

# Appendix

## BLE Test Data

### for BTEK240509012AE



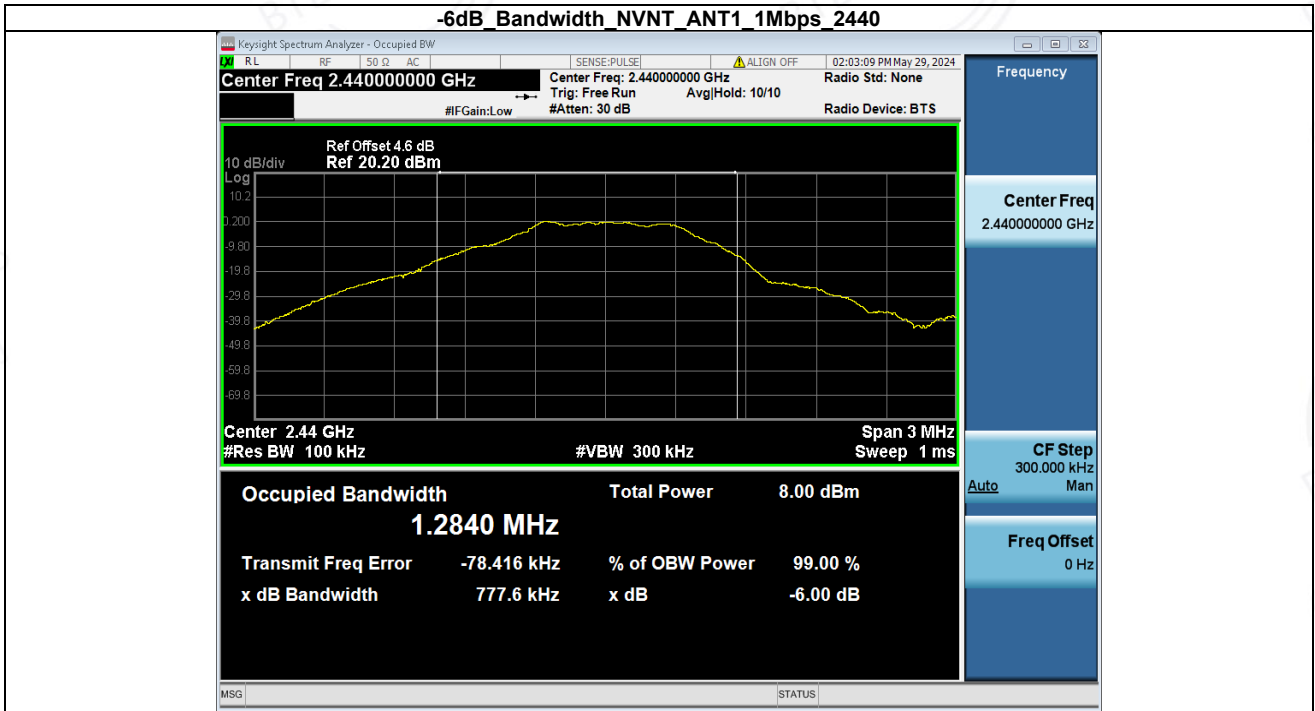
## Table of Contents

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	1Mbps	2402.00	786.06	500	Pass
NVNT	ANT1	1Mbps	2440.00	777.62	500	Pass
NVNT	ANT1	1Mbps	2480.00	795.63	500	Pass



**-6dB\_Bandwidth\_NVNT\_ANT1\_1Mbps\_2480**

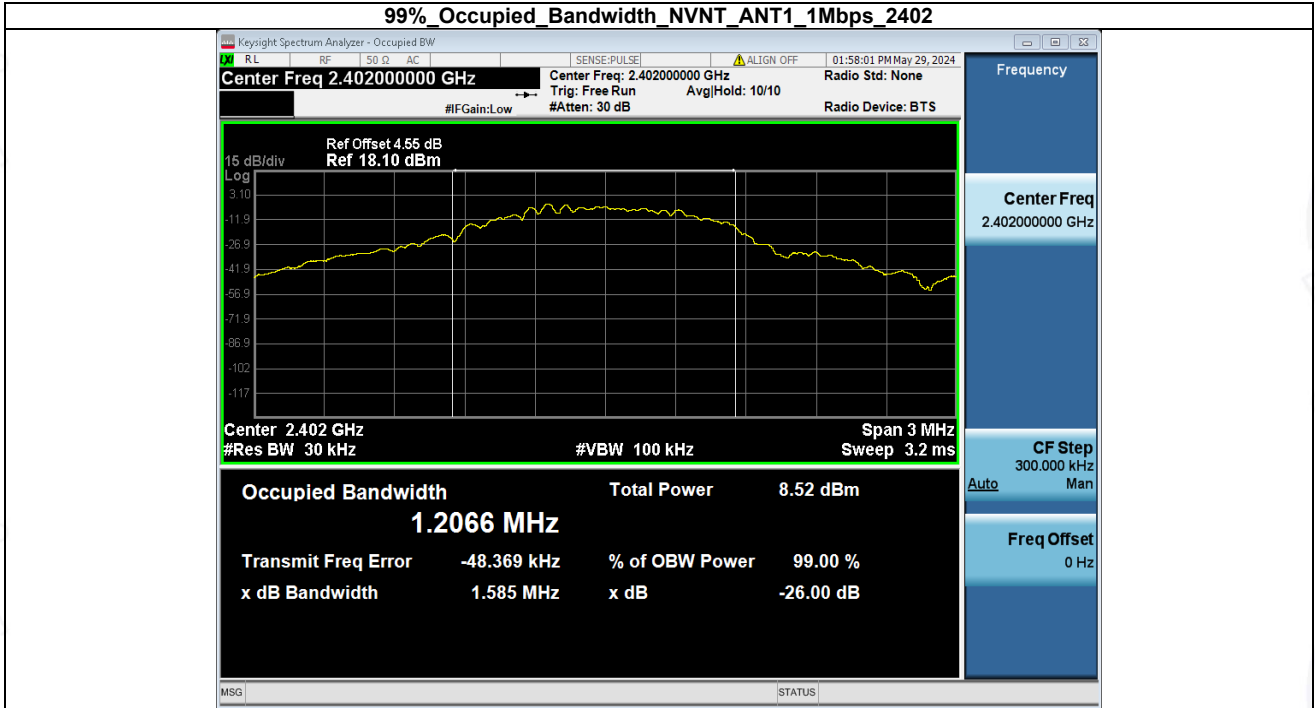




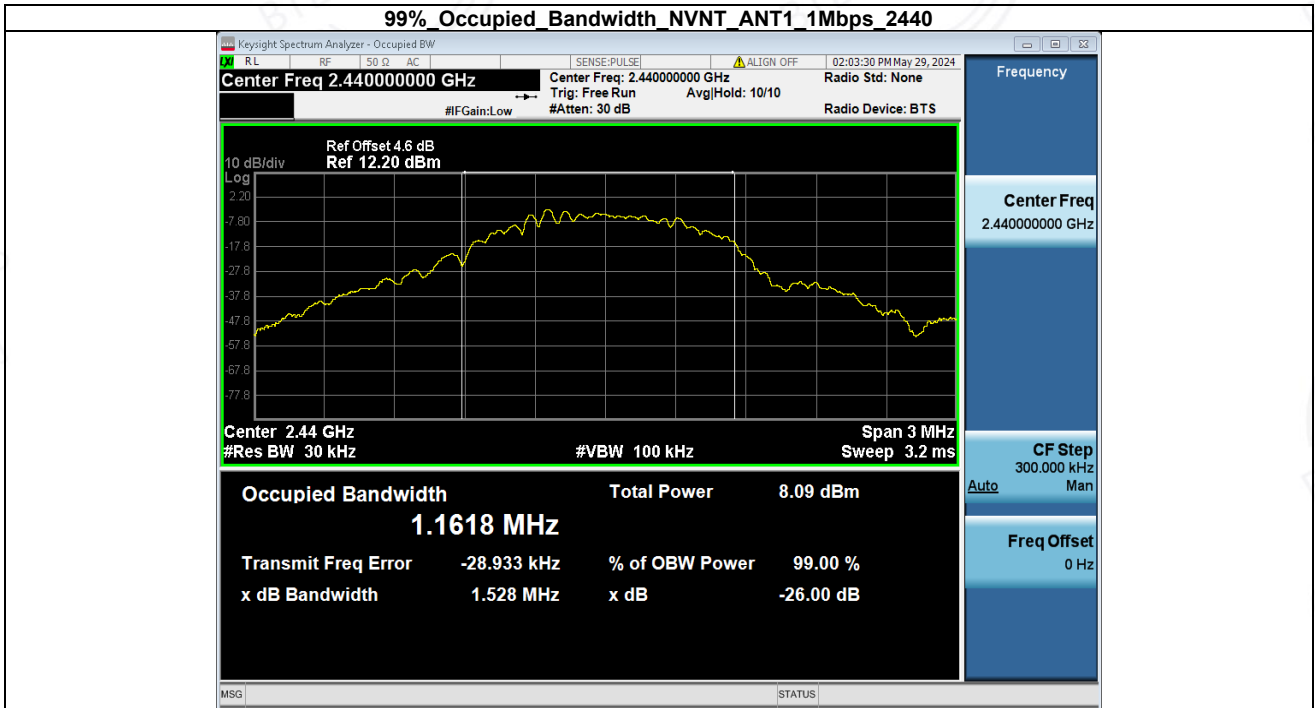
## 2. 99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1Mbps	2402.00	1.207
NVNT	ANT1	1Mbps	2440.00	1.162
NVNT	ANT1	1Mbps	2480.00	1.163

99% Occupied Bandwidth\_NVNT\_ANT1\_1Mbps\_2402



99% Occupied Bandwidth\_NVNT\_ANT1\_1Mbps\_2440



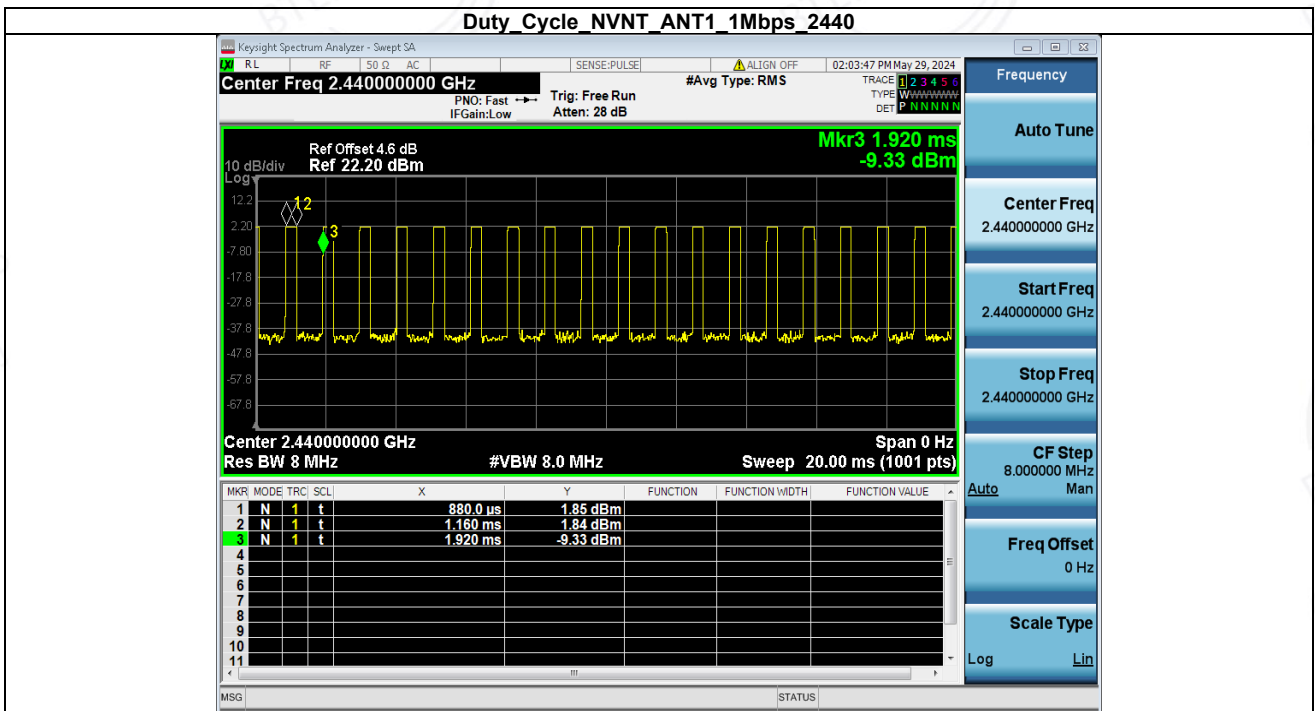
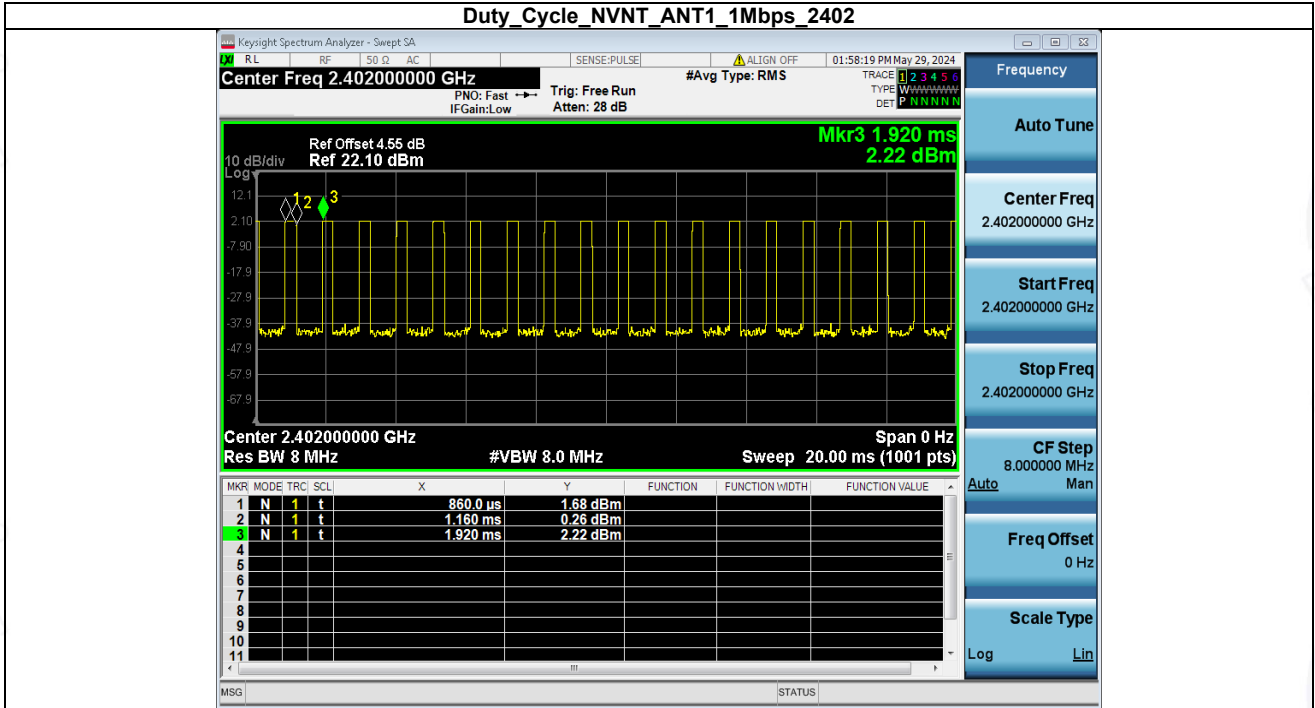
99% Occupied Bandwidth\_NVNT\_ANT1\_1Mbps\_2480





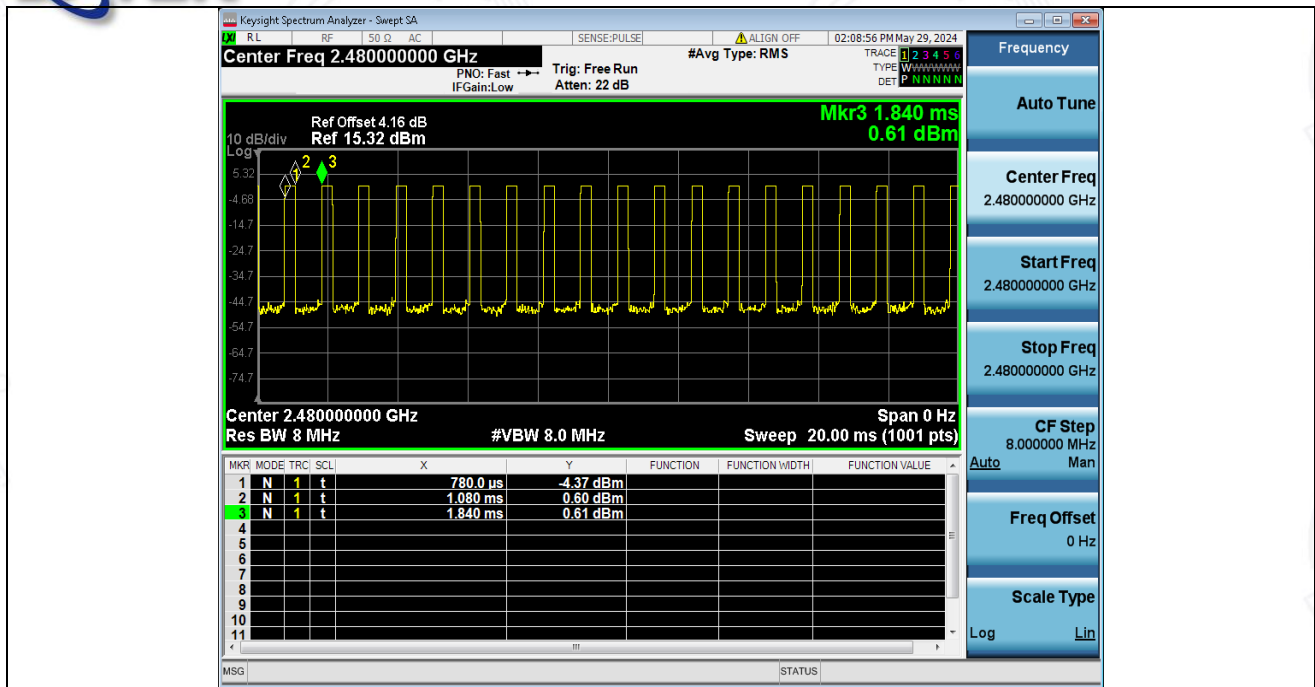
### 3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	30.19	5.20
NVNT	ANT1	1Mbps	2440.00	28.85	5.40
NVNT	ANT1	1Mbps	2480.00	30.19	5.20



**Duty Cycle\_NVNT\_ANT1\_1Mbps\_2480**

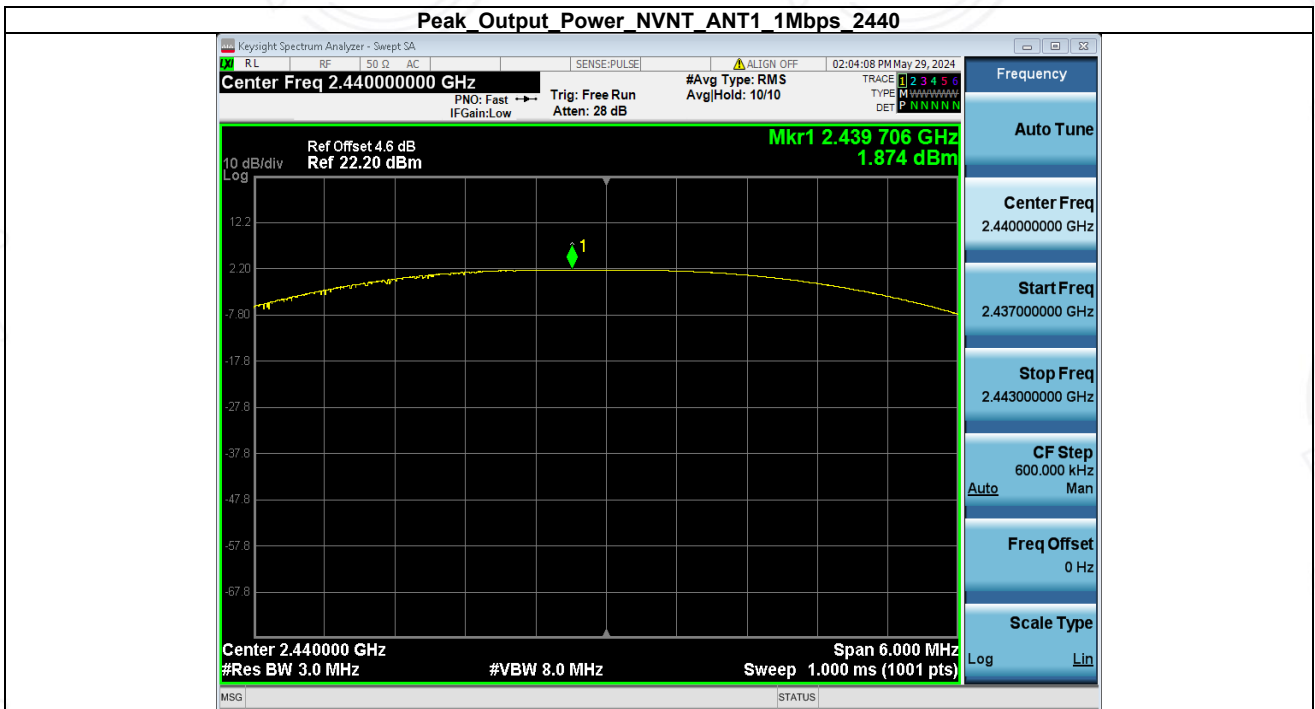
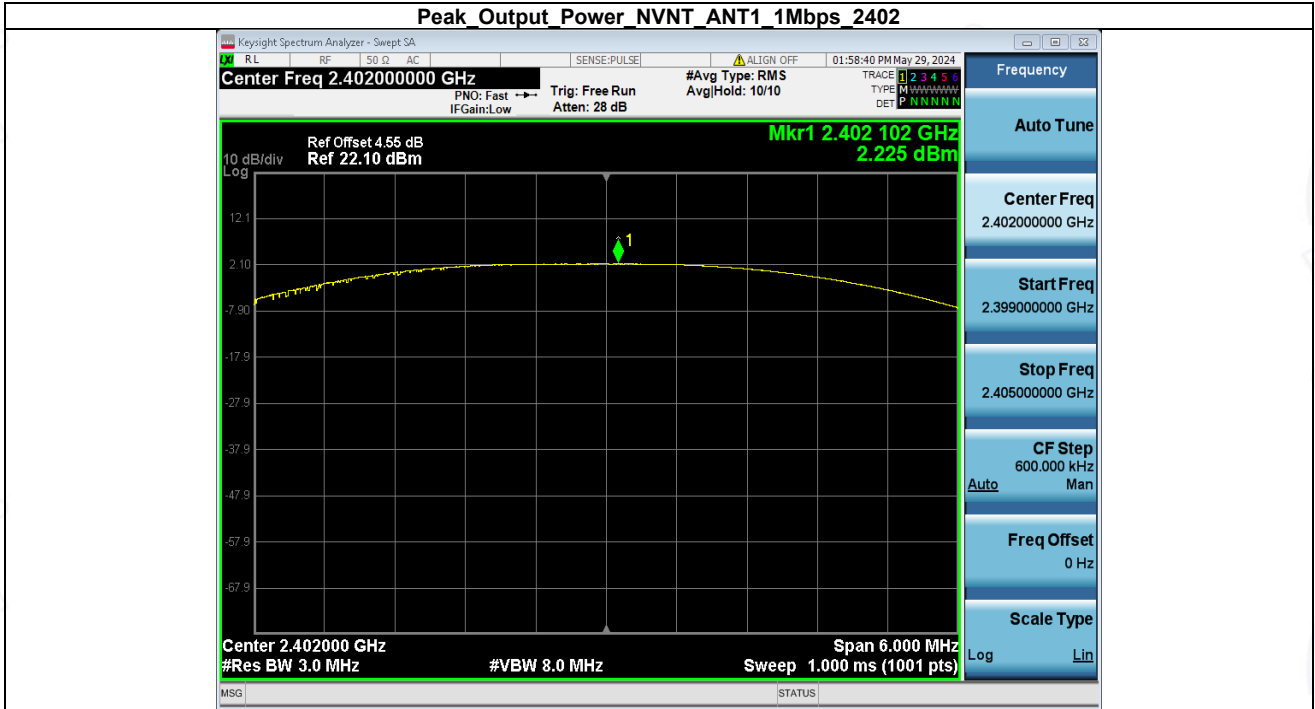






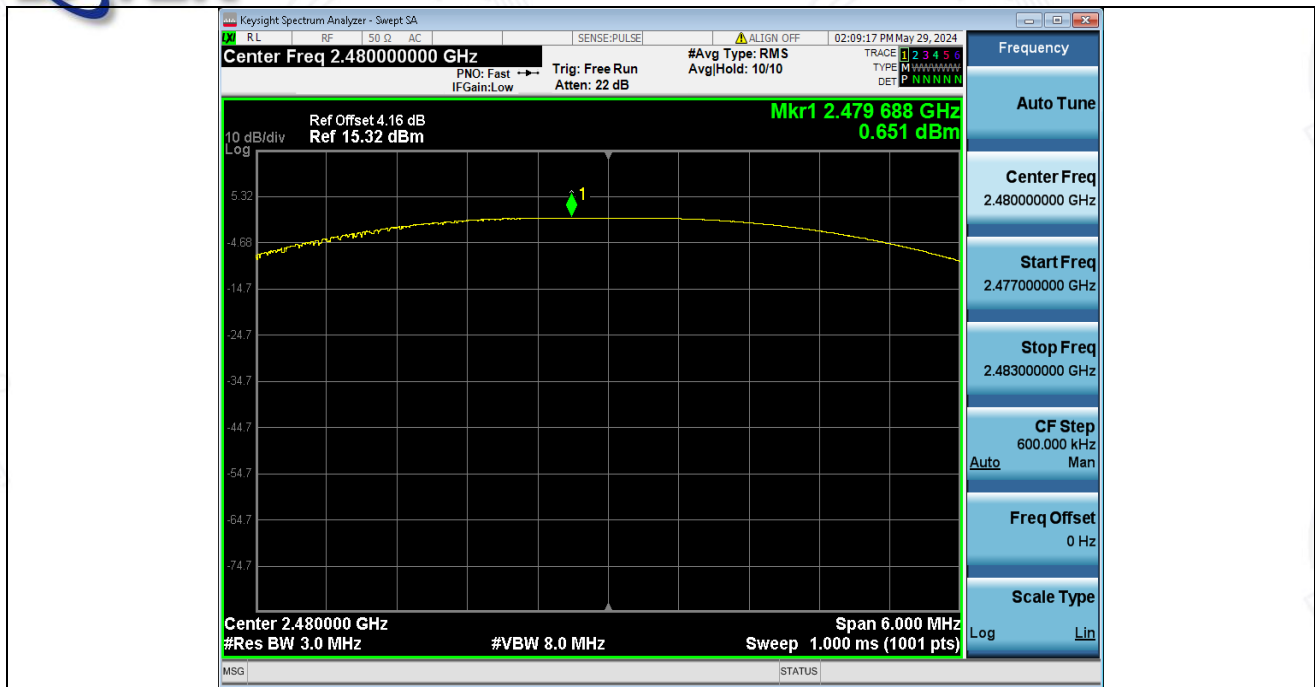
### 4. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	2.23	1.67	1000	Pass
NVNT	ANT1	1Mbps	2440.00	1.87	1.54	1000	Pass
NVNT	ANT1	1Mbps	2480.00	0.65	1.16	1000	Pass



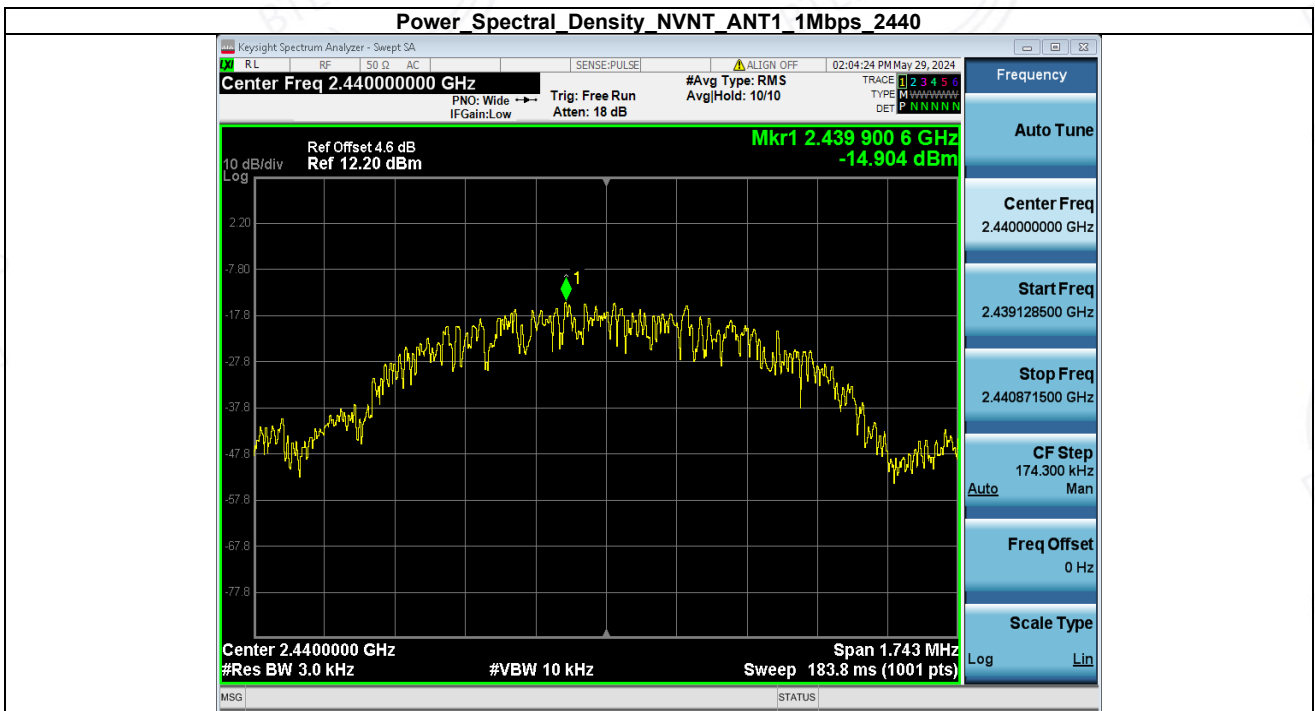
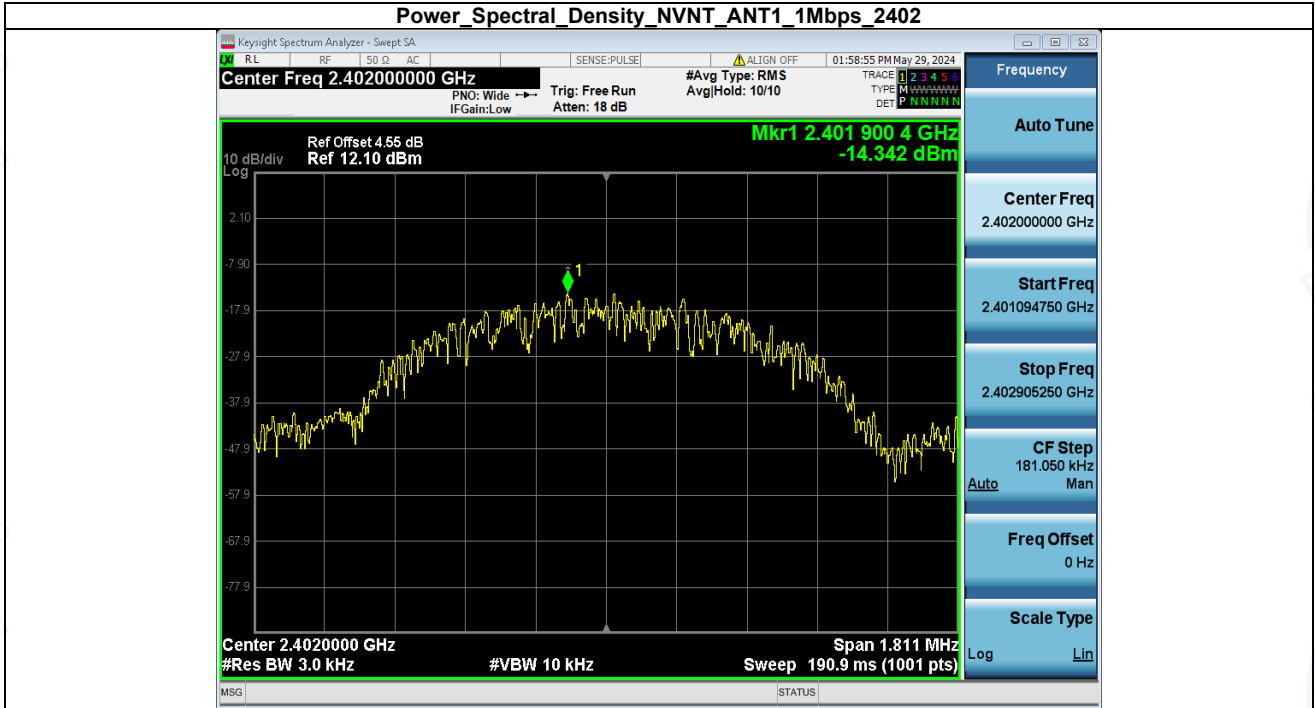
**Peak Output Power\_NVNT\_ANT1\_1Mbps\_2480**





### 5. Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-14.34	8	Pass
NVNT	ANT1	1Mbps	2440.00	-14.90	8	Pass
NVNT	ANT1	1Mbps	2480.00	-15.64	8	Pass



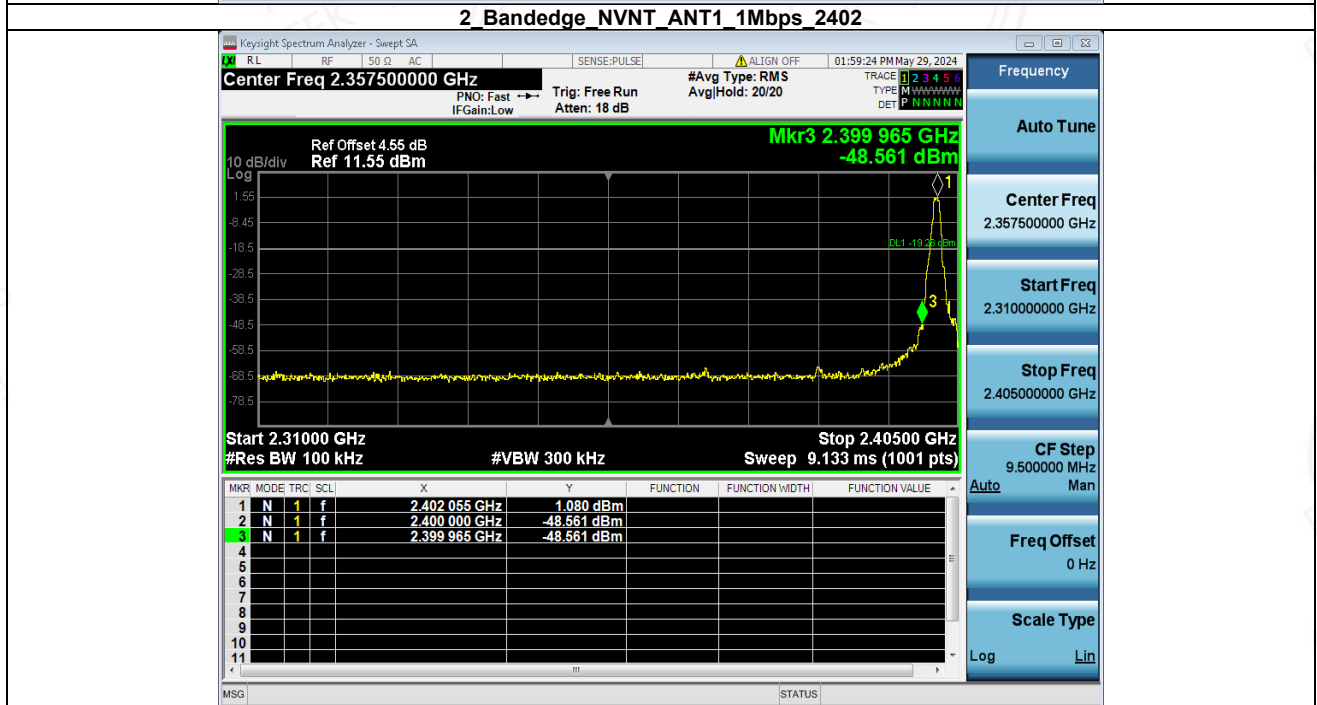
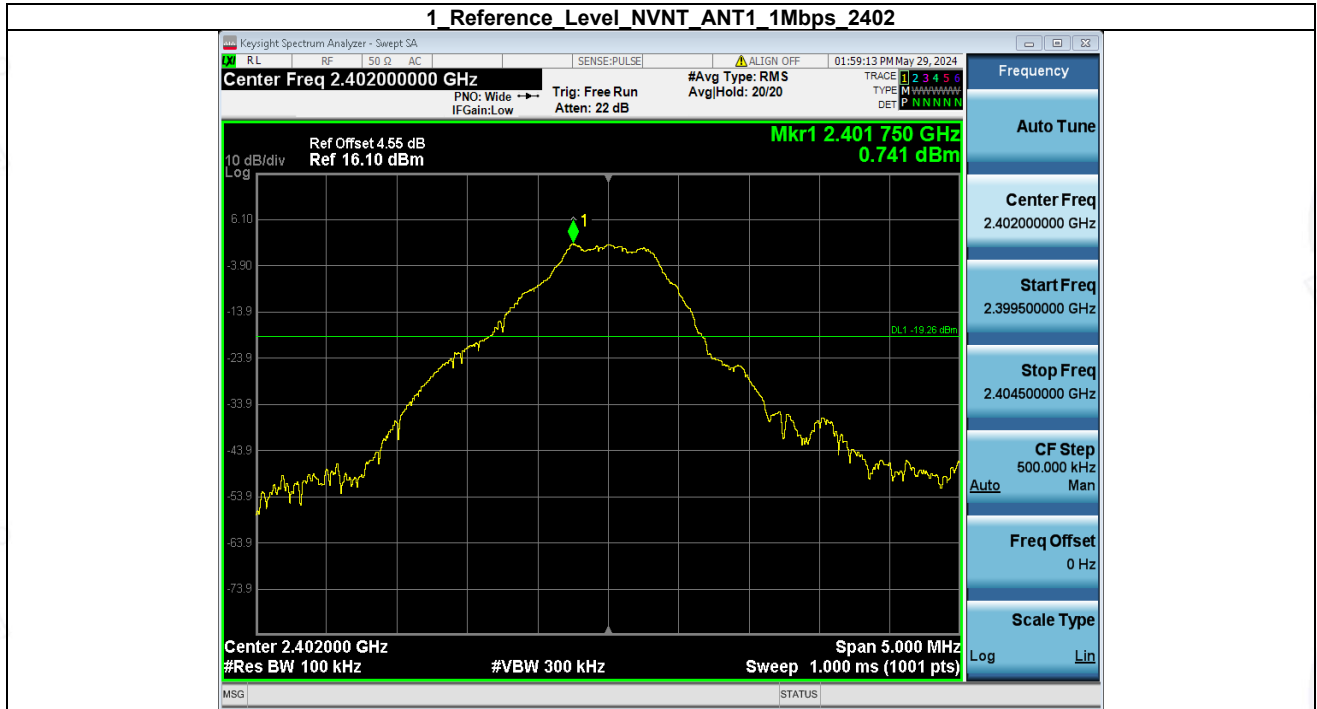
**Power Spectral Density\_NVNT\_ANT1\_1Mbps\_2480**





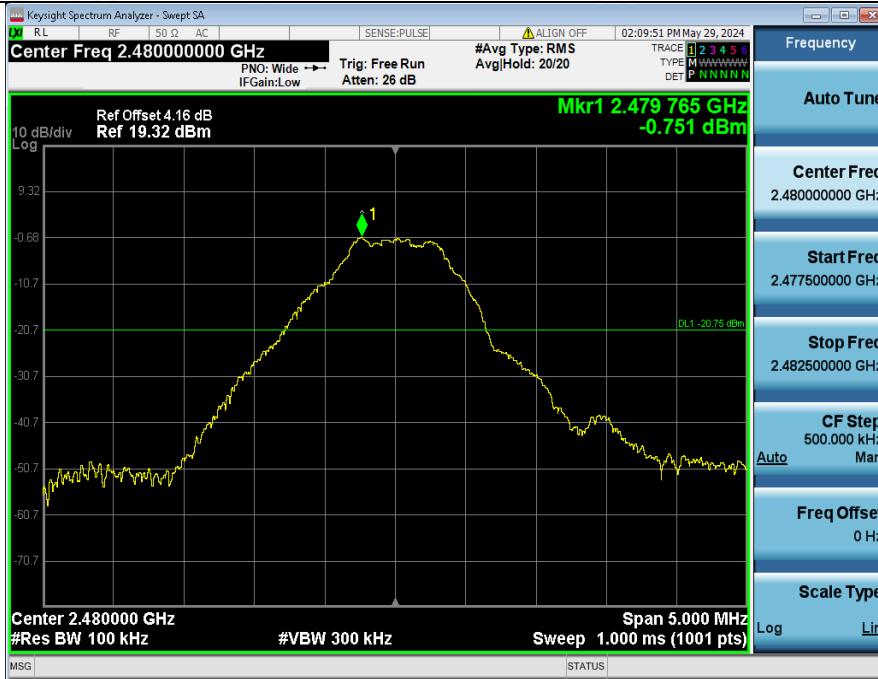
## 6. Bandedge

Condition	Antenna	Rate	TX_Frequency (MHz)	Max. Mark Frequency (MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2399.965	-48.561	-19.259	Pass
NVNT	ANT1	1Mbps	2480.00	2483.750	-56.154	-20.751	Pass

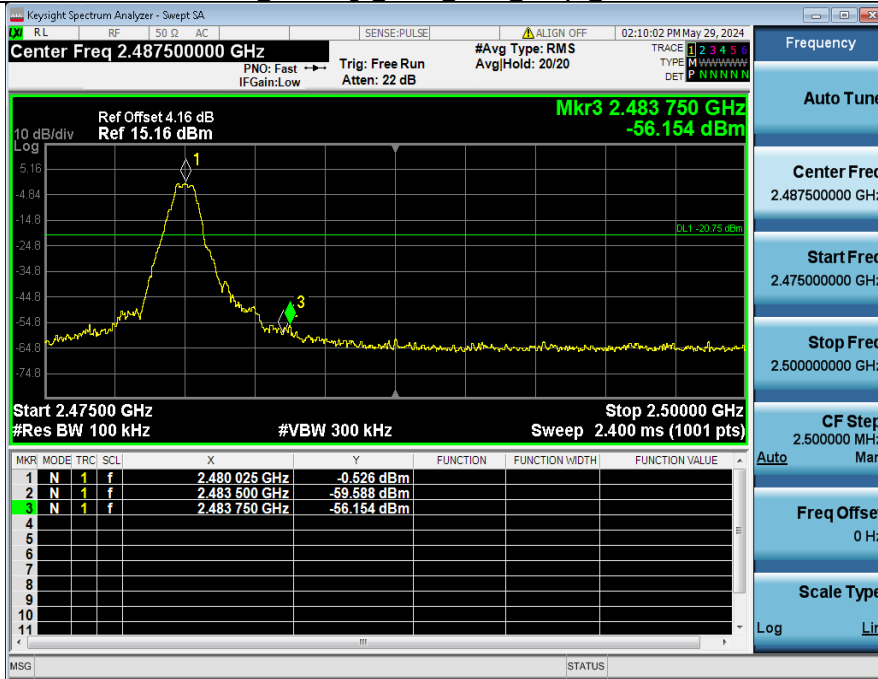


**1 Reference\_Level\_NVNT\_ANT1\_1Mbps\_2480**





2\_Bandedge\_NVNT\_ANT1\_1Mbps\_2480



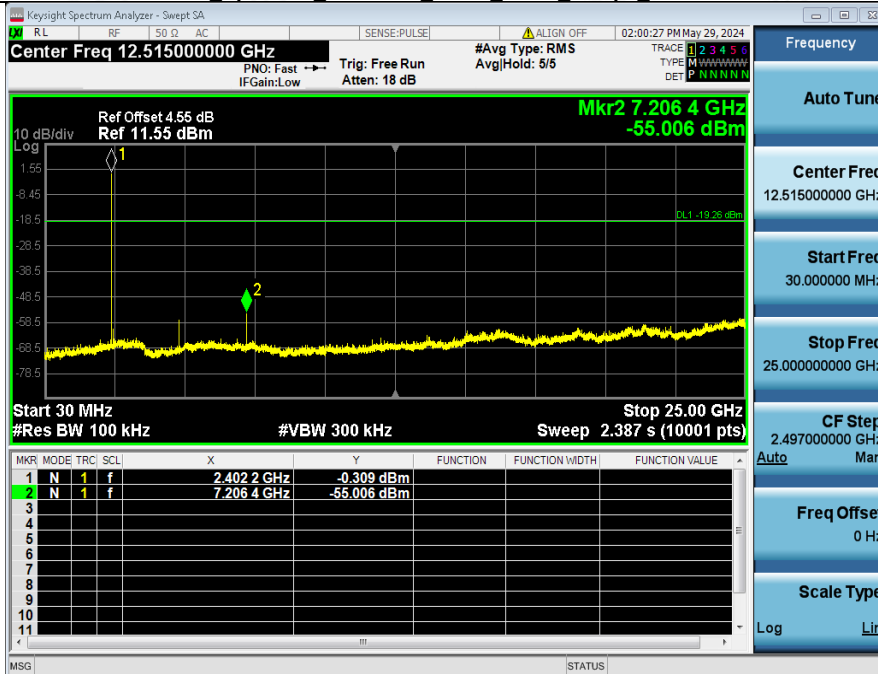
## 7. Spurious Emission

Condition	Antenna	Rate	TX_Frequency(MHz)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1Mbps	2402.00	-55.006	-19.259	Pass
NVNT	ANT1	1Mbps	2440.00	-47.130	-19.628	Pass
NVNT	ANT1	1Mbps	2480.00	-52.334	-20.751	Pass

### 1 Reference\_Level\_NVNT\_ANT1\_1Mbps\_2402

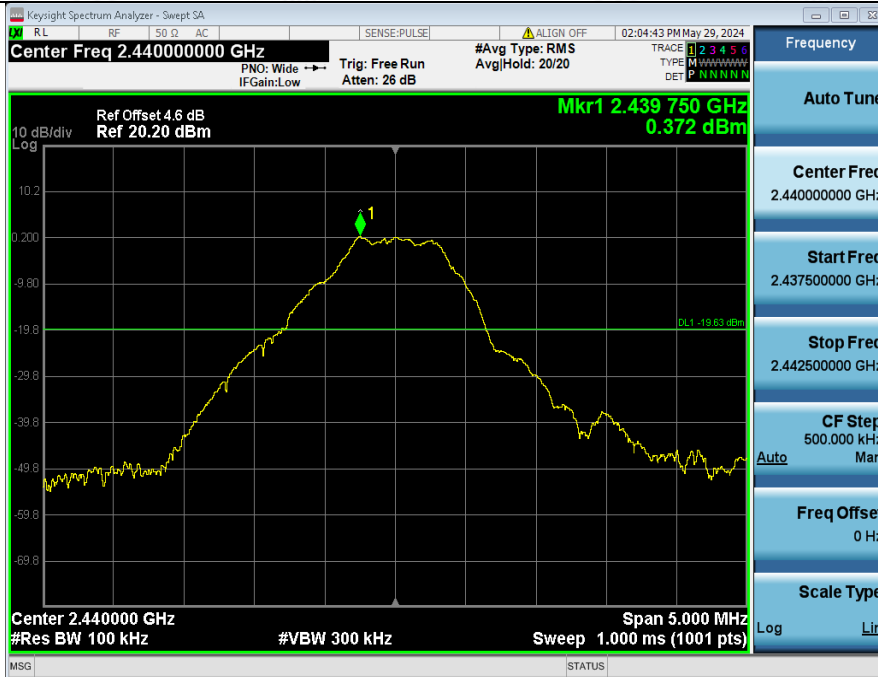


### 2 Spurious Emission\_NVNT\_ANT1\_1Mbps\_2402

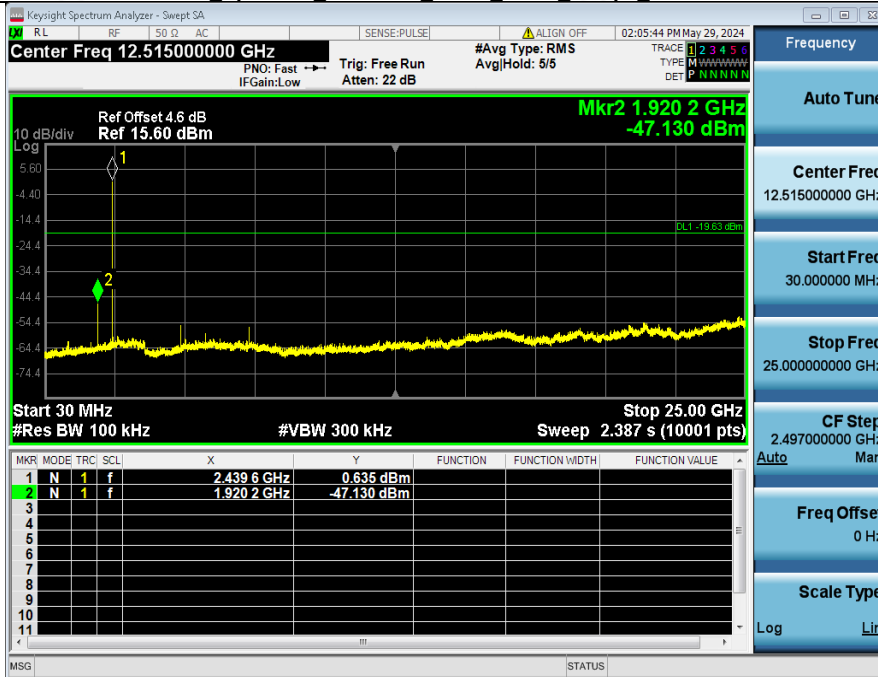


### 1 Reference\_Level\_NVNT\_ANT1\_1Mbps\_2440





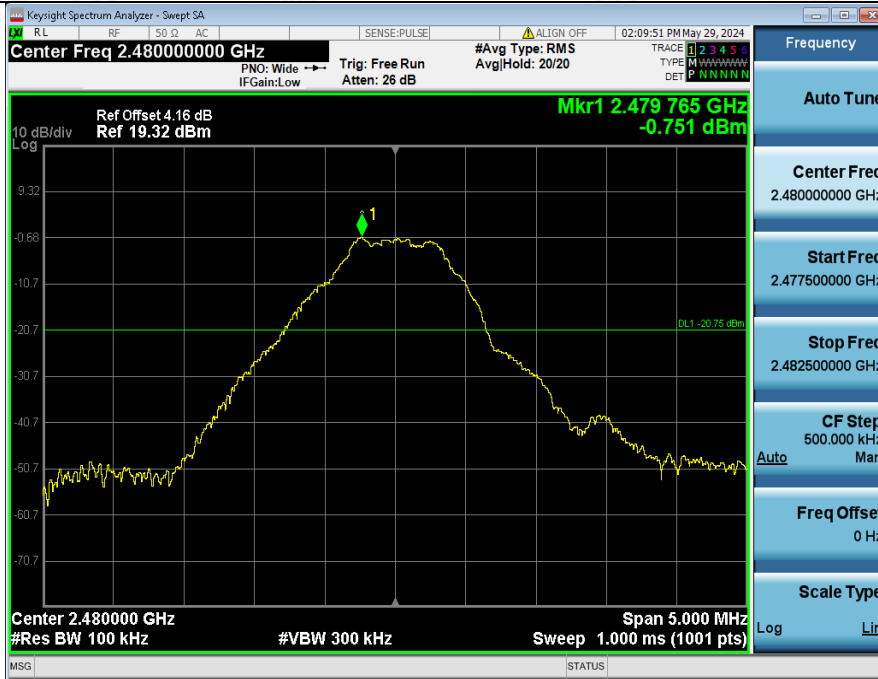
2\_Spurious Emission\_NVNT\_ANT1\_1Mbps\_2440



1\_Reference Level\_NVNT\_ANT1\_1Mbps\_2480







2\_Spurious Emission\_NVNT\_ANT1\_1Mbps\_2480

