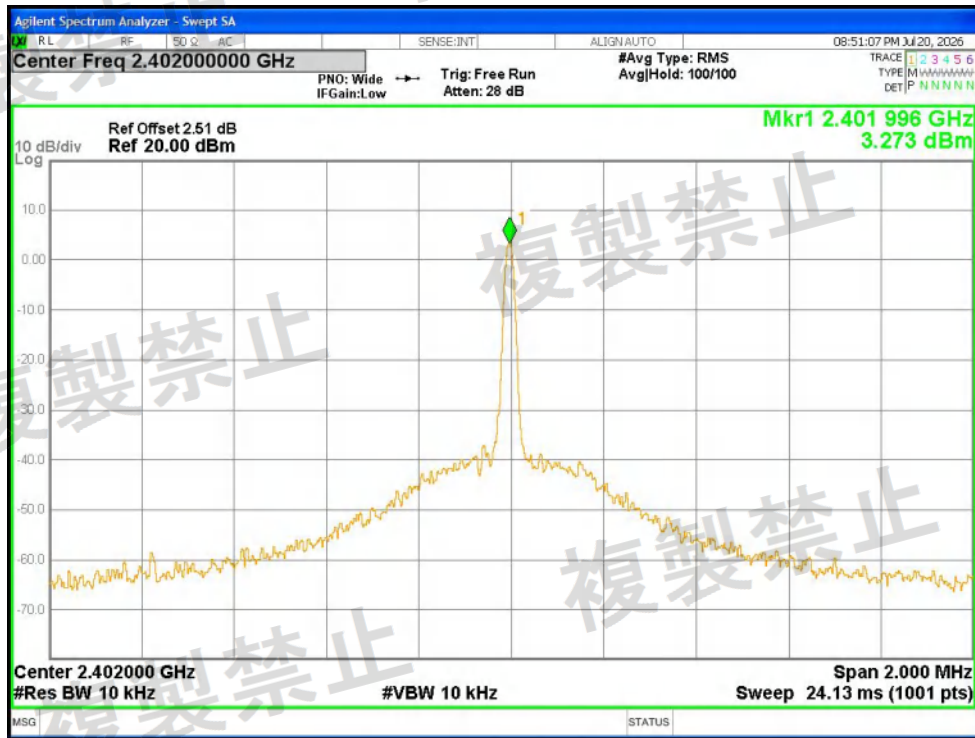


Product Name : Wireless Carplay adapter

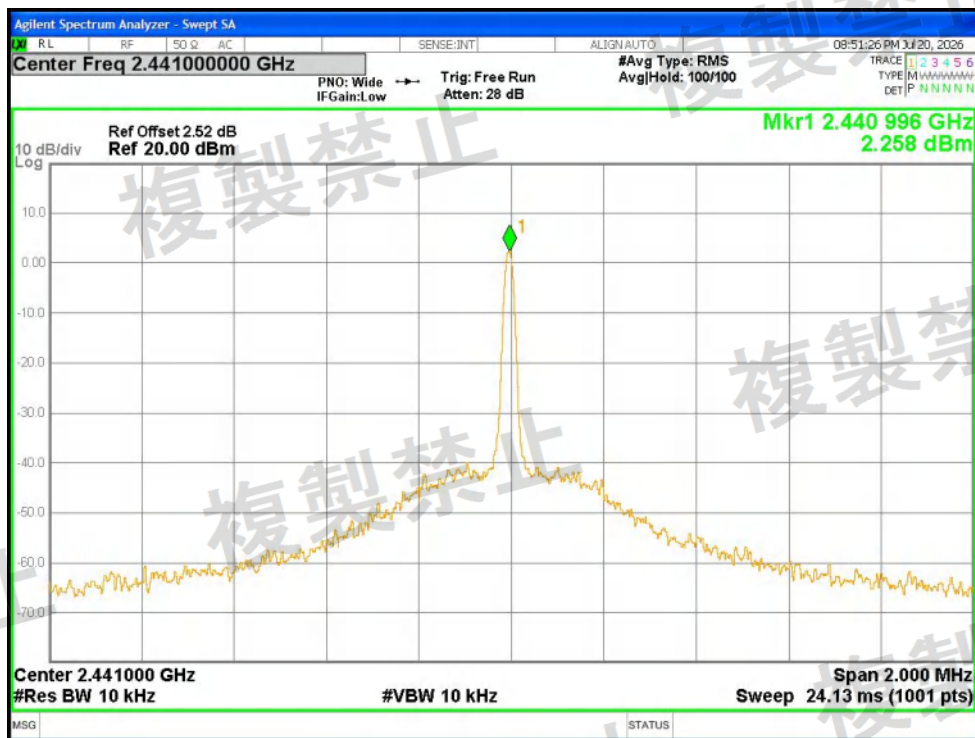
Model Number : KY-4186, KY-4188S, KY-4190S, KY-4193S, KY-4222S, KY-4224S,
KY-4235S, KY-4251S, KY-4101S, KY-4129S

1. Frequency Error

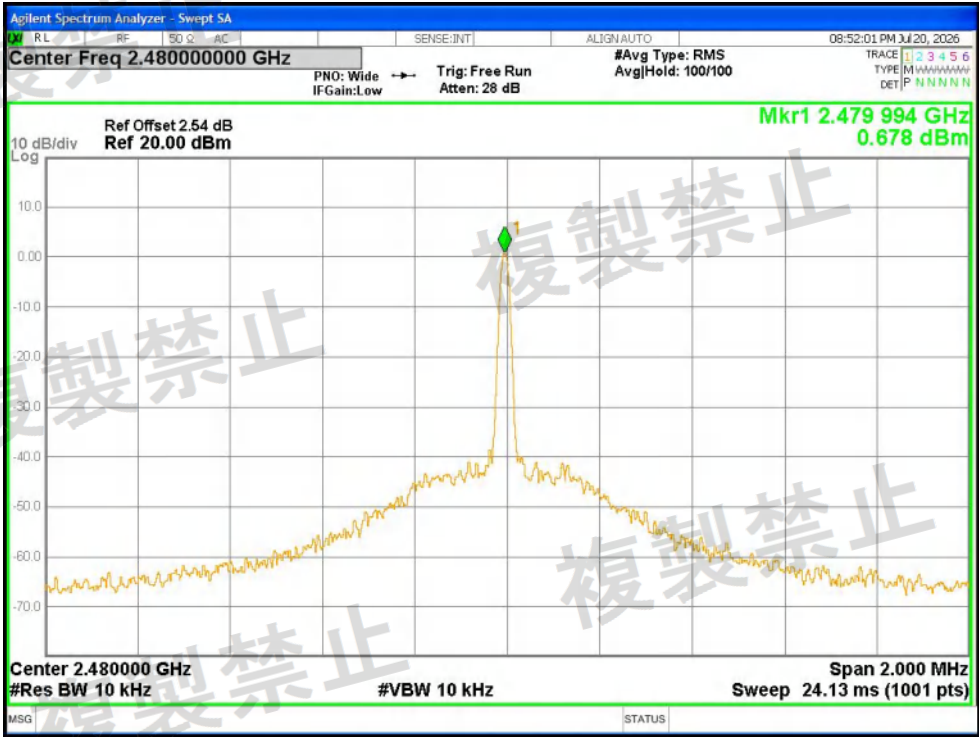
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	1-DH5	2402	Ant1	2401.996	-4000	-1.67	50	Pass
NVNT	1-DH5	2441	Ant1	2440.996	-4000	-1.64	50	Pass
NVNT	1-DH5	2480	Ant1	2479.994	-6000	-2.42	50	Pass



Freq. Error NVNT 1-DH5 2402MHz Ant1



Freq. Error NVNT 1-DH5 2441MHz Ant1



Freq. Error NVNT 1-DH5 2480MHz Ant1

2. Antenna Power

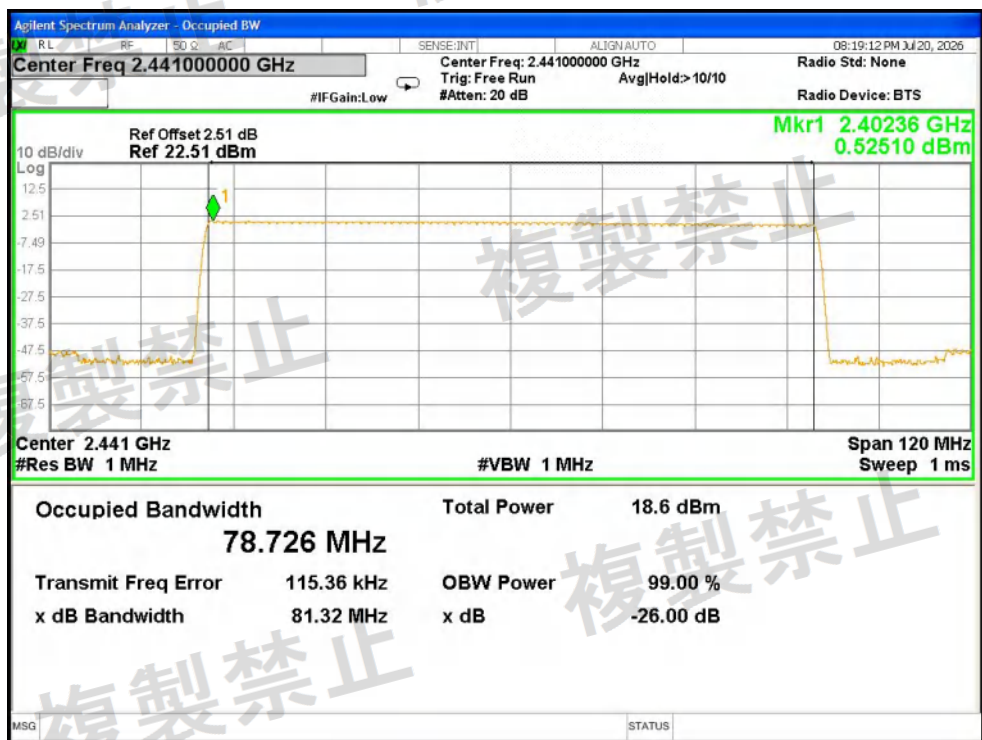
Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Power (mW)	Spread BW (MHz)	Power (mW/MHz)	Limit (mW/MHz)	Declared Power (mW/MHz)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	1-DH5	hopping	Ant1	0.18	1.042	70.168	0.015	3	1	-98.5	20	Pass
NVNT	2-DH5	hopping	Ant1	-1.02	0.791	70.295	0.011	3	1	-98.9	20	Pass
NVNT	3-DH5	hopping	Ant1	-1.01	0.793	70.416	0.011	3	1	-98.9	20	Pass

3. EIRP Power

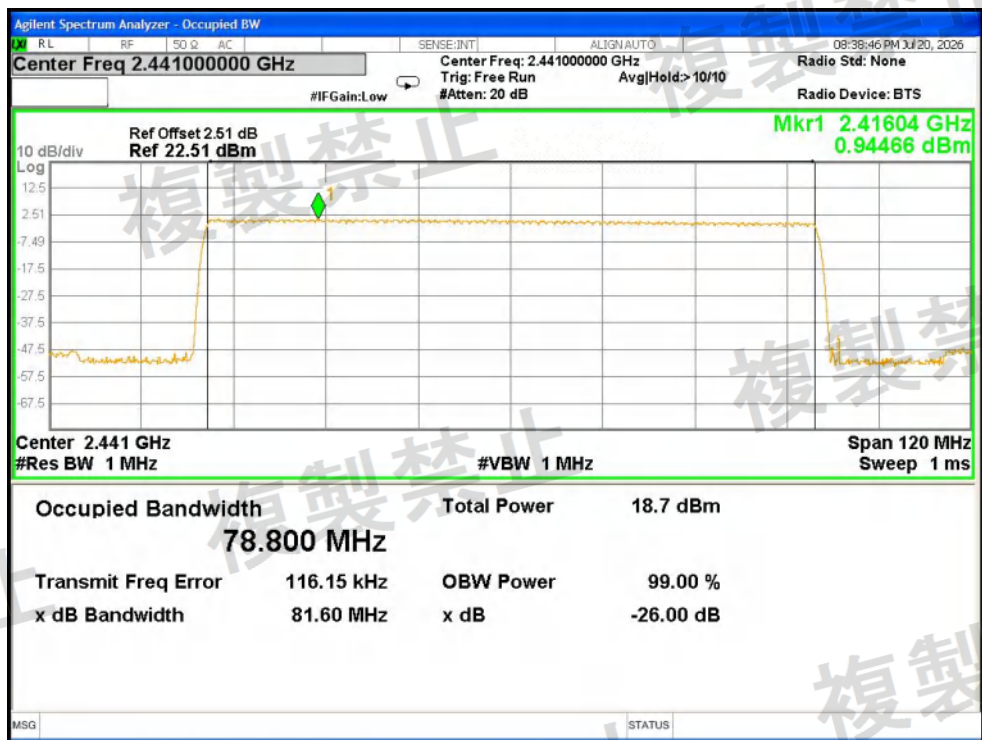
Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW/MHz)	Antenna Power (dBm/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	hopping	Ant1	0.015	-18.24	4.29	-13.95	6.91	Pass
NVNT	2-DH5	hopping	Ant1	0.011	-19.59	4.29	-15.30	6.91	Pass
NVNT	3-DH5	hopping	Ant1	0.011	-19.59	4.29	-15.30	6.91	Pass

4. Occupied Channel Bandwidth (Hopping)

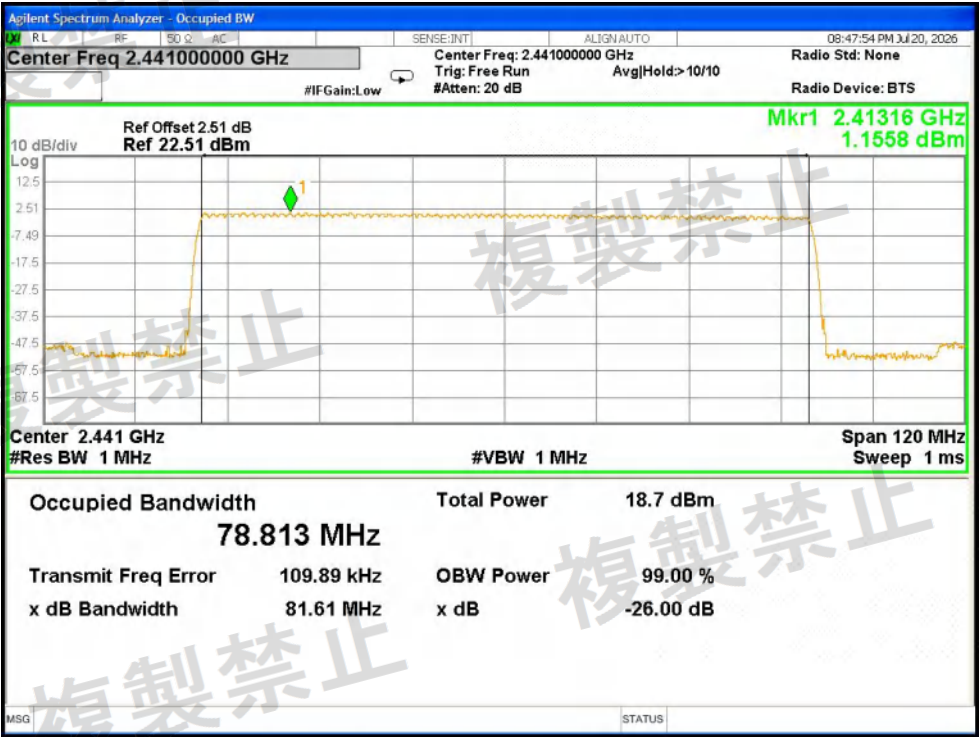
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	78.726
NVNT	2-DH5	2402	Ant1	78.801
NVNT	3-DH5	2402	Ant1	78.813



OBW (Hopping) NVNT 1-DH5 2402MHz Ant1



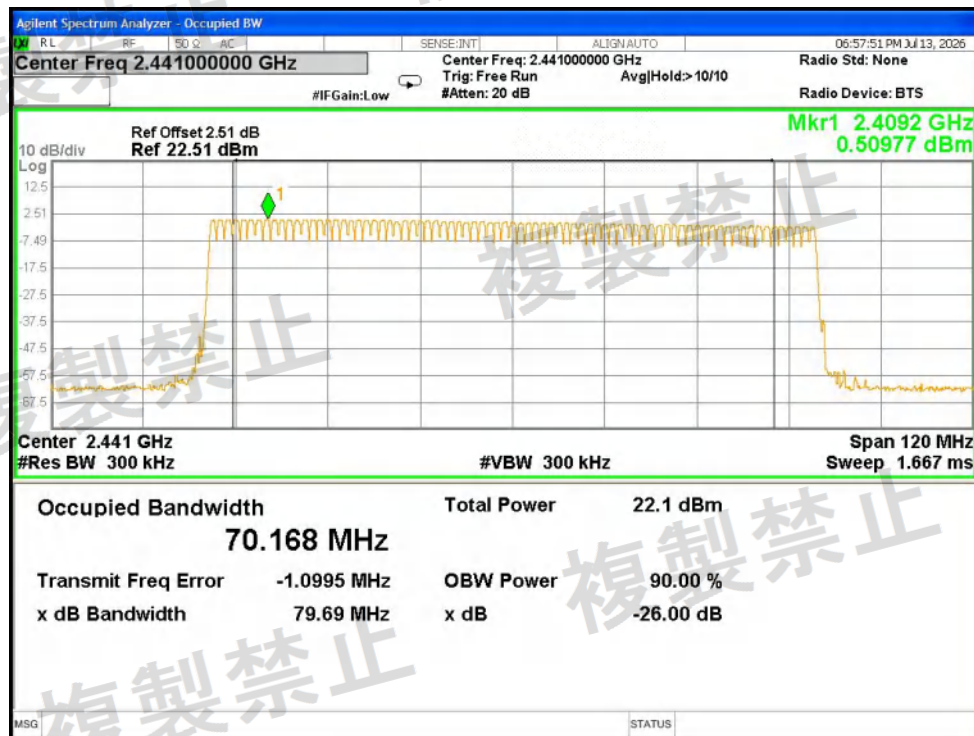
OBW (Hopping) NVNT 2-DH5 2402MHz Ant1



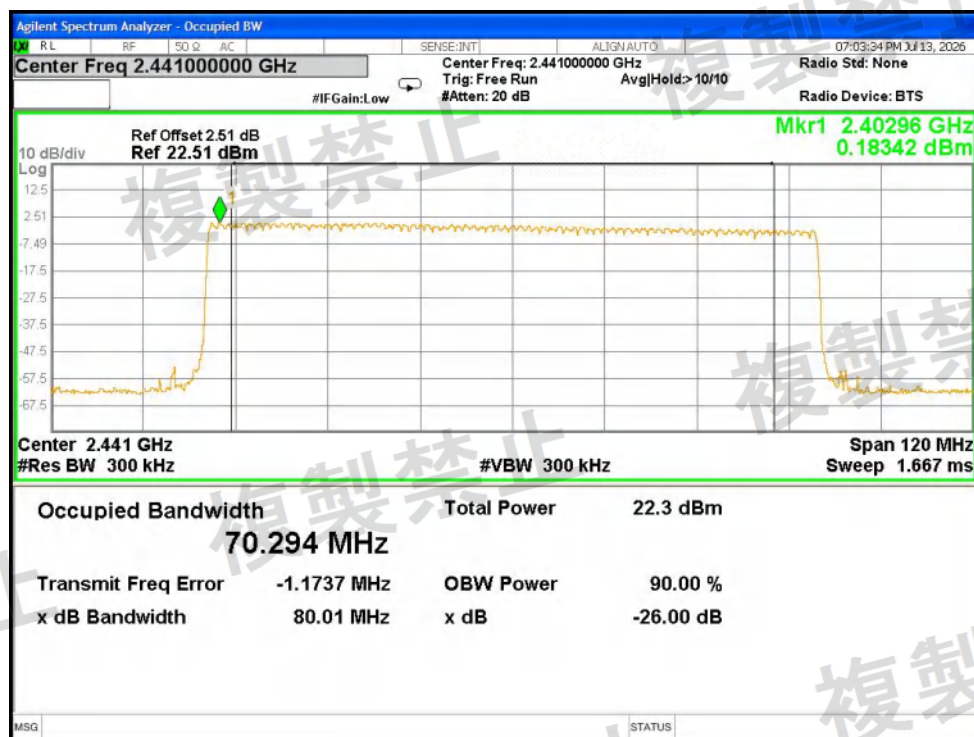
OBW (Hopping) NVNT 3-DH5 2402MHz Ant1

5. Spreading Bandwidth

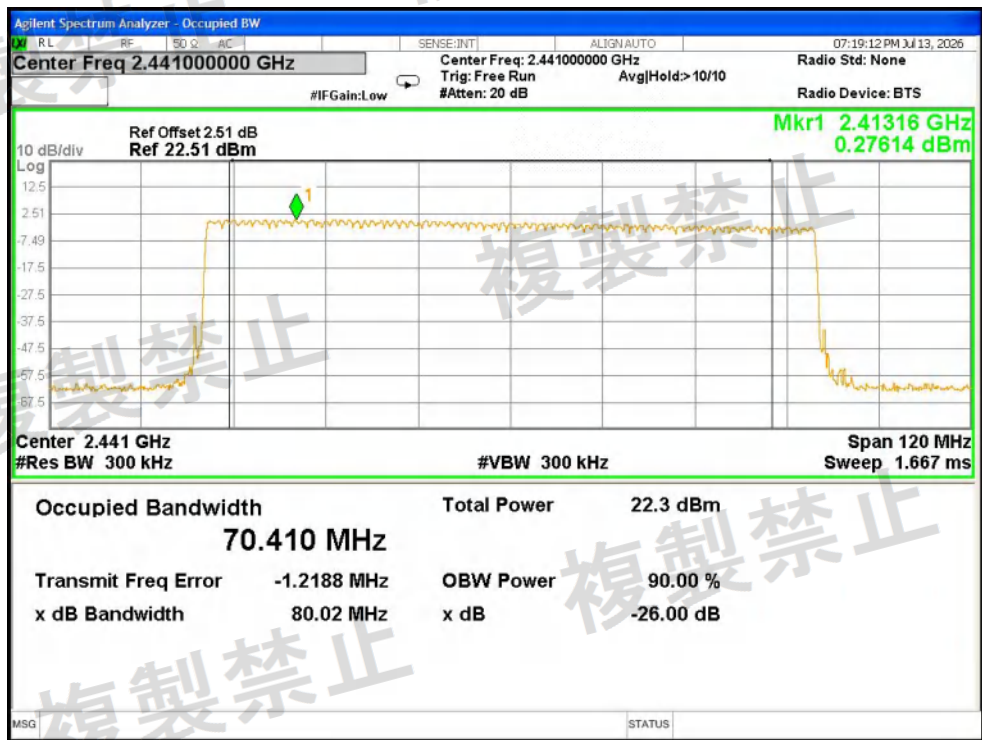
Condition	Mode	Frequency (MHz)	Antenna	90% OBW (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	70.168	0.5	Pass
NVNT	2-DH5	2402	Ant1	70.295	0.5	Pass
NVNT	3-DH5	2402	Ant1	70.416	0.5	Pass



Spreading Bandwidth NVNT 1-DH5 2402MHz Ant1



Spreading Bandwidth NVNT 2-DH5 2402MHz Ant1

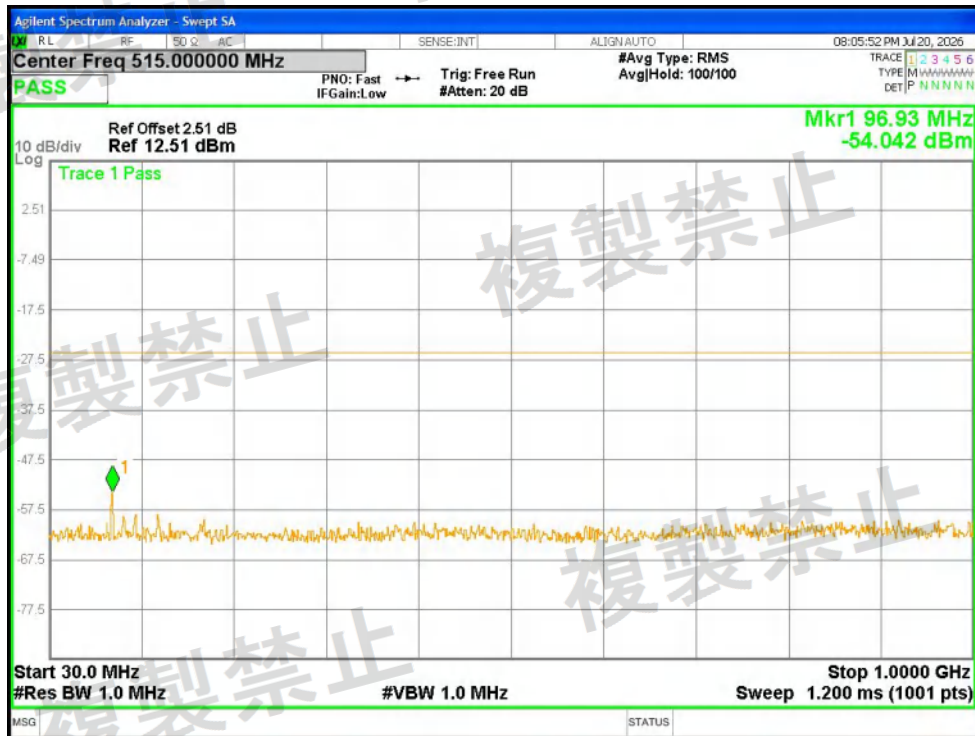


Spreading Bandwidth NVNT 3-DH5 2402MHz Ant1

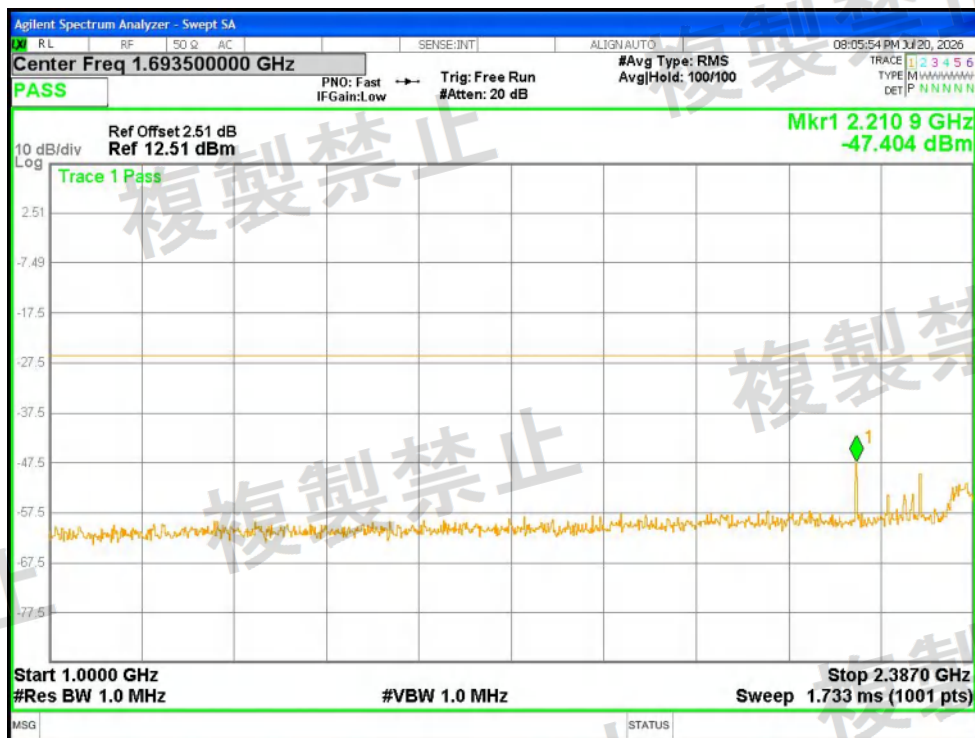
6. Tx Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (uW/MHz)	Max RMS Value (uW/MHz)	Limit Start(uW/MHz)	Limit Stop (uW/MHz)	Verdict
NVNT	1-DH5	2402	Ant1	30-1000	96.93	-54.04	NA	0.0039	NA	2.5	2.5	Pass
NVNT	1-DH5	2402	Ant1	1000-2387	2210.85	-47.40	NA	0.0182	NA	2.5	2.5	Pass
NVNT	1-DH5	2402	Ant1	2387-2400	2399.87	-37.83	NA	0.1648	NA	25	25	Pass
NVNT	1-DH5	2402	Ant1	2483.5-2496.5	2496.47	-55.18	NA	0.003	NA	25	25	Pass
NVNT	1-DH5	2402	Ant1	2496.5-13000	9607.37	-39.68	NA	0.1076	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	Ant1	30-1000	96.93	-56.40	NA	0.0023	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	Ant1	1000-2387	2249.69	-45.98	NA	0.0252	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	Ant1	2387-2400	2392.95	-49.88	NA	0.0103	NA	25	25	Pass
NVNT	1-DH5	2441	Ant1	2483.5-2496.5	2489.23	-49.37	NA	0.0116	NA	25	25	Pass
NVNT	1-DH5	2441	Ant1	2496.5-13000	9764.92	-39.40	NA	0.1148	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	Ant1	30-1000	96.93	-56.22	NA	0.0024	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	Ant1	1000-2387	2288.52	-43.88	NA	0.0409	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	Ant1	2387-2400	2394.89	-55.70	NA	0.0027	NA	25	25	Pass
NVNT	1-DH5	2480	Ant1	2483.5-2496.5	2483.55	-52.81	NA	0.0052	NA	25	25	Pass
NVNT	1-DH5	2480	Ant1	2496.5-13000	9922.47	-39.70	NA	0.1072	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	Ant1	30-1000	96.93	-56.91	NA	0.002	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	Ant1	1000-2387	2210.85	-48.10	NA	0.0155	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	Ant1	2387-2400	2399.90	-34.94	NA	0.3206	NA	25	25	Pass
NVNT	2-DH5	2402	Ant1	2483.5-2496.5	2486.01	-55.92	NA	0.0026	NA	25	25	Pass
NVNT	2-DH5	2402	Ant1	2496.5-13000	9607.37	-39.75	NA	0.1059	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	Ant1	30-1000	96.93	-56.06	NA	0.0025	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	Ant1	1000-2387	2249.69	-46.57	NA	0.022	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	Ant1	2387-2400	2393.08	-49.70	NA	0.0107	NA	25	25	Pass
NVNT	2-DH5	2441	Ant1	2483.5-2496.5	2489.23	-50.34	NA	0.0092	NA	25	25	Pass
NVNT	2-DH5	2441	Ant1	2496.5-13000	9764.92	-39.32	NA	0.1169	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	Ant1	30-1000	96.93	-56.11	NA	0.0024	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	Ant1	1000-2387	2288.52	-45.26	NA	0.0298	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	Ant1	2387-2400	2398.71	-55.19	NA	0.003	NA	25	25	Pass
NVNT	2-DH5	2480	Ant1	2483.5-2496.5	2483.76	-44.97	NA	0.0318	NA	25	25	Pass
NVNT	2-DH5	2480	Ant1	2496.5-13000	9922.47	-39.83	NA	0.104	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	Ant1	30-1000	96.93	-54.71	NA	0.0034	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	Ant1	1000-2387	2210.85	-48.52	NA	0.0141	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	Ant1	2387-2400	2399.96	-34.19	NA	0.3811	NA	25	25	Pass
NVNT	3-DH5	2402	Ant1	2483.5-2496.5	2496.44	-55.76	NA	0.0027	NA	25	25	Pass
NVNT	3-DH5	2402	Ant1	2496.5-13000	9607.37	-39.57	NA	0.1104	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	Ant1	30-1000	96.93	-54.49	NA	0.0036	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	Ant1	1000-2387	2249.69	-46.39	NA	0.023	NA	2.5	2.5	Pass

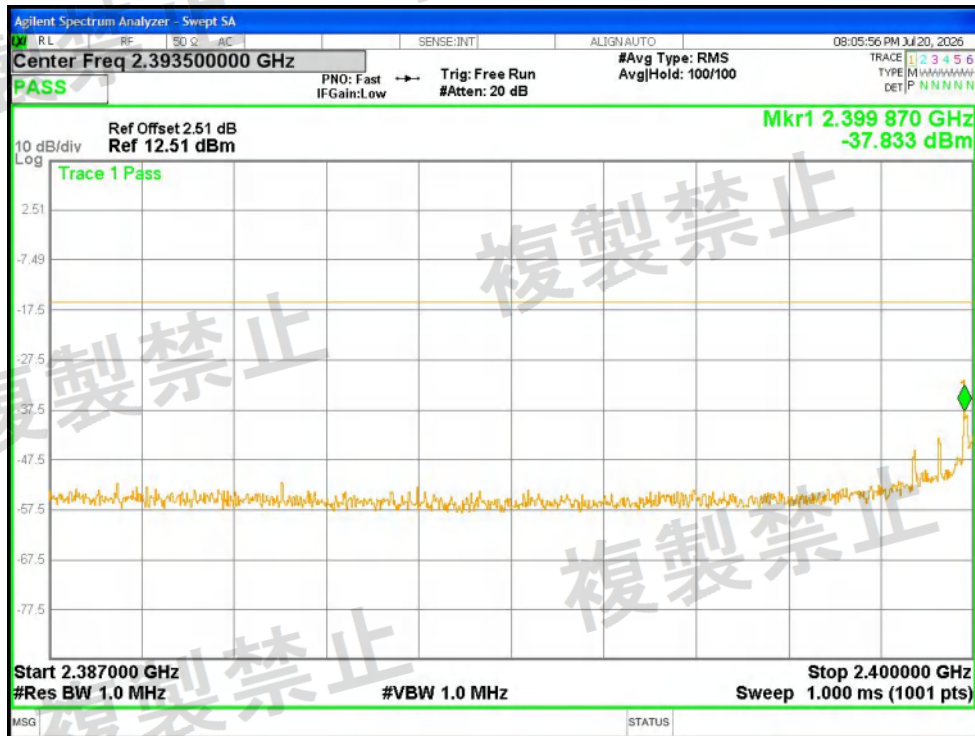
NVNT	3-DH5	2441	Ant1	2387-2400	2395.66	-49.46	NA	0.0113	NA	25	25	Pass
NVNT	3-DH5	2441	Ant1	2483.5-2496.5	2489.19	-50.00	NA	0.01	NA	25	25	Pass
NVNT	3-DH5	2441	Ant1	2496.5-13000	9764.92	-39.47	NA	0.113	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	Ant1	30-1000	96.93	-56.80	NA	0.0021	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	Ant1	1000-2387	2288.52	-45.49	NA	0.0282	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	Ant1	2387-2400	2394.53	-55.67	NA	0.0027	NA	25	25	Pass
NVNT	3-DH5	2480	Ant1	2483.5-2496.5	2486.10	-47.26	NA	0.0188	NA	25	25	Pass
NVNT	3-DH5	2480	Ant1	2496.5-13000	9922.47	-39.74	NA	0.1062	NA	2.5	2.5	Pass



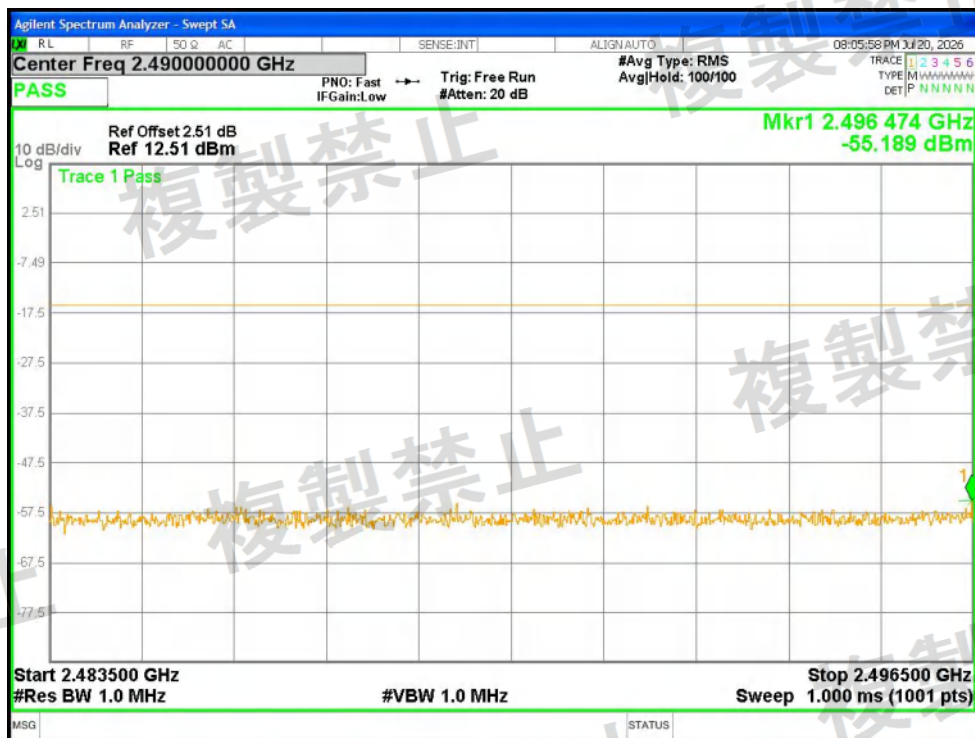
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 30MHz-1000MHz



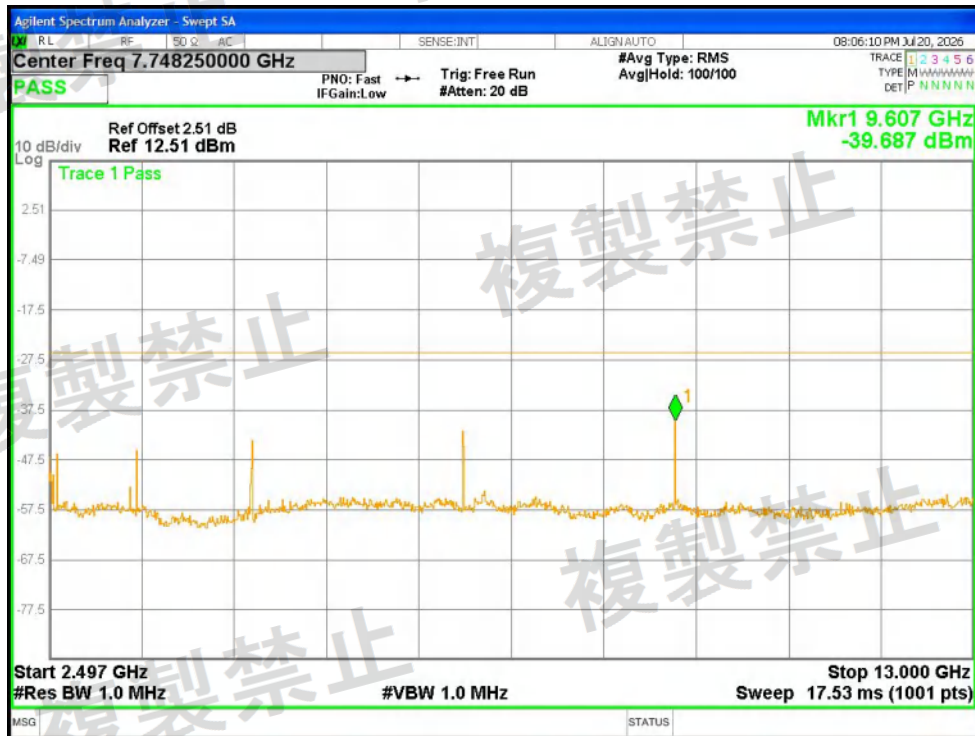
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 1000MHz-2387MHz



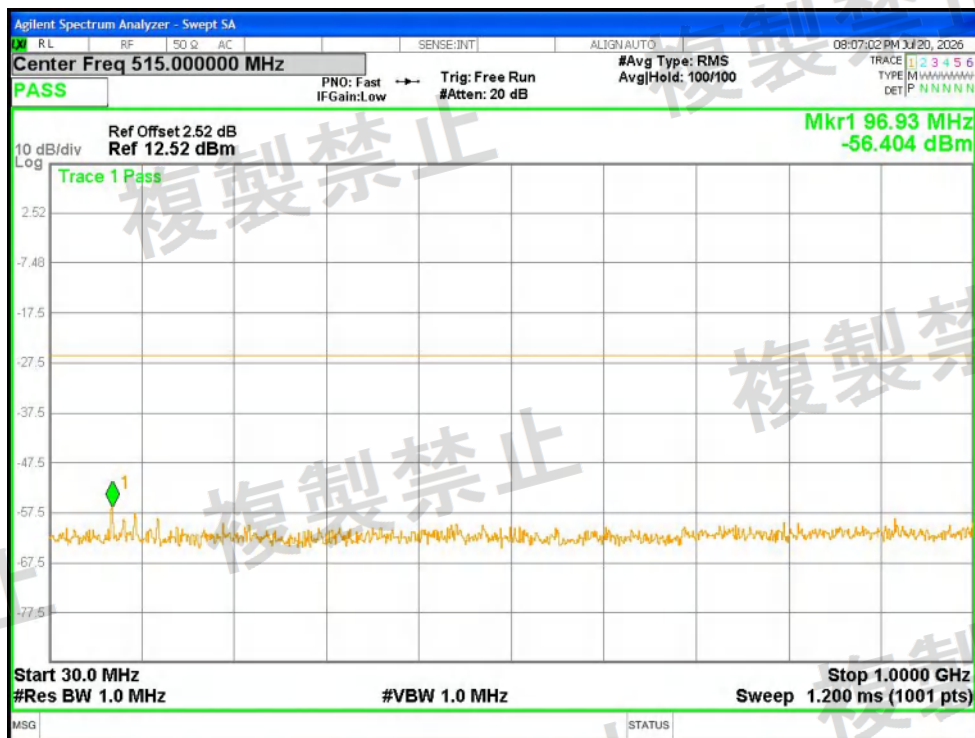
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 2387MHz-2400MHz



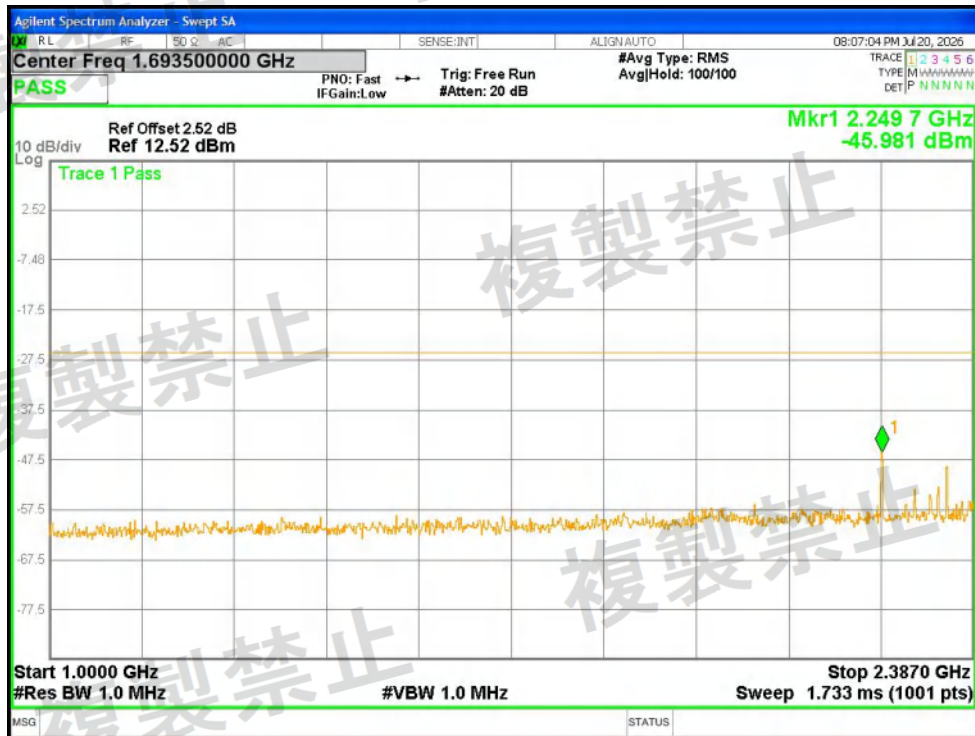
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



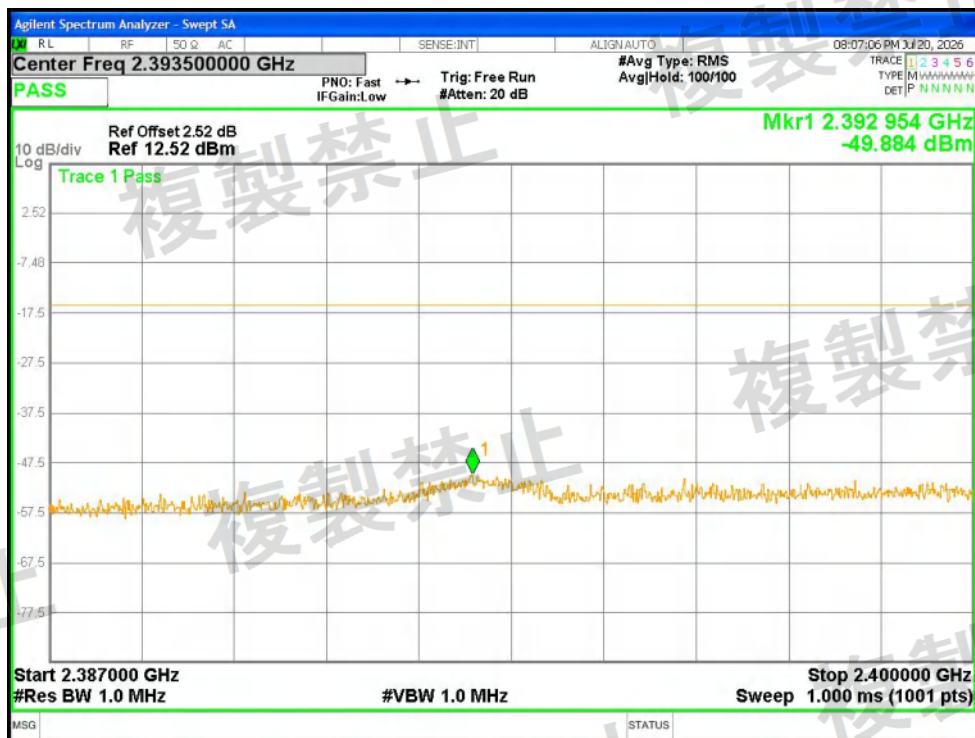
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 2496.5MHz-13000MHz



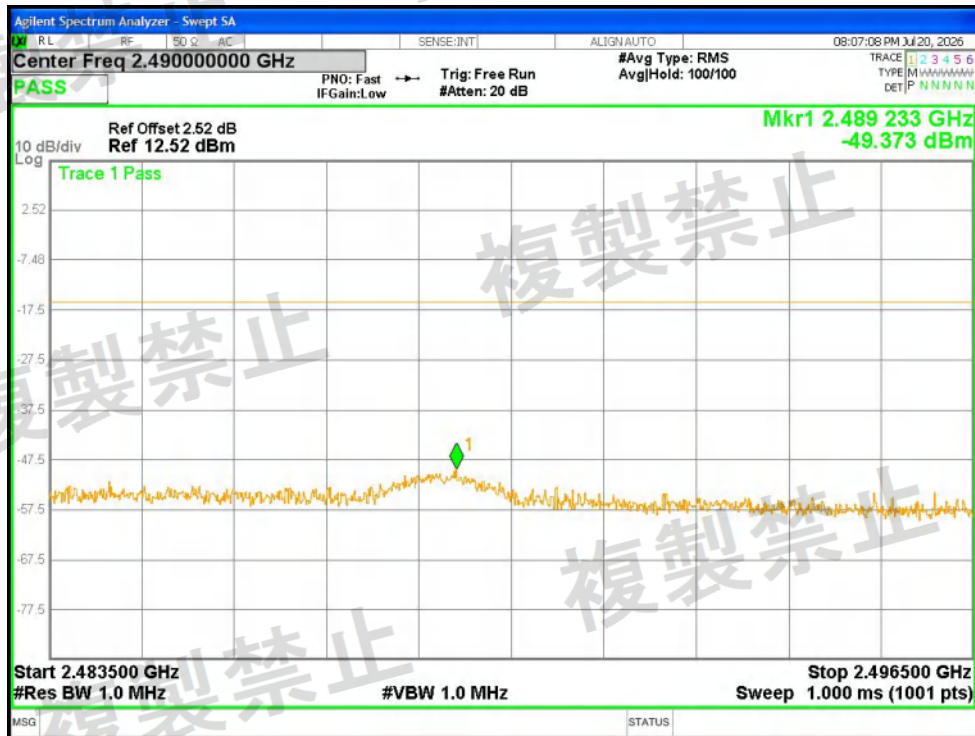
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 30MHz-1000MHz



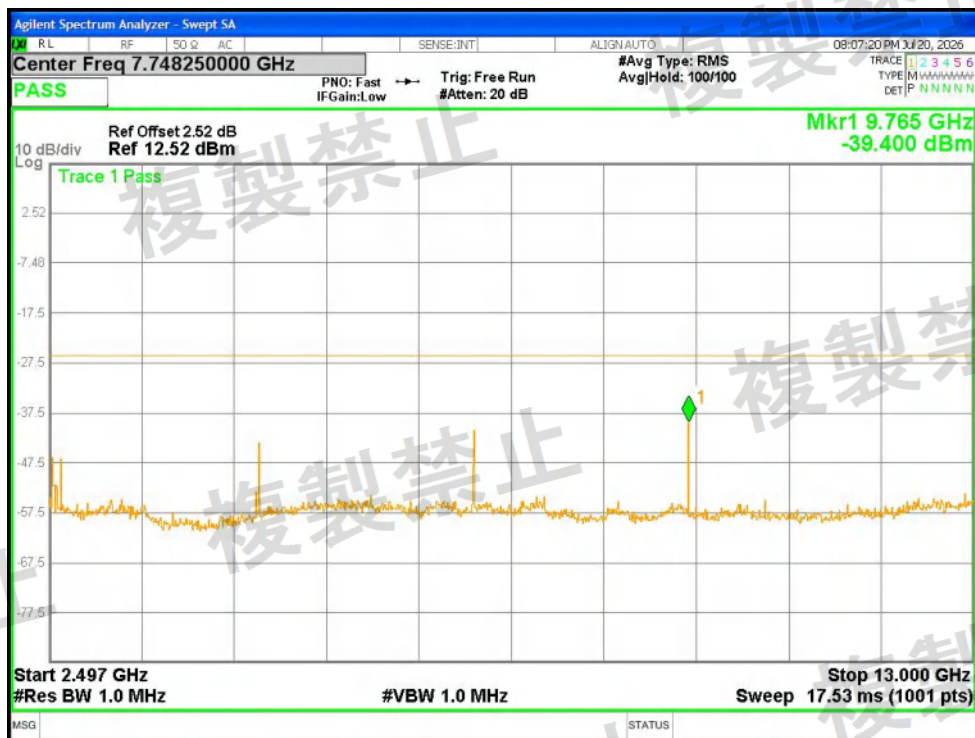
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 1000MHz-2387MHz



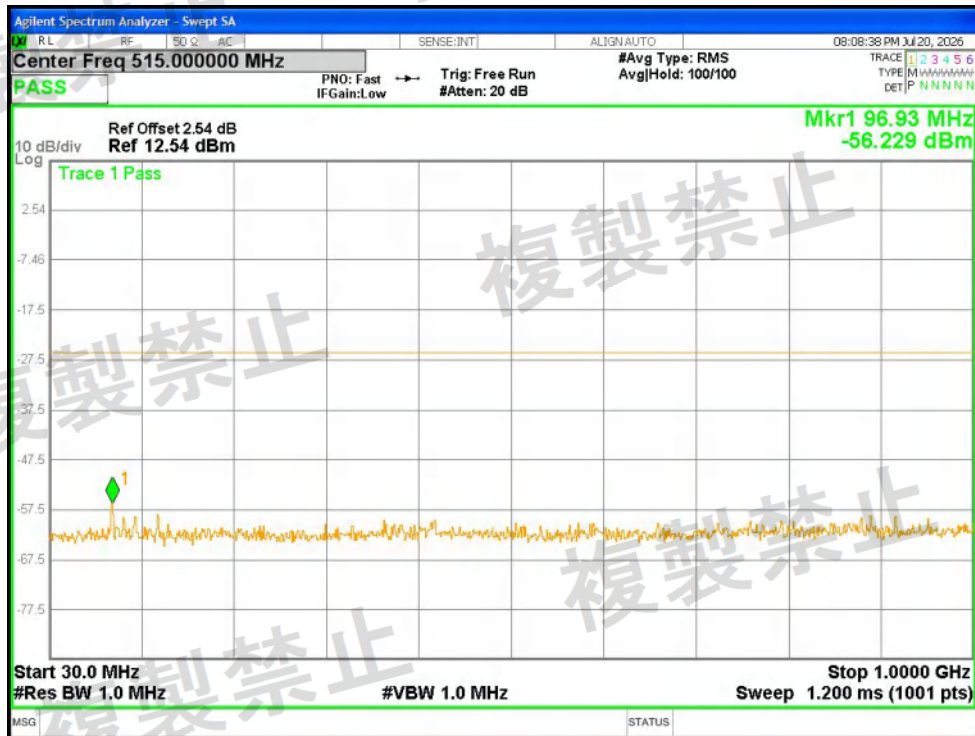
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 2387MHz-2400MHz



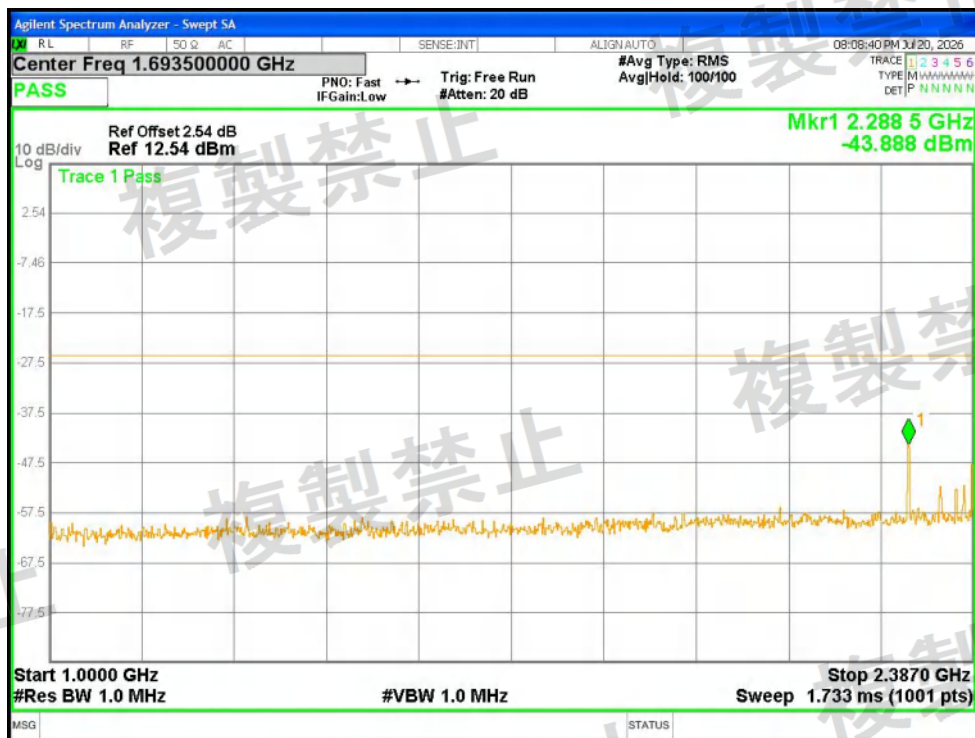
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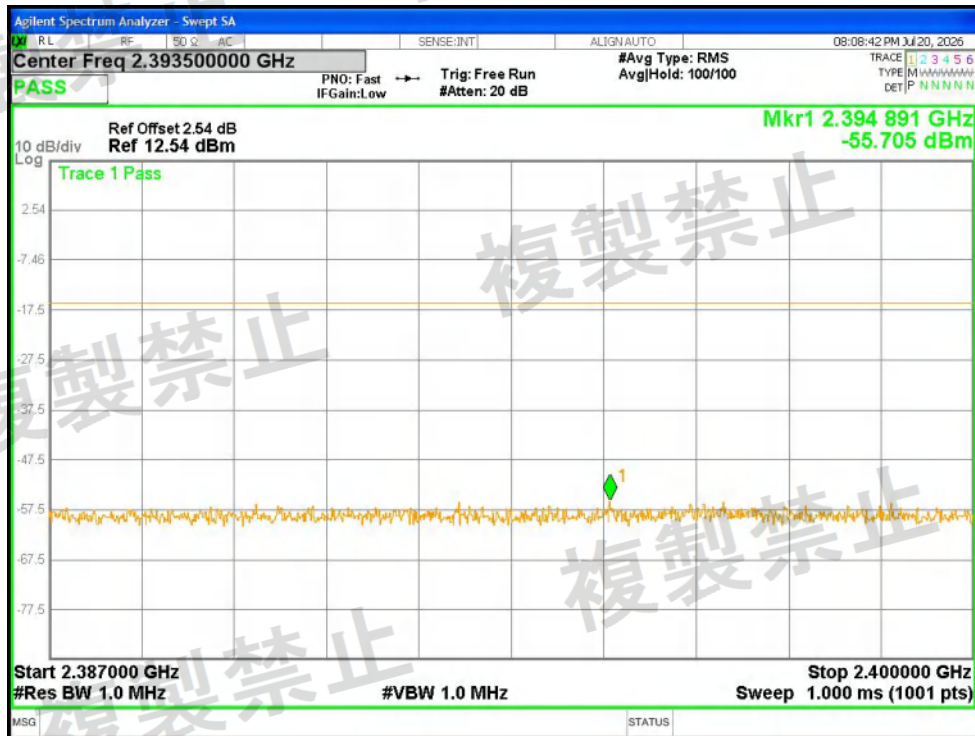
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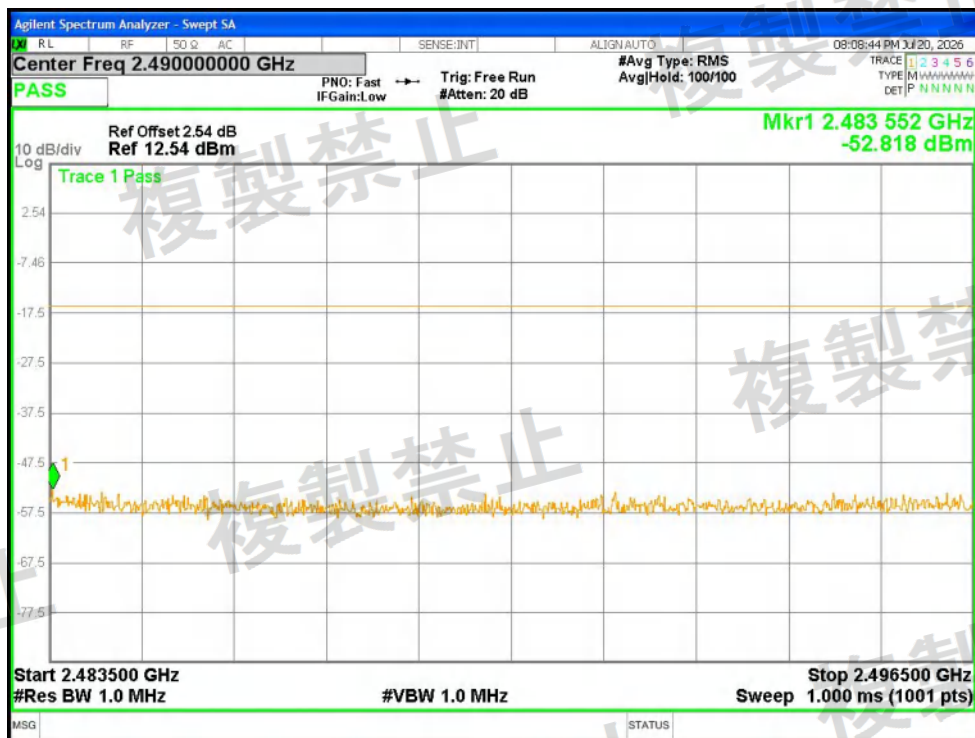
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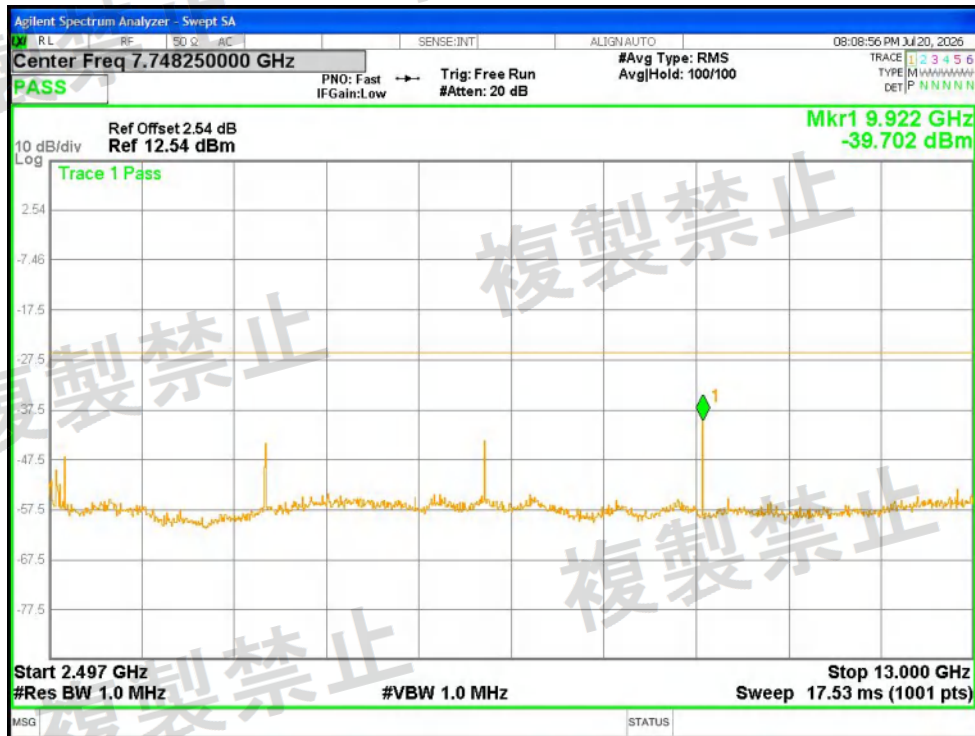
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 1000MHz-2387MHz



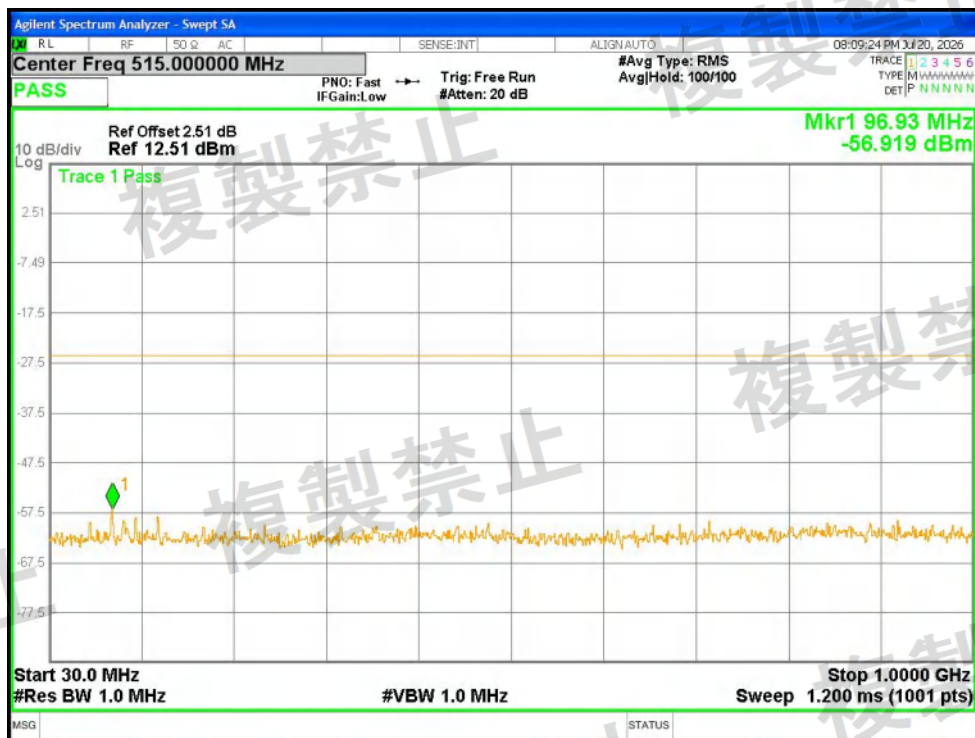
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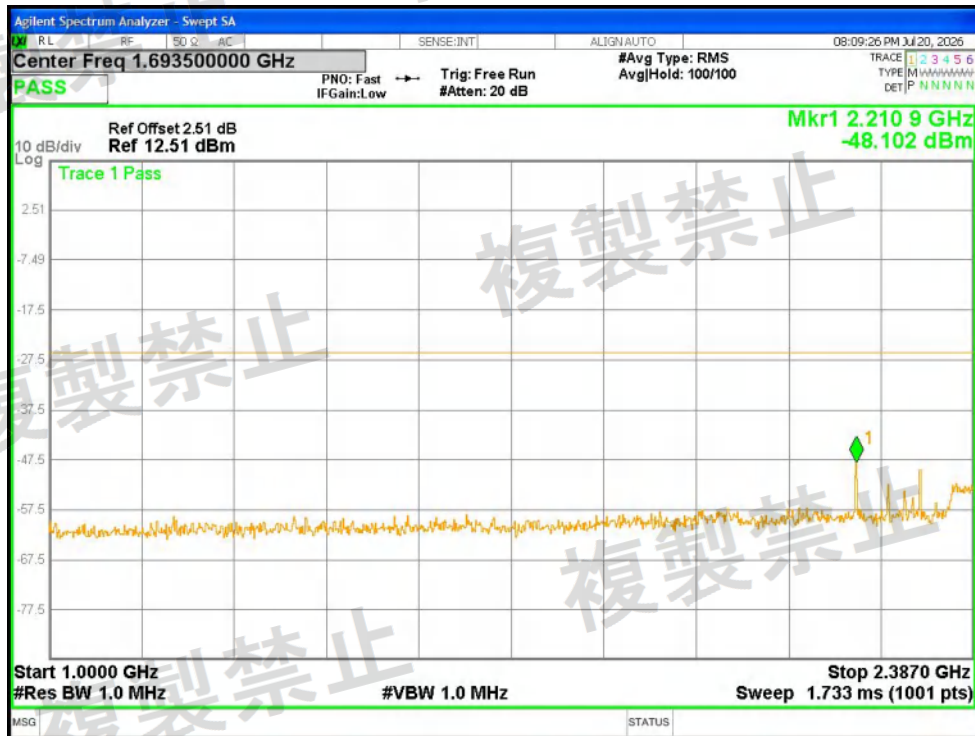
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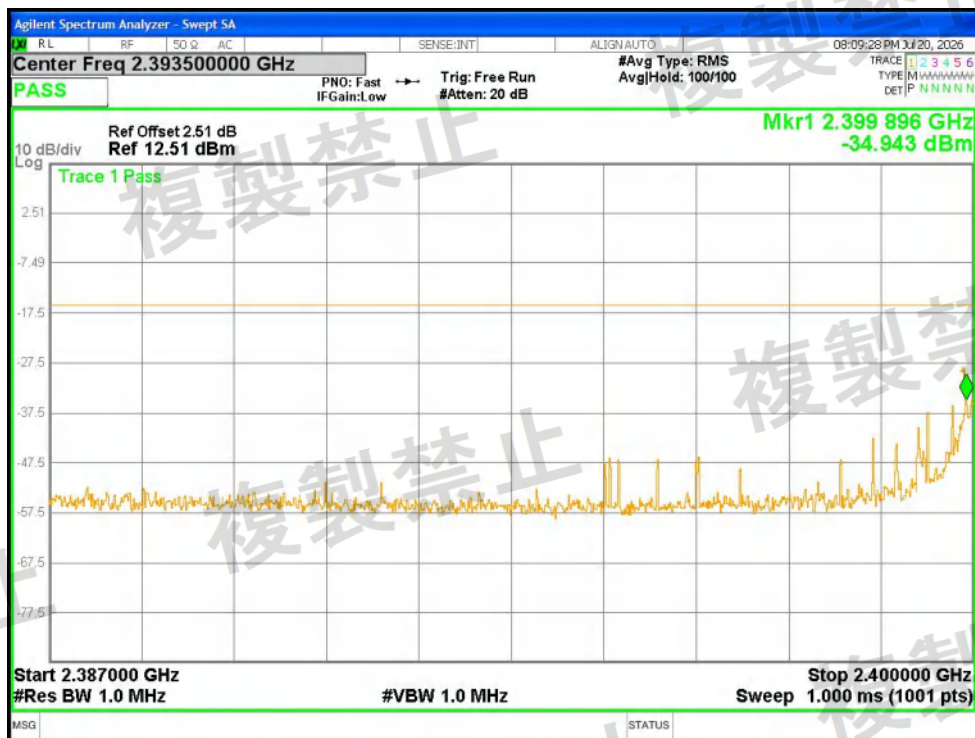
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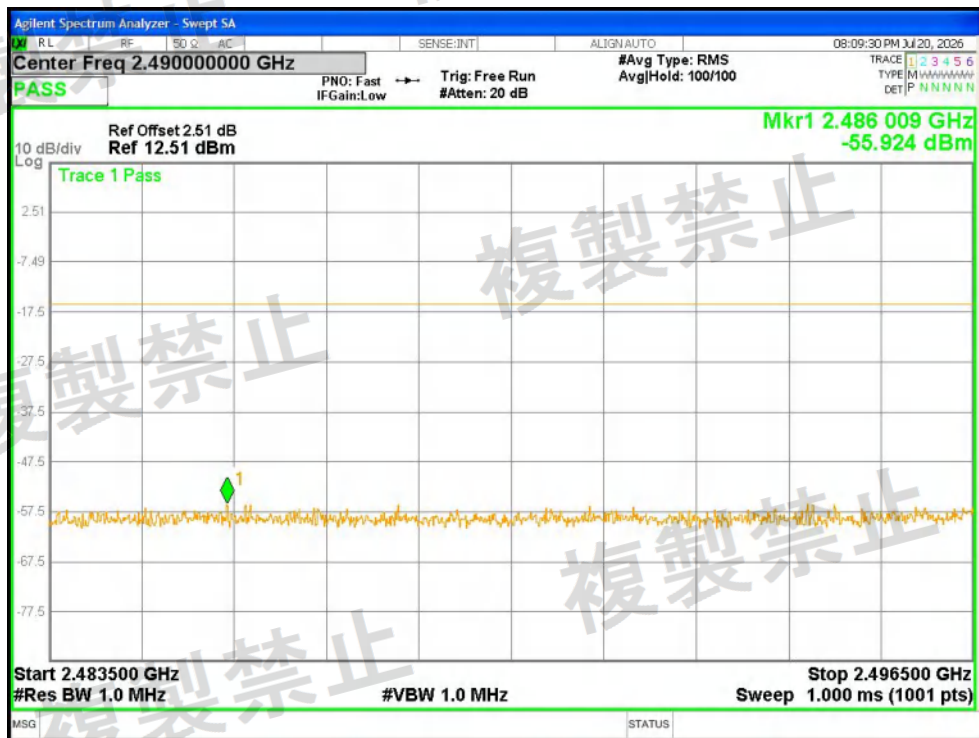
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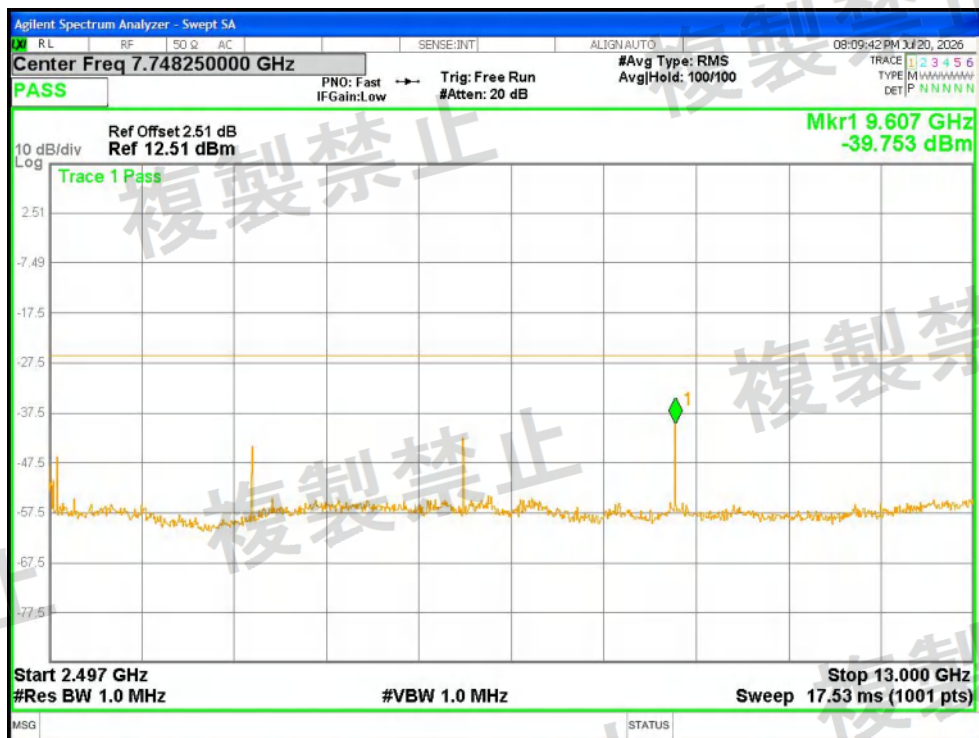
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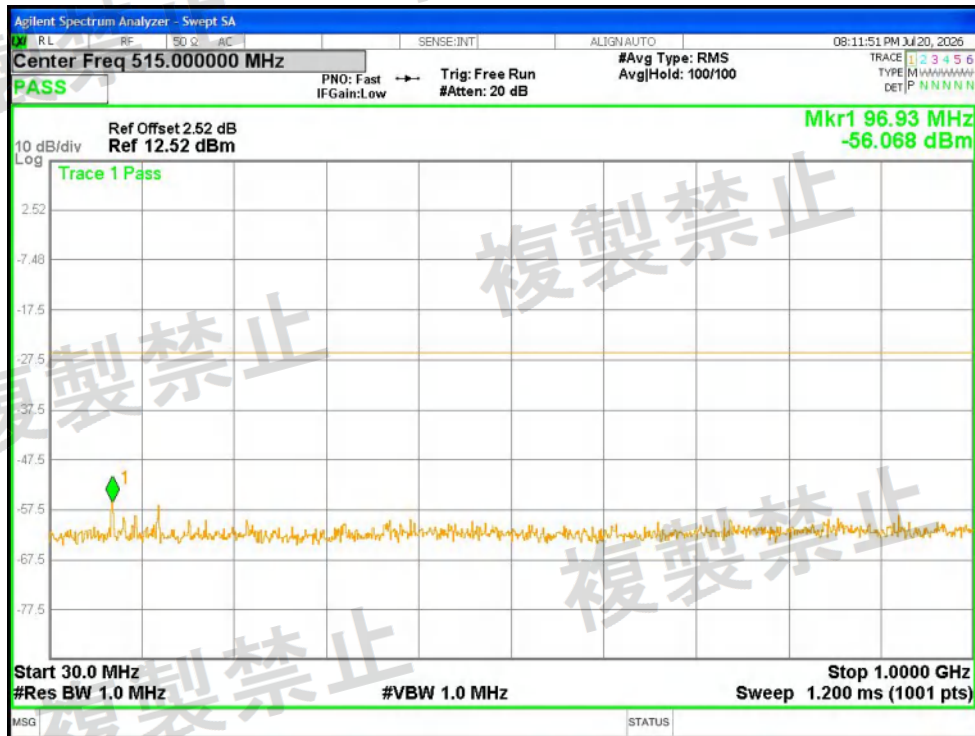
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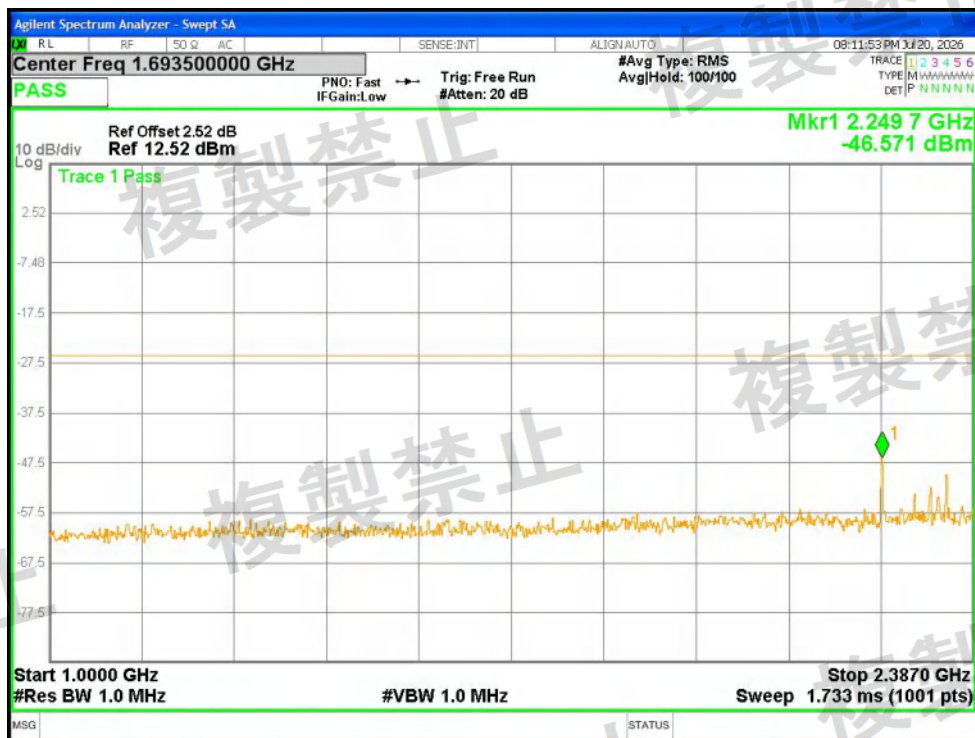
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



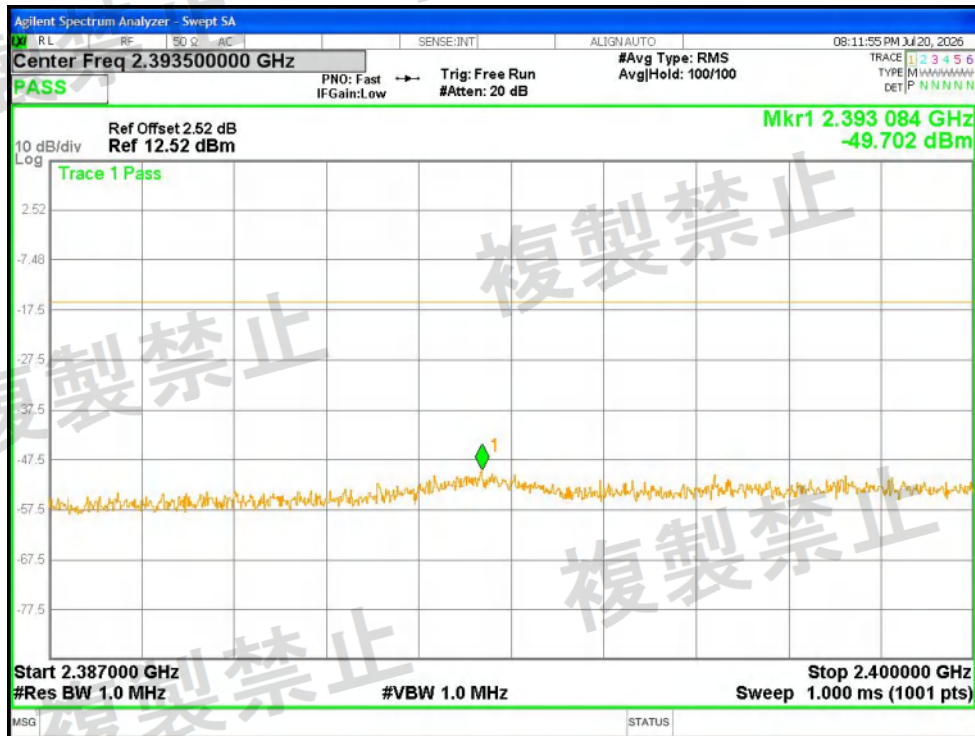
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 2496.5MHz-13000MHz



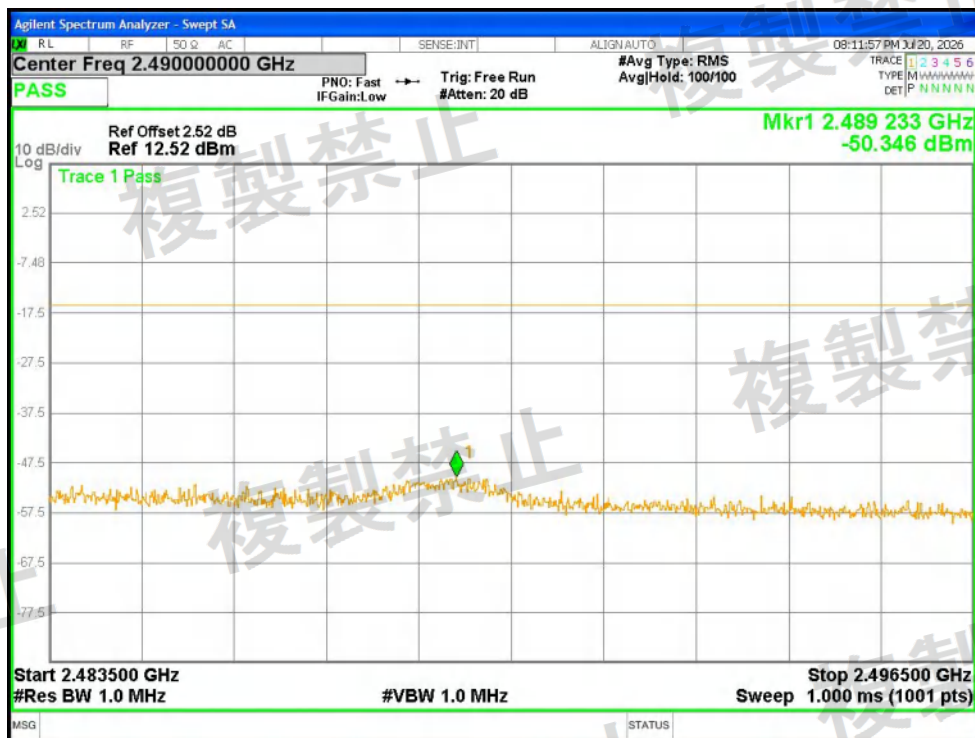
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 30MHz-1000MHz



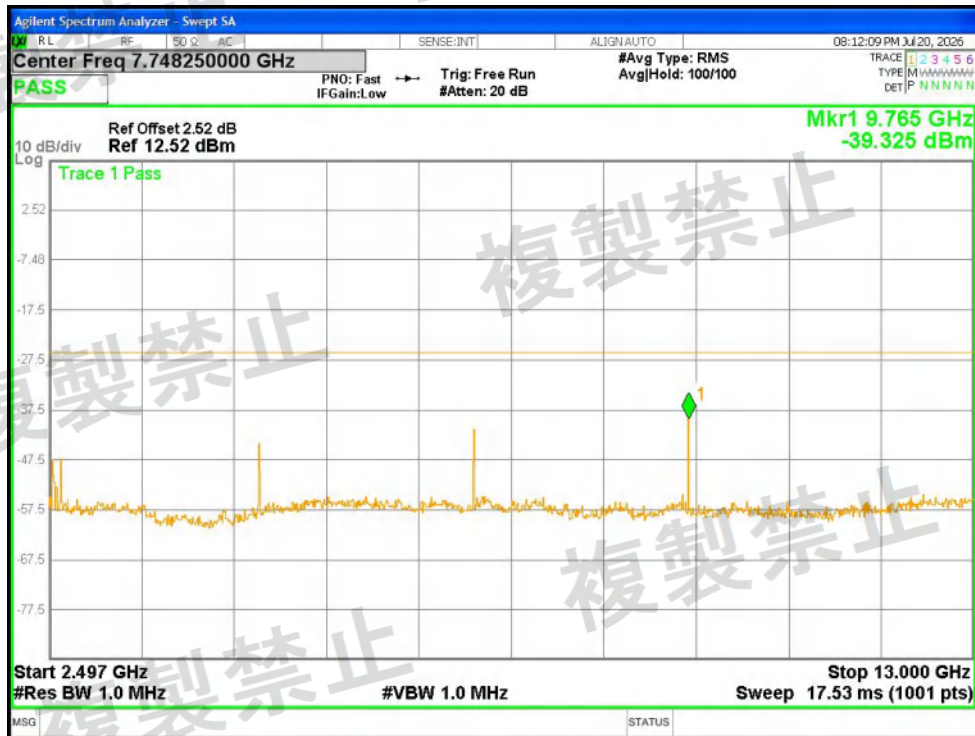
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 1000MHz-2387MHz



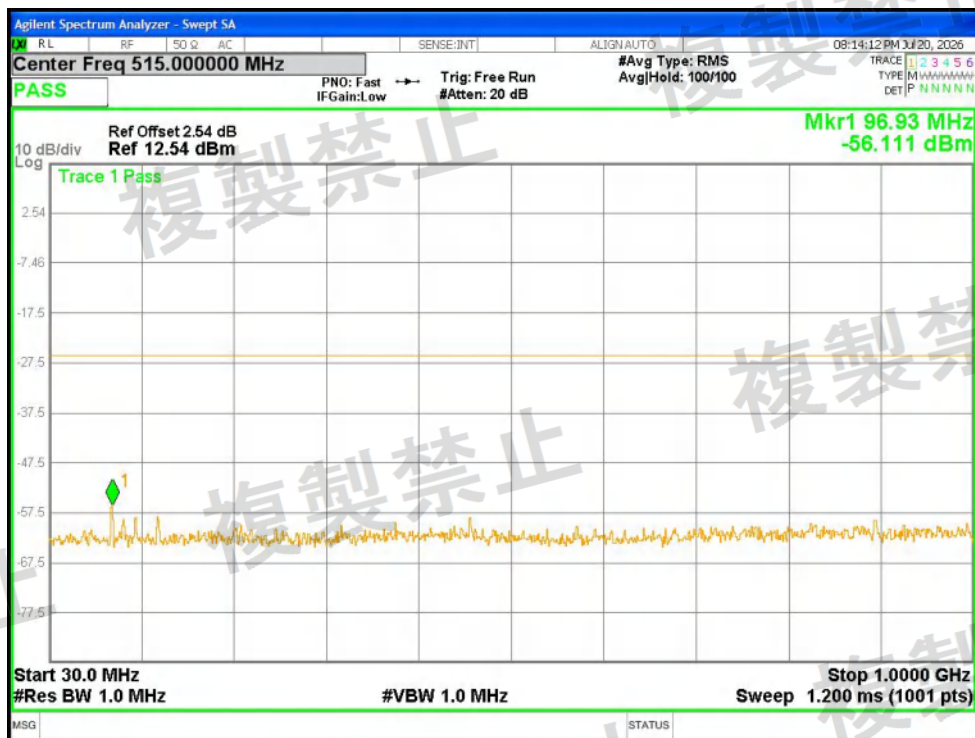
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 2387MHz-2400MHz



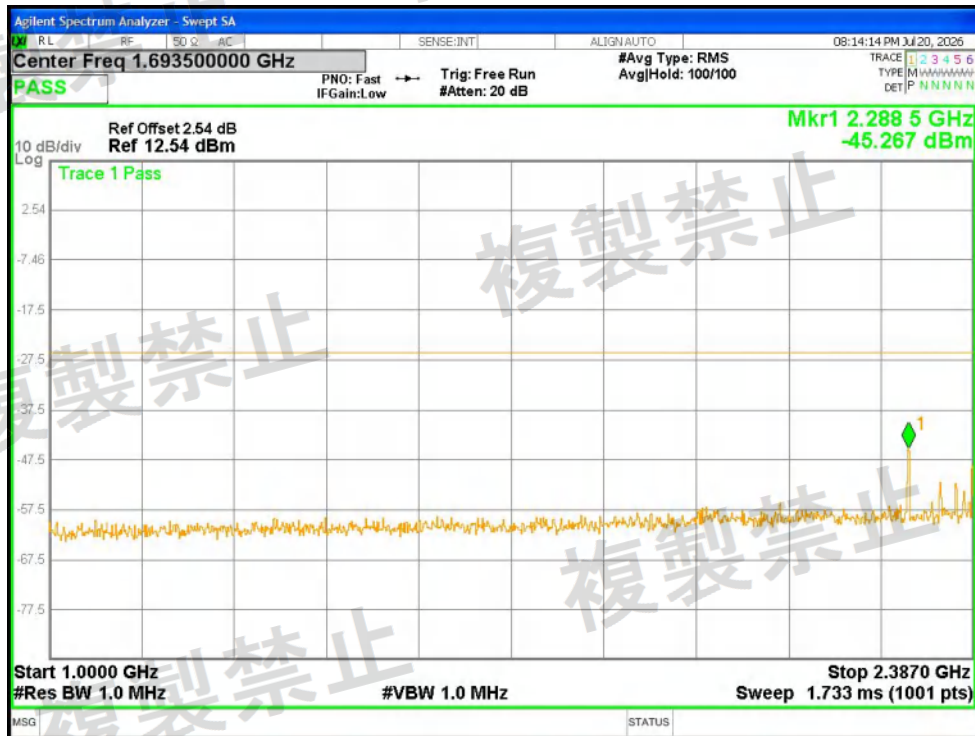
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 2483.5MHz-2496.5MHz



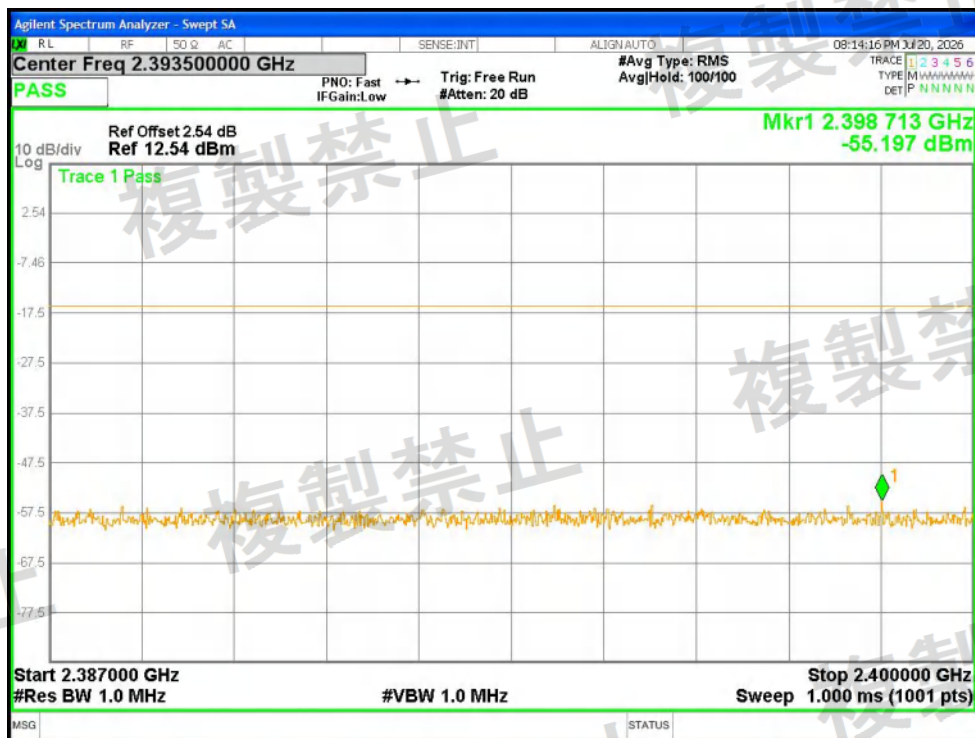
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 2496.5MHz-13000MHz



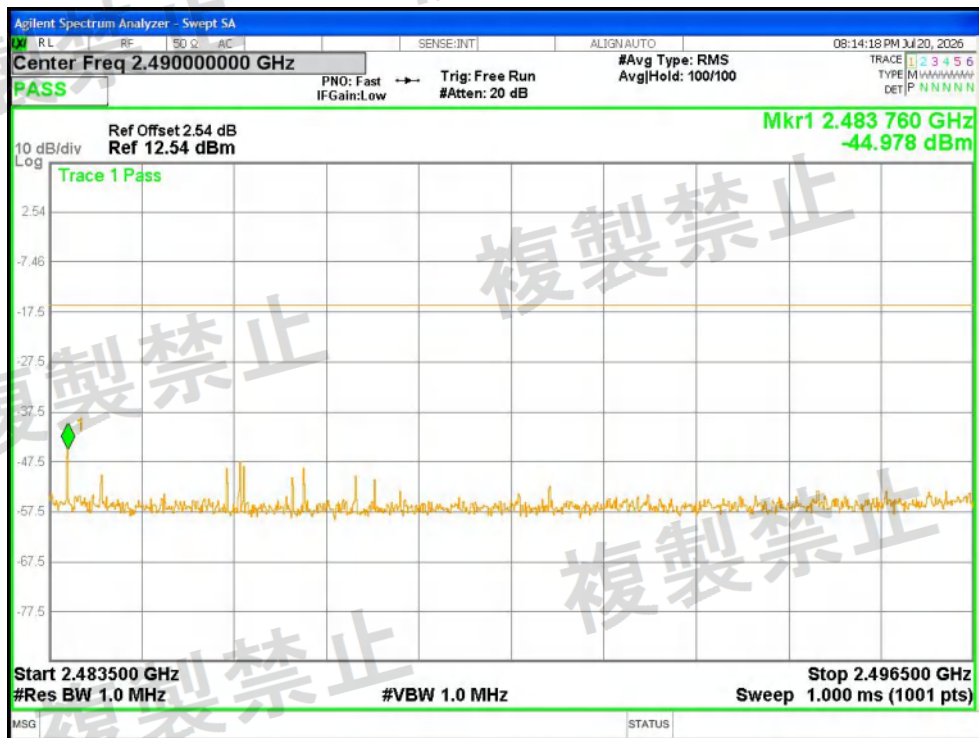
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 30MHz-1000MHz



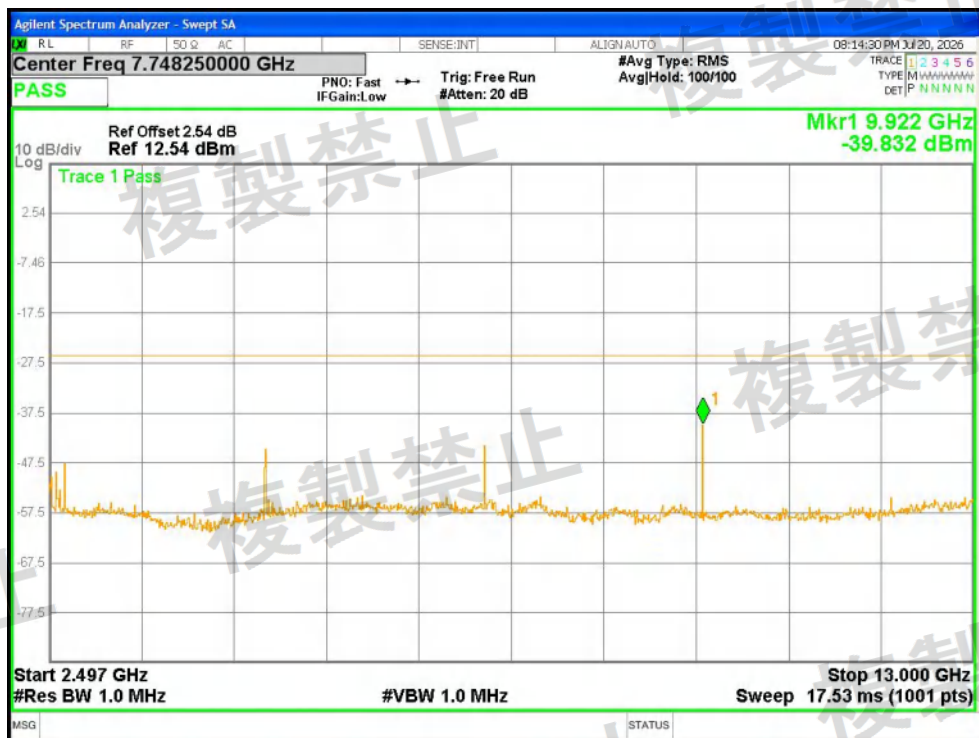
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 1000MHz-2387MHz



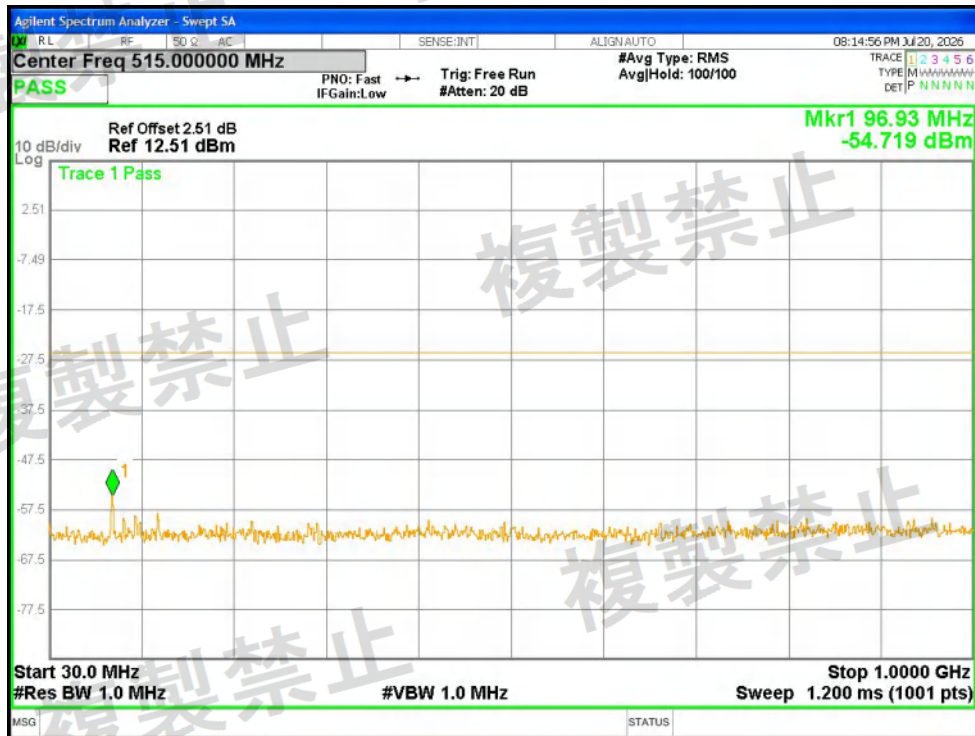
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 2387MHz-2400MHz



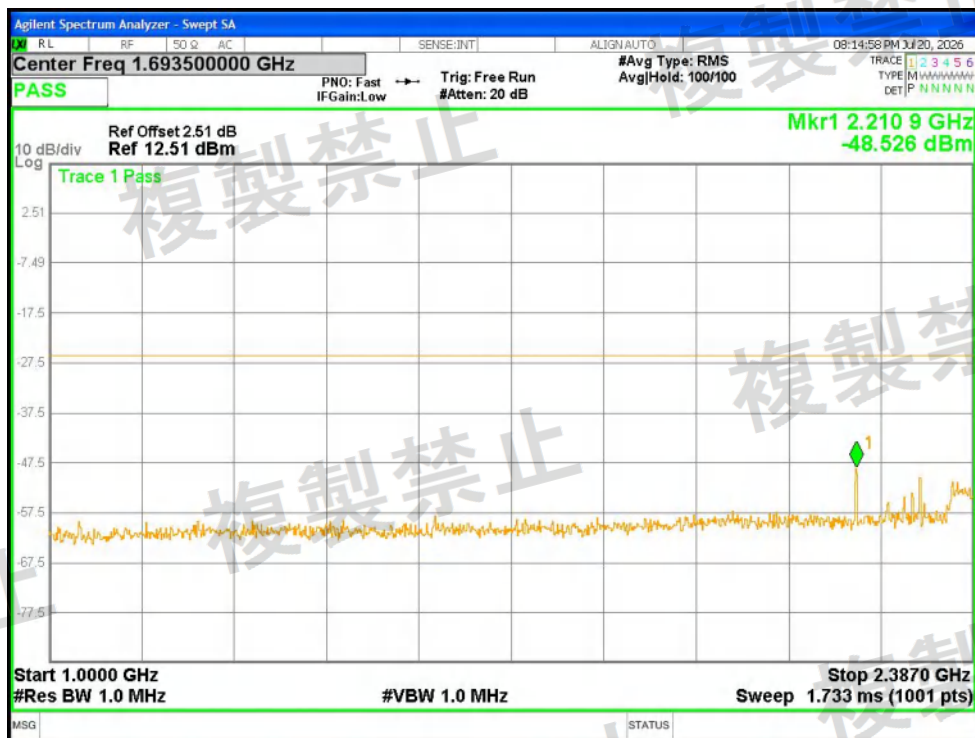
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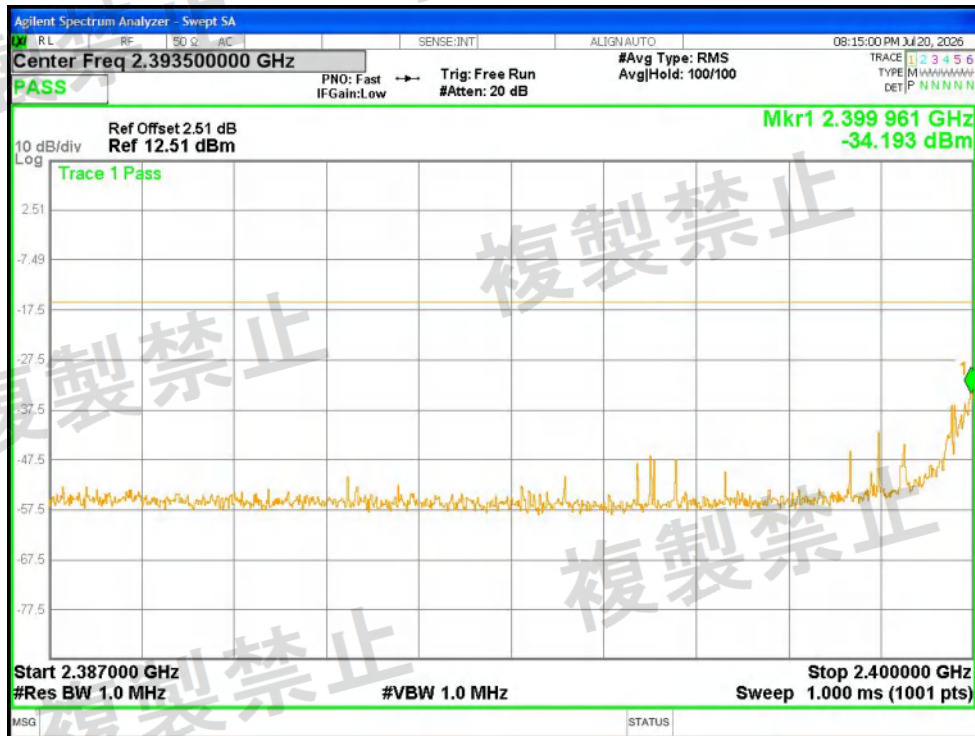
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 2496.5MHz-13000MHz



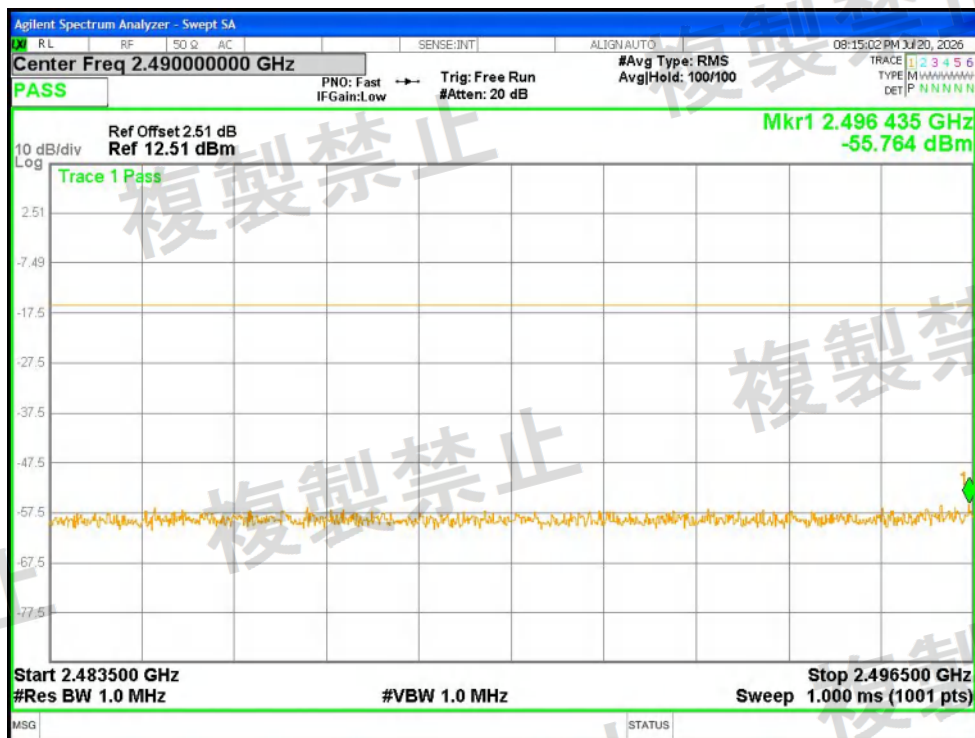
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 30MHz-1000MHz



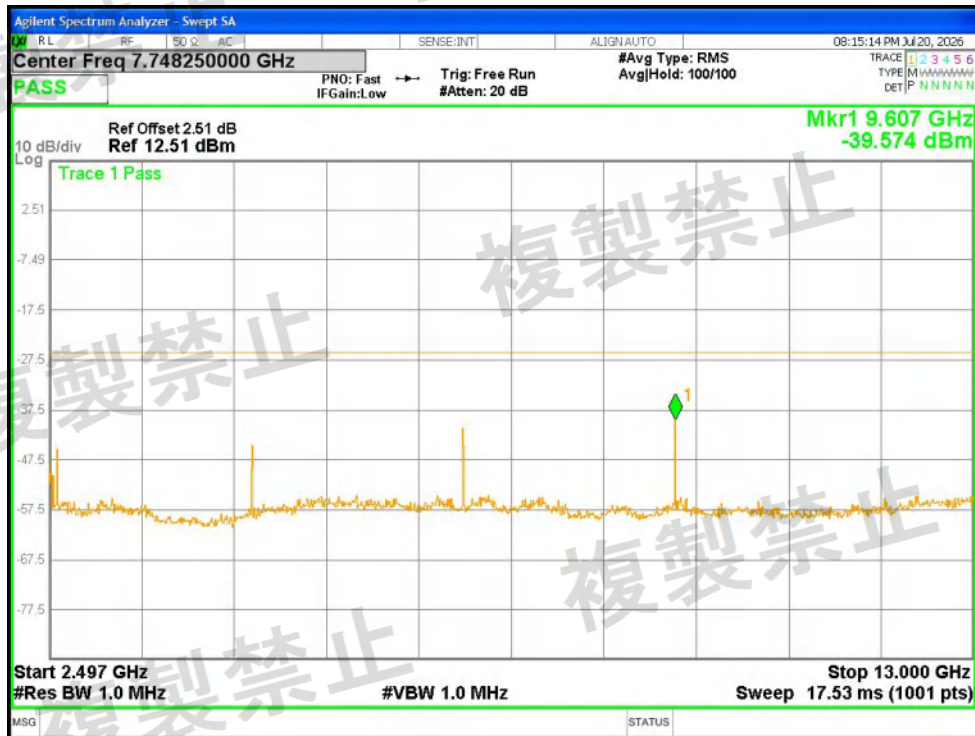
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 1000MHz-2387MHz



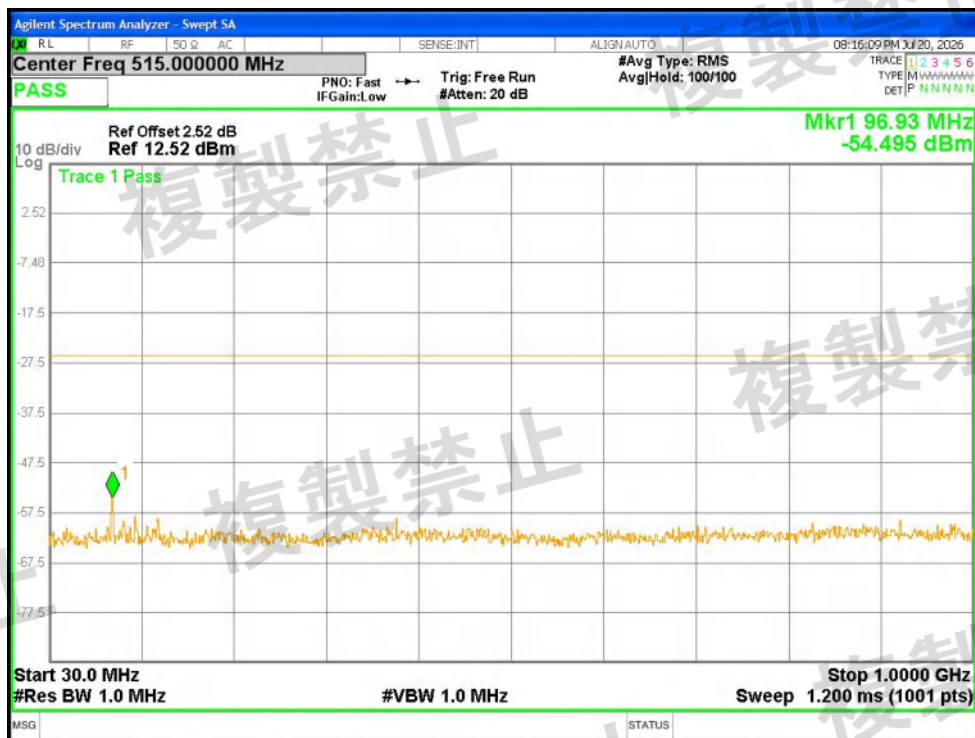
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 2387MHz-2400MHz



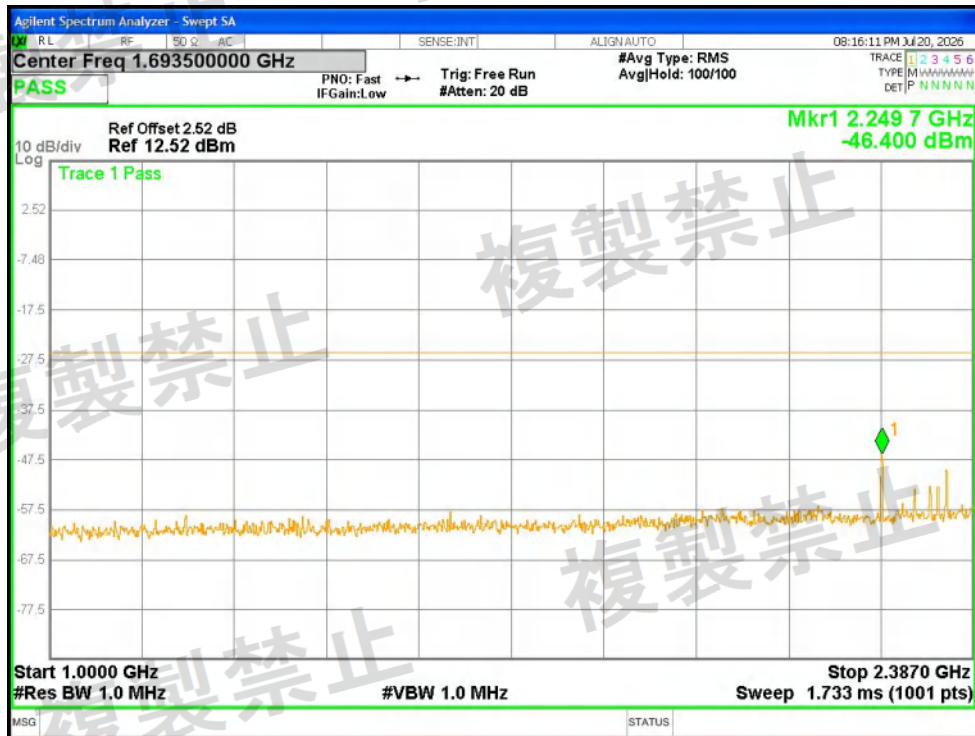
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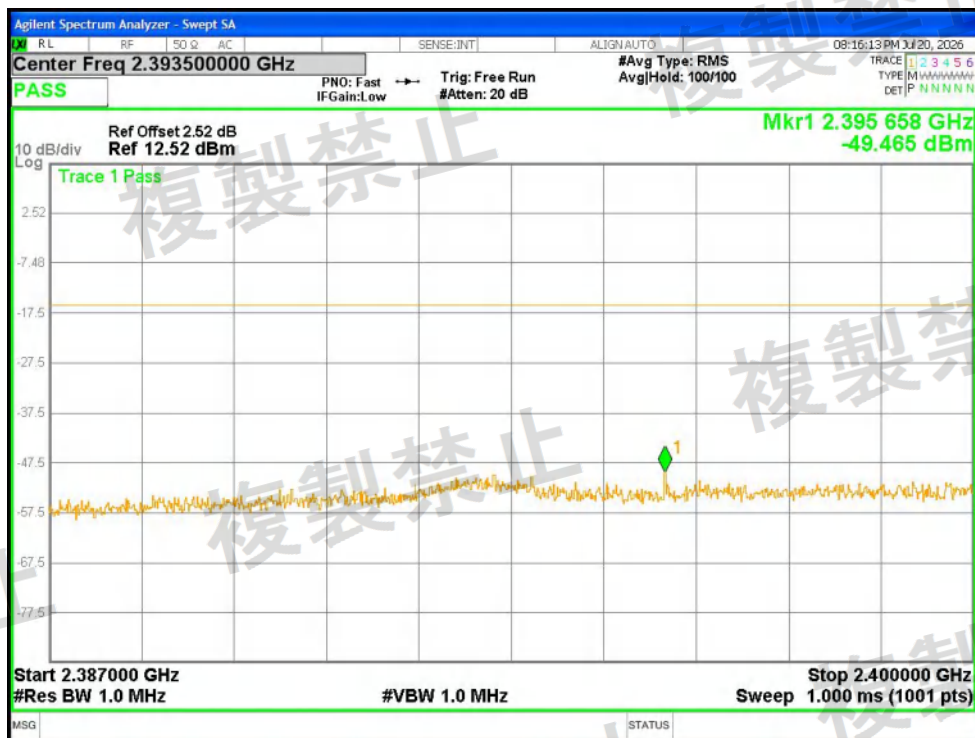
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 2496.5MHz-13000MHz



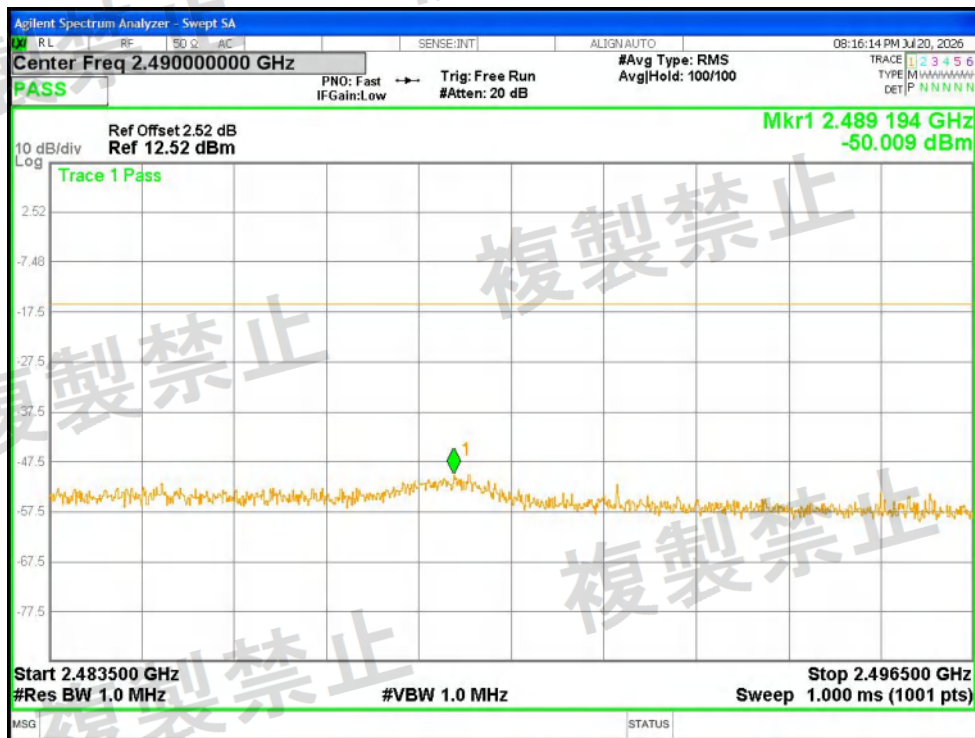
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 30MHz-1000MHz



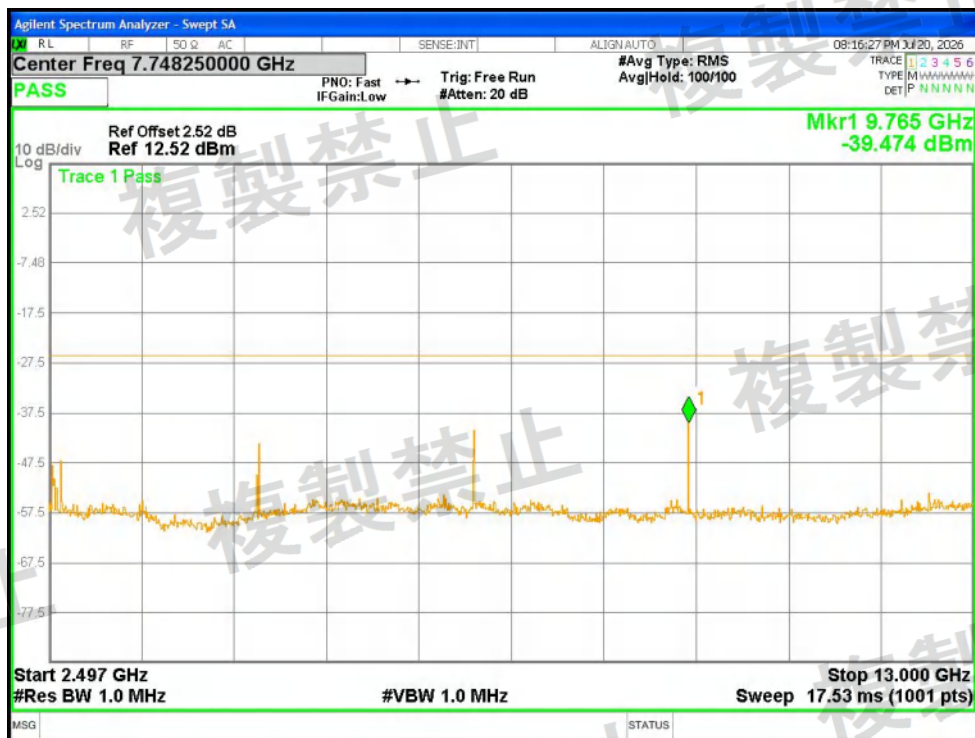
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 1000MHz-2387MHz



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



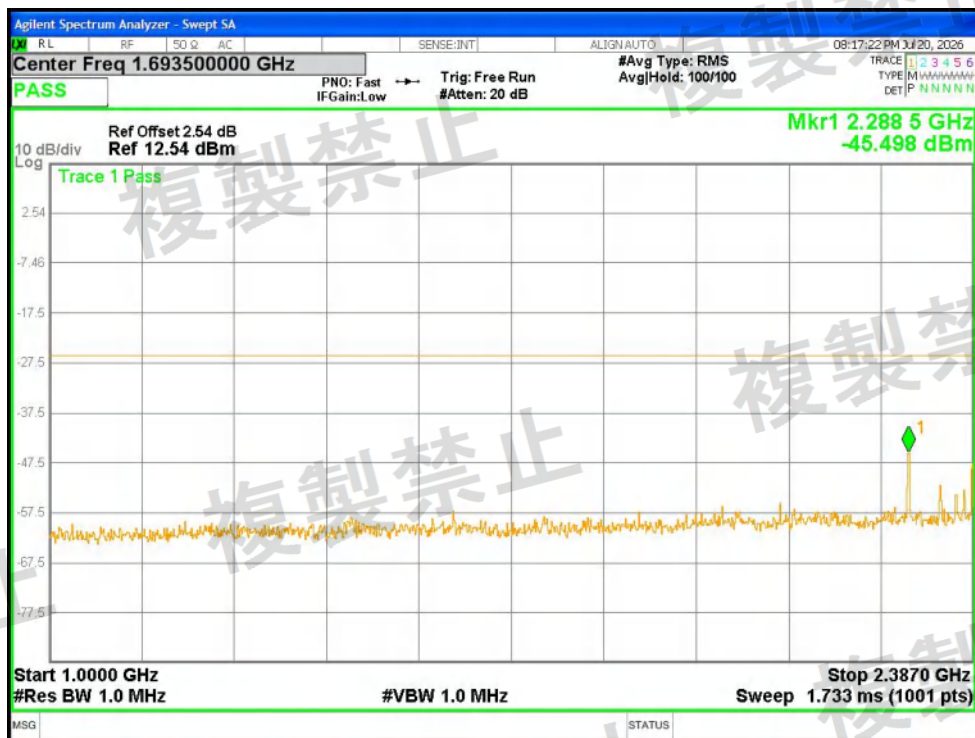
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 2483.5MHz-2496.5MHz



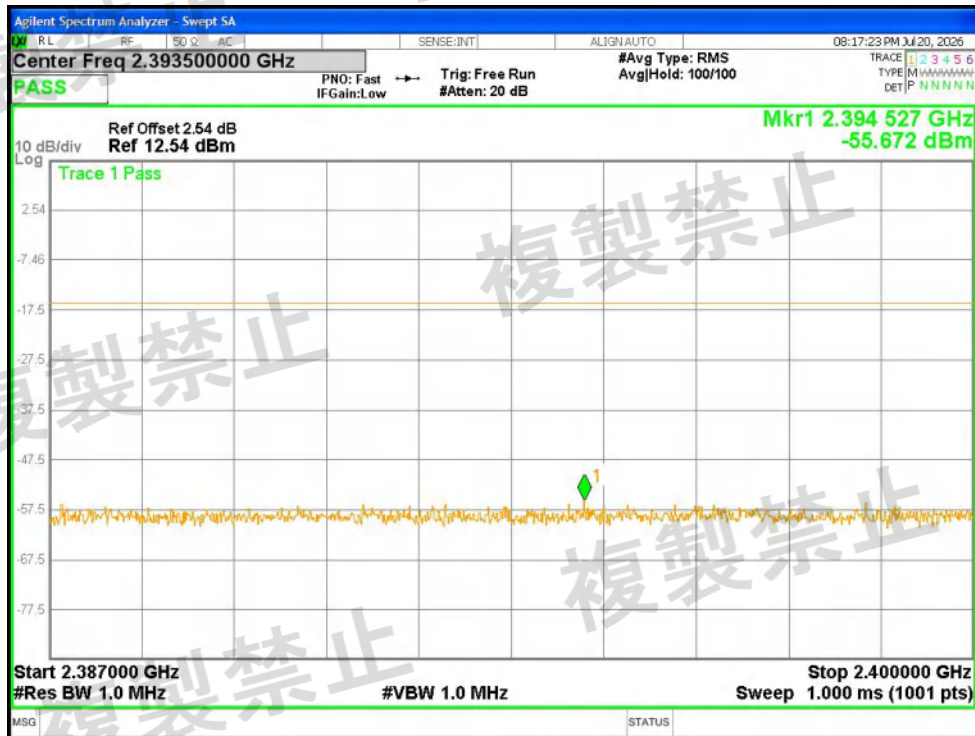
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 2496.5MHz-13000MHz



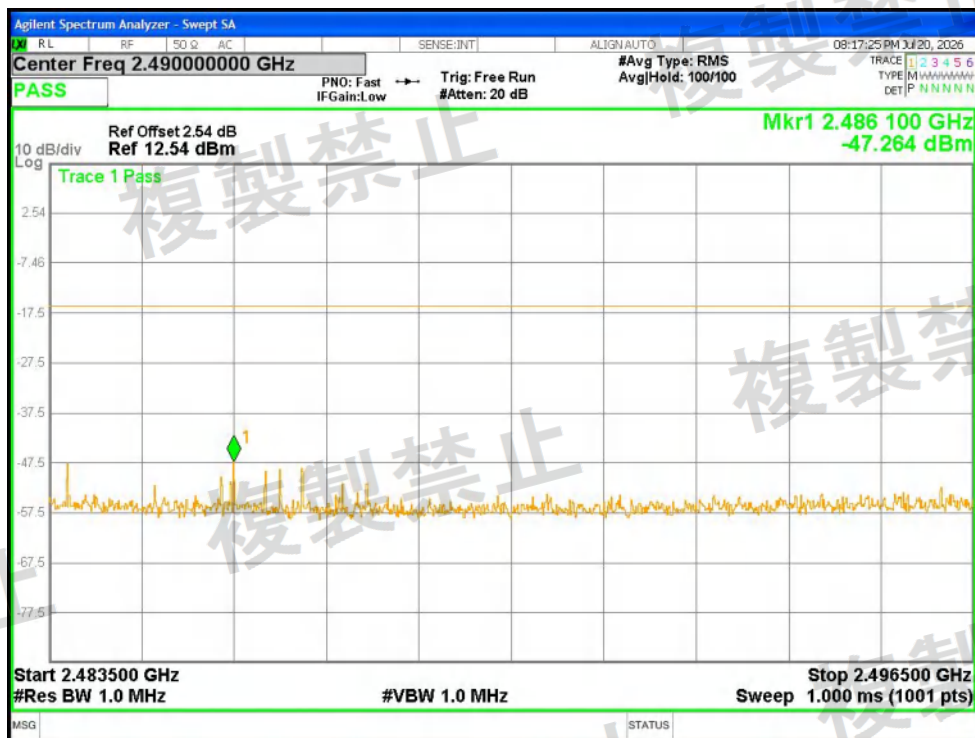
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 30MHz-1000MHz



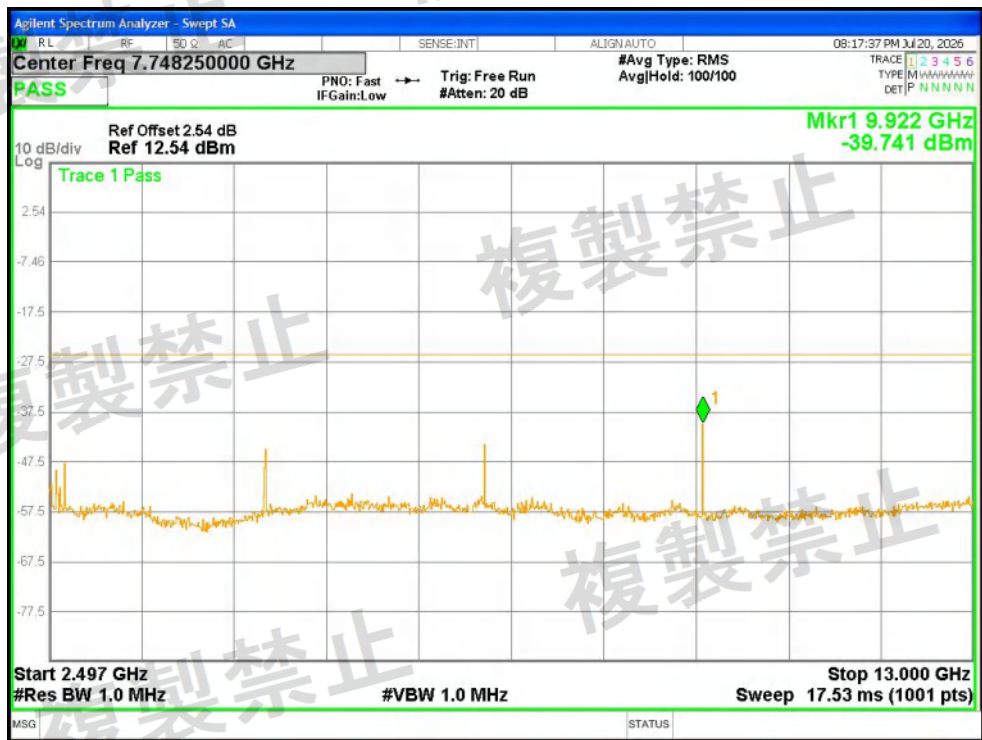
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 1000MHz-2387MHz



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



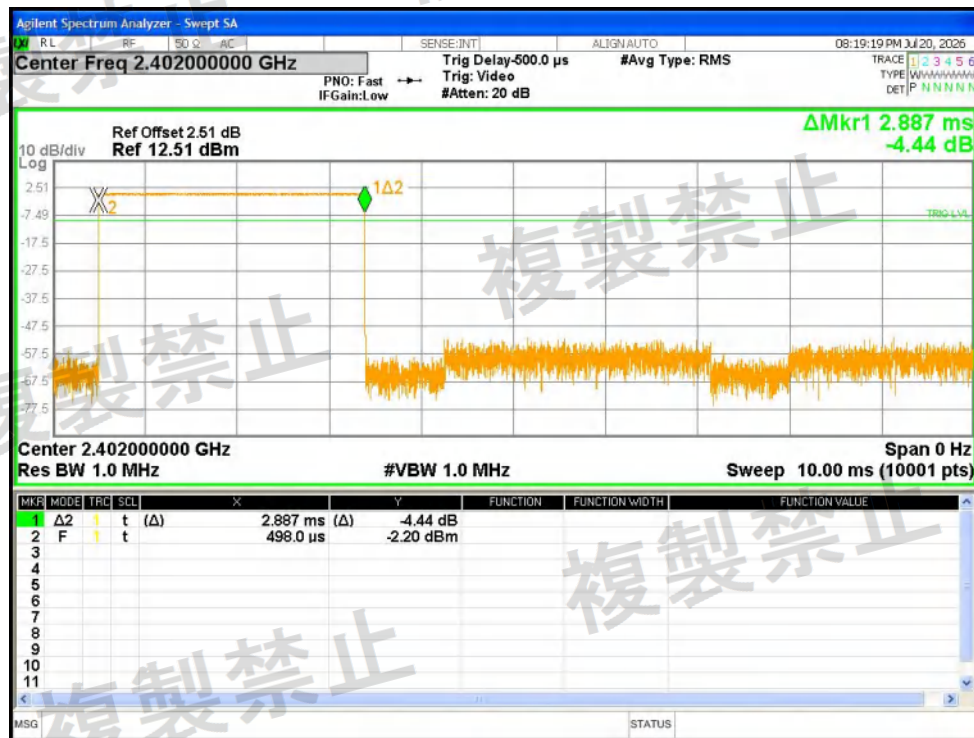
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 2483.5MHz-2496.5MHz



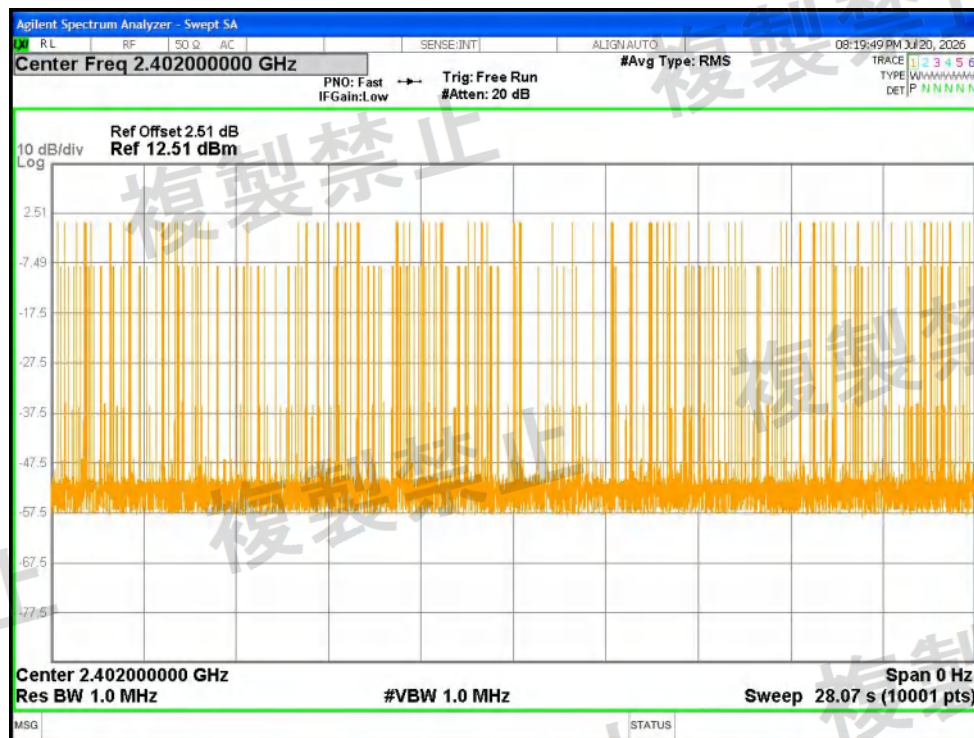
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 2496.5MHz-13000MHz

7. Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.887	268.491	93	28067.2	400	Pass
NVNT	1-DH5	2441	Ant1	2.886	271.284	94	28067.2	400	Pass
NVNT	1-DH5	2480	Ant1	2.886	227.994	79	28067.2	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	274.075	95	28118	400	Pass
NVNT	2-DH5	2441	Ant1	2.891	263.081	91	28118	400	Pass
NVNT	2-DH5	2480	Ant1	2.891	283.318	98	28118	400	Pass
NVNT	3-DH5	2402	Ant1	2.893	289.3	100	28166.4	400	Pass
NVNT	3-DH5	2441	Ant1	2.893	280.621	97	28166.4	400	Pass
NVNT	3-DH5	2480	Ant1	2.893	286.407	99	28166.4	400	Pass



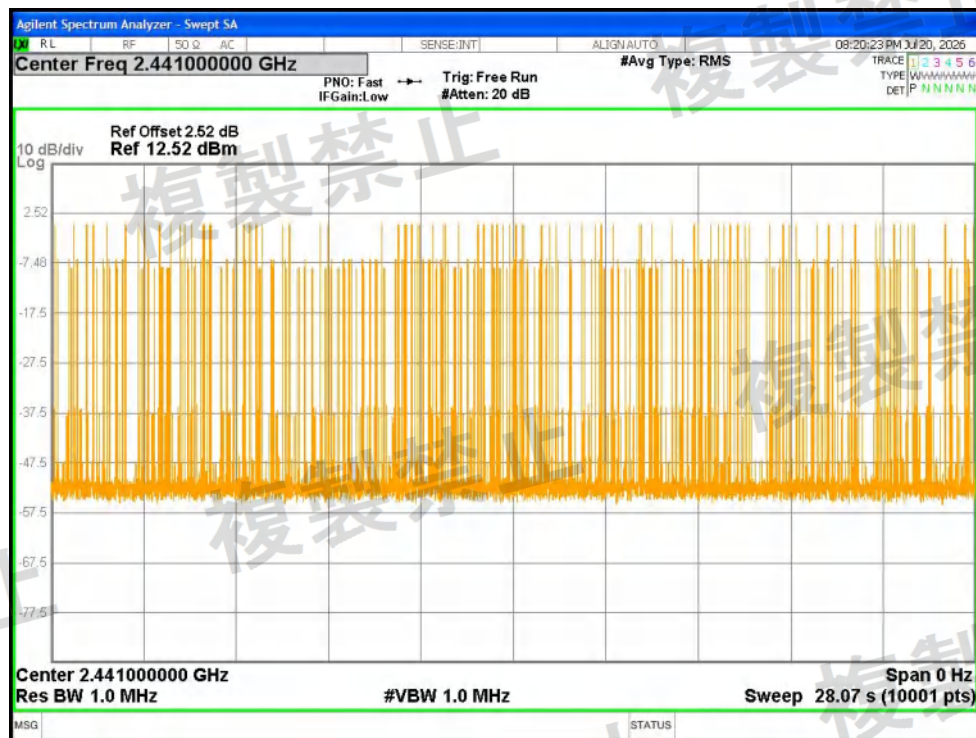
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

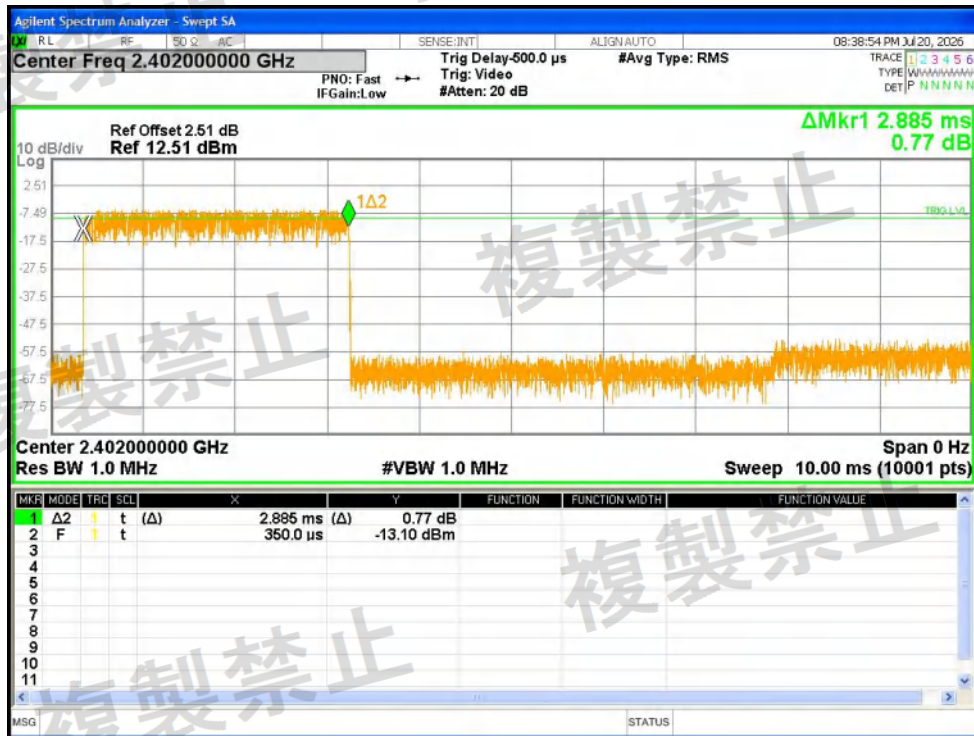


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

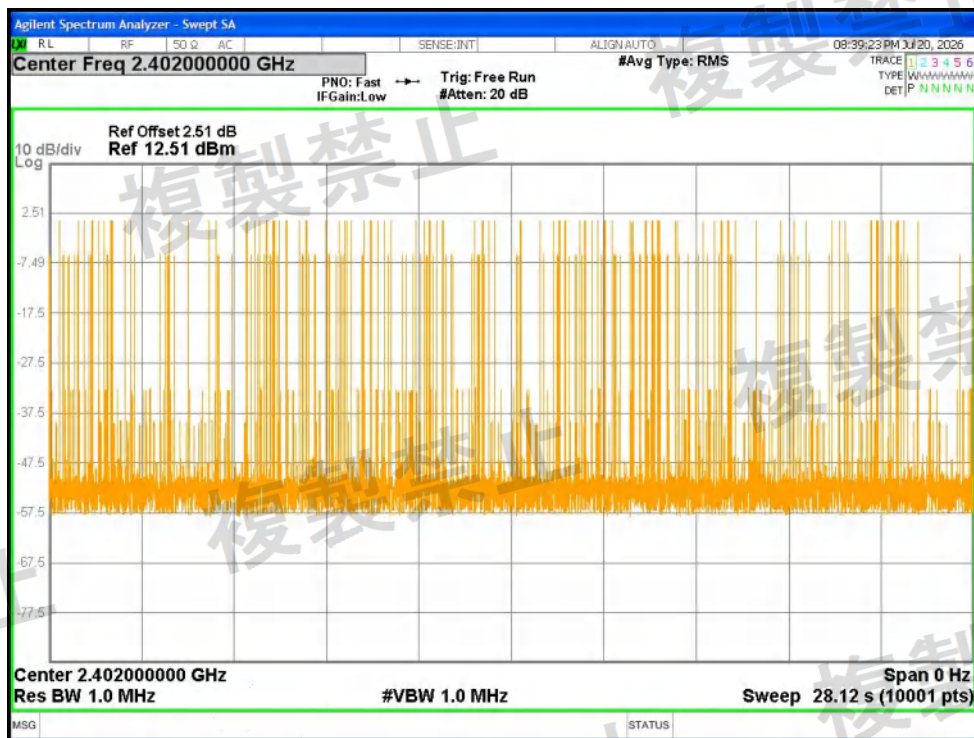
Dwell NVNT 1-DH5 2480MHz Ant1 One Burst



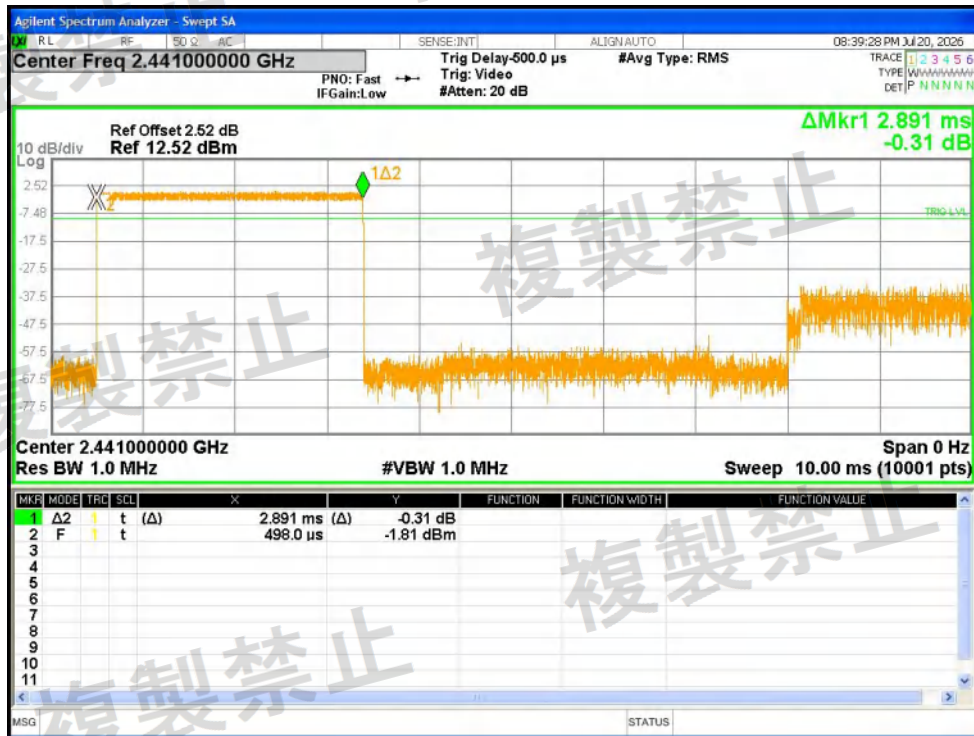
Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated



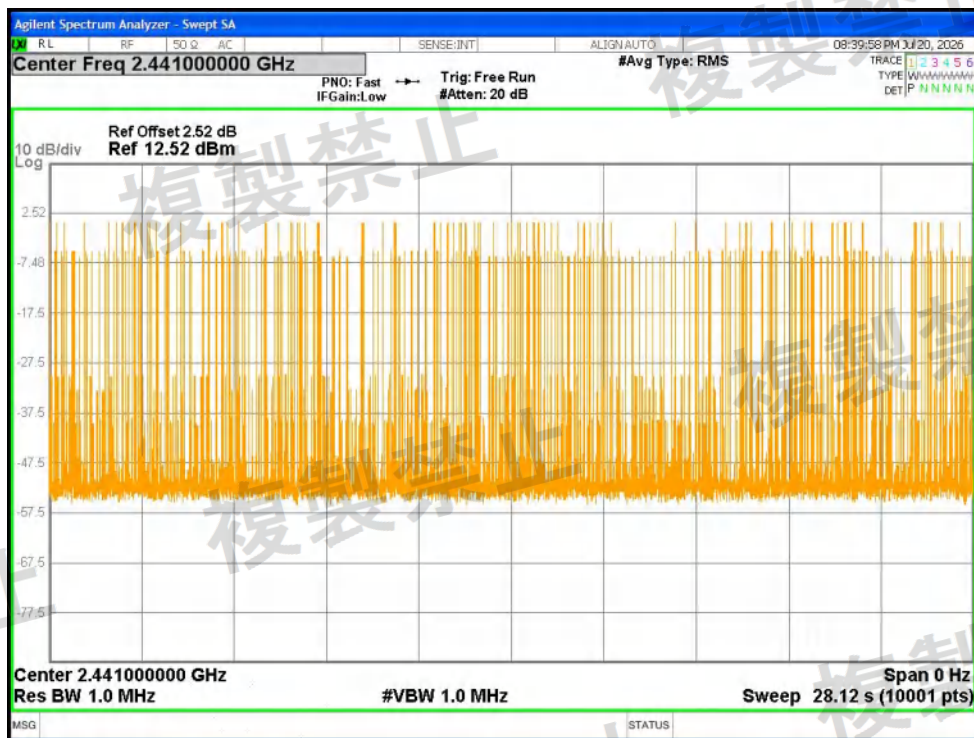
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



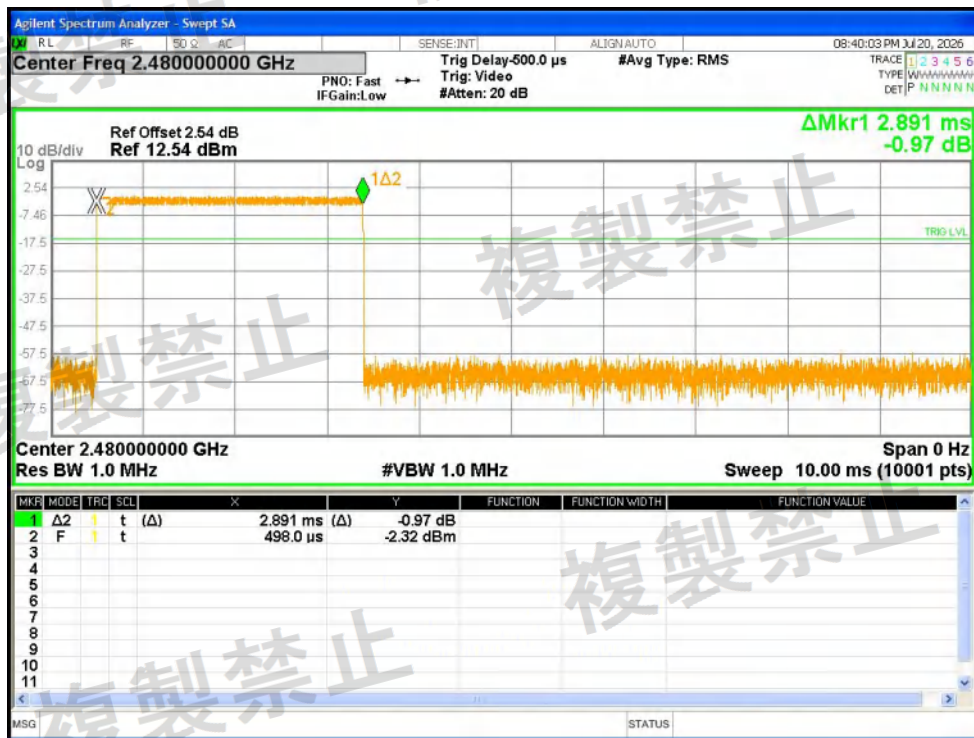
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



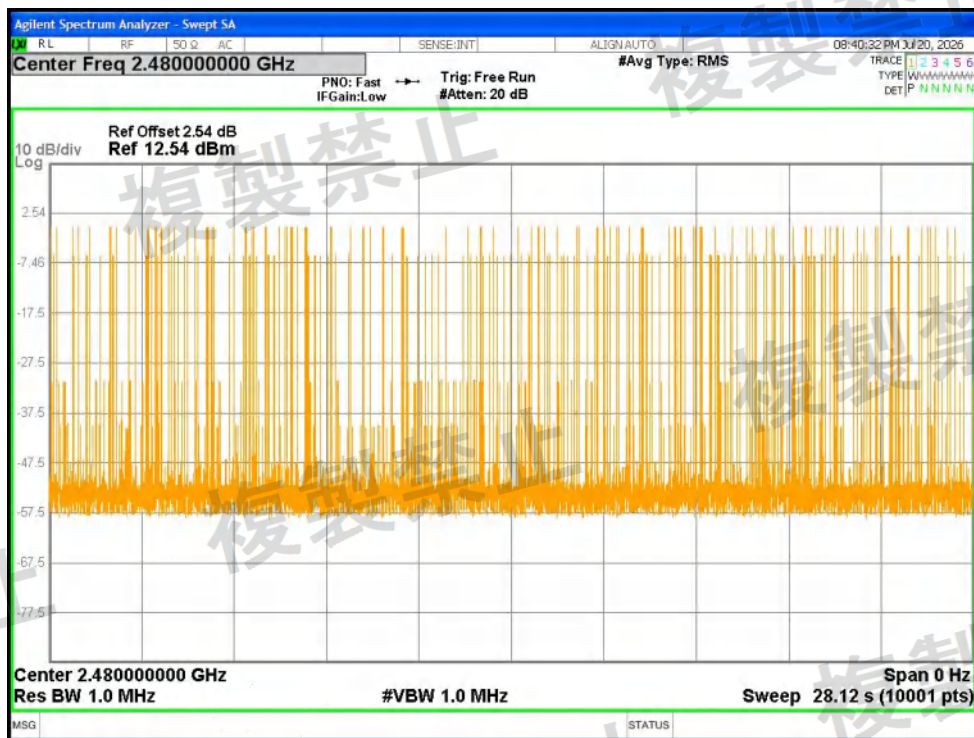
Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



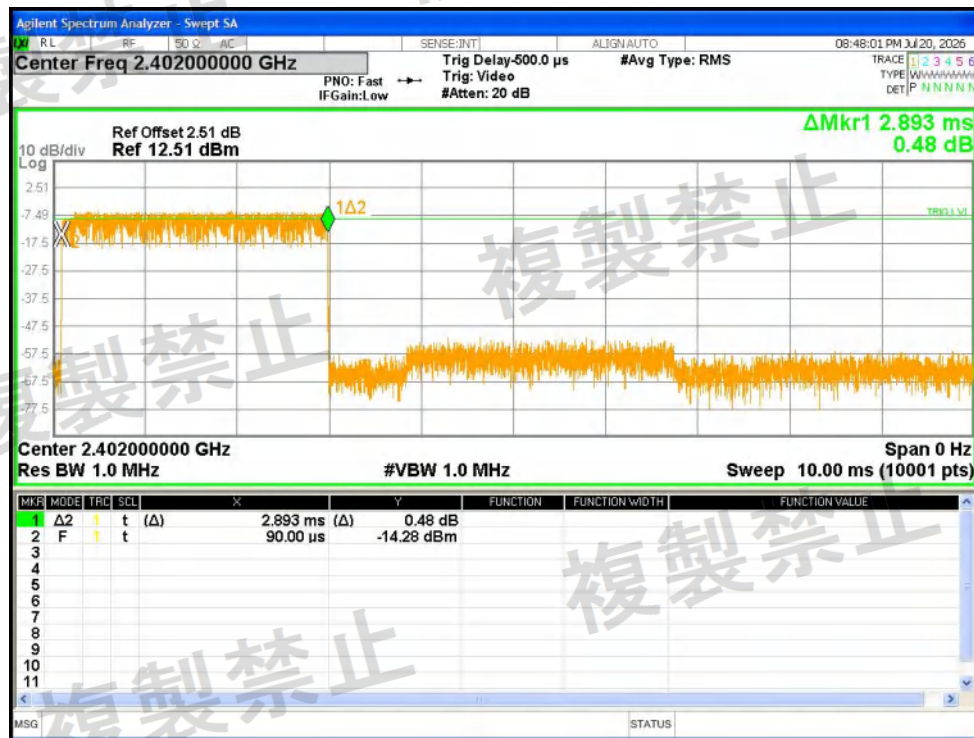
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



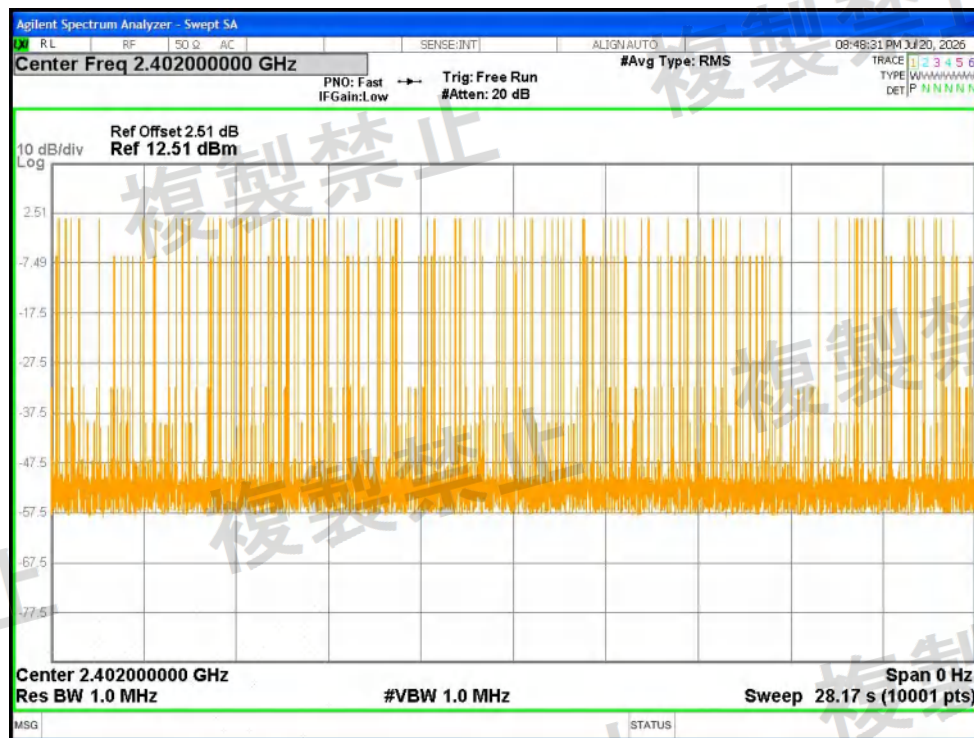
Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated



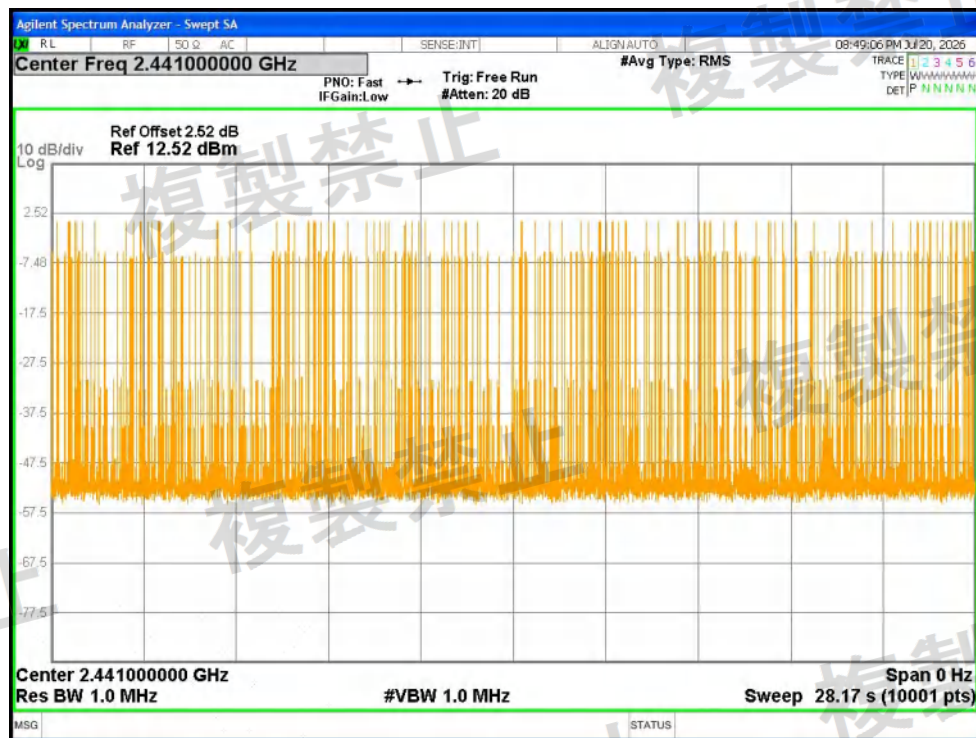
Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



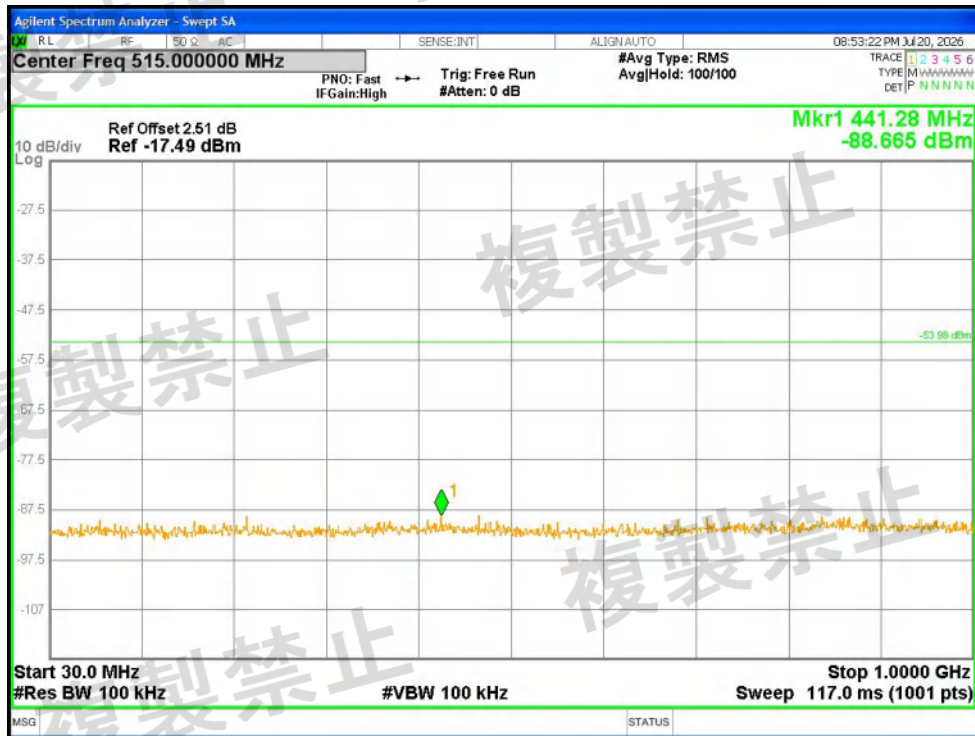
Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



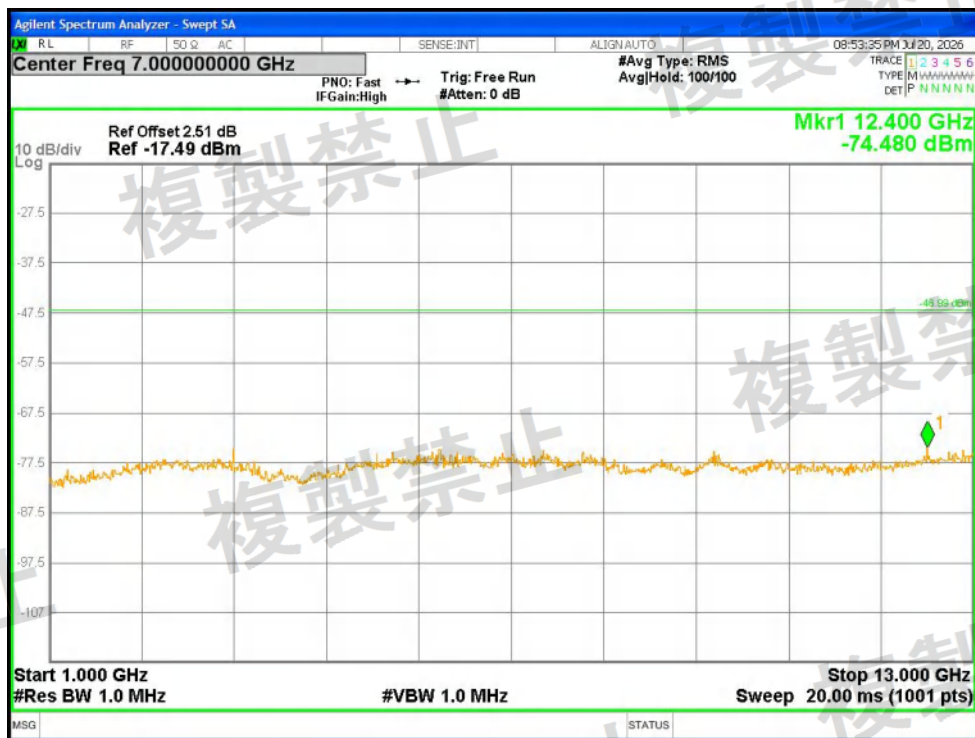
Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

8. Rx Spurious Emission

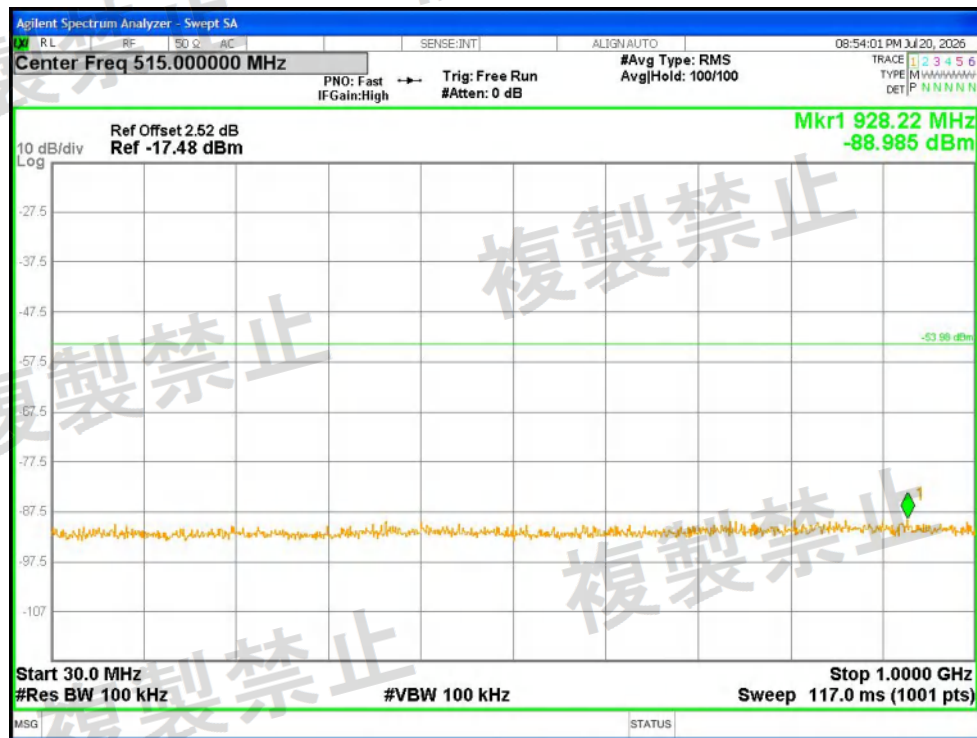
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (nW)	Max RMS Value (nW)	Limit (nW)	Verdict
NVNT	1-DH5	2402	Ant1	30-1000	441.28	-88.67	NA	0.0014	NA	4	Pass
NVNT	1-DH5	2402	Ant1	1000-13000	12400.00	-74.48	NA	0.0356	NA	20	Pass
NVNT	1-DH5	2441	Ant1	30-1000	928.22	-88.99	NA	0.0013	NA	4	Pass
NVNT	1-DH5	2441	Ant1	1000-13000	2668.00	-74.55	NA	0.0351	NA	20	Pass
NVNT	1-DH5	2480	Ant1	30-1000	880.69	-89.04	NA	0.0012	NA	4	Pass
NVNT	1-DH5	2480	Ant1	1000-13000	12904.00	-74.83	NA	0.0329	NA	20	Pass
NVNT	2-DH5	2402	Ant1	30-1000	856.44	-89.25	NA	0.0012	NA	4	Pass
NVNT	2-DH5	2402	Ant1	1000-13000	12784.00	-74.27	NA	0.0374	NA	20	Pass
NVNT	2-DH5	2441	Ant1	30-1000	868.08	-89.09	NA	0.0012	NA	4	Pass
NVNT	2-DH5	2441	Ant1	1000-13000	9592.00	-74.49	NA	0.0356	NA	20	Pass
NVNT	2-DH5	2480	Ant1	30-1000	870.02	-88.41	NA	0.0014	NA	4	Pass
NVNT	2-DH5	2480	Ant1	1000-13000	12460.00	-74.57	NA	0.0349	NA	20	Pass
NVNT	3-DH5	2402	Ant1	30-1000	606.18	-88.10	NA	0.0015	NA	4	Pass
NVNT	3-DH5	2402	Ant1	1000-13000	12976.00	-74.87	NA	0.0326	NA	20	Pass
NVNT	3-DH5	2441	Ant1	30-1000	757.50	-88.24	NA	0.0015	NA	4	Pass
NVNT	3-DH5	2441	Ant1	1000-13000	12592.00	-74.29	NA	0.0372	NA	20	Pass
NVNT	3-DH5	2480	Ant1	30-1000	877.78	-89.18	NA	0.0012	NA	4	Pass
NVNT	3-DH5	2480	Ant1	1000-13000	12868.00	-73.95	NA	0.0403	NA	20	Pass



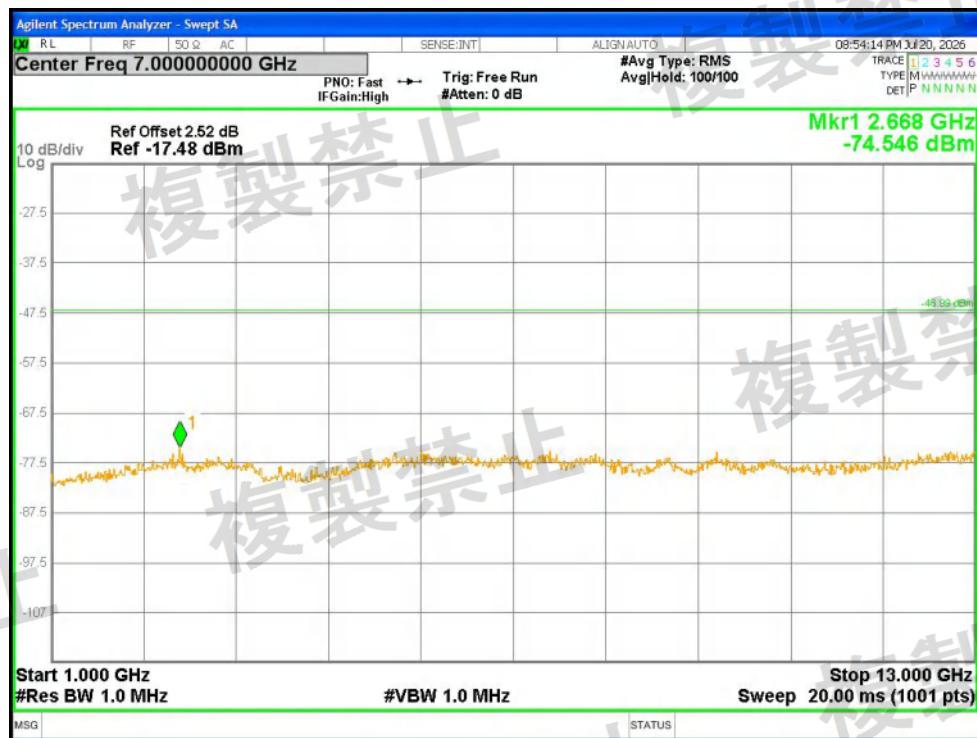
Rx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 30MHz-1000MHz



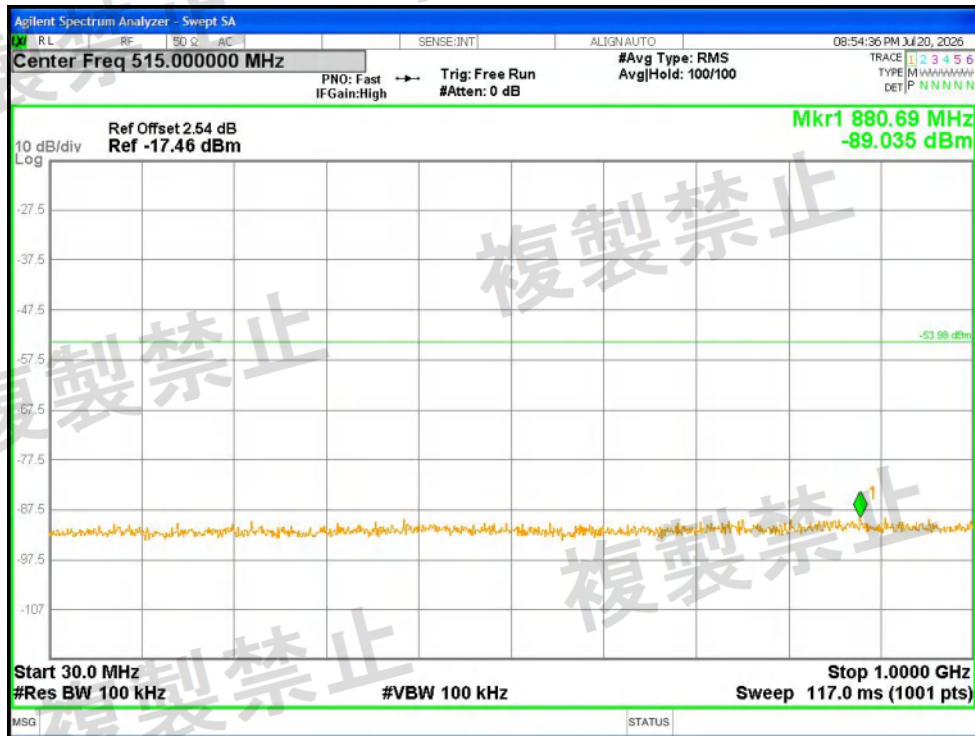
Rx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 1000MHz-13000MHz



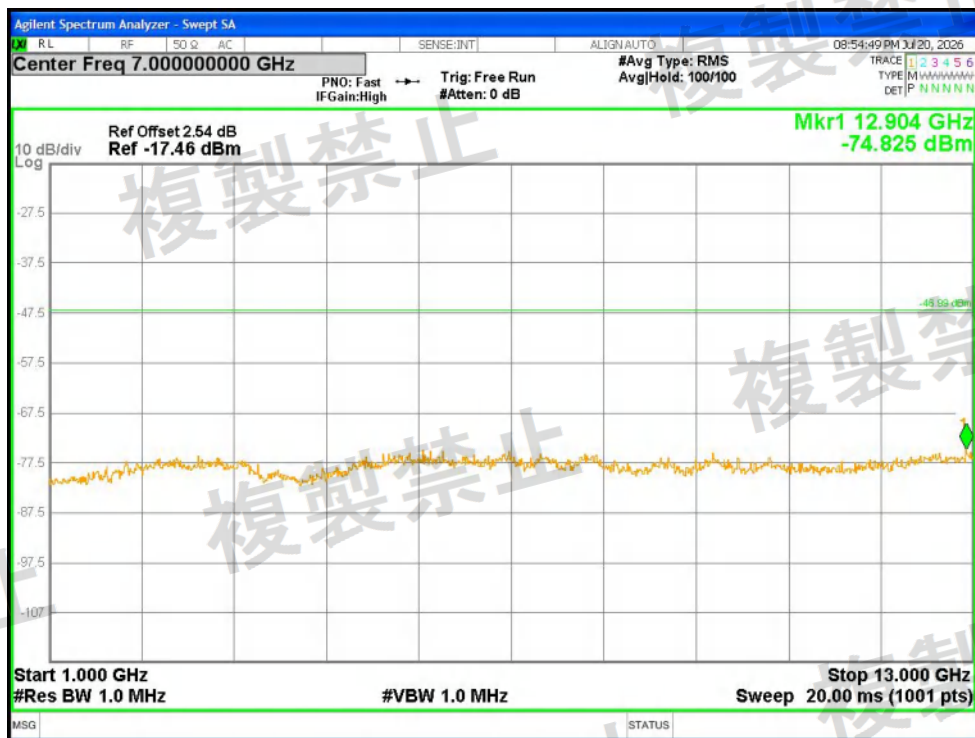
Rx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 30MHz-1000MHz



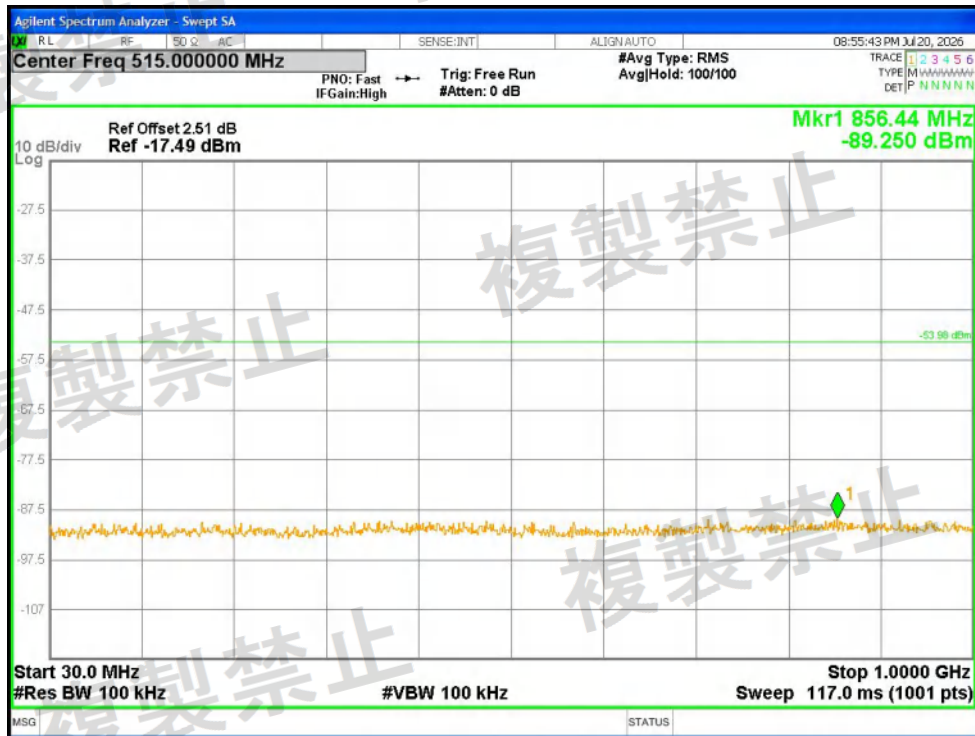
Rx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 1000MHz-13000MHz



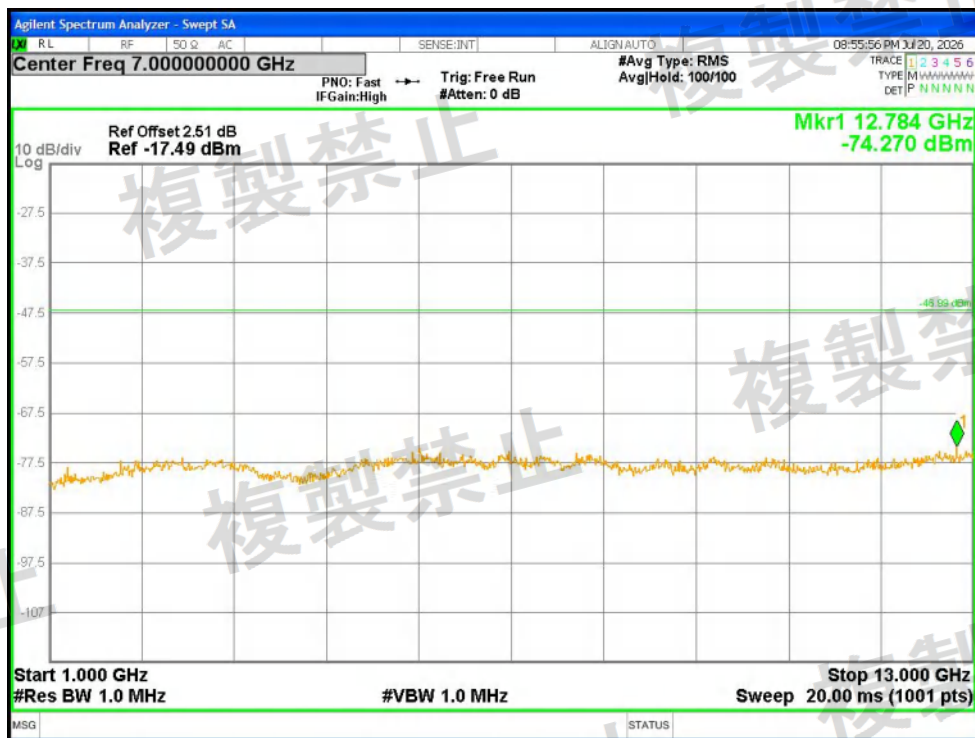
Rx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 30MHz-1000MHz



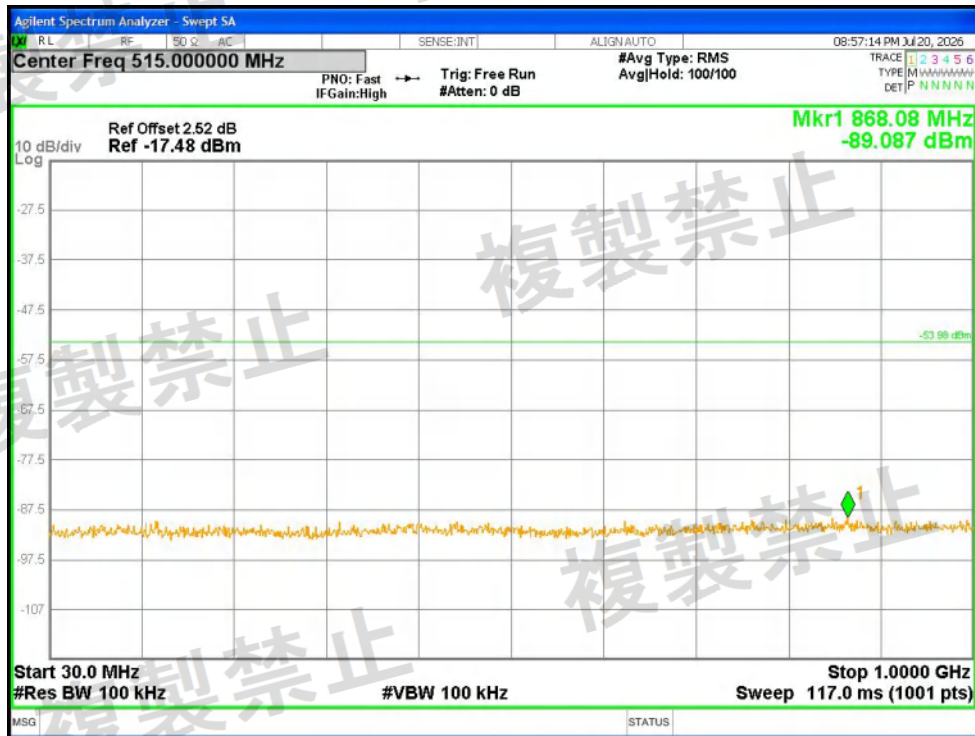
Rx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 1000MHz-13000MHz



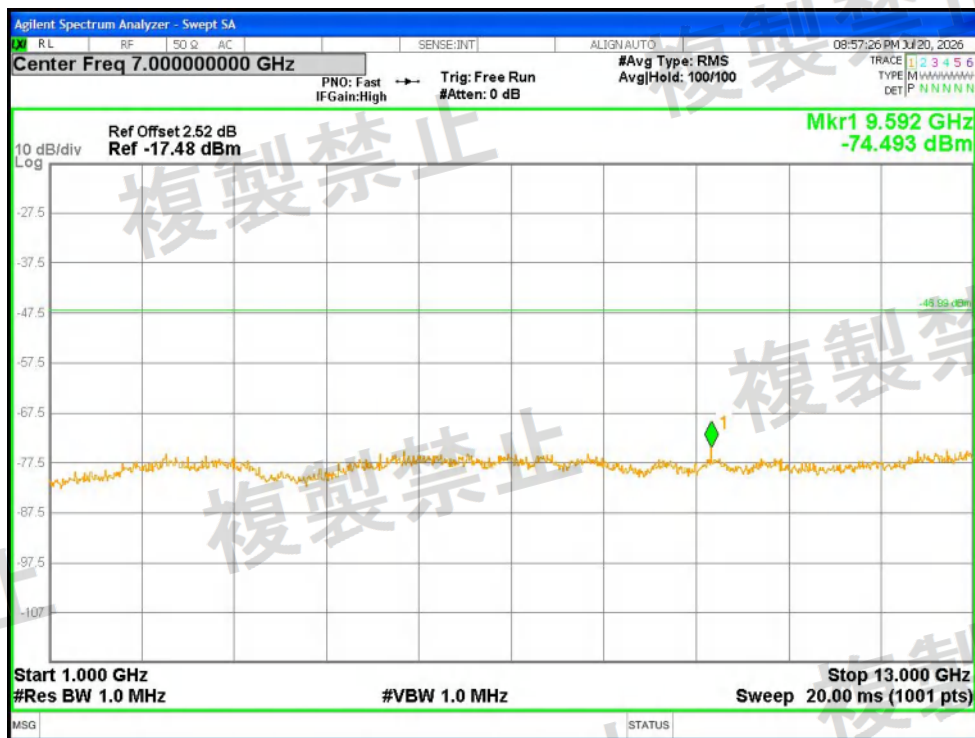
Rx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 30MHz-1000MHz



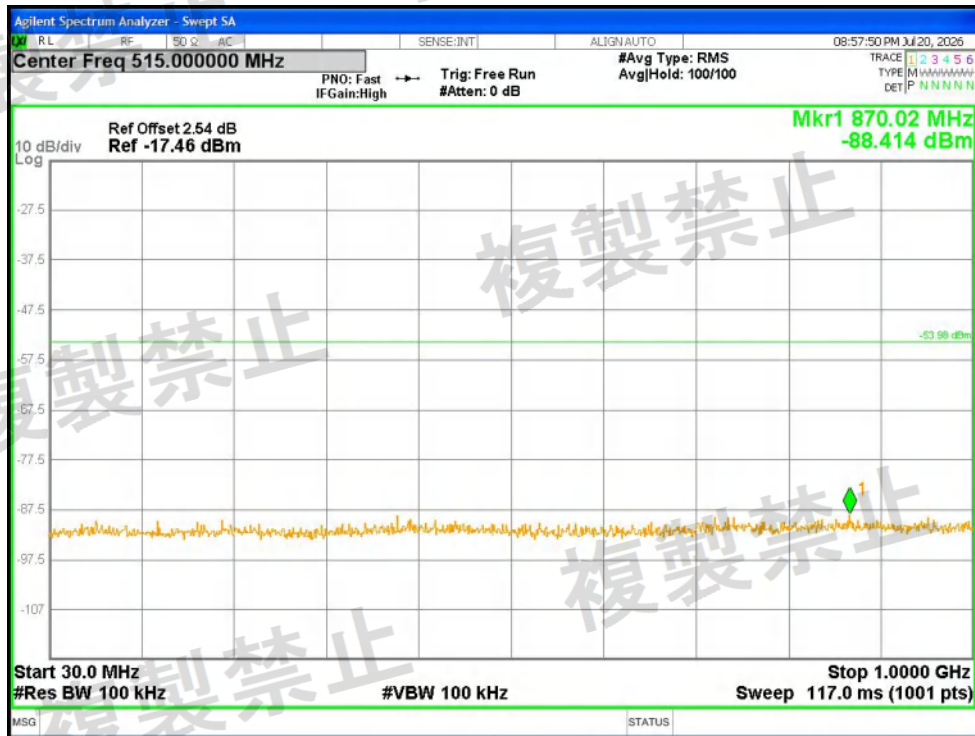
Rx. Spurious NVNT 2-DH5 2402MHz Ant1 @ 1000MHz-13000MHz



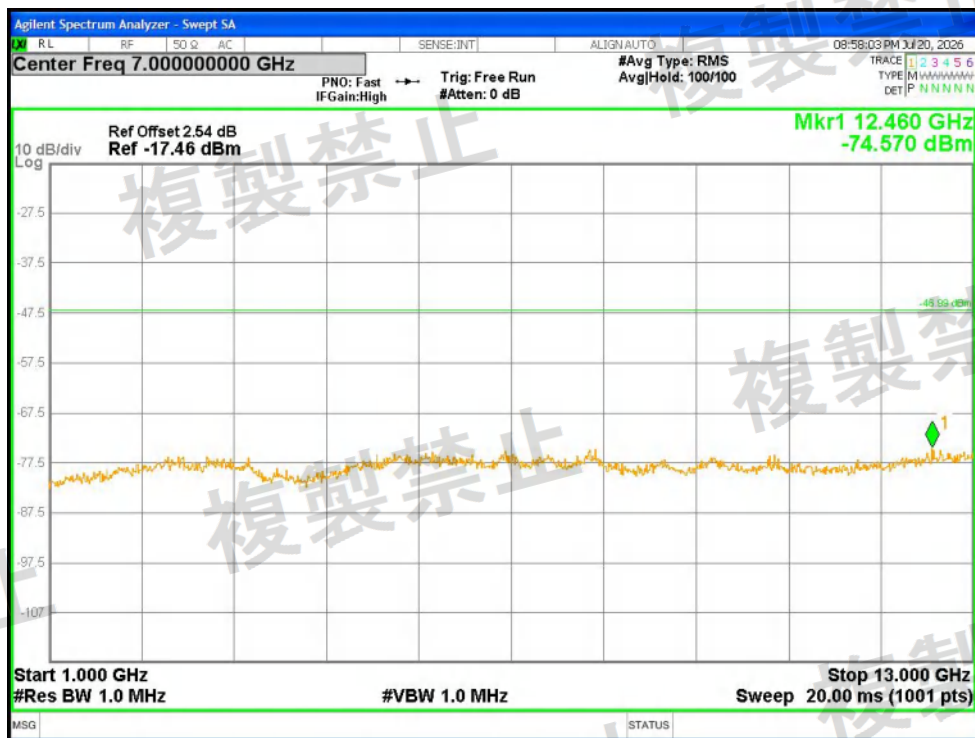
Rx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 30MHz-1000MHz



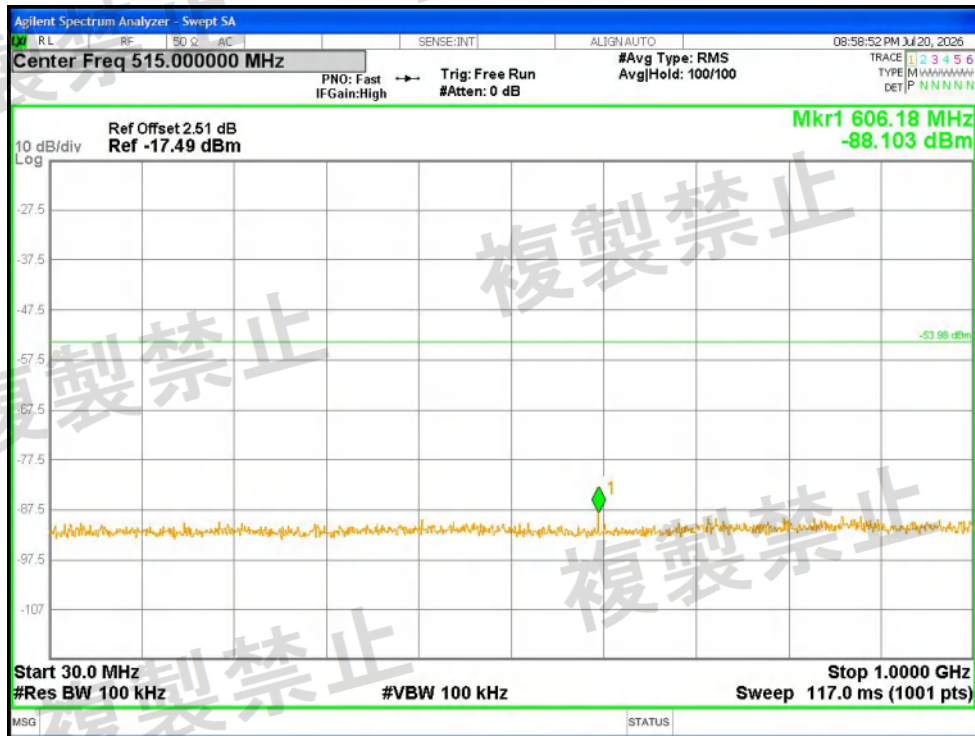
Rx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 1000MHz-13000MHz



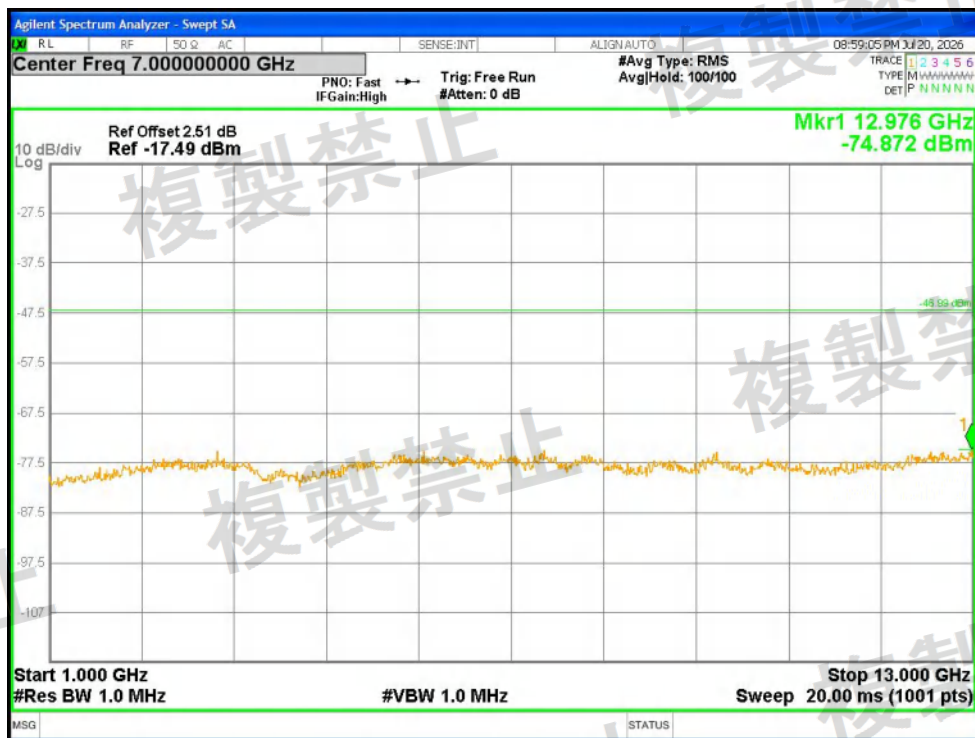
Rx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 30MHz-1000MHz



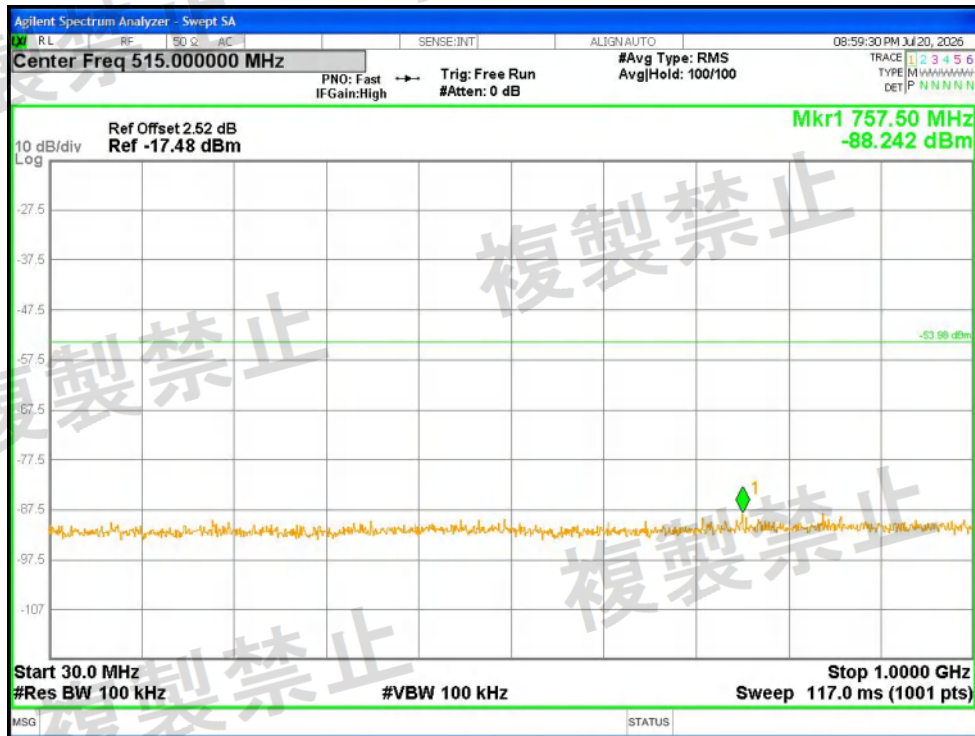
Rx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 1000MHz-13000MHz



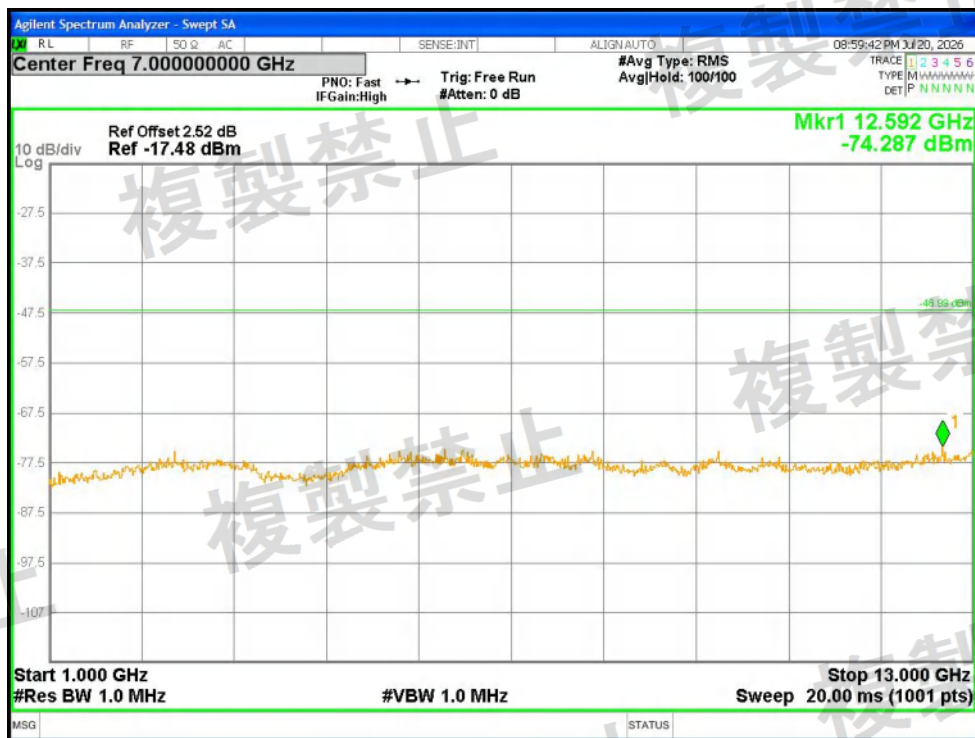
Rx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 30MHz-1000MHz



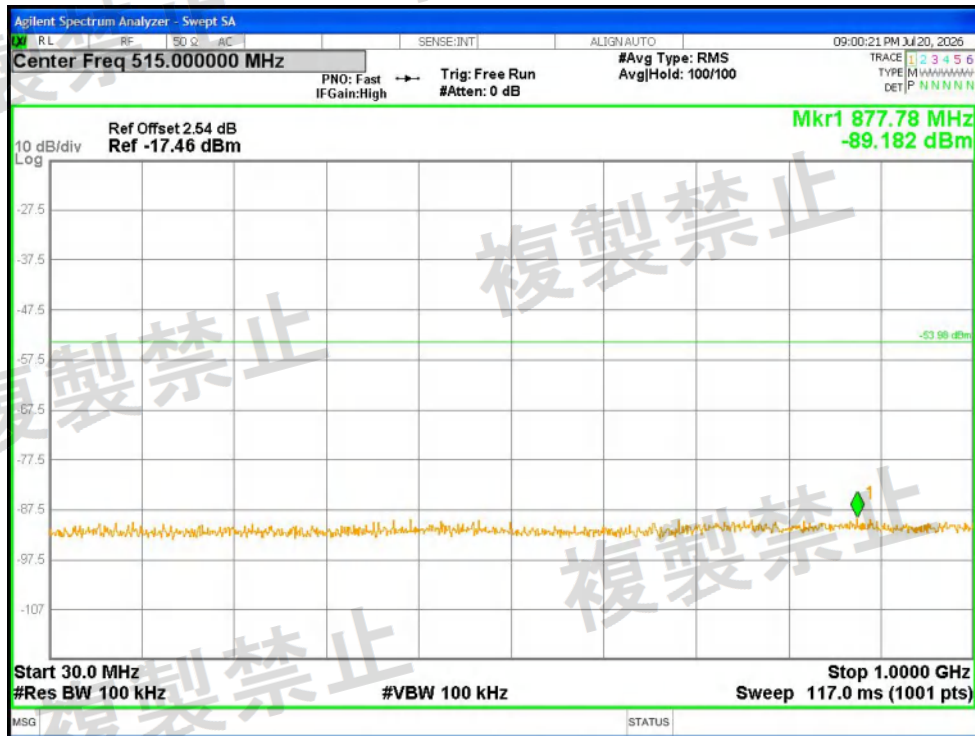
Rx. Spurious NVNT 3-DH5 2402MHz Ant1 @ 1000MHz-13000MHz



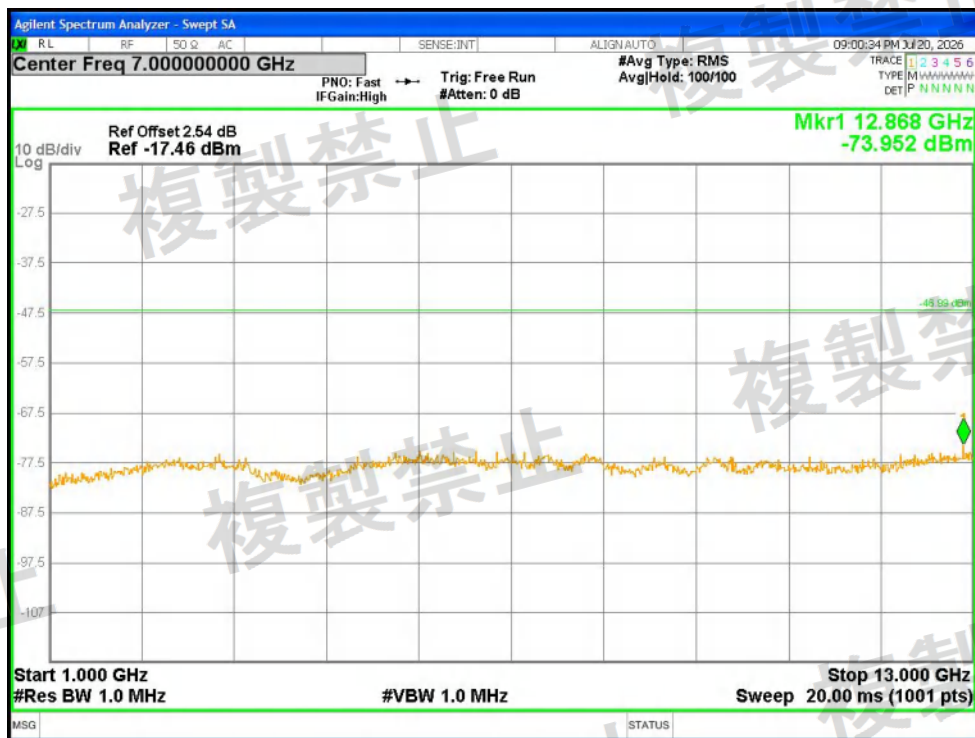
Rx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 1000MHz-13000MHz



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



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