

Appendix

Test Data

for BTEK241210052A01E05

Start date	2025/3/21	Finish date	2025/3/21
Temperature	22.3℃	Humidity	43%
RF specifications	BLE-125 kbps	Test Engineer	Zora



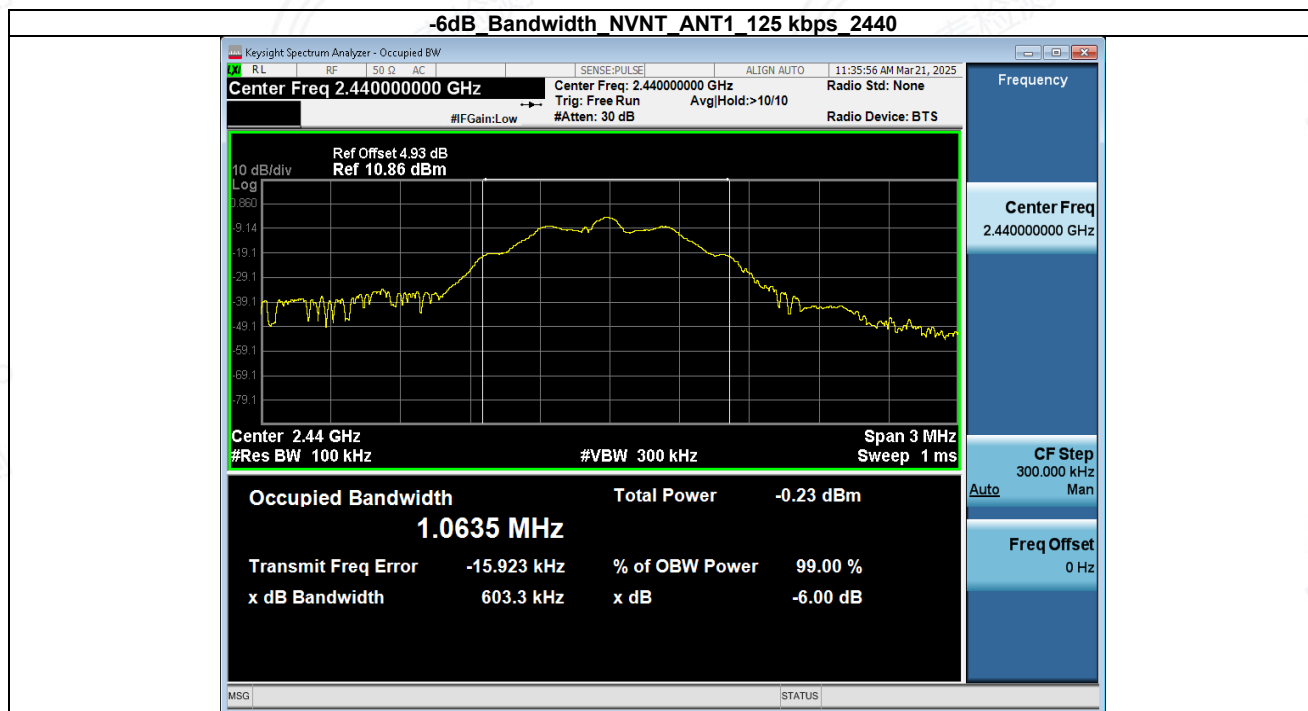
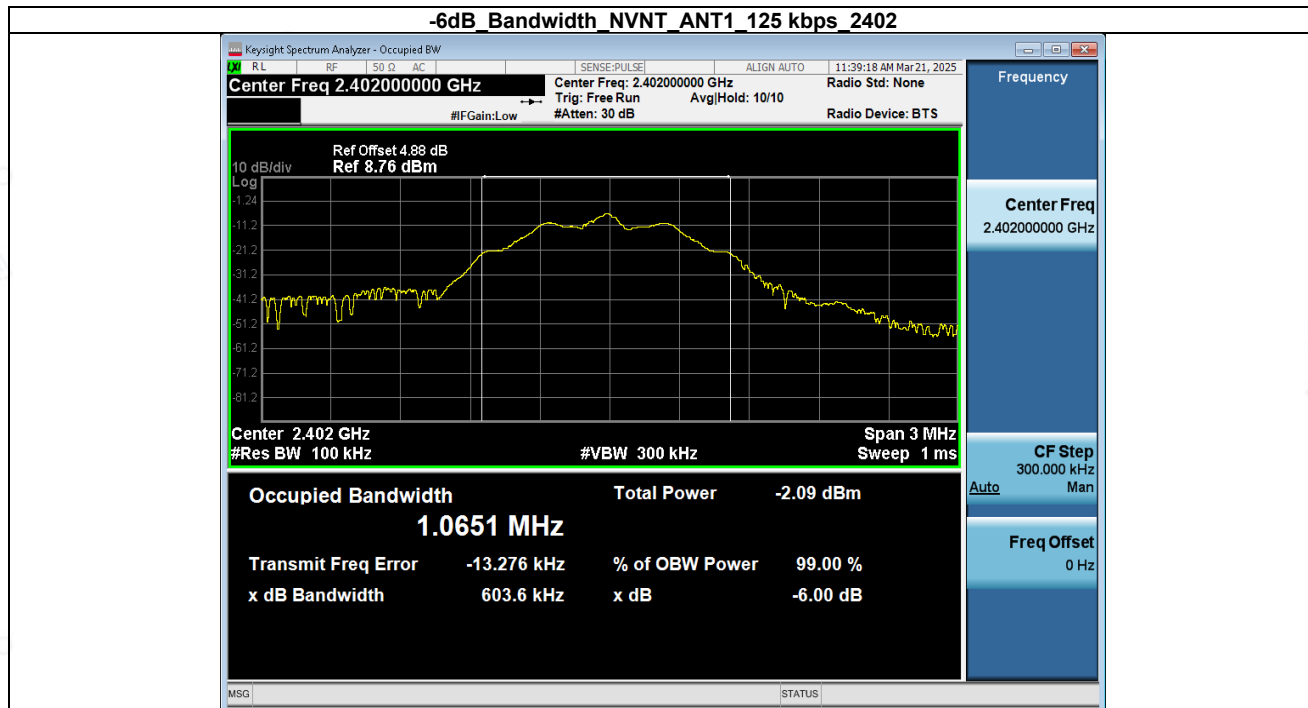
Table of Contents

1. -6dB Bandwidth.....	3
2. 99% Occupied Bandwidth	5
3. Duty Cycle.....	7
4. Peak Output Power	9
5. Power Spectral Density.....	11
6. Bandedge.....	13
7. Spurious Emission.....	15



1. -6dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	125 kbps	2402.00	603.59	500	Pass
NVNT	ANT1	125 kbps	2440.00	603.32	500	Pass
NVNT	ANT1	125 kbps	2480.00	607.59	500	Pass



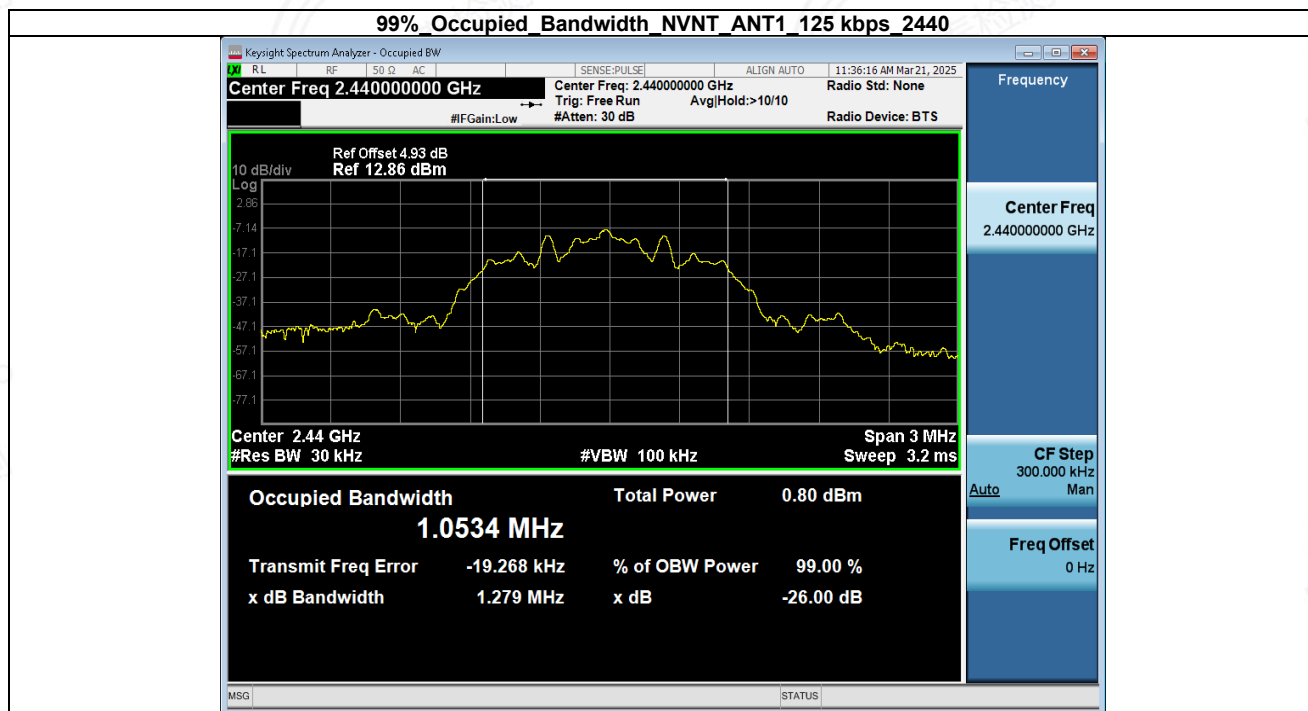
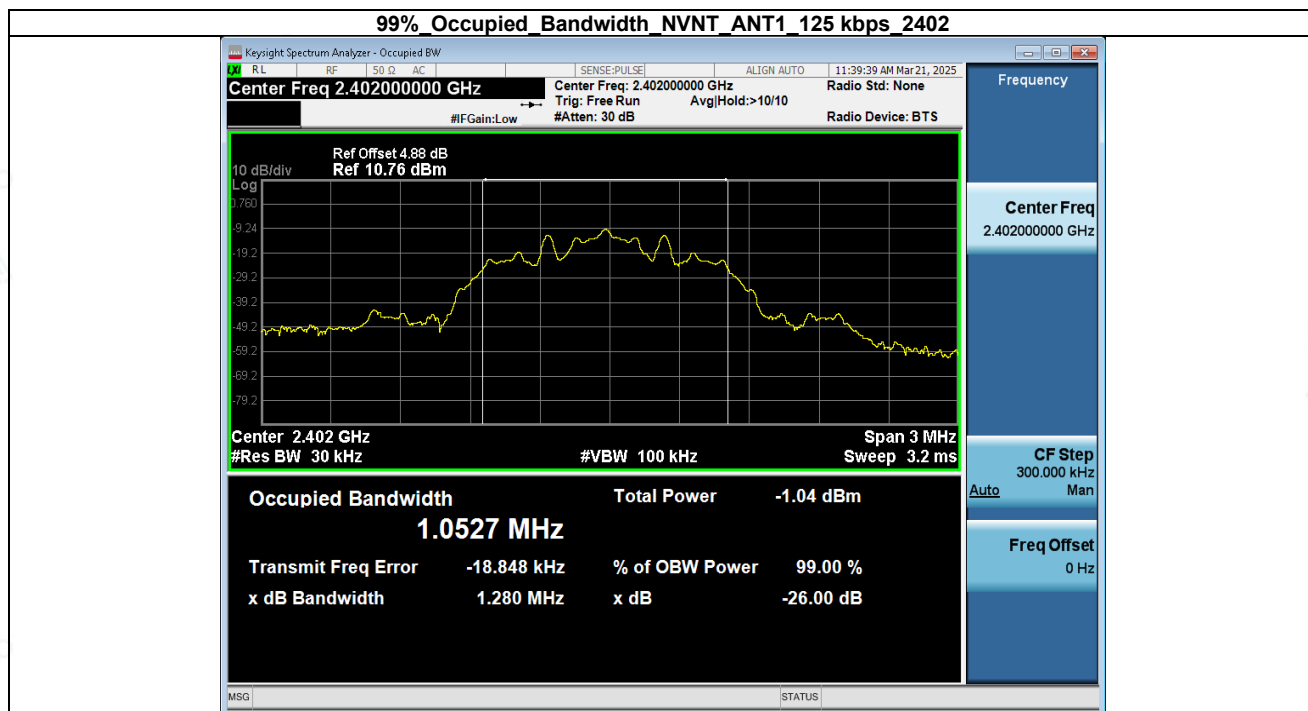
-6dB_Bandwidth_NVNT_ANT1_125 kbps_2480





2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	125 kbps	2402.00	1.053
NVNT	ANT1	125 kbps	2440.00	1.053
NVNT	ANT1	125 kbps	2480.00	1.051



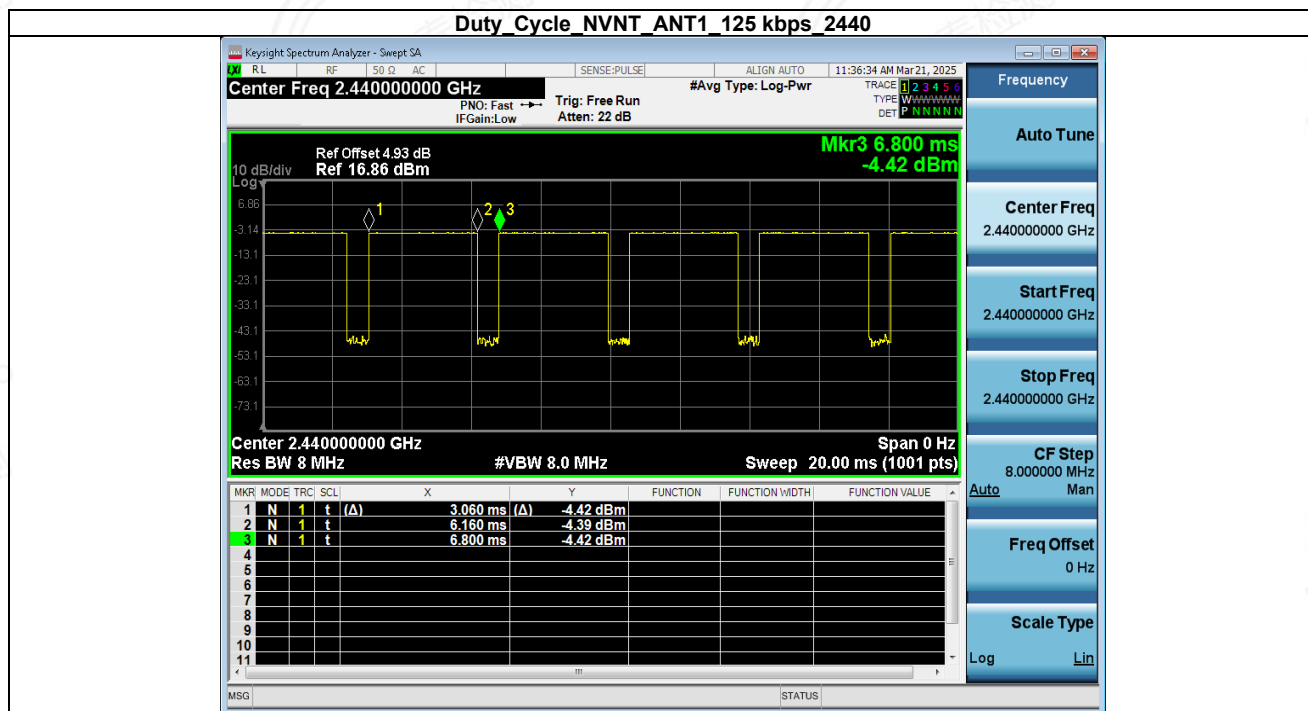
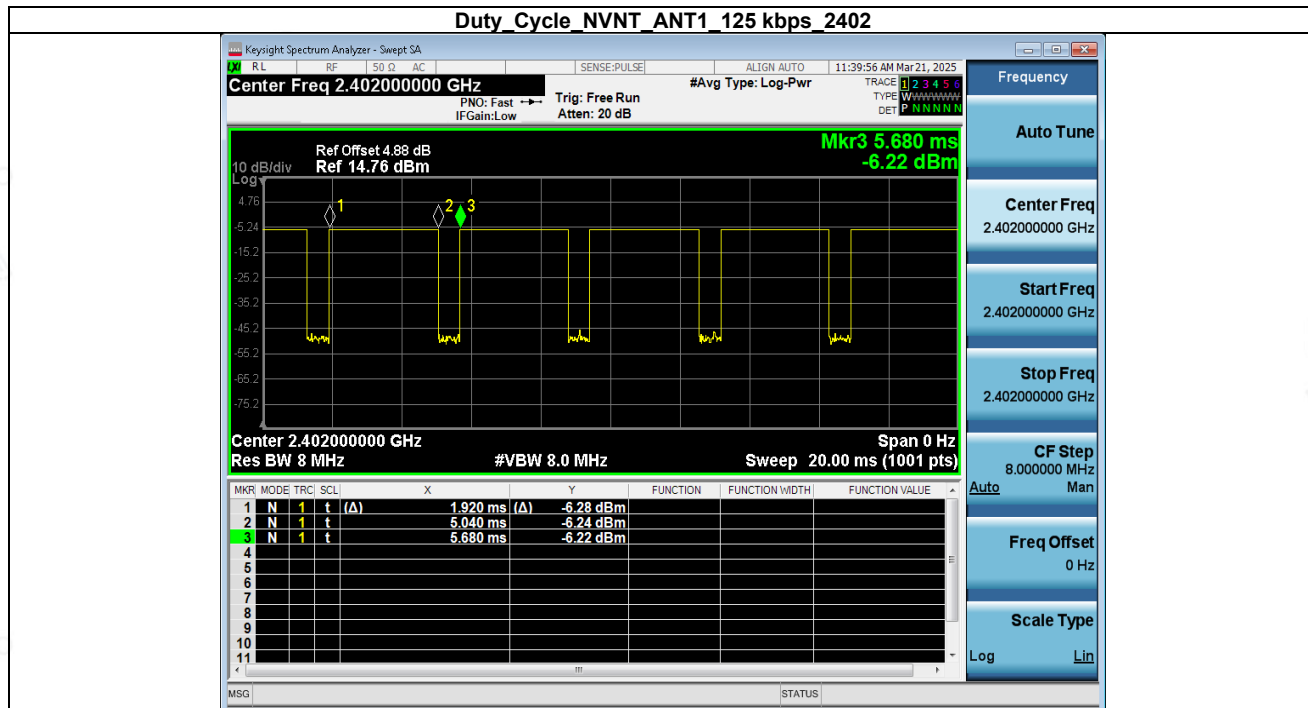
99% Occupied Bandwidth_NVNT_ANT1_125 kbps_2480





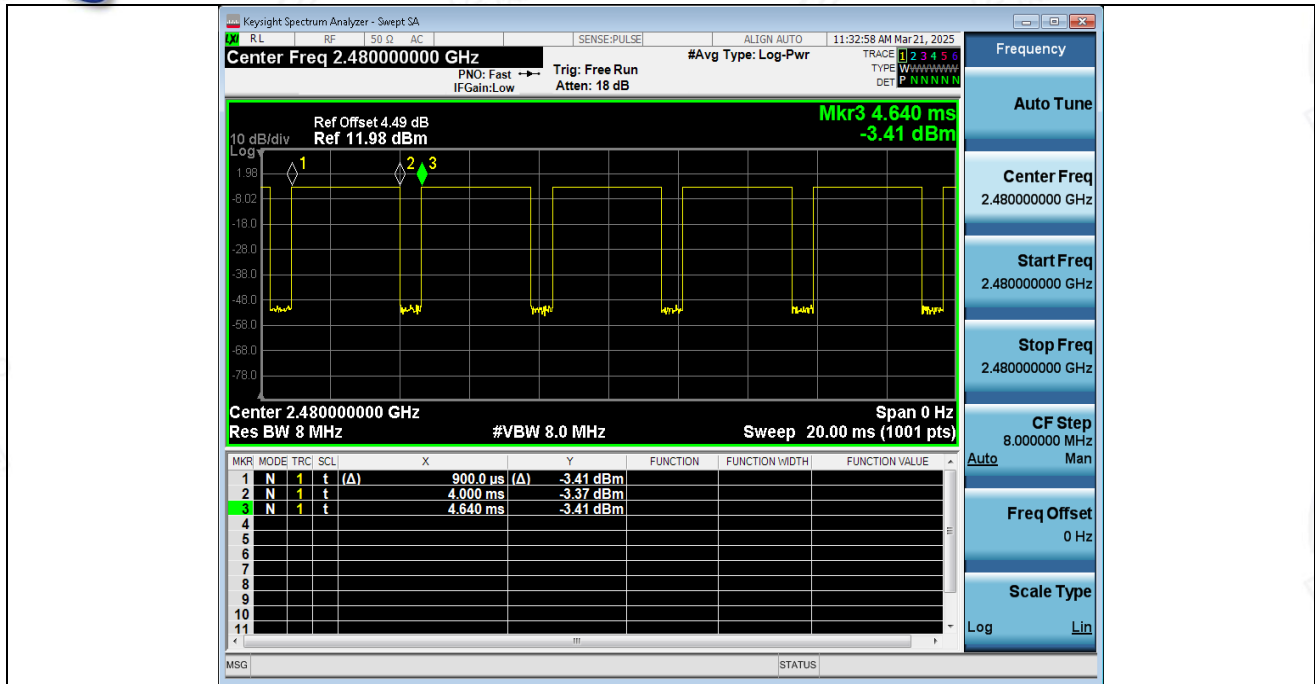
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	125 kbps	2402.00	83.51	0.78
NVNT	ANT1	125 kbps	2440.00	83.42	0.79
NVNT	ANT1	125 kbps	2480.00	83.42	0.79



Duty_Cycle_NVNT_ANT1_125 kbps_2480

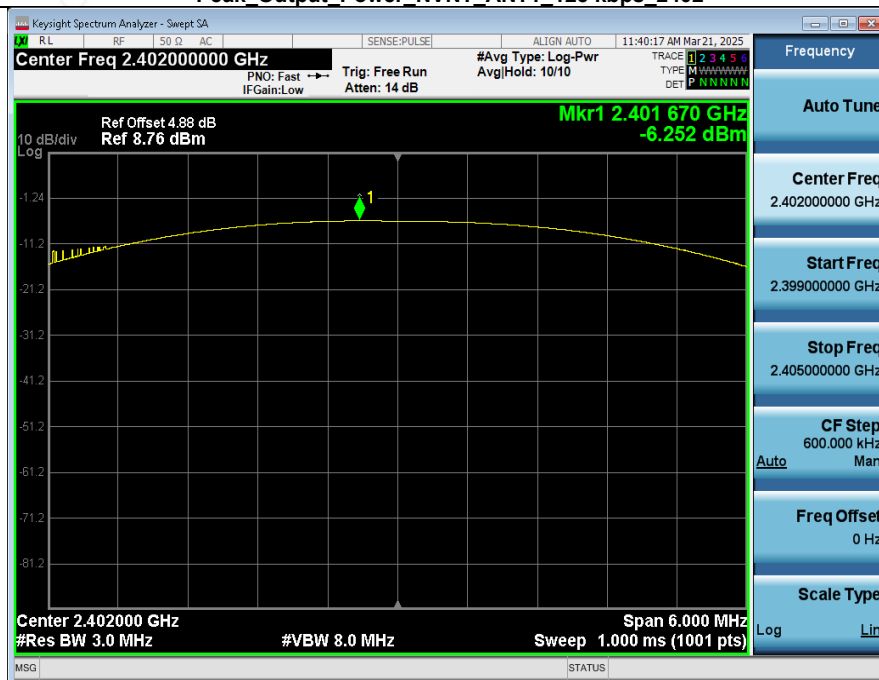




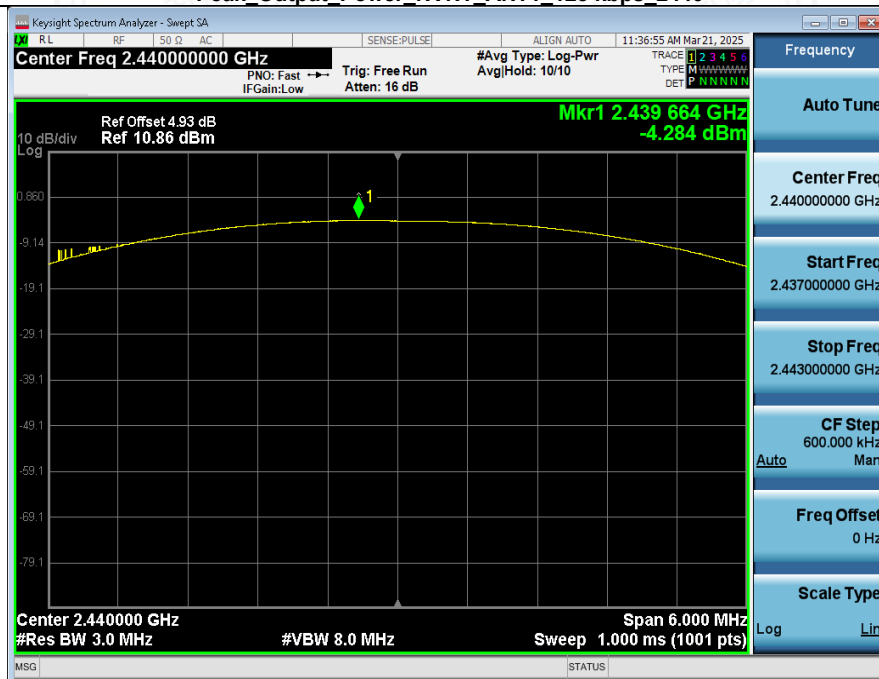
4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	125 kbps	2402.00	-6.25	0.24	1000	Pass
NVNT	ANT1	125 kbps	2440.00	-4.28	0.37	1000	Pass
NVNT	ANT1	125 kbps	2480.00	-3.34	0.46	1000	Pass

Peak_Output_Power_NVNT_ANT1_125 kbps_2402

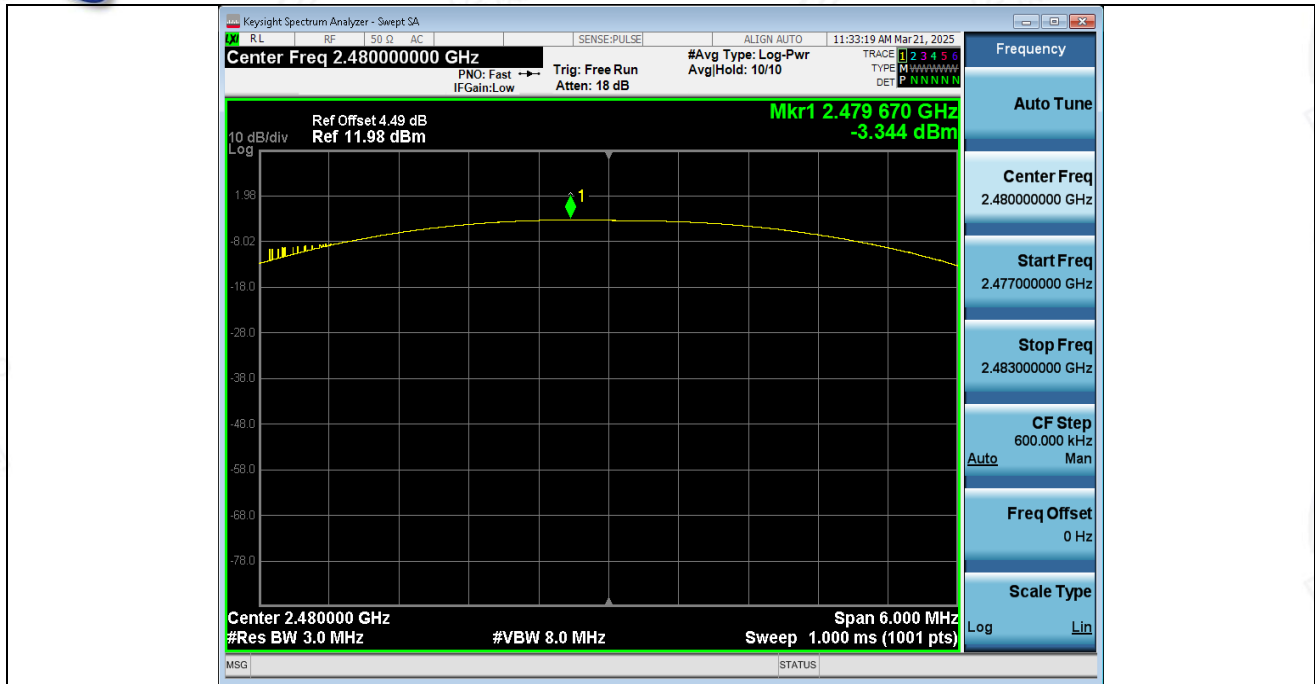


Peak_Output_Power_NVNT_ANT1_125 kbps_2440



Peak_Output_Power_NVNT_ANT1_125 kbps_2480





5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	125 kbps	2402.00	-12.52	8	Pass
NVNT	ANT1	125 kbps	2440.00	-10.60	8	Pass
NVNT	ANT1	125 kbps	2480.00	-9.64	8	Pass

Power Spectral Density NVNT ANT1 125 kbps 2402



Power Spectral Density NVNT ANT1 125 kbps 2440



Power Spectral Density NVNT ANT1 125 kbps 2480

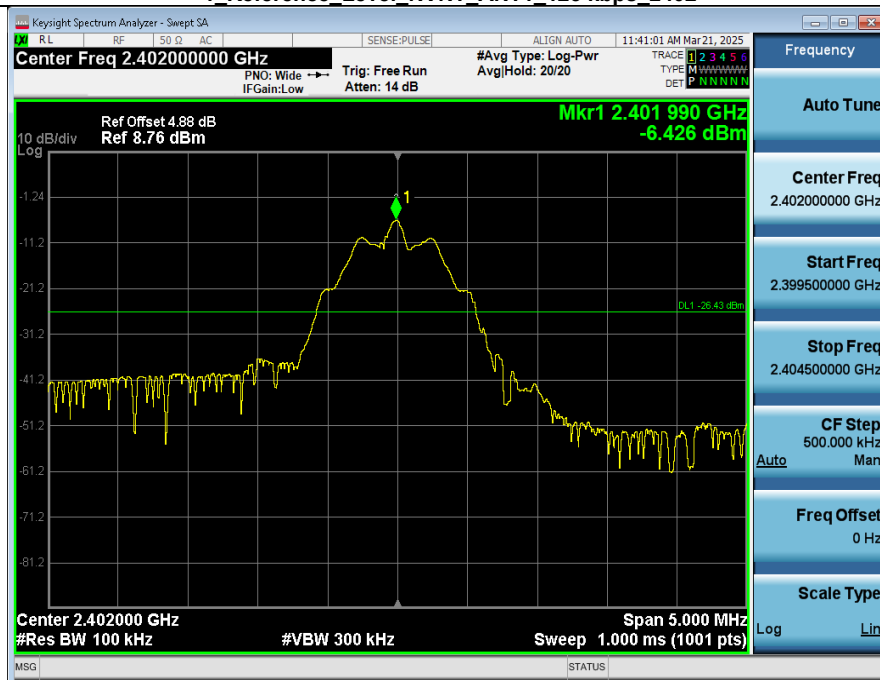




6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	125 kbps	2402.00	2399.965	-6.426	-40.480	-26.426	Pass
NVNT	ANT1	125 kbps	2480.00	2483.550	-3.540	-50.393	-23.540	Pass

1 Reference Level NVNT_ANT1_125 kbps_2402



2 Bandedge NVNT_ANT1_125 kbps_2402

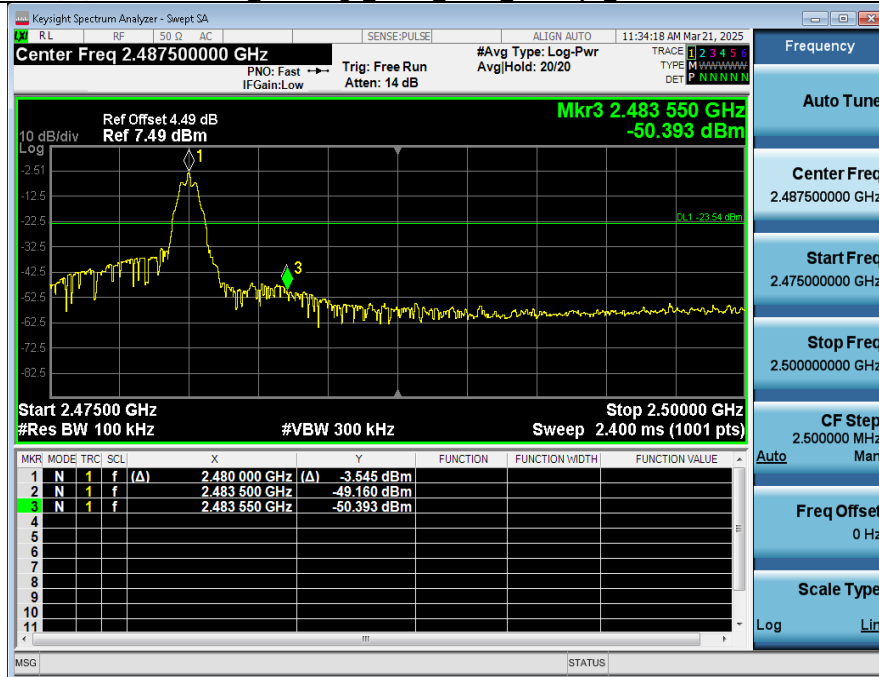


1 Reference Level NVNT_ANT1_125 kbps_2480





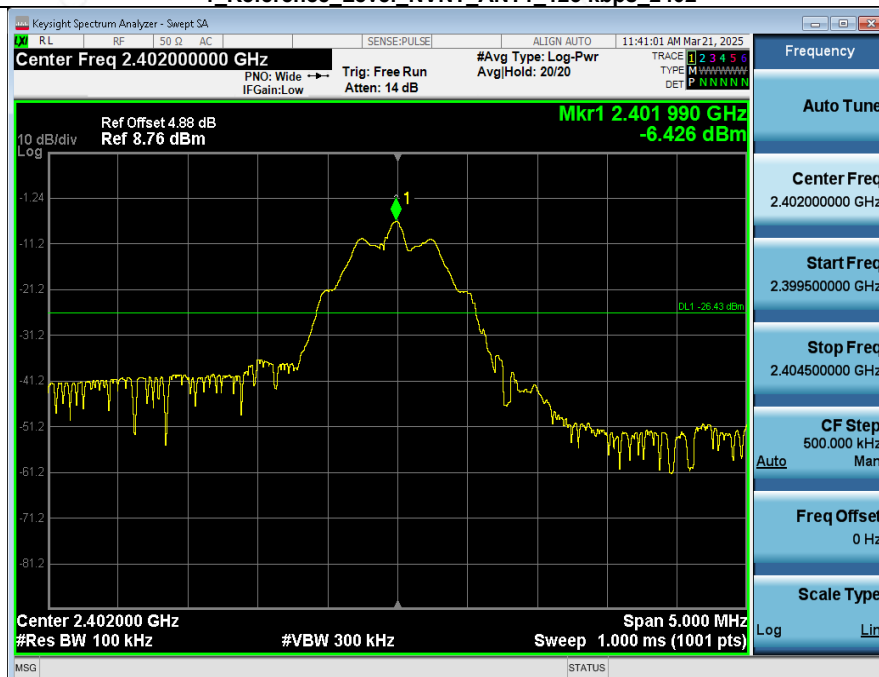
2_Bandedge_NVNT_ANT1_125 kbps_2480



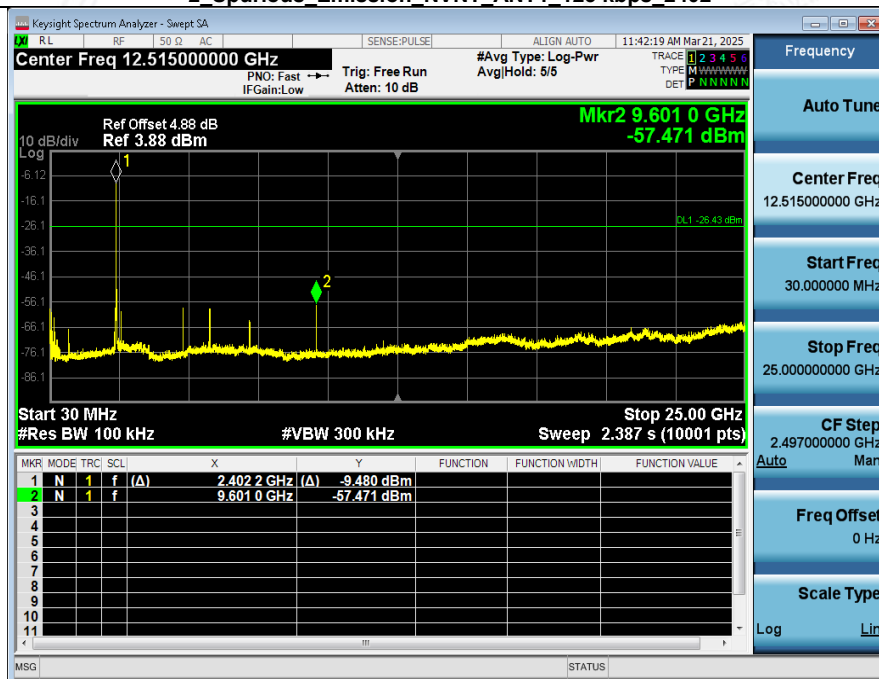
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	125 kbps	2402.00	-6.426	-57.471	-26.426	Pass
NVNT	ANT1	125 kbps	2440.00	-4.569	-56.884	-24.569	Pass
NVNT	ANT1	125 kbps	2480.00	-3.540	-53.717	-23.540	Pass

1 Reference Level NVNT_ANT1_125 kbps 2402



2 Spurious Emission NVNT_ANT1_125 kbps 2402

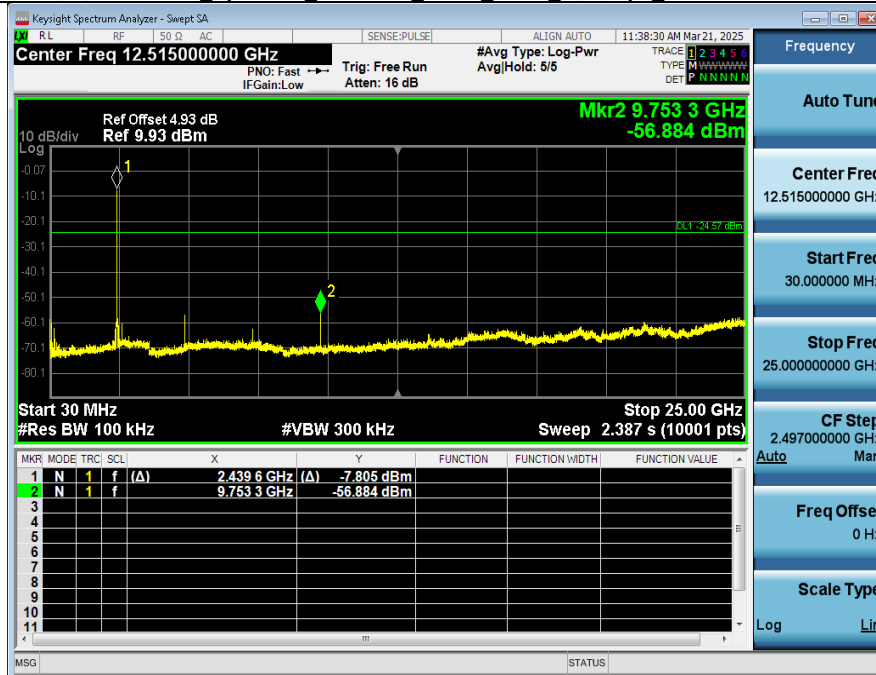


1 Reference Level NVNT_ANT1_125 kbps 2440





2_Spurious_Emission_NVNT_ANT1_125 kbps_2440



1_Reference_Level_NVNT_ANT1_125 kbps_2480





2 Spurious Emission NVNT ANT1 125 kbps 2480

