

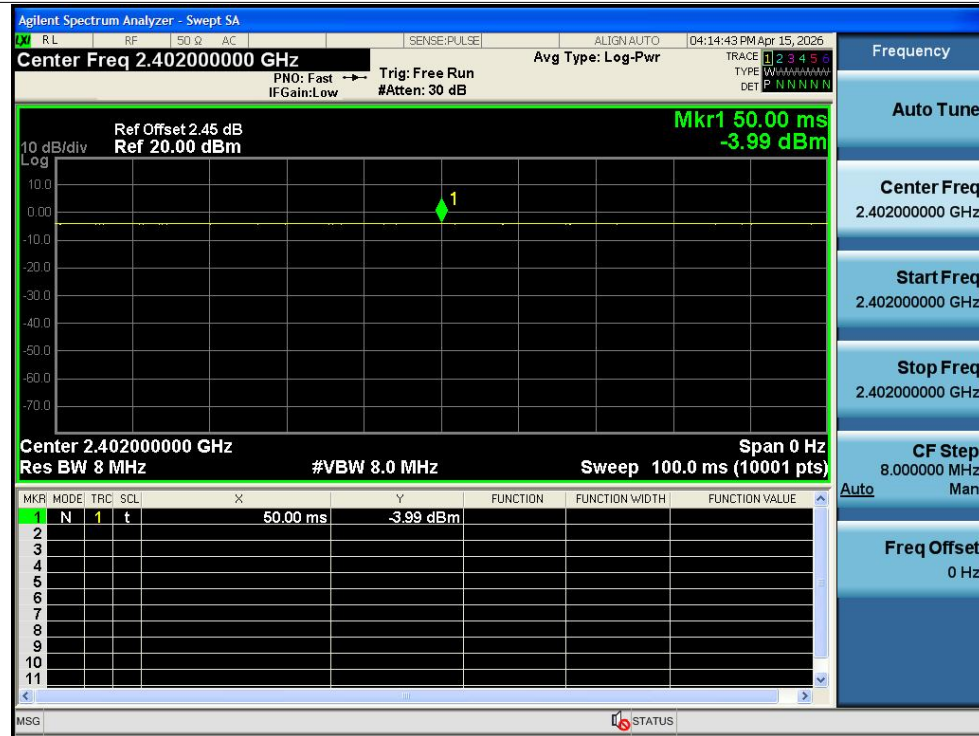
Appendix D_BLE

Duty Cycle

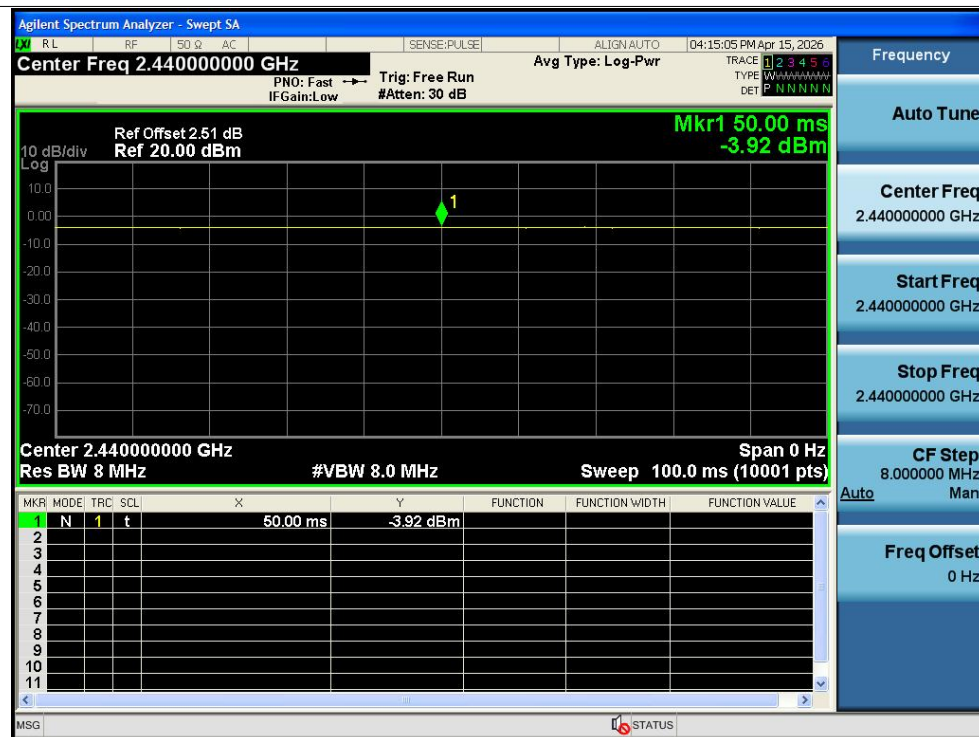
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	100	0	0.01
NVNT	BLE 1M	2440	Ant1	100	0	0.01
NVNT	BLE 1M	2480	Ant1	100	0	0.01
NVNT	BLE 2M	2402	Ant1	100	0	0.01
NVNT	BLE 2M	2440	Ant1	100	0	0.01
NVNT	BLE 2M	2480	Ant1	100	0	0.01

Test Graphs

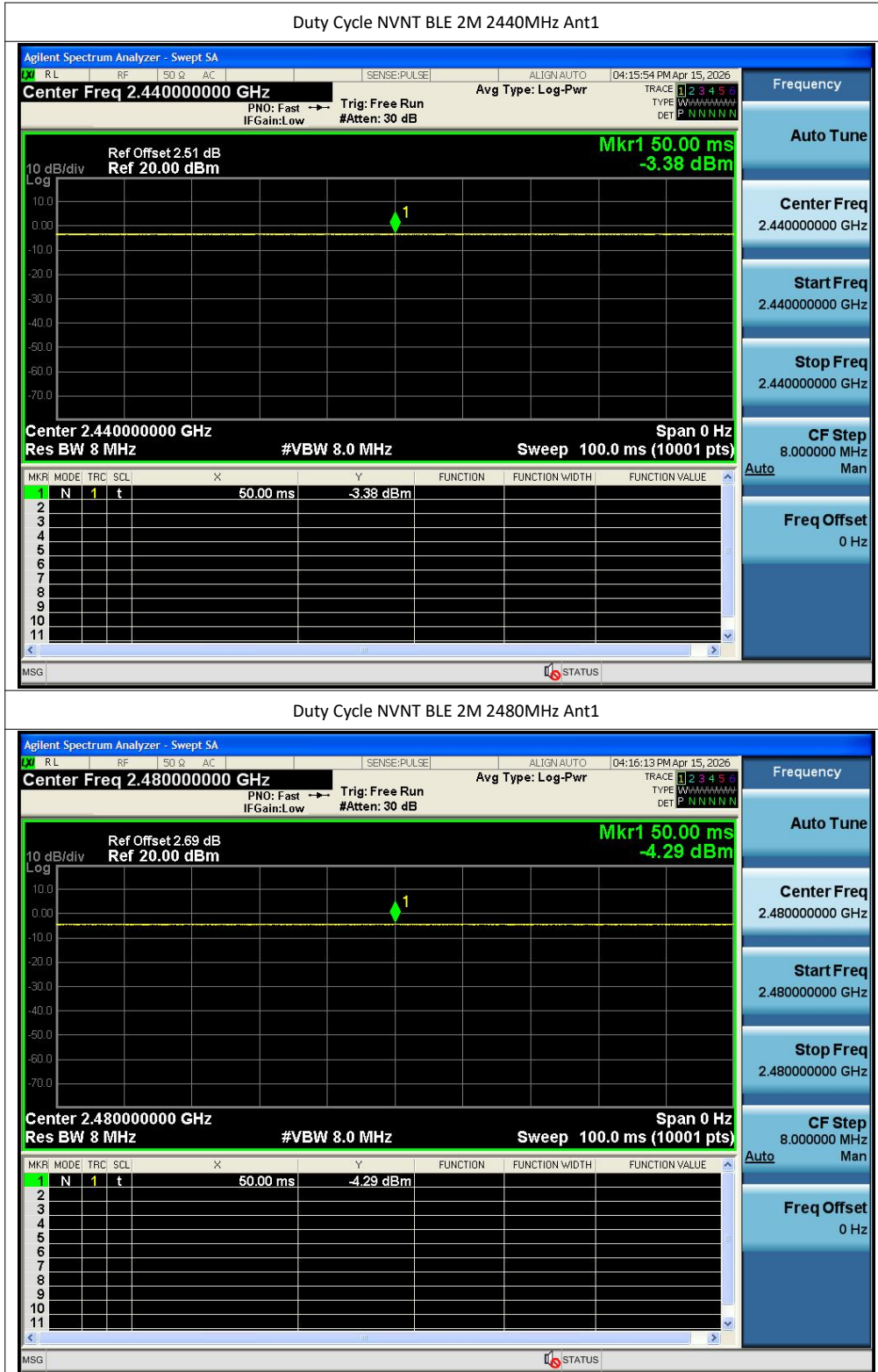
Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1





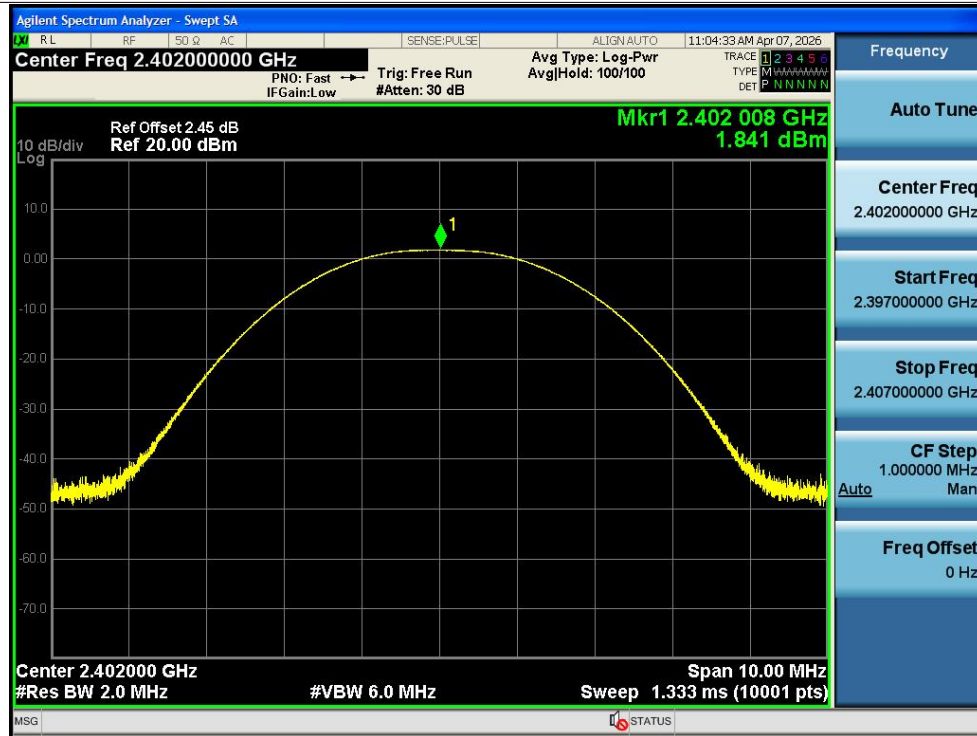


Maximum Conducted Output Power

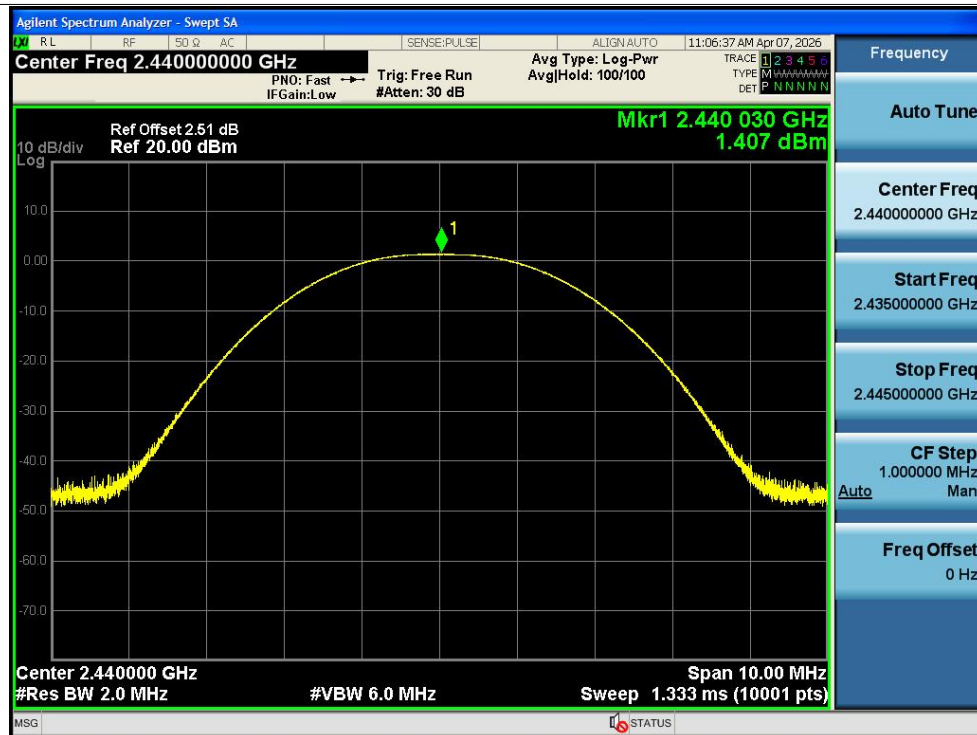
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	1.84	0	1.84	30	Pass
NVNT	BLE 1M	2440	Ant1	1.41	0	1.41	30	Pass
NVNT	BLE 1M	2480	Ant1	1.97	0	1.97	30	Pass
NVNT	BLE 2M	2402	Ant1	1.67	0	1.67	30	Pass
NVNT	BLE 2M	2440	Ant1	2.13	0	2.13	30	Pass
NVNT	BLE 2M	2480	Ant1	1.88	0	1.88	30	Pass

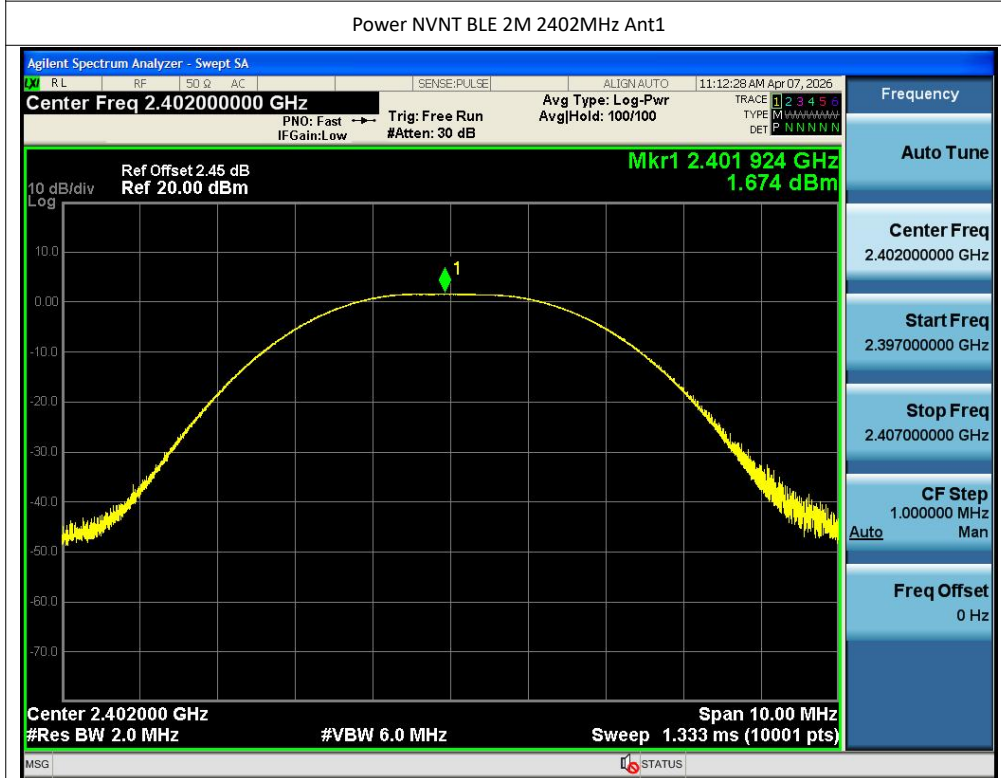
Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1





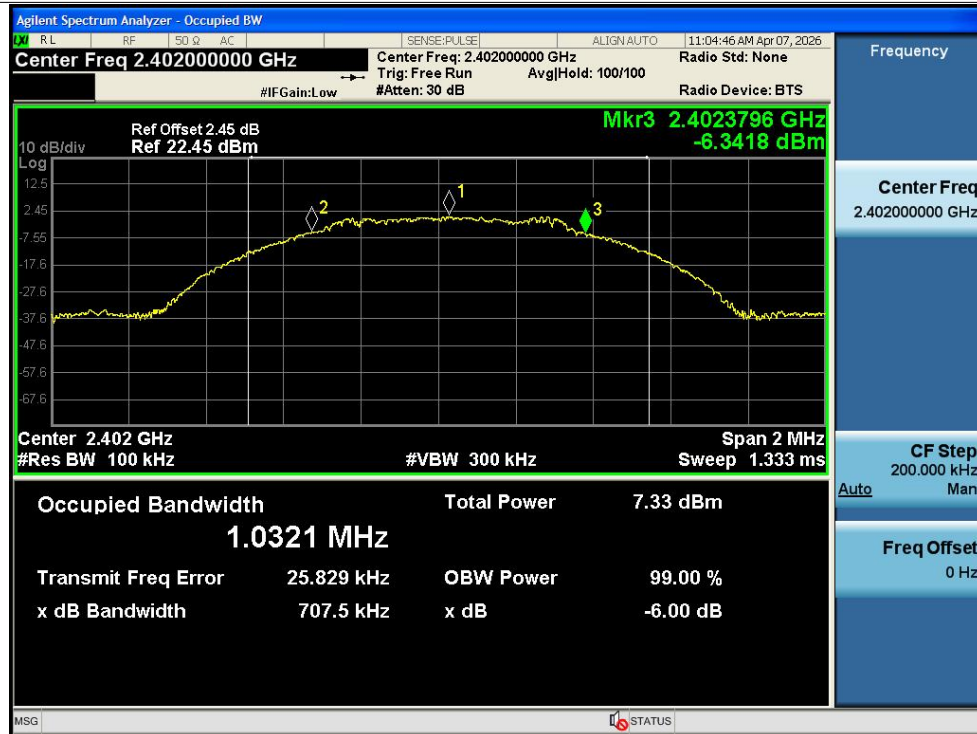


-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.7075	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6988	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.7211	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.326	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.347	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.347	0.5	Pass

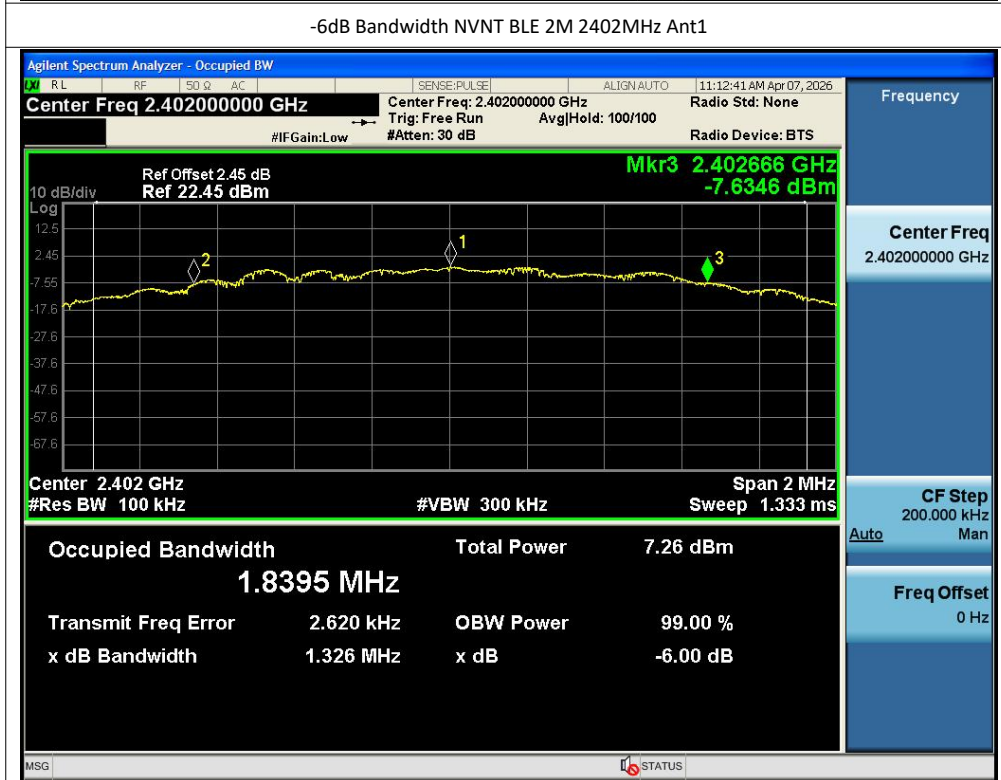
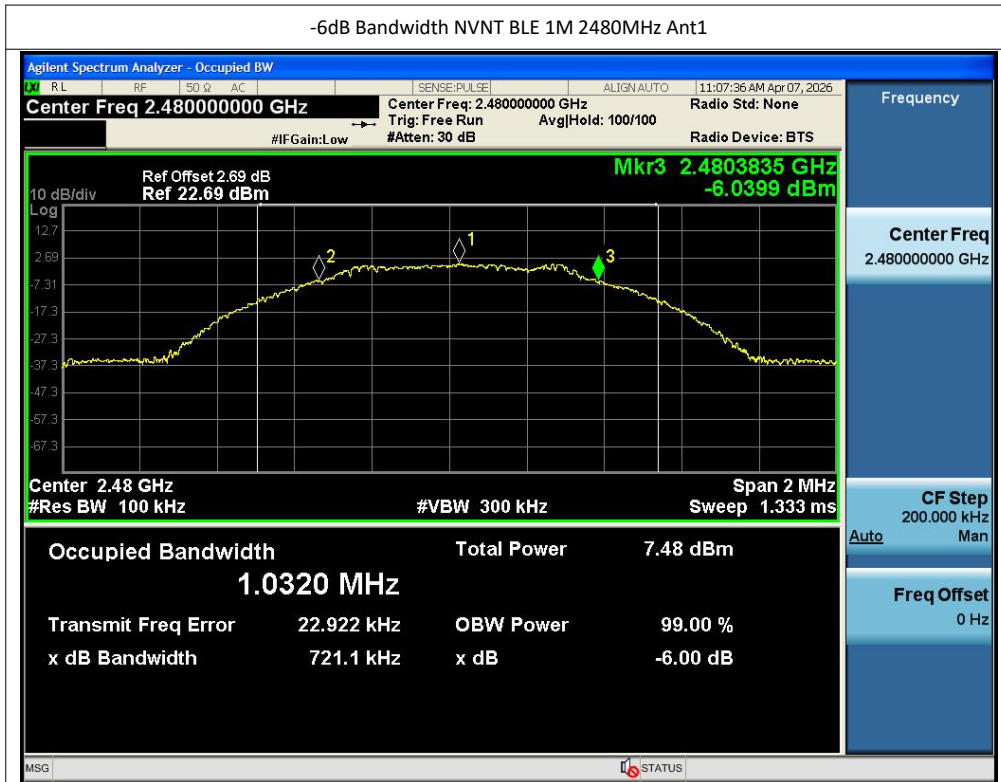
Test Graphs

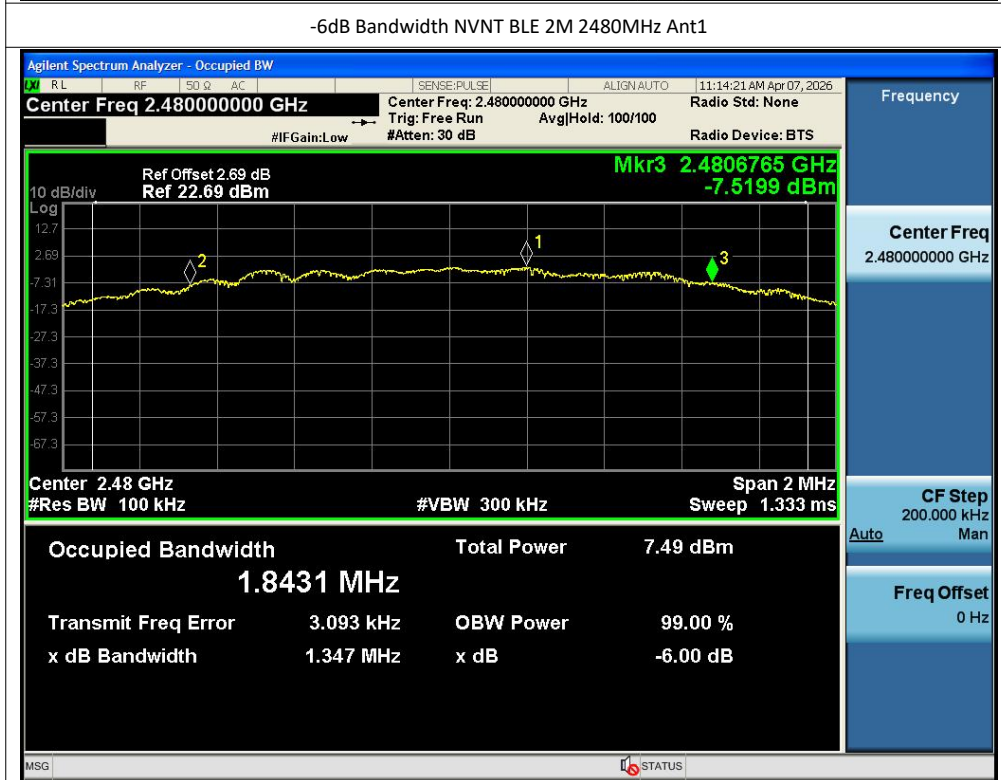
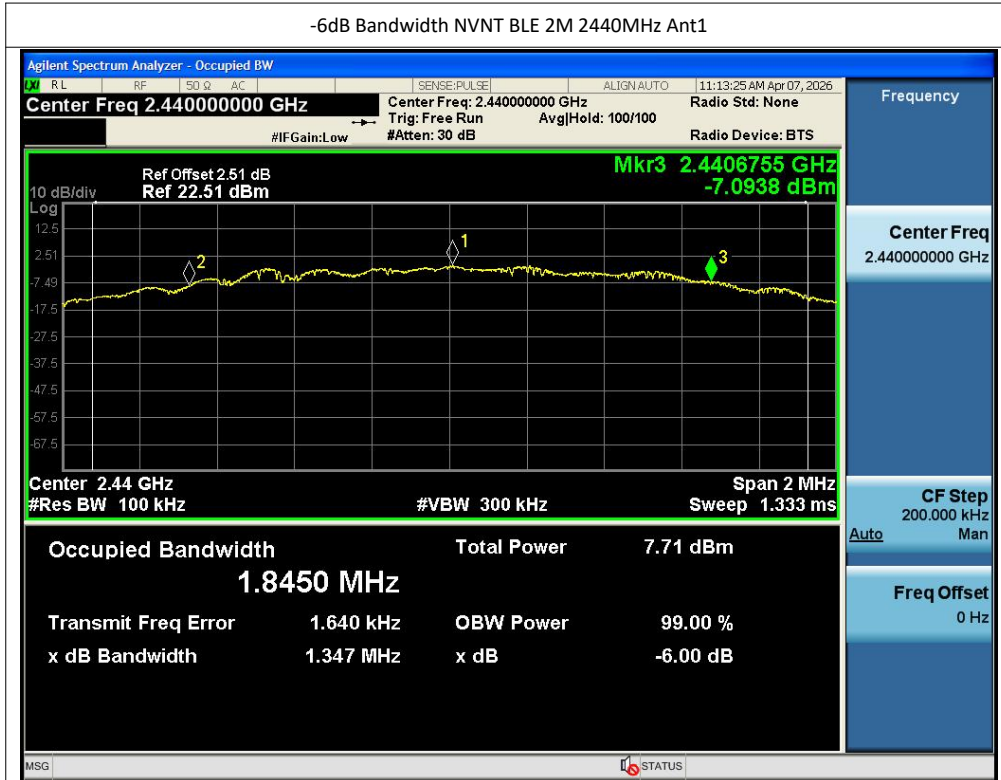
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1







Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.0284
NVNT	BLE 1M	2440	Ant1	1.0325
NVNT	BLE 1M	2480	Ant1	1.0343
NVNT	BLE 2M	2402	Ant1	2.0527
NVNT	BLE 2M	2440	Ant1	2.0608
NVNT	BLE 2M	2480	Ant1	2.0552

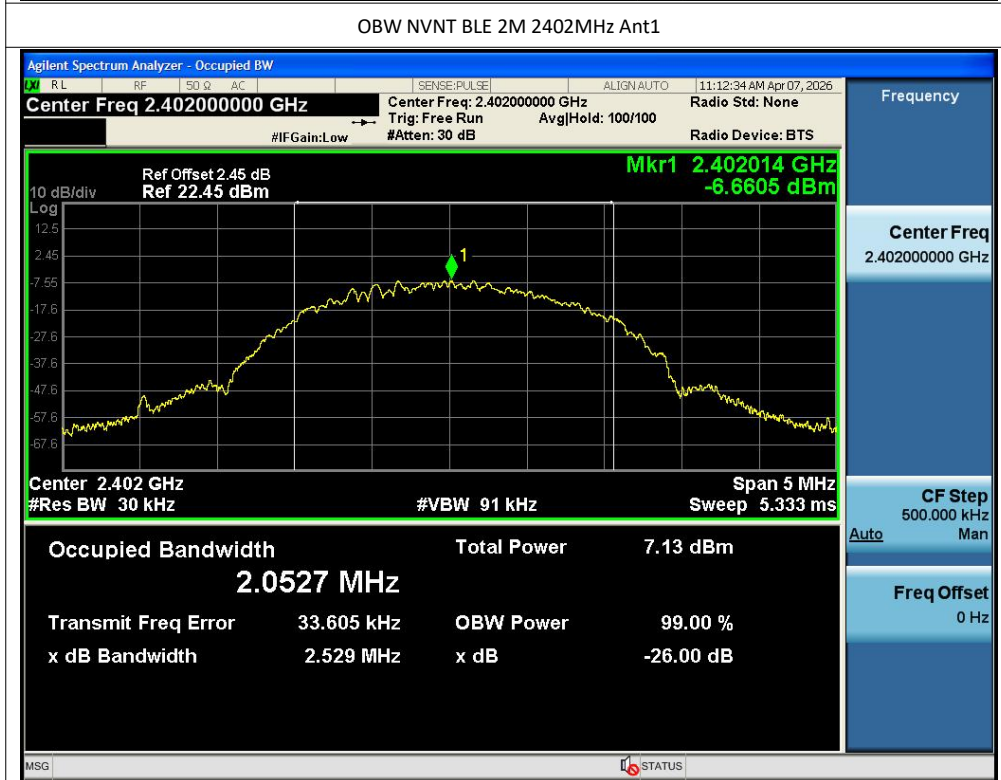
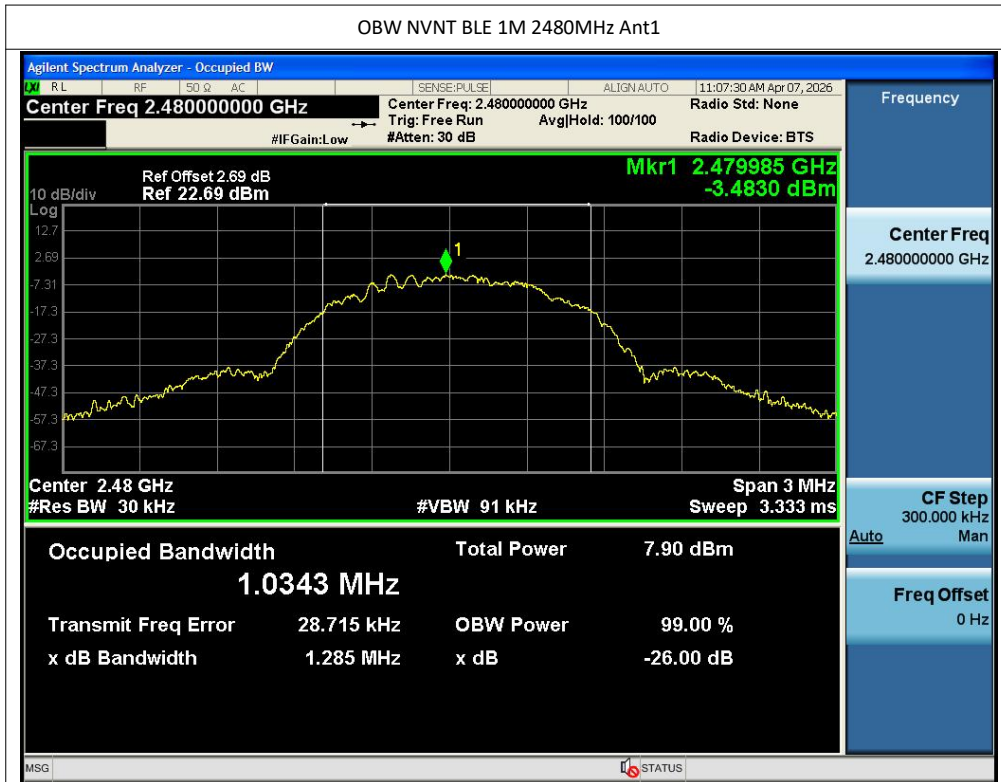
Test Graphs

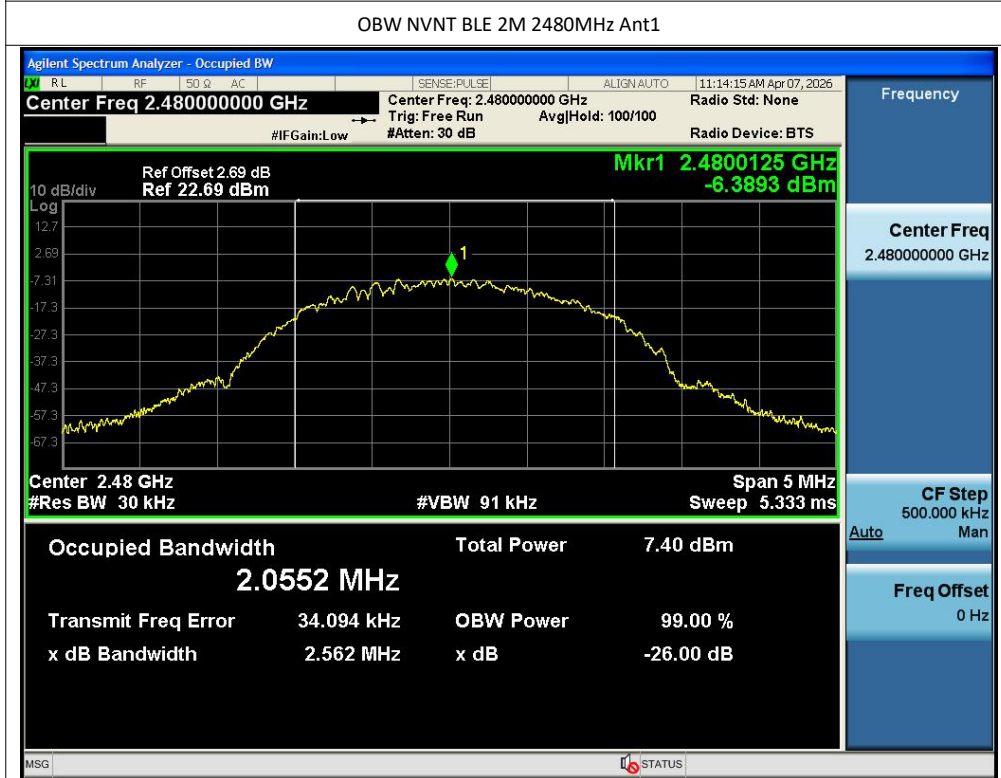
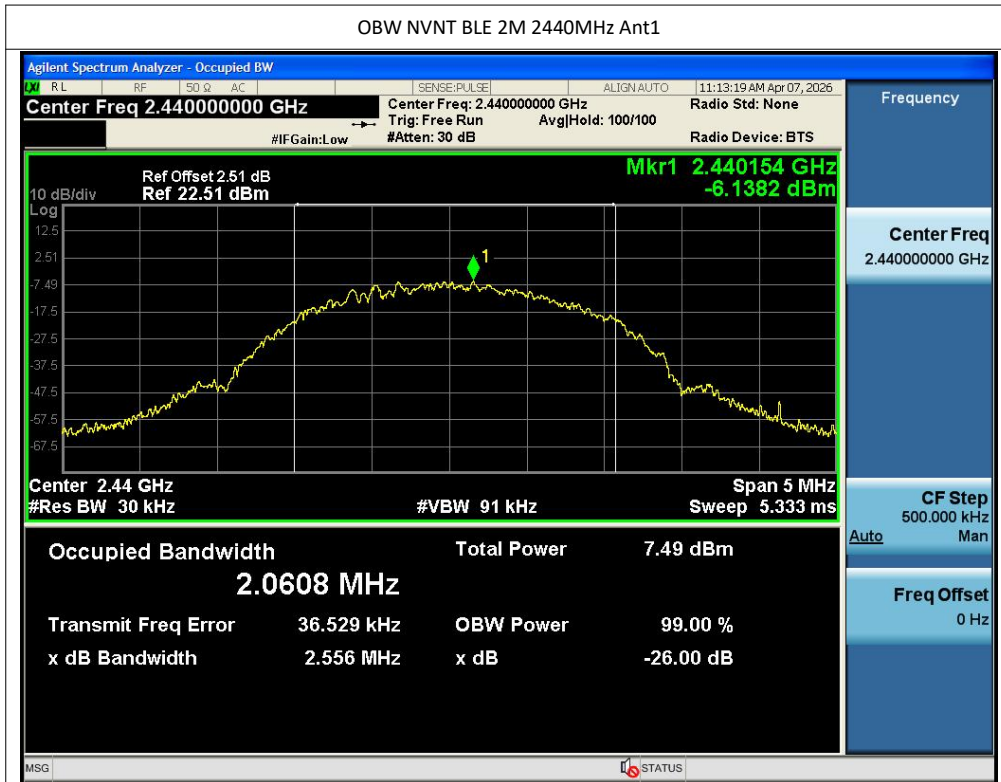
OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1







Band Edge

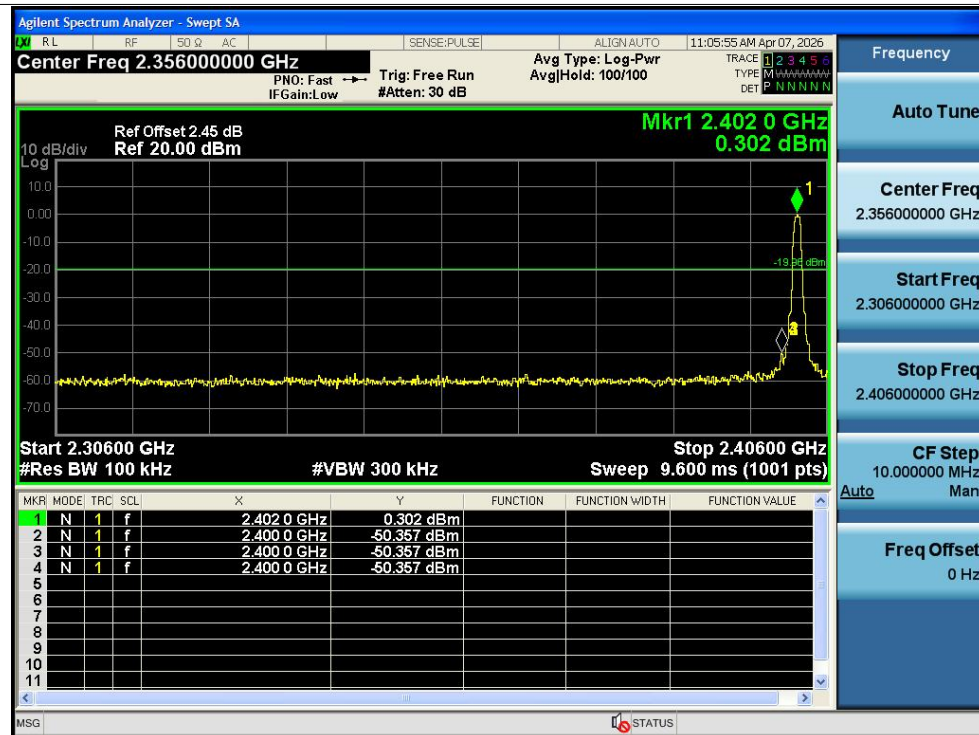
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-50.39	-20	Pass
NVNT	BLE 1M	2480	Ant1	-58.16	-20	Pass
NVNT	BLE 2M	2402	Ant1	-44.65	-20	Pass
NVNT	BLE 2M	2480	Ant1	-55.36	-20	Pass

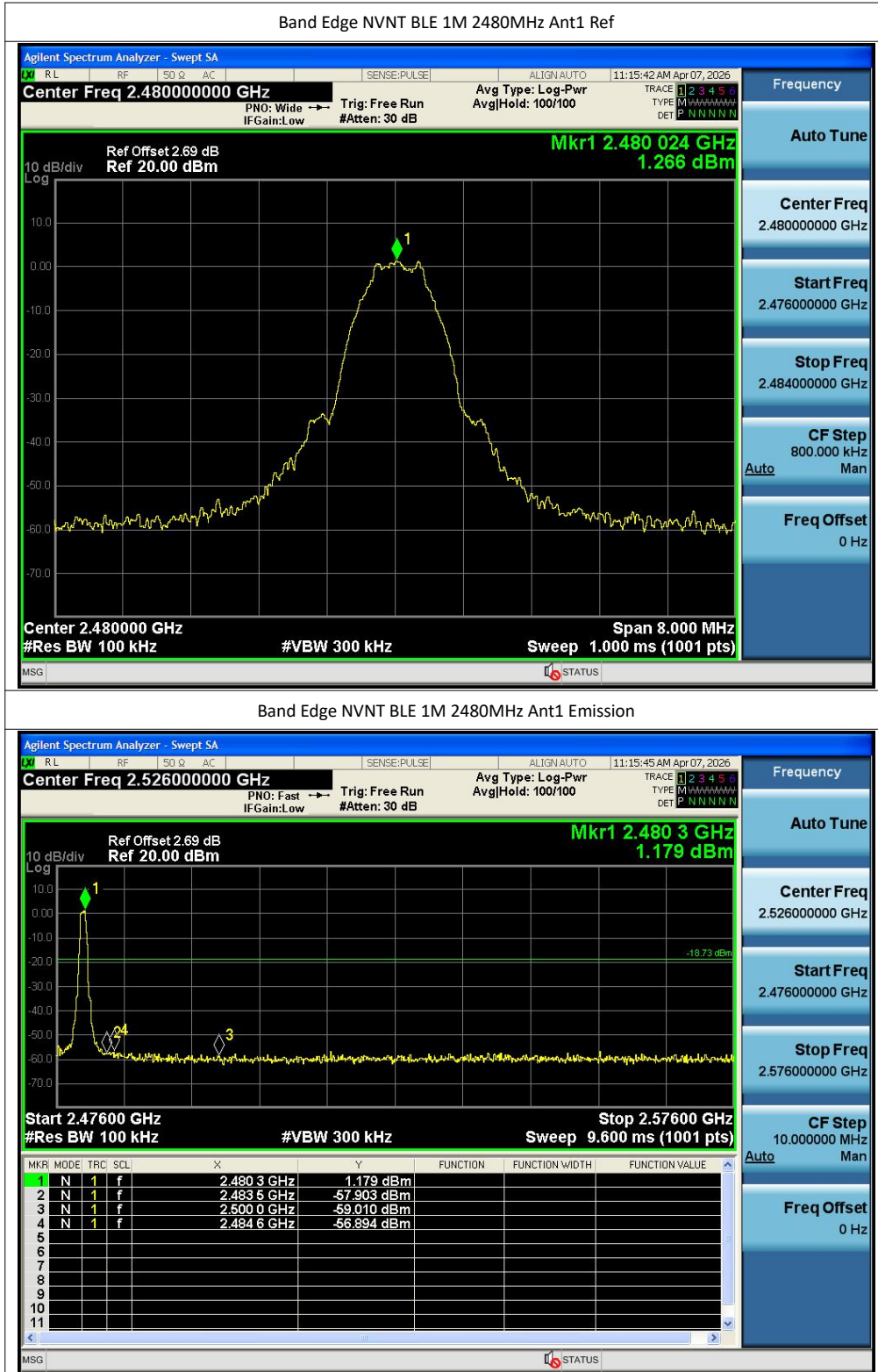
Test Graphs

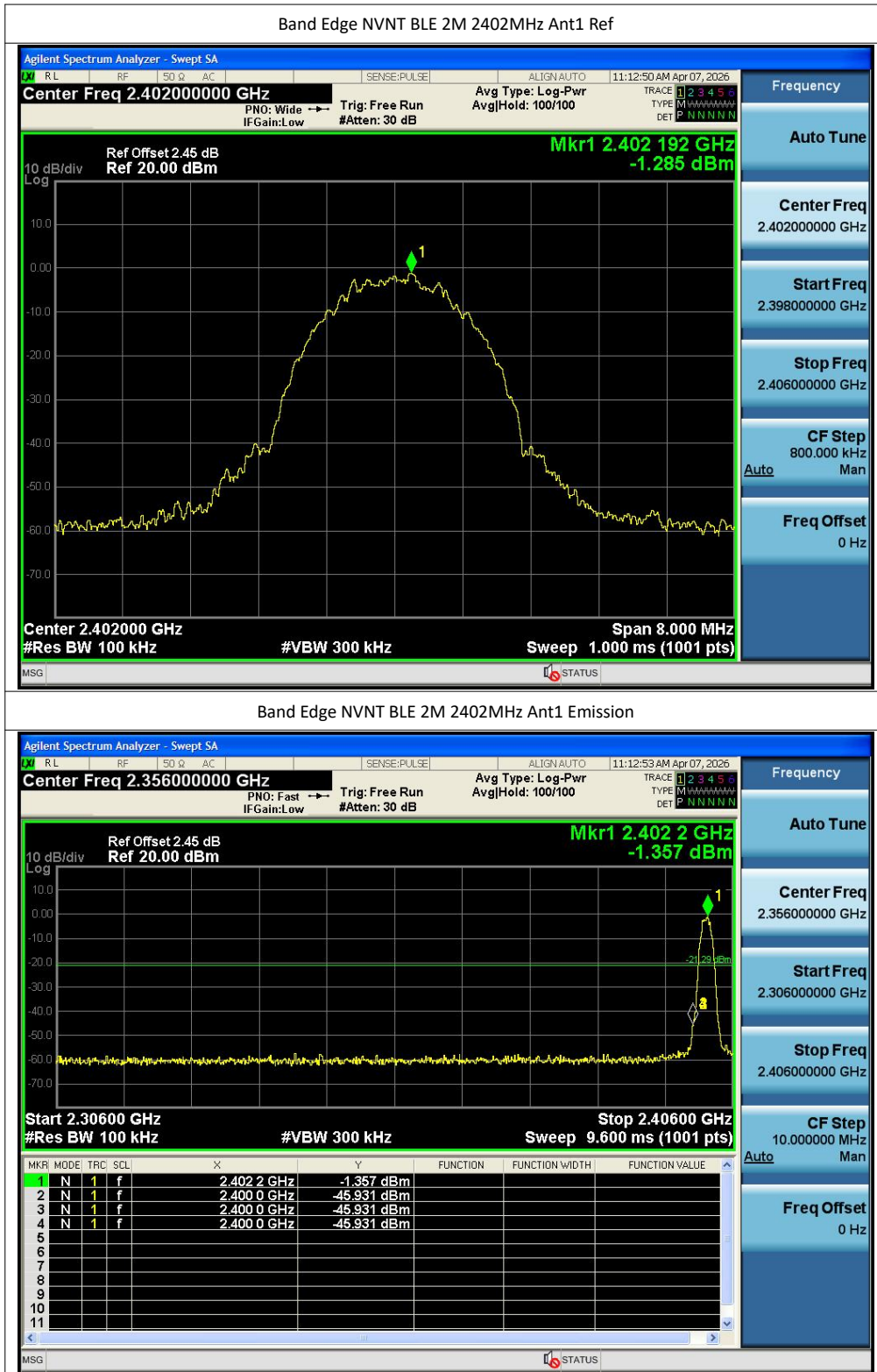
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref

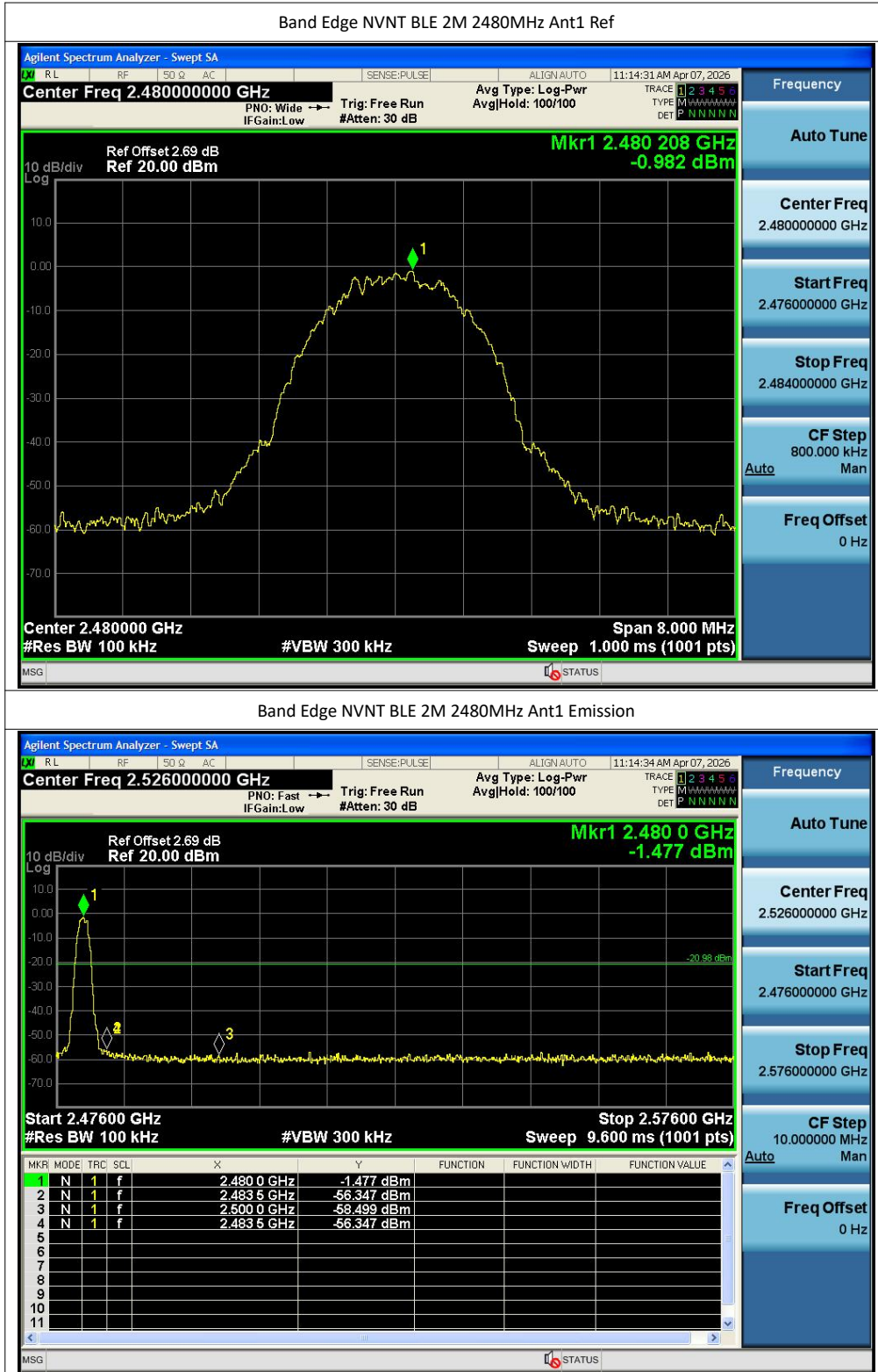


Band Edge NVNT BLE 1M 2402MHz Ant1 Emission









Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/100kHz)	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.24	-15.47	0	-15.47	8	Pass
NVNT	BLE 1M	2440	Ant1	1.29	-13.94	0	-13.94	8	Pass
NVNT	BLE 1M	2480	Ant1	0.49	-14.74	0	-14.74	8	Pass
NVNT	BLE 2M	2402	Ant1	-1.66	-16.89	0	-16.89	8	Pass
NVNT	BLE 2M	2440	Ant1	-1.19	-16.42	0	-16.42	8	Pass
NVNT	BLE 2M	2480	Ant1	-1.42	-16.65	0	-16.65	8	Pass

Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1





