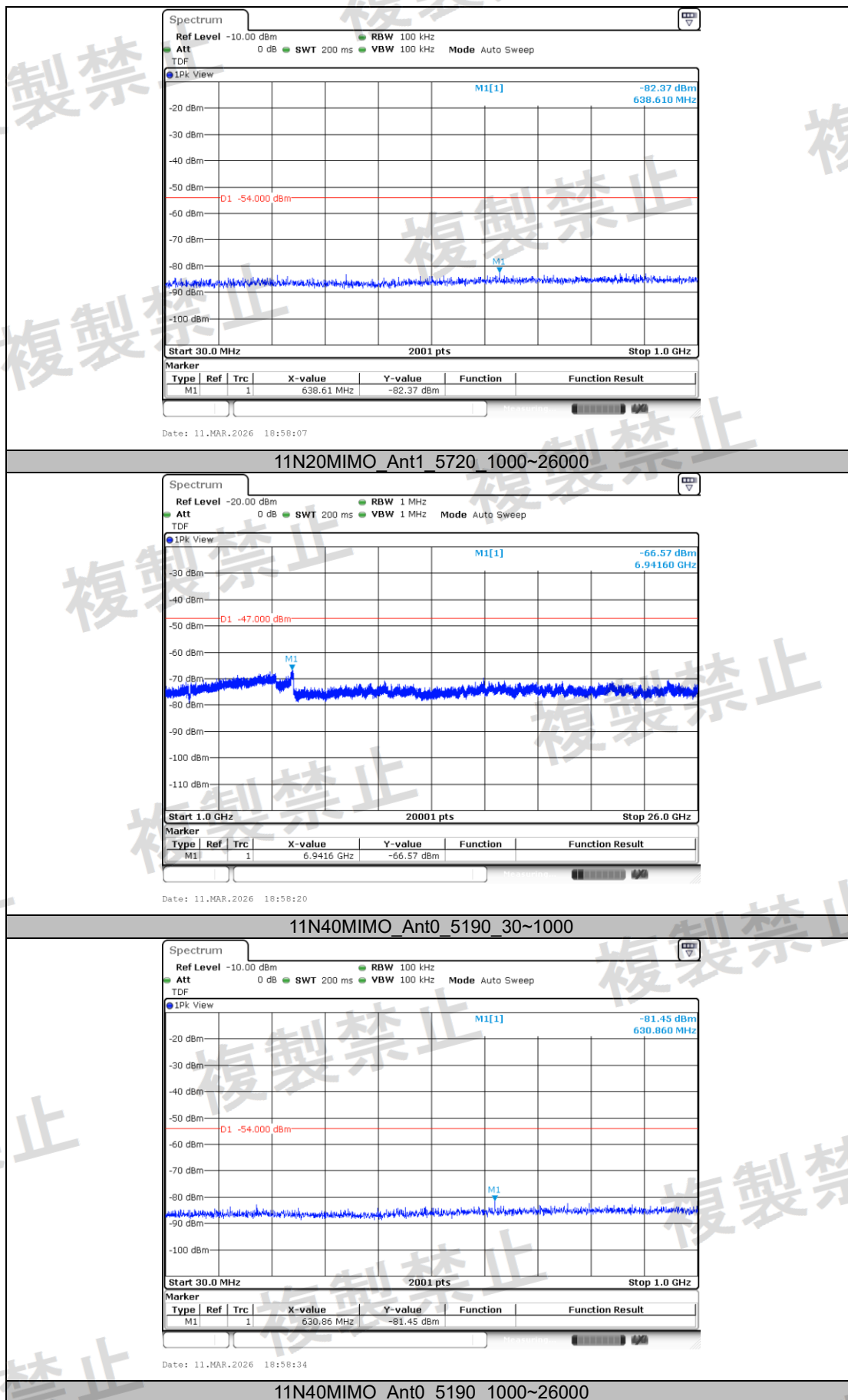




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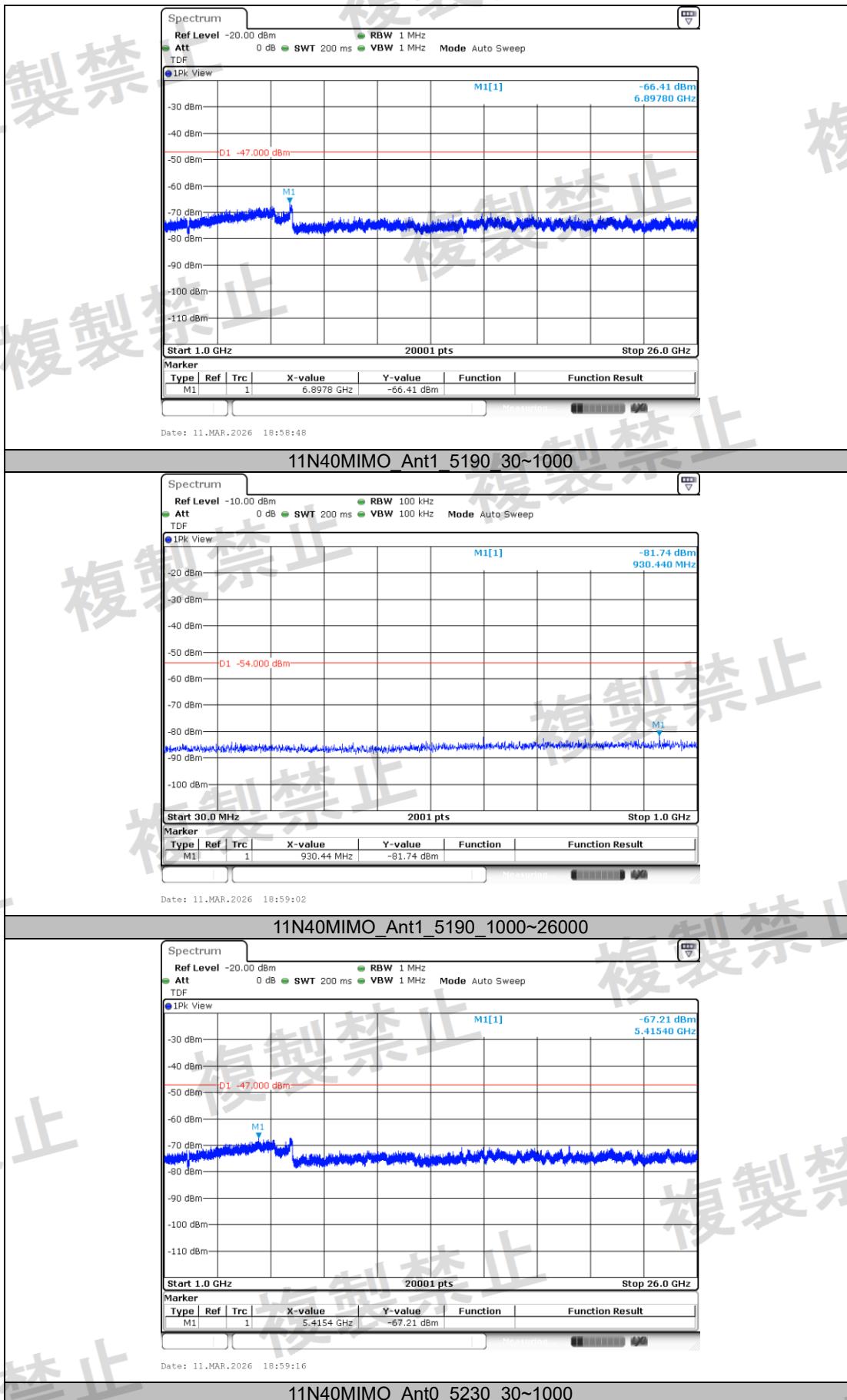
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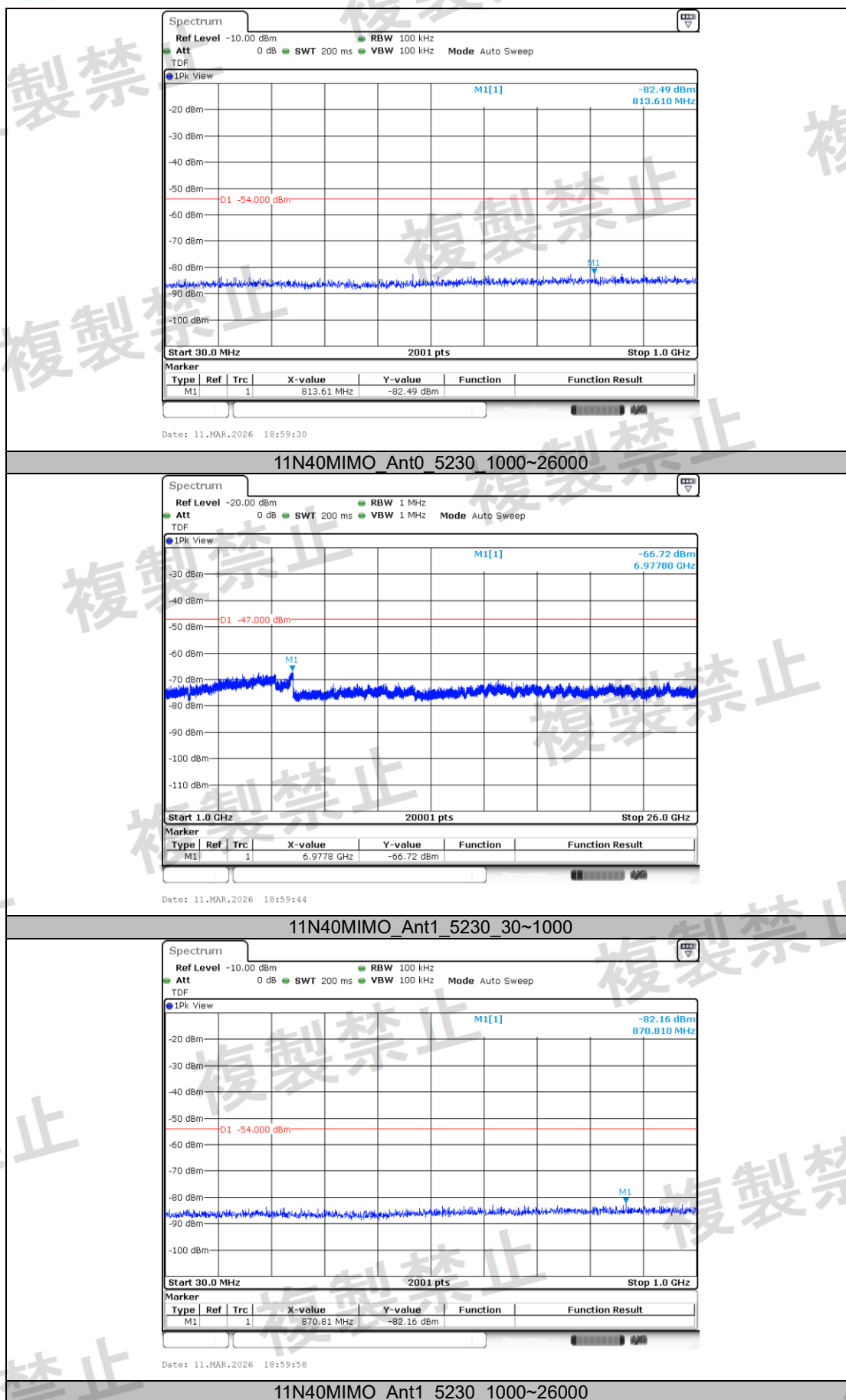
Tel.: (86)755-27521059 Fax: (86)755-27521011

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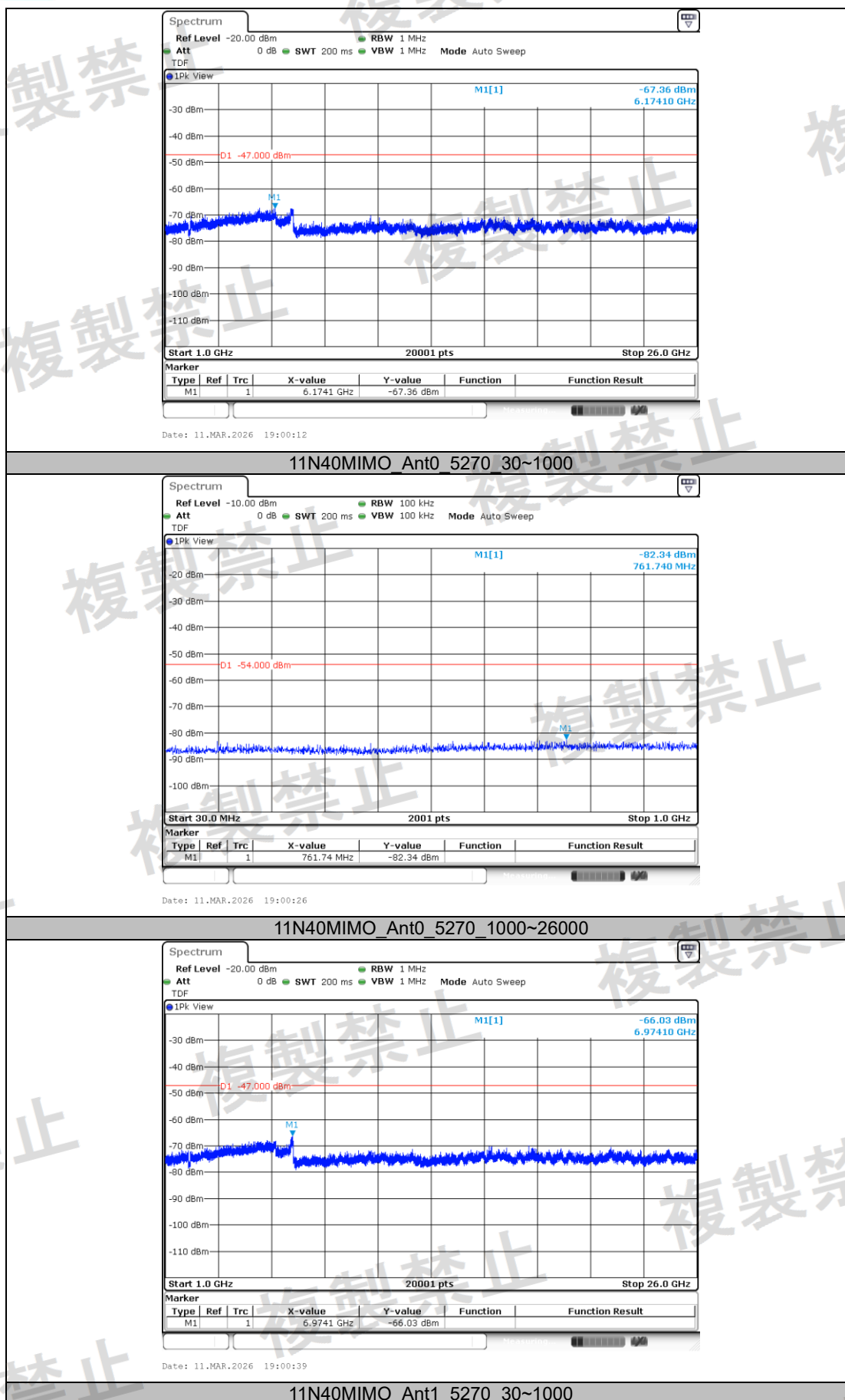
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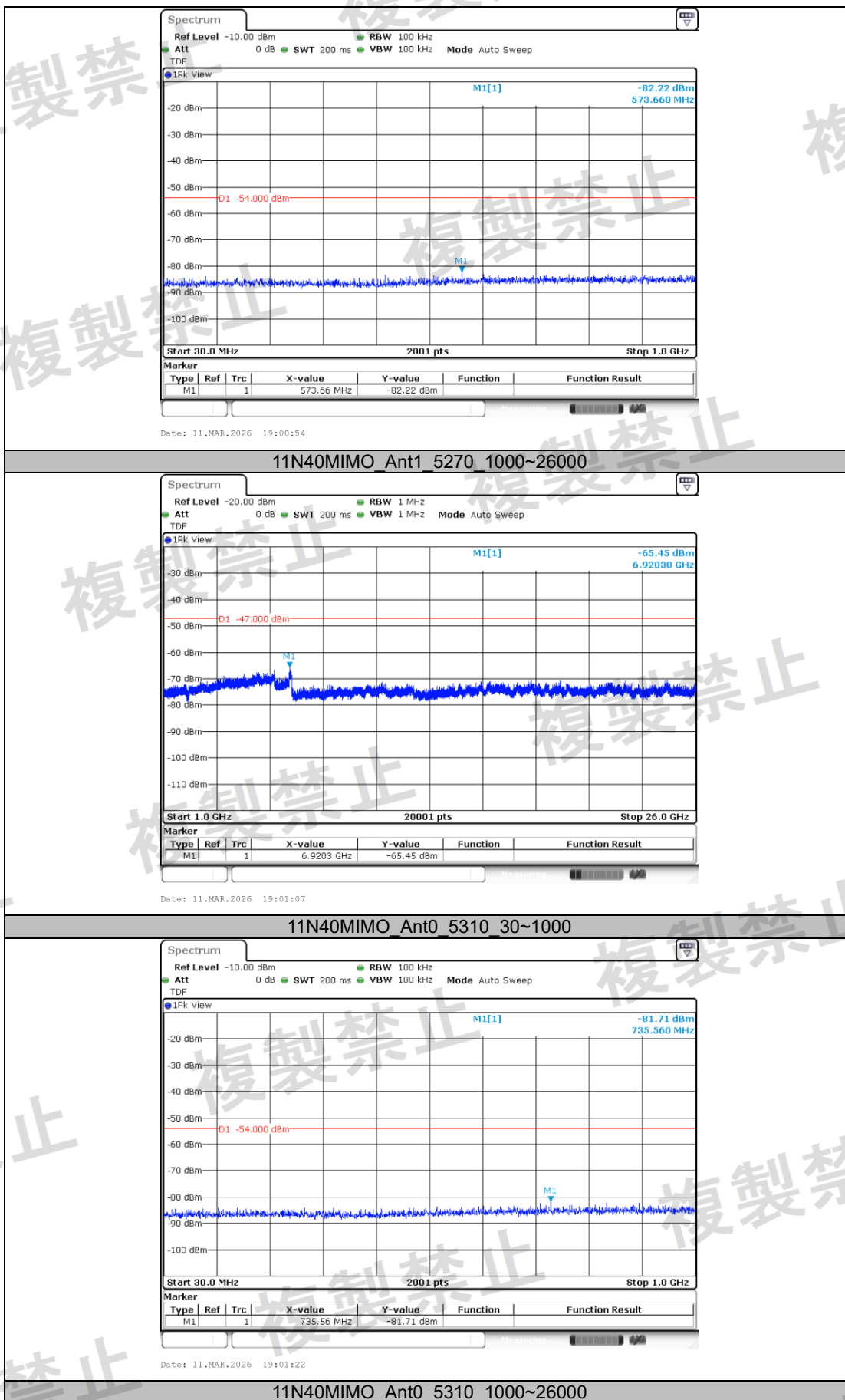
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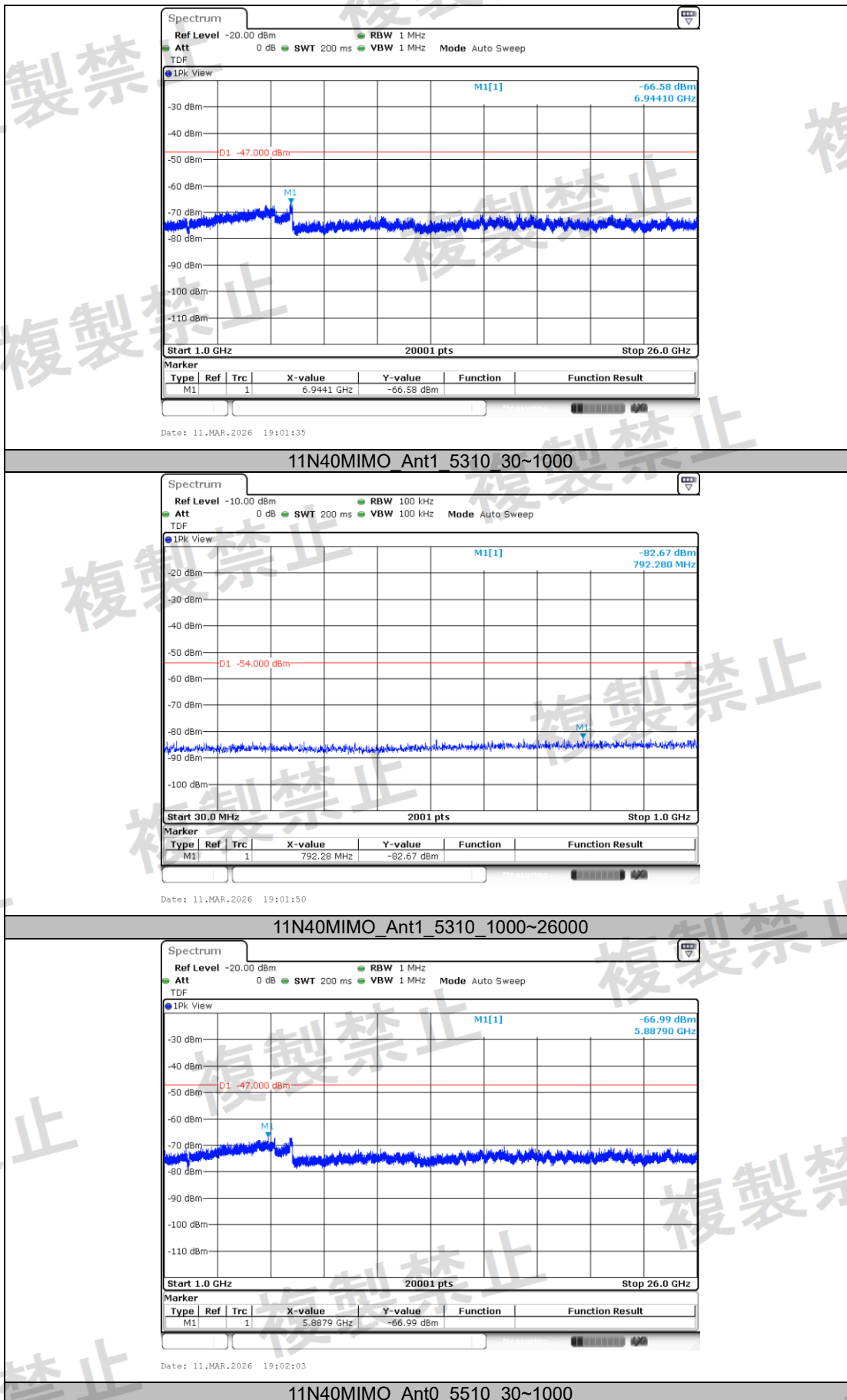
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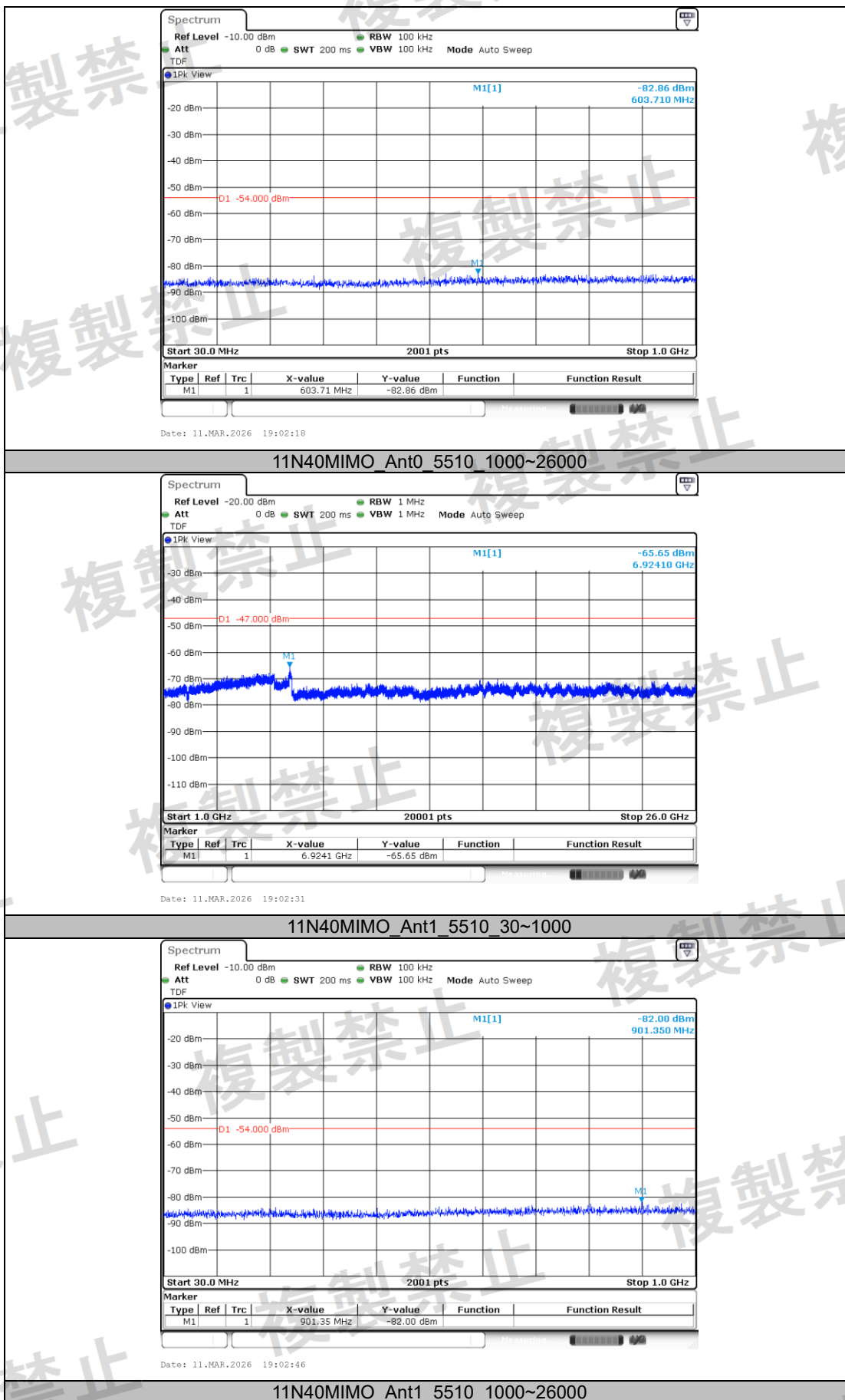
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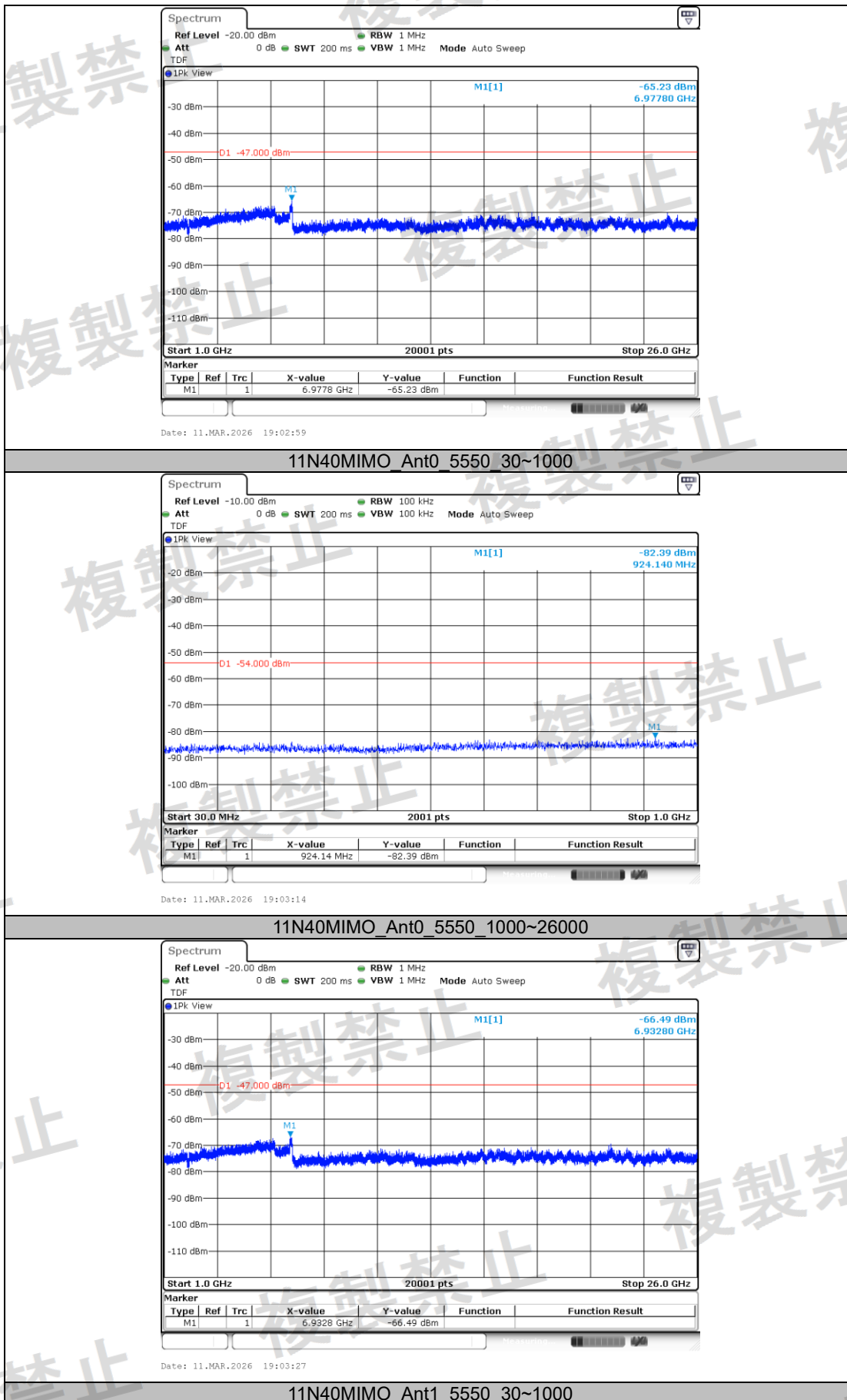
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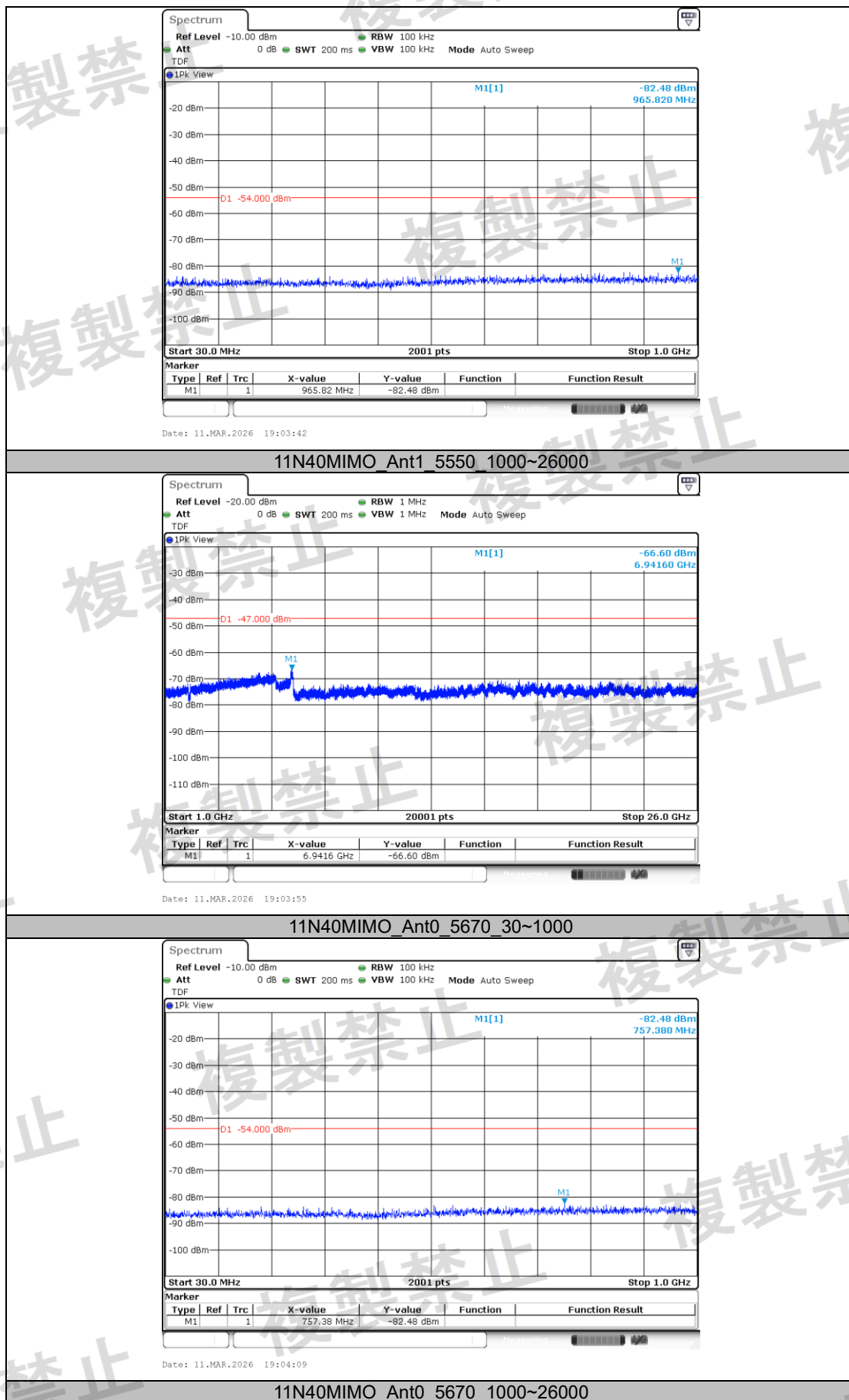
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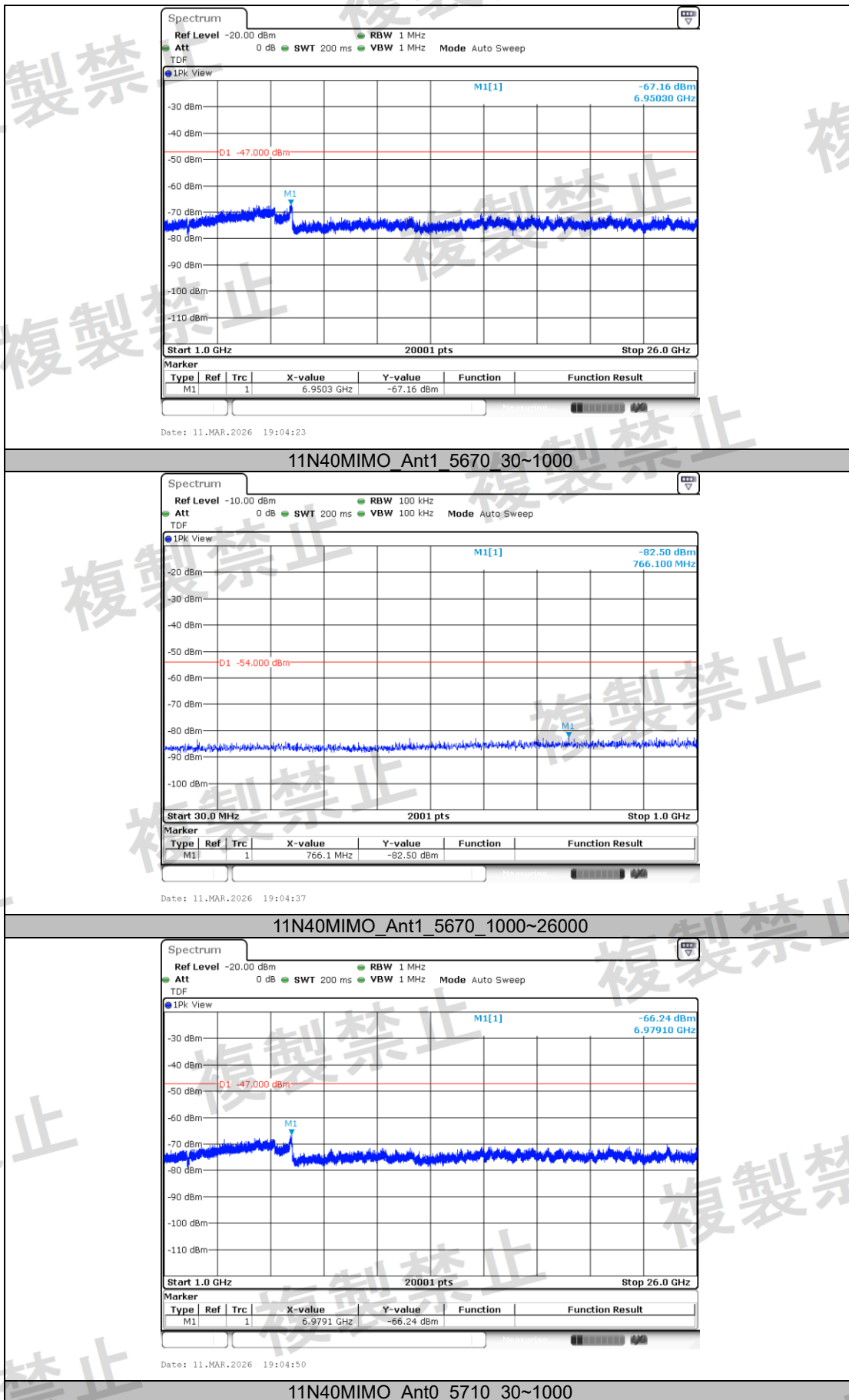
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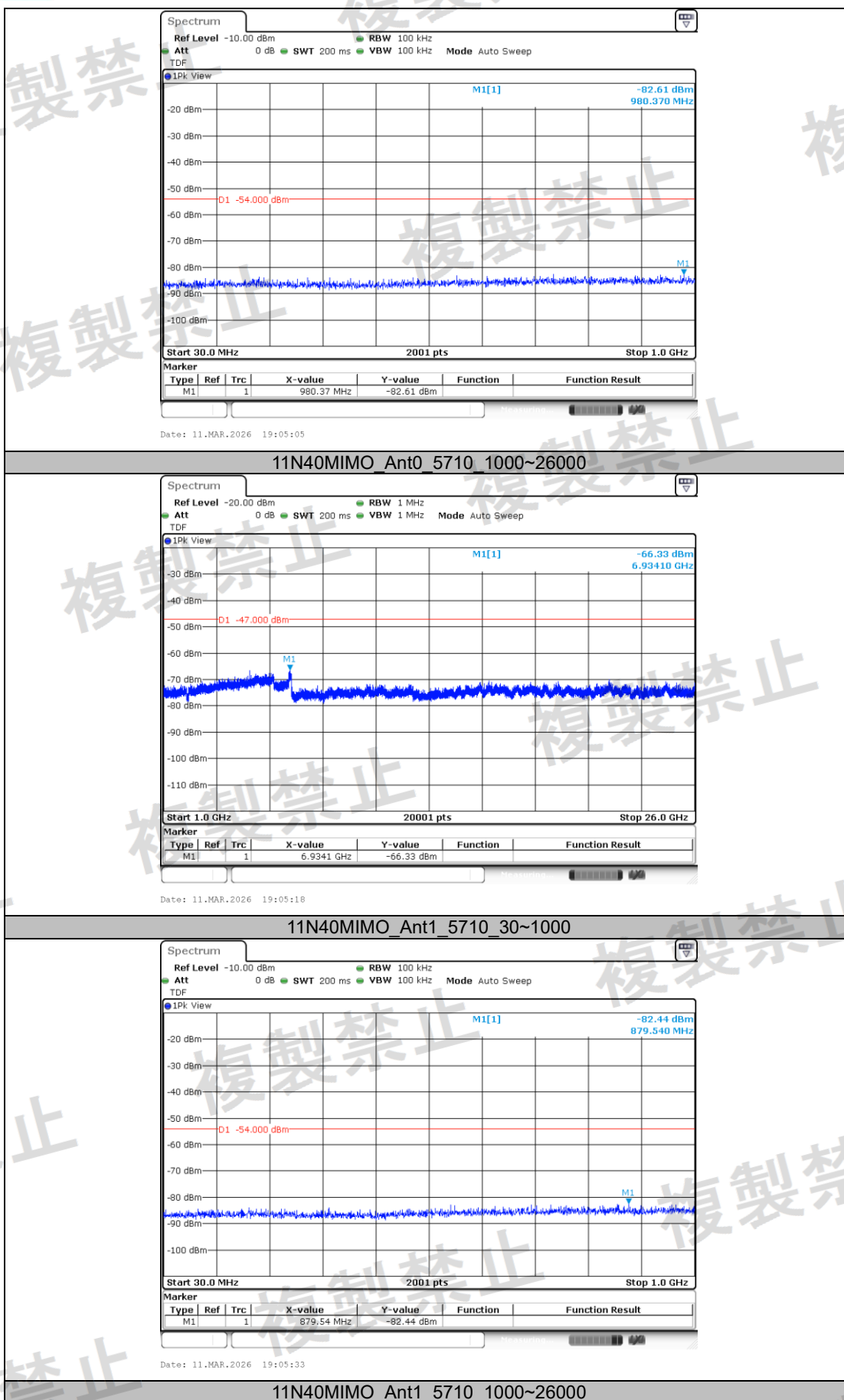
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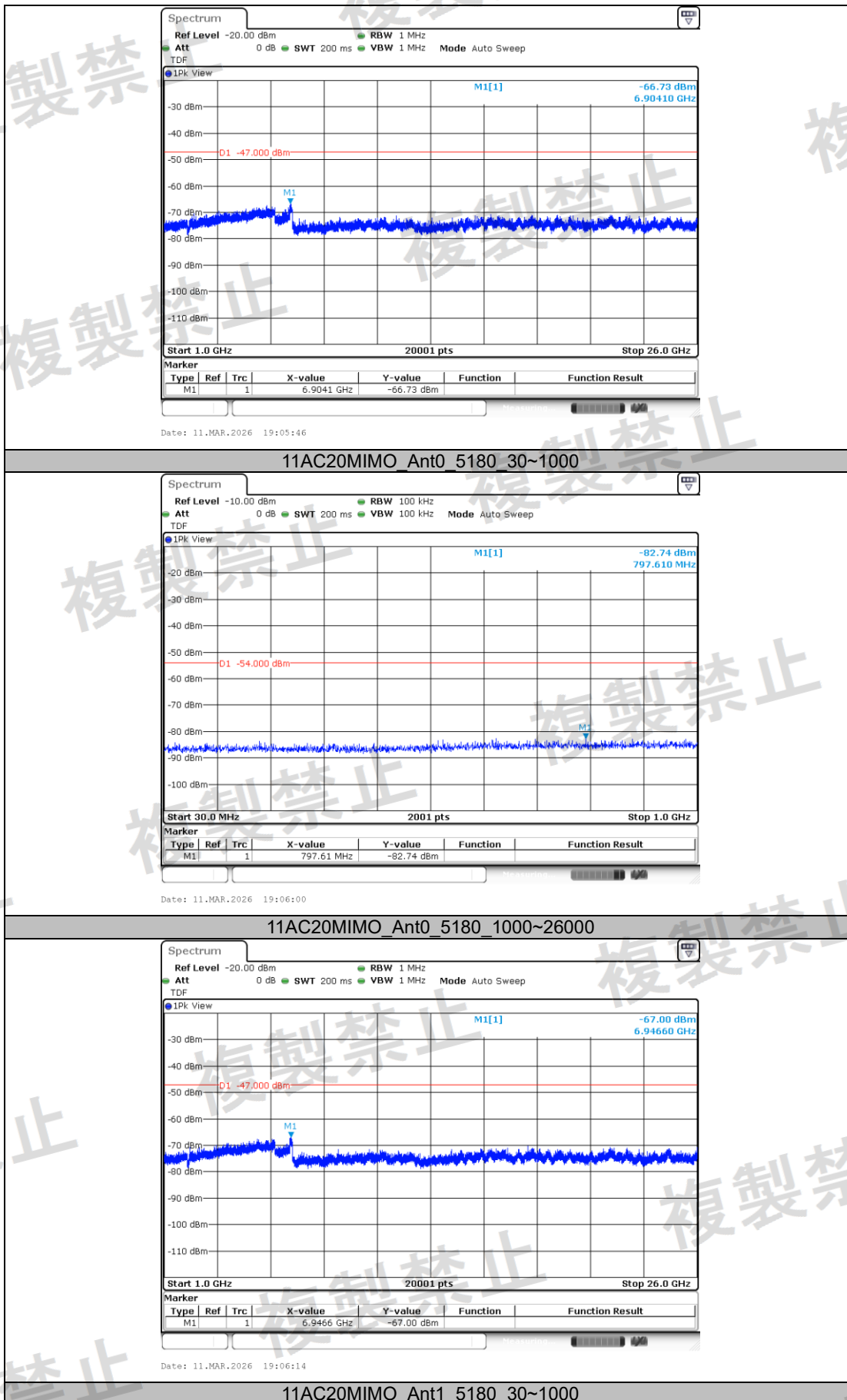
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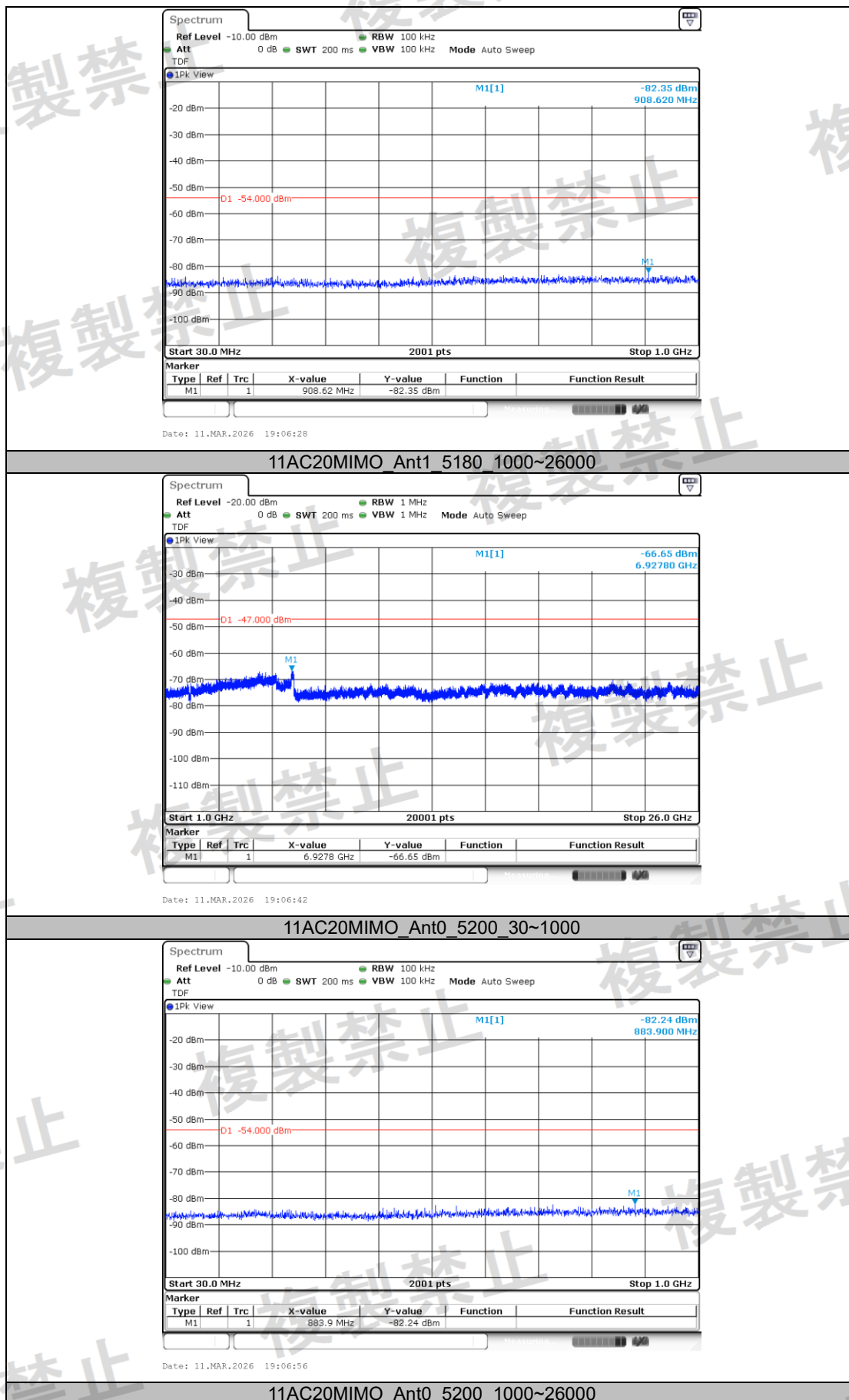
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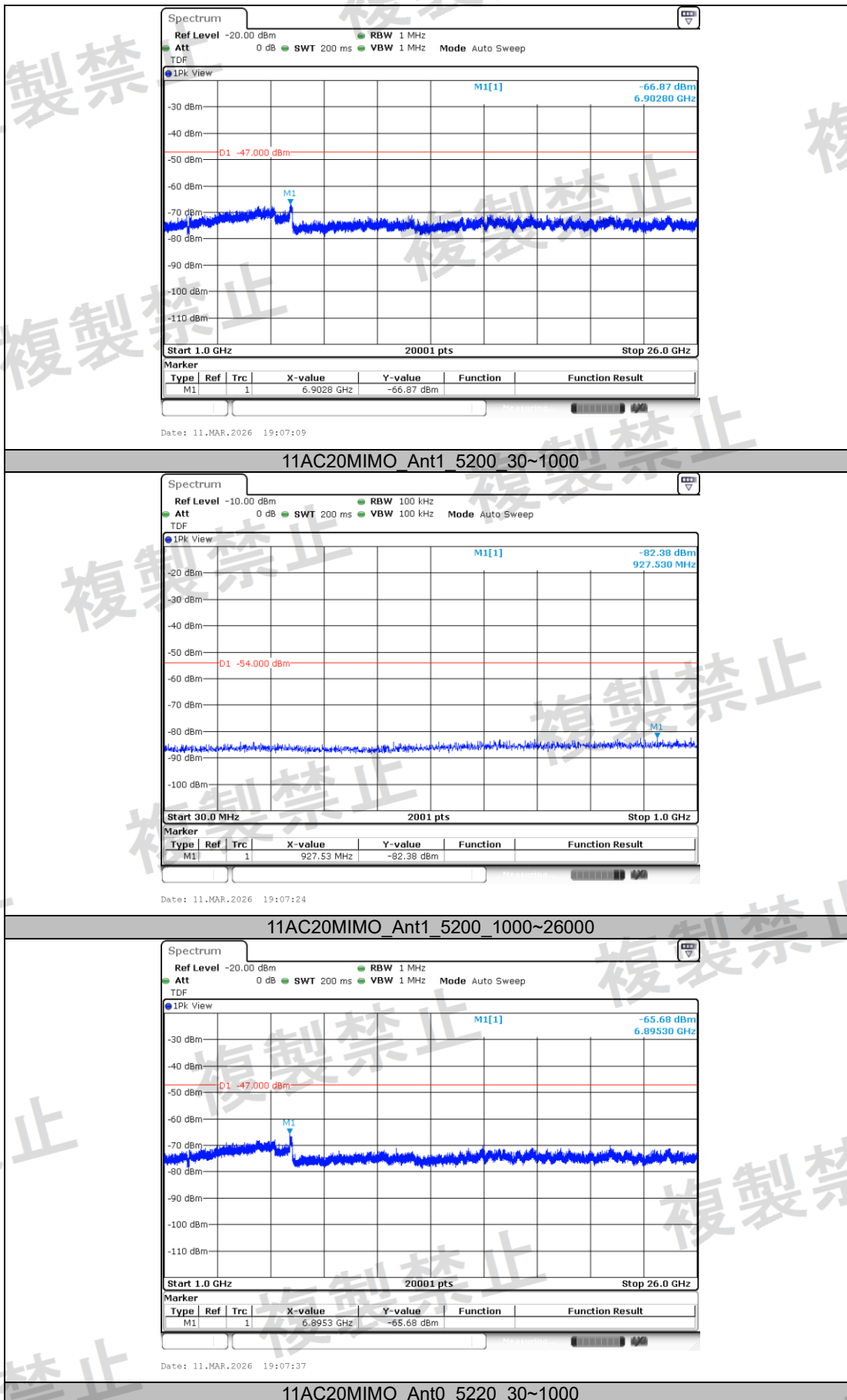
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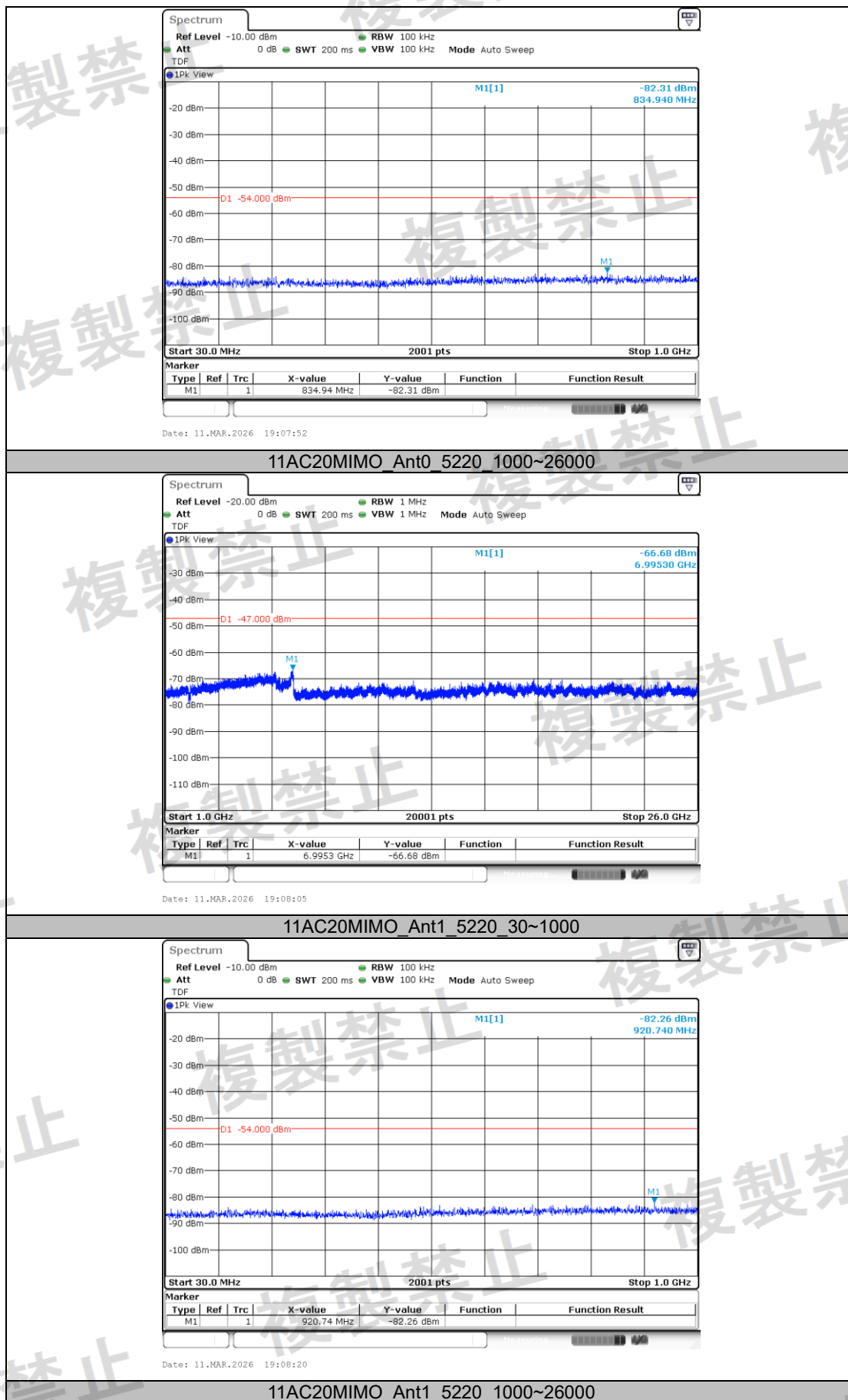
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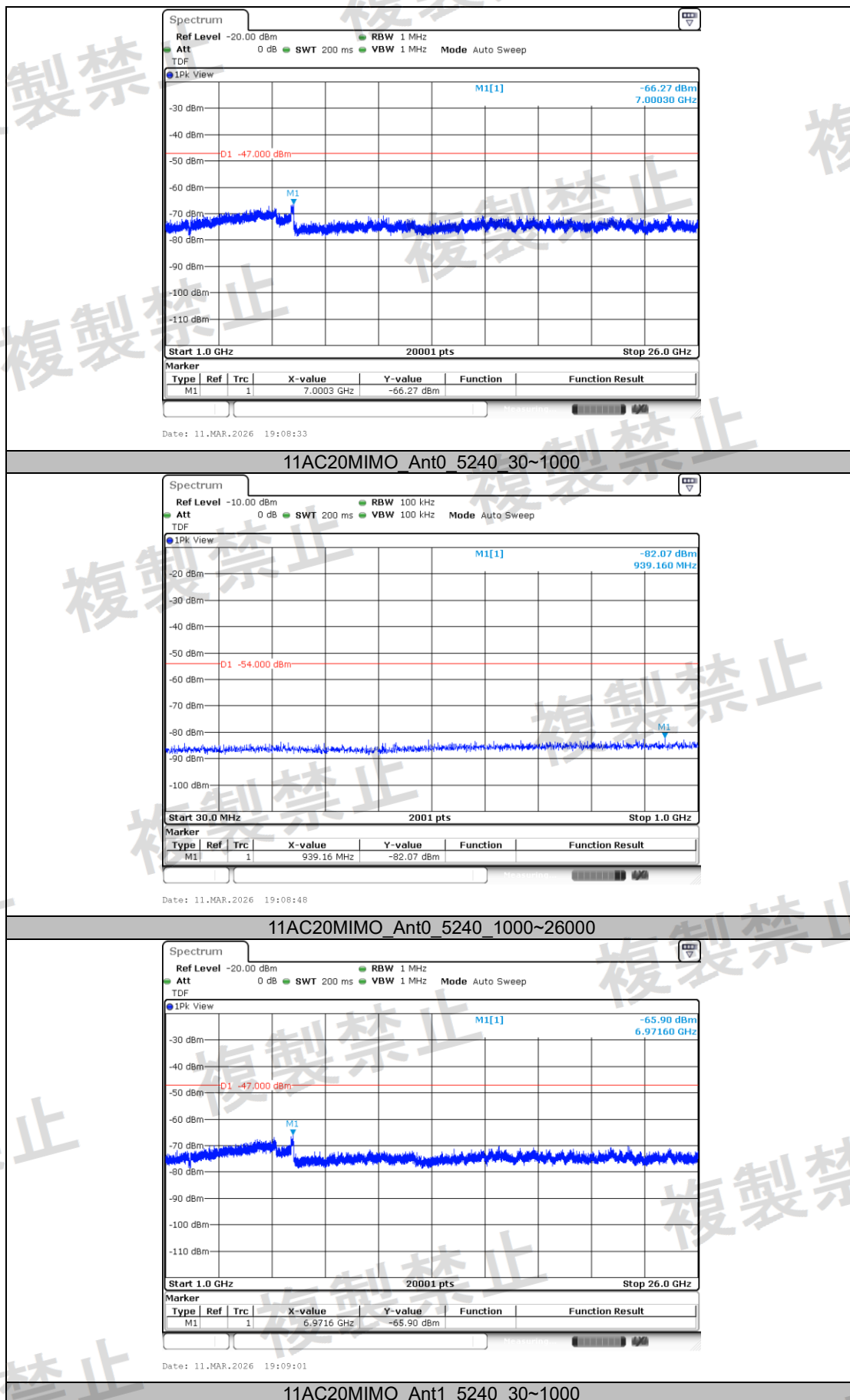
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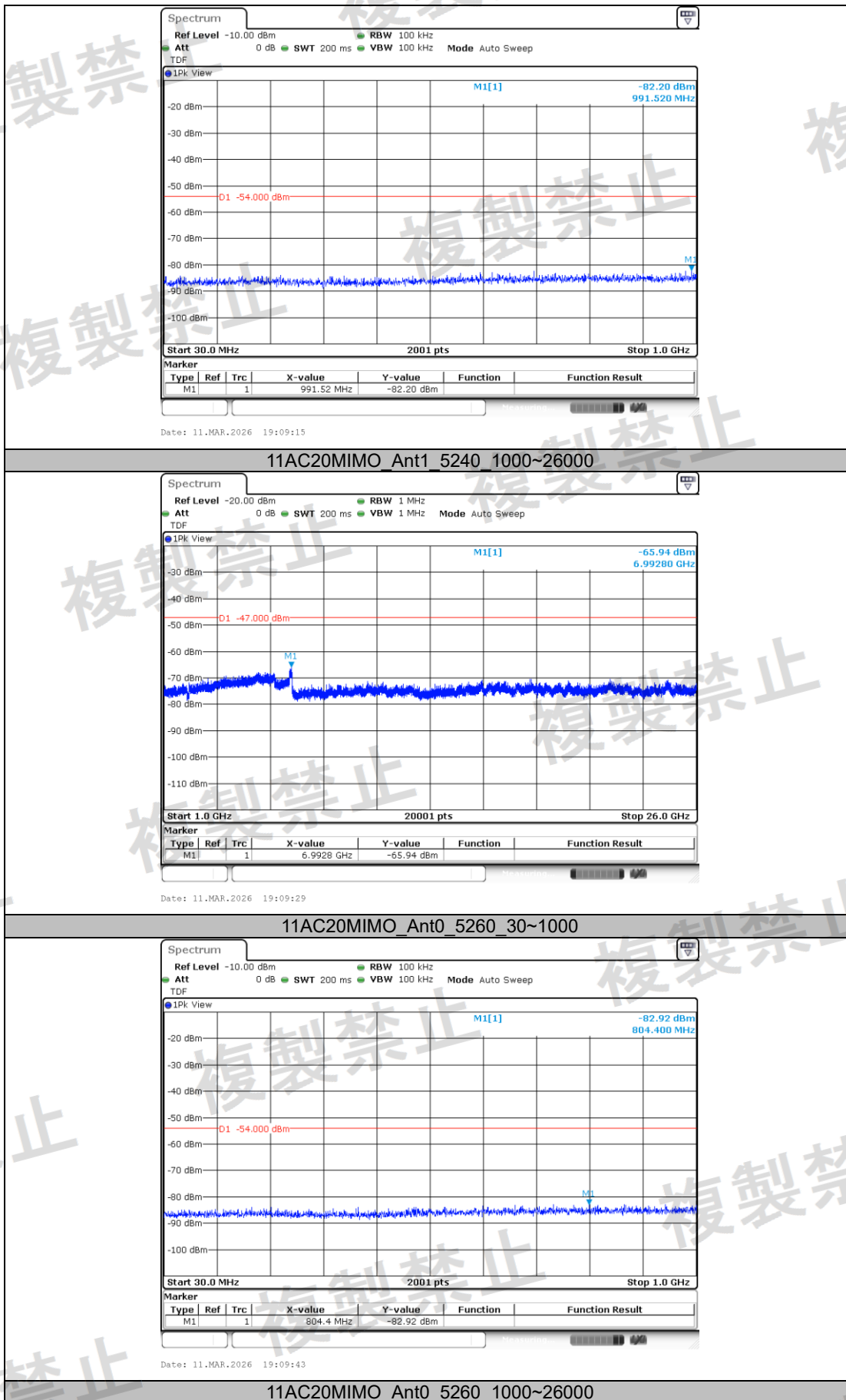
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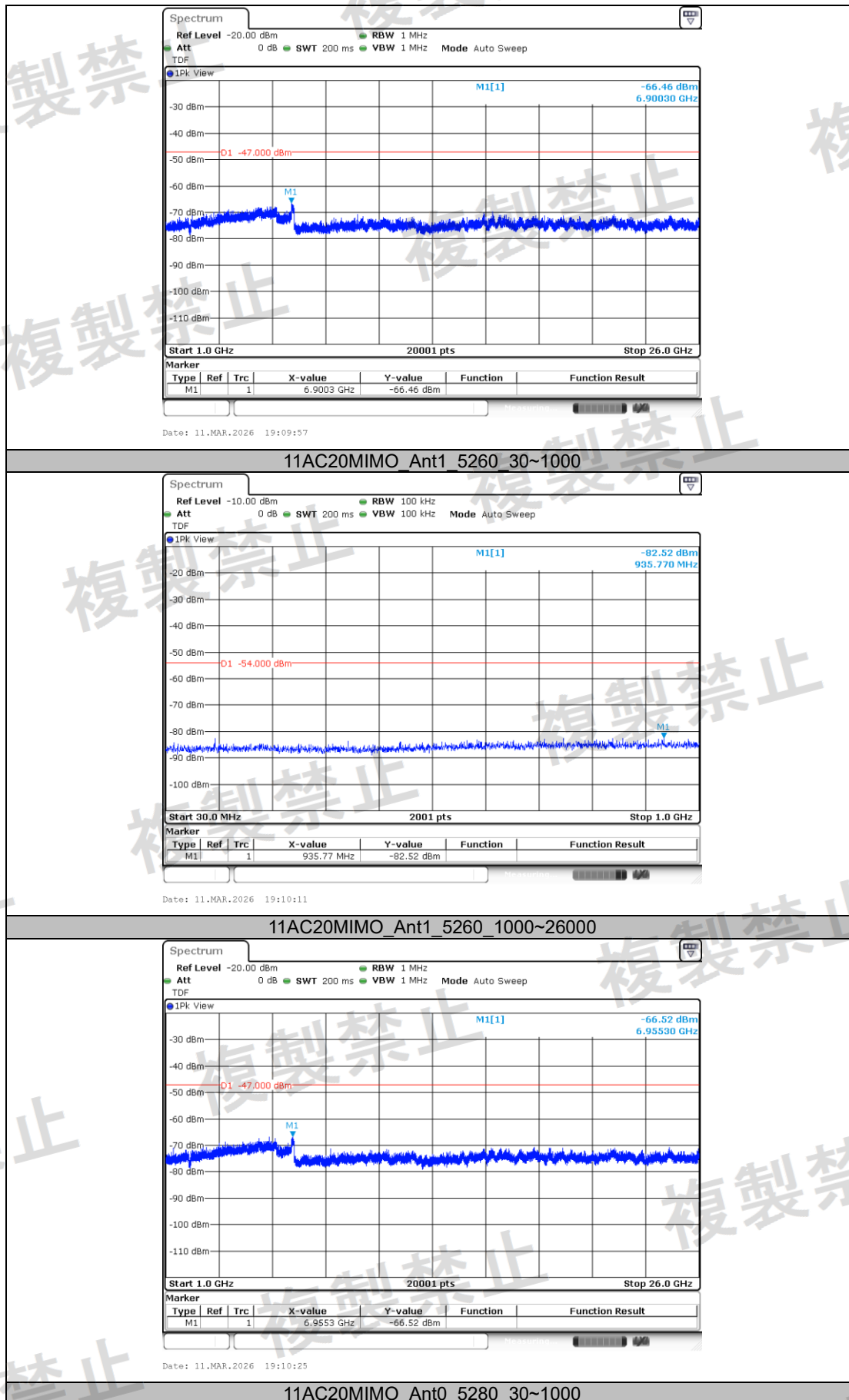
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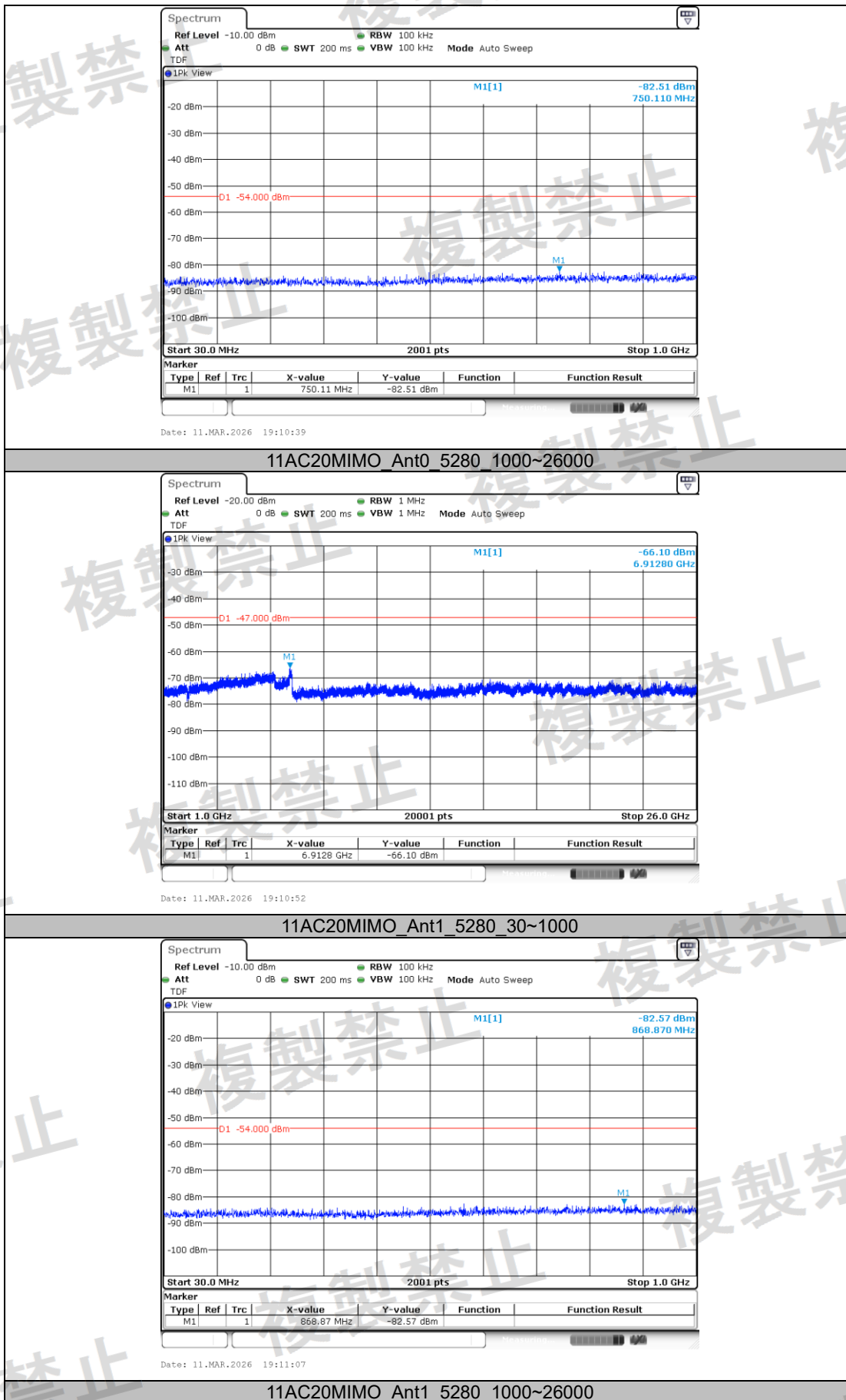
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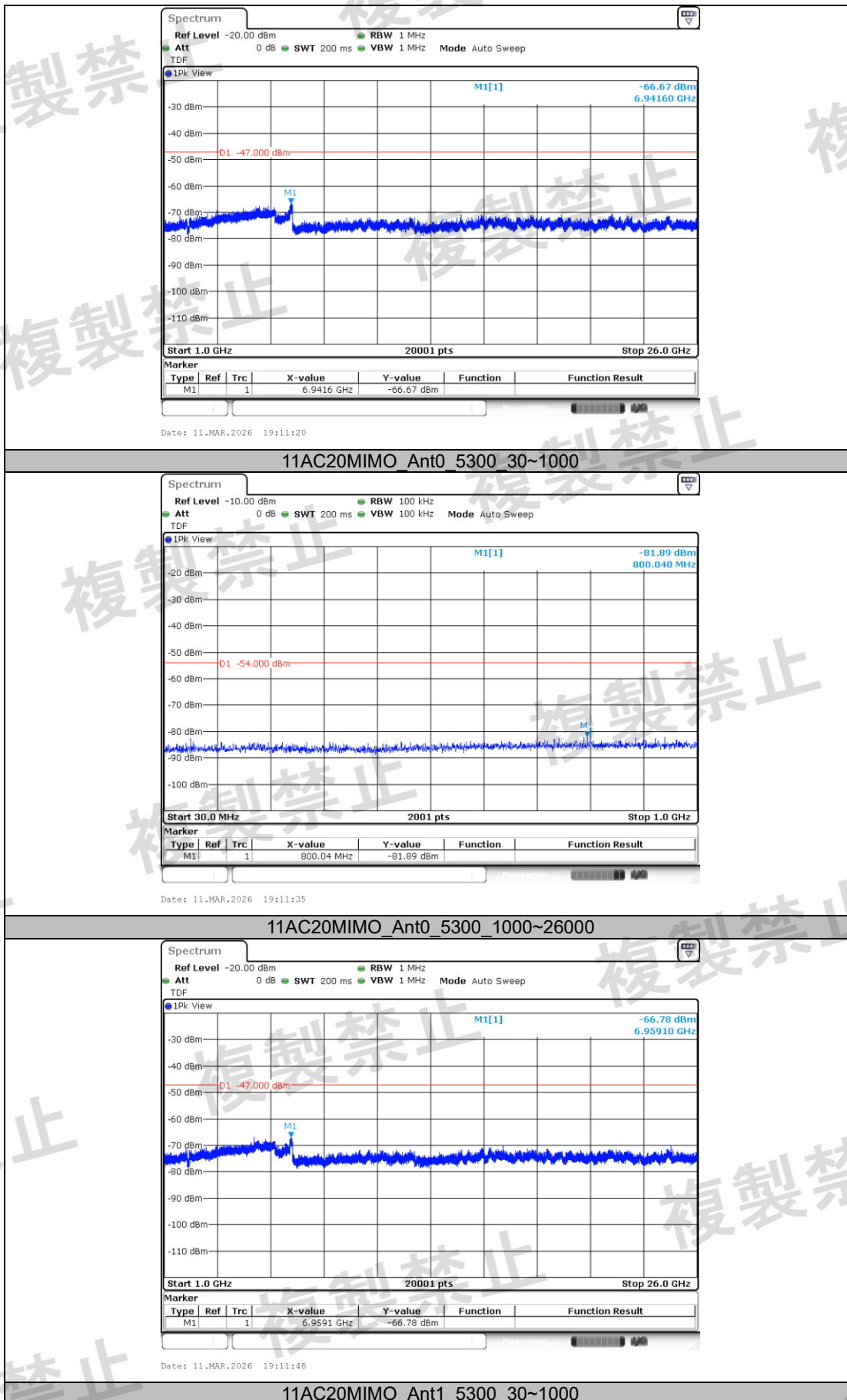
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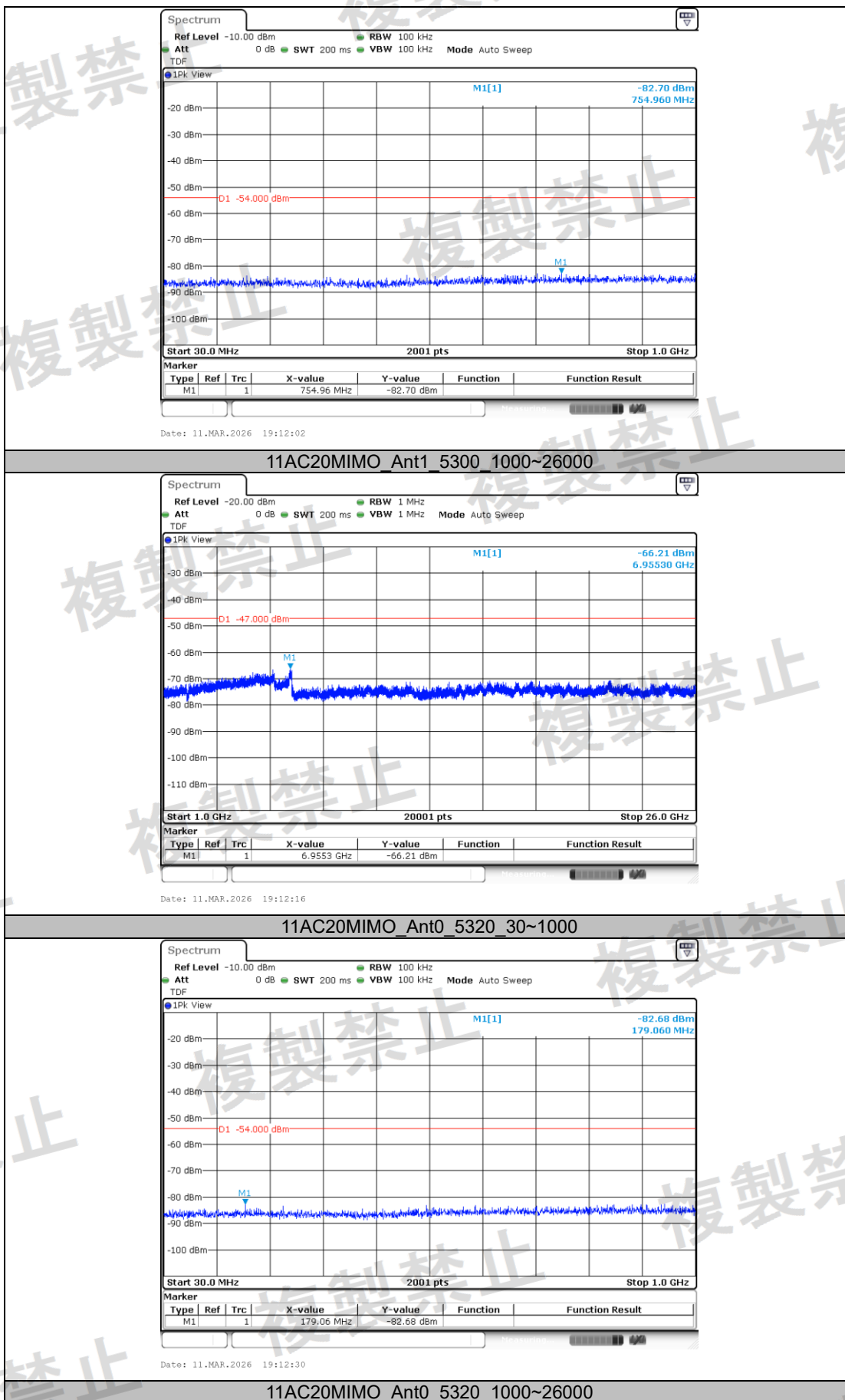
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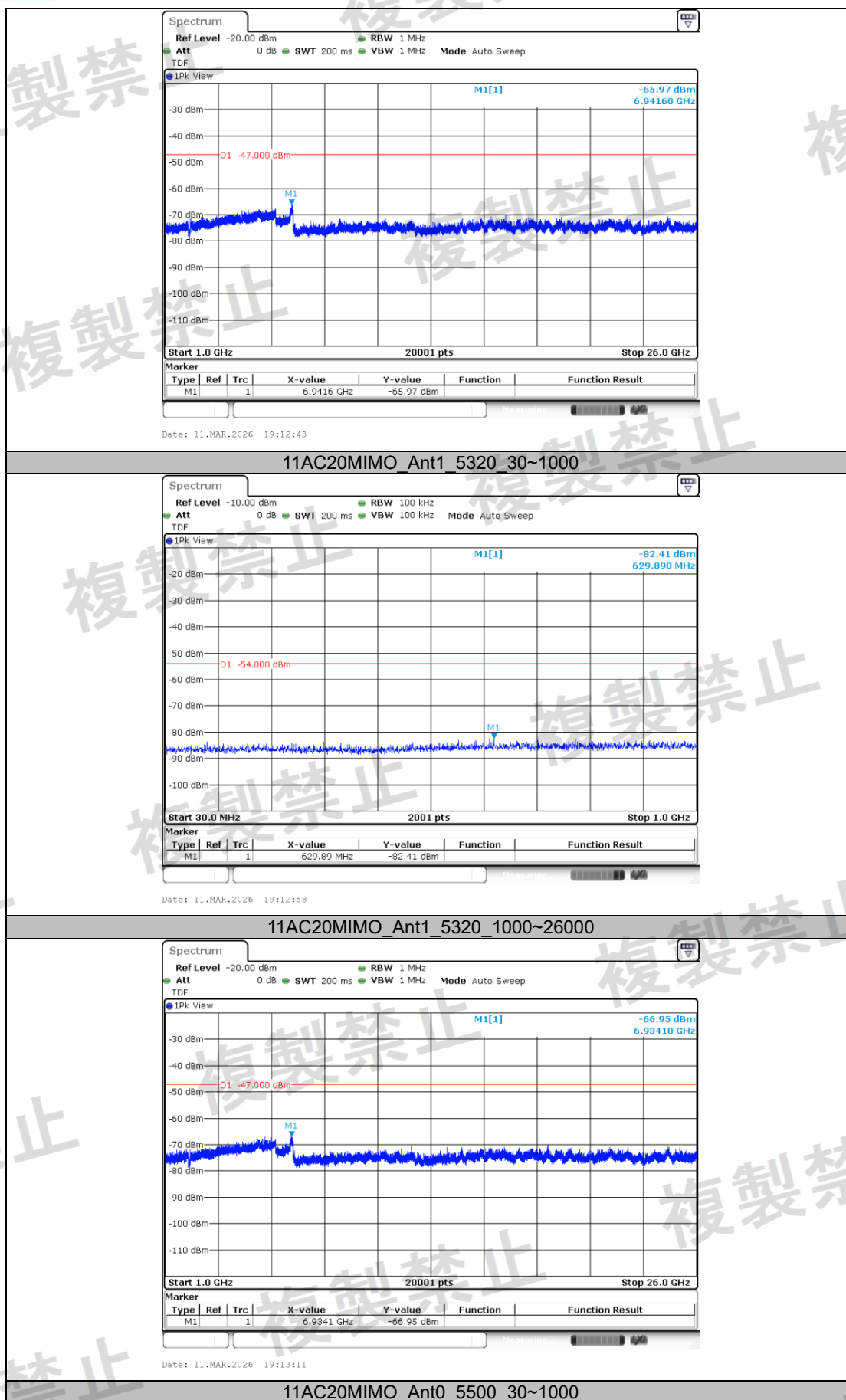
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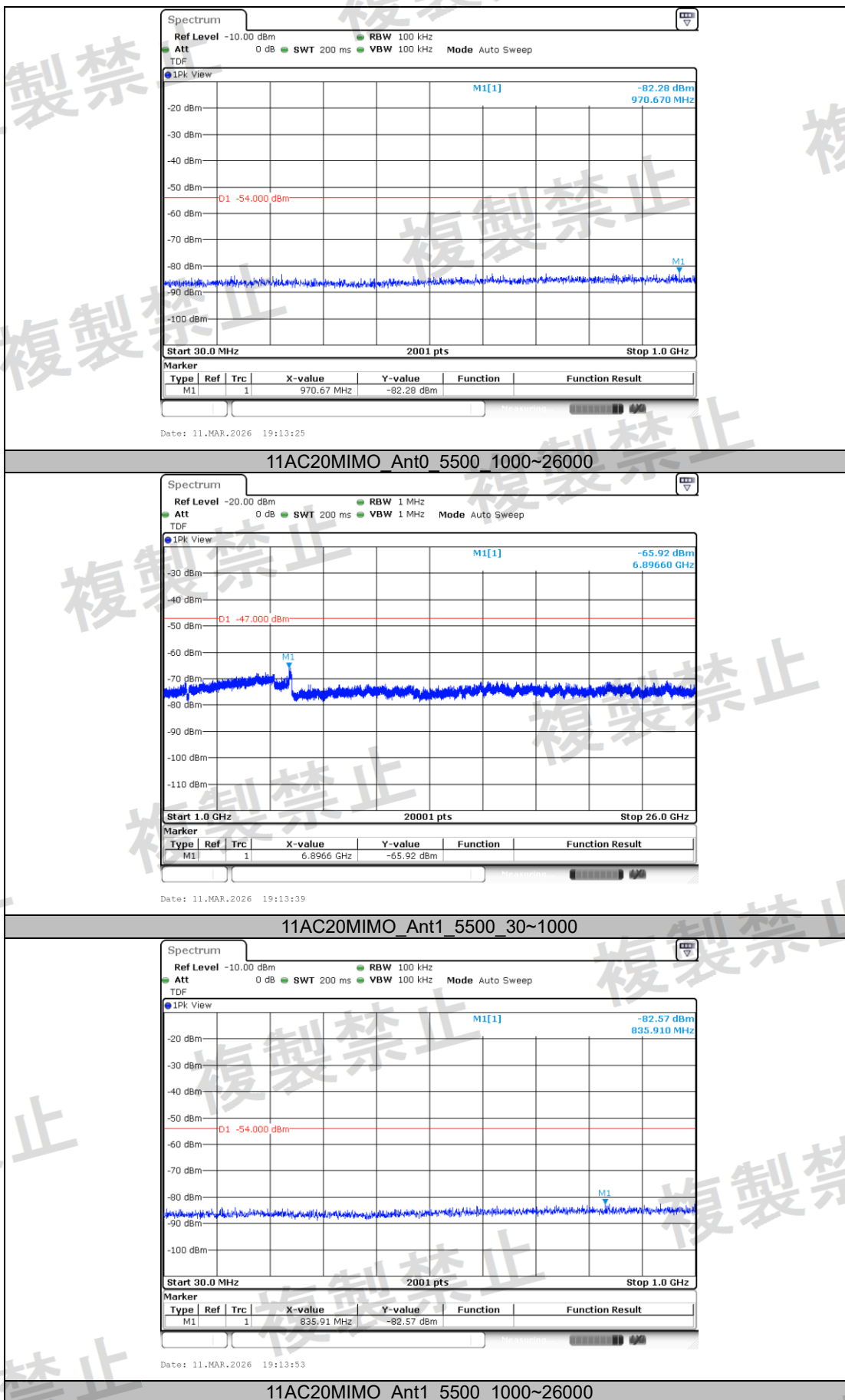
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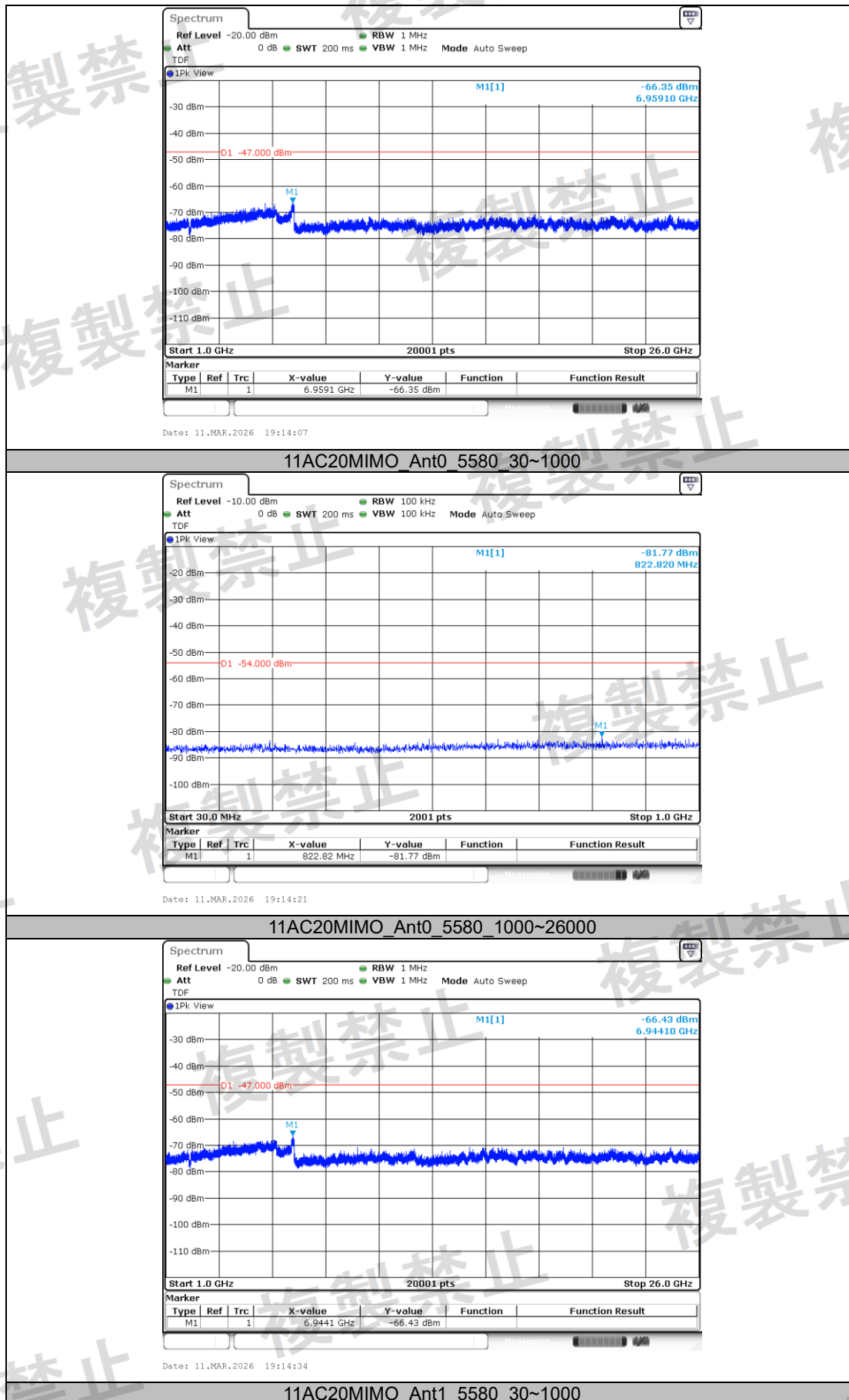
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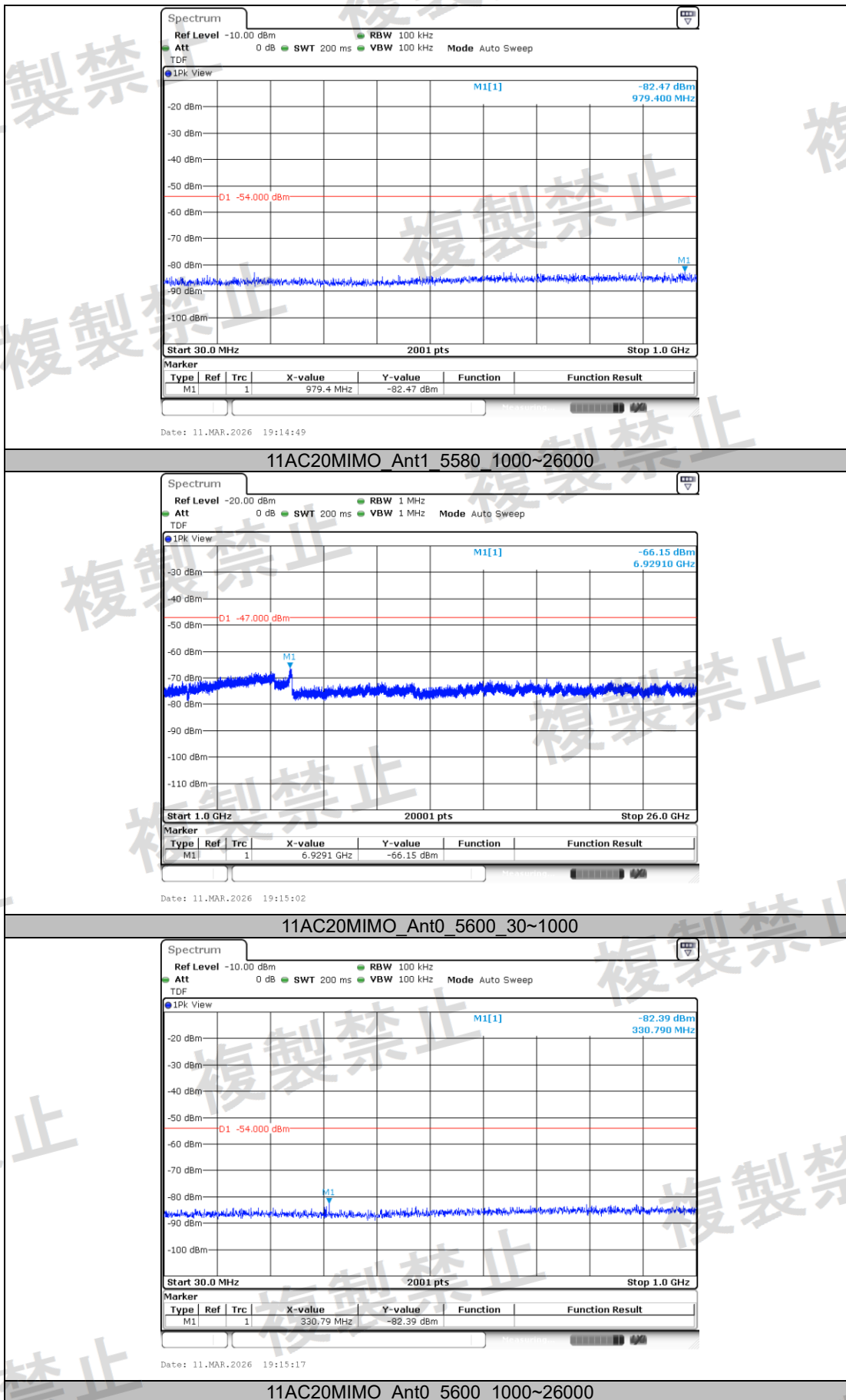
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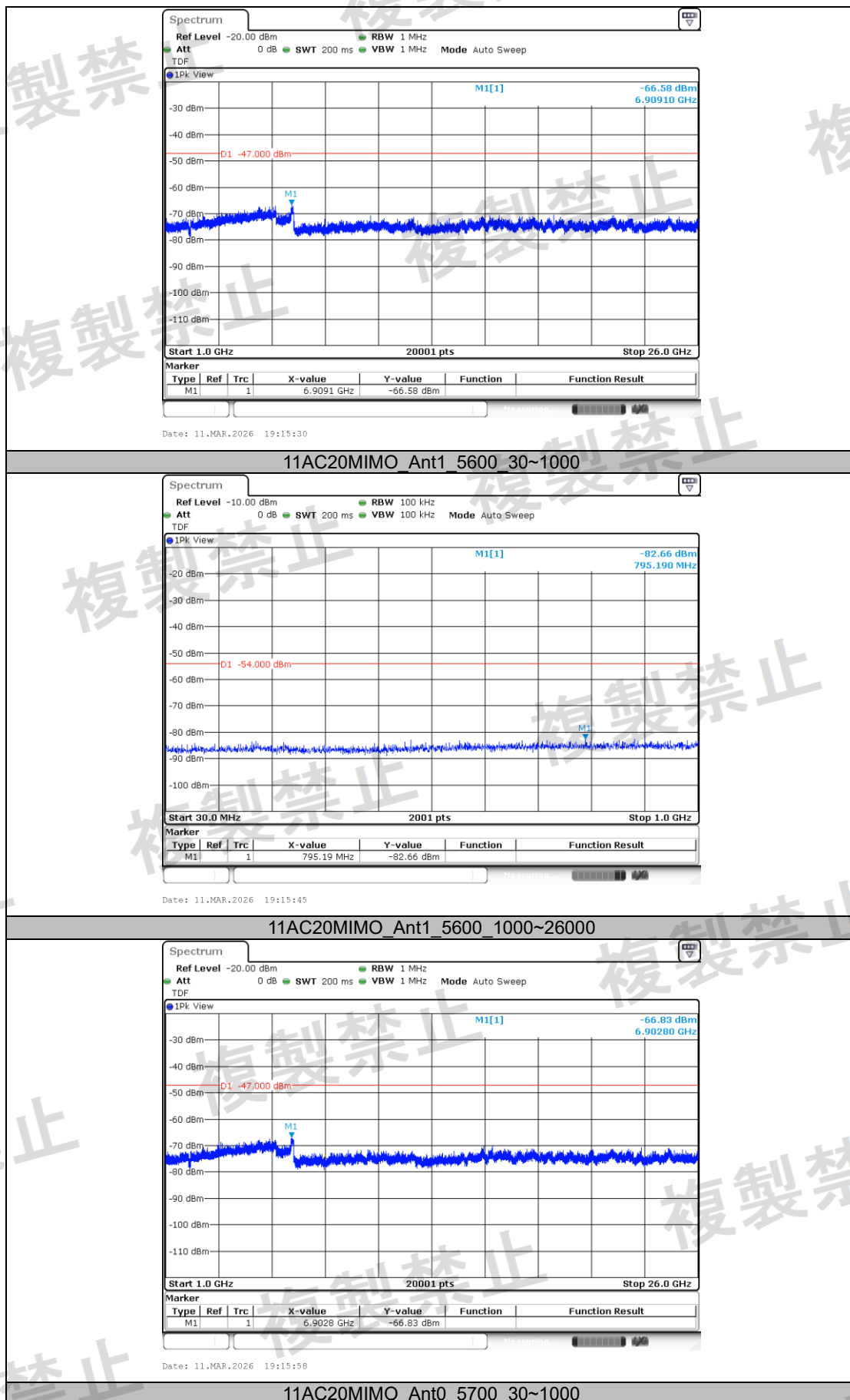
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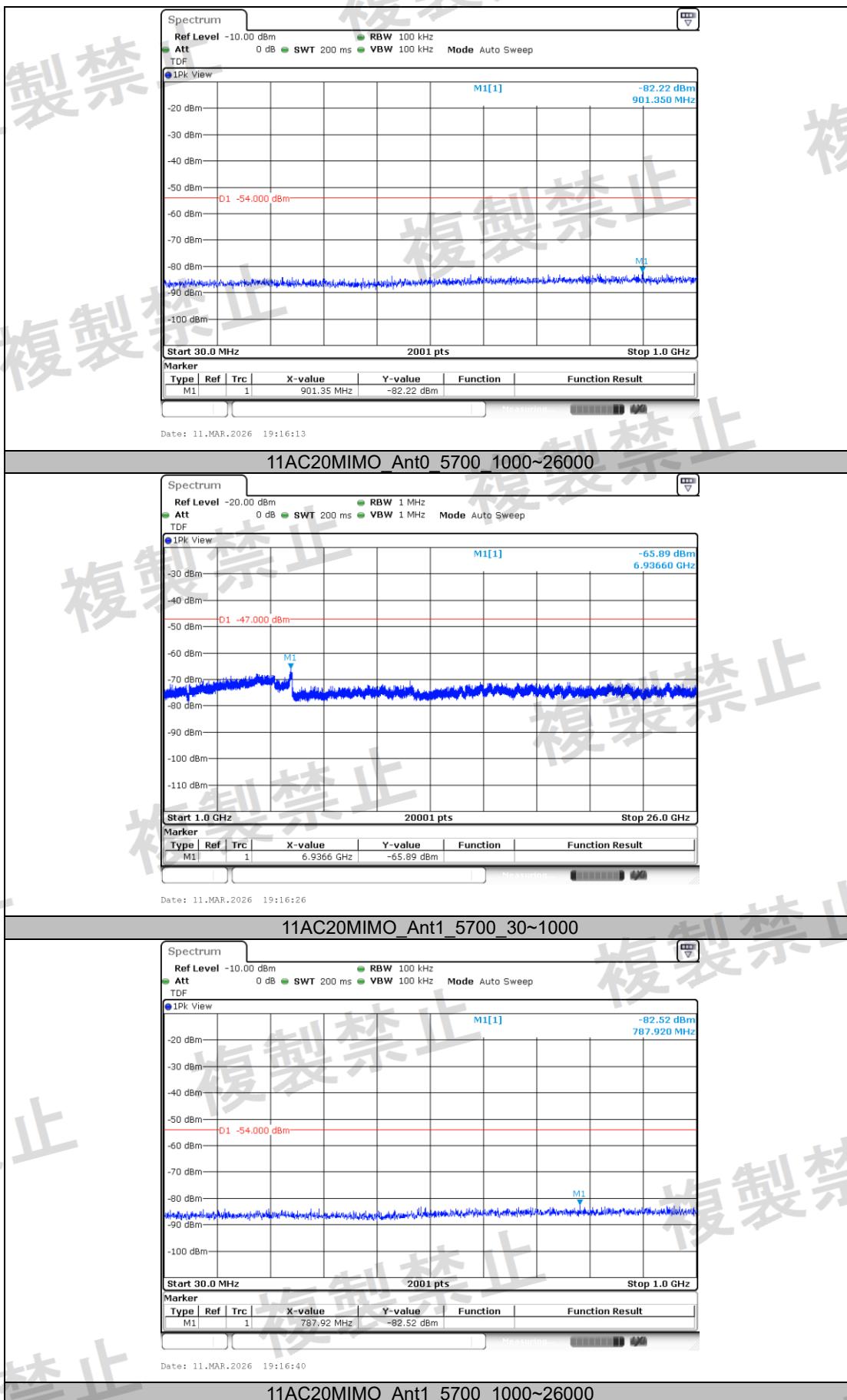
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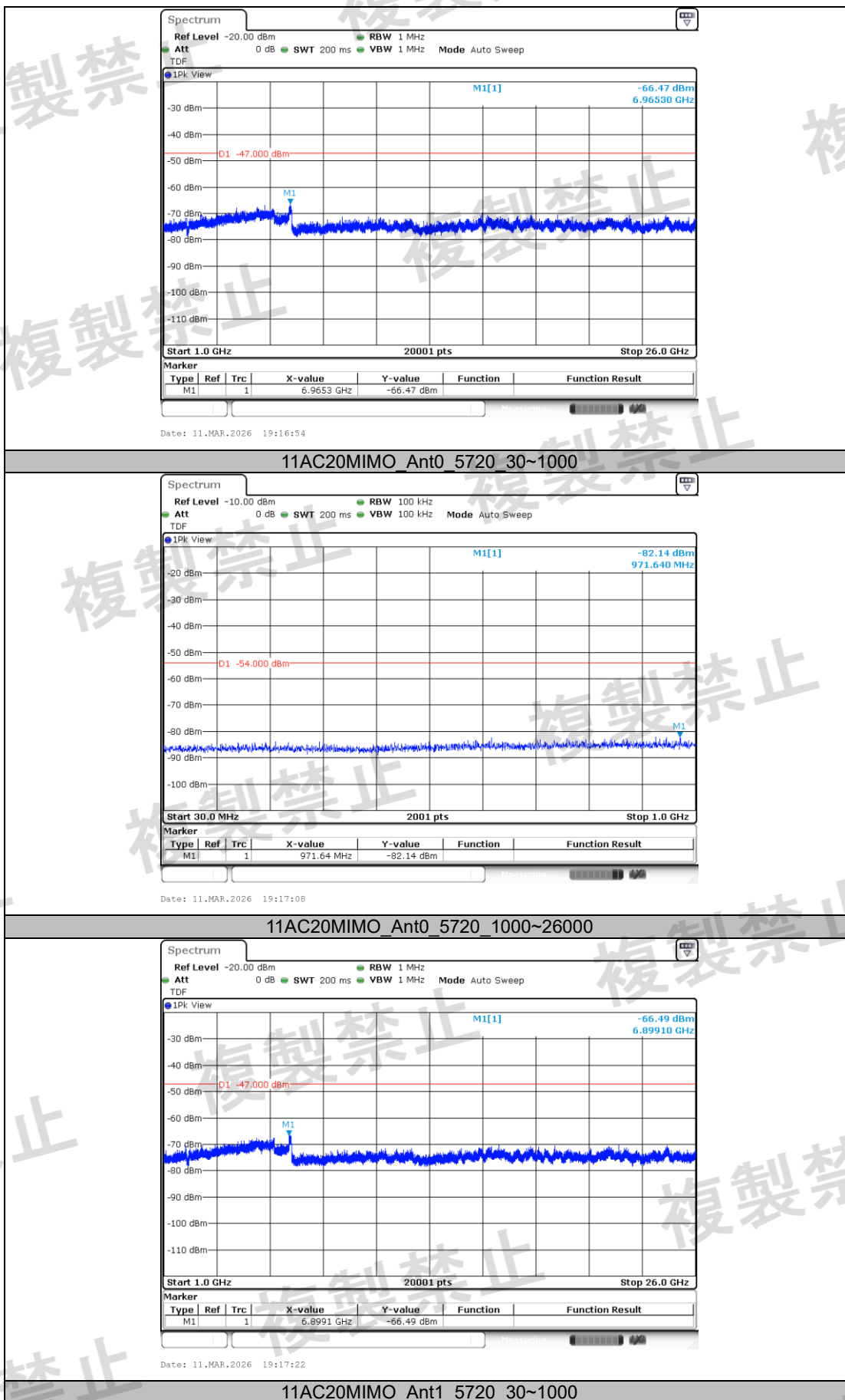
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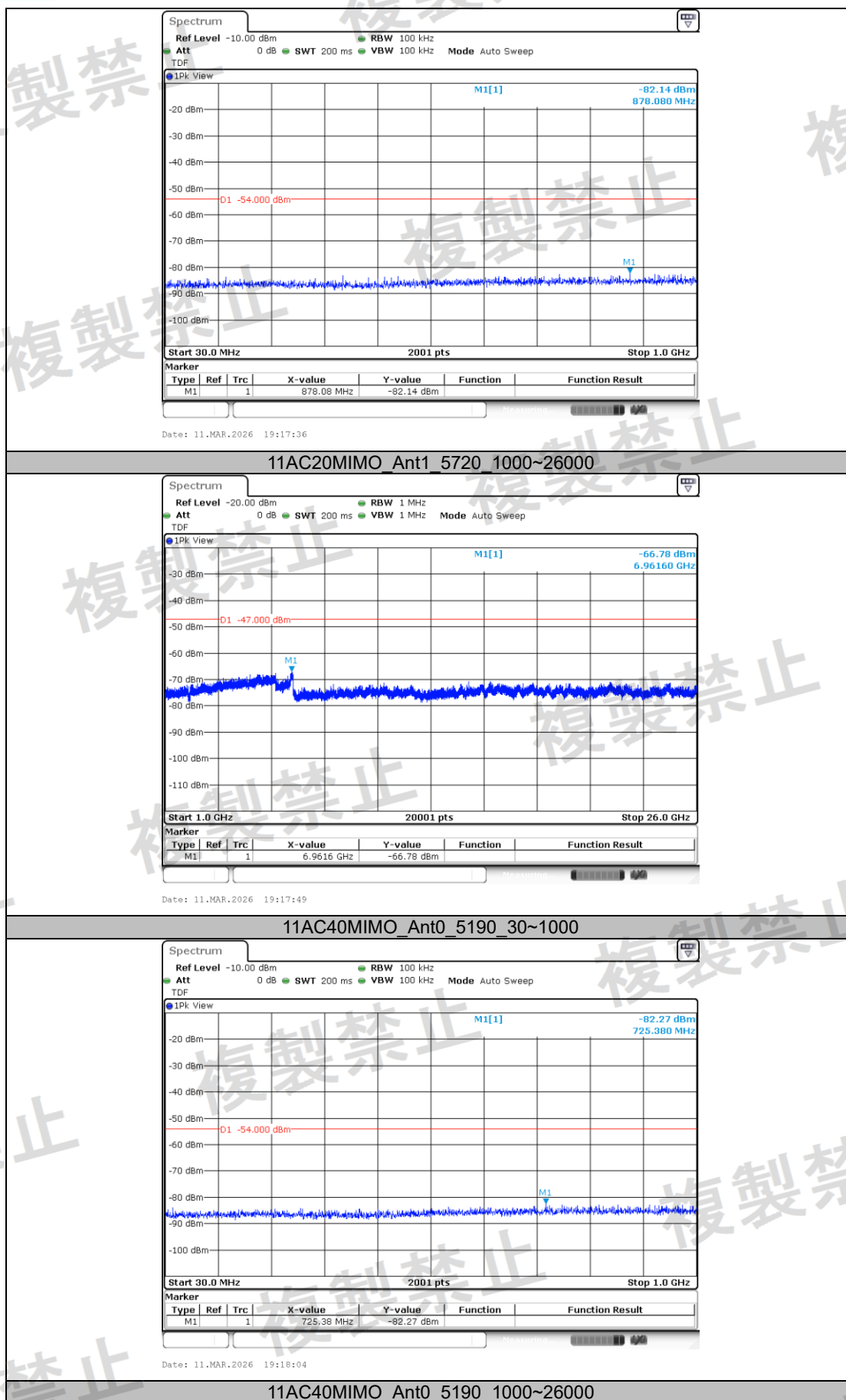
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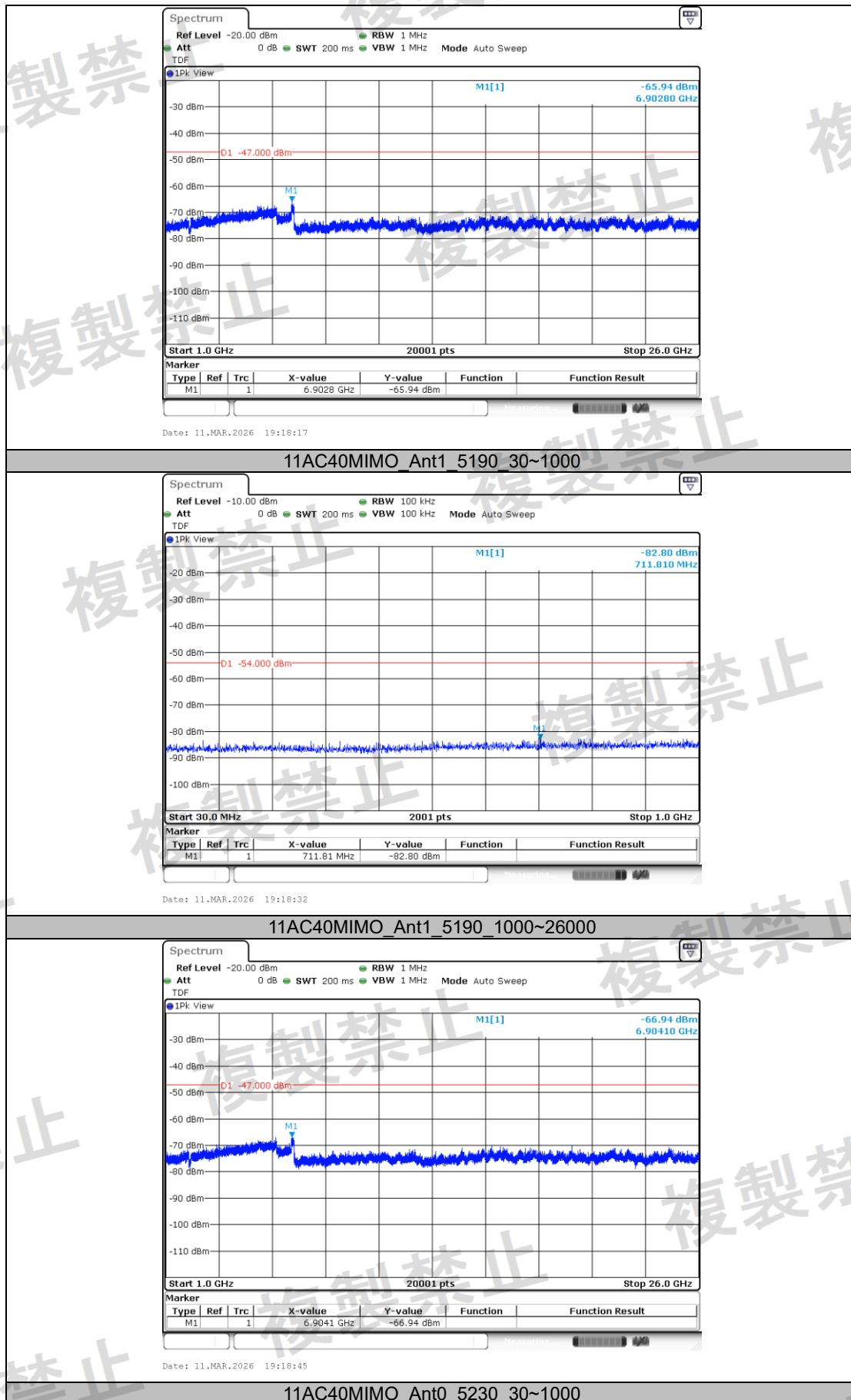
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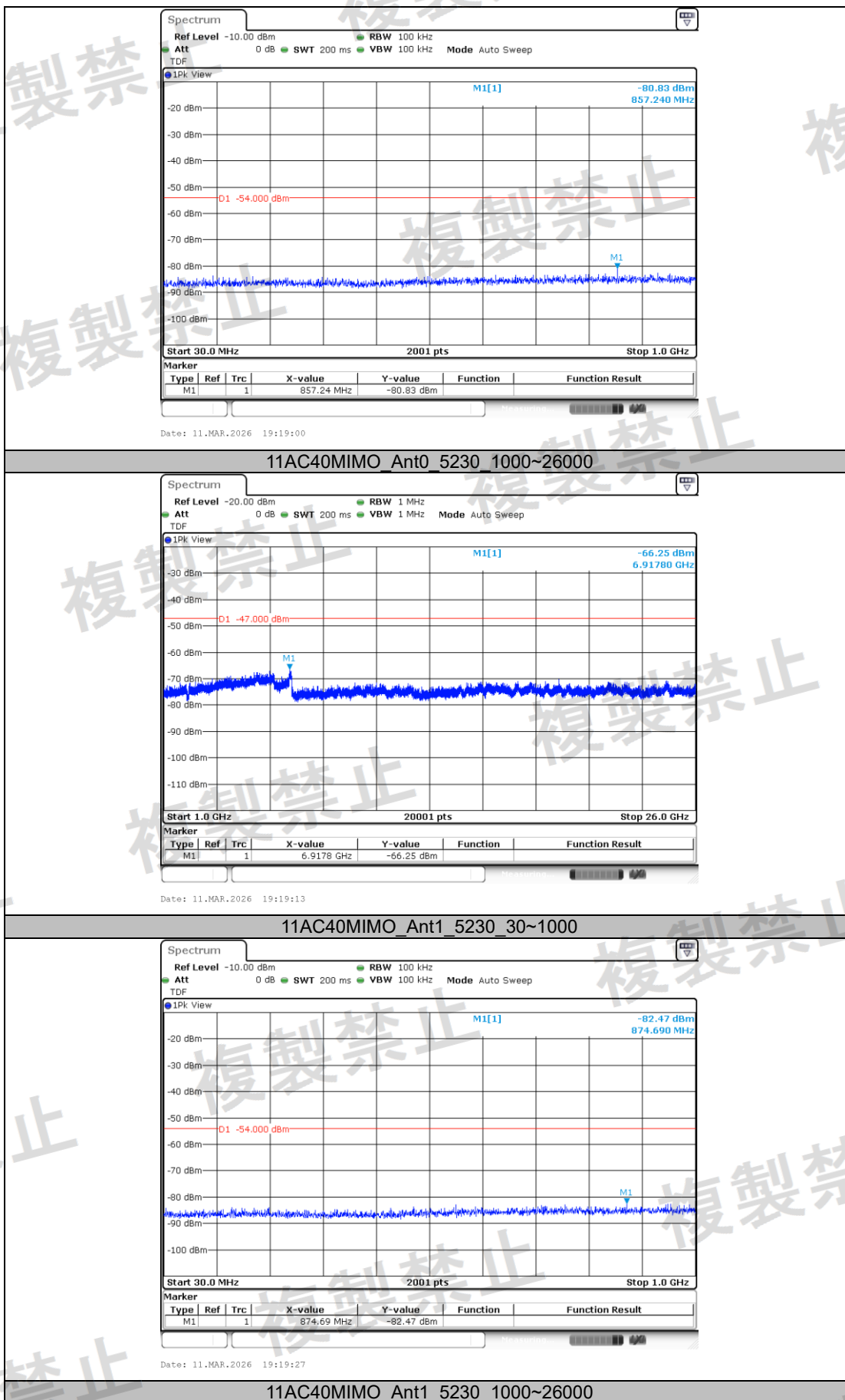
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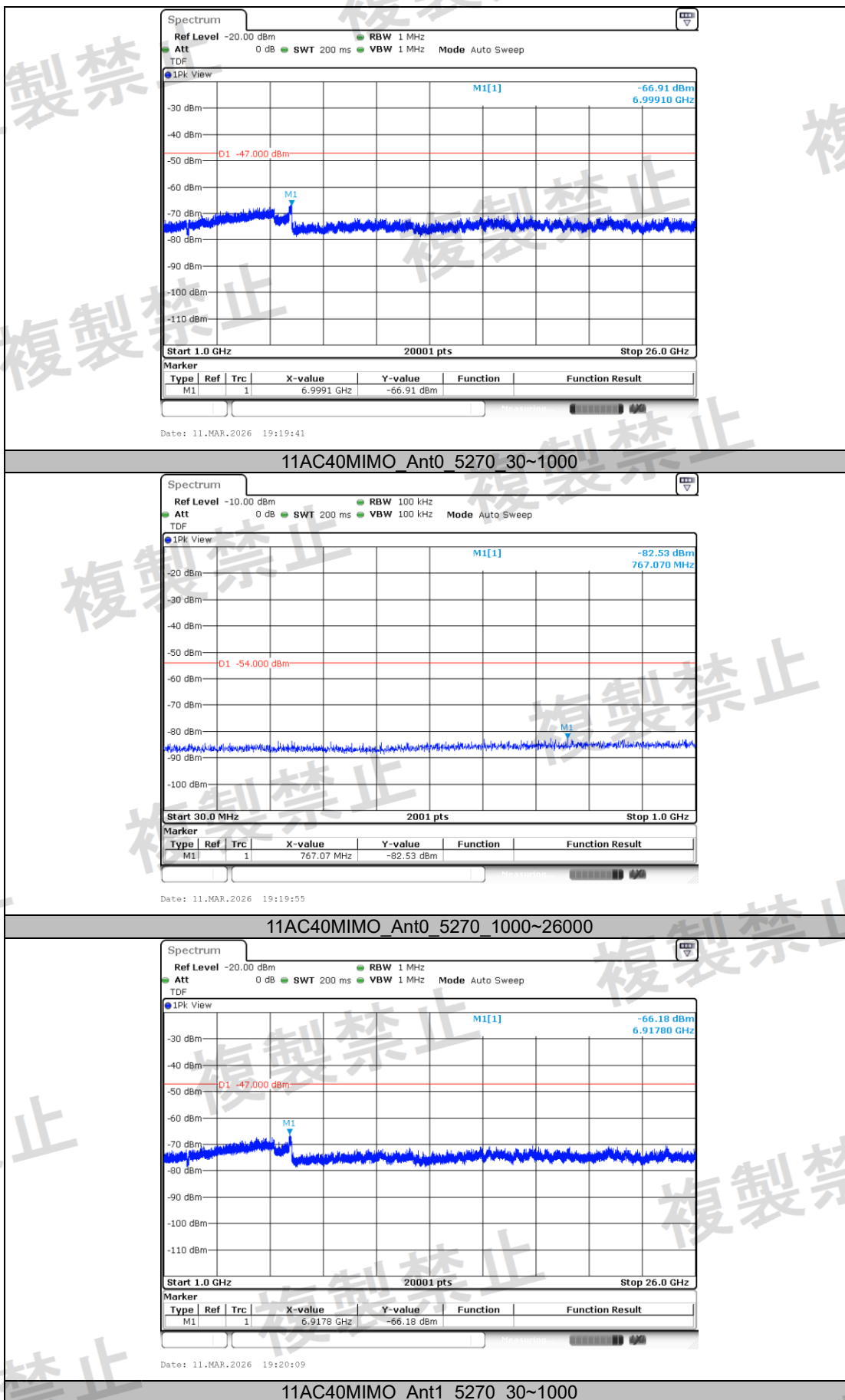
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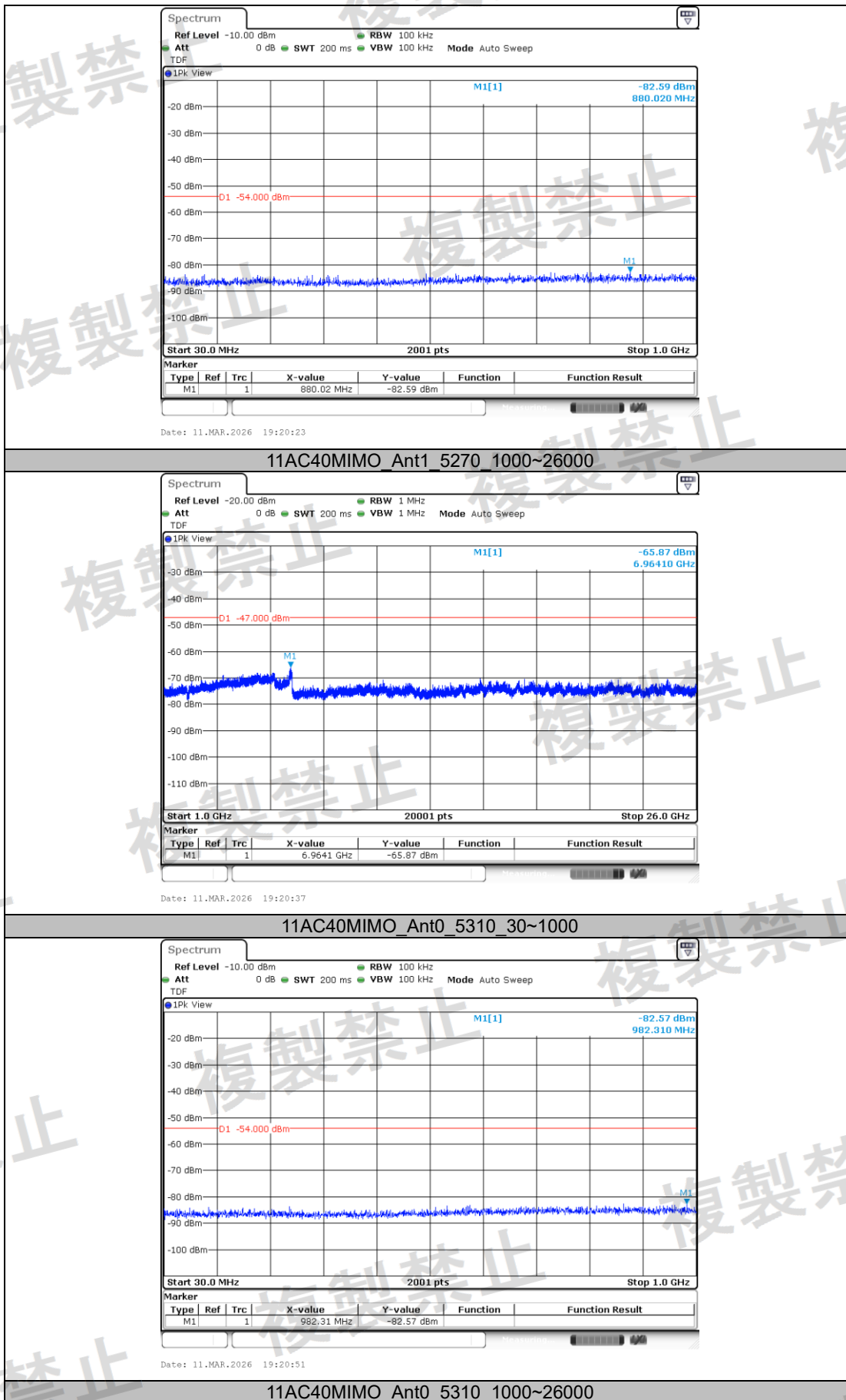
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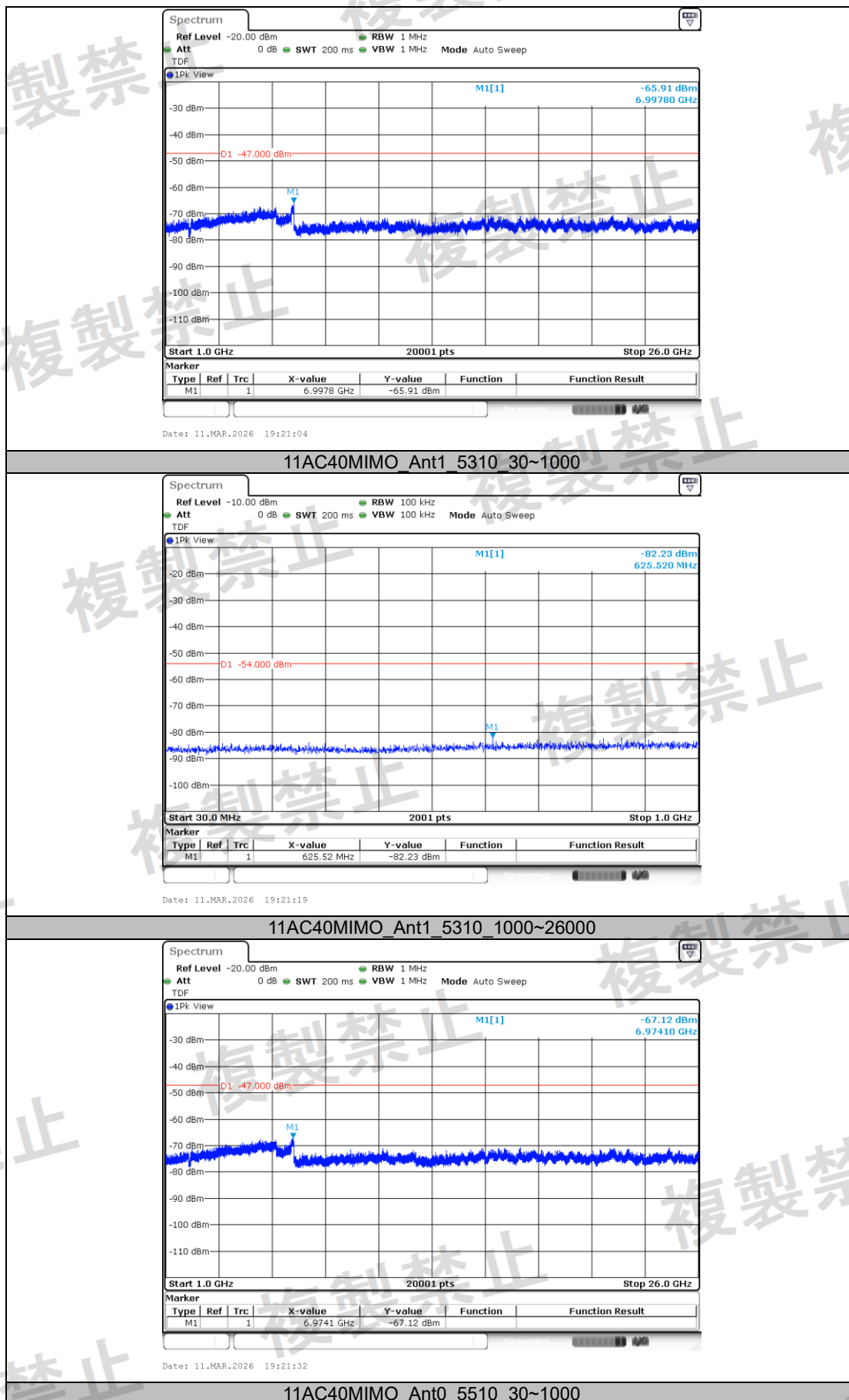
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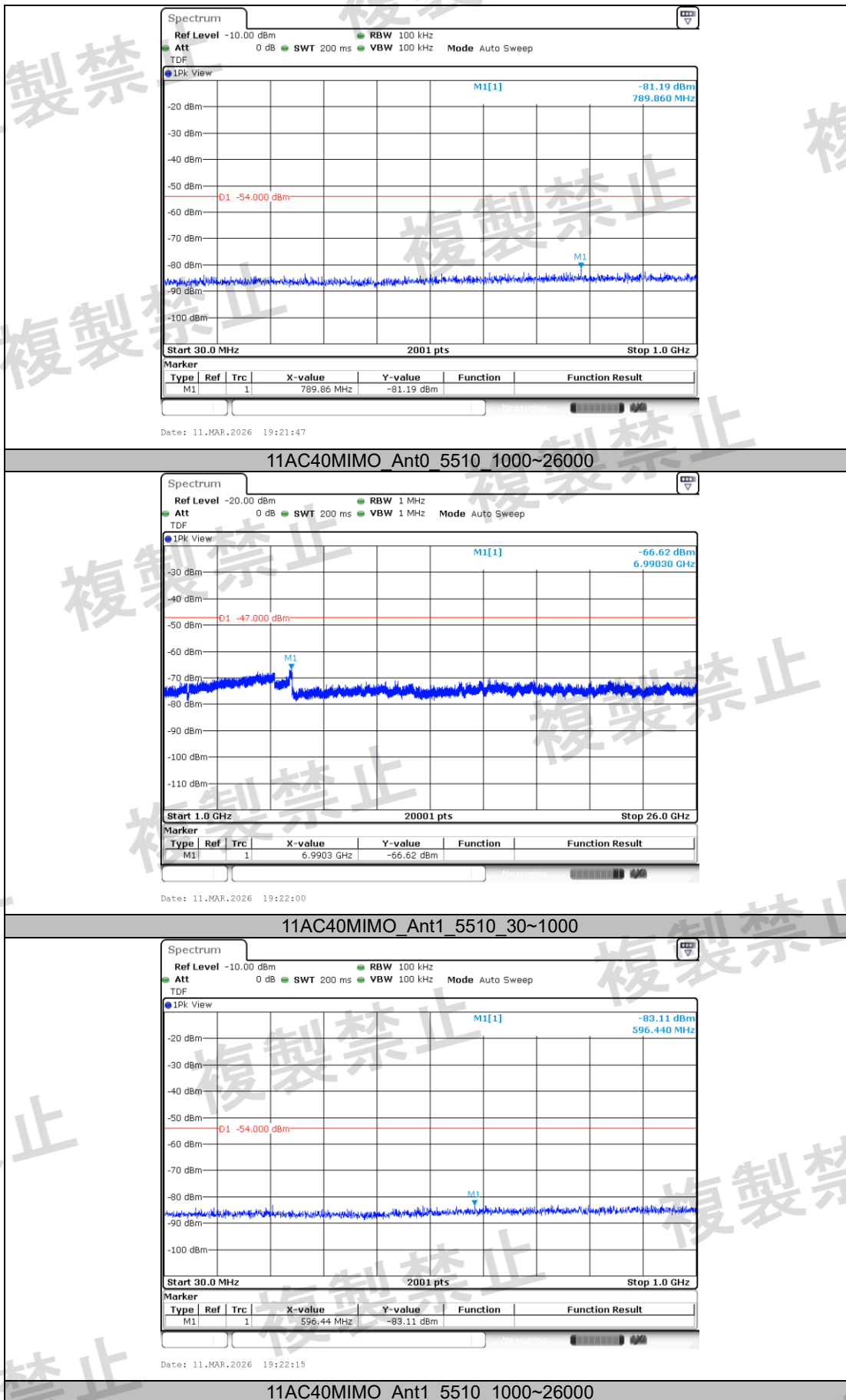
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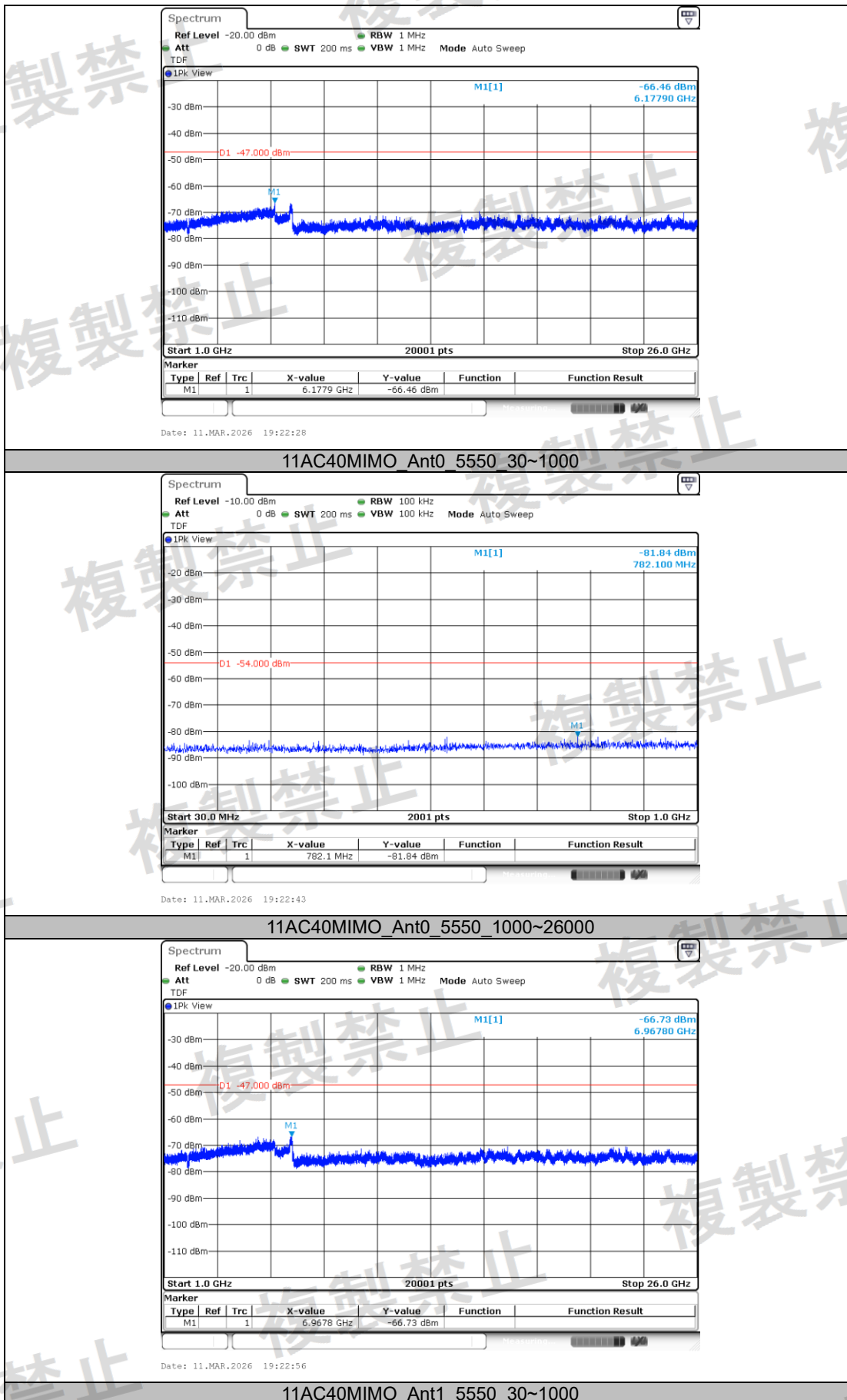
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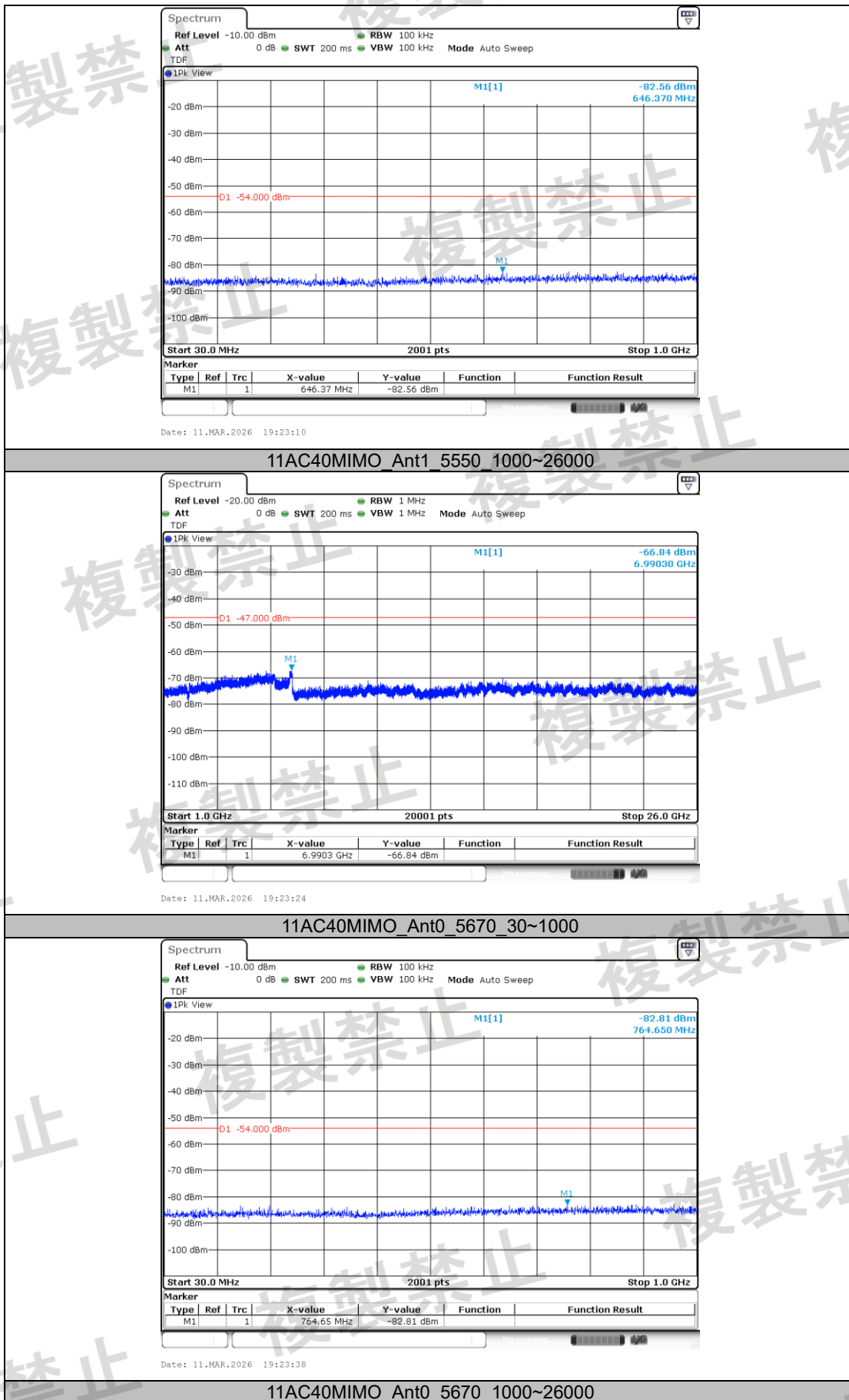
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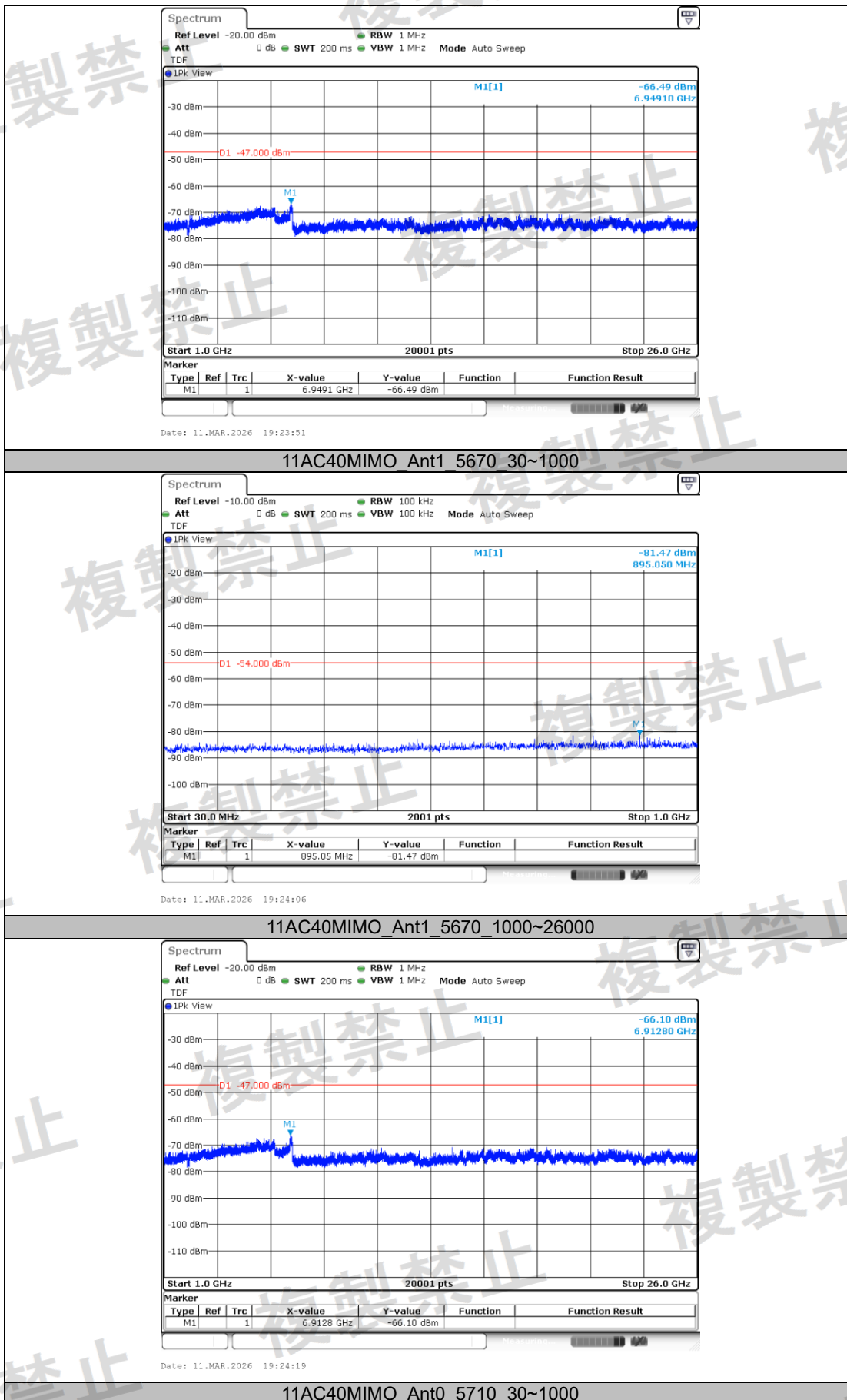
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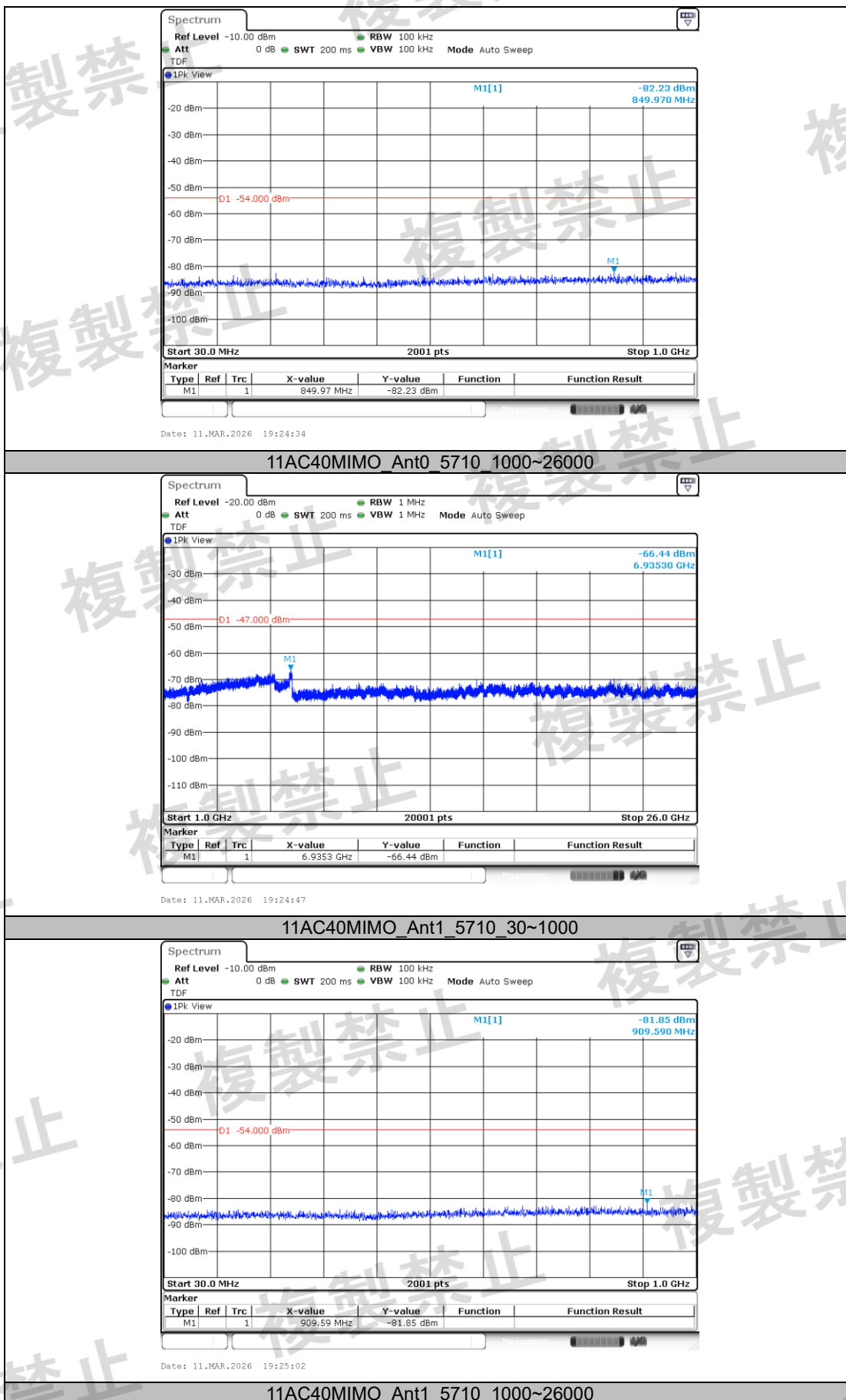
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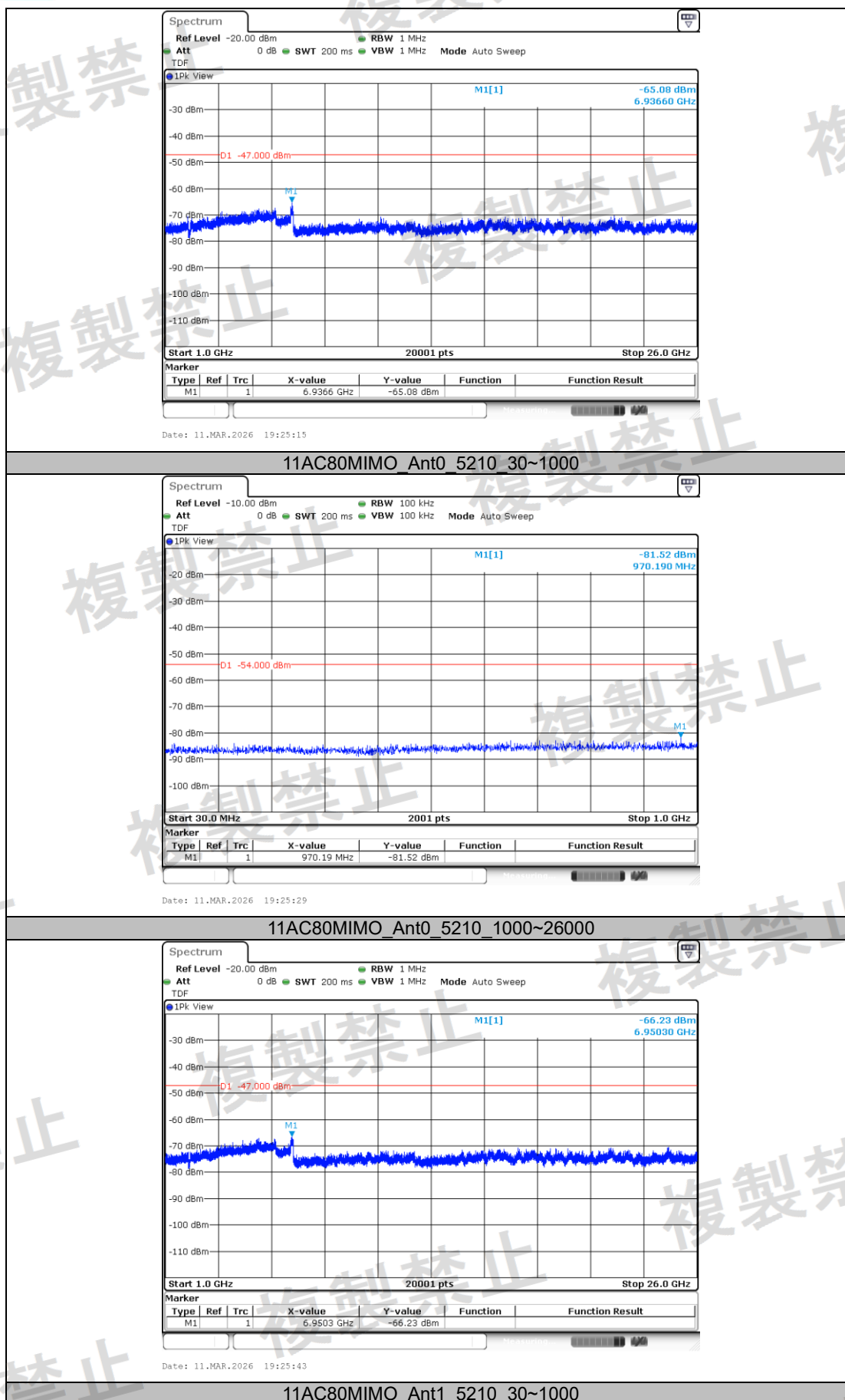
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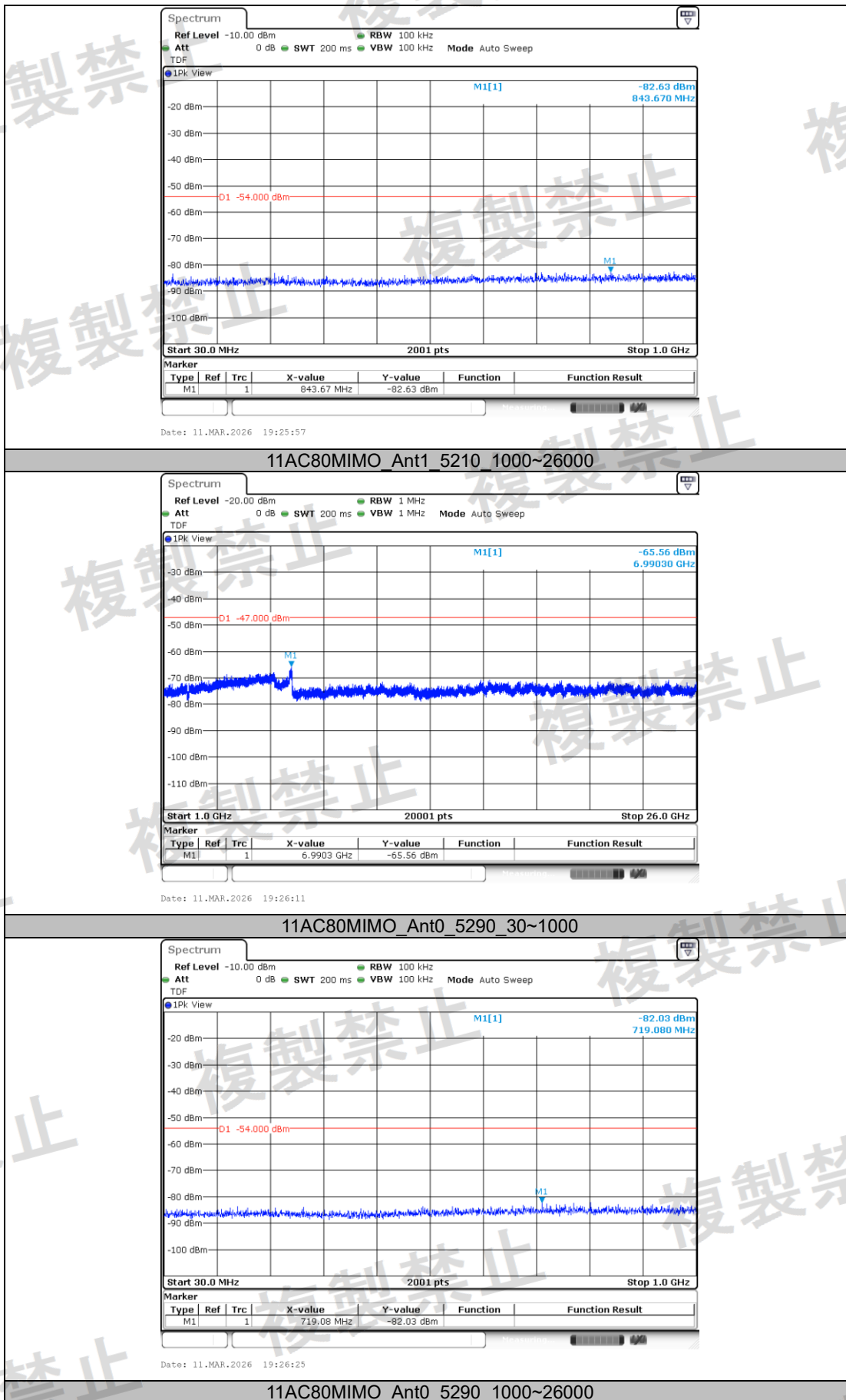
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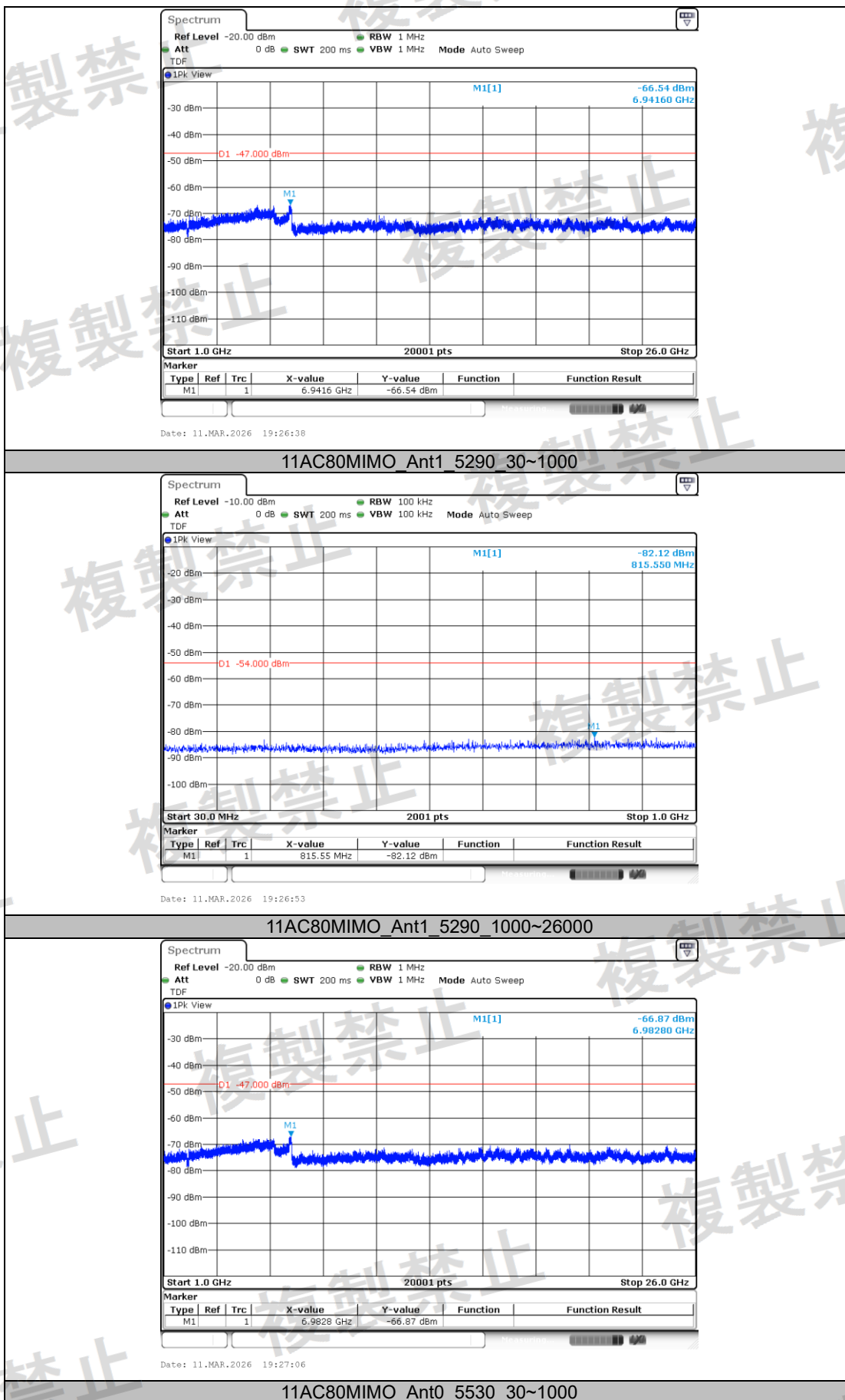
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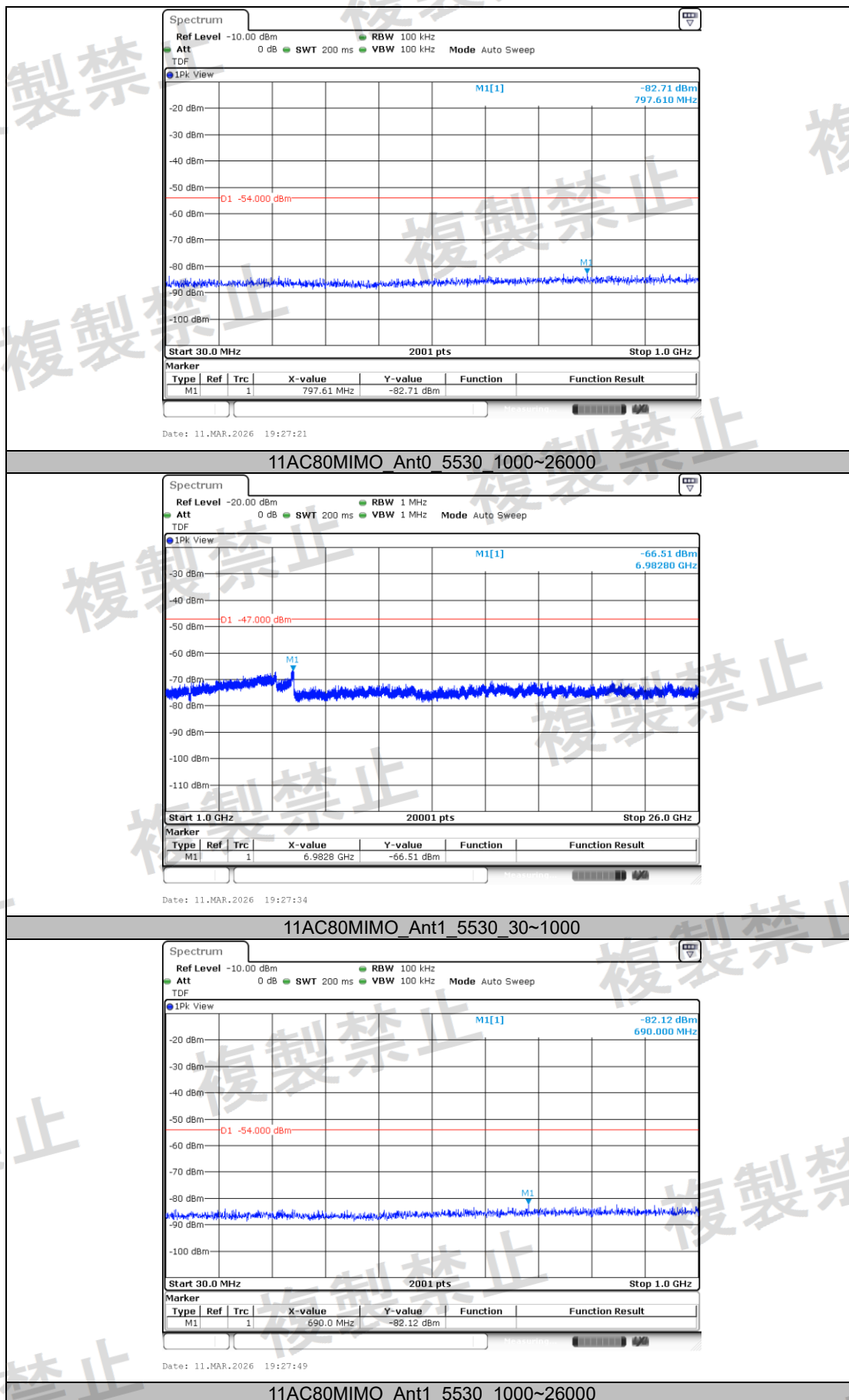
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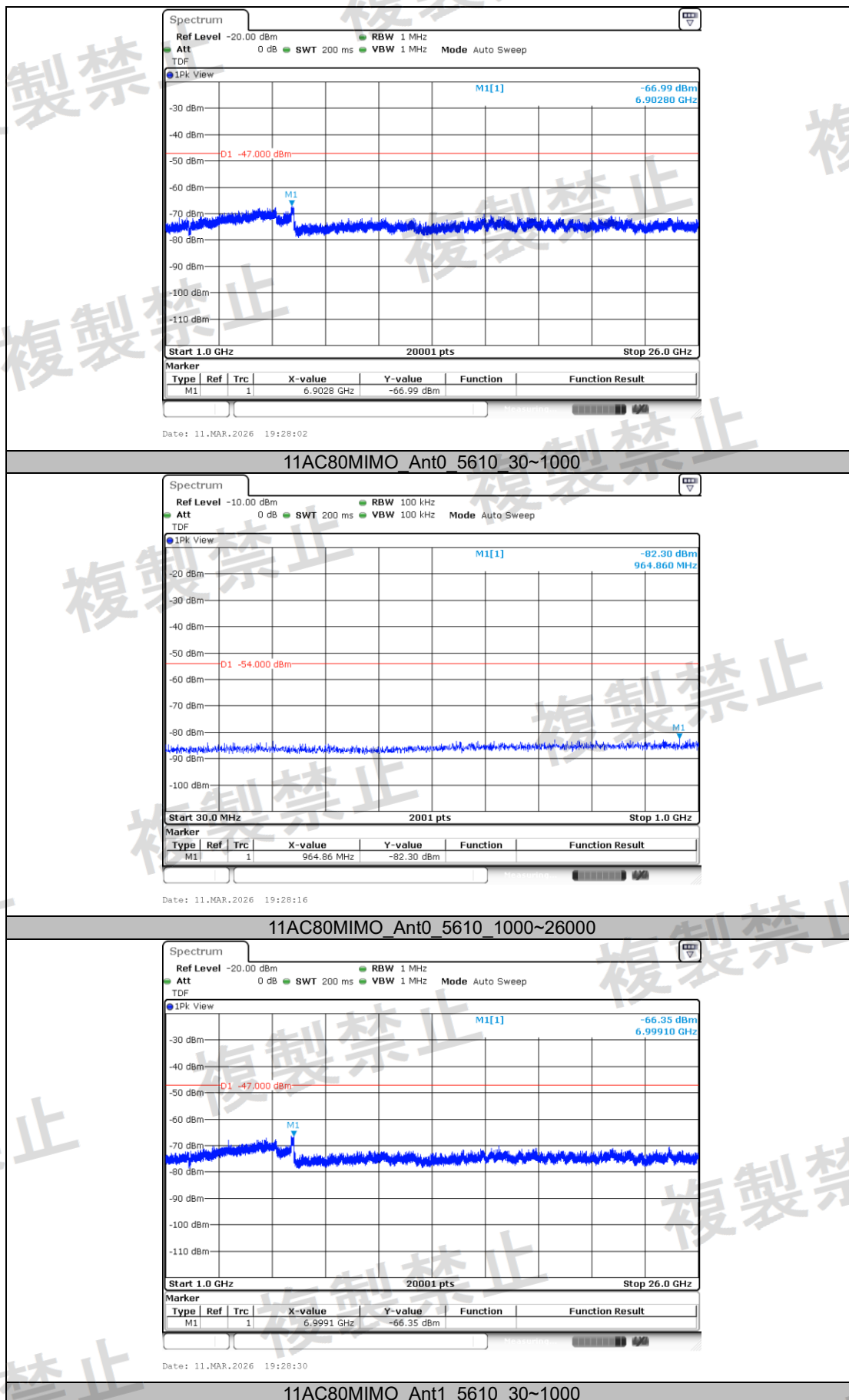
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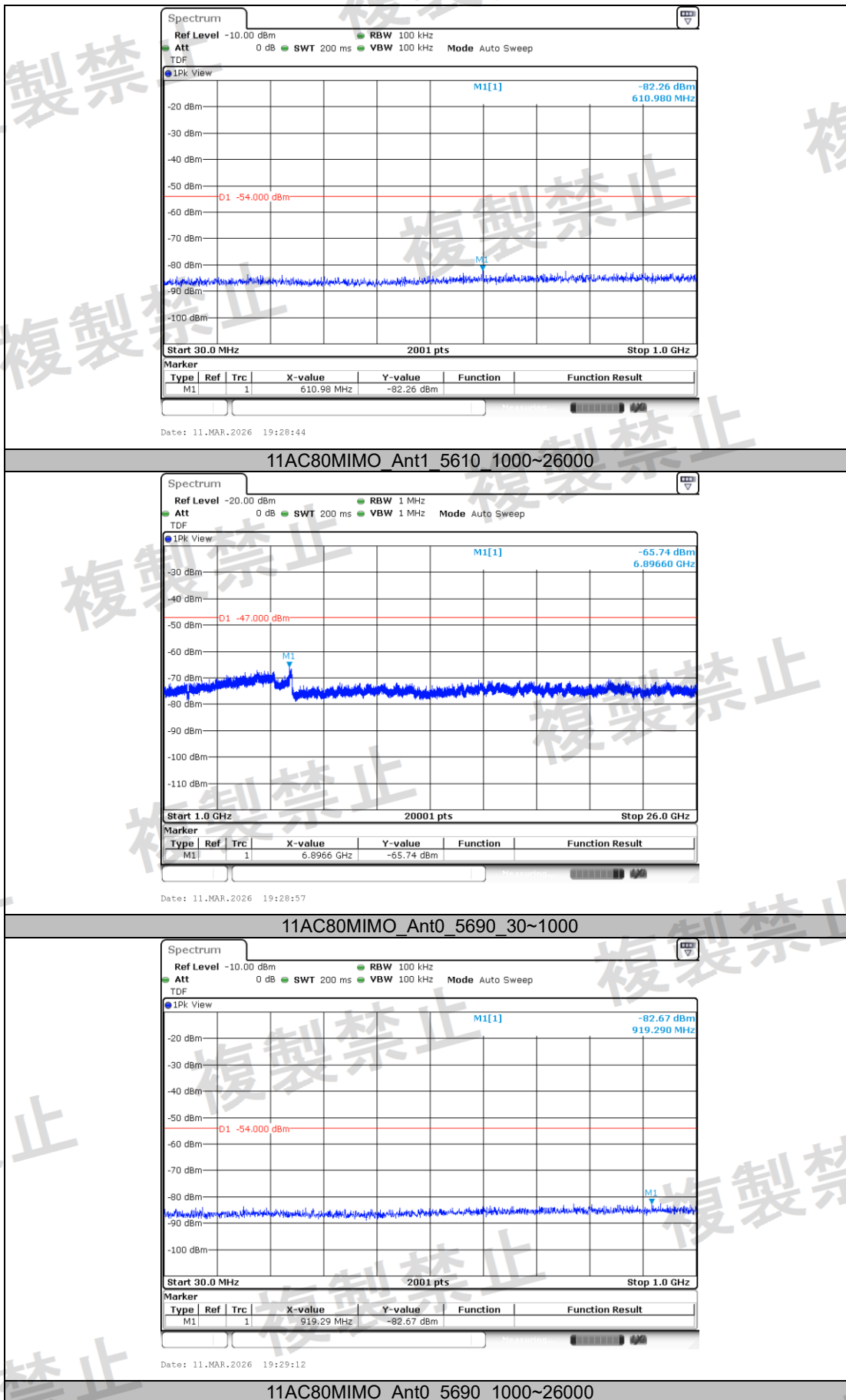
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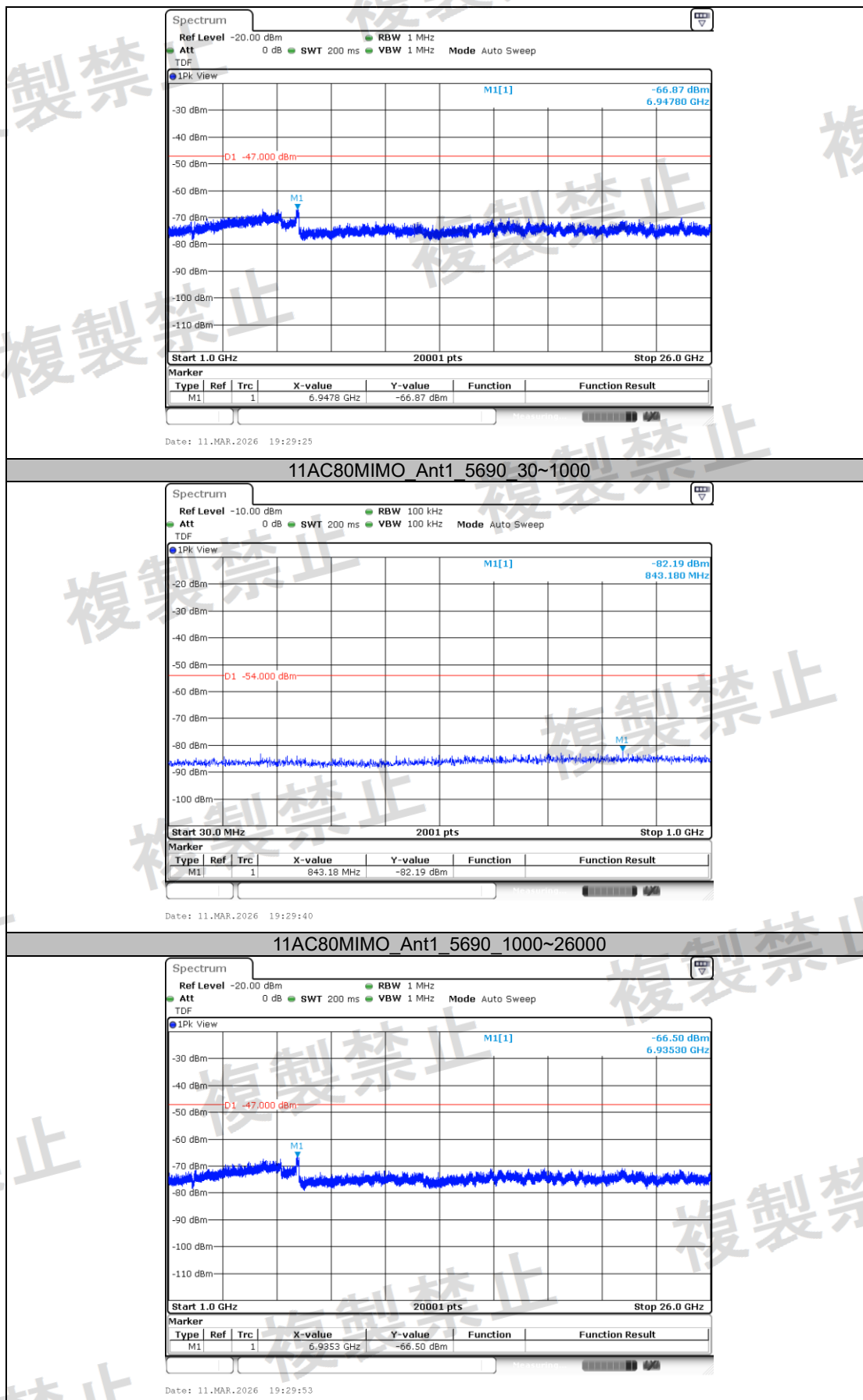
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### 3.8. Transmission Burst Length

#### LIMIT

8ms or less

#### TEST CONFIGURATION



#### TEST PROCEDURE

Enable EUT under transmission mode and connected it to the spectrum analyzer through antenna output port as the block diagram show in TEST CONFIGURATION

Use Spectrum's ACP measurement function and set spectrum analyzer as fellow:

Spectrum Condition:

- Frequency: Test frequency
- Span: 0Hz, RBW: 8MHz, VBW: 8MHz, Sweep time: Auto, Sweep mode: single
- Detector mode: Peak, Indication mode: Max hold

#### TEST RESULTS



## Measurement Data:

| DC 3.7V   |         |           |             |            |         |
|-----------|---------|-----------|-------------|------------|---------|
| TestMode  | Antenna | Freq(MHz) | Result [ms] | Limit [ms] | Verdict |
| 11A       | Ant0    | 5180      | 2.05        | ≤8         | PASS    |
|           | Ant1    | 5180      | 2.05        | ≤8         | PASS    |
|           | Ant0    | 5200      | 2.05        | ≤8         | PASS    |
|           | Ant1    | 5200      | 2.05        | ≤8         | PASS    |
|           | Ant0    | 5220      | 2.05        | ≤8         | PASS    |
|           | Ant1    | 5220      | 2.05        | ≤8         | PASS    |
|           | Ant0    | 5240      | 2.05        | ≤8         | PASS    |
|           | Ant1    | 5240      | 2.05        | ≤8         | PASS    |
|           | Ant0    | 5260      | 2.05        | ≤8         | PASS    |
|           | Ant1    | 5260      | 2.05        | ≤8         | PASS    |
|           | Ant0    | 5280      | 2.05        | ≤8         | PASS    |
|           | Ant1    | 5280      | 2.05        | ≤8         | PASS    |
|           | Ant0    | 5300      | 2.05        | ≤8         | PASS    |
|           | Ant1    | 5300      | 2.05        | ≤8         | PASS    |
|           | Ant0    | 5320      | 2.05        | ≤8         | PASS    |
|           | Ant1    | 5320      | 2.05        | ≤8         | PASS    |
|           | Ant0    | 5500      | 2.05        | ≤8         | PASS    |
|           | Ant1    | 5500      | 2.05        | ≤8         | PASS    |
|           | Ant0    | 5580      | 2.05        | ≤8         | PASS    |
|           | Ant1    | 5580      | 2.05        | ≤8         | PASS    |
|           | Ant0    | 5600      | 2.05        | ≤8         | PASS    |
|           | Ant1    | 5600      | 2.05        | ≤8         | PASS    |
|           | Ant0    | 5700      | 2.05        | ≤8         | PASS    |
|           | Ant1    | 5700      | 2.05        | ≤8         | PASS    |
| 11N20MIMO | Ant0    | 5180      | 0.98        | ≤8         | PASS    |
|           | Ant1    | 5180      | 0.98        | ≤8         | PASS    |
|           | Ant0    | 5200      | 0.98        | ≤8         | PASS    |
|           | Ant1    | 5200      | 0.98        | ≤8         | PASS    |
|           | Ant0    | 5220      | 0.98        | ≤8         | PASS    |
|           | Ant1    | 5220      | 0.98        | ≤8         | PASS    |
|           | Ant0    | 5240      | 0.98        | ≤8         | PASS    |
|           | Ant1    | 5240      | 0.98        | ≤8         | PASS    |
|           | Ant0    | 5260      | 0.98        | ≤8         | PASS    |
|           | Ant1    | 5260      | 0.98        | ≤8         | PASS    |
|           | Ant0    | 5280      | 0.98        | ≤8         | PASS    |
|           | Ant1    | 5280      | 0.98        | ≤8         | PASS    |
|           | Ant0    | 5300      | 0.98        | ≤8         | PASS    |
|           | Ant1    | 5300      | 0.98        | ≤8         | PASS    |
|           | Ant0    | 5320      | 0.98        | ≤8         | PASS    |
|           | Ant1    | 5320      | 0.98        | ≤8         | PASS    |
|           | Ant0    | 5500      | 0.98        | ≤8         | PASS    |
|           | Ant1    | 5500      | 0.98        | ≤8         | PASS    |
|           | Ant0    | 5580      | 0.98        | ≤8         | PASS    |
|           | Ant1    | 5580      | 0.98        | ≤8         | PASS    |
|           | Ant0    | 5600      | 0.98        | ≤8         | PASS    |
|           | Ant1    | 5600      | 0.98        | ≤8         | PASS    |
|           | Ant0    | 5700      | 0.98        | ≤8         | PASS    |
|           | Ant1    | 5700      | 0.98        | ≤8         | PASS    |
| 11N40MIMO | Ant0    | 5190      | 0.49        | ≤8         | PASS    |
|           | Ant1    | 5190      | 0.49        | ≤8         | PASS    |
|           | Ant0    | 5230      | 0.49        | ≤8         | PASS    |
|           | Ant1    | 5230      | 0.49        | ≤8         | PASS    |
|           | Ant0    | 5270      | 0.49        | ≤8         | PASS    |
|           | Ant1    | 5270      | 0.00        | ≤8         | PASS    |
|           | Ant0    | 5310      | 0.49        | ≤8         | PASS    |
|           | Ant1    | 5310      | 0.49        | ≤8         | PASS    |

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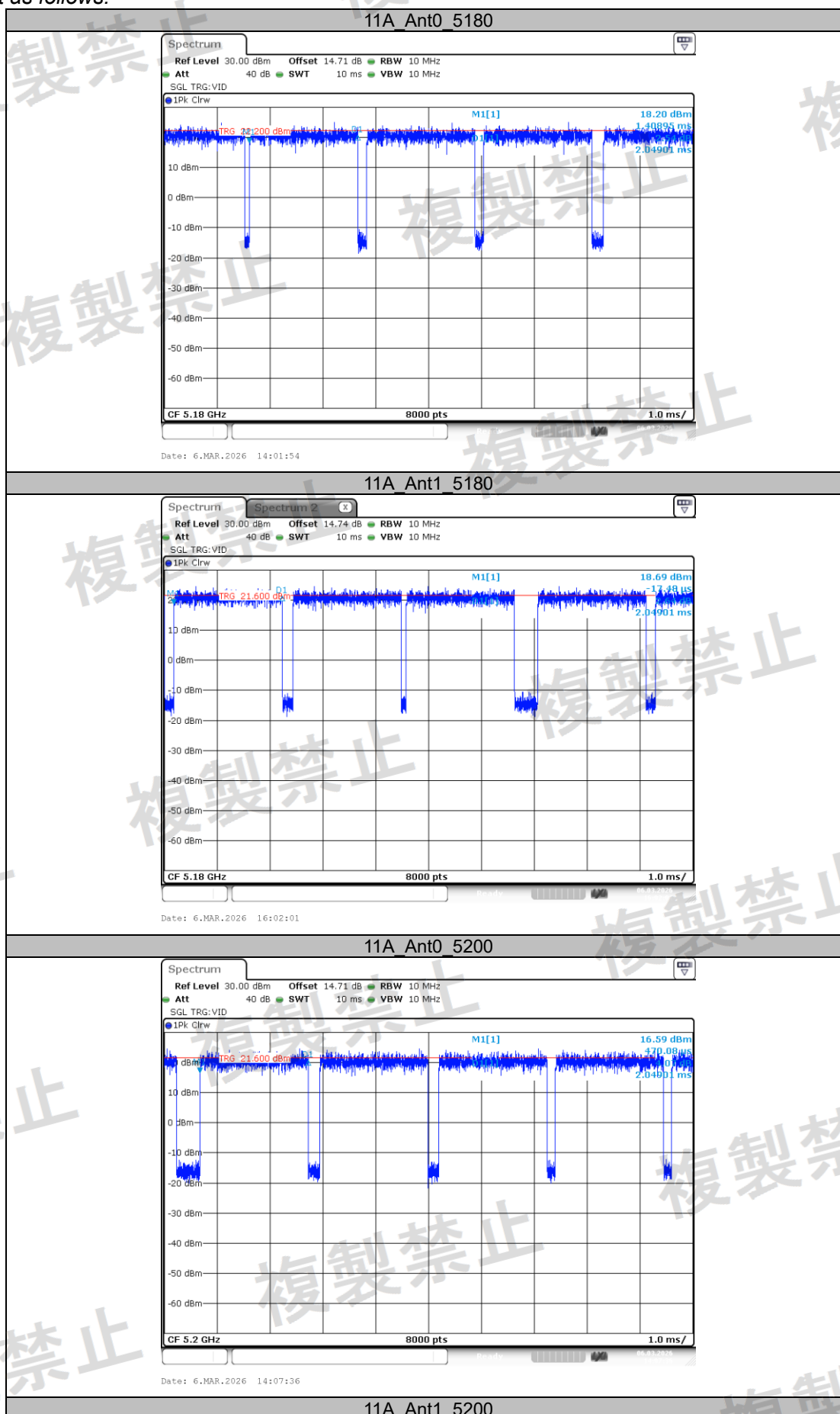
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|            |      |      |      |    |      |
|------------|------|------|------|----|------|
|            | Ant0 | 5510 | 0.49 | ≤8 | PASS |
|            | Ant1 | 5510 | 0.49 | ≤8 | PASS |
|            | Ant0 | 5550 | 0.49 | ≤8 | PASS |
|            | Ant1 | 5550 | 0.49 | ≤8 | PASS |
|            | Ant0 | 5670 | 0.49 | ≤8 | PASS |
|            | Ant1 | 5670 | 0.49 | ≤8 | PASS |
|            | Ant0 | 5710 | 0.49 | ≤8 | PASS |
|            | Ant1 | 5710 | 0.49 | ≤8 | PASS |
| 11AC20MIMO | Ant0 | 5180 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5180 | 1.92 | ≤8 | PASS |
|            | Ant0 | 5200 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5200 | 1.92 | ≤8 | PASS |
|            | Ant0 | 5220 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5220 | 1.92 | ≤8 | PASS |
|            | Ant0 | 5240 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5240 | 1.92 | ≤8 | PASS |
|            | Ant0 | 5260 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5260 | 1.92 | ≤8 | PASS |
|            | Ant0 | 5280 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5280 | 1.92 | ≤8 | PASS |
|            | Ant0 | 5300 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5300 | 1.92 | ≤8 | PASS |
|            | Ant0 | 5320 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5320 | 1.92 | ≤8 | PASS |
|            | Ant0 | 5500 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5500 | 1.92 | ≤8 | PASS |
|            | Ant0 | 5580 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5580 | 1.92 | ≤8 | PASS |
|            | Ant0 | 5600 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5600 | 1.92 | ≤8 | PASS |
|            | Ant0 | 5700 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5700 | 1.92 | ≤8 | PASS |
|            | Ant0 | 5720 | 1.92 | ≤8 | PASS |
|            | Ant1 | 5720 | 1.92 | ≤8 | PASS |
| 11AC40MIMO | Ant0 | 5190 | 0.94 | ≤8 | PASS |
|            | Ant1 | 5190 | 0.94 | ≤8 | PASS |
|            | Ant0 | 5230 | 0.94 | ≤8 | PASS |
|            | Ant1 | 5230 | 0.94 | ≤8 | PASS |
|            | Ant0 | 5270 | 0.00 | ≤8 | PASS |
|            | Ant1 | 5270 | 0.94 | ≤8 | PASS |
|            | Ant0 | 5310 | 0.94 | ≤8 | PASS |
|            | Ant1 | 5310 | 0.94 | ≤8 | PASS |
|            | Ant0 | 5510 | 0.94 | ≤8 | PASS |
|            | Ant1 | 5510 | 0.94 | ≤8 | PASS |
|            | Ant0 | 5550 | 0.94 | ≤8 | PASS |
|            | Ant1 | 5550 | 0.94 | ≤8 | PASS |
|            | Ant0 | 5670 | 0.94 | ≤8 | PASS |
|            | Ant1 | 5670 | 0.94 | ≤8 | PASS |
|            | Ant0 | 5710 | 0.94 | ≤8 | PASS |
|            | Ant1 | 5710 | 0.94 | ≤8 | PASS |
| 11AC80MIMO | Ant0 | 5210 | 0.46 | ≤8 | PASS |
|            | Ant1 | 5210 | 0.45 | ≤8 | PASS |
|            | Ant0 | 5290 | 0.46 | ≤8 | PASS |
|            | Ant1 | 5290 | 0.45 | ≤8 | PASS |
|            | Ant0 | 5530 | 0.45 | ≤8 | PASS |
|            | Ant1 | 5530 | 0.46 | ≤8 | PASS |
|            | Ant0 | 5610 | 0.45 | ≤8 | PASS |
|            | Ant1 | 5610 | 0.46 | ≤8 | PASS |
|            | Ant0 | 5690 | 0.46 | ≤8 | PASS |
|            | Ant1 | 5690 | 0.46 | ≤8 | PASS |



Test plot as follows:



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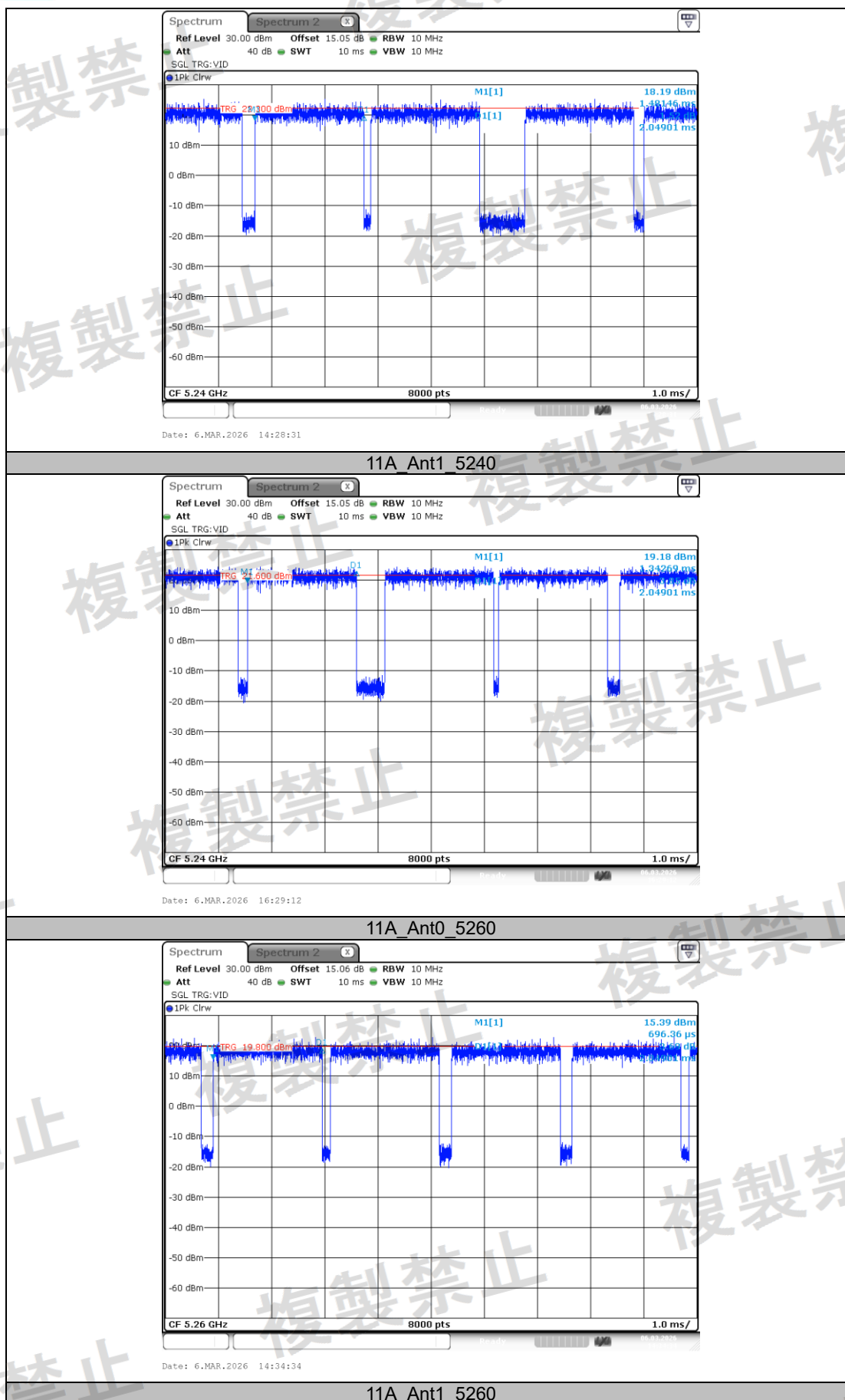
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

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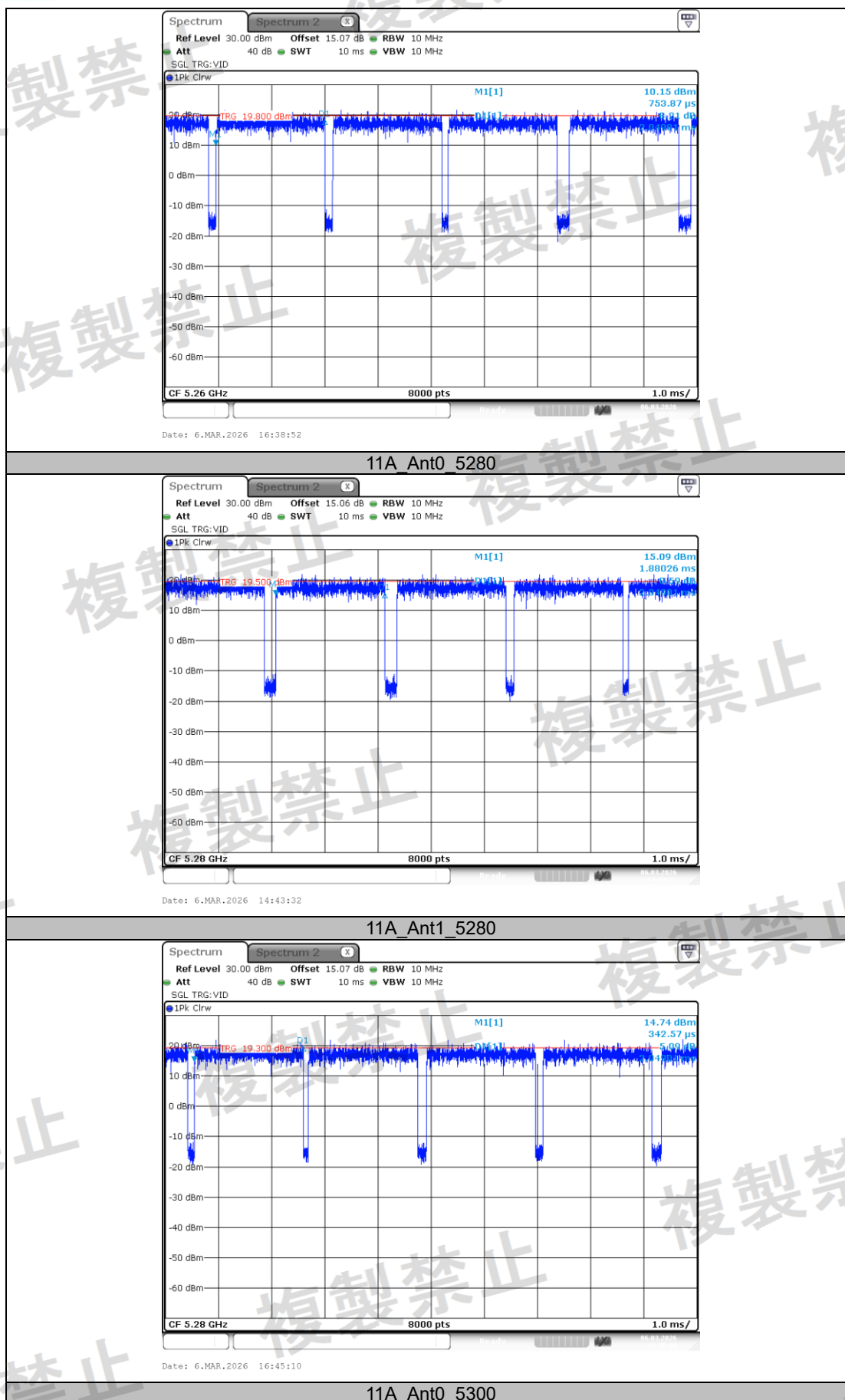
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

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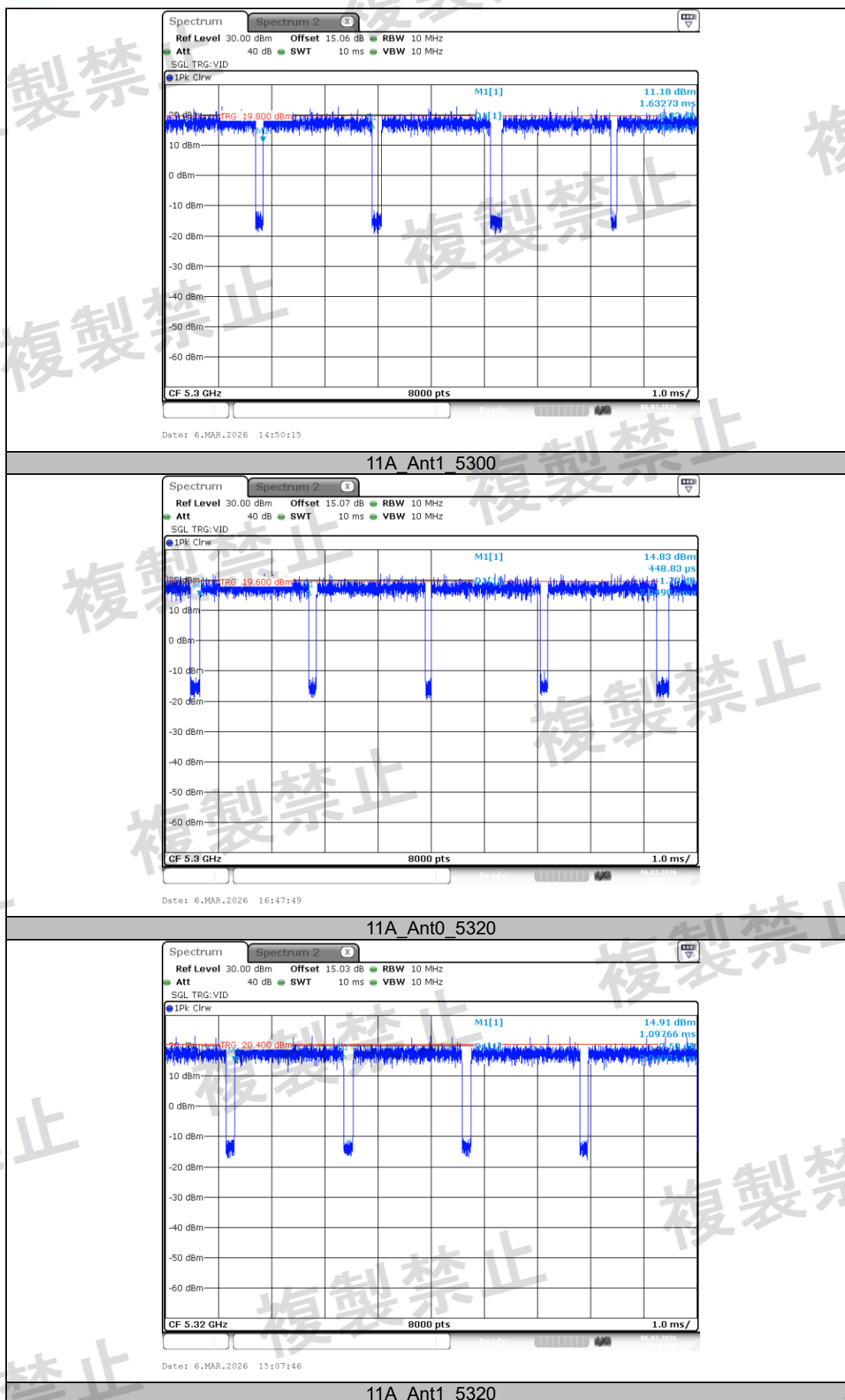
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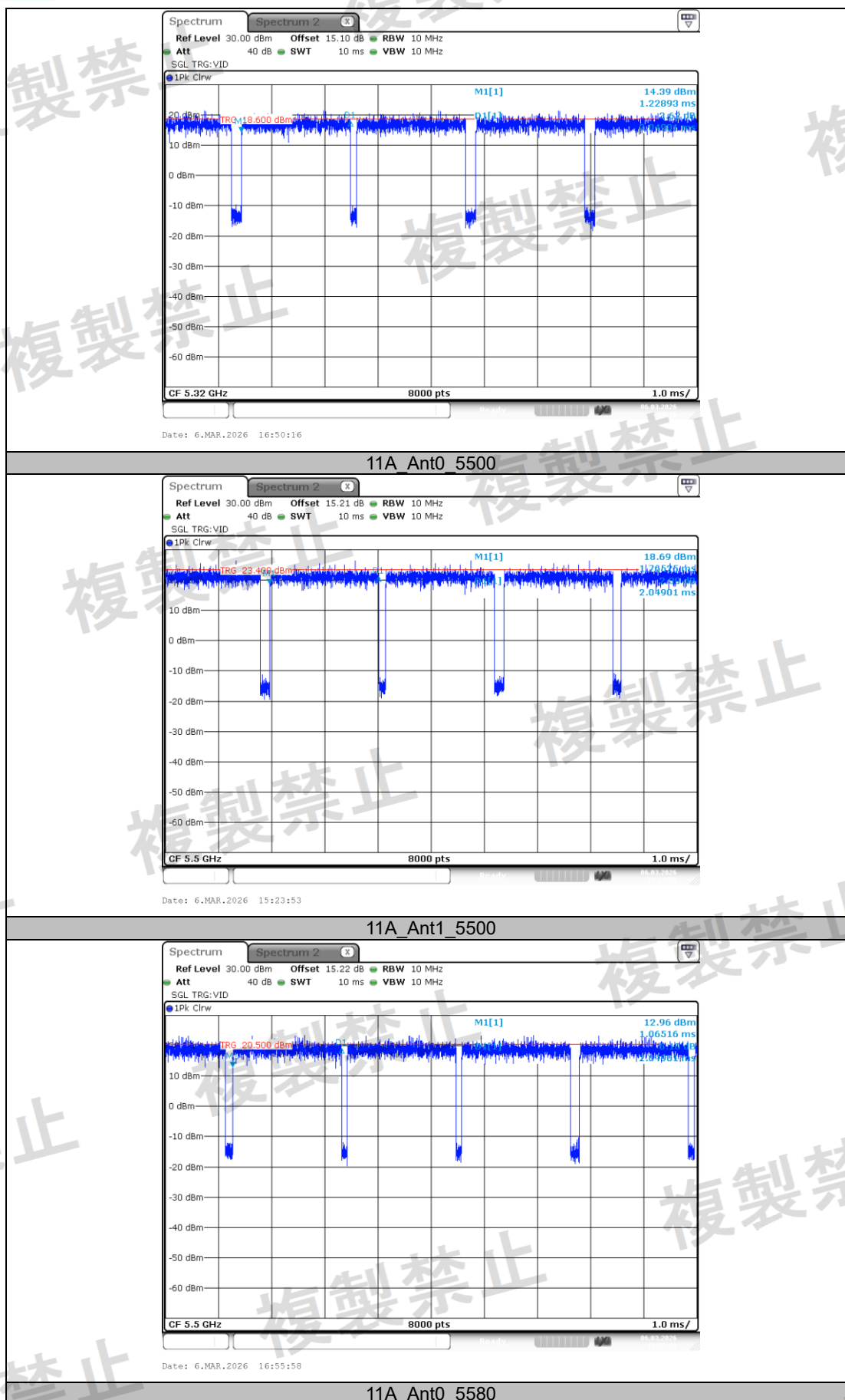
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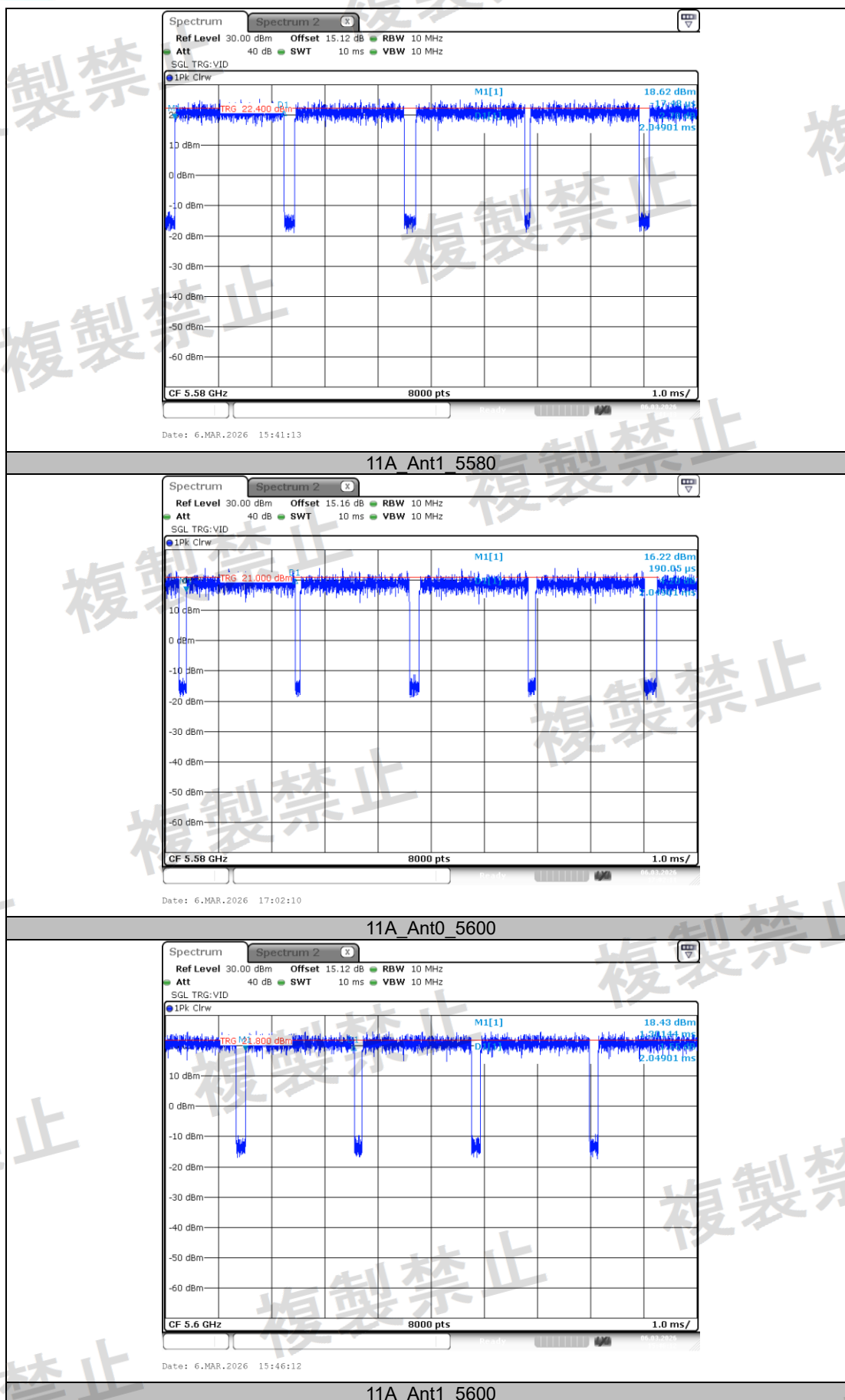
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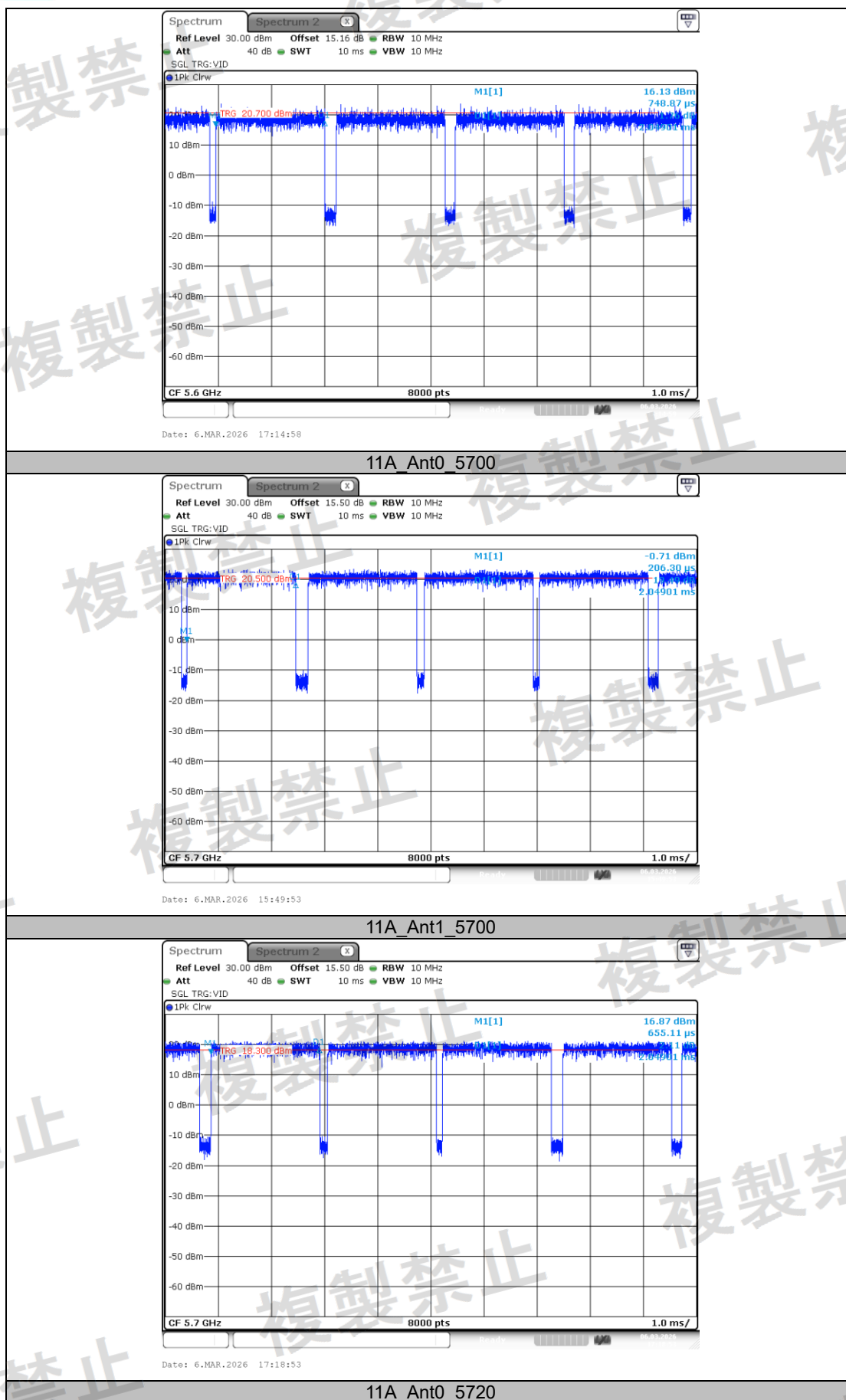
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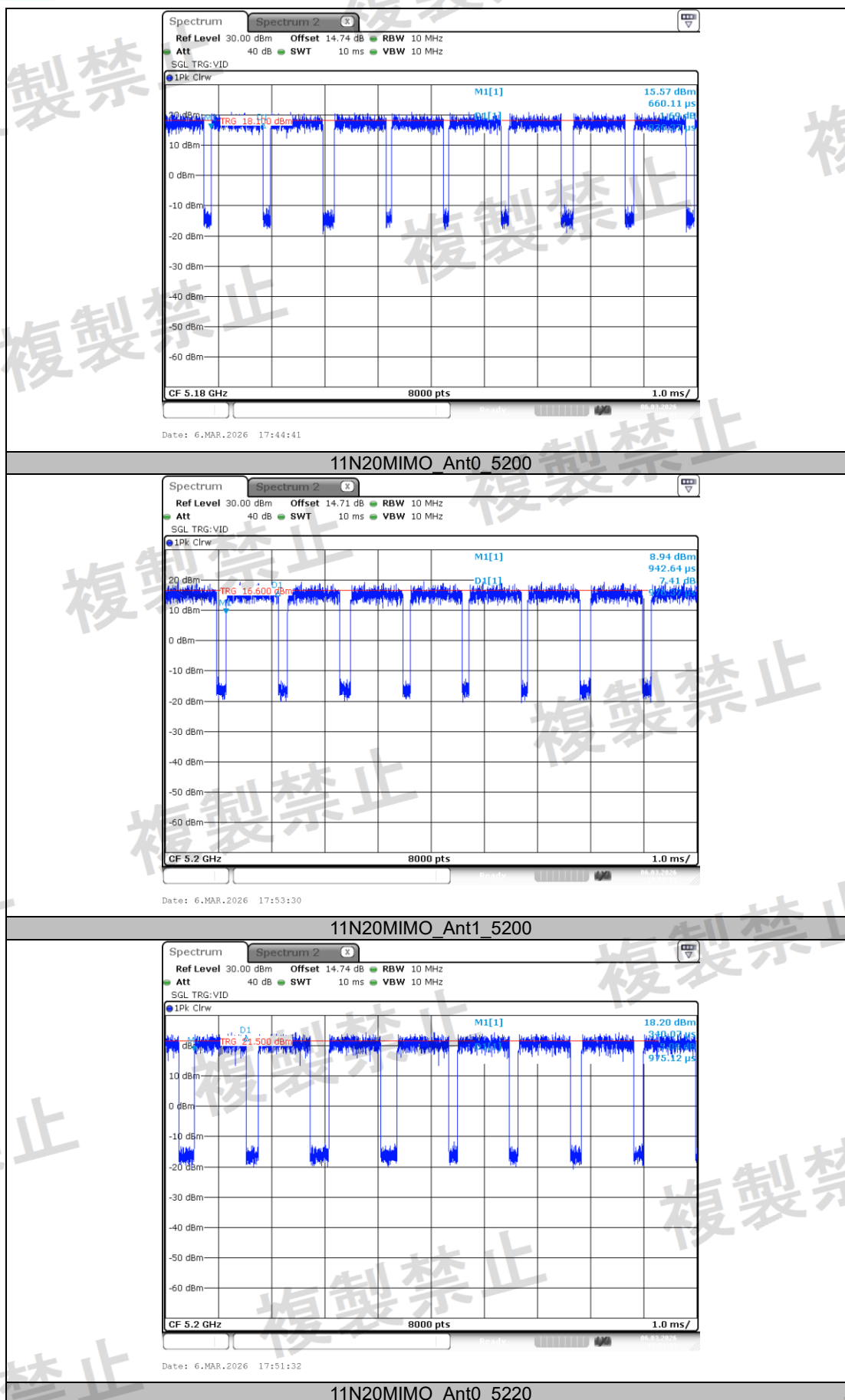
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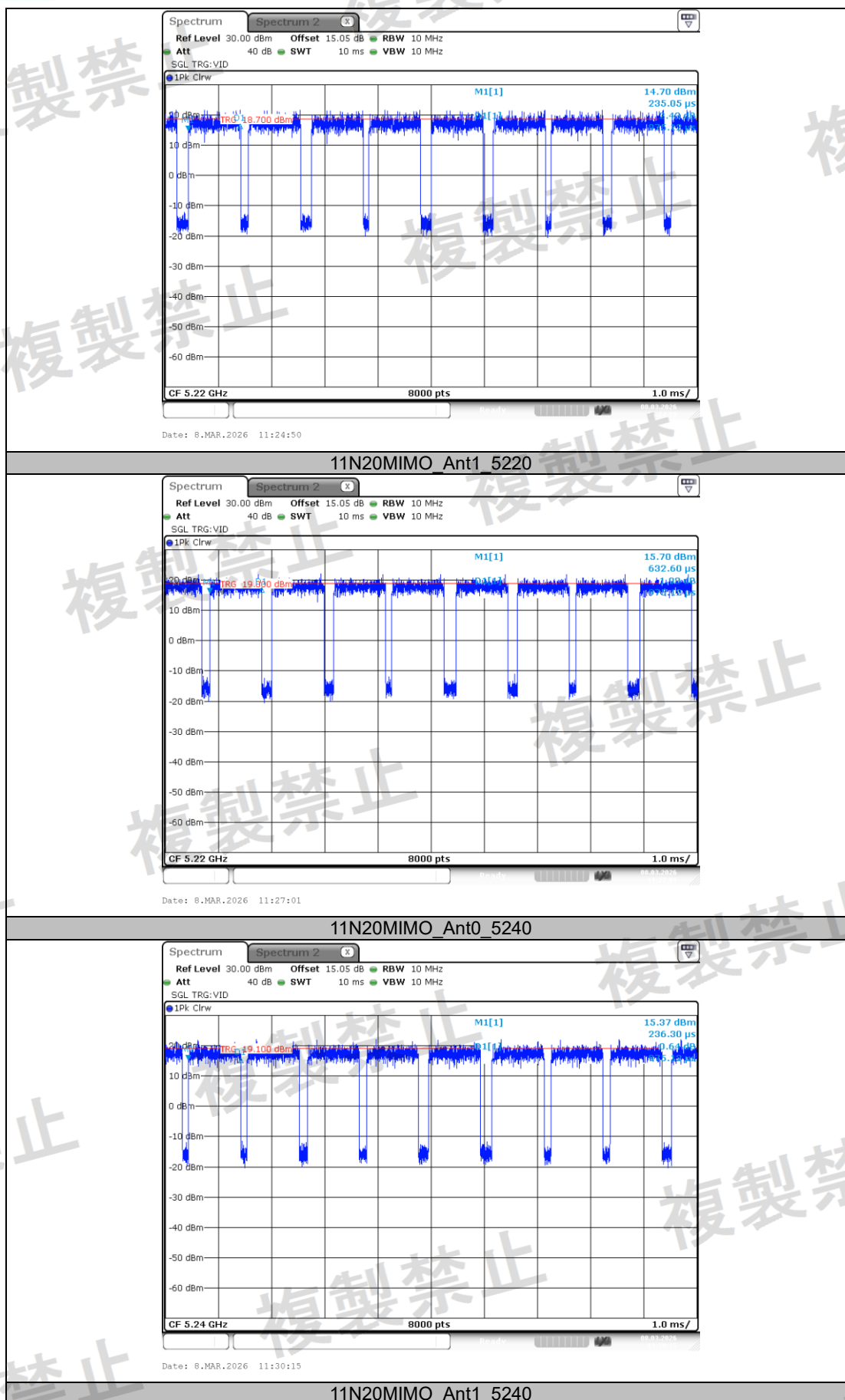
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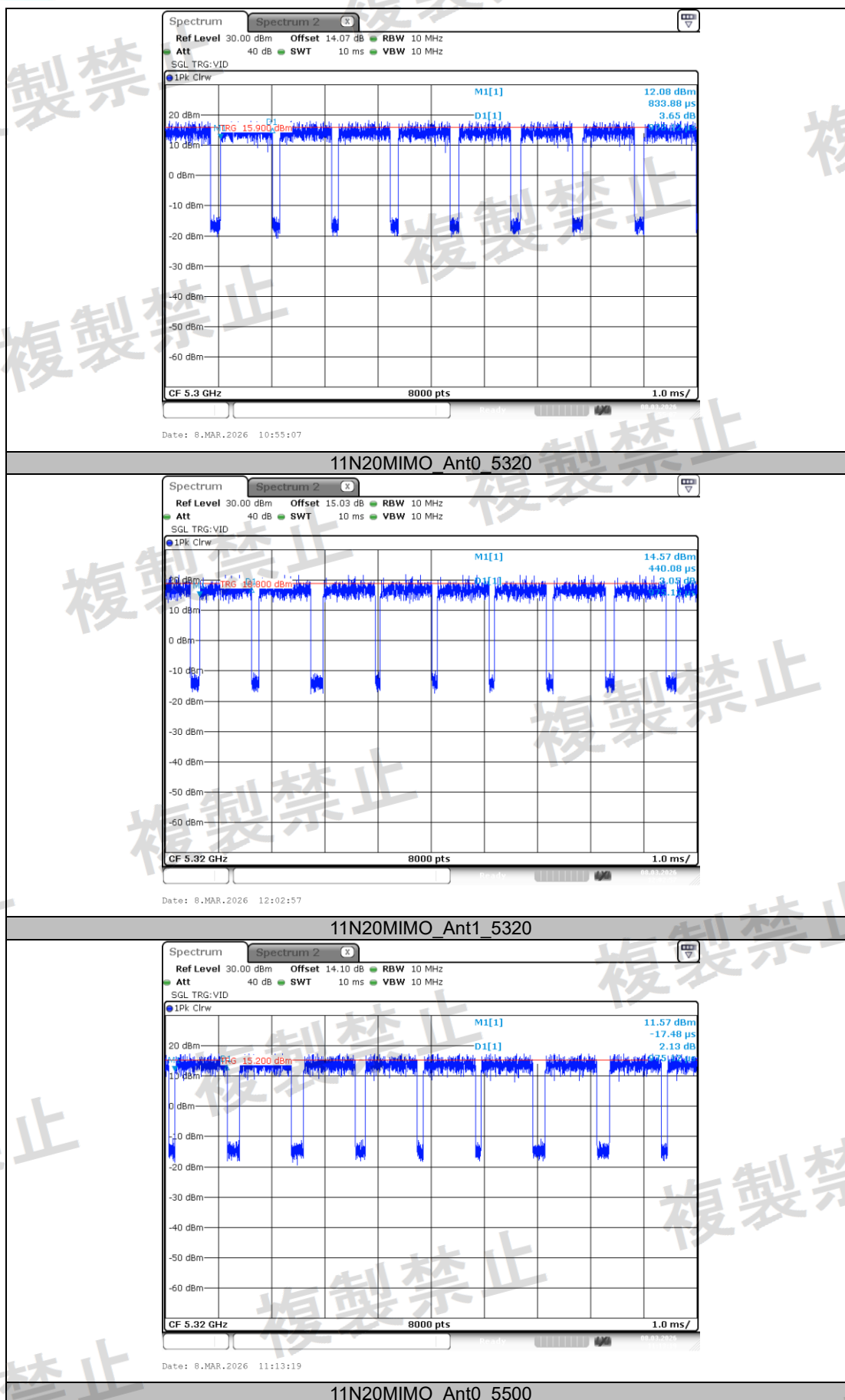
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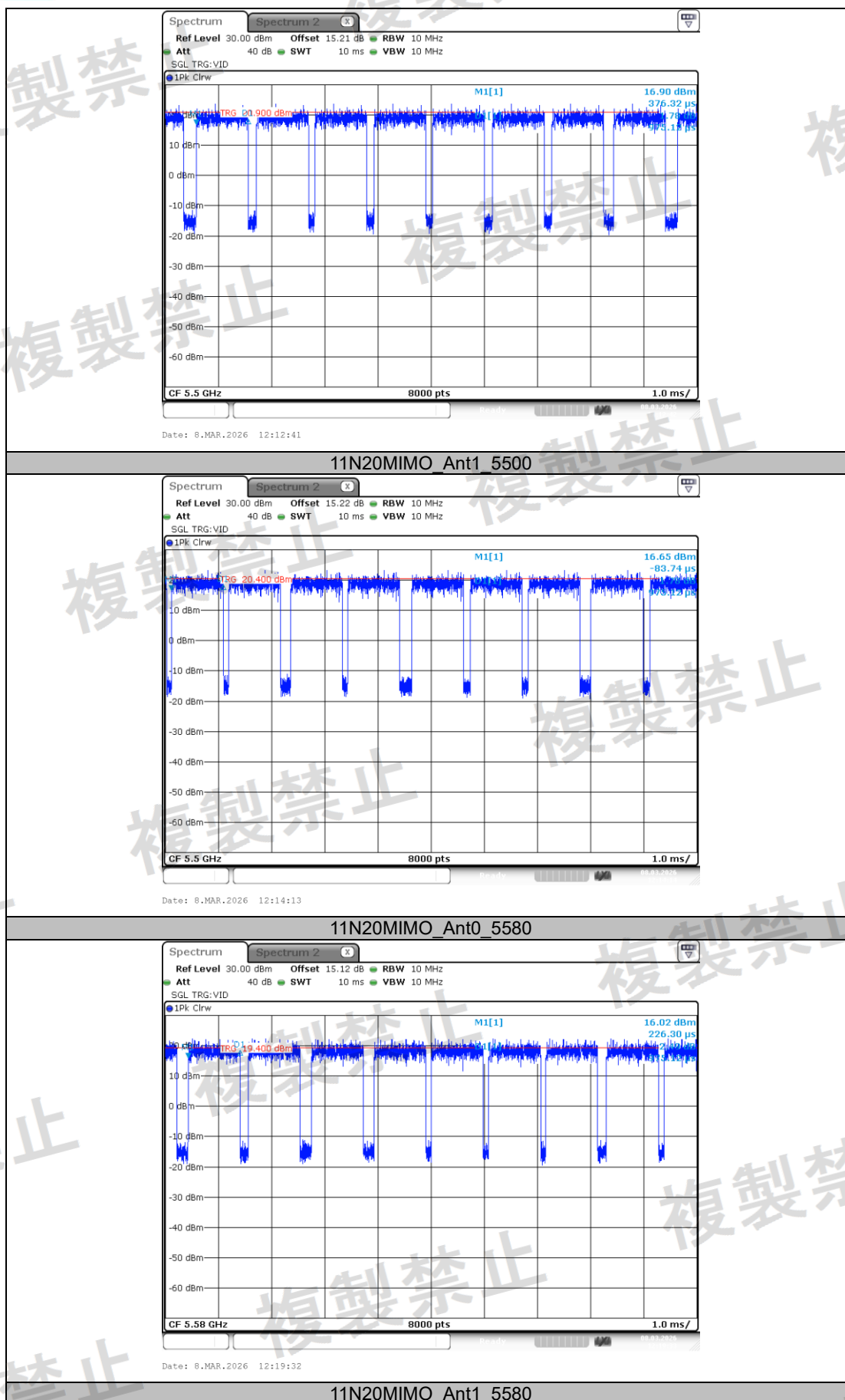
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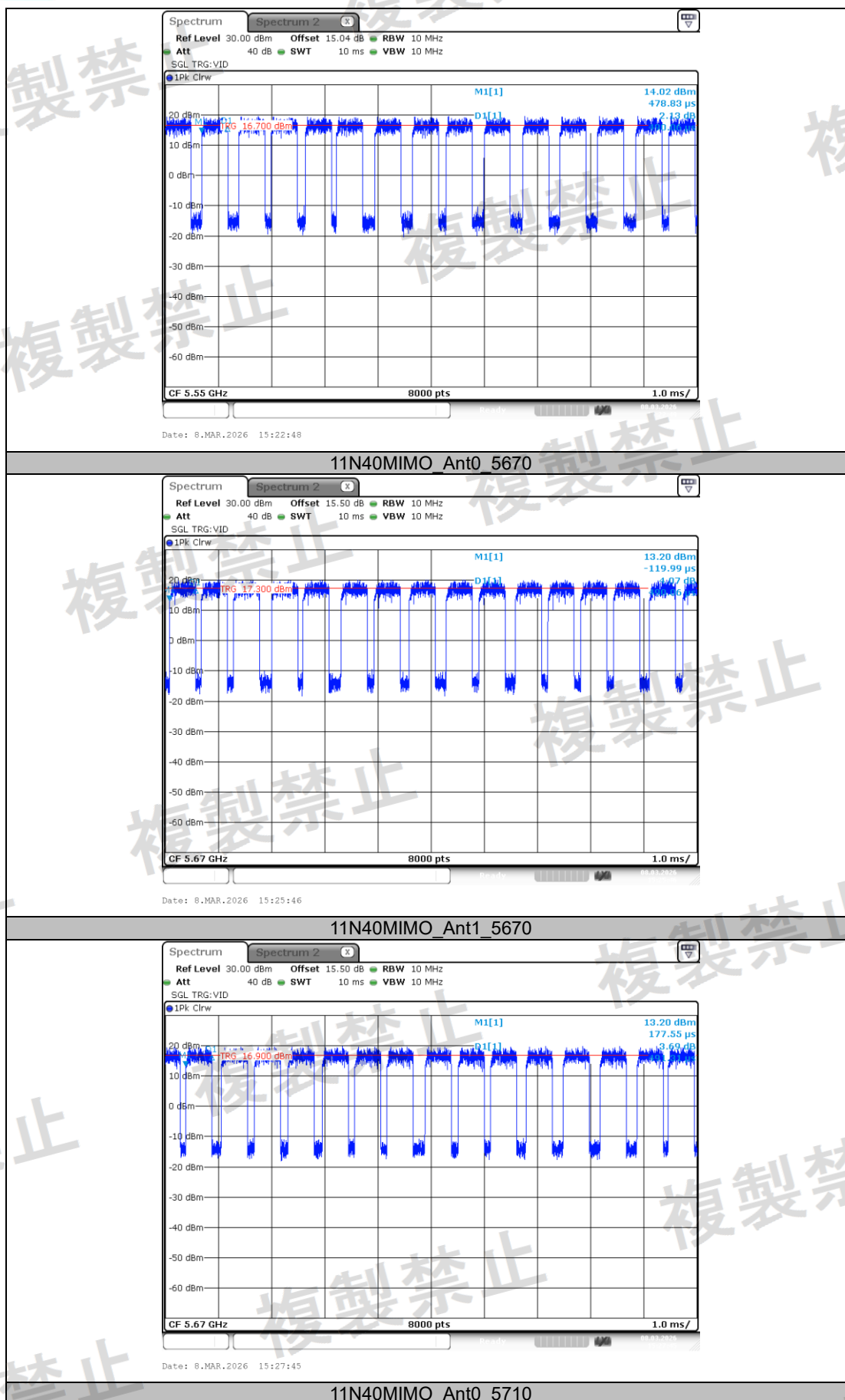
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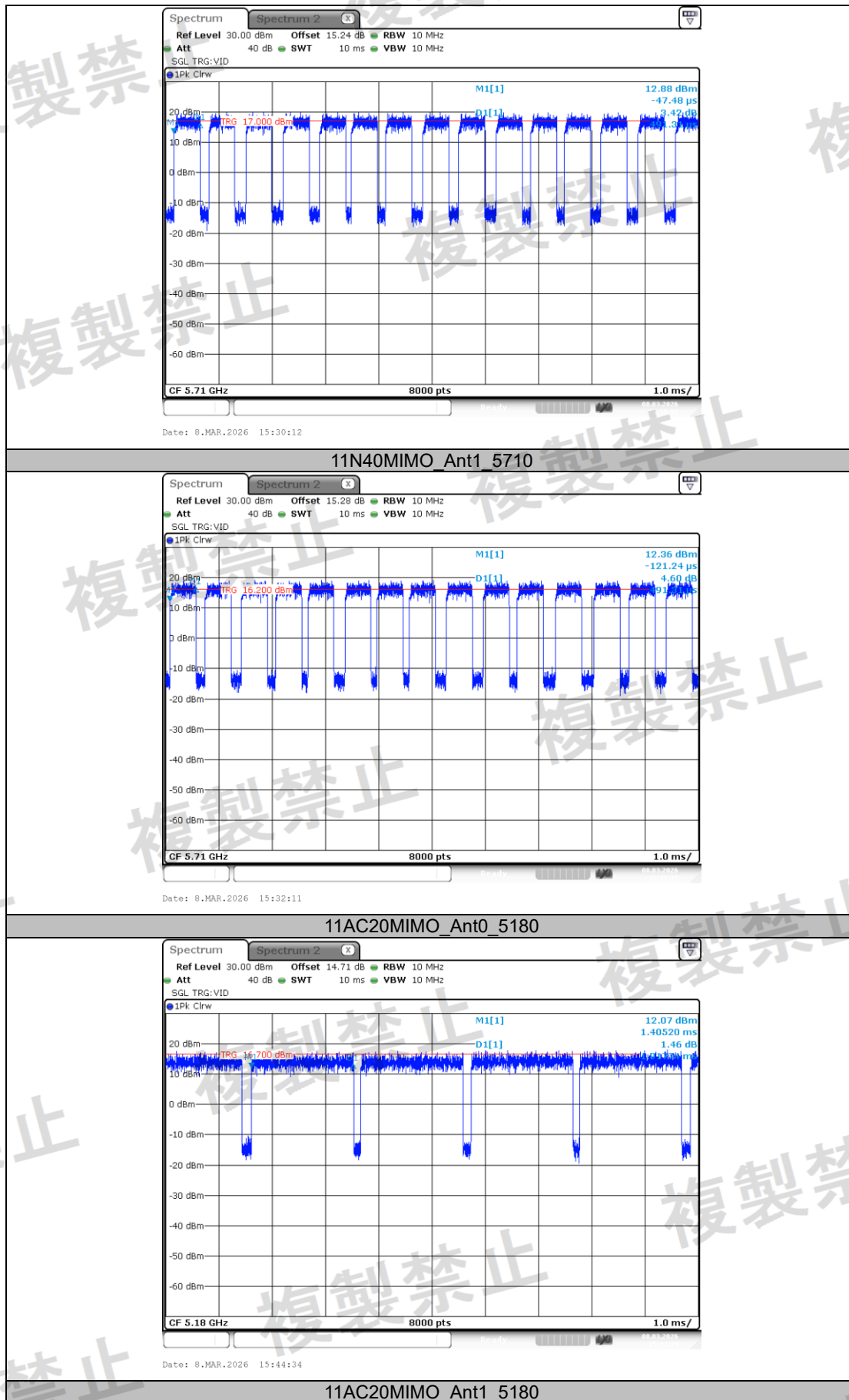
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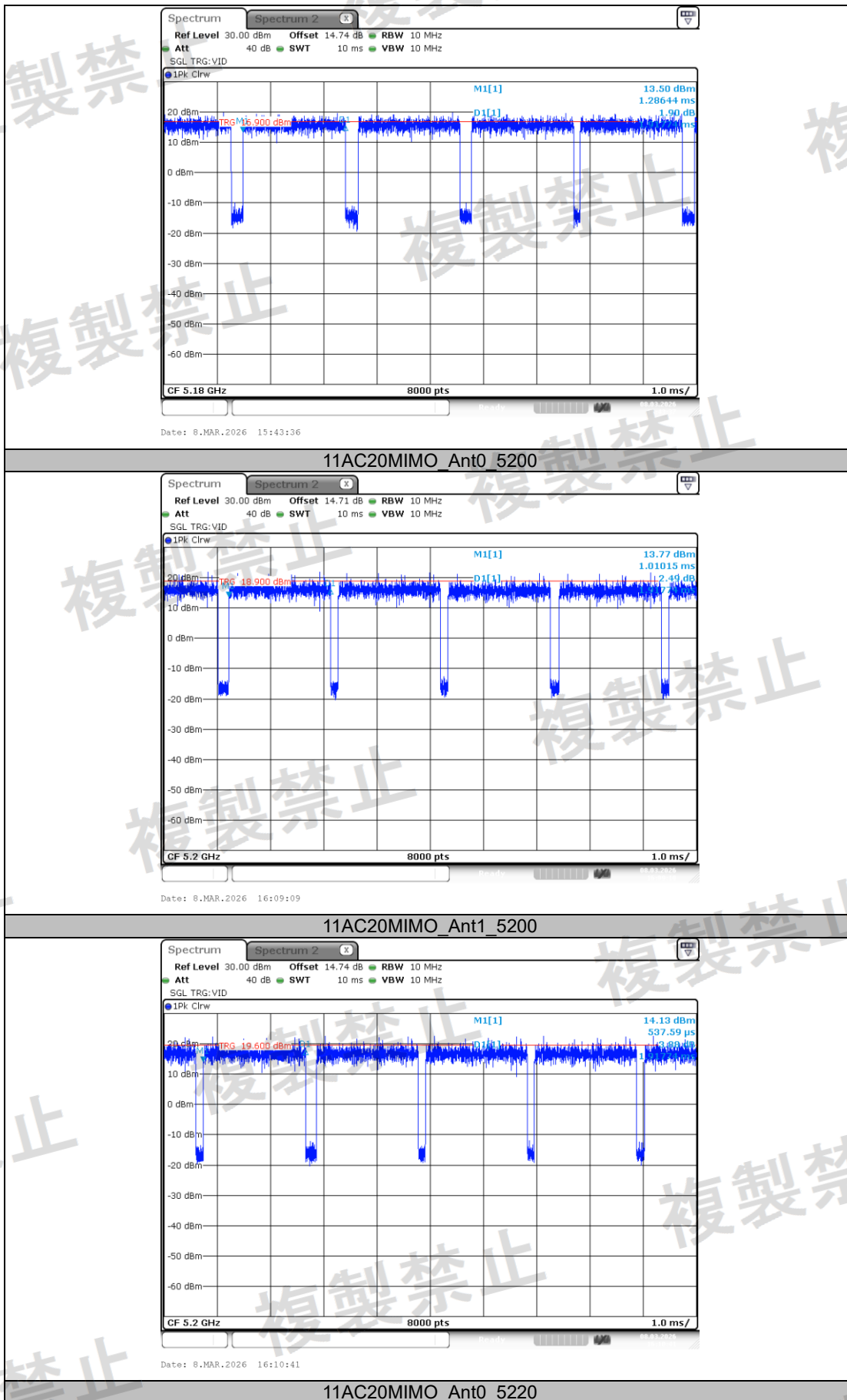
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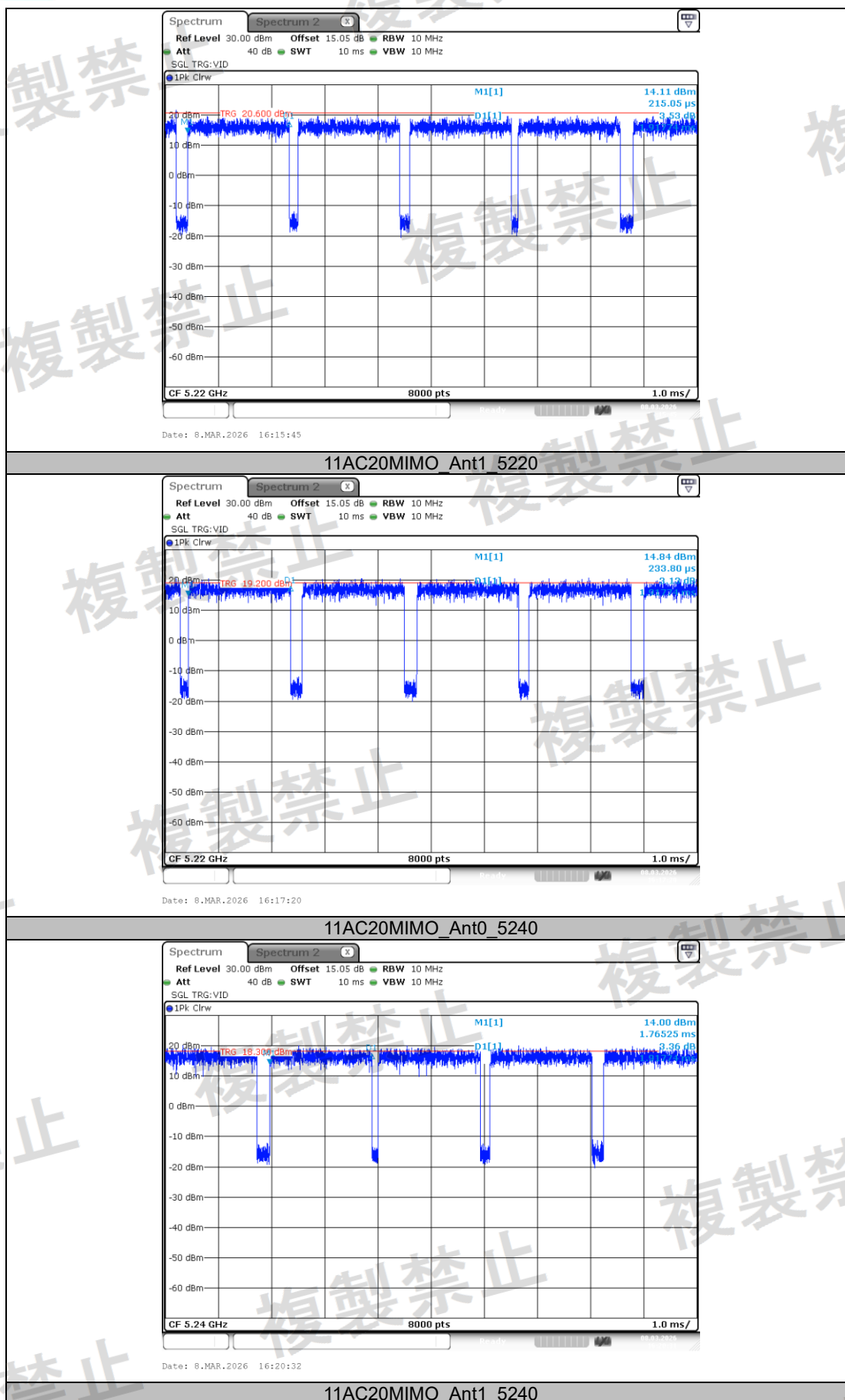
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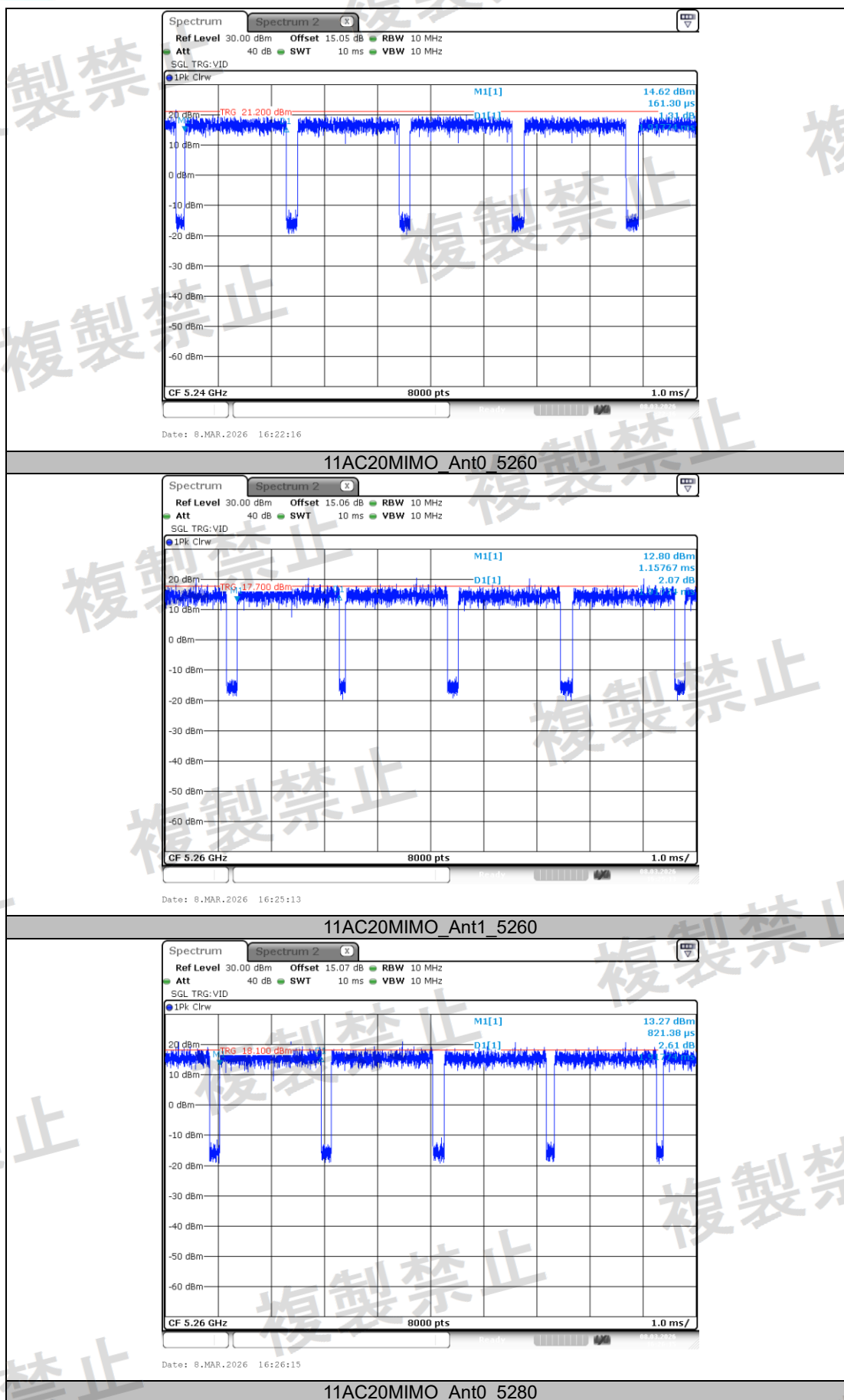
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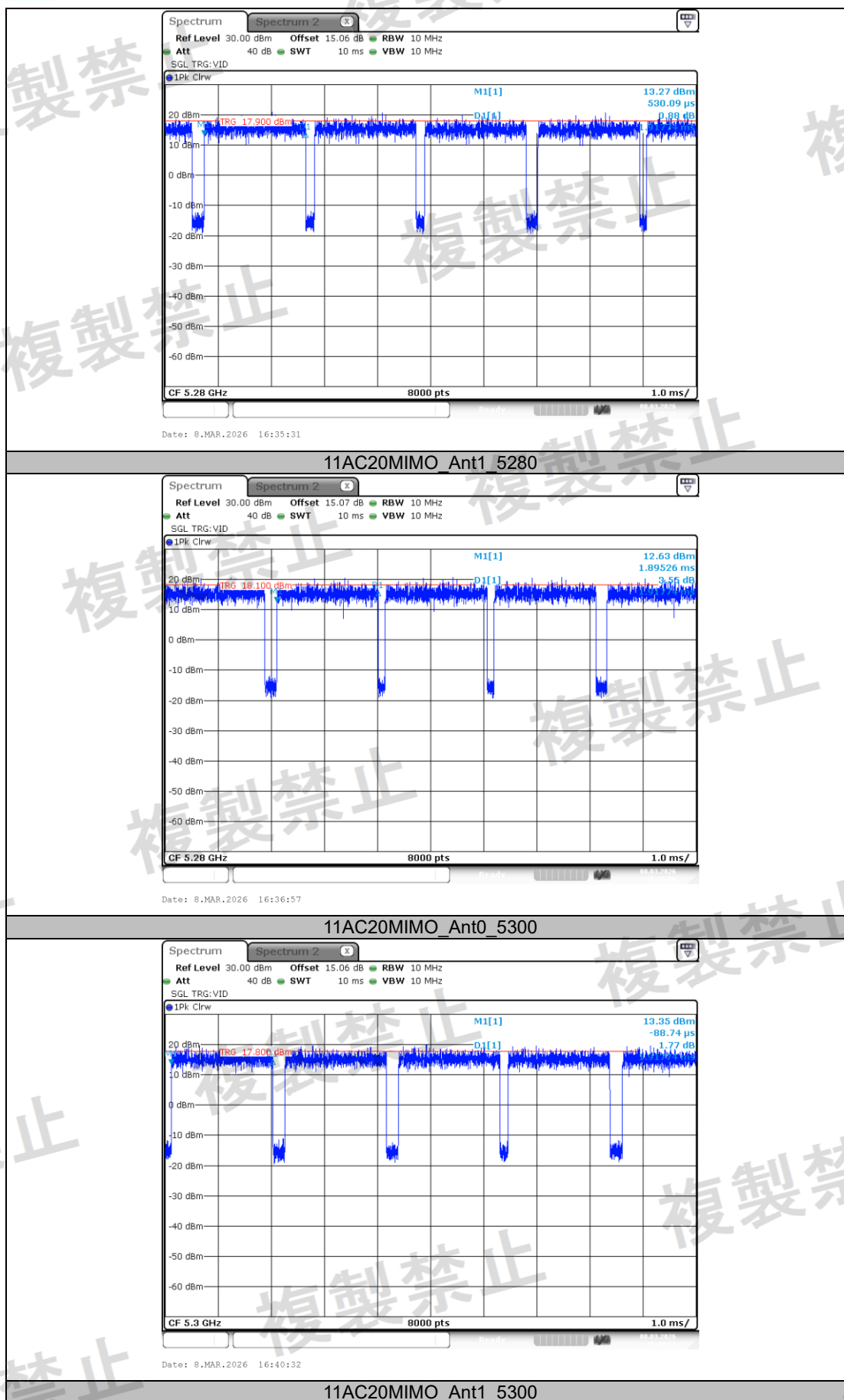
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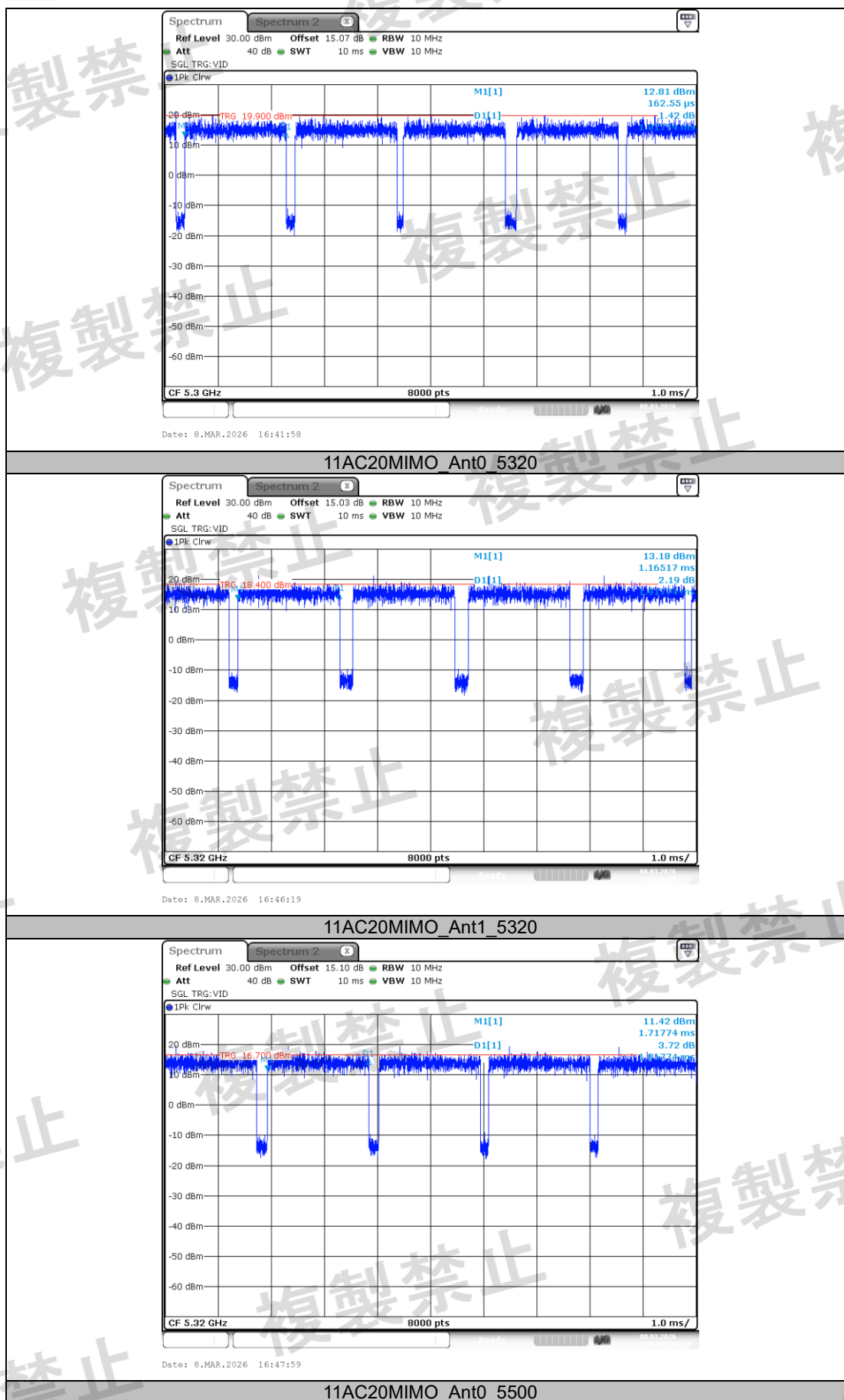
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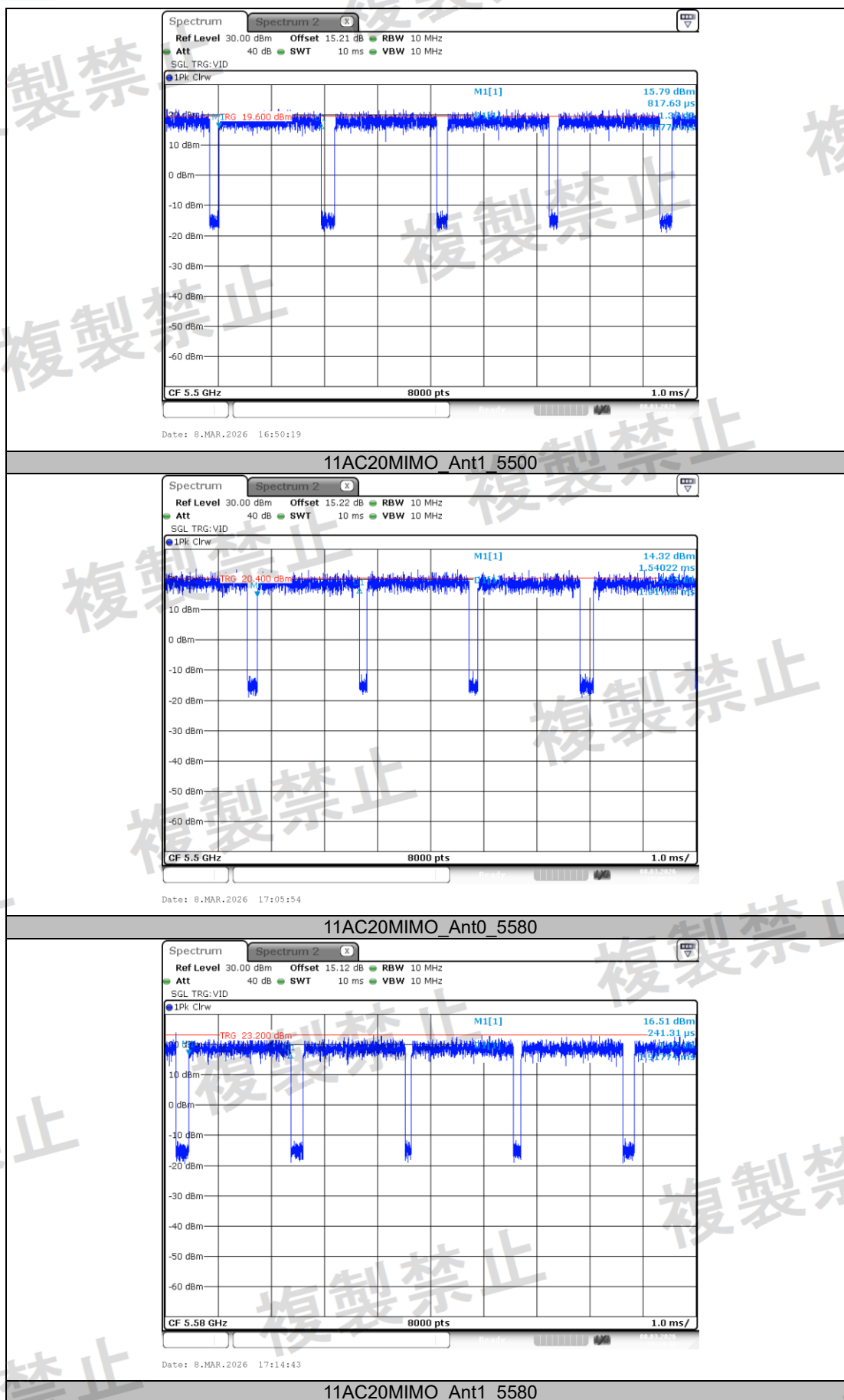
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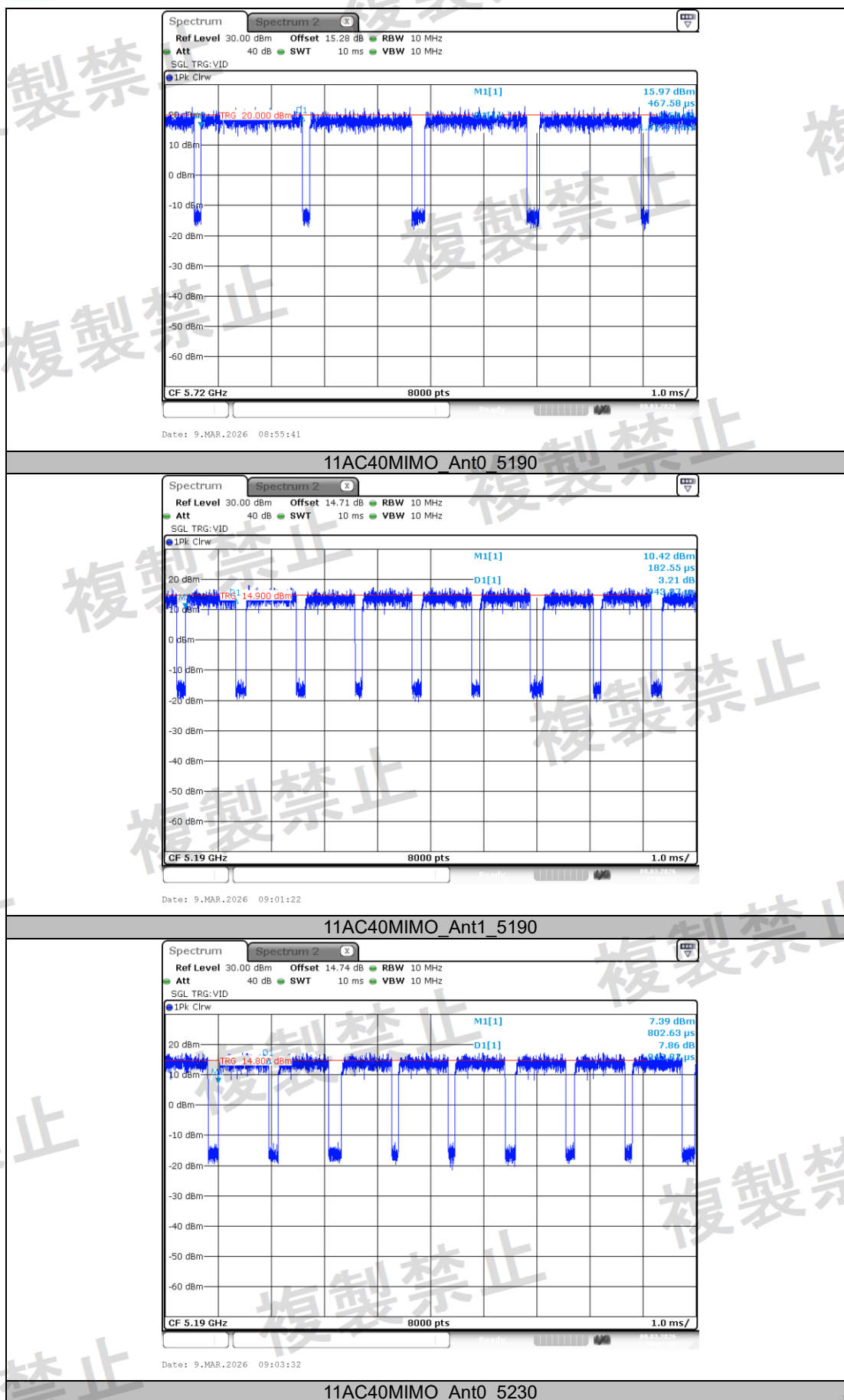
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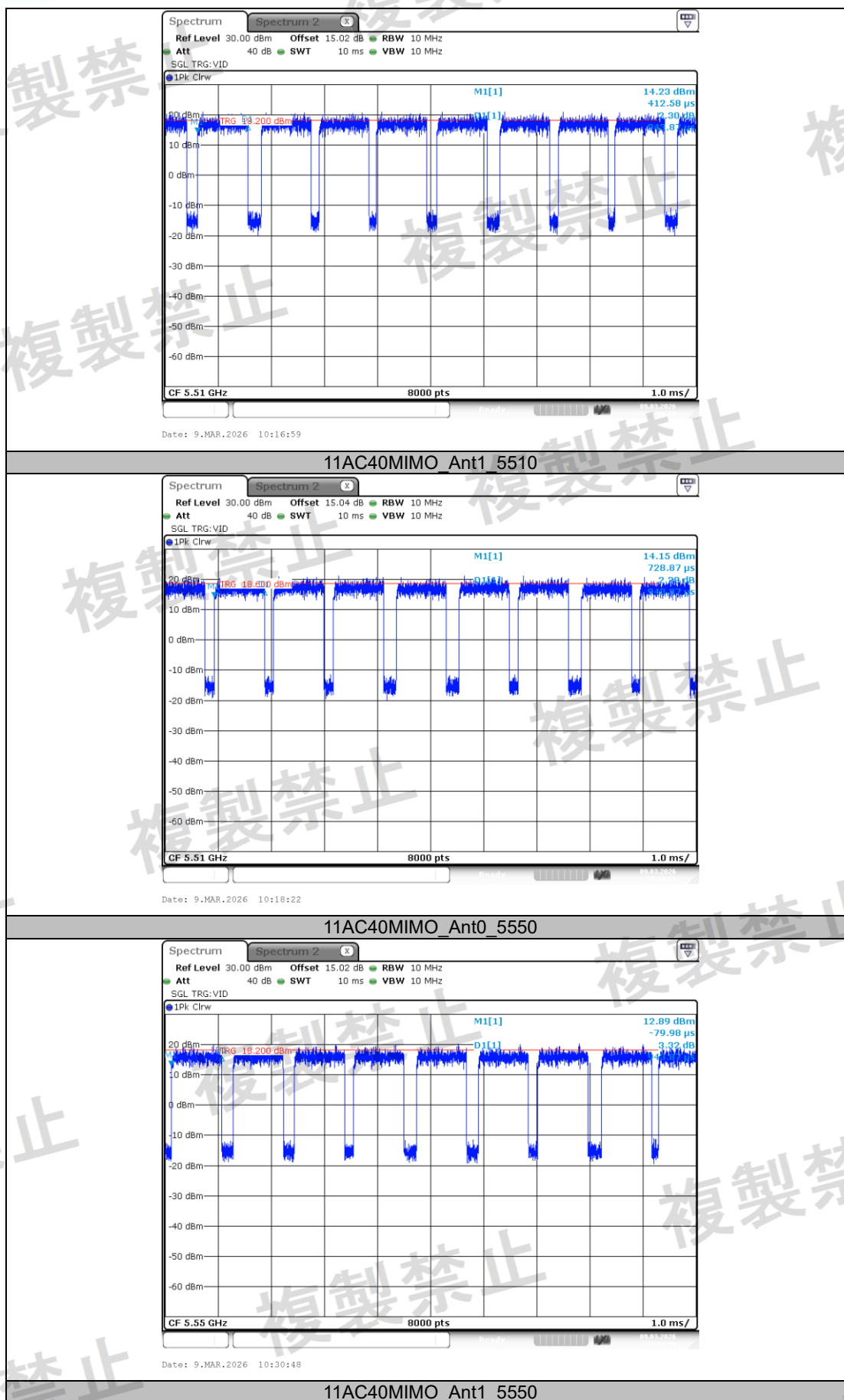
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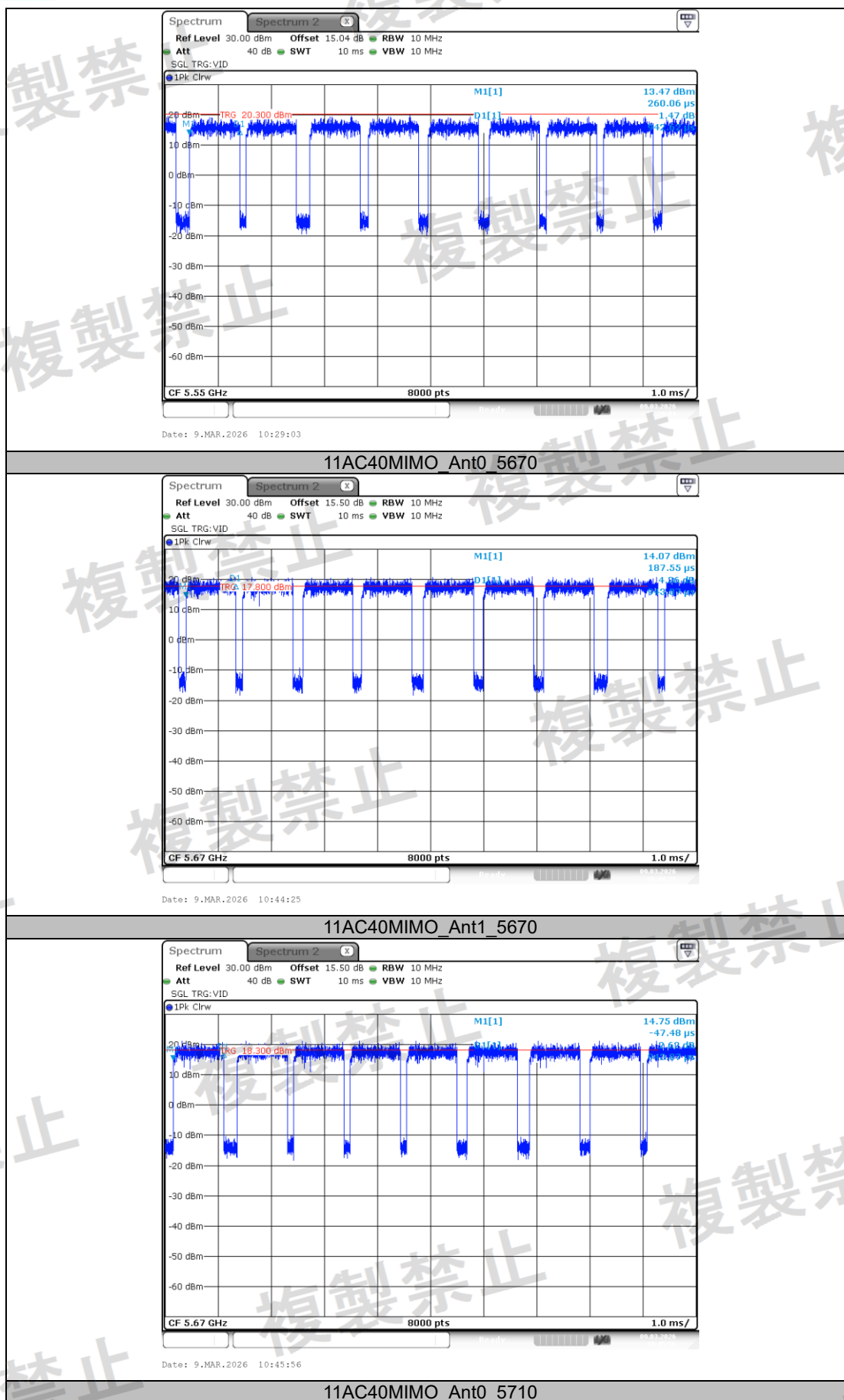
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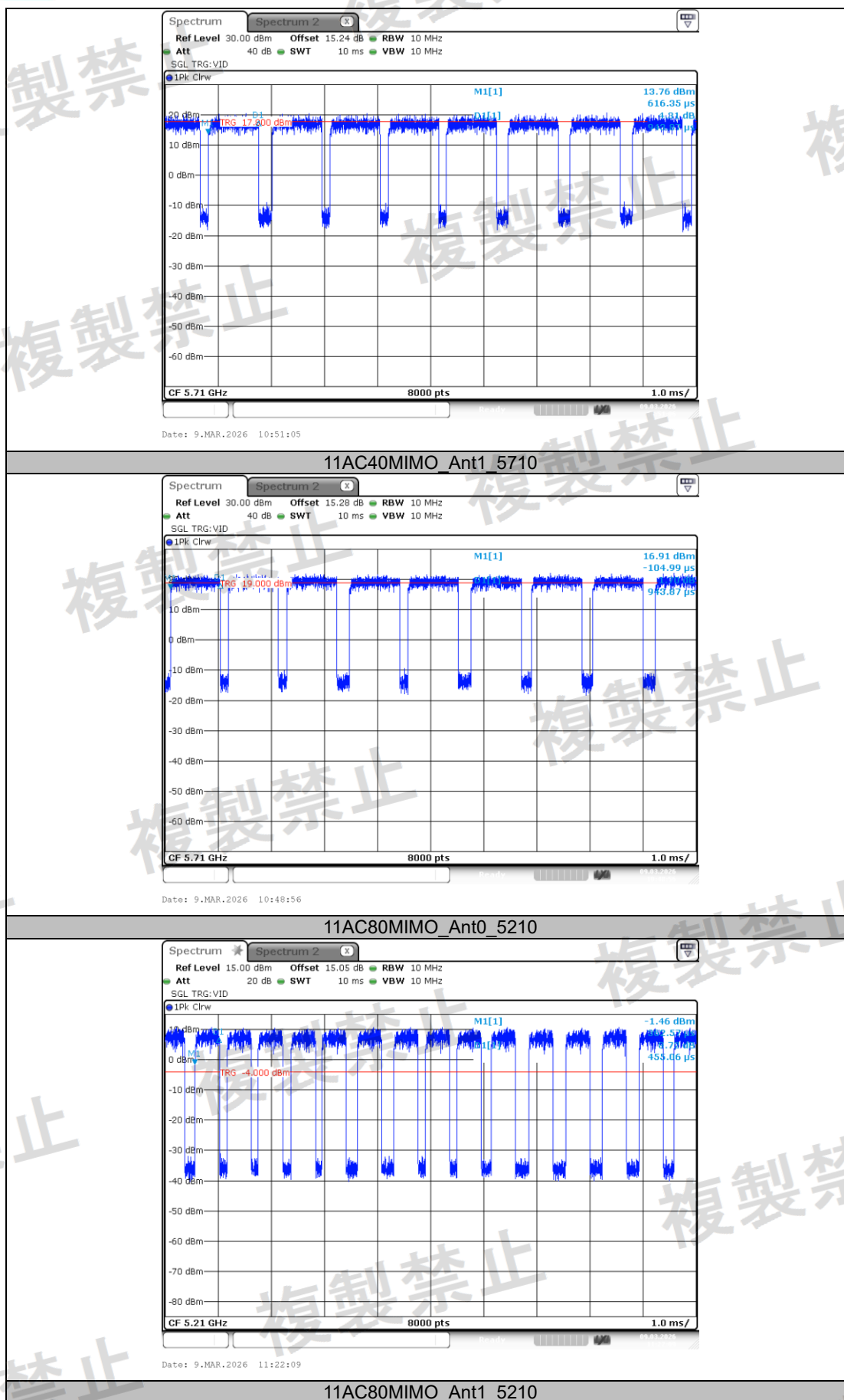
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CTC Laboratories, Inc.

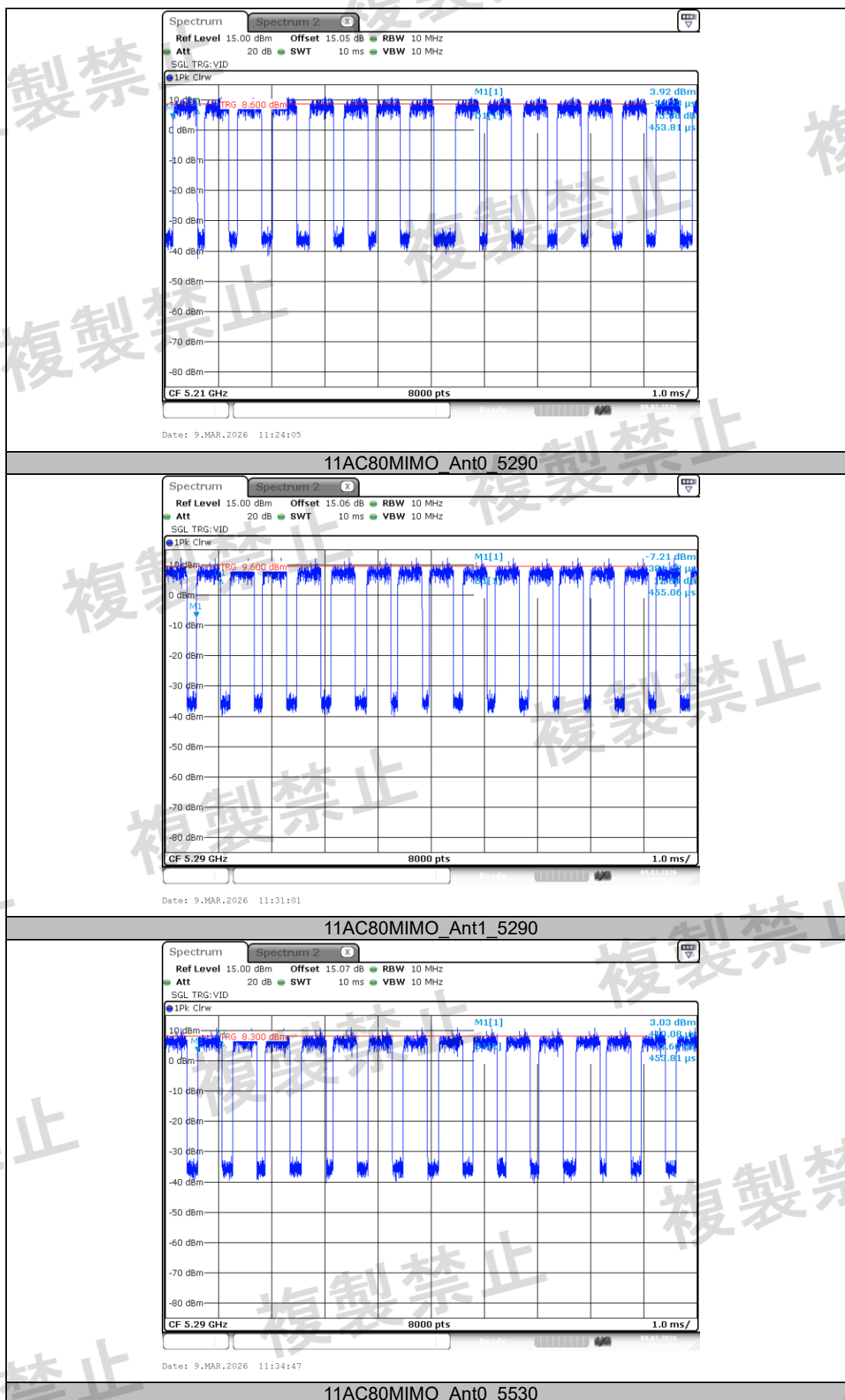
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

Tel.: (86)755-27521059 Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

TRF No: CTC-TR-072\_A3

Master TRF : Dated 2026-01-01



CTC Laboratories, Inc.

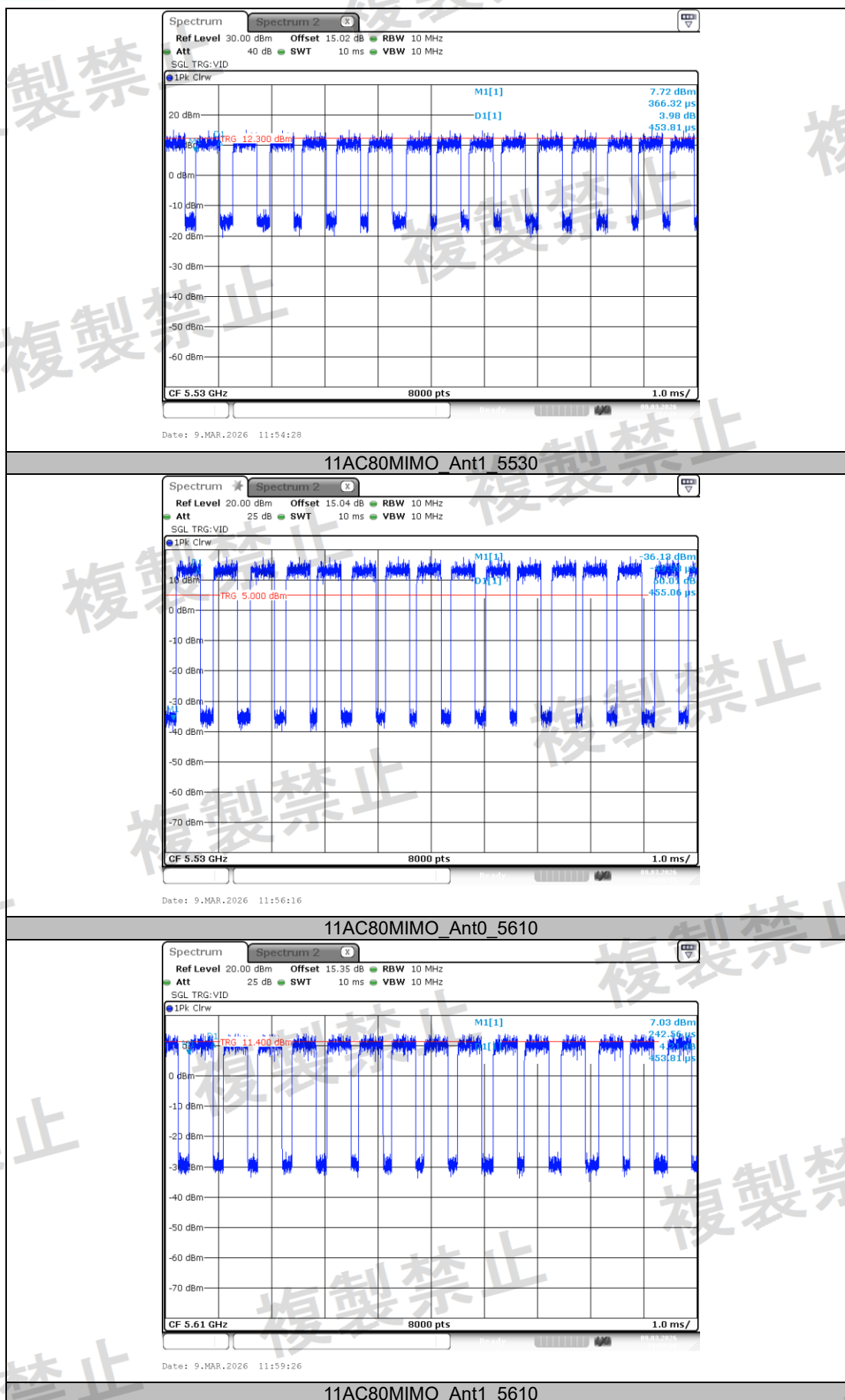
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### 3.9. Construction protection confirmation method

#### Requirement

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily

#### Confirmation method

RF and Modulation part are mounted on PCB with surface mount technology and there is no any adjustable part on PCB.

Reference to the test report No.: CTC2026084001.

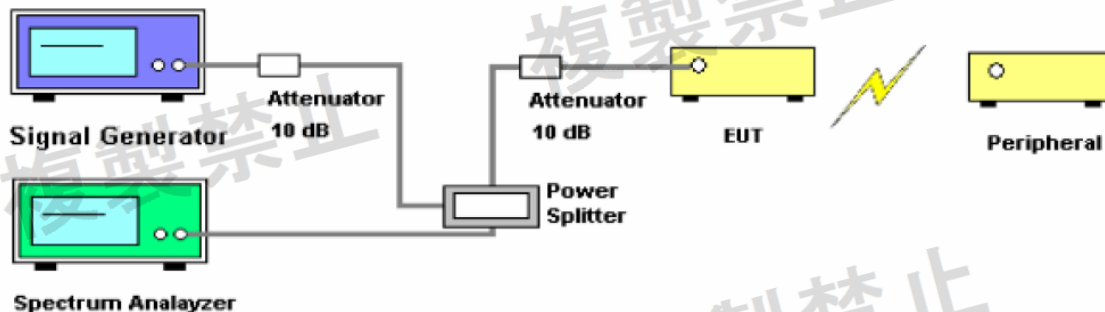


### 3.10. Carrier Sense Capability

#### Limit

EUT stop RF transmission signal after carrier inject to EUT for the OFDM system

#### TEST CONFIGURATION



#### TEST PROCEDURE

1. Set The EUT state in “normal mode link with wireless router”.
2. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is (on  $22.79 + G - 20 \cdot \log(f)$  dBm) (G is the antenna gain is the test frequency).
3. Turn off the RF signal of the SG.
4. EUT have transmitted the maximum modulation signal and fixed channelize.
5. Setting the spectrum as follow:  
RBW/VBW=1MHz/1MHz  
Span=50MHz  
Sweep time=Auto  
Sweep mode=Continuous  
Detect mode=Positive peak
6. SG RF signal on.
7. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous transmitted signal.

#### TEST RESULTS

GOOD, The carrier sense value is -50 dBm.

Note:  $P_{cs} [dBm] = 22.79 - 20 \cdot \log(f [MHz]) + \text{Antenna Gain}$

Antenna Gain: 2dBi

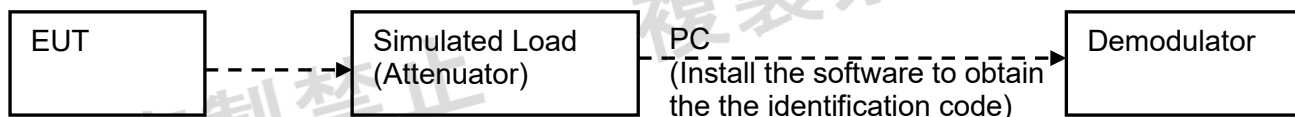


### 3.11. Interference Prevention Function

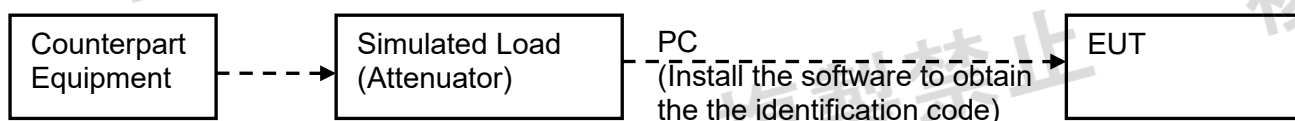
Chiefly the one automatically to transmit and to receive identification code with the wireless equipment of the wireless station used in the same premises

#### Measurement System Diagram

(1) When transmitting the identification code.



(2) When receiving the identification code



#### Procedure for Measuring Operation

(1) If the test machine has the function of automatically transmitting identification codes.

The test equipment transmits the identification code specified in the equipment regulations.

Verify the identification code transmitted by the demodulator.

(2) If the test equipment has the function of automatically receiving identification codes.

The opposing device transmits the identification code specified in the equipment regulations.

Confirm that communication with the test equipment is performed using a dedicated jig.

The opposing device transmits a code different from the identification code specified in the equipment regulations.

Verify that the test equipment stops transmission or indicates that the identification code is different

#### TEST RESULTS

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [版本 10.0.26200.7840]
(c) Microsoft Corporation. 保留所有权利。

C:\Users\CTC-ENC>adb shell
* daemon not running; starting now at tcp:5037
* daemon started successfully
# ifconfig
lo
  Link encap:Local Loopback
  inet addr:127.0.0.1  Mask:255.0.0.0
  UP LOOPBACK RUNNING  MTU:65536  Metric:1
  RX packets:0 errors:0 dropped:0 overruns:0 frame:0
  TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
  collisions:0 txqueuelen:1000
  RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

p2p0
  Link encap:Ethernet  HWaddr E2:01:C7:F3:81:A8
  inet addr:192.168.1.1  Bcast:192.168.1.255  Mask:255.255.255.0
  UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
  RX packets:0 errors:0 dropped:0 overruns:0 frame:0
  TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
  collisions:0 txqueuelen:1000
  RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)
```

We can get the information as follows:

E2:01:C7:F3:81:A8



### 3.12. Dynamic Frequency Selection

#### Test Requirement

Article 2 paragraph 1 item (19-3)

#### Test Method

Ordinance Regulating Radio Equipment No. 18, Article 49-20

#### Requirement

WAS/RLAN devices operating in slave mode (slave device) can be operated in a network controlled by a WAN/RLAN device operating in master mode (master device).

#### Test Results

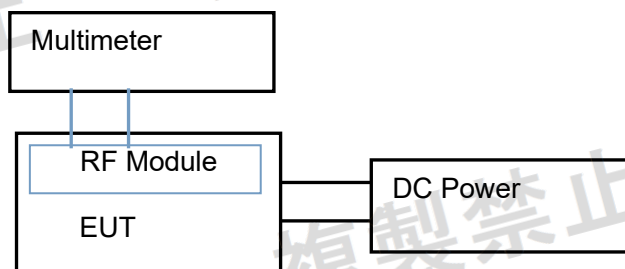
Can be operated in a network controlled by a WAN/RLAN device operating in master mode.



### 3.13. Condition for Voltage Stabilization

- In the case of a characteristic test in the technical regulations conformity certification, the power supply supplies the voltage rating
- Other cases  
The power supply supplies the voltage rating and the rating. However, when it can be confirmed that the change of the input voltage to the wireless part circuit of the testing machine is 1% or less when the input voltage to the testing machine from the external source changes at 10%, examines it only by the voltage rating.

#### TEST CONFIGURATION



#### TEST PROCEDURE

1. Use the DC power supplies the EUT, set the output power 3.70V.
2. Connect the BLE module power input ports to the Multimeter, record the voltage value.
3. Set respectively the DC power output 3.33V and 4.07V, record the Multimeter's voltage values.

| EUT supply power | RF module input power | Rated RF module power | Tolerance (%) |
|------------------|-----------------------|-----------------------|---------------|
| 3.33V            | 3.30V                 | 3.30V                 | 0             |
| 3.70V            | 3.30V                 | 3.30V                 | 0             |
| 4.07V            | 3.30V                 | 3.30V                 | 0             |

Conclusion: when the input voltage to EUT from the external source changes at 10%, the change of the input voltage to RF Module circuit of EUT is less 1%, another test item only need to test for normal condition.

\*\*\*\*\*THE END OF REPORT\*\*\*\*\*