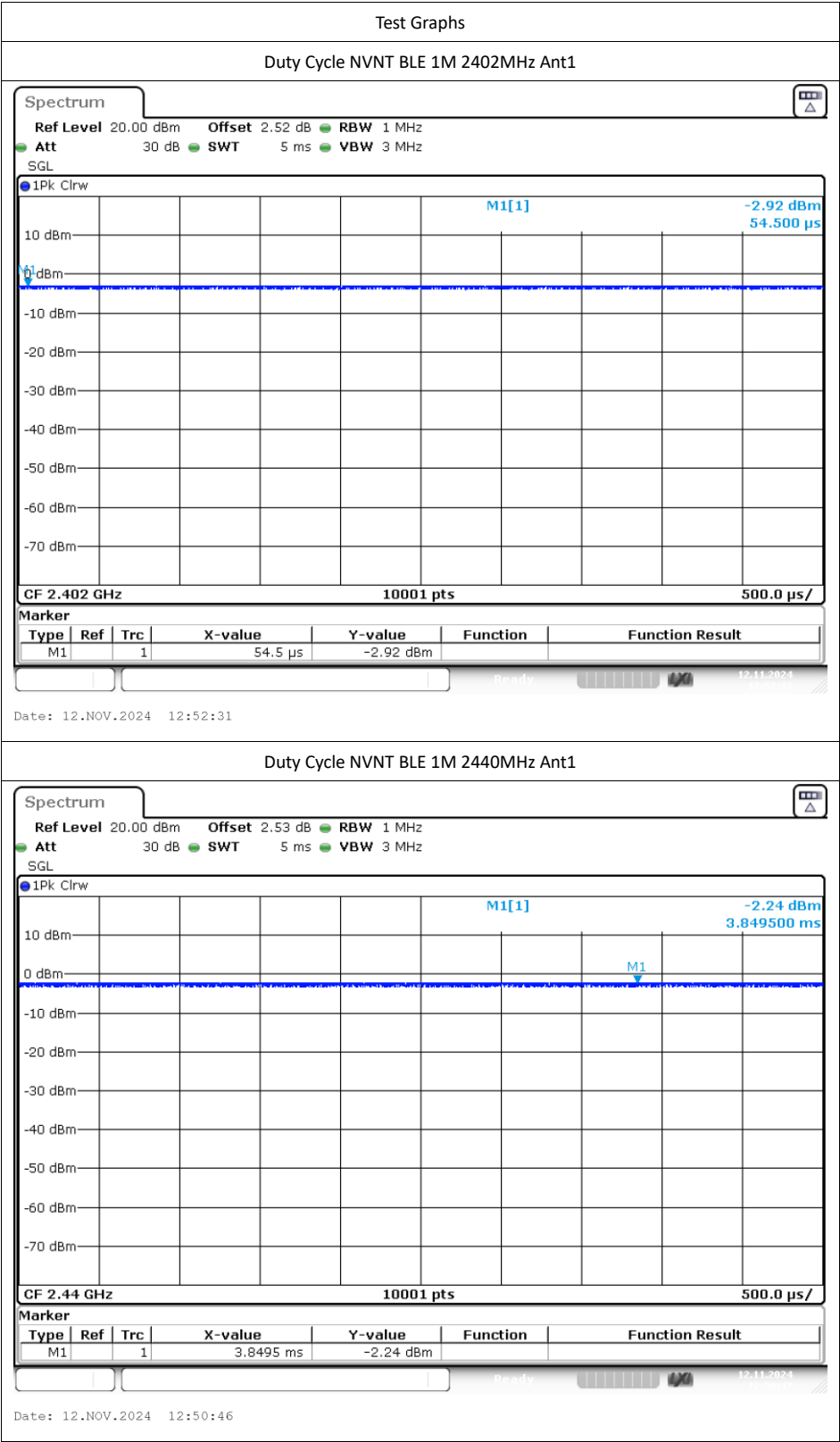
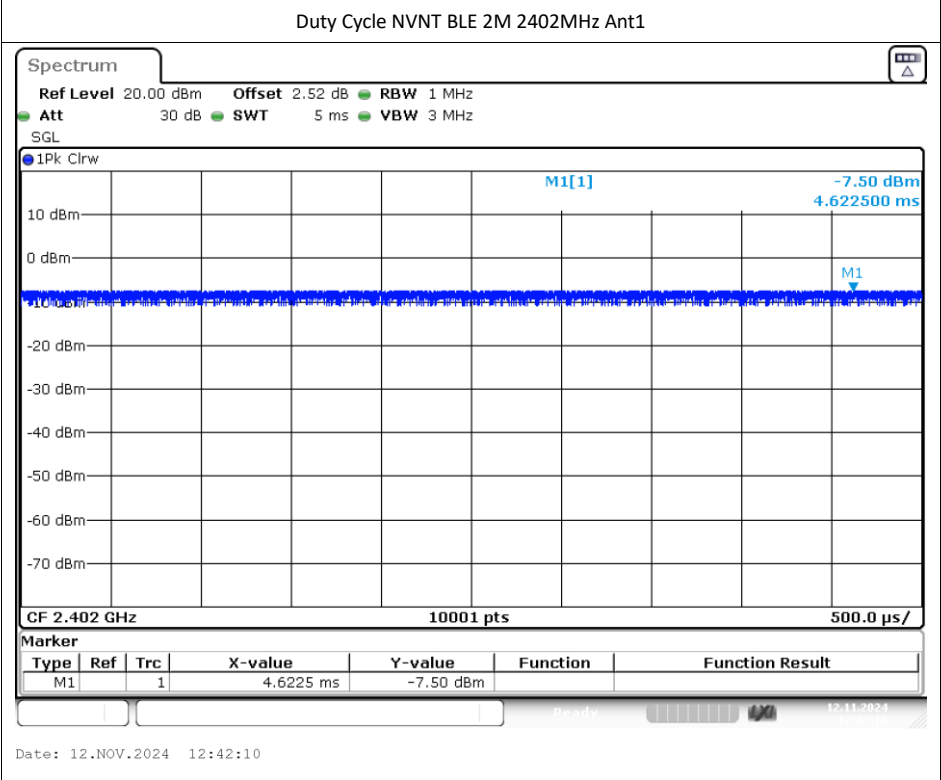
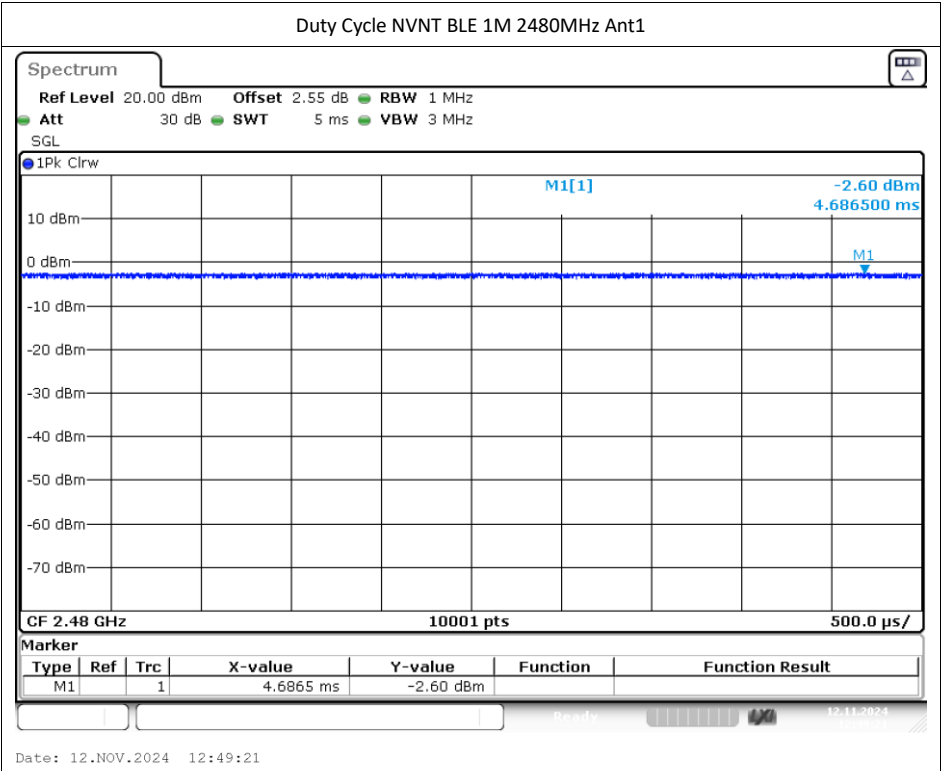


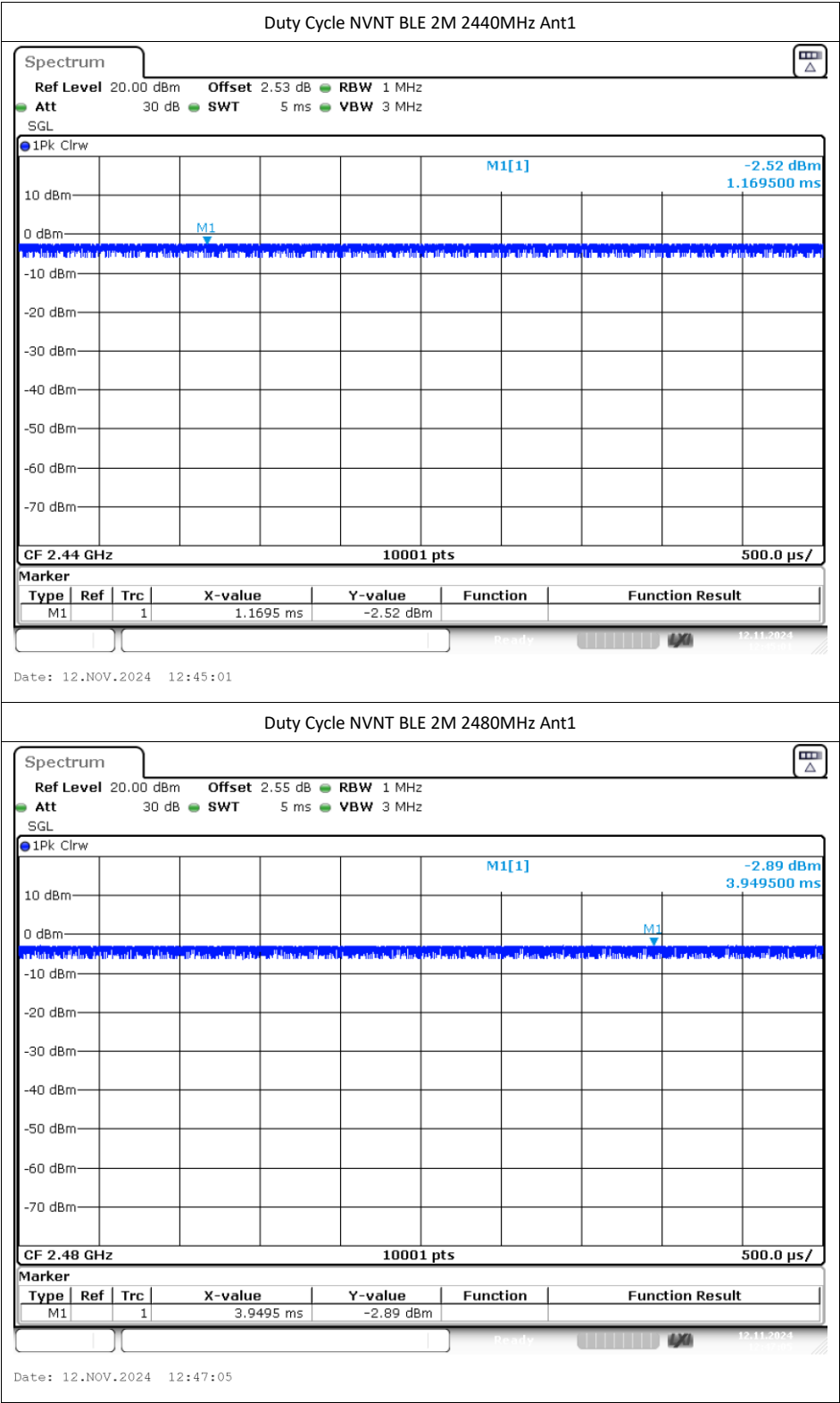
## Appendix B

### Duty Cycle

| Condition | Mode      | Frequency (MHz) | Antenna | On Time (ms) | Period (ms) | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) | Final settingFor VBW (kHz) |
|-----------|-----------|-----------------|---------|--------------|-------------|----------------|------------------------|-----------|----------------------------|
| NVNT      | BLE<br>1M | 2402            | Ant1    | 0            | 0           | 100            | 0                      | 0         | 1                          |
| NVNT      | BLE<br>1M | 2440            | Ant1    | 0            | 0           | 100            | 0                      | 0         | 1                          |
| NVNT      | BLE<br>1M | 2480            | Ant1    | 0            | 0           | 100            | 0                      | 0         | 1                          |
| NVNT      | BLE<br>2M | 2402            | Ant1    | 0            | 0           | 100            | 0                      | 0         | 1                          |
| NVNT      | BLE<br>2M | 2440            | Ant1    | 0            | 0           | 100            | 0                      | 0         | 1                          |
| NVNT      | BLE<br>2M | 2480            | Ant1    | 0            | 0           | 100            | 0                      | 0         | 1                          |



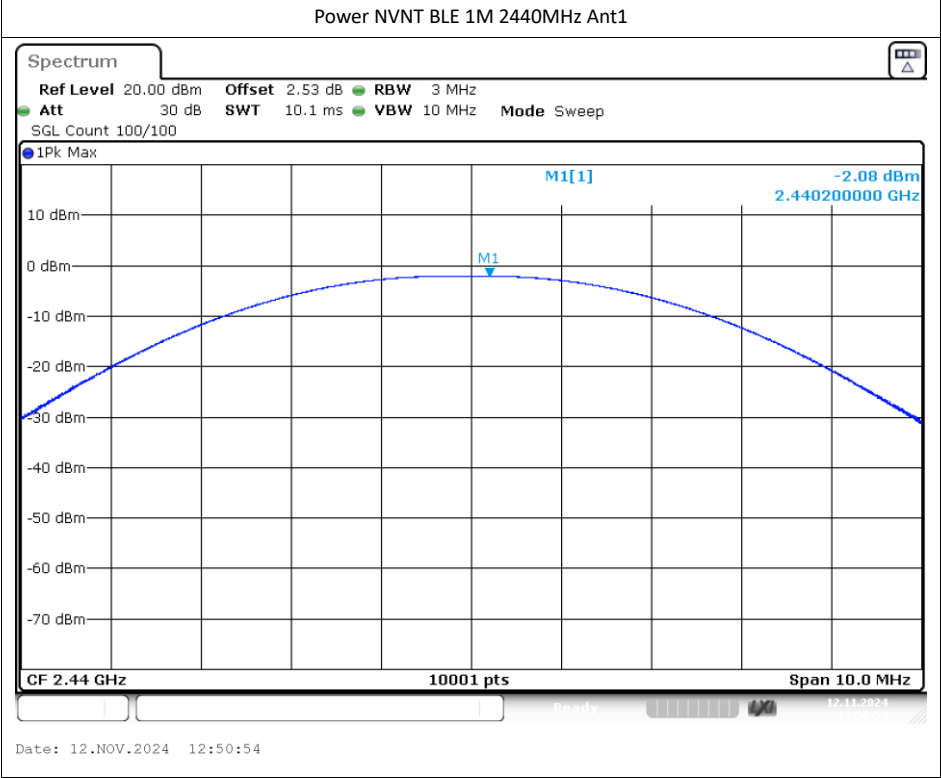
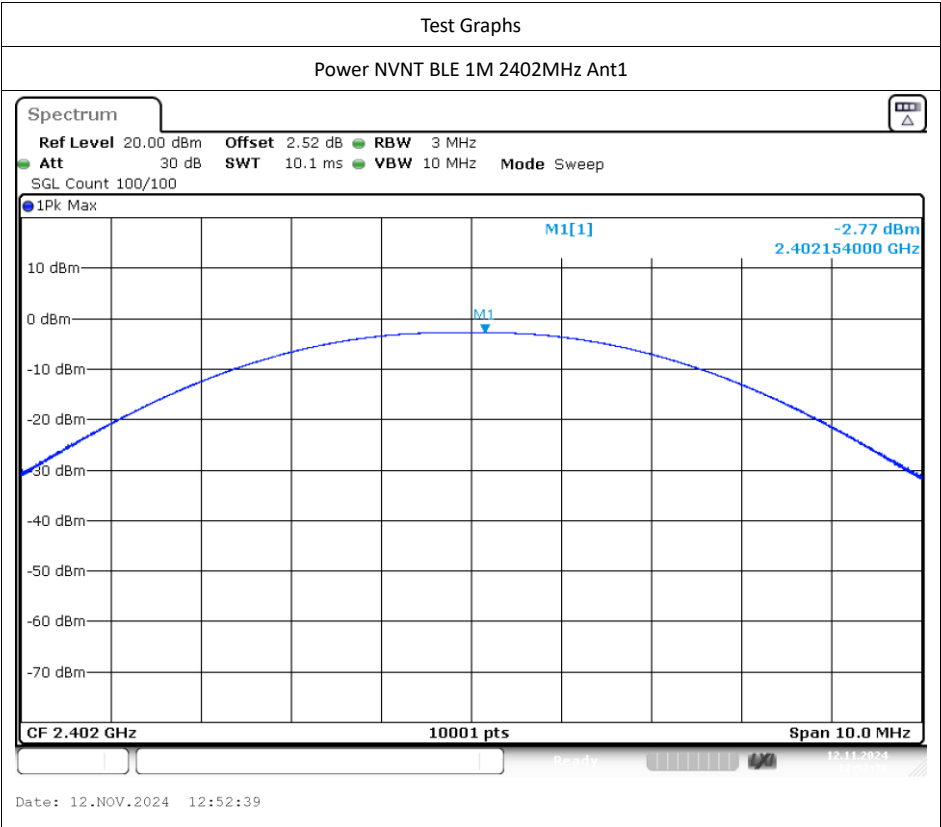


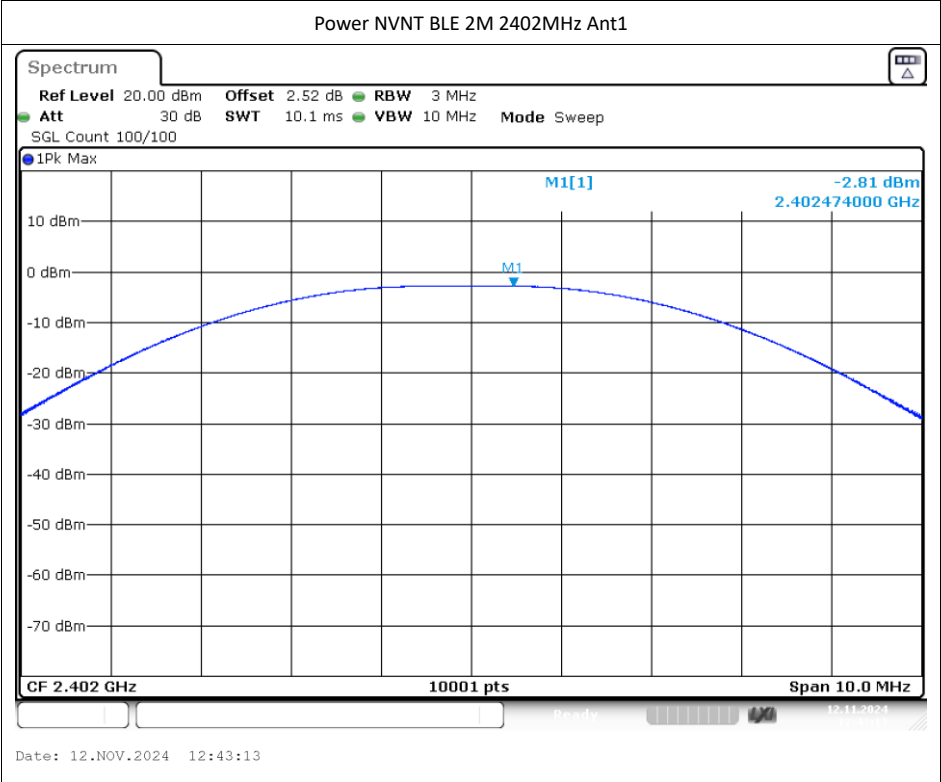
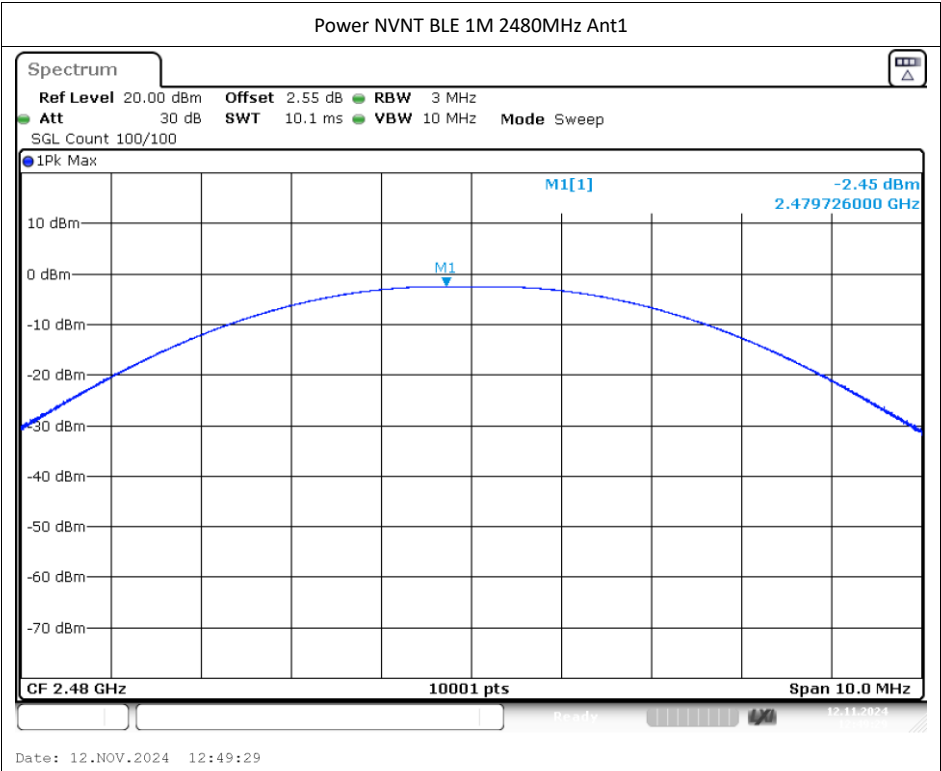


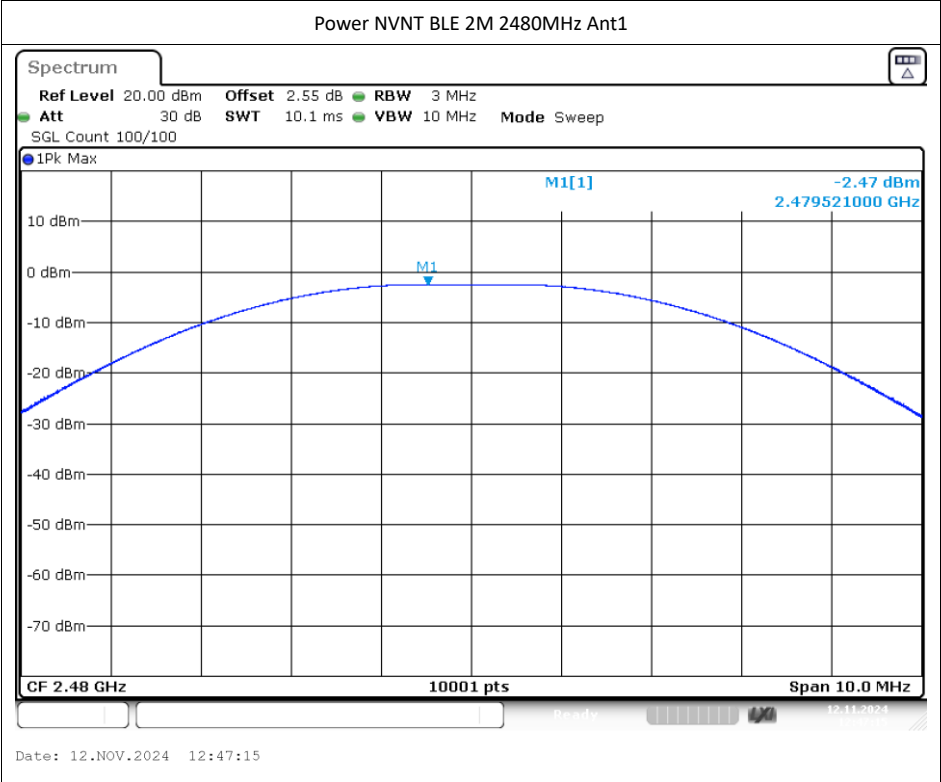
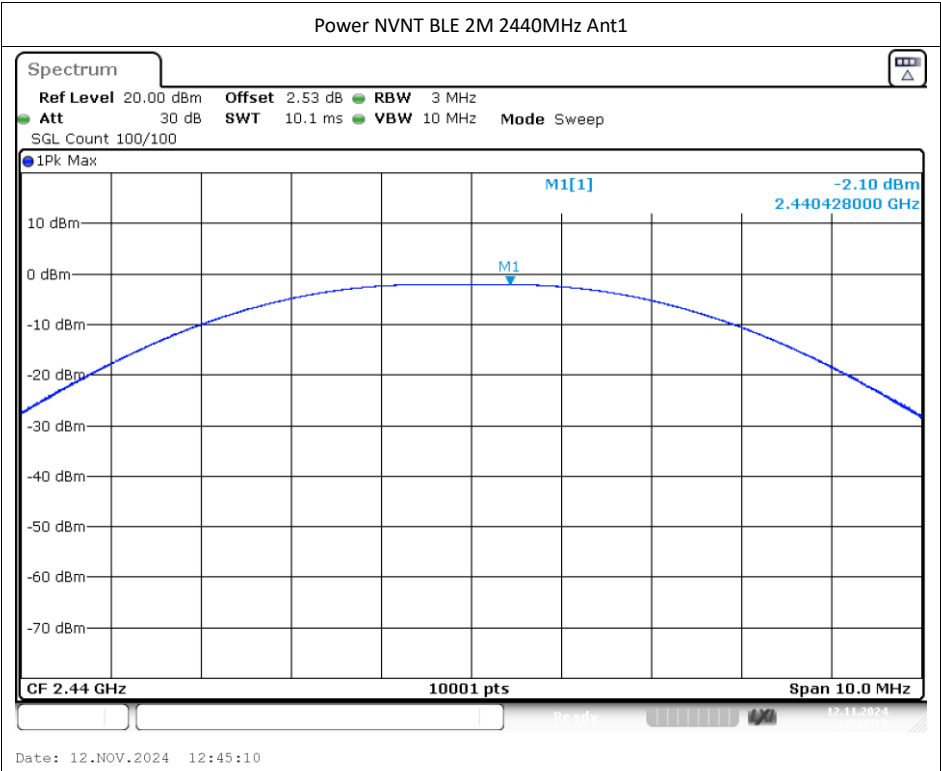
## Maximum Conducted Output Power

| Condition | Mode   | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -2.77                 | 0                | -2.77             | 30          | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -2.08                 | 0                | -2.08             | 30          | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -2.45                 | 0                | -2.45             | 30          | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -2.81                 | 0                | -2.81             | 30          | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -2.1                  | 0                | -2.1              | 30          | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -2.47                 | 0                | -2.47             | 30          | Pass    |

| Condition | Mode   | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Conducted Power (dBm) | Antenna Gain (dBi) | E.i.r.p. (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|------------------|-----------------------|--------------------|----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -2.77                 | 0                | -2.77                 | 2.87               | 0.1            | 36.02       | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -2.08                 | 0                | -2.08                 | 2.87               | 0.79           | 36.02       | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -2.45                 | 0                | -2.45                 | 2.87               | 0.42           | 36.02       | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -2.81                 | 0                | -2.81                 | 2.87               | 0.06           | 36.02       | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -2.1                  | 0                | -2.1                  | 2.87               | 0.77           | 36.02       | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -2.47                 | 0                | -2.47                 | 2.87               | 0.4            | 36.02       | Pass    |





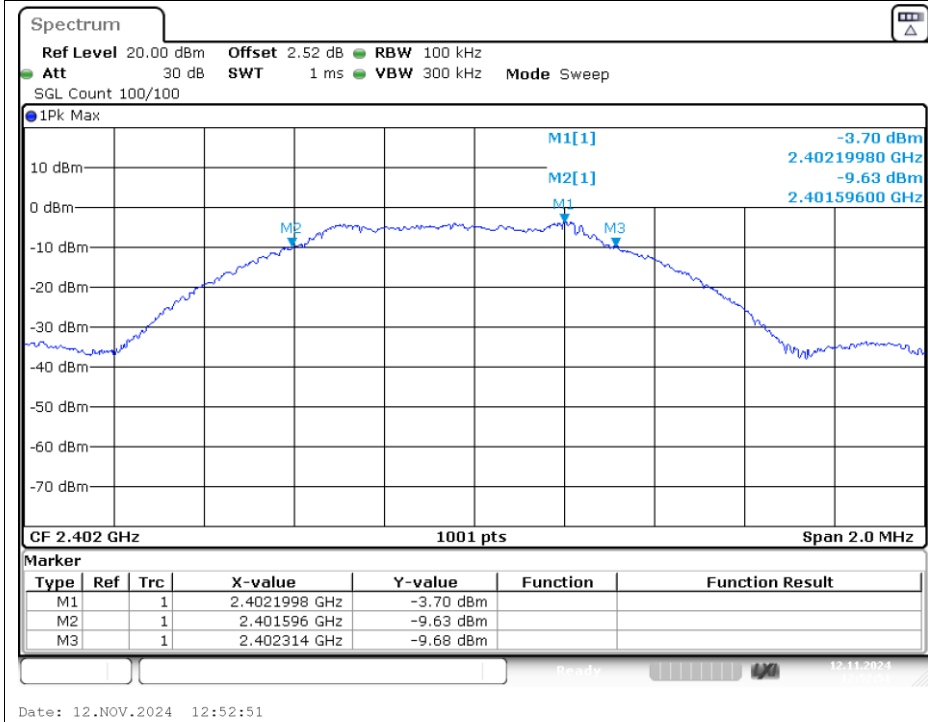


## -6dB Bandwidth

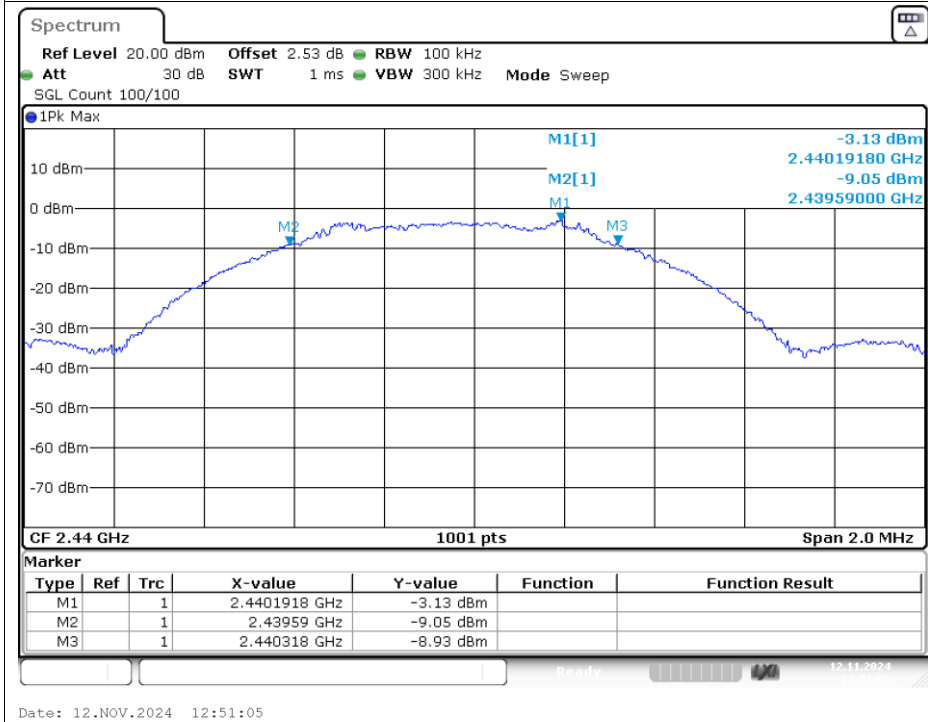
| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.72                  | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.73                  | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.72                  | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.38                  | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 1.39                  | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.39                  | 0.5                         | Pass    |

# Test Graphs

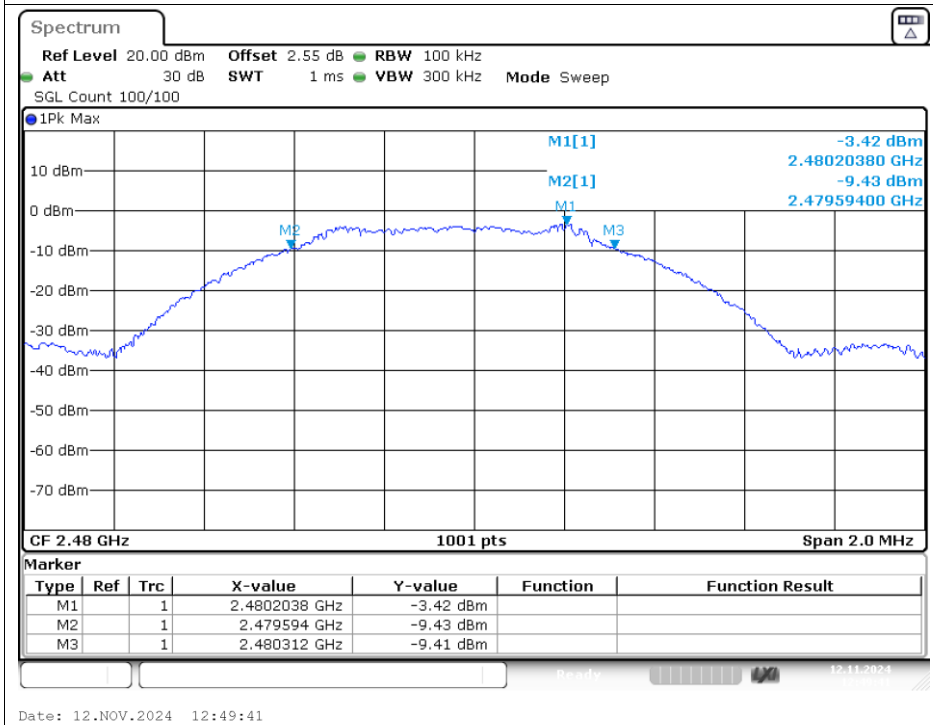
## -6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



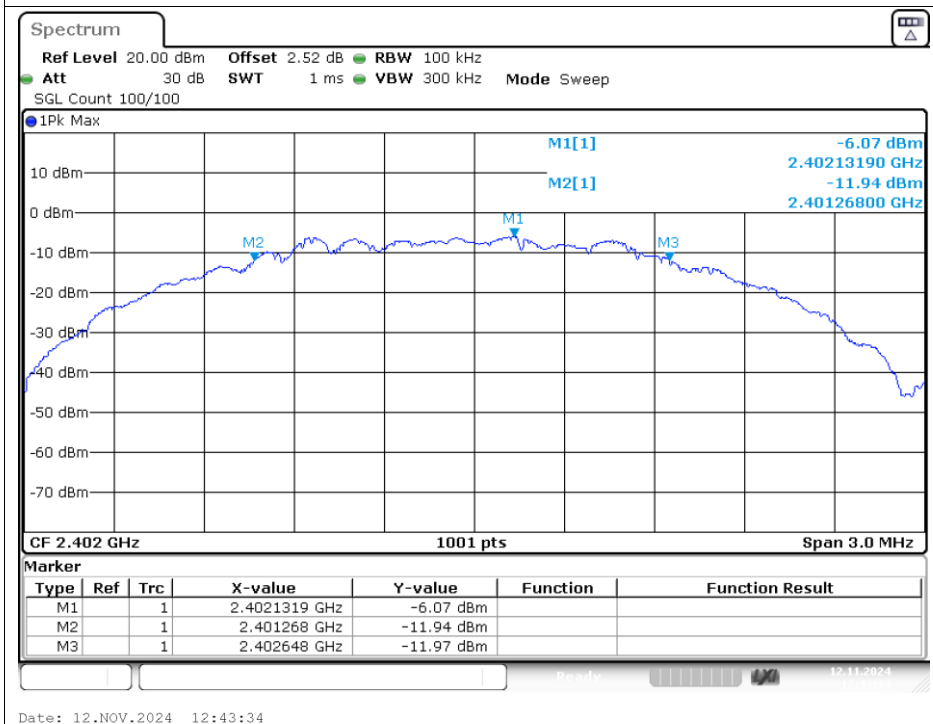
## -6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



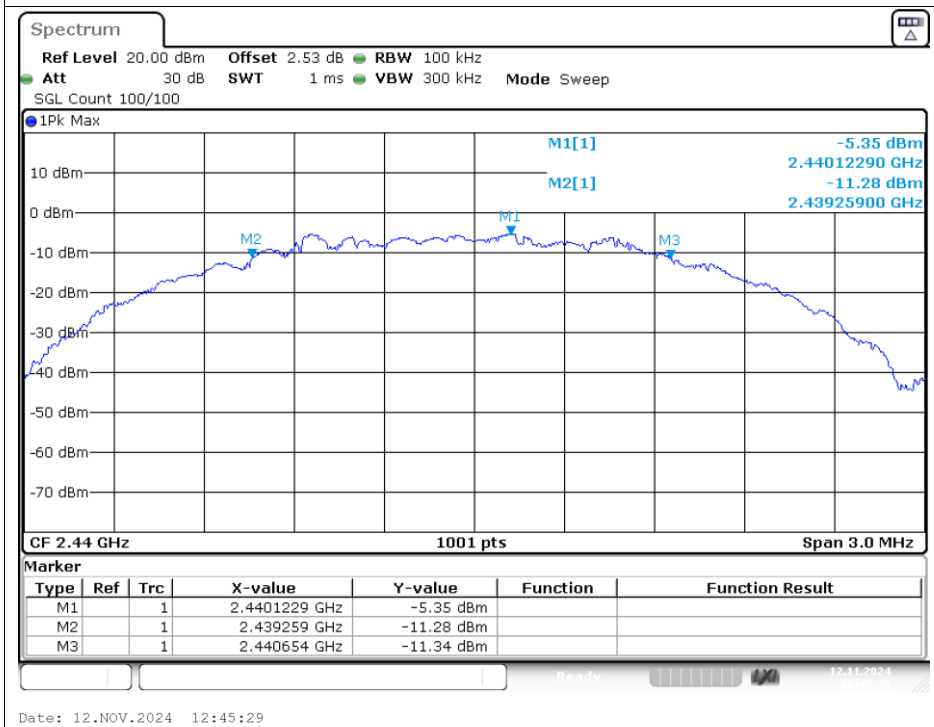
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



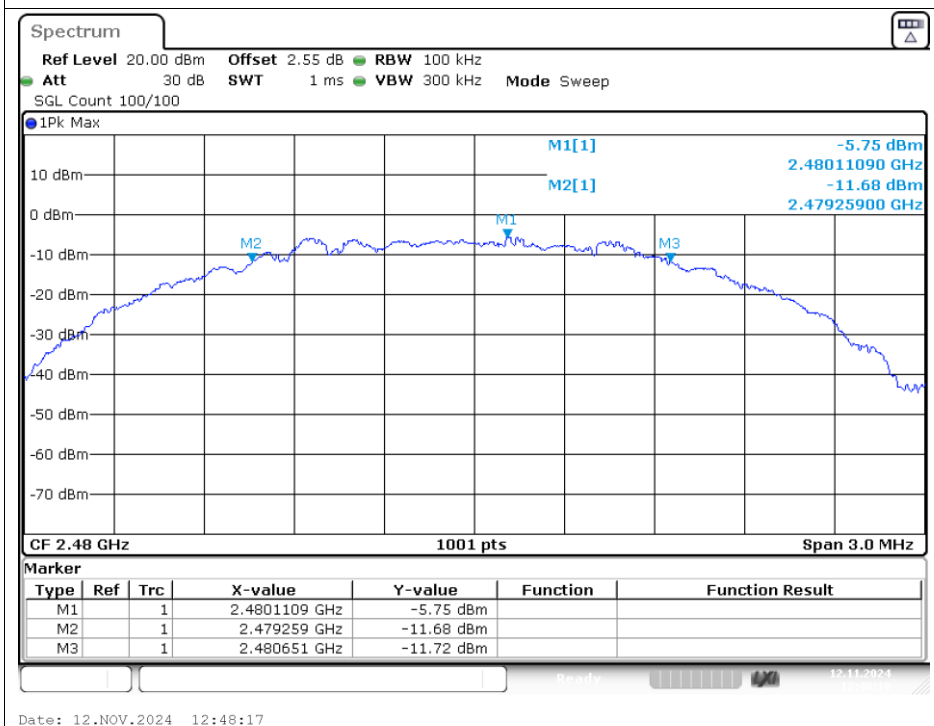
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1

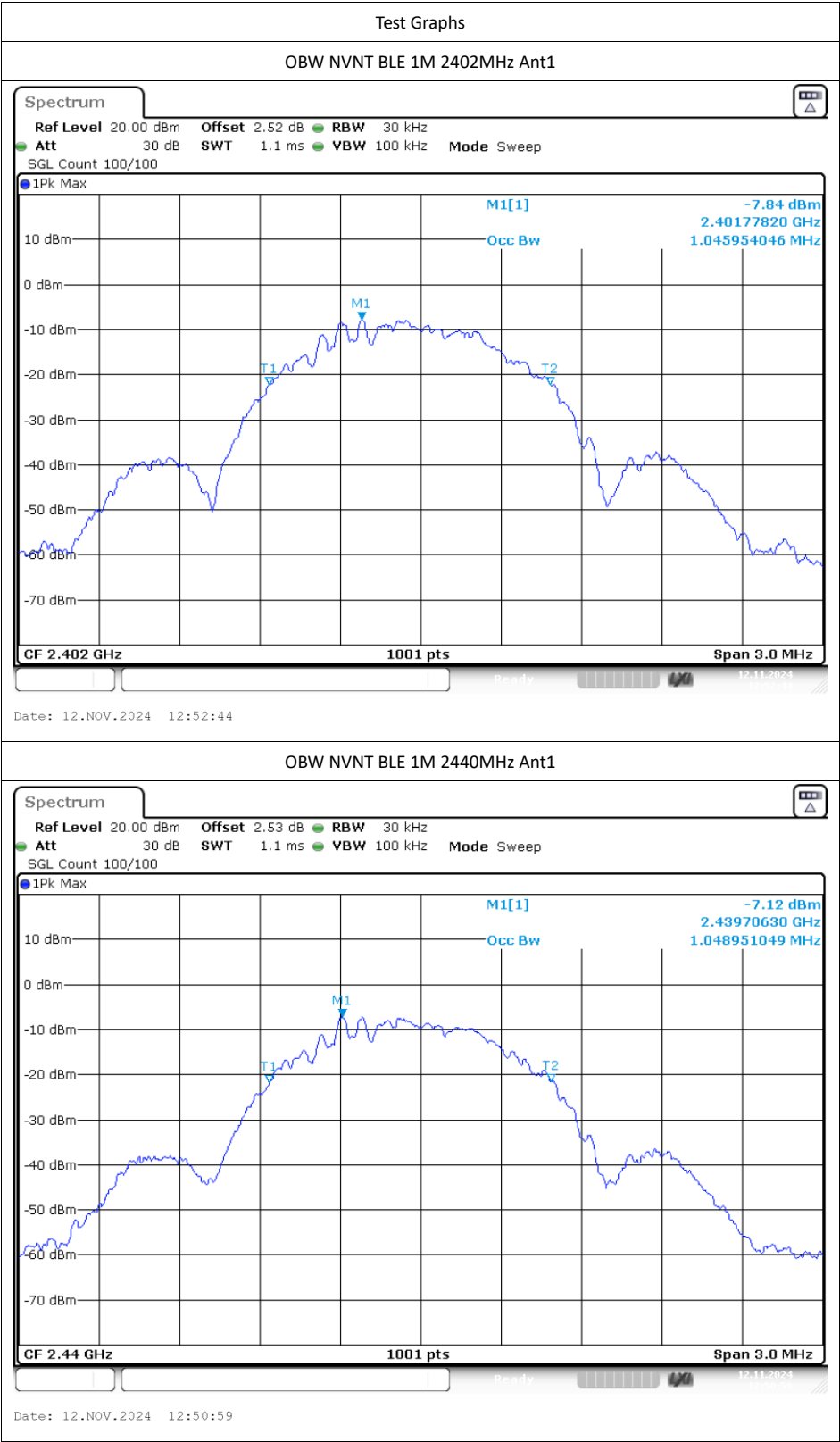


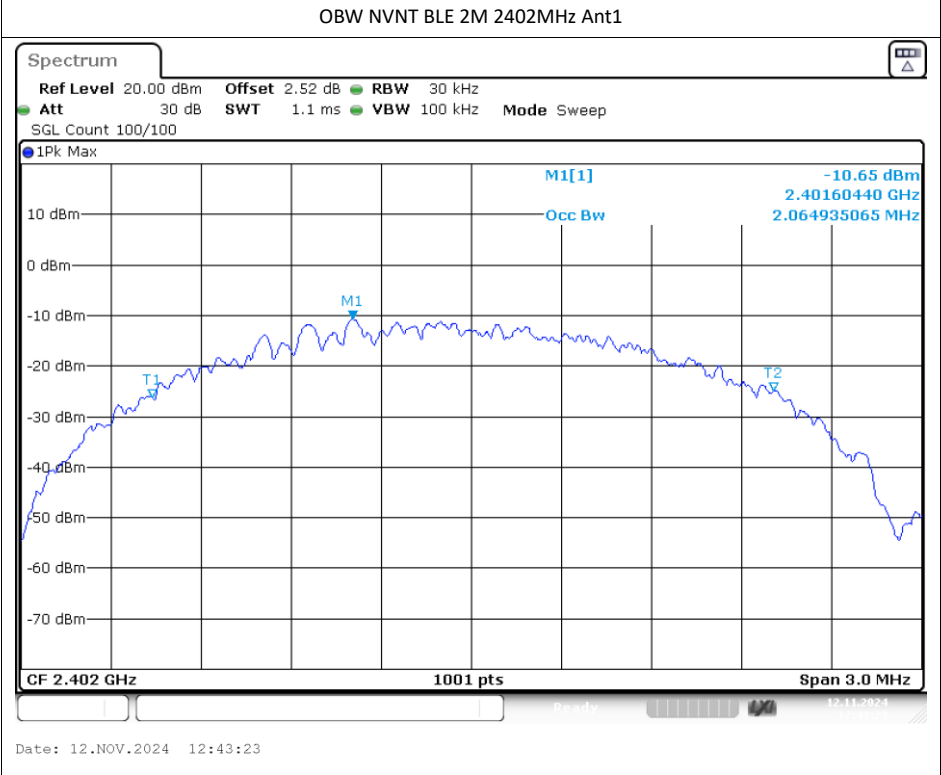
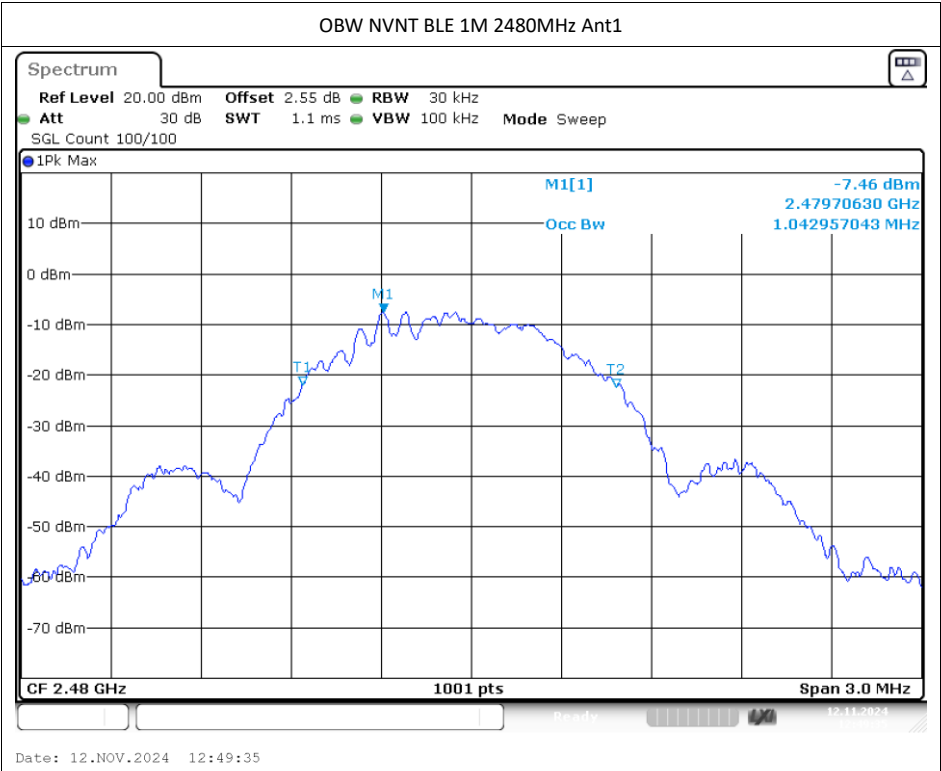
-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

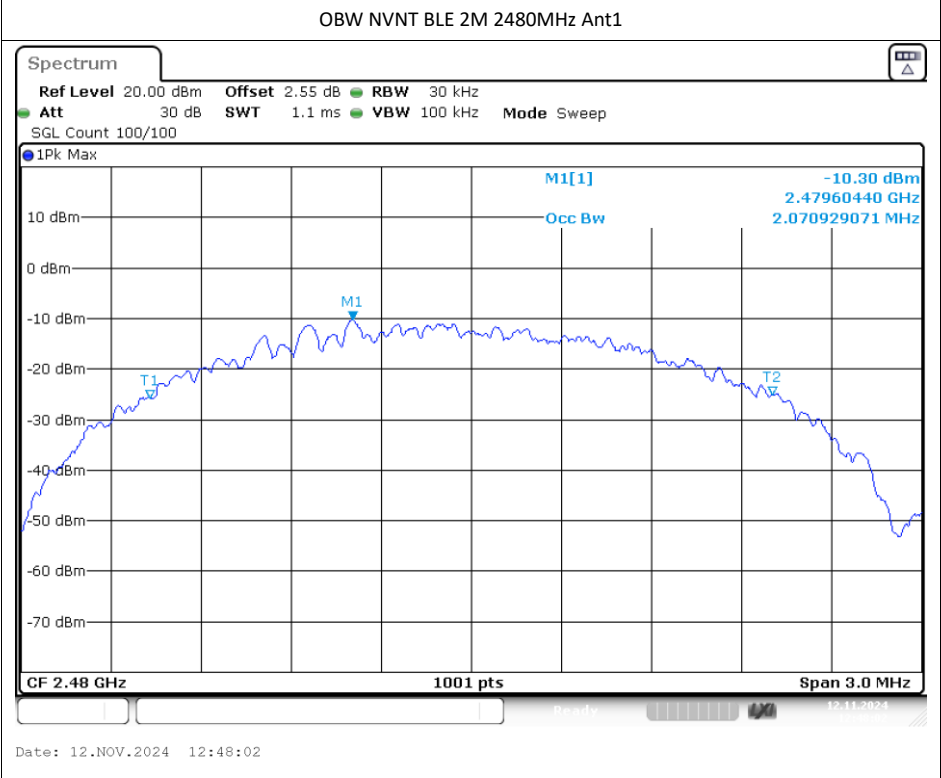
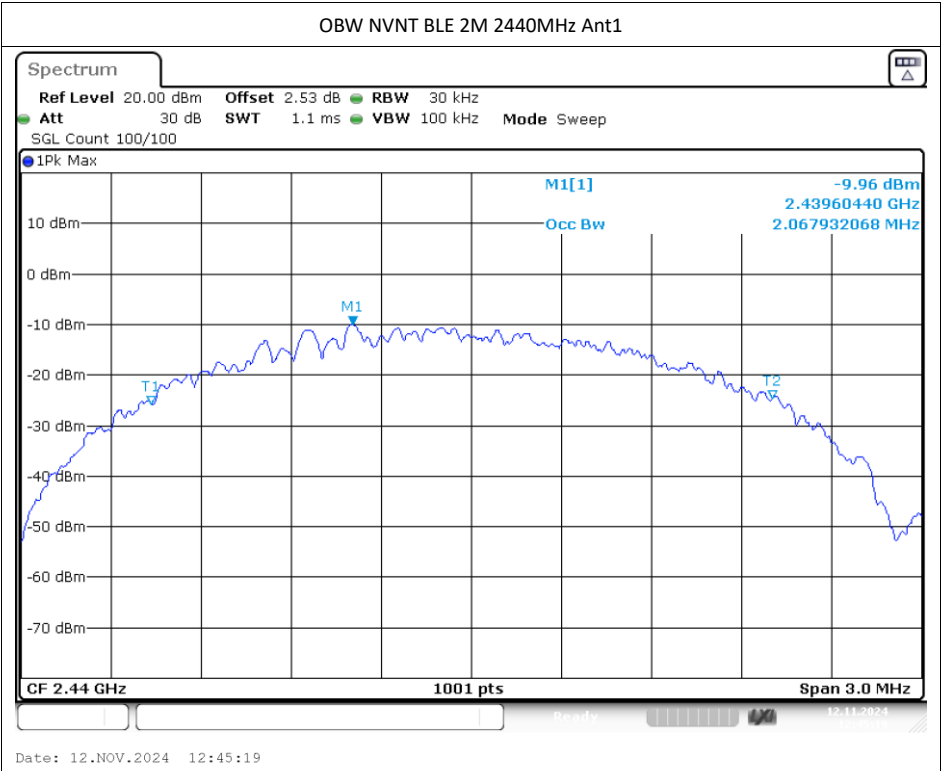


## Occupied Channel Bandwidth

| Condition | Mode   | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT      | BLE 1M | 2402            | Ant1    | 1.046         |
| NVNT      | BLE 1M | 2440            | Ant1    | 1.049         |
| NVNT      | BLE 1M | 2480            | Ant1    | 1.043         |
| NVNT      | BLE 2M | 2402            | Ant1    | 2.065         |
| NVNT      | BLE 2M | 2440            | Ant1    | 2.068         |
| NVNT      | BLE 2M | 2480            | Ant1    | 2.071         |

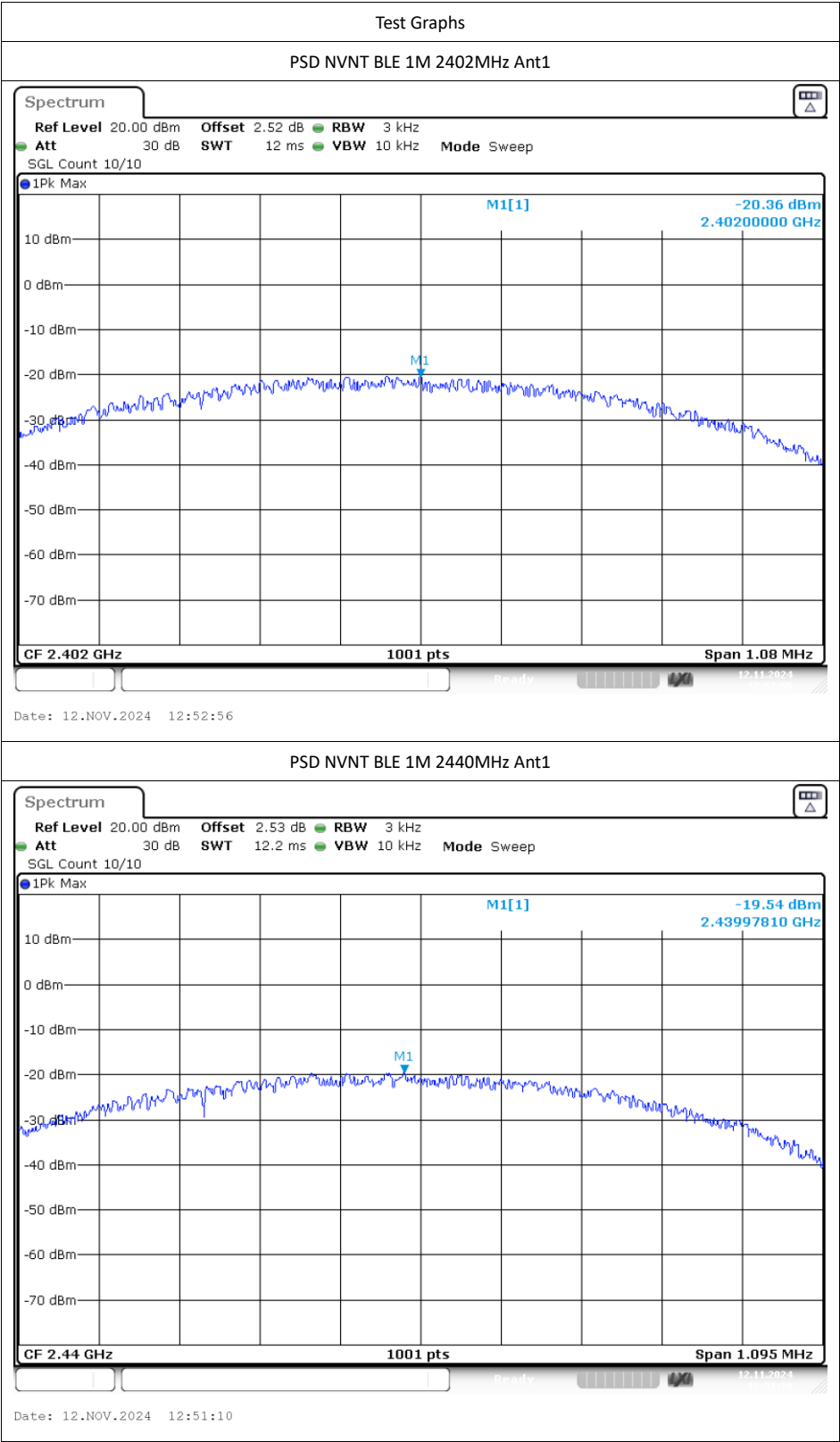


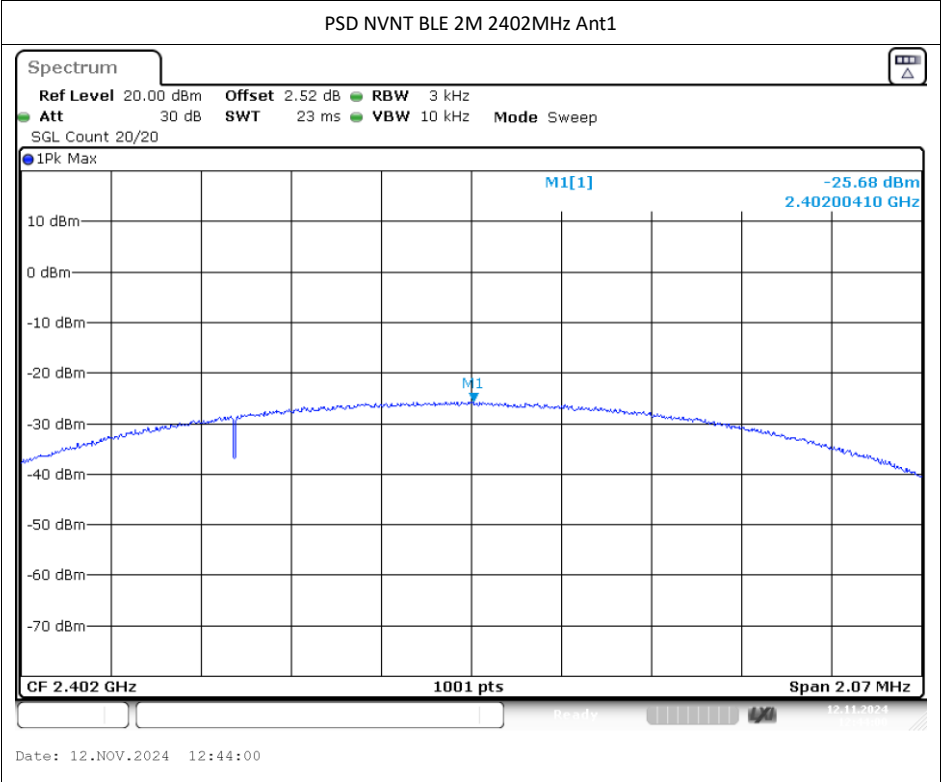
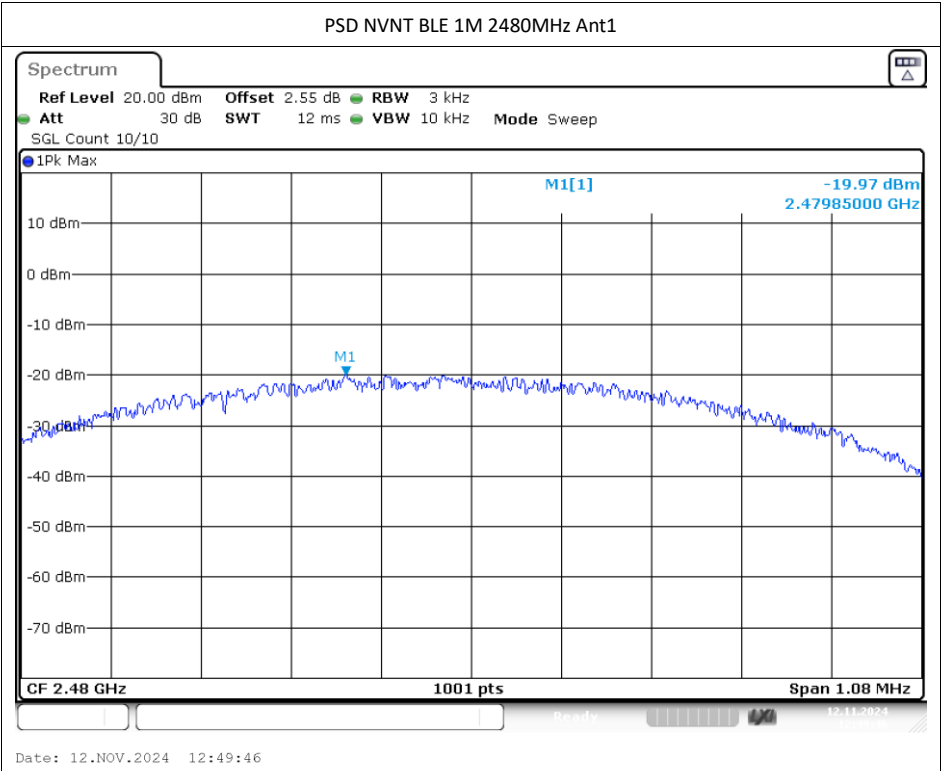


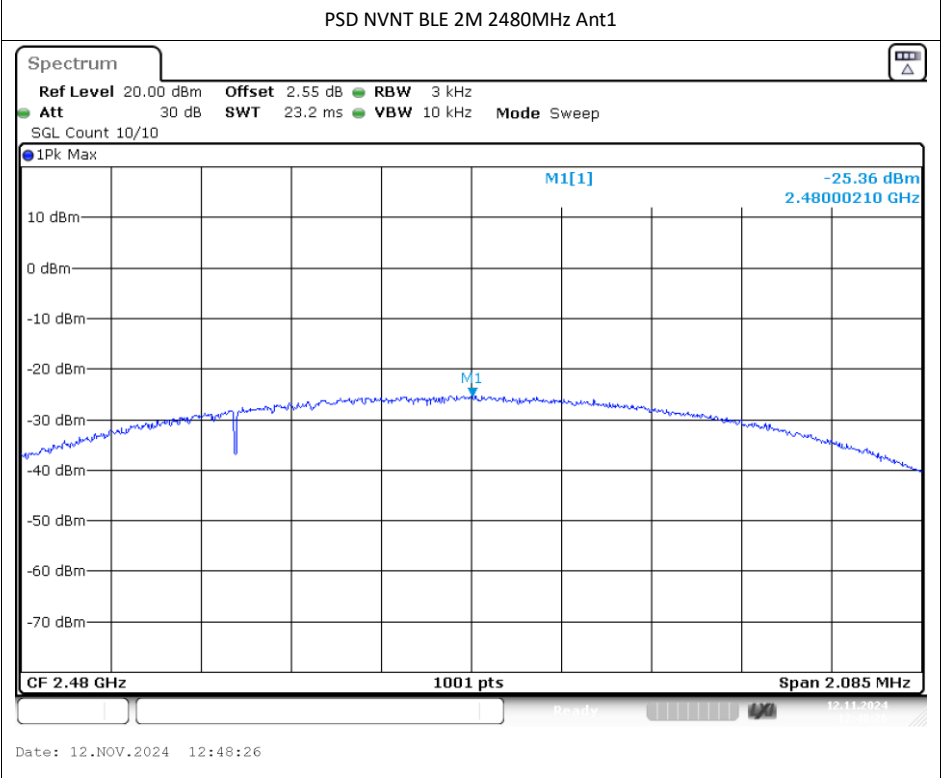
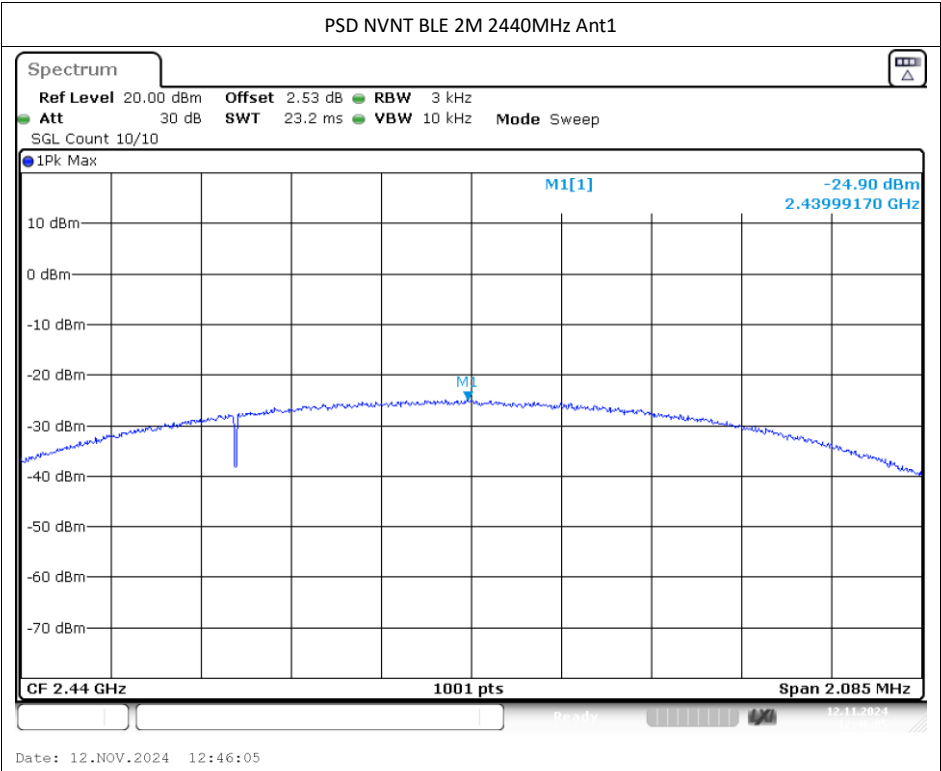


## Maximum Power Spectral Density Level

| Condition | Mode   | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Duty Factor (dB) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|--------|-----------------|---------|--------------------------|------------------|----------------------|------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -20.36                   | 0                | -20.36               | 8                | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -19.54                   | 0                | -19.54               | 8                | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -19.97                   | 0                | -19.97               | 8                | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -25.68                   | 0                | -25.68               | 8                | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -24.9                    | 0                | -24.9                | 8                | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -25.36                   | 0                | -25.36               | 8                | Pass    |

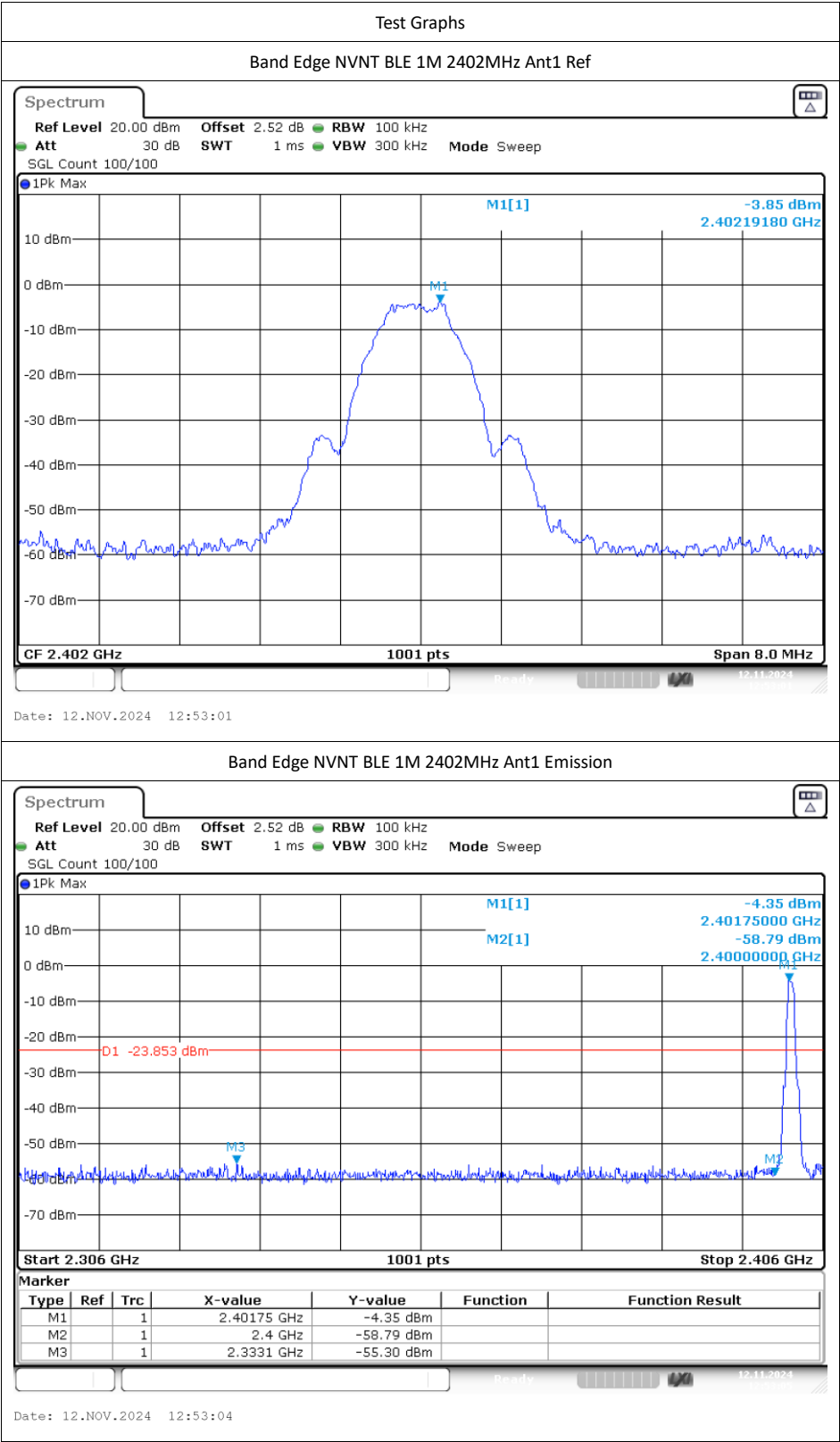


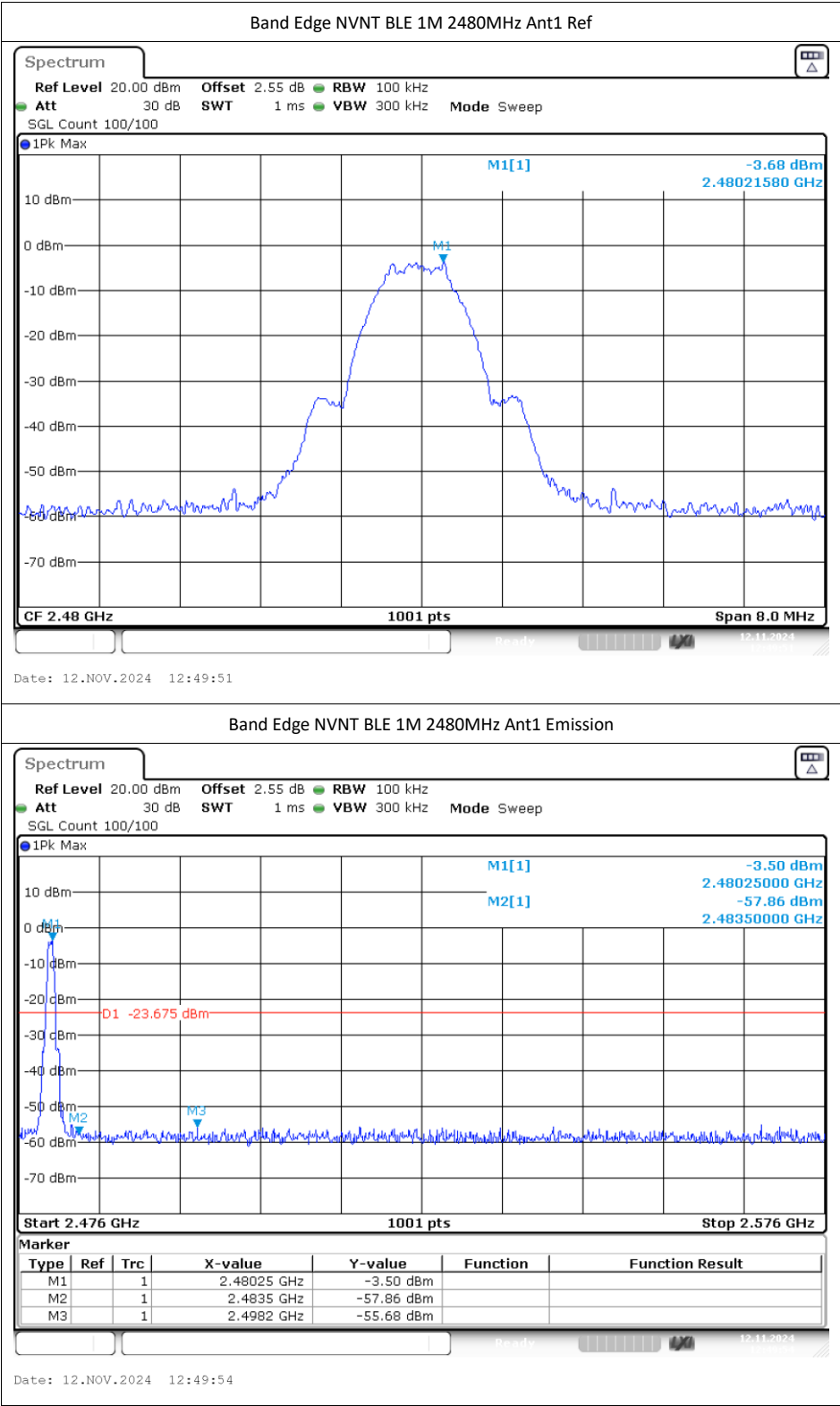




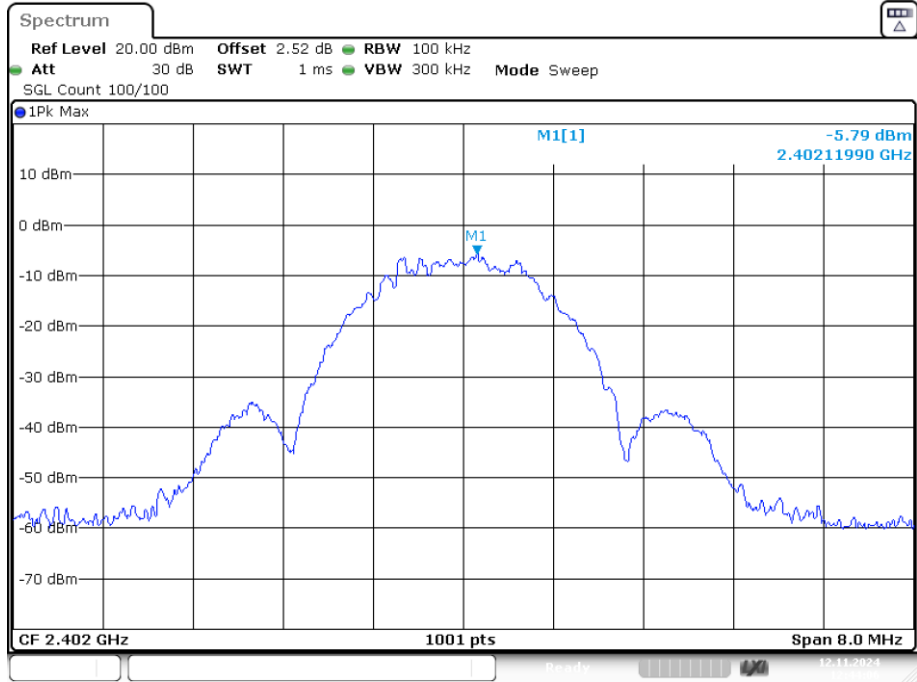
## Band Edge

| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -51.45          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -52             | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -31.32          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -50.05          | -20         | Pass    |

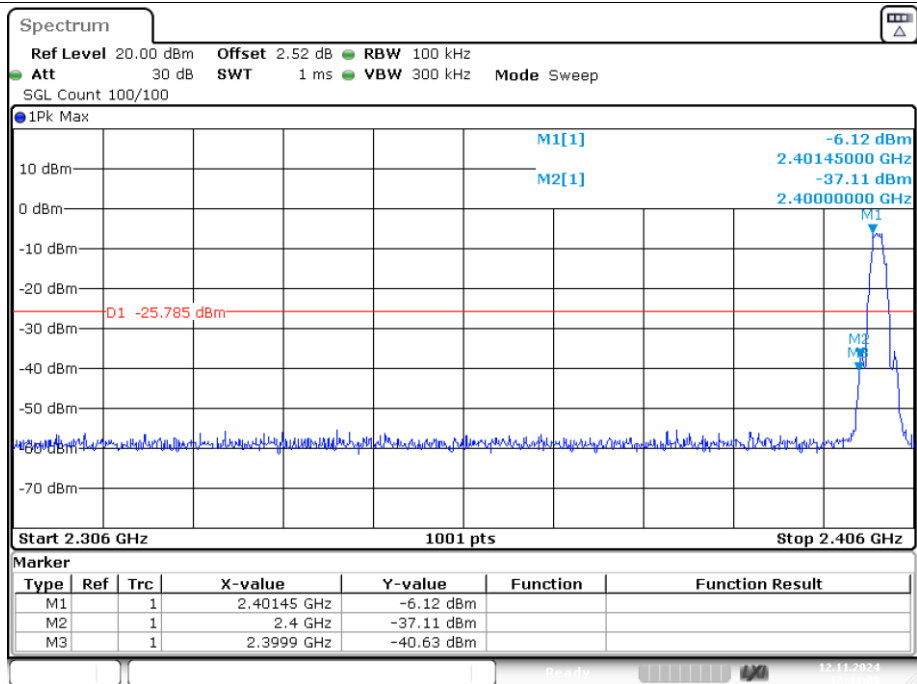


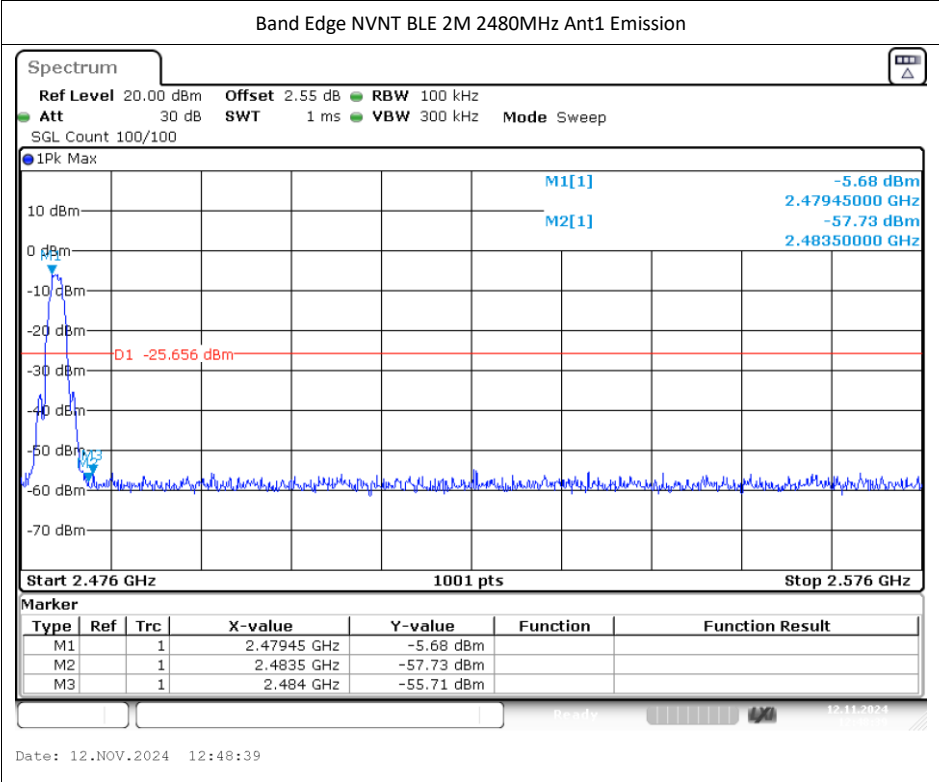
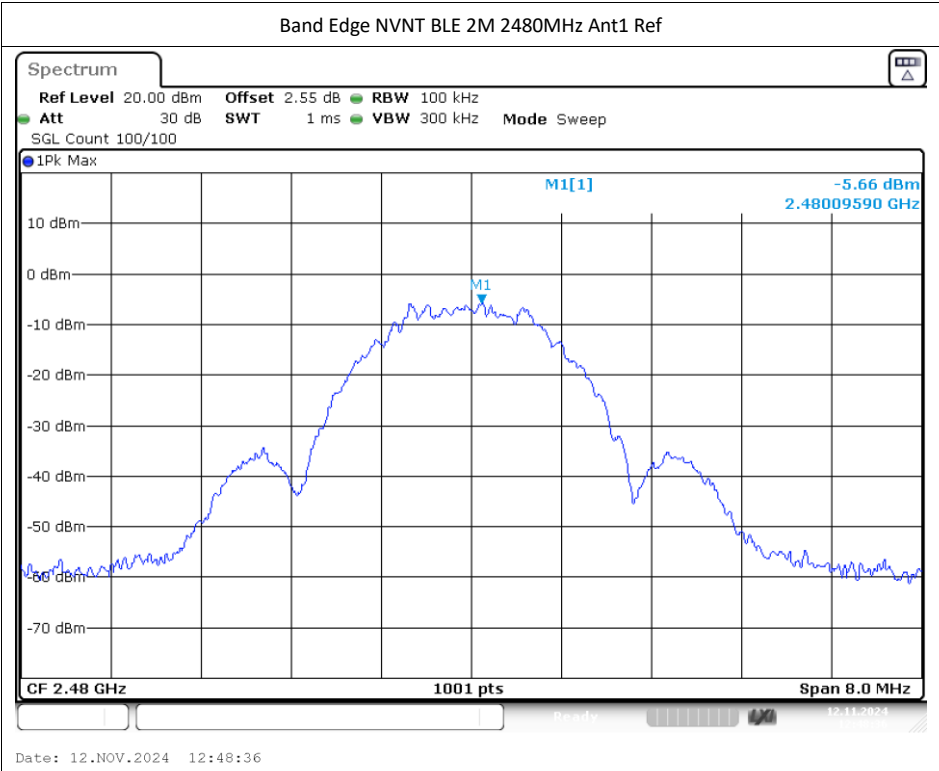


# Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



# Band Edge NVNT BLE 2M 2402MHz Ant1 Emission





## Conducted RF Spurious Emission

| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -45.24          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -46.33          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -45.49          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -43.35          | -20         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -44.46          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -43.59          | -20         | Pass    |

