



RF Test Data

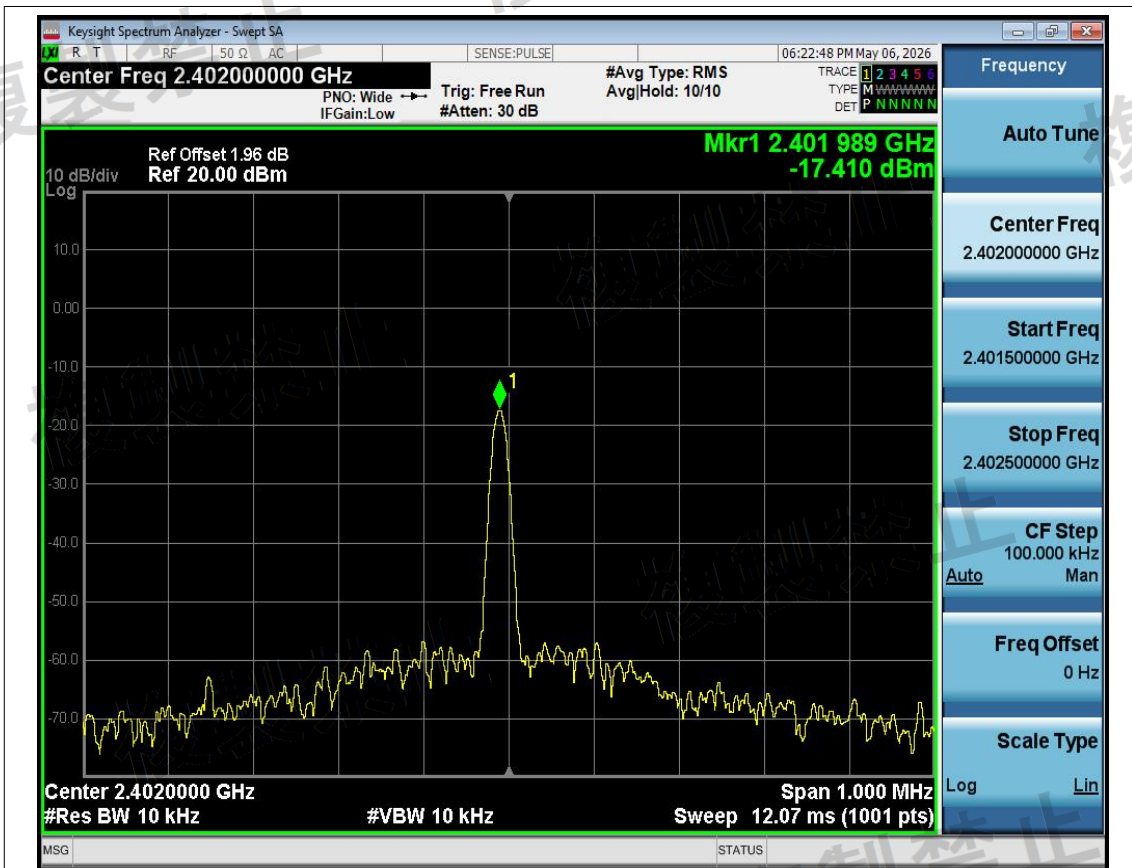
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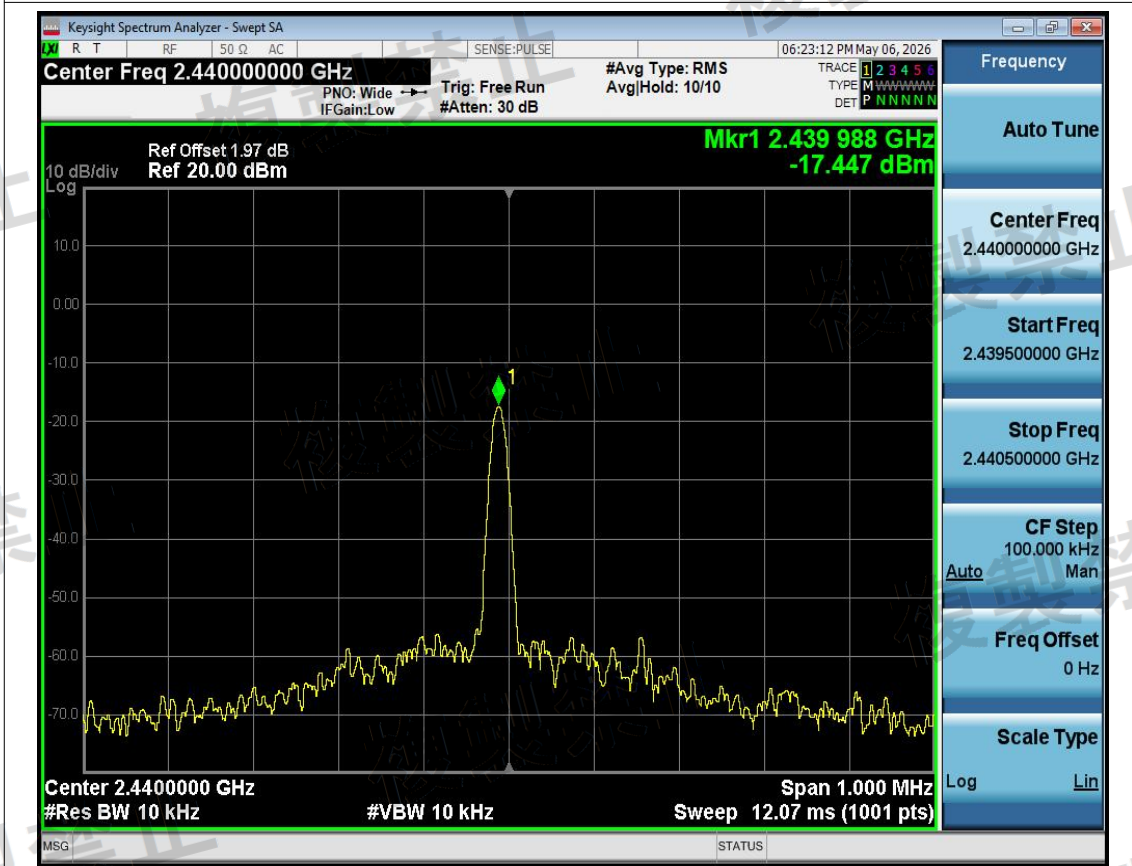
Frequency Error

Both Wireless earphone L and R were tested, and only the worst data (earphone L) was recorded in the report.

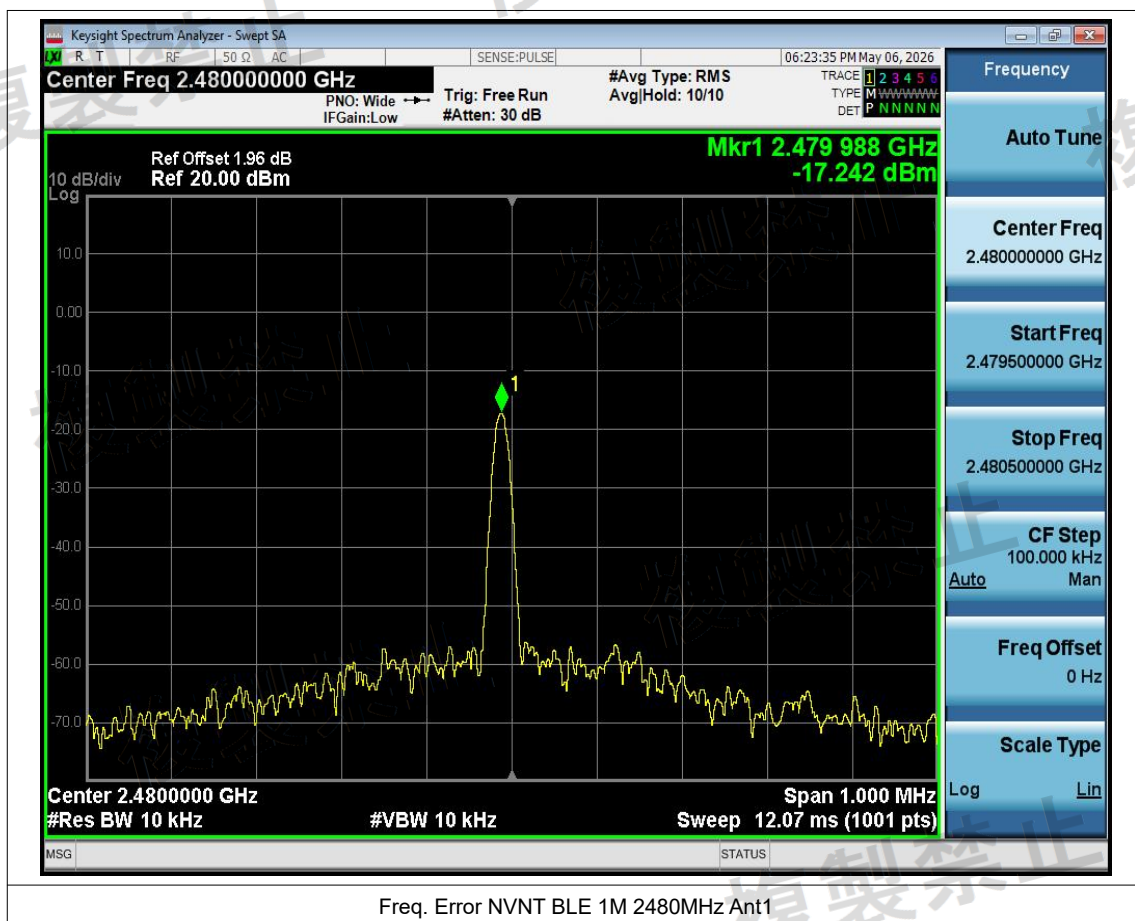
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	BLE 1M	2402	Ant1	2401.989	-11000	-4.58	50	Pass
NVNT	BLE 1M	2440	Ant1	2439.988	-12000	-4.92	50	Pass
NVNT	BLE 1M	2480	Ant1	2479.988	-12000	-4.84	50	Pass



Freq. Error NVNT BLE 1M 2402MHz Ant1



Freq. Error NVNT BLE 1M 2440MHz Ant1

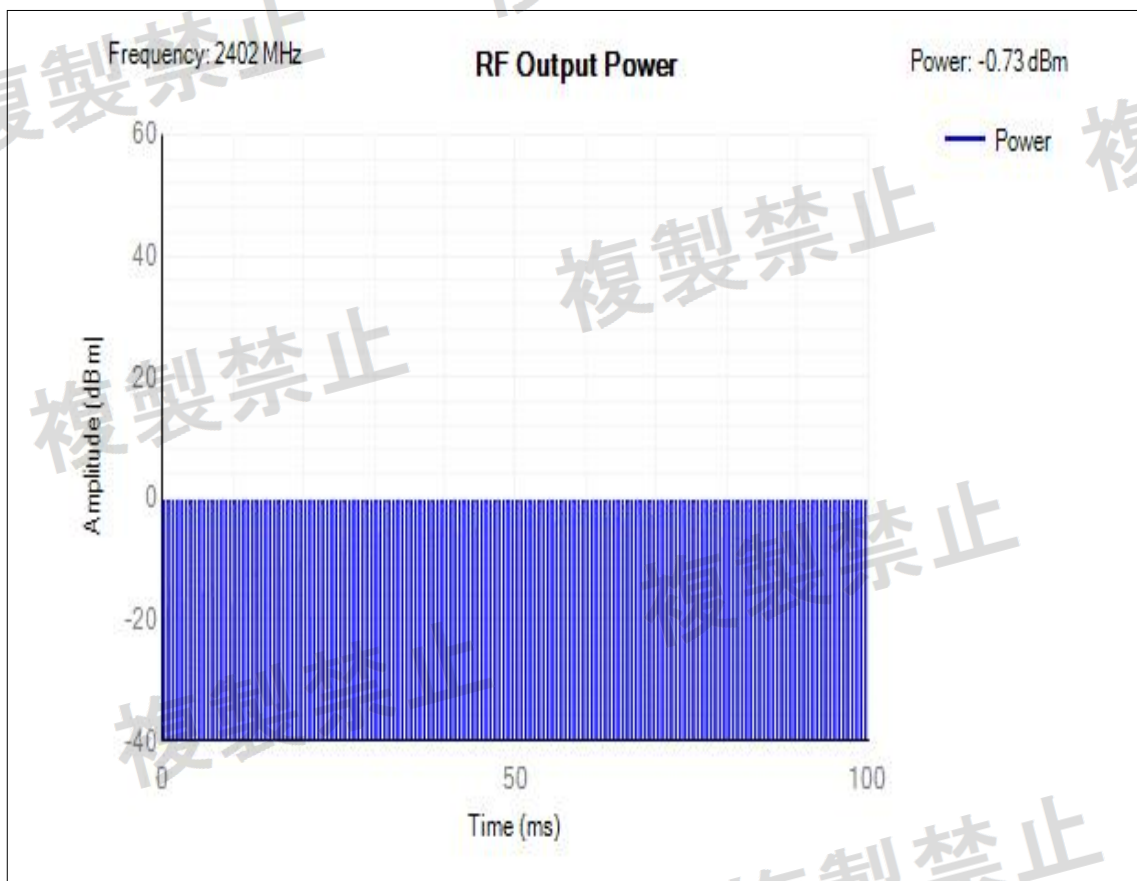




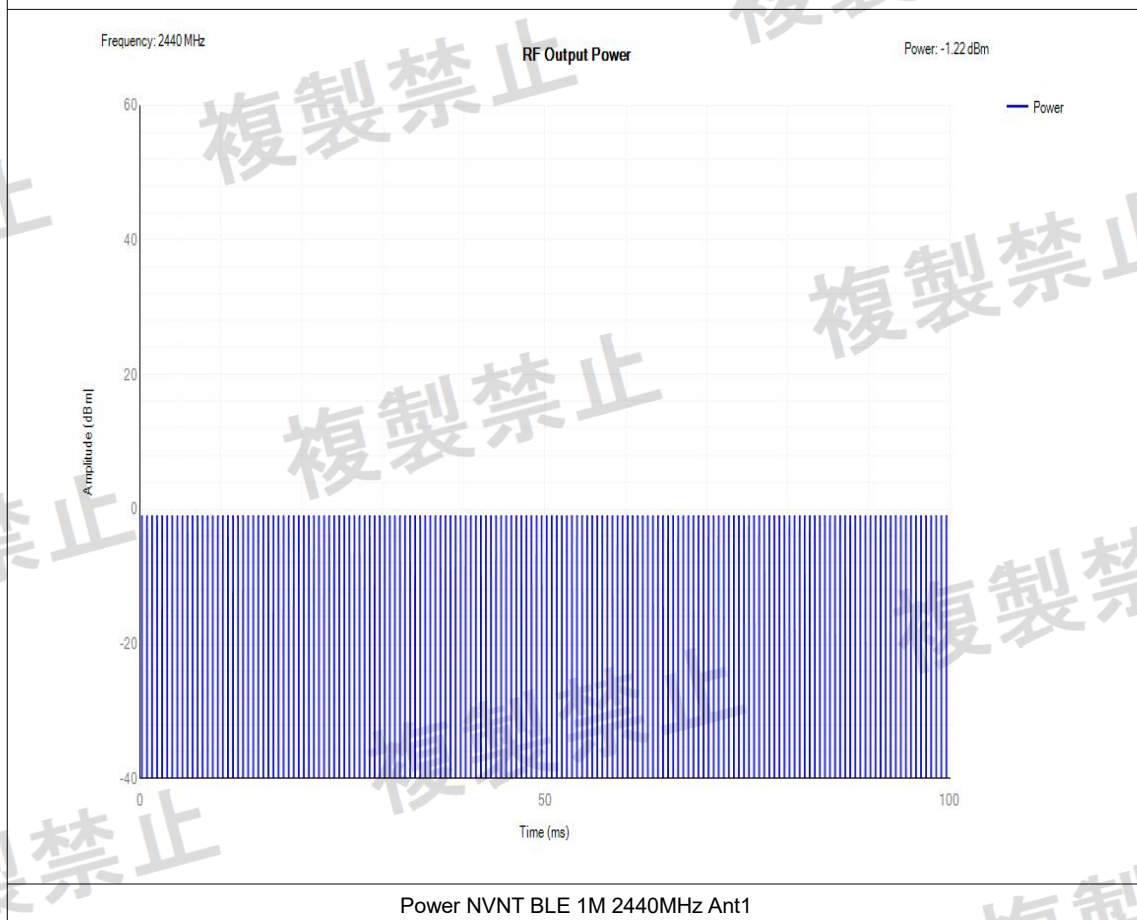
Antenna Power

Both Wireless earphone L and R were tested, and only the worst data (earphone L) was recorded in the report.

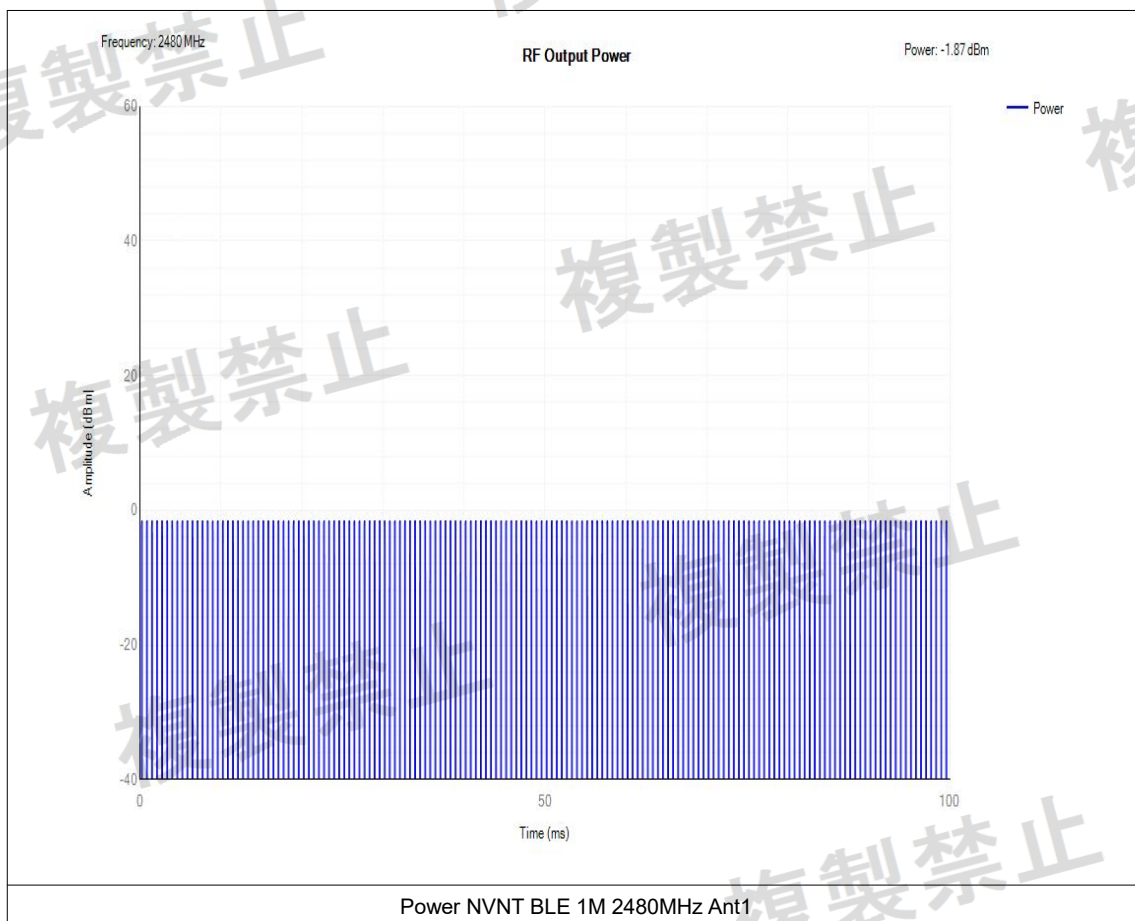
Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Power (mW)	Limit (mW)	Declared Power (mW)	Tolerance (%)	Upper Limit (%)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.73	0.845	10	1	-15.5	20	Pass
NVNT	BLE 1M	2440	Ant1	-1.22	0.755	10	1	-24.5	20	Pass
NVNT	BLE 1M	2480	Ant1	-1.87	0.65	10	1	-35	20	Pass



Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1





EIRP Power

Both Wireless earphone L and R were tested, and only the worst data (earphone L) was recorded in the report.

Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW)	Antenna Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.845	-0.73	2.7	1.97	12.14	Pass
NVNT	BLE 1M	2440	Ant1	0.755	-1.22	2.7	1.48	12.14	Pass
NVNT	BLE 1M	2480	Ant1	0.65	-1.87	2.7	0.83	12.14	Pass



Occupied Channel Bandwidth

Both Wireless earphone L and R were tested, and only the worst data (earphone L) was recorded in the report.

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	Lower Limit (MHz)	Upper Limit (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	1.3917	N/A	26	Pass
NVNT	BLE 1M	2440	Ant1	1.4654	N/A	26	Pass
NVNT	BLE 1M	2480	Ant1	1.4507	N/A	26	Pass



OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1





Tx Spurious Emission

Both Wireless earphone L and R were tested, and only the worst data (earphone L) was recorded in the report.

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	BLE 1M	2402	Ant1	30-1000	919.78	-56.45	NA	0.0023	NA	0.25	0.25	Pass
NVNT	BLE 1M	2402	Ant1	1000-2387	2378.26	-44.72	NA	0.0337	NA	2.5	2.5	Pass
NVNT	BLE 1M	2402	Ant1	2387-2400	2400.00	-34.45	NA	0.3589	NA	25	25	Pass
NVNT	BLE 1M	2402	Ant1	2483.5-2496.5	2487.15	-46.14	NA	0.0243	NA	25	25	Pass
NVNT	BLE 1M	2402	Ant1	2496.5-3000	4805.17	-37.57	NA	0.175	NA	2.5	2.5	Pass
NVNT	BLE 1M	2440	Ant1	30-1000	904.16	-57.85	NA	0.0016	NA	0.25	0.25	Pass
NVNT	BLE 1M	2440	Ant1	1000-2387	1718.88	-32.53	NA	0.5585	NA	2.5	2.5	Pass
NVNT	BLE 1M	2440	Ant1	2387-2400	2392.13	-46.16	NA	0.0242	NA	25	25	Pass
NVNT	BLE 1M	2440	Ant1	2483.5-2496.5	2487.96	-45.88	NA	0.0258	NA	25	25	Pass
NVNT	BLE 1M	2440	Ant1	2496.5-3000	4880.79	-38.20	NA	0.1514	NA	2.5	2.5	Pass
NVNT	BLE 1M	2480	Ant1	30-1000	931.32	-58.05	NA	0.0016	NA	0.25	0.25	Pass
NVNT	BLE 1M	2480	Ant1	1000-2387	1718.33	-40.42	NA	0.0908	NA	2.5	2.5	Pass

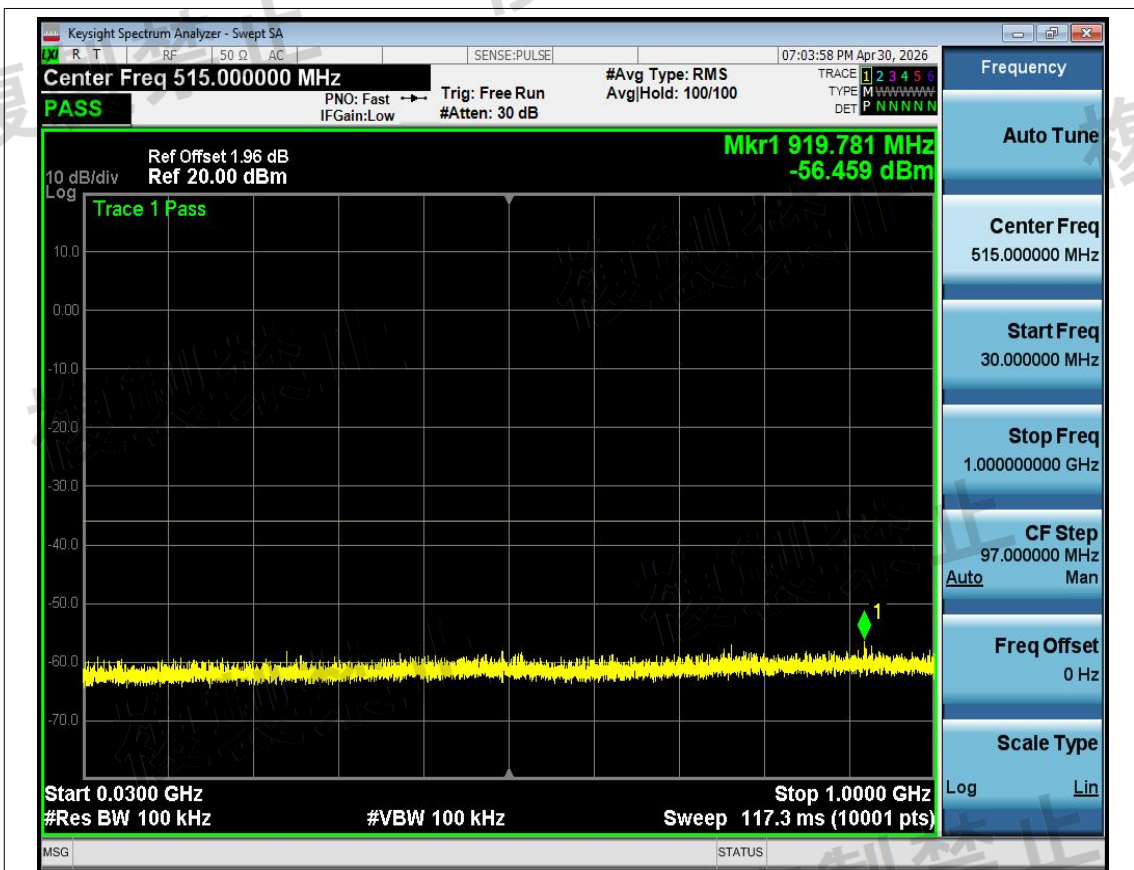


NVNT	BLE 1M	2480	Ant1	2387-24 00	2391.09	-46.92	NA	0.0203	NA	25	25	Pass
NVNT	BLE 1M	2480	Ant1	2483.5-2 496.5	2490.97	-46.04	NA	0.0249	NA	25	25	Pass
NVNT	BLE 1M	2480	Ant1	2496.5-1 3000	4960.62	-38.82	NA	0.1312	NA	2.5	2.5	Pass

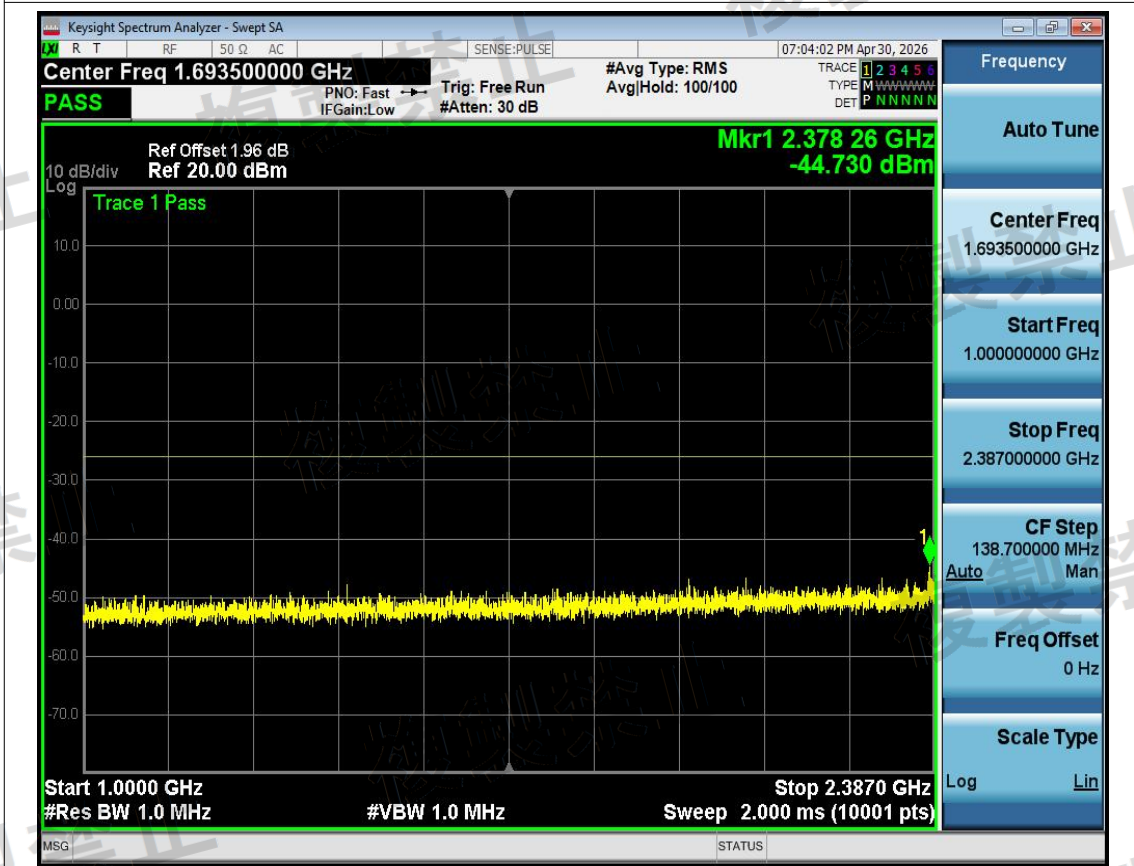
Note: 30M-1GHz test for RB = 100kHz;

Test Result = Max peak Value + RB factor;

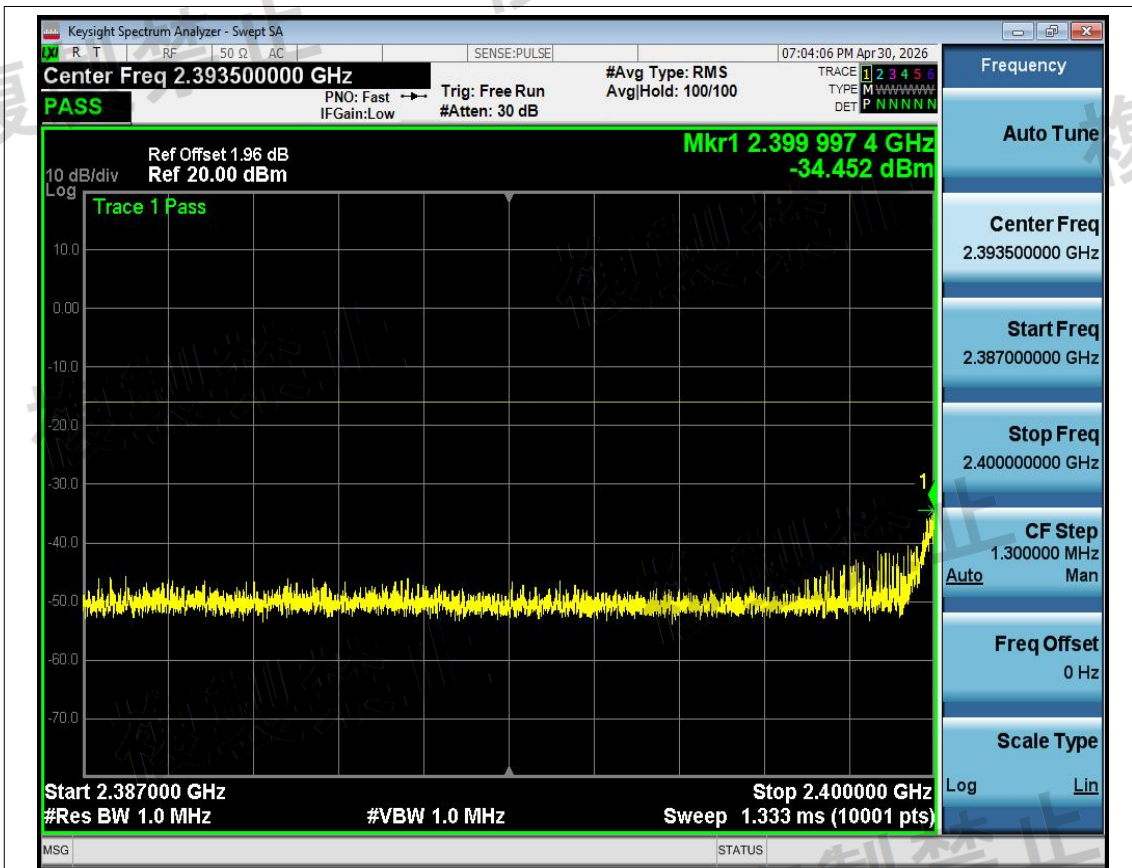
RB factor = $10 \log (RB0/RB1) = 10 \log (1\text{MHz}/100\text{KHz}) = 10\text{dB}$.



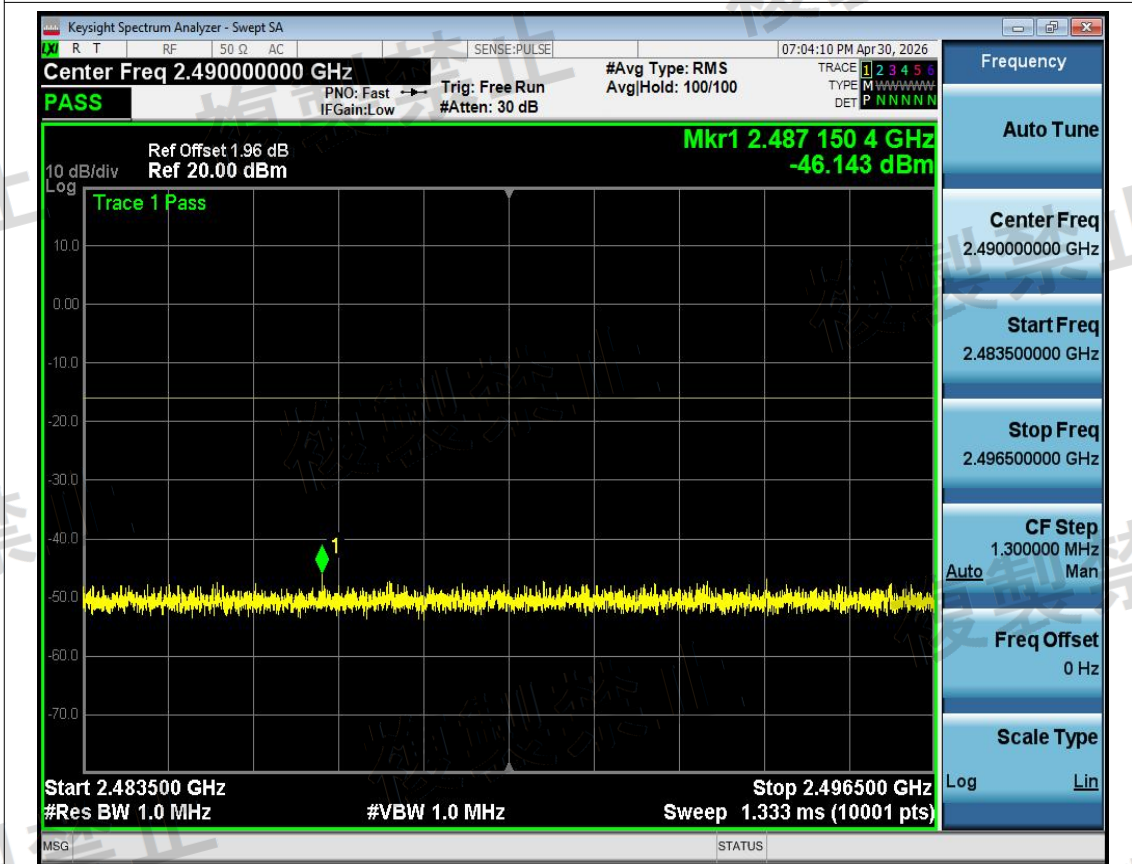
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 30MHz-1000MHz



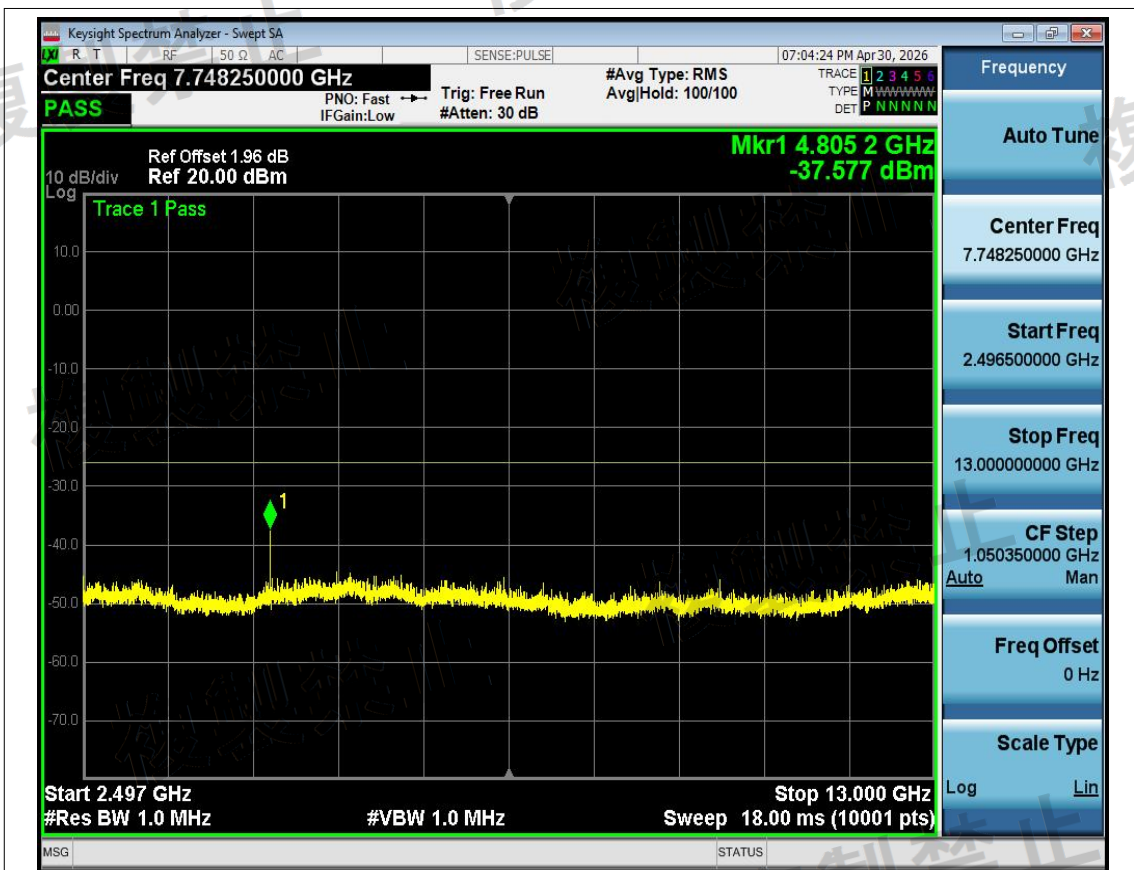
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 1000MHz-2387MHz



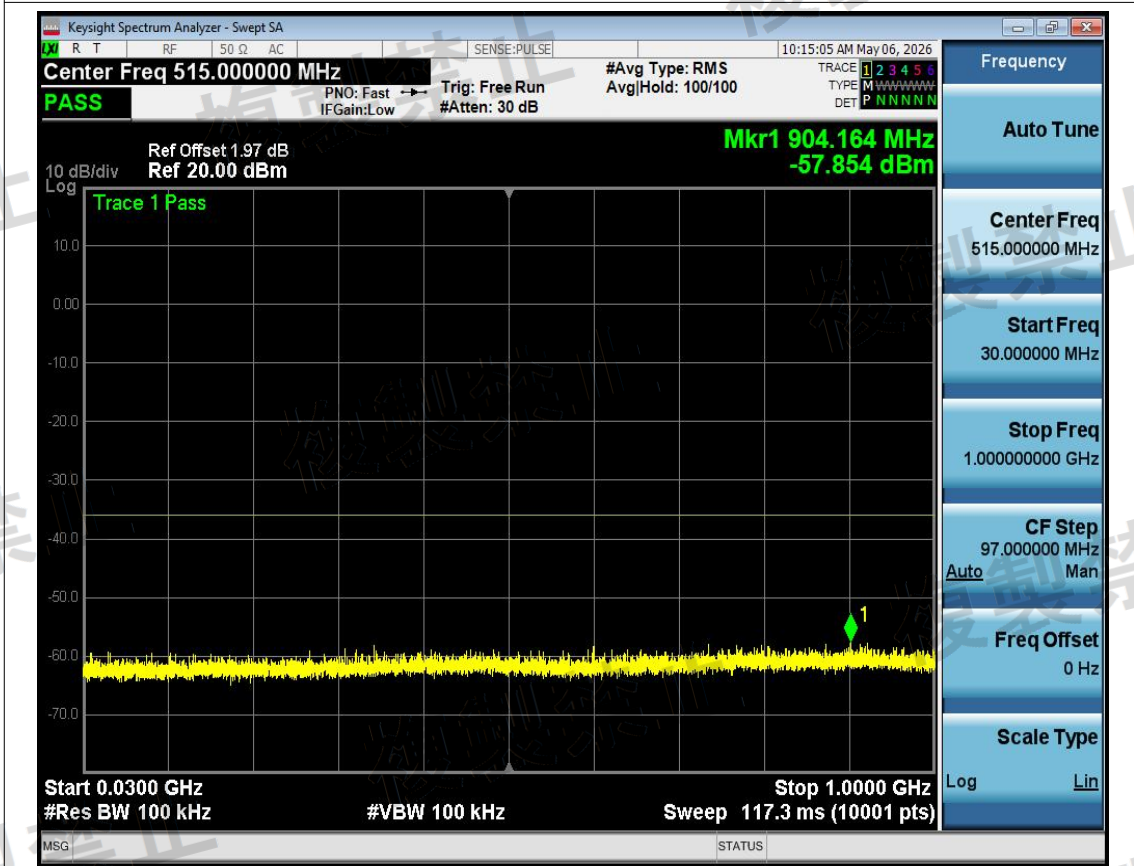
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 2387MHz-2400MHz



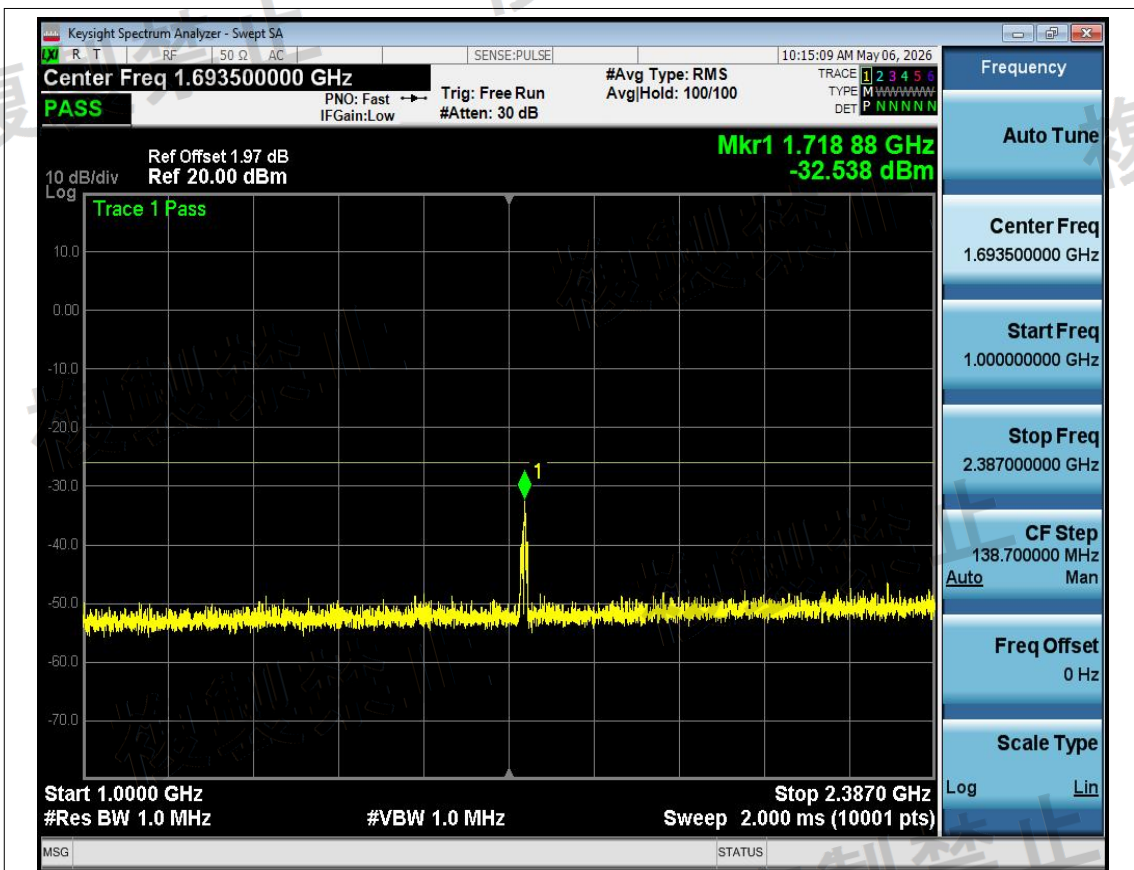
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



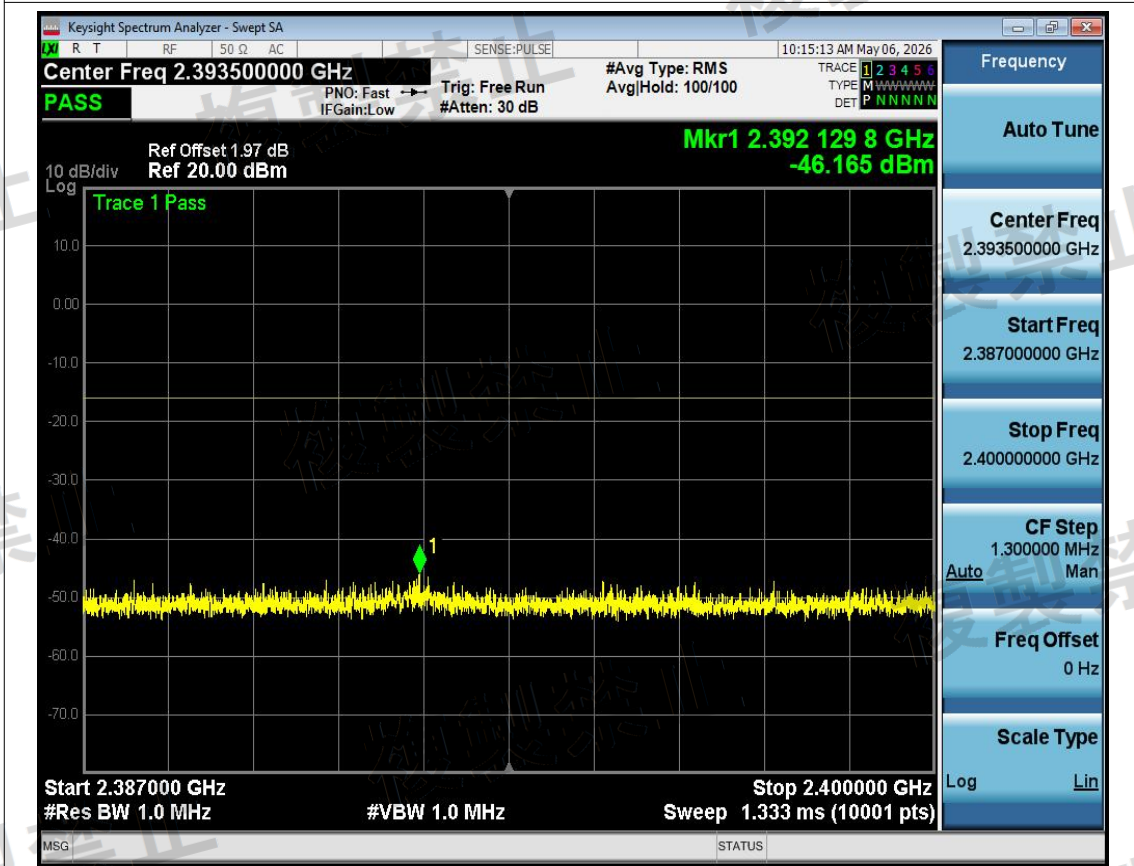
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 2496.5MHz-13000MHz



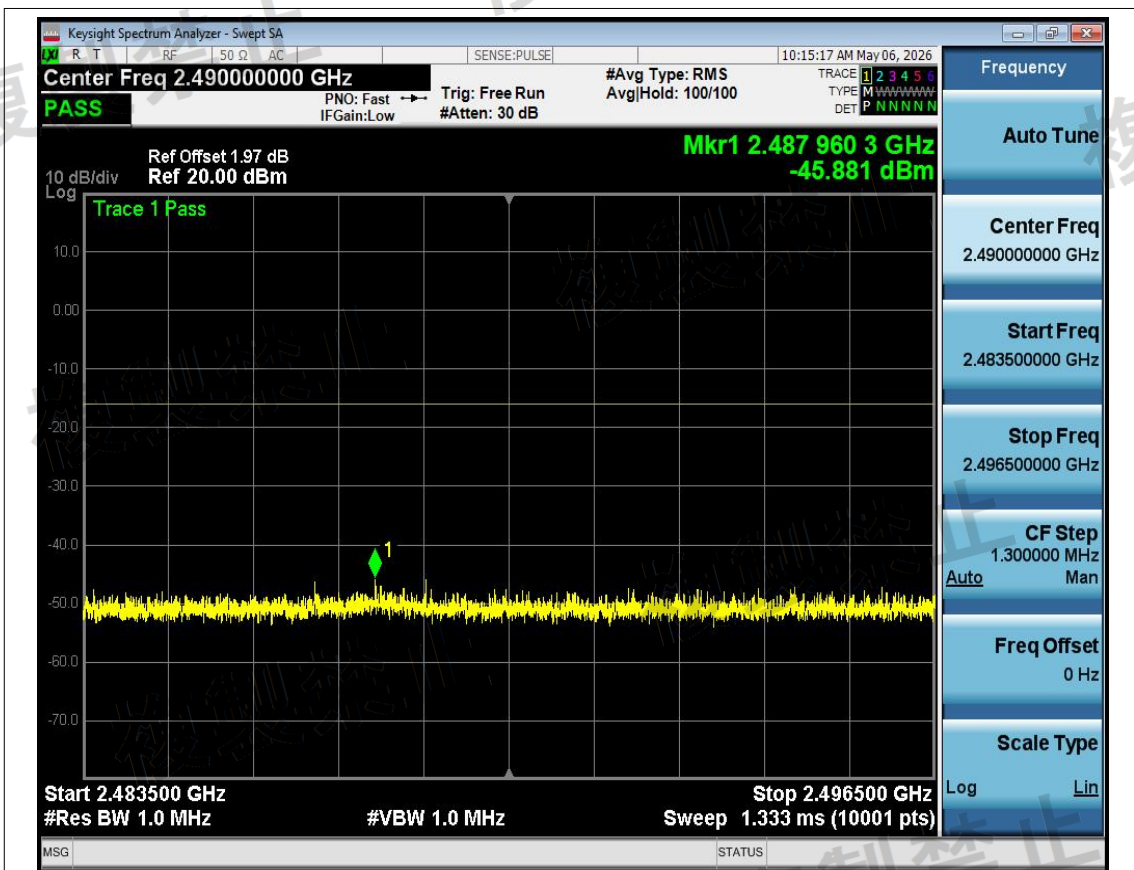
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 30MHz-1000MHz



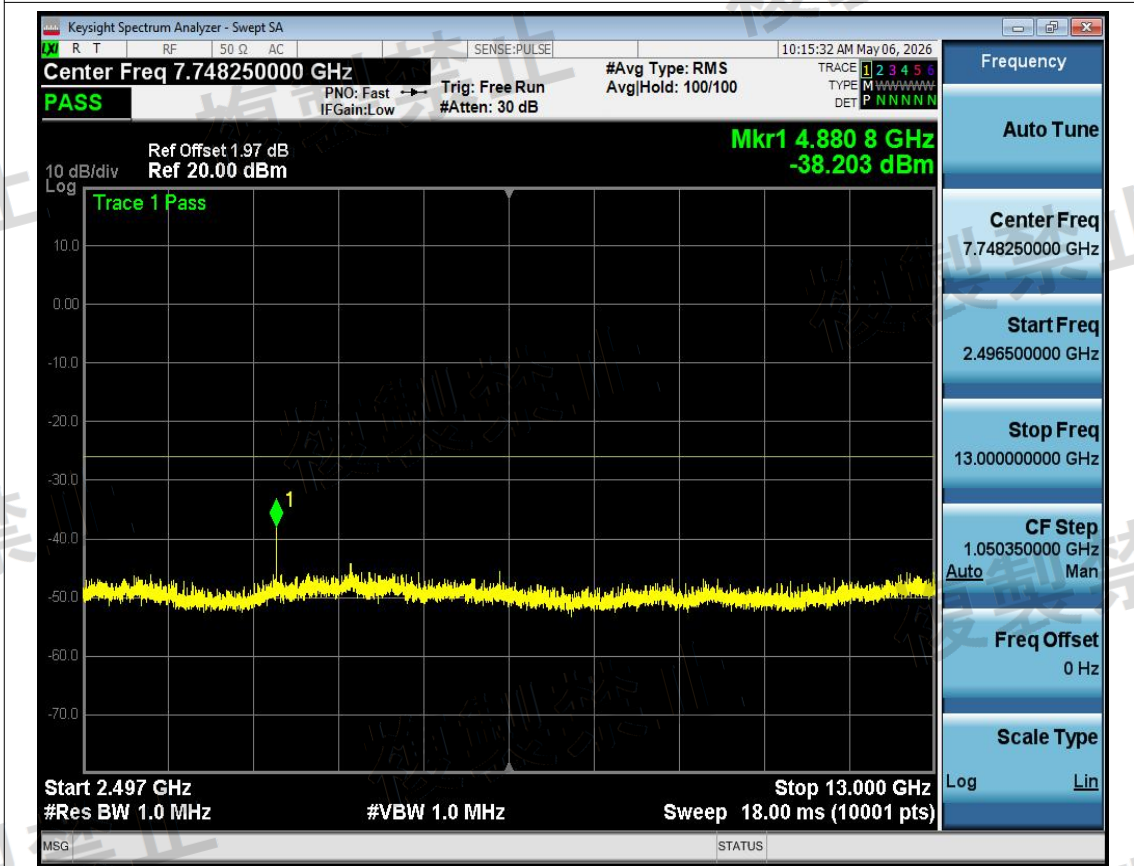
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 1000MHz-2387MHz



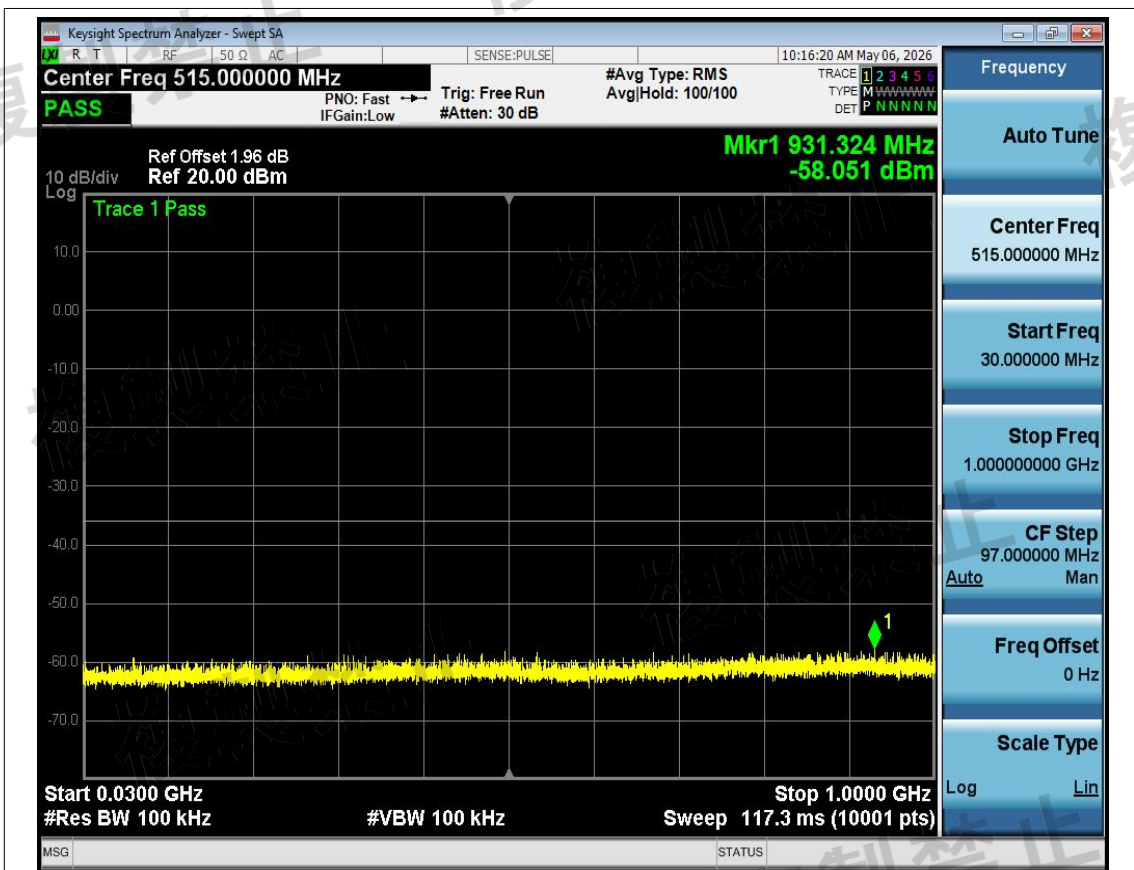
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 2387MHz-2400MHz



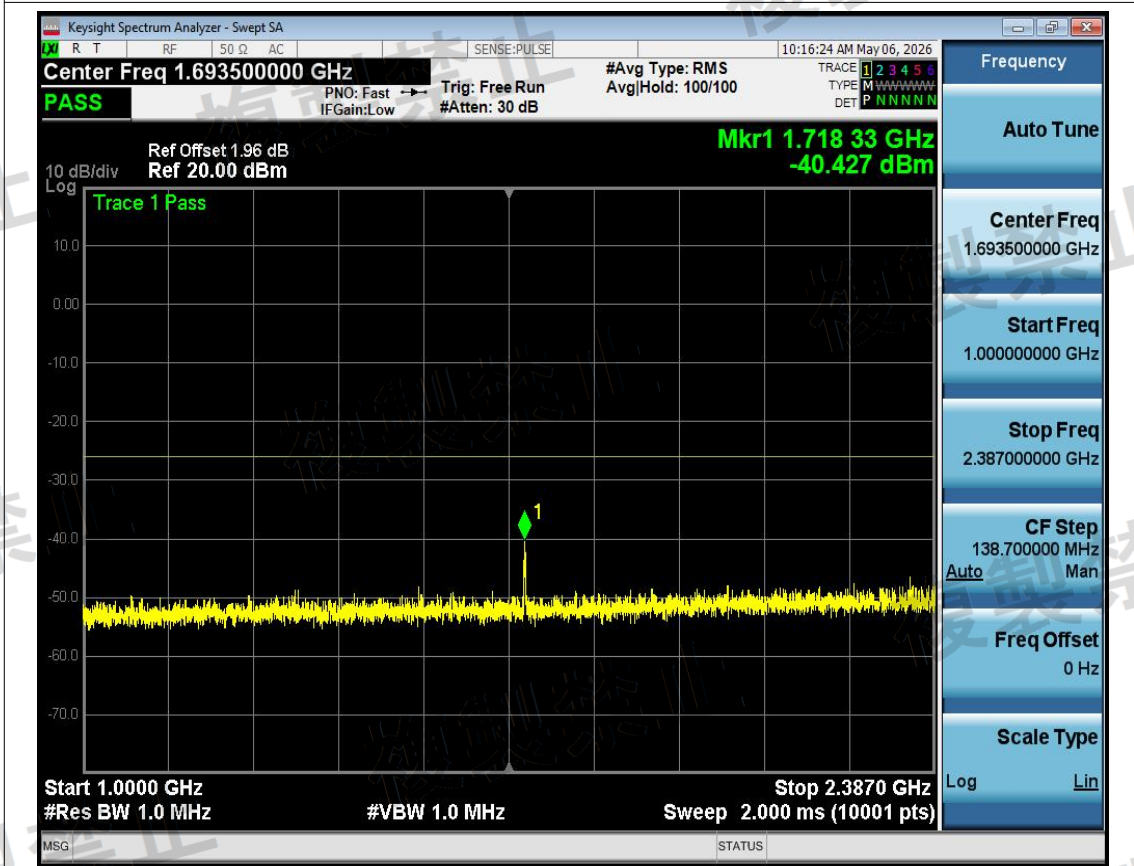
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 2483.5MHz-2496.5MHz



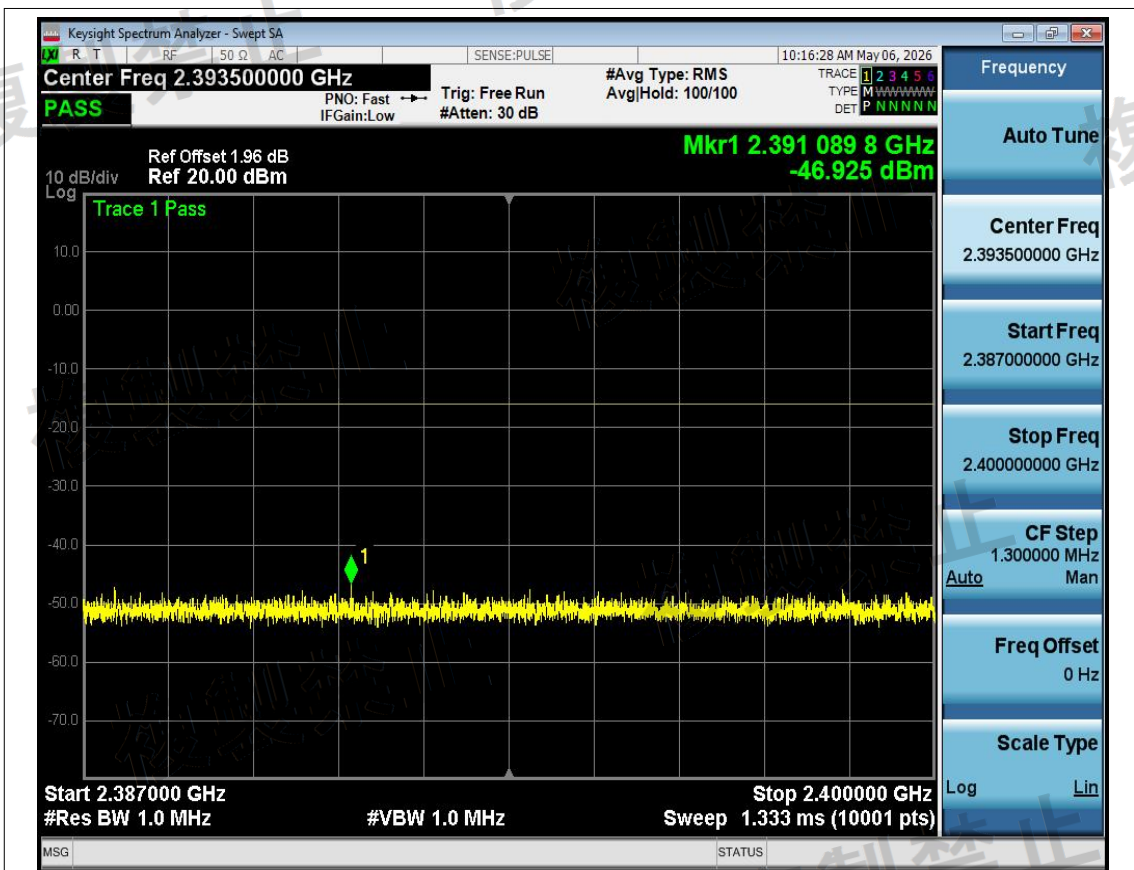
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 2496.5MHz-13000MHz



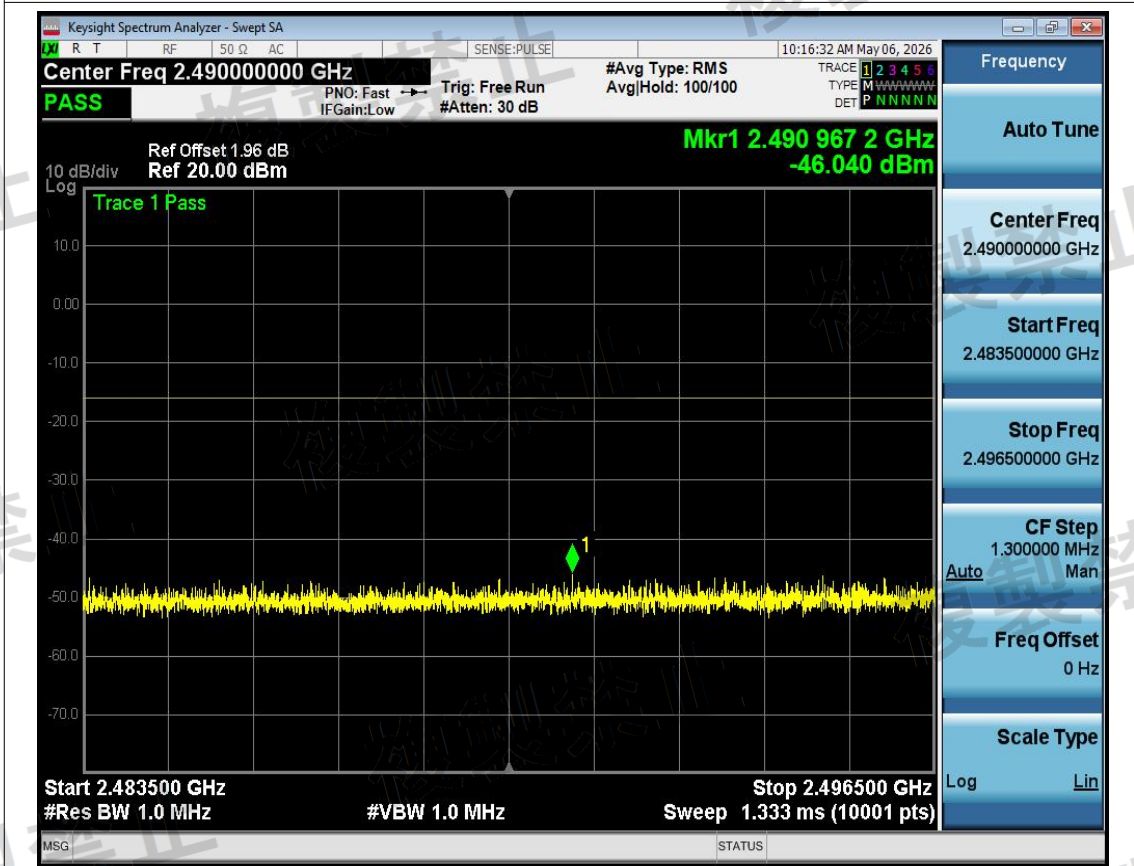
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 30MHz-1000MHz



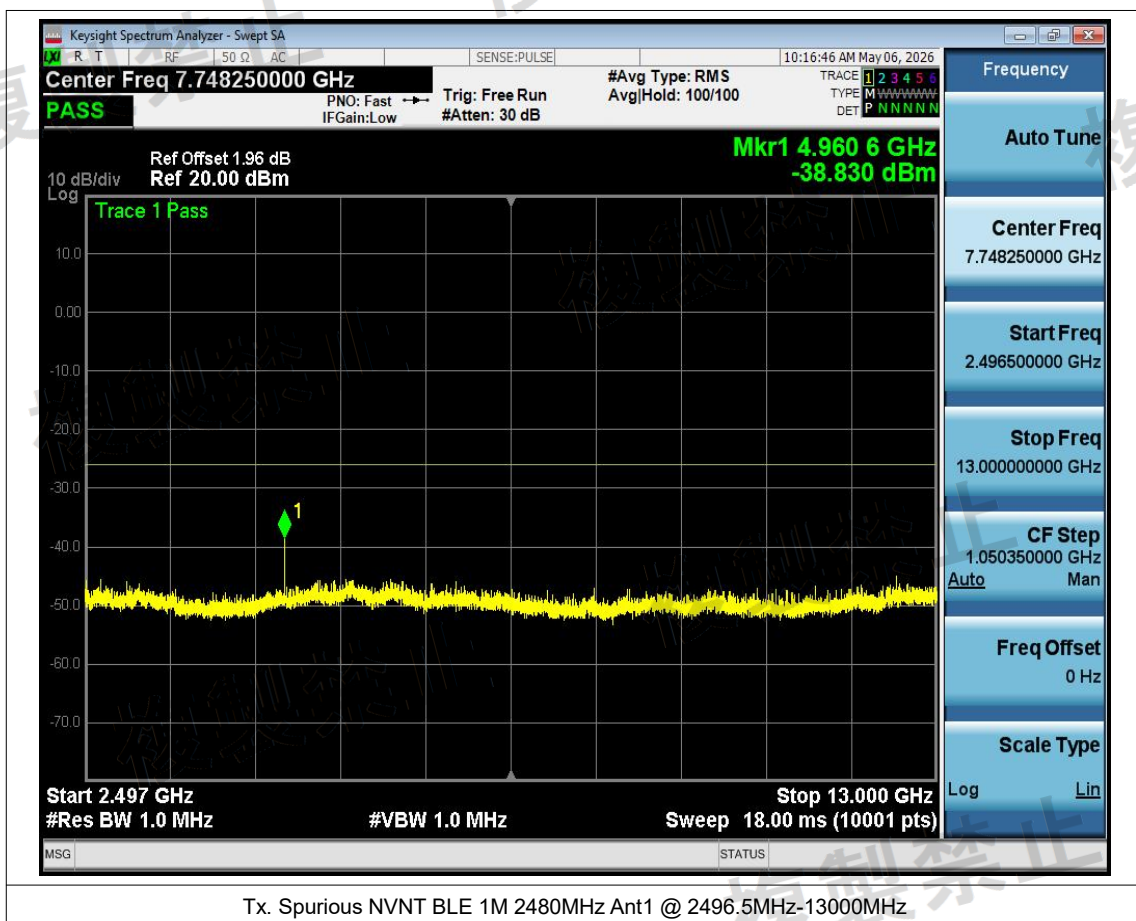
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 @ 1000MHz-2387MHz



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



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

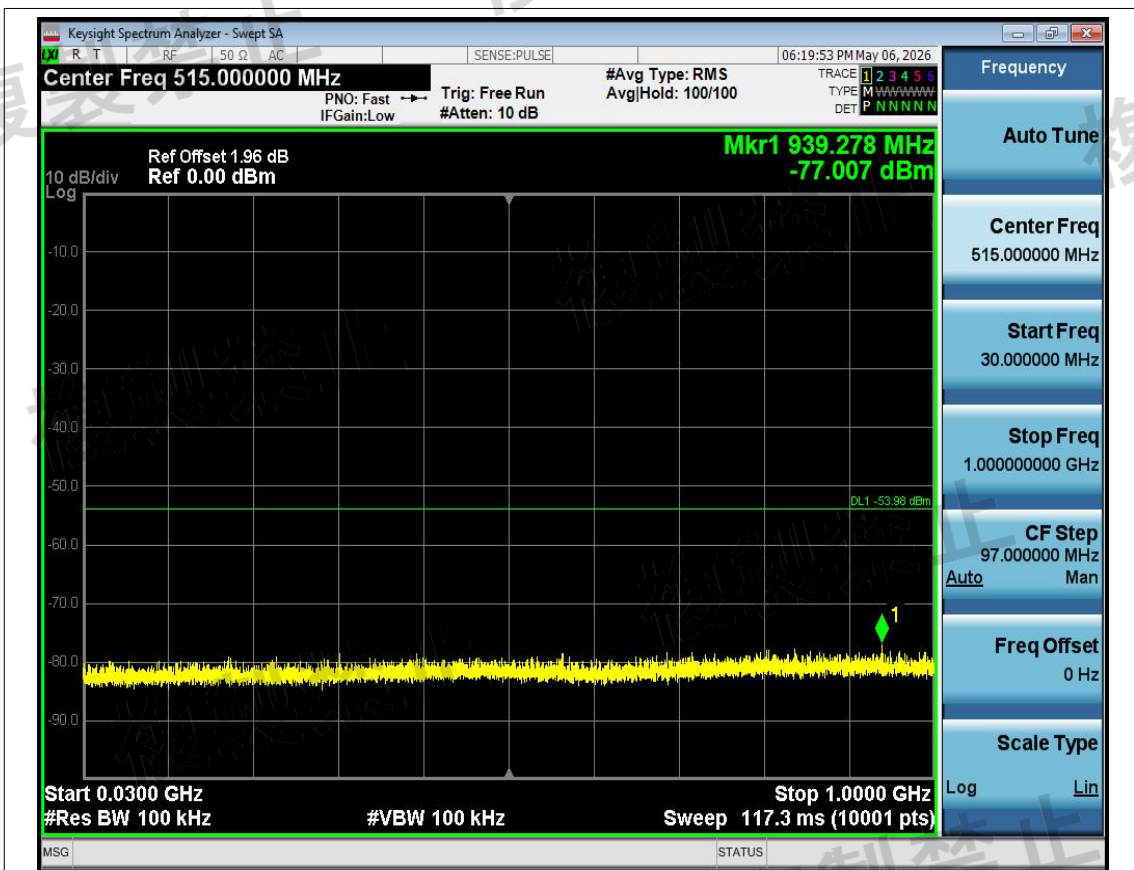




Rx Spurious Emission

Both Wireless earphone L and R were tested, and only the worst data (earphone L) was recorded in the report.

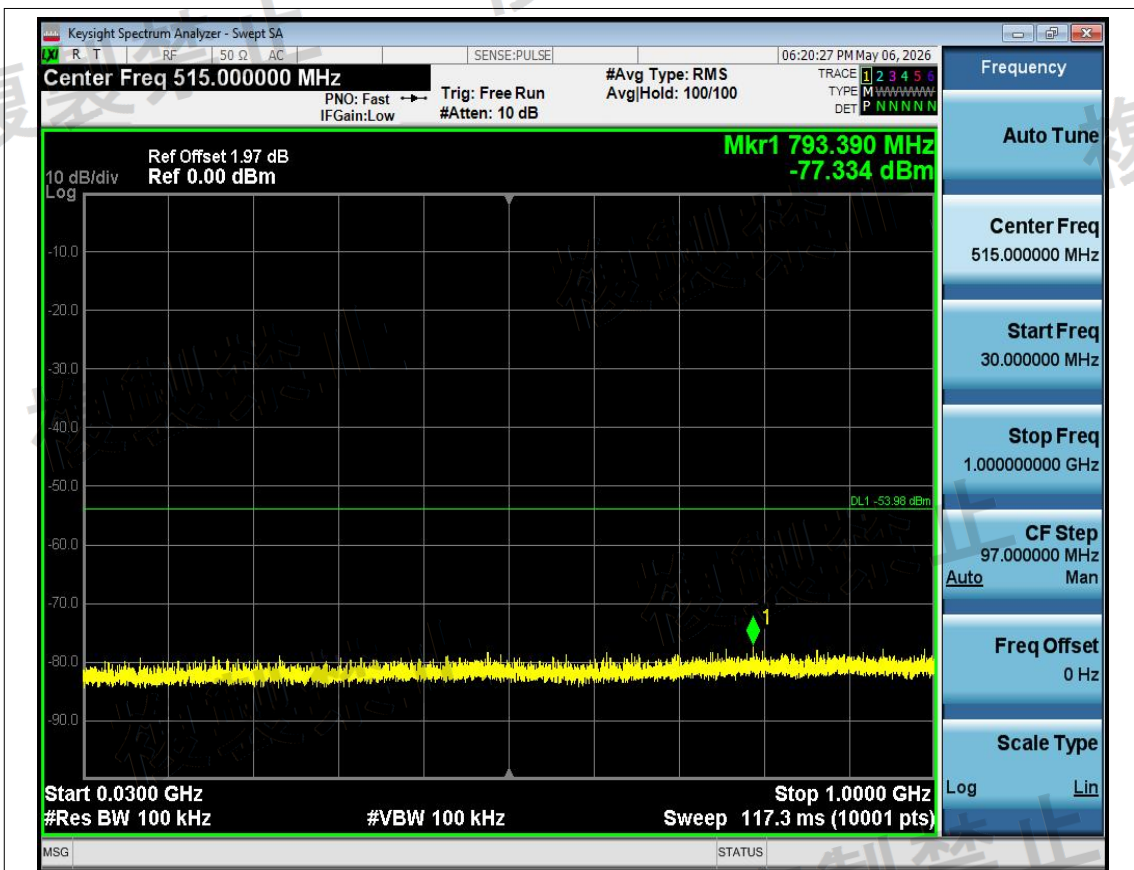
Condi tion	Mod e	Frequen cy (MHz)	Anten na	Range (MHz)	Emissio n Frequen cy (MHz)	Max Peak Valu e (dB m)	Max RMS Valu e (dB m)	Max Peak Valu e (nW)	Max RM S Valu e (nW)	Lim it (nW)	Verdi ct
NVNT	BLE 1M	2402	Ant1	30-1000	939.28	-77.0 1	NA	0.019 9	NA	4	Pass
NVNT	BLE 1M	2402	Ant1	1000-130 00	5762.80	-64.8 2	NA	0.329 6	NA	20	Pass
NVNT	BLE 1M	2440	Ant1	30-1000	793.39	-77.3 3	NA	0.018 5	NA	4	Pass
NVNT	BLE 1M	2440	Ant1	1000-130 00	5750.80	-64.0 6	NA	0.392 6	NA	20	Pass
NVNT	BLE 1M	2480	Ant1	30-1000	769.04	-77.2 2	NA	0.019	NA	4	Pass
NVNT	BLE 1M	2480	Ant1	1000-130 00	5753.20	-65.2 8	NA	0.296 5	NA	20	Pass



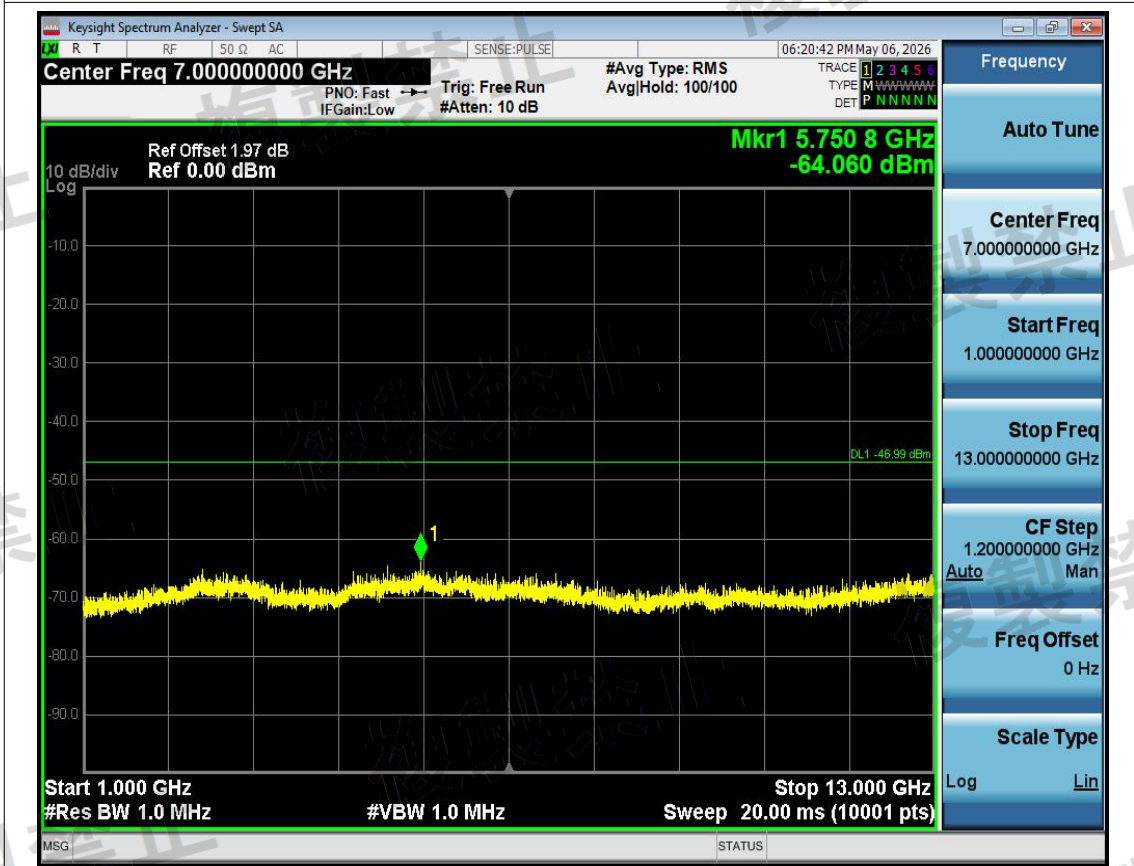
Rx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 30MHz-1000MHz



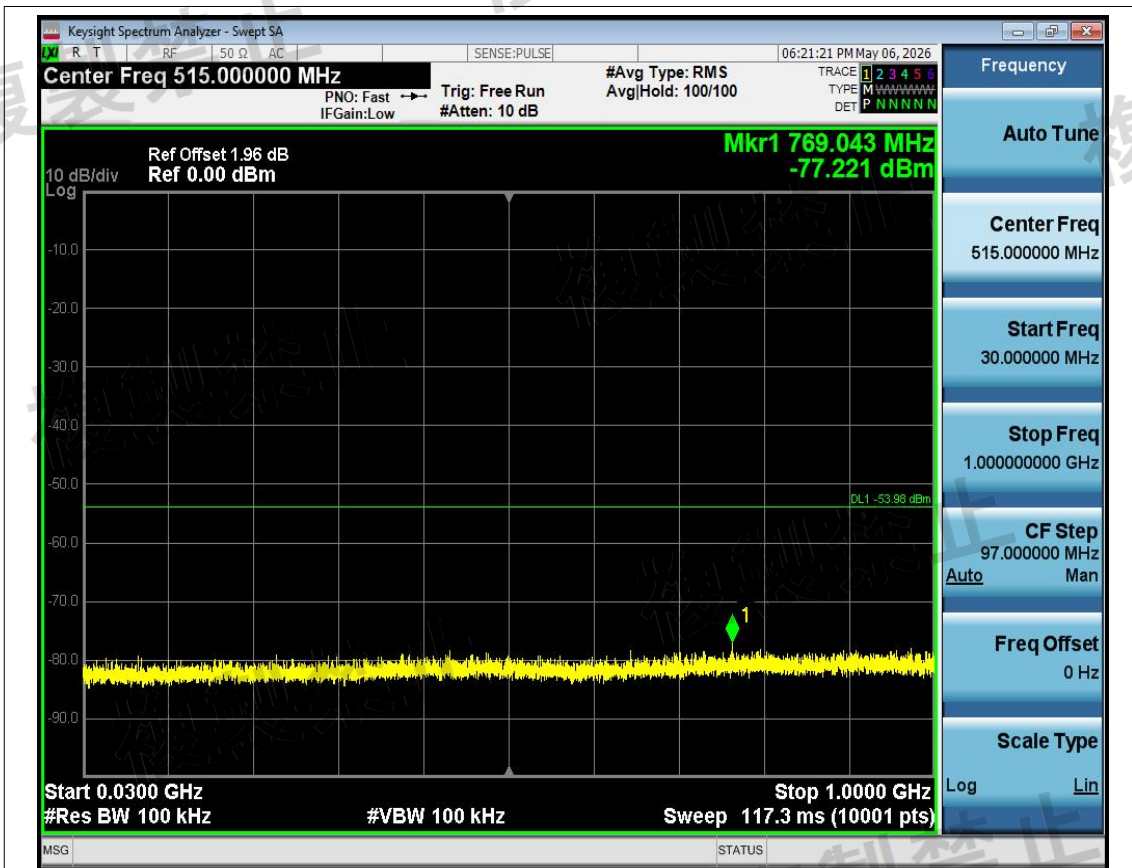
Rx. Spurious NVNT BLE 1M 2402MHz Ant1 @ 1000MHz-13000MHz



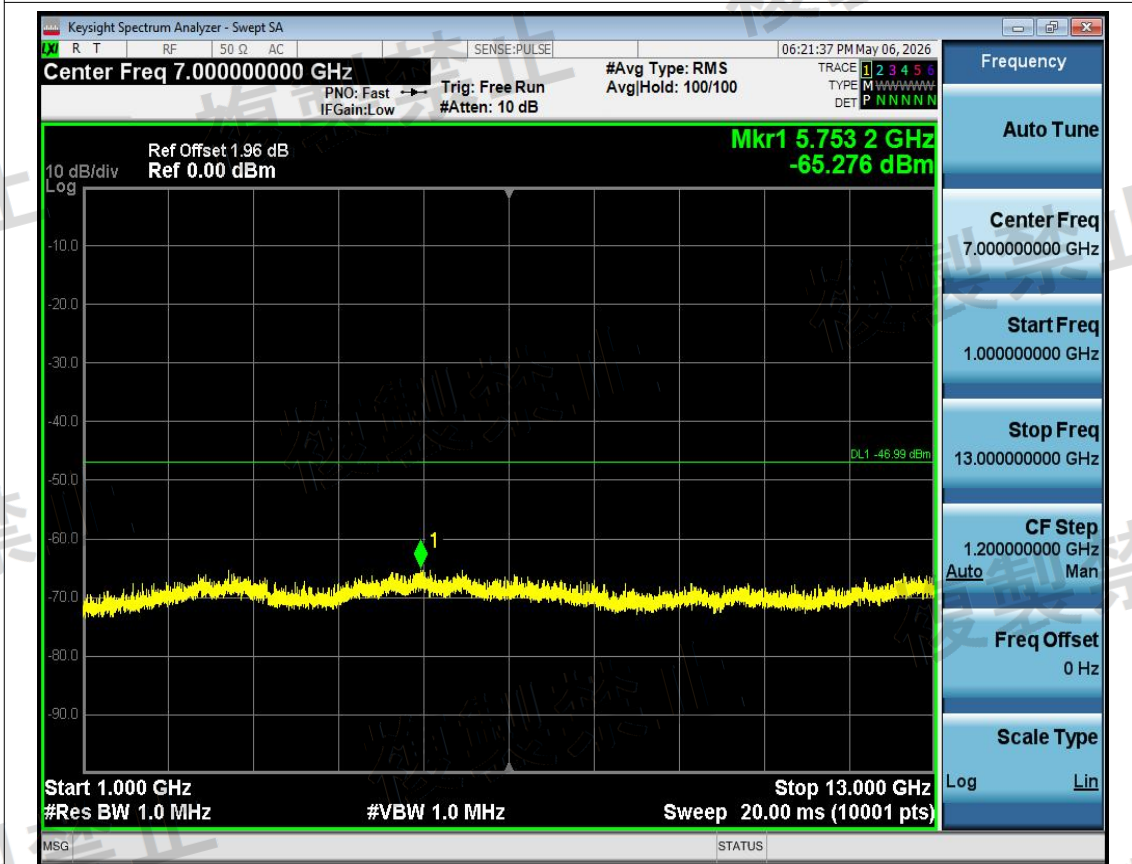
Rx. Spurious NVNT BLE 1M 2440MHz Ant1 @ 30MHz-1000MHz



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



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



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