

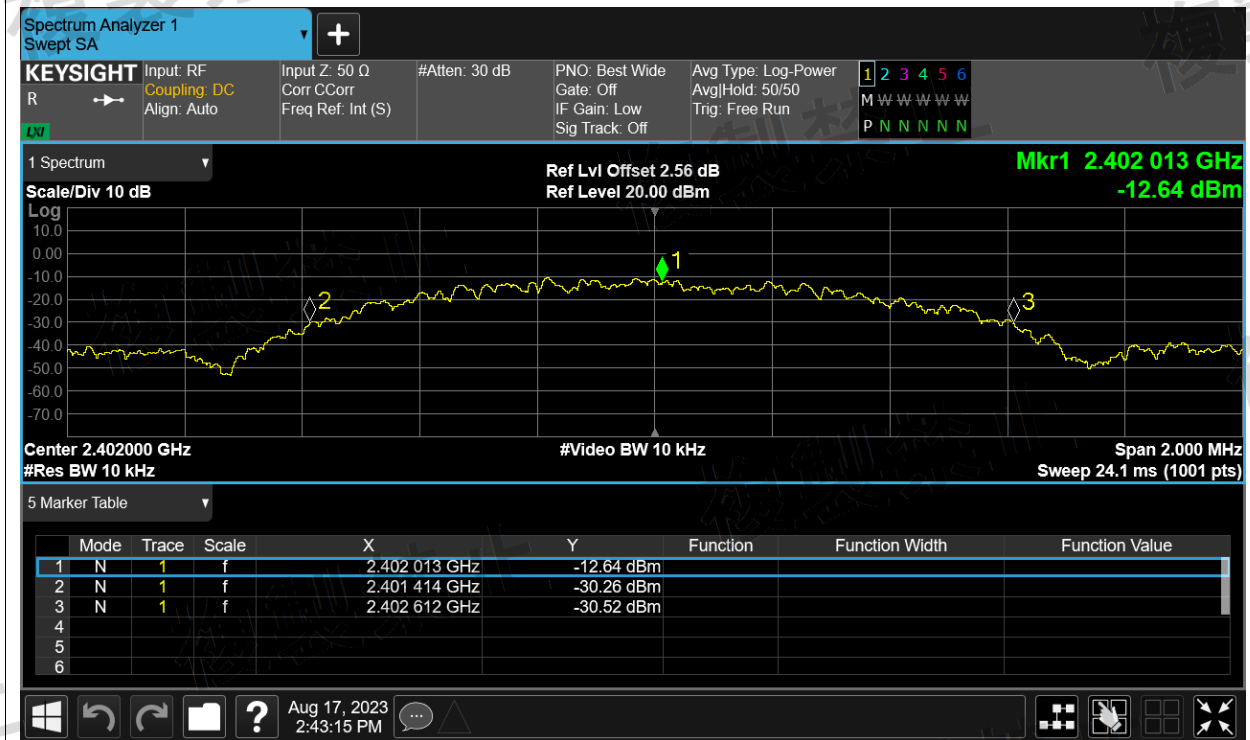
Test Data

Frequency Error

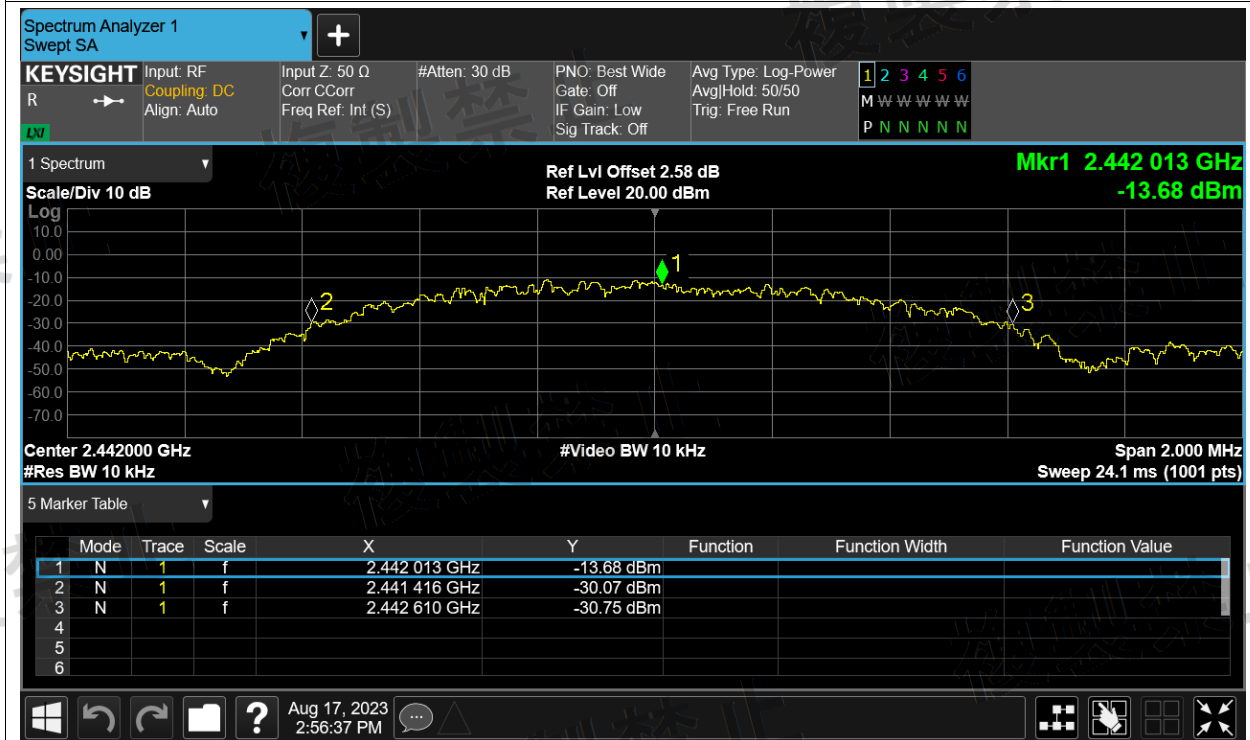
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	BLE	2402	Ant1	2402.013	5.41	50	Pass
NVNT	BLE	2442	Ant1	2442.013	5.32	50	Pass
NVNT	BLE	2480	Ant1	2480.012	4.84	50	Pass

Test Graphs

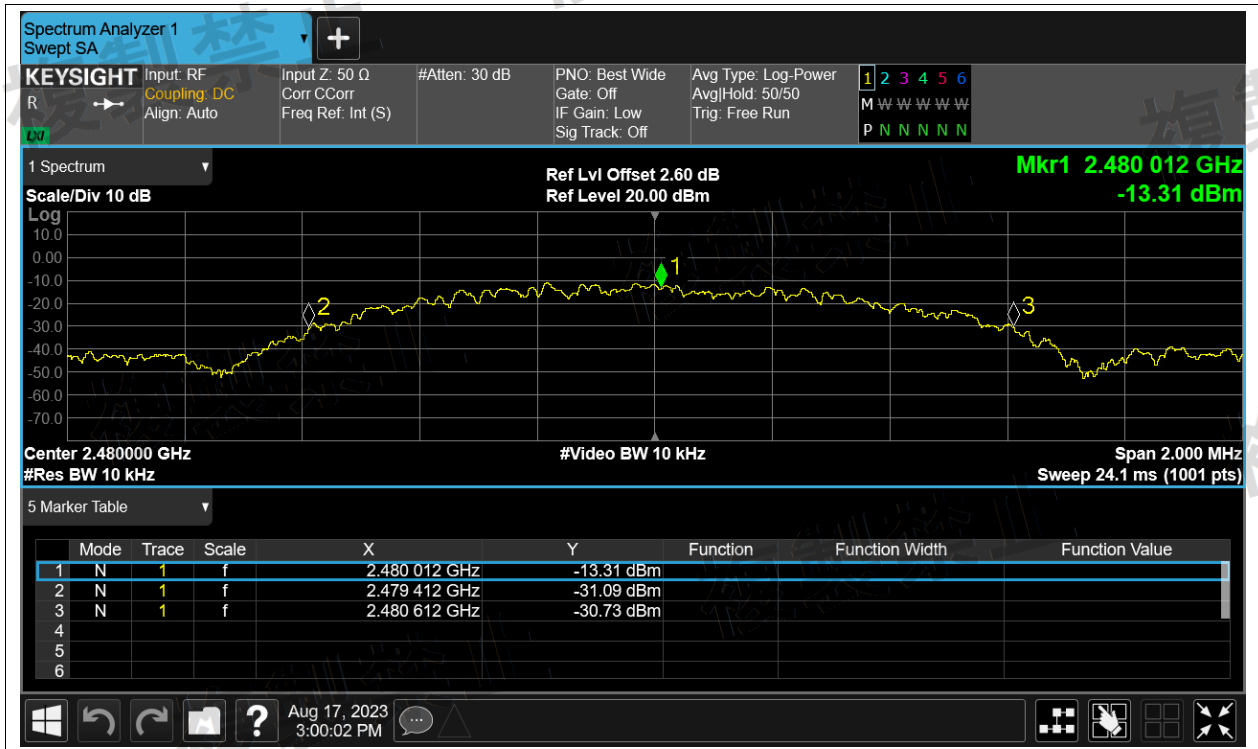
Freq. Error NVNT BLE 2402MHz Ant1



Freq. Error NVNT BLE 2442MHz Ant1



Freq. Error NVNT BLE 2480MHz Ant1

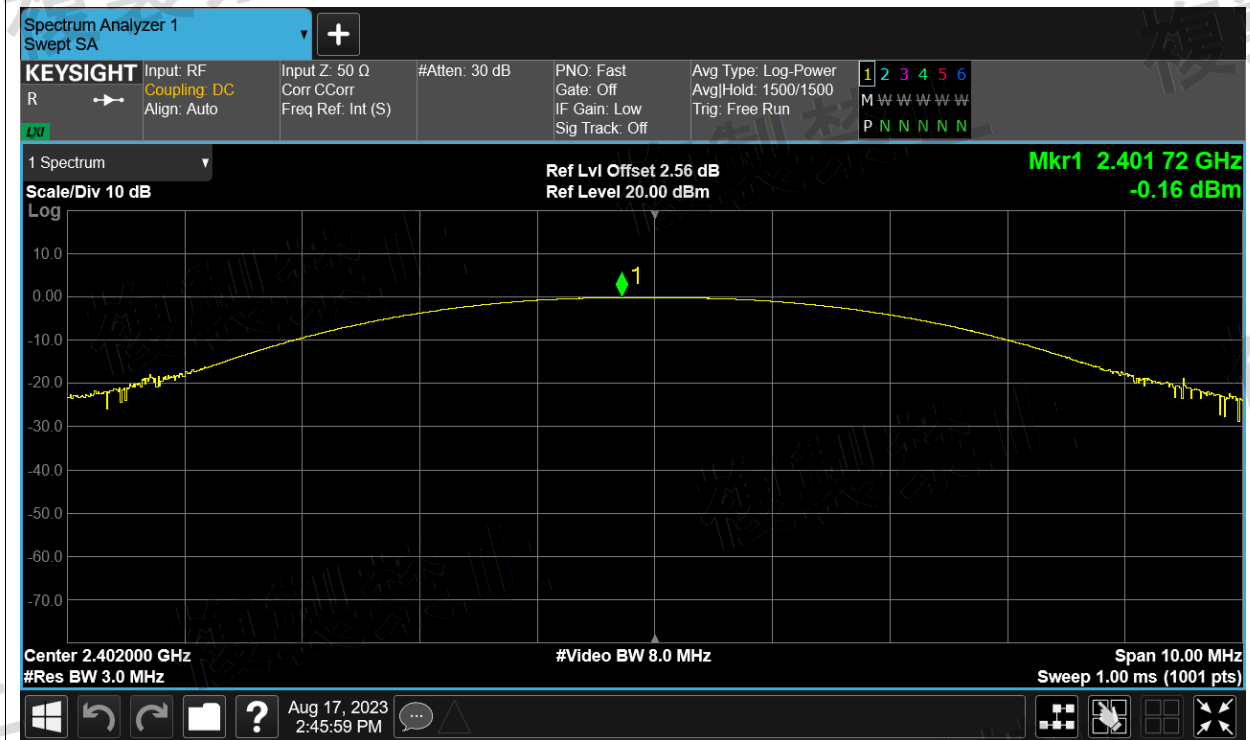


Antenna Power

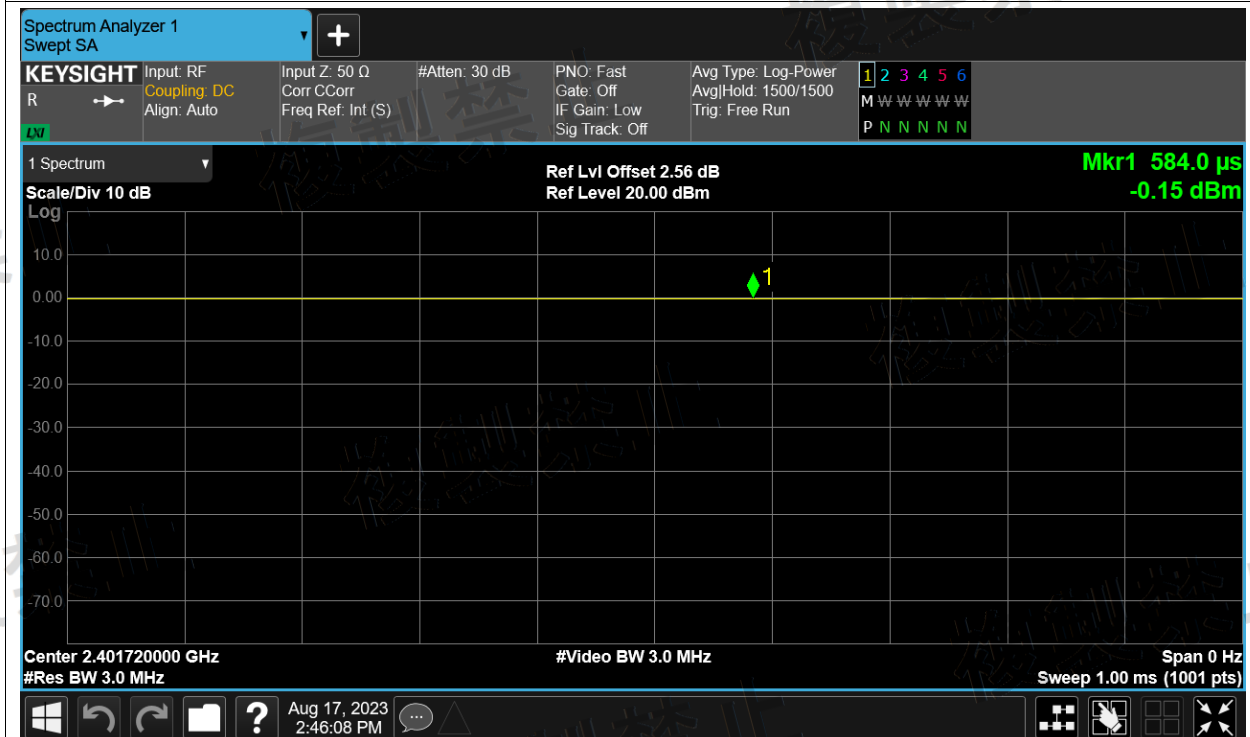
Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Antenna Power (mW)	Limit (mW)	Declared Power (mW)	Tolerance (%)	Upper Limit (%)	Lower Limit (%)	Verdict
NVNT	BLE	2402	Ant1	-0.15	0.966	10	1	-3.4	20	-80	Pass
NVNT	BLE	2442	Ant1	-0.61	0.869	10	1	-13.1	20	-80	Pass
NVNT	BLE	2480	Ant1	-0.63	0.865	10	1	-13.5	20	-80	Pass

Test Graphs

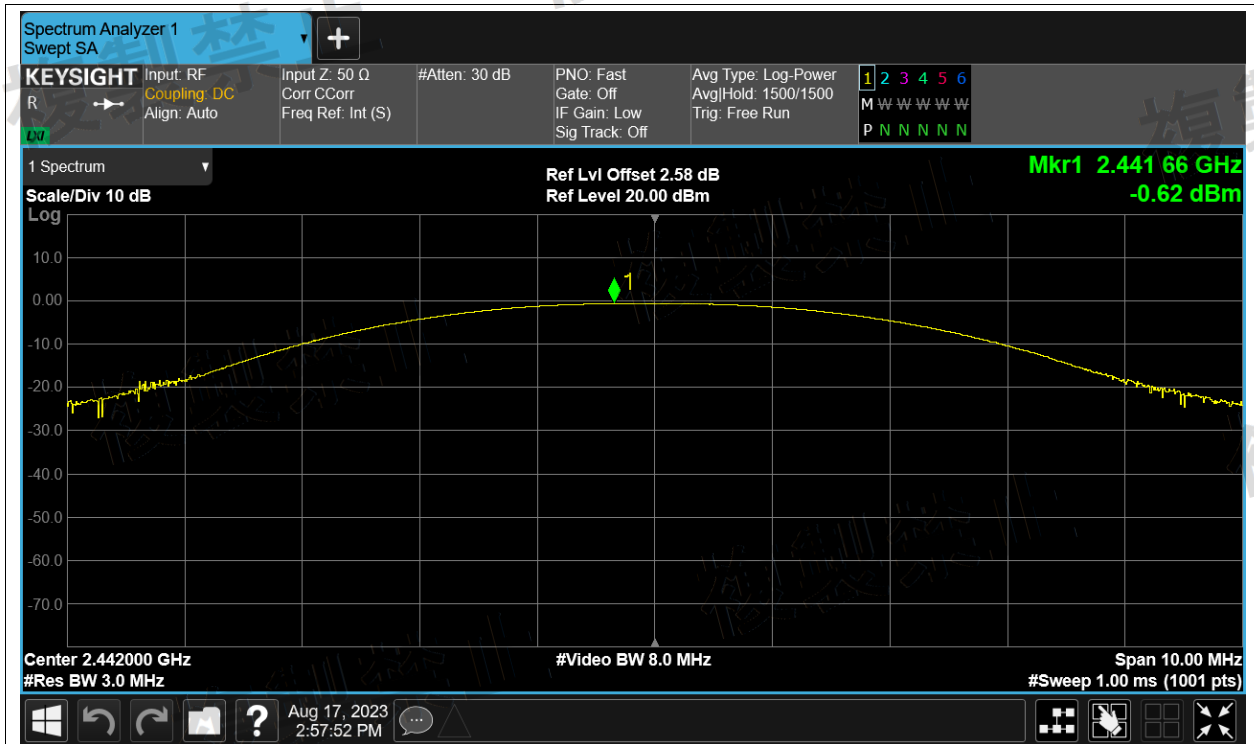
Power NVNT BLE 2402MHz Ant1 Pre Scan



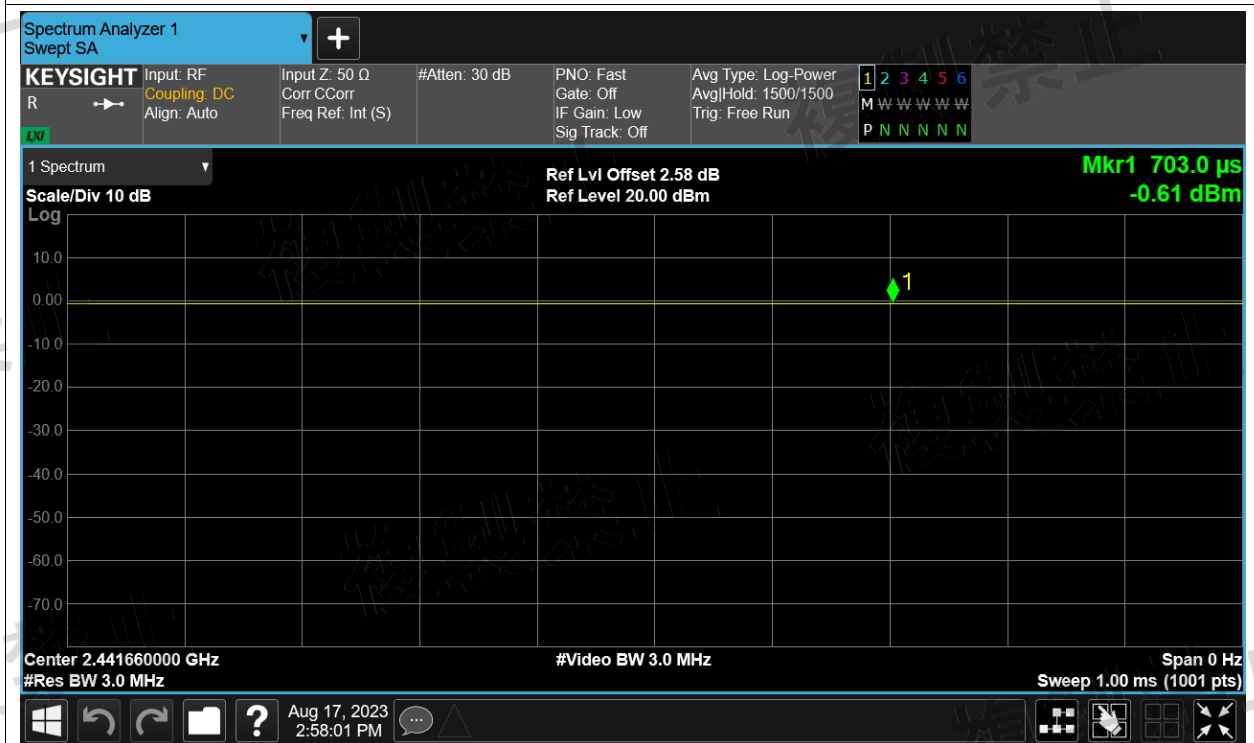
Power NVNT BLE 2402MHz Ant1 Zero Span



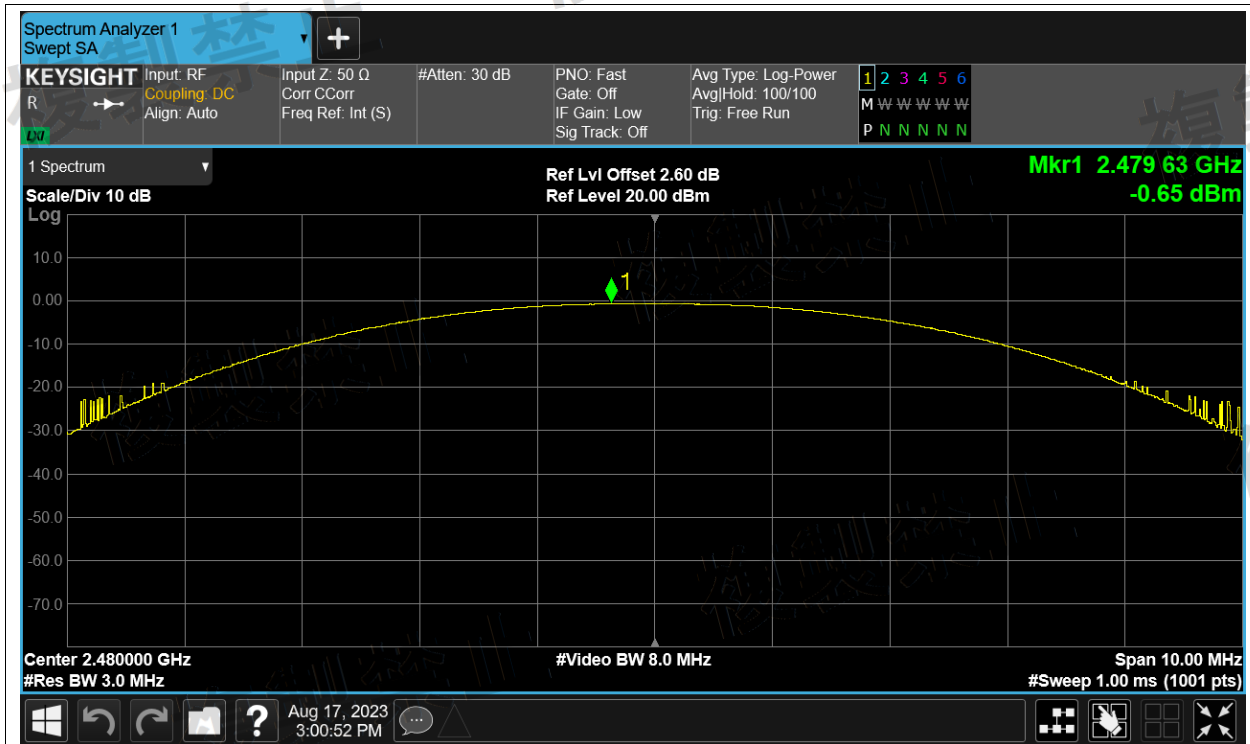
Power NVNT BLE 2442MHz Ant1 Pre Scan



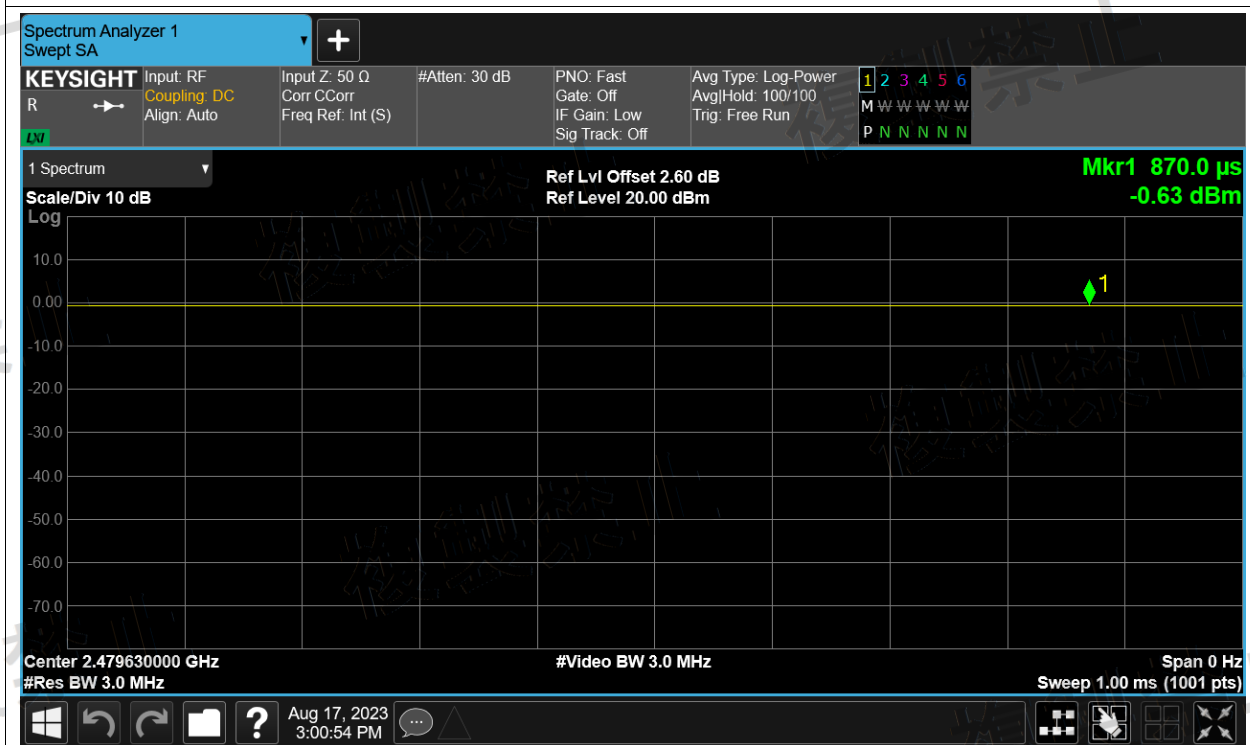
Power NVNT BLE 2442MHz Ant1 Zero Span



Power NVNT BLE 2480MHz Ant1 Pre Scan



Power NVNT BLE 2480MHz Ant1 Zero Span

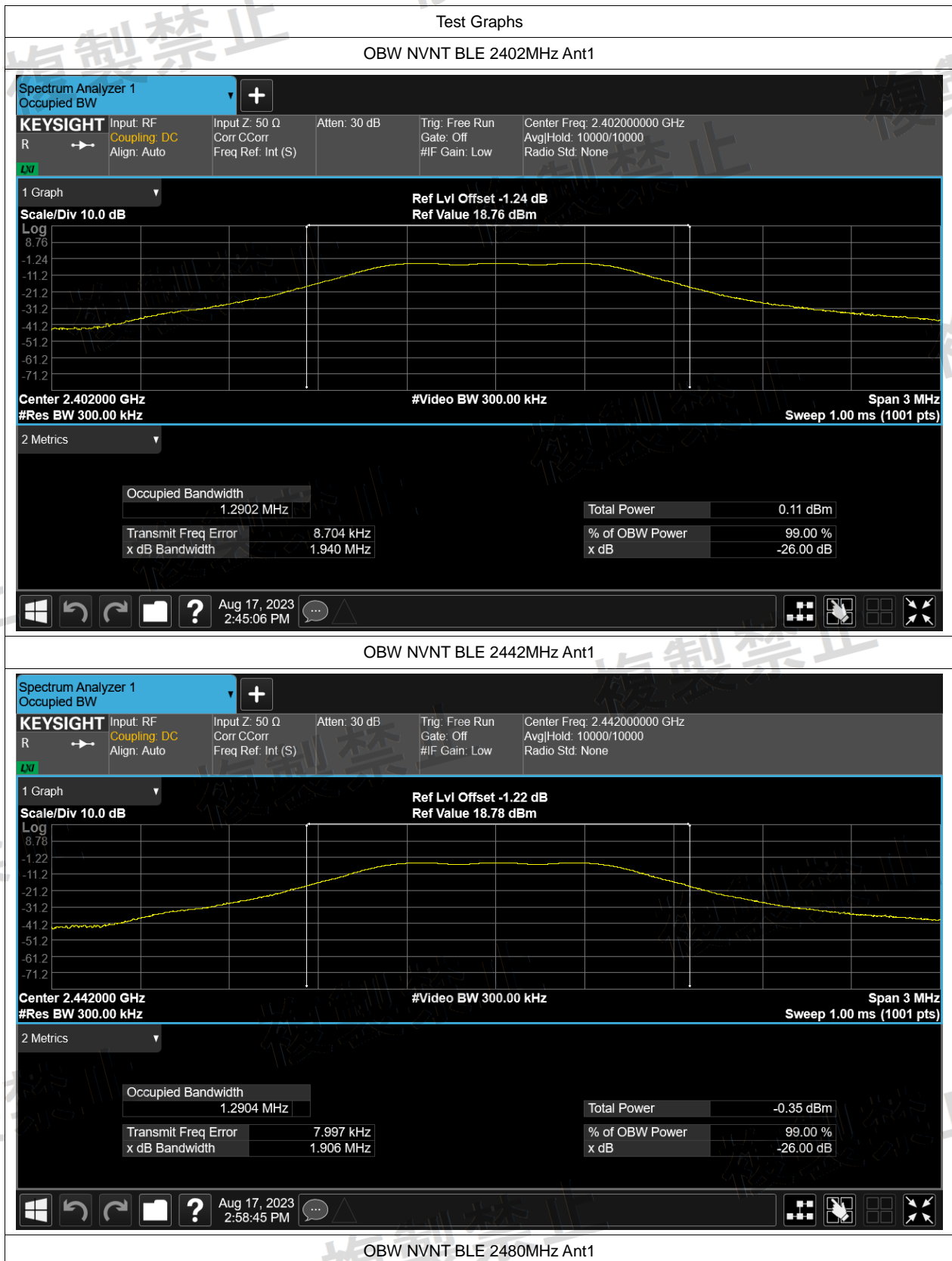


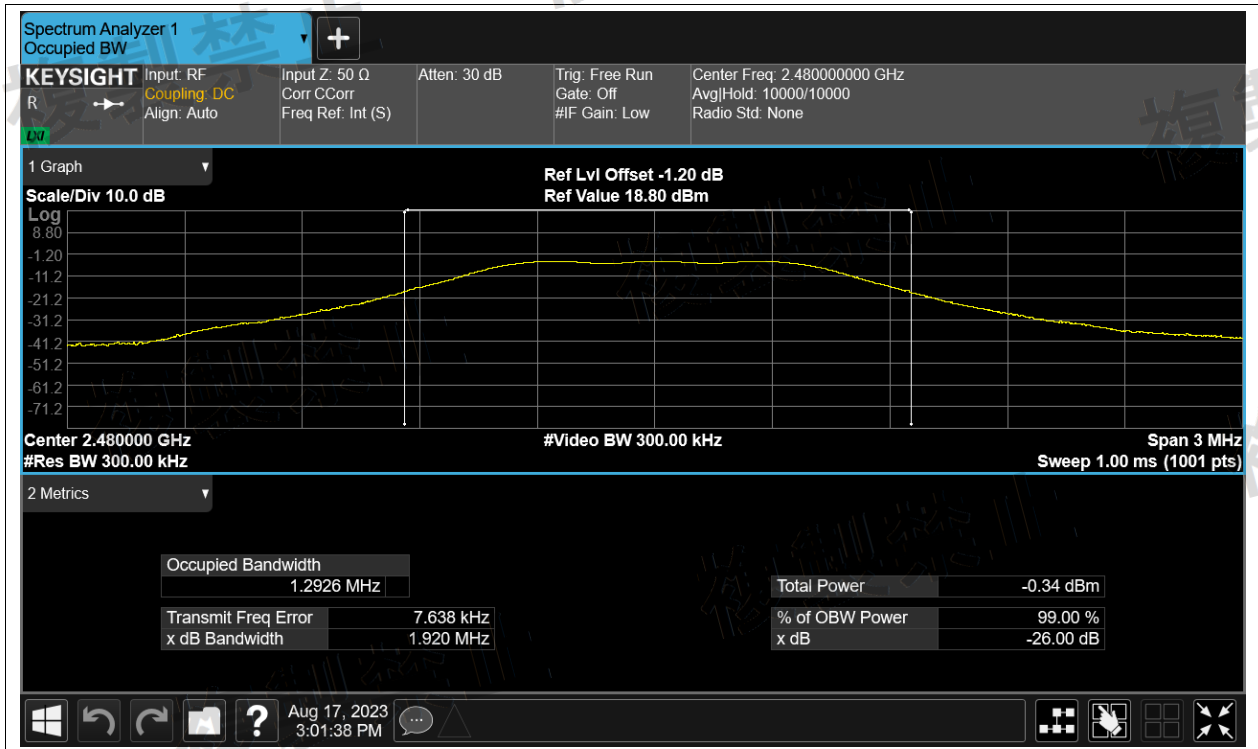
EIRP Power

Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW)	Gain (dBi)	EIRP Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	0.966	-3.8	-3.95	12.14	Pass
NVNT	BLE	2442	Ant1	0.869	-3.8	-4.41	12.14	Pass
NVNT	BLE	2480	Ant1	0.865	-3.8	-4.42	12.14	Pass

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	1.29
NVNT	BLE	2442	Ant1	1.29
NVNT	BLE	2480	Ant1	1.293



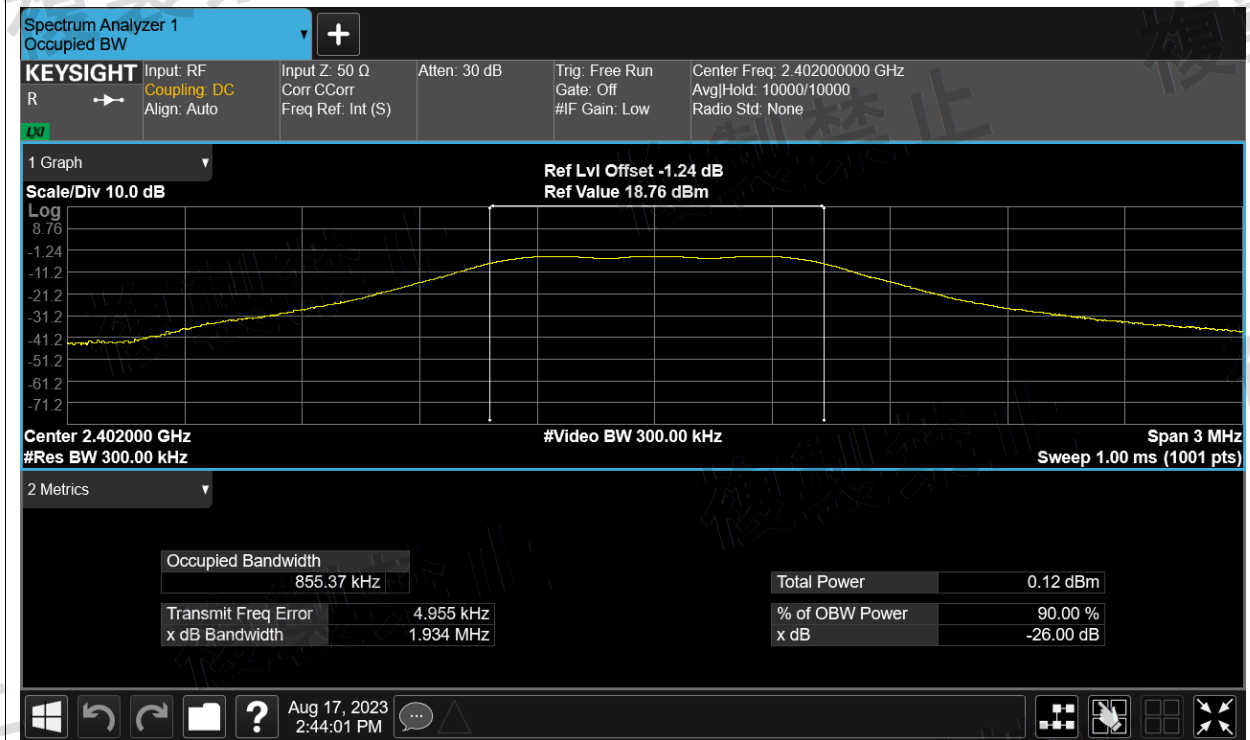


Spreading Bandwidth

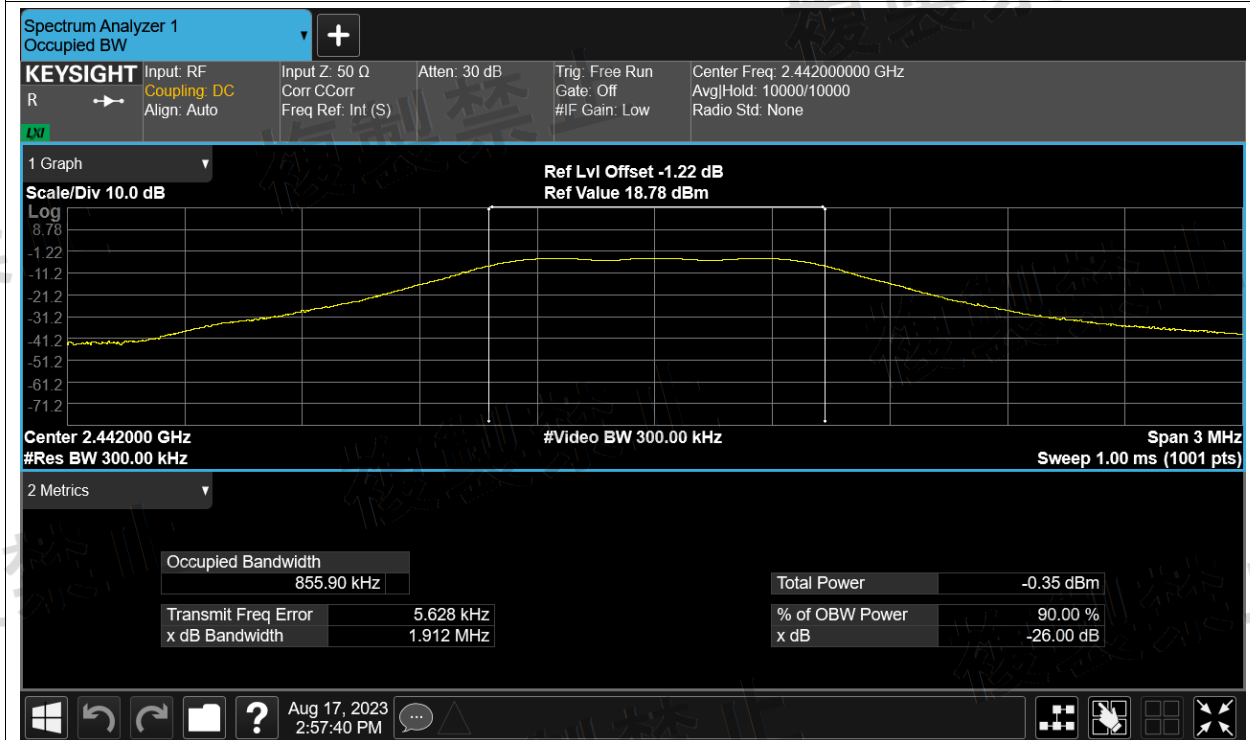
Condition	Mode	Frequency (MHz)	Antenna	90% OBW (MHz)	Limit (MHz)	Verdict
NVNT	BLE	2402	Ant1	0.855	0.5	Pass
NVNT	BLE	2442	Ant1	0.856	0.5	Pass
NVNT	BLE	2480	Ant1	0.857	0.5	Pass

Test Graphs

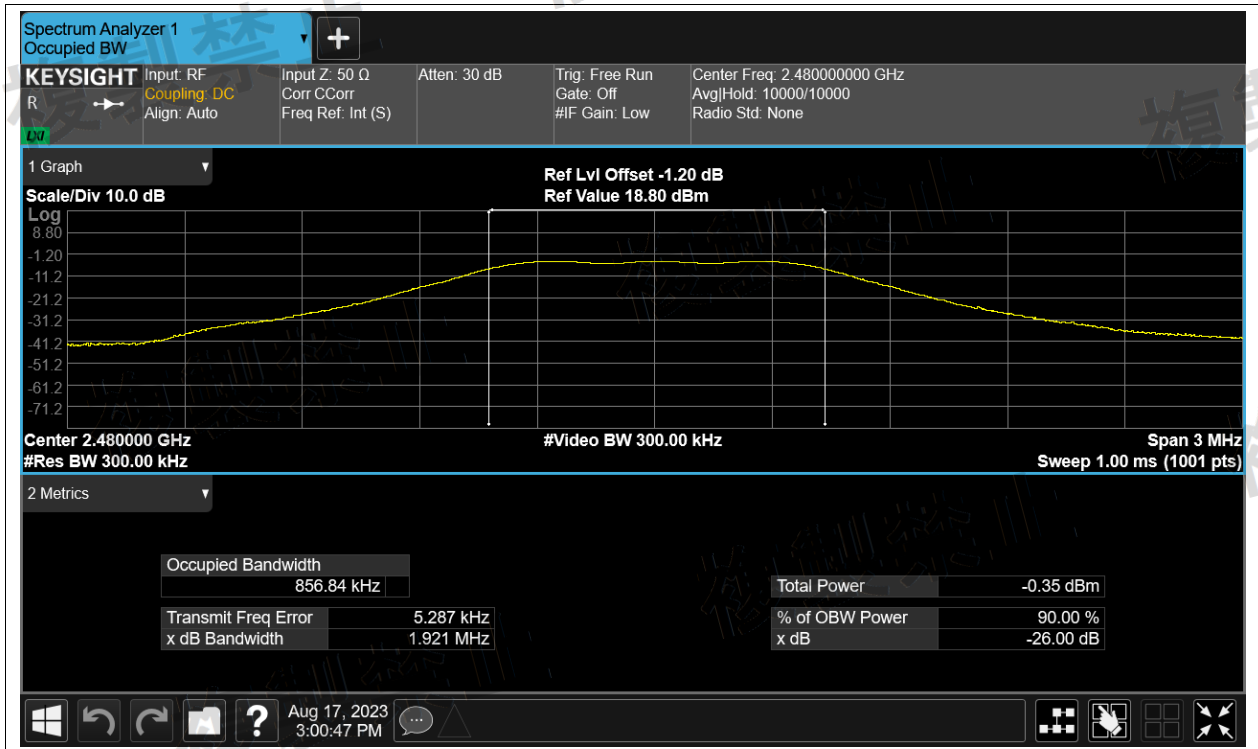
Spreading Bandwidth NVNT BLE 2402MHz Ant1



Spreading Bandwidth NVNT BLE 2442MHz Ant1



Spreading Bandwidth NVNT BLE 2480MHz Ant1



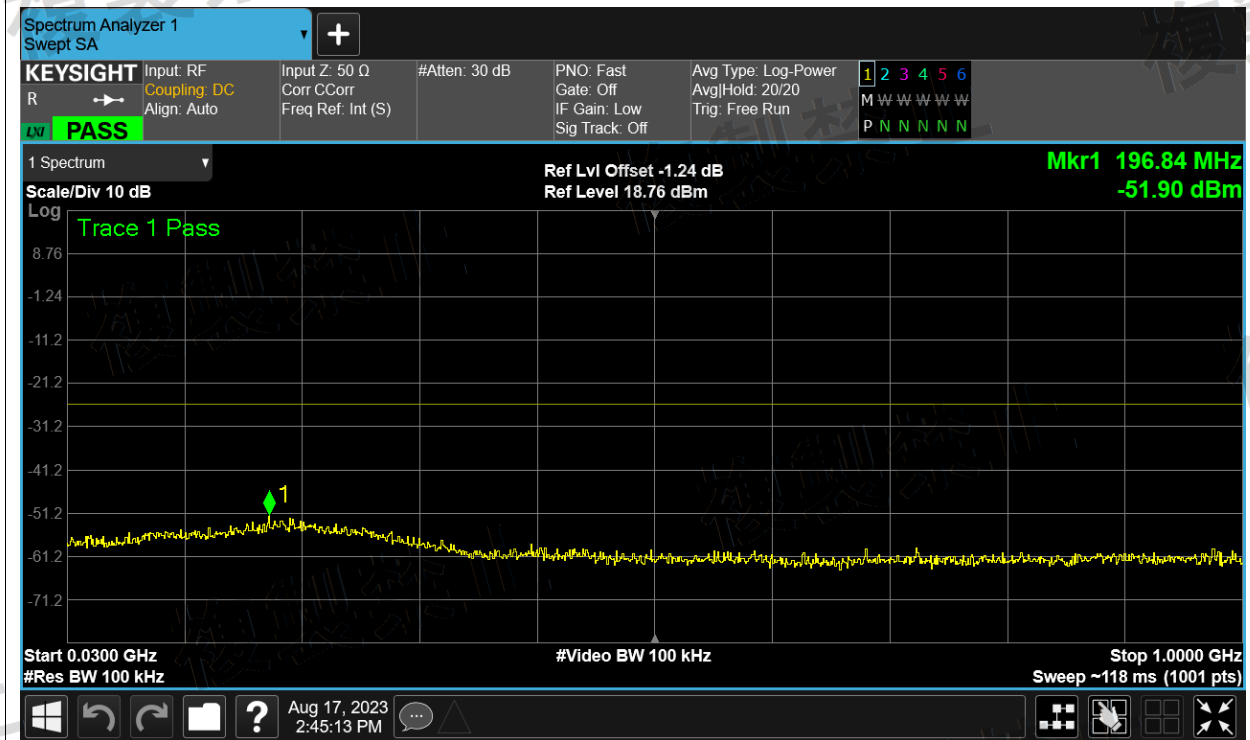
Tx Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit Start(dBm)	Limit Stop (dBm)	Verdict
NVNT	BLE	2402	Ant1	30-1000	196.84	-41.9	-26	-26	Pass
NVNT	BLE	2402	Ant1	1000-2387	2274.65	-45.4	-26	-26	Pass
NVNT	BLE	2402	Ant1	2387-2400	2399.82	-35.43	-16	-16	Pass
NVNT	BLE	2402	Ant1	2483.5-2496.5	2493.33	-46.72	-16	-16	Pass
NVNT	BLE	2402	Ant1	2496.5-13000	2517.51	-47.76	-26	-26	Pass
NVNT	BLE	2442	Ant1	30-1000	232.73	-41.51	-26	-26	Pass
NVNT	BLE	2442	Ant1	1000-2387	2313.49	-46.18	-26	-26	Pass
NVNT	BLE	2442	Ant1	2387-2400	2398.27	-47.32	-16	-16	Pass
NVNT	BLE	2442	Ant1	2483.5-2496.5	2488.53	-47.95	-16	-16	Pass
NVNT	BLE	2442	Ant1	2496.5-13000	3851.45	-48.06	-26	-26	Pass
NVNT	BLE	2480	Ant1	30-1000	213.33	-41.05	-26	-26	Pass
NVNT	BLE	2480	Ant1	1000-2387	2352.32	-45.9	-26	-26	Pass
NVNT	BLE	2480	Ant1	2387-2400	2388.08	-46.95	-16	-16	Pass
NVNT	BLE	2480	Ant1	2483.5-2496.5	2484.5	-41.1	-16	-16	Pass
NVNT	BLE	2480	Ant1	2496.5-13000	2549.02	-48.26	-26	-26	Pass

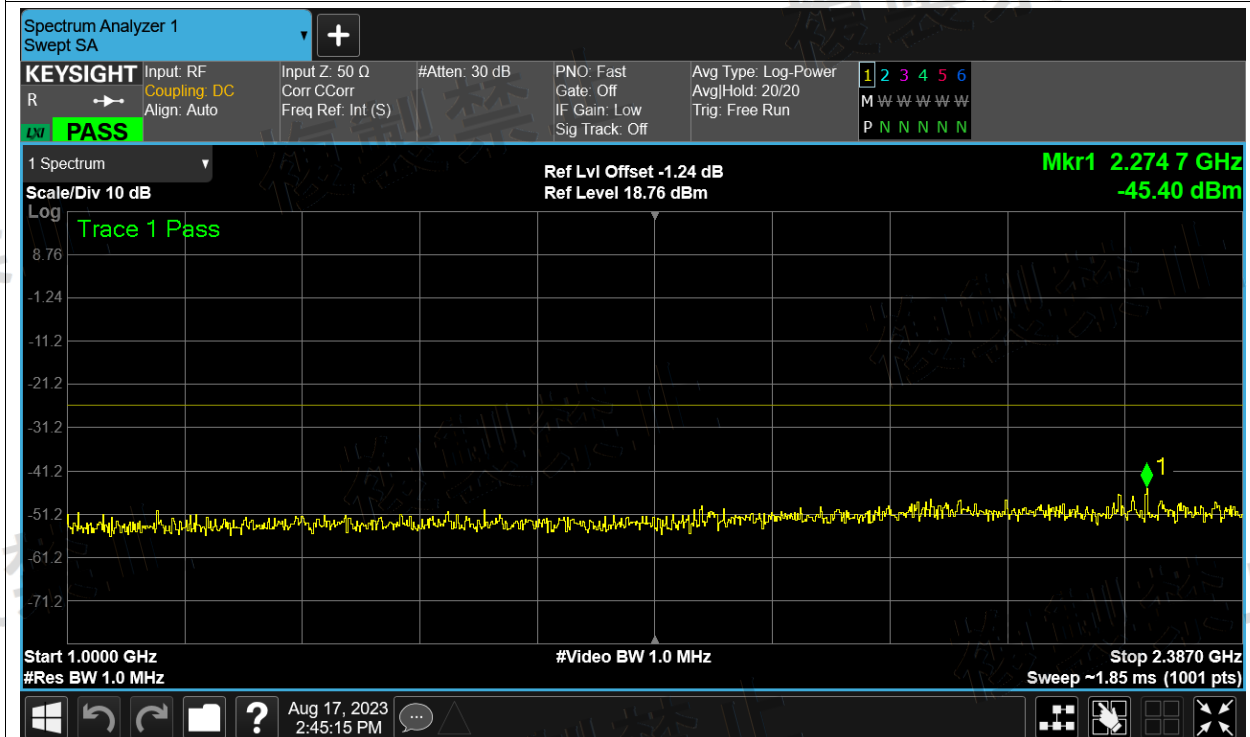
Note: For 30MHz~1000MHz, Max Value = $10 \times \log_{10}(\text{RBW}_{\text{ref}}/\text{RBW}_{\text{measurement}}) + \text{read value}$,
 Max Value = 10+ read value

Test Graphs

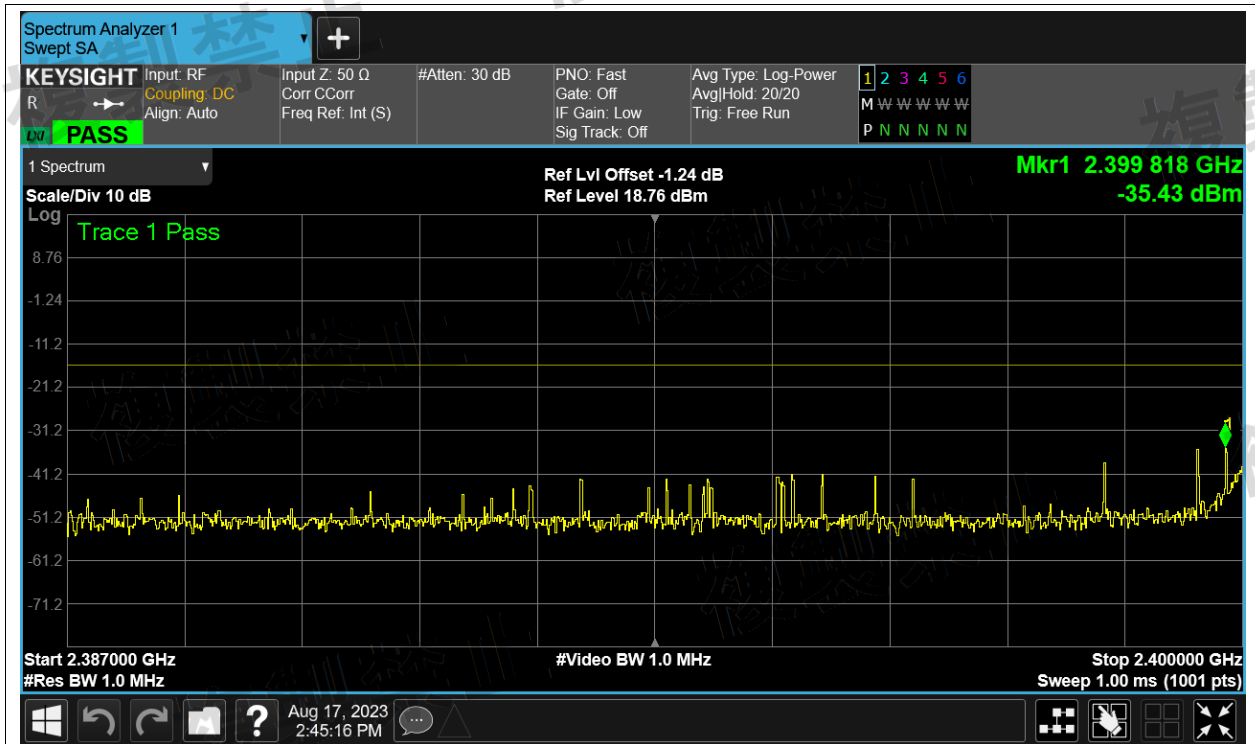
Tx. Spurious NVNT BLE 2402MHz Ant1 @ 30MHz-1000MHz



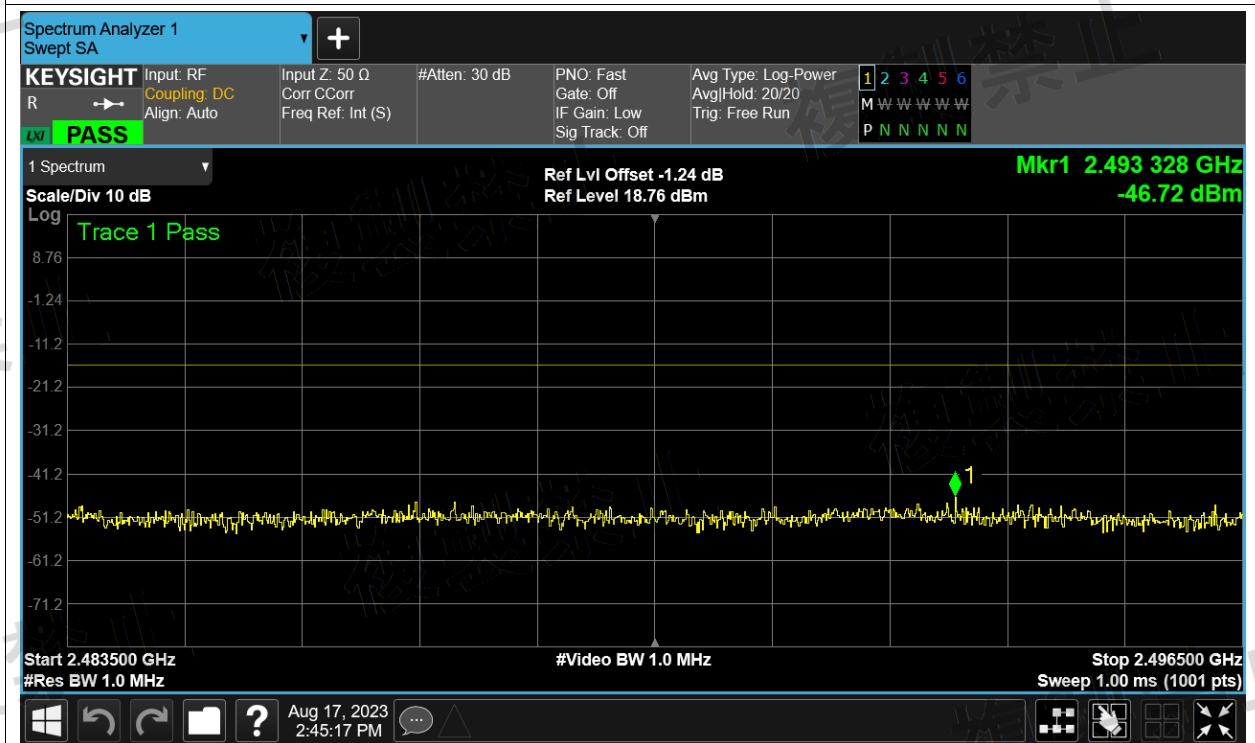
Tx. Spurious NVNT BLE 2402MHz Ant1 @ 1000MHz-2387MHz



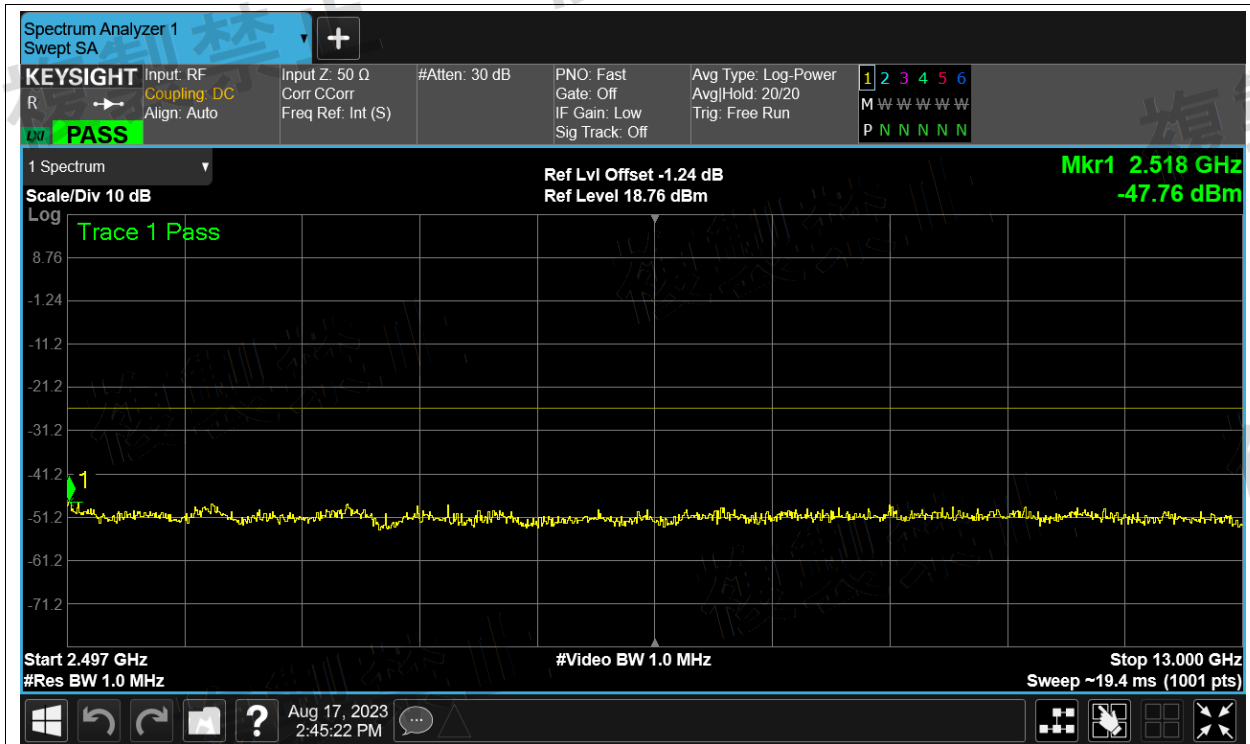
Tx. Spurious NVNT BLE 2402MHz Ant1 @ 2387MHz-2400MHz



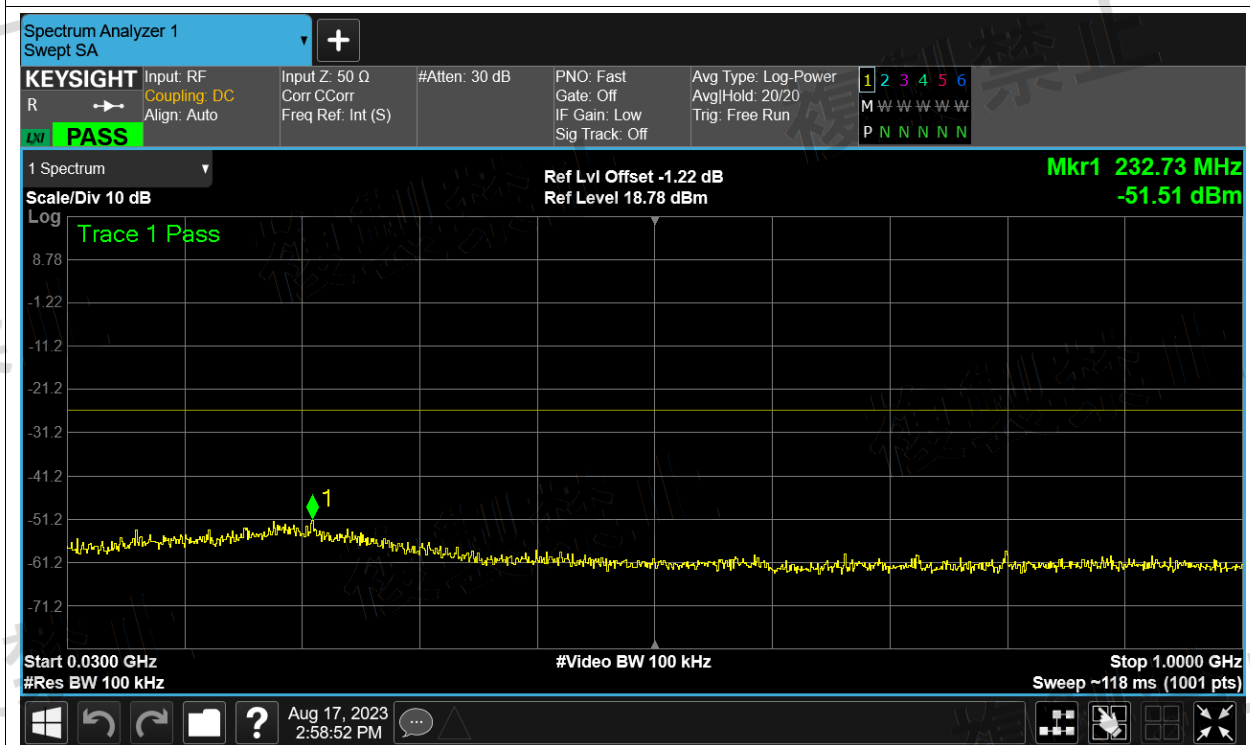
Tx. Spurious NVNT BLE 2402MHz Ant1 @ 2483.5MHz-2496.5MHz



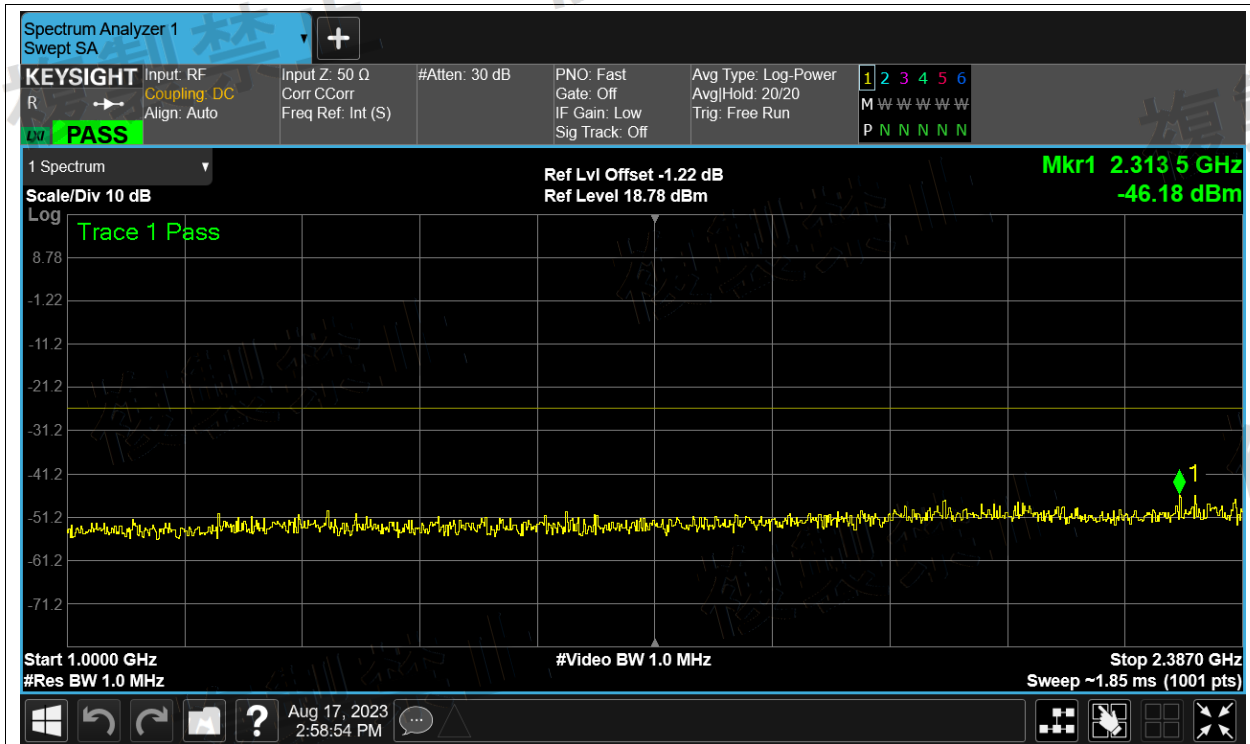
Tx. Spurious NVNT BLE 2402MHz Ant1 @ 2496.5MHz-13000MHz



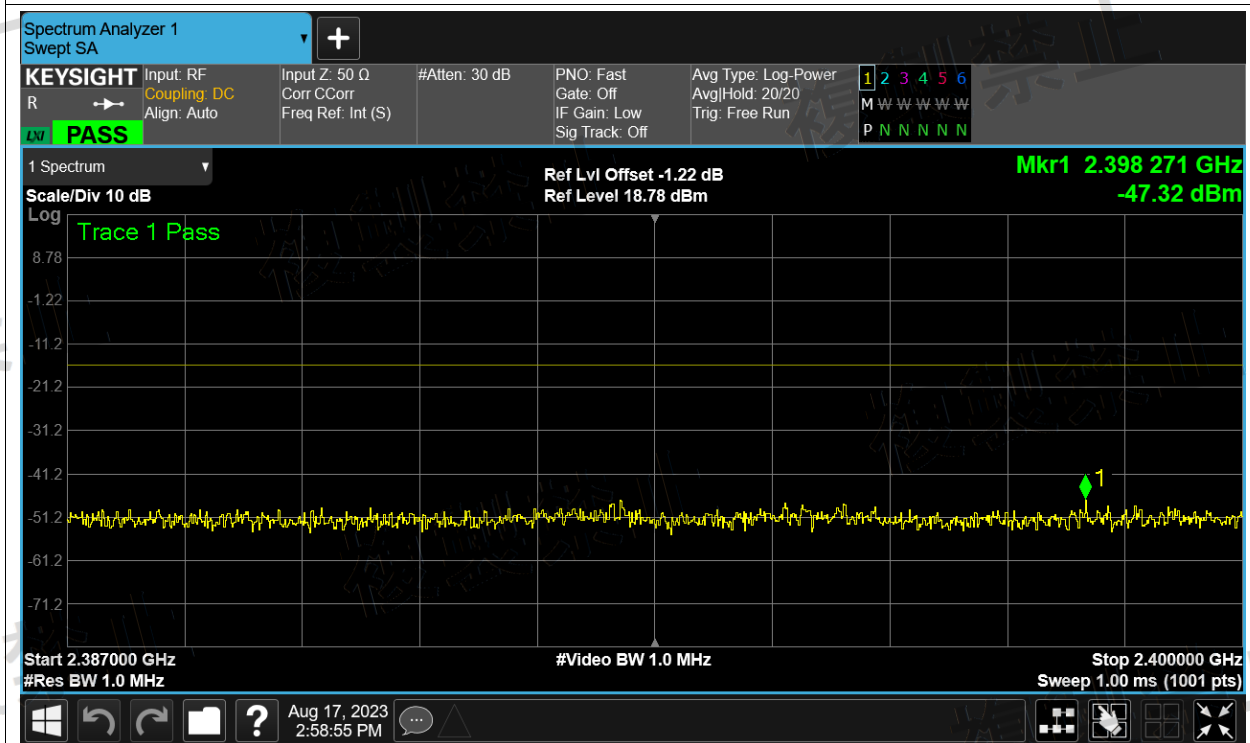
Tx. Spurious NVNT BLE 2442MHz Ant1 @ 30MHz-1000MHz



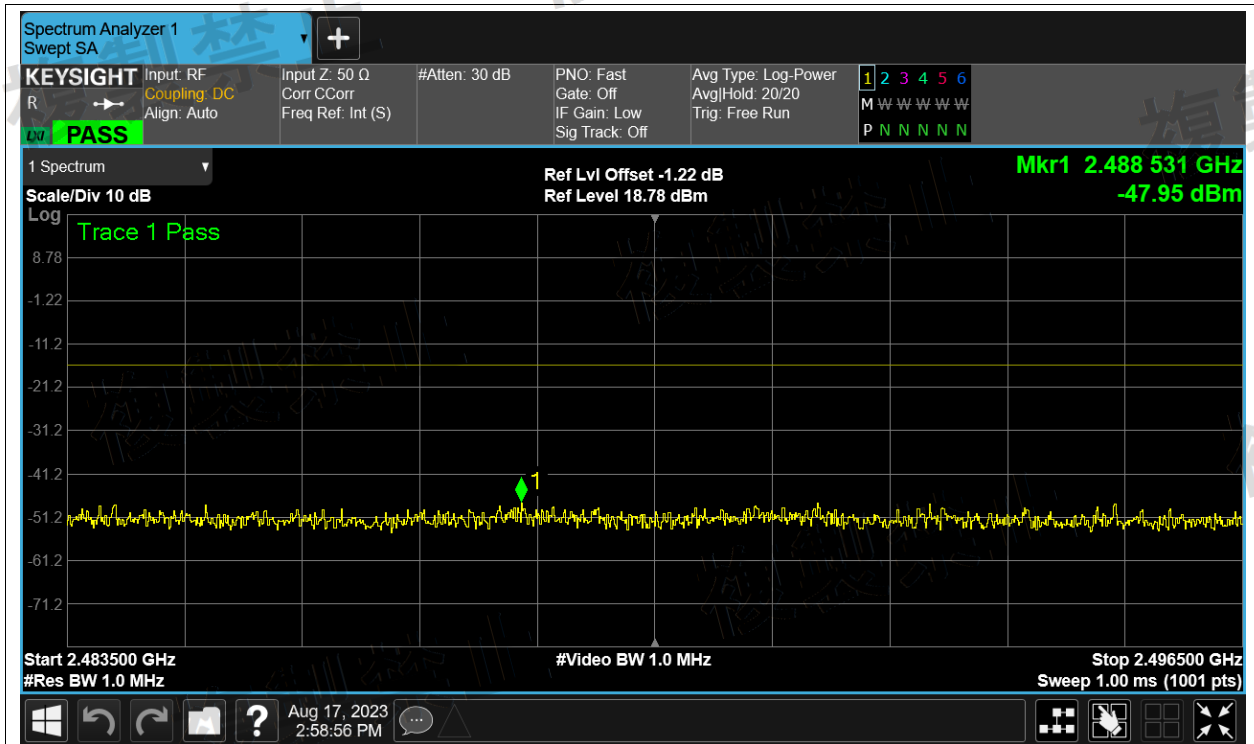
Tx. Spurious NVNT BLE 2442MHz Ant1 @ 1000MHz-2387MHz



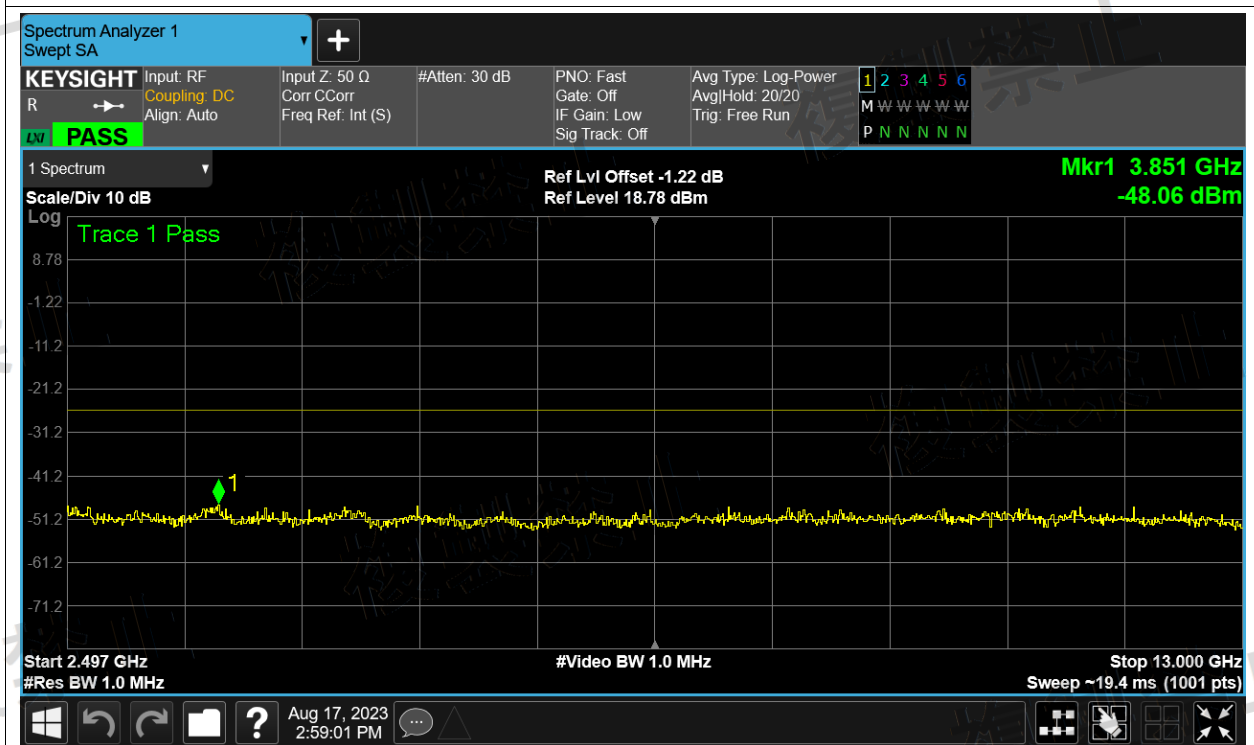
Tx. Spurious NVNT BLE 2442MHz Ant1 @ 2387MHz-2400MHz



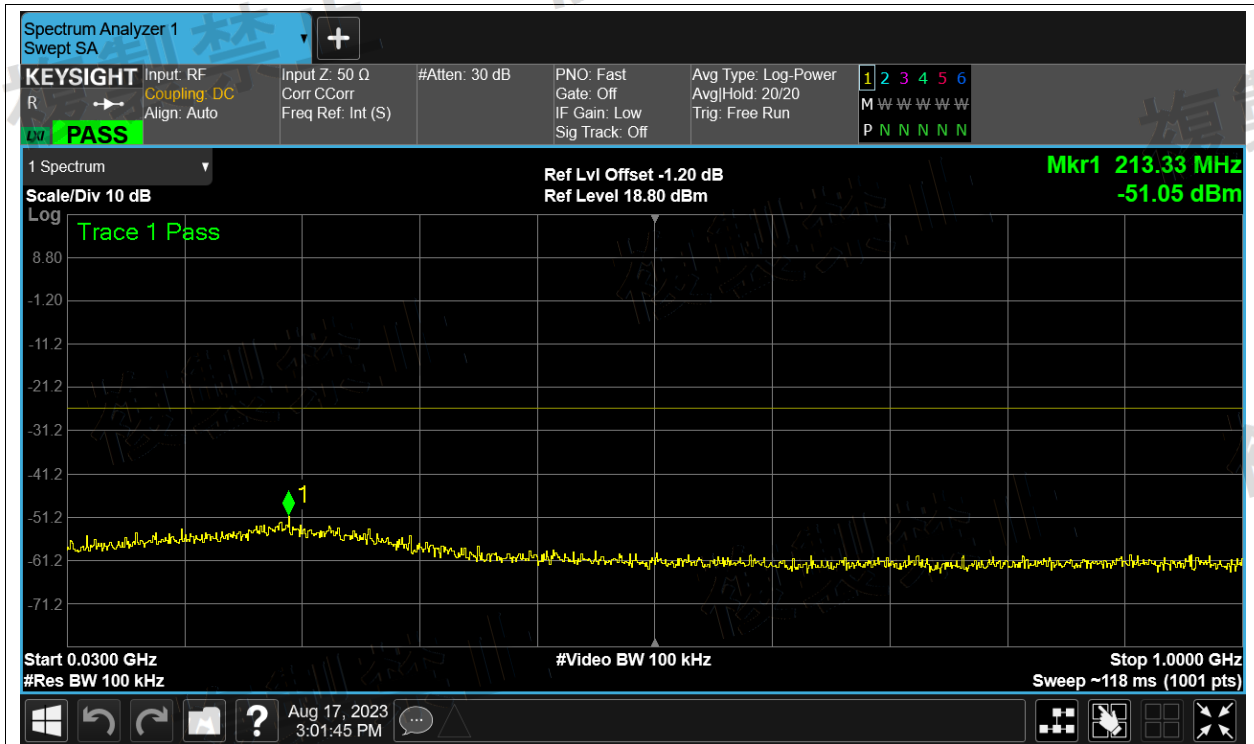
Tx. Spurious NVNT BLE 2442MHz Ant1 @ 2483.5MHz-2496.5MHz



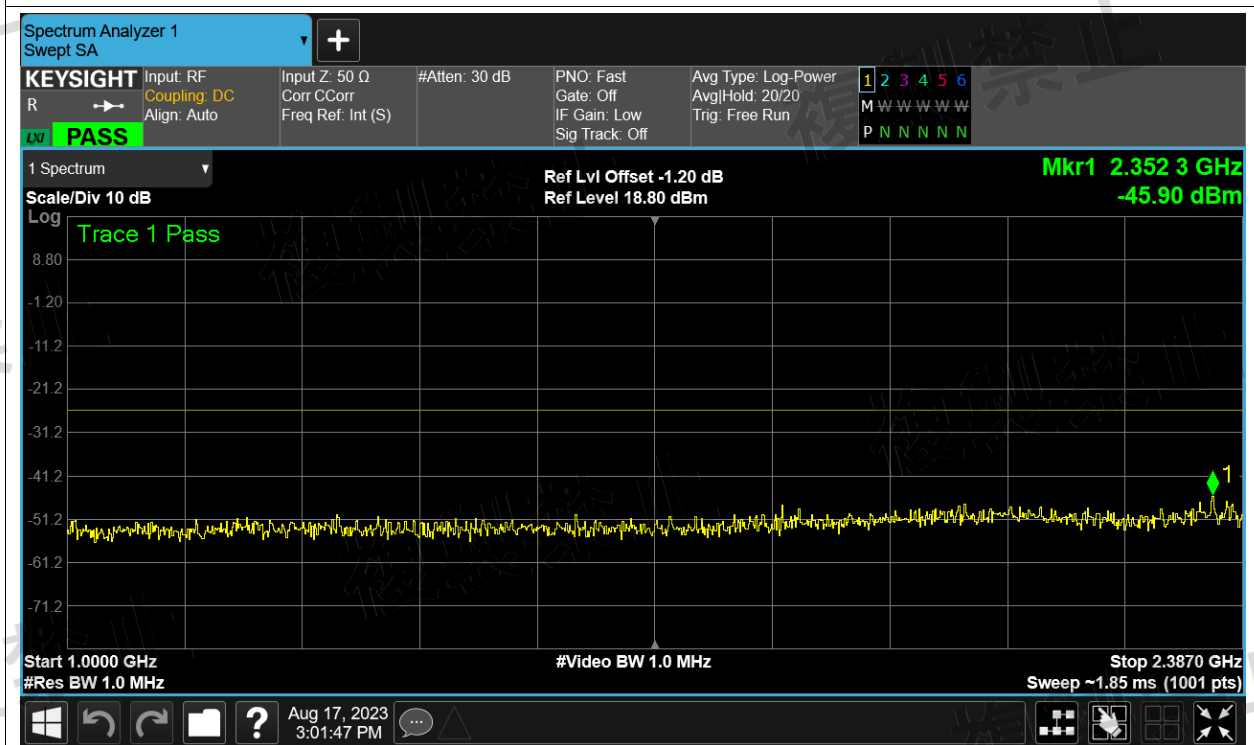
Tx. Spurious NVNT BLE 2442MHz Ant1 @ 2496.5MHz-13000MHz



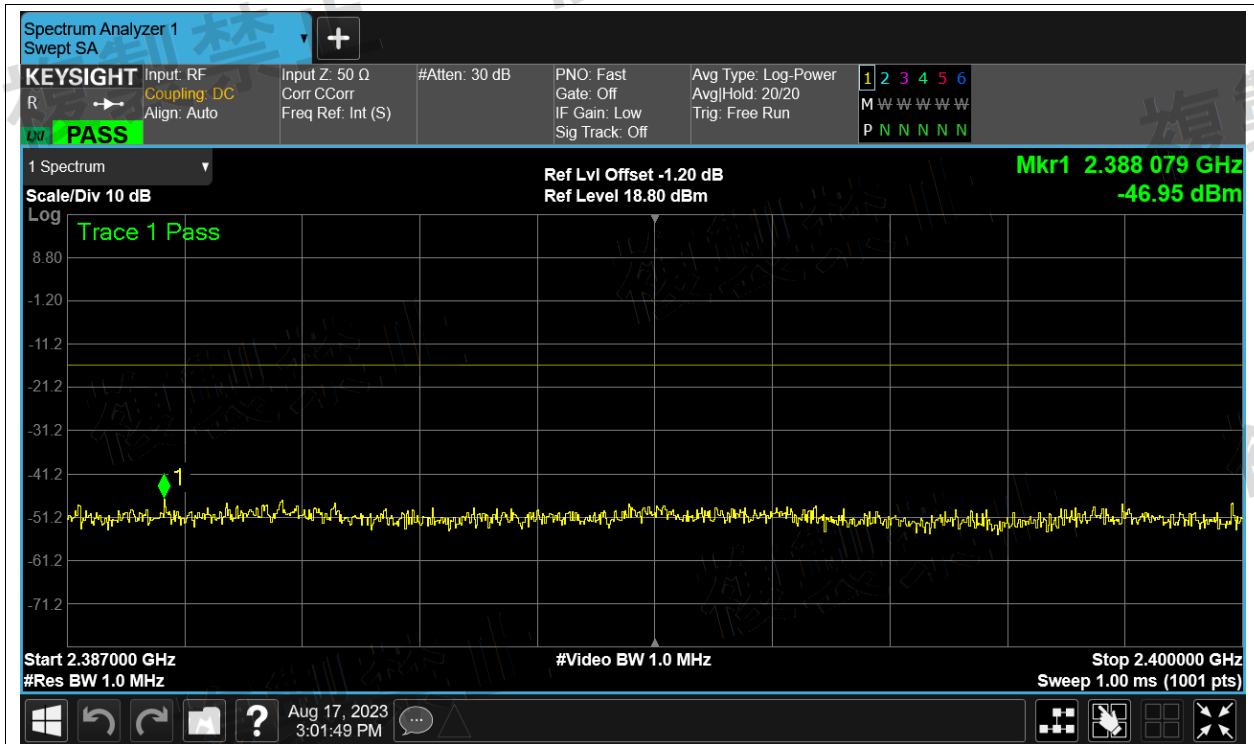
Tx. Spurious NVNT BLE 2480MHz Ant1 @ 30MHz-1000MHz



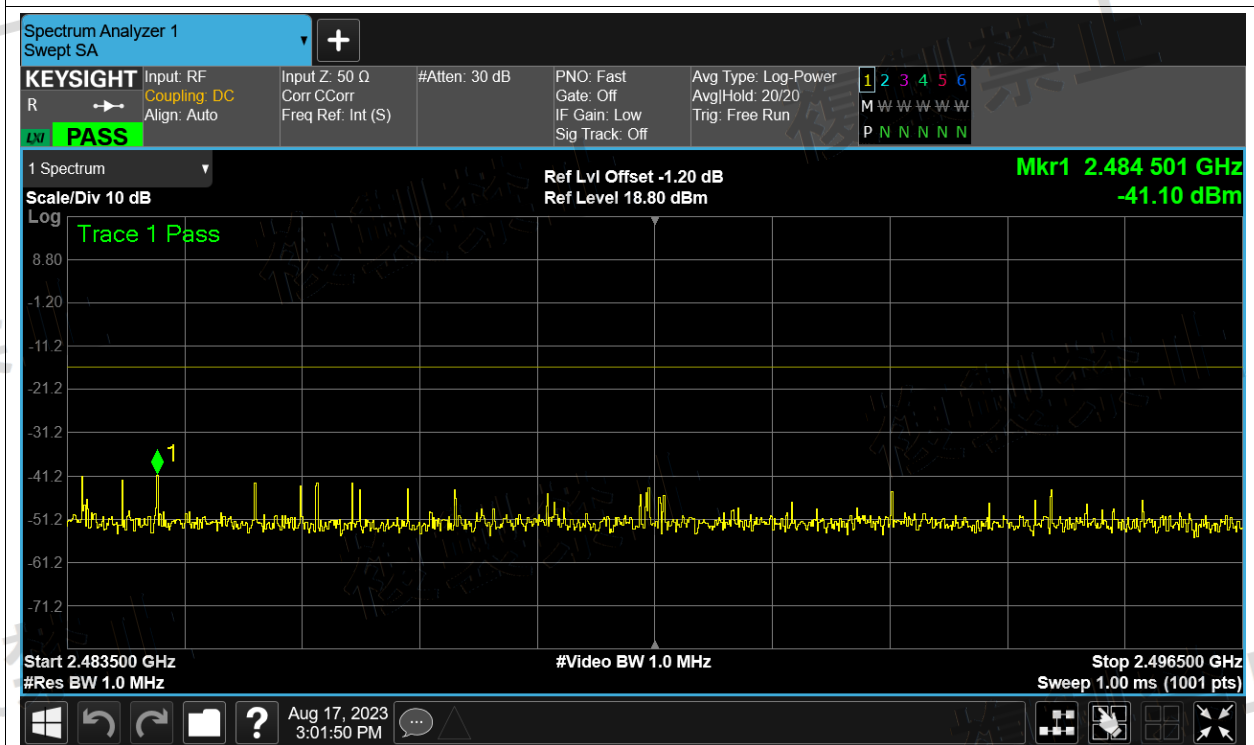
Tx. Spurious NVNT BLE 2480MHz Ant1 @ 1000MHz-2387MHz



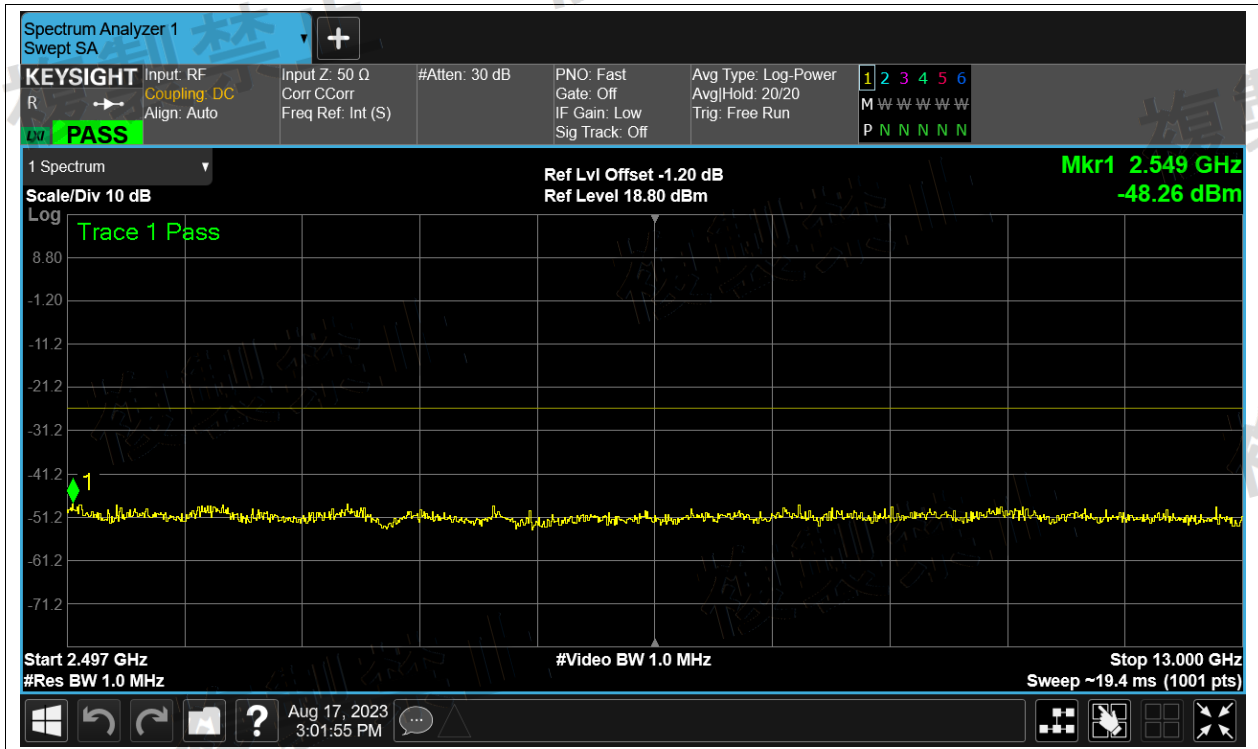
Tx. Spurious NVNT BLE 2480MHz Ant1 @ 2387MHz-2400MHz



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



Tx. Spurious NVNT BLE 2480MHz Ant1 @ 2496.5MHz-13000MHz

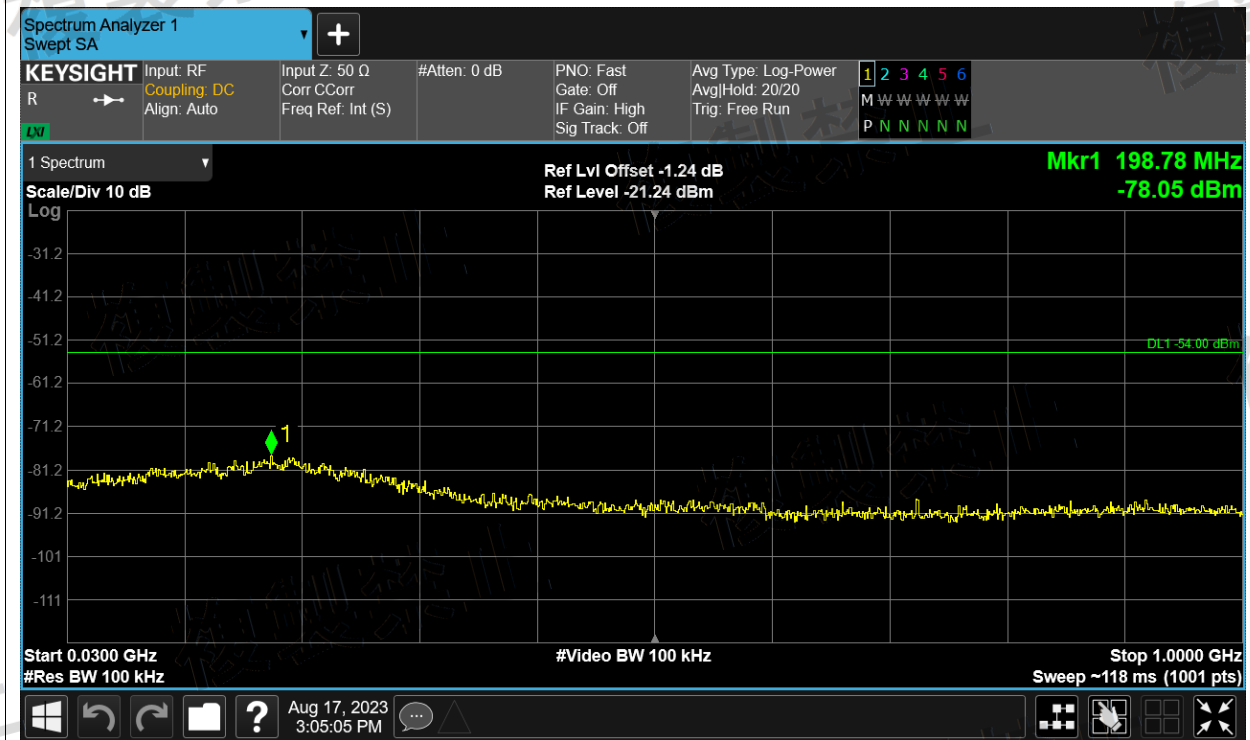


Rx Spurious Emission

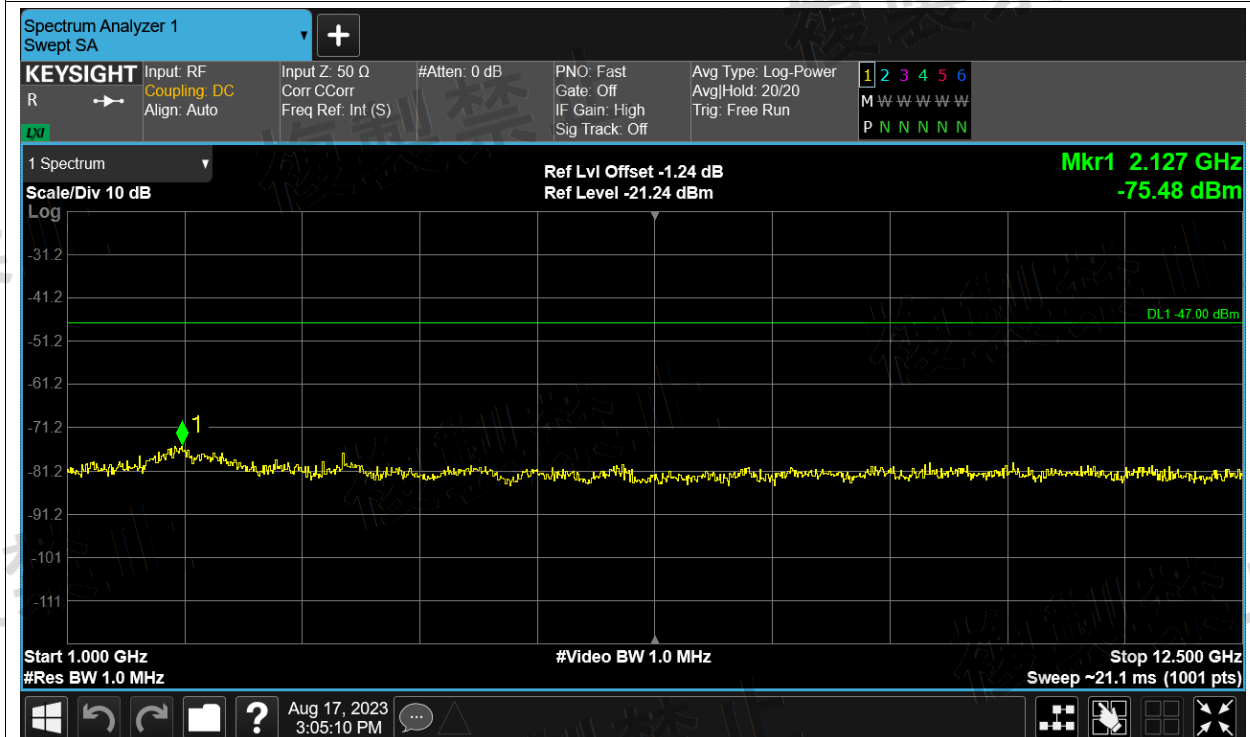
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	30-1000	198.78	-78.048	-54	Pass
NVNT	BLE	2402	Ant1	1000-12500	2127	-75.484	-47	Pass
NVNT	BLE	2442	Ant1	30-1000	218.18	-78.051	-54	Pass
NVNT	BLE	2442	Ant1	1000-12500	1989	-74.291	-47	Pass
NVNT	BLE	2480	Ant1	30-1000	217.21	-77.679	-54	Pass
NVNT	BLE	2480	Ant1	1000-12500	2161.5	-75.354	-47	Pass

Test Graphs

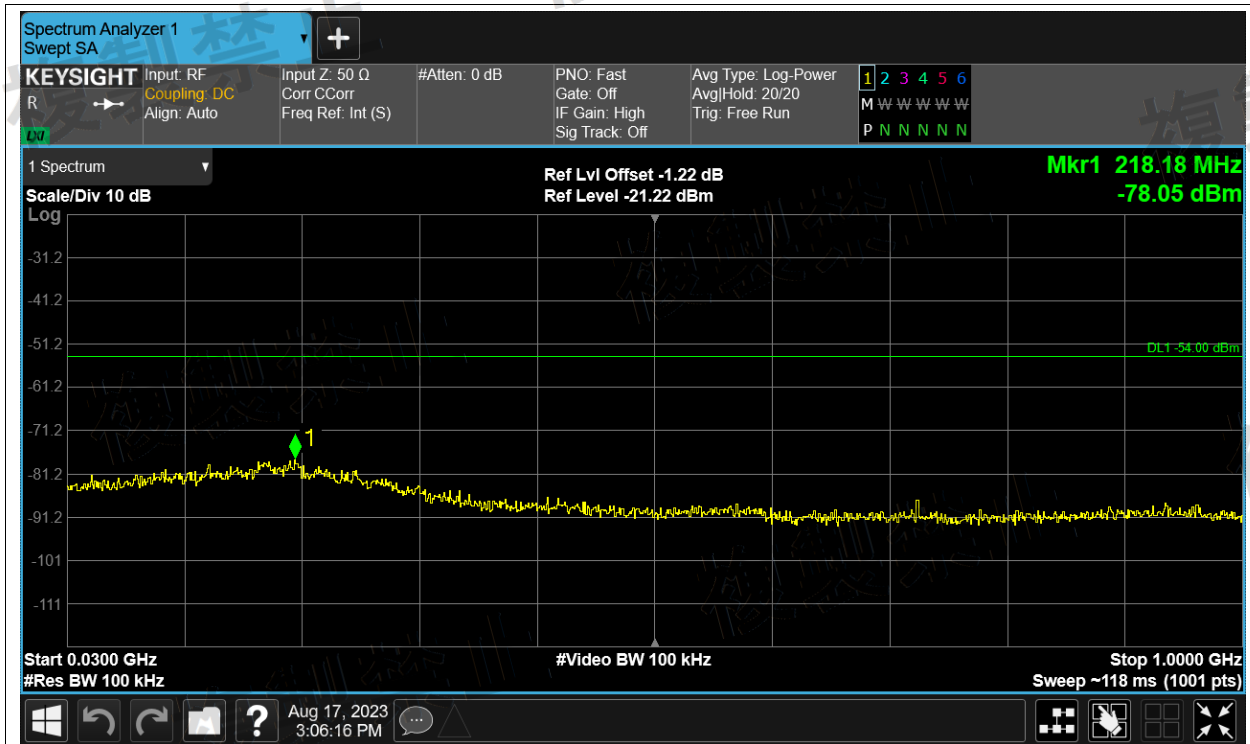
Rx. Spurious NVNT BLE 2402MHz Ant1 @ 30MHz-1000MHz



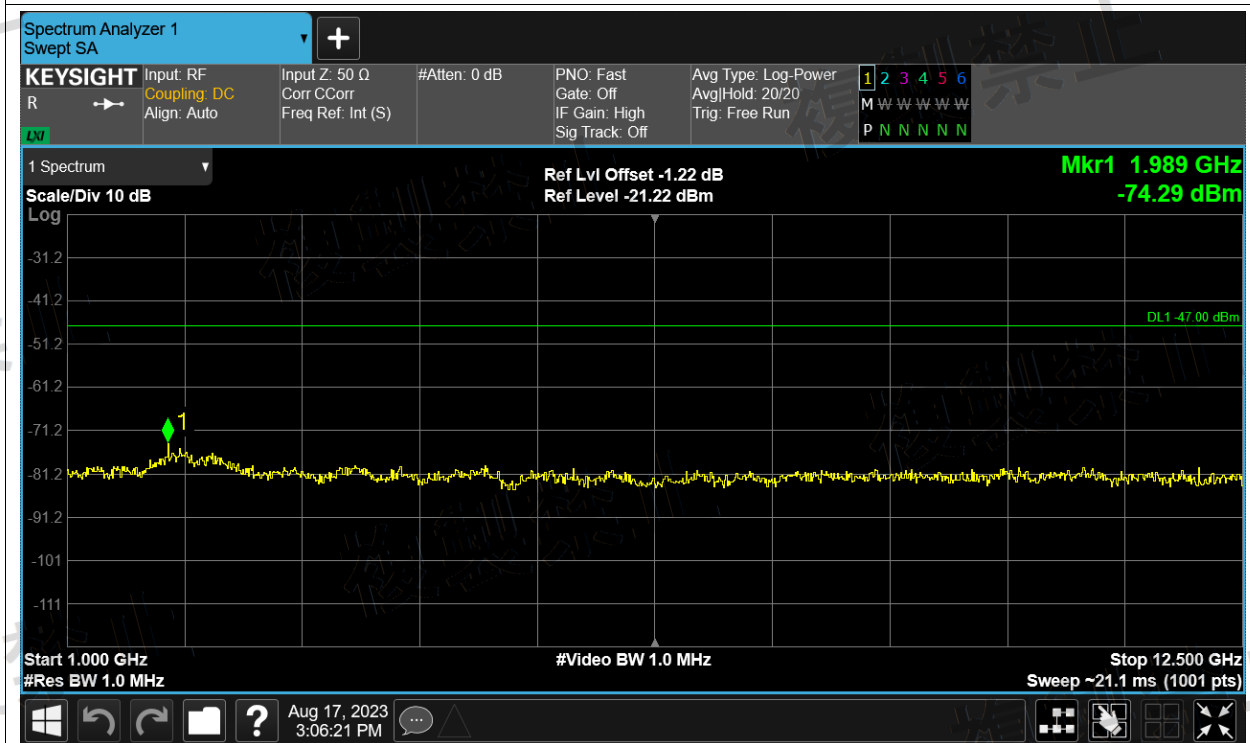
Rx. Spurious NVNT BLE 2402MHz Ant1 @ 1000MHz-12500MHz



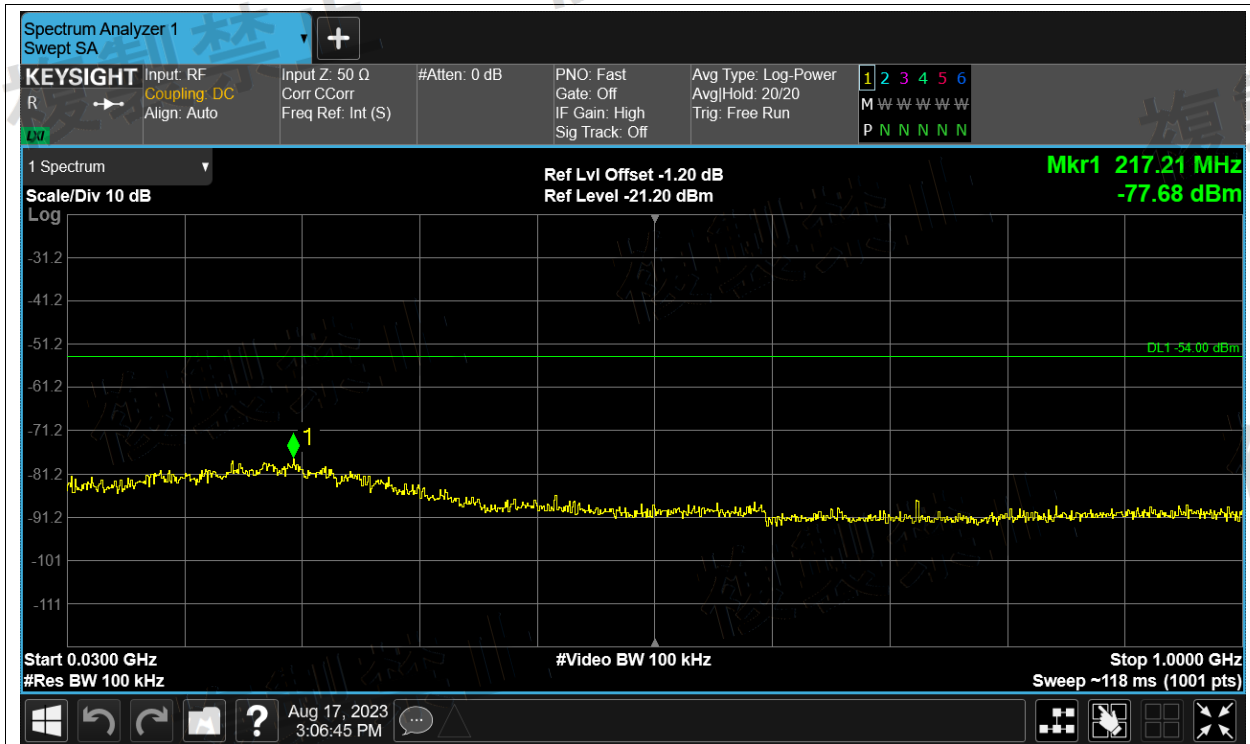
Rx. Spurious NVNT BLE 2442MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT BLE 2442MHz Ant1 @ 1000MHz-12500MHz



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



Rx. Spurious NVNT BLE 2480MHz Ant1 @ 1000MHz-12500MHz

