

Appendix B BLE

Maximum Conducted Output Power

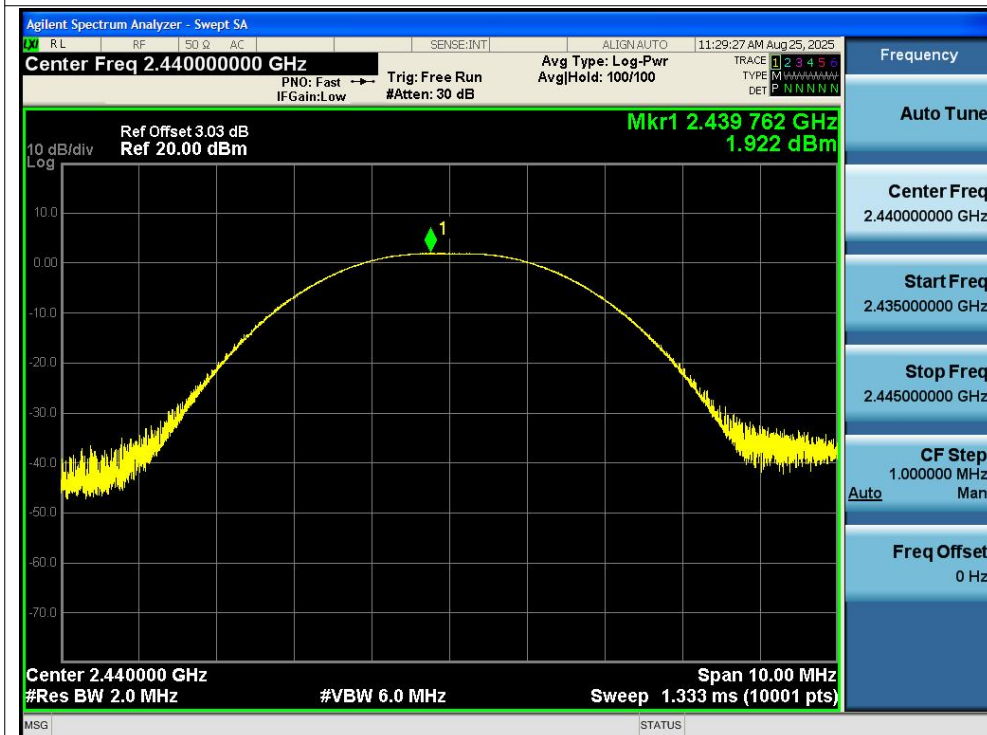
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	2.65	30	Pass
NVNT	BLE 1M	2440	Ant1	1.92	30	Pass
NVNT	BLE 1M	2480	Ant1	1.48	30	Pass
NVNT	BLE 2M	2402	Ant1	2.67	30	Pass
NVNT	BLE 2M	2440	Ant1	2.03	30	Pass
NVNT	BLE 2M	2480	Ant1	1.62	30	Pass

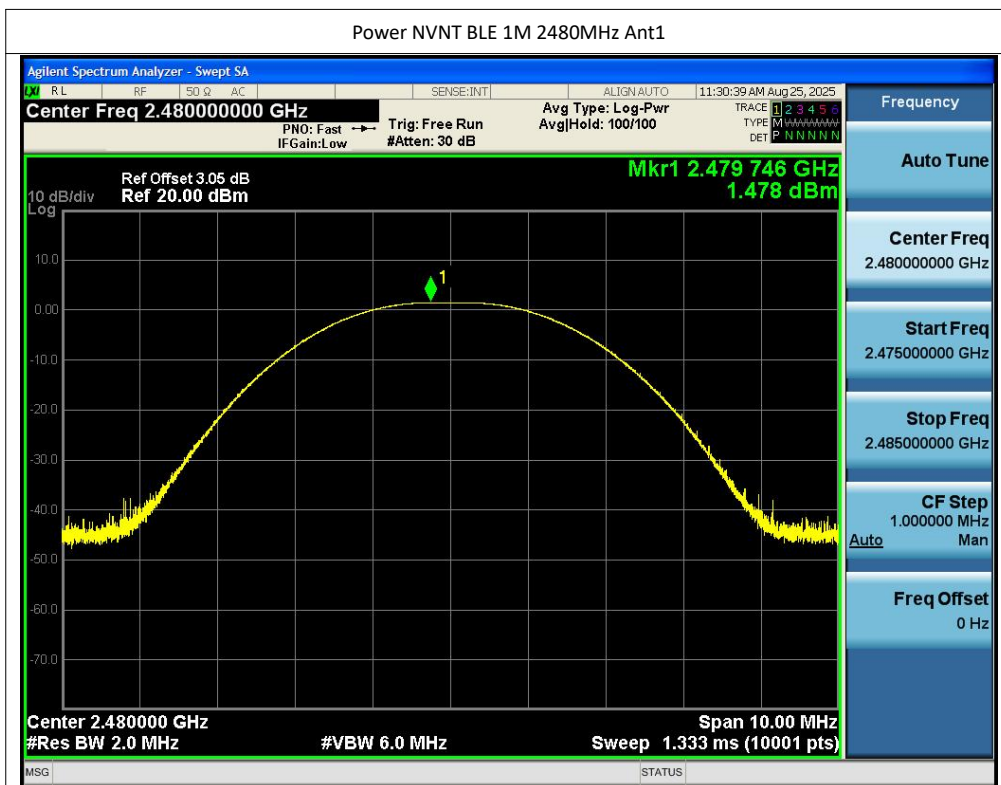
Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1





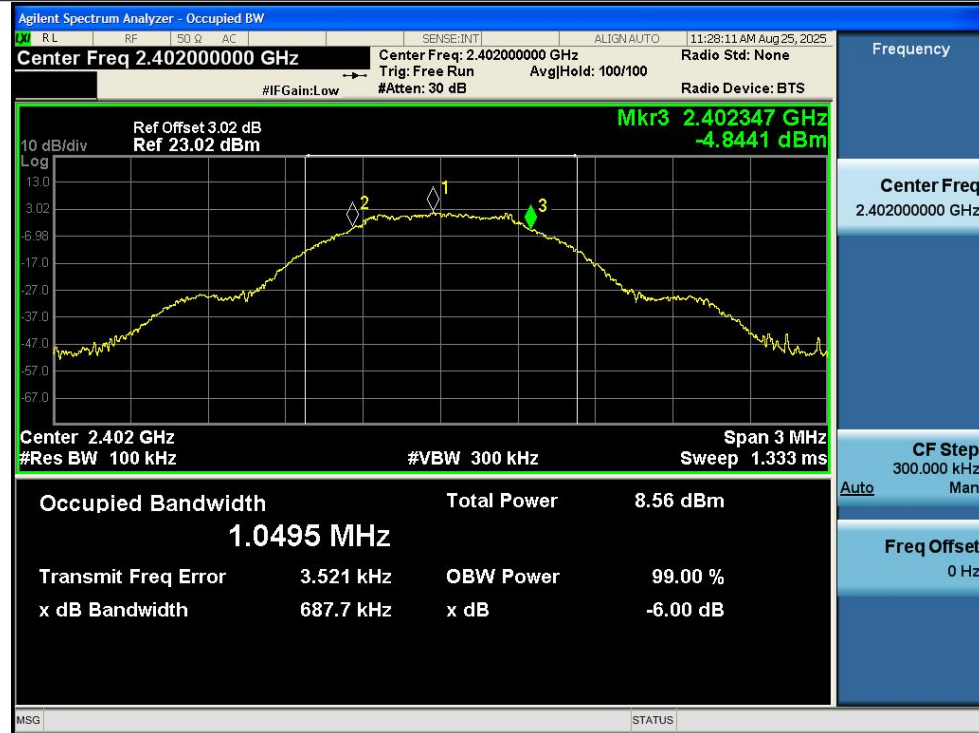


-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.688	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.647	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.651	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.219	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.221	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.138	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



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.048
NVNT	BLE 1M	2440	Ant1	1.04
NVNT	BLE 1M	2480	Ant1	1.04
NVNT	BLE 2M	2402	Ant1	2.049
NVNT	BLE 2M	2440	Ant1	2.074
NVNT	BLE 2M	2480	Ant1	2.067

Test Graphs

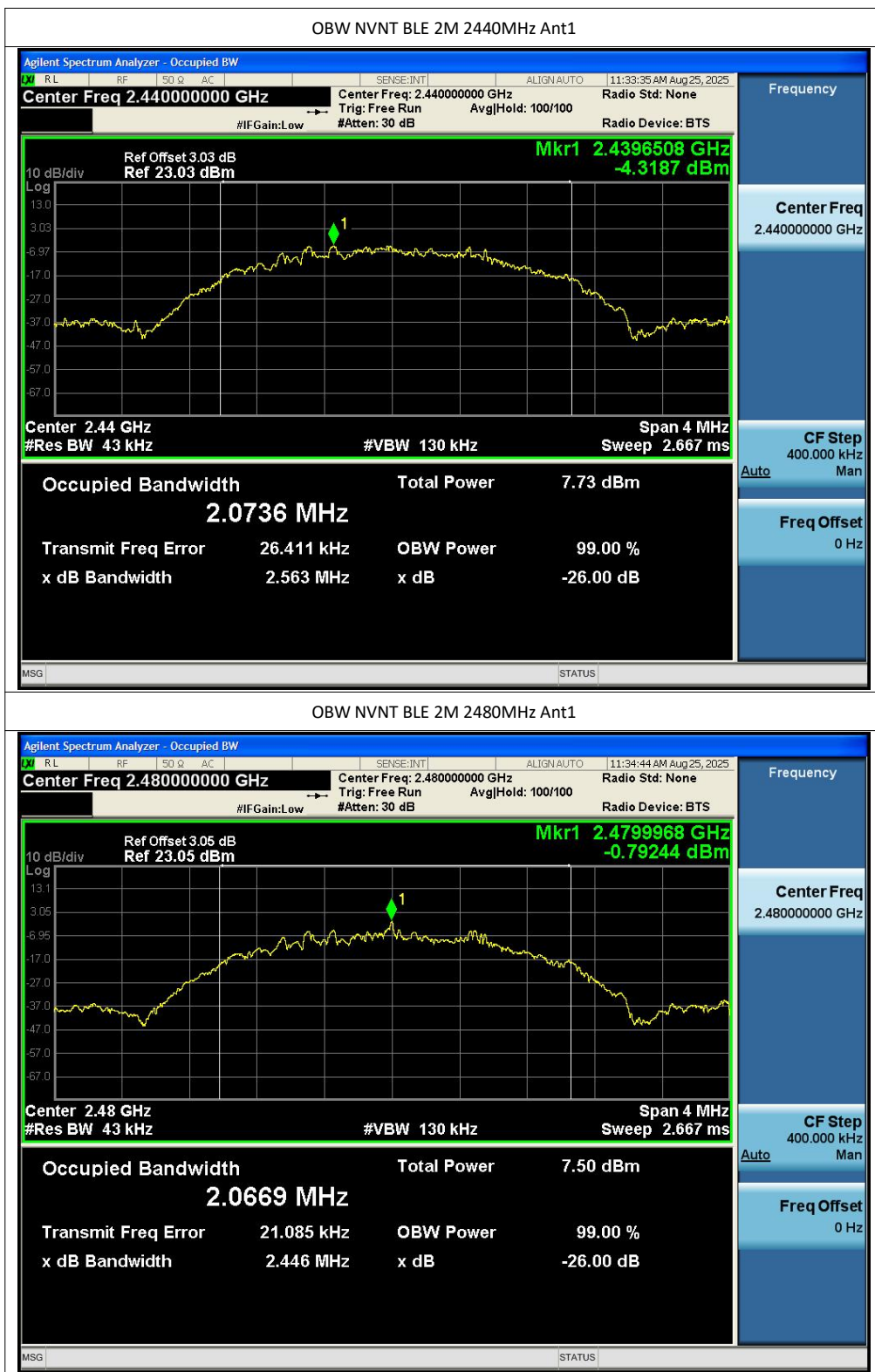
OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1







Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	1.93	8	Pass
NVNT	BLE 1M	2440	Ant1	1.53	8	Pass
NVNT	BLE 1M	2480	Ant1	1.34	8	Pass
NVNT	BLE 2M	2402	Ant1	1.75	8	Pass
NVNT	BLE 2M	2440	Ant1	1.23	8	Pass
NVNT	BLE 2M	2480	Ant1	0.98	8	Pass

Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1





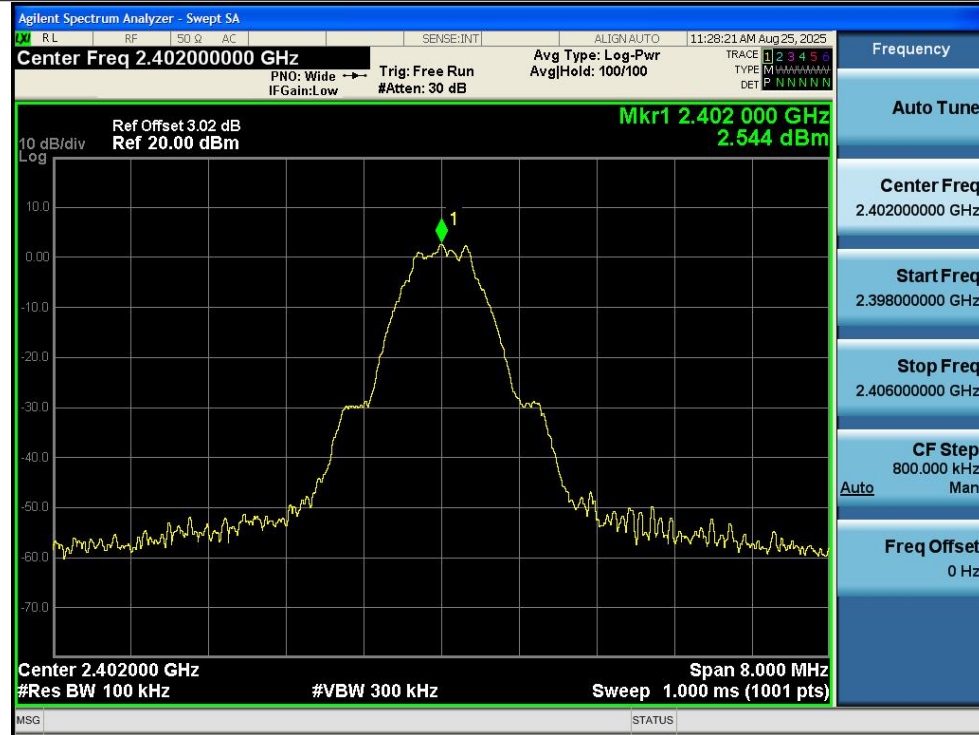


Band Edge

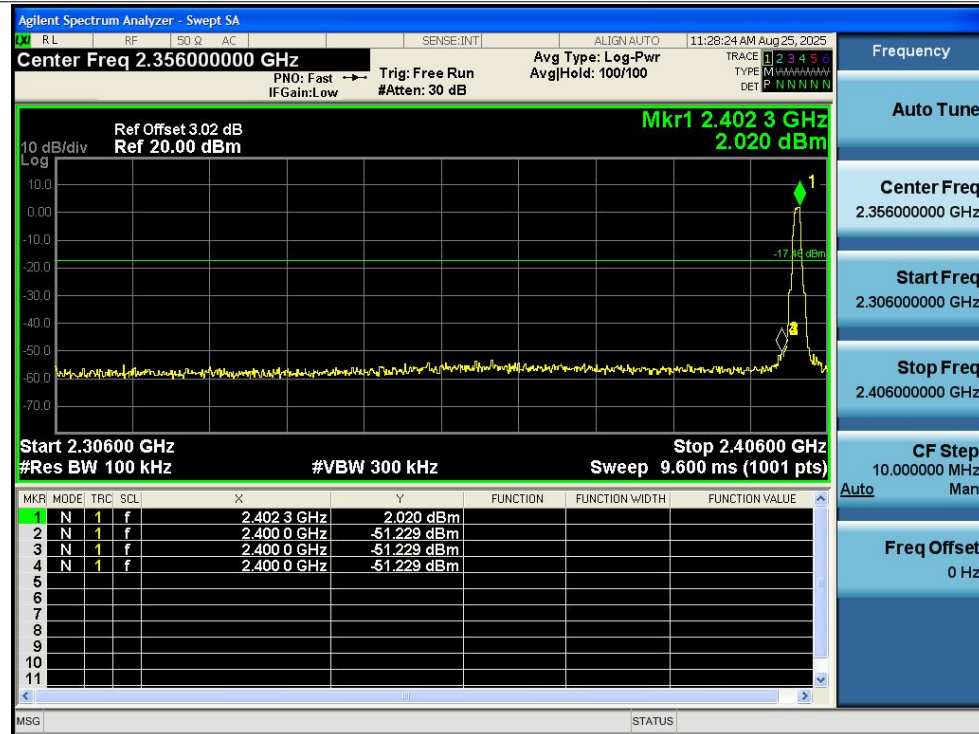
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.76	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.98	-20	Pass
NVNT	BLE 2M	2402	Ant1	-32.5	-20	Pass
NVNT	BLE 2M	2480	Ant1	-50.88	-20	Pass

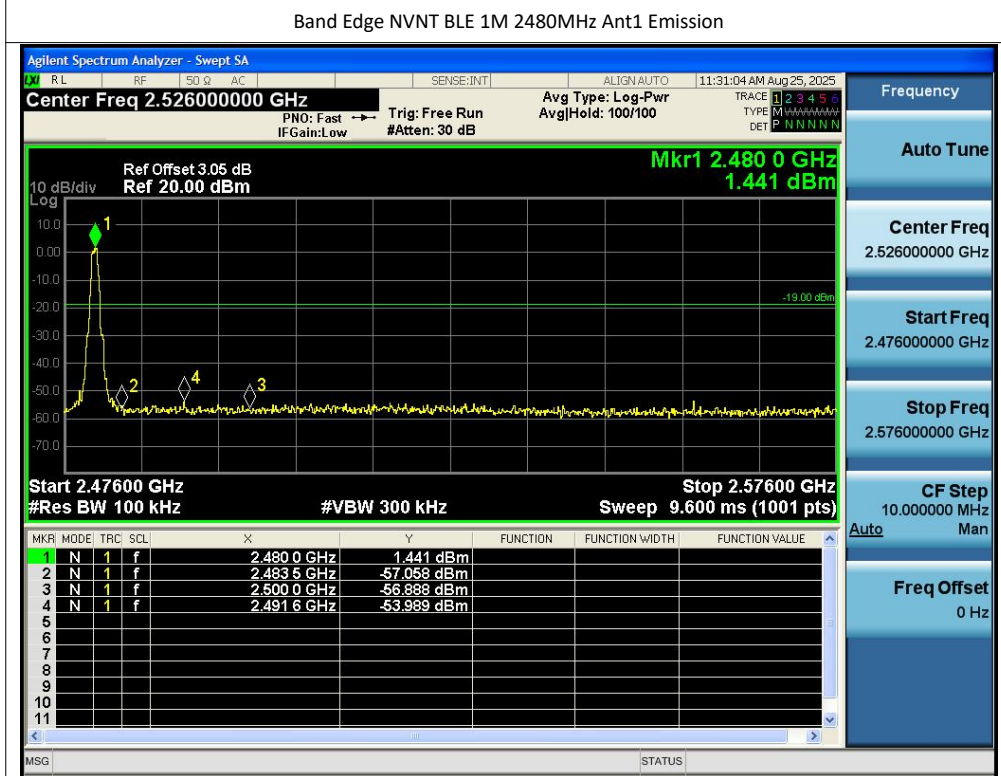
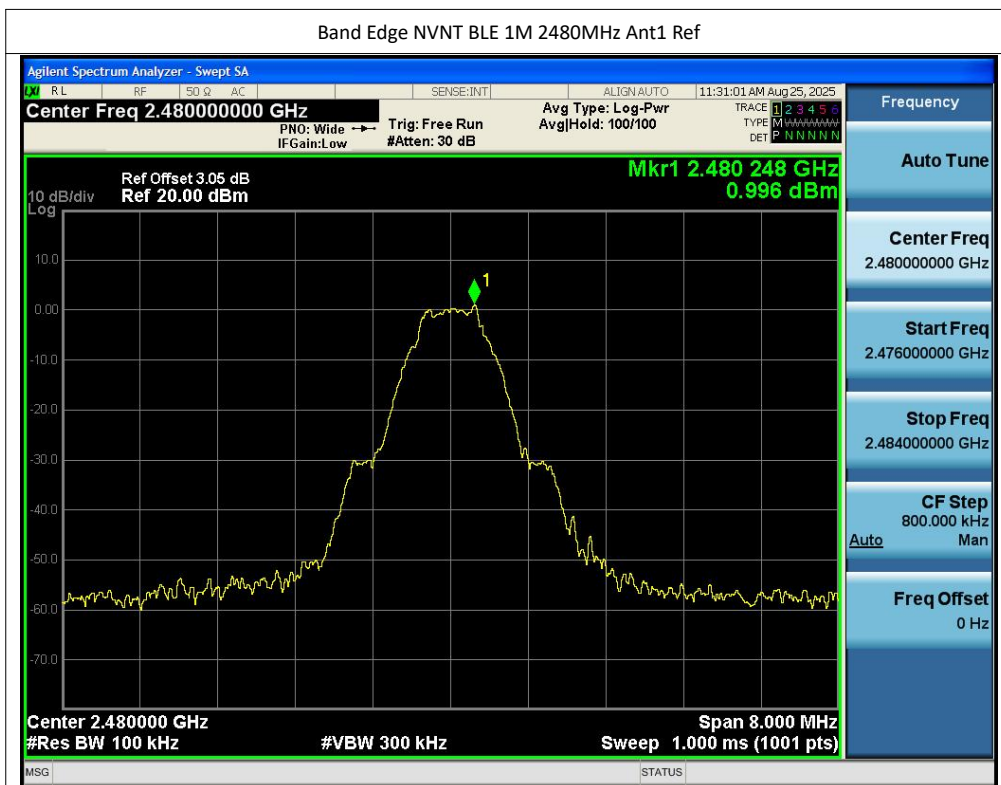
Test Graphs

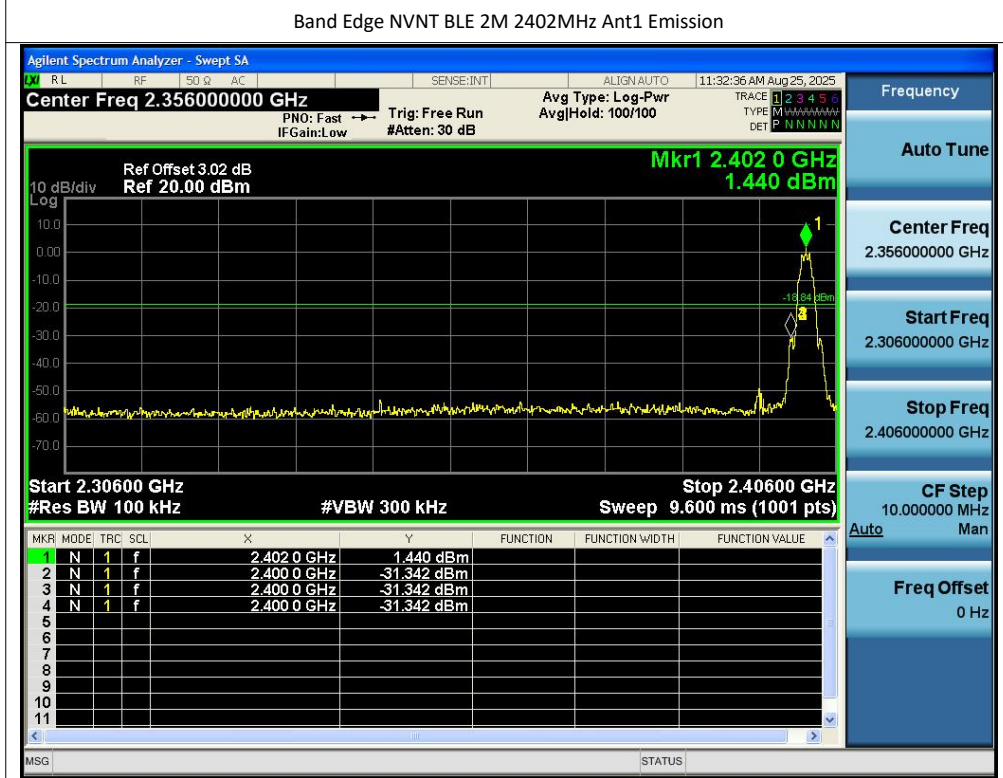
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



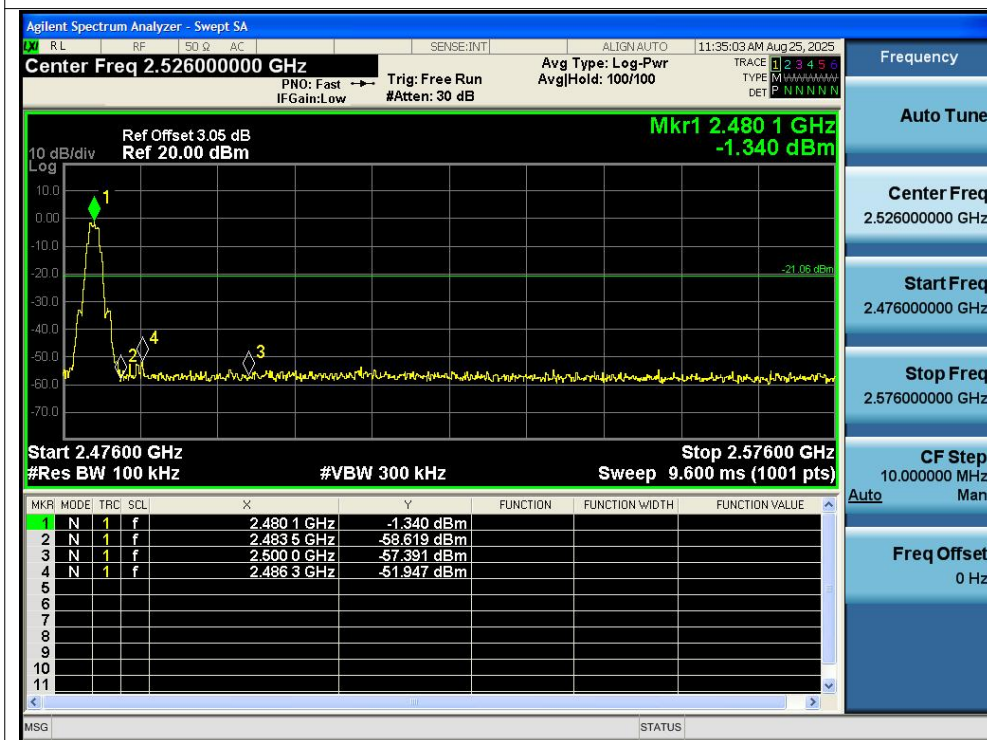




Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



Conducted RF Spurious Emission

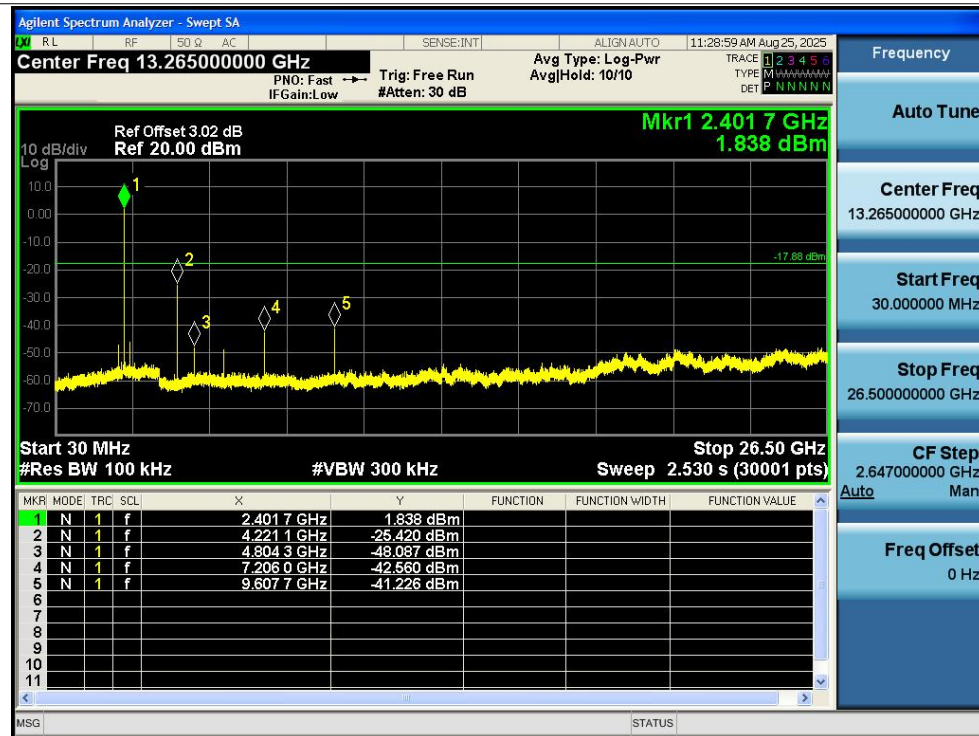
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-27.55	-20	Pass
NVNT	BLE 1M	2440	Ant1	-42.38	-20	Pass
NVNT	BLE 1M	2480	Ant1	-41.87	-20	Pass
NVNT	BLE 2M	2402	Ant1	-42.61	-20	Pass
NVNT	BLE 2M	2440	Ant1	-42.18	-20	Pass
NVNT	BLE 2M	2480	Ant1	-41.54	-20	Pass

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



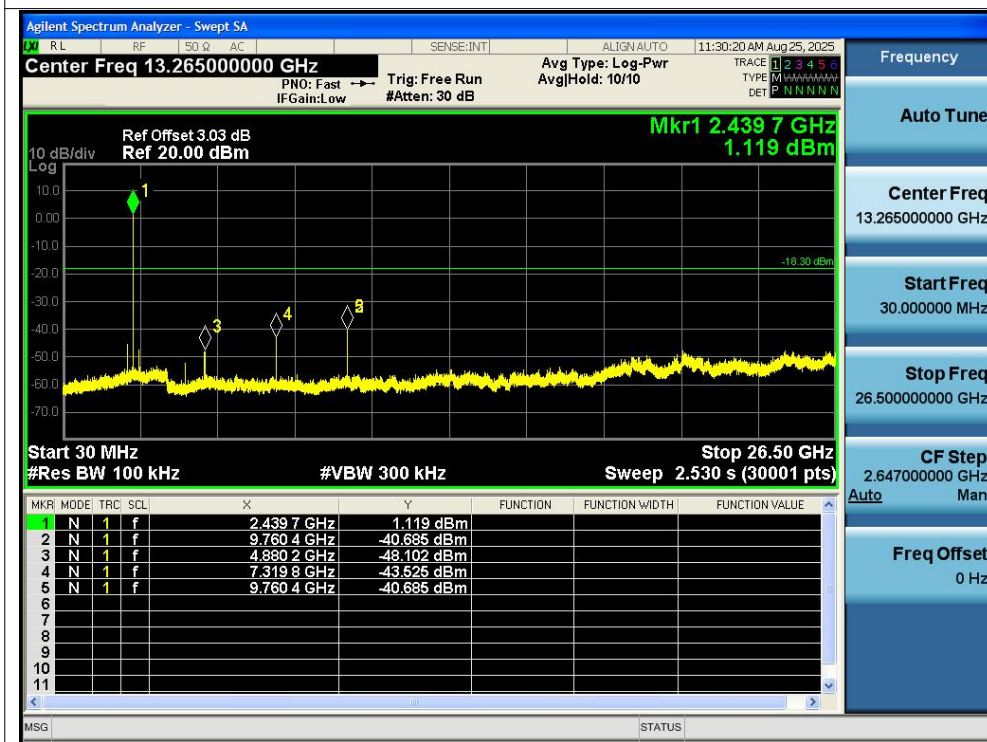
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



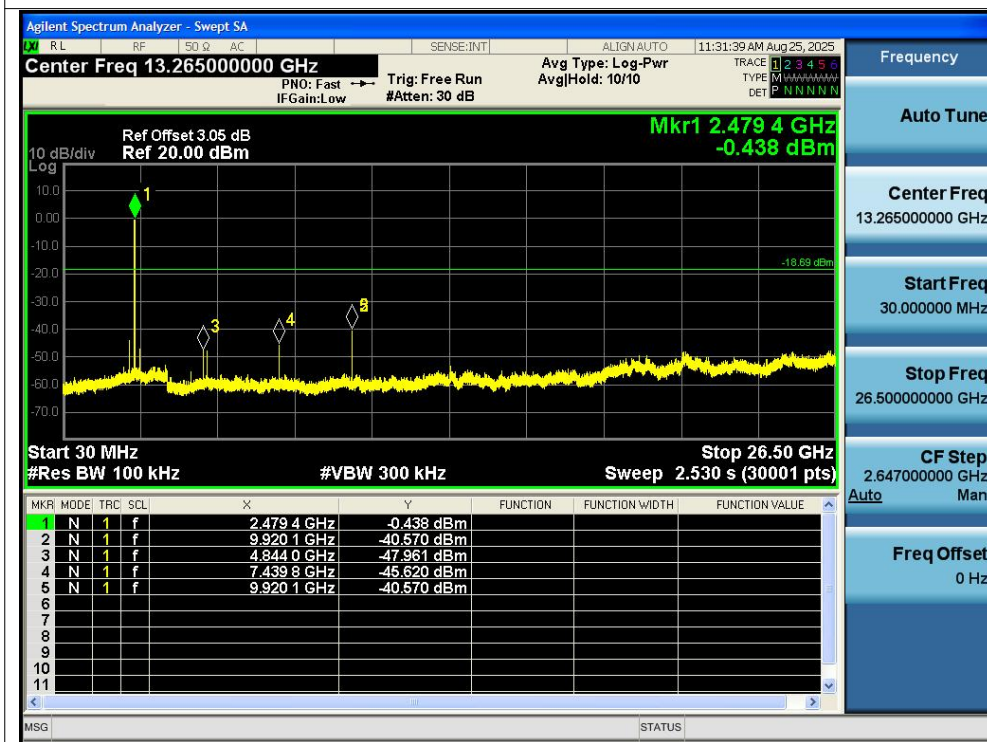
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



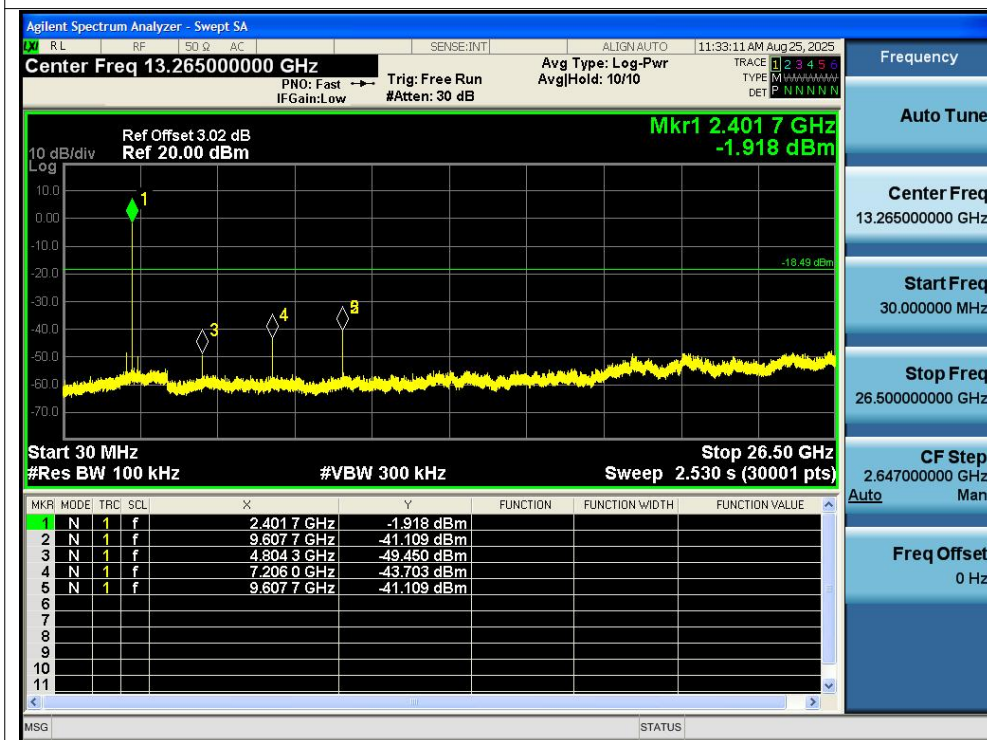
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



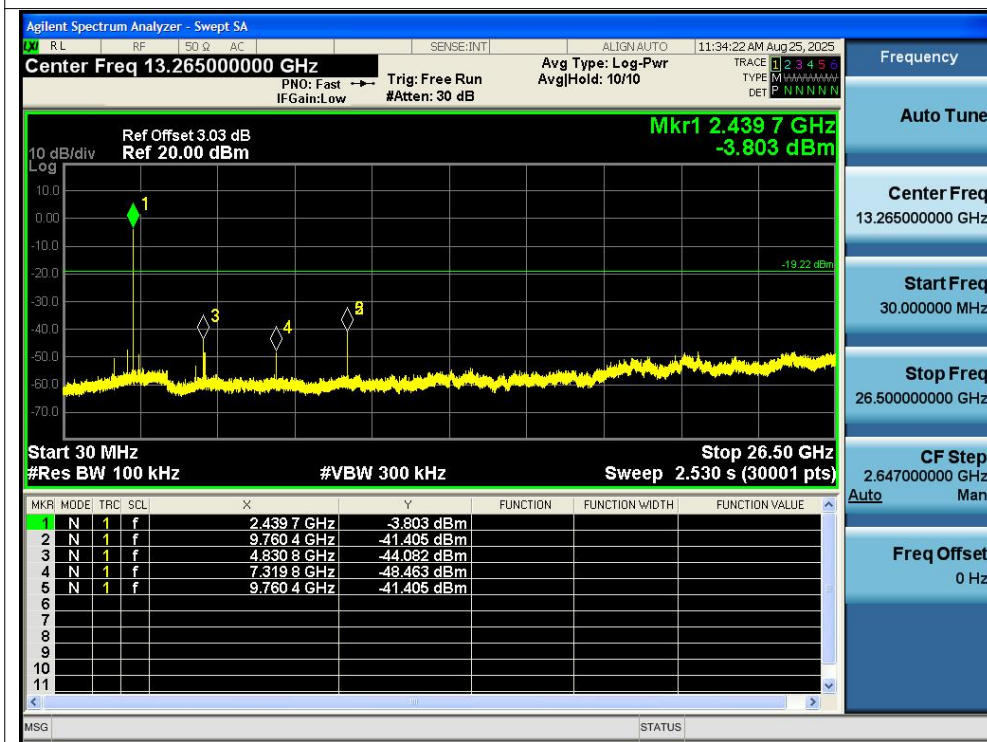
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



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

