

Appendix

Test Data

for BTEK250522090A01-T01

Start date	2025/6/5	Finish date	2025/6/5
Temperature	22.4 °C	Humidity	56%
RF specifications	BLE	Test Engineer	Zora



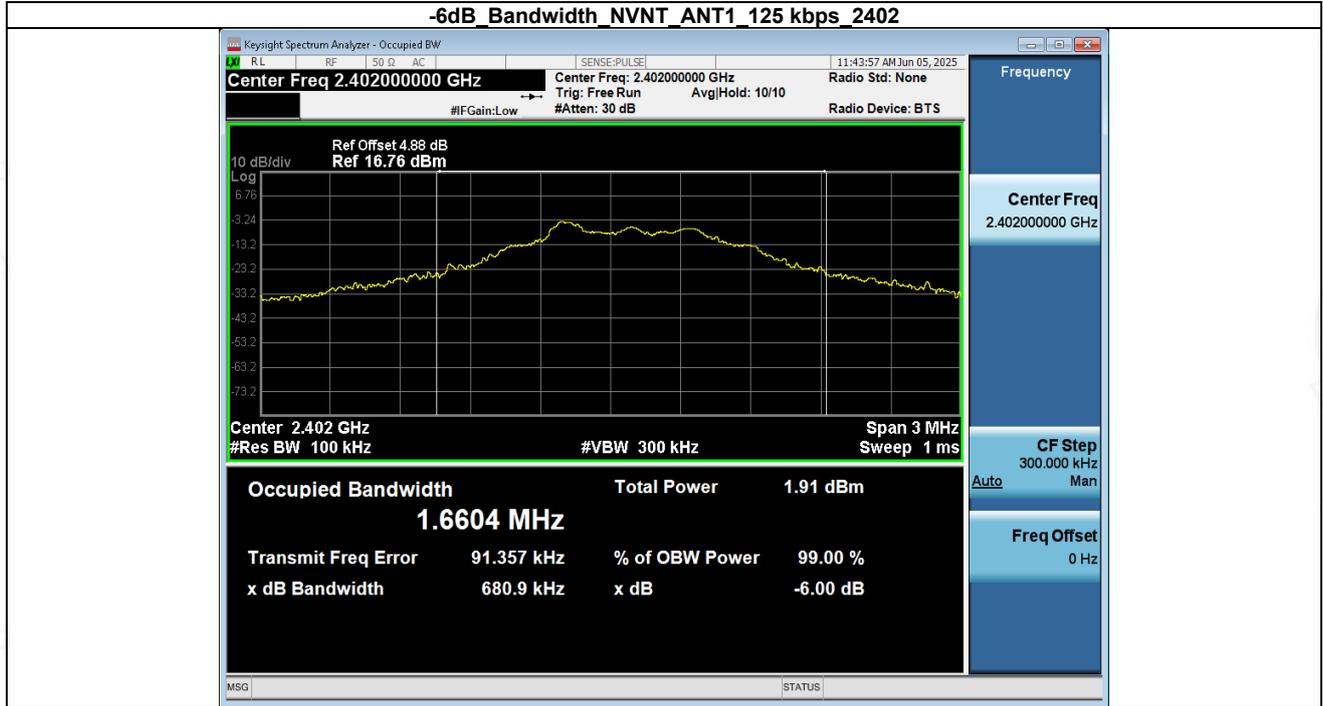
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1. -6dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	125 kbps	2402.00	680.87	500	Pass
NVNT	ANT1	125 kbps	2440.00	687.89	500	Pass
NVNT	ANT1	125 kbps	2480.00	685.68	500	Pass



-6dB_Bandwidth_NVNT_ANT1_125_kbps_2480

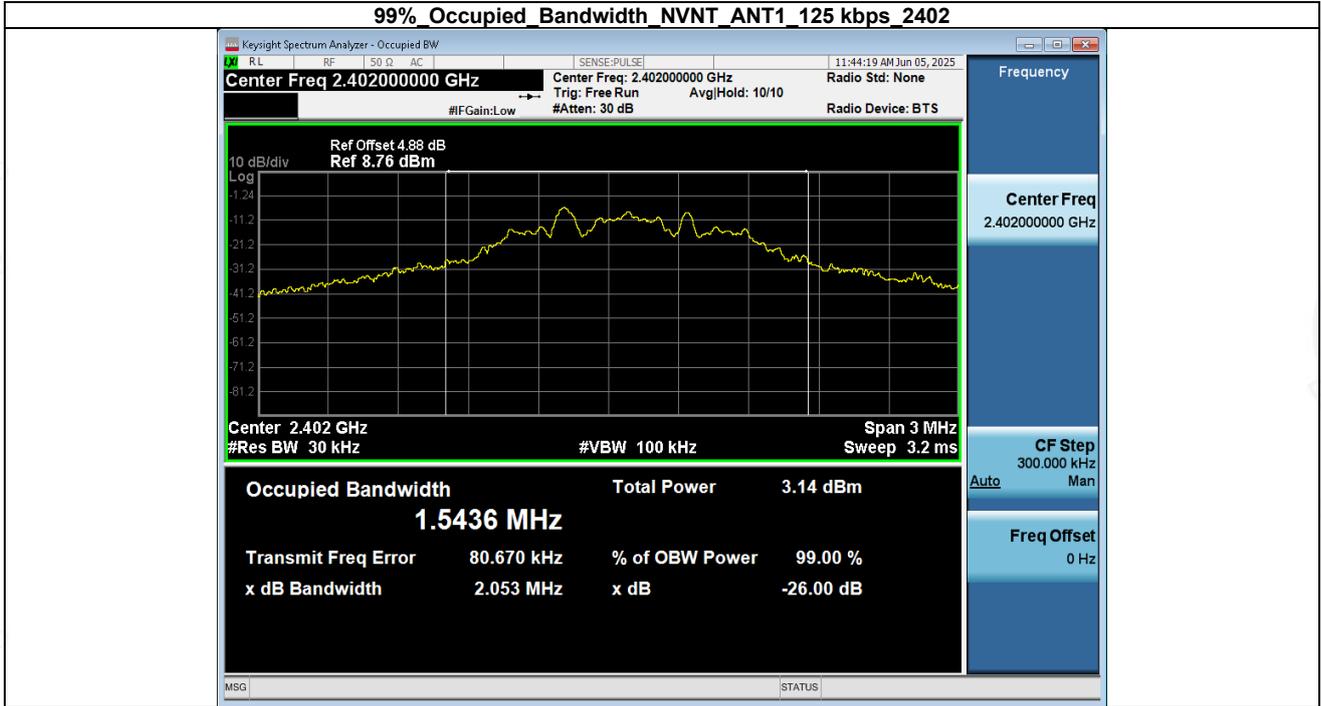




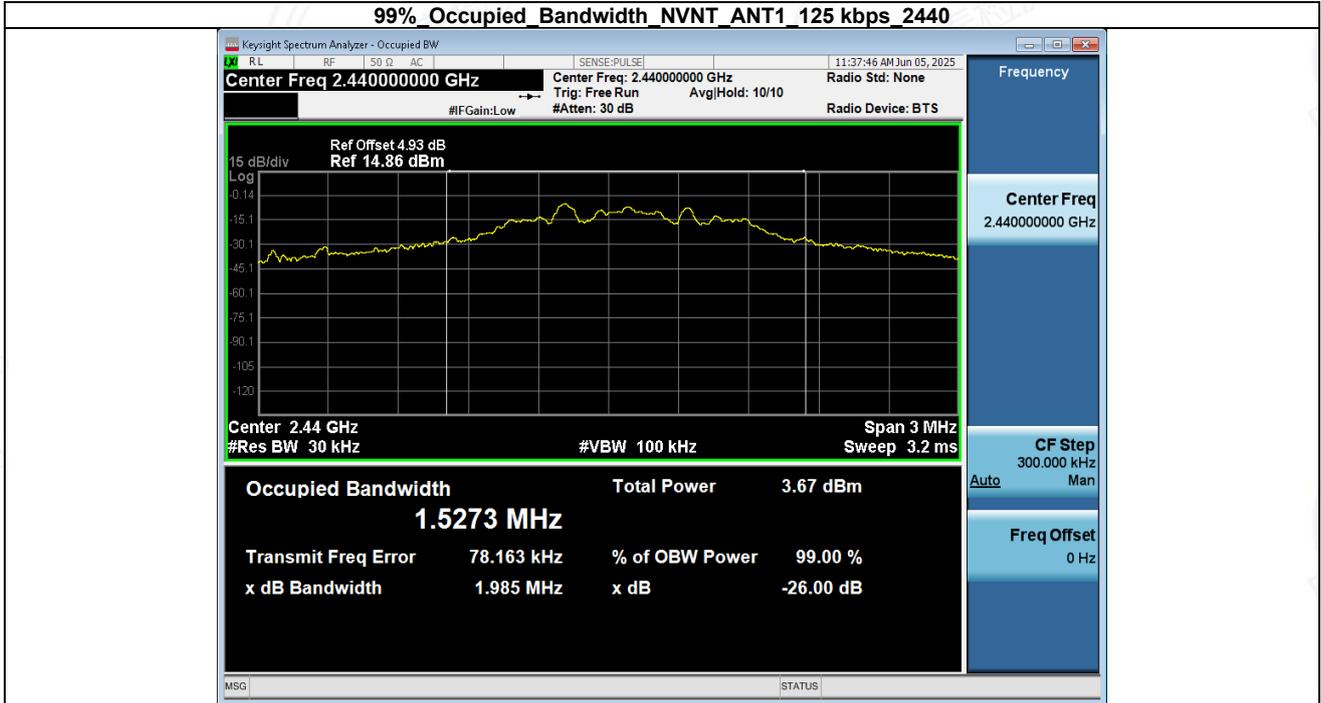
2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	125 kbps	2402.00	1.544
NVNT	ANT1	125 kbps	2440.00	1.527
NVNT	ANT1	125 kbps	2480.00	1.499

99% Occupied Bandwidth_NVNT_ANT1_125 kbps_2402

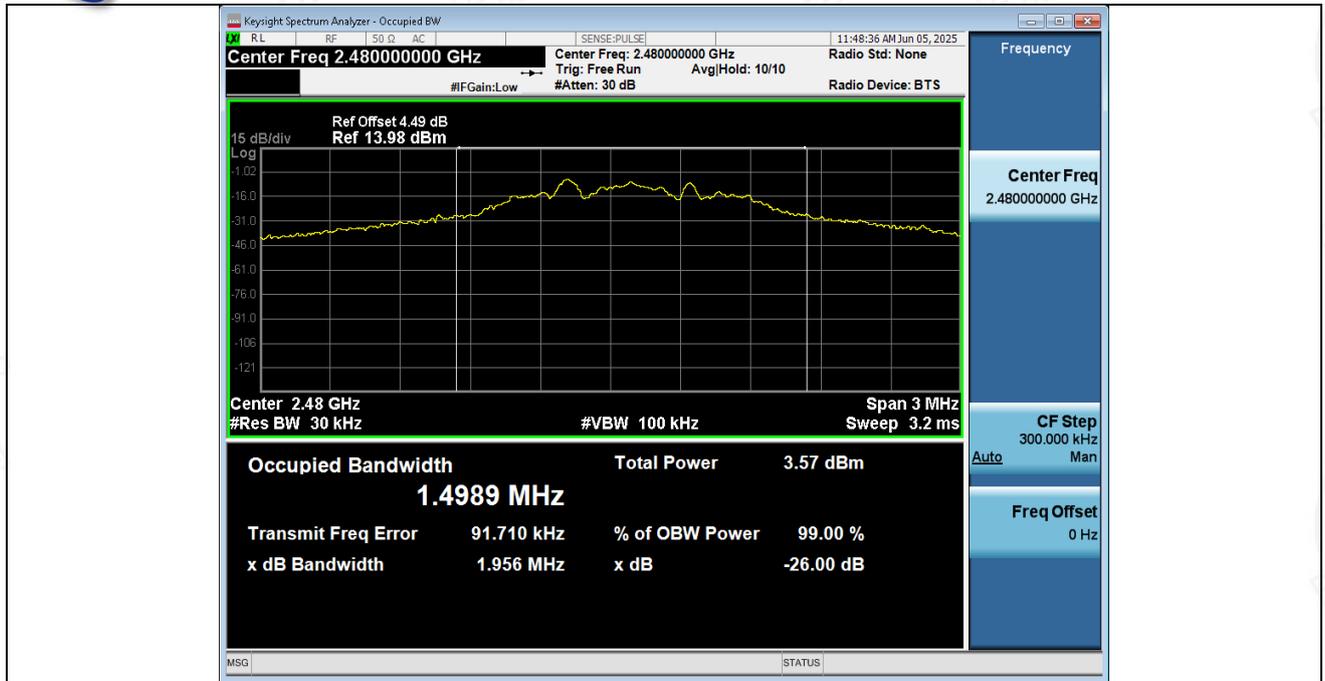


99% Occupied Bandwidth_NVNT_ANT1_125 kbps_2440



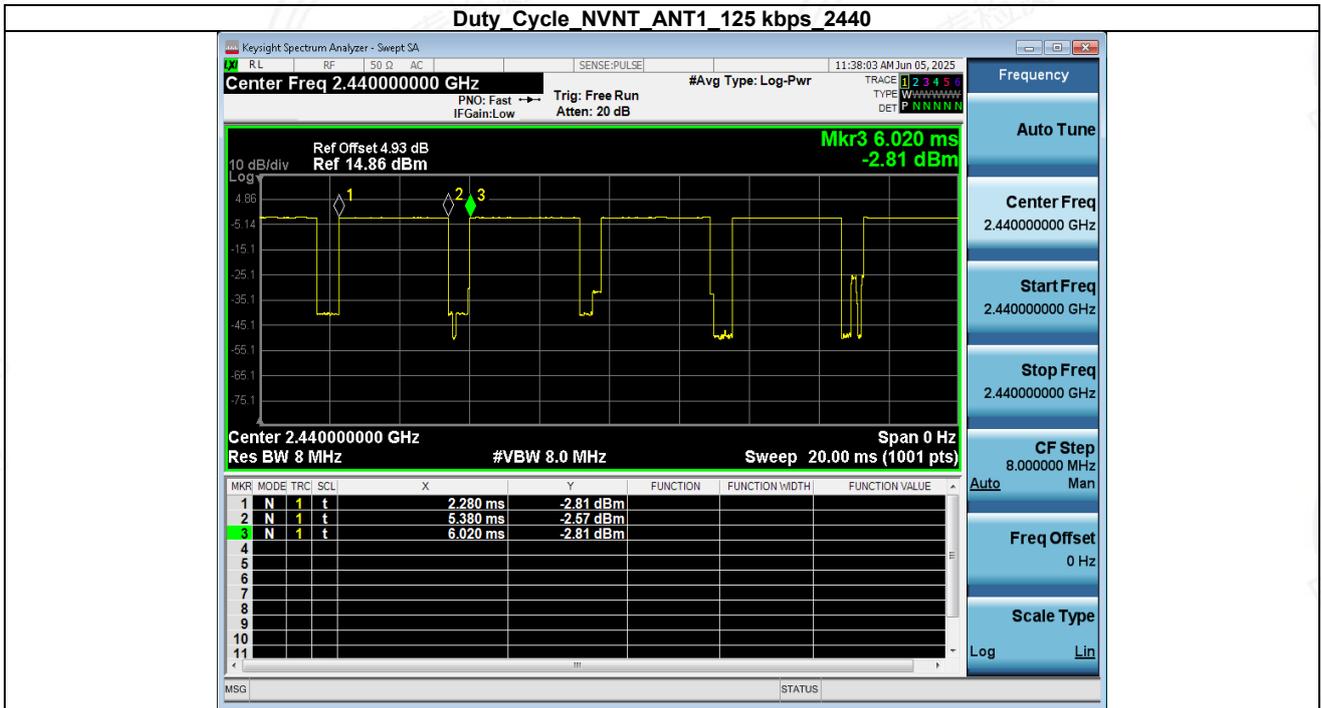
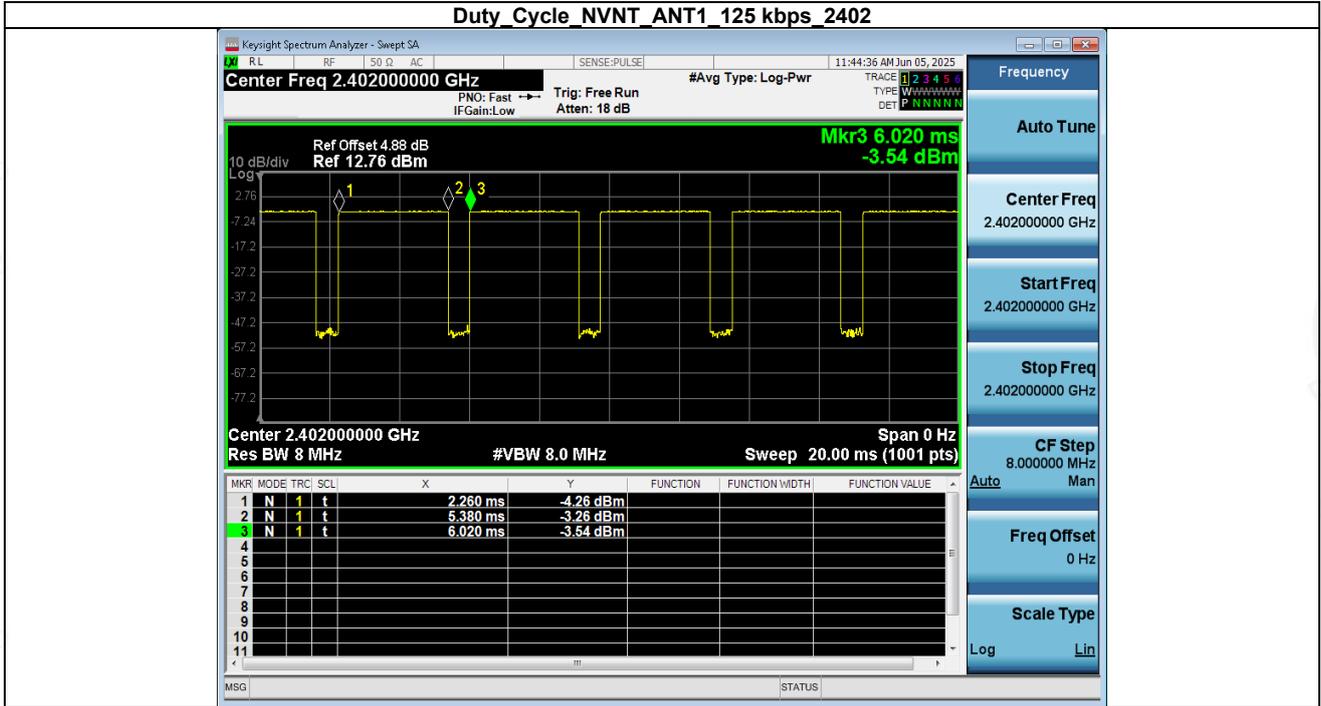
99% Occupied Bandwidth_NVNT_ANT1_125 kbps_2480





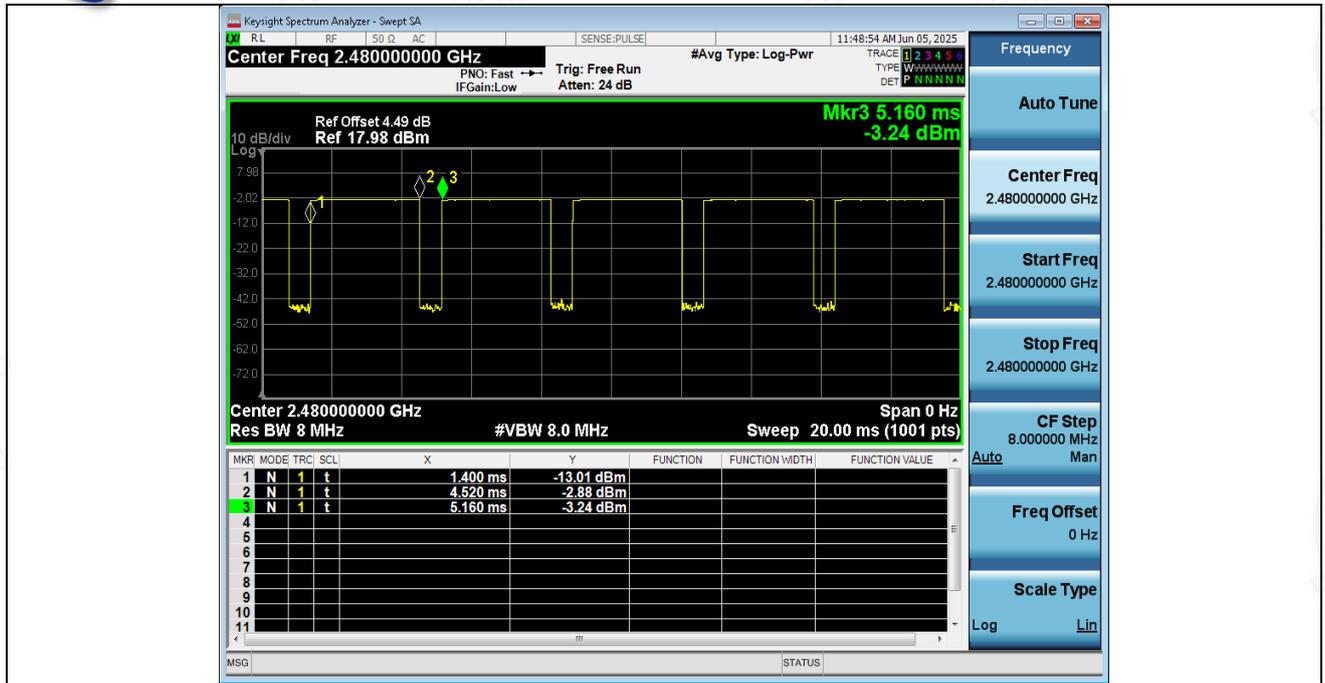
3. Duty Cycle

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	83.51	0.78



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	-3.20	0.48	1000	Pass
NVNT	ANT1	125 kbps	2440.00	-1.22	0.76	1000	Pass
NVNT	ANT1	125 kbps	2480.00	-2.87	0.52	1000	Pass



Peak_Output_Power_NVNT_ANT1_125_kbps_2480





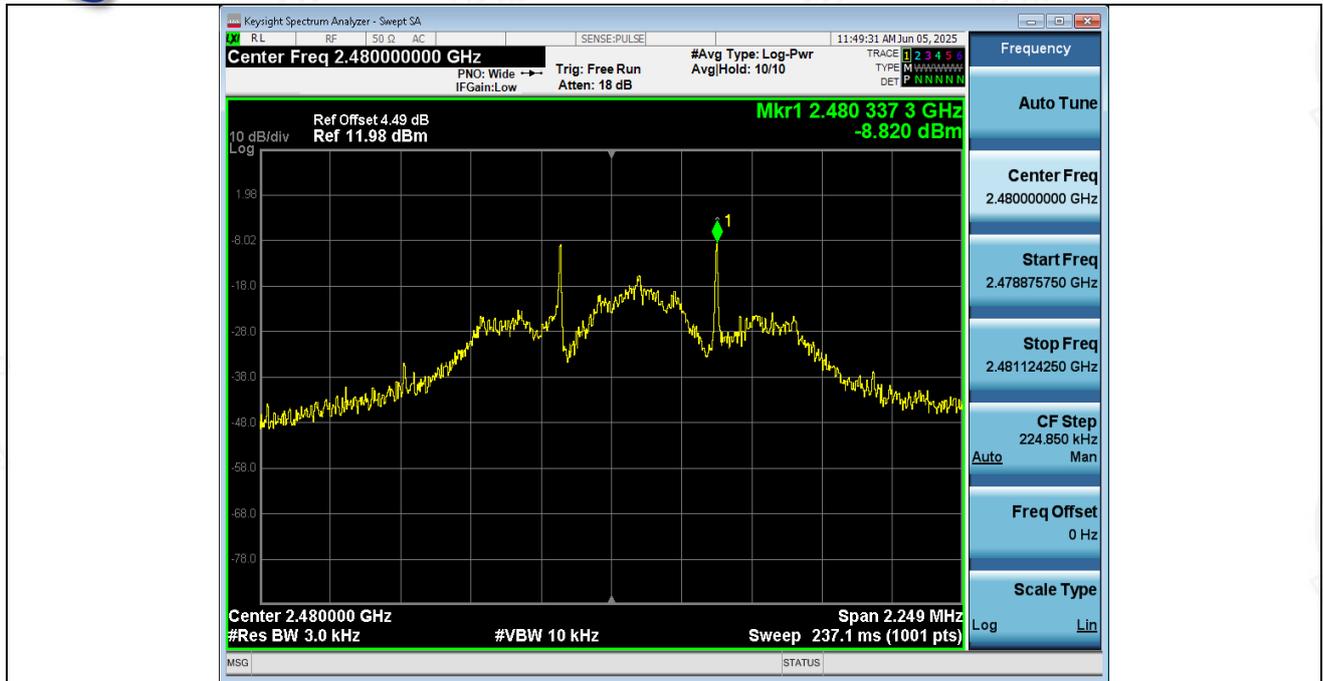
5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	125 kbps	2402.00	-9.10	8	Pass
NVNT	ANT1	125 kbps	2440.00	-8.34	8	Pass
NVNT	ANT1	125 kbps	2480.00	-8.82	8	Pass



Power Spectral Density NVNT ANT1 125 kbps 2480





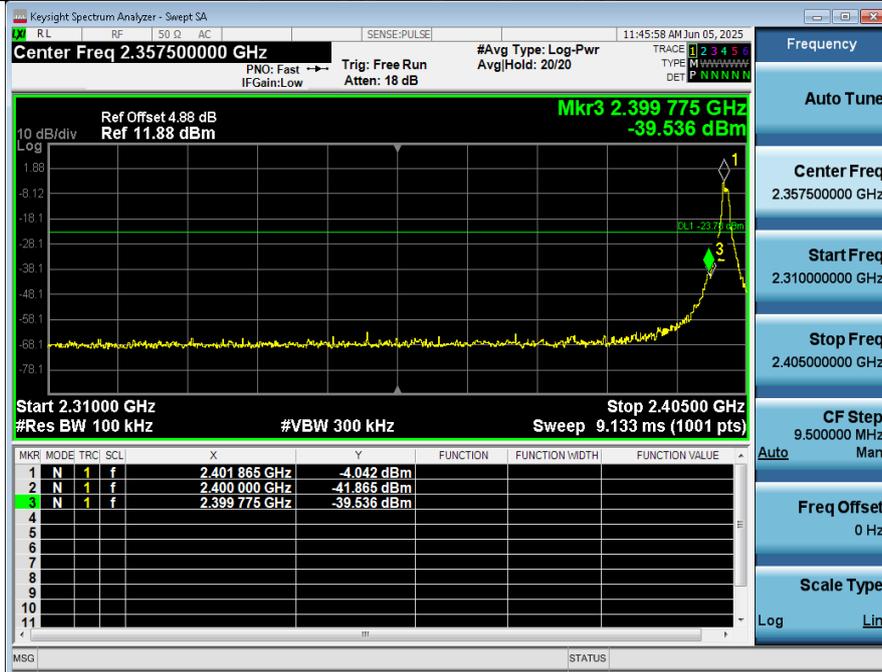
6. Bandedge

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	2399.775	-3.776	-39.536	-23.776	Pass
NVNT	ANT1	125 kbps	2480.00	2483.525	-3.589	-51.957	-23.589	Pass

1 Reference Level NVNT_ANT1_125 kbps_2402



2 Bandedge NVNT_ANT1_125 kbps_2402

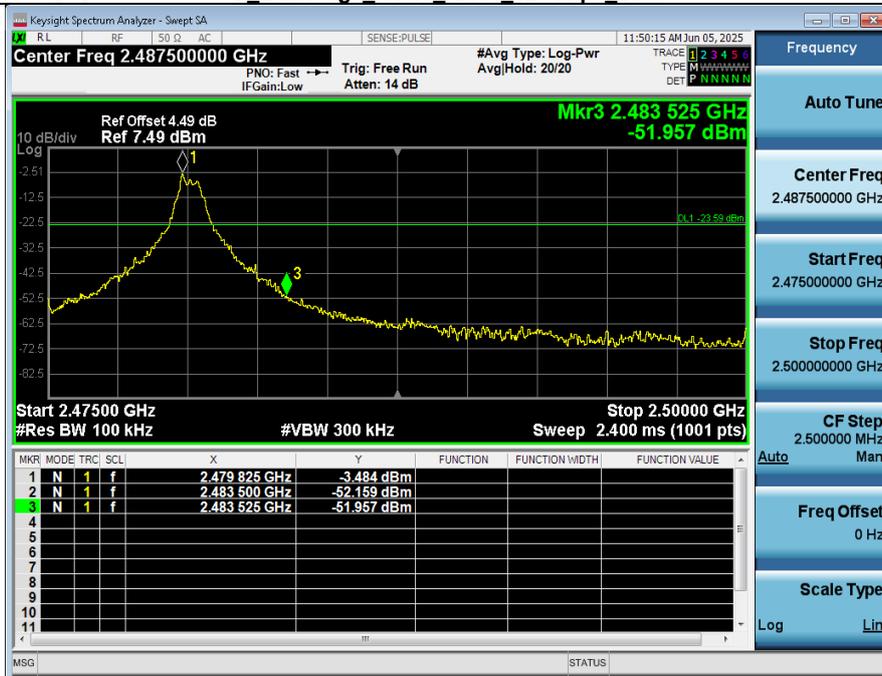


1 Reference Level NVNT_ANT1_125 kbps_2480





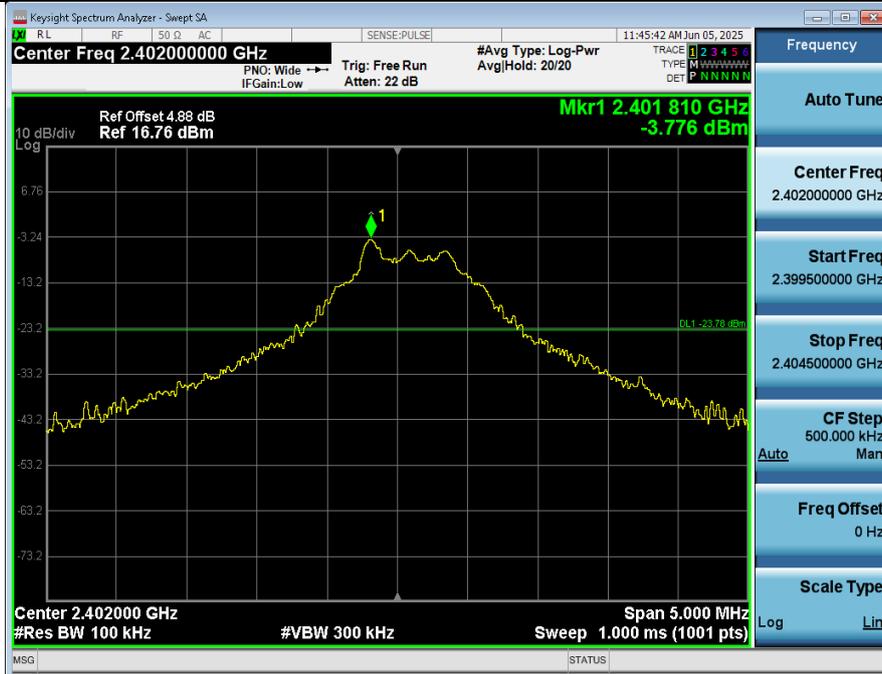
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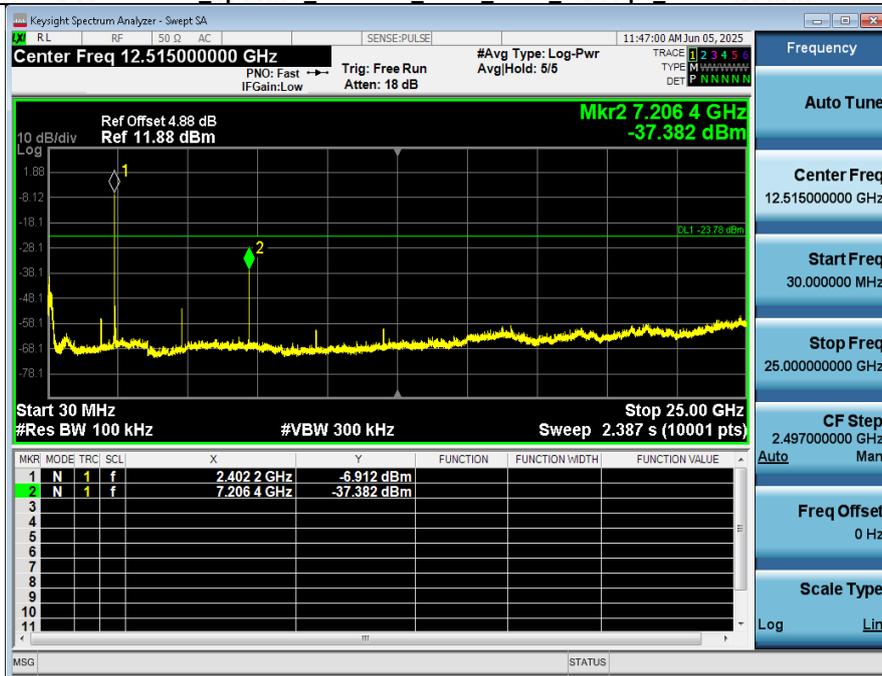
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	125 kbps	2402.00	-3.776	-37.382	-23.776	Pass
NVNT	ANT1	125 kbps	2440.00	-3.126	-37.862	-23.126	Pass
NVNT	ANT1	125 kbps	2480.00	-3.406	-34.811	-23.406	Pass

1 Reference Level NVNT_ANT1_125 kbps_2402



2 Spurious Emission NVNT_ANT1_125 kbps_2402

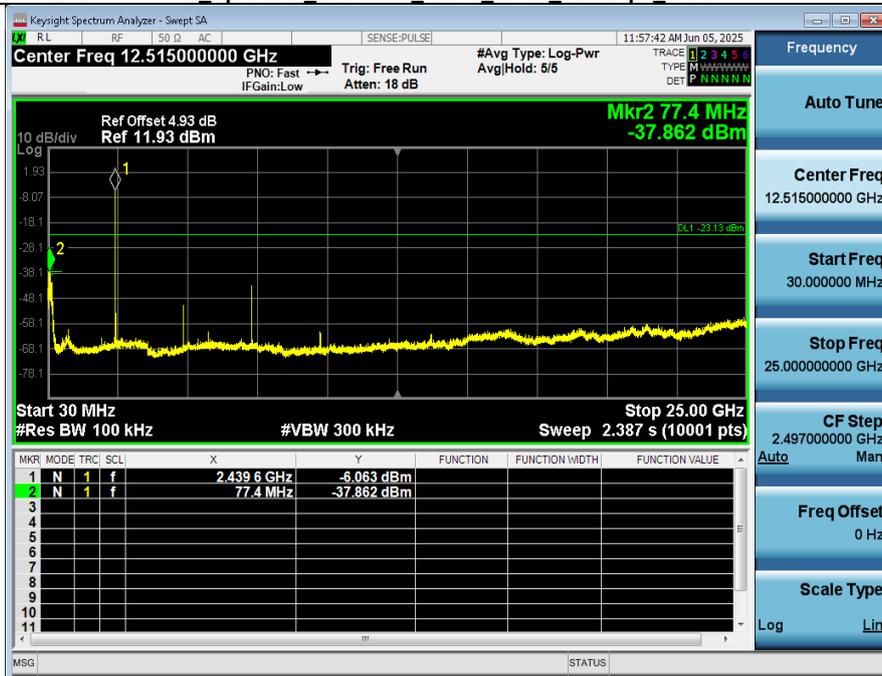


1 Reference Level NVNT_ANT1_125 kbps_2440





2_Spurious_Emission_NVNT_ANT1_125 kbps_2440



1_Reference_Level_NVNT_ANT1_125 kbps_2480





2 Spurious Emission_NVNT_ANT1_125 kbps_2480

