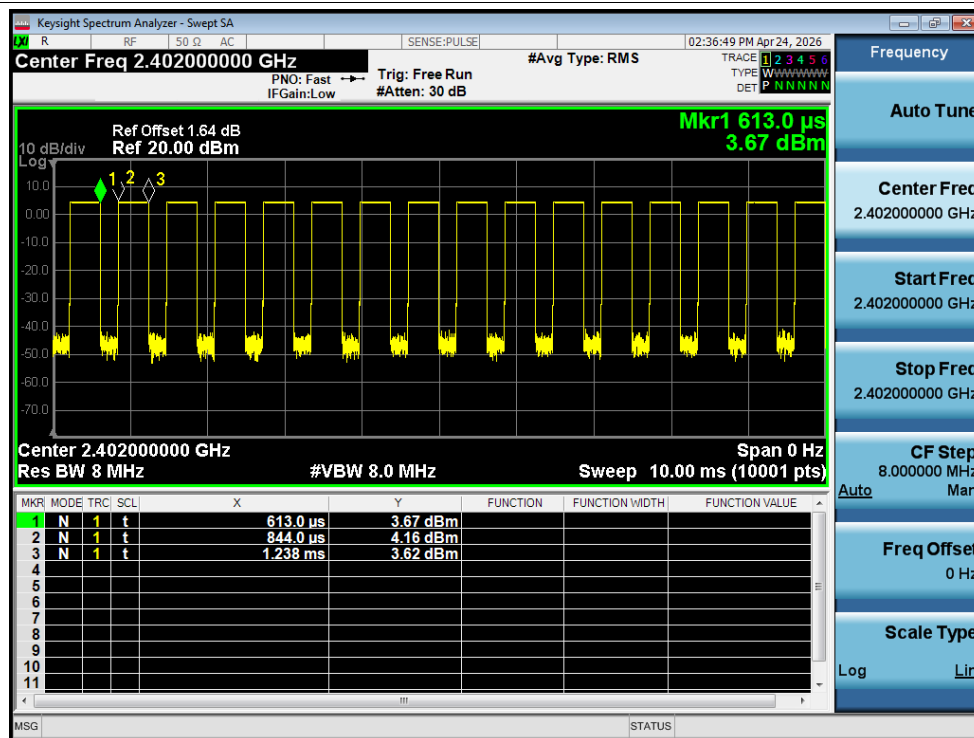


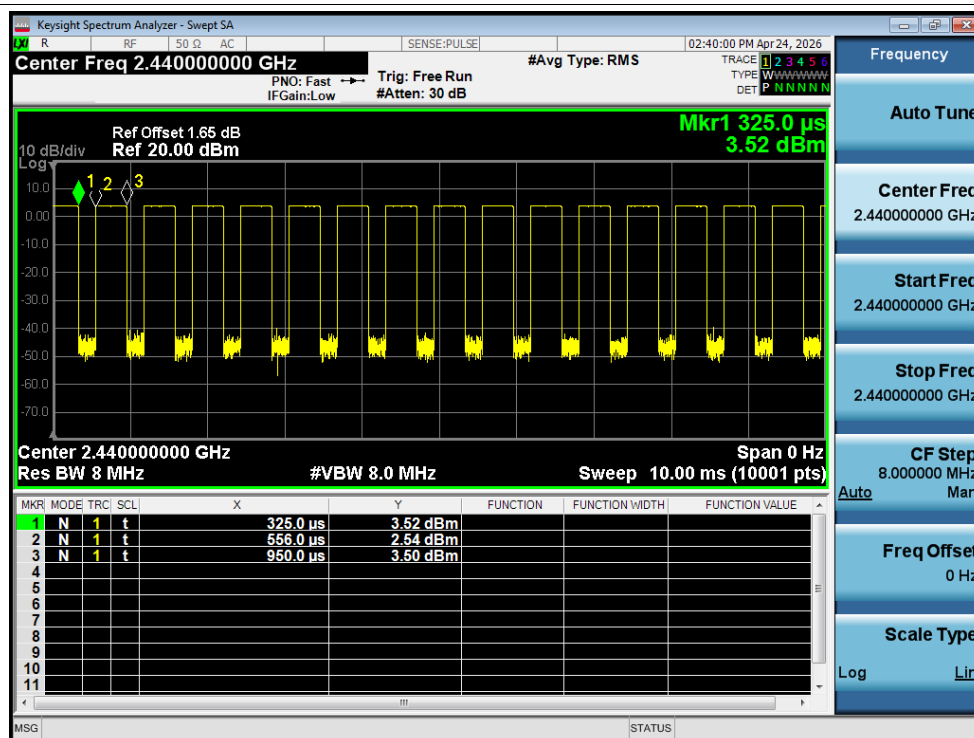
## Appendix D

### Duty Cycle

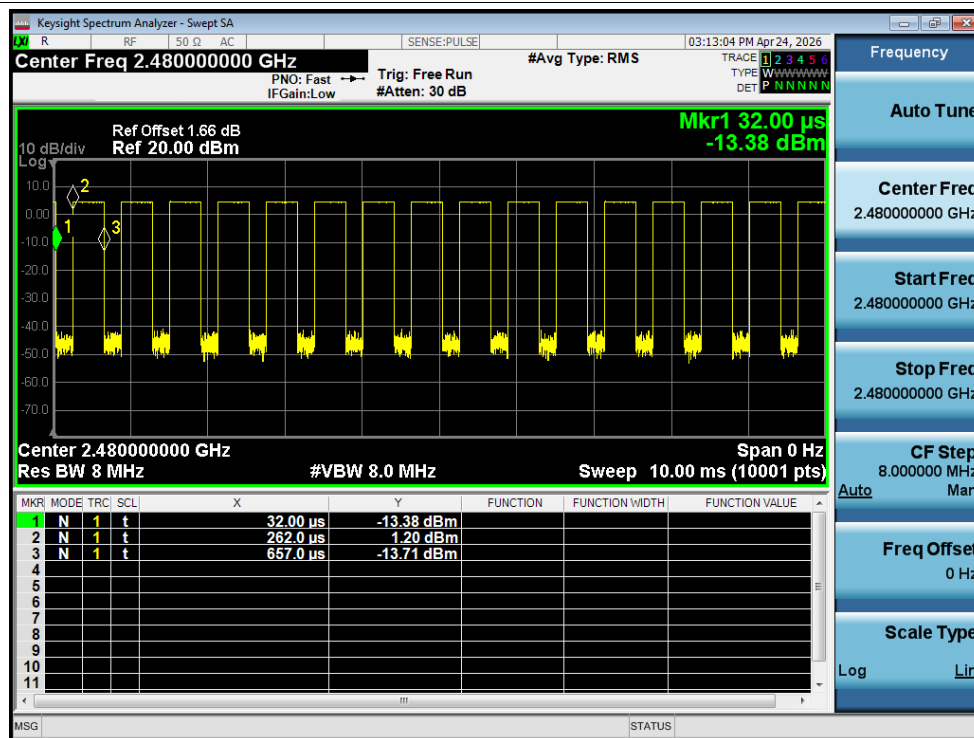
| Condition | Mode   | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | BLE 1M | 2402            | Ant1    | 63.04          | 2                      | 2.54      |
| NVNT      | BLE 1M | 2440            | Ant1    | 63.04          | 2                      | 2.54      |
| NVNT      | BLE 1M | 2480            | Ant1    | 63.2           | 1.99                   | 2.53      |
| NVNT      | BLE 2M | 2402            | Ant1    | 33.44          | 4.76                   | 4.78      |
| NVNT      | BLE 2M | 2440            | Ant1    | 33.44          | 4.76                   | 4.78      |
| NVNT      | BLE 2M | 2480            | Ant1    | 33.44          | 4.76                   | 4.78      |



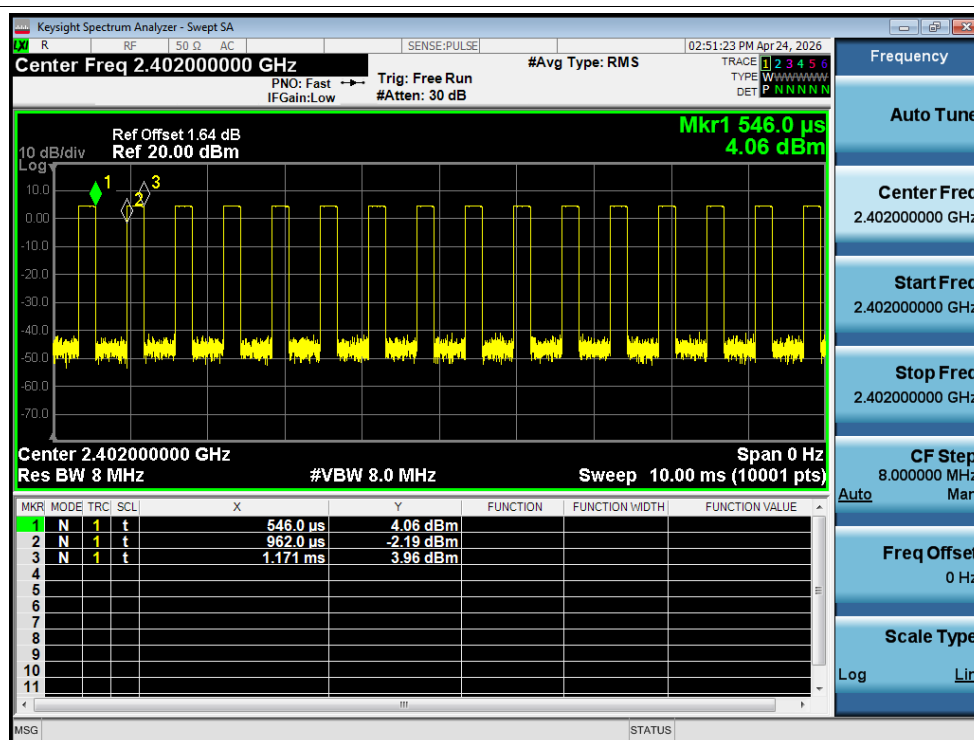
Duty Cycle NVNT BLE 1M 2402MHz Ant1



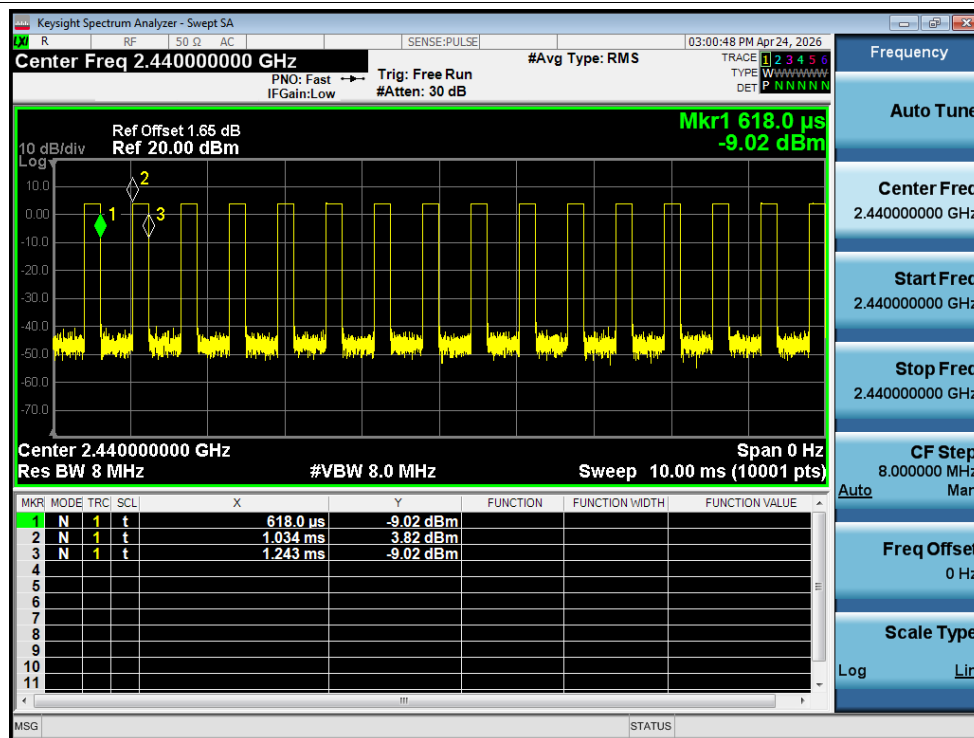
Duty Cycle NVNT BLE 1M 2440MHz Ant1



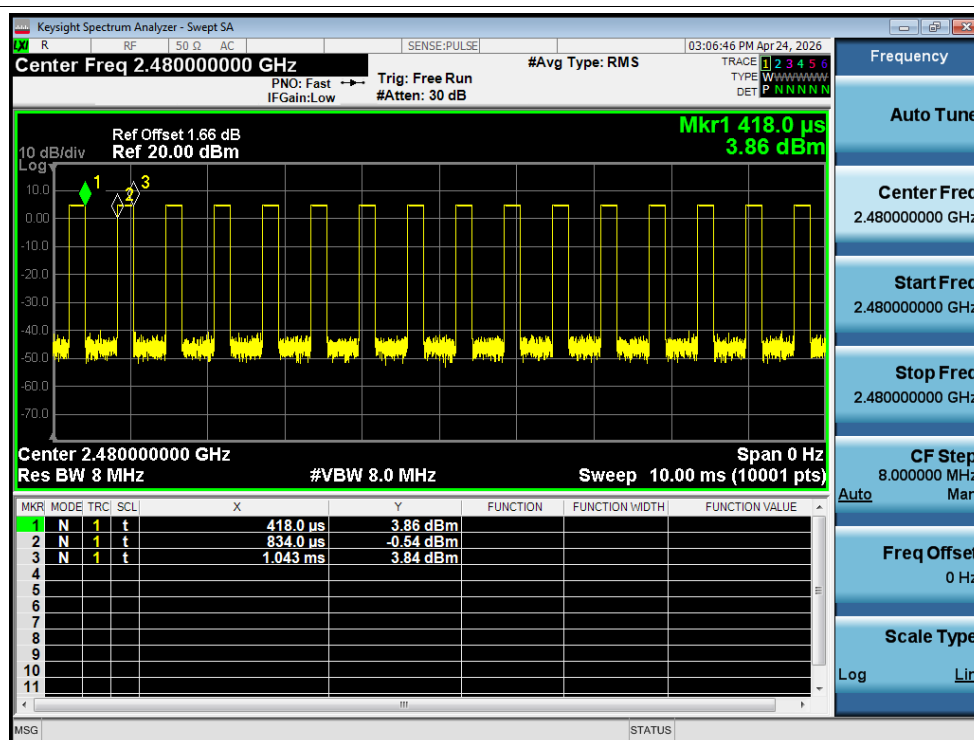
Duty Cycle NVNT BLE 1M 2480MHz Ant1



Duty Cycle NVNT BLE 2M 2402MHz Ant1



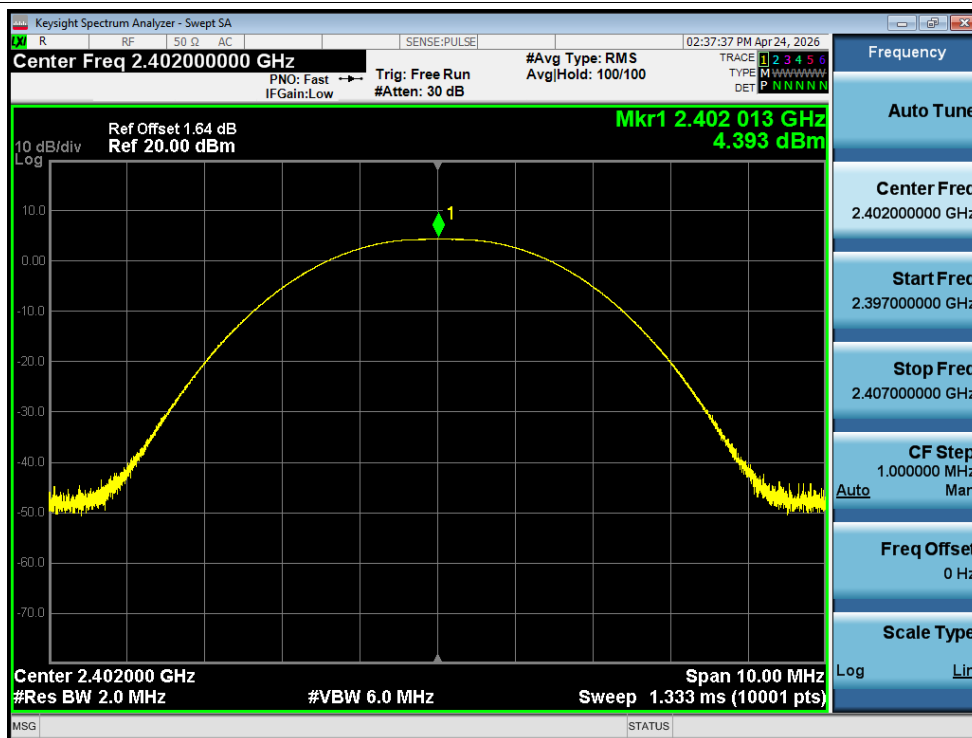
Duty Cycle NVNT BLE 2M 2440MHz Ant1



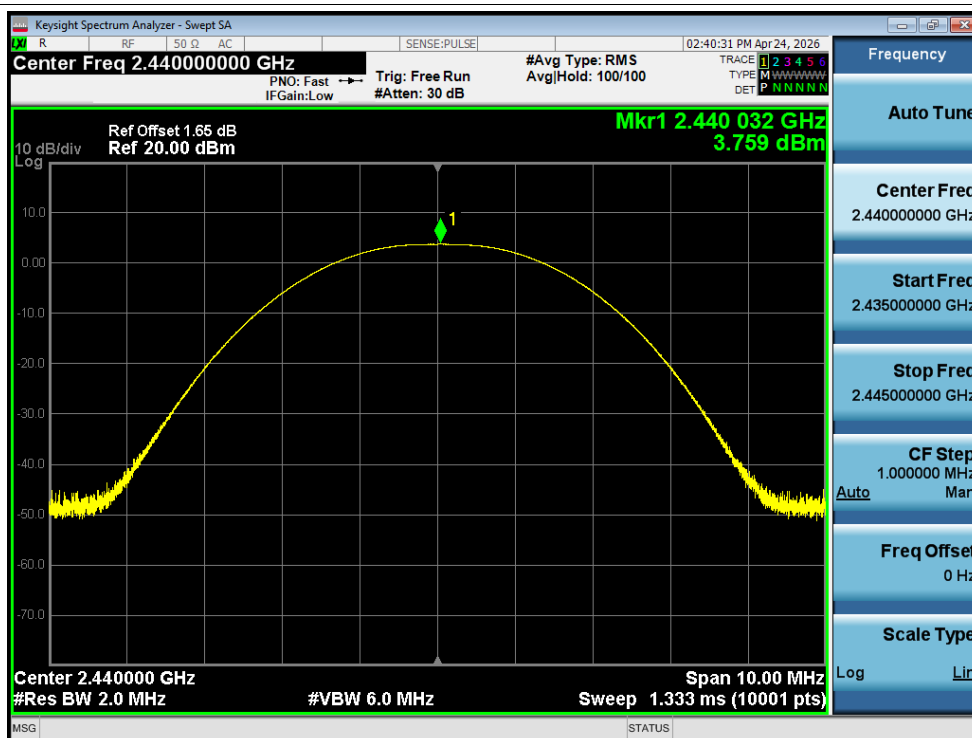
Duty Cycle NVNT BLE 2M 2480MHz Ant1

## Maximum Peak Conducted Output Power

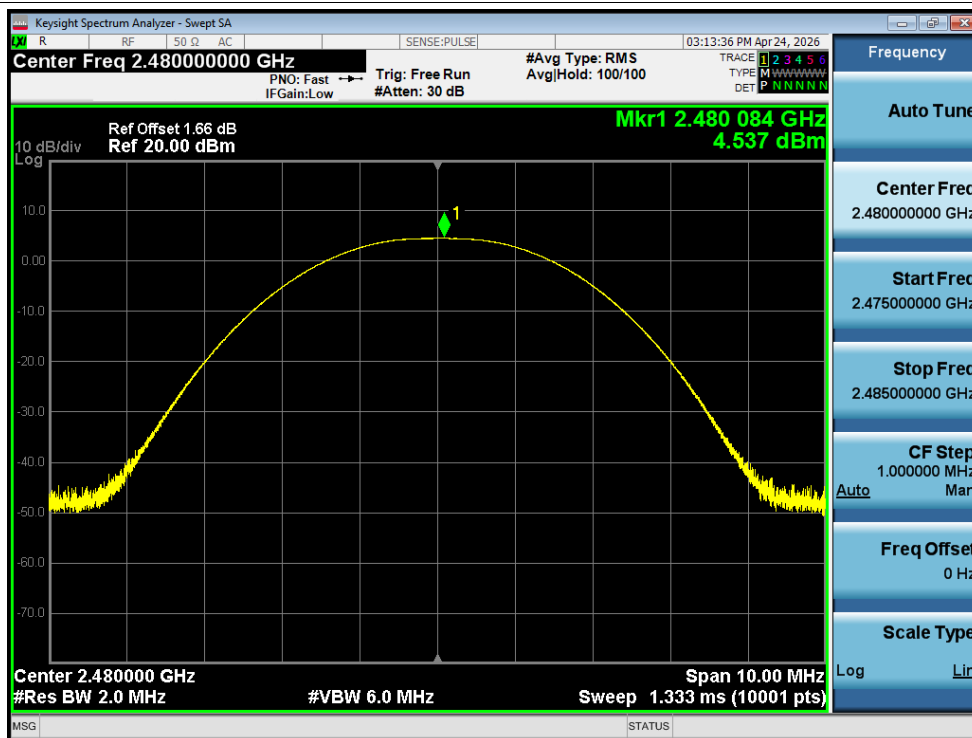
| Condition | Mode   | Frequency (MHz) | Antenna | Conducted Power (dBm) | Conducted Power (W) | Limit Conducted (dBm) | Antenna Gain (dBi) | E.I.R.P. (dBm) | E.I.R.P. Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|---------------------|-----------------------|--------------------|----------------|----------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 4.39                  | 0.00275             | 30                    | 4.77               | 9.16           | 36.02                | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 3.76                  | 0.00238             | 30                    | 4.77               | 8.53           | 36.02                | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 4.54                  | 0.00284             | 30                    | 4.77               | 9.31           | 36.02                | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 4.49                  | 0.00281             | 30                    | 4.77               | 9.26           | 36.02                | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 3.88                  | 0.00244             | 30                    | 4.77               | 8.65           | 36.02                | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 4.70                  | 0.00295             | 30                    | 4.77               | 9.47           | 36.02                | Pass    |



Peak Power NVNT BLE 1M 2402MHz Ant1



Peak Power NVNT BLE 1M 2440MHz Ant1



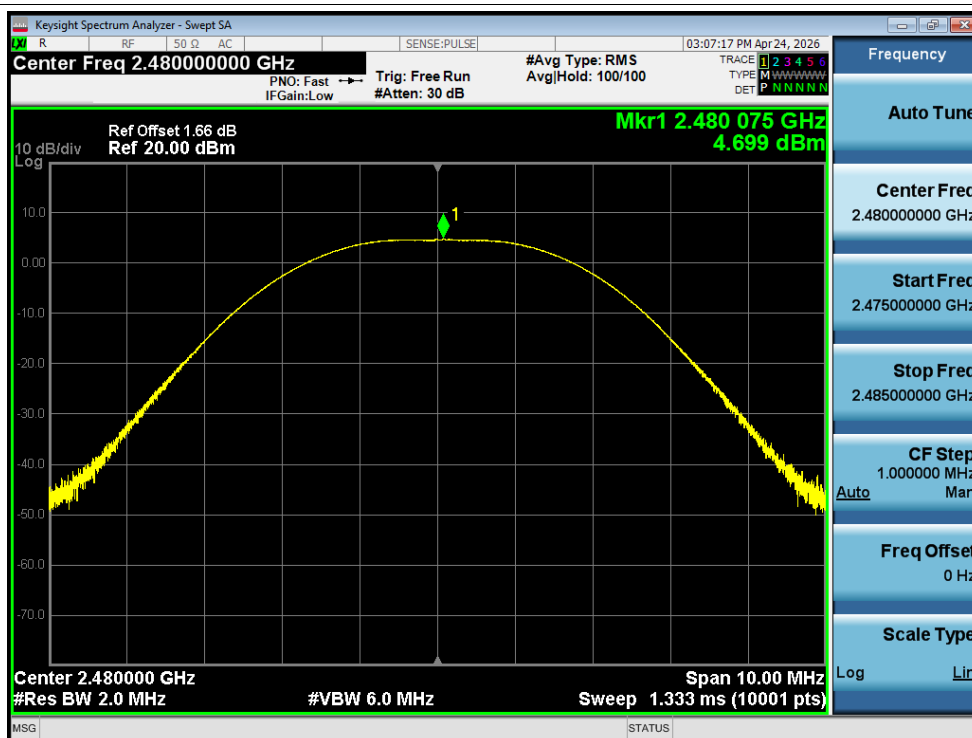
Peak Power NVNT BLE 1M 2480MHz Ant1



Peak Power NVNT BLE 2M 2402MHz Ant1



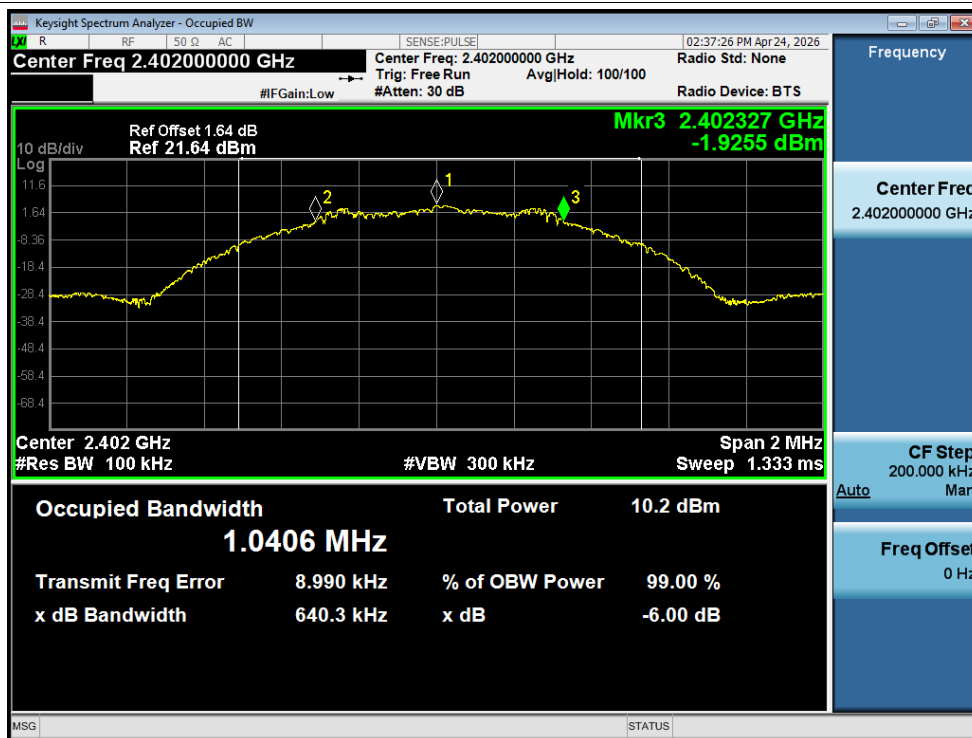
Peak Power NVNT BLE 2M 2440MHz Ant1



Peak Power NVNT BLE 2M 2480MHz Ant1

## -6dB Bandwidth

| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.6403                | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.655                 | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.6474                | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.122                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 1.116                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.13                  | 0.5                         | Pass    |



-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



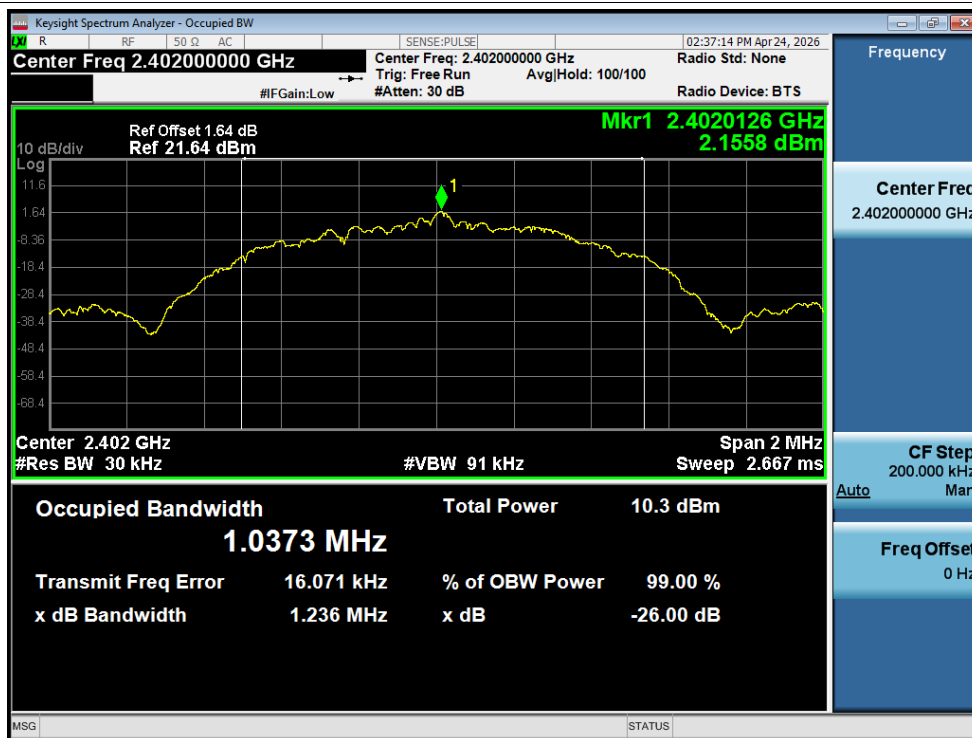
-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



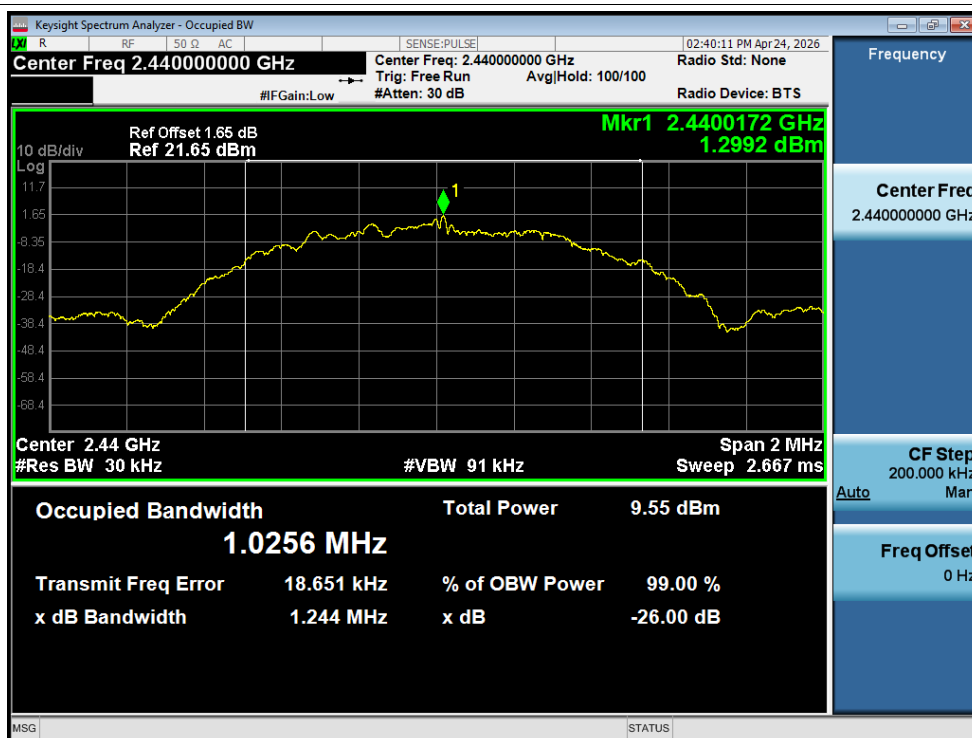
-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

## Occupied Channel Bandwidth

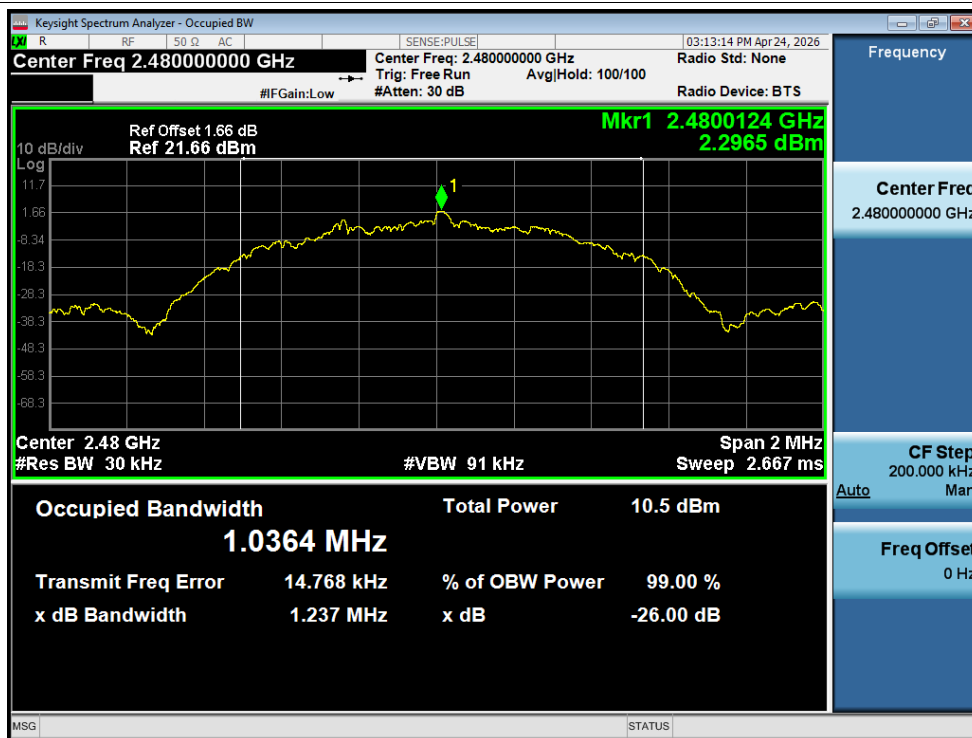
| Condition | Mode   | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT      | BLE 1M | 2402            | Ant1    | 1.0373        |
| NVNT      | BLE 1M | 2440            | Ant1    | 1.0256        |
| NVNT      | BLE 1M | 2480            | Ant1    | 1.0364        |
| NVNT      | BLE 2M | 2402            | Ant1    | 2.0384        |
| NVNT      | BLE 2M | 2440            | Ant1    | 2.0562        |
| NVNT      | BLE 2M | 2480            | Ant1    | 2.0401        |



OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2440MHz Ant1



OBW NVNT BLE 1M 2480MHz Ant1



OBW NVNT BLE 2M 2402MHz Ant1



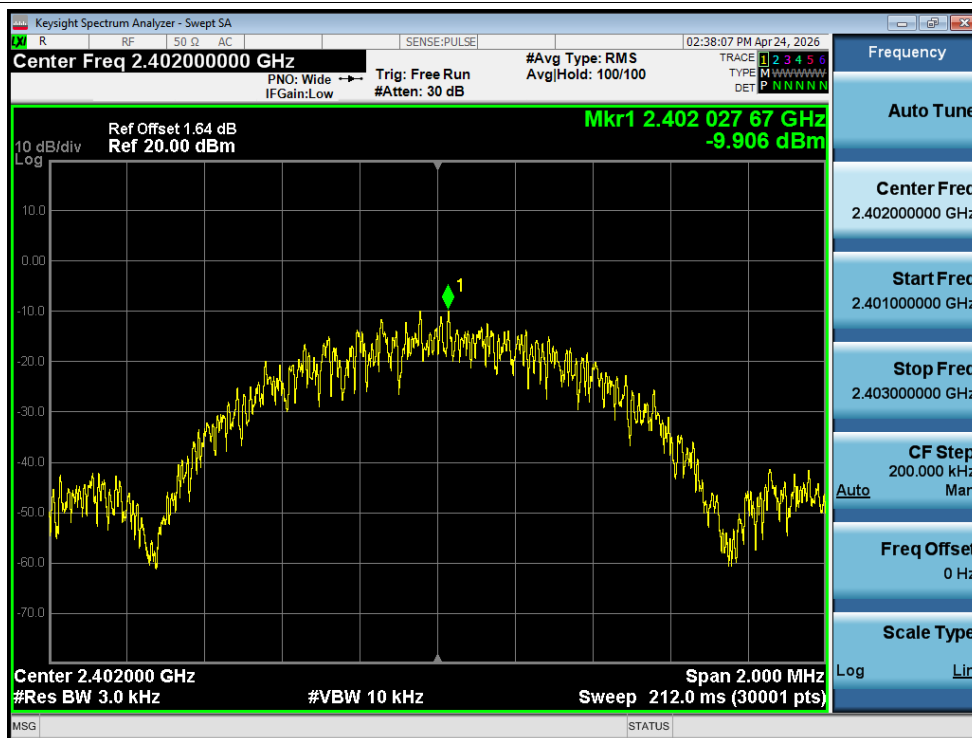
OBW NVNT BLE 2M 2440MHz Ant1



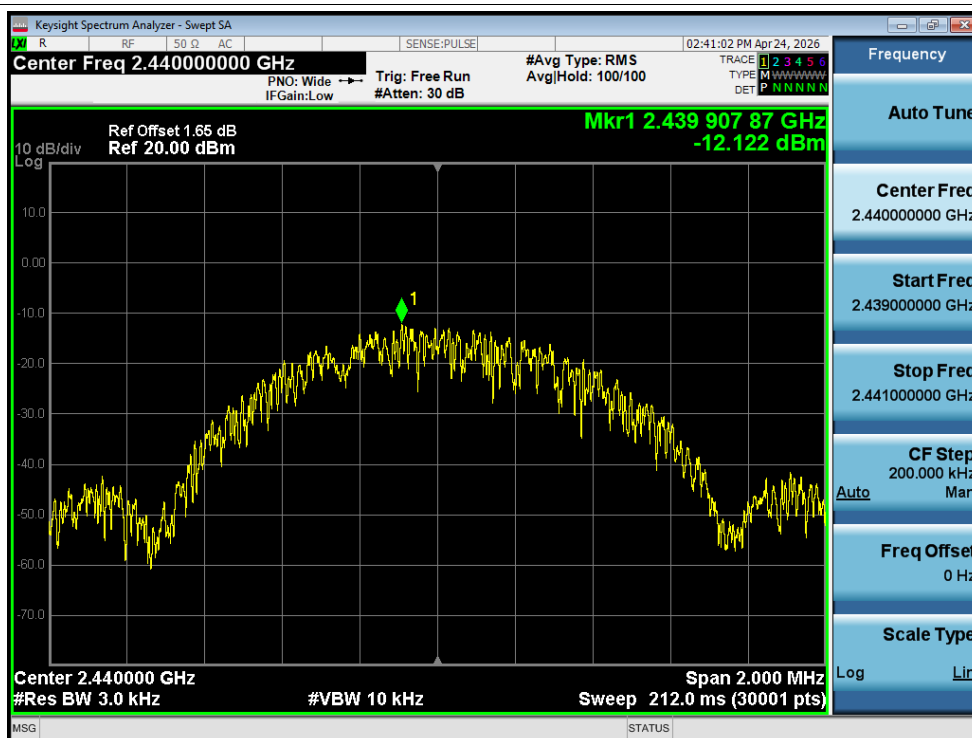
OBW NVNT BLE 2M 2480MHz Ant1

## Maximum Power Spectral Density Level

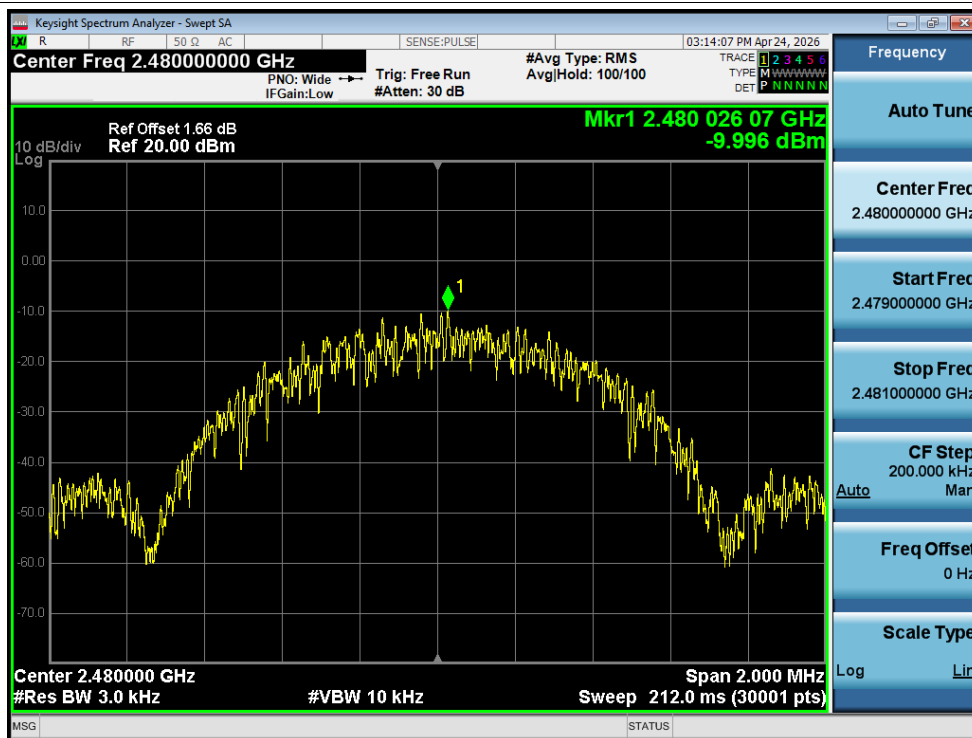
| Condition | Mode   | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|--------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -9.91                    | 8                | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -12.12                   | 8                | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -10                      | 8                | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -12.01                   | 8                | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -14.36                   | 8                | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -13.38                   | 8                | Pass    |



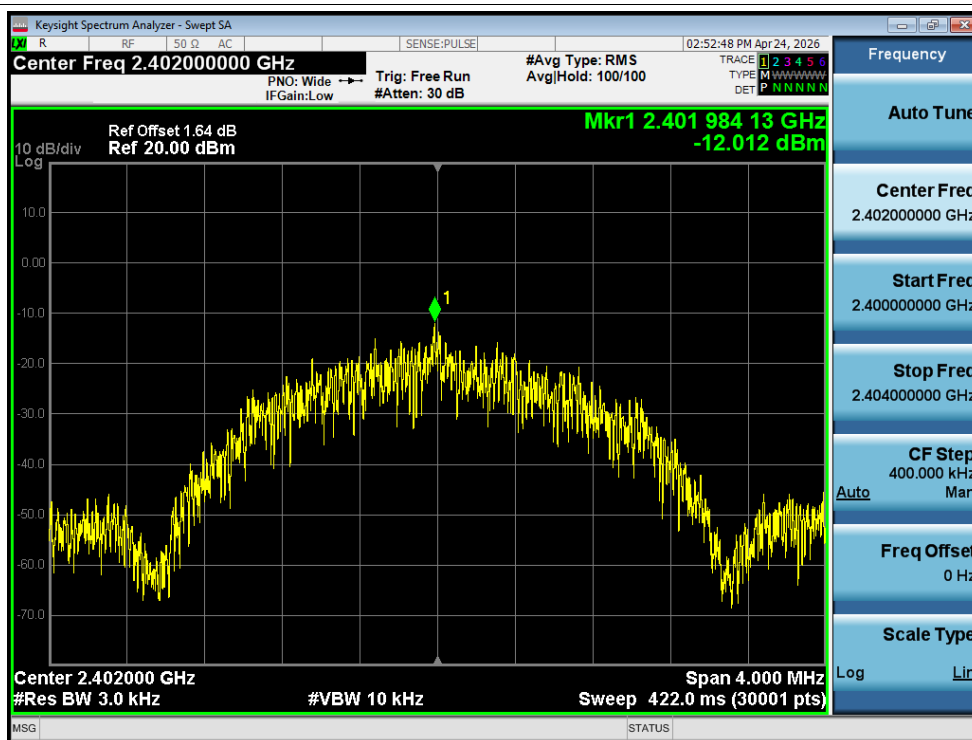
PSD NVNT BLE 1M 2402MHz Ant1



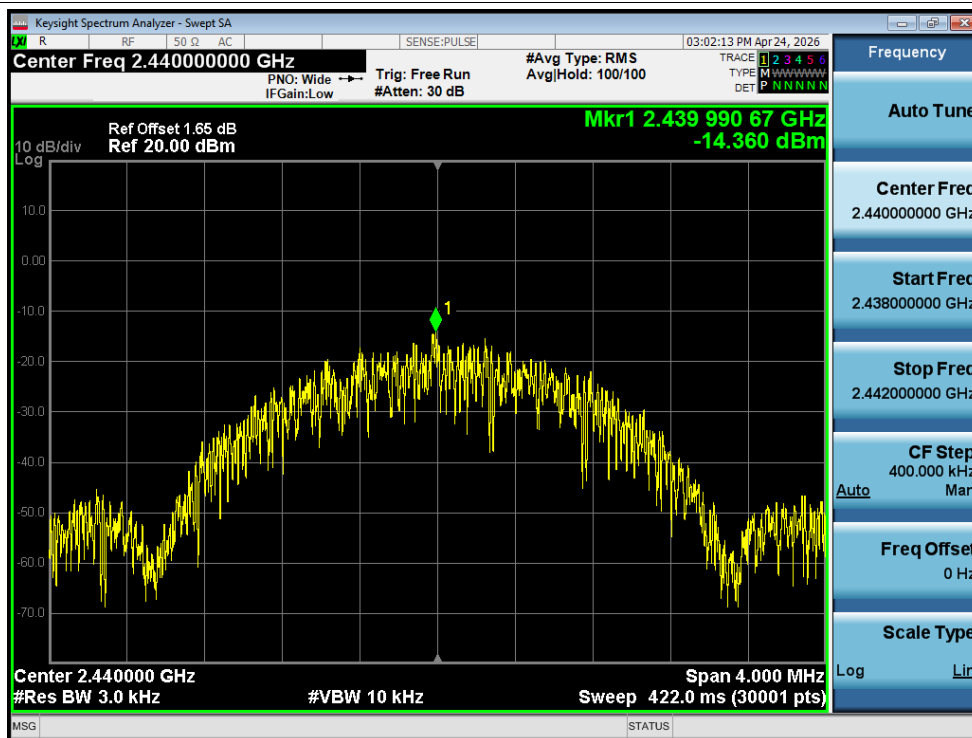
PSD NVNT BLE 1M 2440MHz Ant1



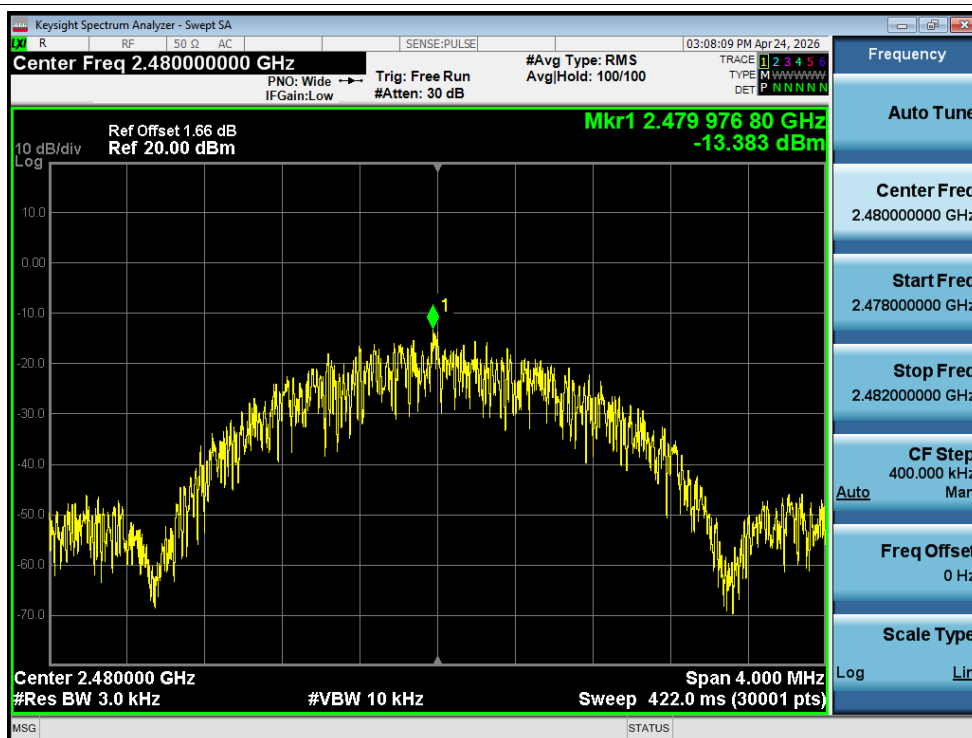
PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1



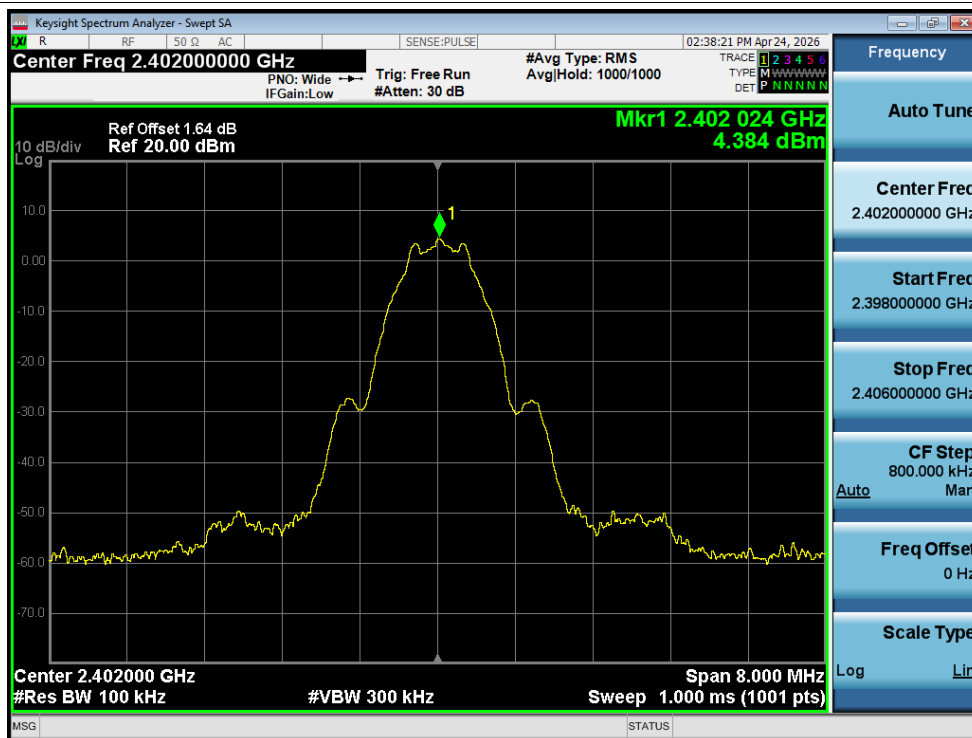
PSD NVNT BLE 2M 2440MHz Ant1



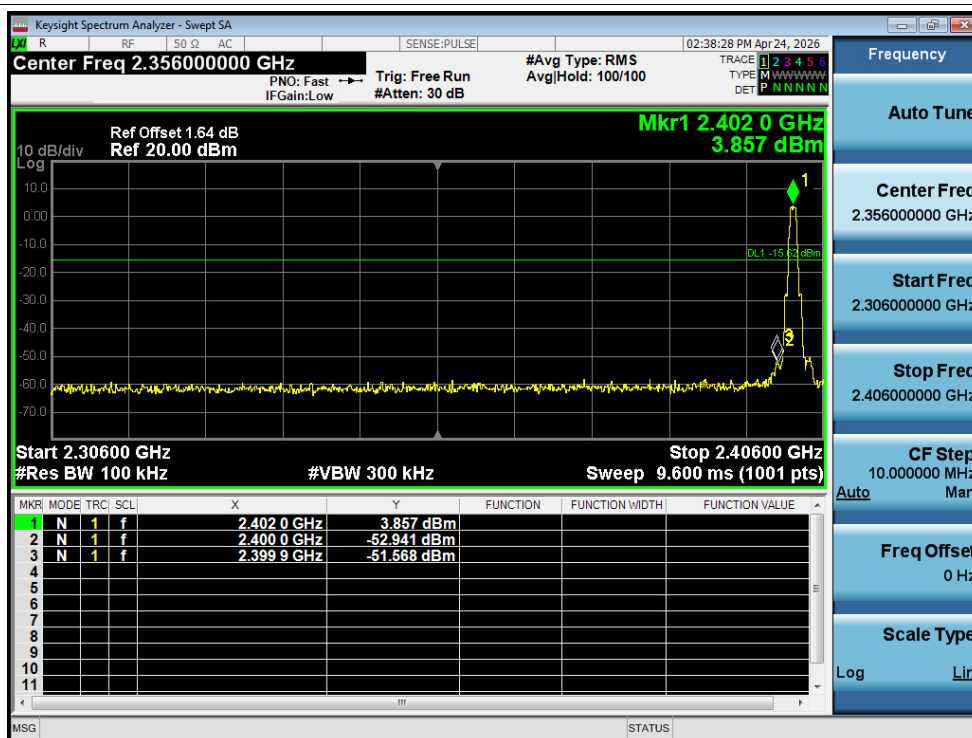
PSD NVNT BLE 2M 2480MHz Ant1

# Band Edge

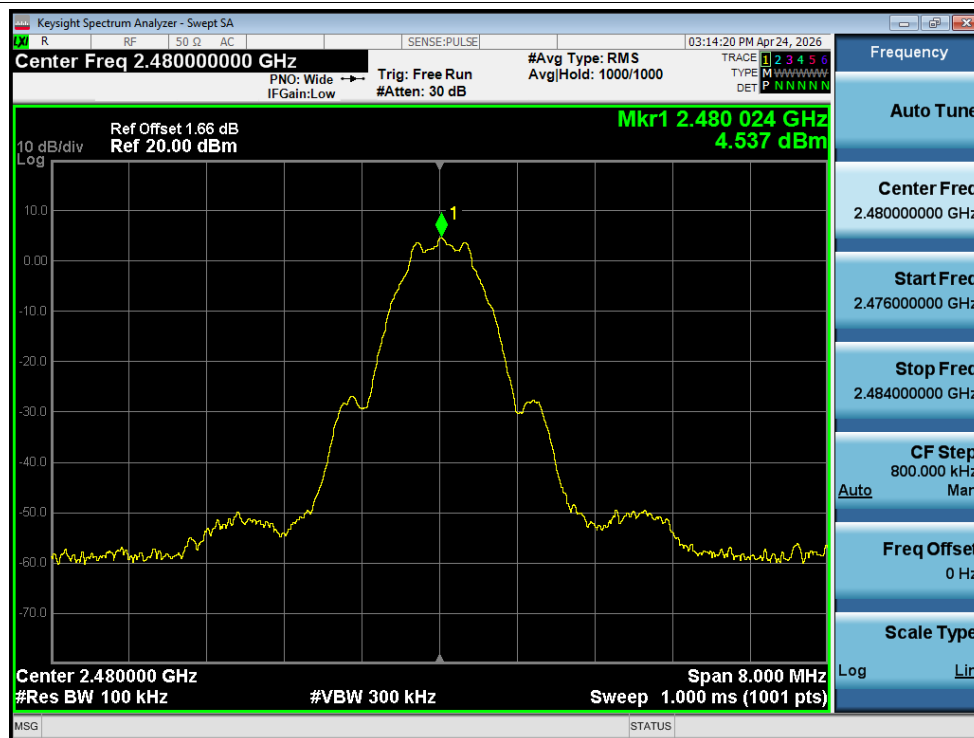
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -55.95          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -61.72          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -33.12          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -61.35          | -20         | Pass    |



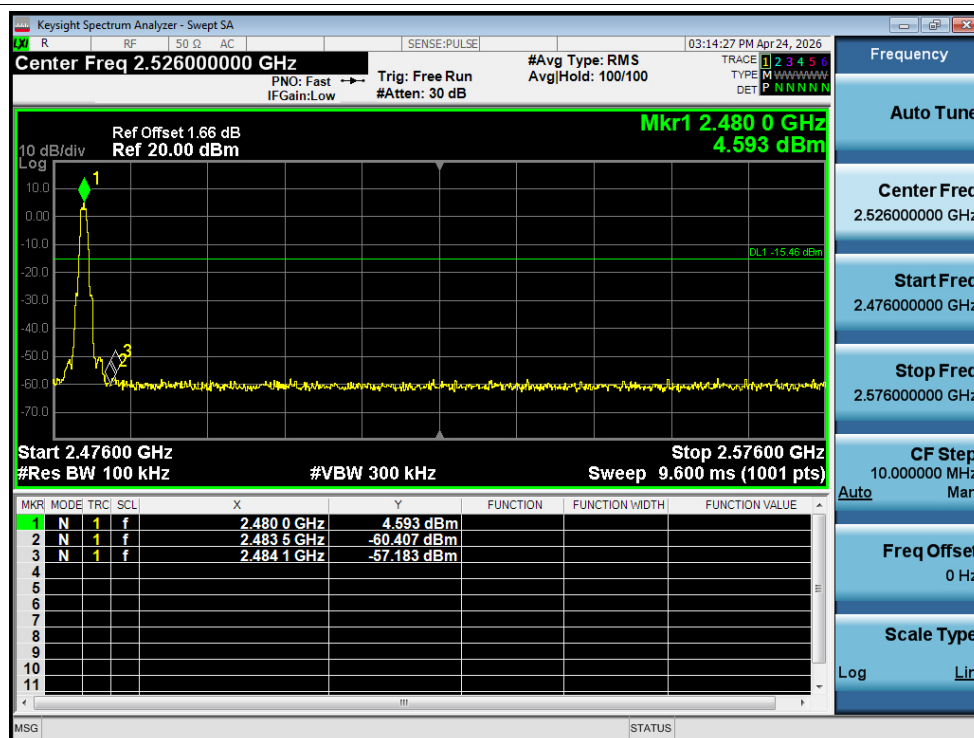
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



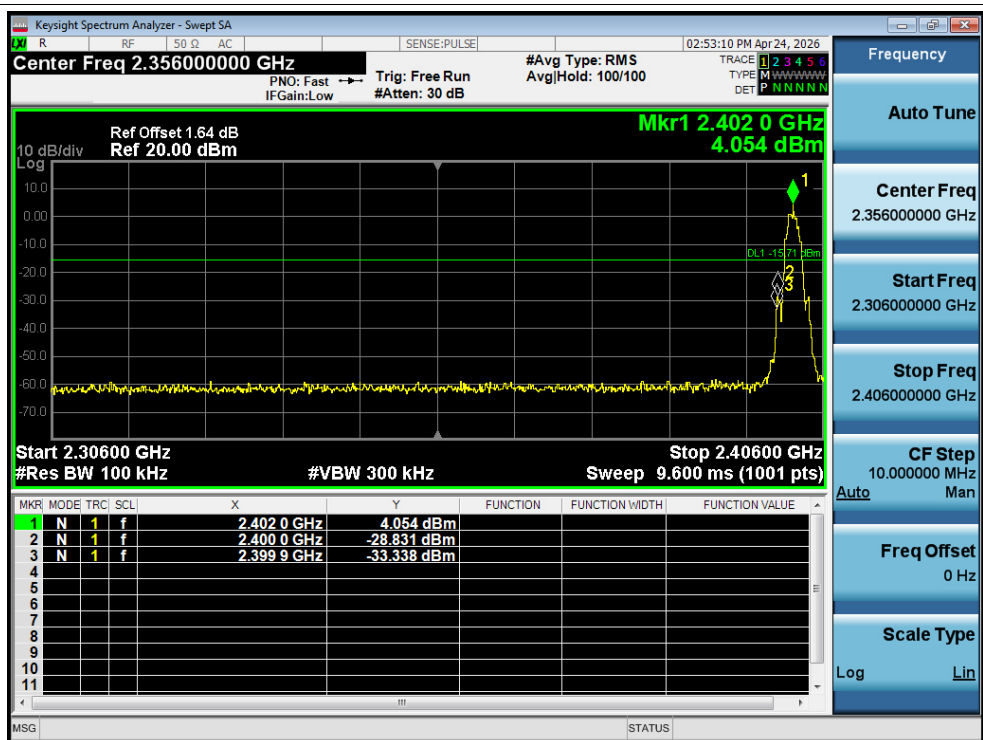
Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



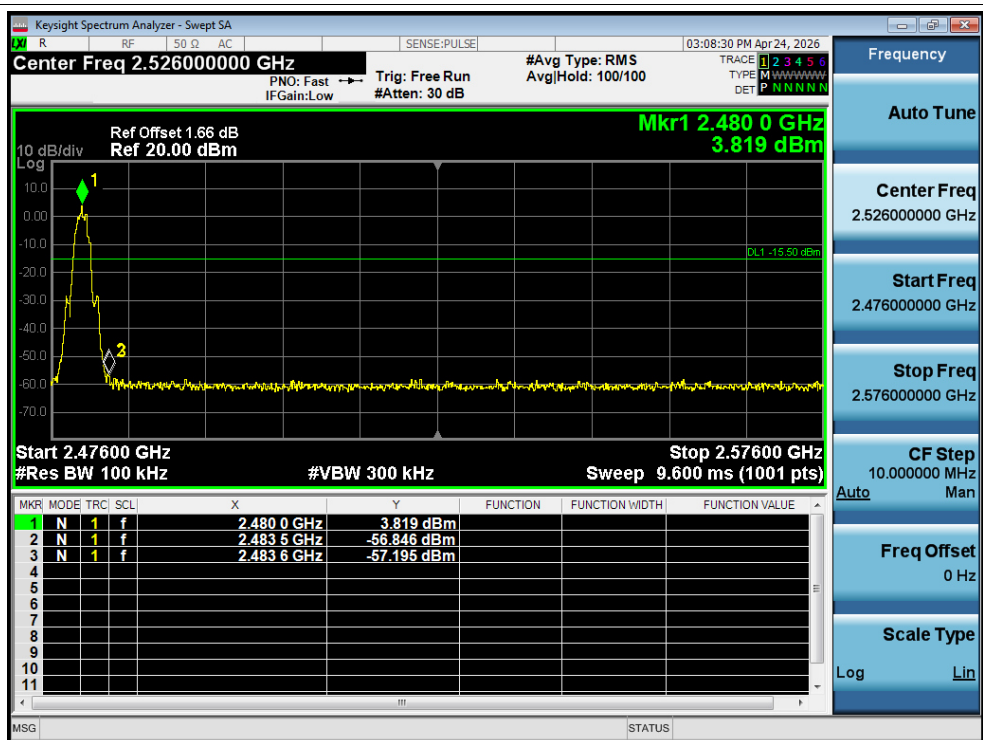
Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



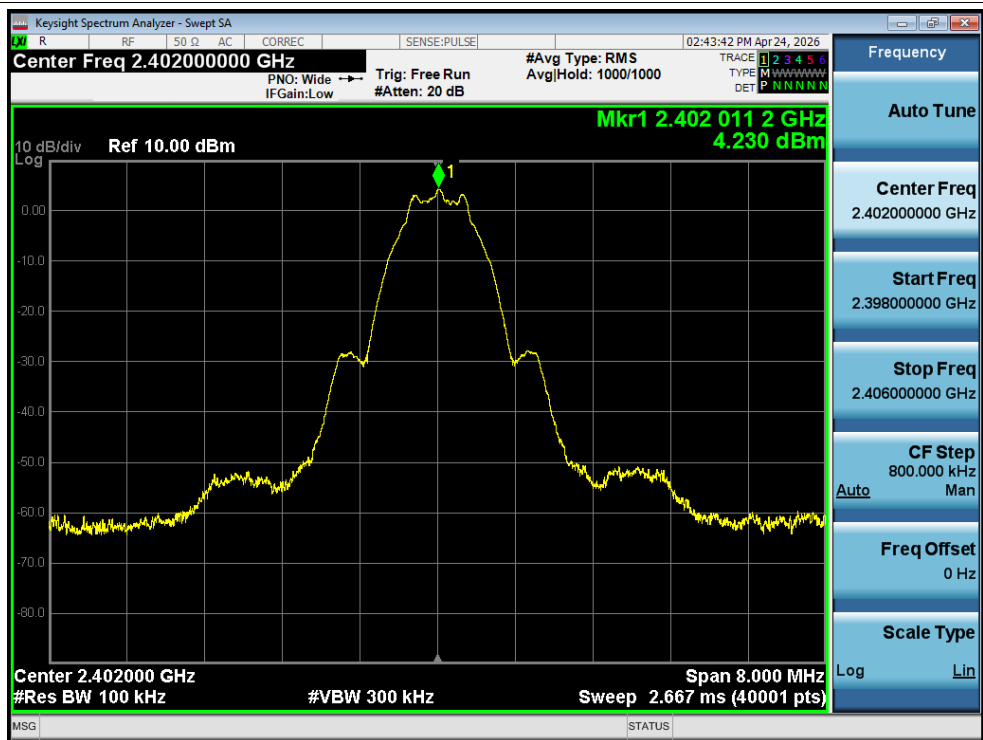
Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



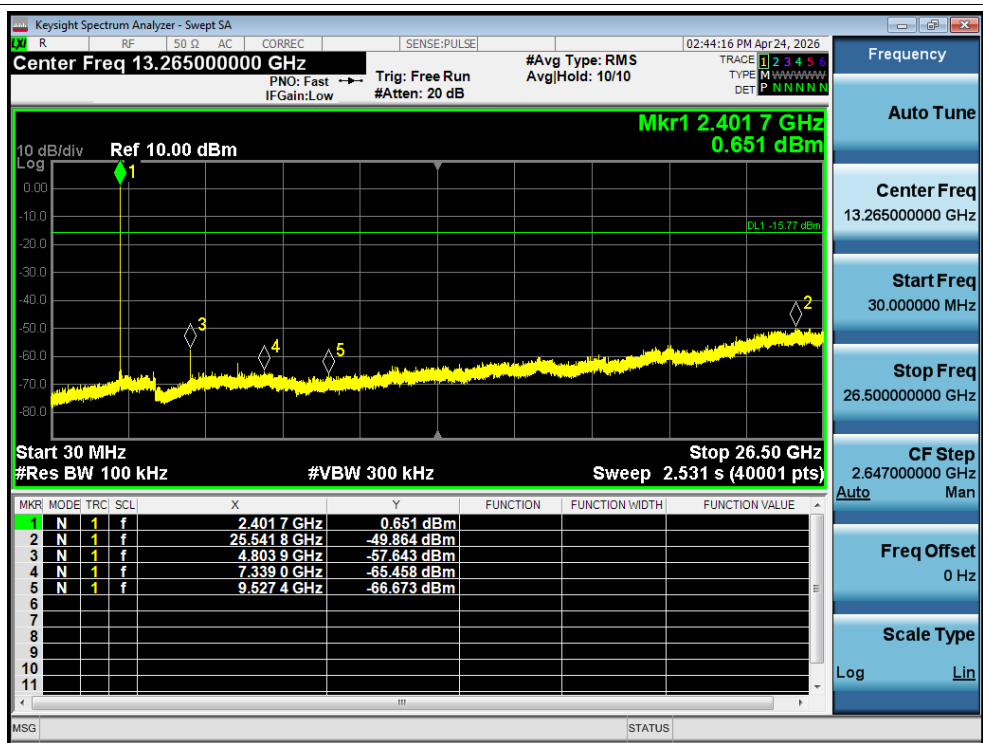
Band Edge NVNT BLE 2M 2480MHz Ant1 Emission

## Conducted RF Spurious Emission

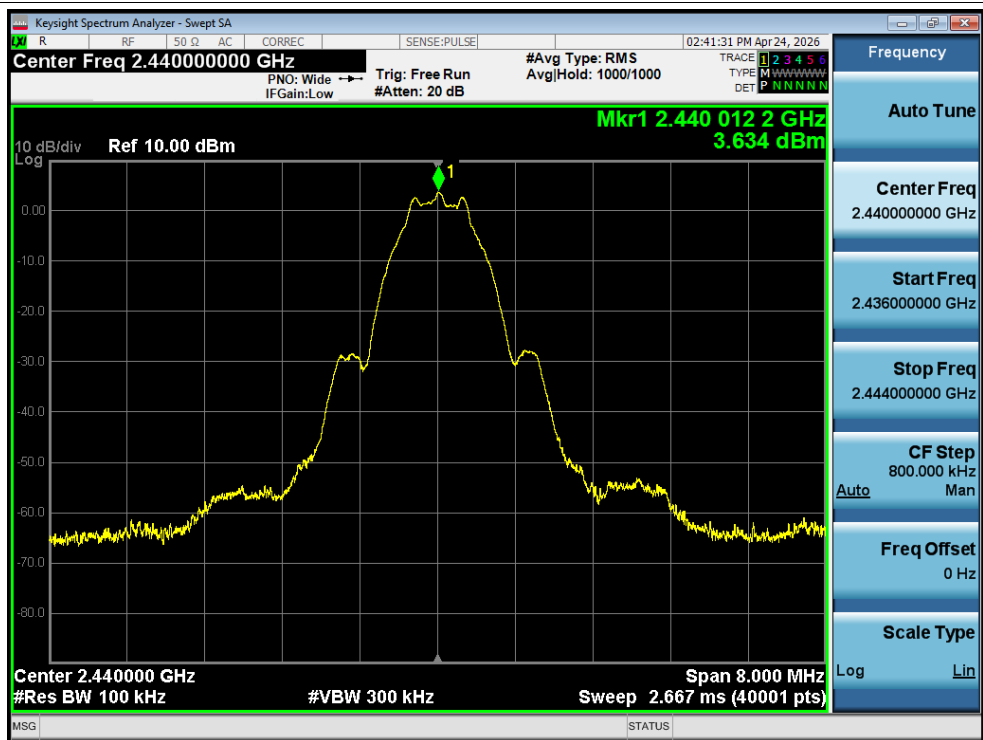
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -54.09          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -54.07          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -54.73          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -54.12          | -20         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -53.21          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -54.03          | -20         | Pass    |



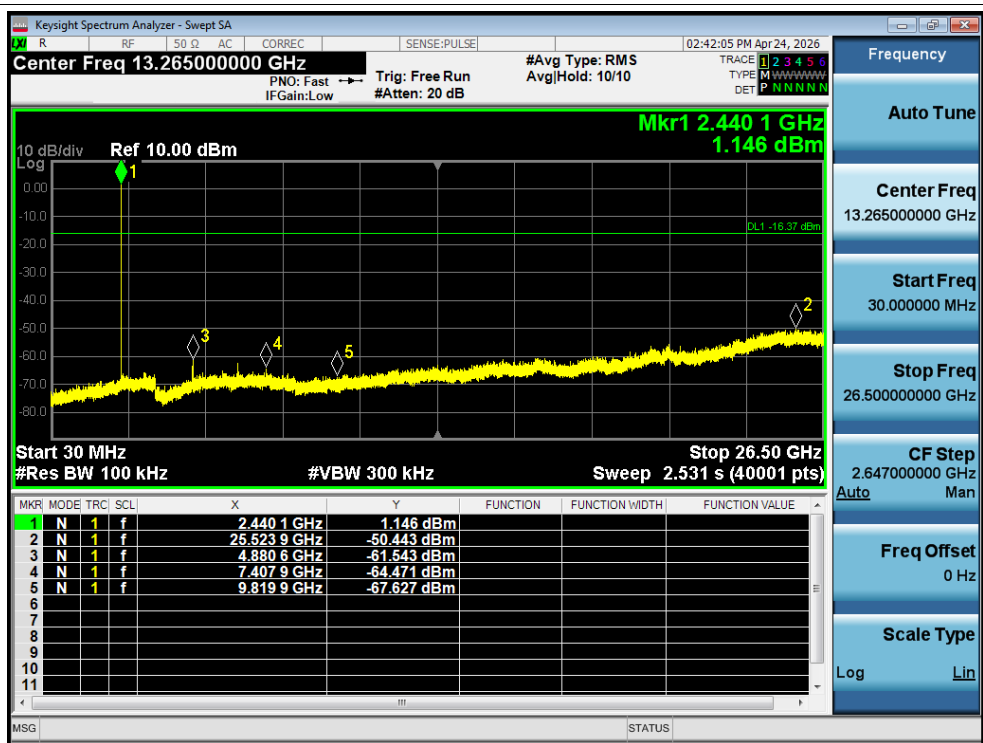
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



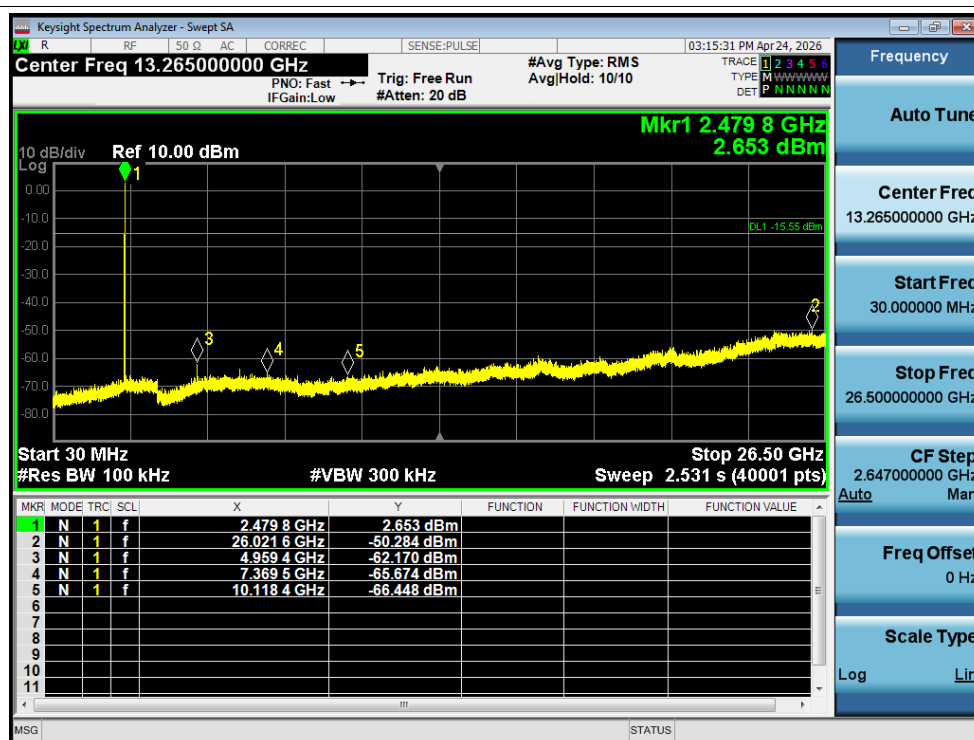
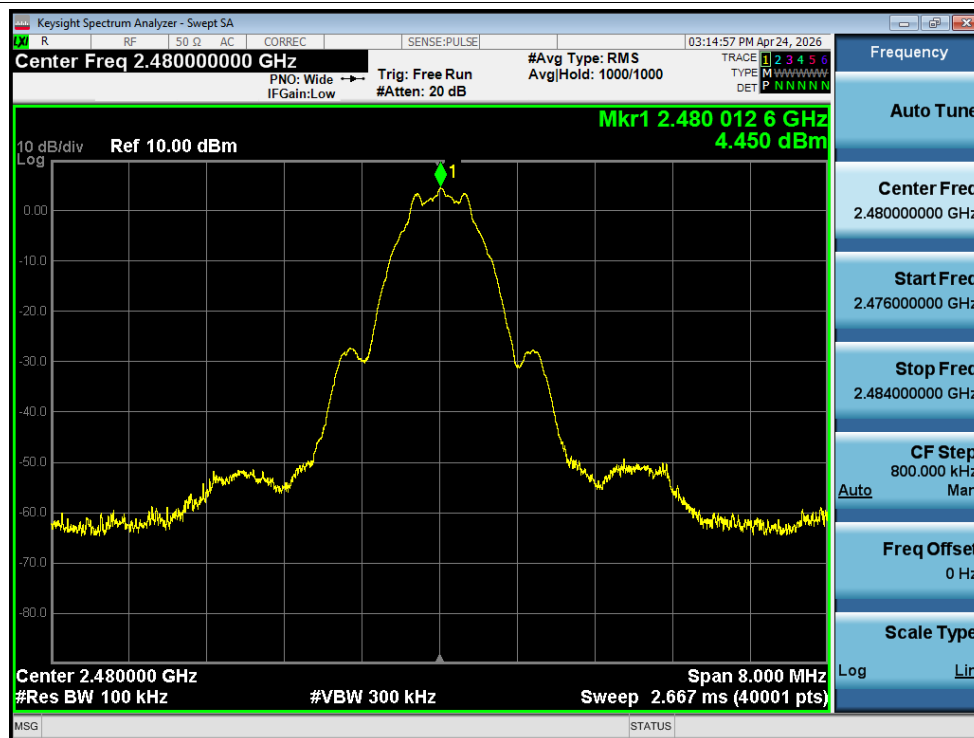
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref

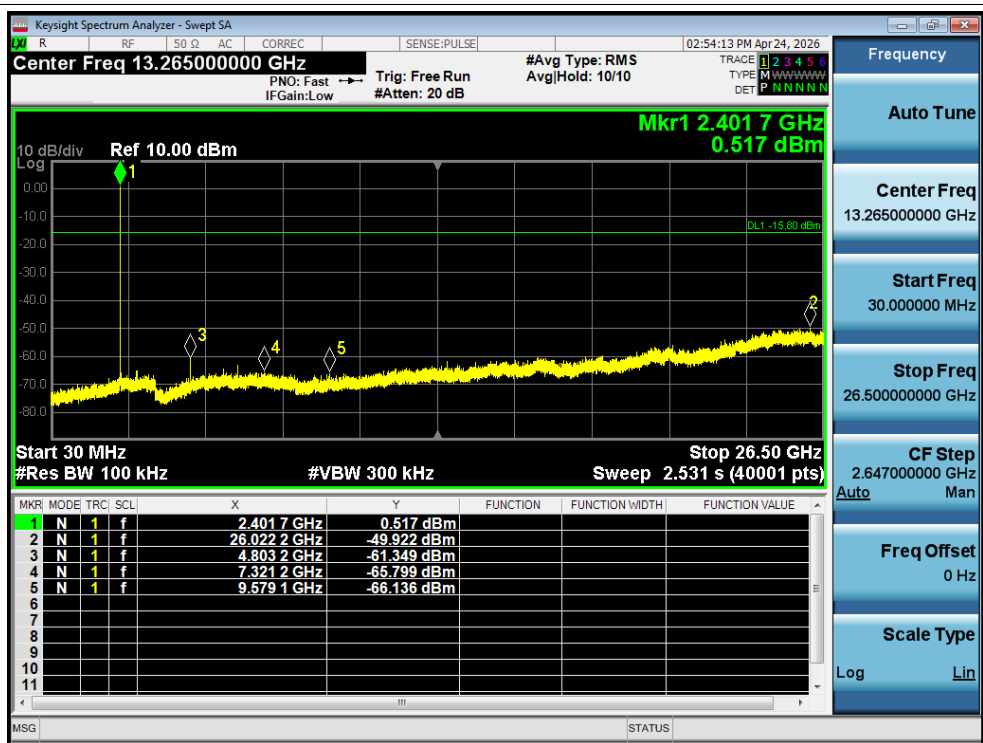


Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission





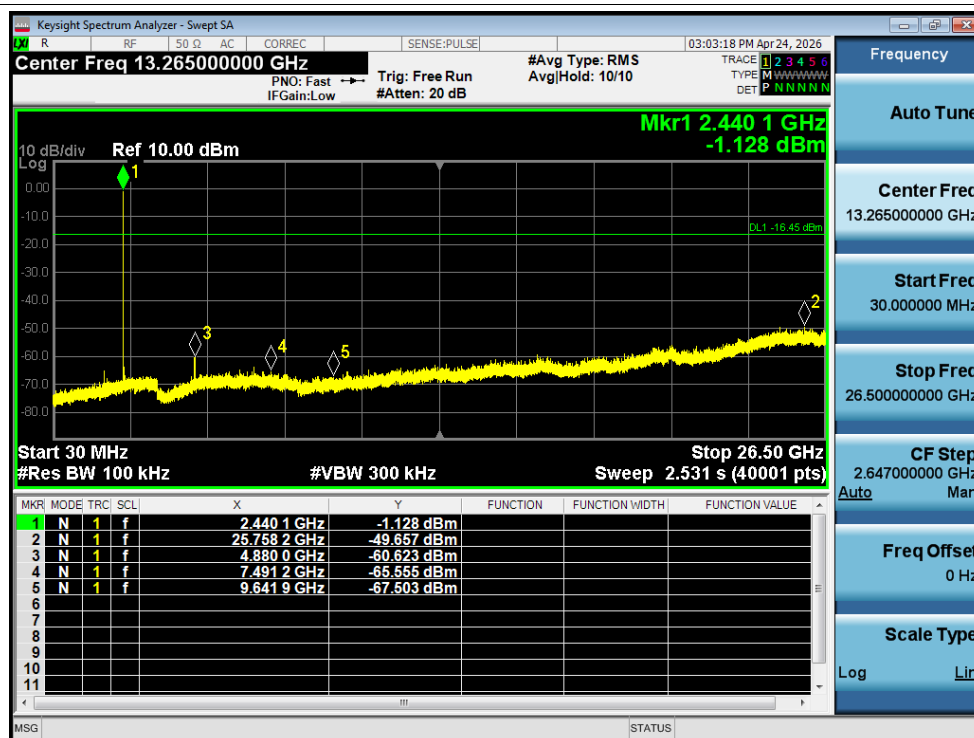
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



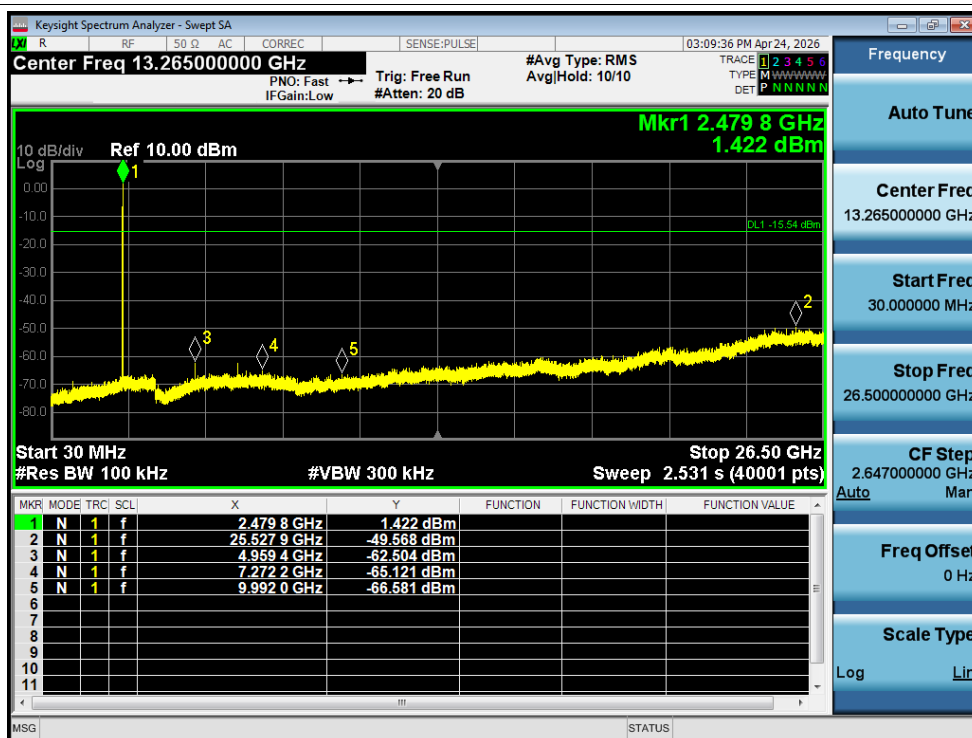
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission