

## Appendix A for BT LE Test Data

Product Name: Wireless Keyboard

Test Model: SK75TMR

### Environmental Conditions

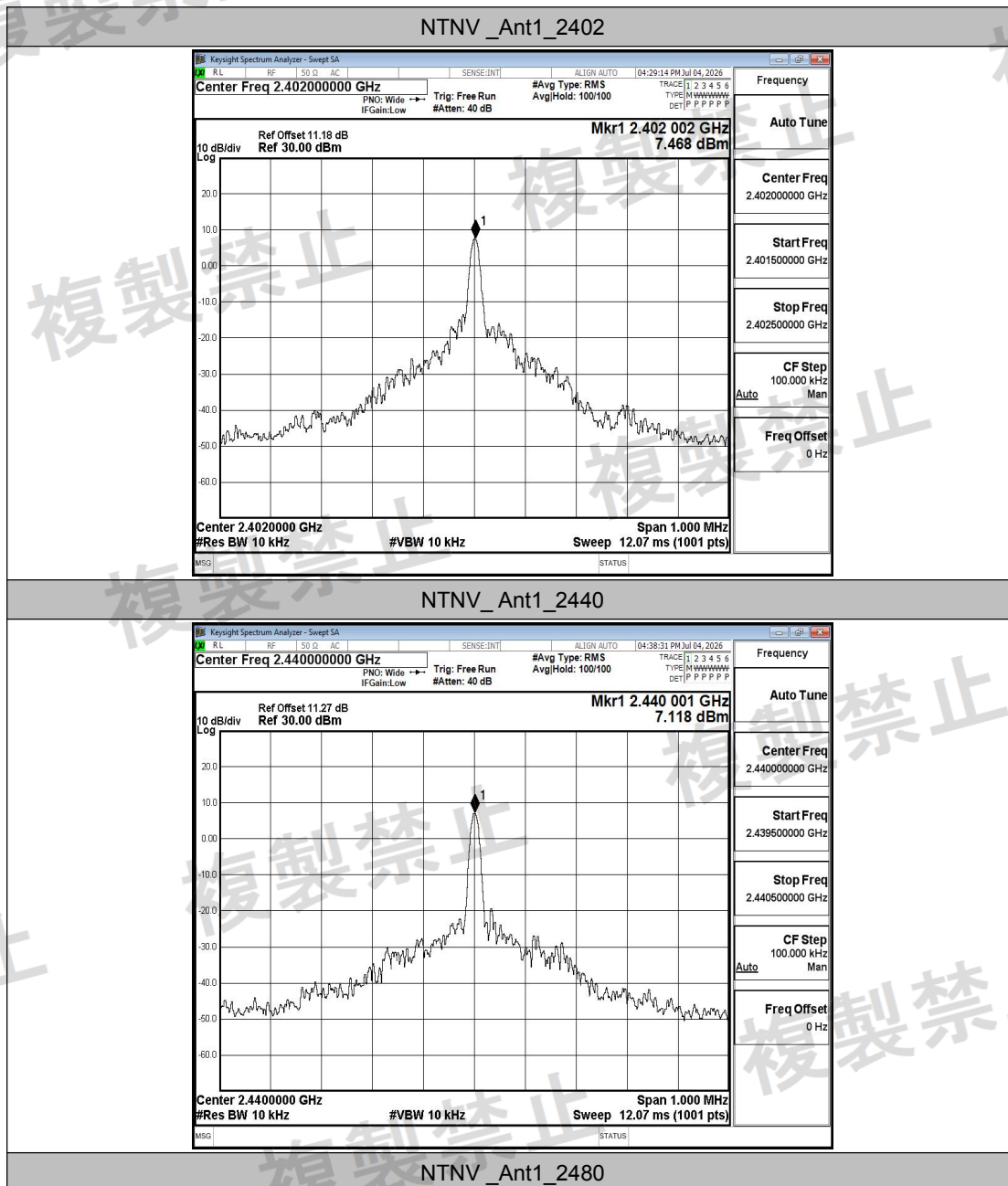
|                    |               |
|--------------------|---------------|
| Temperature:       | 23.5°C        |
| Relative Humidity: | 52.1%         |
| ATM Pressure:      | 100.0 kPa     |
| Test Engineer:     | Zhao Xing Hai |
| Supervised by:     | Fengliu Tang  |

## A.1 Frequency Error

### Test Result

| TestCondition | TestMode        | Antenna | Freq(MHz) | Result[ppm] | Limit[ppm] | Verdict |
|---------------|-----------------|---------|-----------|-------------|------------|---------|
| NTNV          | Frequency Error | Ant1    | 2402      | 0.83264     | ±50        | PASS    |
|               |                 |         | 2440      | 0.40984     | ±50        | PASS    |
|               |                 |         | 2480      | 0.40323     | ±50        | PASS    |

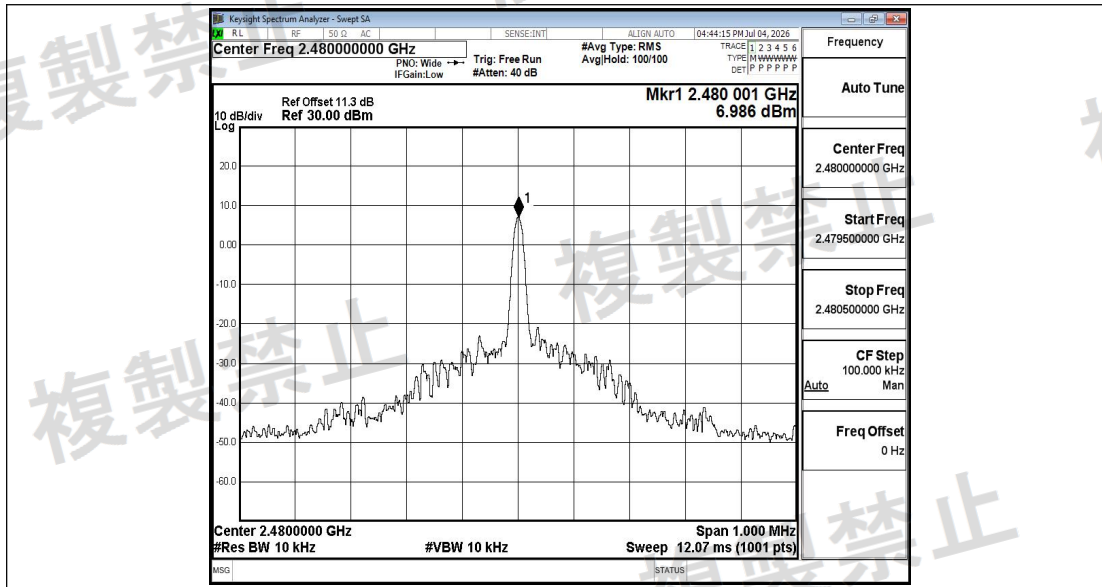
## Test Graphs



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## A.2 Antenna Power & EIRP

### Test Result

| Antenna Power |          |         |            |             |            |           |         |
|---------------|----------|---------|------------|-------------|------------|-----------|---------|
| TestCondition | TestMode | Antenna | Freq (MHz) | Result(dBm) | Result(mW) | Limit(mW) | Verdict |
| NTNV          | BLE_1M   | Ant1    | 2402       | -2.88       | 0.52       | ≤10       | PASS    |
|               |          |         | 2440       | -2.79       | 0.53       | ≤10       | PASS    |
|               |          |         | 2480       | -2.66       | 0.54       | ≤10       | PASS    |

| Tolerance      |           |         |            |            |                 |            |           |         |
|----------------|-----------|---------|------------|------------|-----------------|------------|-----------|---------|
| Test Condition | Test Mode | Antenna | Freq (MHz) | Power (mW) | RatedPower (mW) | Result (%) | Limit (%) | Verdict |
| NTNV           | BLE_1M    | Ant1    | 2402       | 0.52       | 0.5             | 4.00       | 20        | PASS    |
|                |           |         | 2440       | 0.53       | 0.5             | 6.00       | 20        | PASS    |
|                |           |         | 2480       | 0.54       | 0.5             | 8.00       | 20        | PASS    |

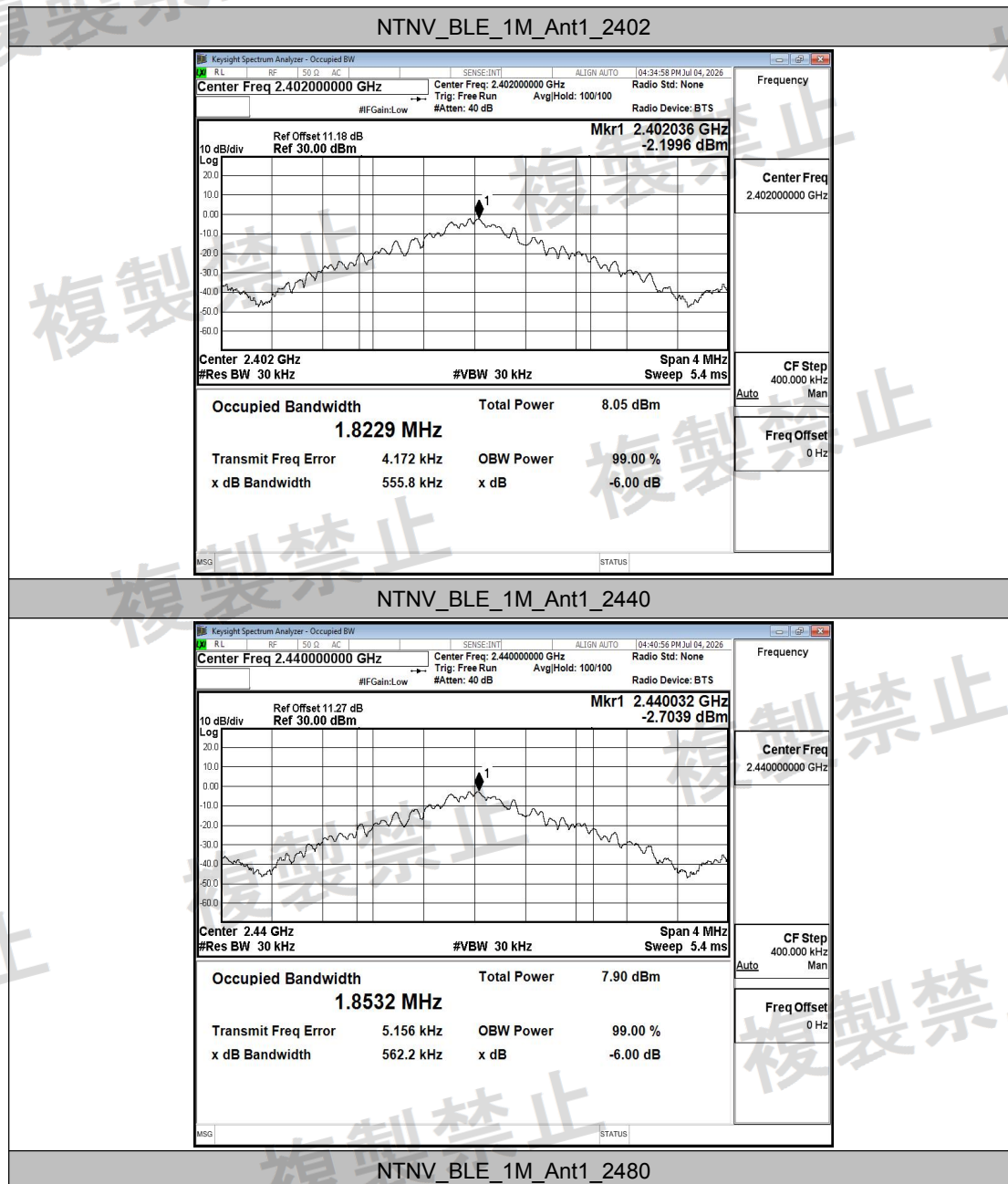
| EIRP          |          |         |                 |                      |                    |            |             |         |
|---------------|----------|---------|-----------------|----------------------|--------------------|------------|-------------|---------|
| TestCondition | TestMode | Antenna | Frequenc y[MHz] | Measured Power (dBm) | Antenna gain (dBi) | EIRP (dBm) | Limit (dBm) | Verdict |
| NTNV          | BLE_1M   | Ant1    | 2402            | -2.88                | 2.96               | 0.08       | ≤12.14      | PASS    |
|               |          |         | 2440            | -2.79                | 2.96               | 0.17       | ≤12.14      | PASS    |
|               |          |         | 2480            | -2.66                | 2.96               | 0.30       | ≤12.14      | PASS    |

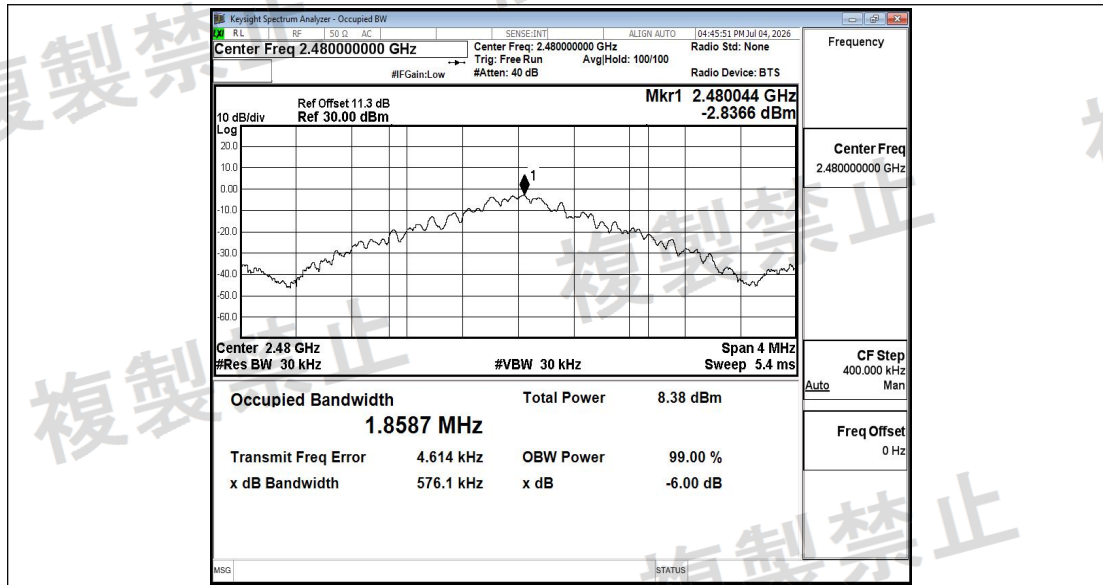
### A.3 Occupied Bandwidth

#### Test Result

| TestCondition | TestMode | Antenna | Freq(MHz) | Result [MHz] | Limit [MHz] | Verdict |
|---------------|----------|---------|-----------|--------------|-------------|---------|
| NTNV          | BLE_1M   | Ant1    | 2402      | 1.823        | ≤26         | PASS    |
|               |          |         | 2440      | 1.853        | ≤26         | PASS    |
|               |          |         | 2480      | 1.859        | ≤26         | PASS    |

## Test Graphs



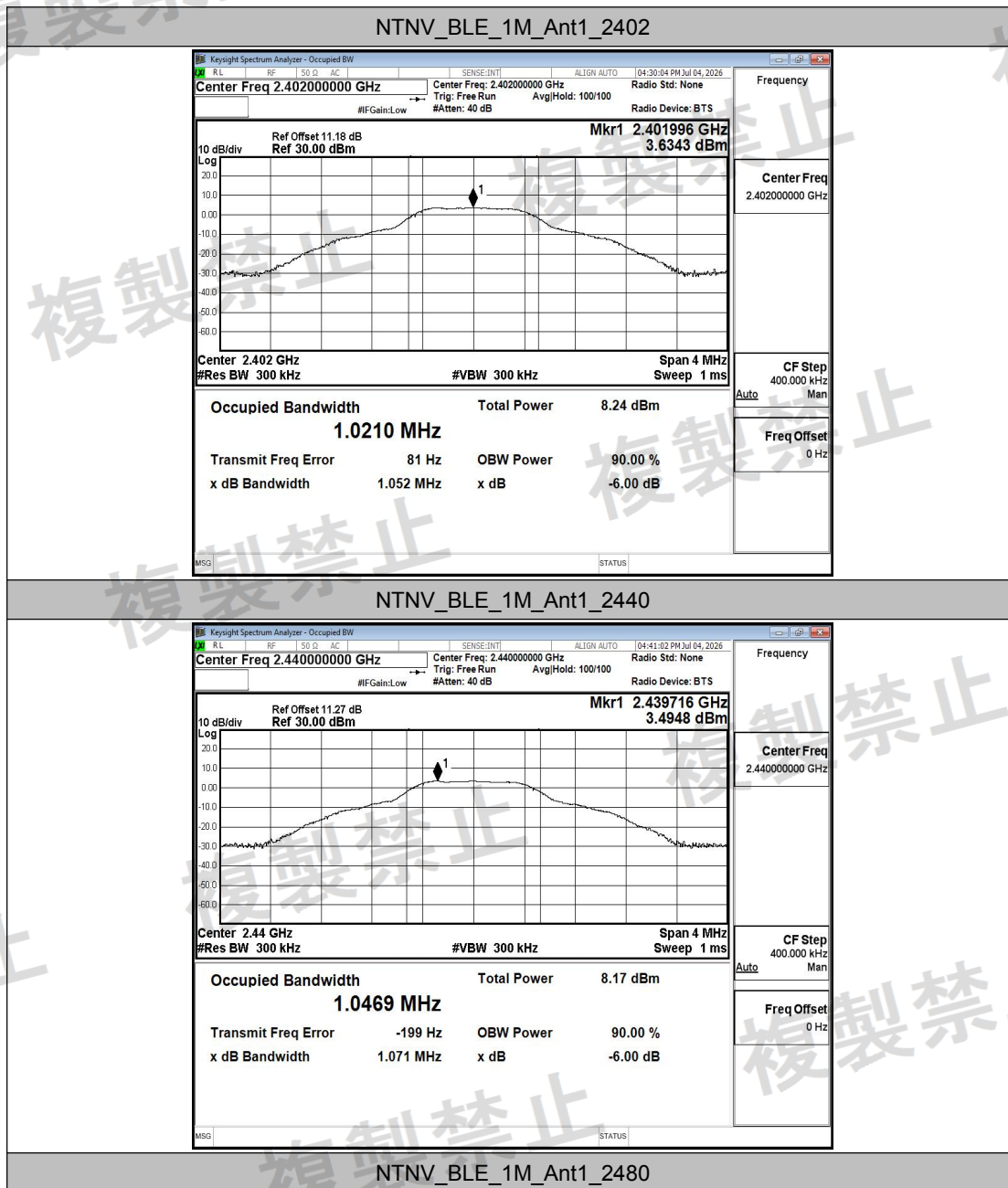


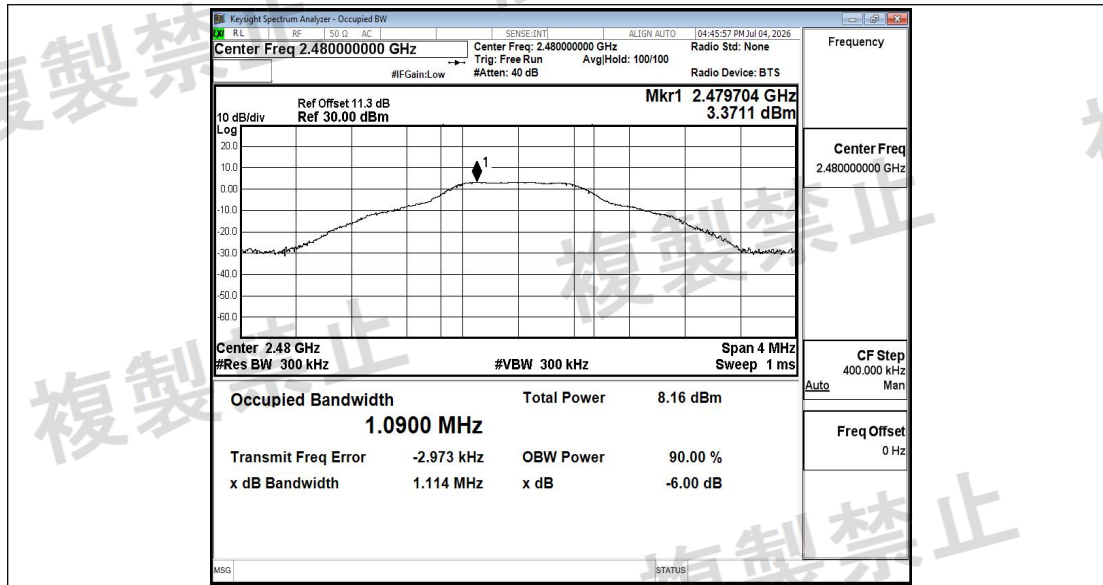
## A.4 Spread Bandwidth

### Test Result

| TestCondition | TestMode | Antenna | Freq(MHz) | Result [MHz] | Limit [MHz] | Verdict |
|---------------|----------|---------|-----------|--------------|-------------|---------|
| NTNV          | BLE_1M   | Ant1    | 2402      | 1.021        | ---         | PASS    |
|               |          |         | 2440      | 1.047        | ---         | PASS    |
|               |          |         | 2480      | 1.090        | ---         | PASS    |

## Test Graphs



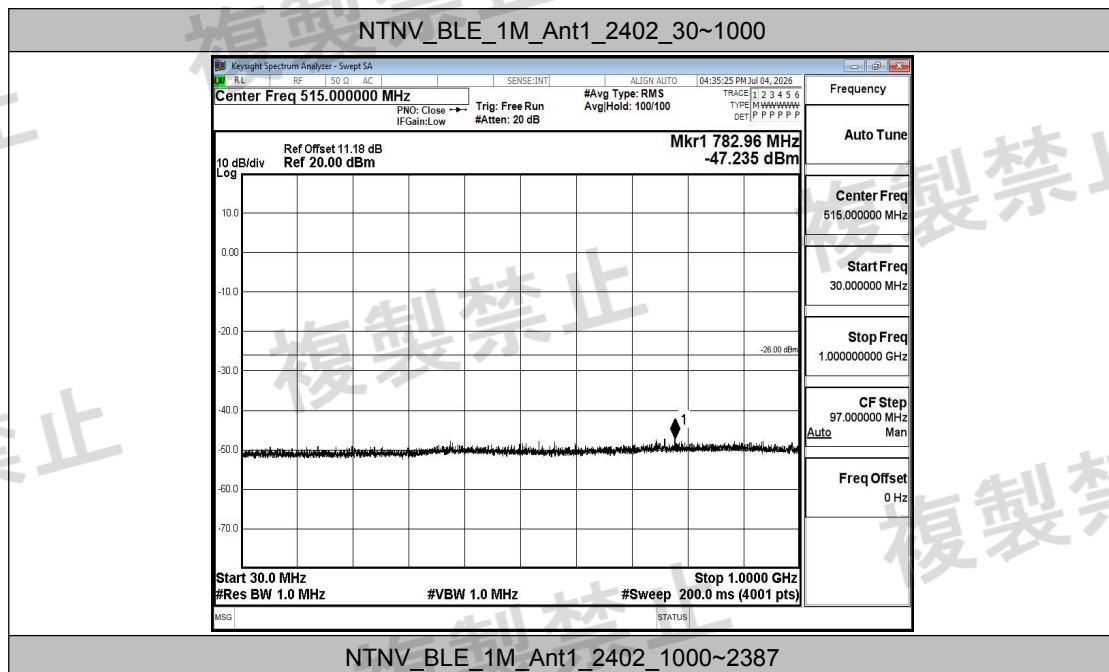


## A.5 Spurious Emission of TX

### Test Result

| TestCondition | TestMode | Antenna | Freq(M Hz) | Freq.Range [MHz] | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [μW] | Limit [μW] | Verdict |
|---------------|----------|---------|------------|------------------|-------------|--------------|-------------|-------------|------------|---------|
| NTNV          | BLE_1M   | Ant1    | 2402       | 30~1000          | 782.96      | -47.24       | ≤-26        | 0.01888     | ≤2.5       | PASS    |
|               |          |         |            | 1000~2387        | 2354.06     | -36.43       | ≤-26        | 0.22751     | ≤2.5       | PASS    |
|               |          |         |            | 2387~2400        | 2399.99     | -20.24       | ≤-16        | 9.46237     | ≤25        | PASS    |
|               |          |         |            | 2483.5~2496.5    | 2485.66     | -34.17       | ≤-16        | 0.38282     | ≤25        | PASS    |
|               |          |         |            | 2496.5~13000     | 2557.95     | -38.63       | ≤-26        | 0.13709     | ≤2.5       | PASS    |
|               |          |         | 2440       | 30~1000          | 891.36      | -47.69       | ≤-26        | 0.01702     | ≤2.5       | PASS    |
|               |          |         |            | 1000~2387        | 2380.07     | -37.12       | ≤-26        | 0.19409     | ≤2.5       | PASS    |
|               |          |         |            | 2387~2400        | 2392.27     | -32.71       | ≤-16        | 0.53580     | ≤25        | PASS    |
|               |          |         |            | 2483.5~2496.5    | 2487.75     | -33.24       | ≤-16        | 0.47424     | ≤25        | PASS    |
|               |          |         |            | 2496.5~13000     | 2499.65     | -38.25       | ≤-26        | 0.14962     | ≤2.5       | PASS    |
|               |          |         | 2480       | 30~1000          | 449.53      | -47.04       | ≤-26        | 0.01977     | ≤2.5       | PASS    |
|               |          |         |            | 1000~2387        | 2312.10     | -40.40       | ≤-26        | 0.09120     | ≤2.5       | PASS    |
|               |          |         |            | 2387~2400        | 2395.43     | -34.81       | ≤-16        | 0.33037     | ≤25        | PASS    |
|               |          |         |            | 2483.5~2496.5    | 2496.44     | -33.17       | ≤-16        | 0.48195     | ≤25        | PASS    |
|               |          |         |            | 2496.5~13000     | 2527.49     | -37.97       | ≤-26        | 0.15959     | ≤2.5       | PASS    |

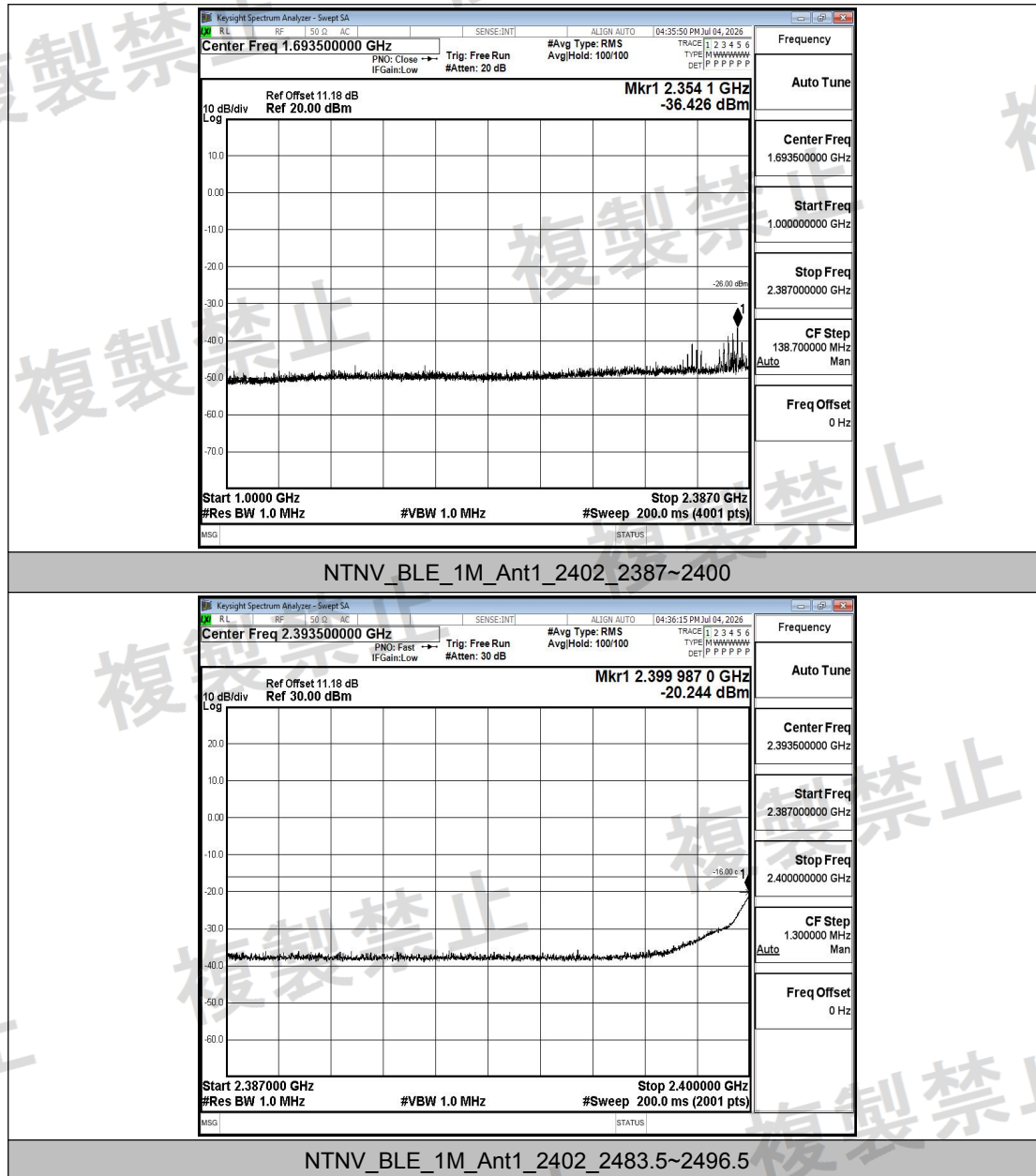
### Test Graphs

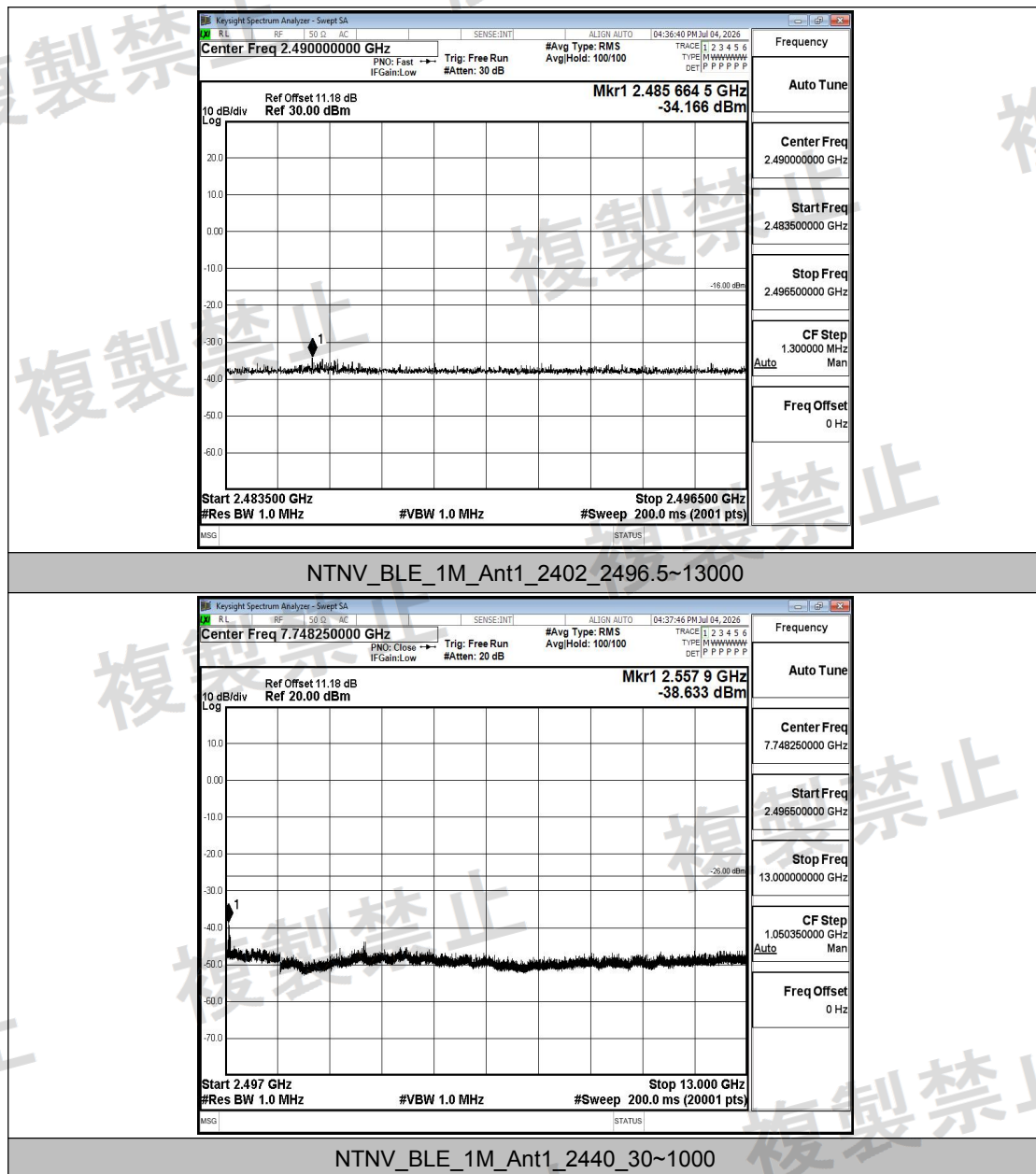


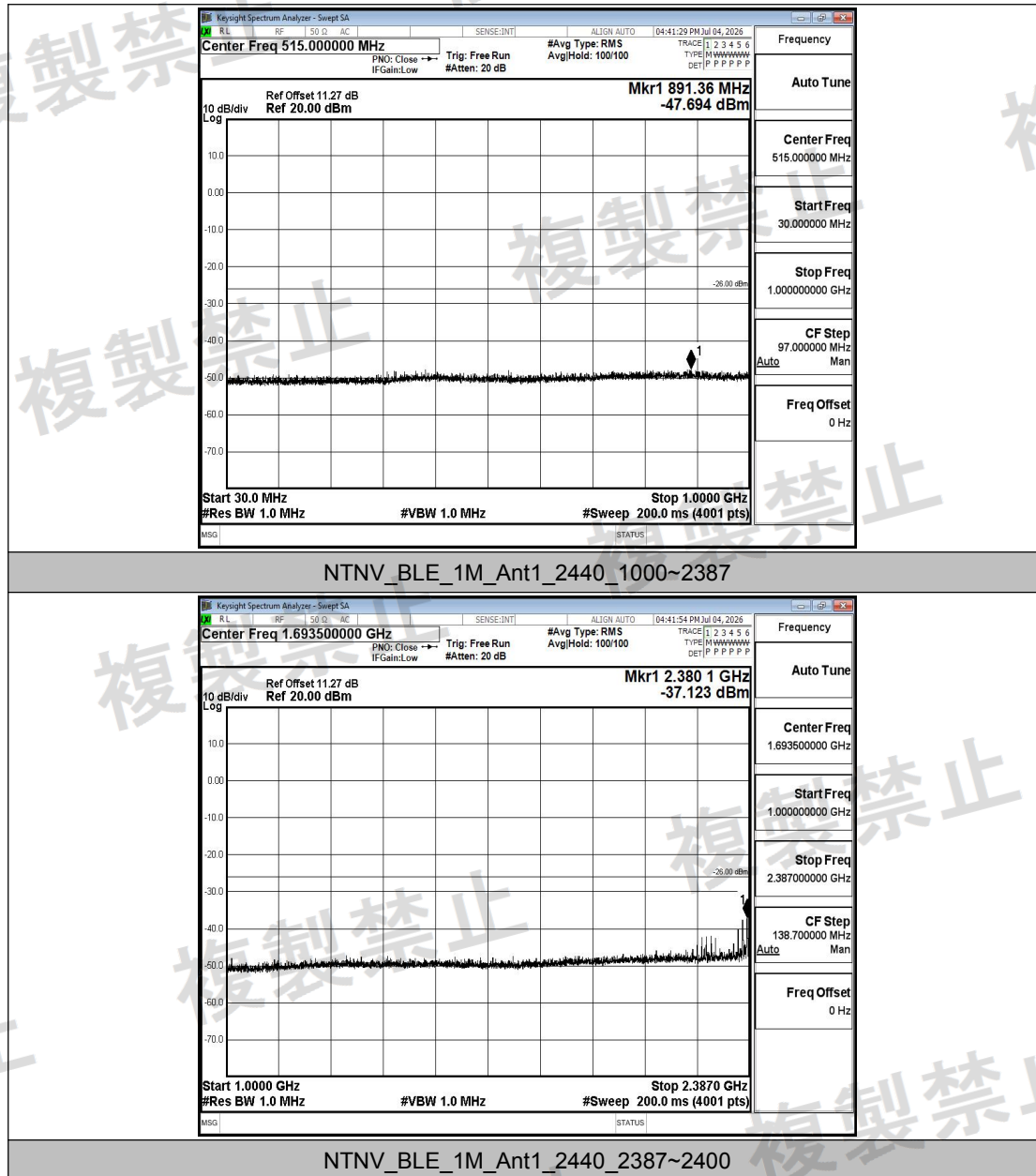
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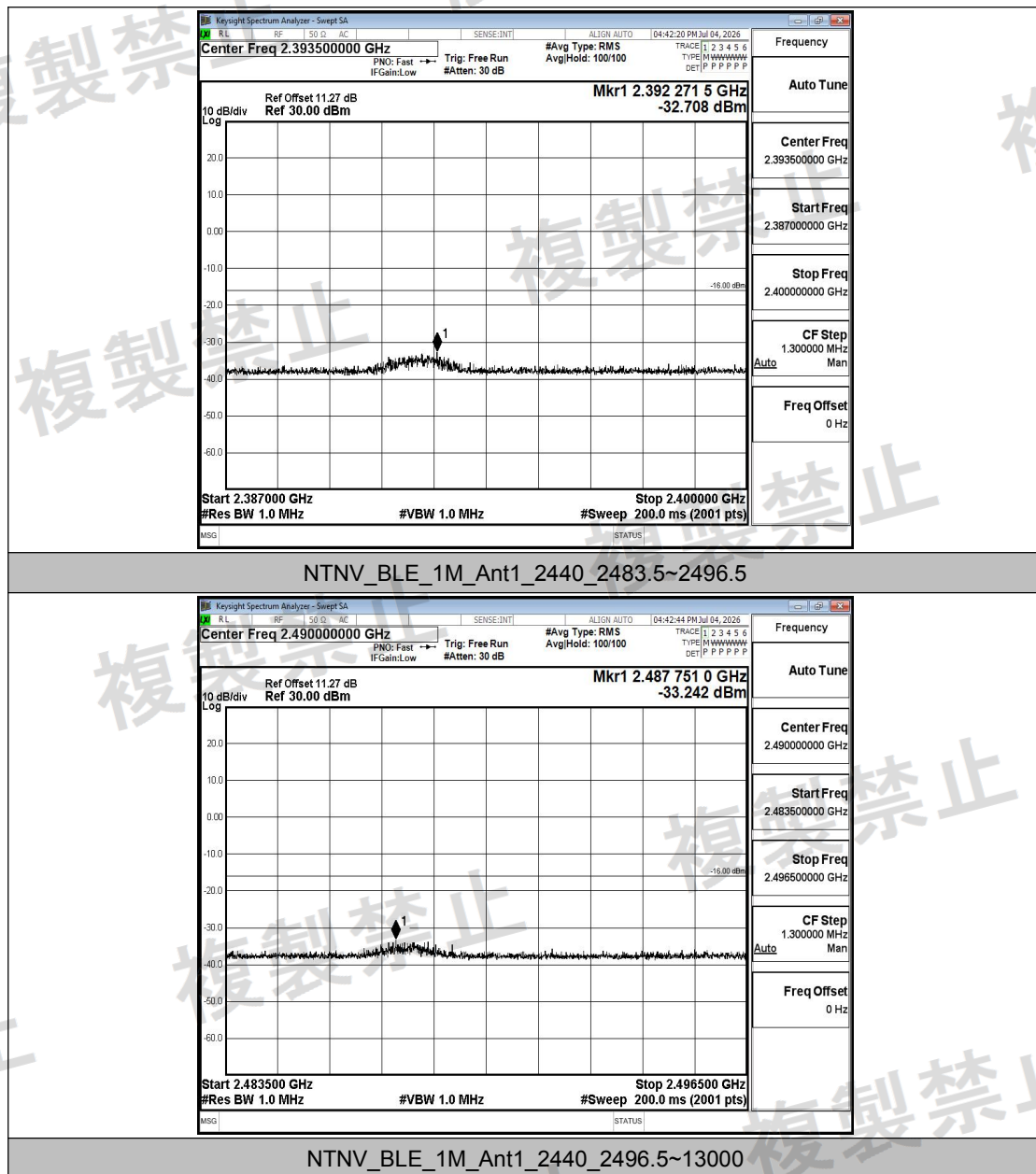
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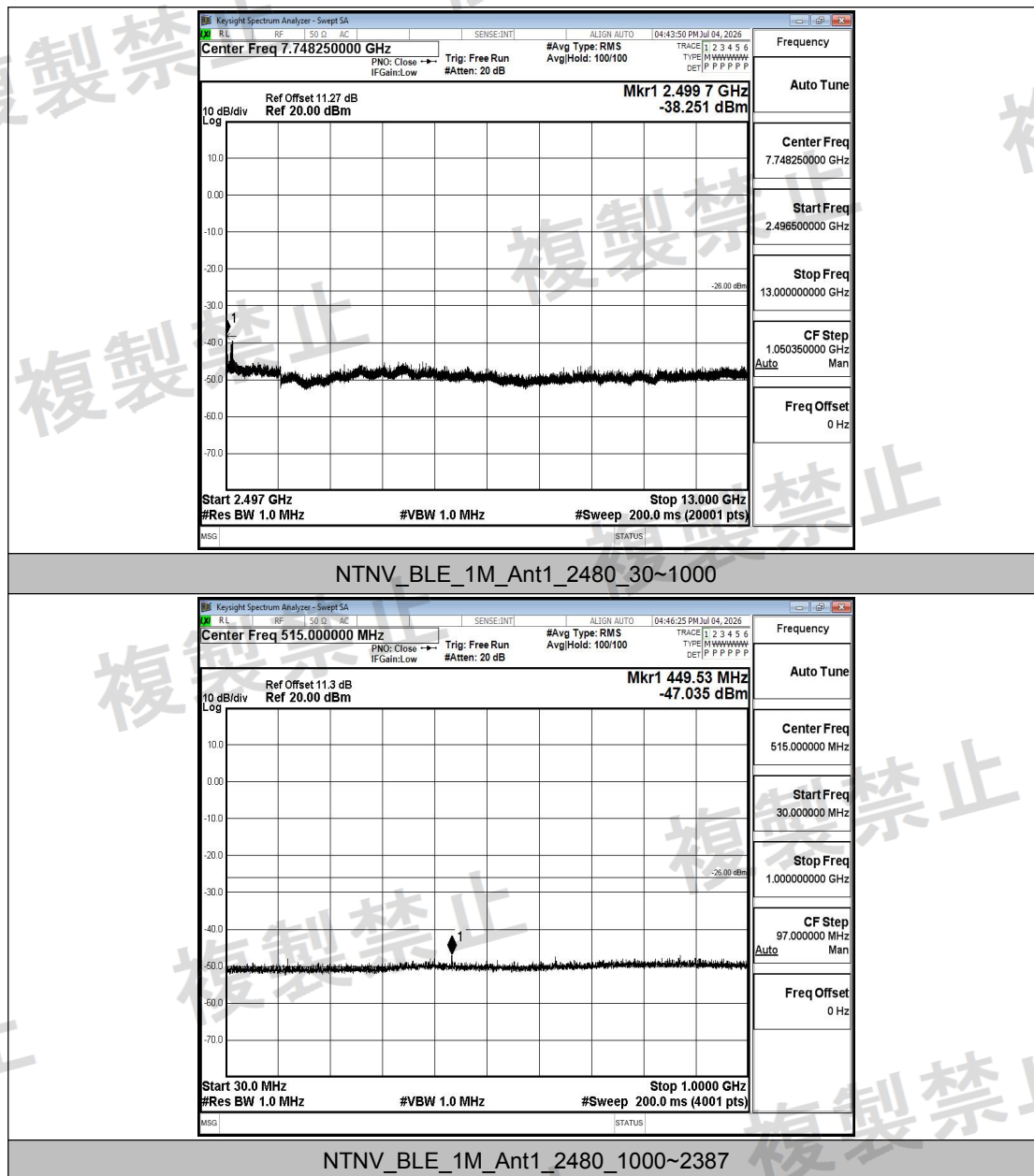
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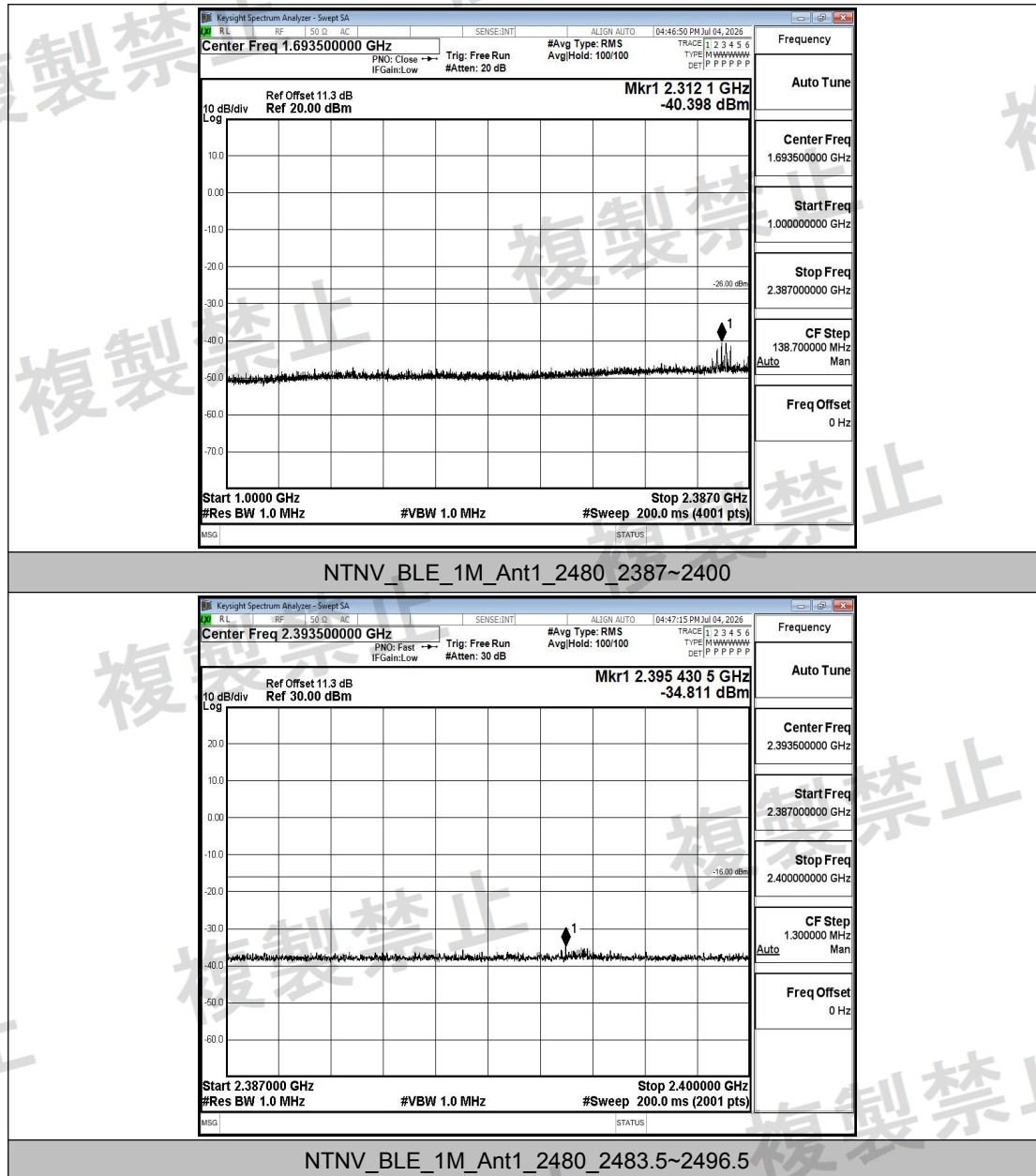


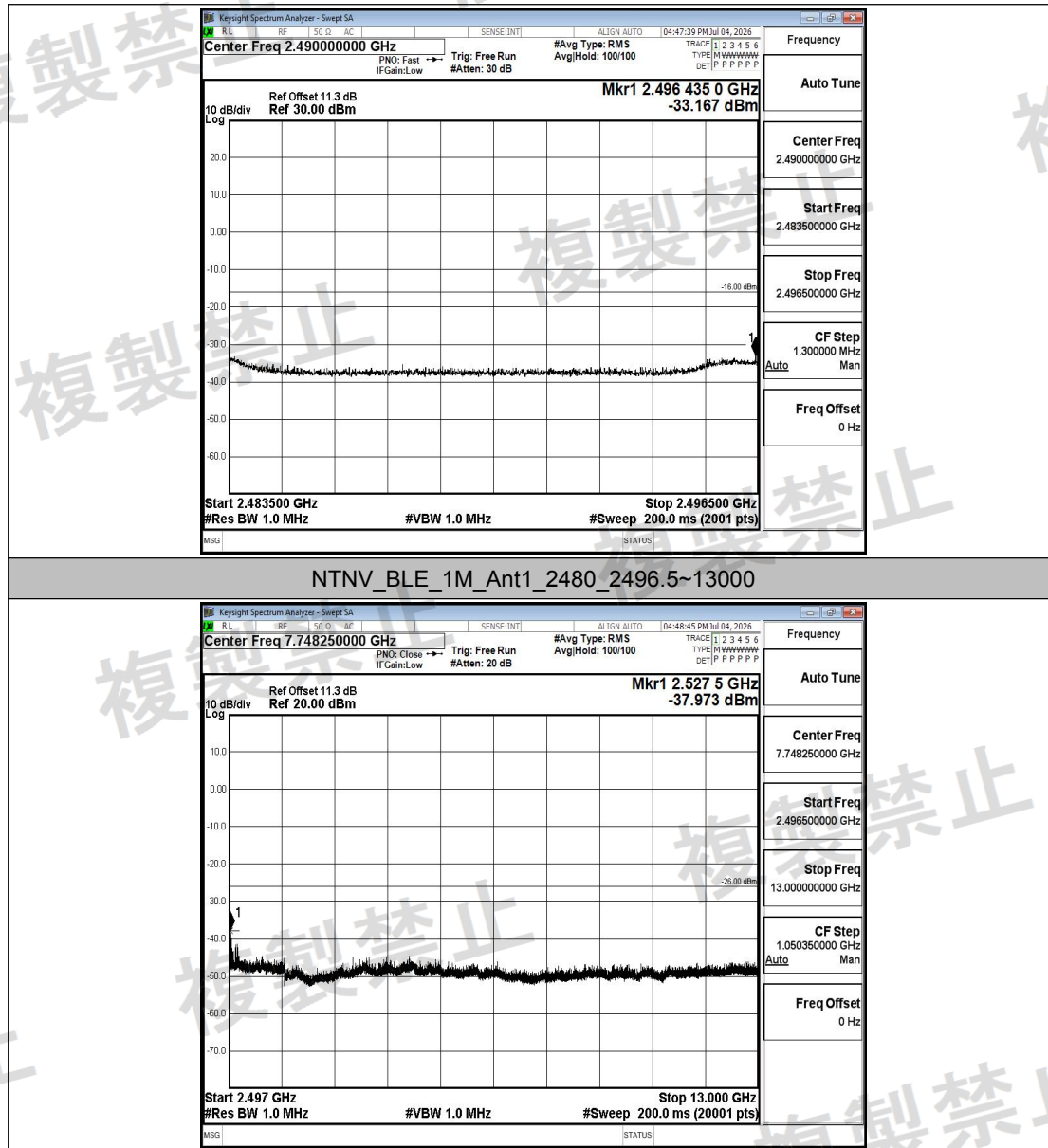


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## A.6 Spurious Emission of RX

### Test Result

| TestCondition | TestMode | Antenna | Freq(M Hz) | Freq.Range [MHz] | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [nW] | Limit [nW] | Verdict |
|---------------|----------|---------|------------|------------------|-------------|--------------|-------------|-------------|------------|---------|
| NTNV          | BLE_1M   | Ant1    | 2402       | 30~1000          | 835.10      | -79.36       | ≤-54        | 0.01159     | ≤4         | PASS    |
|               |          |         |            | 1000~12500       | 2646.80     | -65.89       | ≤-47        | 0.25763     | ≤20        | PASS    |
|               |          |         | 2440       | 30~1000          | 967.99      | -79.04       | ≤-54        | 0.01247     | ≤4         | PASS    |
|               |          |         |            | 1000~12500       | 2723.28     | -66.44       | ≤-47        | 0.22699     | ≤20        | PASS    |
|               |          |         | 2480       | 30~1000          | 887.48      | -78.92       | ≤-54        | 0.01282     | ≤4         | PASS    |
|               |          |         |            | 1000~12500       | 5983.53     | -66.24       | ≤-47        | 0.23768     | ≤20        | PASS    |

### Test Graphs

