



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: Kids Smartwatch

Test Model: Kidzi

Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.5° C   |
| Relative Humidity: | 52.2%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Taylor Hu |
| Supervised by:     | Ling Zhu  |

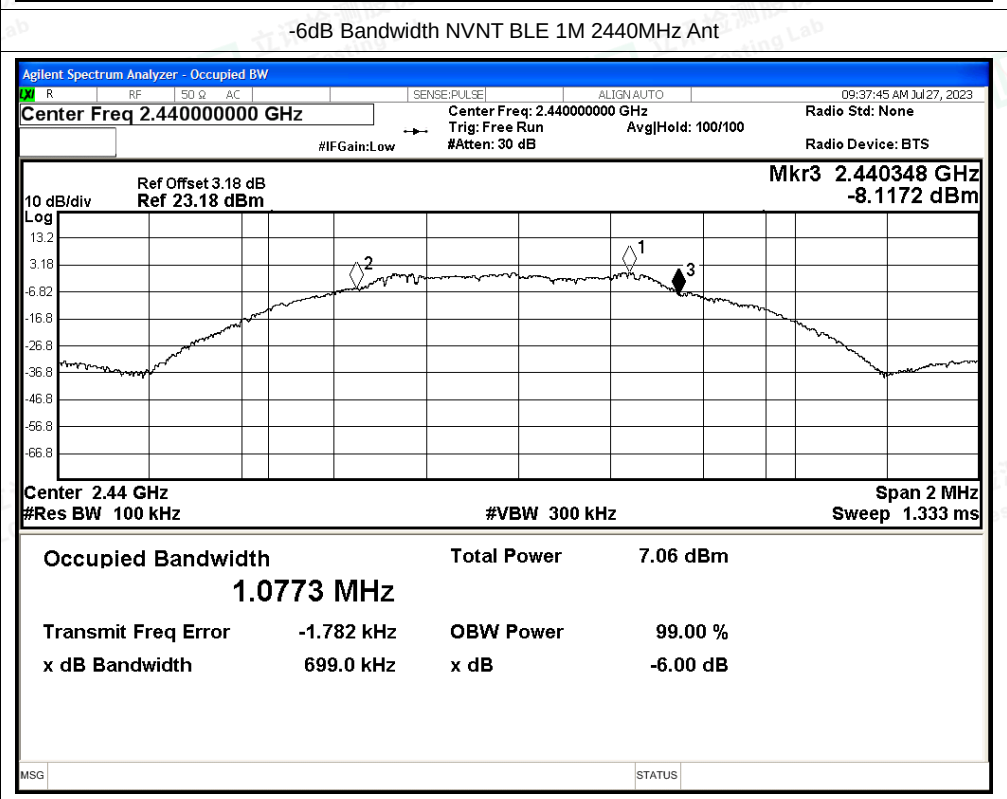
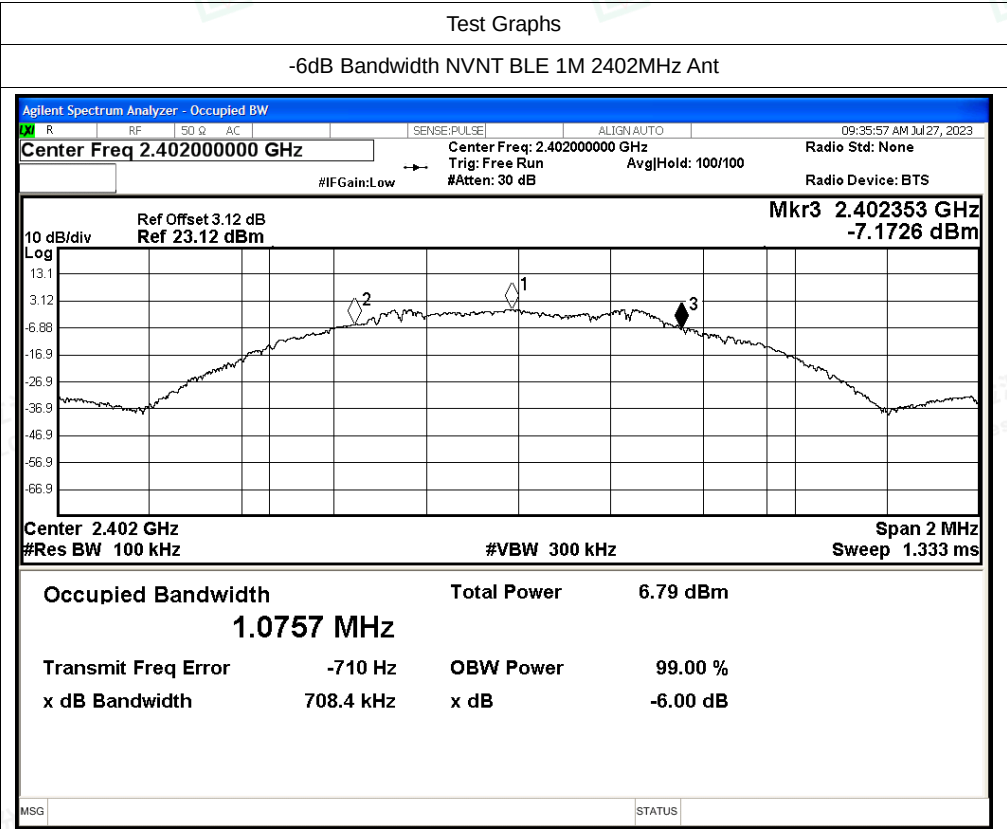


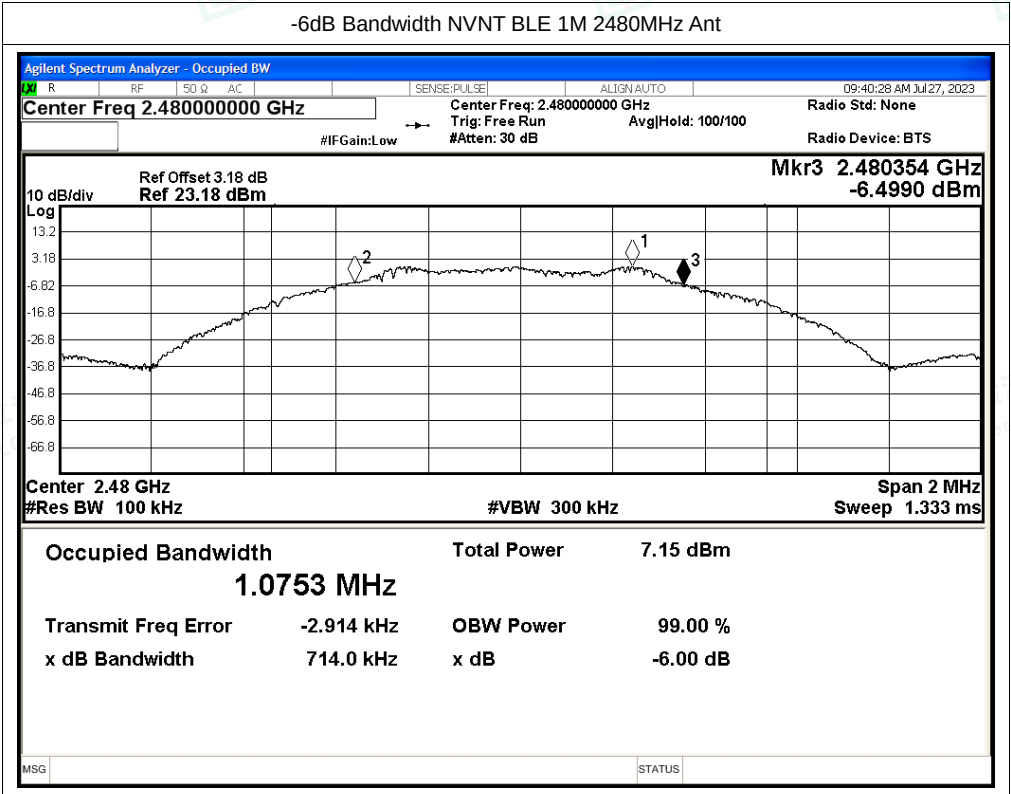


B.1 -6dB Bandwidth

| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant     | 0.708                 | >=0.5                       | Pass    |
| NVNT      | BLE 1M | 2440            | Ant     | 0.699                 | >=0.5                       | Pass    |
| NVNT      | BLE 1M | 2480            | Ant     | 0.714                 | >=0.5                       | Pass    |





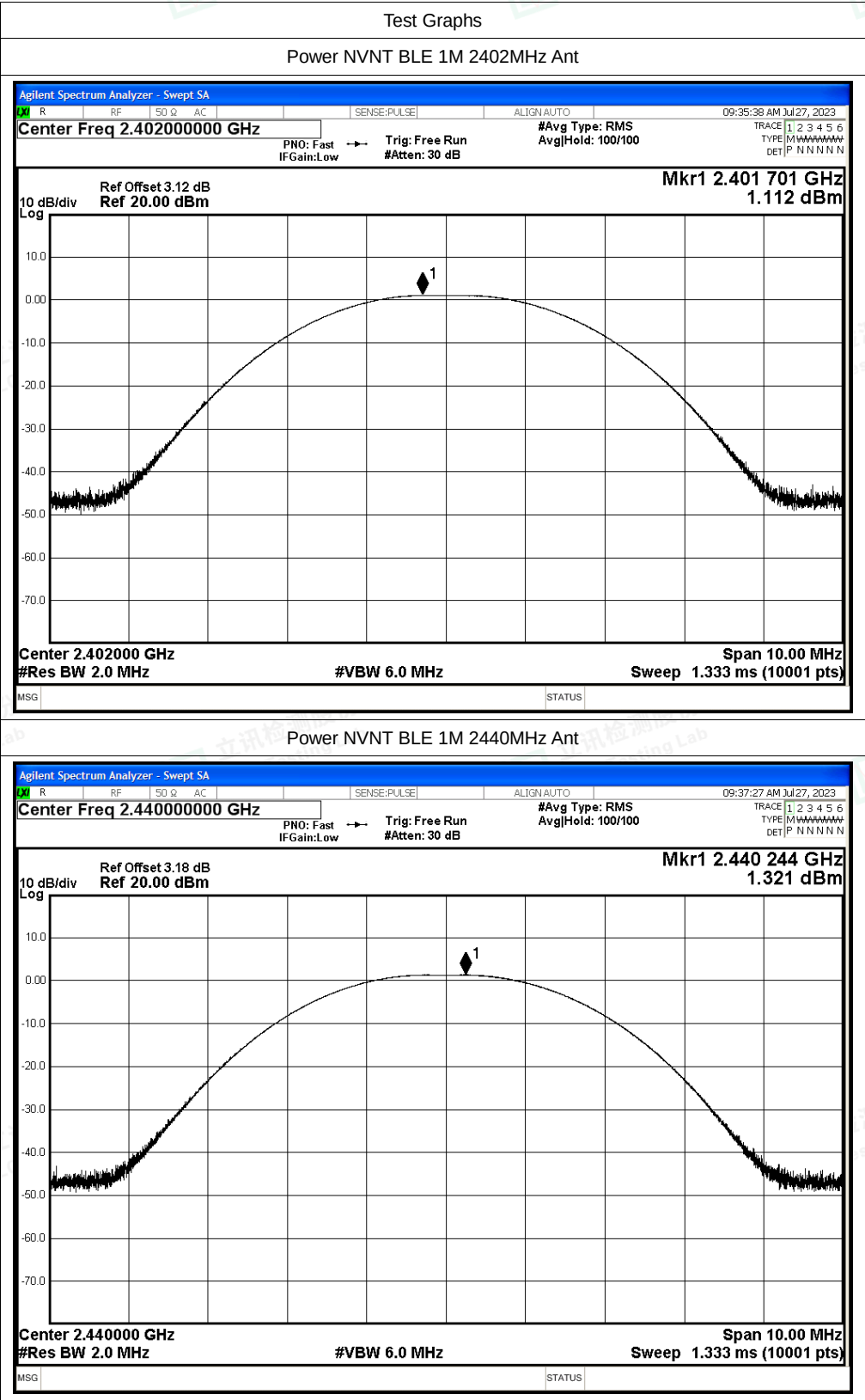


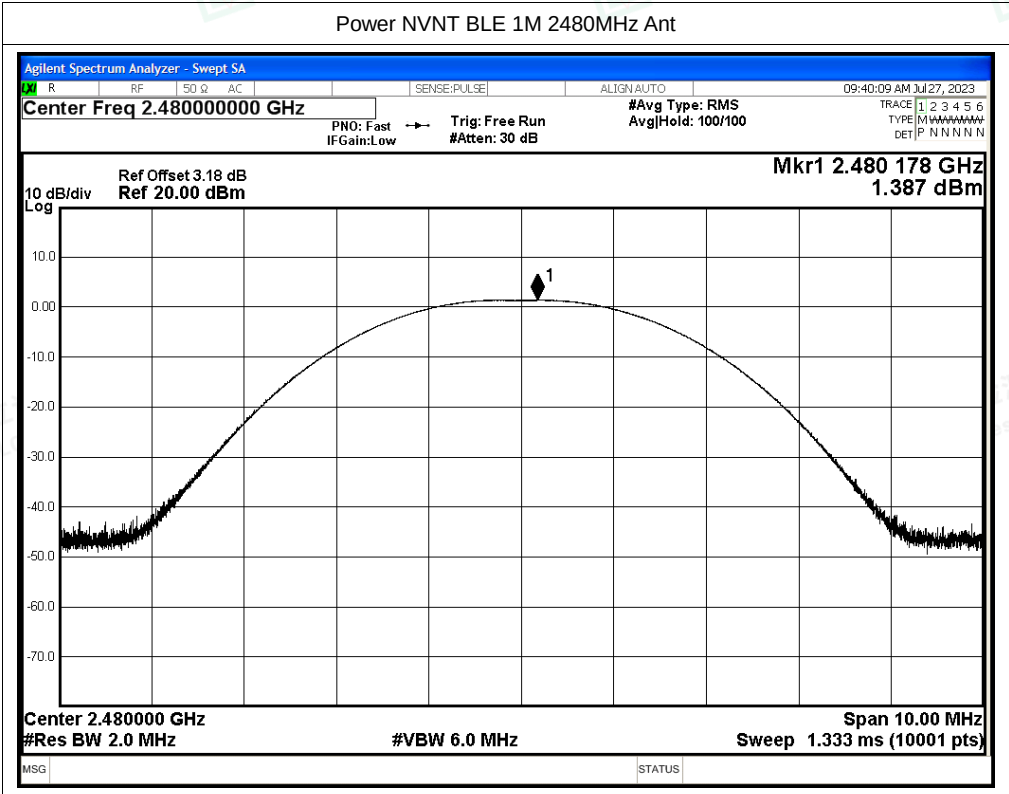


B.2 Maximum Conducted Output Power

| Condition | Mode   | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-------------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant     | 1.11              | 30          | Pass    |
| NVNT      | BLE 1M | 2440            | Ant     | 1.32              | 30          | Pass    |
| NVNT      | BLE 1M | 2480            | Ant     | 1.39              | 30          | Pass    |







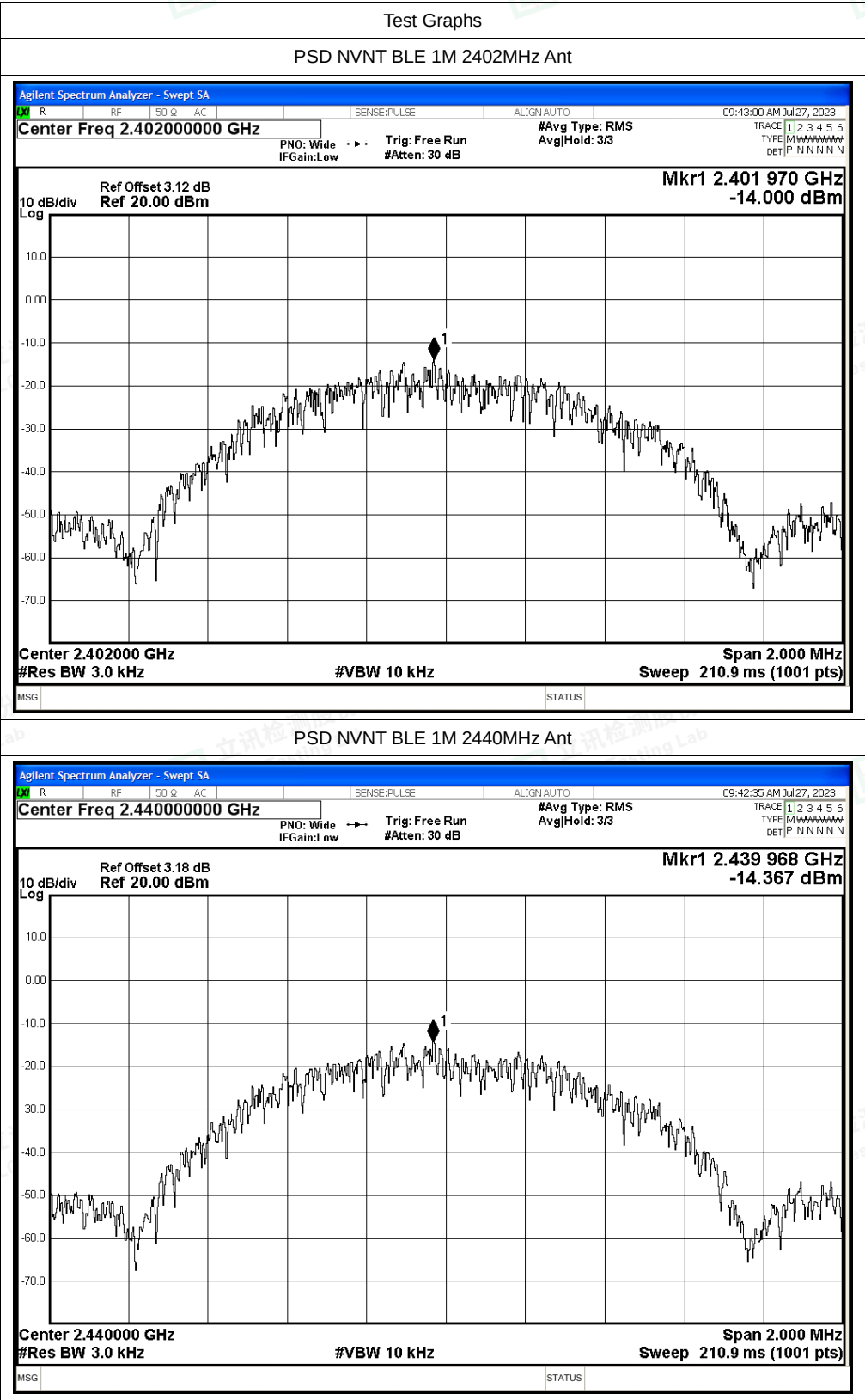


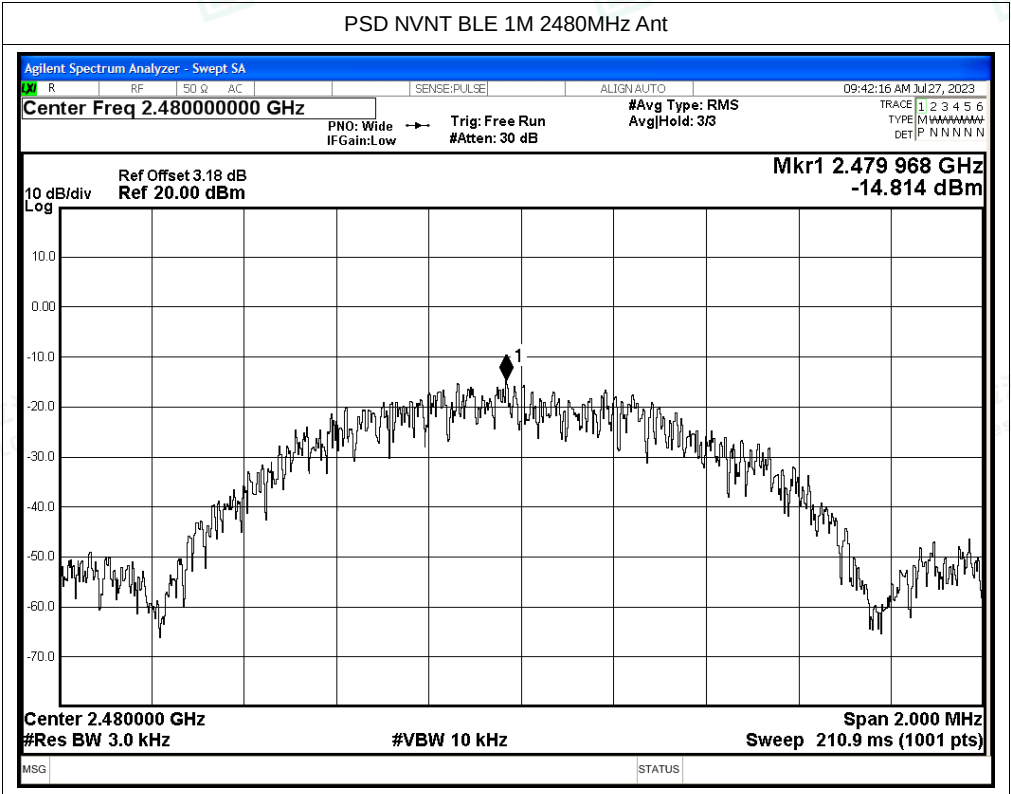
### B.3 Maximum Power Spectral Density Level

| Condition | Mode   | Frequency (MHz) | Antenna | Total PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|-----------|--------|-----------------|---------|-------------------------|---------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant     | -14                     | 8                   | Pass    |
| NVNT      | BLE 1M | 2440            | Ant     | -14.37                  | 8                   | Pass    |
| NVNT      | BLE 1M | 2480            | Ant     | -14.81                  | 8                   | Pass    |







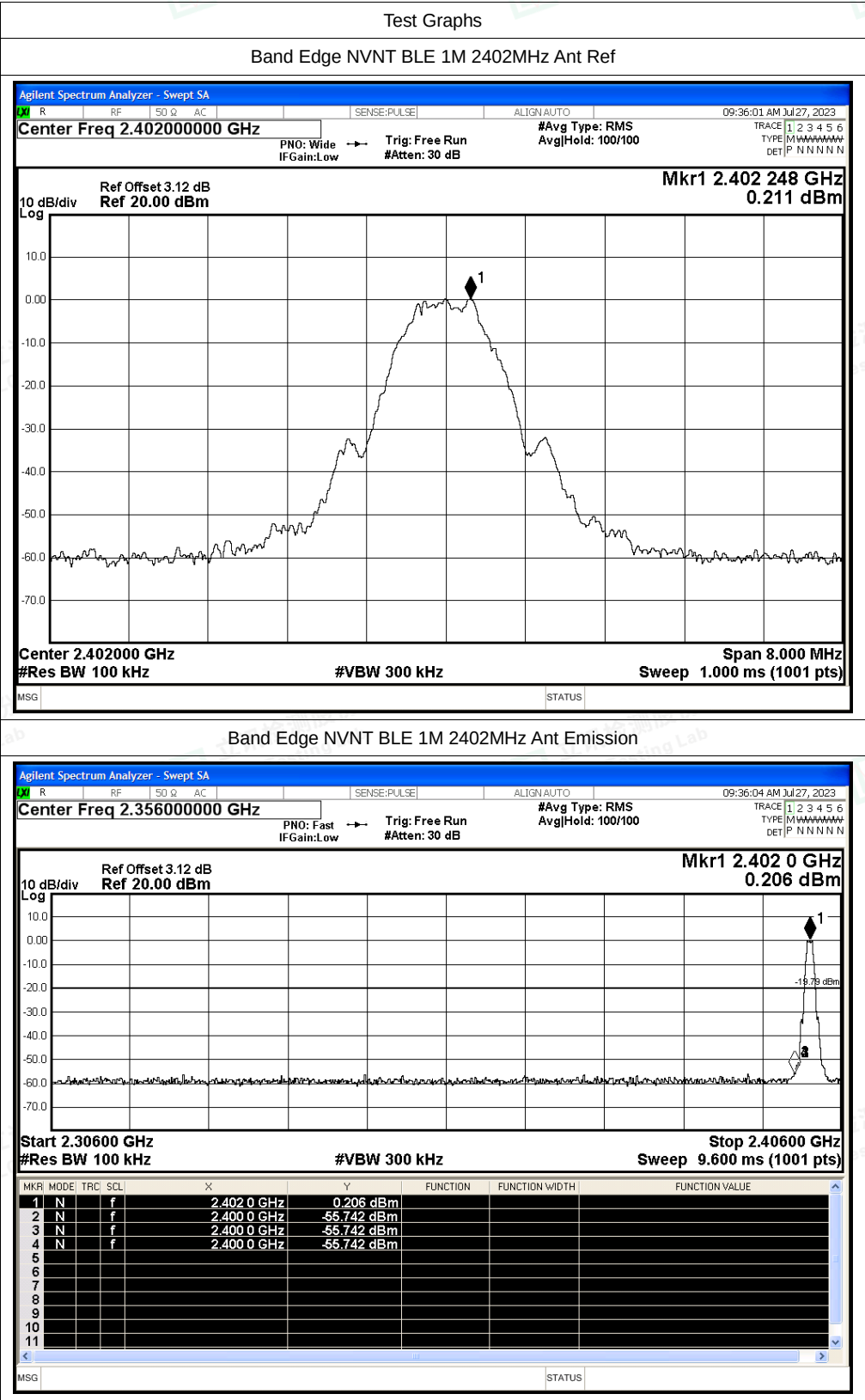


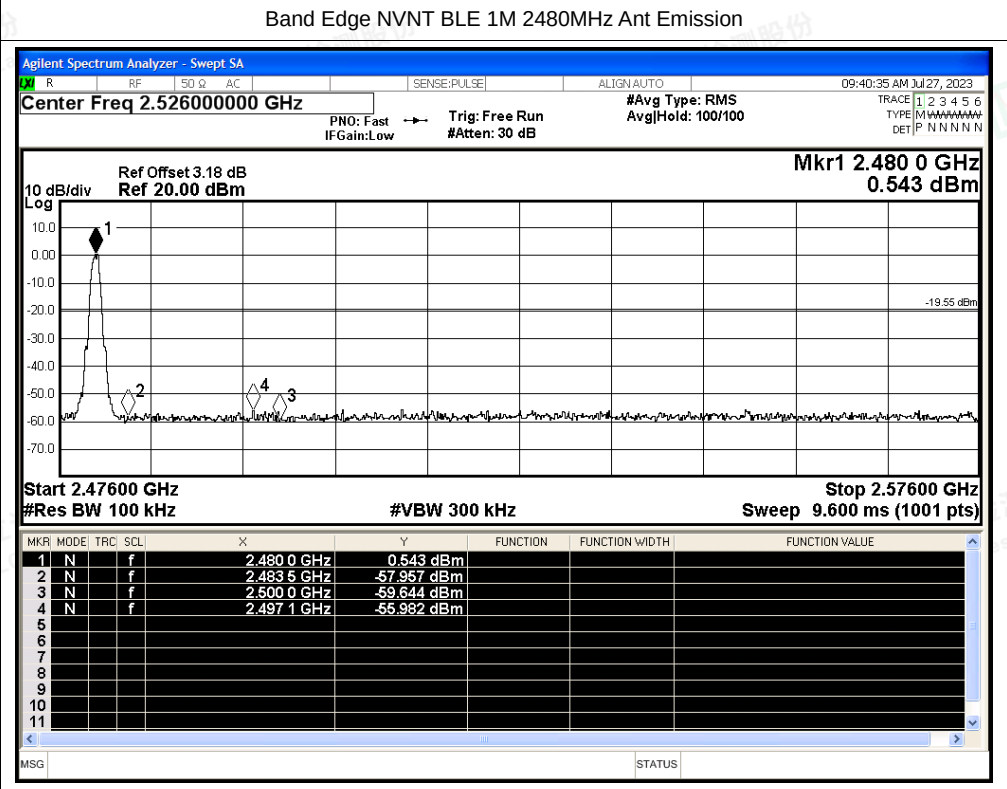
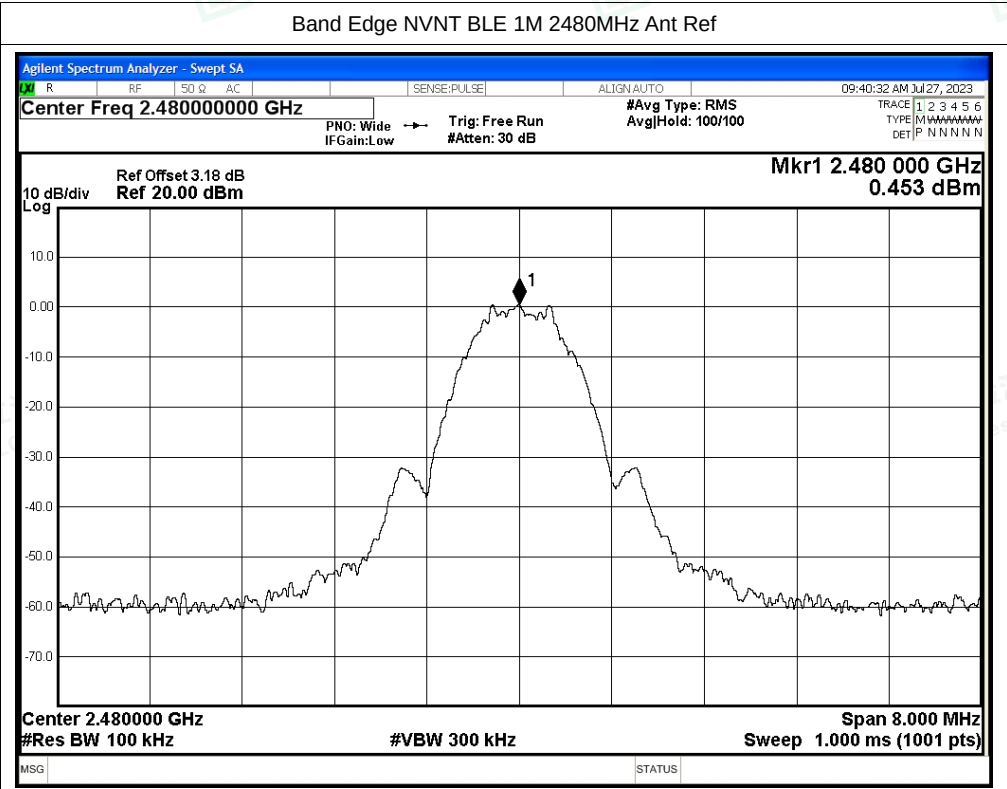


### B.4 Band Edge

| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant     | -55.95          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant     | -56.44          | -20         | Pass    |





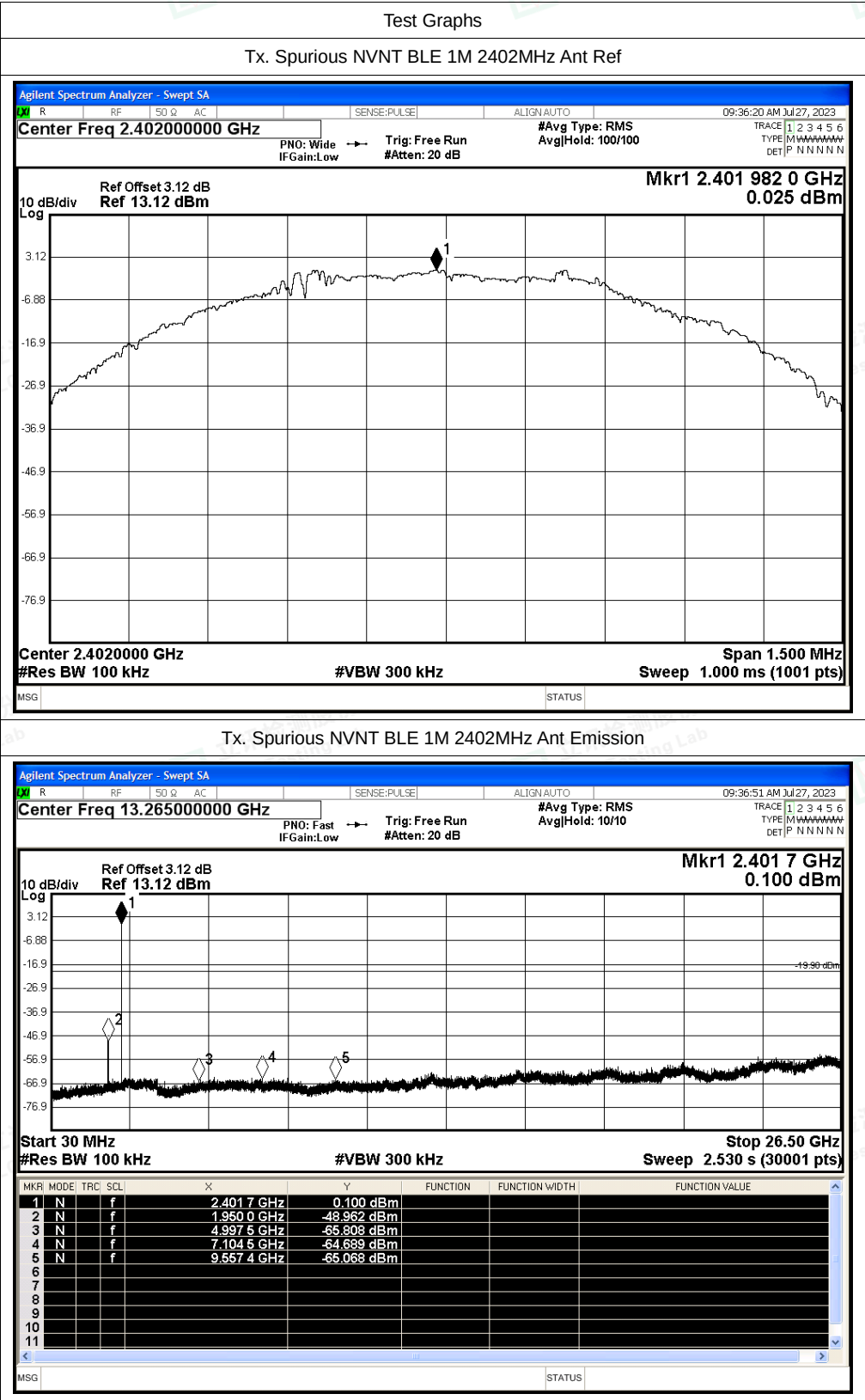


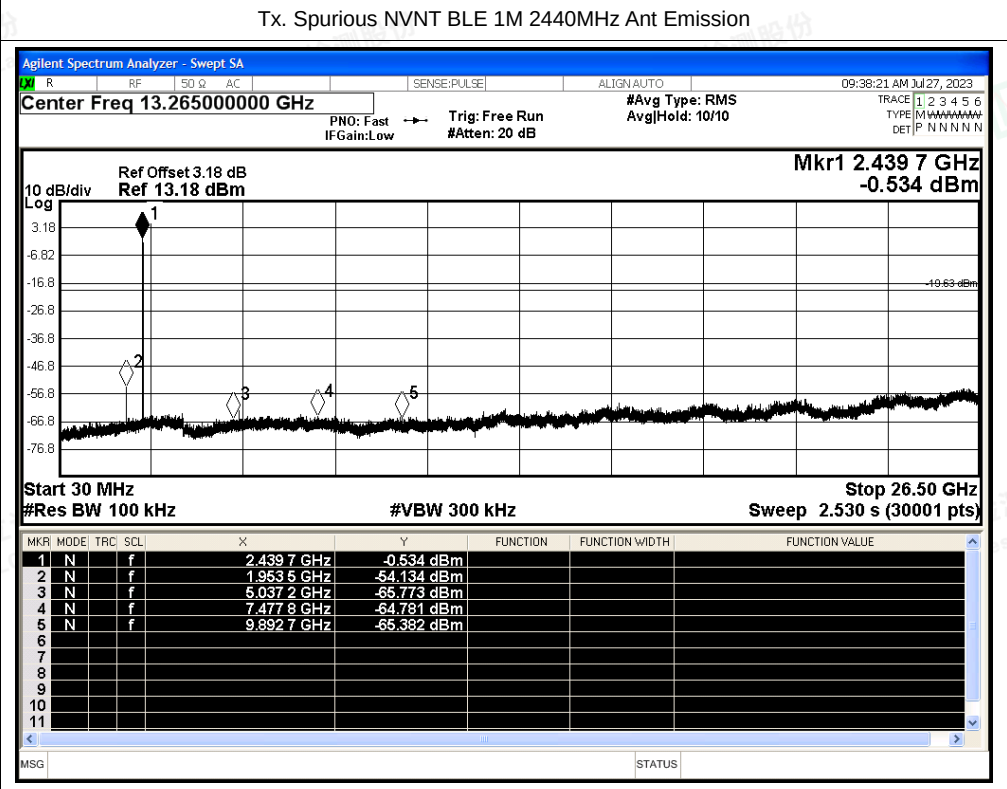
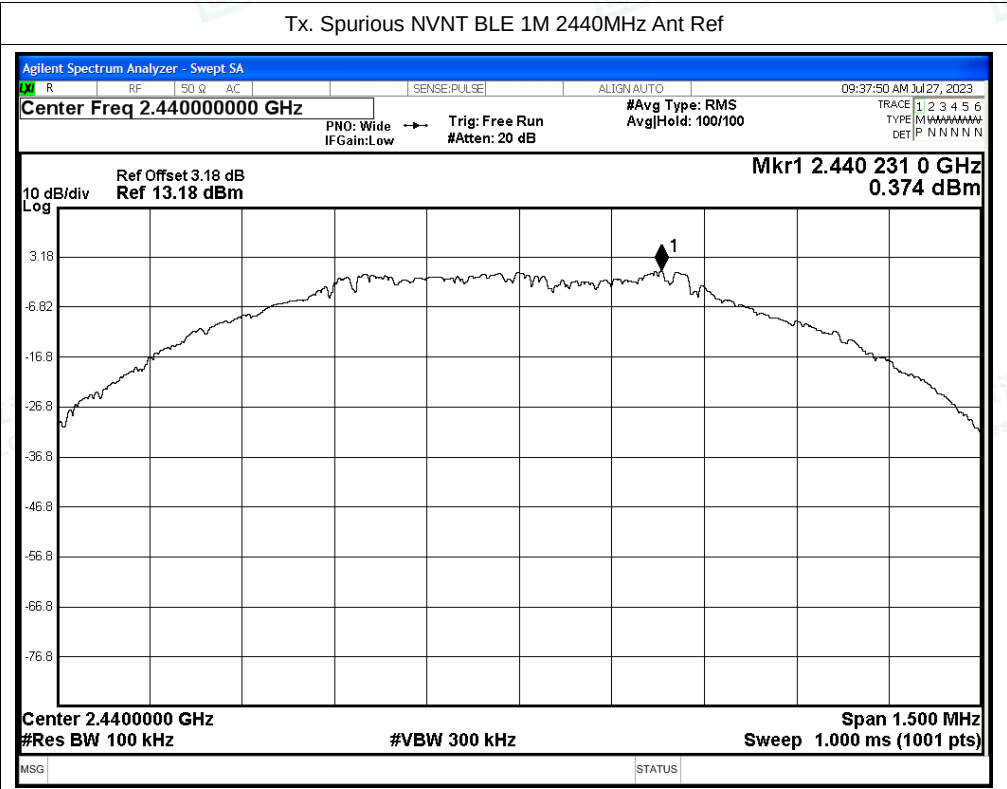


B.5 Conducted RF Spurious Emission

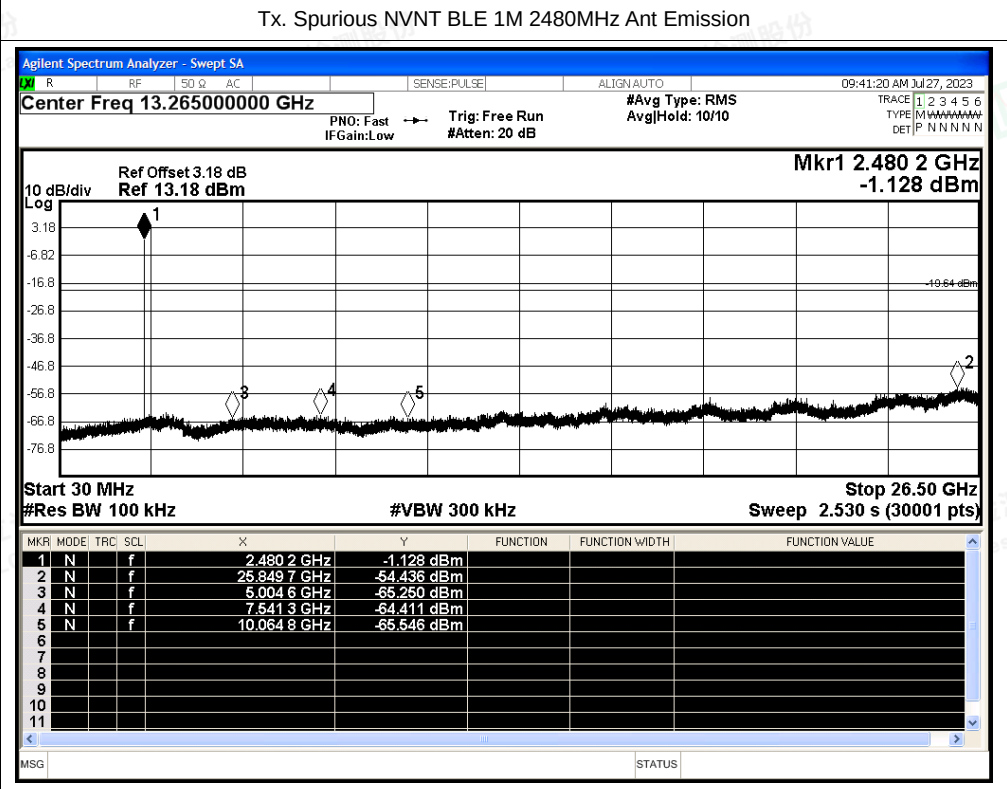
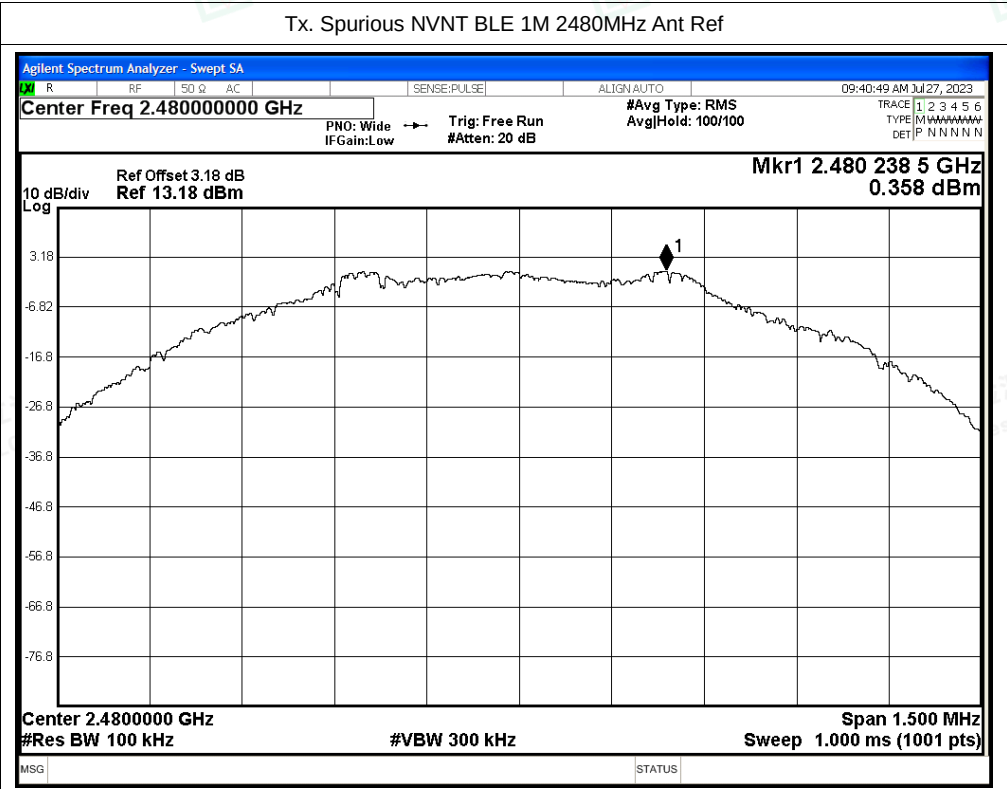
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant     | -48.99          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant     | -54.51          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant     | -54.79          | -20         | Pass    |









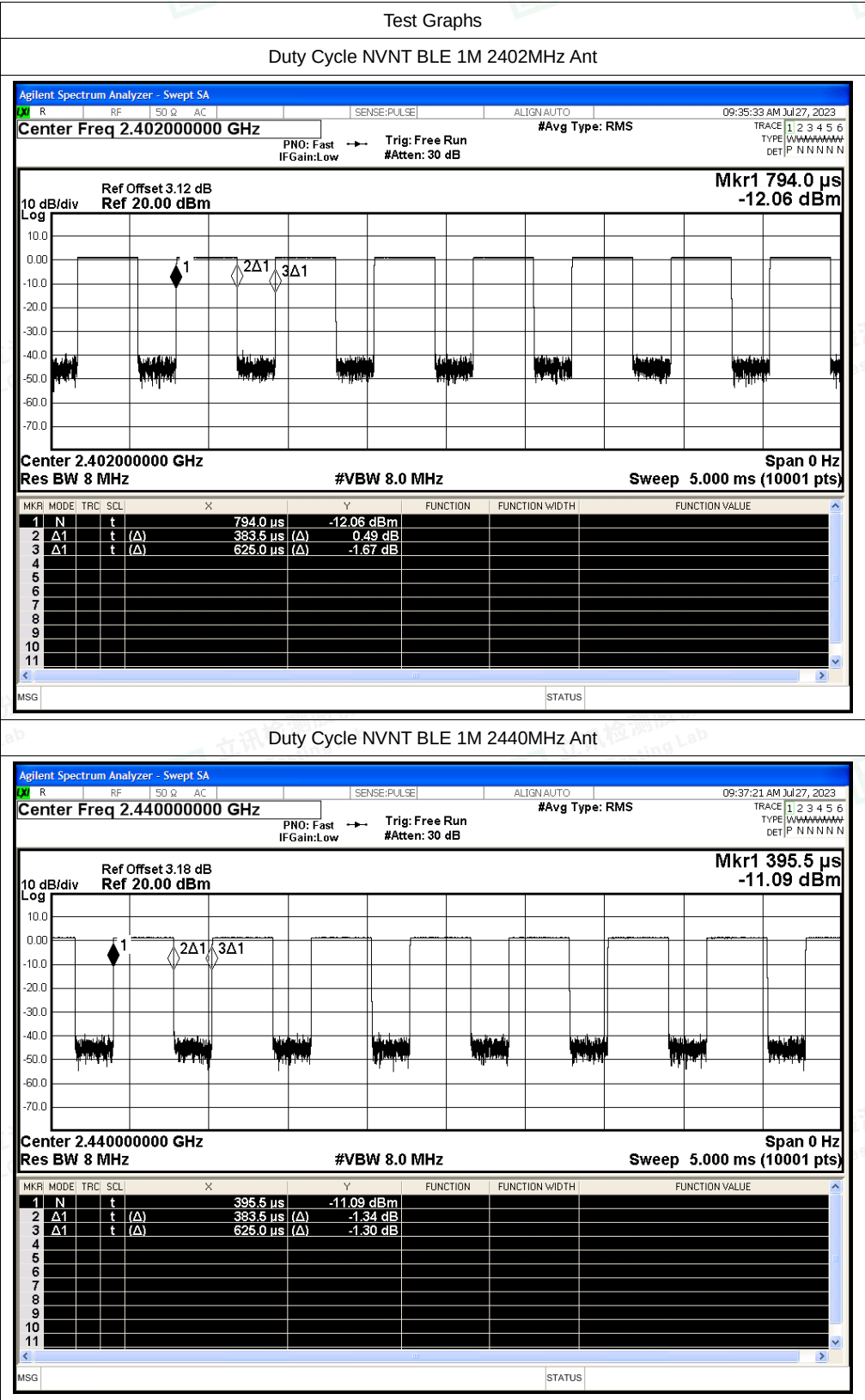


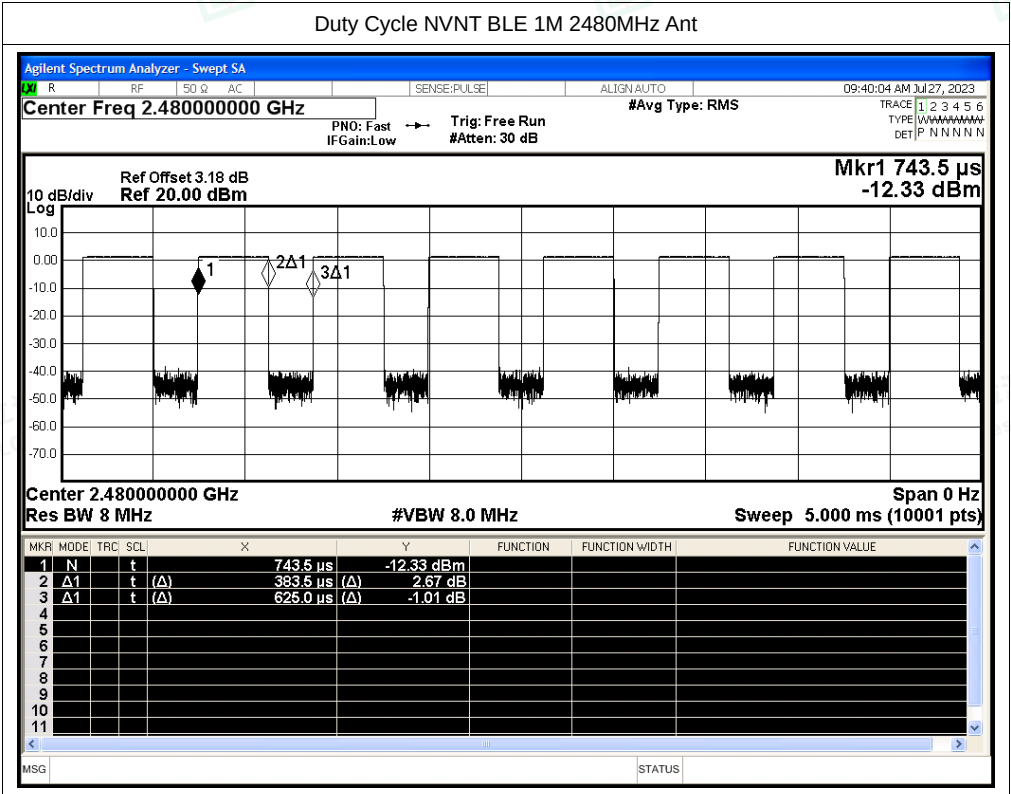


B.6 Duty Cycle

| Condition | Mode   | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | BLE 1M | 2402            | Ant     | 61.36          | 2.12                   | 2.61      |
| NVNT      | BLE 1M | 2440            | Ant     | 61.36          | 2.12                   | 2.61      |
| NVNT      | BLE 1M | 2480            | Ant     | 61.36          | 2.12                   | 2.61      |









B.7 Restrict Band

| Condition | Mode   | Frequency<br>(MHz) | Antenna | Spur Freq<br>(MHz) | Power<br>(dBm) | Gain<br>(dBi) | E<br>(dBuV/m) | Detector | Limit<br>(dBuV/m) | Verdict |
|-----------|--------|--------------------|---------|--------------------|----------------|---------------|---------------|----------|-------------------|---------|
| NVNT      | BLE 1M | 2402               | Ant     | 2310               | -50.08         | 2             | 47.18         | Peak     | 74                | Pass    |
| NVNT      | BLE 1M | 2402               | Ant     | 2310               | -56.46         | 2             | 40.8          | Average  | 54                | Pass    |
| NVNT      | BLE 1M | 2402               | Ant     | 2386.128           | -46.61         | 2             | 50.65         | Peak     | 74                | Pass    |
| NVNT      | BLE 1M | 2402               | Ant     | 2388.144           | -55.38         | 2             | 41.88         | Average  | 54                | Pass    |
| NVNT      | BLE 1M | 2402               | Ant     | 2390               | -49.32         | 2             | 47.94         | Peak     | 74                | Pass    |
| NVNT      | BLE 1M | 2402               | Ant     | 2390               | -56.08         | 2             | 41.18         | Average  | 54                | Pass    |
| NVNT      | BLE 1M | 2480               | Ant     | 2483.5             | -49.03         | 2             | 48.23         | Peak     | 74                | Pass    |
| NVNT      | BLE 1M | 2480               | Ant     | 2483.5             | -53.69         | 2             | 43.57         | Average  | 54                | Pass    |
| NVNT      | BLE 1M | 2480               | Ant     | 2490.904           | -46.08         | 2             | 51.18         | Peak     | 74                | Pass    |
| NVNT      | BLE 1M | 2480               | Ant     | 2483.512           | -53.69         | 2             | 43.57         | Average  | 54                | Pass    |
| NVNT      | BLE 1M | 2480               | Ant     | 2500               | -49.89         | 2             | 47.37         | Peak     | 74                | Pass    |
| NVNT      | BLE 1M | 2480               | Ant     | 2500               | -55.72         | 2             | 41.54         | Average  | 54                | Pass    |



