

Table of Contents

1.Duty Cycle	2
2.Maximum Peak Conducted Output Power	6
3.-6dB Bandwidth	10
4.Maximum Power Spectral Density Level	14
5.Band Edge	18
6.Conducted RF Spurious Emission	23

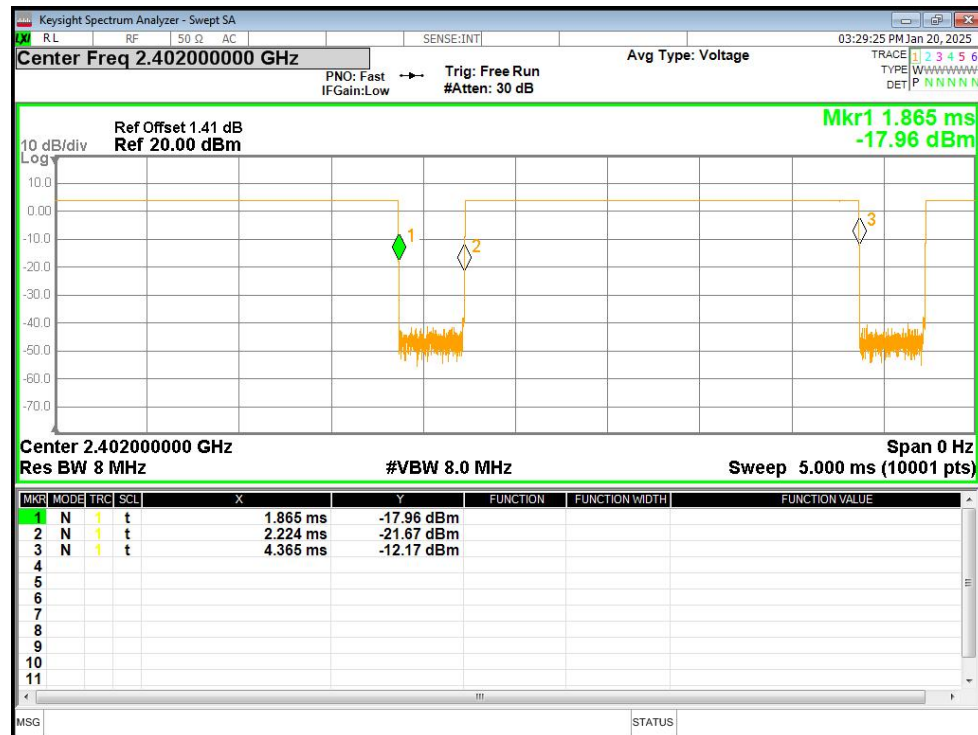
FCC_BLE(Part15.247) Test Data

1.Duty Cycle

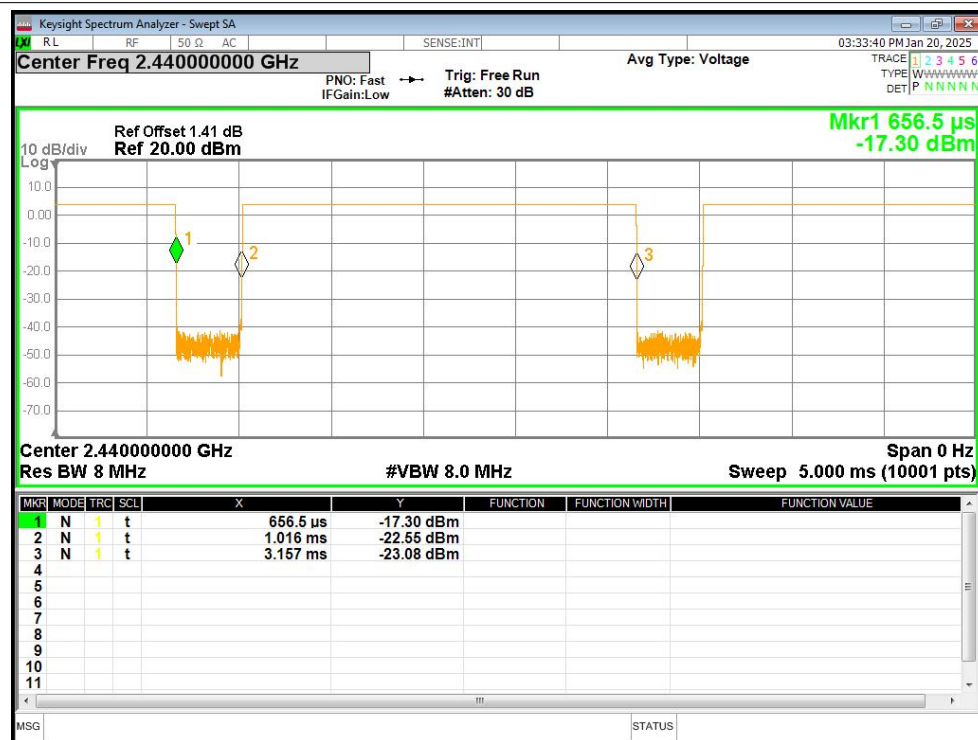
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
BLE 1M	2402	85.64	0.67	0.47
BLE 1M	2440	85.64	0.67	0.47
BLE 1M	2480	85.64	0.67	0.47
BLE 2M	2402	57.85	2.38	0.92
BLE 2M	2440	57.88	2.37	0.92
BLE 2M	2480	57.87	2.38	0.92

Test Graphs

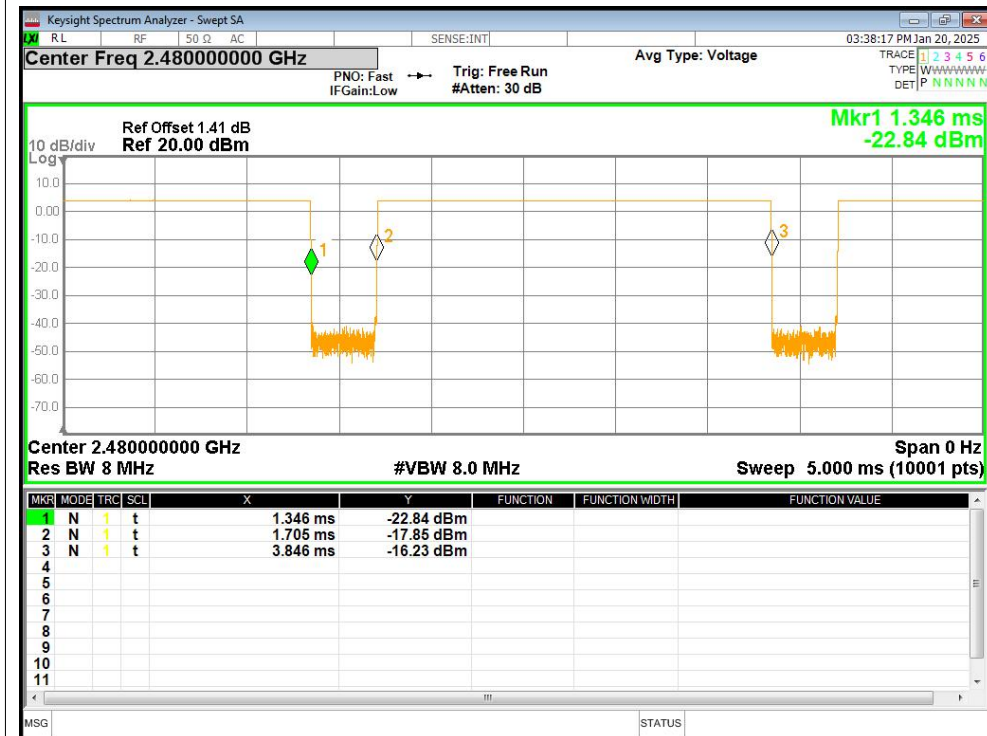
Duty Cycle NVNT BLE 1M 2402MHz Ant1



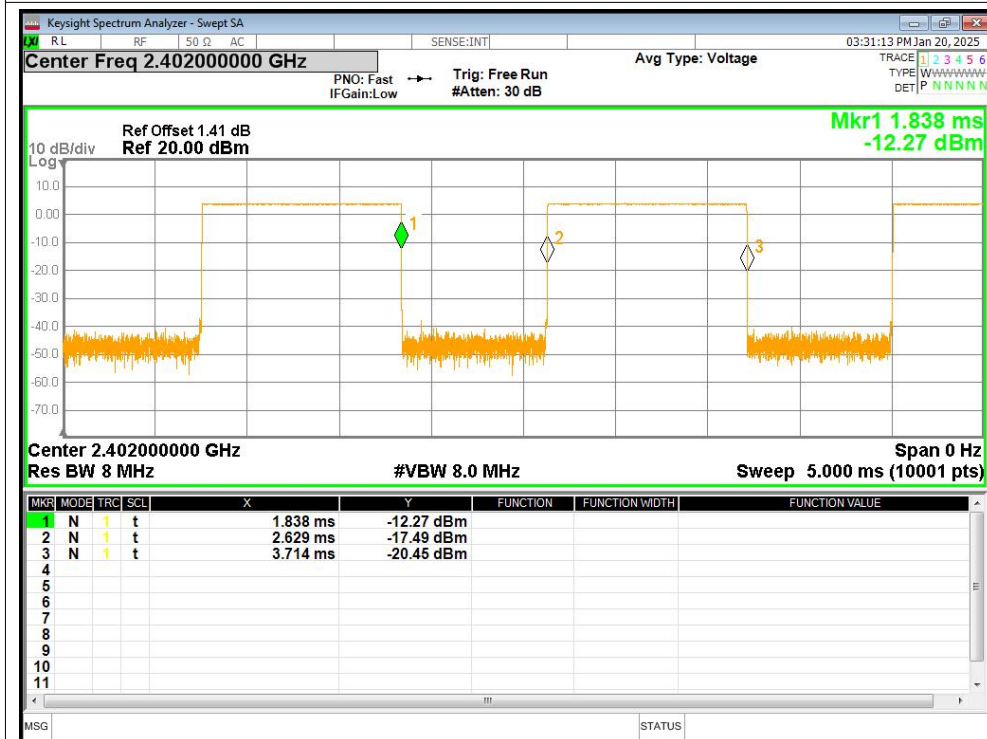
Duty Cycle NVNT BLE 1M 2440MHz Ant1



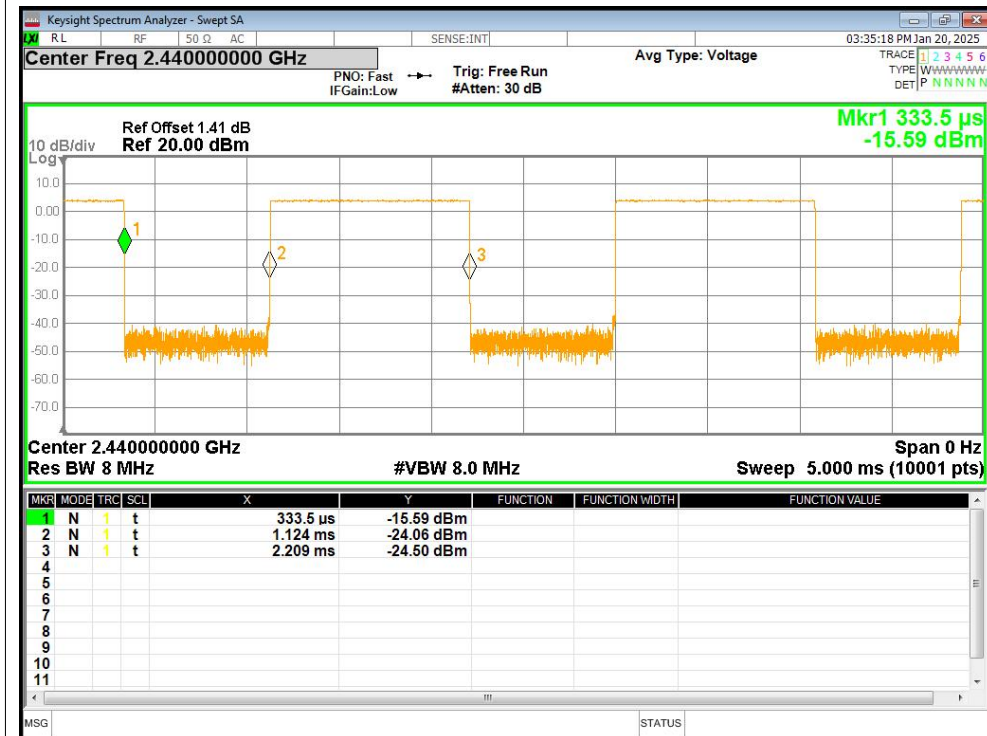
Duty Cycle NVNT BLE 1M 2480MHz Ant1



Duty Cycle NVNT BLE 2M 2402MHz Ant1



Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1

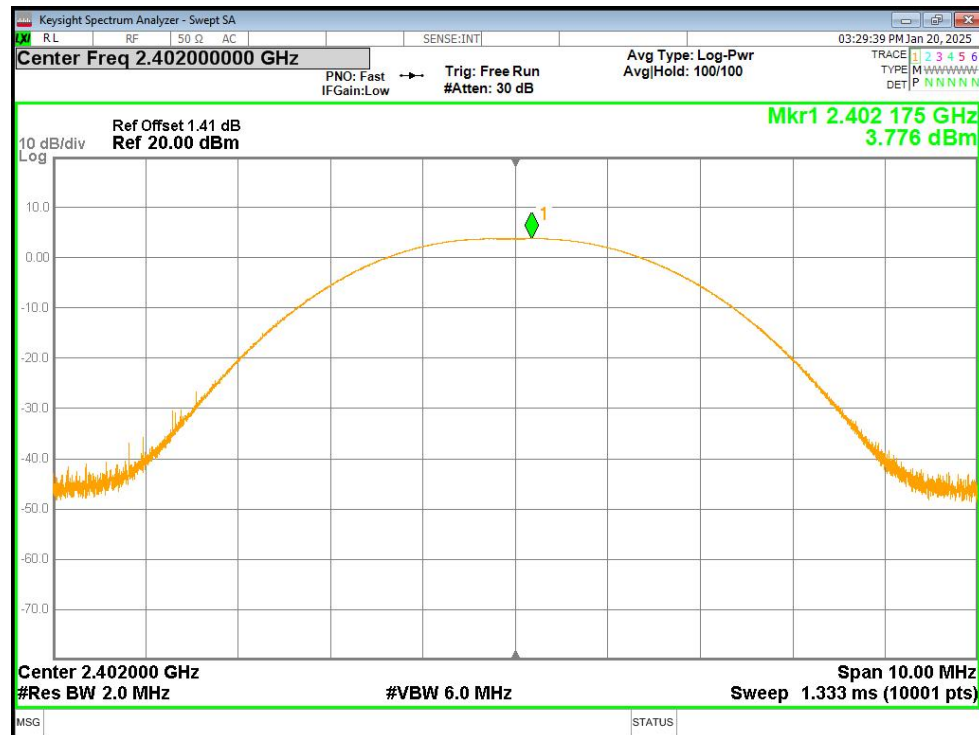


2.Maximum Peak Conducted Output Power

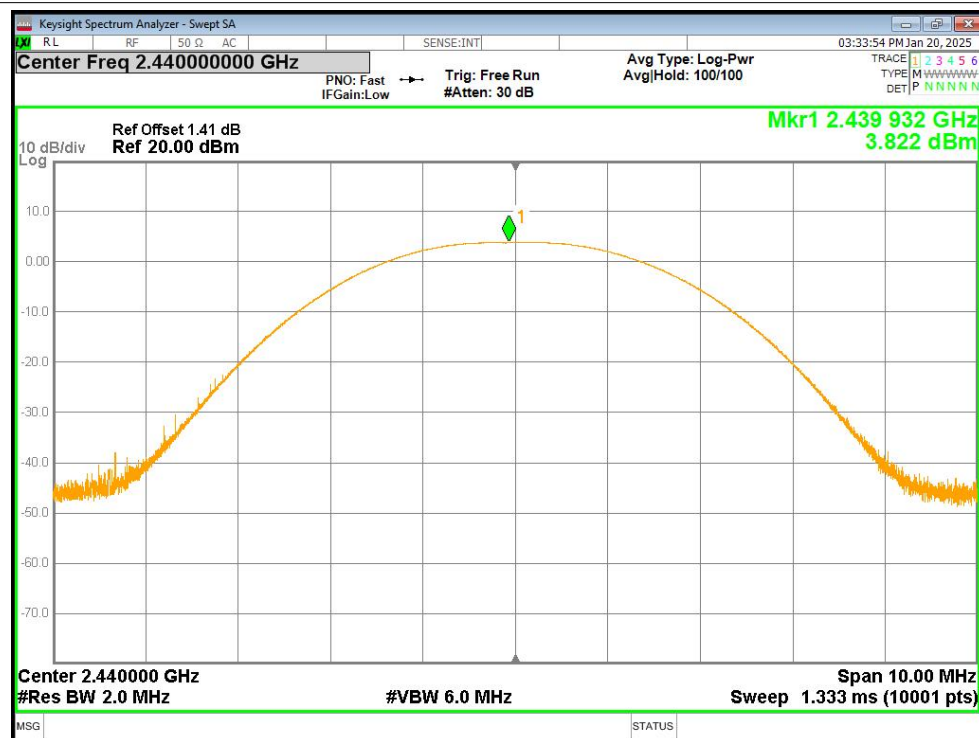
Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	3.78	30	Pass
BLE 1M	2440	3.82	30	Pass
BLE 1M	2480	3.83	30	Pass
BLE 2M	2402	3.8	30	Pass
BLE 2M	2440	3.82	30	Pass
BLE 2M	2480	3.84	30	Pass

Test Graphs

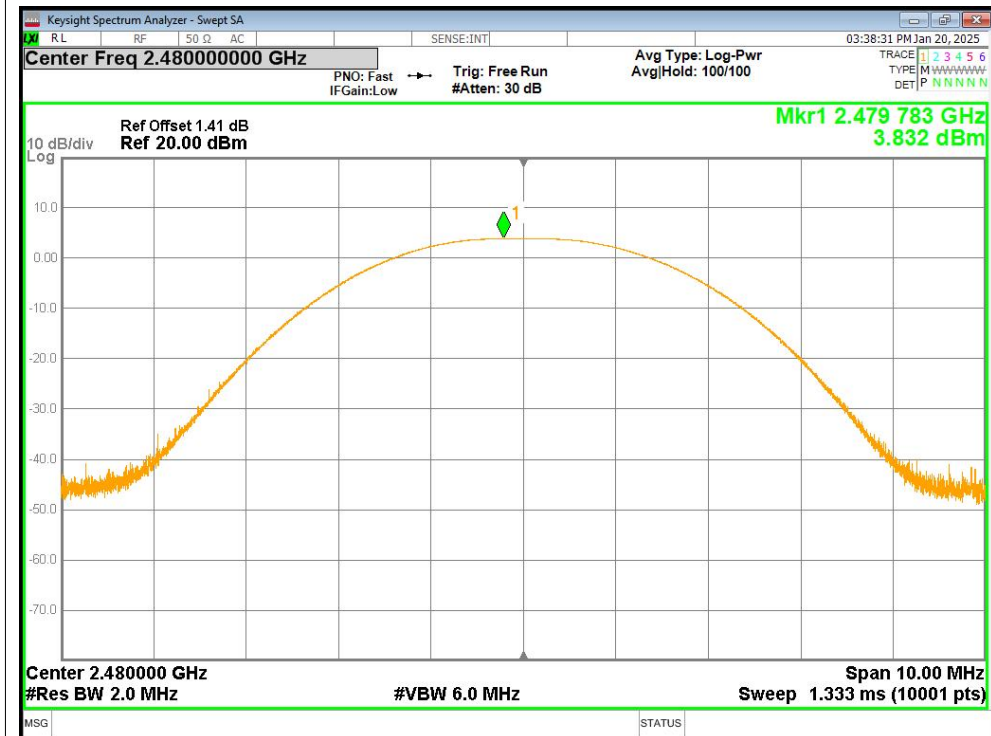
Peak Power NVNT BLE 1M 2402MHz Ant1



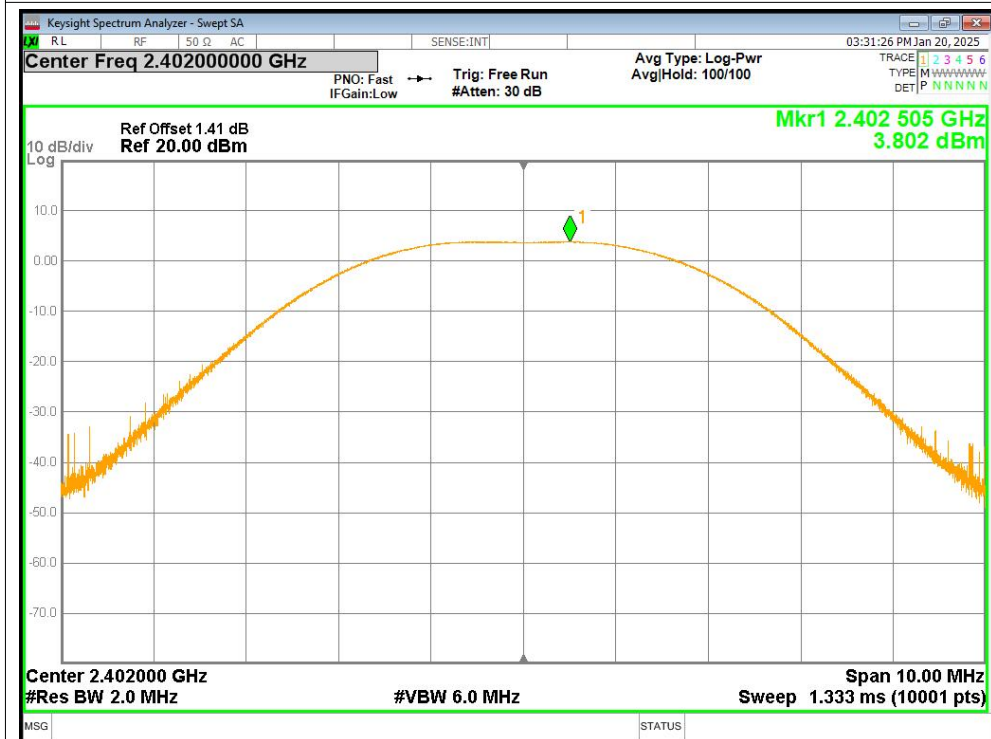
Peak Power NVNT BLE 1M 2440MHz Ant1



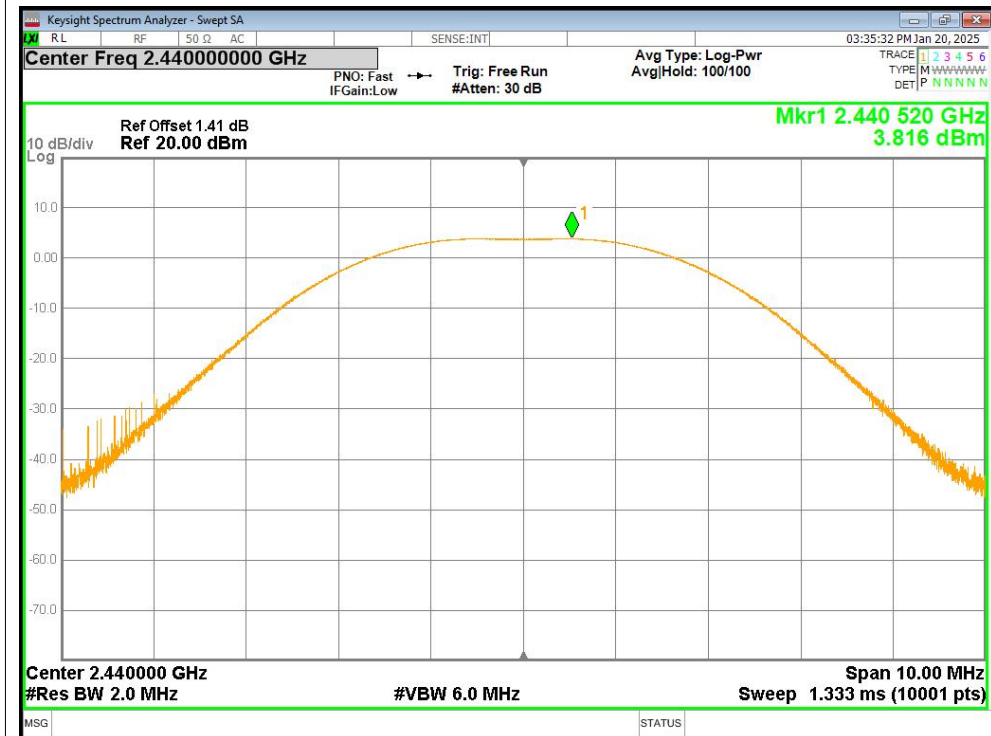
Peak Power NVNT BLE 1M 2480MHz Ant1



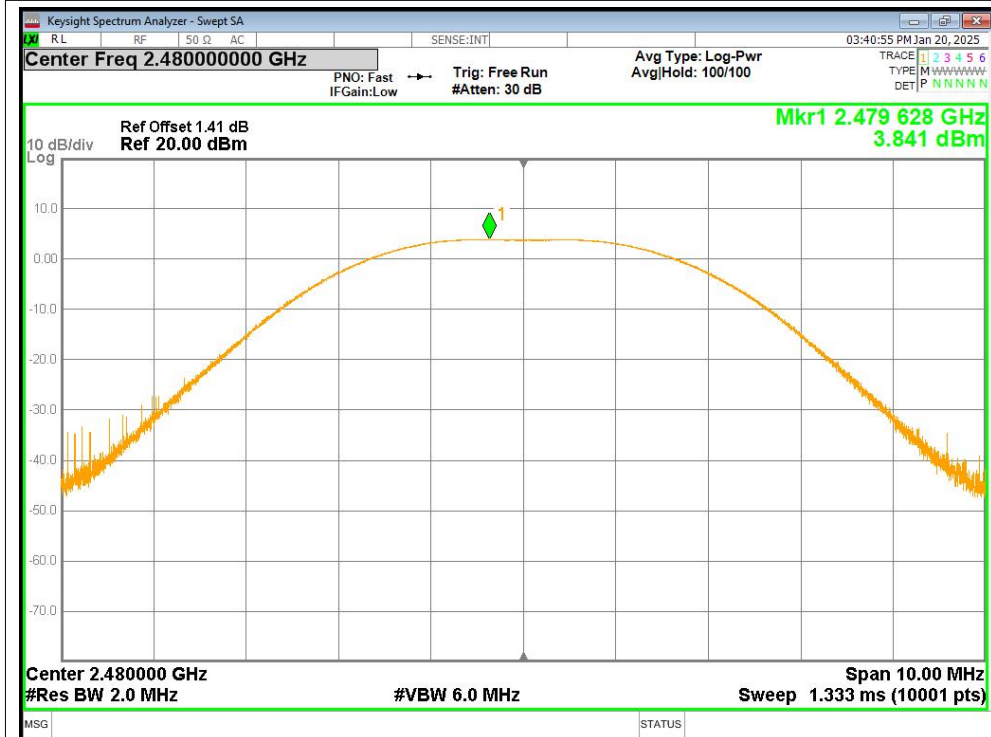
Peak Power NVNT BLE 2M 2402MHz Ant1



Peak Power NVNT BLE 2M 2440MHz Ant1



Peak Power NVNT BLE 2M 2480MHz Ant1



3.-6dB Bandwidth

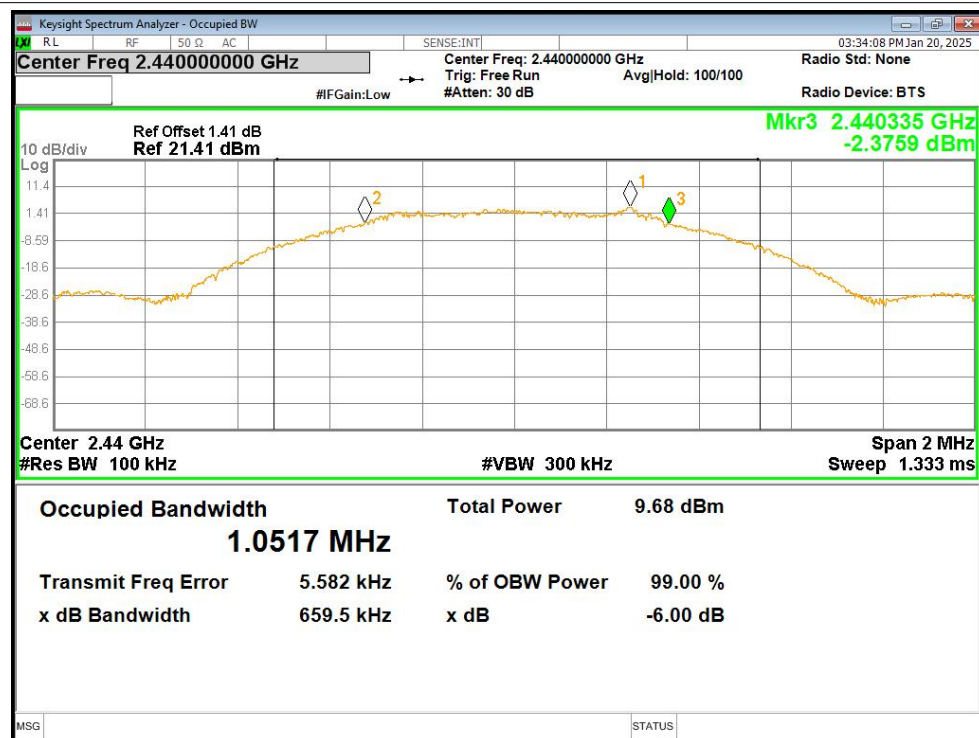
Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.68	0.5	Pass
BLE 1M	2440	0.659	0.5	Pass
BLE 1M	2480	0.659	0.5	Pass
BLE 2M	2402	1.133	0.5	Pass
BLE 2M	2440	1.113	0.5	Pass
BLE 2M	2480	1.236	0.5	Pass

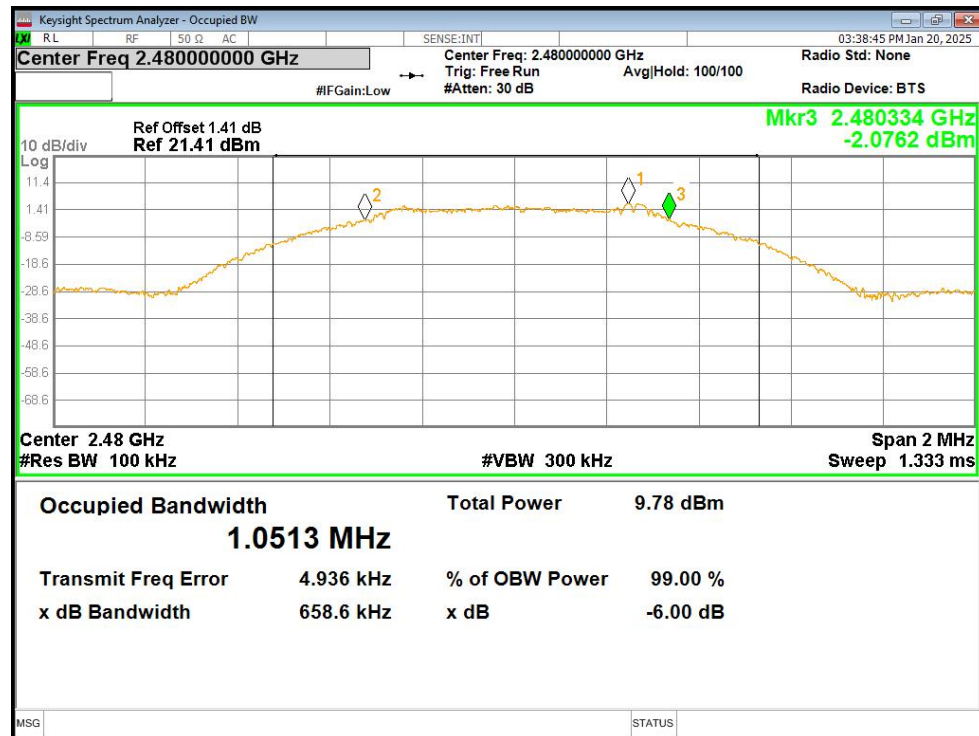
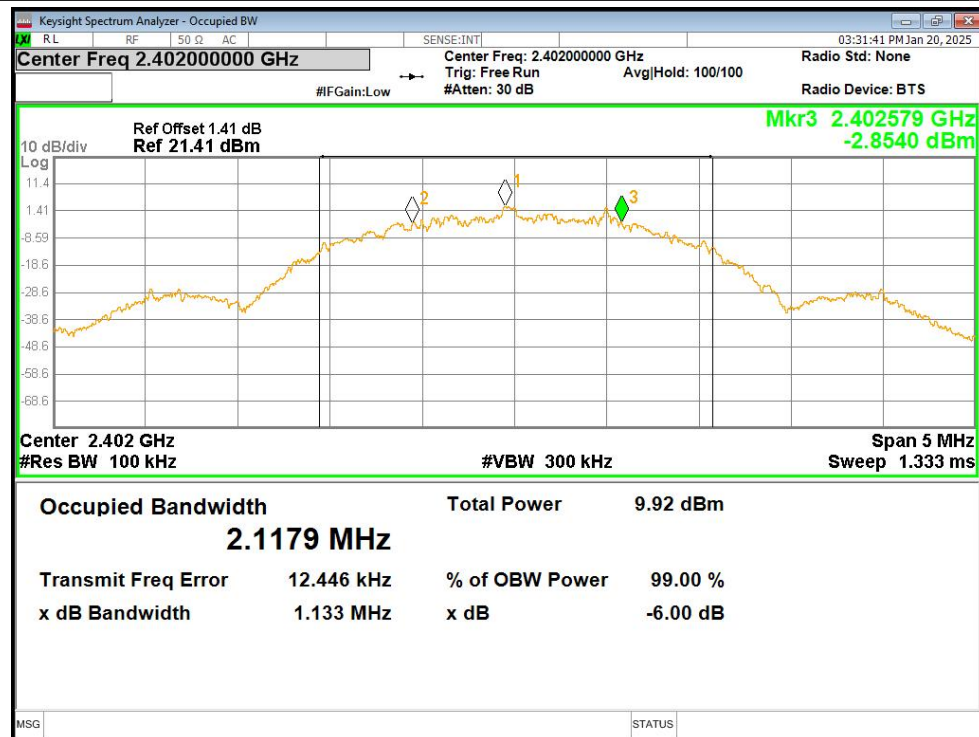
Test Graphs

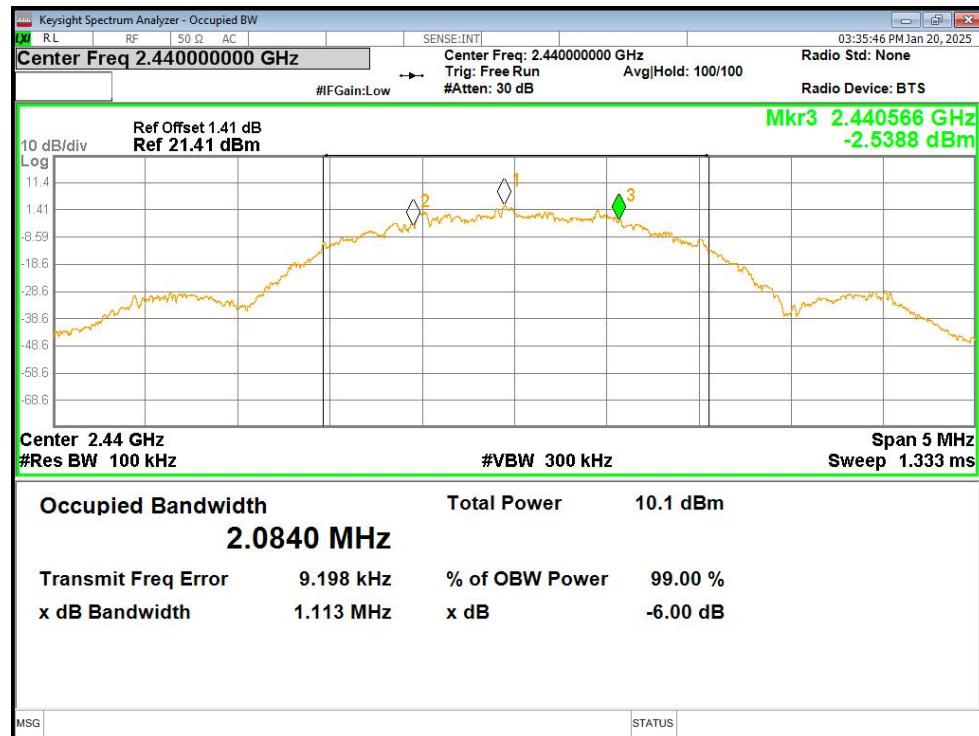
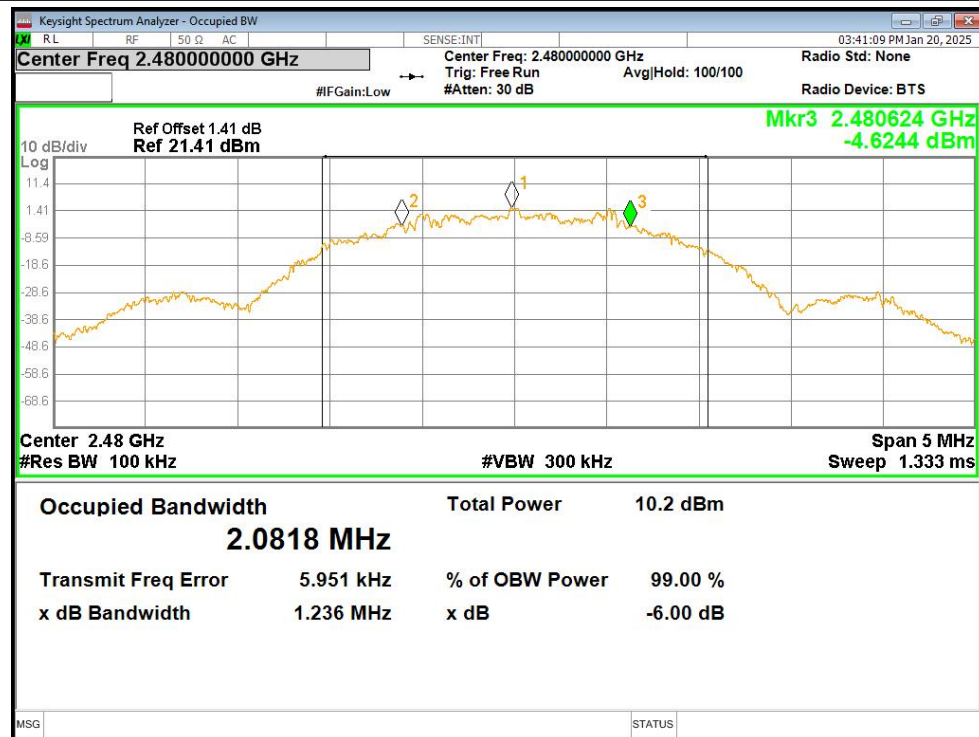
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1**-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1**

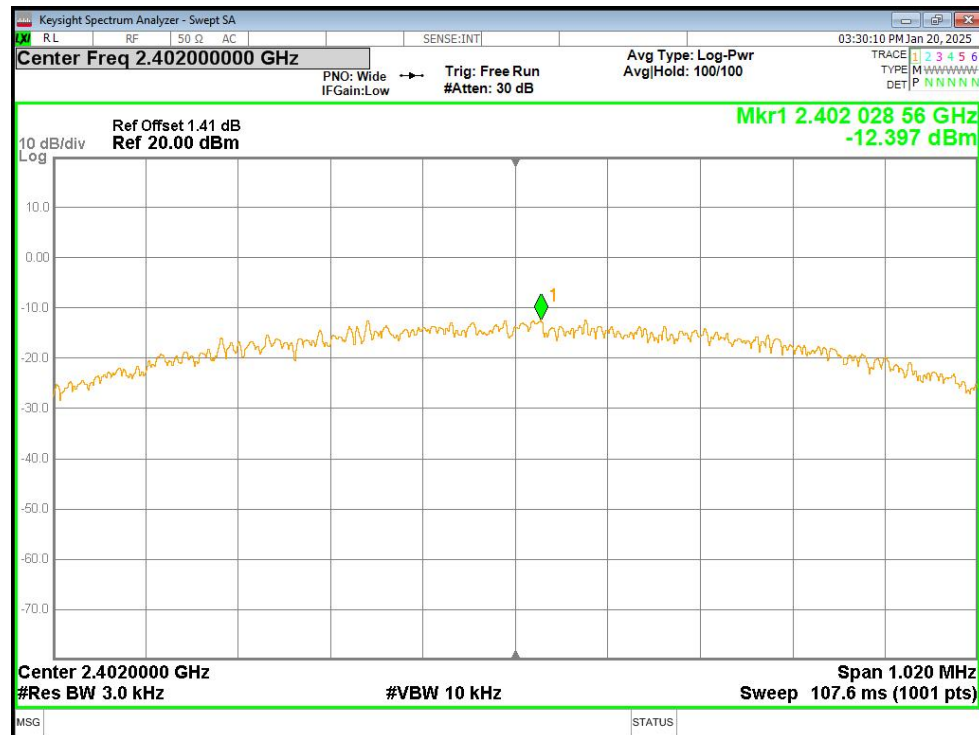
-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1**-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1**

4.Maximum Power Spectral Density Level

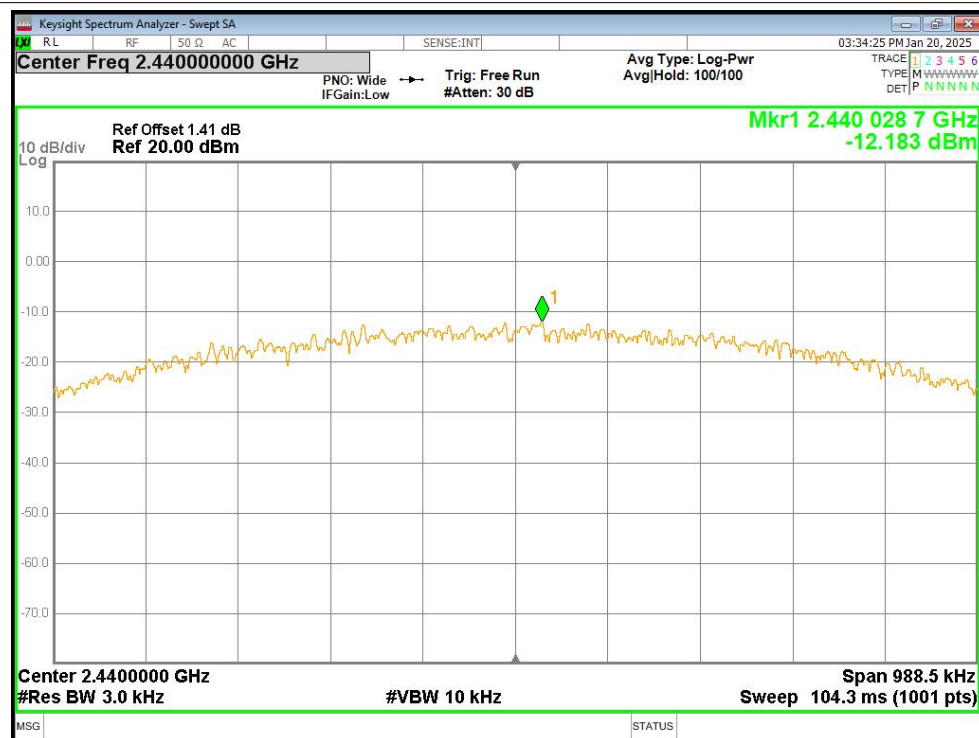
Mode	Frequency (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-12.4	8	Pass
BLE 1M	2440	-12.18	8	Pass
BLE 1M	2480	-11.97	8	Pass
BLE 2M	2402	-13.52	8	Pass
BLE 2M	2440	-13.55	8	Pass
BLE 2M	2480	-13.23	8	Pass

Test Graphs

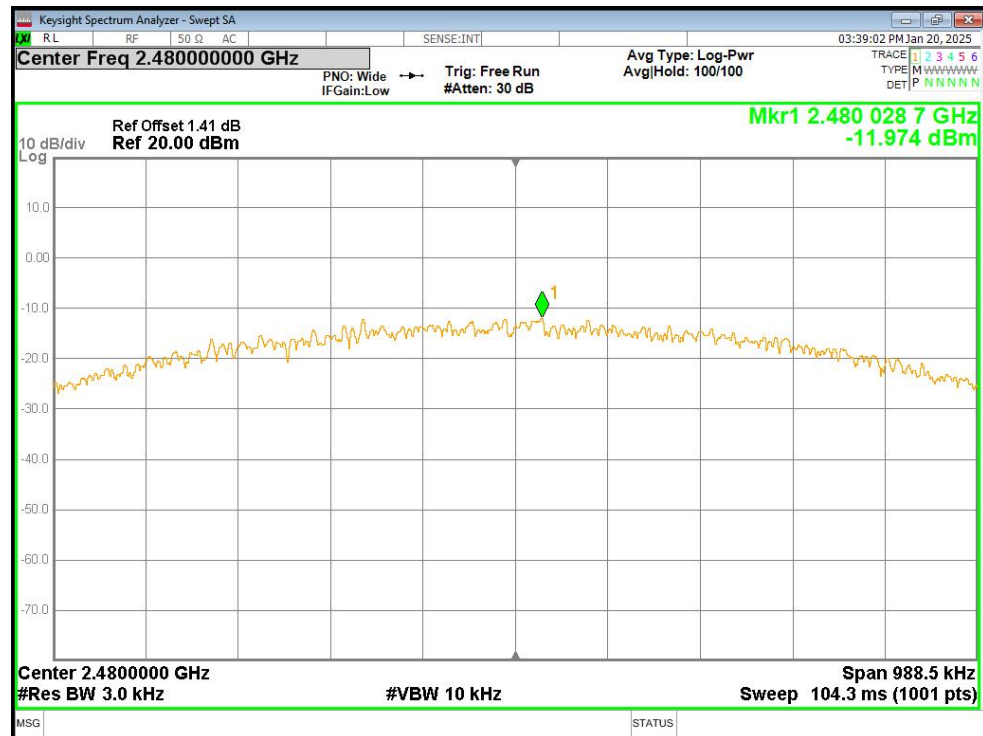
PSD NVNT BLE 1M 2402MHz Ant1



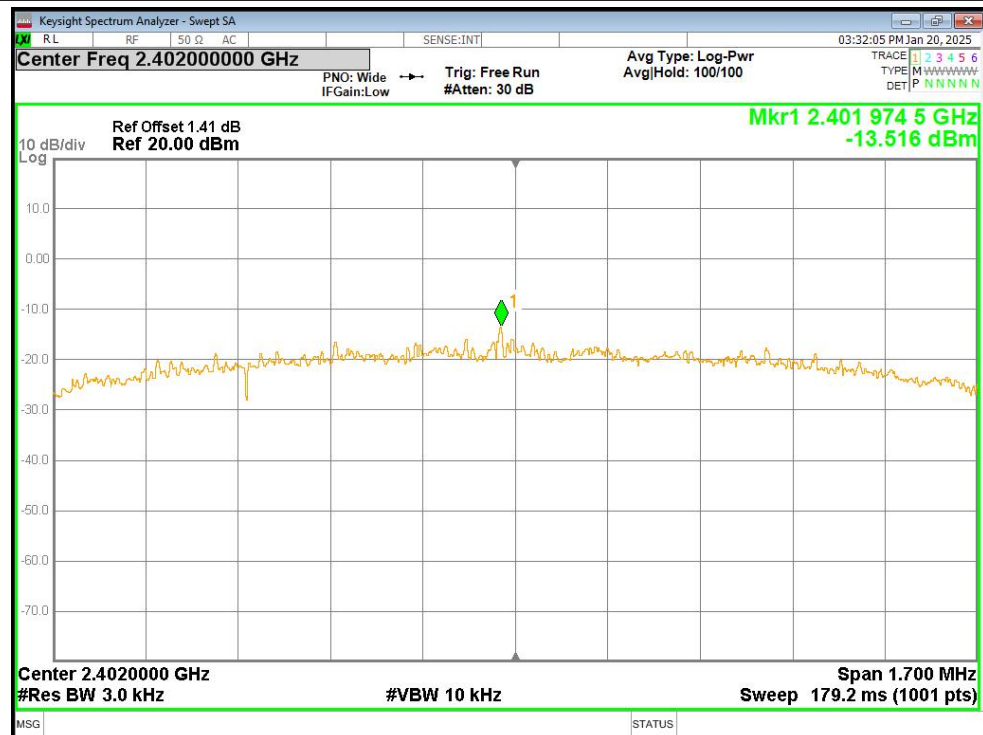
PSD NVNT BLE 1M 2440MHz Ant1



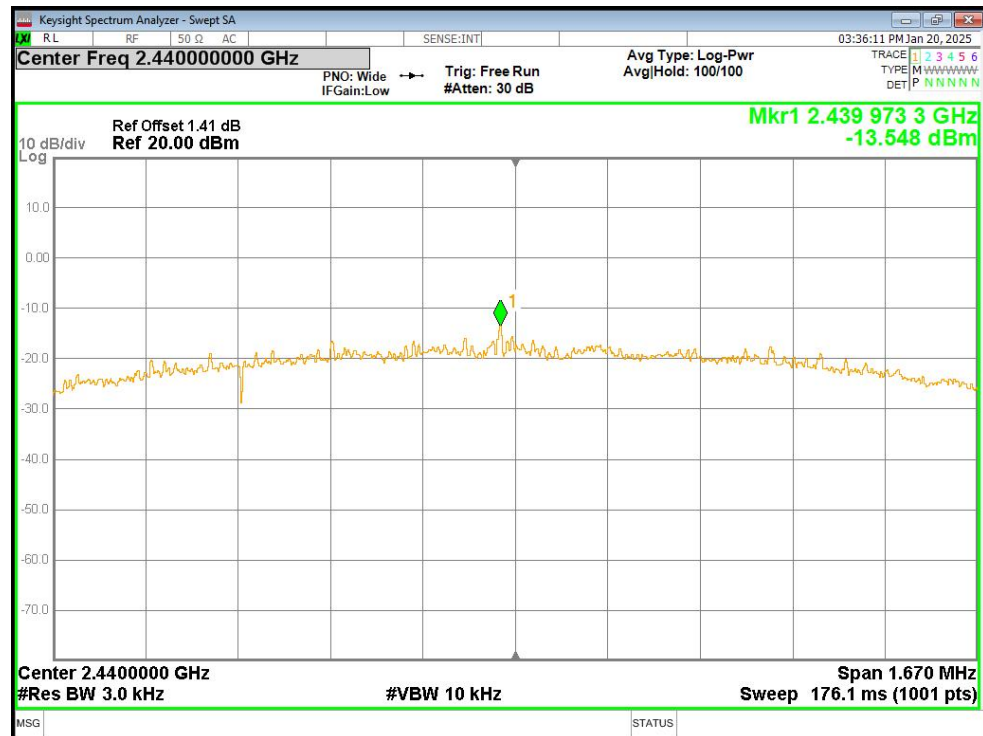
PSD NVNT BLE 1M 2480MHz Ant1



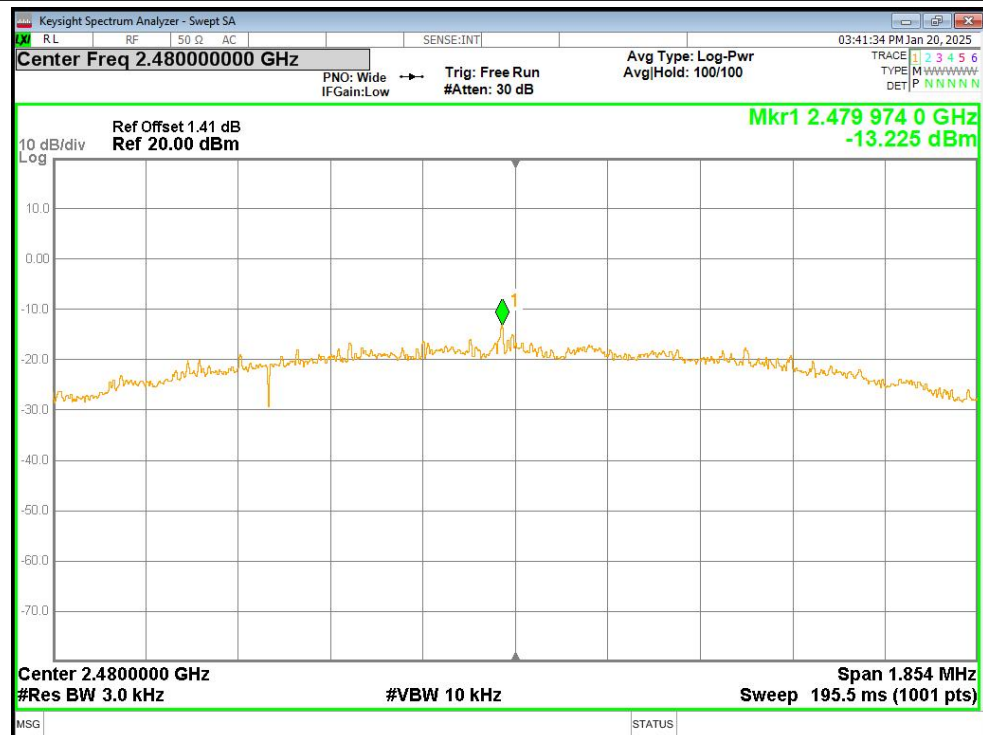
PSD NVNT BLE 2M 2402MHz Ant1



PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1



5.Band Edge

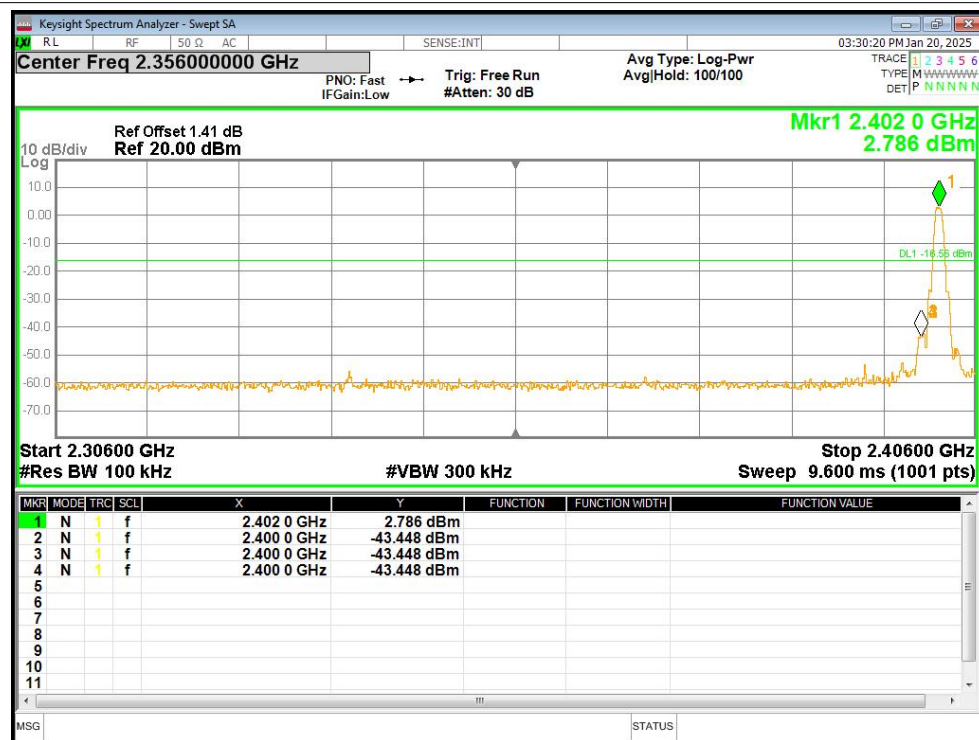
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-46.88	-20	Pass
BLE 1M	2480	-59.07	-20	Pass
BLE 2M	2402	-27.44	-20	Pass
BLE 2M	2480	-56.83	-20	Pass

Test Graphs

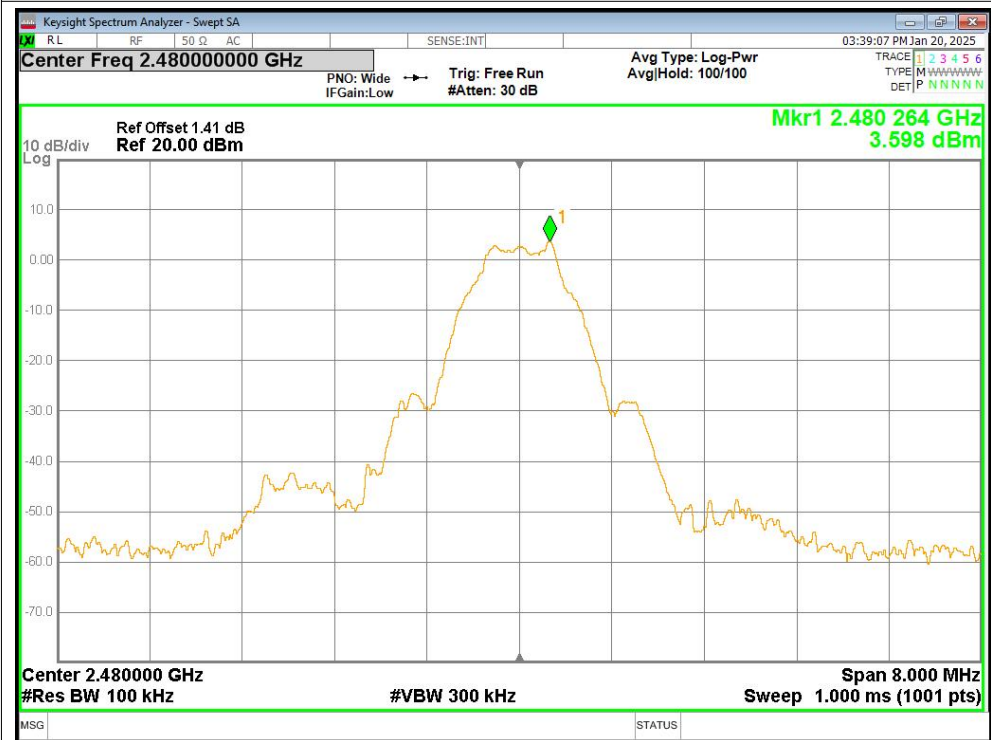
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



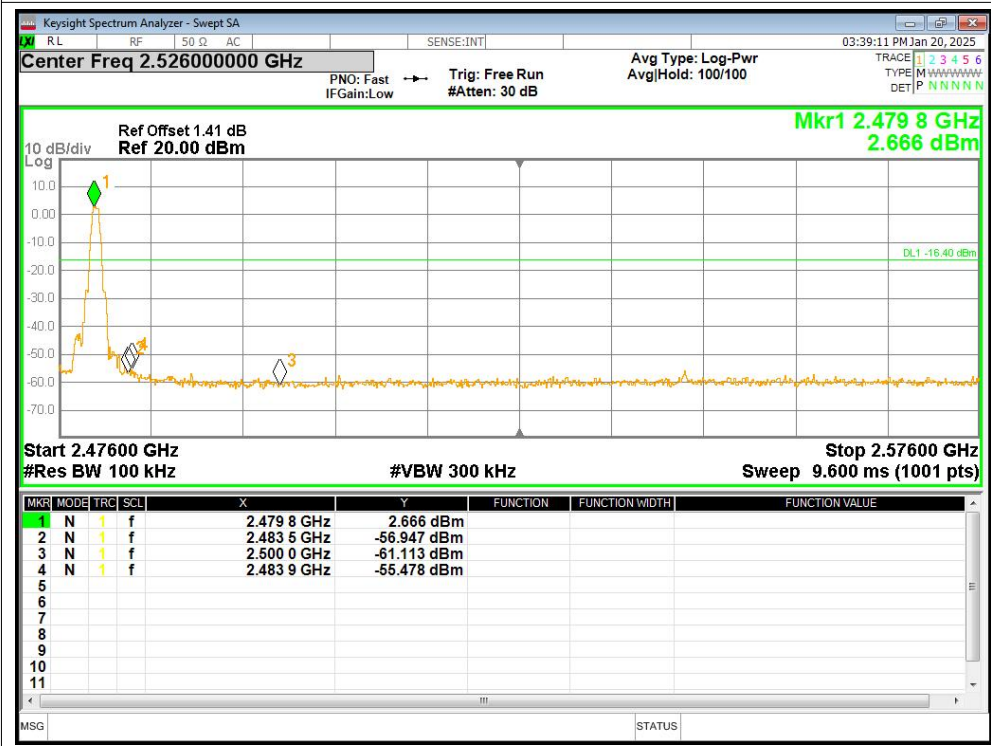
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

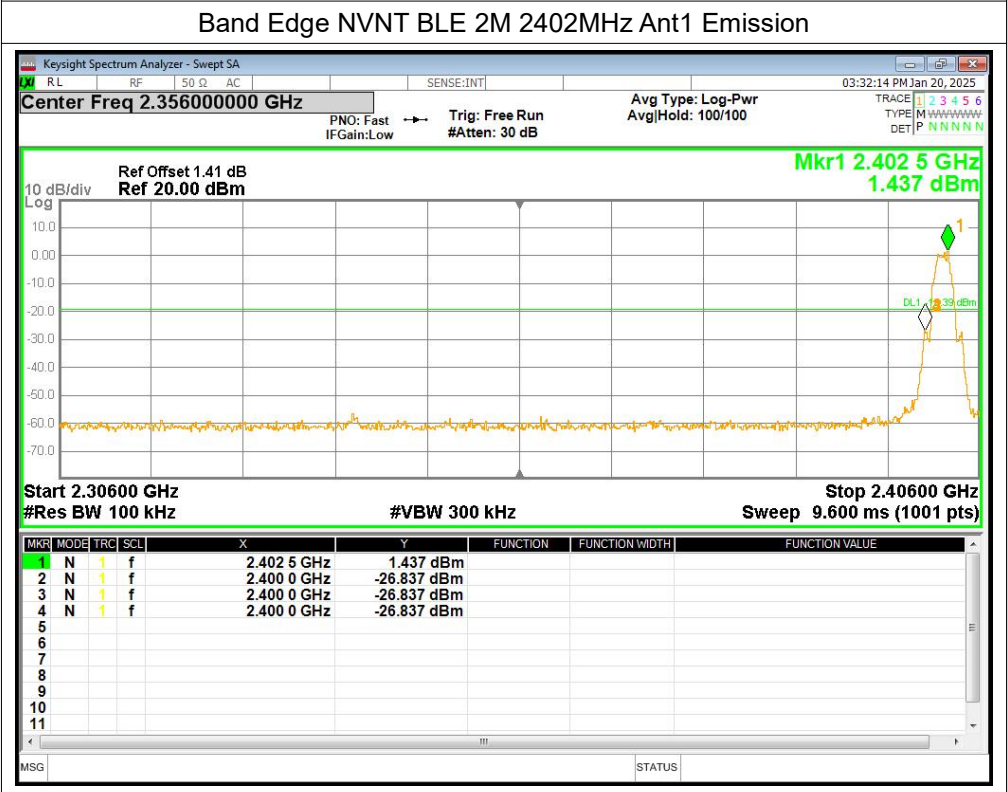


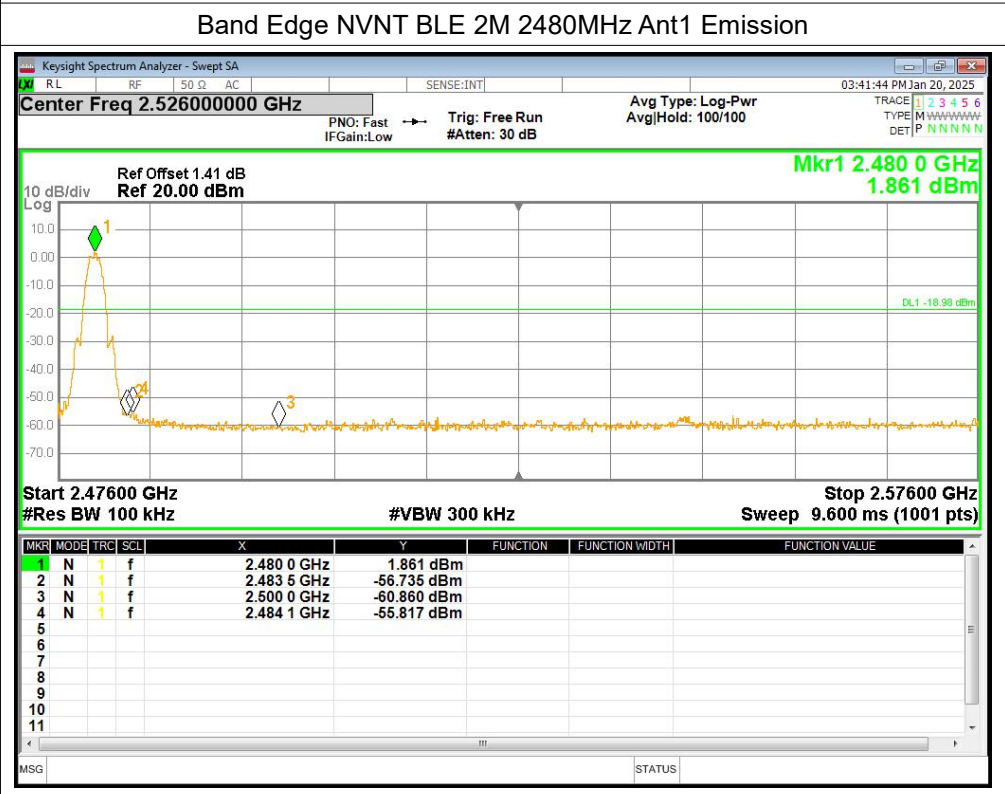
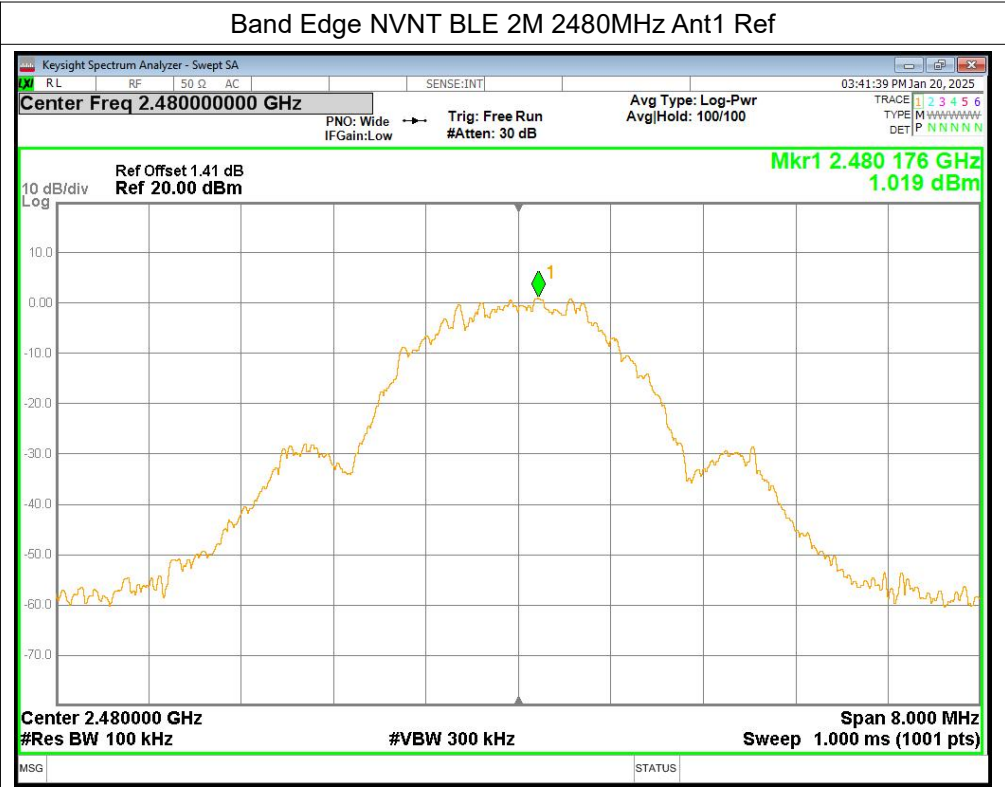
Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission

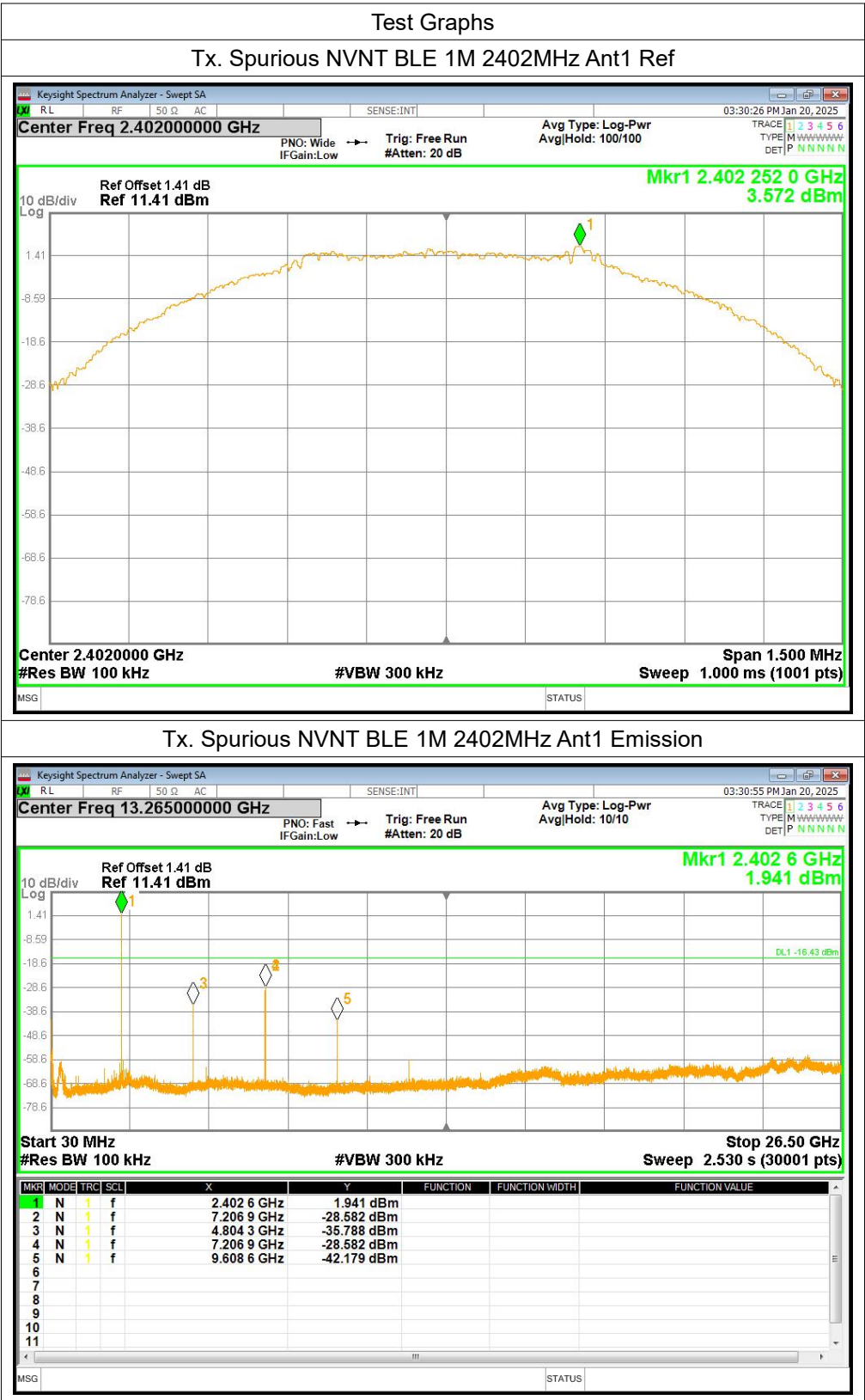




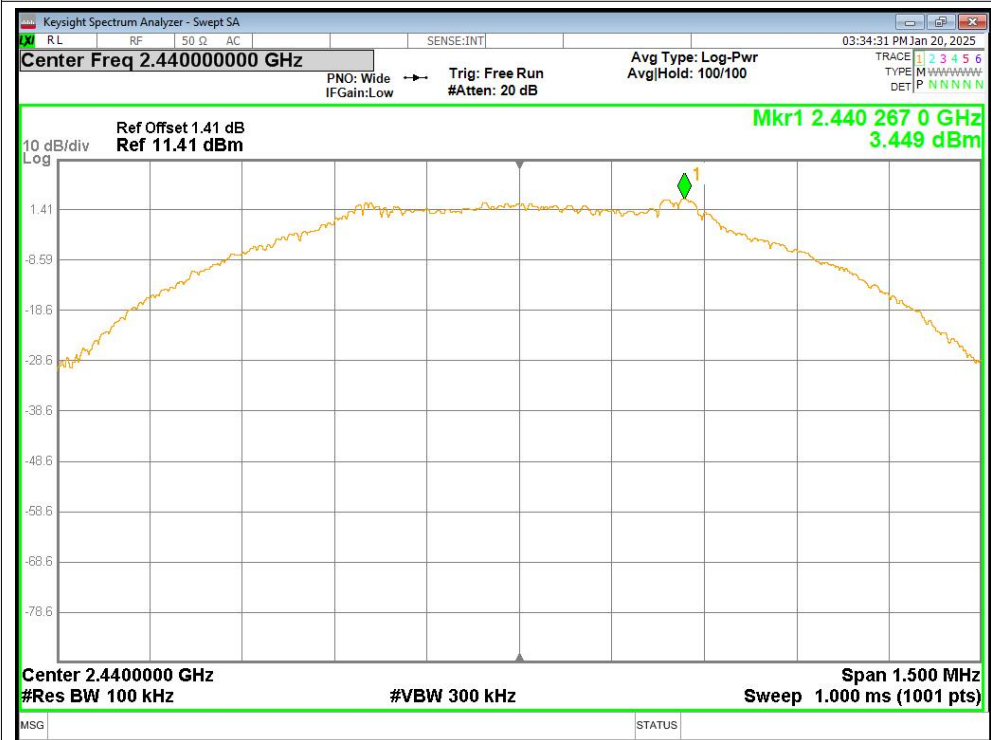


6. Conducted RF Spurious Emission

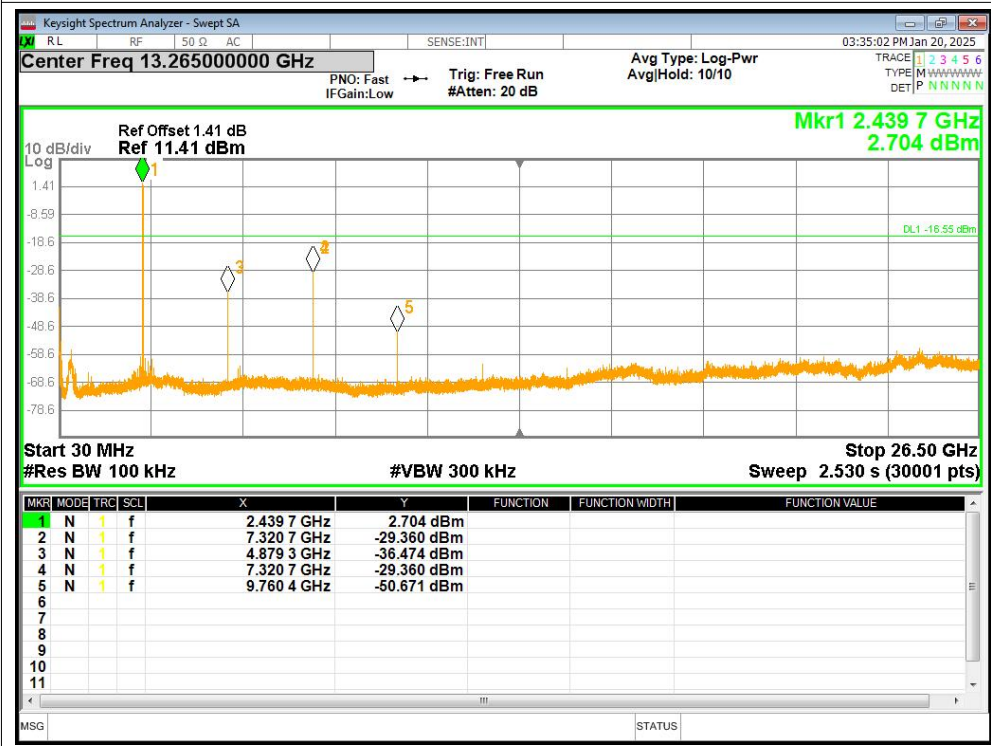
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-32.15	-20	Pass
BLE 1M	2440	-32.81	-20	Pass
BLE 1M	2480	-34.62	-20	Pass
BLE 2M	2402	-33.9	-20	Pass
BLE 2M	2440	-33	-20	Pass
BLE 2M	2480	-32.83	-20	Pass



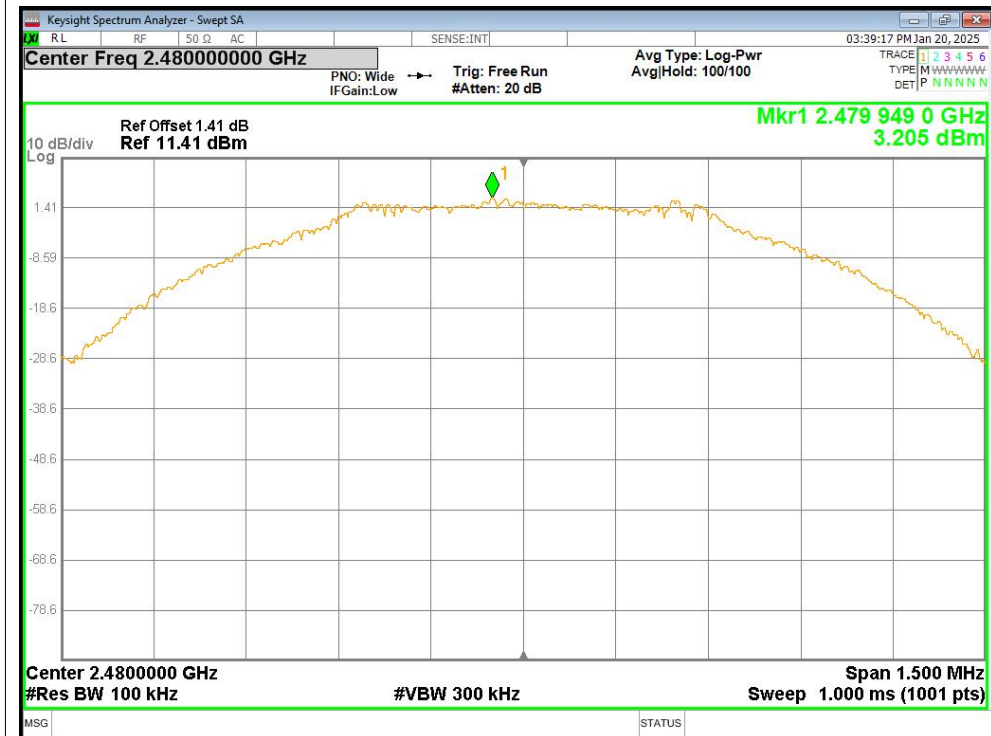
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



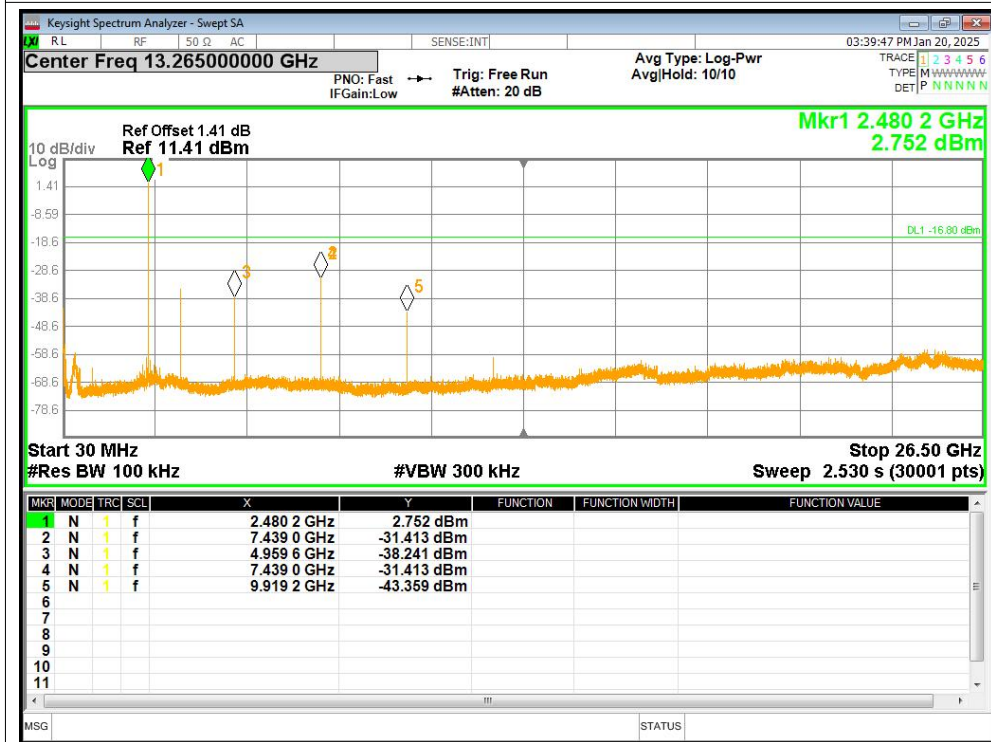
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



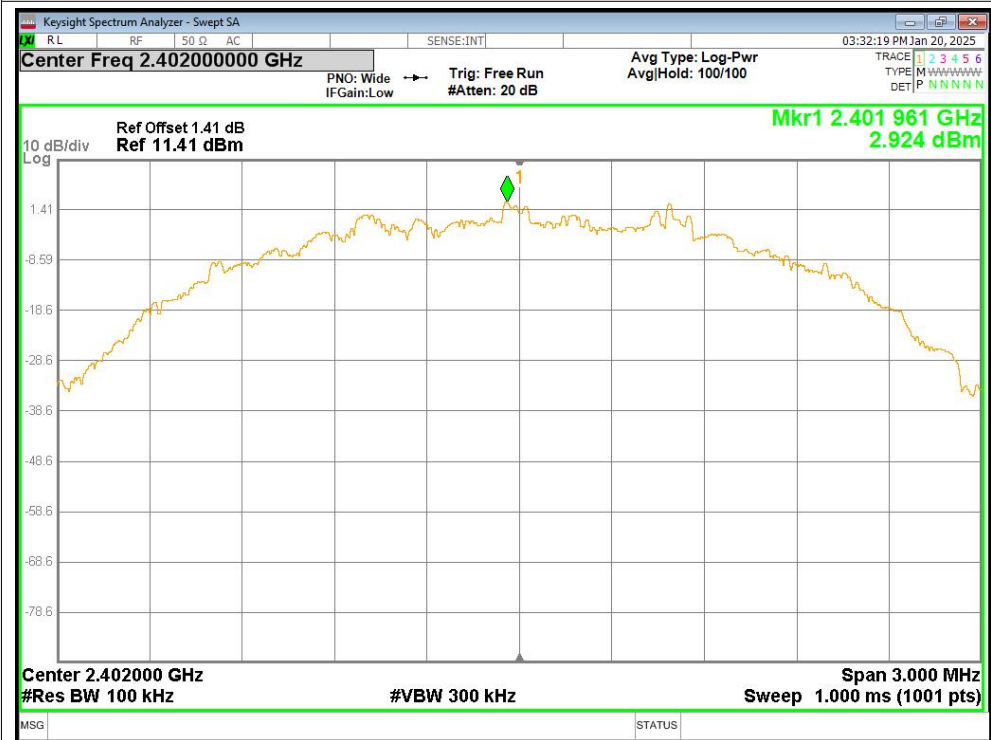
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



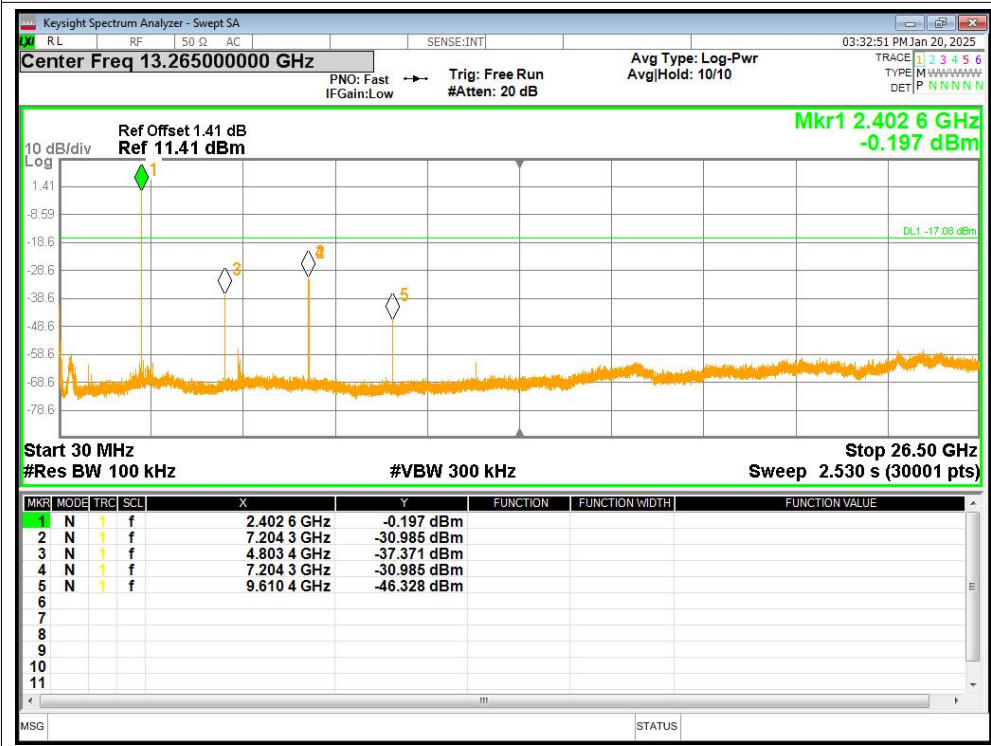
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



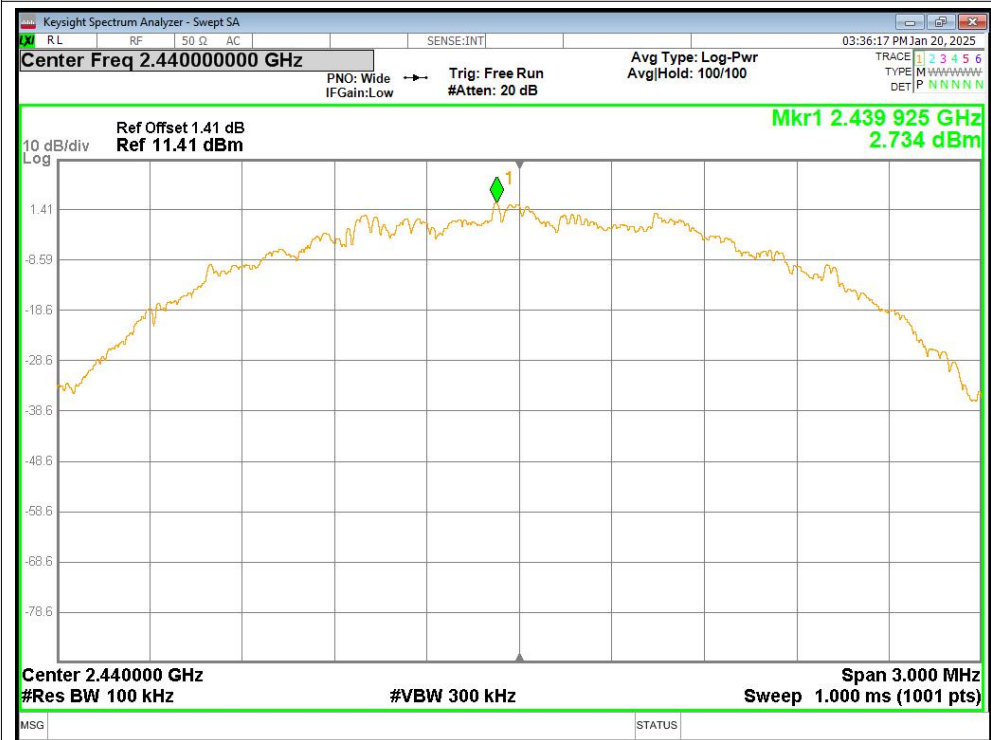
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



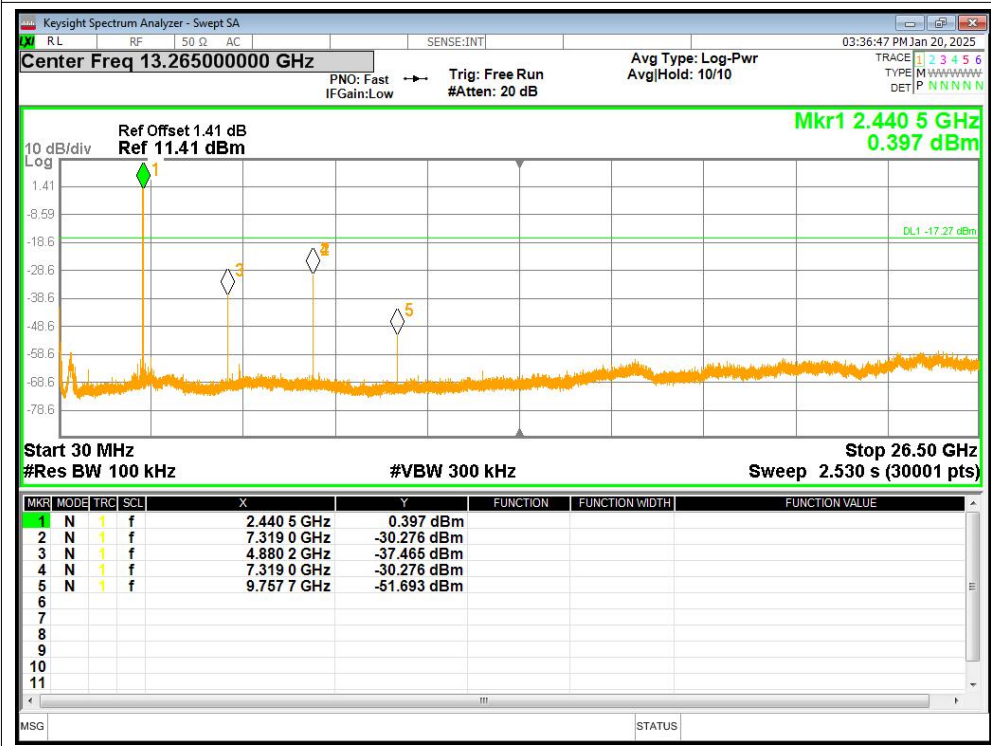
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



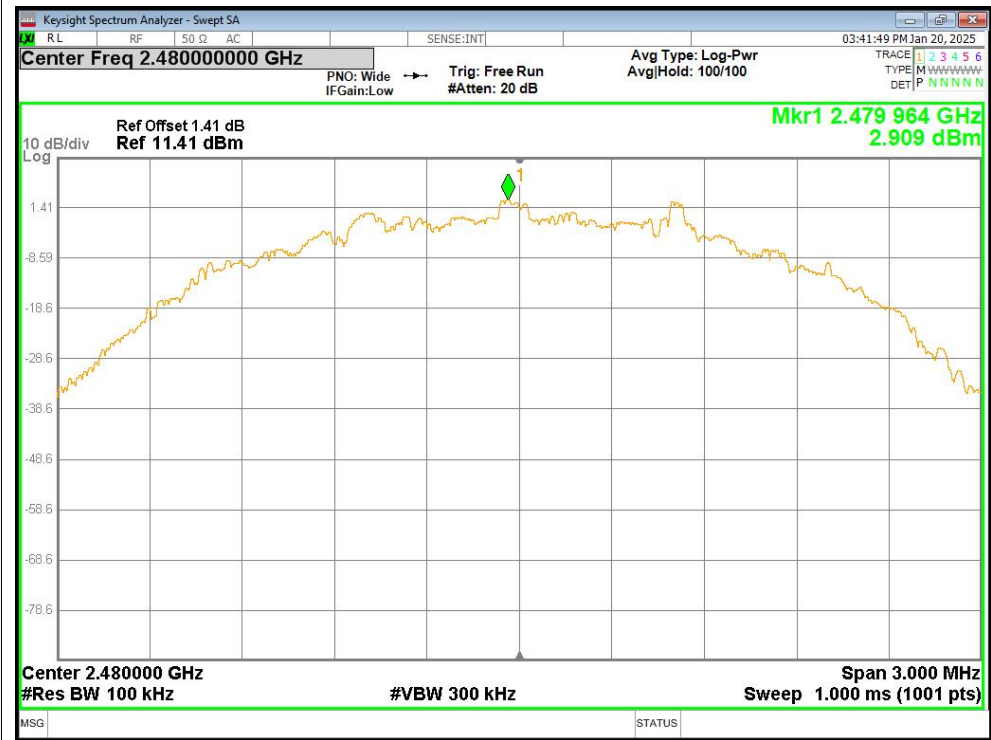
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission

