

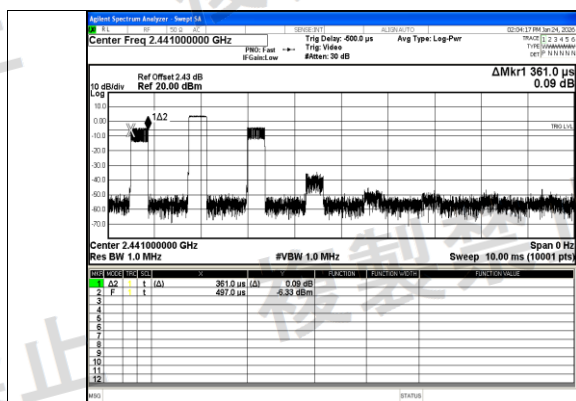
Appendix A: Test Results

DWELL TIME	2
FREQUENCY ERROR	5
ANTENNA POWER	6
EIRP POWER	6
TX SPURIOUS EMISSION	7
RX SPURIOUS EMISSION	15
OCCUPIED CHANNEL BANDWIDTH (HOPPING)	17
SPREADING BANDWIDTH	18

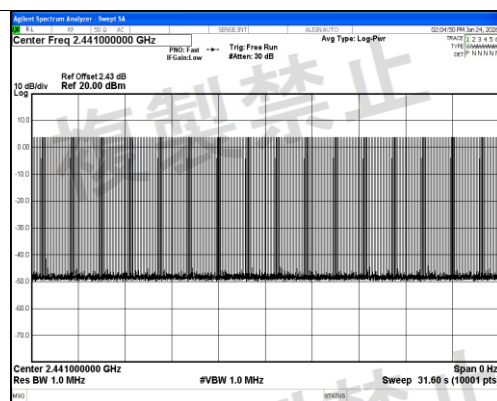
Dwell Time

Temperature:	20.1°C	Humidity:	40.0% RH
Operation Mode:	Hopping mode		

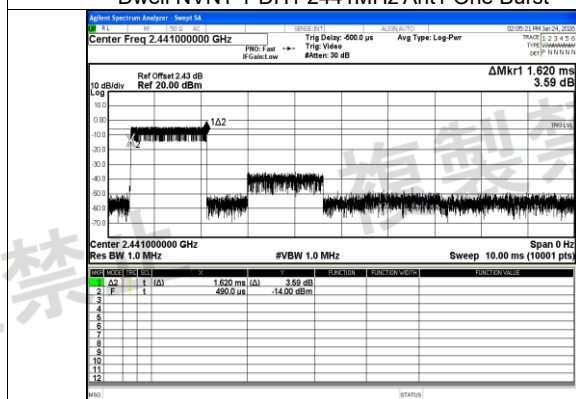
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.361	115.52	320	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.62	186.3	115	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.867	280.97	98	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.369	118.45	321	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.628	183.96	113	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.877	270.44	94	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.363	116.16	320	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.627	188.73	116	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.878	276.29	96	31600	400	Pass



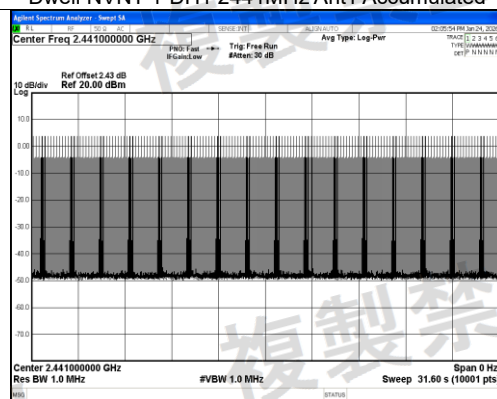
Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



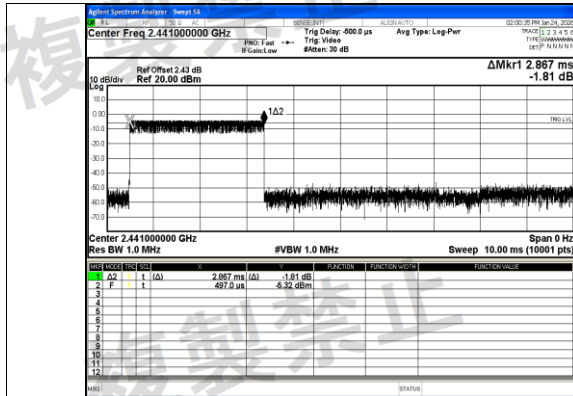
Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



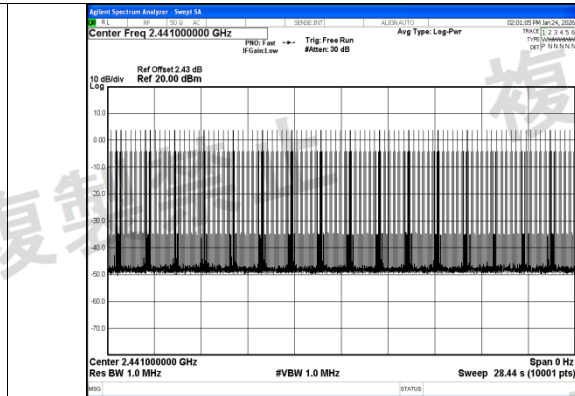
Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



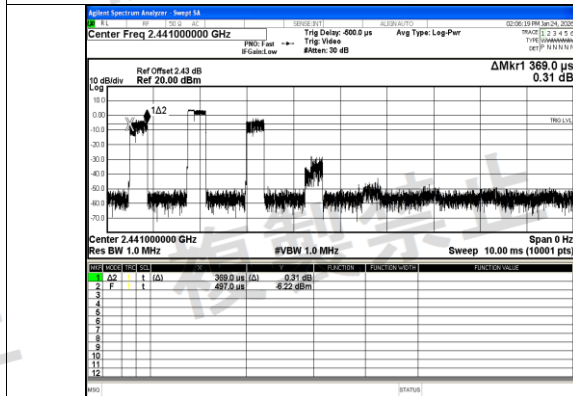
Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



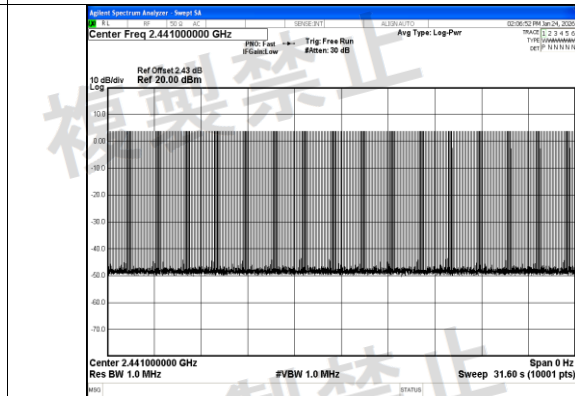
Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



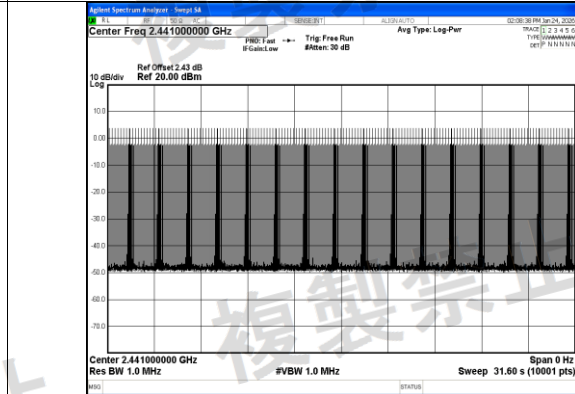
Dwell NVNT 2-DH1 2441MHz Ant1 One Burst



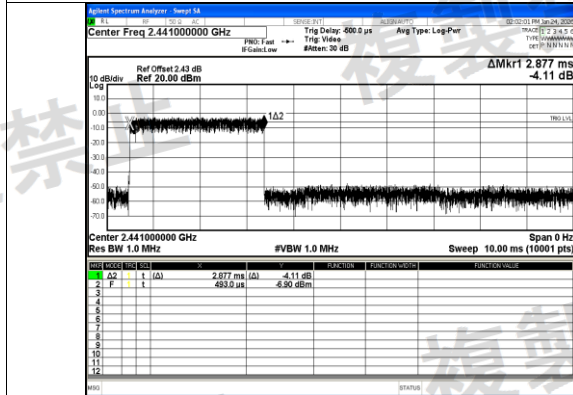
Dwell NVNT 2-DH1 2441MHz Ant1 Accumulated



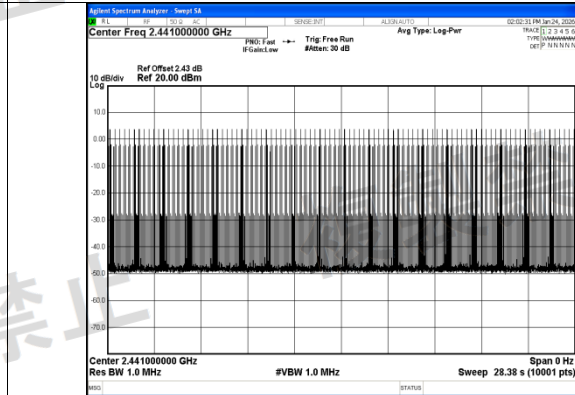
Dwell NVNT 2-DH3 2441MHz Ant1 One Burst



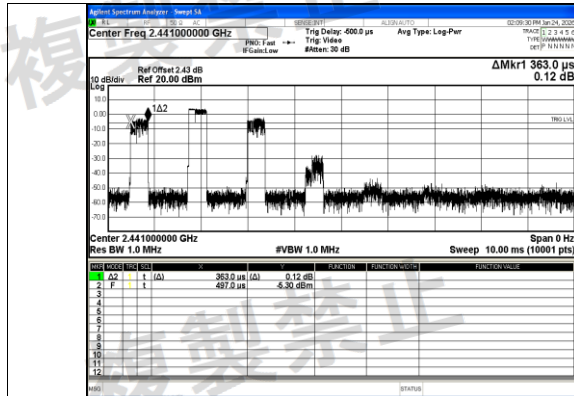
Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



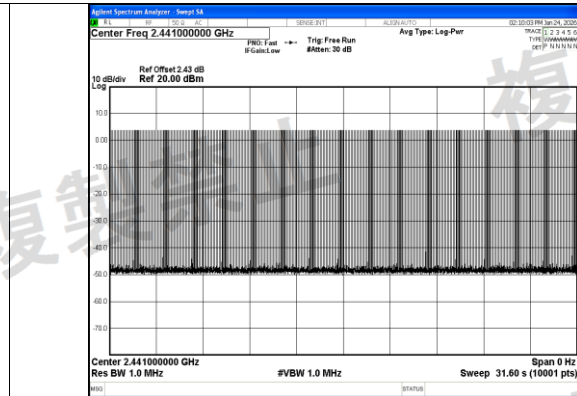
Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



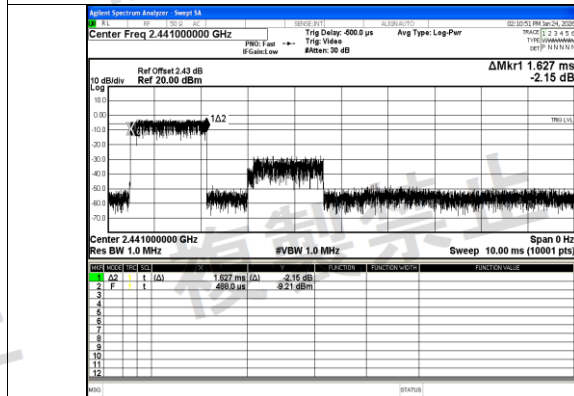
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



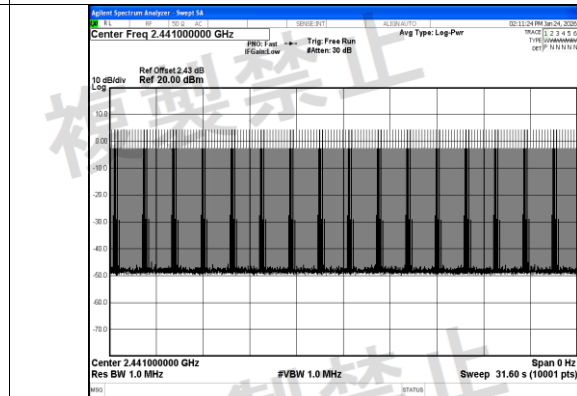
Dwell NVNT 3-DH1 2441MHz Ant1 One Burst



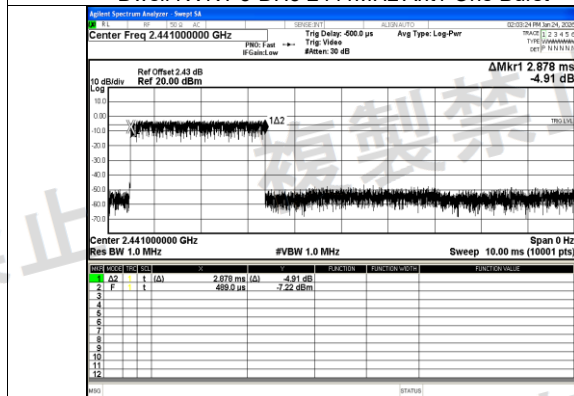
Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated



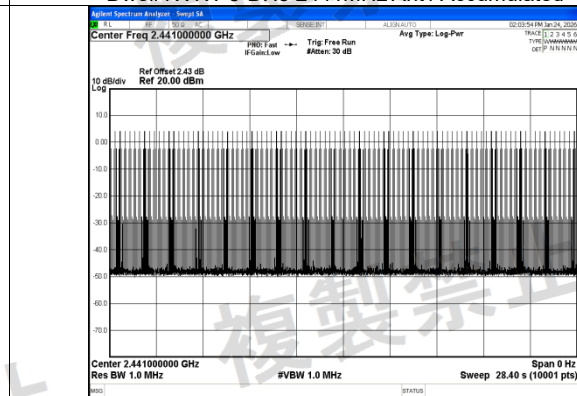
Dwell NVNT 3-DH3 2441MHz Ant1 One Burst



Dwell NVNT 3-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

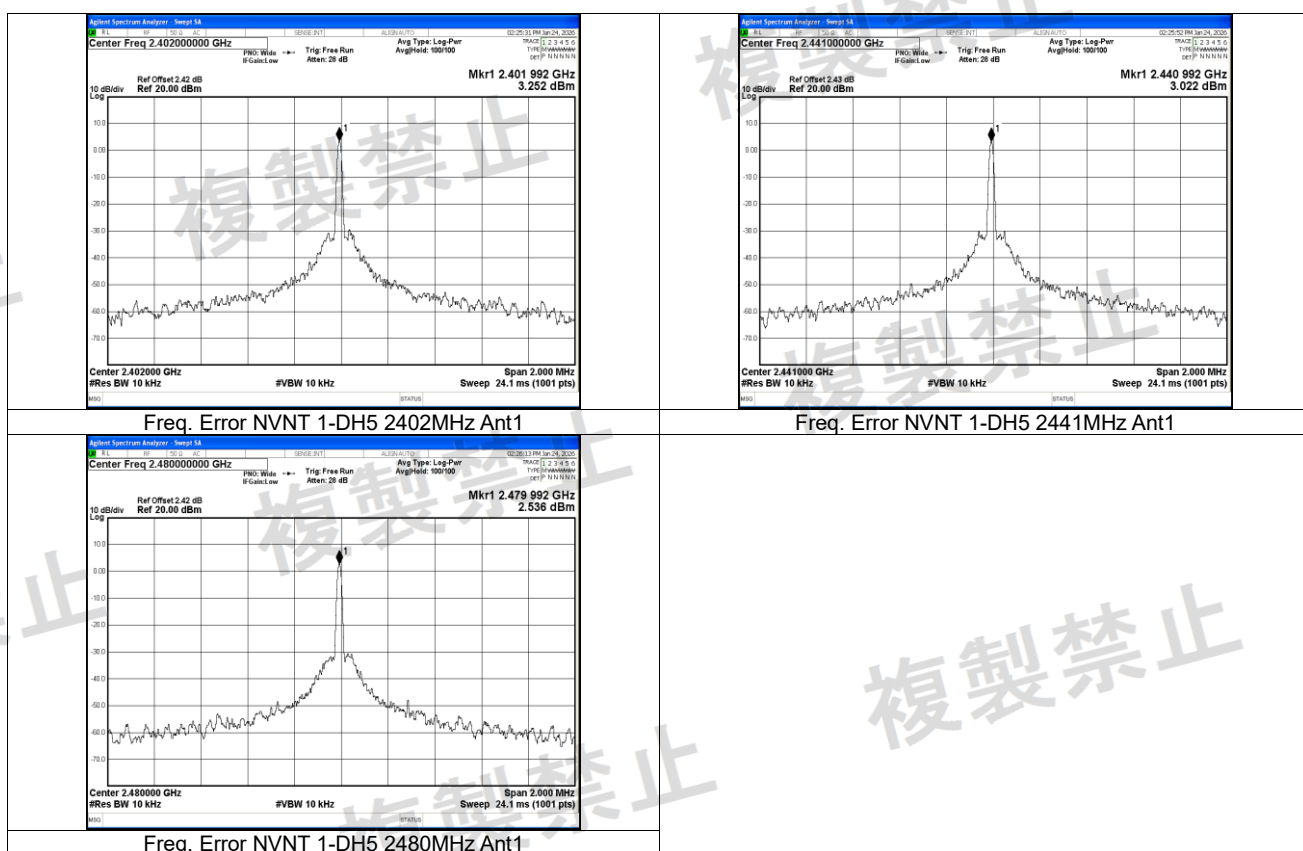
Frequency Error

Temperature:	20.1°C	Humidity:	40.0% RH
Operation Mode:	Unmodulated mode		

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	1-DH5	2402	Ant1	2401.992	-8000	-3.33	50	Pass
NVNT	1-DH5	2441	Ant1	2440.992	-8000	-3.28	50	Pass
NVNT	1-DH5	2480	Ant1	2479.992	-8000	-3.23	50	Pass

Note:

Tolerance = (Measured Frequency – Frequency) / Frequency * 10⁶.



Antenna Power

Temperature:	20.1°C	Humidity:	40.0% RH
Operation Mode:	TX mode		

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	3.6	2.291	71.087	0.032	3	0.05	-36.00	20	Pass
NVNT	1-DH5	hopping	Ant1	3.77	2.382	71.087	0.034	3	0.05	-32.00	20	Pass
NVNT	1-DH5	hopping	Ant1	3.93	2.472	71.087	0.035	3	0.05	-30.00	20	Pass
NVNT	2-DH5	hopping	Ant1	2.37	1.726	70.944	0.024	3	0.05	-52.00	20	Pass
NVNT	2-DH5	hopping	Ant1	2.46	1.762	70.944	0.025	3	0.05	-50.00	20	Pass
NVNT	2-DH5	hopping	Ant1	2.74	1.879	70.944	0.026	3	0.05	-48.00	20	Pass
NVNT	3-DH5	hopping	Ant1	2.4	1.738	70.993	0.024	3	0.05	-52.00	20	Pass
NVNT	3-DH5	hopping	Ant1	2.47	1.766	70.993	0.025	3	0.05	-50.00	20	Pass
NVNT	3-DH5	hopping	Ant1	2.72	1.871	70.993	0.026	3	0.05	-48.00	20	Pass

Note:

Power (mW) = $10^{(\text{Power(dBm)}/10)}$

Tolerance = $(\text{Power (mW)} - \text{Declared Power}) / \text{Declared Power} * 100\%$

EIRP Power

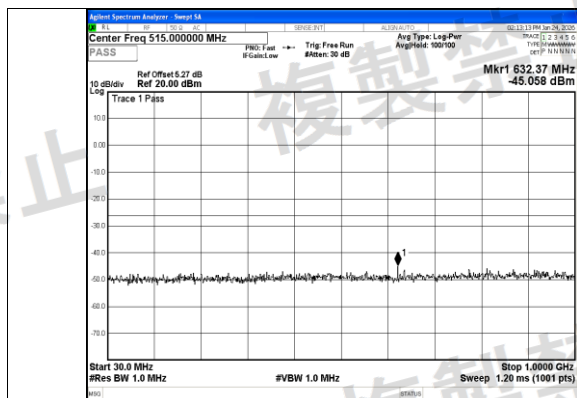
Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW/MHz)	Antenna Power (dBm/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	hopping	Ant1	0.032	-14.95	2.85	-12.10	6.91	Pass
NVNT	1-DH5	hopping	Ant1	0.034	-14.69	2.85	-11.84	6.91	Pass
NVNT	1-DH5	hopping	Ant1	0.035	-14.56	2.85	-11.71	6.91	Pass
NVNT	2-DH5	hopping	Ant1	0.024	-16.20	2.85	-13.35	6.91	Pass
NVNT	2-DH5	hopping	Ant1	0.025	-16.02	2.85	-13.17	6.91	Pass
NVNT	2-DH5	hopping	Ant1	0.026	-15.85	2.85	-13.00	6.91	Pass
NVNT	3-DH5	hopping	Ant1	0.024	-16.20	2.85	-13.35	6.91	Pass
NVNT	3-DH5	hopping	Ant1	0.025	-16.02	2.85	-13.17	6.91	Pass
NVNT	3-DH5	hopping	Ant1	0.026	-15.85	2.85	-13.00	6.91	Pass

Tx Spurious Emission

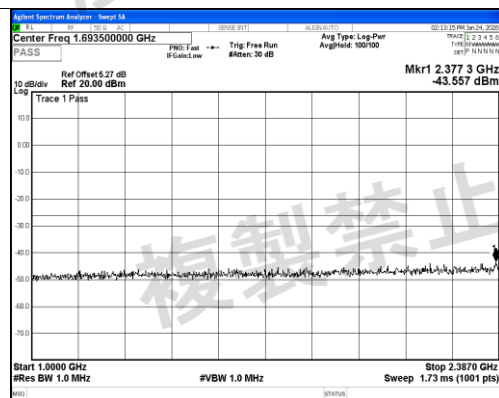
Temperature:	20.1°C	Humidity:	40.0% RH
Operation Mode:	TX mode		

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	632.37	-45.05	NA	0.0313	NA	2.5	2.5	Pass
NVNT	1-DH5	2402	Ant1	1000-2387	2377.29	-43.55	NA	0.0442	NA	2.5	2.5	Pass
NVNT	1-DH5	2402	Ant1	2387-2400	2399.97	-33.30	NA	0.4677	NA	25	25	Pass
NVNT	1-DH5	2402	Ant1	2483.5-2496.5	2483.62	-44.20	NA	0.038	NA	25	25	Pass
NVNT	1-DH5	2402	Ant1	2496.5-13000	12359.29	-39.21	NA	0.1199	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	Ant1	30-1000	937.92	-45.67	NA	0.0271	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	Ant1	1000-2387	2355.10	-43.37	NA	0.046	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	Ant1	2387-2400	2395.05	-44.34	NA	0.0368	NA	25	25	Pass
NVNT	1-DH5	2441	Ant1	2483.5-2496.5	2496.40	-44.32	NA	0.037	NA	25	25	Pass
NVNT	1-DH5	2441	Ant1	2496.5-13000	12275.26	-39.66	NA	0.1081	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	Ant1	30-1000	927.25	-46.06	NA	0.0248	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	Ant1	1000-2387	2195.59	-43.85	NA	0.0412	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	Ant1	2387-2400	2399.03	-44.35	NA	0.0367	NA	25	25	Pass
NVNT	1-DH5	2480	Ant1	2483.5-2496.5	2484.09	-42.72	NA	0.0535	NA	25	25	Pass
NVNT	1-DH5	2480	Ant1	2496.5-13000	12653.38	-39.70	NA	0.1072	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	Ant1	30-1000	802.12	-45.78	NA	0.0264	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	Ant1	1000-2387	2380.07	-43.81	NA	0.0416	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	Ant1	2387-2400	2399.97	-26.23	NA	2.3823	NA	25	25	Pass
NVNT	2-DH5	2402	Ant1	2483.5-2496.5	2484.81	-44.30	NA	0.0372	NA	25	25	Pass
NVNT	2-DH5	2402	Ant1	2496.5-13000	12359.29	-39.08	NA	0.1236	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	Ant1	30-1000	986.42	-46.14	NA	0.0243	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	Ant1	1000-2387	2110.99	-44.01	NA	0.0397	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	Ant1	2387-2400	2399.12	-43.93	NA	0.0405	NA	25	25	Pass
NVNT	2-DH5	2441	Ant1	2483.5-2496.5	2490.68	-44.21	NA	0.0379	NA	25	25	Pass
NVNT	2-DH5	2441	Ant1	2496.5-13000	12338.28	-39.00	NA	0.1259	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	Ant1	30-1000	838.98	-45.20	NA	0.0302	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	Ant1	1000-2387	2127.63	-44.11	NA	0.0388	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	Ant1	2387-2400	2389.99	-44.63	NA	0.0344	NA	25	25	Pass
NVNT	2-DH5	2480	Ant1	2483.5-2496.5	2483.92	-43.84	NA	0.0413	NA	25	25	Pass

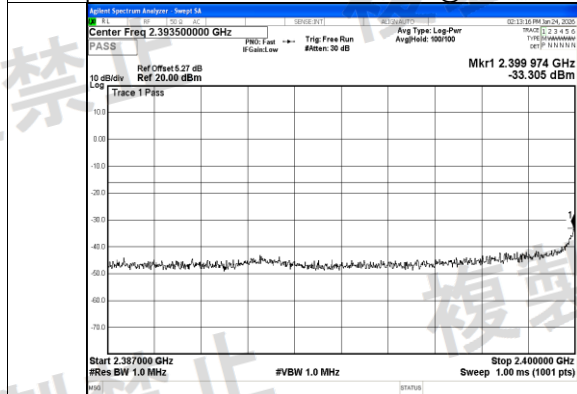
NVNT	2-DH5	2480	Ant1	2496.5 -13000	12401.30	-39.97	NA	0.100 7	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	Ant1	30- 1000	926.28	-45.96	NA	0.025 4	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	Ant1	1000- 2387	2192.82	-44.08	NA	0.039 1	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	Ant1	2387- 2400	2400.00	-25.20	NA	3.02	NA	25	25	Pass
NVNT	3-DH5	2402	Ant1	2483.5 - 2496.5	2483.59	-44.09	NA	0.039	NA	25	25	Pass
NVNT	3-DH5	2402	Ant1	2496.5 -13000	12317.27	-39.30	NA	0.117 5	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	Ant1	30- 1000	904.94	-38.48	NA	0.141 9	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	Ant1	1000- 2387	2359.26	-44.13	NA	0.038 6	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	Ant1	2387- 2400	2393.97	-44.73	NA	0.033 7	NA	25	25	Pass
NVNT	3-DH5	2441	Ant1	2483.5 - 2496.5	2495.98	-43.86	NA	0.041 1	NA	25	25	Pass
NVNT	3-DH5	2441	Ant1	2496.5 -13000	12443.31	-39.63	NA	0.108 9	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	Ant1	30- 1000	970.90	-45.66	NA	0.027 2	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	Ant1	1000- 2387	2282.98	-42.54	NA	0.055 7	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	Ant1	2387- 2400	2393.77	-44.37	NA	0.036 6	NA	25	25	Pass
NVNT	3-DH5	2480	Ant1	2483.5 - 2496.5	2483.60	-43.38	NA	0.045 9	NA	25	25	Pass
NVNT	3-DH5	2480	Ant1	2496.5 -13000	12611.37	-39.38	NA	0.115 3	NA	2.5	2.5	Pass



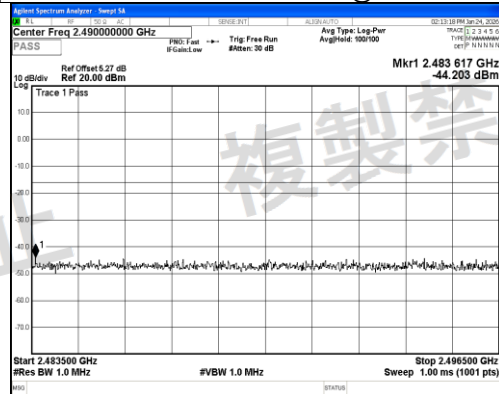
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 30MHz-1000MHz



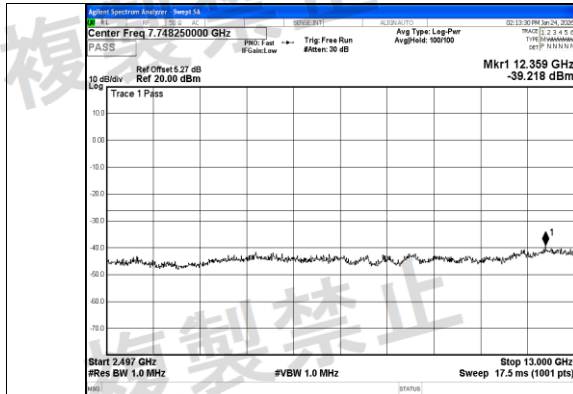
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 1000MHz-2387MHz



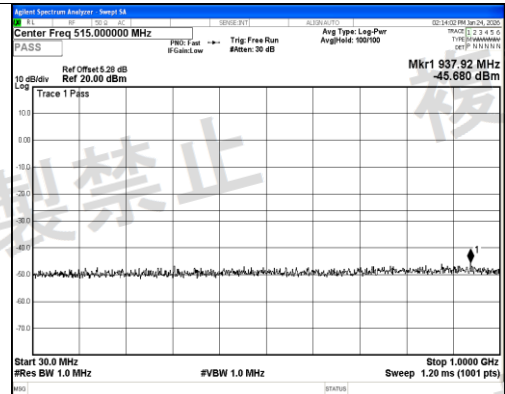
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 2387MHz-2400MHz



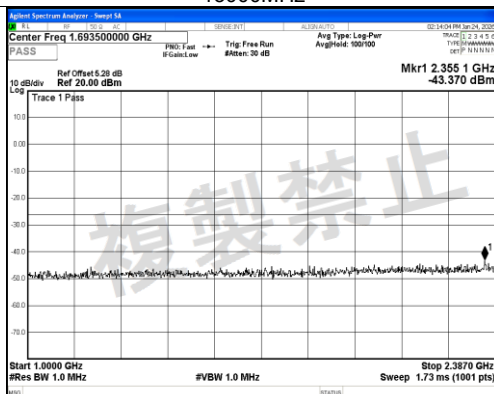
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



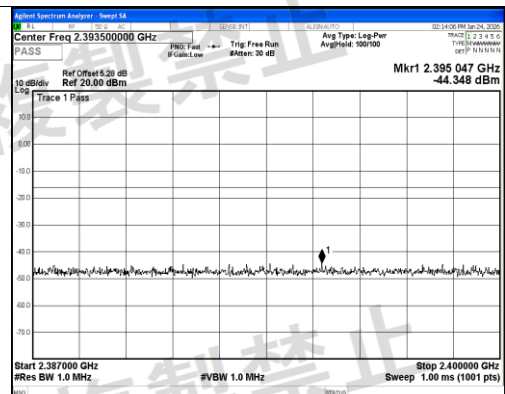
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 2496.5MHz-13000MHz



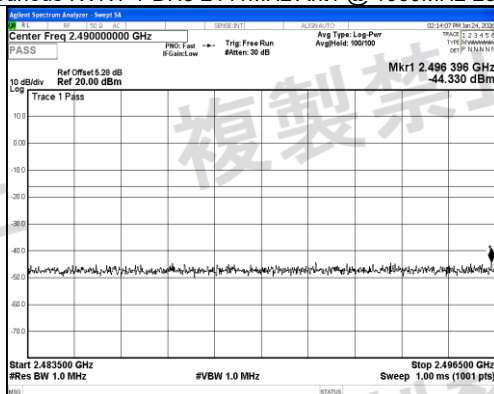
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 30MHz-1000MHz



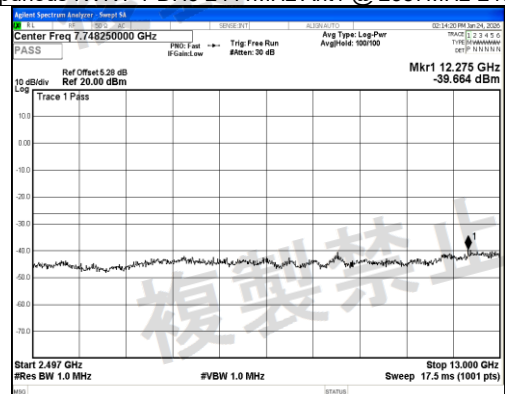
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 1000MHz-2387MHz



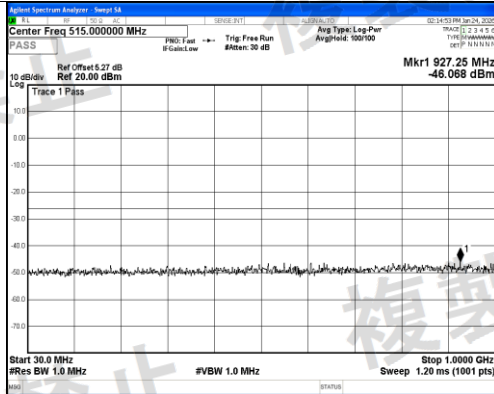
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 2387MHz-2400MHz



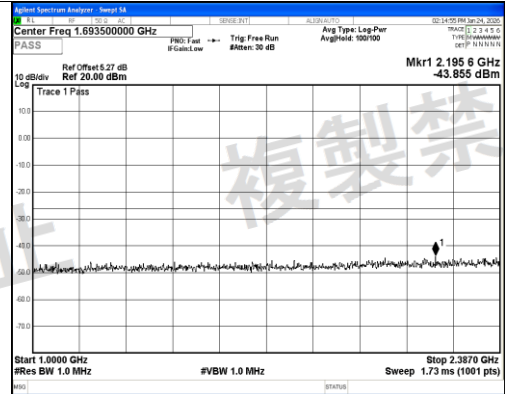
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 2483.5MHz-2496.5MHz



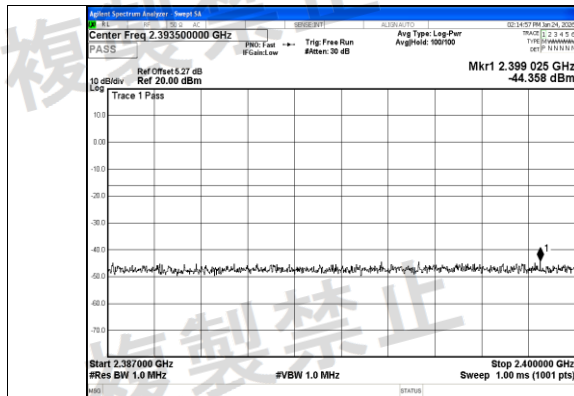
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 2496.5MHz-13000MHz



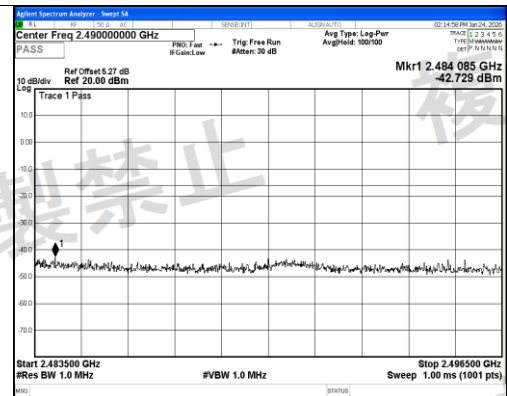
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 30MHz-1000MHz



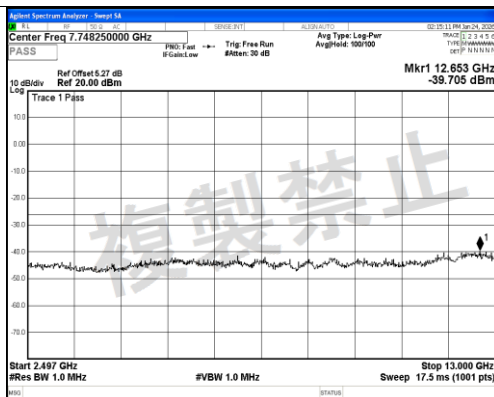
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 1000MHz-2387MHz



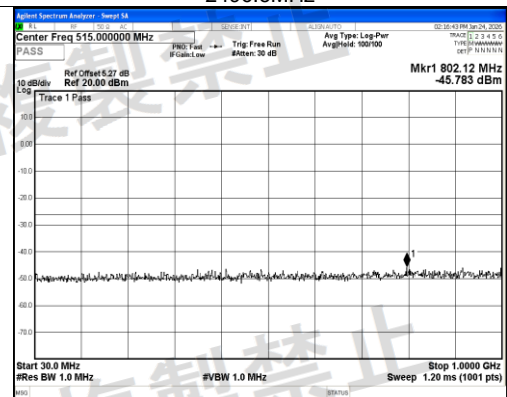
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 2387MHz-2400MHz



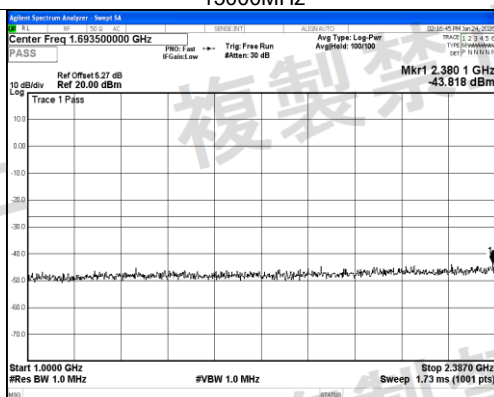
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



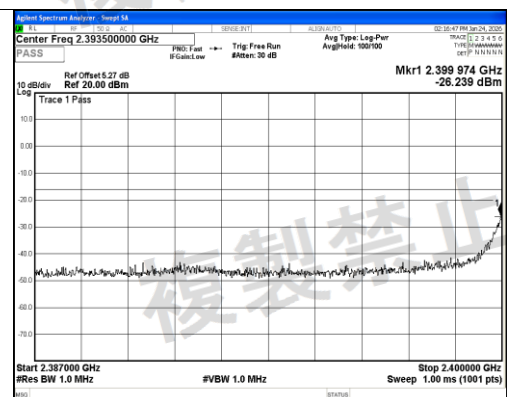
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 2496.5MHz-13000MHz



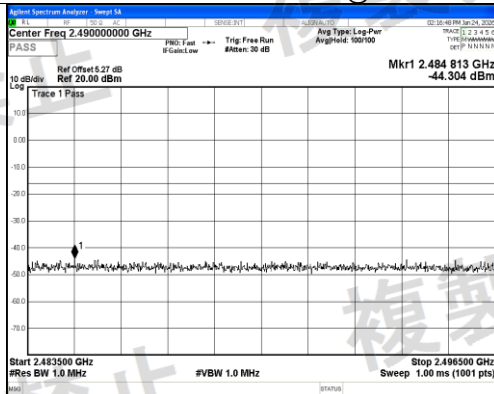
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 30MHz-1000MHz



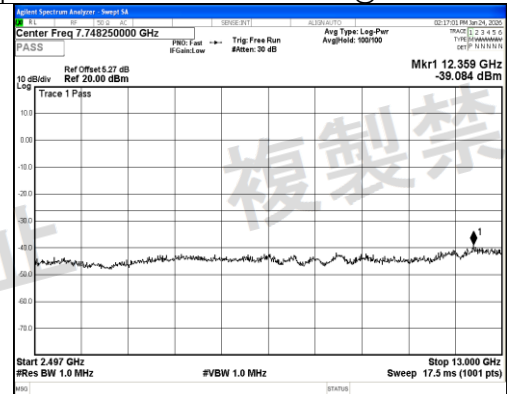
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 1000MHz-2387MHz



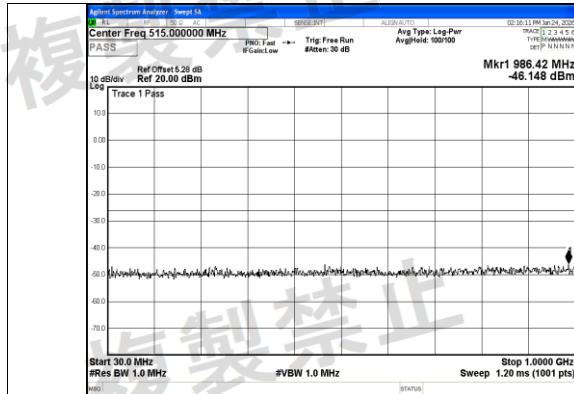
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 2387MHz-2400MHz



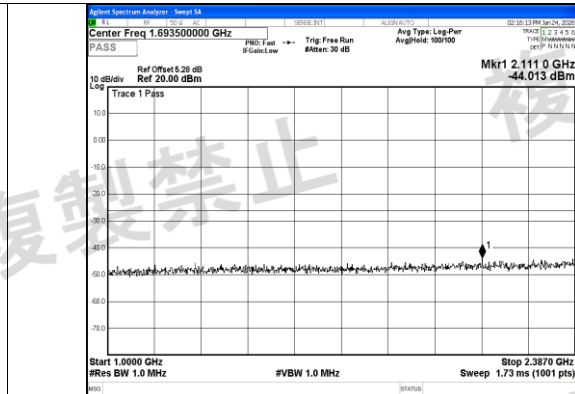
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



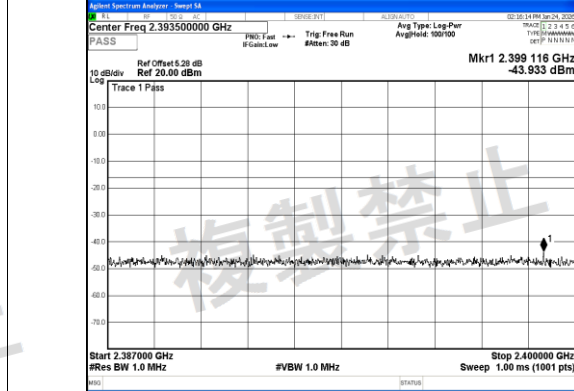
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 2496.5MHz-13000MHz



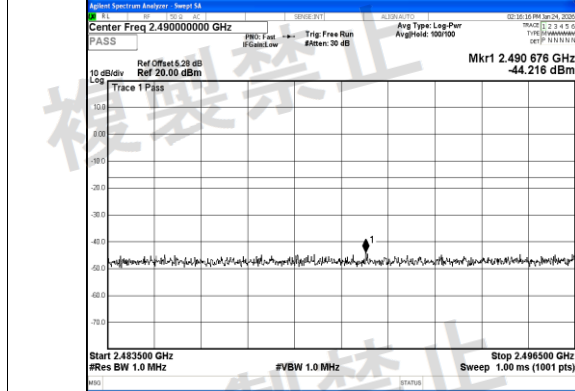
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 30MHz-1000MHz



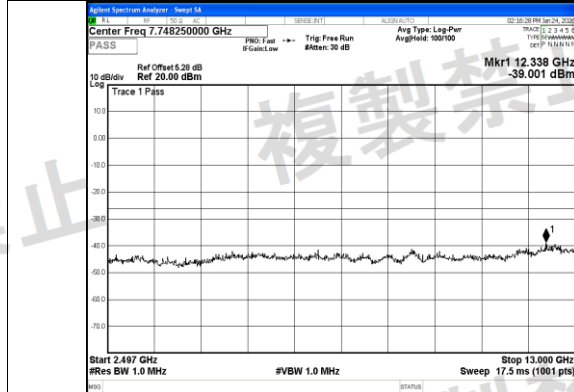
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 1000MHz-2387MHz



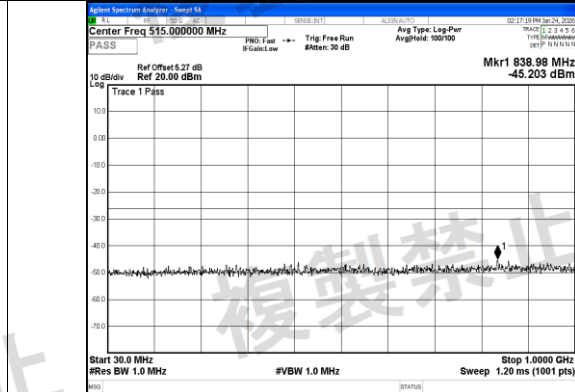
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 2387MHz-2400MHz



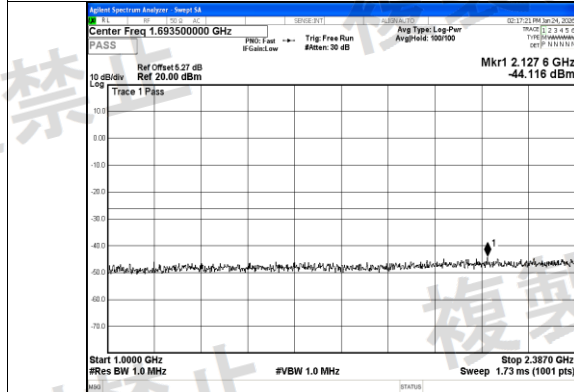
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 2483.5MHz-2496.5MHz



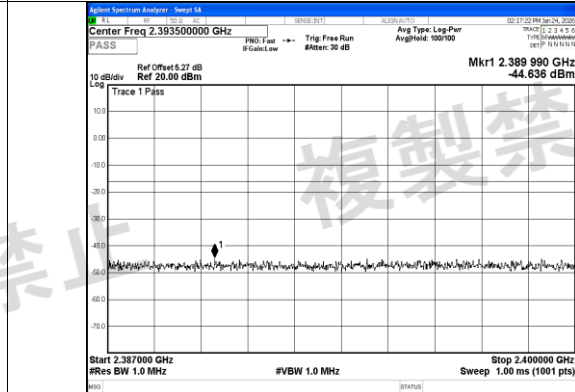
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 2496.5MHz-13000MHz



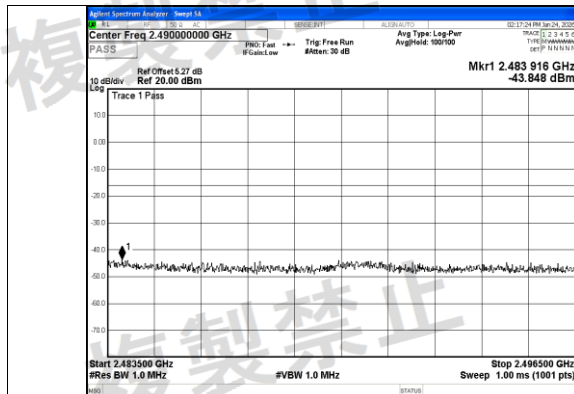
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 30MHz-1000MHz



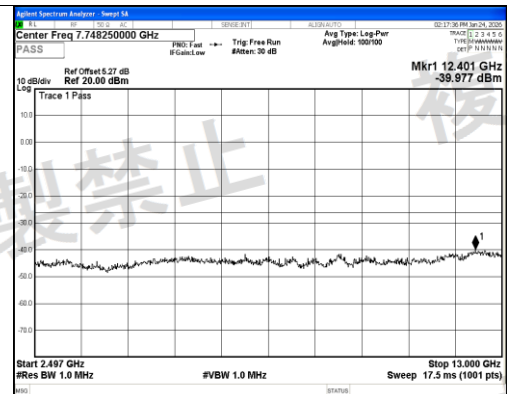
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 1000MHz-2387MHz



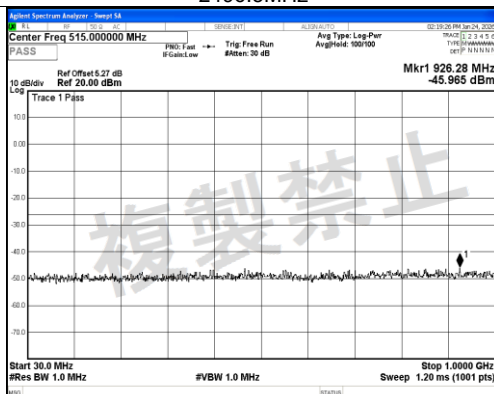
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 2387MHz-2400MHz



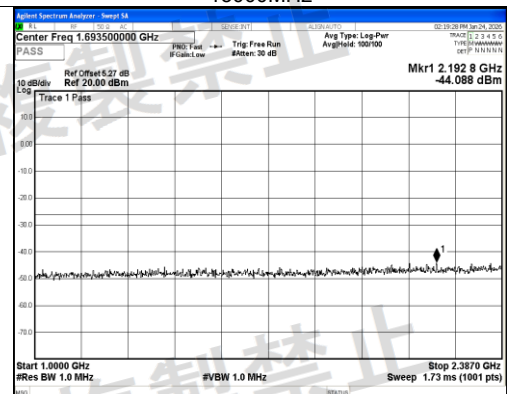
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



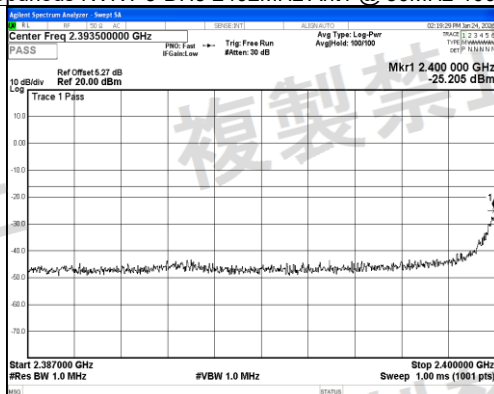
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 2496.5MHz-13000MHz



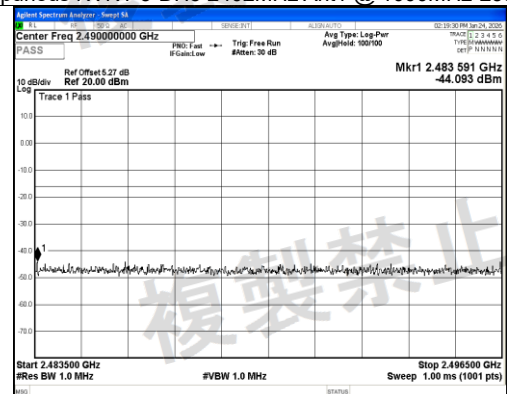
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 30MHz-1000MHz



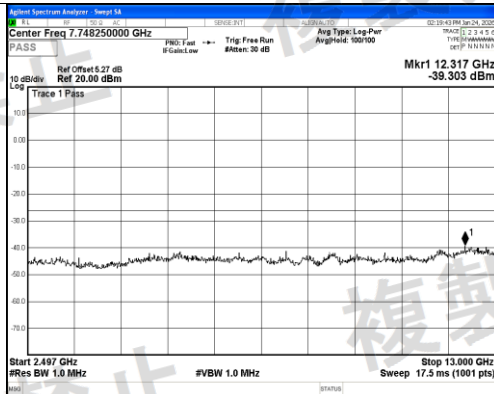
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 1000MHz-2387MHz



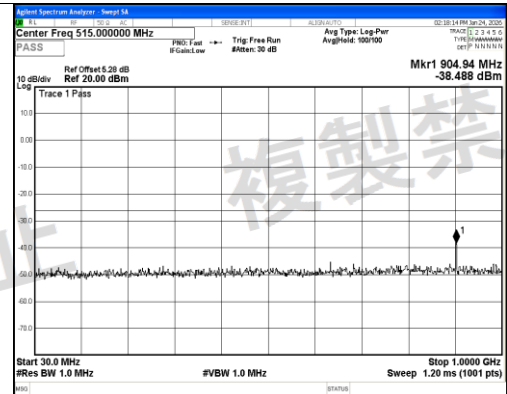
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 2387MHz-2400MHz



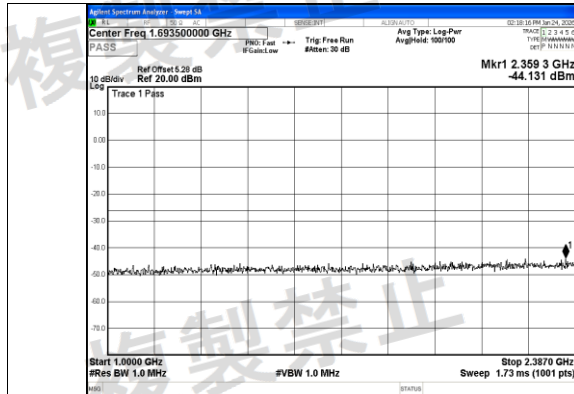
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



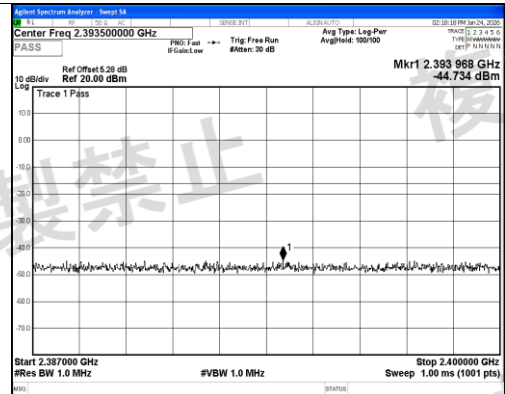
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 2496.5MHz-13000MHz



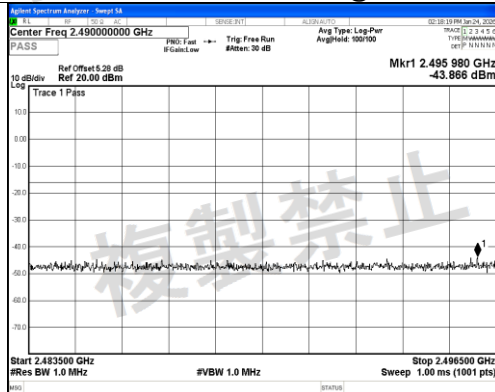
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 30MHz-1000MHz



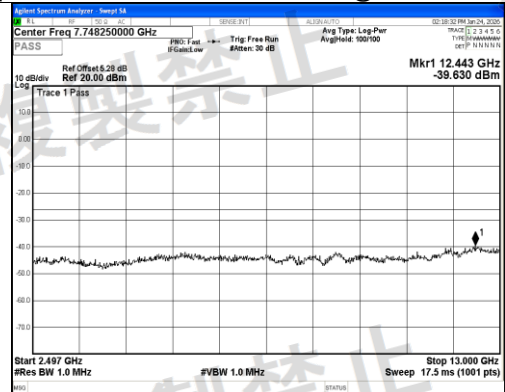
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 1000MHz-2387MHz



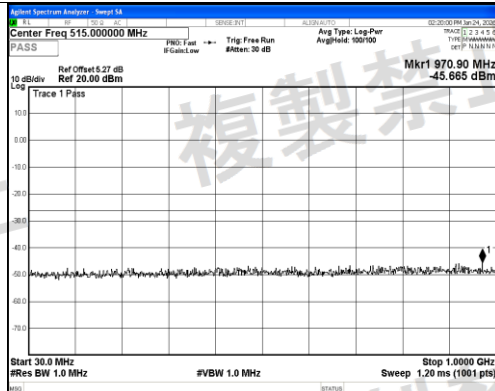
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 2387MHz-2400MHz



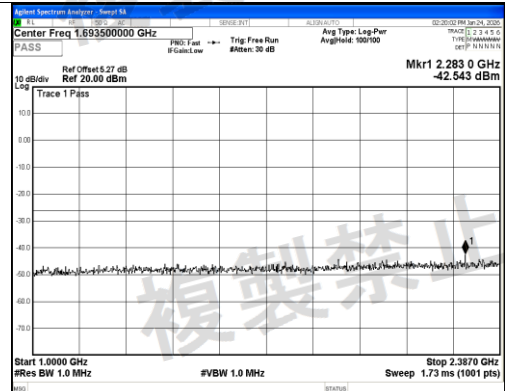
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 2483.5MHz-2496.5MHz



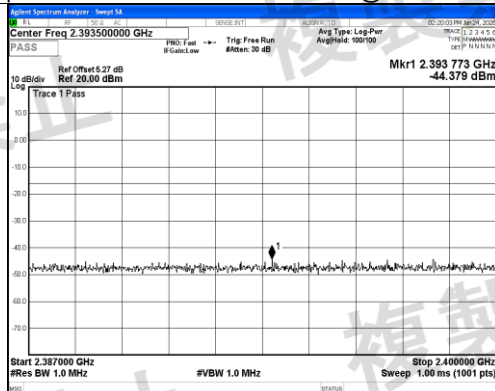
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 2496.5MHz-13000MHz



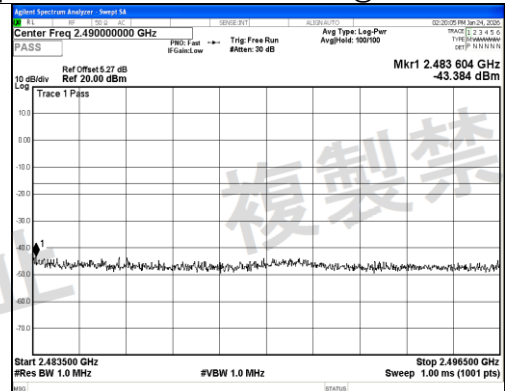
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 30MHz-1000MHz



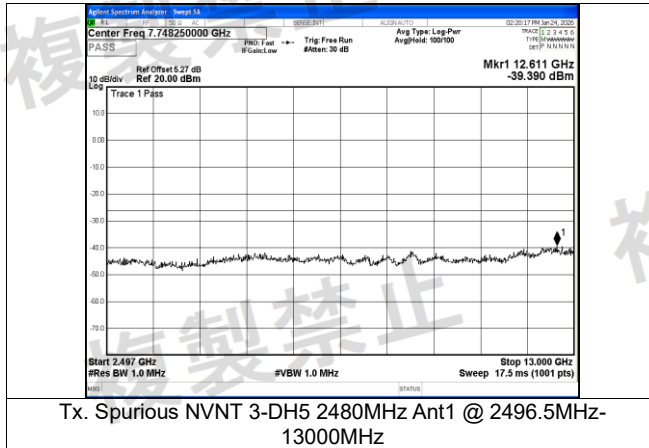
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 1000MHz-2387MHz



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 2387MHz-2400MHz



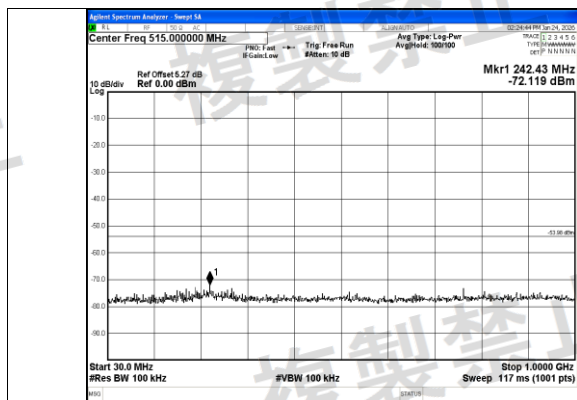
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



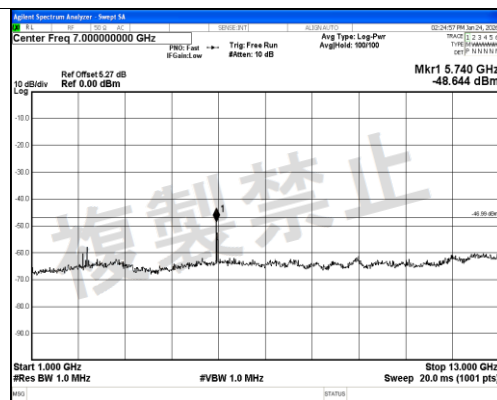
Rx Spurious Emission

Temperature:	20.1°C	Humidity:	40.0% RH
Operation Mode:	RX mode		

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	242.43	-72.12	NA	0.0614	NA	4	Pass
NVNT	1-DH5	2402	Ant1	1000-13000	5740.00	-48.64	-51.82	13.6773	6.5766	20	Pass
NVNT	1-DH5	2441	Ant1	30-1000	212.36	-72.50	NA	0.0562	NA	4	Pass
NVNT	1-DH5	2441	Ant1	1000-13000	5752.00	-49.31	-51.97	11.722	6.3533	20	Pass
NVNT	1-DH5	2480	Ant1	30-1000	904.94	-62.47	-59.14	0.5662	1.219	4	Pass
NVNT	1-DH5	2480	Ant1	1000-13000	5752.00	-52.31	-52.94	5.8749	5.0816	20	Pass



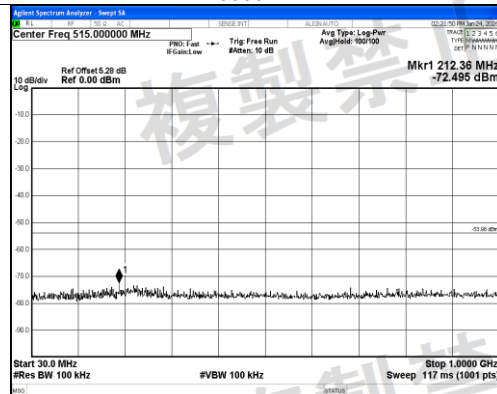
Rx Spurious NVNT 1-DH5 2402MHz Ant1 @ 30MHz-1000MHz



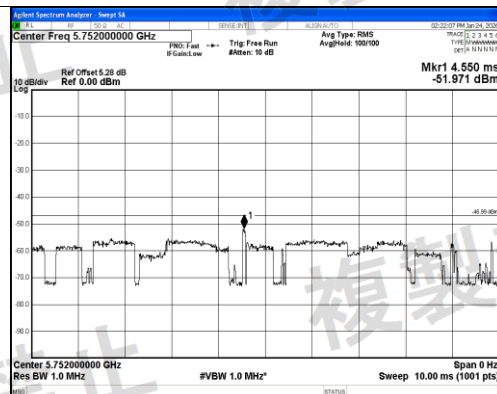
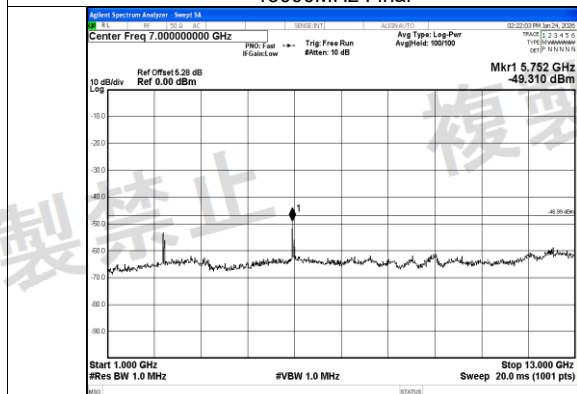
Rx Spurious NVNT 1-DH5 2402MHz Ant1 @ 1000MHz-13000MHz

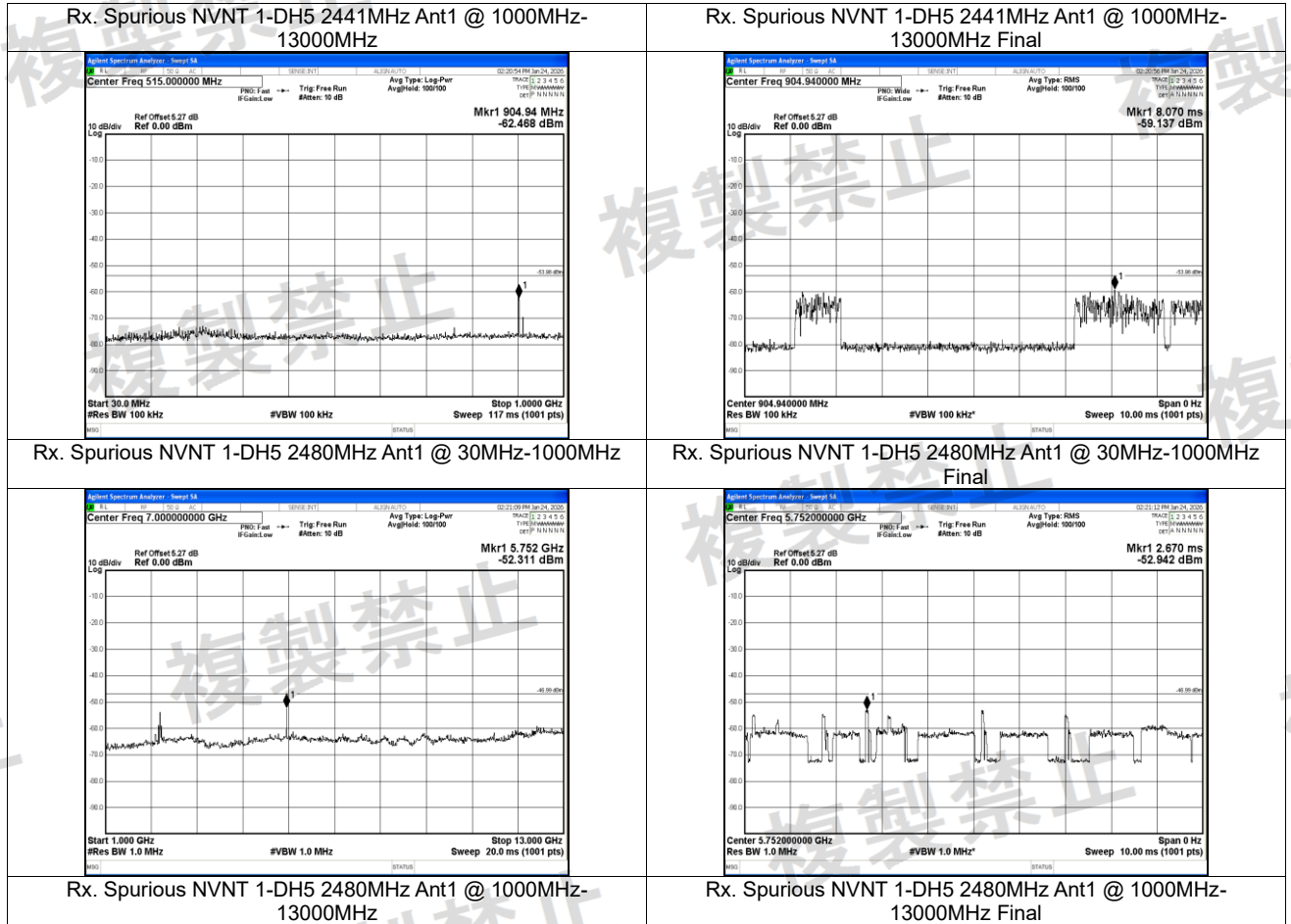


Rx Spurious NVNT 1-DH5 2402MHz Ant1 @ 1000MHz-13000MHz Final



Rx Spurious NVNT 1-DH5 2441MHz Ant1 @ 30MHz-1000MHz

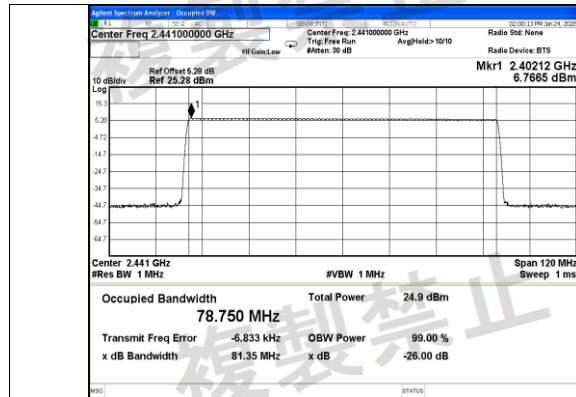




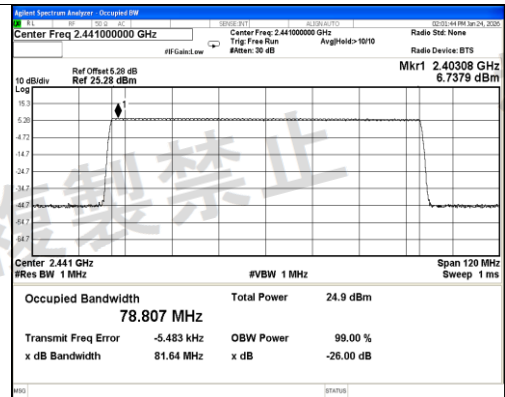
Occupied Channel Bandwidth (Hopping)

Temperature:	20.1°C	Humidity:	40.0% RH
Operation Mode:	Hopping mode		

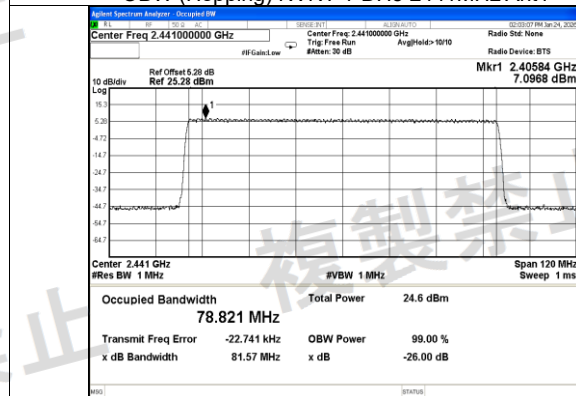
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2441	Ant1	78.75
NVNT	2-DH5	2441	Ant1	78.807
NVNT	3-DH5	2441	Ant1	78.821



OBW (Hopping) NVNT 1-DH5 2441MHz Ant1



OBW (Hopping) NVNT 2-DH5 2441MHz Ant1

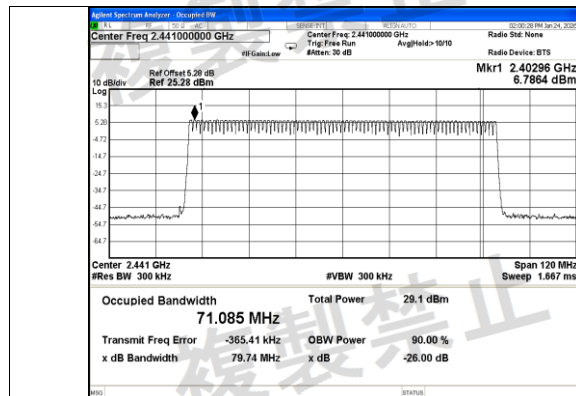


OBW (Hopping) NVNT 3-DH5 2441MHz Ant1

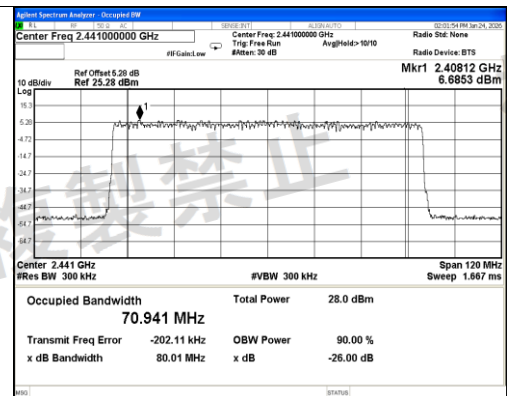
Spreading Bandwidth

Temperature:	20.1°C	Humidity:	40.0% RH
Operation Mode:	Hopping mode		

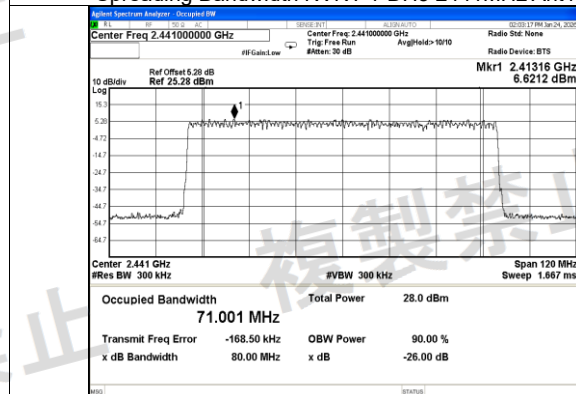
Condition	Mode	Frequency (MHz)	Antenna	90% OBW (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2441	Ant1	71.087	0.5	Pass
NVNT	2-DH5	2441	Ant1	70.944	0.5	Pass
NVNT	3-DH5	2441	Ant1	70.993	0.5	Pass



Spreading Bandwidth NVNT 1-DH5 2441MHz Ant1



Spreading Bandwidth NVNT 2-DH5 2441MHz Ant1



Spreading Bandwidth NVNT 3-DH5 2441MHz Ant1