

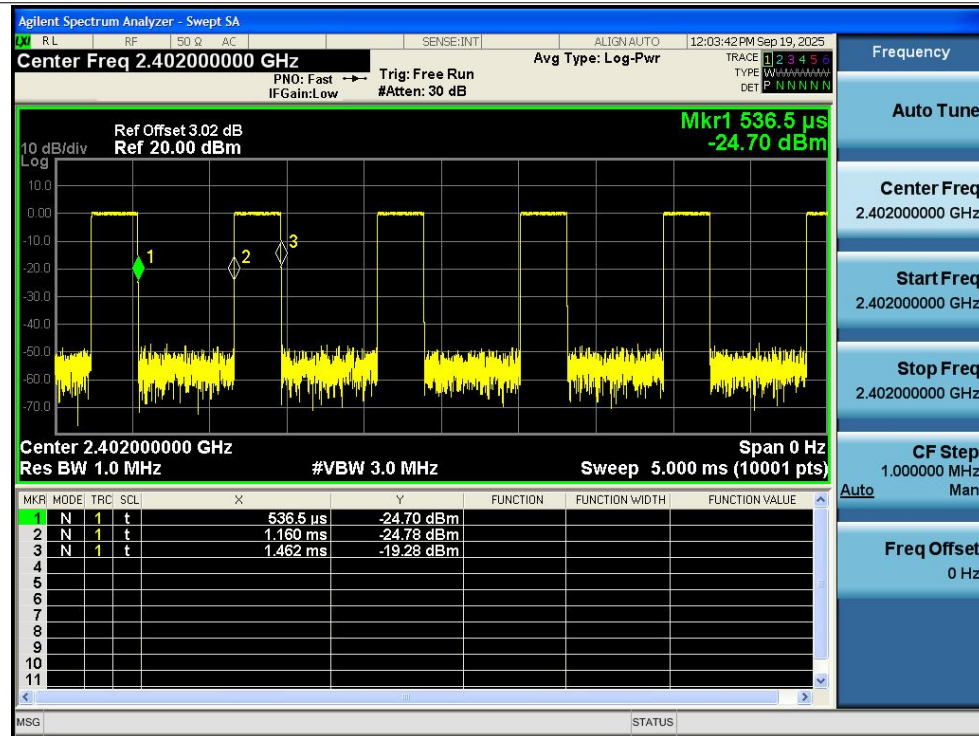
Appendix A BLE

Duty Cycle

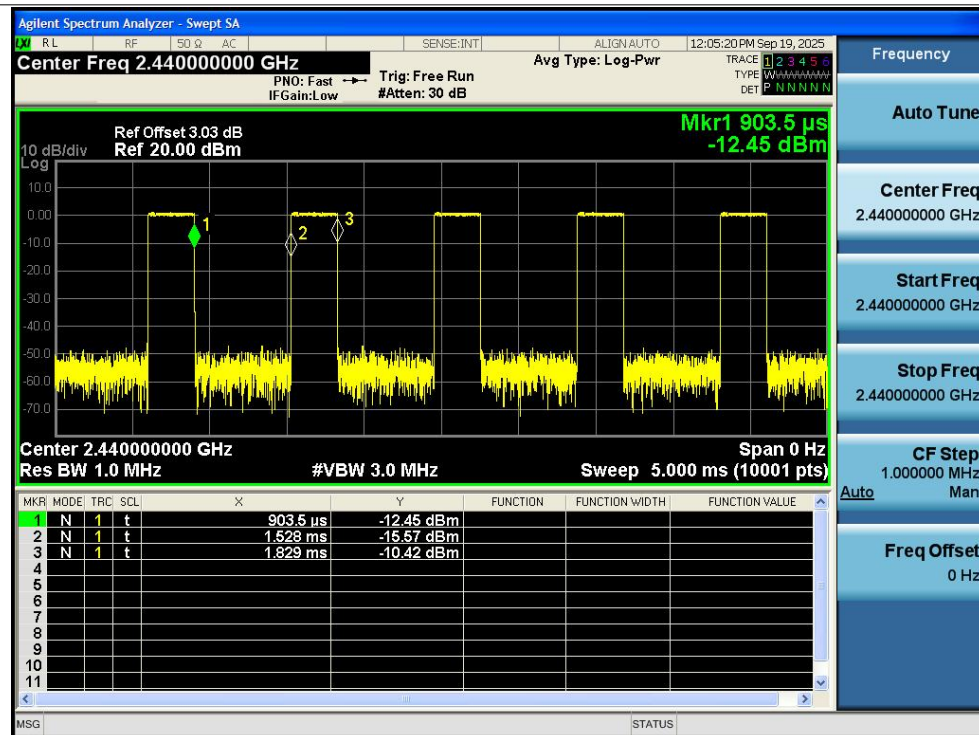
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	32.59	4.87	3.32
NVNT	BLE 1M	2440	Ant1	32.54	4.88	3.32
NVNT	BLE 1M	2480	Ant1	32.54	4.88	3.32
NVNT	BLE 2M	2402	Ant1	16.69	7.78	6.47
NVNT	BLE 2M	2440	Ant1	16.7	7.77	6.47
NVNT	BLE 2M	2480	Ant1	16.7	7.77	6.47

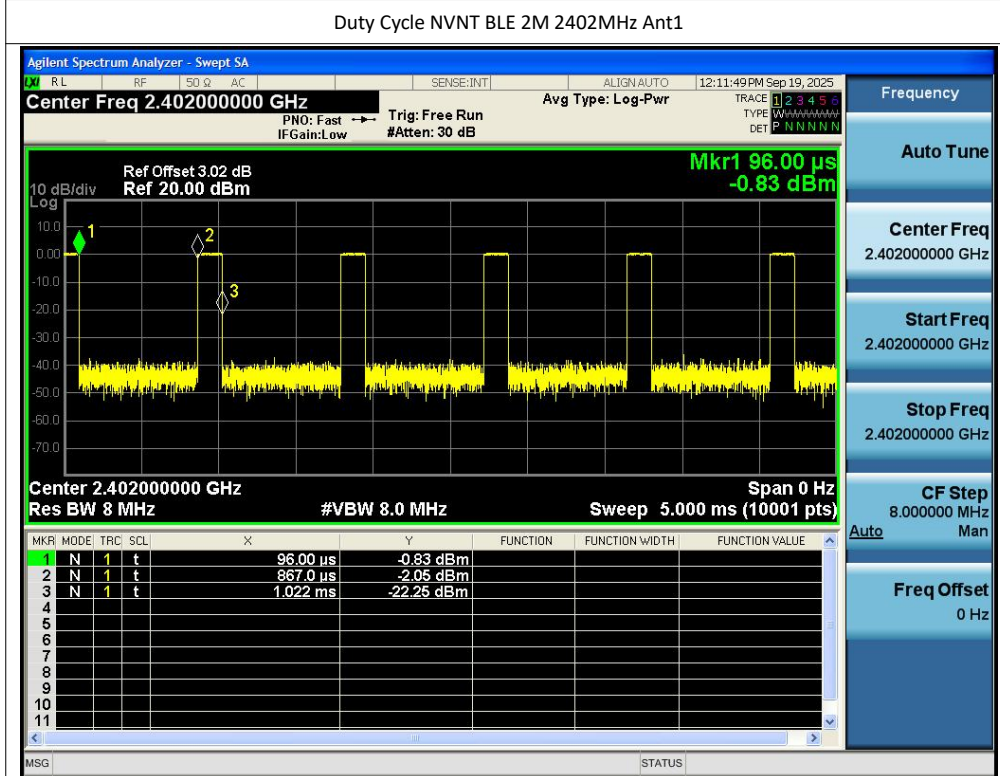
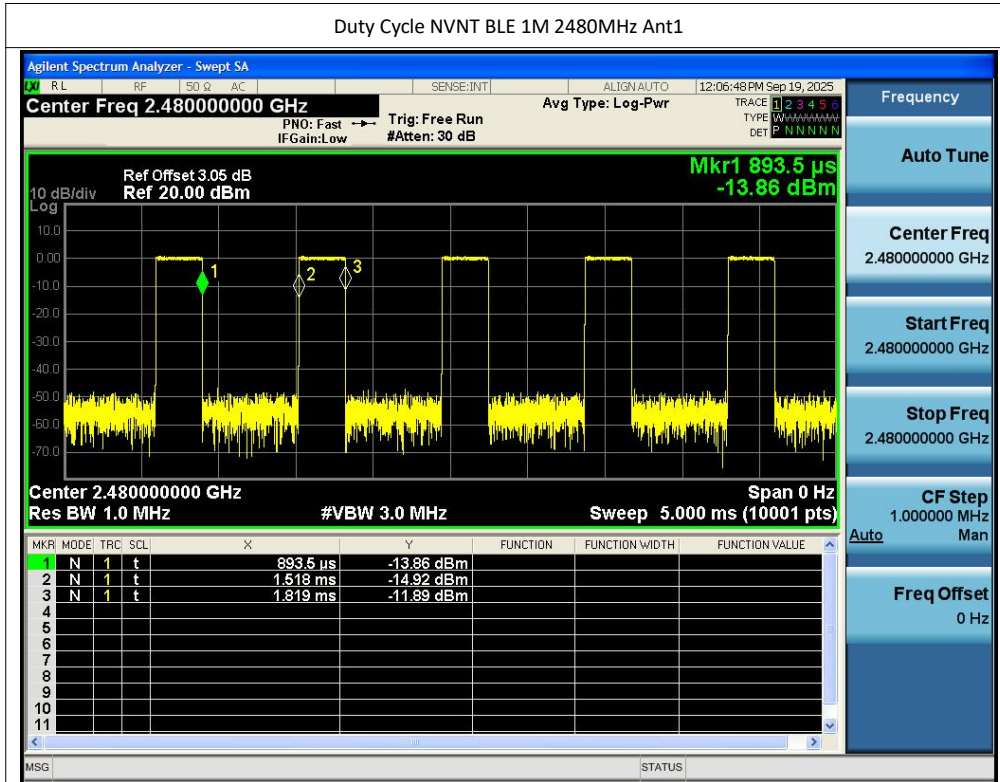
Test Graphs

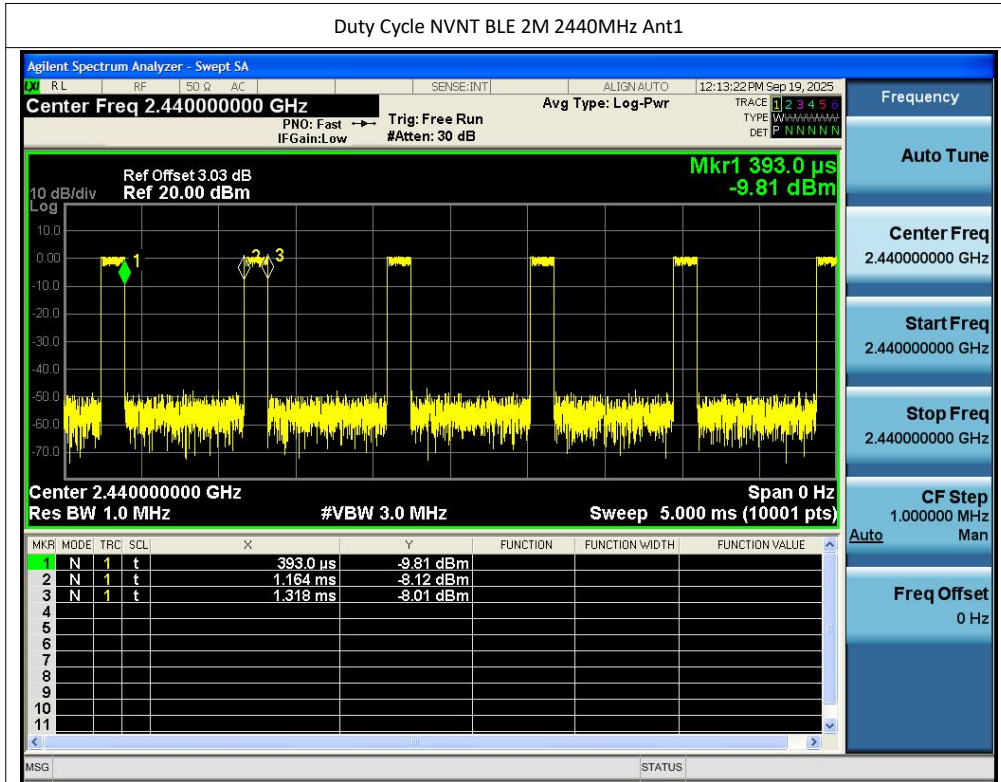
Duty Cycle NVNT BLE 1M 2402MHz Ant1

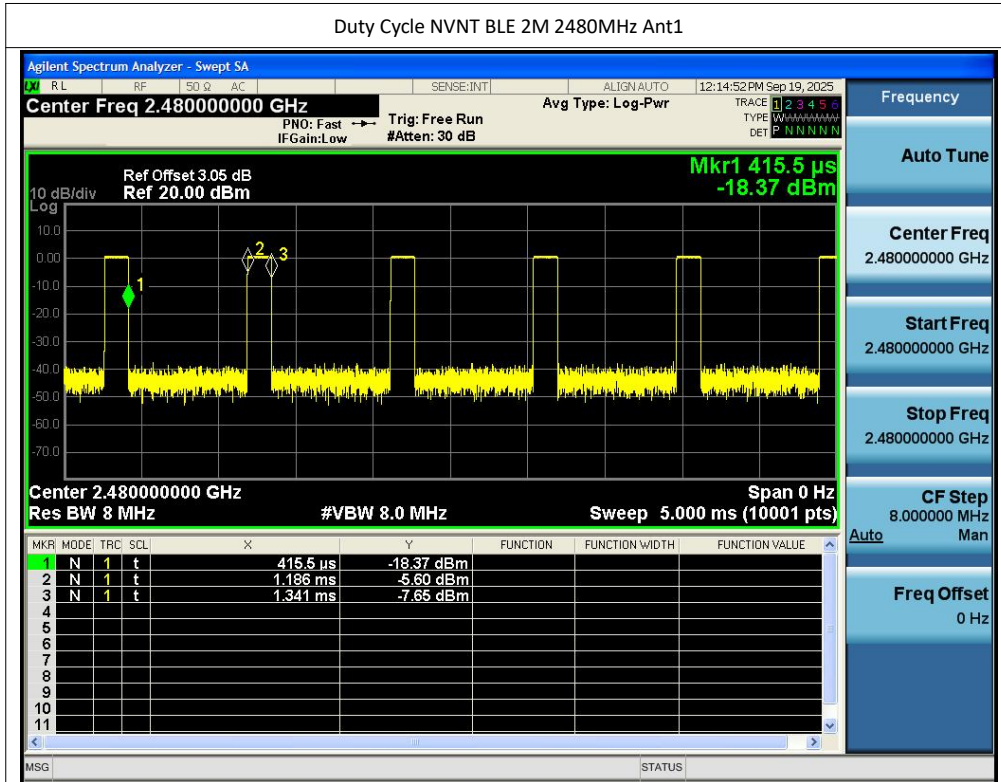


Duty Cycle NVNT BLE 1M 2440MHz Ant1









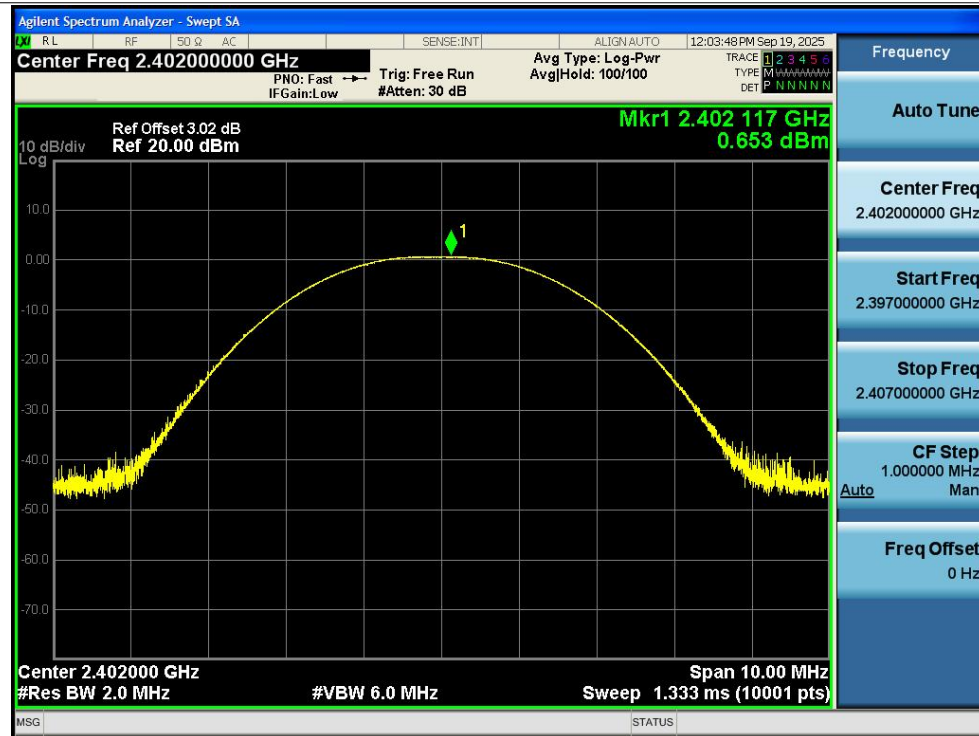


Maximum Conducted Output Power

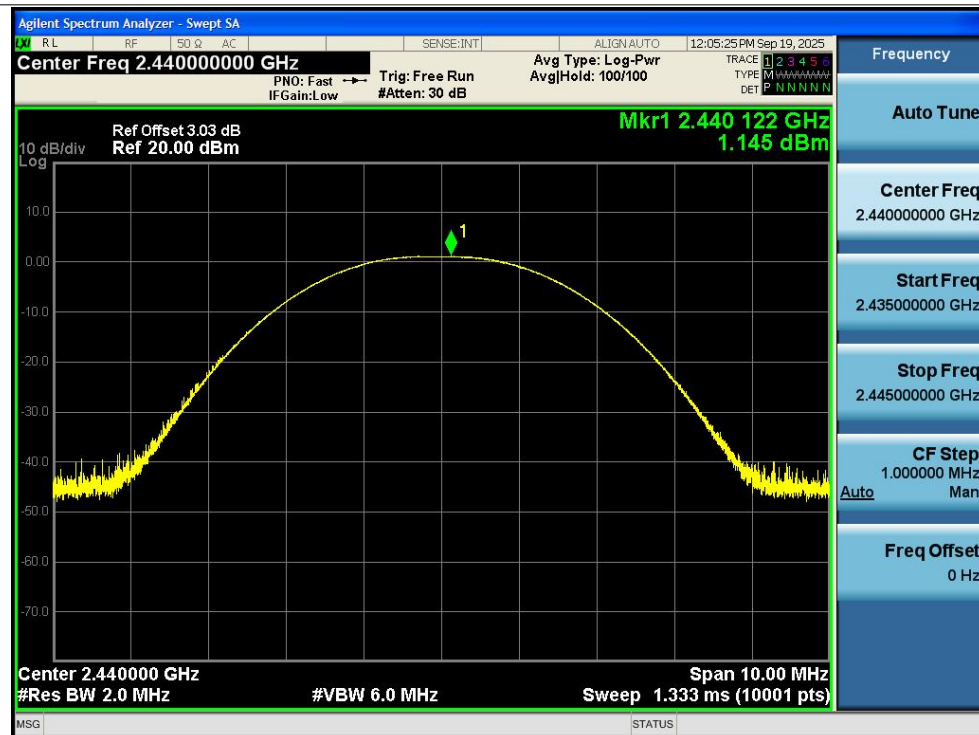
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.65	0	0.65	30	Pass
NVNT	BLE 1M	2440	Ant1	1.15	0	1.15	30	Pass
NVNT	BLE 1M	2480	Ant1	0.81	0	0.81	30	Pass
NVNT	BLE 2M	2402	Ant1	0.37	0	0.37	30	Pass
NVNT	BLE 2M	2440	Ant1	1.02	0	1.02	30	Pass
NVNT	BLE 2M	2480	Ant1	0.75	0	0.75	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	0.671	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6914	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.7065	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.2	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.189	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.179	0.5	Pass

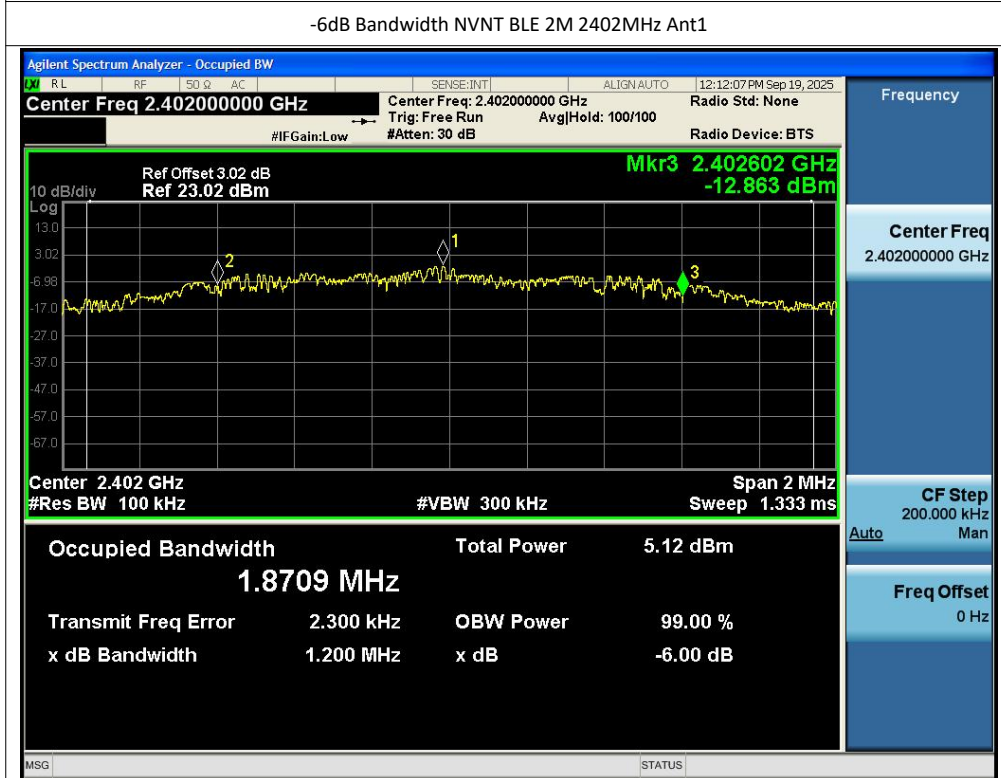
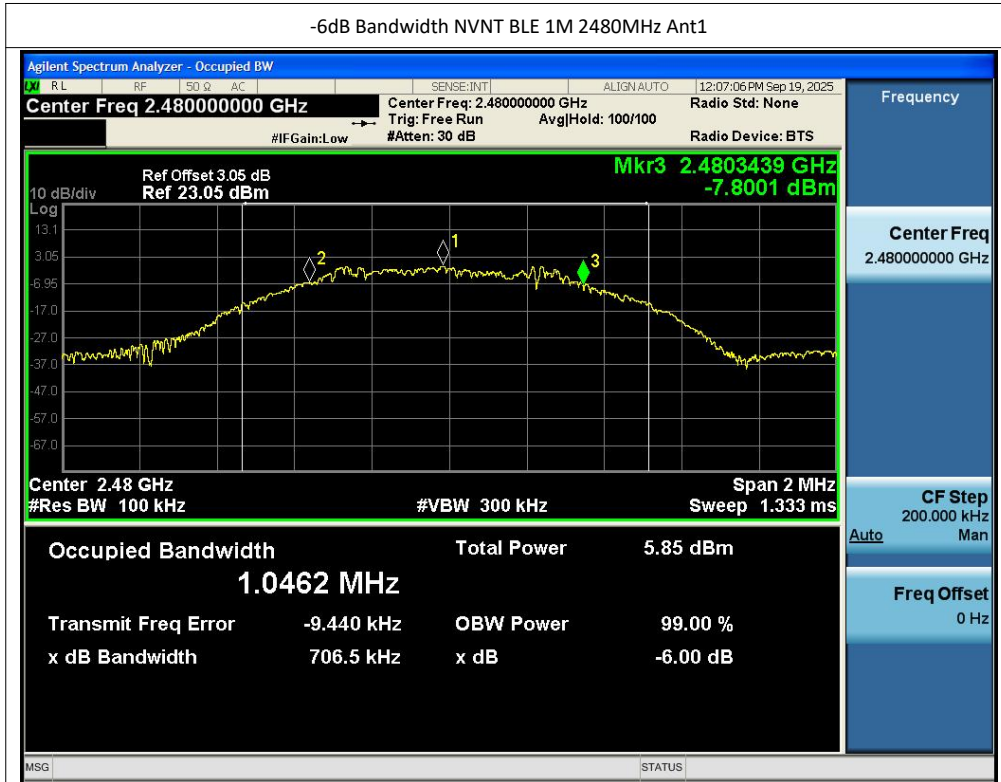
Test Graphs

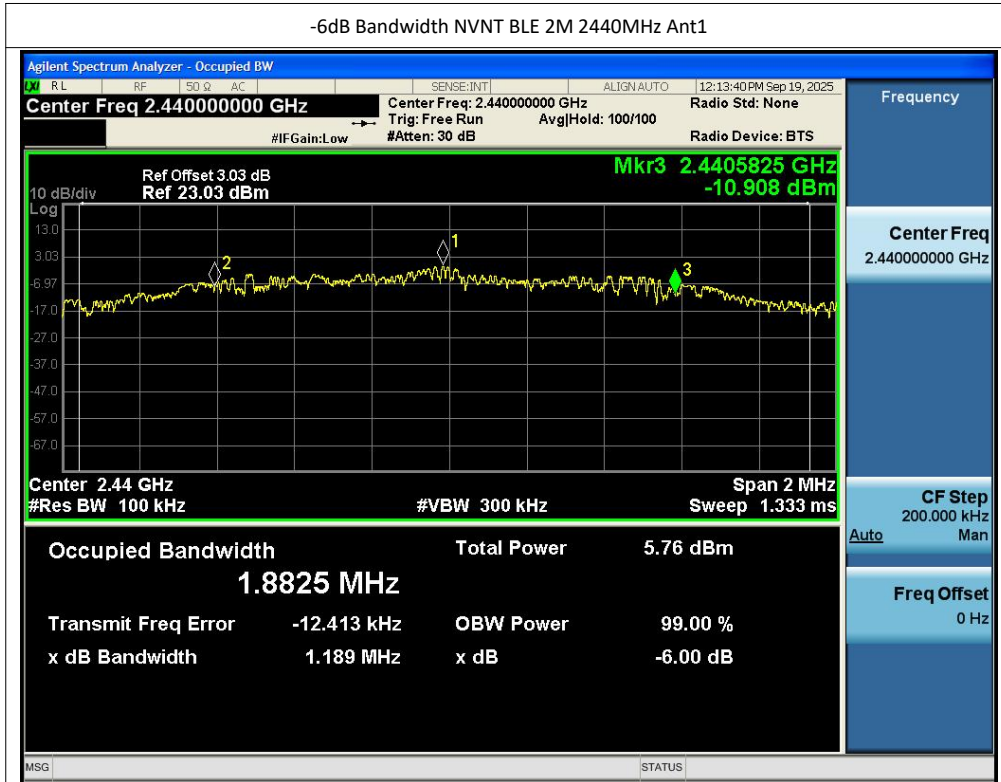
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1

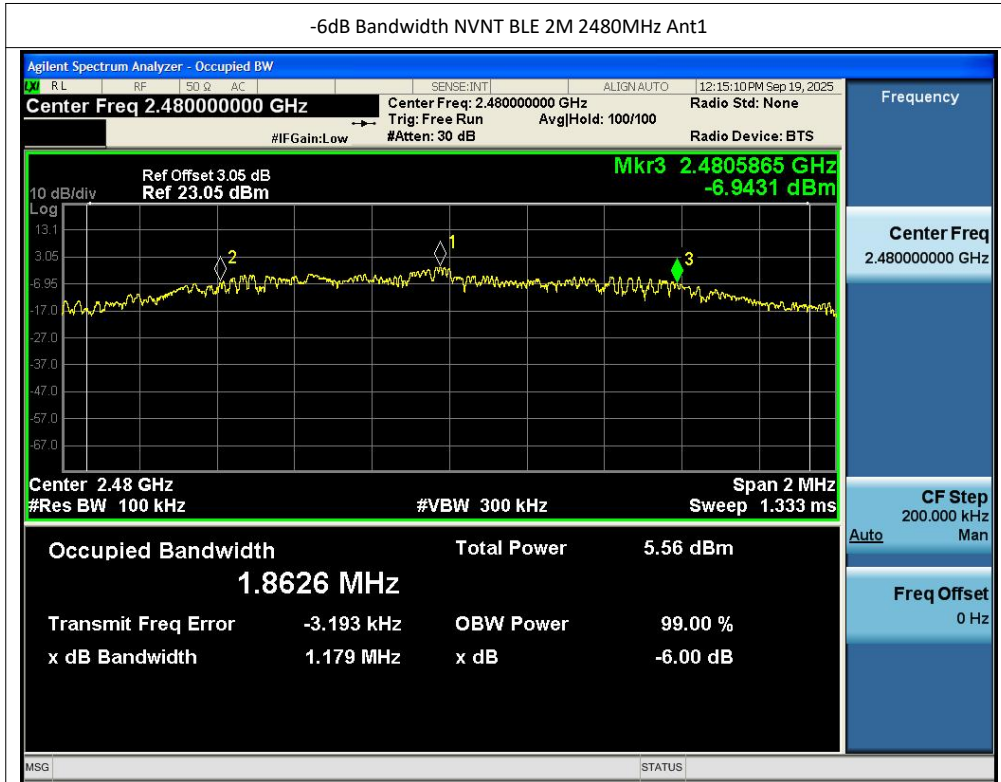


-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1









Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.0346
NVNT	BLE 1M	2440	Ant1	1.036
NVNT	BLE 1M	2480	Ant1	1.0301
NVNT	BLE 2M	2402	Ant1	2.0239
NVNT	BLE 2M	2440	Ant1	2.0097
NVNT	BLE 2M	2480	Ant1	2.0416

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/100kHz)	Duty Factor (dB)	Total PSD (dBm/100kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.48	0	-0.48	8	Pass
NVNT	BLE 1M	2440	Ant1	-0.03	0	-0.03	8	Pass
NVNT	BLE 1M	2480	Ant1	-0.4	0	-0.4	8	Pass
NVNT	BLE 2M	2402	Ant1	-1.18	0	-1.18	8	Pass
NVNT	BLE 2M	2440	Ant1	-0.48	0	-0.48	8	Pass
NVNT	BLE 2M	2480	Ant1	-0.78	0	-0.78	8	Pass

Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1









Band Edge

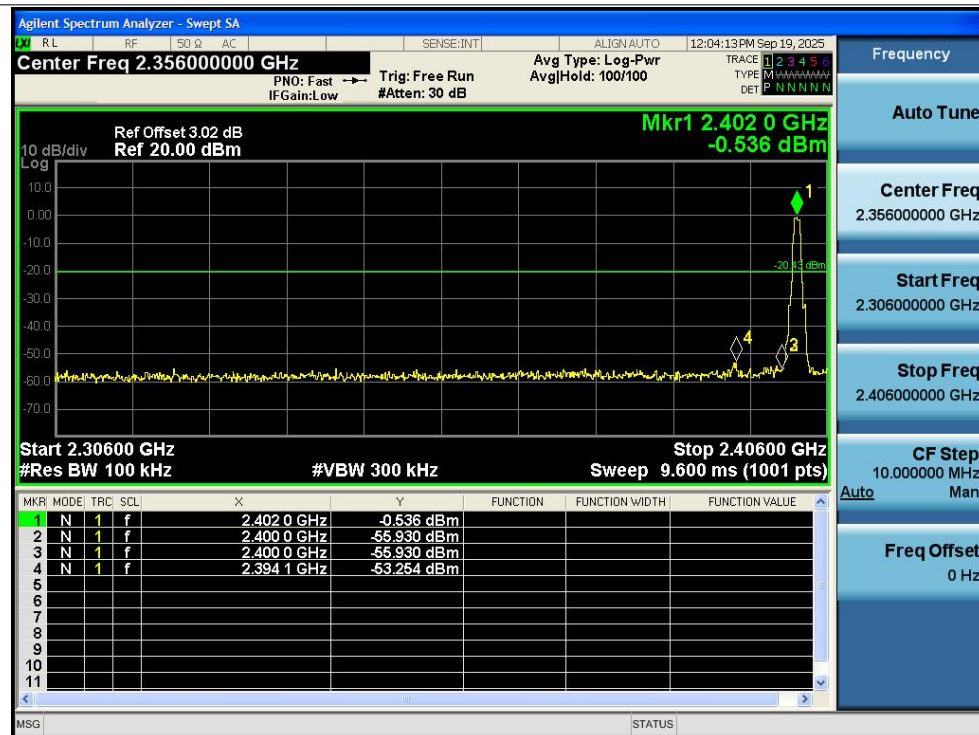
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.82	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.4	-20	Pass
NVNT	BLE 2M	2402	Ant1	-30.25	-20	Pass
NVNT	BLE 2M	2480	Ant1	-52.98	-20	Pass

Test Graphs

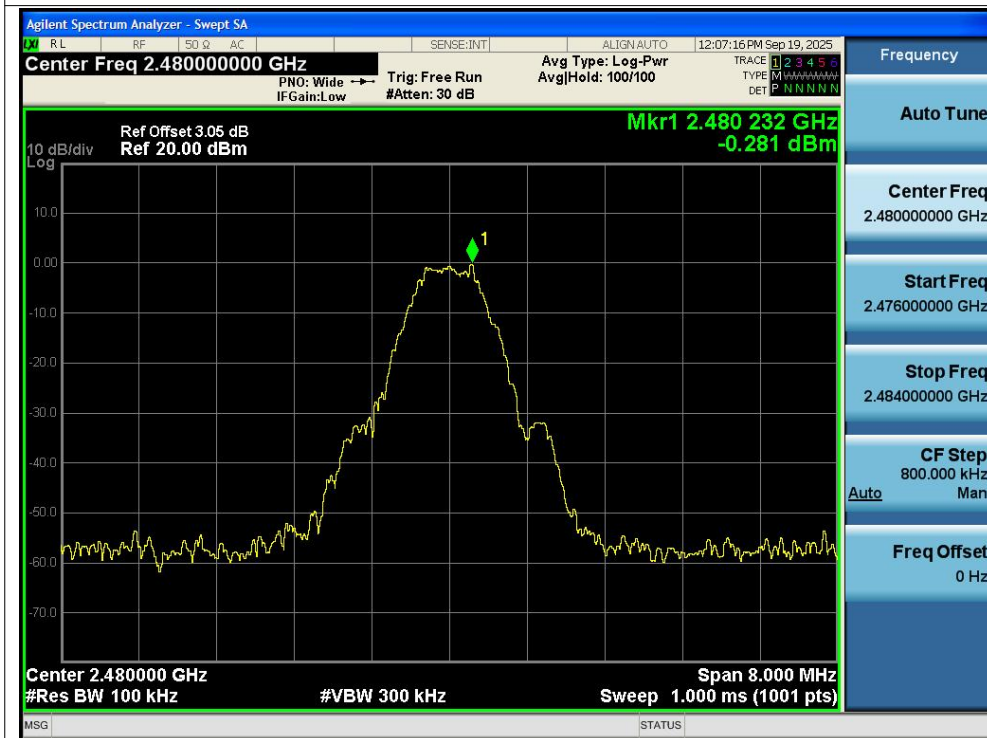
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



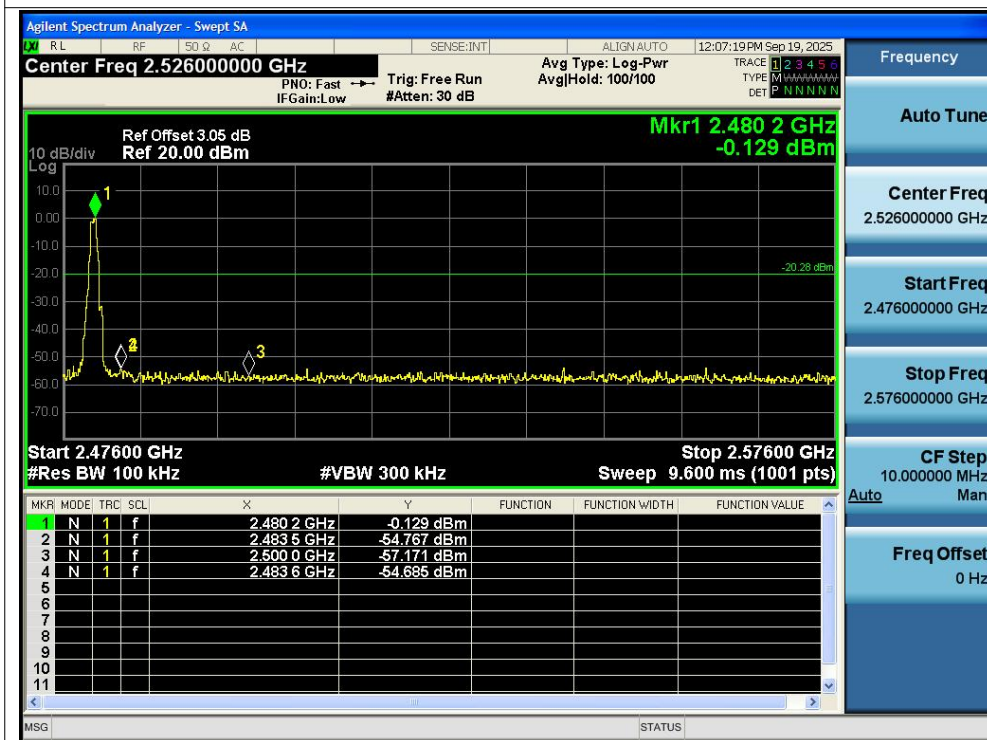
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission

