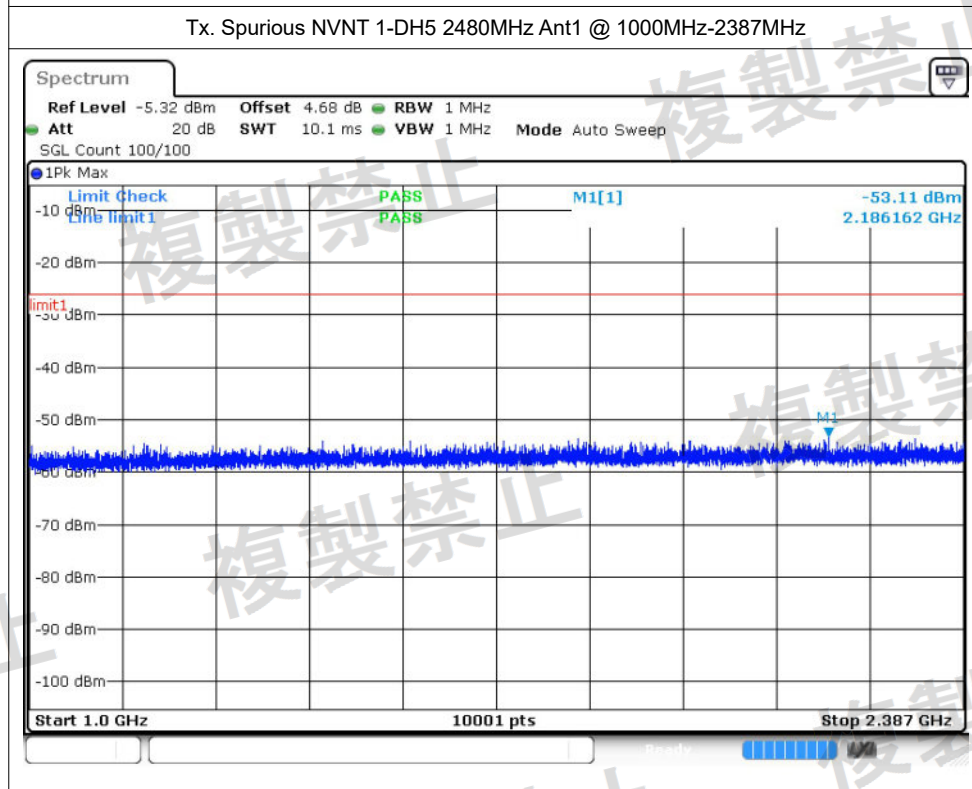
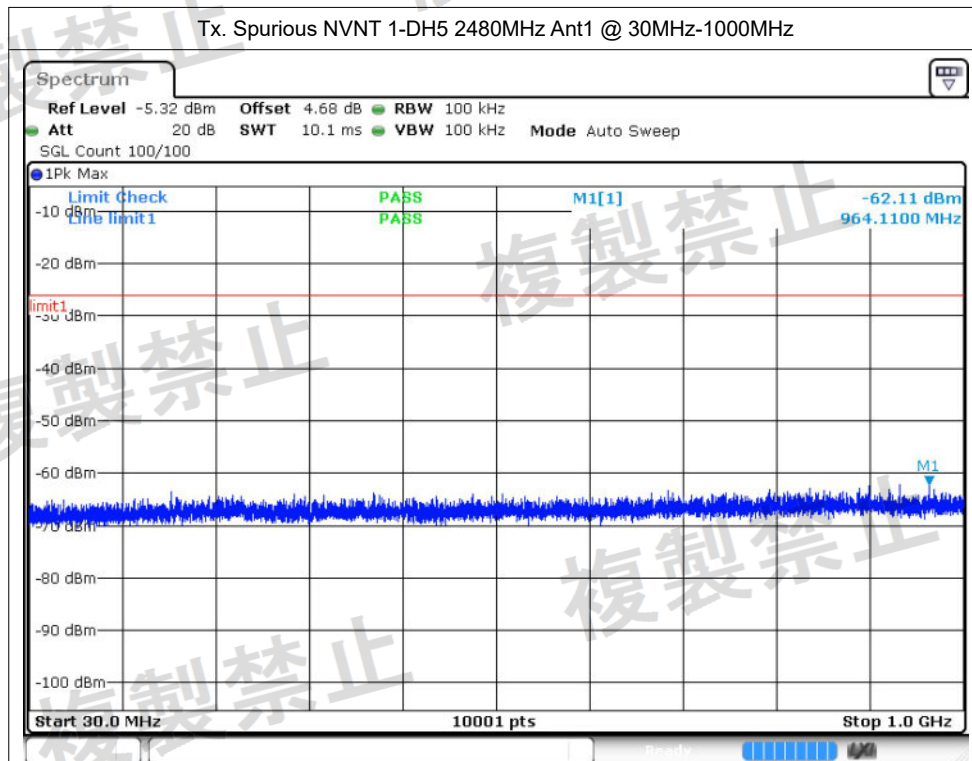




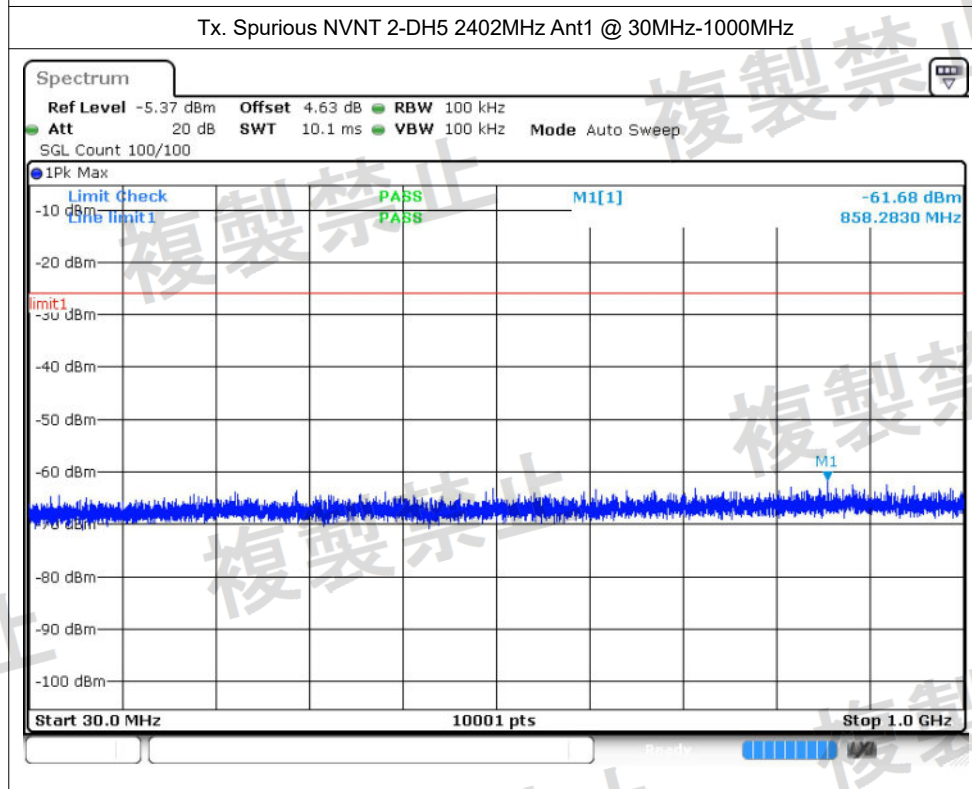
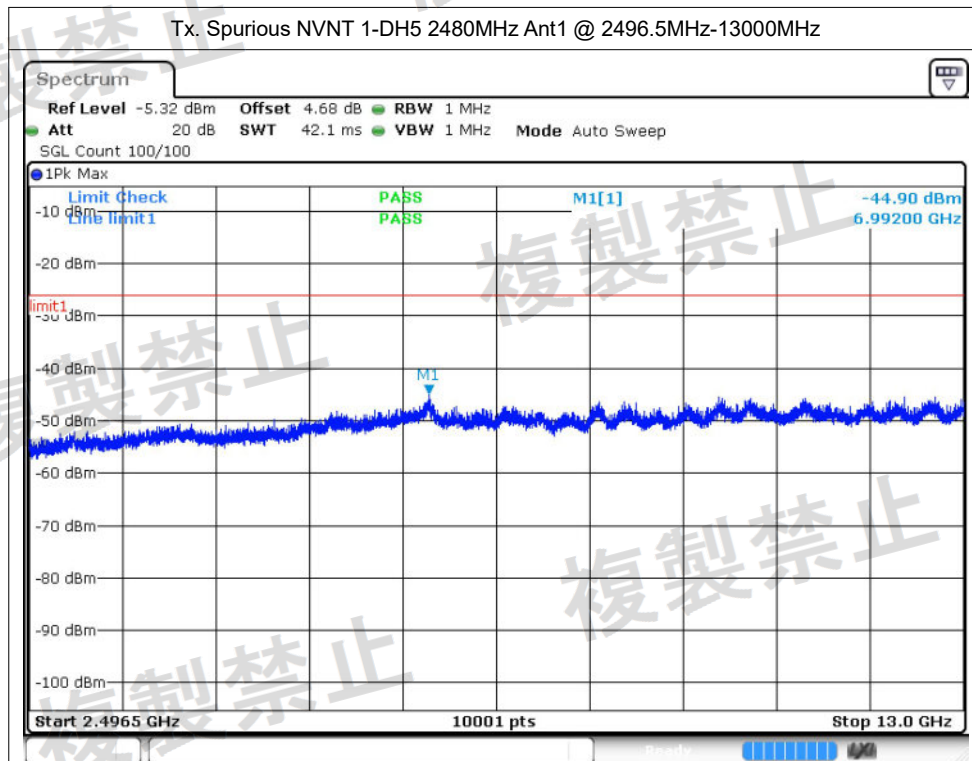


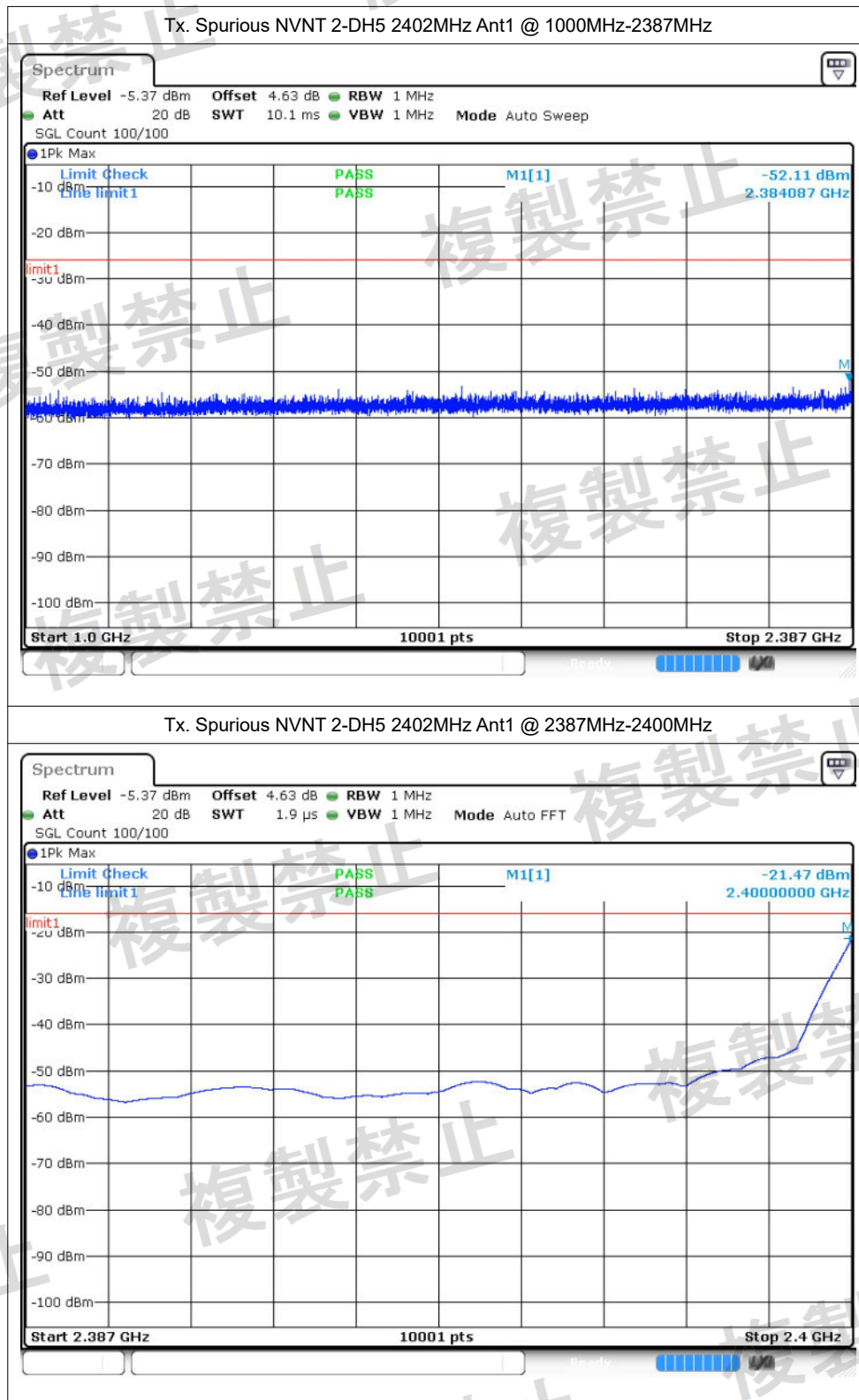


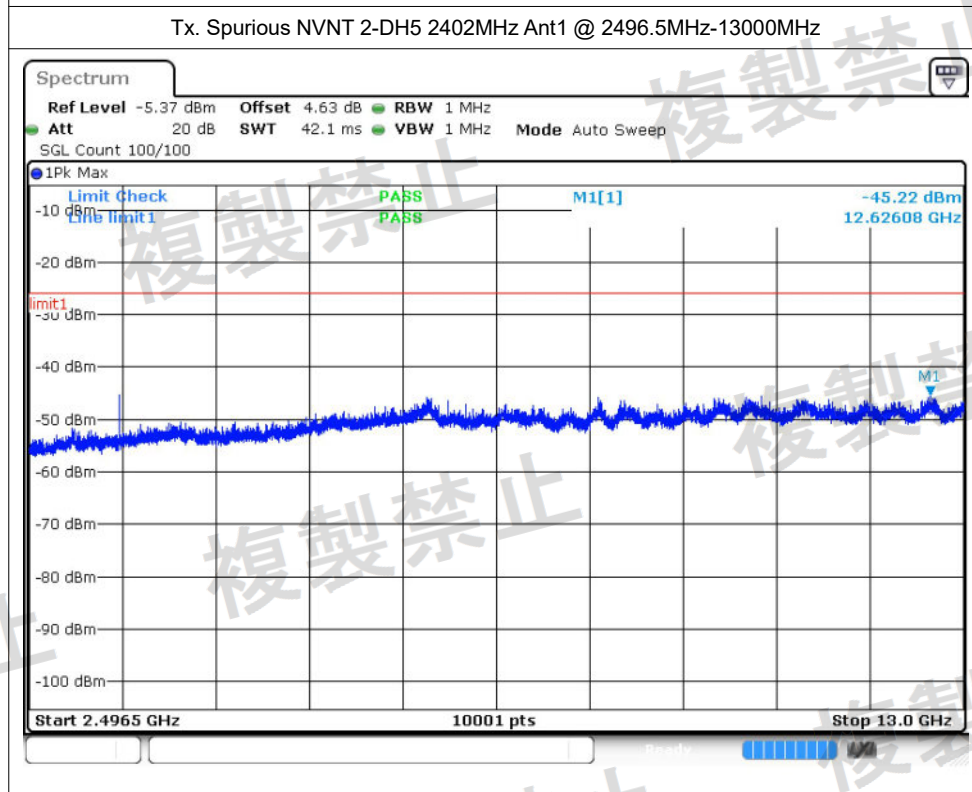
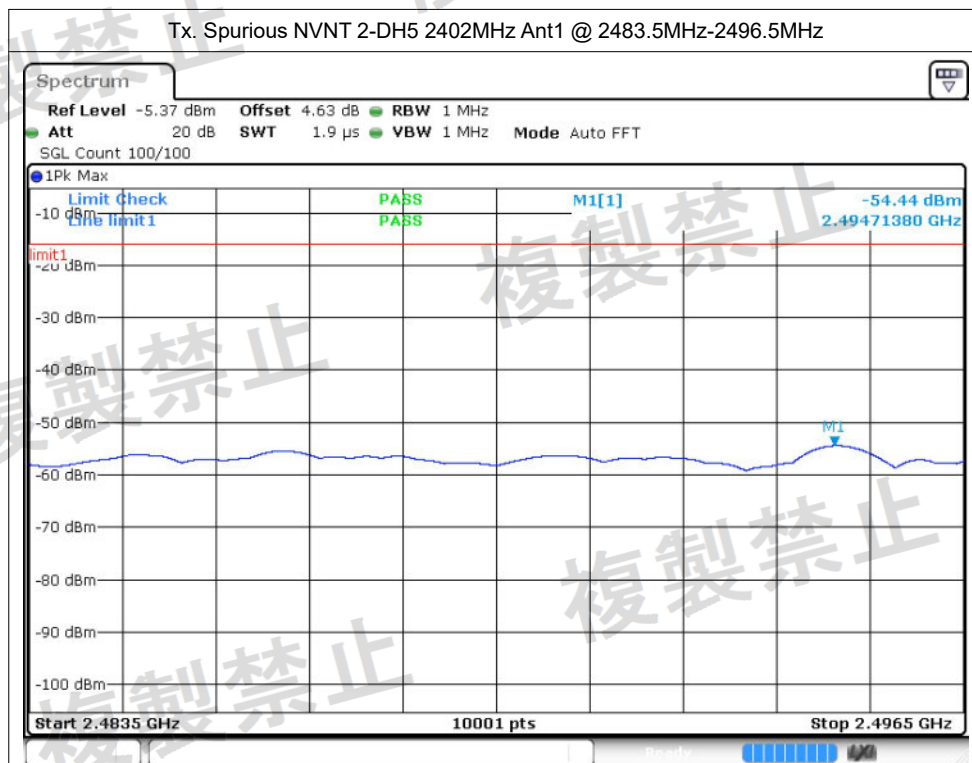


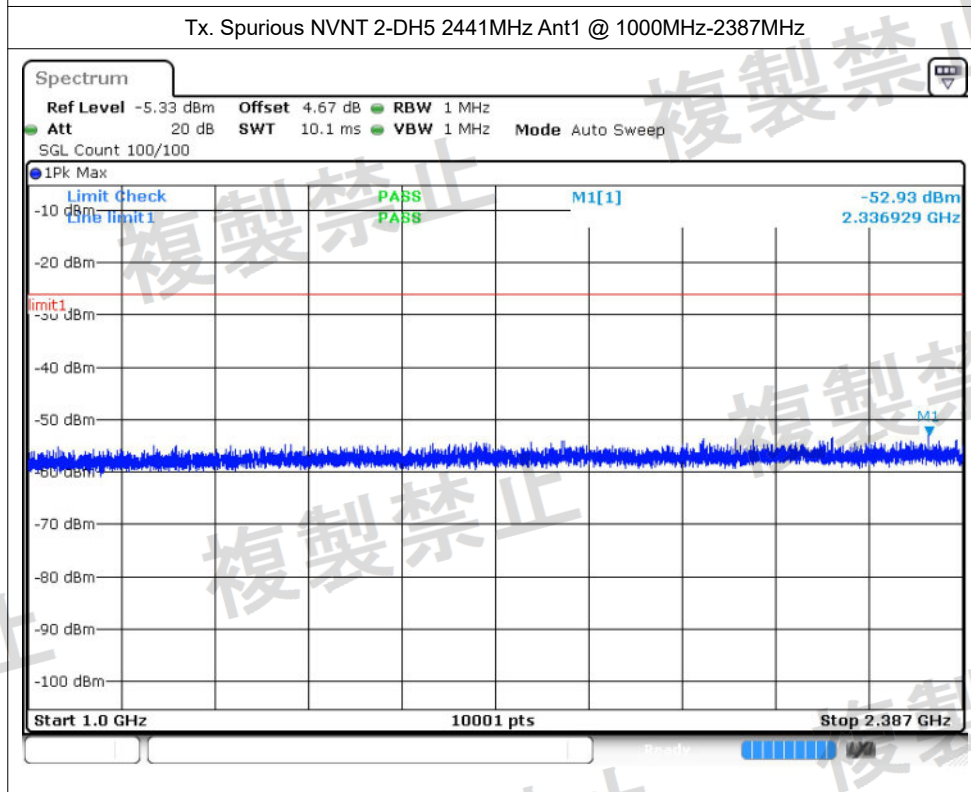
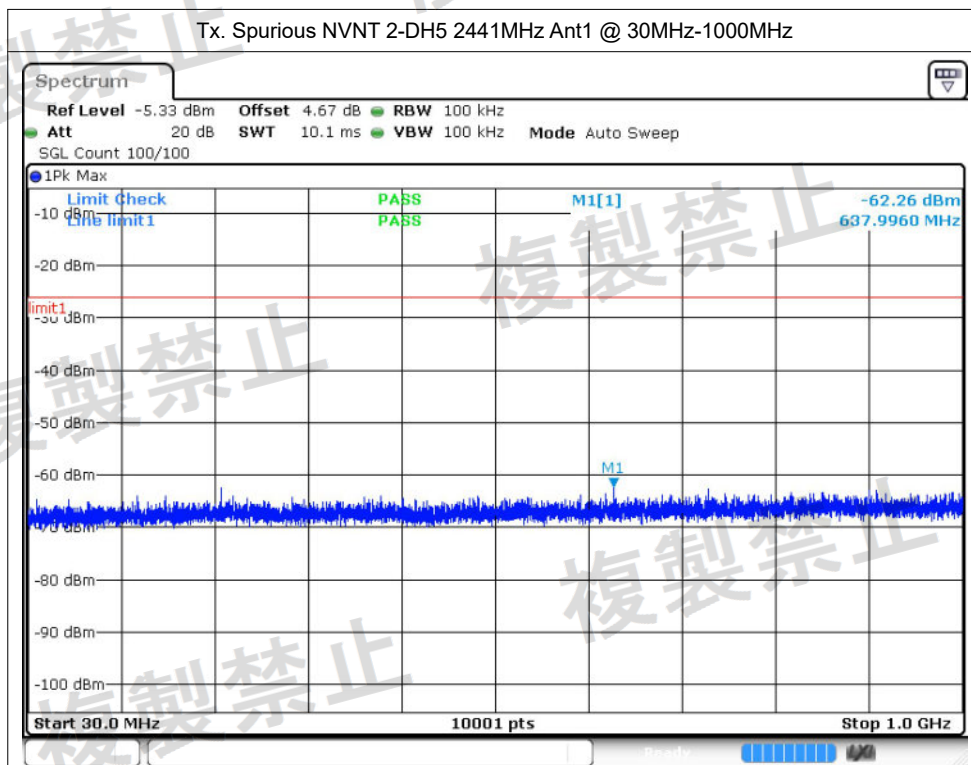


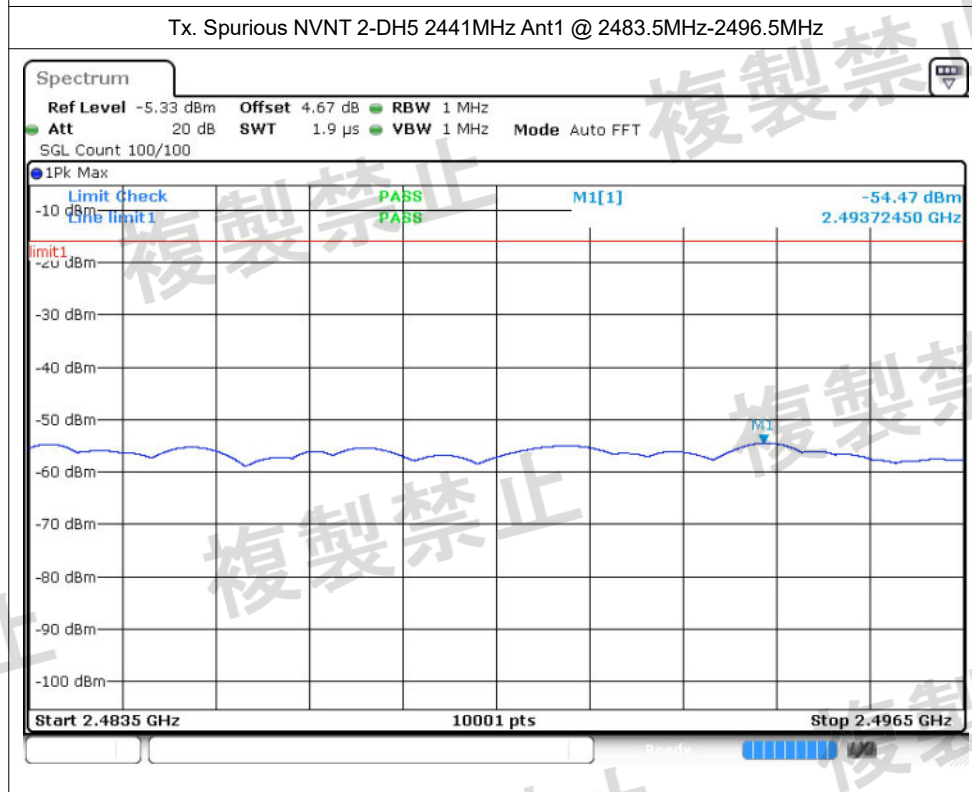
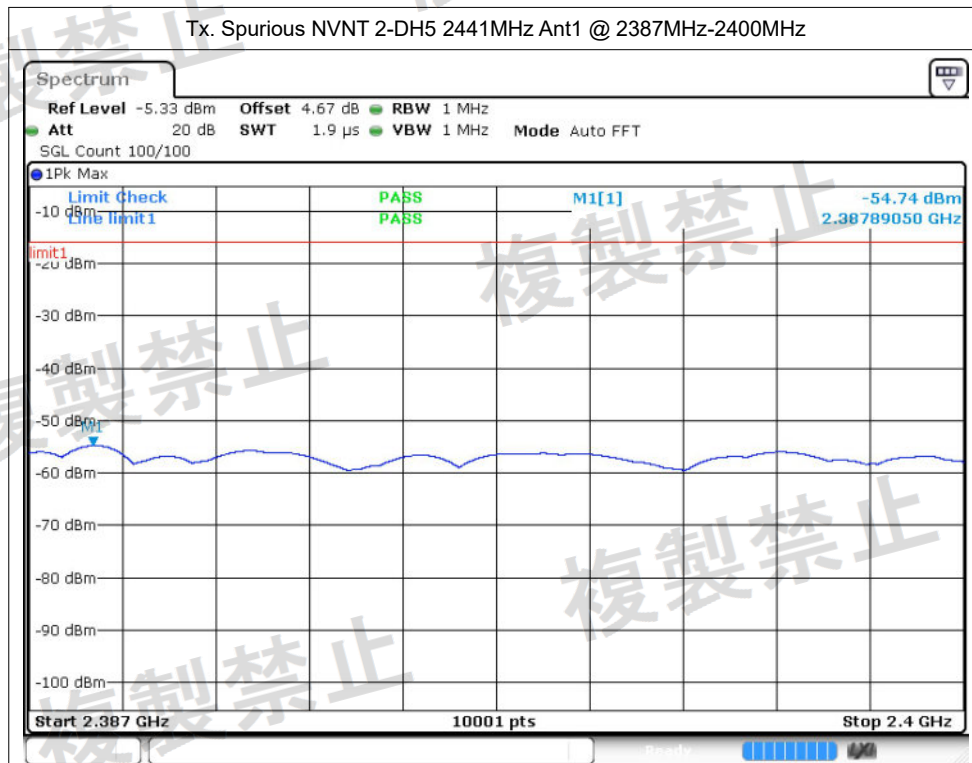


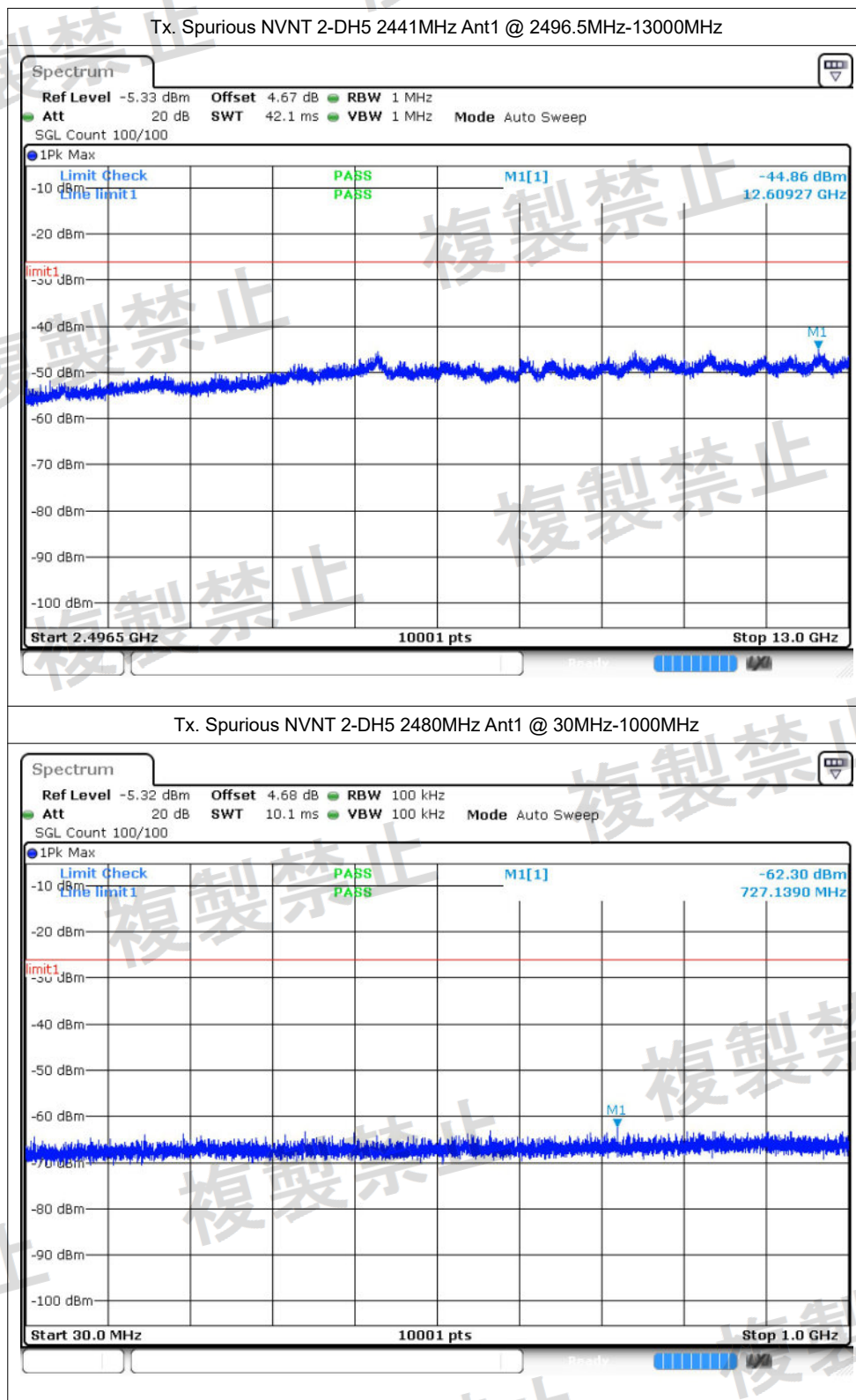


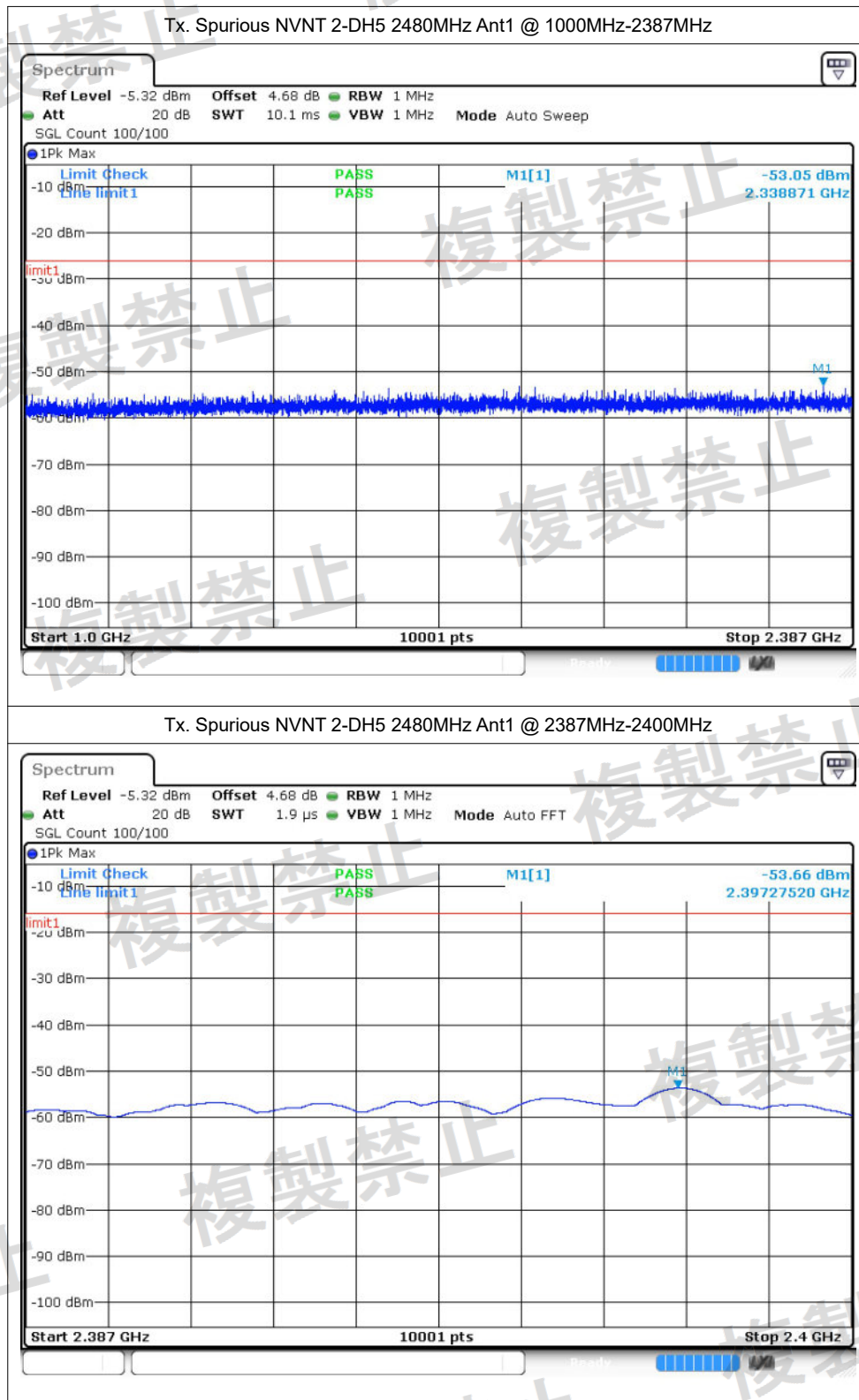


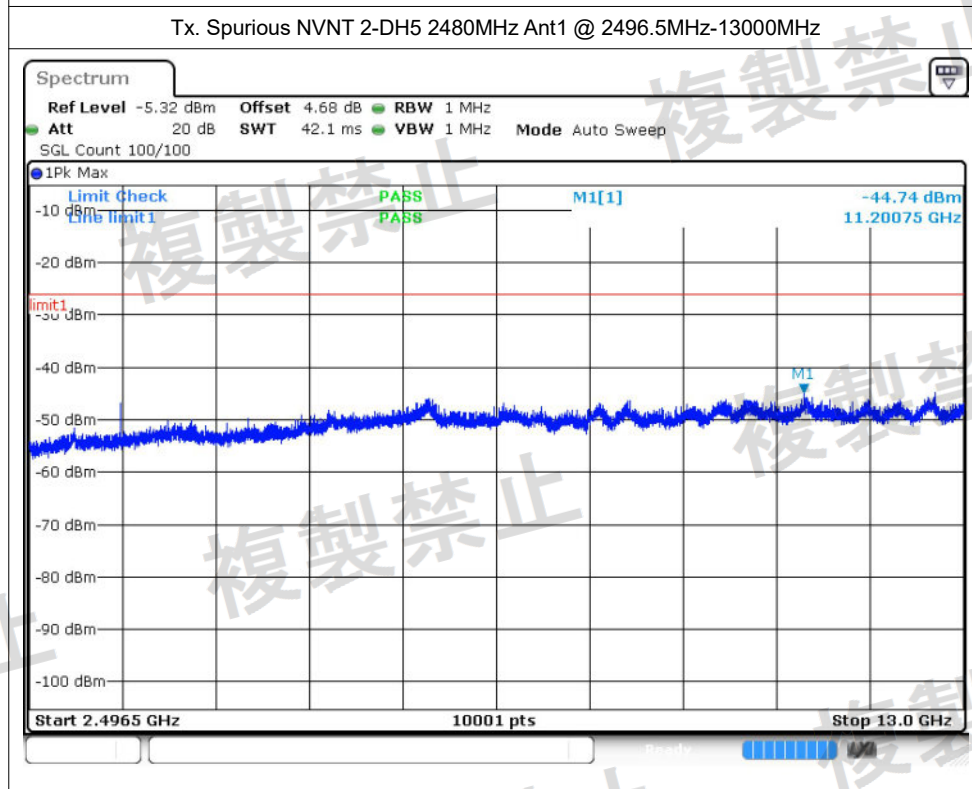
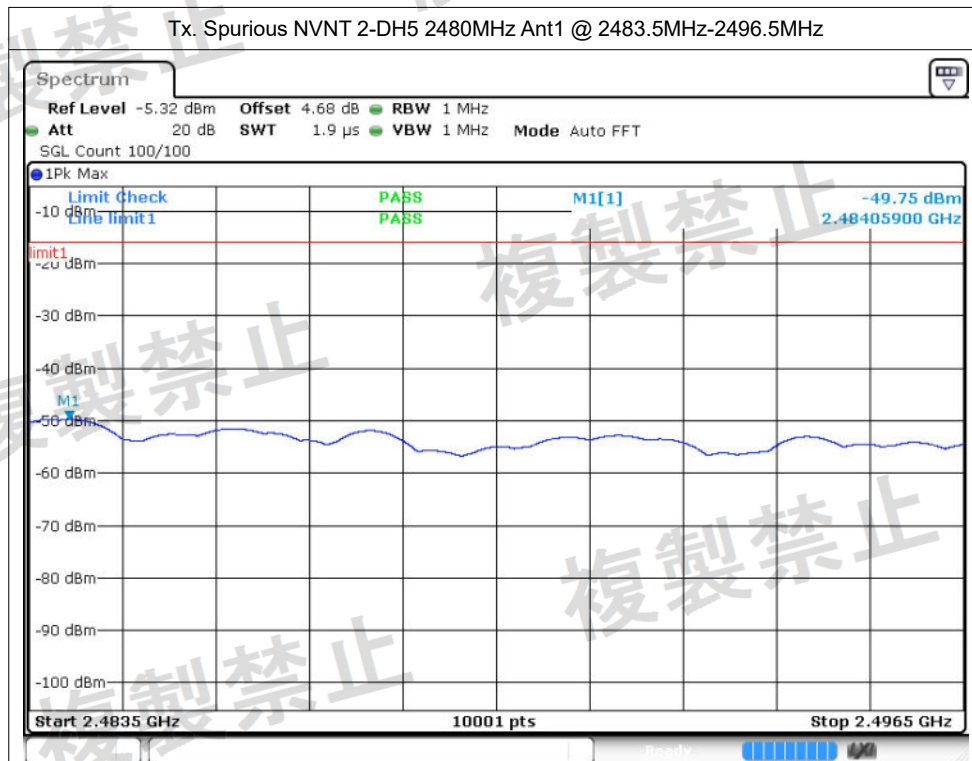


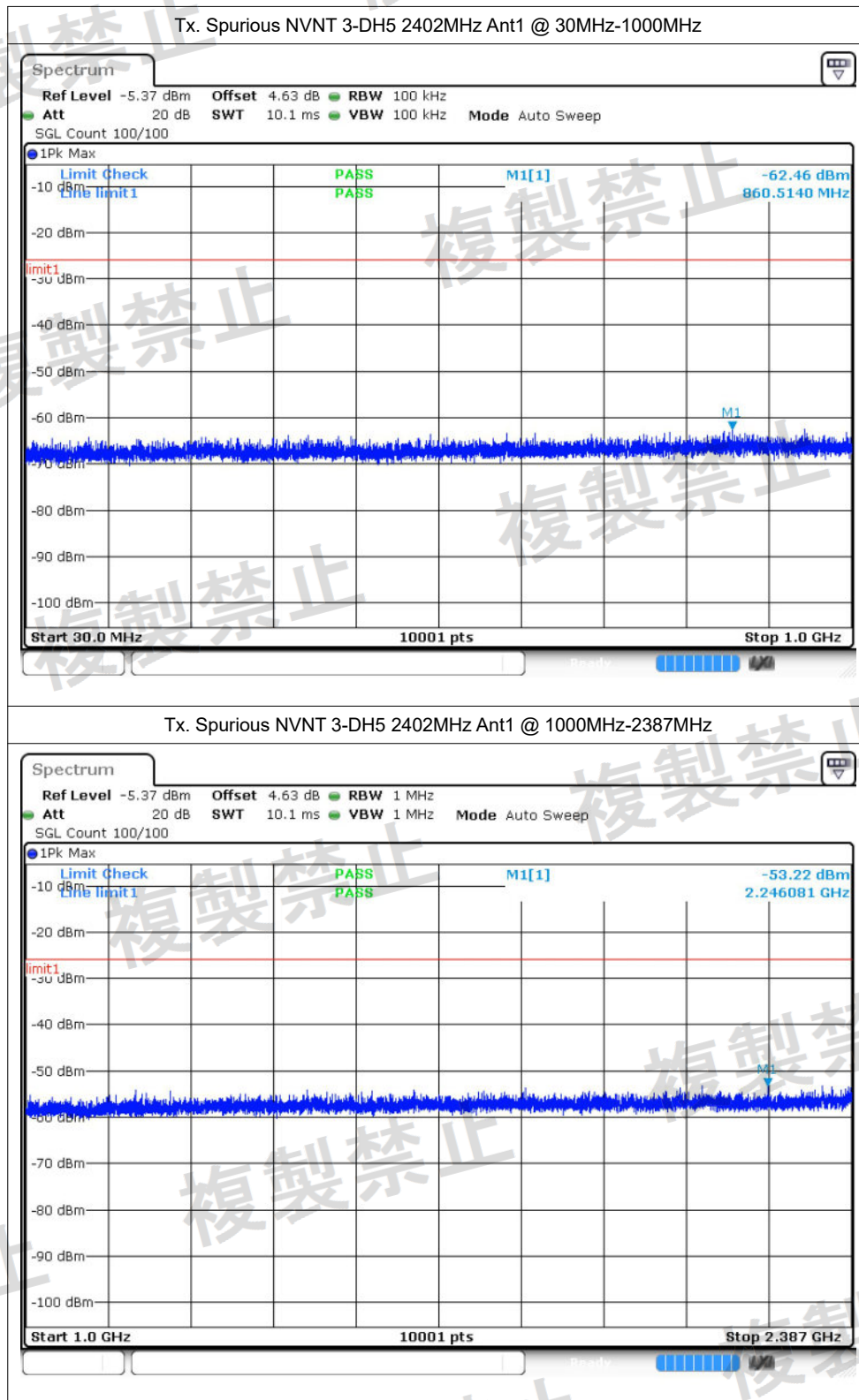


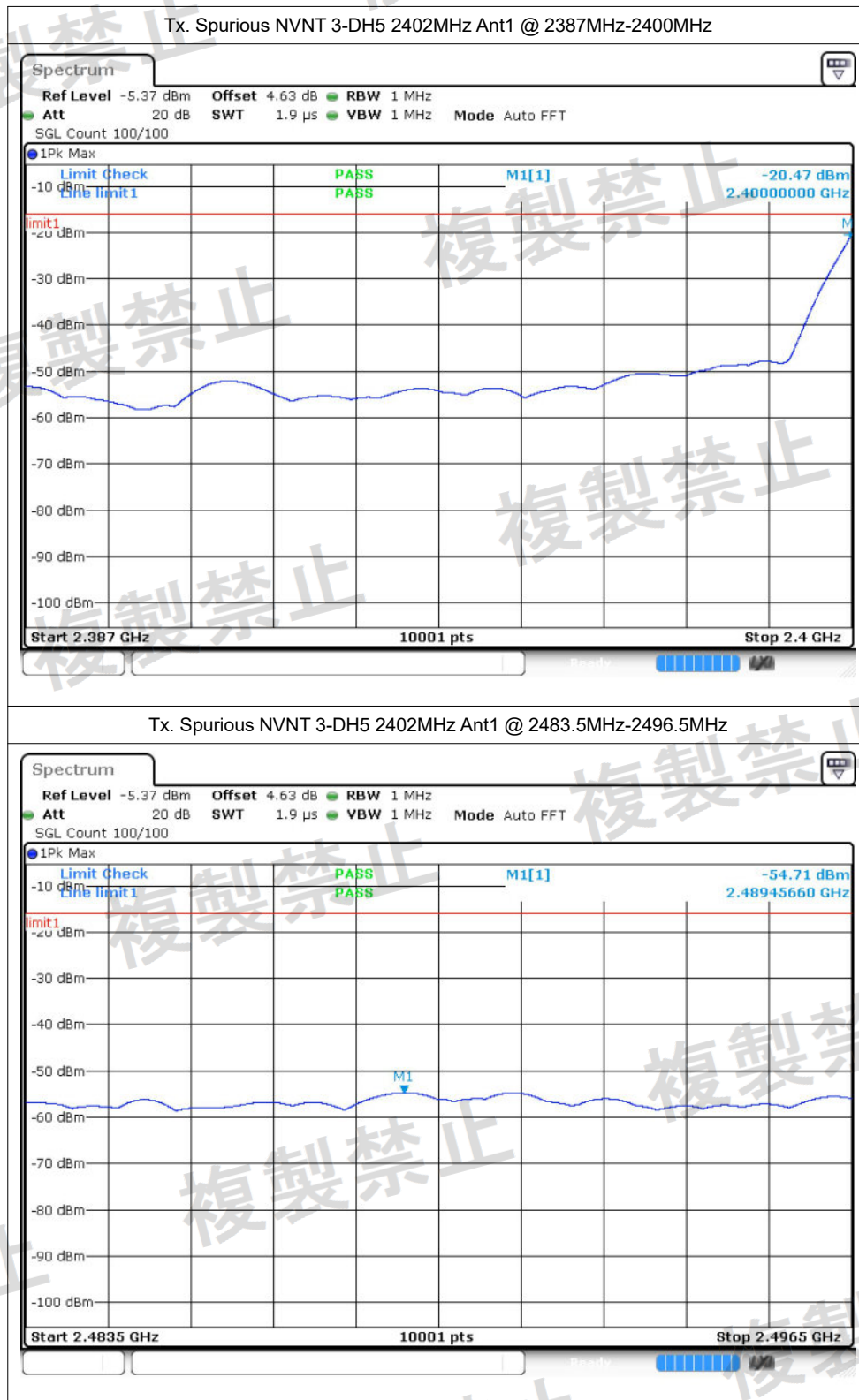


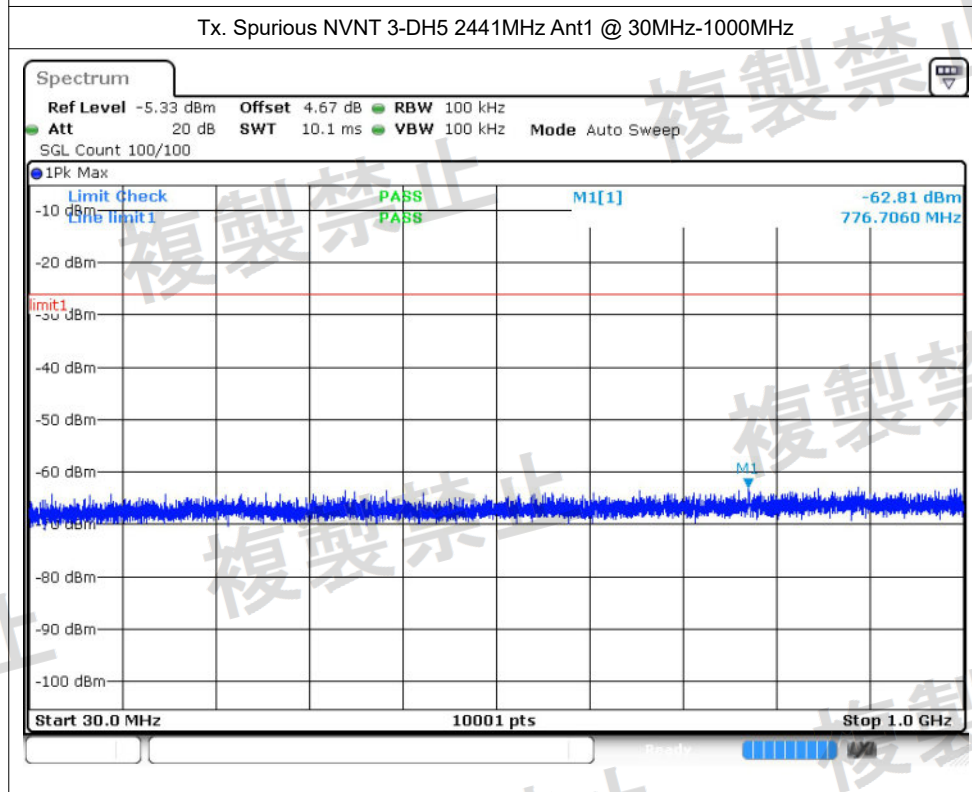
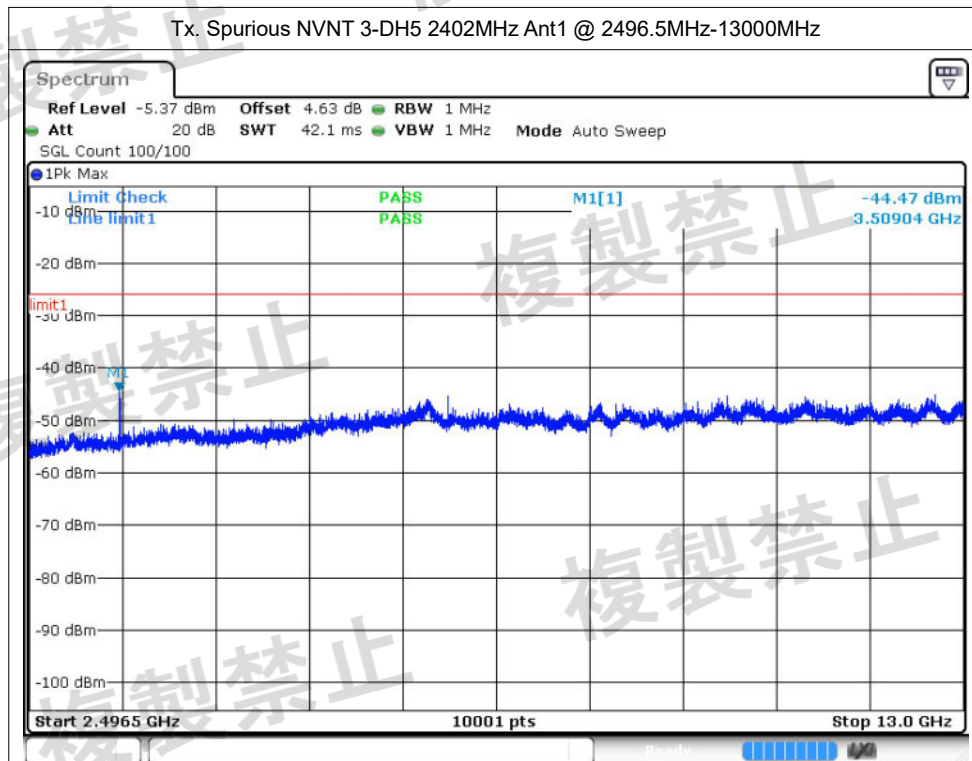


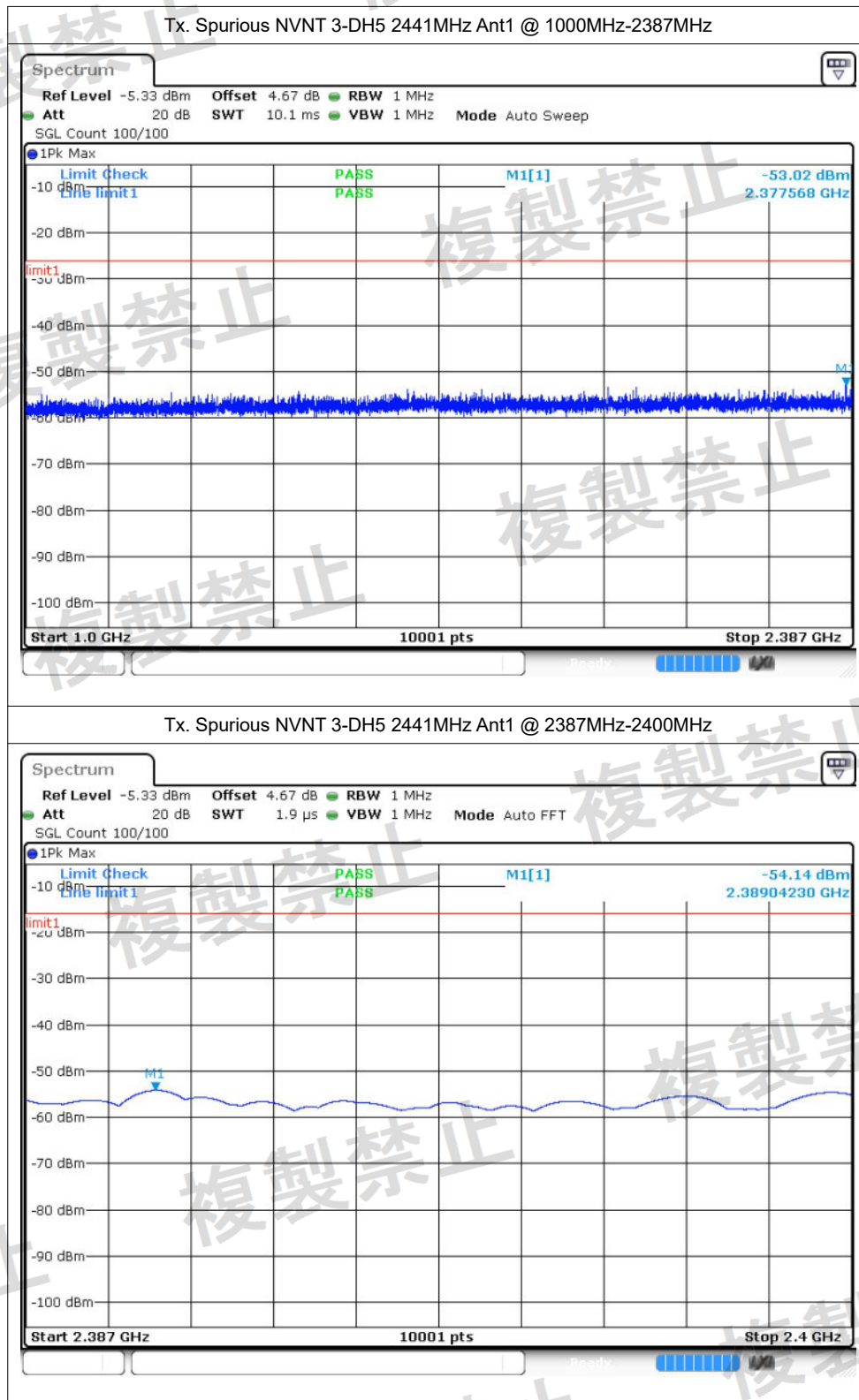


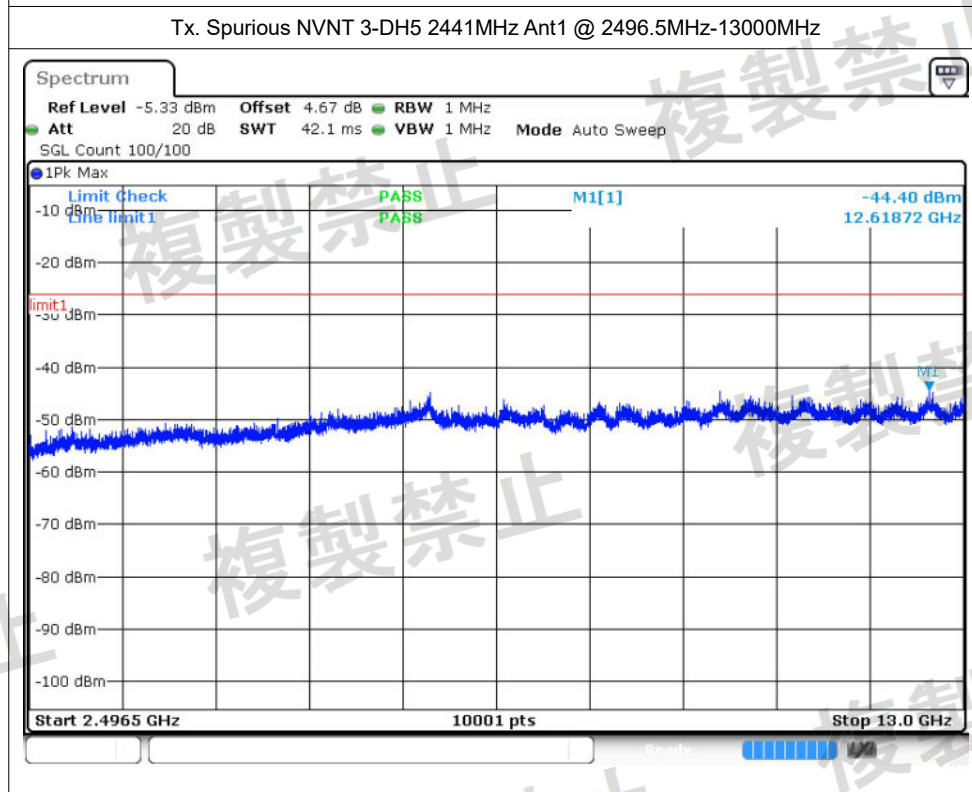
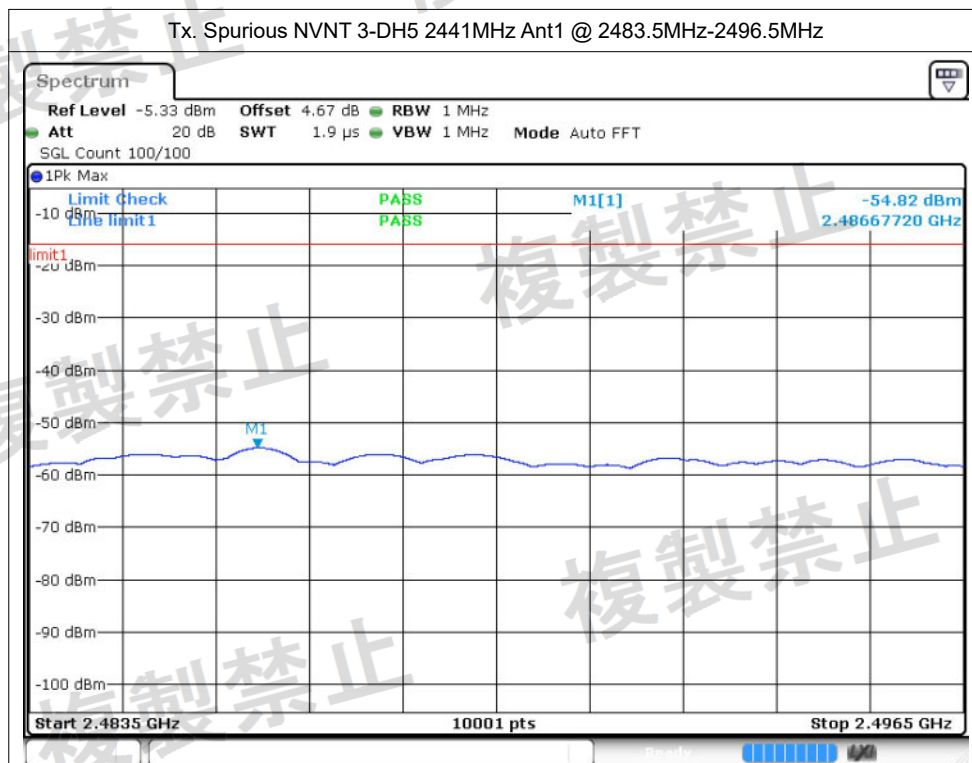


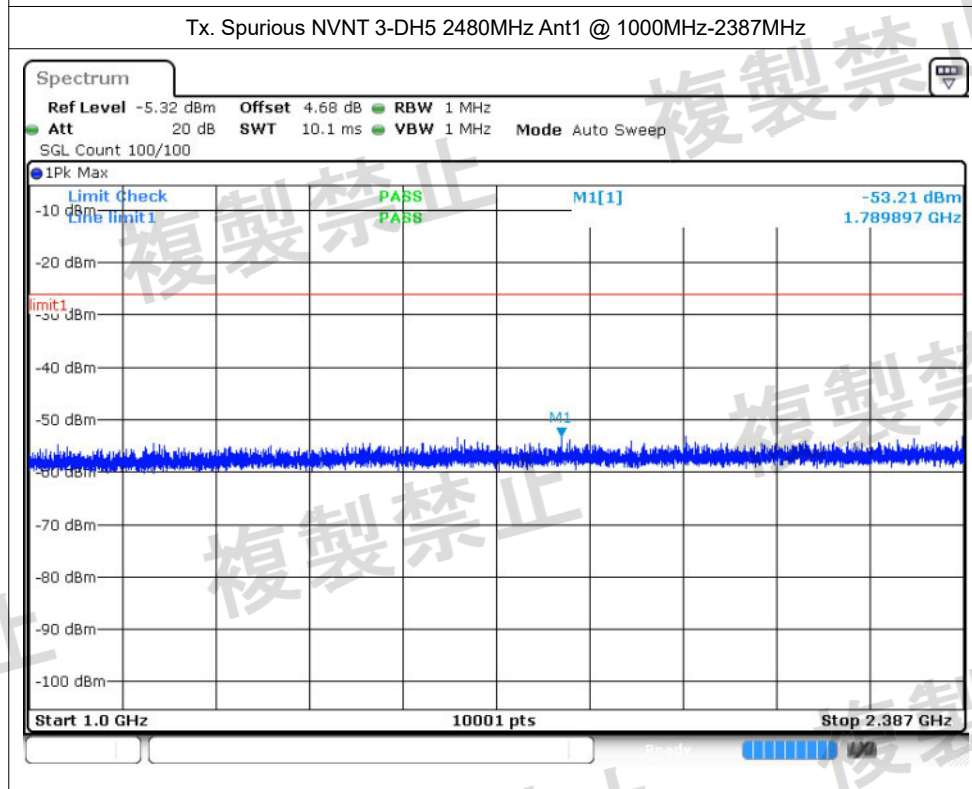
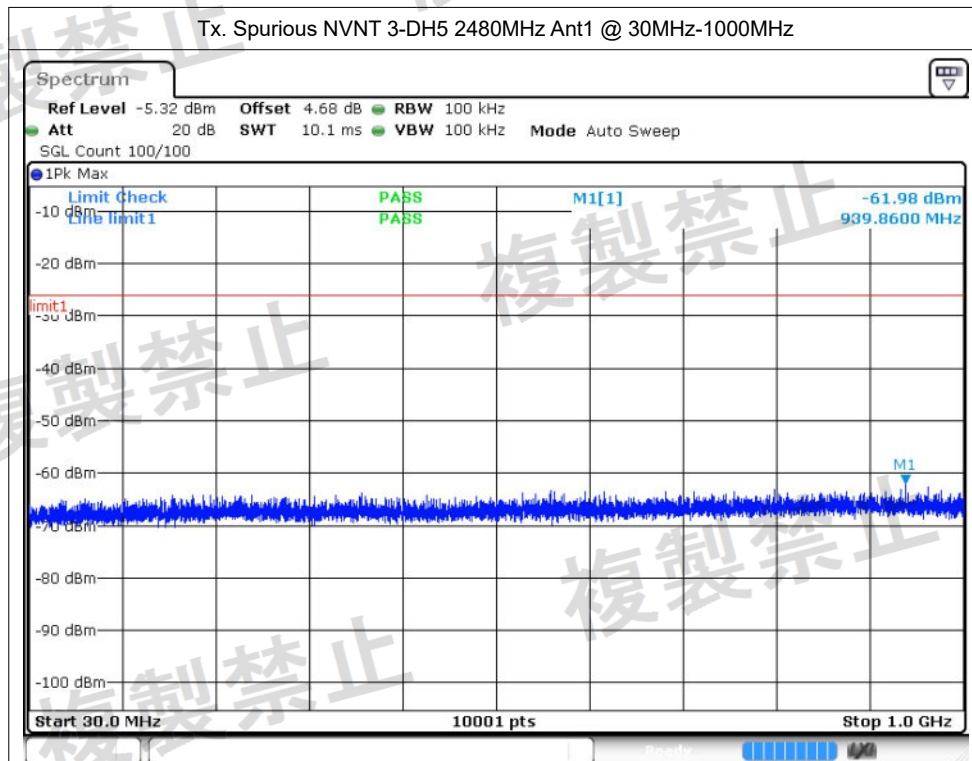


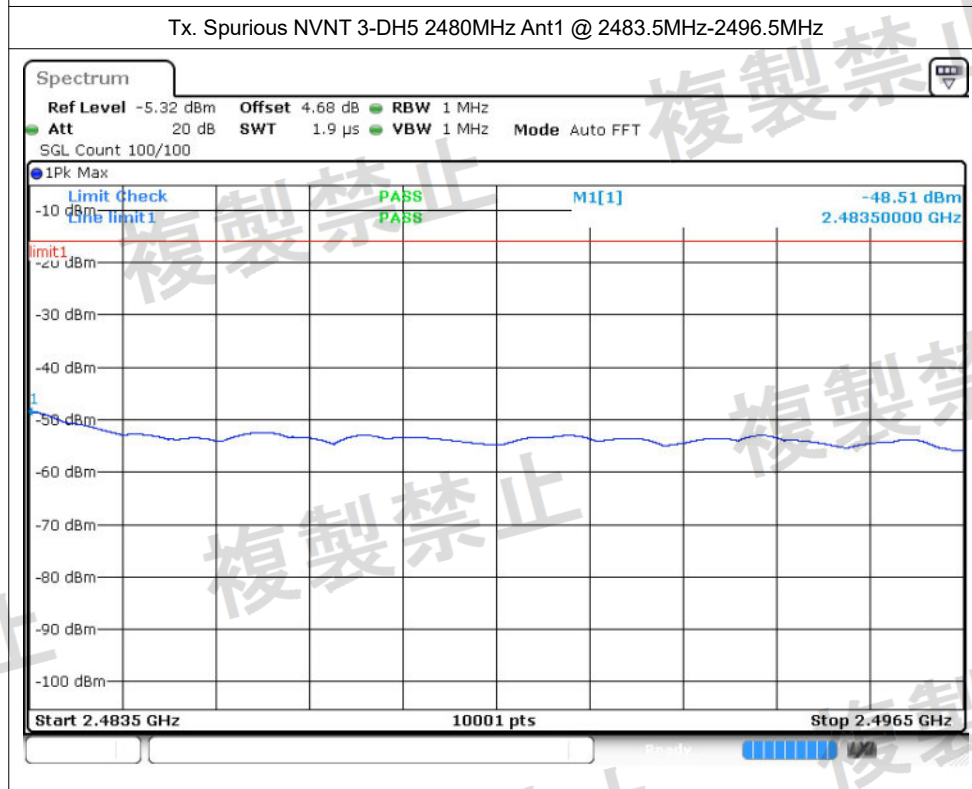
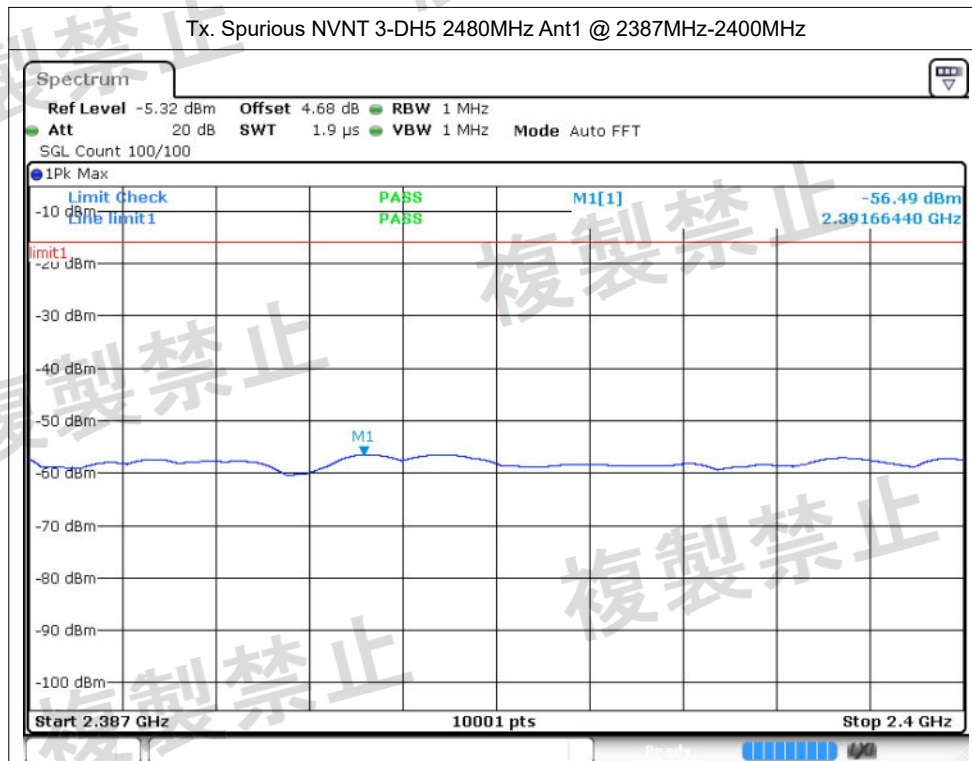


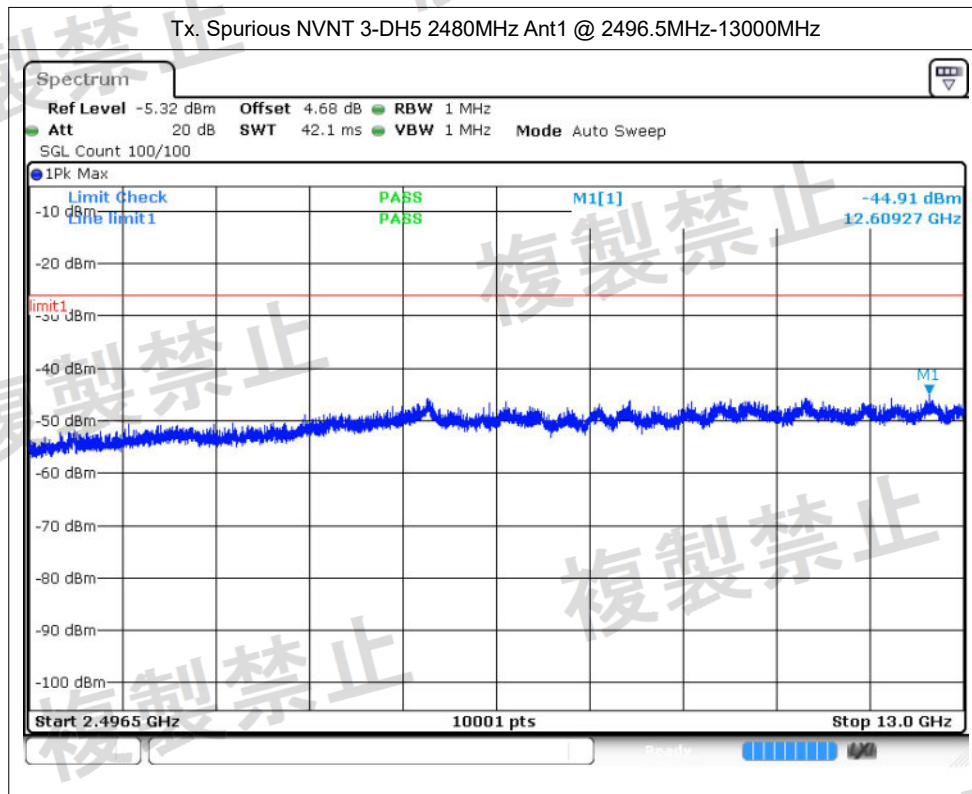








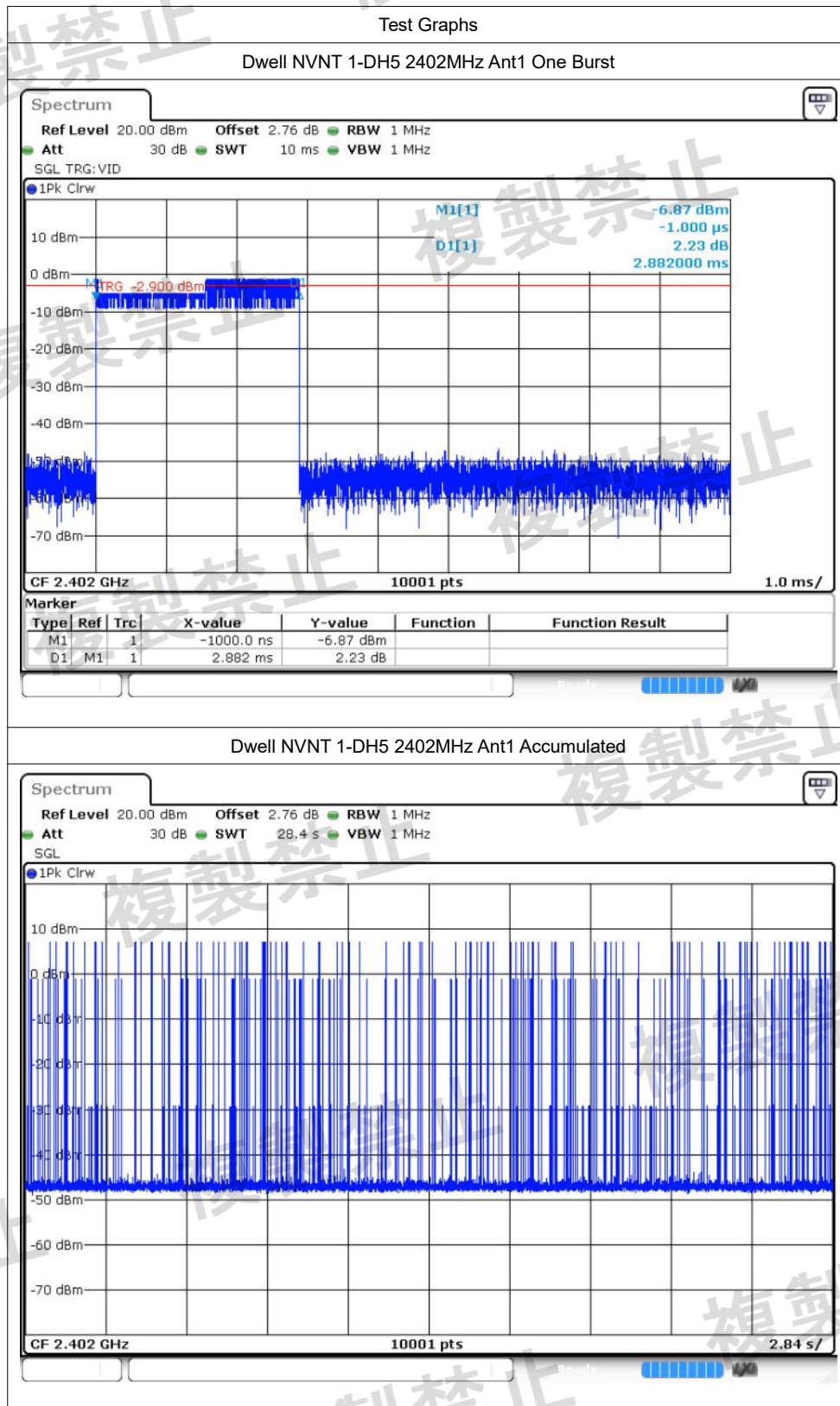


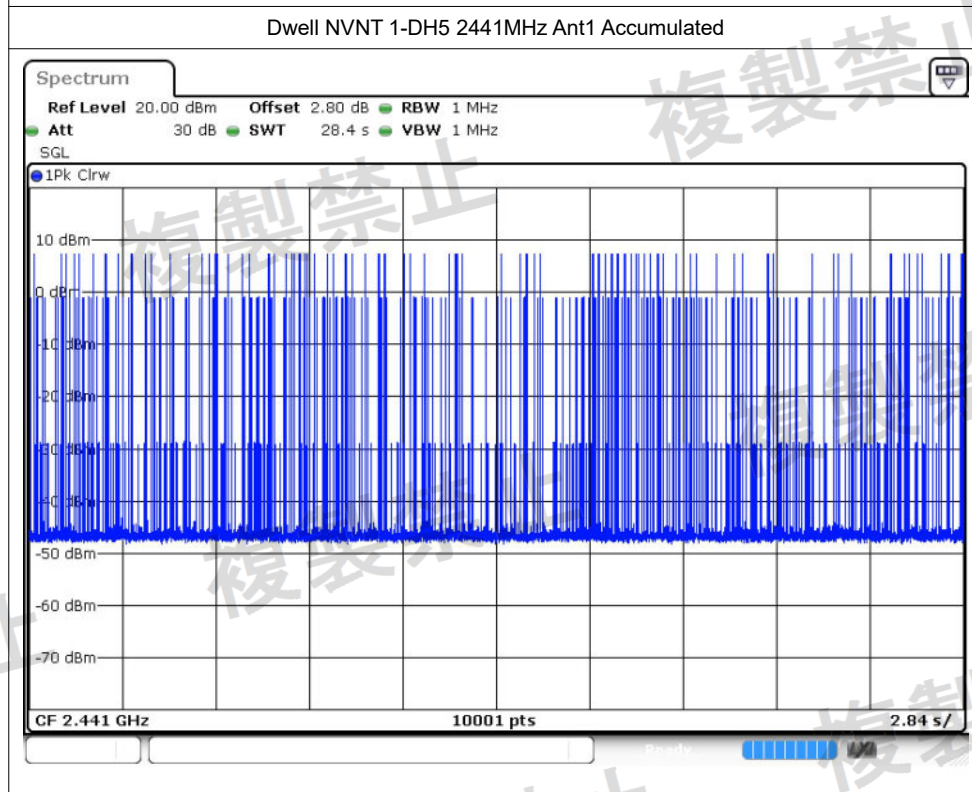
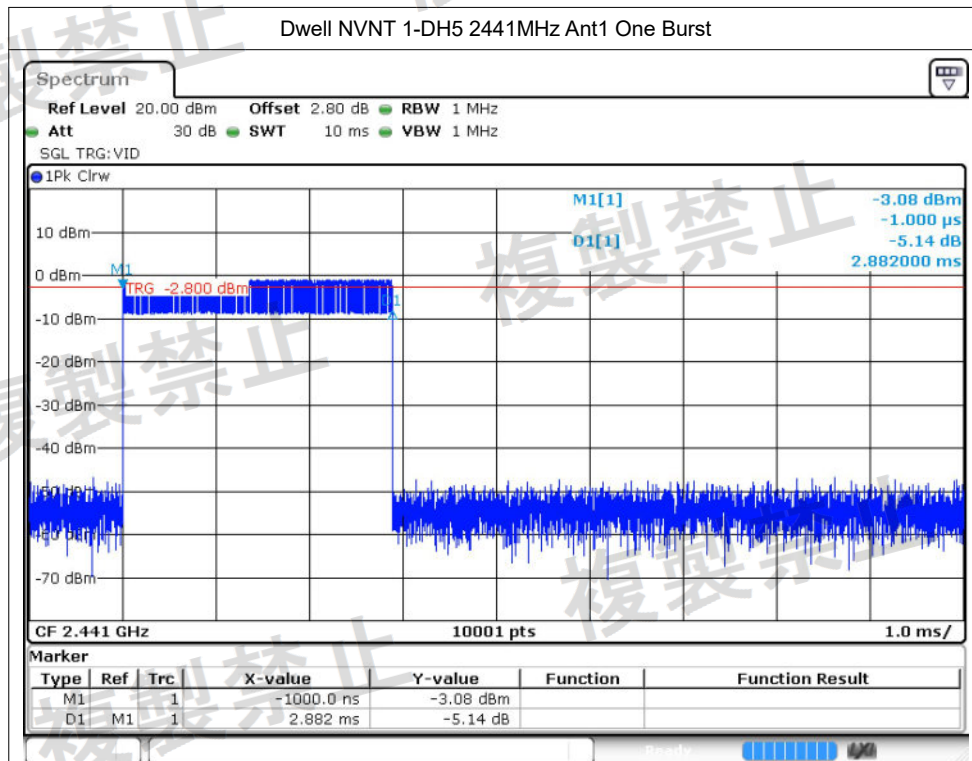


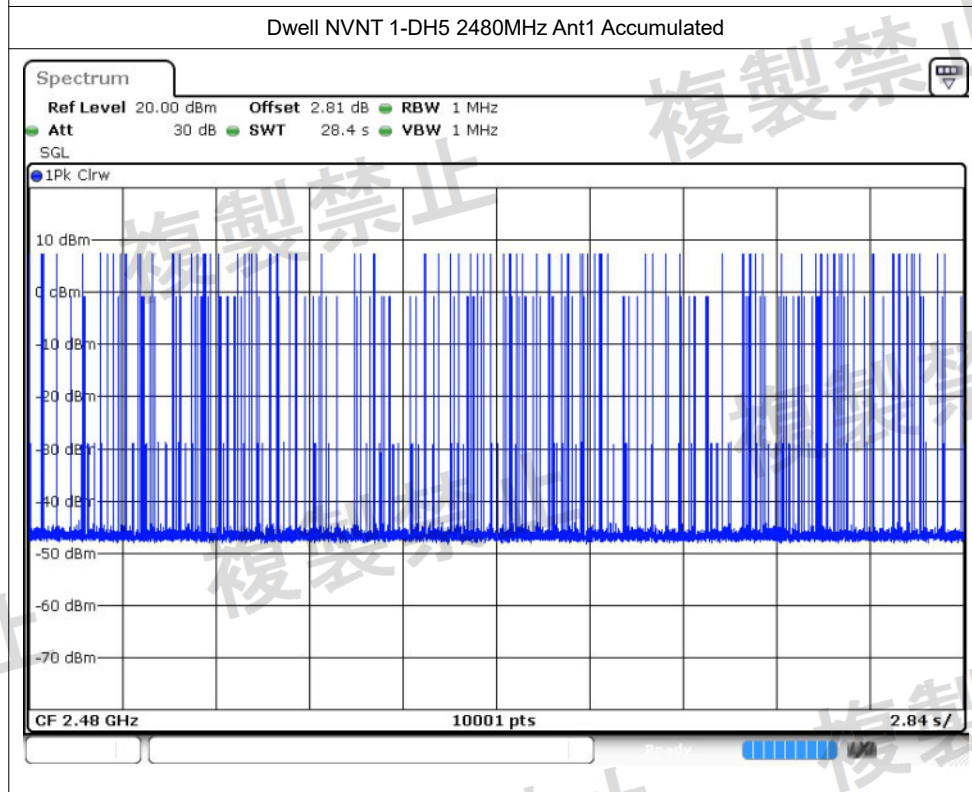
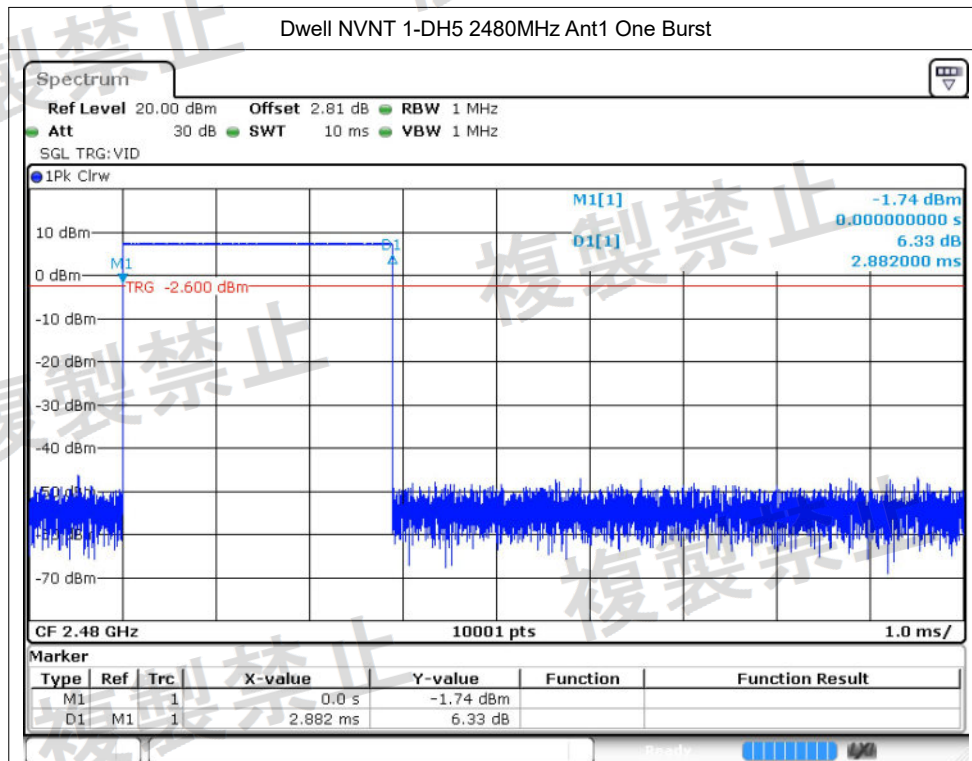


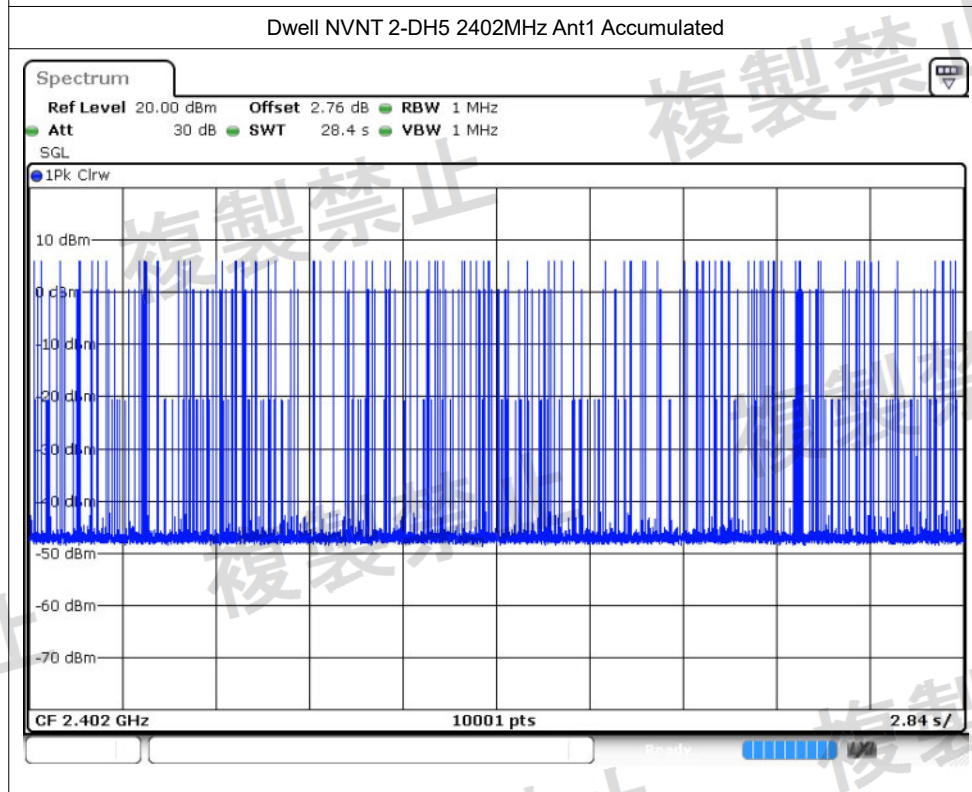
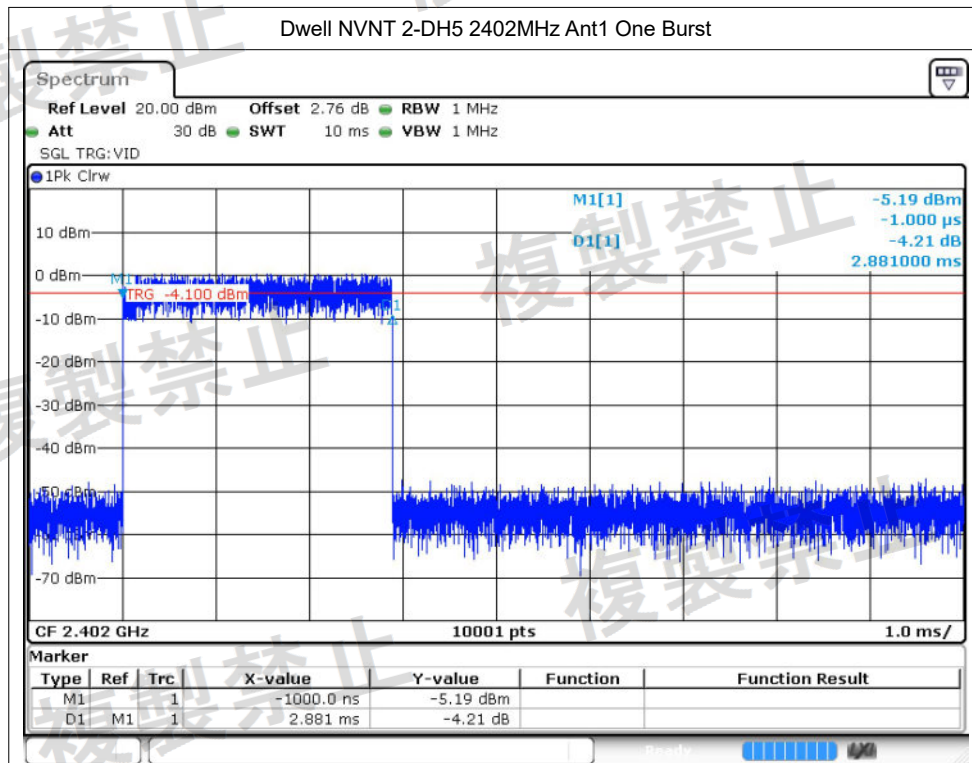
Dwell Time

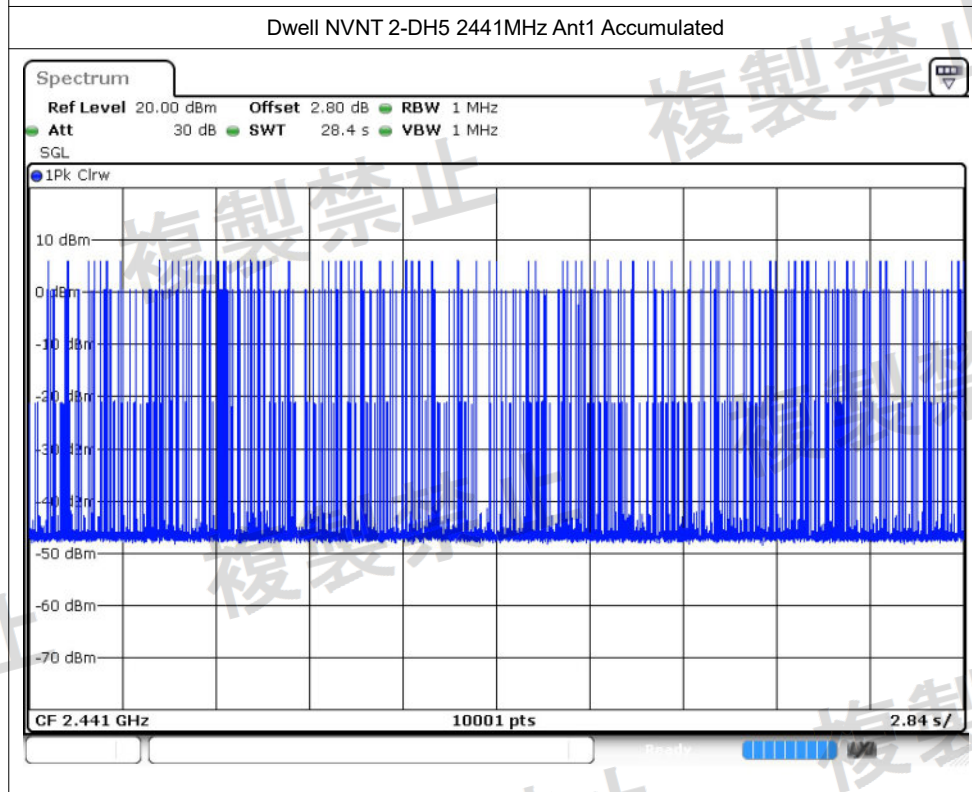
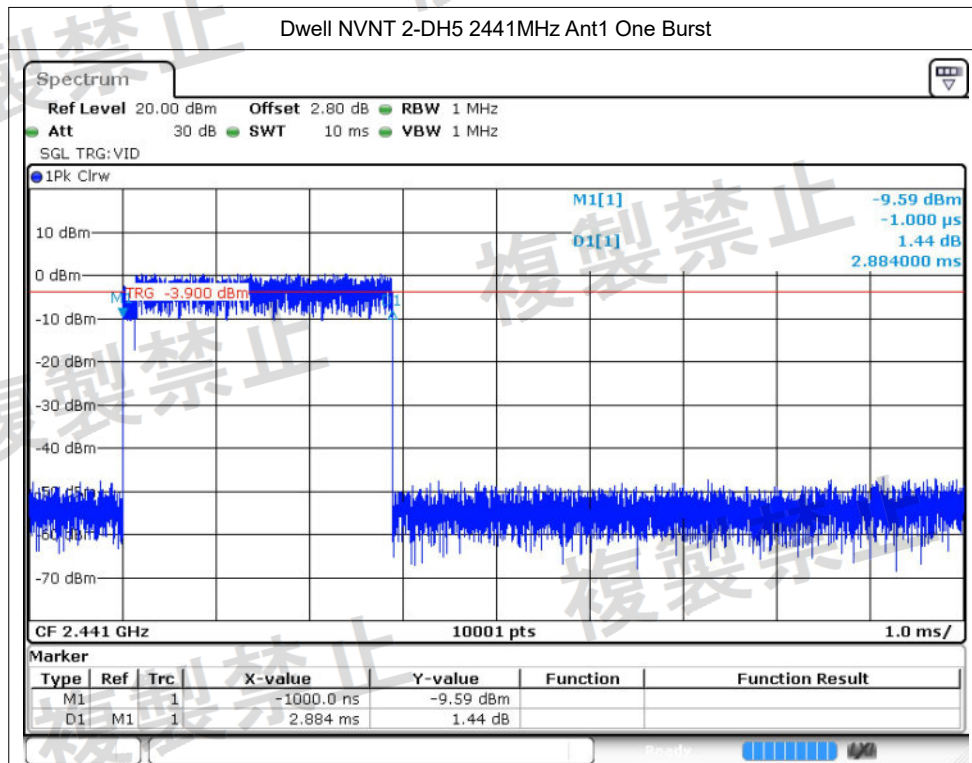
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (s)	Burst Count	Period Time (ms)	Limit (s)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	0.308374	107	28435.6	0.4	Pass
NVNT	1-DH5	2441	Ant1	2.882	0.279554	97	28435.6	0.4	Pass
NVNT	1-DH5	2480	Ant1	2.882	0.293964	102	28435.6	0.4	Pass
NVNT	2-DH5	2402	Ant1	2.881	0.279457	97	28435.6	0.4	Pass
NVNT	2-DH5	2441	Ant1	2.884	0.305704	106	28435.6	0.4	Pass
NVNT	2-DH5	2480	Ant1	2.885	0.2885	100	28435.6	0.4	Pass
NVNT	3-DH5	2402	Ant1	2.887	0.271378	94	28387.6	0.4	Pass
NVNT	3-DH5	2441	Ant1	2.888	0.268584	93	28387.6	0.4	Pass
NVNT	3-DH5	2480	Ant1	2.887	0.311796	108	28387.6	0.4	Pass

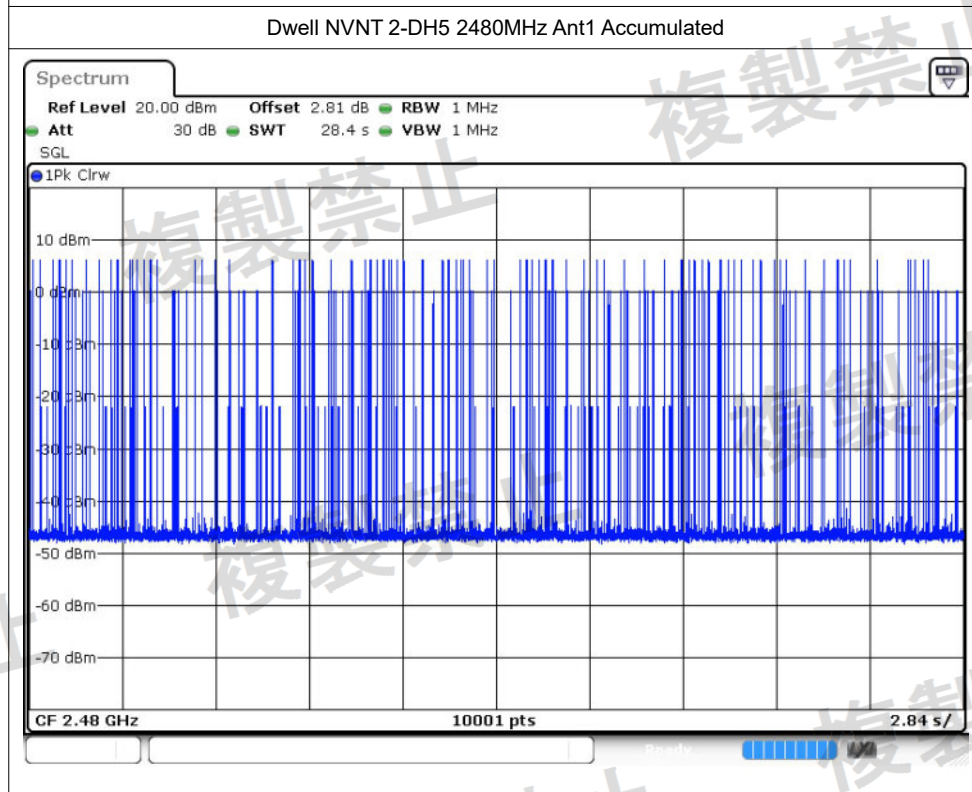
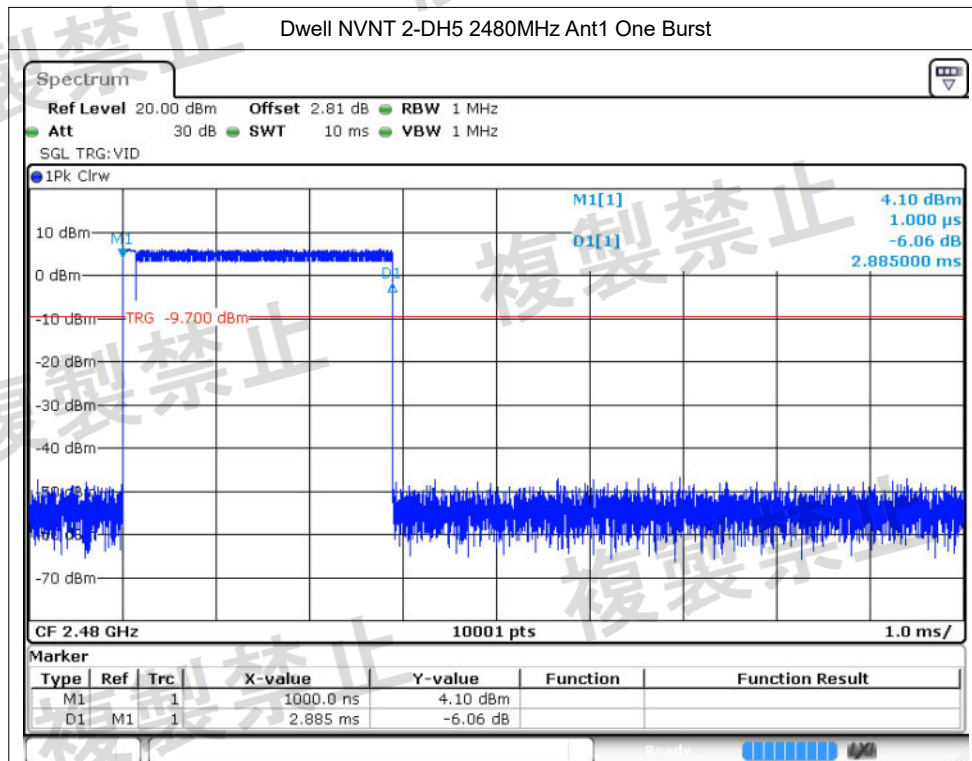


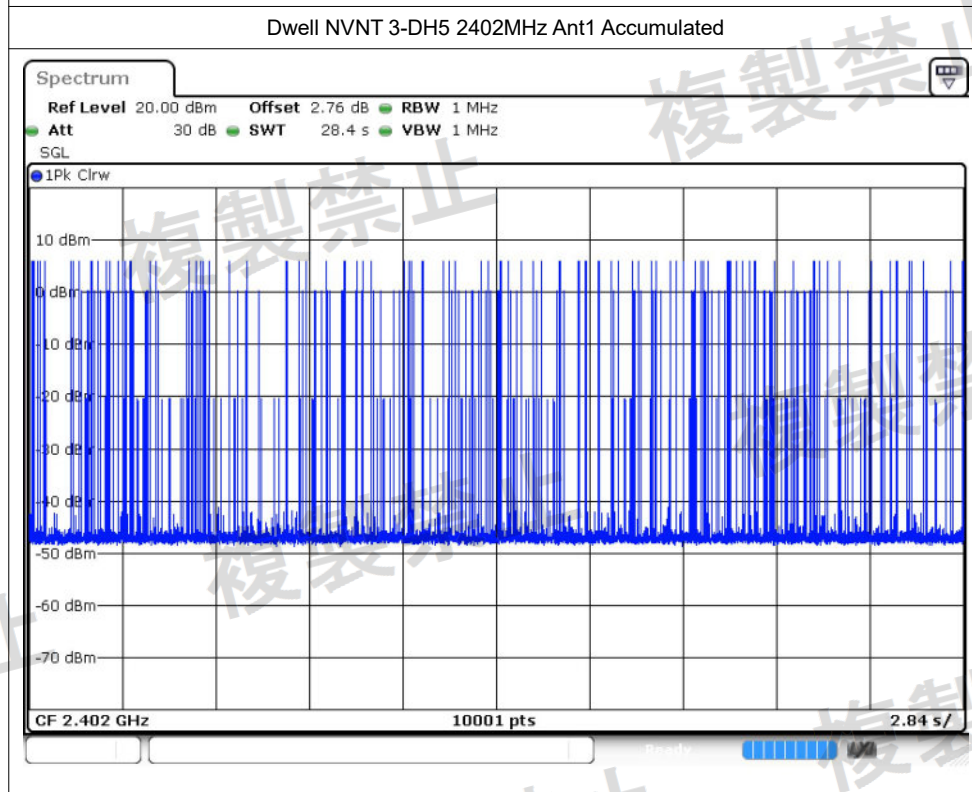
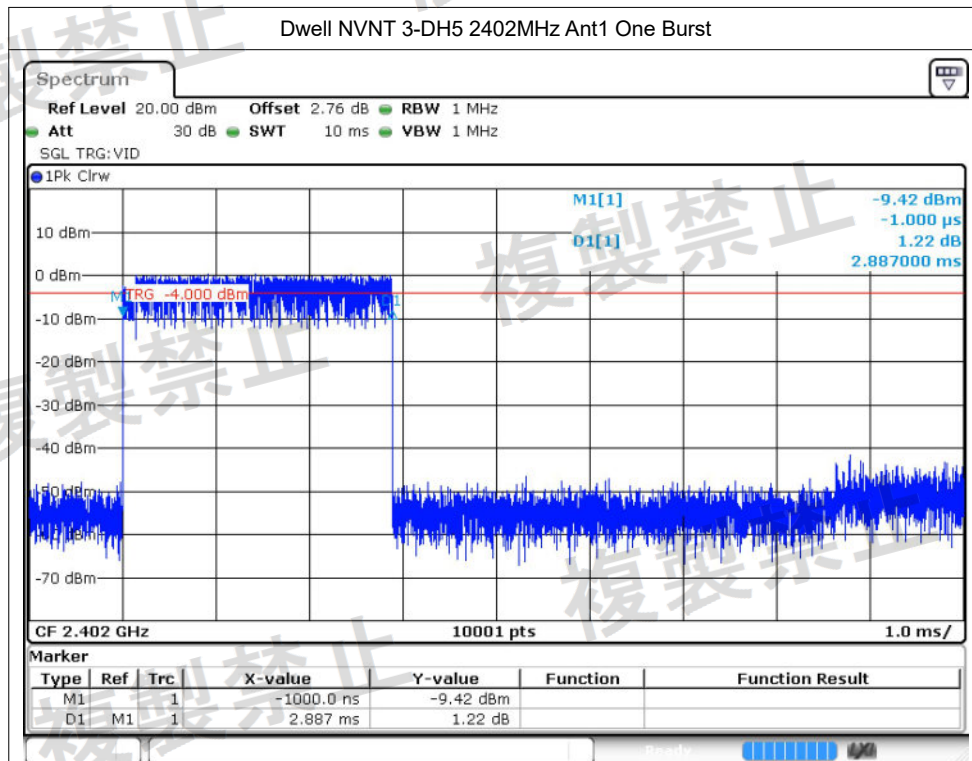


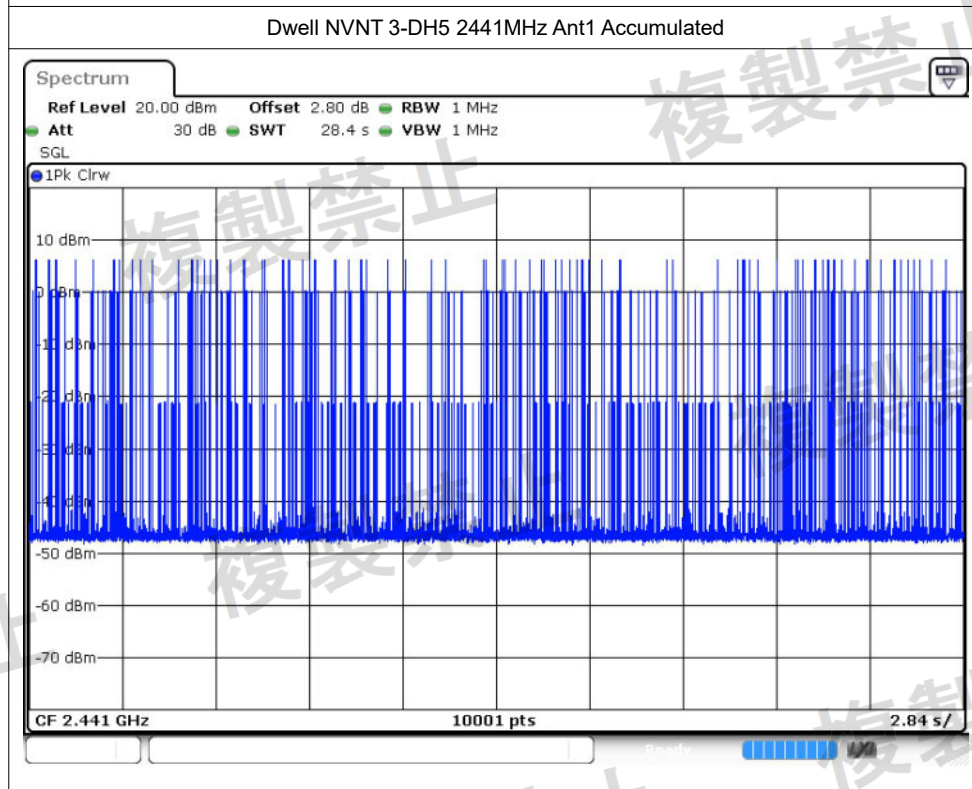
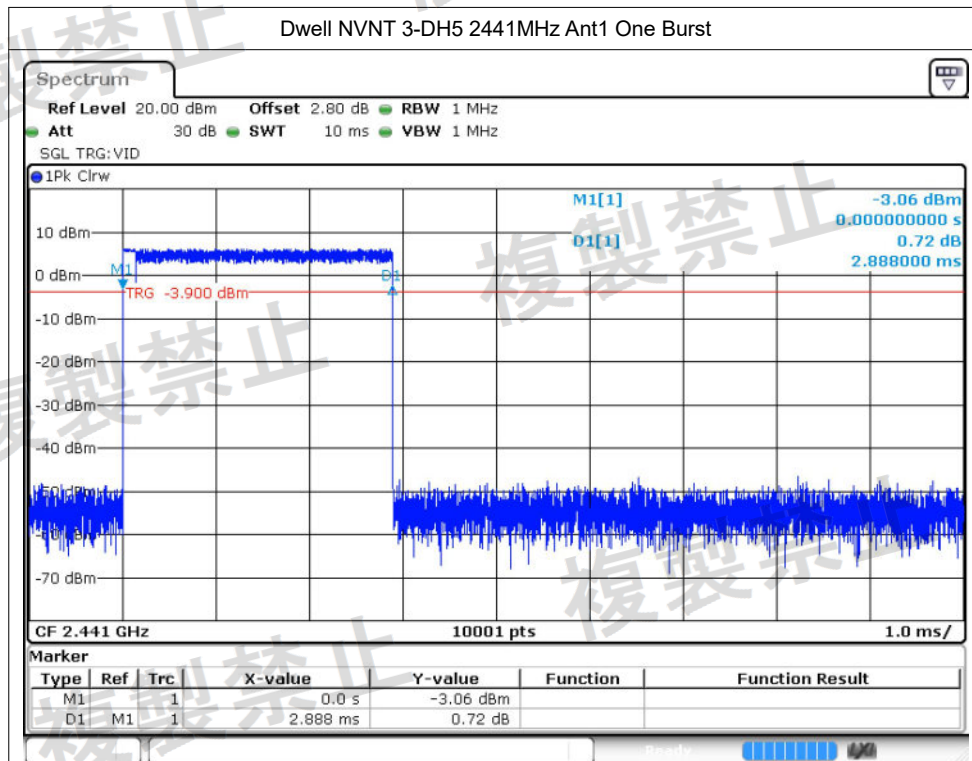


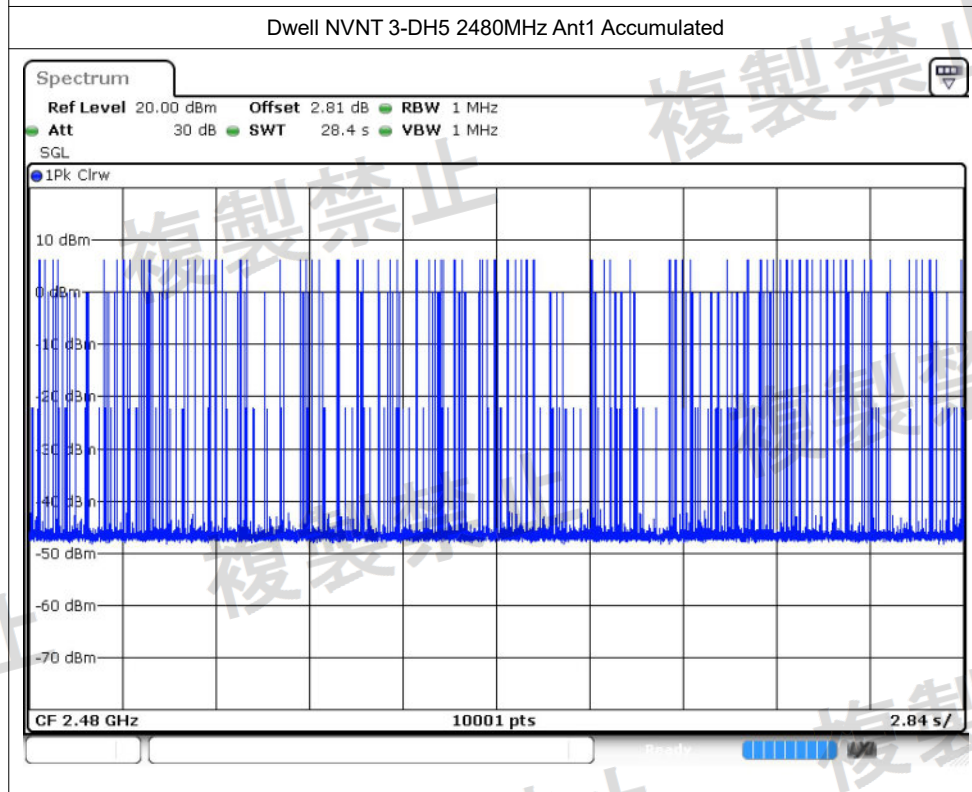
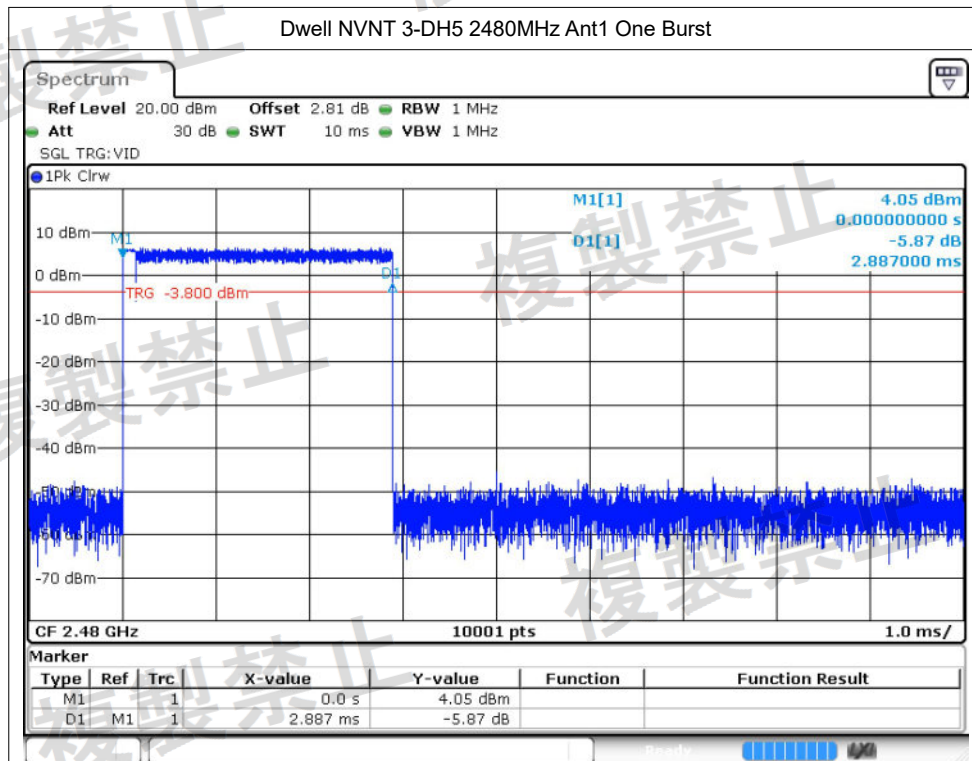










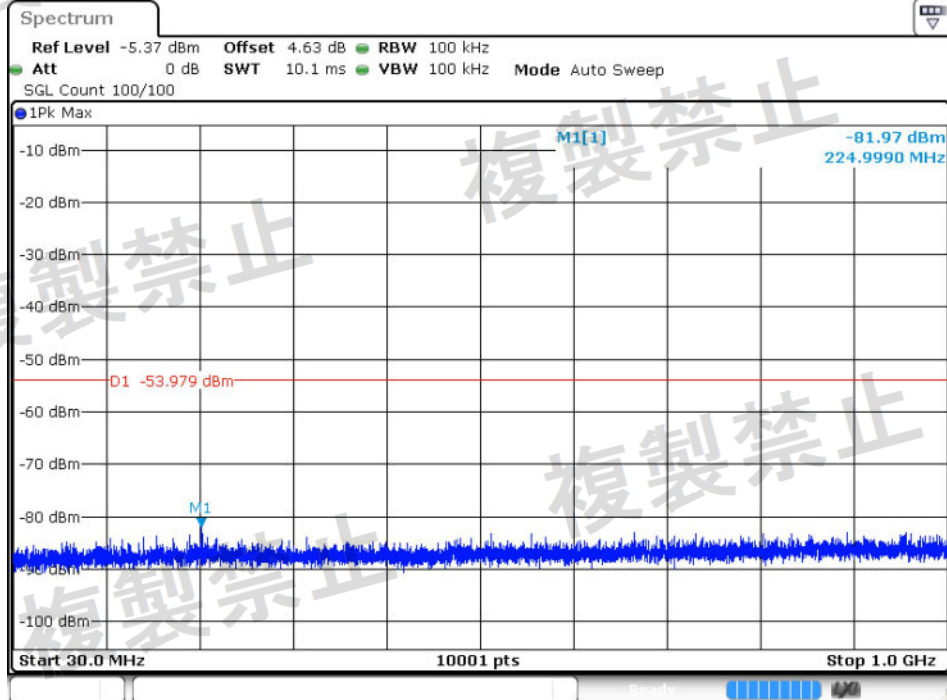


Rx Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (nW)	Max RMS Value (nW)	Limit (nW)	Verdict
NVNT	1-DH5	2402	Ant1	30-1000	225.00	-81.97	NA	0.0064	NA	4	Pass
NVNT	1-DH5	2402	Ant1	1000-13000	12584.20	-65.45	NA	0.2851	NA	20	Pass
NVNT	2-DH5	2402	Ant1	30-1000	225.00	-82.48	NA	0.0056	NA	4	Pass
NVNT	2-DH5	2402	Ant1	1000-13000	12601.00	-64.68	NA	0.3404	NA	20	Pass
NVNT	3-DH5	2402	Ant1	30-1000	225.00	-81.77	NA	0.0067	NA	4	Pass
NVNT	3-DH5	2402	Ant1	1000-13000	12595.00	-65.67	NA	0.271	NA	20	Pass

Test Graphs

Rx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 1000MHz-13000MHz

