

Appendix

Test Data

for BTEK250522090A01-T01

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



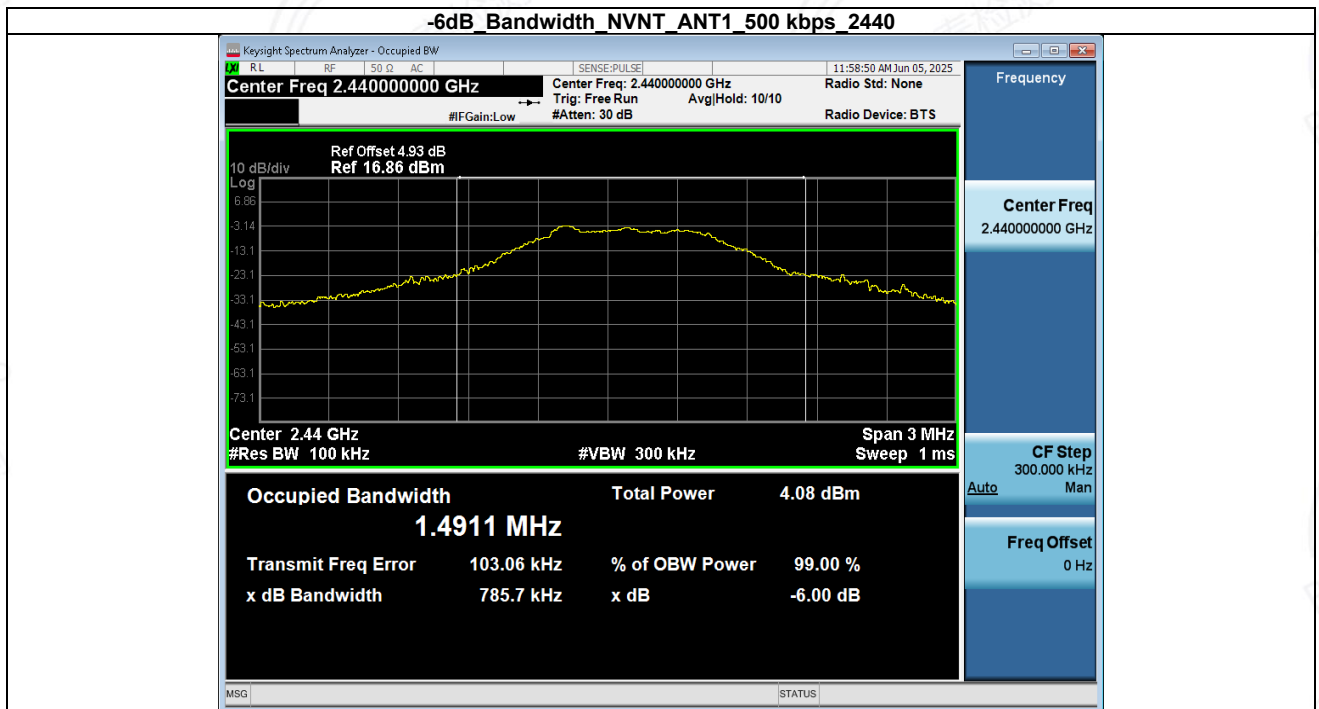
Table of Contents

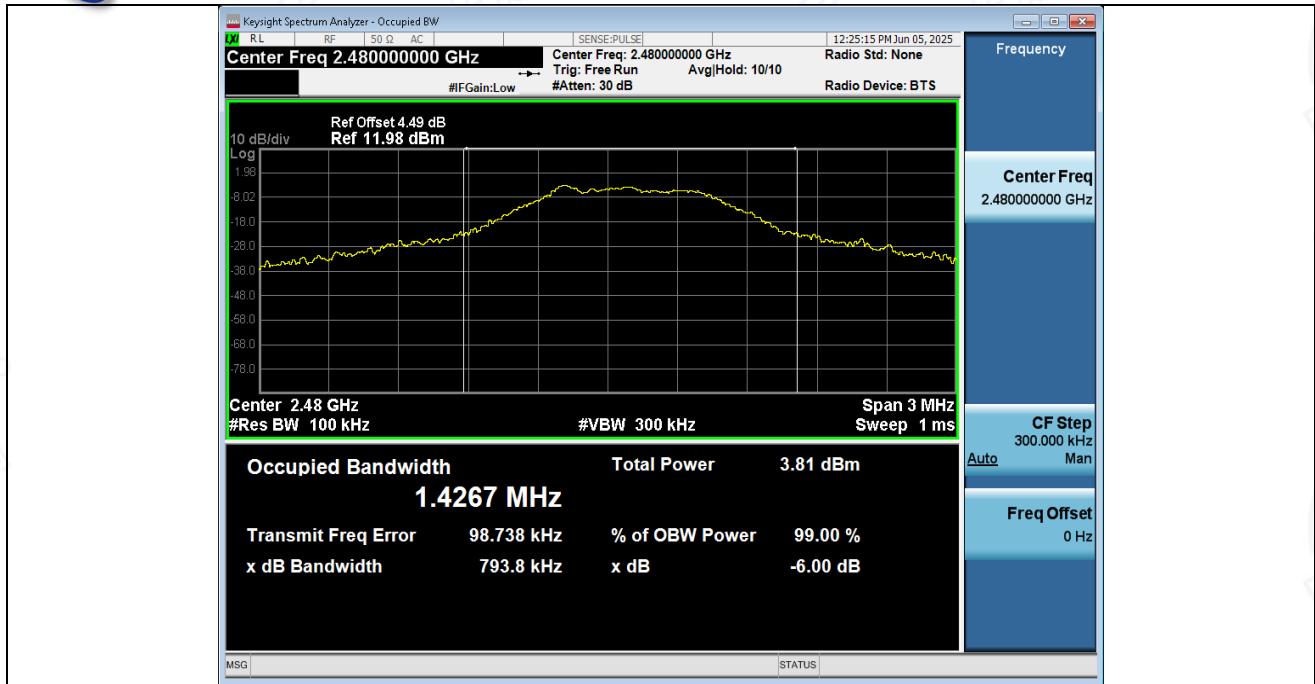
1. -6dB Bandwidth.....	3
2. 99% Occupied Bandwidth	5
3. Duty Cycle.....	7
4. Peak Output Power	9
5. Power Spectral Density.....	11
6. Bandedge.....	13
7. Spurious Emission.....	15



1. -6dB Bandwidth

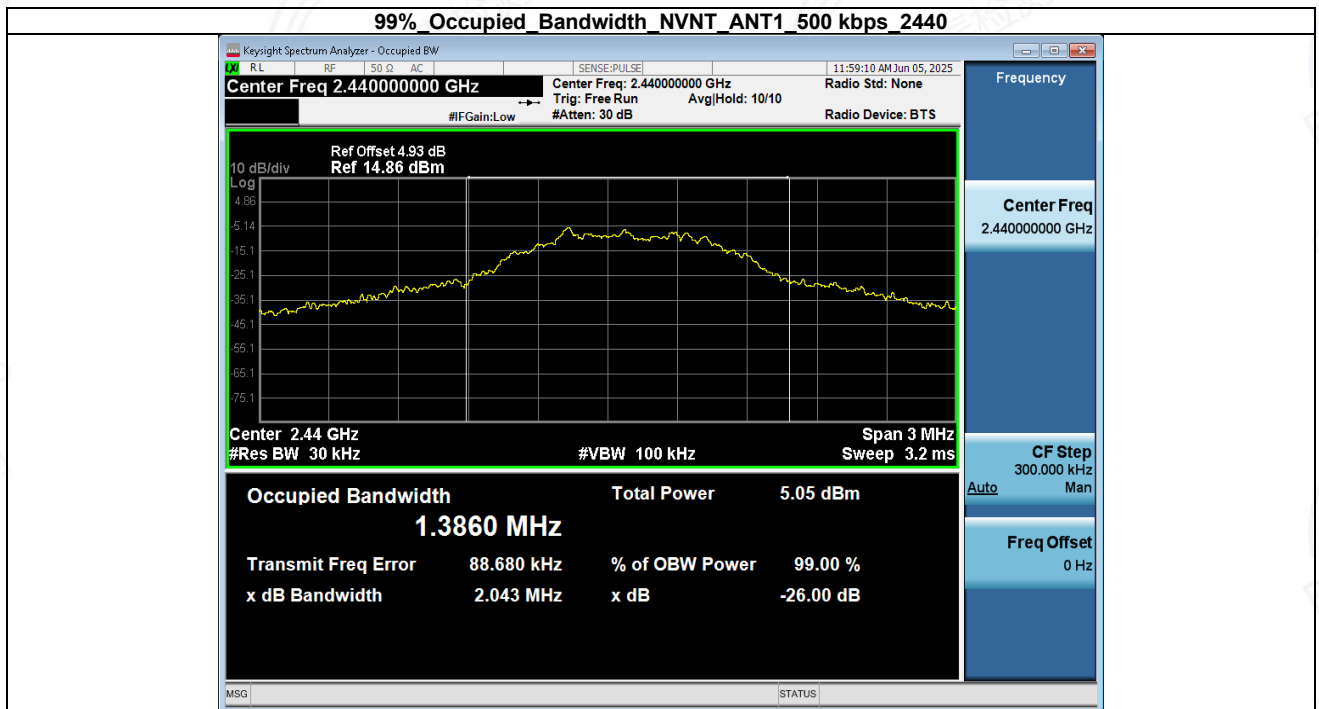
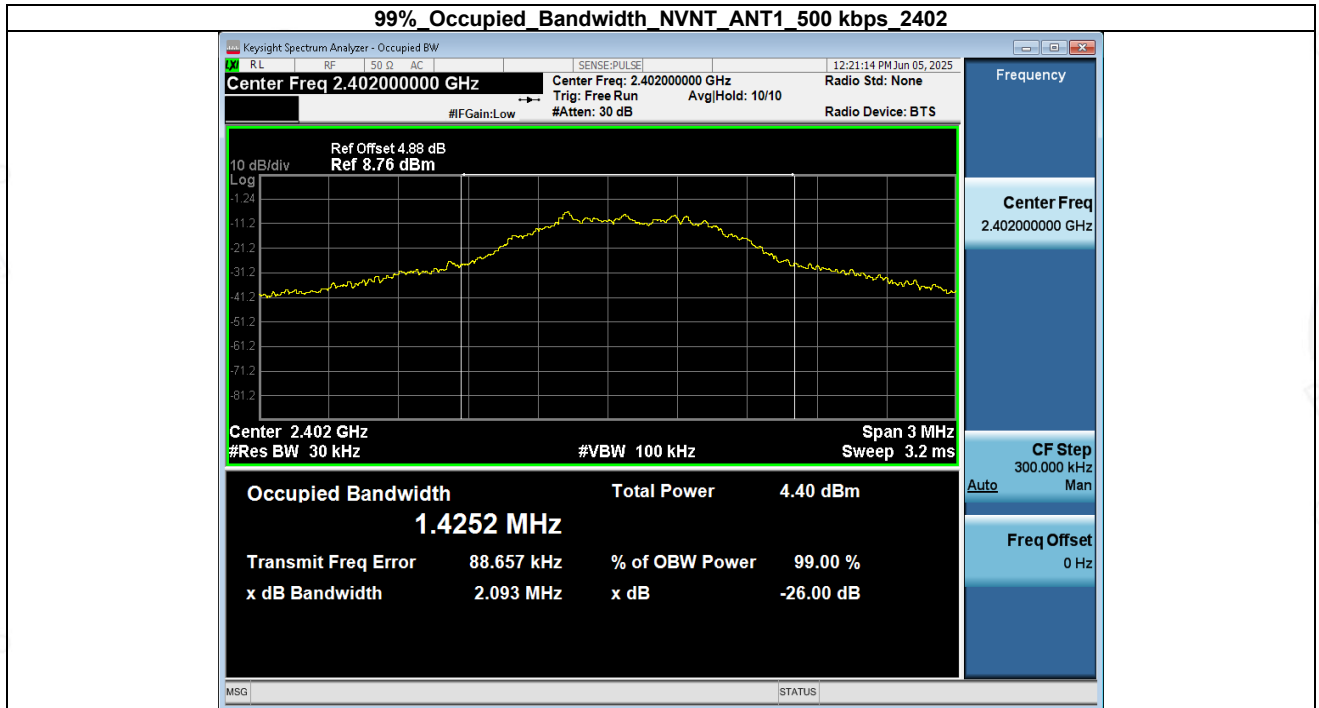
Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	500 kbps	2402.00	812.51	500	Pass
NVNT	ANT1	500 kbps	2440.00	785.73	500	Pass
NVNT	ANT1	500 kbps	2480.00	793.81	500	Pass





2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	500 kbps	2402.00	1.425
NVNT	ANT1	500 kbps	2440.00	1.386
NVNT	ANT1	500 kbps	2480.00	1.329



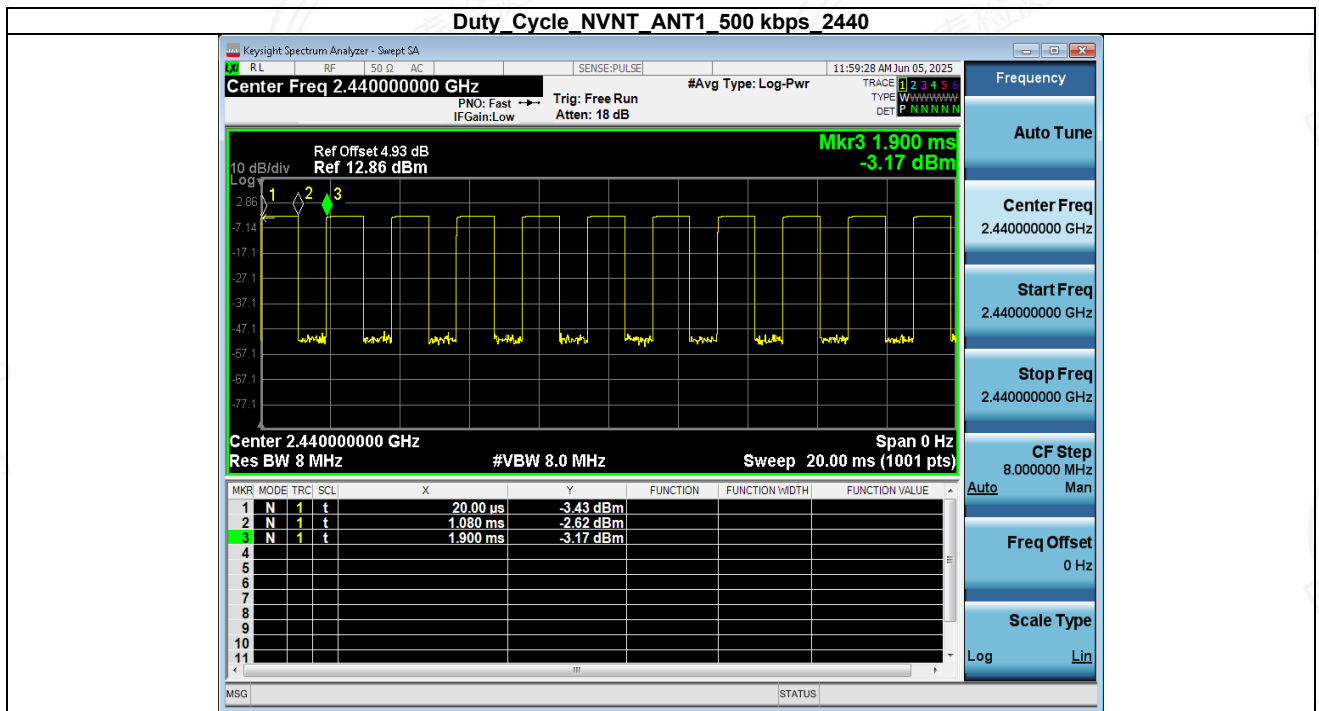
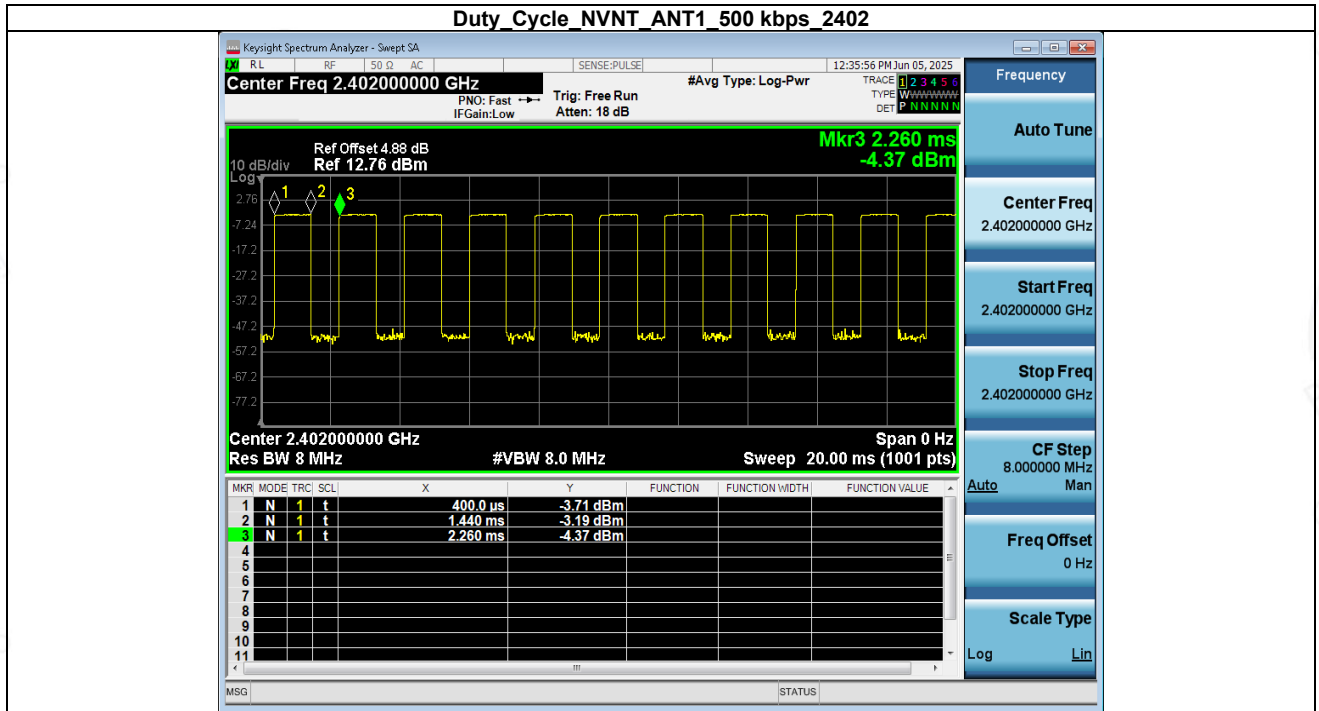
99% Occupied Bandwidth_NVNT_ANT1_500 kbps_2480





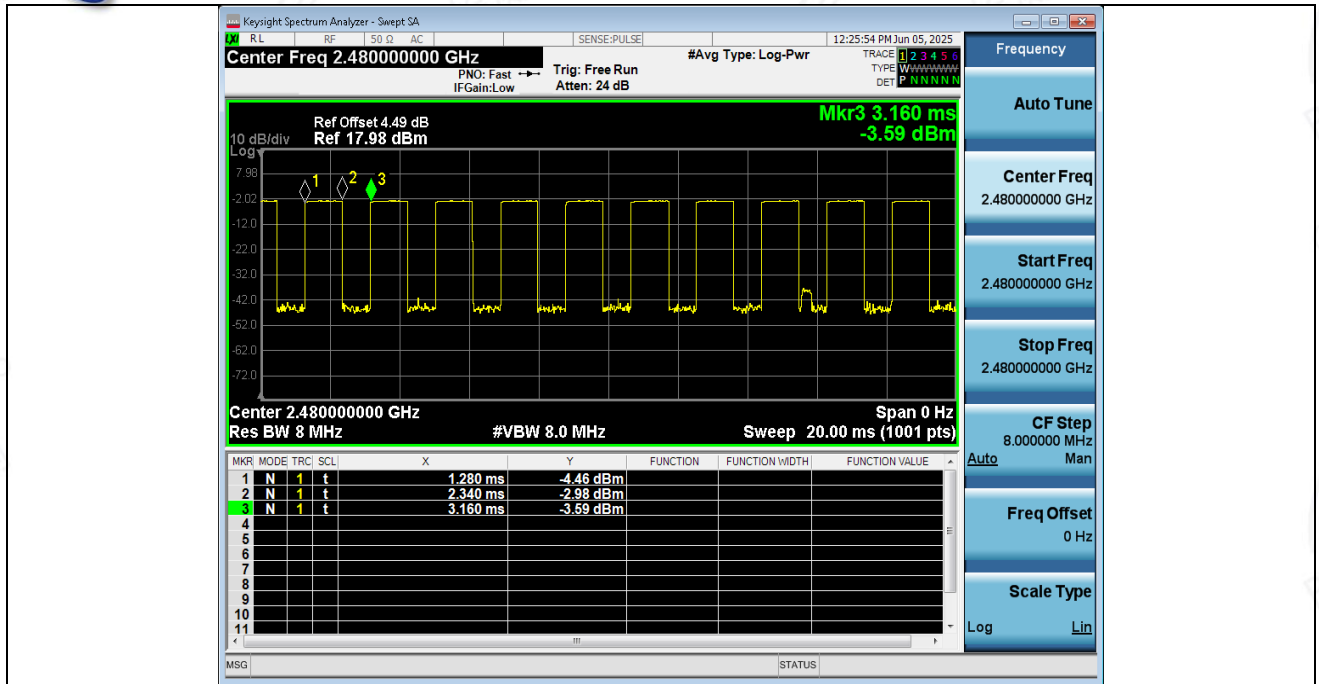
3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	500 kbps	2402.00	55.91	2.52
NVNT	ANT1	500 kbps	2440.00	56.38	2.49
NVNT	ANT1	500 kbps	2480.00	57.45	2.41



Duty Cycle_NVNT_ANT1_500 kbps_2480

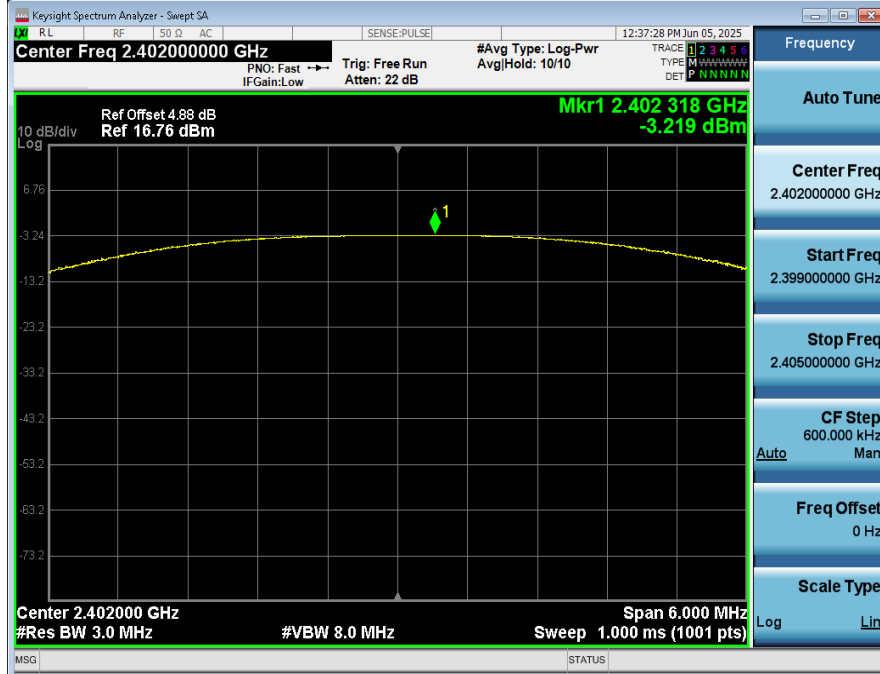




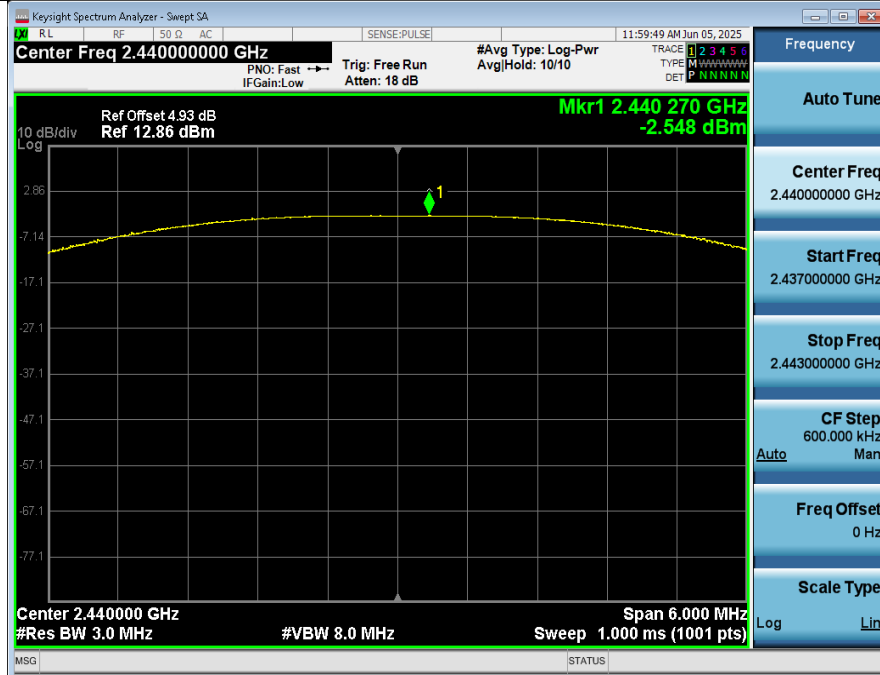
4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	500 kbps	2402.00	-3.22	0.48	1000	Pass
NVNT	ANT1	500 kbps	2440.00	-2.55	0.56	1000	Pass
NVNT	ANT1	500 kbps	2480.00	-2.87	0.52	1000	Pass

Peak_Output_Power_NVNT_ANT1_500 kbps_2402



Peak_Output_Power_NVNT_ANT1_500 kbps_2440



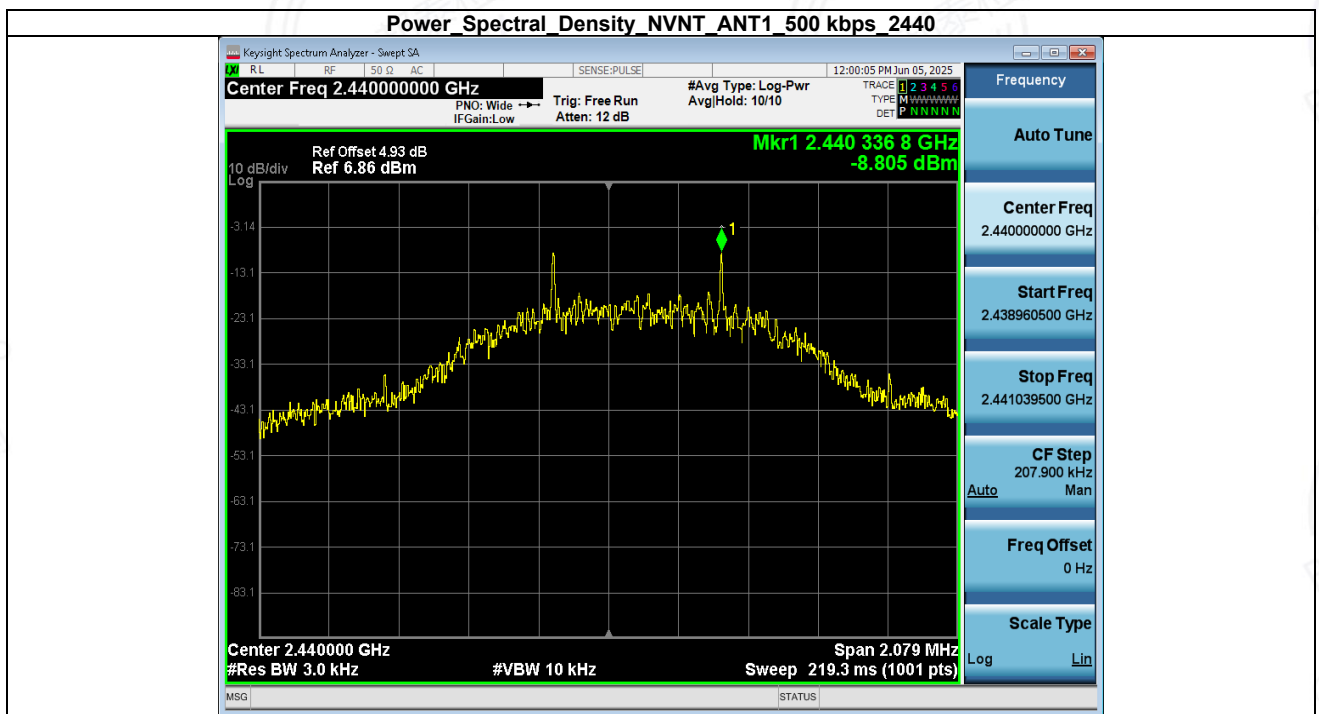
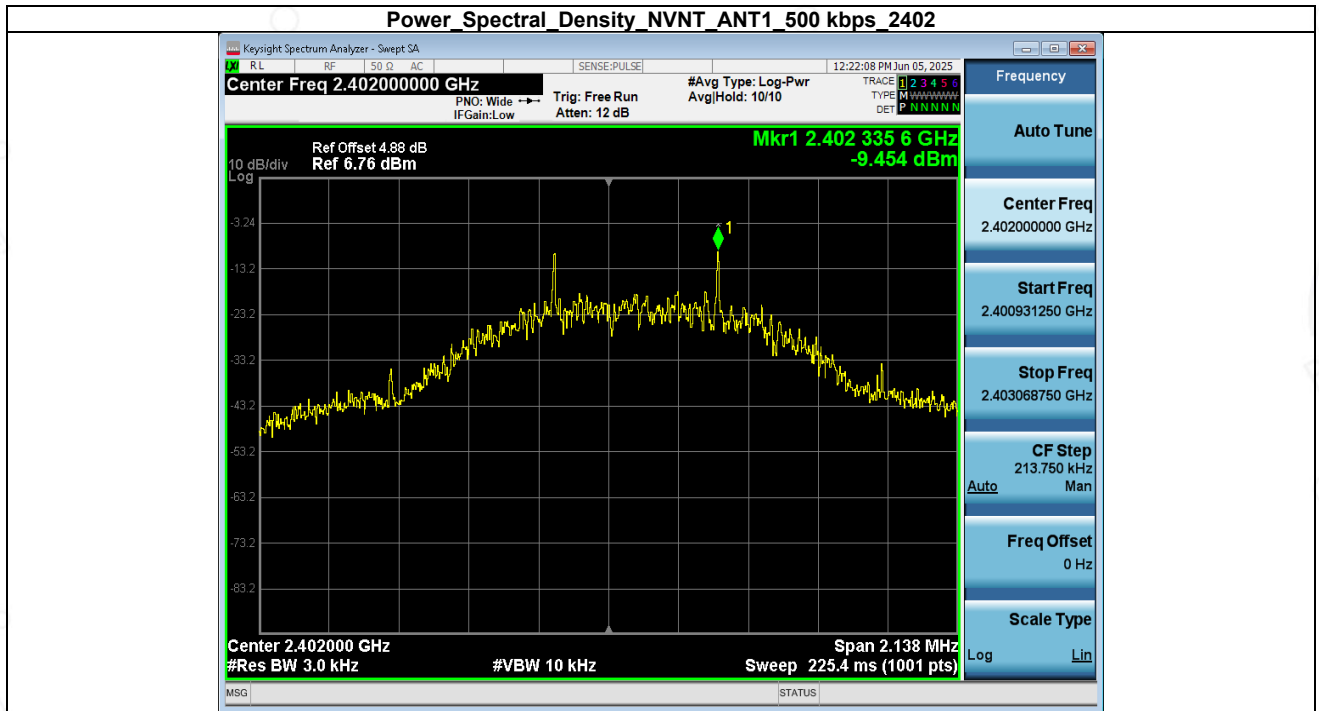
Peak_Output_Power_NVNT_ANT1_500 kbps_2480

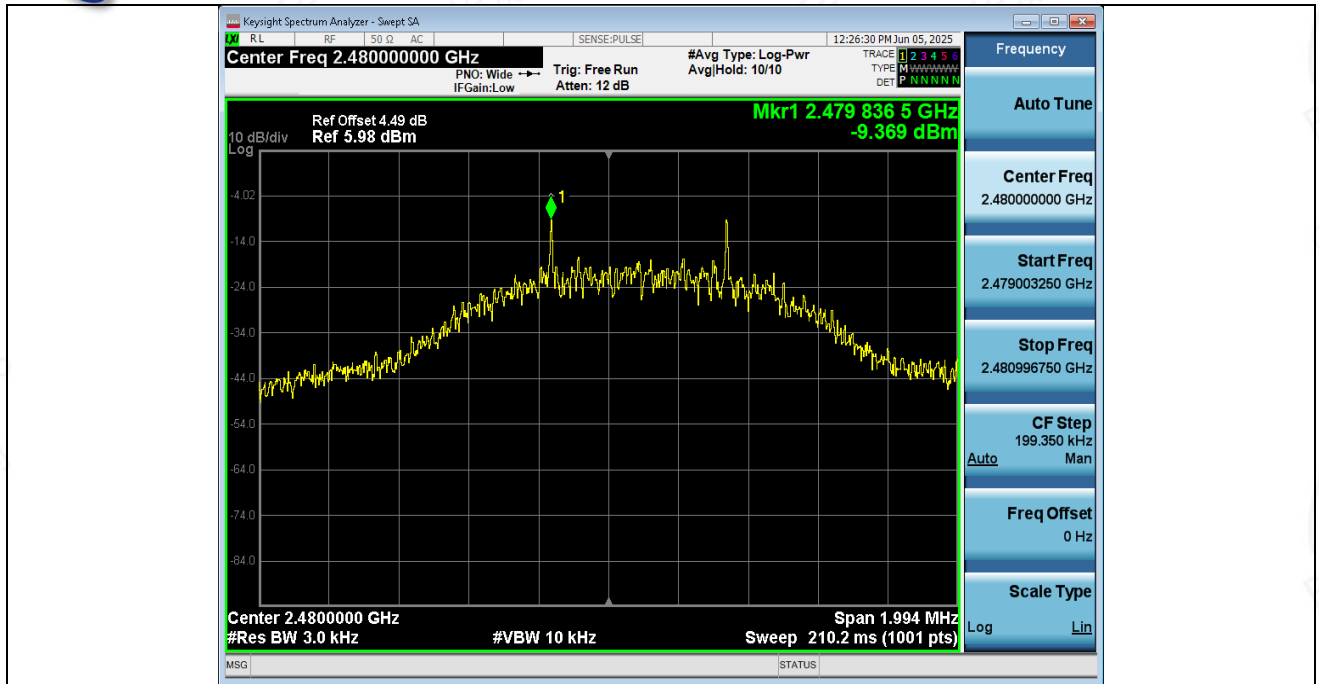




5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	500 kbps	2402.00	-9.45	8	Pass
NVNT	ANT1	500 kbps	2440.00	-8.80	8	Pass
NVNT	ANT1	500 kbps	2480.00	-9.37	8	Pass





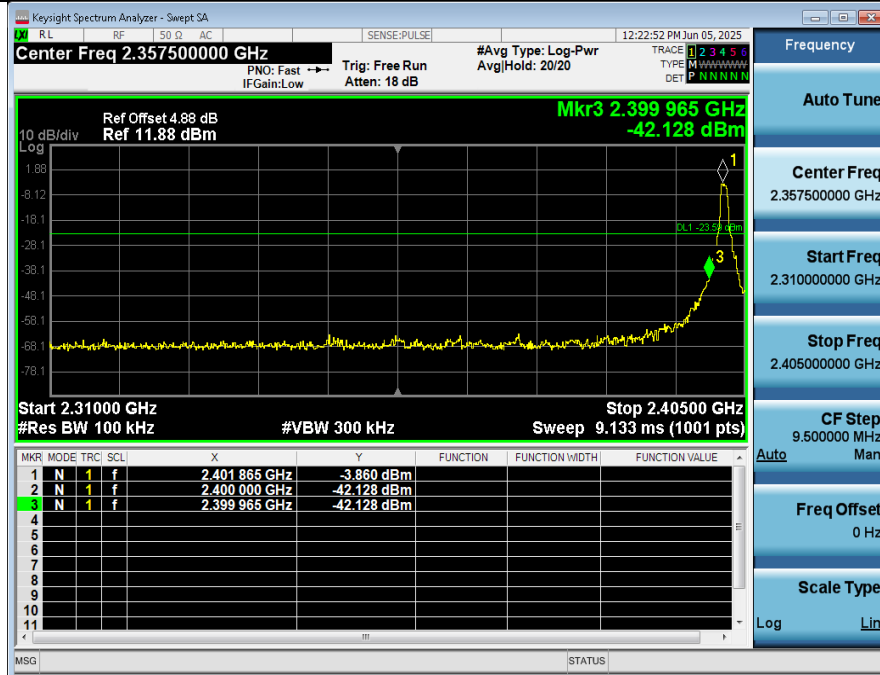
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	500 kbps	2402.00	2399.965	-3.593	-42.128	-23.593	Pass
NVNT	ANT1	500 kbps	2480.00	2484.275	-3.282	-47.138	-23.282	Pass

1 Reference Level NVNT_ANT1_500 kbps 2402



2 Bandedge NVNT_ANT1_500 kbps 2402

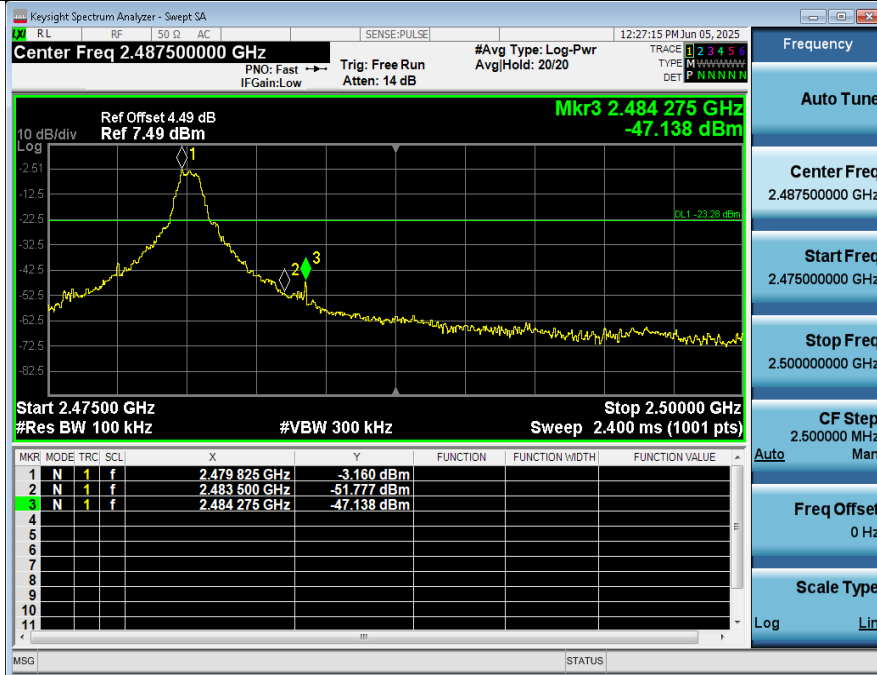


1 Reference Level NVNT_ANT1_500 kbps 2480





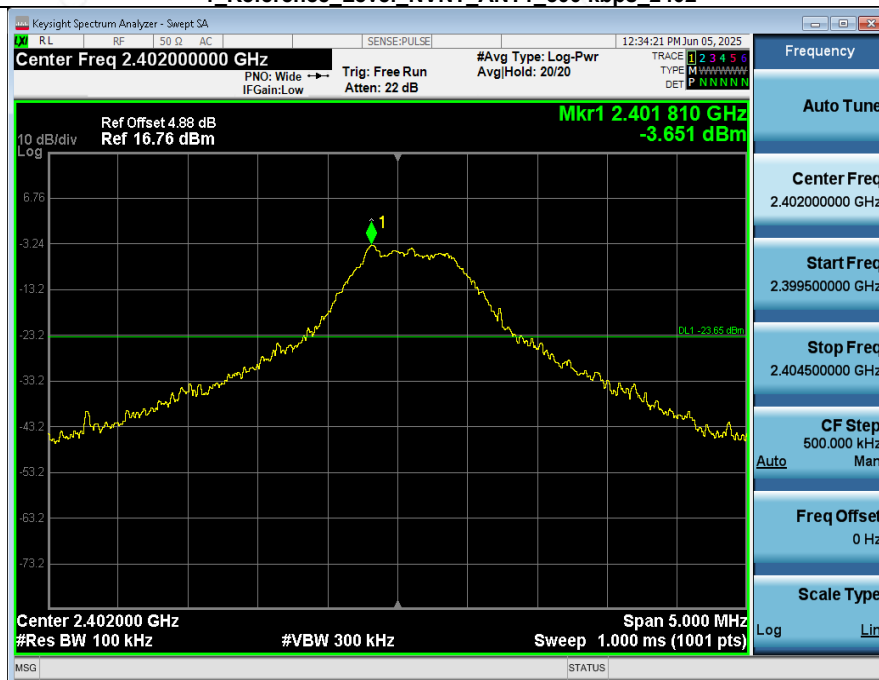
2_Bandedge_NVNT_ANT1_500 kbps_2480



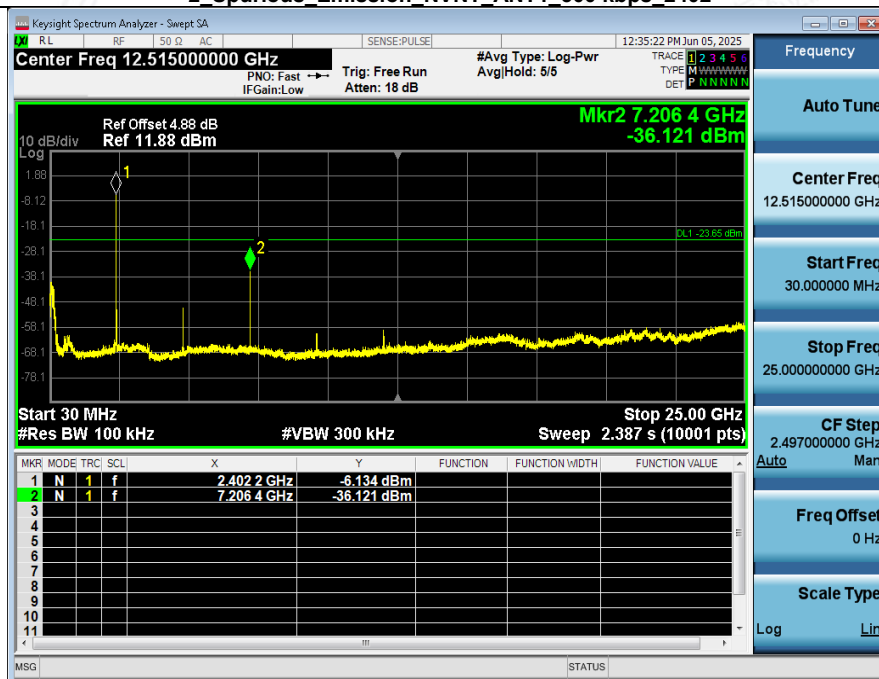
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	500 kbps	2402.00	-3.651	-36.121	-23.651	Pass
NVNT	ANT1	500 kbps	2440.00	-2.977	-38.992	-22.977	Pass
NVNT	ANT1	500 kbps	2480.00	-3.282	-40.179	-23.282	Pass

1 Reference Level NVNT_ANT1_500 kbps 2402



2 Spurious Emission NVNT_ANT1_500 kbps 2402

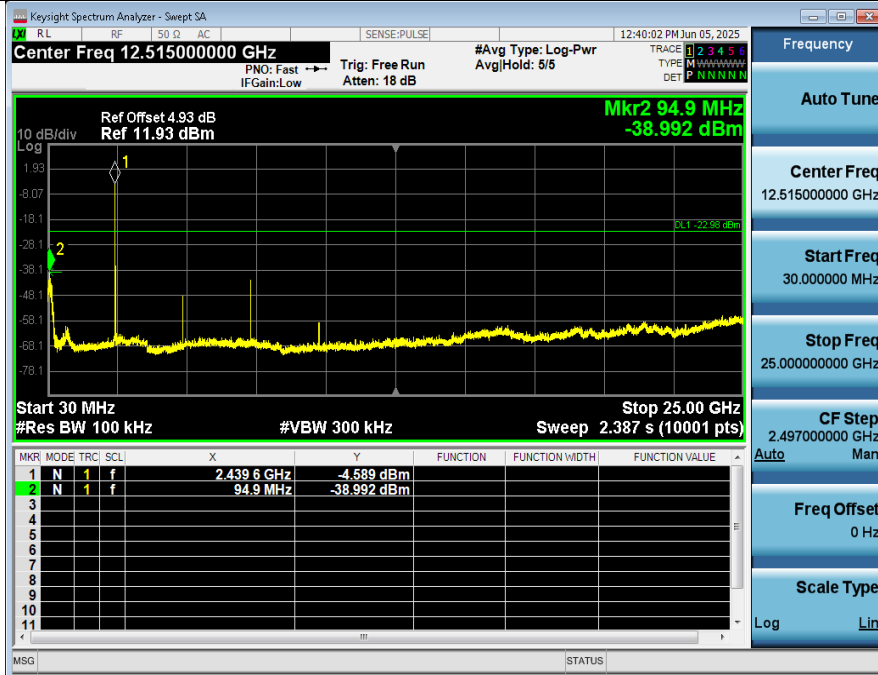


1 Reference Level NVNT_ANT1_500 kbps 2440





2_Spurious_Emission_NVNT_ANT1_500 kbps_2440



1_Reference_Level_NVNT_ANT1_500 kbps_2480





2_Spurious_Emission_NVNT_ANT1_500_kbps_2480

