

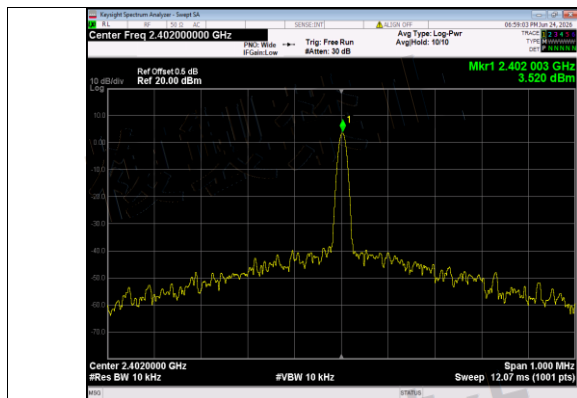
Appendix A: Test Results

Content

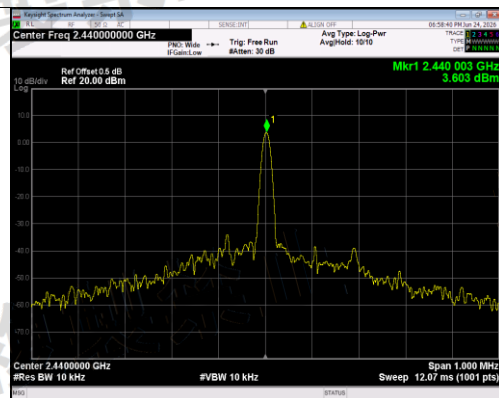
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Frequency Error

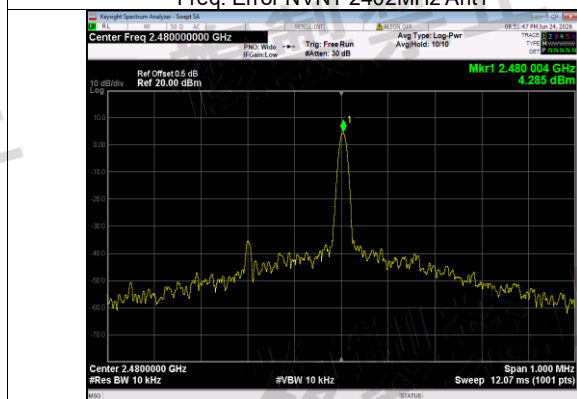
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	N/A	2402	Ant1	2402.003	3000	1.25	50	Pass
NVNT	N/A	2440	Ant1	2440.003	3000	1.23	50	Pass
NVNT	N/A	2480	Ant1	2480.004	4000	1.61	50	Pass



Freq. Error NVNT 2402MHz Ant1



Freq. Error NVNT 2440MHz Ant1



Freq. Error NVNT 2480MHz Ant1

Antenna Power

Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Power (mW)	Limit (mW)	Declared Power (mW)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	BLE 1M	2402	Ant1	3.7	2.344	10	4	-41.4	20	Pass
NVNT	BLE 1M	2440	Ant1	4.02	2.523	10	4	-36.92	20	Pass
NVNT	BLE 1M	2480	Ant1	4.21	2.636	10	4	-34.1	20	Pass
NVNT	BLE 2M	2402	Ant1	3.97	2.495	10	4	-37.63	20	Pass
NVNT	BLE 2M	2440	Ant1	3.94	2.477	10	4	-38.08	20	Pass
NVNT	BLE 2M	2480	Ant1	4.11	2.576	10	4	-35.6	20	Pass

EIRP Power

Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW)	Antenna Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	2.344	3.7	-0.98	2.72	12.14	Pass
NVNT	BLE 1M	2440	Ant1	2.523	4.02	-0.98	3.04	12.14	Pass
NVNT	BLE 1M	2480	Ant1	2.636	4.21	-0.98	3.23	12.14	Pass
NVNT	BLE 2M	2402	Ant1	2.495	3.97	-0.98	2.99	12.14	Pass
NVNT	BLE 2M	2440	Ant1	2.477	3.94	-0.98	2.96	12.14	Pass
NVNT	BLE 2M	2480	Ant1	2.576	4.11	-0.98	3.13	12.14	Pass

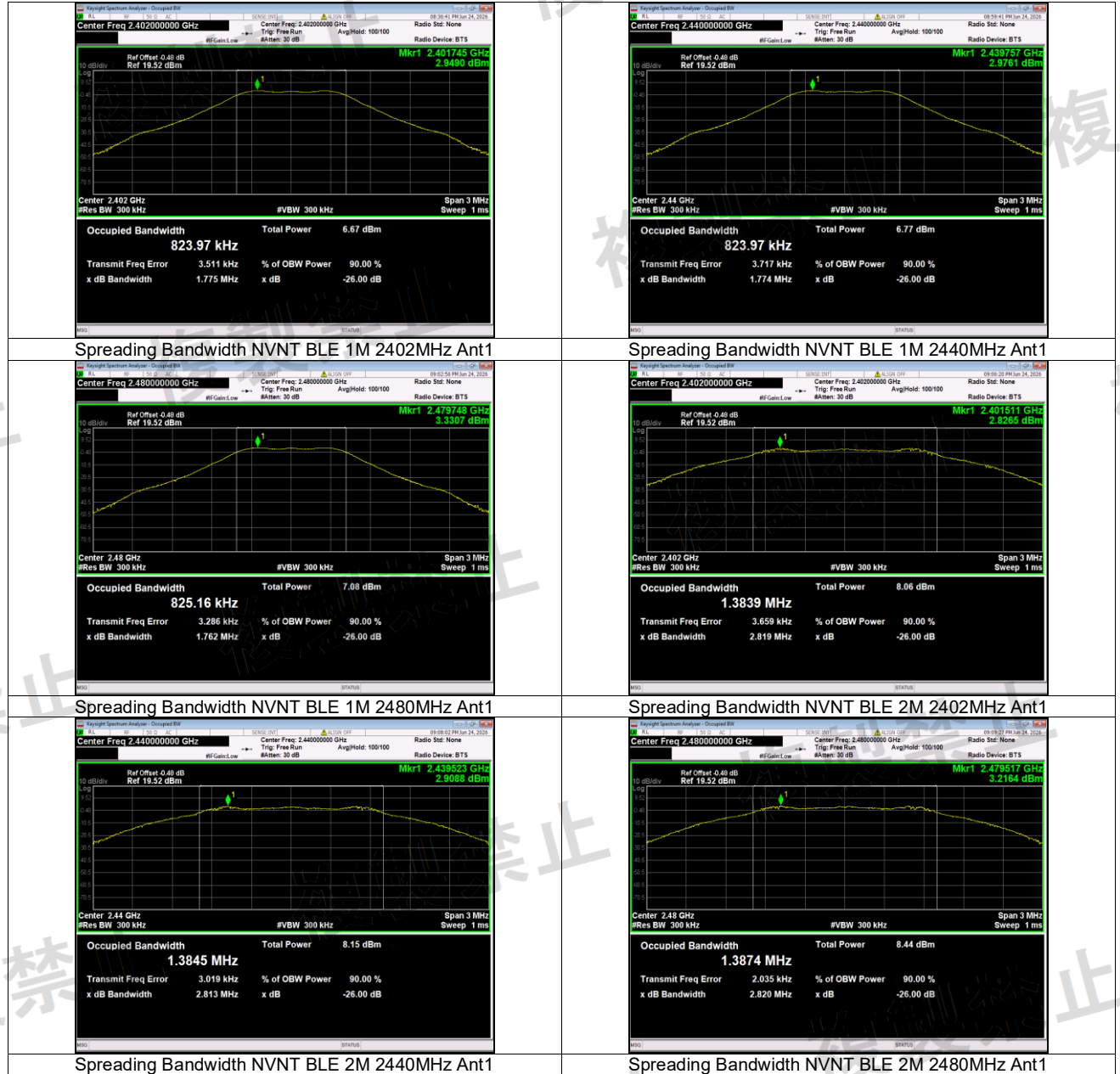
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.2271
NVNT	BLE 1M	2440	Ant1	1.229
NVNT	BLE 1M	2480	Ant1	1.2275
NVNT	BLE 2M	2402	Ant1	2.1381
NVNT	BLE 2M	2440	Ant1	2.1421
NVNT	BLE 2M	2480	Ant1	2.1437



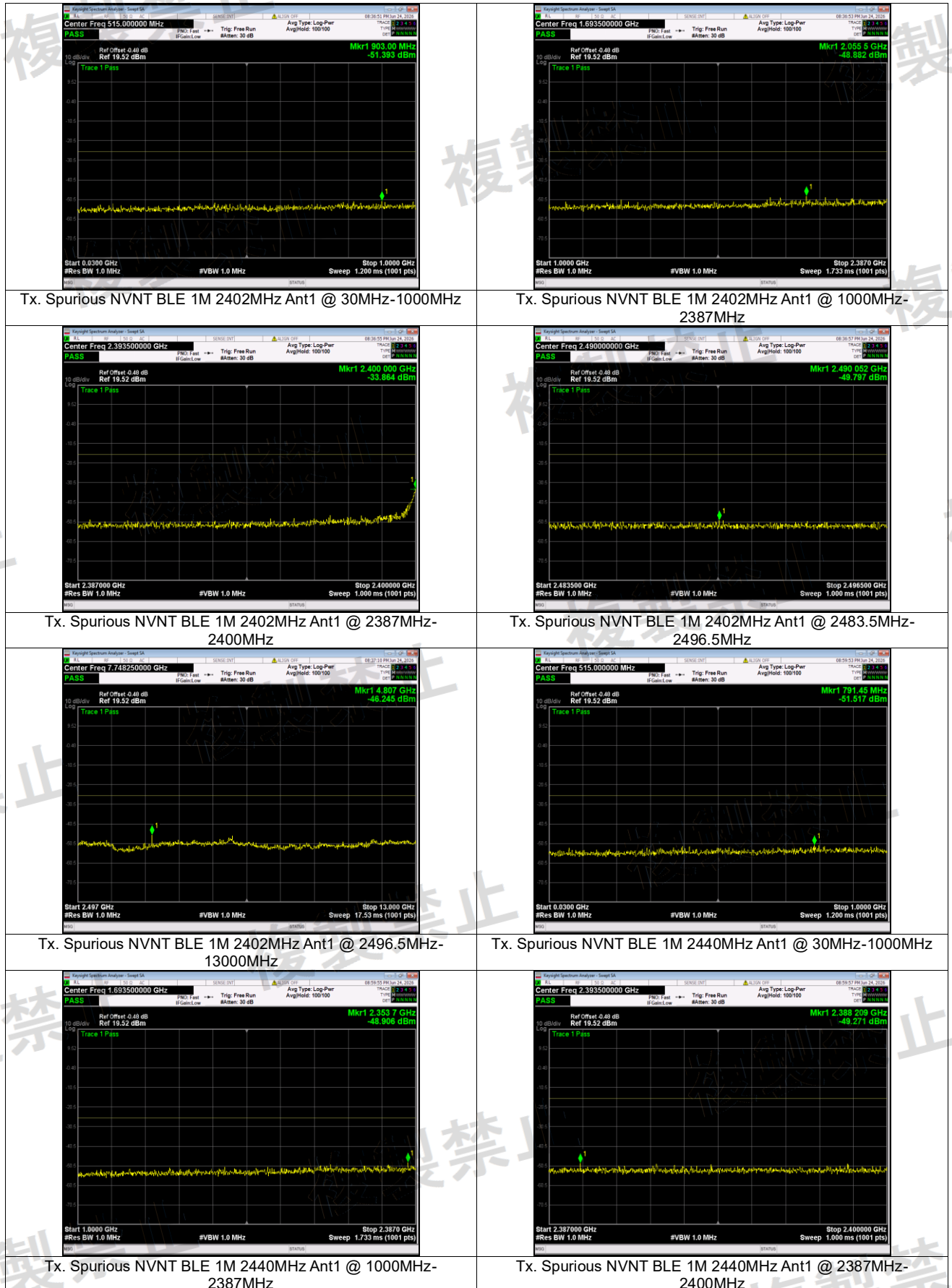
Spreading Bandwidth

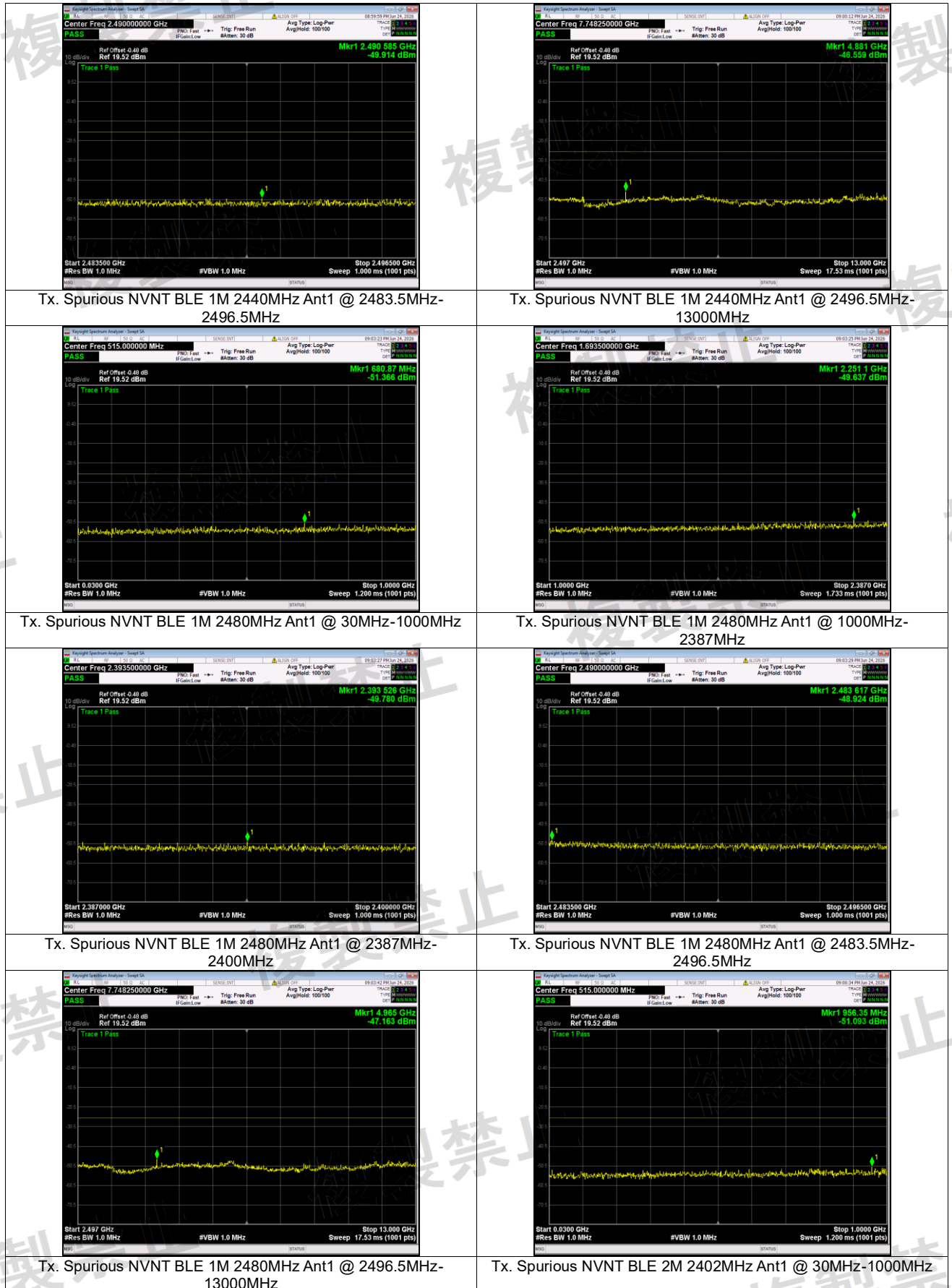
Condition	Mode	Frequency (MHz)	Antenna	90% OBW (MHz)	Limit (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.82397	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.82397	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.82516	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.3839	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.3845	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.3874	0.5	Pass

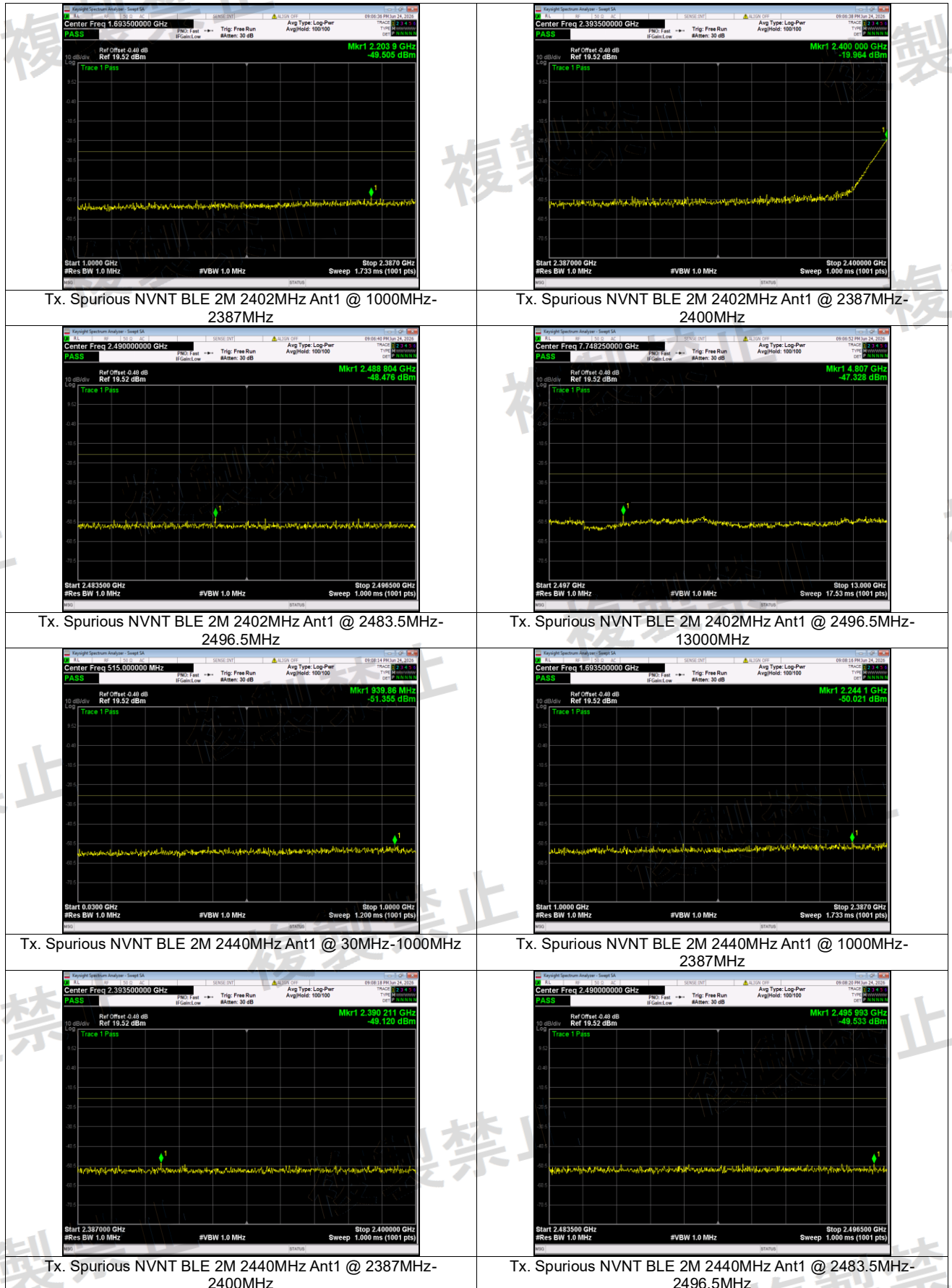


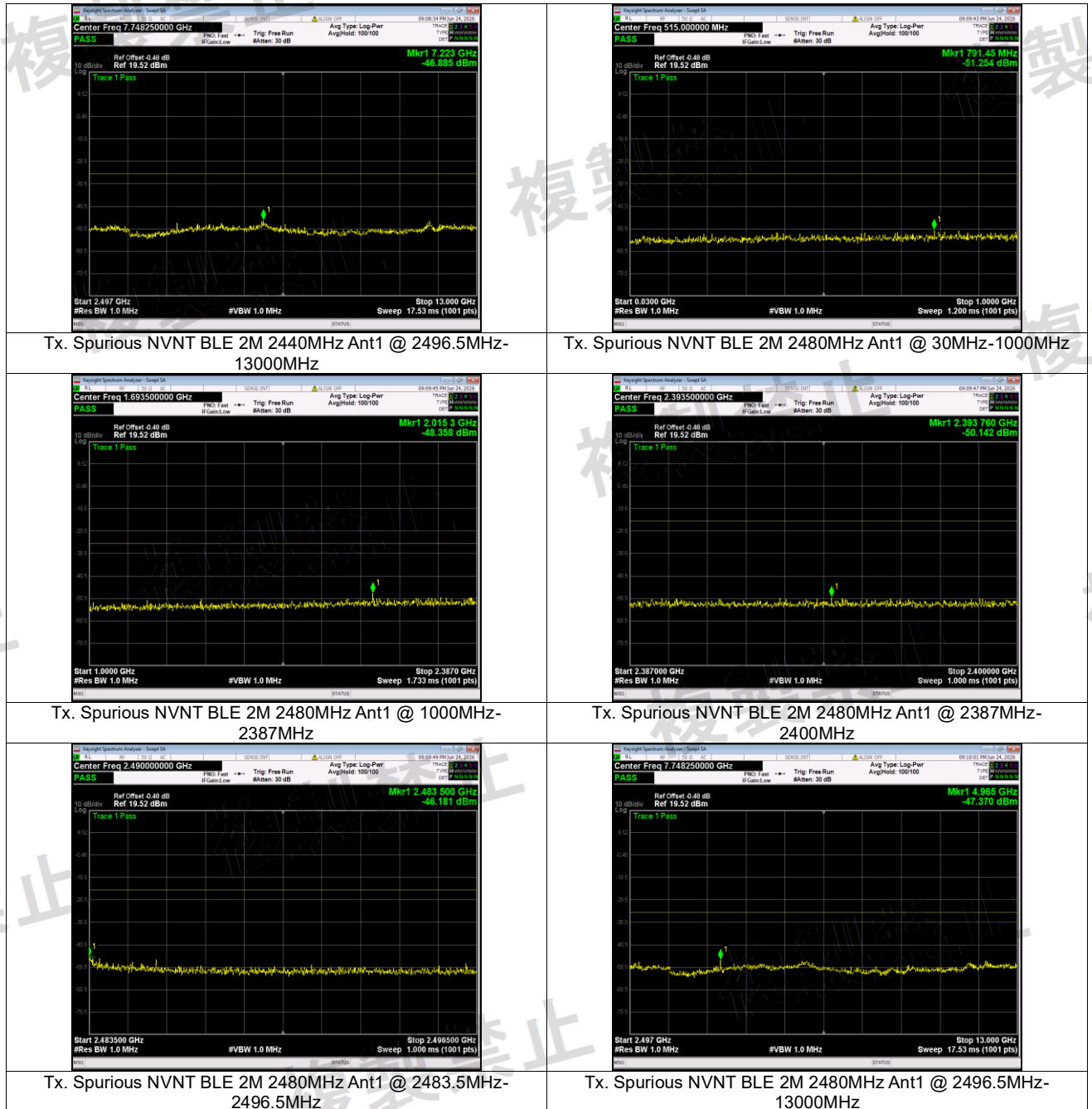
Tx Spurious Emission

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	BLE 1M	2402	Ant1	30-1000	903.00	-51.39	NA	0.0073	NA	2.5	2.5	Pass
NVNT	BLE 1M	2402	Ant1	1000-2387	2055.51	-48.88	NA	0.0129	NA	2.5	2.5	Pass
NVNT	BLE 1M	2402	Ant1	2387-2400	2400.00	-33.86	NA	0.4111	NA	25	25	Pass
NVNT	BLE 1M	2402	Ant1	2483.5 - 2496.5	2490.05	-49.79	NA	0.0105	NA	25	25	Pass
NVNT	BLE 1M	2402	Ant1	2496.5 -13000	4807.27	-46.24	NA	0.0238	NA	2.5	2.5	Pass
NVNT	BLE 1M	2440	Ant1	30-1000	791.45	-51.51	NA	0.0071	NA	2.5	2.5	Pass
NVNT	BLE 1M	2440	Ant1	1000-2387	2353.71	-48.90	NA	0.0129	NA	2.5	2.5	Pass
NVNT	BLE 1M	2440	Ant1	2387-2400	2388.21	-49.27	NA	0.0118	NA	25	25	Pass
NVNT	BLE 1M	2440	Ant1	2483.5 - 2496.5	2490.59	-49.91	NA	0.0102	NA	25	25	Pass
NVNT	BLE 1M	2440	Ant1	2496.5 -13000	4880.79	-46.55	NA	0.0221	NA	2.5	2.5	Pass
NVNT	BLE 1M	2480	Ant1	30-1000	680.87	-51.36	NA	0.0073	NA	2.5	2.5	Pass
NVNT	BLE 1M	2480	Ant1	1000-2387	2251.07	-49.63	NA	0.0109	NA	2.5	2.5	Pass
NVNT	BLE 1M	2480	Ant1	2387-2400	2393.53	-49.78	NA	0.0105	NA	25	25	Pass
NVNT	BLE 1M	2480	Ant1	2483.5 - 2496.5	2483.62	-48.92	NA	0.0128	NA	25	25	Pass
NVNT	BLE 1M	2480	Ant1	2496.5 -13000	4964.82	-47.16	NA	0.0192	NA	2.5	2.5	Pass
NVNT	BLE 2M	2402	Ant1	30-1000	956.35	-51.09	NA	0.0078	NA	2.5	2.5	Pass
NVNT	BLE 2M	2402	Ant1	1000-2387	2203.92	-49.50	NA	0.0112	NA	2.5	2.5	Pass
NVNT	BLE 2M	2402	Ant1	2387-2400	2400.00	-19.96	NA	10.0925	NA	25	25	Pass
NVNT	BLE 2M	2402	Ant1	2483.5 - 2496.5	2488.80	-48.47	NA	0.0142	NA	25	25	Pass
NVNT	BLE 2M	2402	Ant1	2496.5 -13000	4807.27	-47.32	NA	0.0185	NA	2.5	2.5	Pass
NVNT	BLE 2M	2440	Ant1	30-1000	939.86	-51.35	NA	0.0073	NA	2.5	2.5	Pass
NVNT	BLE 2M	2440	Ant1	1000-2387	2244.14	-50.02	NA	0.01	NA	2.5	2.5	Pass
NVNT	BLE 2M	2440	Ant1	2387-2400	2390.21	-49.12	NA	0.0122	NA	25	25	Pass
NVNT	BLE 2M	2440	Ant1	2483.5 - 2496.5	2495.99	-49.53	NA	0.0111	NA	25	25	Pass
NVNT	BLE 2M	2440	Ant1	2496.5 -13000	7223.08	-46.88	NA	0.0205	NA	2.5	2.5	Pass
NVNT	BLE 2M	2480	Ant1	30-1000	791.45	-51.25	NA	0.0075	NA	2.5	2.5	Pass
NVNT	BLE 2M	2480	Ant1	1000-2387	2015.28	-48.35	NA	0.0146	NA	2.5	2.5	Pass
NVNT	BLE 2M	2480	Ant1	2387-2400	2393.76	-50.14	NA	0.0097	NA	25	25	Pass
NVNT	BLE 2M	2480	Ant1	2483.5 - 2496.5	2483.50	-46.18	NA	0.0241	NA	25	25	Pass
NVNT	BLE 2M	2480	Ant1	2496.5 -13000	4964.82	-47.36	NA	0.0184	NA	2.5	2.5	Pass



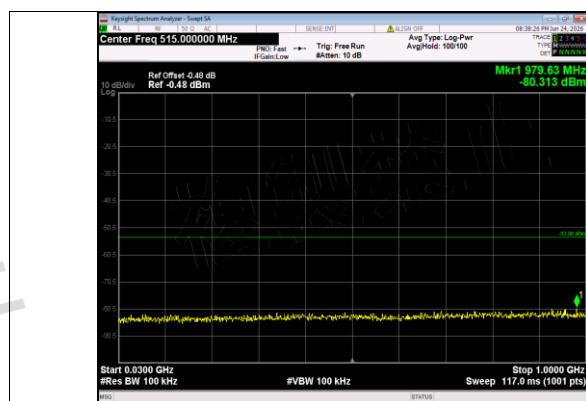




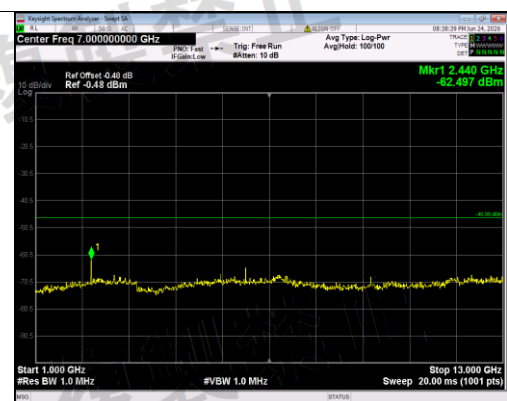


Rx Spurious Emission

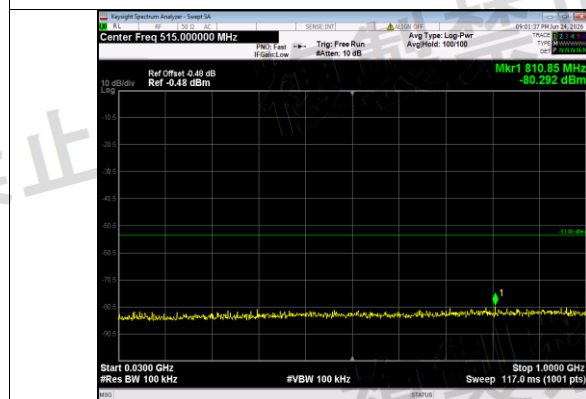
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (nW)	Max RMS Value (nW)	Limit (nW)	Verdict
NVNT	BLE 1M	2402	Ant1	30-1000	979.63	-80.31	NA	0.0093	NA	4	Pass
NVNT	BLE 1M	2402	Ant1	1000-13000	2440.00	-62.50	NA	0.5623	NA	20	Pass
NVNT	BLE 1M	2440	Ant1	30-1000	810.85	-80.29	NA	0.0094	NA	4	Pass
NVNT	BLE 1M	2440	Ant1	1000-13000	5212.00	-54.04	-60.89	3.9446	0.8147	20	Pass
NVNT	BLE 1M	2480	Ant1	30-1000	722.58	-80.56	NA	0.0088	NA	4	Pass
NVNT	BLE 1M	2480	Ant1	1000-13000	2440.00	-61.30	NA	0.7413	NA	20	Pass



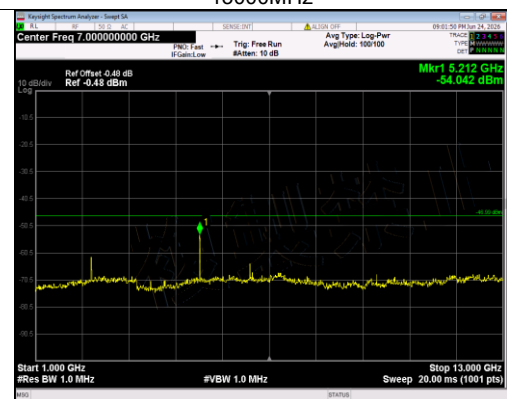
Rx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 30MHz-1000MHz



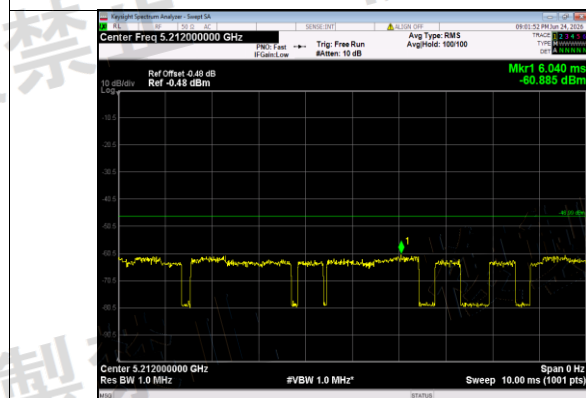
Rx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 1000MHz-13000MHz



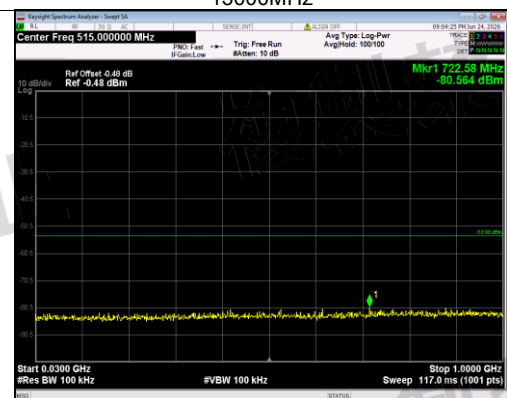
Rx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 1000MHz-13000MHz



Rx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 1000MHz-13000MHz Final



Rx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 30MHz-1000MHz

