

Appendix A

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Final settingFor VBW (kHz)
NVNT	BLE 1M	2402	Ant1	0.38	0.58	65.52	1.84	2.66	1
NVNT	BLE 1M	2440	Ant1	0.38	0.58	65.52	1.84	2.66	1
NVNT	BLE 1M	2480	Ant1	0.38	0.58	65.52	1.84	2.66	1

Maximum Conducted Output Power

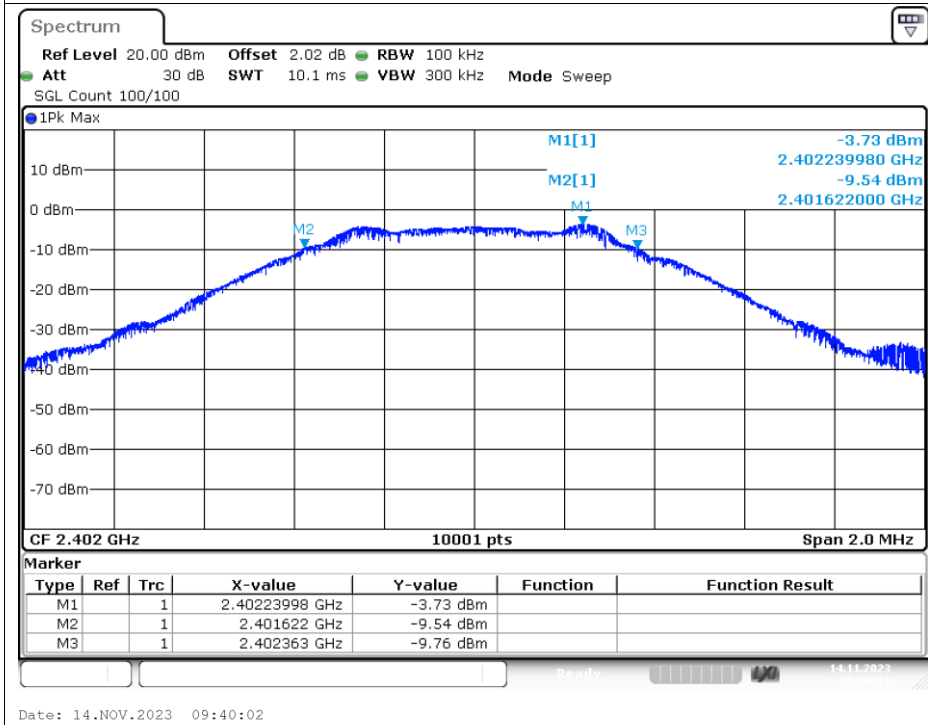
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-4.26	1.84	-2.42	30	0.16	<=36.02	Pass
NVNT	BLE 1M	2440	Ant1	-3.77	1.84	-1.93	30	0.65	<=36.02	Pass
NVNT	BLE 1M	2480	Ant1	-3.96	1.84	-2.12	30	0.46	<=36.02	Pass
Note1: Antenna Gain: 2.58dBi; Note2: E.I.R.P = Measured Power + Antenna Gain										

-6dB Bandwidth

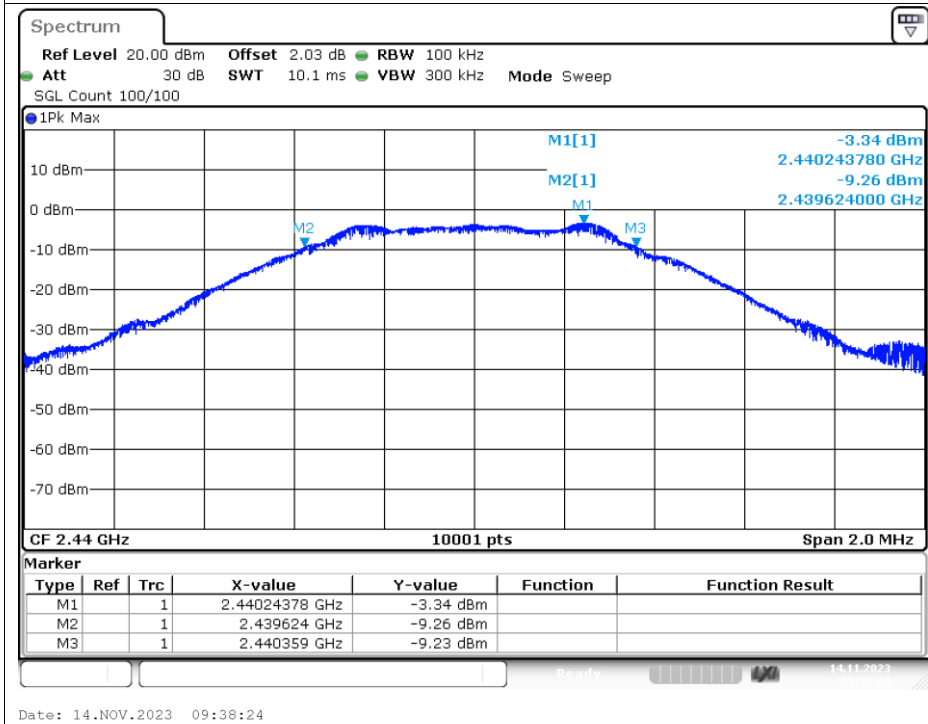
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.741	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.735	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.733	0.5	Pass

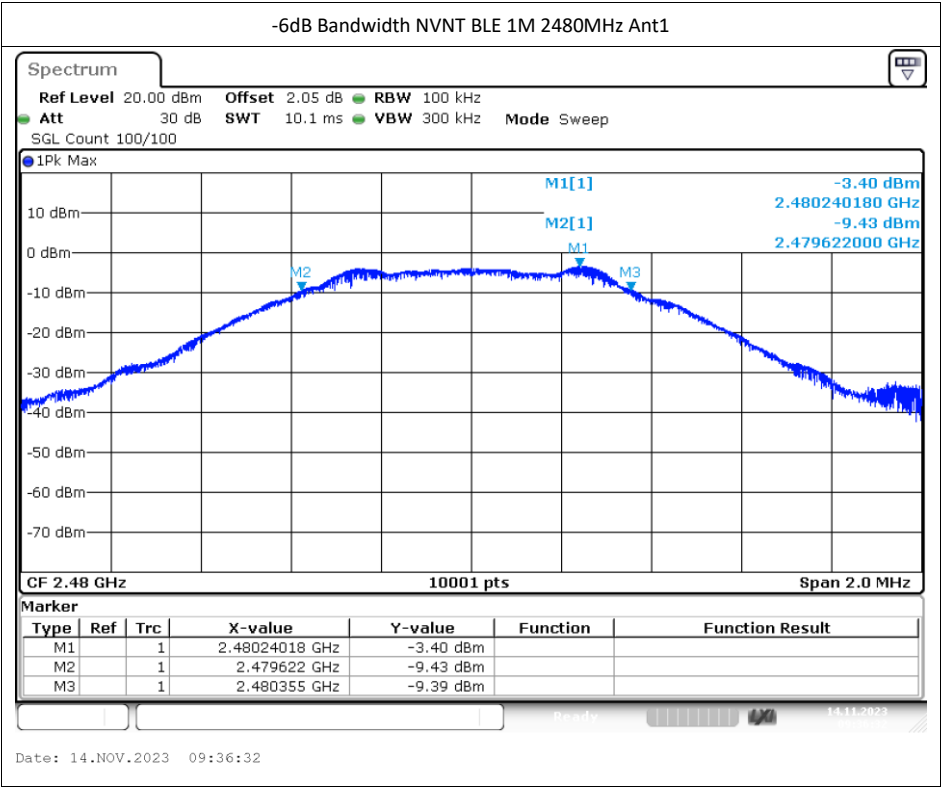
Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



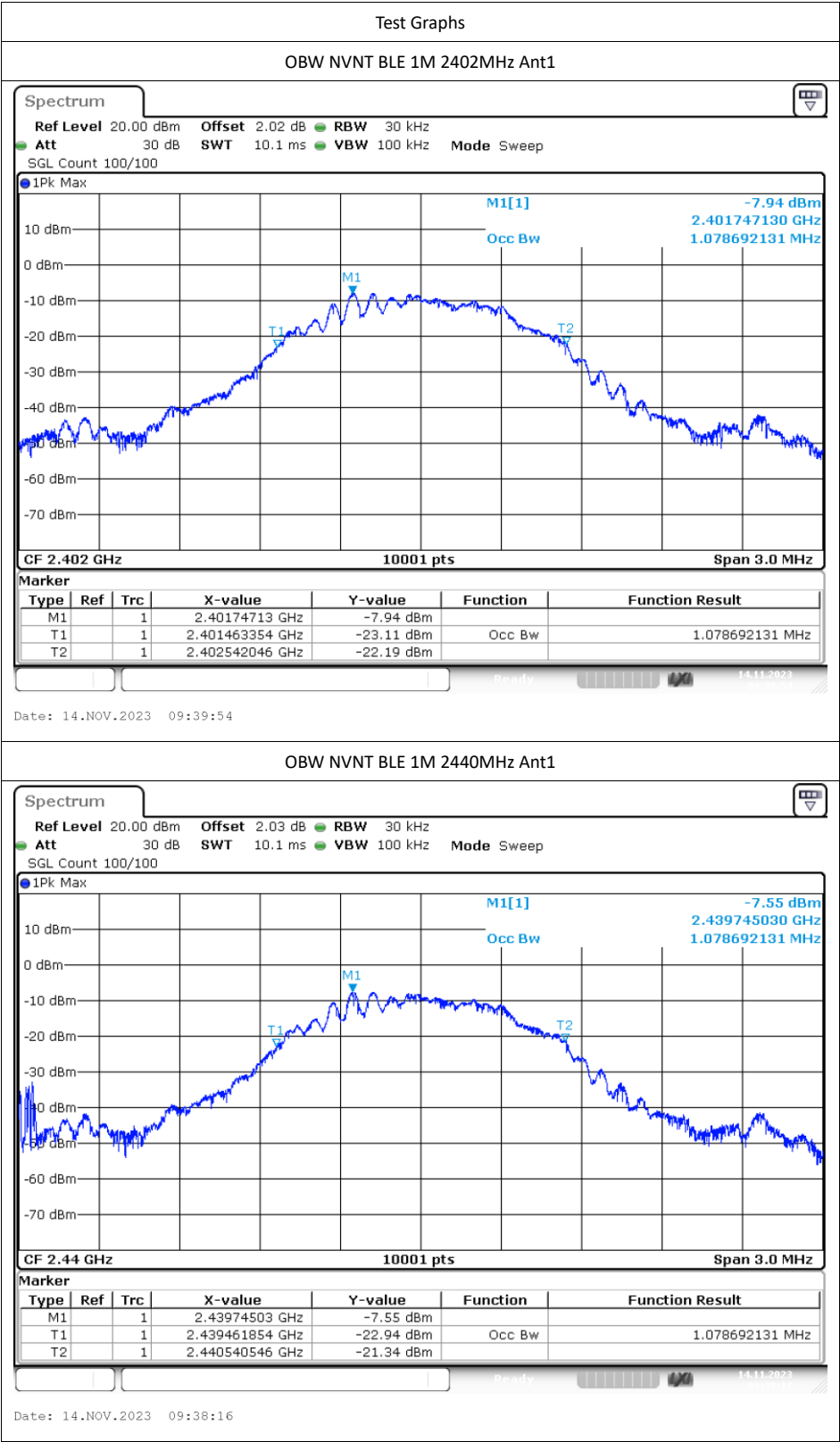
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

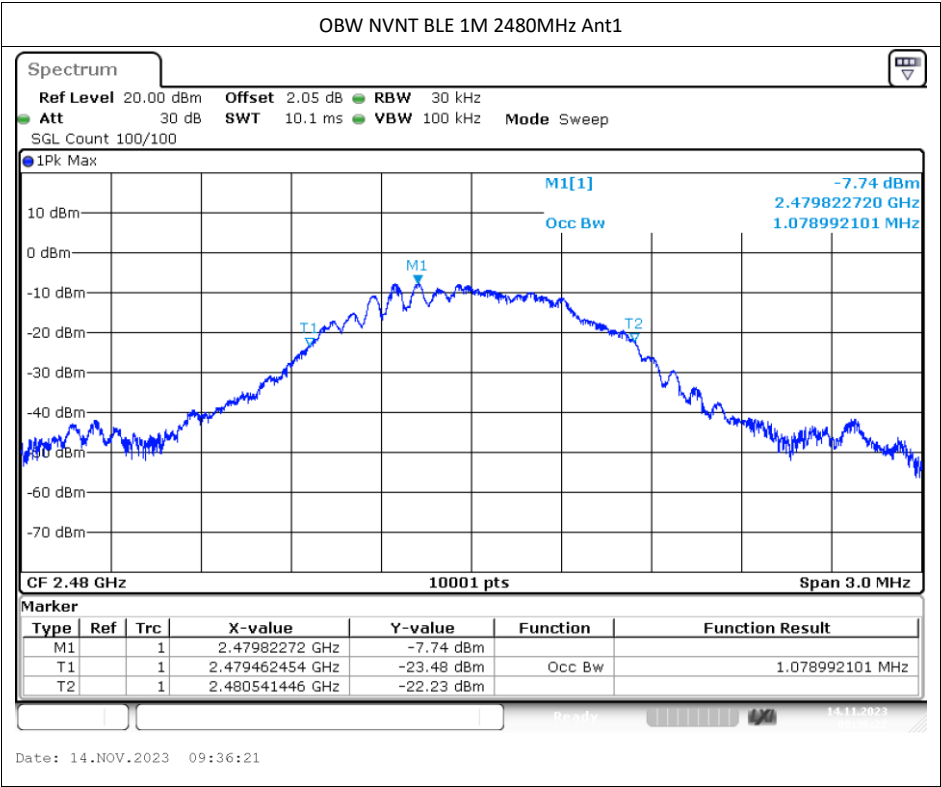




Occupied Channel Bandwidth

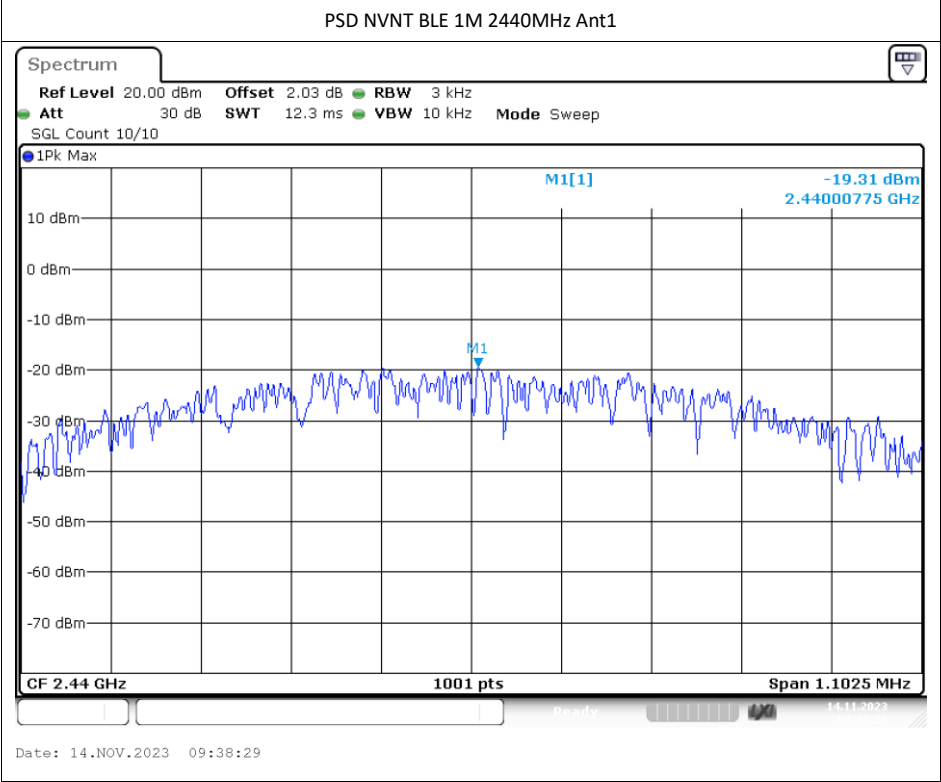
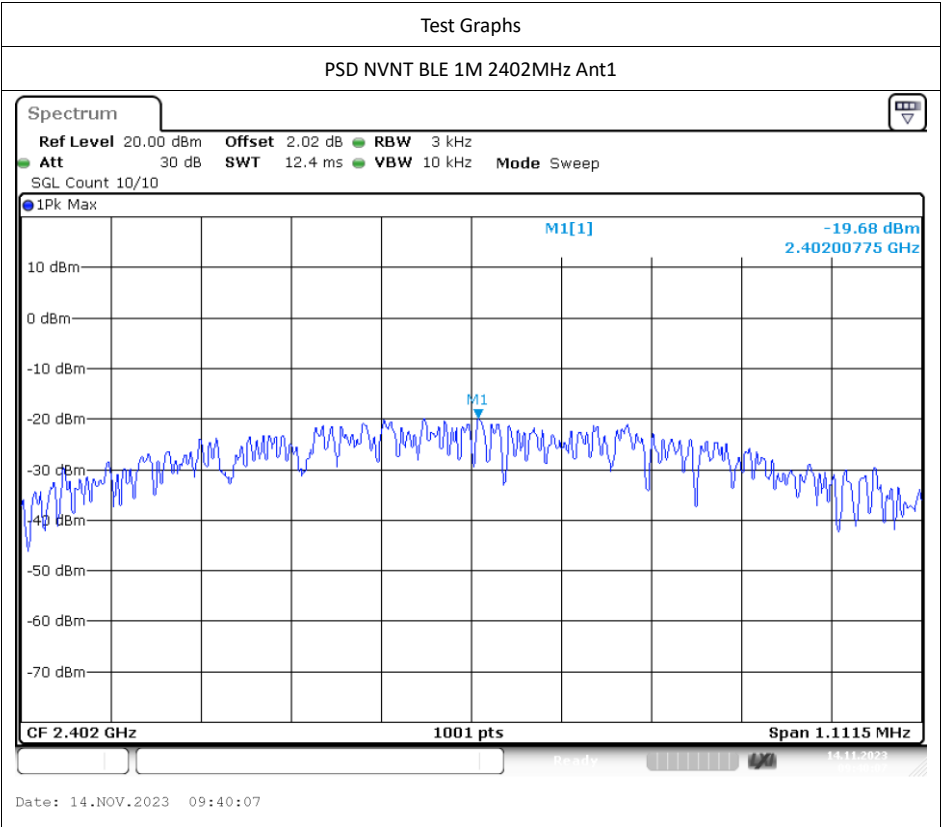
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.079
NVNT	BLE 1M	2440	Ant1	1.079
NVNT	BLE 1M	2480	Ant1	1.079

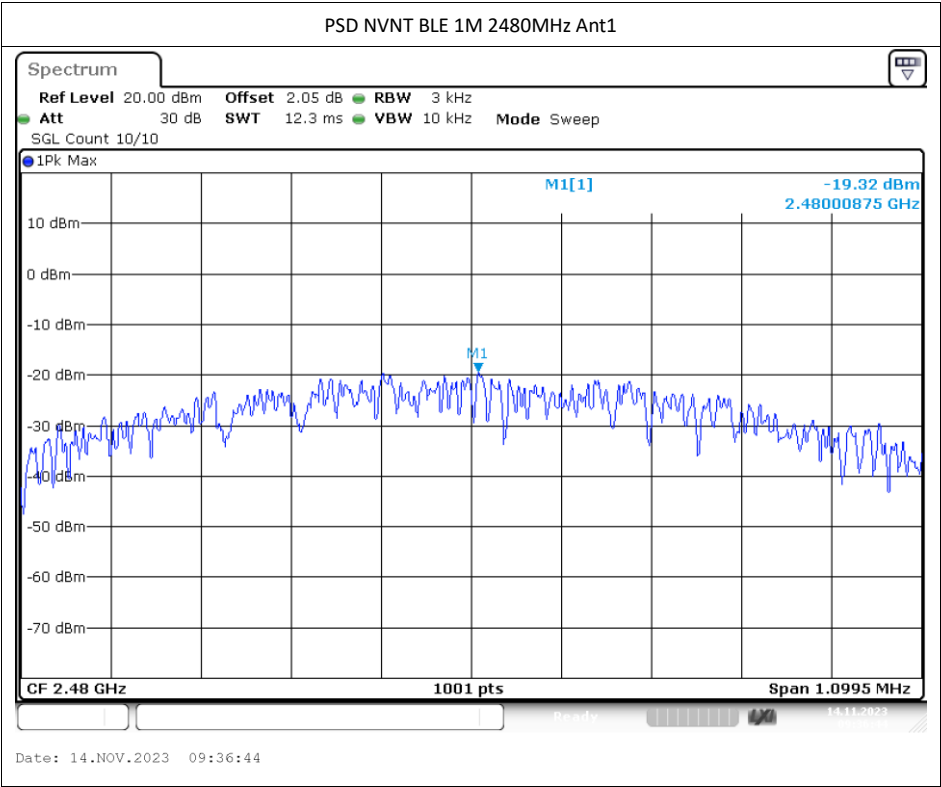




Maximum Power Spectral Density Level

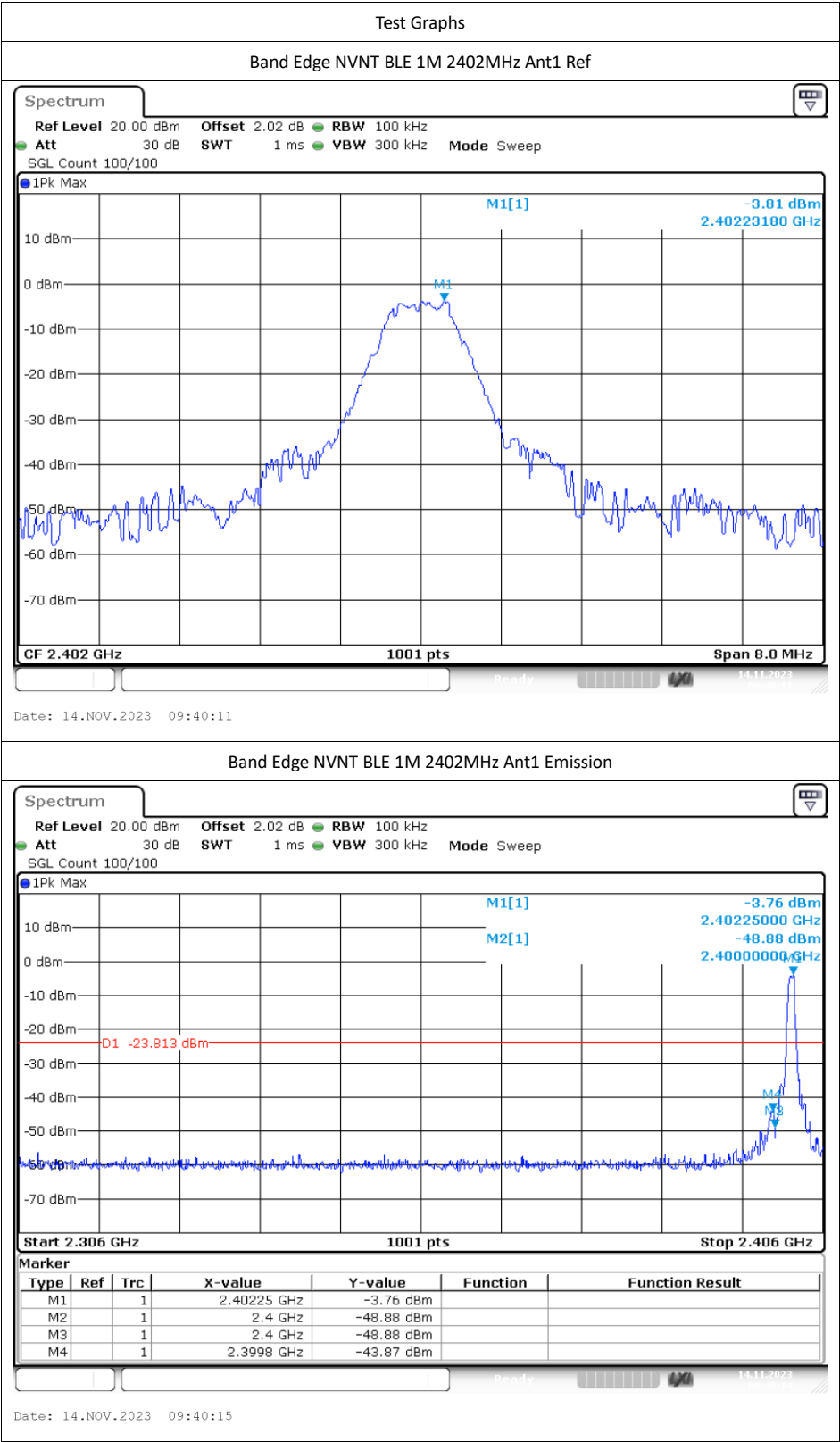
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-19.68	0	-19.68	8	Pass
NVNT	BLE 1M	2440	Ant1	-19.31	0	-19.31	8	Pass
NVNT	BLE 1M	2480	Ant1	-19.32	0	-19.32	8	Pass



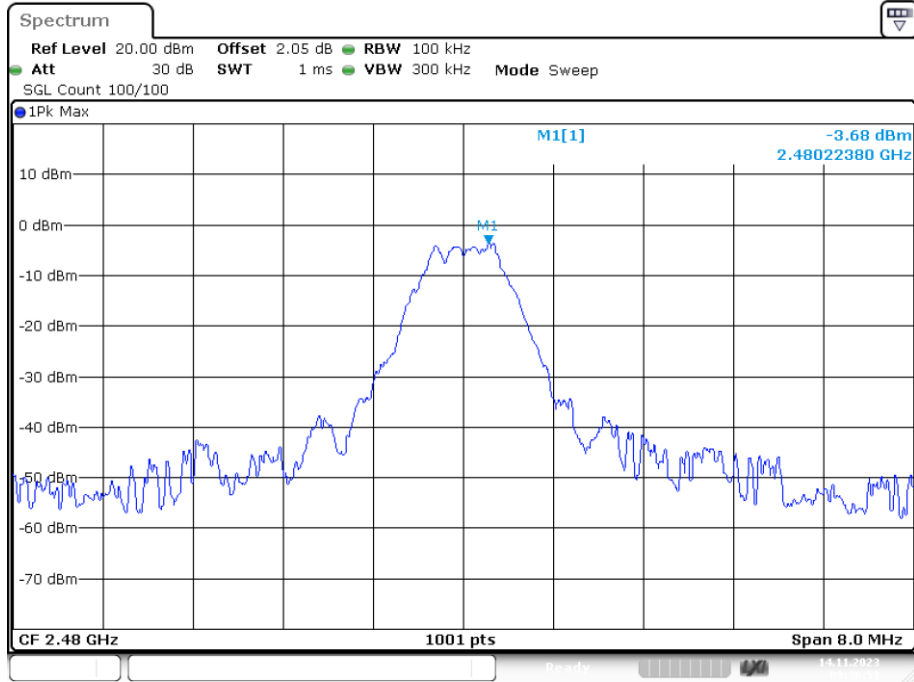


Band Edge

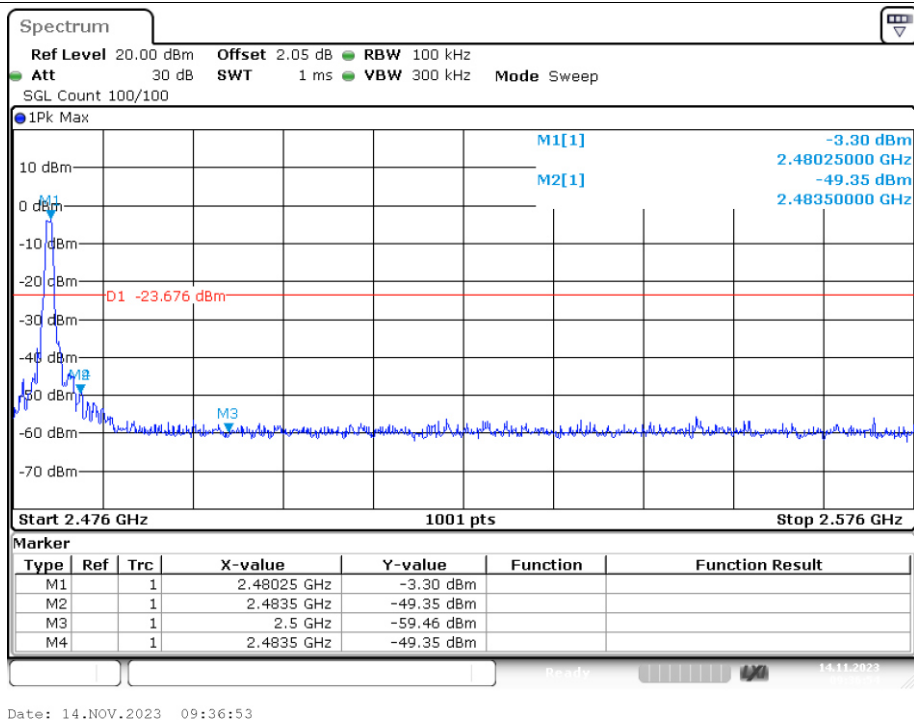
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-40.06	-20	Pass
NVNT	BLE 1M	2480	Ant1	-45.66	-20	Pass



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission

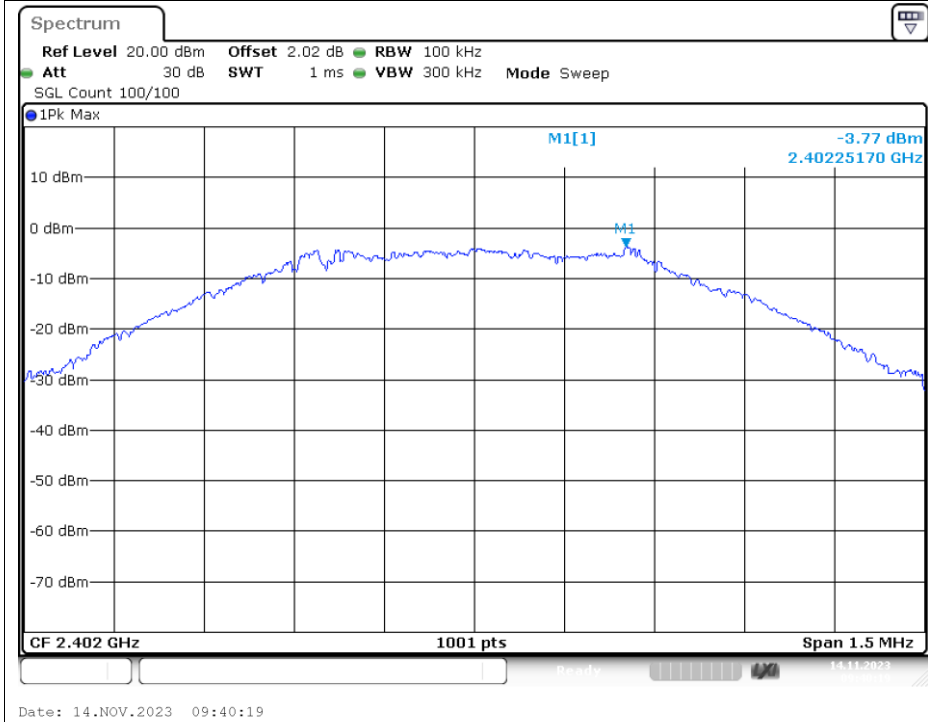


Conducted RF Spurious Emission

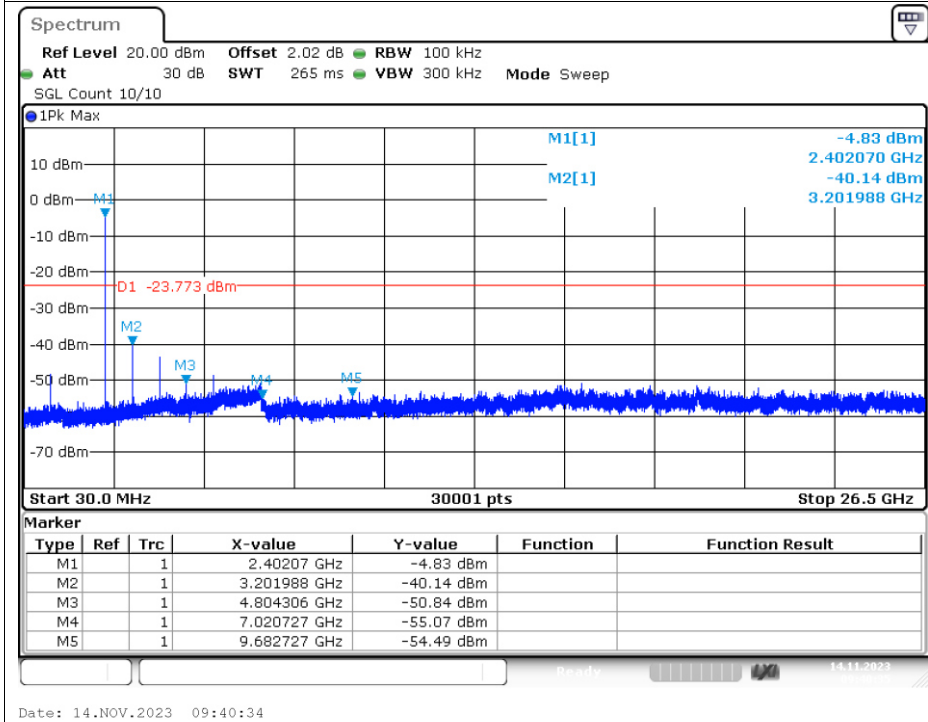
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-36.37	-20	Pass
NVNT	BLE 1M	2440	Ant1	-36.93	-20	Pass
NVNT	BLE 1M	2480	Ant1	-38.61	-20	Pass

Test Graphs

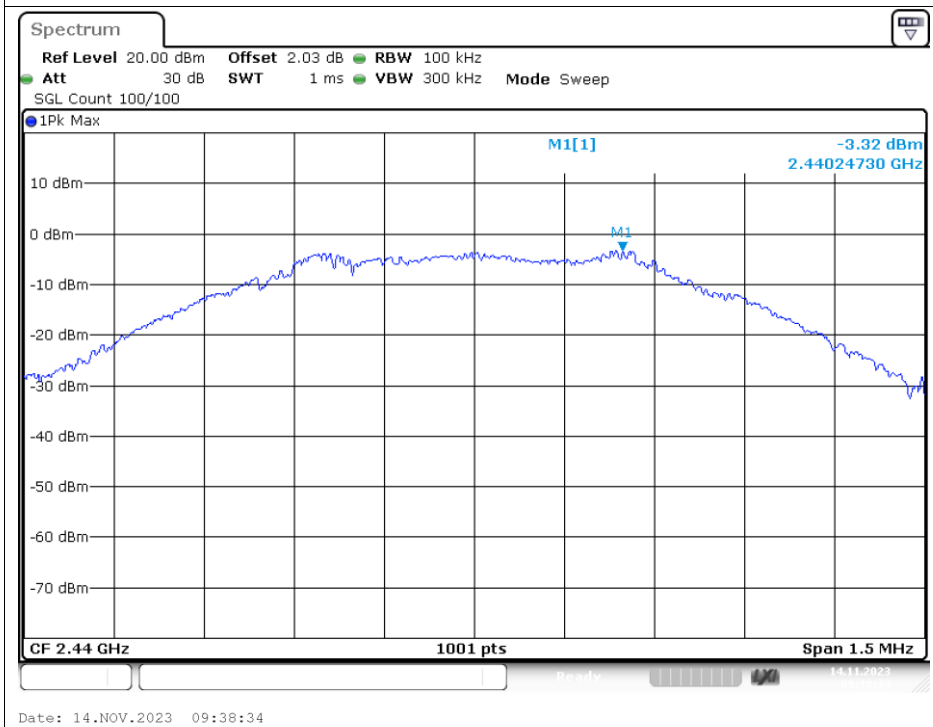
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



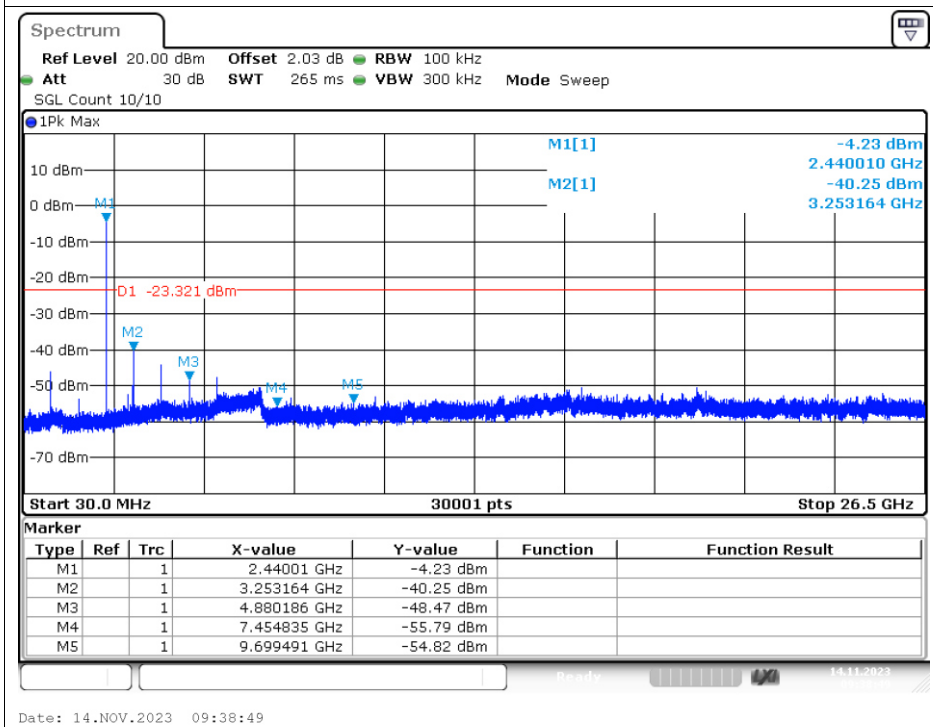
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



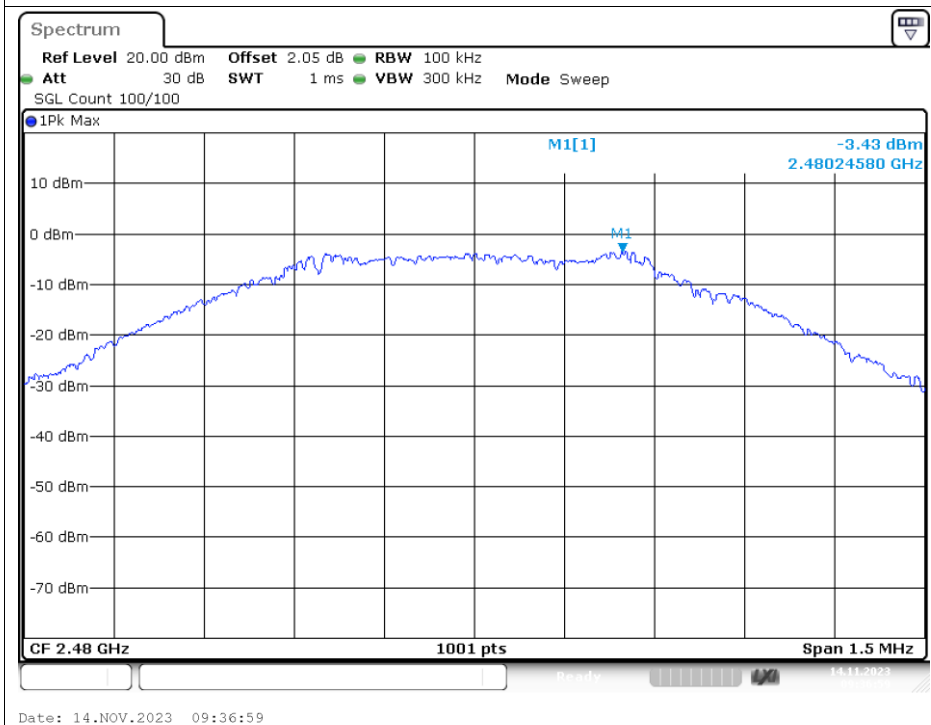
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission

