

Appendix

Test Data

for BTEK250512035A01-T01

Start date	2025/5/27	Finish date	2025/5/27
Temperature	22.5℃	Humidity	51%
RF specifications	BLE_125 kbps	Test Engineer	Zora



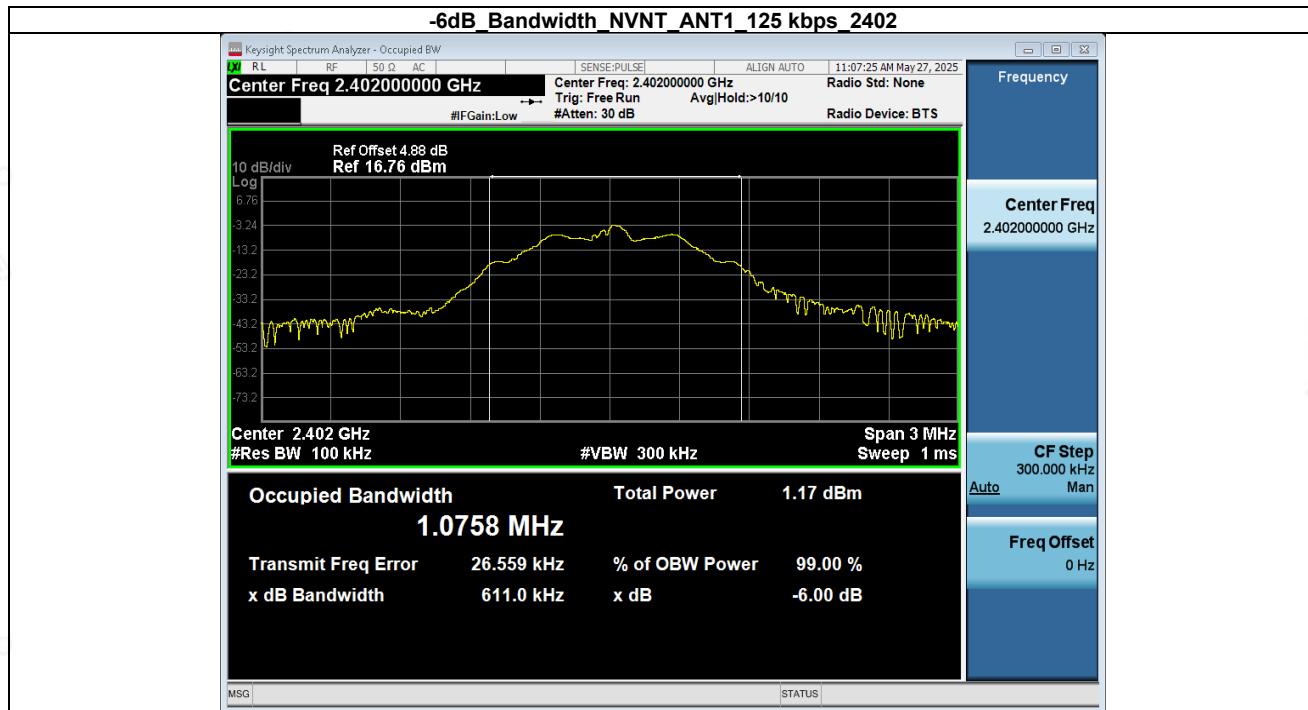
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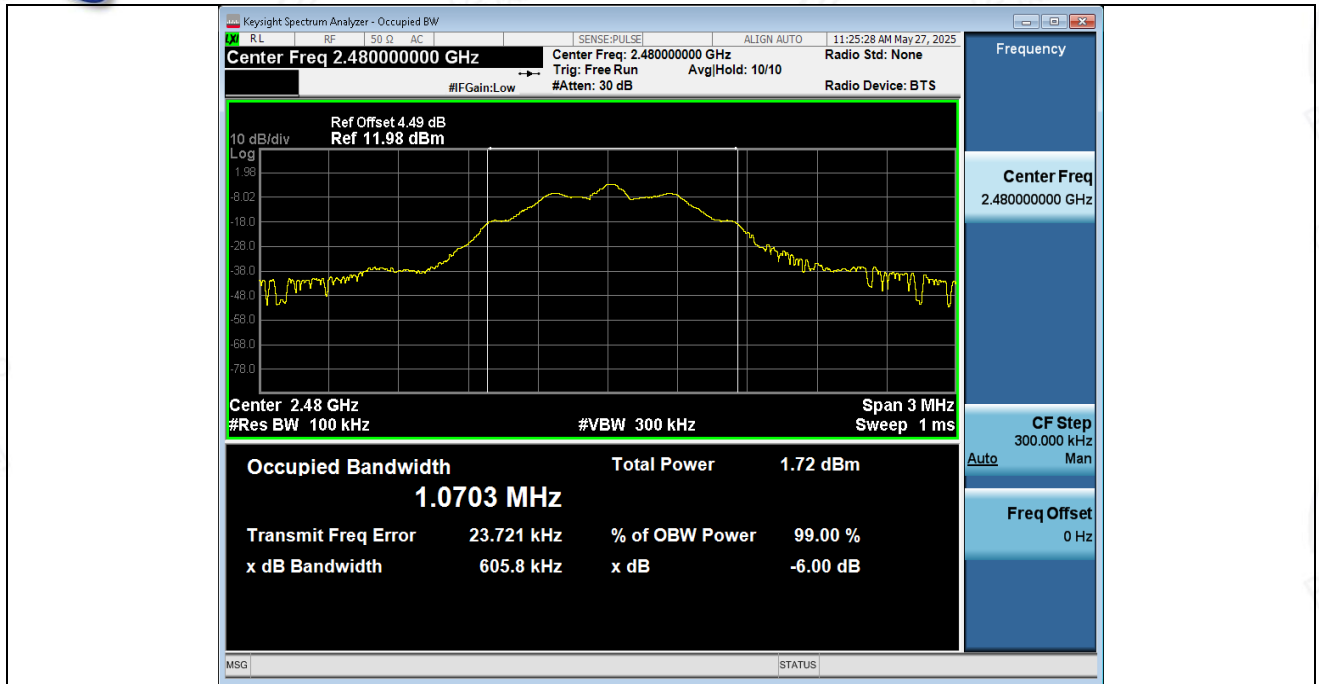
1. -6dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	125 kbps	2402.00	610.96	500	Pass
NVNT	ANT1	125 kbps	2440.00	611.31	500	Pass
NVNT	ANT1	125 kbps	2480.00	605.78	500	Pass



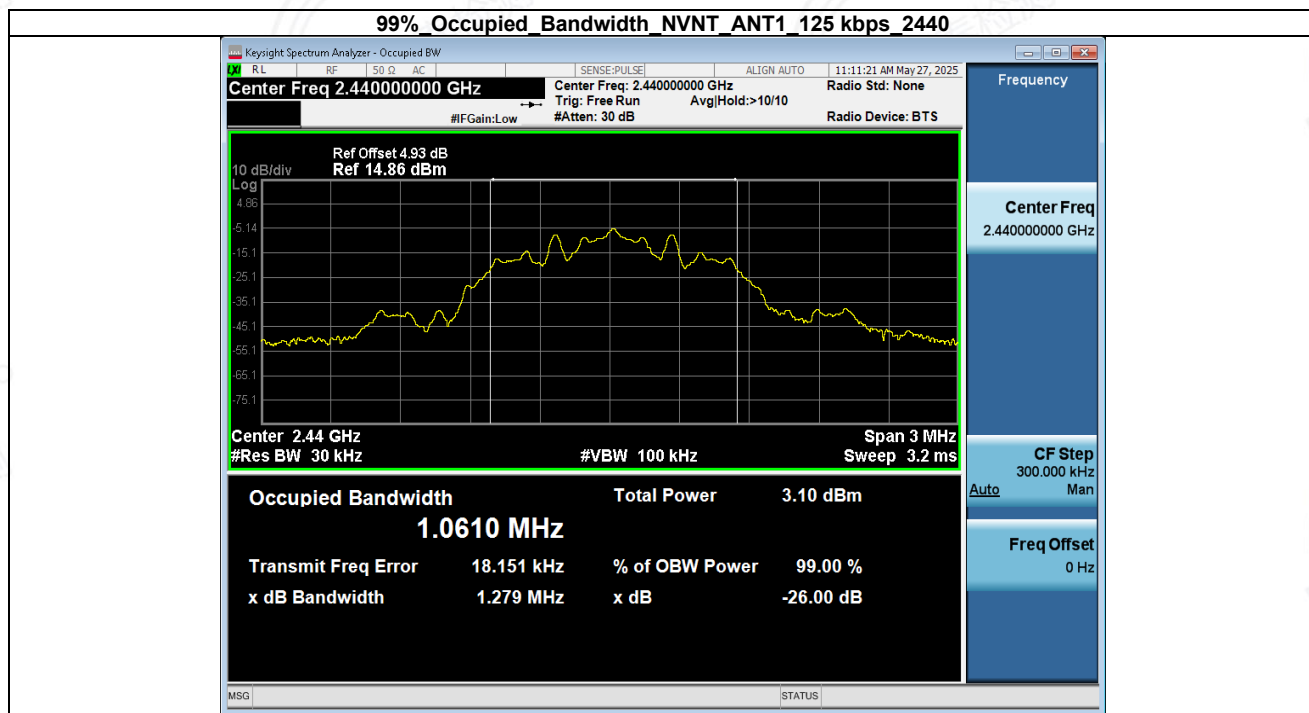
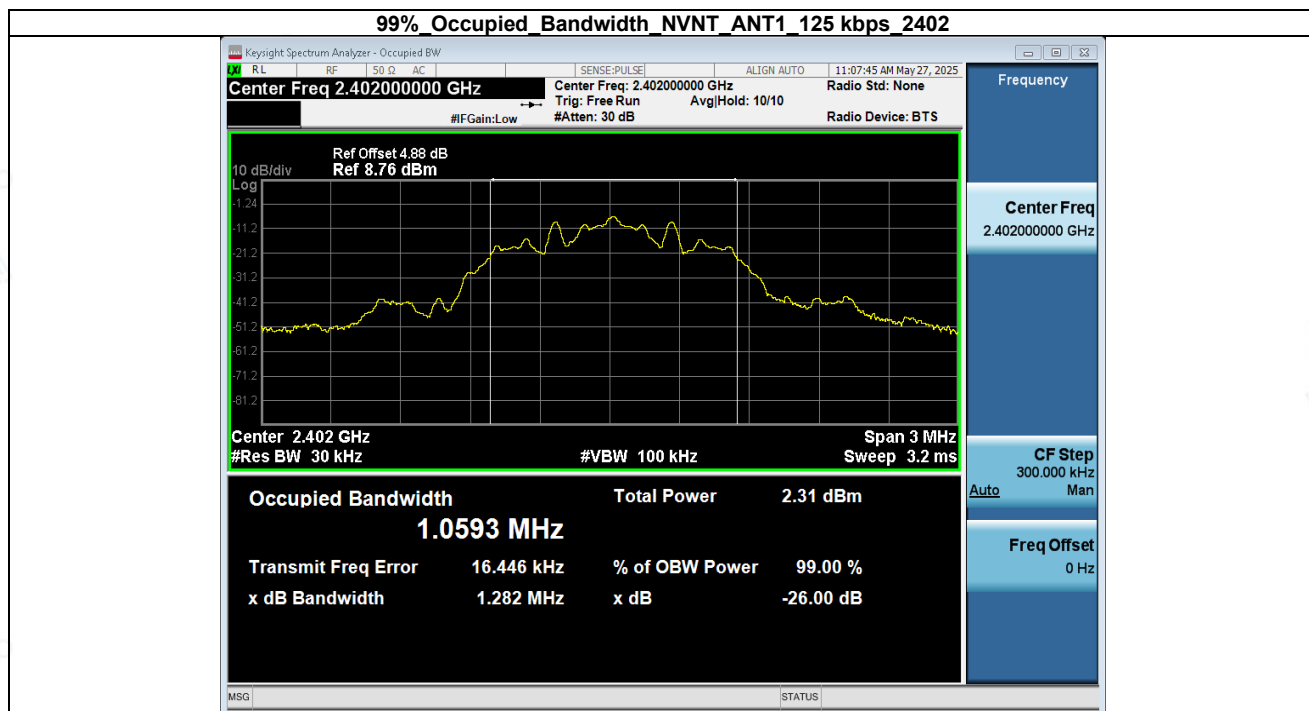
-6dB_Bandwidth_NVNT_ANT1_125 kbps_2480





2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	125 kbps	2402.00	1.059
NVNT	ANT1	125 kbps	2440.00	1.061
NVNT	ANT1	125 kbps	2480.00	1.065



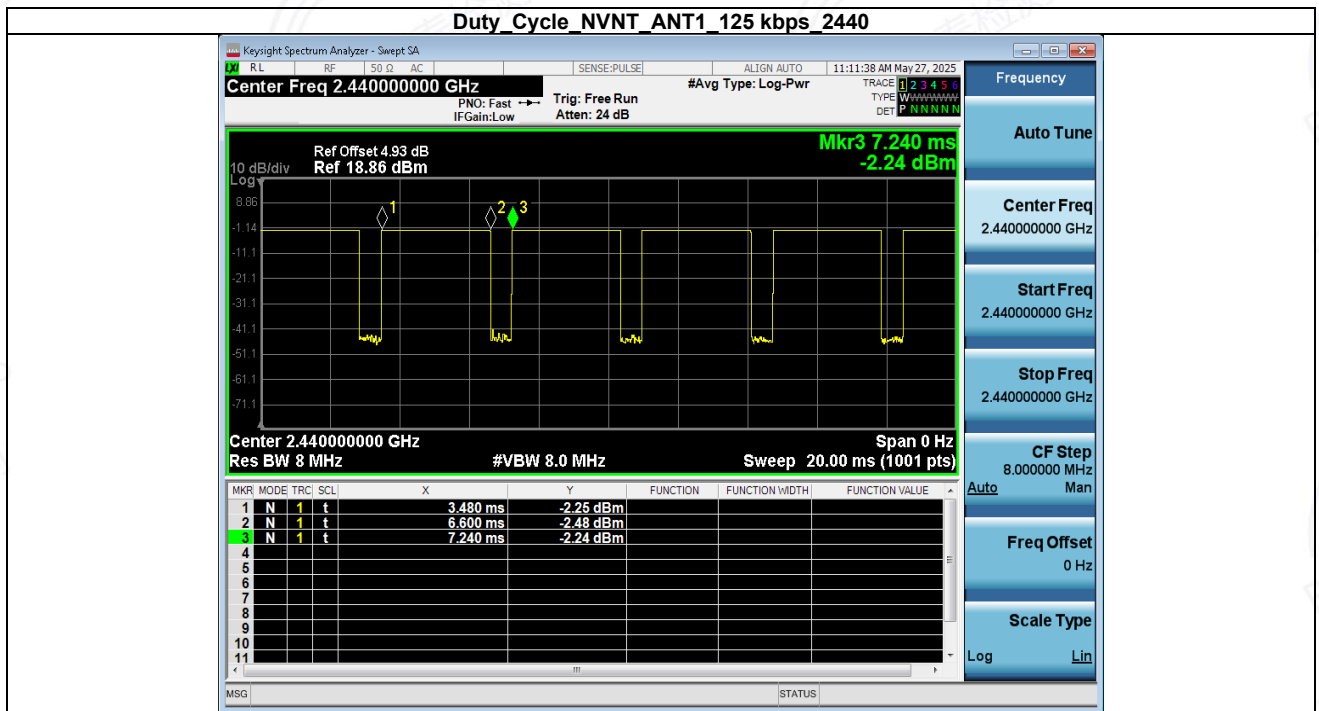
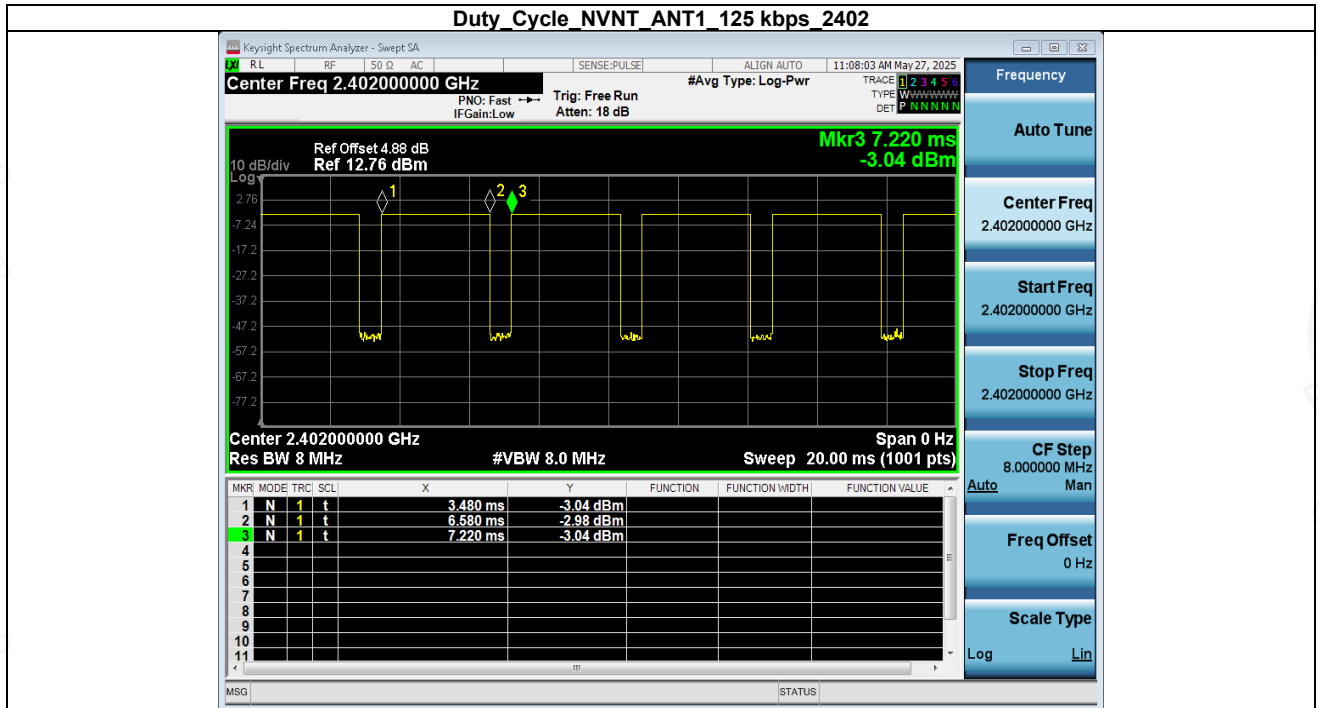
99% Occupied Bandwidth_NVNT_ANT1_125 kbps_2480





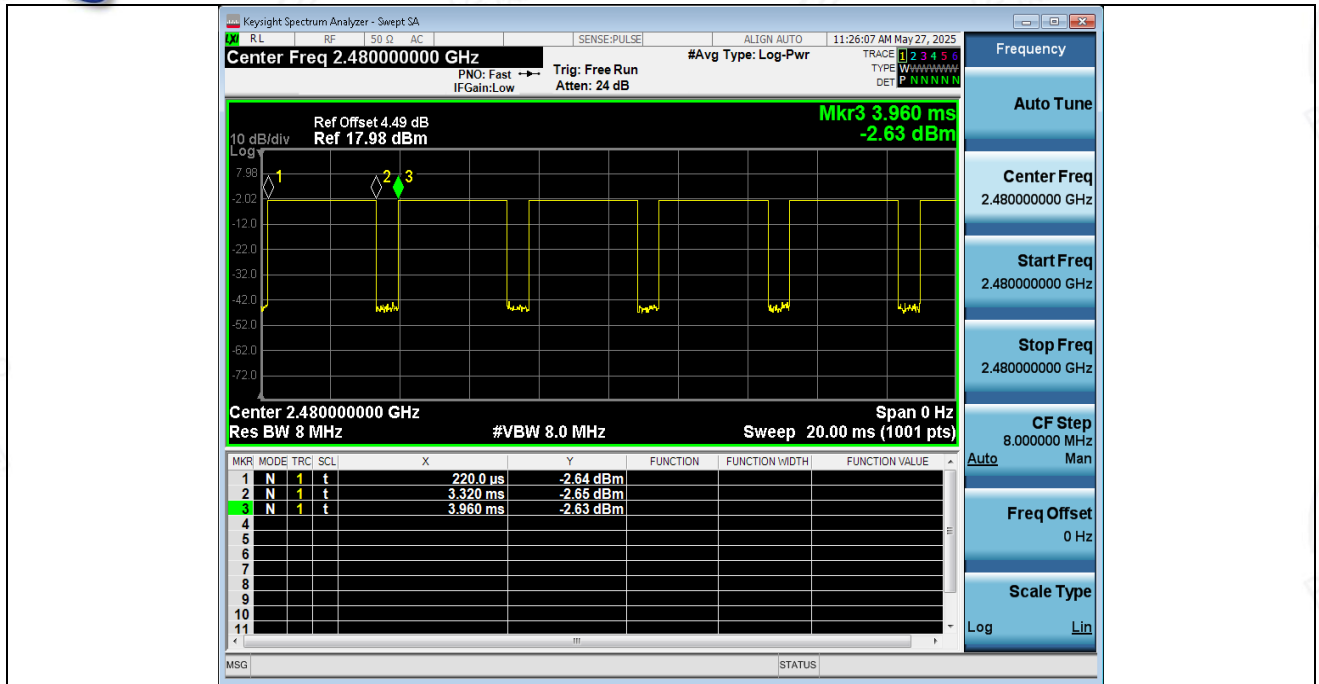
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	125 kbps	2402.00	83.42	0.79
NVNT	ANT1	125 kbps	2440.00	83.51	0.78
NVNT	ANT1	125 kbps	2480.00	82.89	0.82



Duty Cycle_NVNT_ANT1_125 kbps_2480





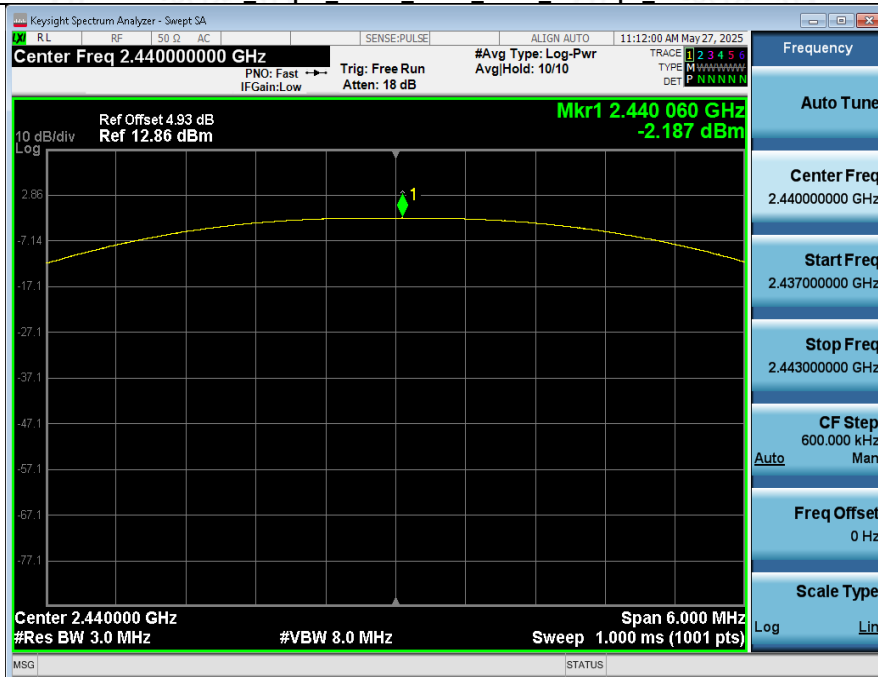
4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	125 kbps	2402.00	-2.97	0.50	1000	Pass
NVNT	ANT1	125 kbps	2440.00	-2.19	0.60	1000	Pass
NVNT	ANT1	125 kbps	2480.00	-2.66	0.54	1000	Pass

Peak_Output_Power_NVNT_ANT1_125 kbps_2402



Peak_Output_Power_NVNT_ANT1_125 kbps_2440



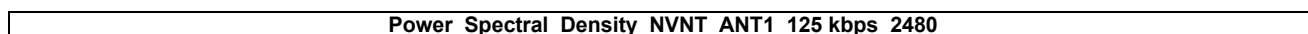
Peak_Output_Power_NVNT_ANT1_125 kbps_2480





5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	125 kbps	2402.00	-9.22	8	Pass
NVNT	ANT1	125 kbps	2440.00	-8.50	8	Pass
NVNT	ANT1	125 kbps	2480.00	-8.84	8	Pass

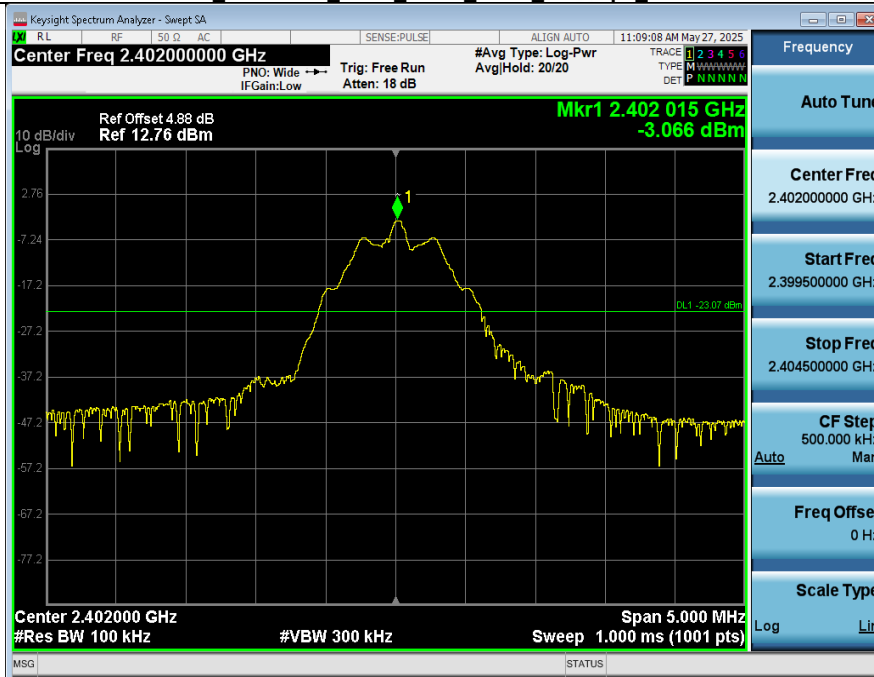




6. Bandedge

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	2399.870	-3.066	-43.617	-23.066	Pass
NVNT	ANT1	125 kbps	2480.00	2483.600	-2.715	-48.149	-22.715	Pass

1. Reference Level NVNT_ANT1_125 kbps_2402

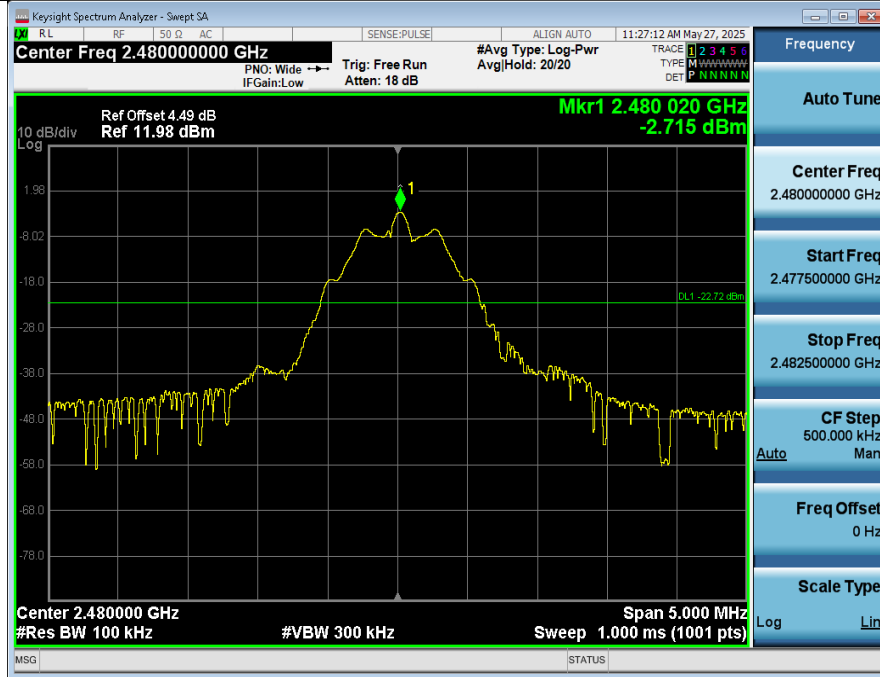


2. Bandedge NVNT_ANT1_125 kbps_2402



1. Reference Level NVNT_ANT1_125 kbps_2480





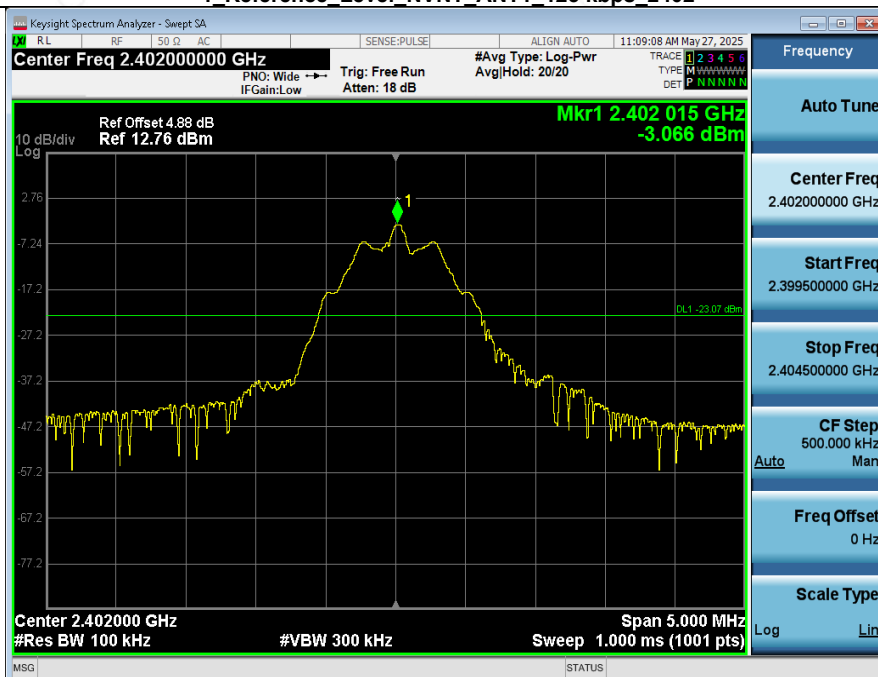
2_Bandedge_NVNT_ANT1_125 kbps_2480



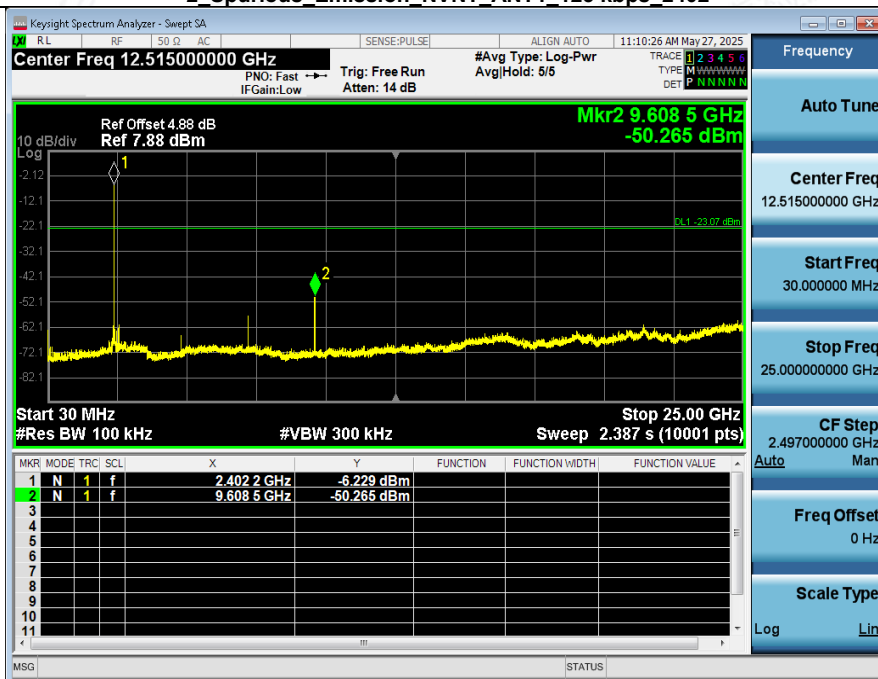
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	125 kbps	2402.00	-3.066	-50.265	-23.066	Pass
NVNT	ANT1	125 kbps	2440.00	-2.264	-53.421	-22.264	Pass
NVNT	ANT1	125 kbps	2480.00	-2.715	-55.478	-22.715	Pass

1. Reference Level NVNT_ANT1_125 kbps_2402

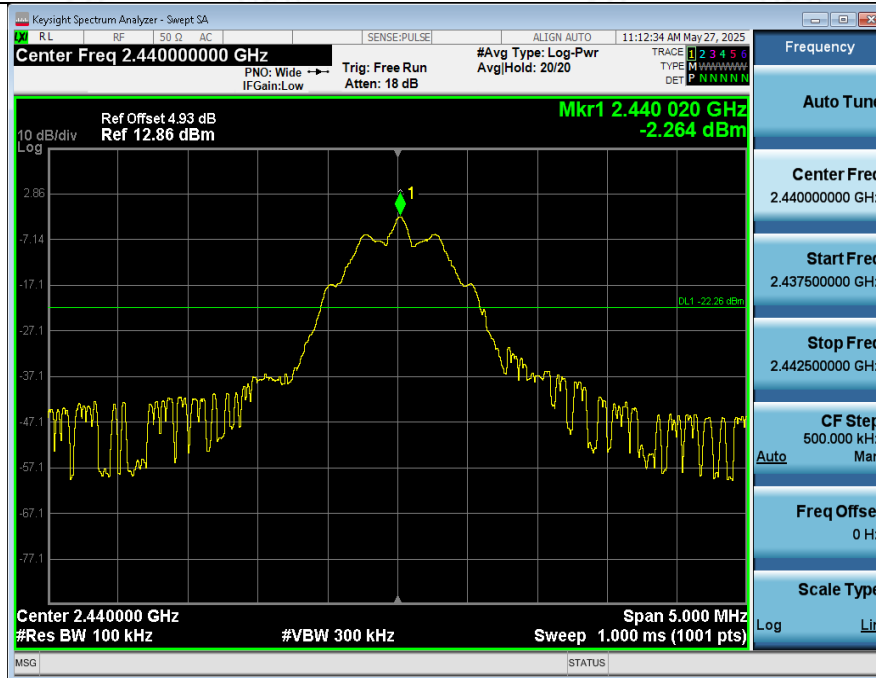


2. Spurious Emission NVNT_ANT1_125 kbps_2402

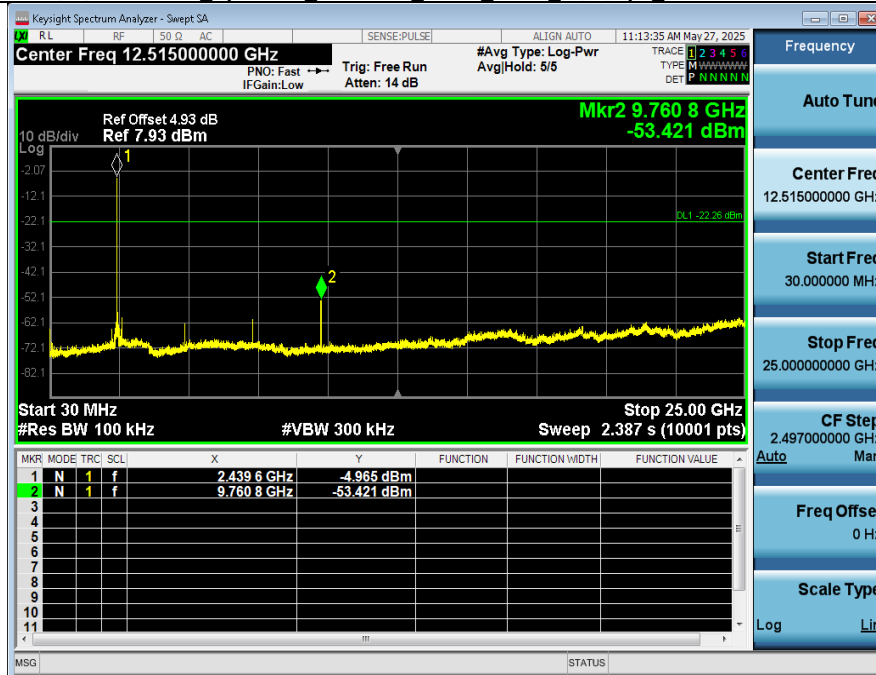


1. Reference Level NVNT_ANT1_125 kbps_2440



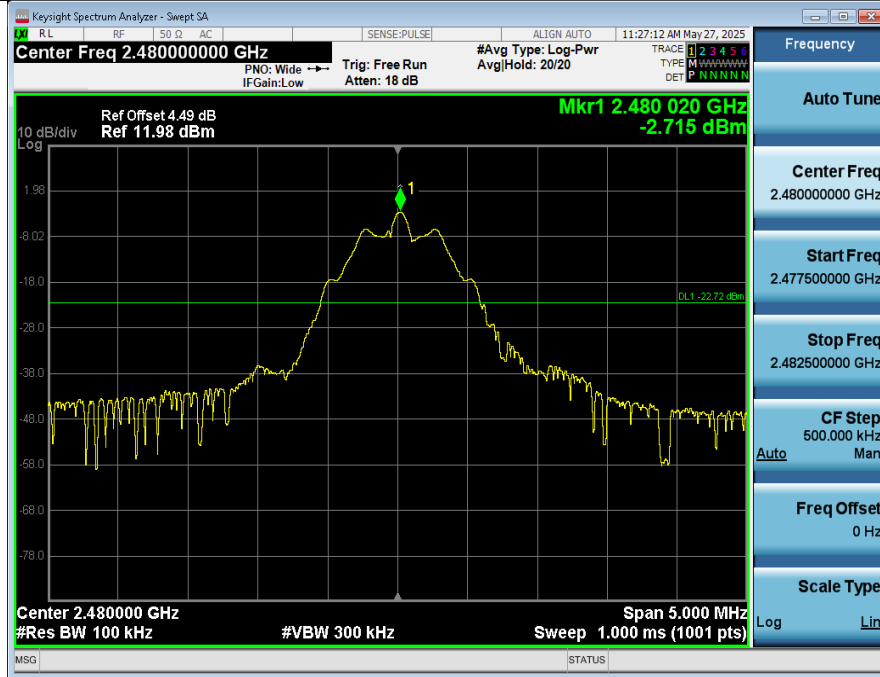


2_Spurious_Emission_NVNT_ANT1_125 kbps_2440



1_Reference_Level_NVNT_ANT1_125 kbps_2480





2_Spurious_Emission_NVNT_ANT1_125_kbps_2480

