

FCC ID :2BCR5-NEONEXTREME

RF Test Data

Duty Cycle 2

Maximum Peak Conducted Output Power 5

-6dB Bandwidth 8

Occupied Channel Bandwidth 11

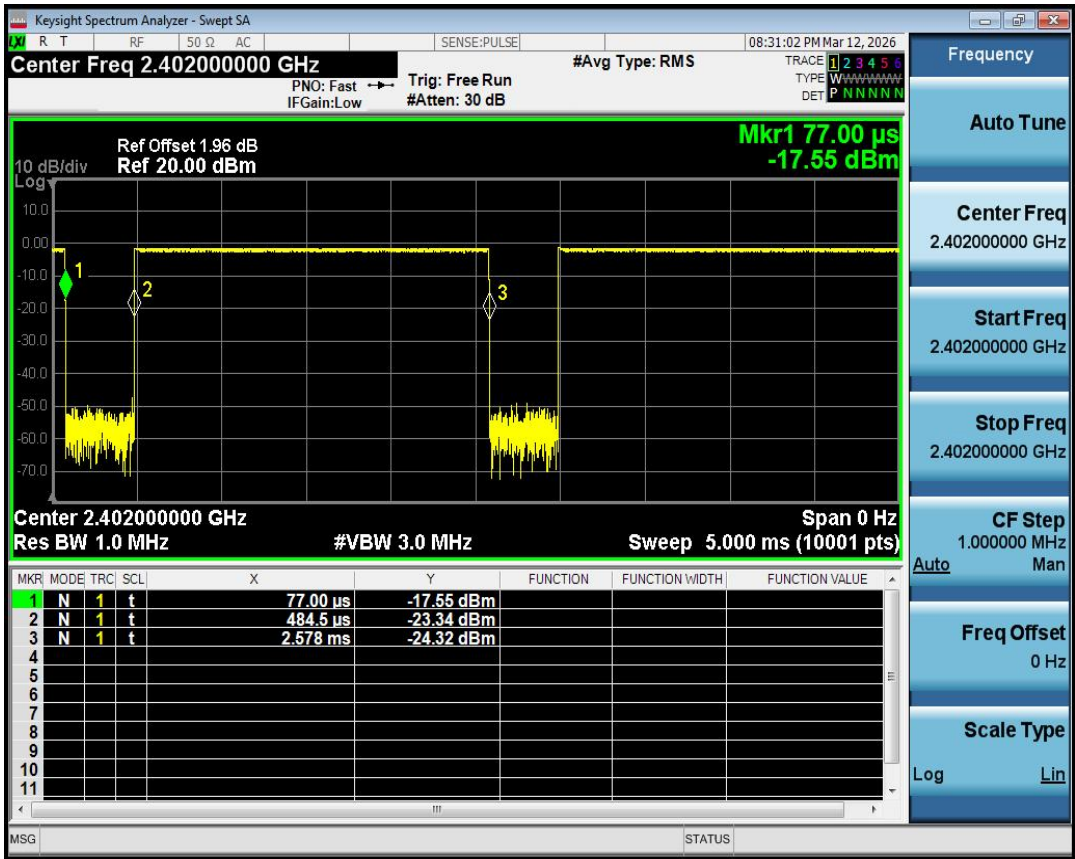
Maximum Power Spectral Density Level 14

Band Edge 17

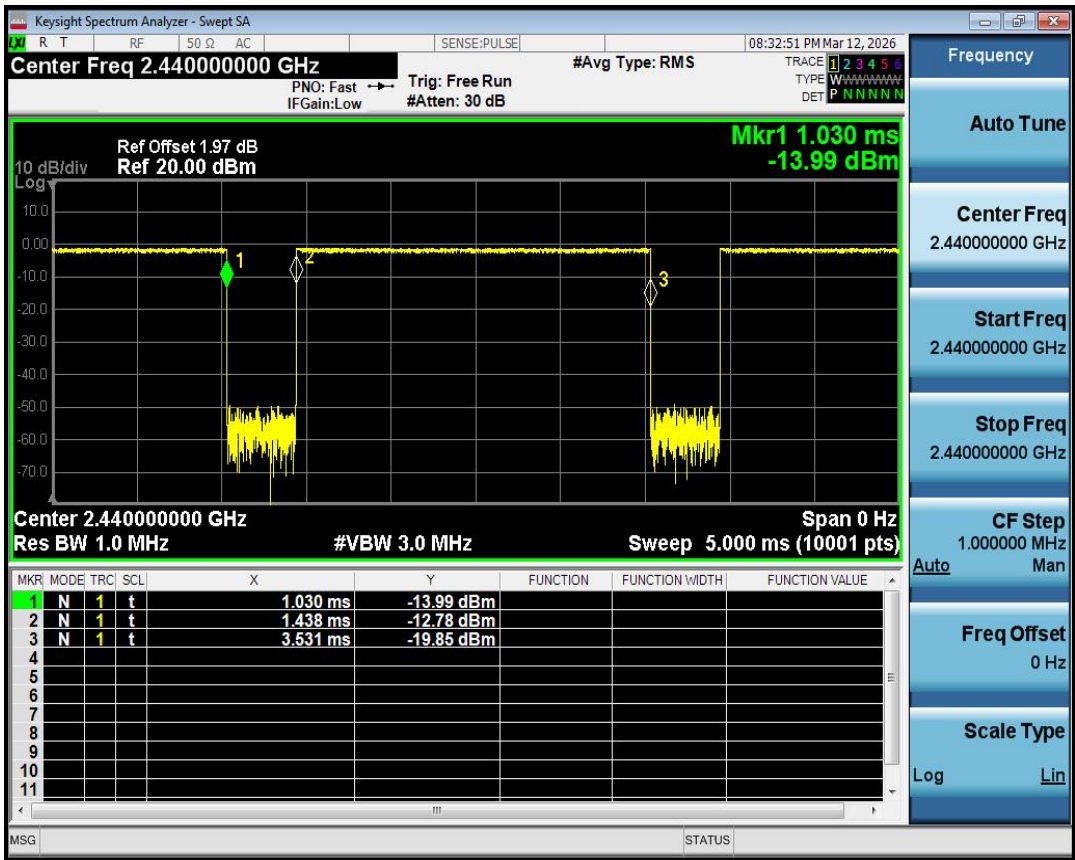
Conducted RF Spurious Emission 20

Duty Cycle

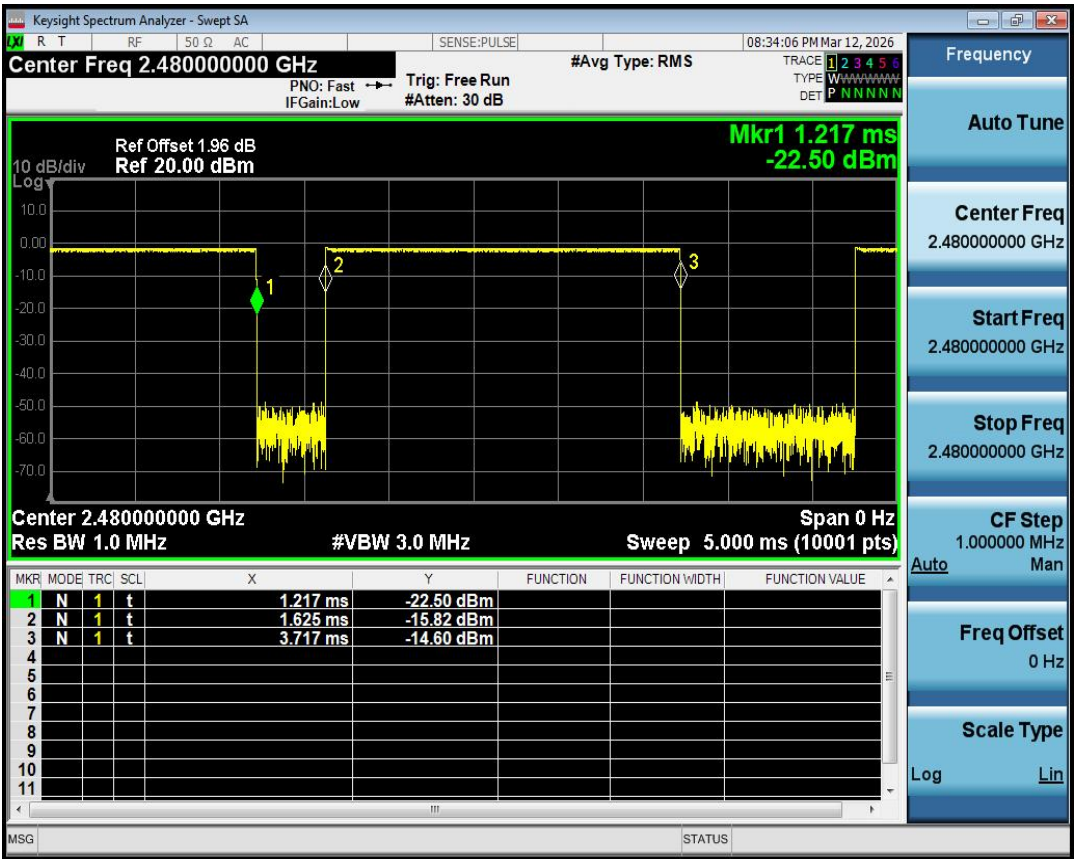
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	83.7	0.77	0.48
NVNT	BLE 1M	2440	Ant1	83.68	0.77	0.48
NVNT	BLE 1M	2480	Ant1	83.7	0.77	0.48



Duty Cycle NVNT BLE 1M 2402MHz Ant1



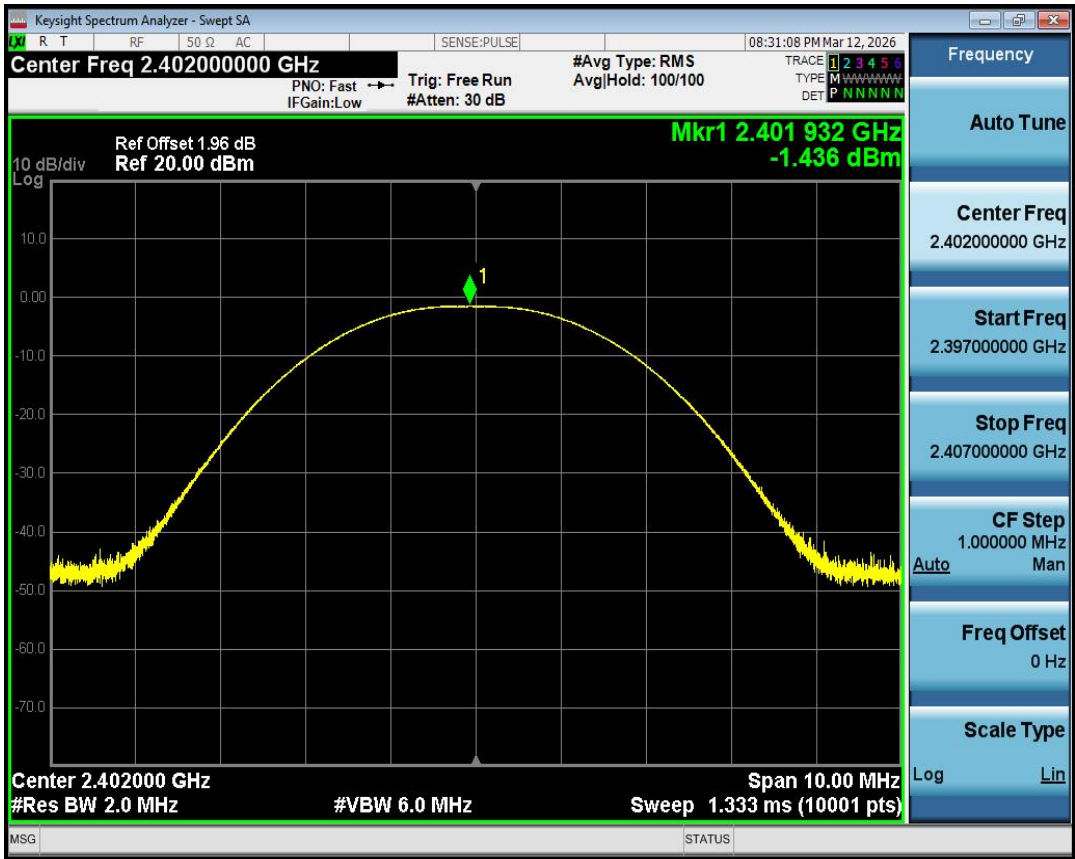
Duty Cycle NVNT BLE 1M 2440MHz Ant1



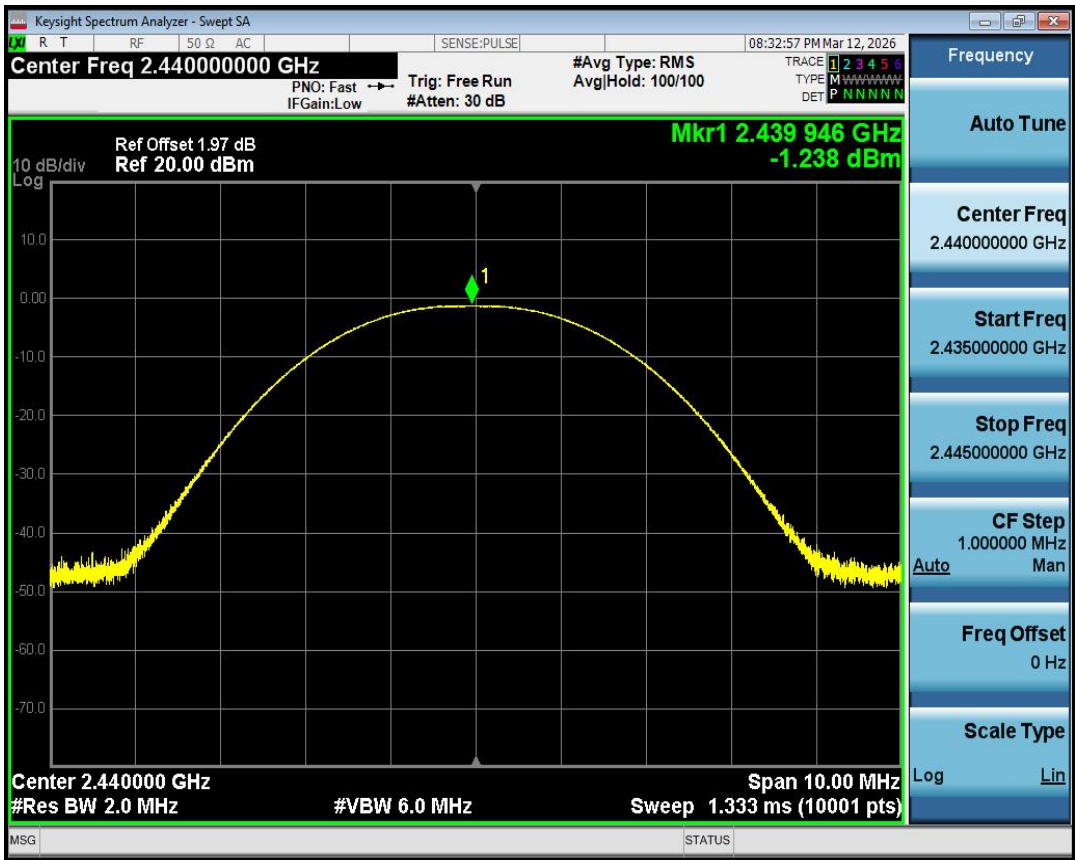
Duty Cycle NVNT BLE 1M 2480MHz Ant1

Maximum Peak Conducted Output Power

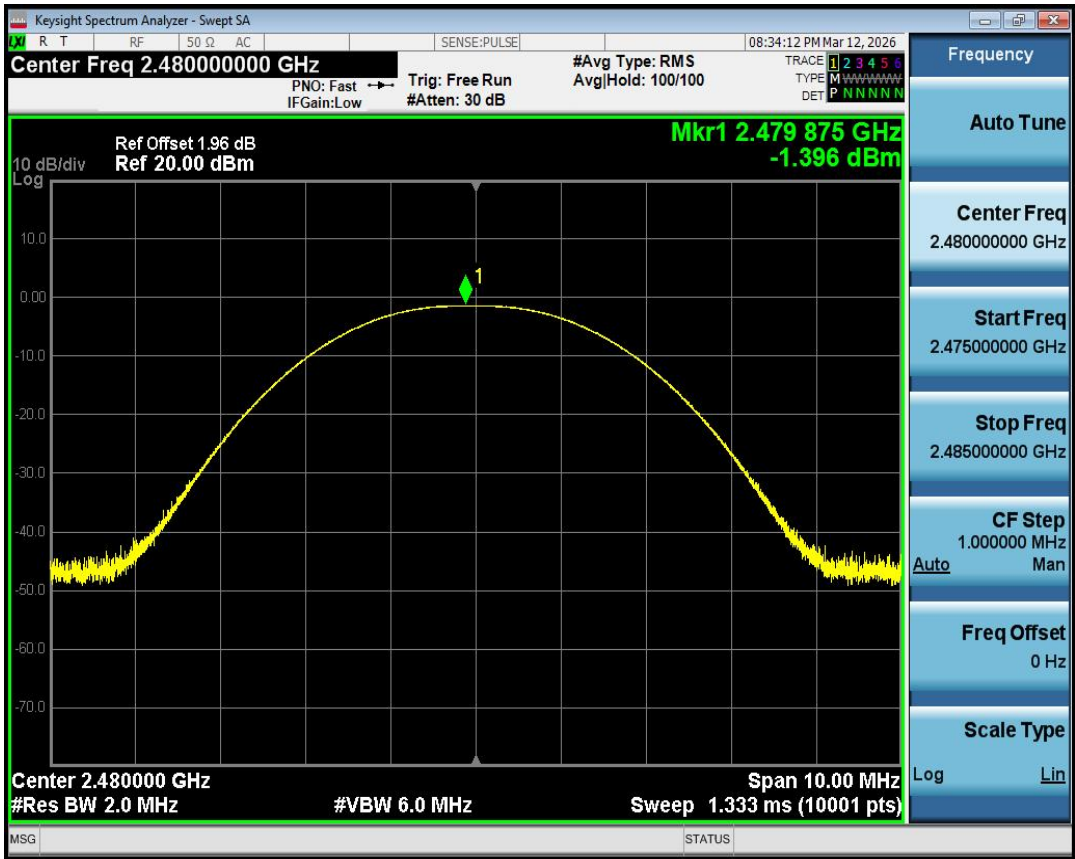
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted(dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.44	0	-1.44	0.00072	30	Pass
NVNT	BLE 1M	2440	Ant1	-1.24	0	-1.24	0.00075	30	Pass
NVNT	BLE 1M	2480	Ant1	-1.4	0	-1.4	0.00072	30	Pass



Peak Power NVNT BLE 1M 2402MHz Ant1



Peak Power NVNT BLE 1M 2440MHz Ant1



Peak Power NVNT BLE 1M 2480MHz Ant1

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.6378	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6521	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.632	0.5	Pass



-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.0217
NVNT	BLE 1M	2440	Ant1	1.0181
NVNT	BLE 1M	2480	Ant1	1.0226



OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1



OBW NVNT BLE 1M 2480MHz Ant1

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	-16.7	0	-16.7	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.61	0	-16.61	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.8	0	-16.8	8	Pass



PSD NVNT BLE 1M 2402MHz Ant1



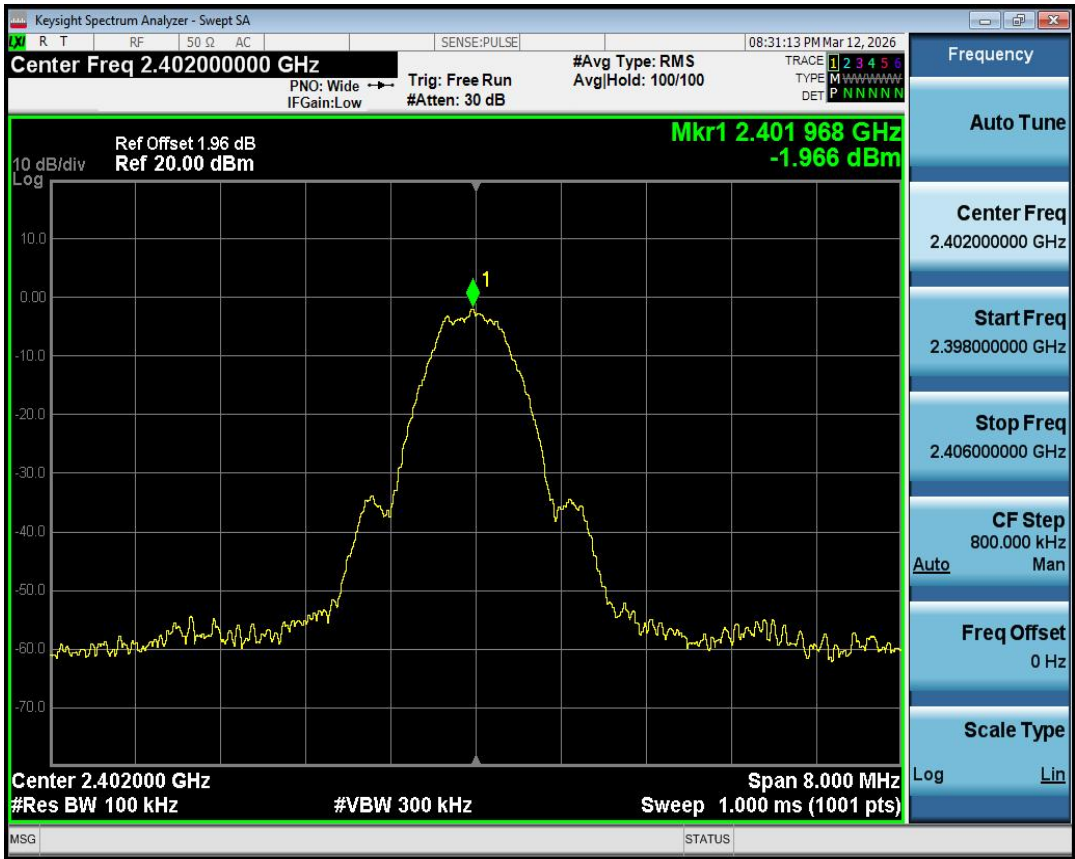
PSD NVNT BLE 1M 2440MHz Ant1



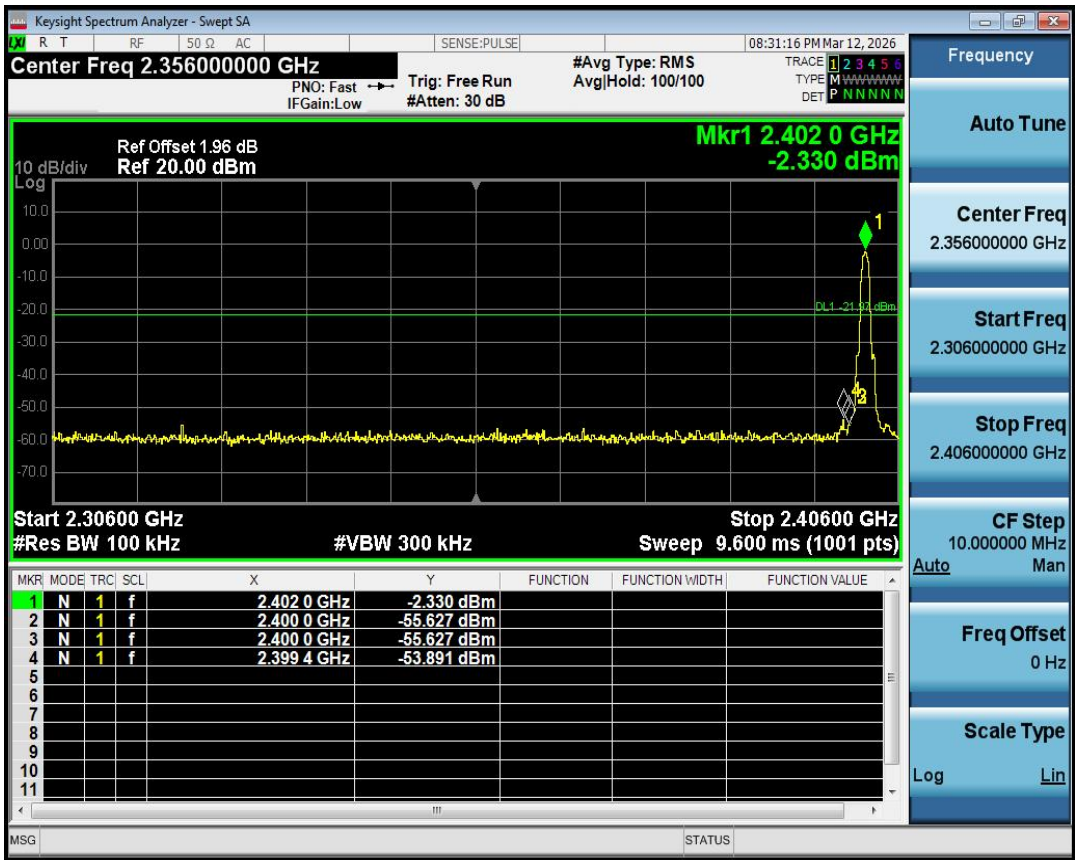
PSD NVNT BLE 1M 2480MHz Ant1

Band Edge

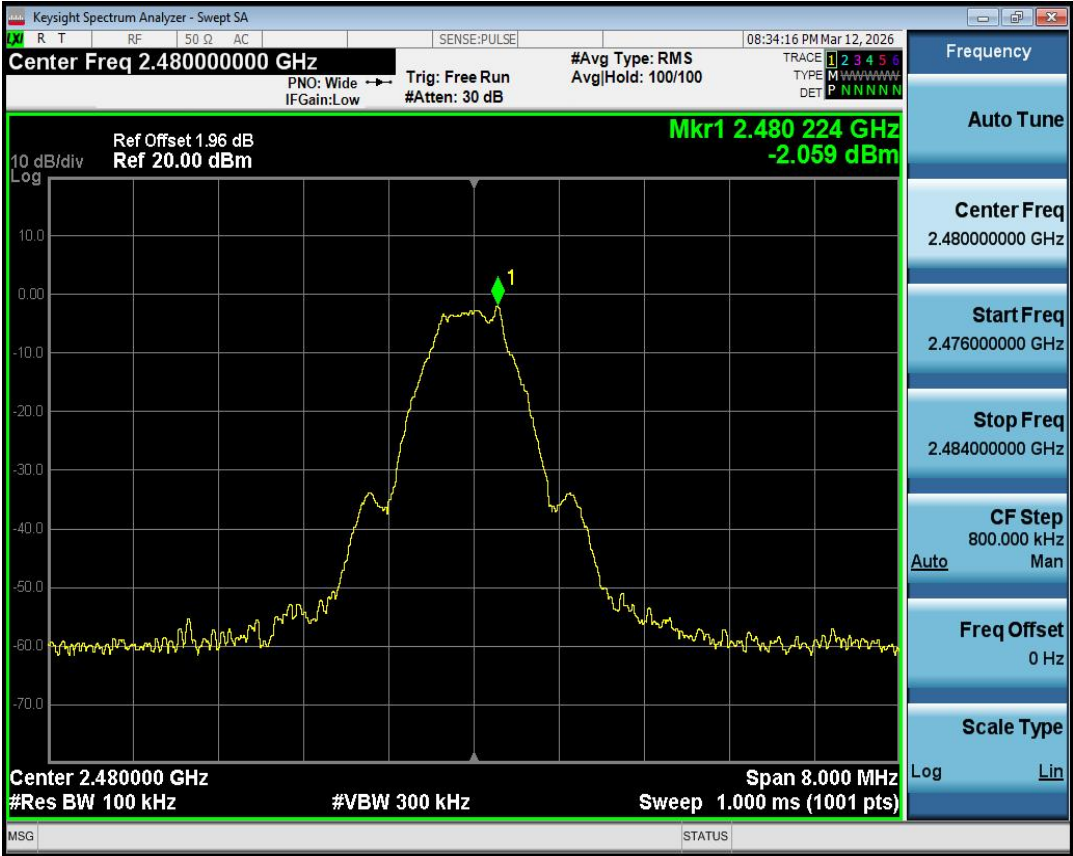
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-51.92	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.27	-20	Pass



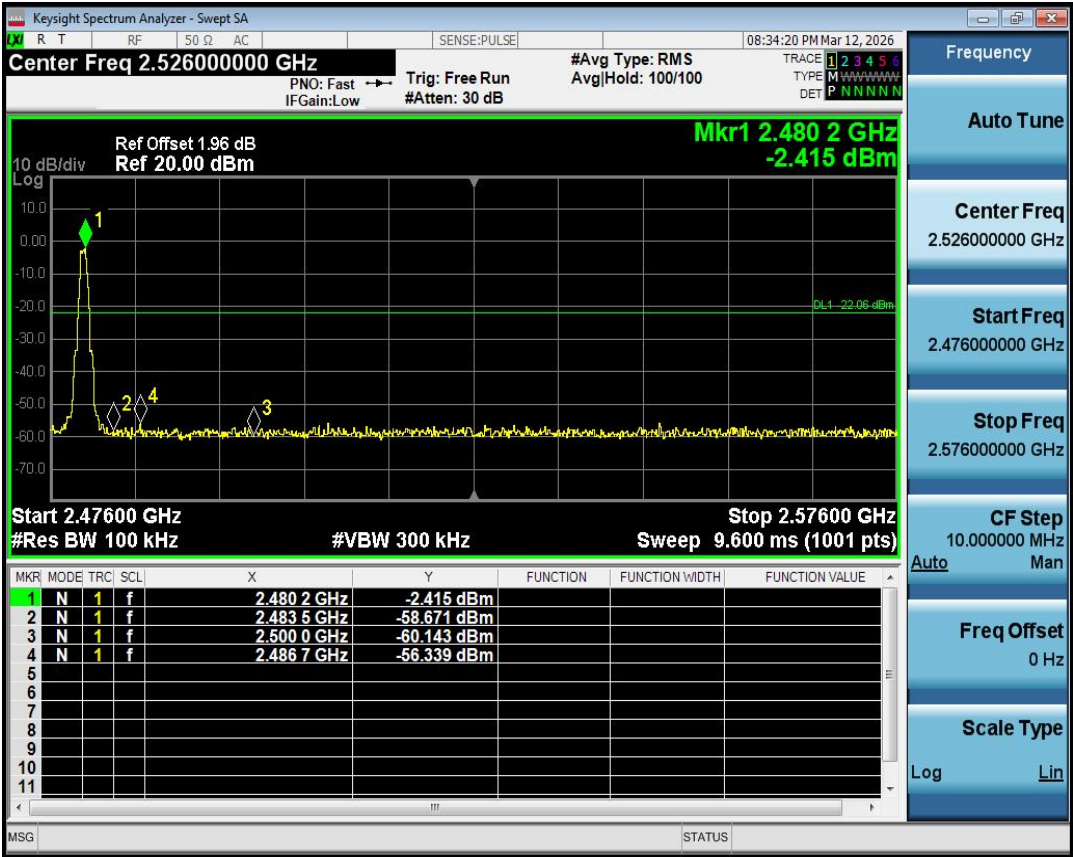
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



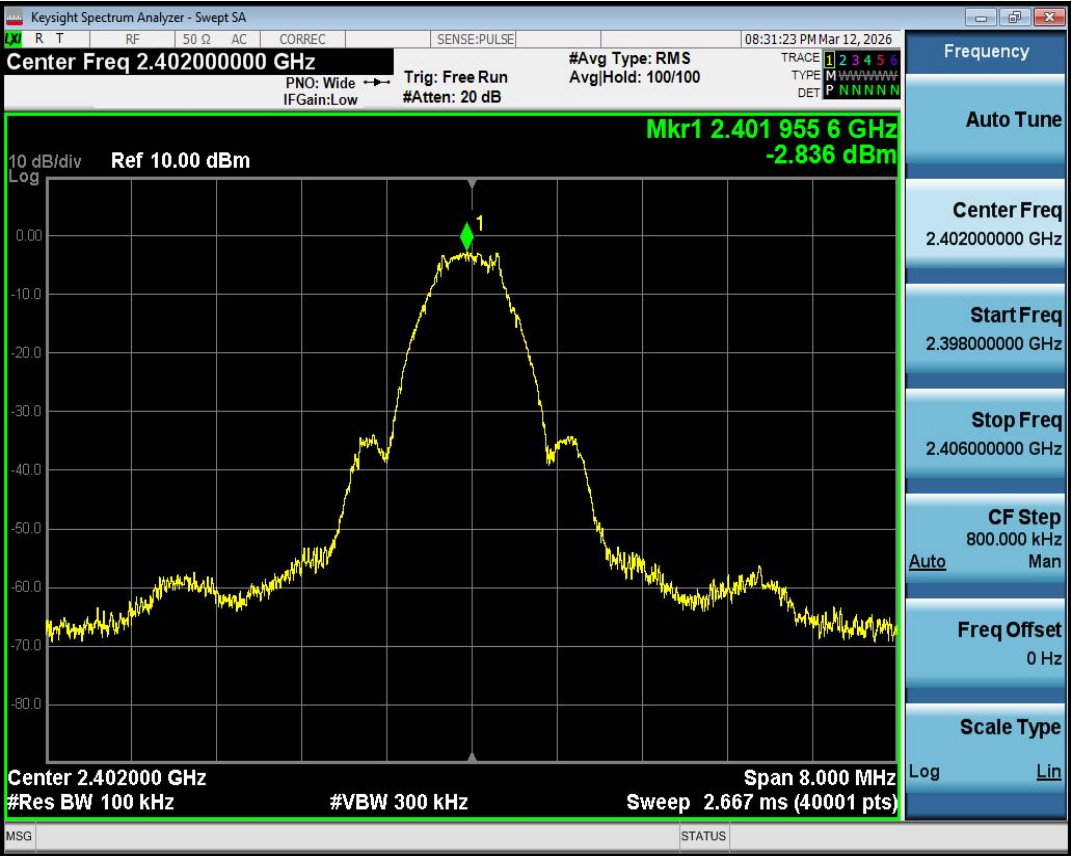
Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



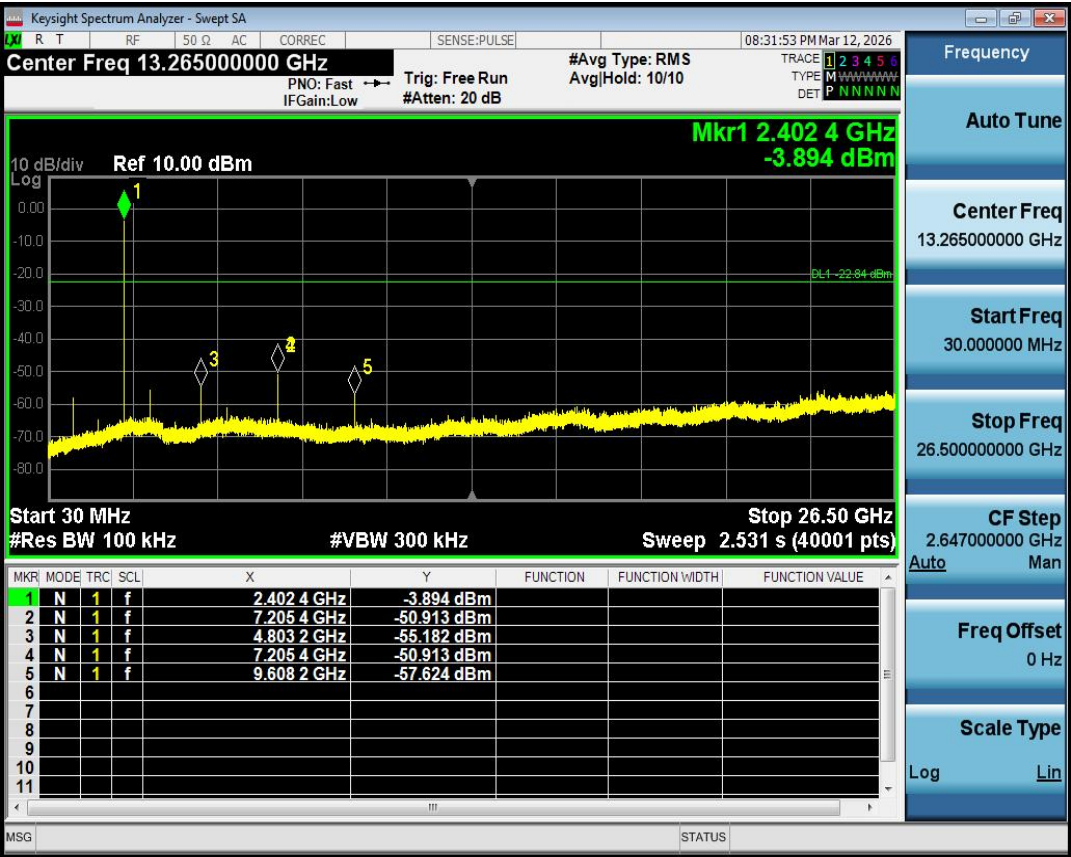
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission

Conducted RF Spurious Emission

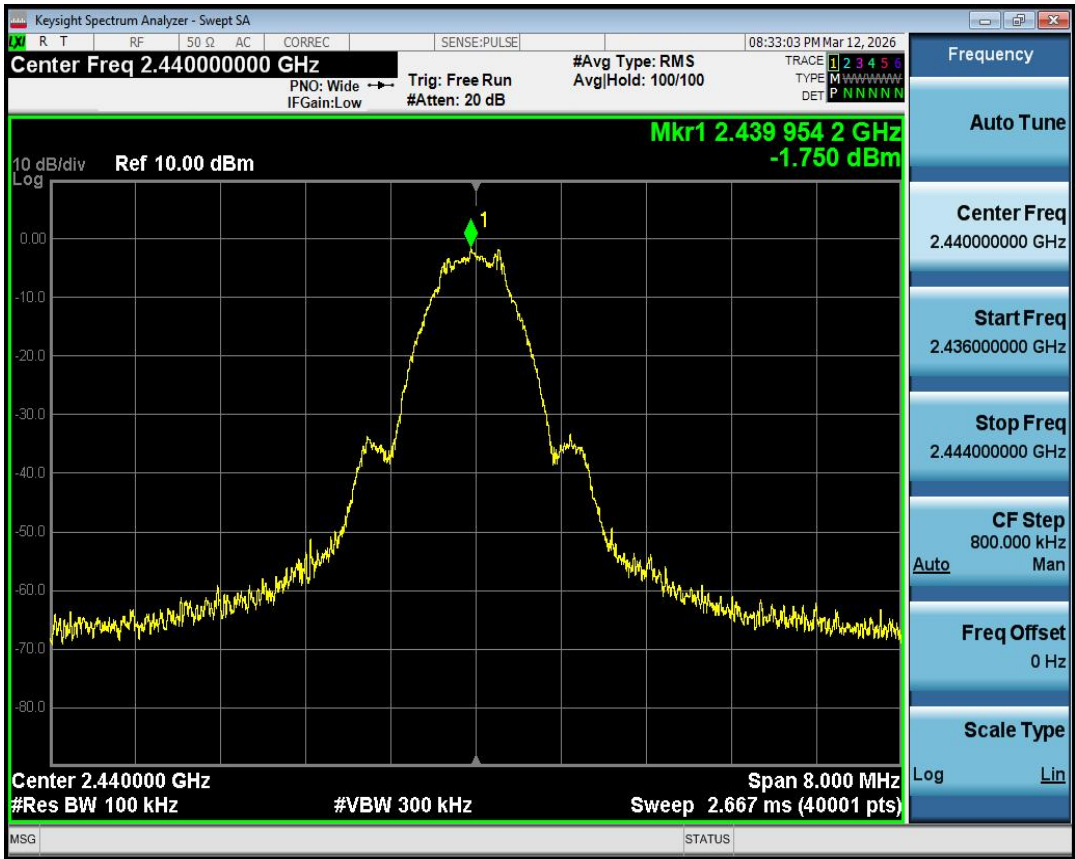
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-48.07	-20	Pass
NVNT	BLE 1M	2440	Ant1	-44.87	-20	Pass
NVNT	BLE 1M	2480	Ant1	-42.51	-20	Pass



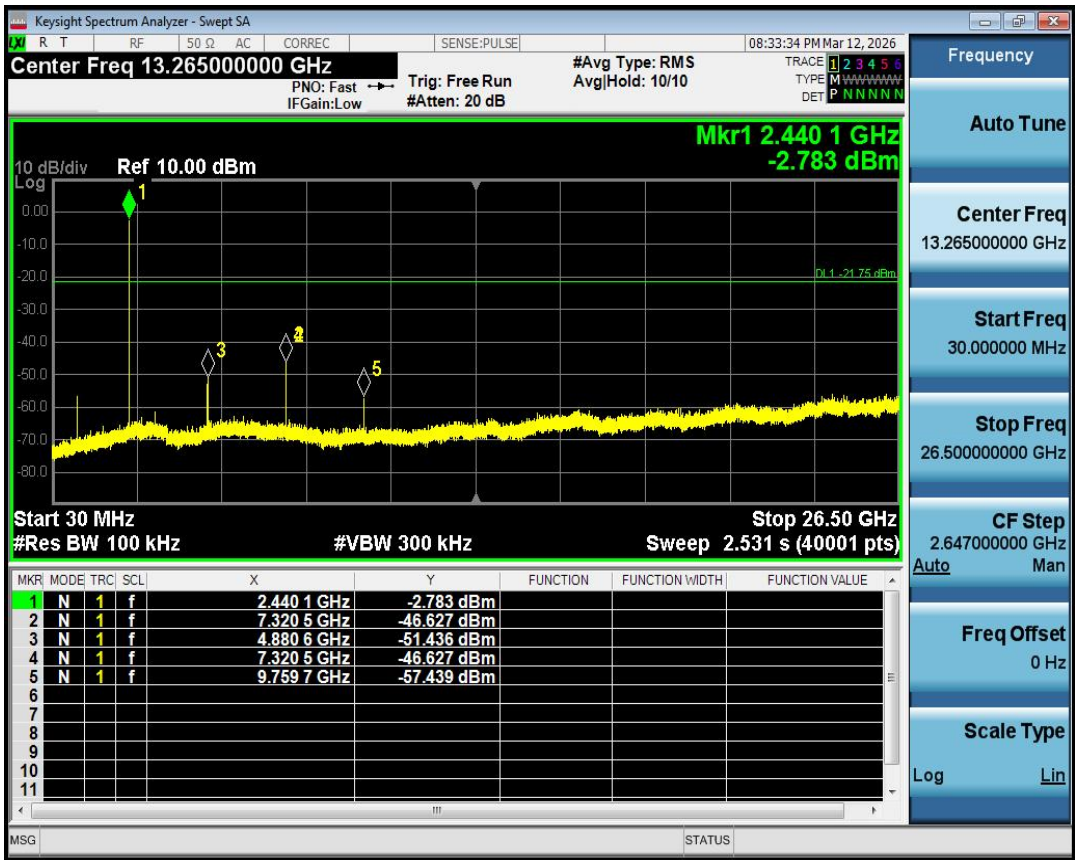
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



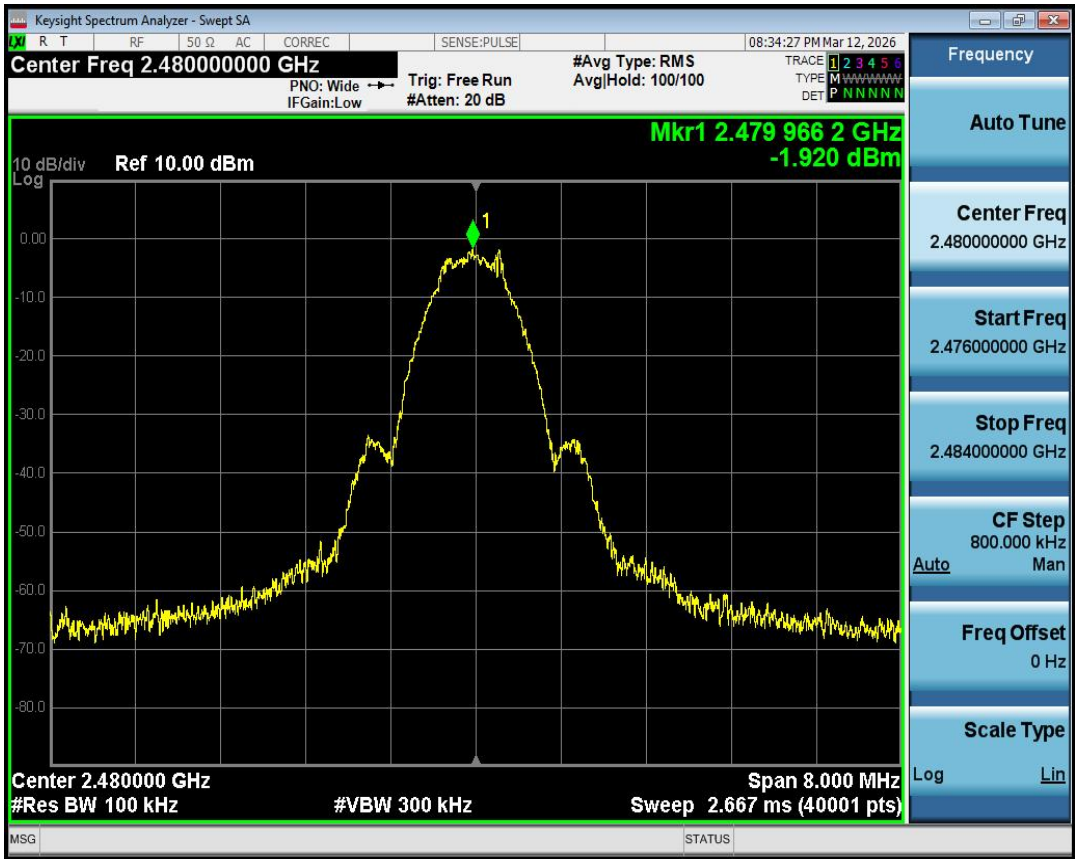
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



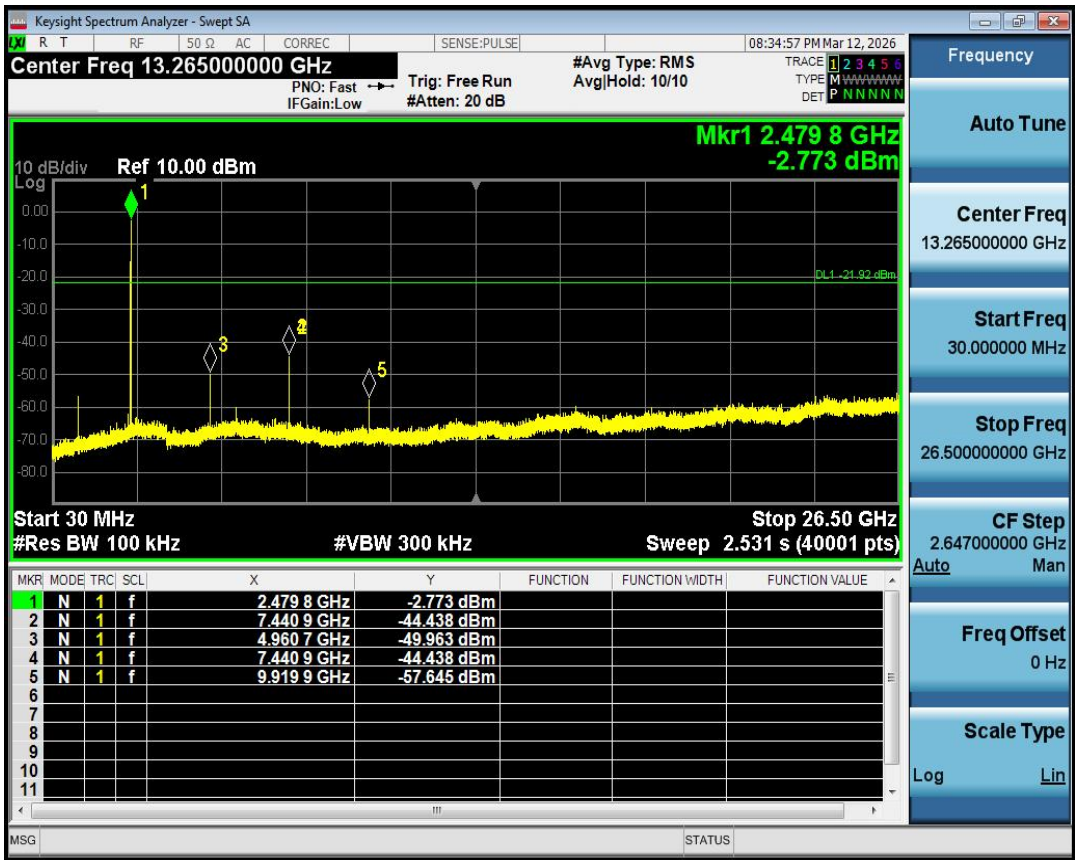
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission