

Appendix

Test Data

for BTEK241227139A02E01

Start date	2025/2/13	Finish date	2025/2/13
Temperature	22.0℃	Humidity	44%
RF specifications	BLE-500 kbps	Test Engineer	Zora



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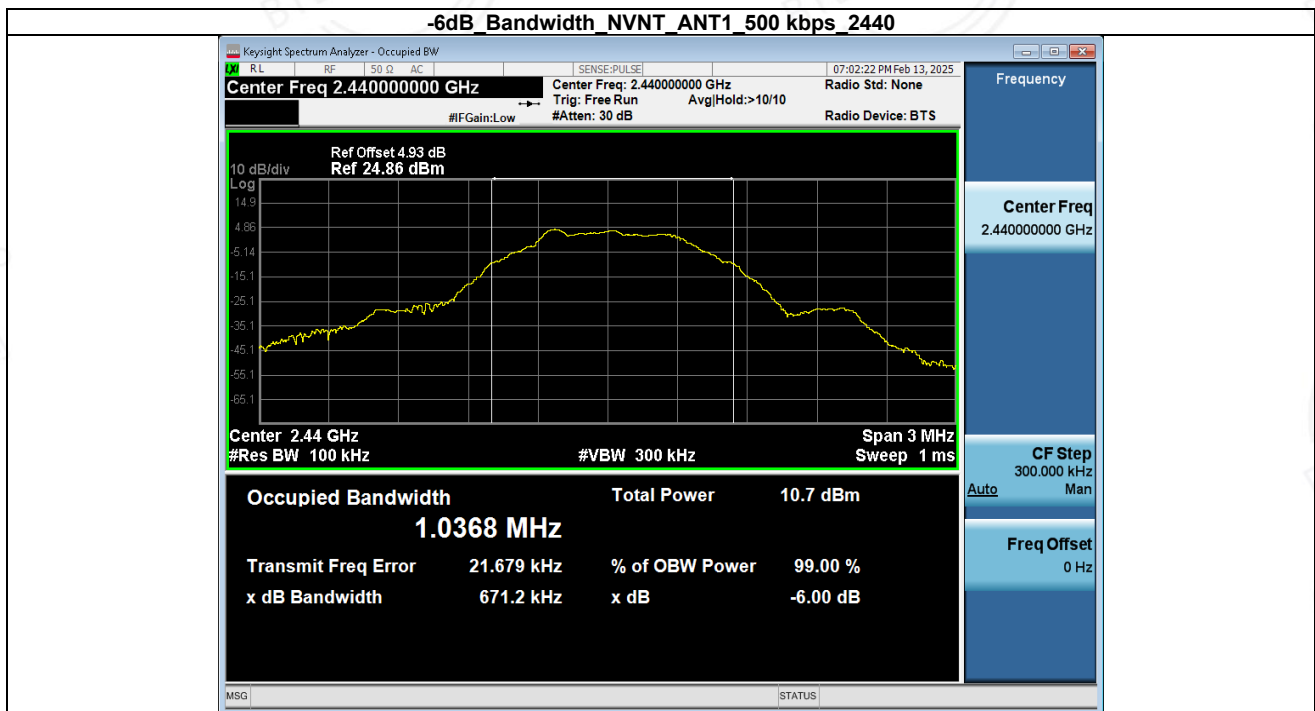
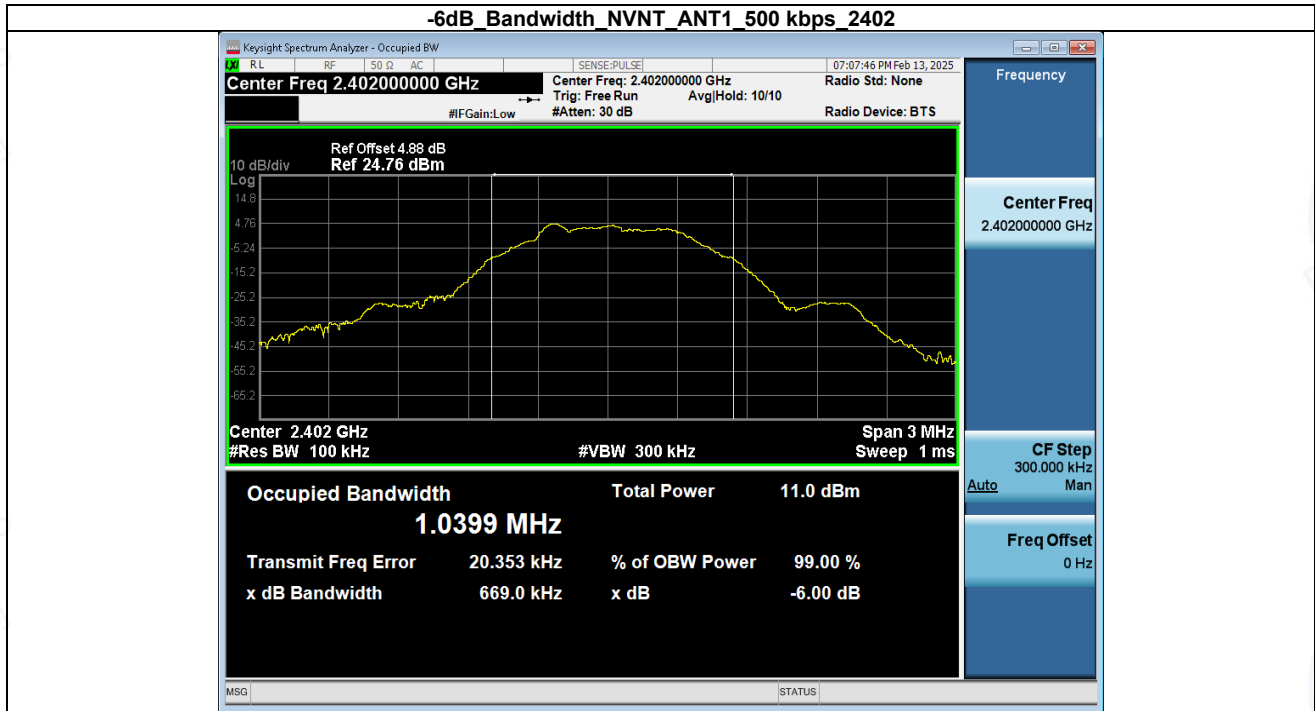


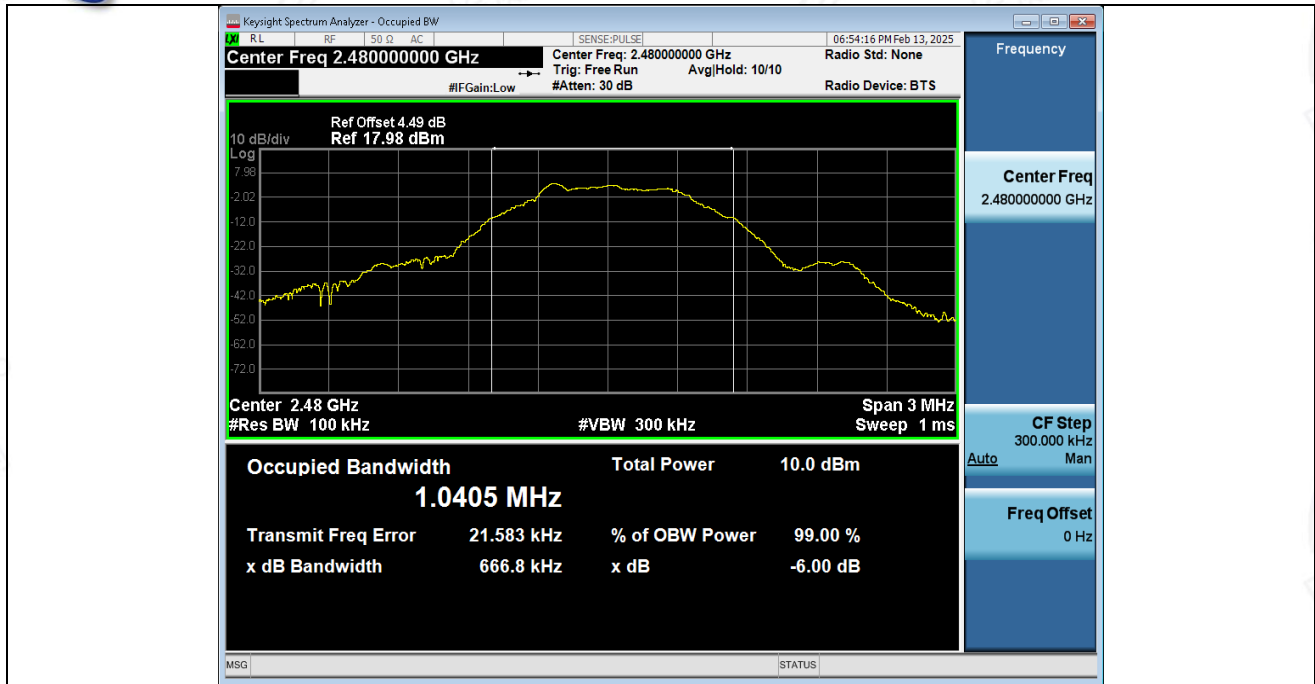
BTEK241227139A02-T01 S2 2.13

FCC_BLE (Part15.247) Test Data

1. -6dB Bandwidth

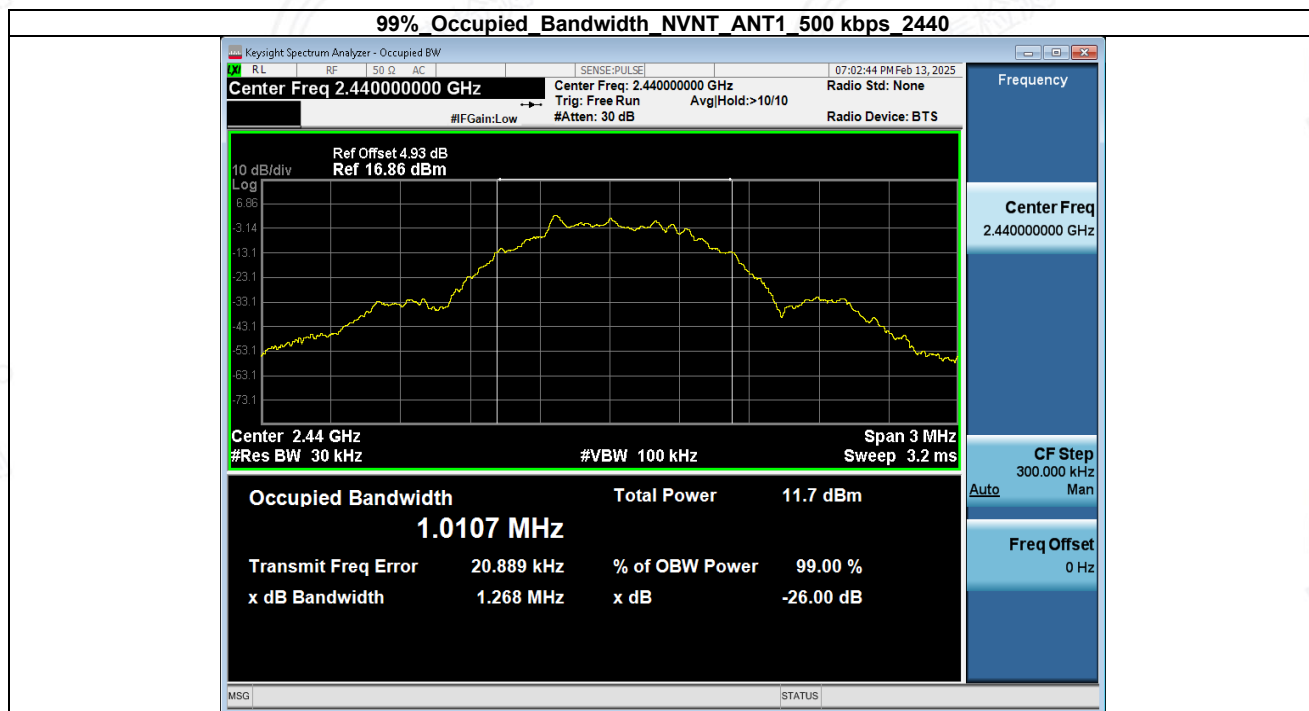
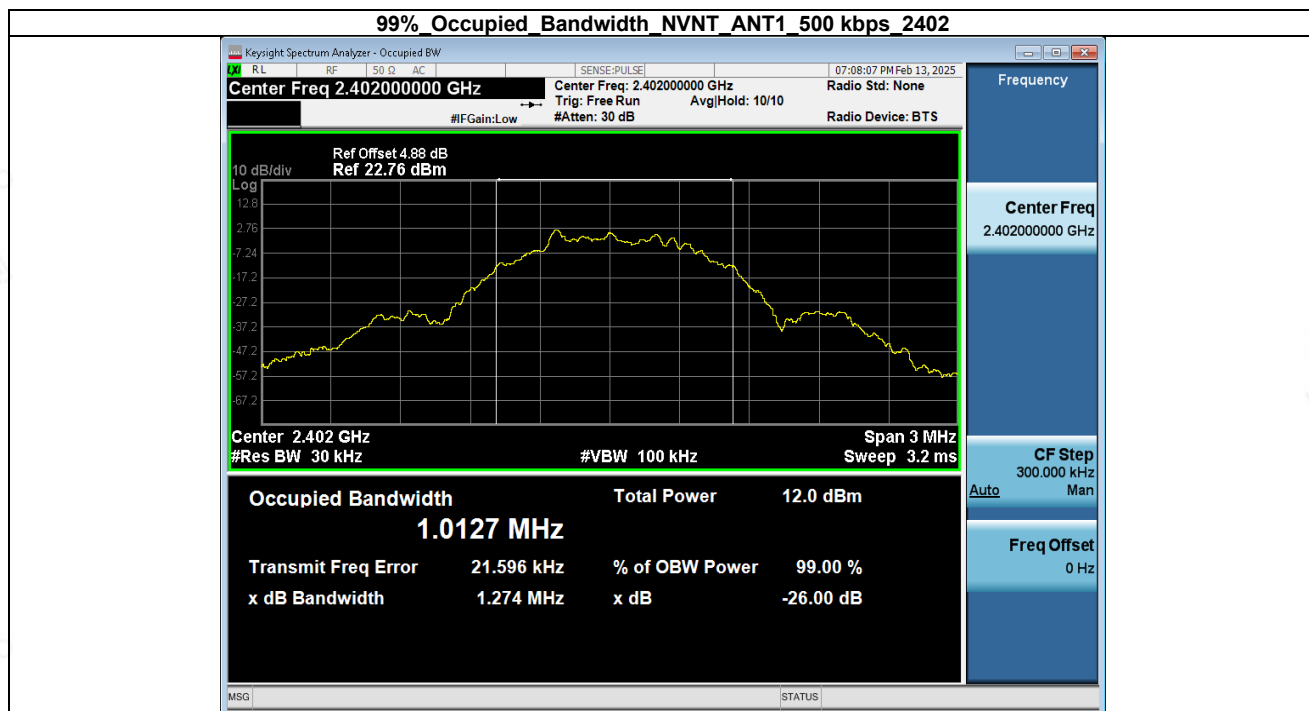
Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	500 kbps	2402.00	669.02	500	Pass
NVNT	ANT1	500 kbps	2440.00	671.17	500	Pass
NVNT	ANT1	500 kbps	2480.00	666.81	500	Pass





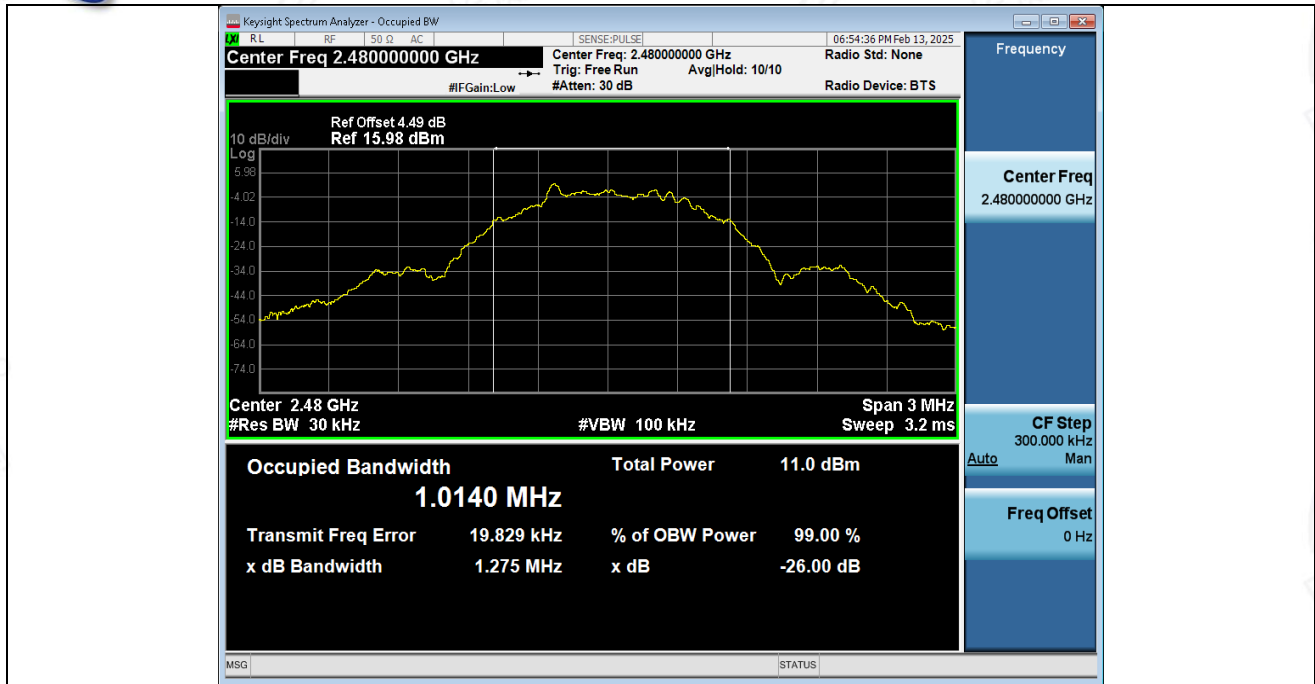
2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	500 kbps	2402.00	1.013
NVNT	ANT1	500 kbps	2440.00	1.011
NVNT	ANT1	500 kbps	2480.00	1.014



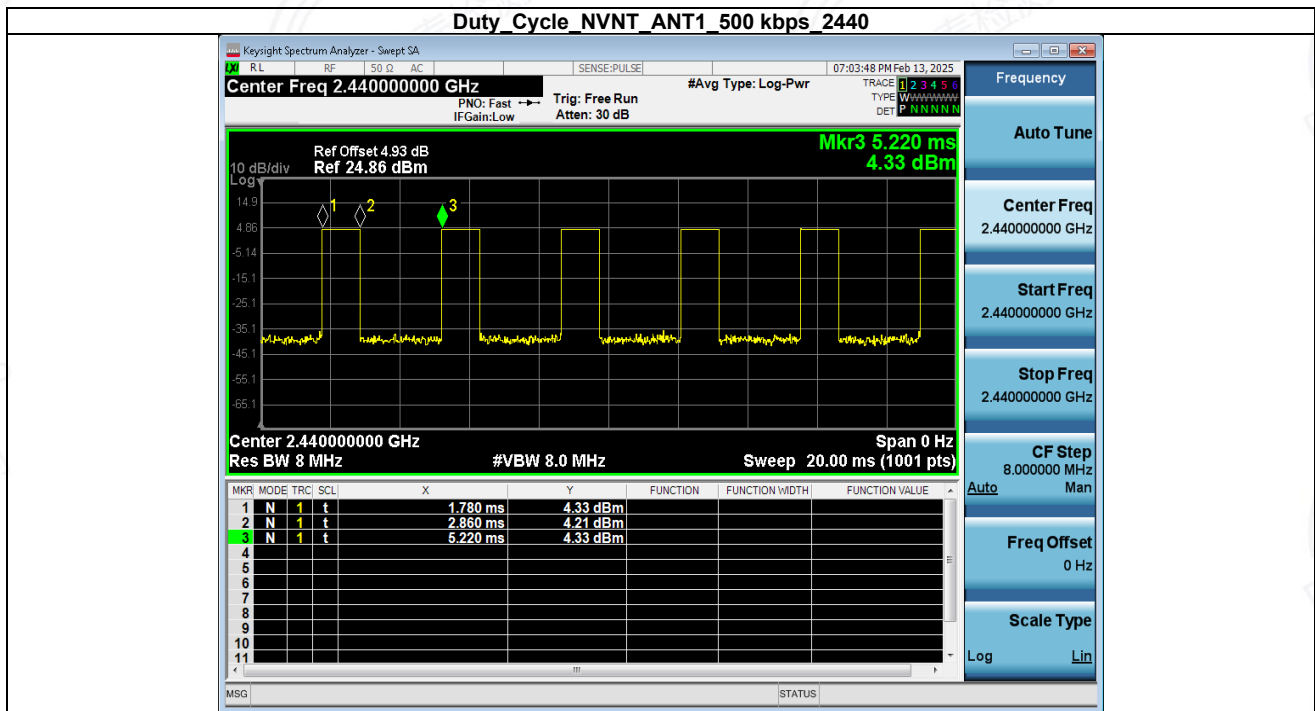
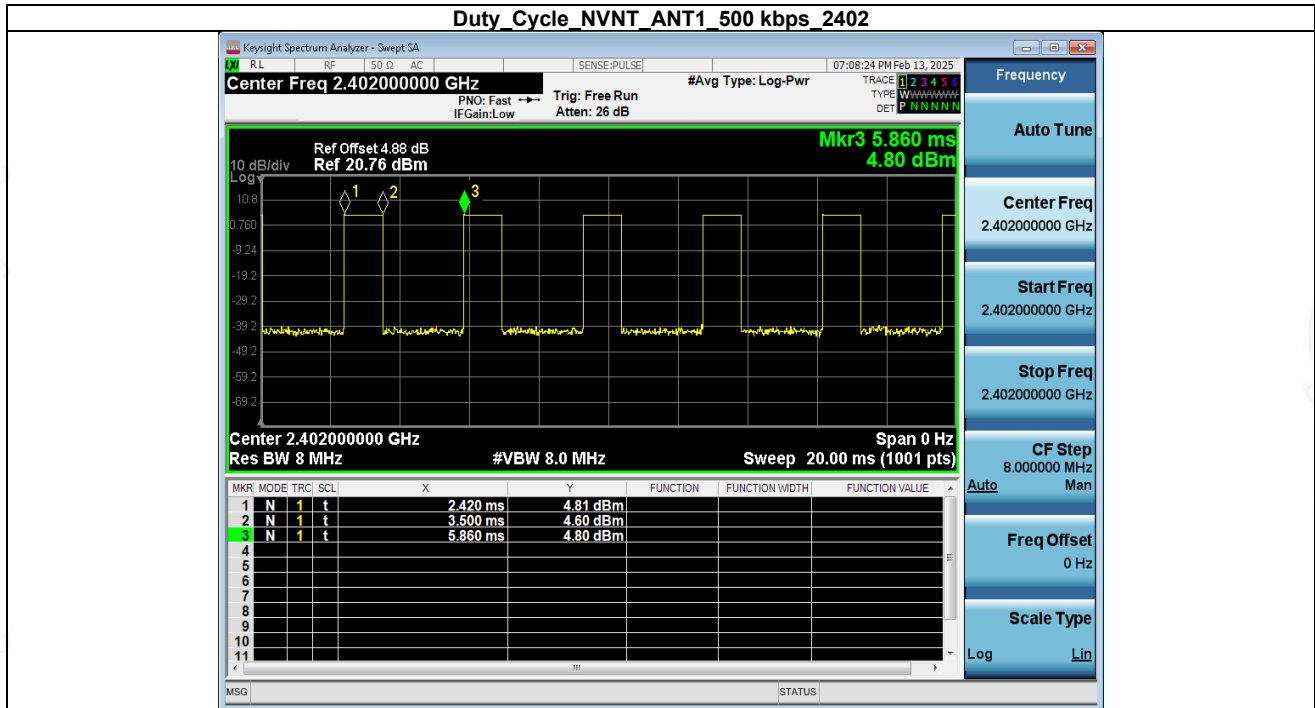
99% Occupied Bandwidth_NVNT_ANT1_500 kbps_2480





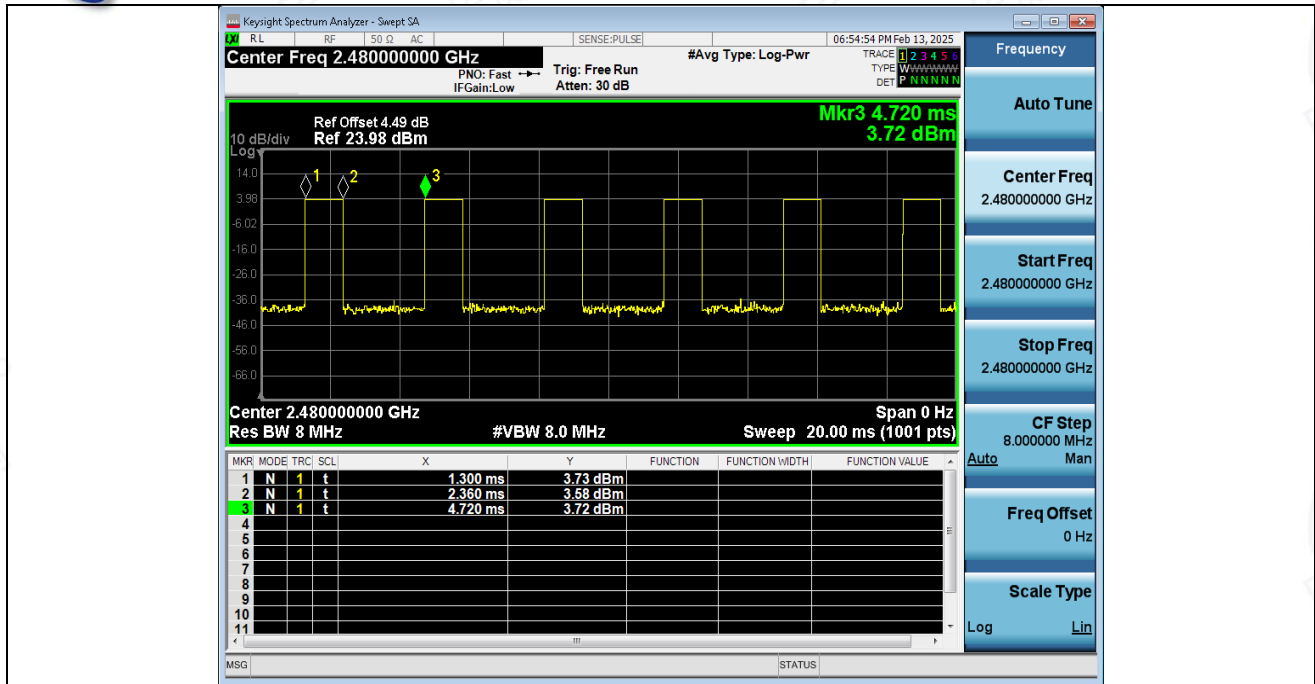
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	500 kbps	2402.00	31.98	4.95
NVNT	ANT1	500 kbps	2440.00	31.40	5.03
NVNT	ANT1	500 kbps	2480.00	30.99	5.09



Duty Cycle_NVNT_ANT1_500 kbps_2480





4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	500 kbps	2402.00	4.70	2.95	1000	Pass
NVNT	ANT1	500 kbps	2440.00	4.26	2.66	1000	Pass
NVNT	ANT1	500 kbps	2480.00	3.65	2.32	1000	Pass

Peak_Output_Power_NVNT_ANT1_500 kbps_2402



Peak_Output_Power_NVNT_ANT1_500 kbps_2440



Peak_Output_Power_NVNT_ANT1_500 kbps_2480

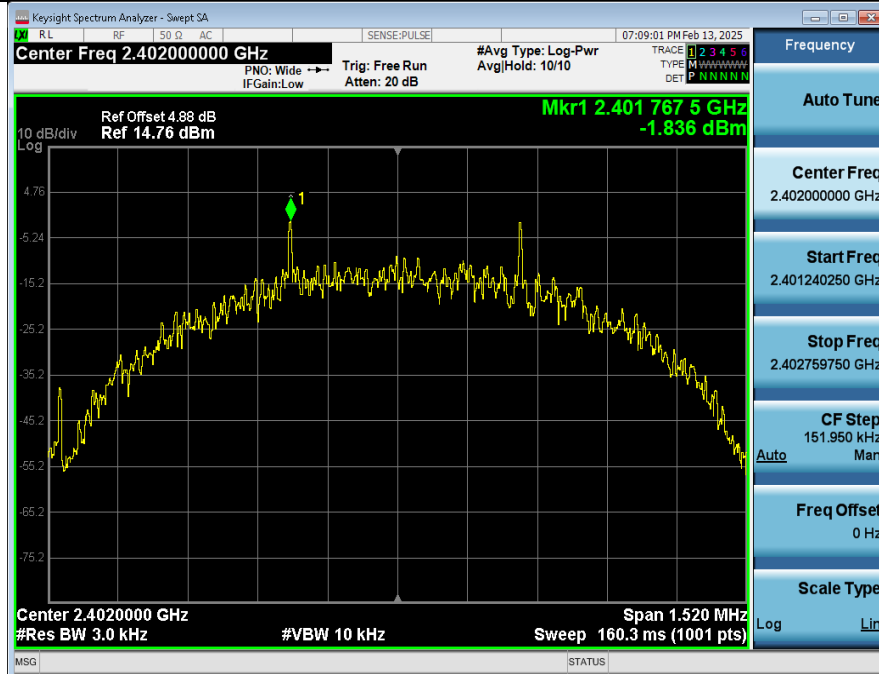




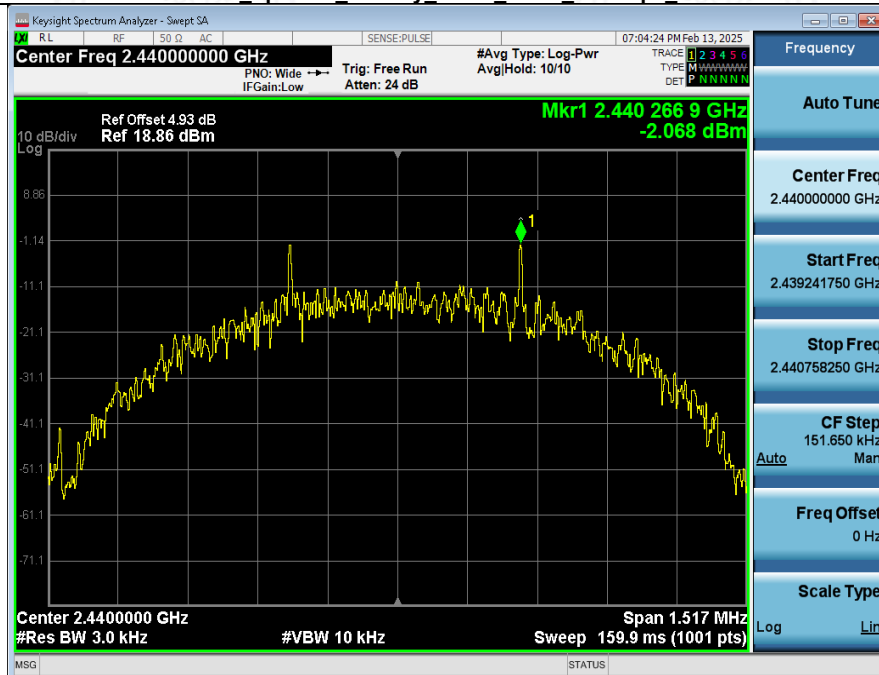
5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	500 kbps	2402.00	-1.84	8	Pass
NVNT	ANT1	500 kbps	2440.00	-2.07	8	Pass
NVNT	ANT1	500 kbps	2480.00	-2.93	8	Pass

Power Spectral Density NVNT ANT1 500 kbps 2402



Power Spectral Density NVNT ANT1 500 kbps 2440



Power Spectral Density NVNT ANT1 500 kbps 2480





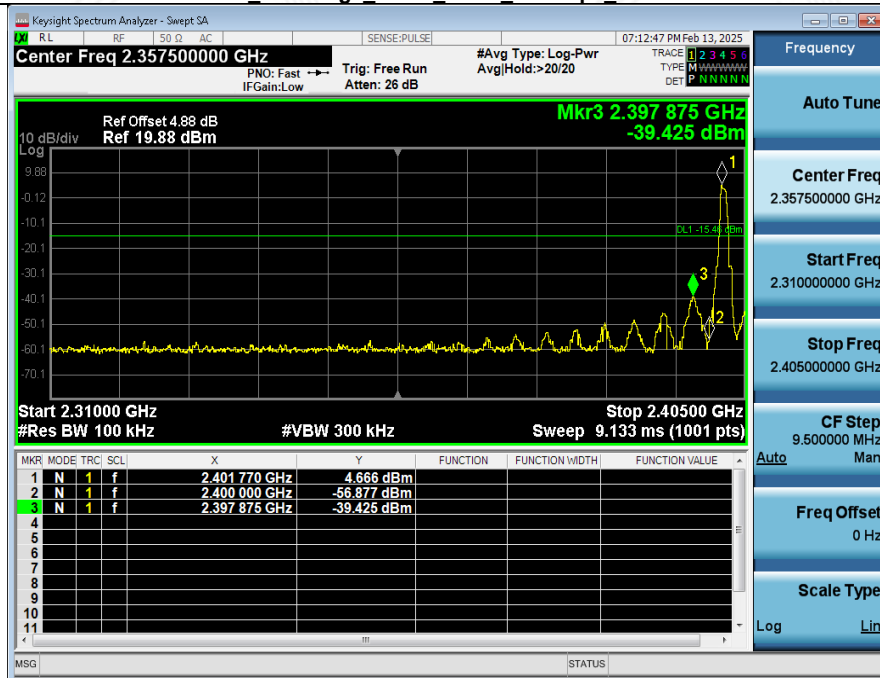
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	500 kbps	2402.00	2397.875	4.540	-39.425	-15.460	Pass
NVNT	ANT1	500 kbps	2480.00	2483.750	3.360	-40.847	-16.640	Pass

1 Reference Level NVNT_ANT1_500 kbps_2402



2 Bandedge NVNT_ANT1_500 kbps_2402

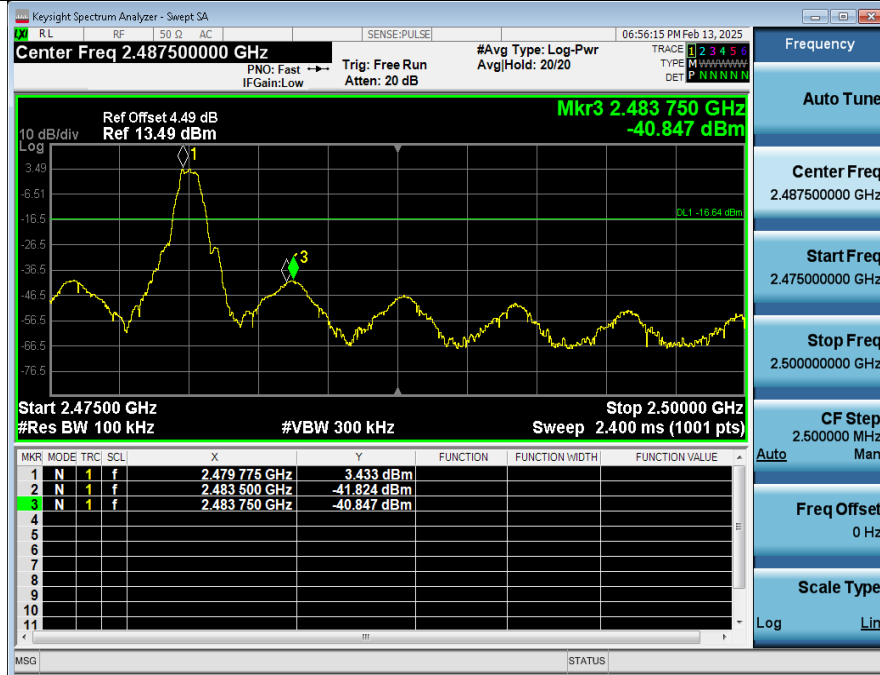


1 Reference Level NVNT_ANT1_500 kbps_2480





2_Bandedge_NVNT_ANT1_500 kbps_2480



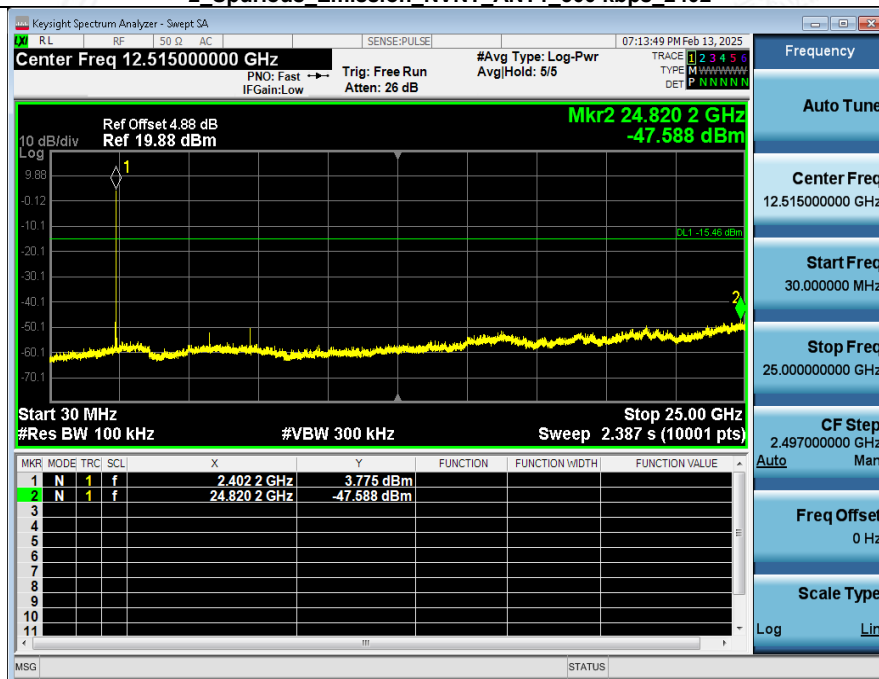
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	500 kbps	2402.00	4.540	-47.588	-15.460	Pass
NVNT	ANT1	500 kbps	2440.00	4.113	-47.661	-15.887	Pass
NVNT	ANT1	500 kbps	2480.00	3.346	-49.144	-16.654	Pass

1 Reference Level NVNT_ANT1_500 kbps 2402



2 Spurious Emission NVNT_ANT1_500 kbps 2402

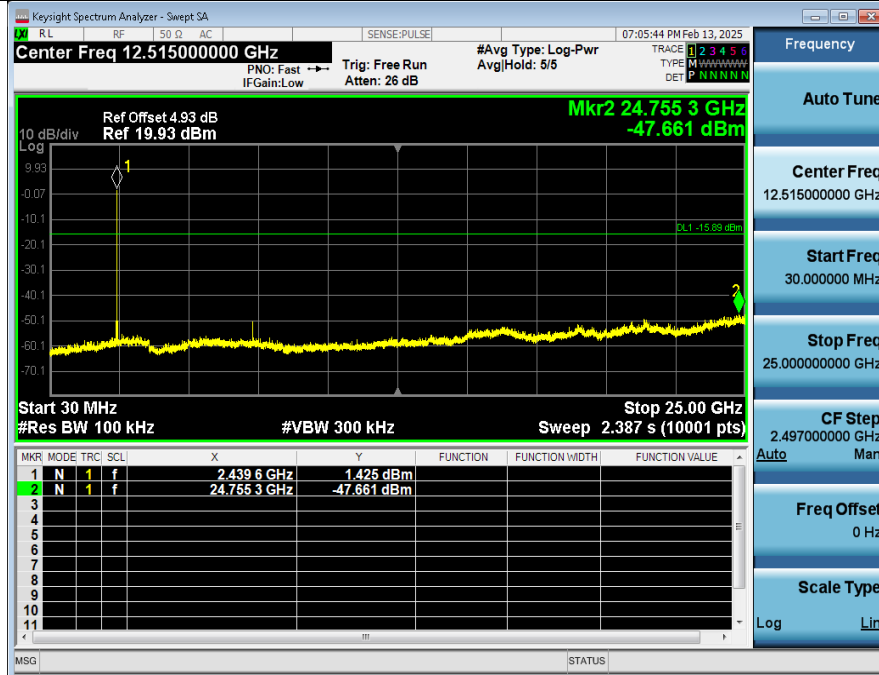


1 Reference Level NVNT_ANT1_500 kbps 2440





2_Spurious_Emission_NVNT_ANT1_500 kbps_2440



1_Reference_Level_NVNT_ANT1_500 kbps_2480





2_Spurious_Emission_NVNT_ANT1_500 kbps_2480

