



TEST REPORT

Report No.	:	TBR-C-202512-0125-13
Applicant	:	Shenzhen SDMC Technology Co.,Ltd.
Equipment Under Test (EUT)		
EUT Name	:	Wi-Fi BT Module
Model No.	:	CDW-N37663U-02
Series Model No.	:	----
Brand Name	:	N/A
Receipt Date	:	2024-04-22
Test Date	:	2024-04-23 to 2024-05-28
Issue Date	:	2026-01-05
Rule Part(s)	:	MIC Notice No.88 Annex 44
Test Standards	:	ARIB STD-T33 Article 2 paragraph 1 item 19-2
Conclusions	:	PASS
		In the configuration tested, the EUT complied with the standards specified above.
Tested By	:	Gold Zhang Gold Zhang
Reviewed By	:	Wade Lv Wade Lv
Approved By	:	Ivan Su Ivan Su

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

Report No.	Version	Description	Issued Date
TBR-C-202403-0360-13	Rev.01	Initial issue of report	2024-05-29
TBR-C-202412-0157-13	Rev.02	Add a WiFi antenna (YX-PH1020-WIFI0-V2.0&YX-PH1020-WIFI1-V2.0)	2025-01-18
TBR-C-202512-0125-13	Rev.03	Add a WiFi antenna (SLK-CZ-3216 WIFI1 DP6G & SLK-CZ-2322 V1 WIFI2 DP6G) and Update the address of applicant&manufacturer	2026-01-05

Note: The Gain of WiFi antenna (SLK-CZ-3216 WIFI1 DP6G & SLK-CZ-2322 V1 WIFI2 DP6G) is smaller than that of the original antenna, So the test data refer to the original test report.



1. General Information

1.1 Description of Device (EUT)

EUT	:	Wi-Fi BT Module
Model(s) No.	:	CDW-N37663U-02
Model Difference	:	----
Power supply	:	DC 3.3V
Radio Technology	:	802.11b
Operation frequency	:	802.11b: 2484MHz
Modulation	:	802.11b:DSSS(CCK, DQPSK, DBPSK)
Antenna Type	:	Please see the Clause 1.3
Declared Output Power	:	802.11b: 2.5mW/MHz
Applicant	:	Shenzhen SDMC Technology Co.,Ltd
Address	:	Floor 1, Building 5, Hengtongfa Industrial Zone, Tangtou Industrial Park, Tangtou Community, Shiyan Street, Baoan District, Shenzhen, China
Manufacturer	:	Shenzhen SDMC Technology Co.,Ltd
Address	:	Floor 1, Building 5, Hengtongfa Industrial Zone, Tangtou Industrial Park, Tangtou Community, Shiyan Street, Baoan District, Shenzhen, China
Software Version	:	----
Hardware Version	:	----
Remark: (1)More test information about 802.11b/g/n(CH1-CH13) please refer to other test report. (2)The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab. (3)The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.		



1.2 Channle List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	06	2437	11	2462
02	2417	07	2442	12	2467
03	2422	08	2447	13	2472
04	2427	09	2452	14	2484
05	2432	10	2457		
Note: CH 01~CH 13 for 802.11b/g/n(HT20) CH 03~CH 11 for 802.11n(HT40) Only 802.11b permit transmitting within 2484MHz					

1.3 Antenna Information

Antenna (XINGHE)				
Antenna Type: FPC	Model:	YX-PH1020-WIFI0-V1.0	Max. Gain:	2.4GWiFi: 3.56dBi
		YX-PH1020-WIFI1-V1.0	Max. Gain:	2.4GWiFi: 3.67dBi
				
Antenna(YIJIA)				
Antenna Type: FPC	Model:	YJ-W0-24-13	Max. Gain:	2.4GWiFi: 3.80dBi
		YJ-W1-24-13	Max. Gain:	2.4GWiFi: 3.20dBi
				



Antenna(yGalax)				
Antenna Type: FPC	Model:	YX-PH1020-WIFI0-V2.0	Max. Gain:	2.4GWiFi: 3.55dBi
		YX-PH1020-WIFI1-V2.0	Max. Gain:	2.4GWiFi: 3.65dBi
				
Newly added antenna				
Antenna (Yishengbang)				
Antenna Type: FPC	Model:	SLK-CZ-3216 WIFI1 DP6G	Max. Gain:	2.4GWiFi: 2.77dBi
		SLK-CZ-2322 V1 WIFI2 DP6G	Max. Gain:	2.4GWiFi: 2.90dBi
				
Note: This module will use four different WiFi antennas, and only the one with the larger antenna gain(Antenna1: 3.80dBi; Antenna2: 3.67dBi) will be used for test.				



2. Description of Test

2.1 Summary of Test

CLAUSE (ARIB STD-T66)	TEST PARAMETER	RESULTS
Transmitter Parameters		
3.2 (2)	Antenna Power	PASS
3.2 (3)	Tolerances for Antenna Power	PASS
3.2 (4)	Frequency Tolerance	PASS
3.2 (5)	Transmission Rate	PASS
3.2 (7)	Occupied Frequency Bandwidth	PASS
3.2 (8)	Spread Bandwidth	PASS
3.2 (9)	Process Gain	PASS
3.2 (10)	Number of Carriers	PASS
3.2 (11)	Dwell Time	N/A
3.2 (6)	Spurious Emissions	PASS
/	Interference prevention function	PASS
/	Carrier Sensing function	PASS
Receiver Parameters		
3.3 (1)	Secondary Radiated Emissions	PASS
Note: N/A is an abbreviation for Not Applicable.		



2.2 Assistant Equipment Used for Test

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	Trade Name
Notebook	HYLR-WFQ9	AAMFPM1418000165	honour

2.3 Block Diagram of Test Setup



Test PC run test software provided by client to control EUT work in test mode as described in clause 2.4

2.4 Test Mode Description

The test software (**QATool_Dbg.exe**) was used to control EUT work in Continuous TX mode, and select test channel, wireless mode:

Tested Mode, Channel and Parameters Information			
Mode	Channel Fre.(MHz)	Parameters	
		Antenna 1	Antenna 2
802.11b	2484	1A	1A
Note: Some modes not apply for all the test items.			

Test Voltage Information		
Power supply voltage 3.3V DC (Normal)	Power supply voltage 3.63V DC (+10%)	Power supply voltage 2.97V DC (-10%)
RF module voltage DC 3.3V	RF module voltage DC 3.3V	RF module voltage DC 3.3V
When EUT be operated at 10% from the normal supply voltage, the supply voltage of RF part was varied within 1%. All test cased were done under the normal supply voltage. Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.		

Equipment No.	Factory number	Instrument name in English	Test range	Name of manufacturer and model	uncertainty	Calibration time	next time the calibration time
TB-079	C011238	Digital Oscilloscope	100MHz, 1.25GS/s	Tektronix TDS3014B	U=0.4% (K=2) U=0.2% (K=2) U=3.7% (K=2) U=0.2S (K=2)	2023-06-21	2024-06-20
TB-183	W21091606020P01	DC power supply	DC 0-60V, 0-20A	WTKS POWER WSD-6020	DCV:Urel=0.5% DCA:Urel=0.5%	2023-11-28	2024-11-27
Calibration agencies:				Guangzhou LiSai Metrology & Test Co., Ltd. CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd			
Note: Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law.							



2.5 Test Conditions

Temperature range	23.9°C
Humidity range	49%
Pressure range	86-106kPa

2.6 Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Bandwidth	0.2KHz	/
Antenna Power	0.33dB	/
Frequency Tolerance	2.8×10^{-4} MHz	/
Conducted spurious emission	0.13dB	/

2.7 Test Lab Information

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F.,Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.

2.8 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde&Schwarz	FSV40-N	102197	Jun. 20, 2023	Jun. 19, 2024
MXA Signal Analyzer	Agilent	N9020A	MY47380425	Aug. 30, 2023	Aug. 29, 2024
RF Control Unit	Tonsced	JS0806-2	21F8060439	Aug. 30, 2023	Aug. 29, 2024
Analog Signal Generator	Agilent	N5181A	MY48180463	Aug. 30, 2023	Aug. 29, 2024
Vector Signal Generator	KEYSIGHT	N5182B	MY59101429	Aug. 30, 2023	Aug. 29, 2024
Calibration agencies:			Guangzhou LiSai Metrology & Test Co., Ltd. CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd		
Note: Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law.					



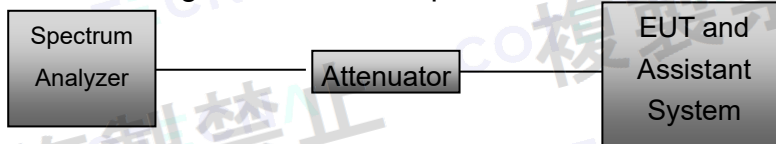
3. Transmitter Test

3.1 Frequency Error

3.1.1 Test Limit

+/- 50×10^{-6} or less (50ppm)

3.1.2 Block Diagram of Test Setup



3.1.3 Test Procedure

- (1) Configure EUT and assistant system according clause 2.4 and 4.3
- (2) Set EUT work in carrier Tx mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable

attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 10 KHz.

Video BW: 10 KHz.

Span: 1MHz.

Detector: Peak.

Trace Mode: Max Hold.

- (4) When the trace is complete, find the peak value of the power envelope and record the frequency.

3.1.4 Deviation From Test Standard

No deviation

3.1.5 Test Result

Please refer to the Appendix A.

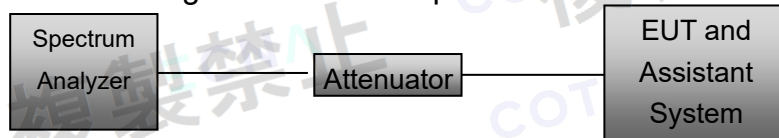


3.2 Antenna Power

3.2.1 Test Limit

Mode	Limit	Remark
802.11b (CH14)	$\leq 10\text{mW/MHz}$	Output Power
Tolerance: -80%, +20%		
802.11b (CH14)	$\leq 12.14\text{dBm/MHz}$	E.I.R.P Power

3.2.2 Block Diagram of Test Setup



3.2.3 Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

Centre Frequency: The centre frequency of the channel under test.

RBW: 1 MHz/VBW: 1 MHz/ Span: Wide enough to cover the complete power envelope of the signal of the EUT. / Detector: Peak. / Trace Mode: Max Hold.

When the trace is complete, find the peak value of the power envelope. Calculated the Maximum deviation and recorded the results.

3.2.4 Deviation From Test Standard

No deviation

3.2.5 Test Result

Please refer to the Appendix B.

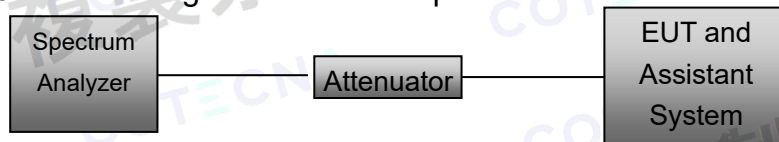


3.3 Occupied Bandwidth

3.3.1 Test Limit

Permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a system other than any of the above shall be 26 MHz or less.

3.3.2 Block Diagram of Test Setup



3.3.3 Test Procedure

Setting of SA is following as: RBW:300 kHz / VBW: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold

EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26 MHz (For DSSS or OFDM Device) or 83.5 MHz (For FHSS Device).

3.3.4 Deviation From Test Standard

No deviation

3.3.5 Test Result

Please refer to the Appendix C.

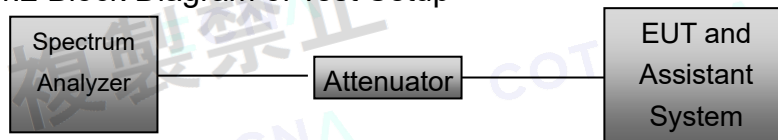


3.4 Spread Bandwidth

3.4.1 Test Limit

ITEM	LIMIT	REMARK
SPREADING FACTOR	≥ 10	Operating frequency 2484MHz
SPREADING BANDWIDTH	$\geq 500\text{kHz}$	

3.4.2 Block Diagram of Test Setup



3.4.3 Test Procedure

Setting of SA is following as: RBW:300 kHz / VBW: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold

EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode (For FHSS Device). SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth and must greater than 500 kHz.

3.4.4 Deviation From Test Standard

No deviation

3.4.5 Test Result

Please refer to the Appendix D.



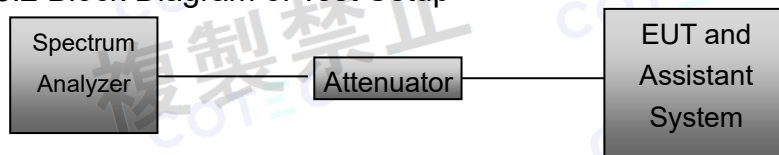
3.5 Spurious Emission of TX

3.5.1 Test Limit

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:

FREQUENCIES (MHz)	LIMIT
30.0MHz to 2458MHz	$\leq 2.5\mu\text{W}/\text{MHz}$
2458.0MHz to 2471.0MHz	$\leq 25\mu\text{W}/\text{MHz}$
2497.0MHz to 2510.0MHz	$\leq 25\mu\text{W}/\text{MHz}$
2510.0MHz to 13000.0MHz	$\leq 2.5\mu\text{W}/\text{MHz}$

3.5.2 Block Diagram of Test Setup



3.5.3 Test Procedure

- (1) Configure EUT and assistant system according clause 2.4 and 8.3
- (2) Set EUT work in test mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Below 1G: BW: 100kHz. Video BW: 100kHz.

Above 1G: BW: 1MHz. Video BW: 1MHz.

Detector: Peak. Trace Mode: Max Hold.

- (4) All the emissions from 30MHz to 13.0GHz were measured and record.

3.5.4 Deviation From Test Standard

No deviation

3.5.5 Test Result

Please refer to the Appendix E.



3.6 Number of Carriers

3.6.1 Test Limit

The OFDM system shall have one or more carriers per 1 MHz bandwidth.

3.6.2 Block Diagram of Test Setup



3.6.3 Deviation From Test Standard

No deviation

3.6.4 Test Result

ENVIRONMENTAL CONDITIONS	23.6deg.C, 43% RH
TEST RESULT	This device has more than 1 subcarrier in 1MHz, Compliances with the requirement.



3.7 Interference Prevention Function

3.7.1 Test Limit

Item	Limits
Identification	≥48 bits
MAC IP List	MAC Scan

3.7.2 Block Diagram of Test Setup



3.7.3 Test Procedure

1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

3.7.4 Deviation From Test Standard

No deviation

3.7.5 Test Result

Temperature:	23.3℃	Humidity:	47%RH
Mac:	40:9C:A7:06:65:23		
Test result:	CONFORM		
Tested by:	Mike Yan		

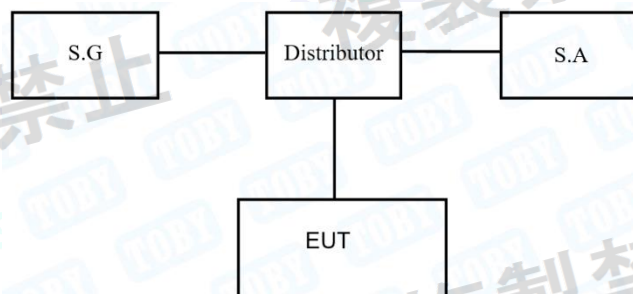


3.8 Carrier Sensing Function

3.8.1 Test Limit

Item	Limits
Identification	≥48 bits
MAC IP List	MAC Scan

3.8.2 Block Diagram of Test Setup



(EUT operate in multiple outputs: The measurement was performed by combiner.)

3.8.3 Test Procedure

1. Turn the standard signal generator output OFF. Leave the equipment under test to be ready for transmission and verify the transmission with the spectrum analyzer.
2. Set the equipment under test to the receiving state.
3. Turn the standard signal generator ON and leave the equipment under test to be ready for transmission and verify with the spectrum analyzer that no transmission is being made.

3.8.4 Deviation From Test Standard

No deviation

3.8.5 Test Result

Not Applicable



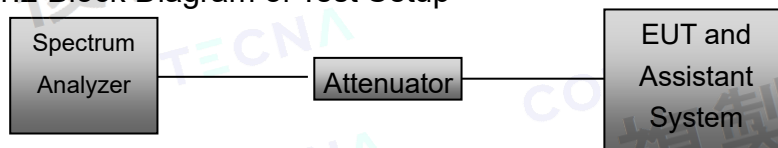
4. Receiver Test

4.1 Secondary Radiated Emissions

4.1.1 Test Limit

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

4.1.2 Block Diagram of Test Setup



4.1.3 Test Procedure

- (1) Configure EUT and assistant system according clause 2.4 and 8.3
- (2) Set EUT work in test mode as described in clause 2.4
- (3) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
 - Below 1G: BW: 100kHz. Video BW: 100kHz.
 - Above 1G: BW: 1MHz. Video BW: 1MHz.
 - Detector: Peak. Trace Mode: Max Hold.
- (4) All the emissions from 30MHz to 13.0GHz were measured and record.

4.1.4 Deviation From Test Standard

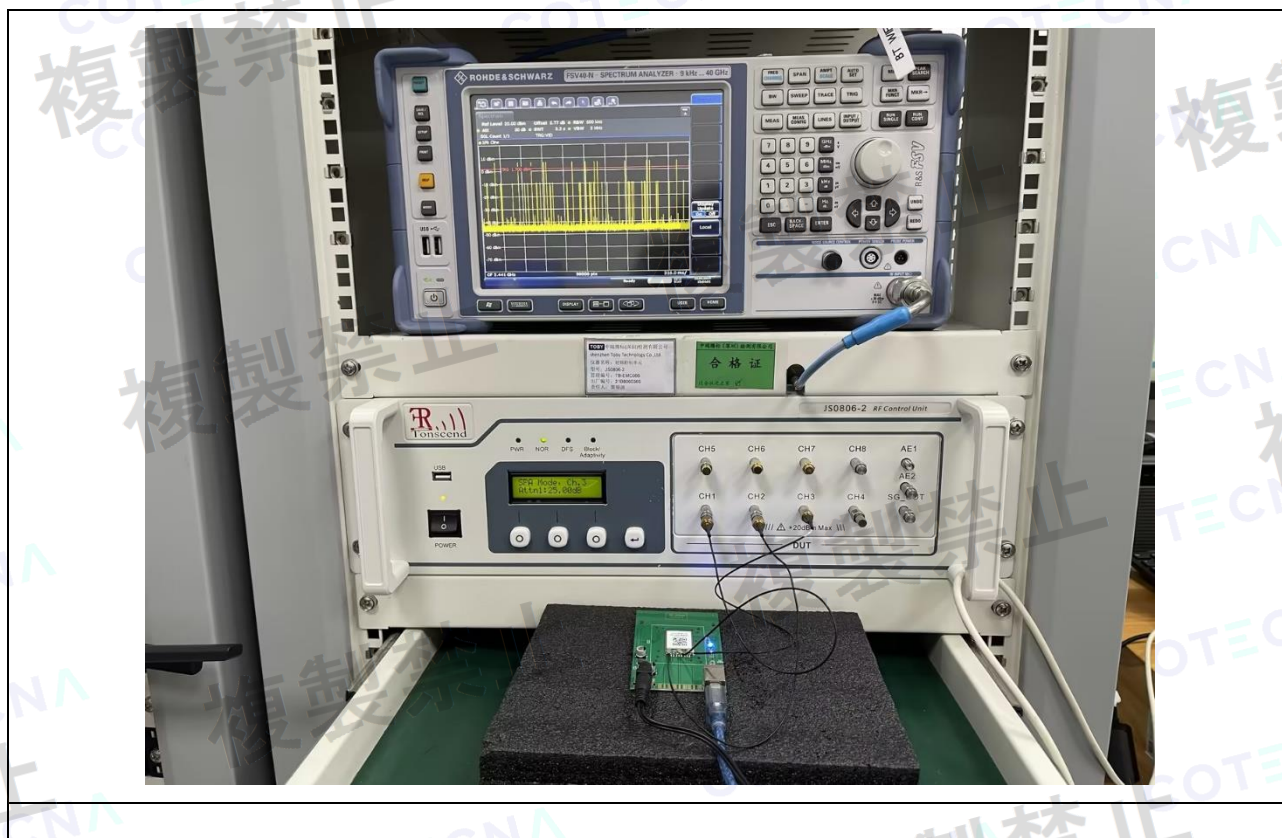
No deviation

4.1.5 Test Result

Please refer to the Appendix F.



5. Test Setup Photos



6. EUT Photos

Reference to the test report No.: TBR-C-202512-0125-1.

7. Label Information

Reference to the test report No.: TBR-C-202512-0125-1.

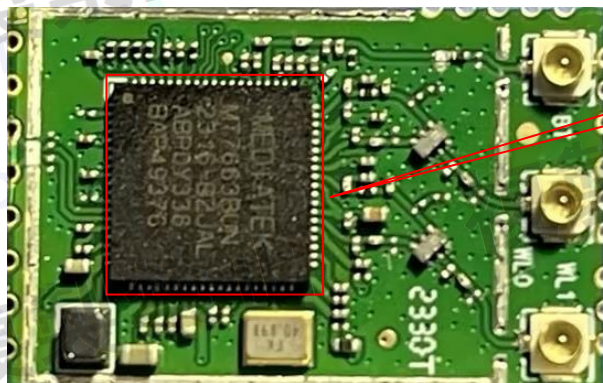
8. Construction Protection Confirmation Method

8.1 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.

8.2 Confirmation Method

RF module is welded directly to PCB board. So the end user can not to modify or change the RF Parts easily.



RF MODULE



Appendix A: Frequency Error

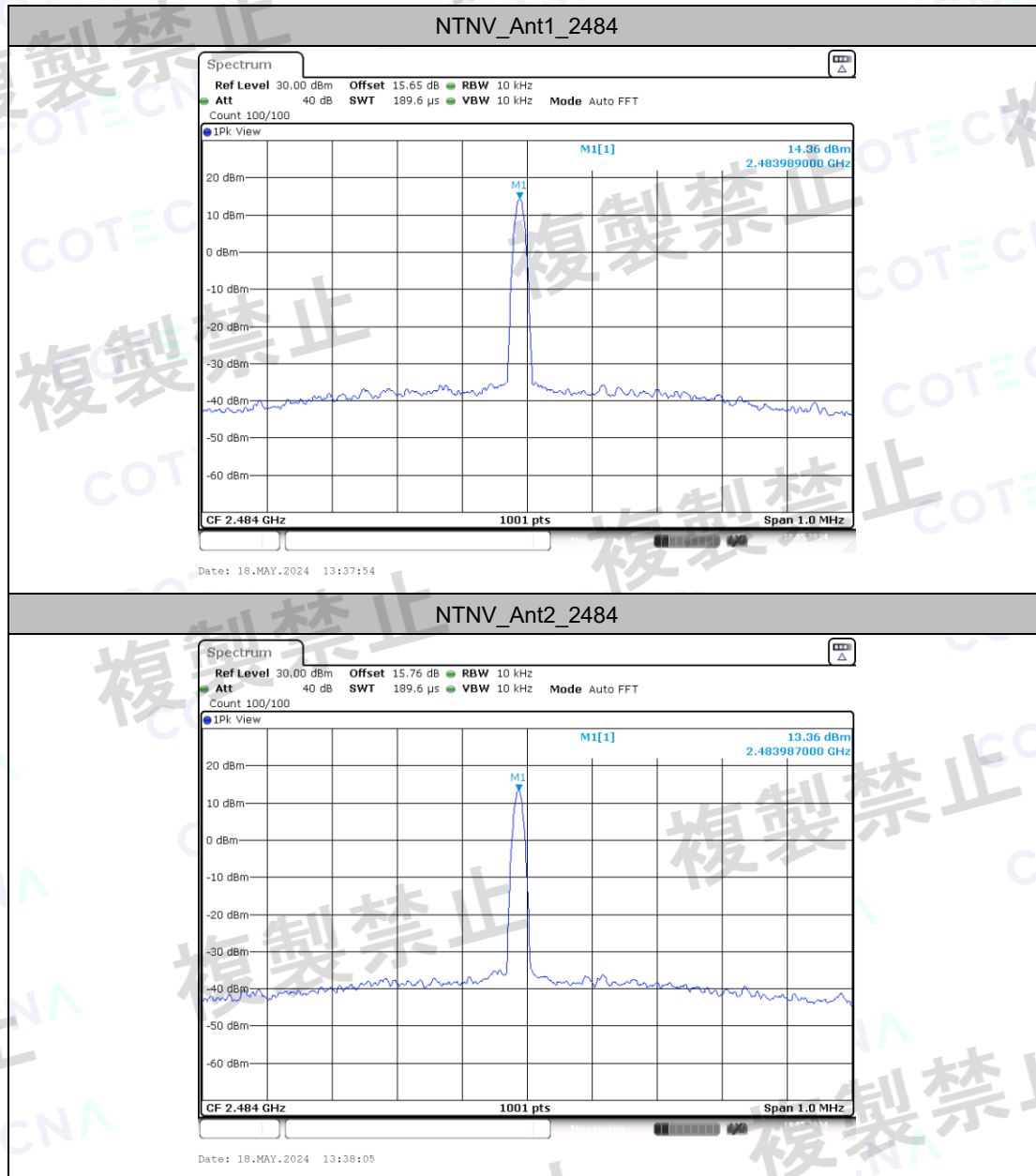
Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	Carrier	Ant1	2484	-4.42834	±50	PASS
	Mode	Ant2	2484	-5.23349	±50	PASS

Remark: Only show the test data of worst condition.



Test Graphs



Appendix B: Antenna Power

Test Result

Remark: Only show the test data of worst condition.

Antenna Power							
Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	Result (mW/MHz)	Limit (mW/MHz)	Verdict
NTNV	11B	Ant1	2484	4.14	2.5942	≤10	PASS
		Ant2	2484	4.24	2.6546	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11B	Ant1	2484	2.5942	2.5	3.77	-80%~+20%	PASS
		Ant2	2484	2.6546	2.5	6.18	-80%~+20%	PASS

EIRP							
Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	11B	Ant1	2484	4.14	7.94	≤12.14	PASS
		Ant2	2484	4.24	7.91	≤12.14	PASS



Appendix C: Occupied Bandwidth

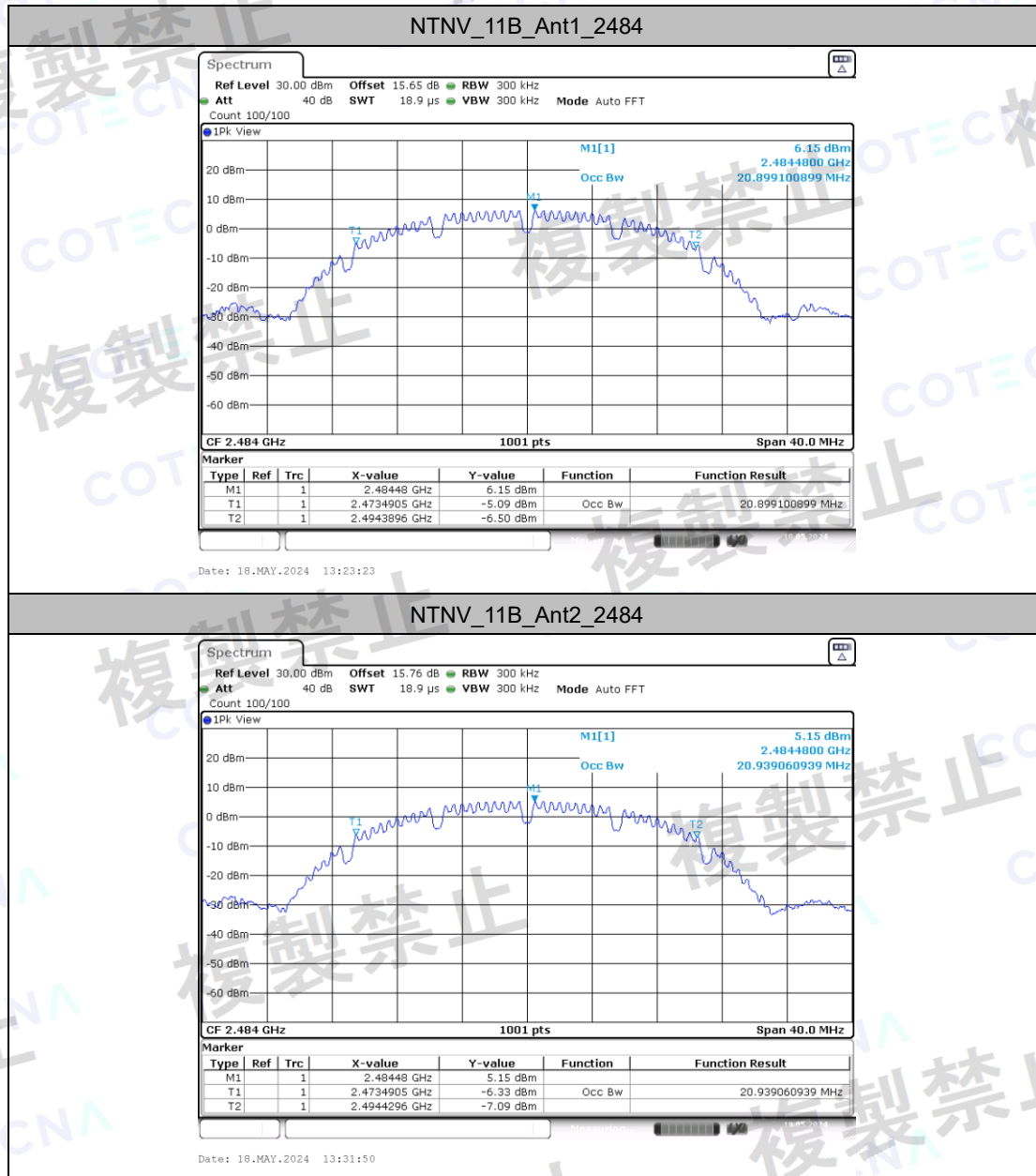
Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11B	Ant1	2484	20.899	≤26	PASS
		Ant2	2484	20.939	≤26	PASS

Remark: Only show the test data of worst condition.



Test Graphs



Appendix D: Spread Bandwidth

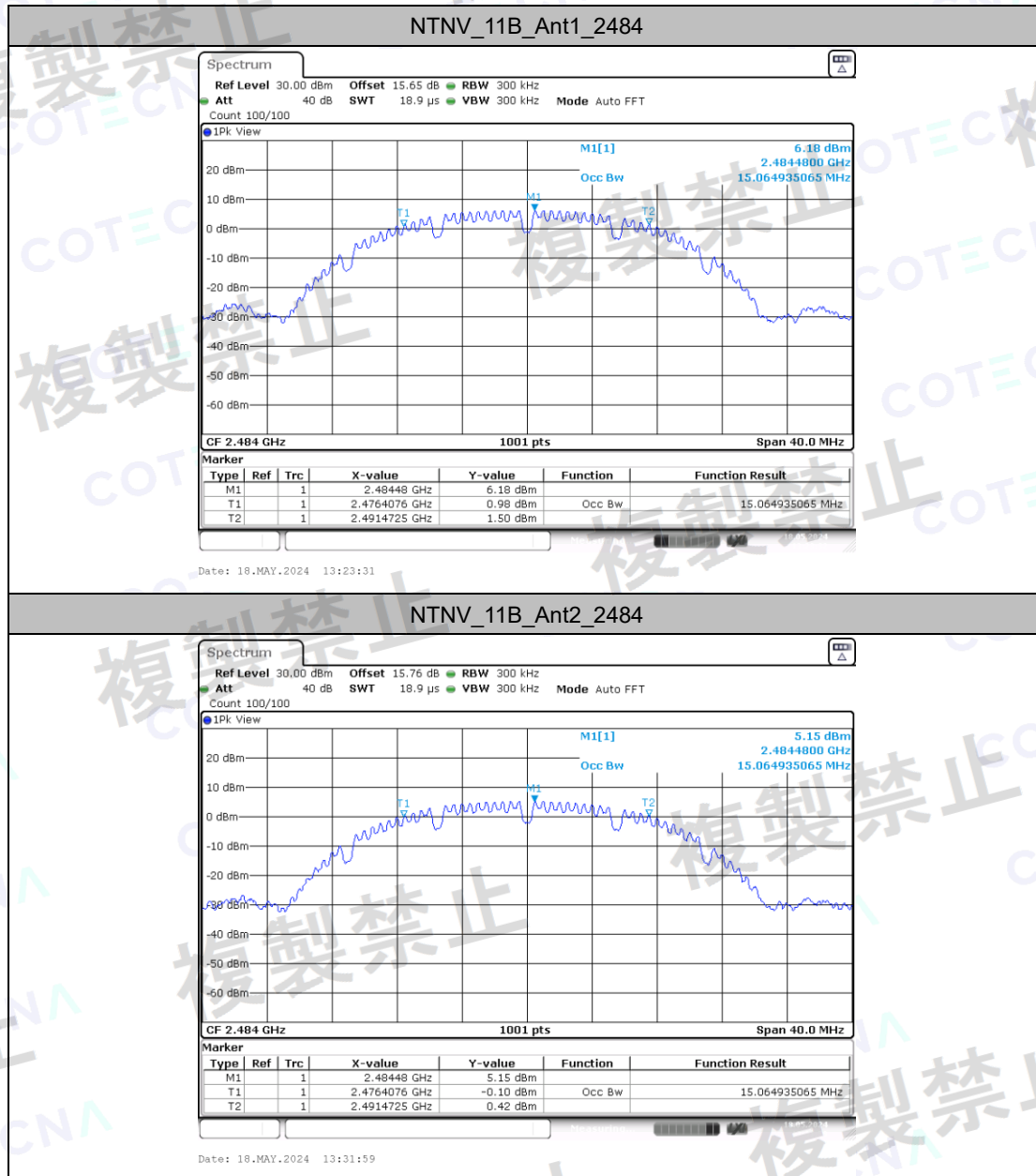
Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTNV	11B	Ant1	2484	15.065	≥0.5	10.956	>5	PASS
		Ant2	2484	15.065	≥0.5	10.956	>5	PASS

Remark: Only show the test data of worst condition.



Test Graphs



Appendix E: Spurious Emission of TX

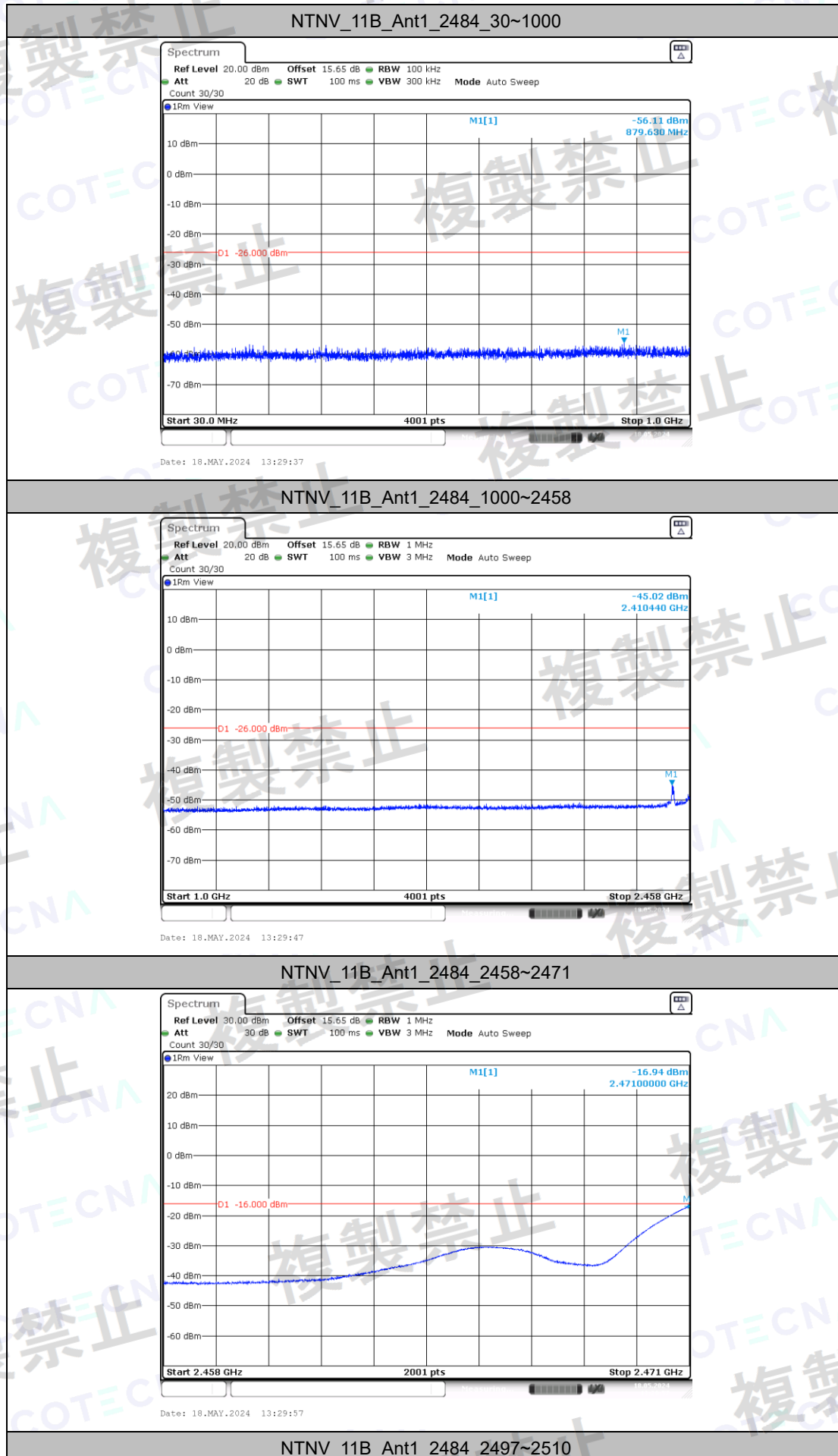
Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11B	Ant1	2484	30~1000	-56.11	≤-26	0.00245	≤2.5	PASS
				1000~2458	-45.02	≤-26	0.03148	≤2.5	PASS
				2458~2471	-16.94	≤-16	20.23019	≤25.1	PASS
				2497~2510	-18.12	≤-16	15.41700	≤25.1	PASS
				2510~13000	-42.15	≤-26	0.06095	≤2.5	PASS
		Ant2	2484	30~1000	-56.58	≤-26	0.00220	≤2.5	PASS
				1000~2458	-48.48	≤-26	0.01419	≤2.5	PASS
				2458~2471	-17.05	≤-16	19.72423	≤25.1	PASS
				2497~2510	-18.00	≤-16	15.84893	≤25.1	PASS
				2510~13000	-42.10	≤-26	0.06166	≤2.5	PASS

Remark: Only show the test data of worst condition.

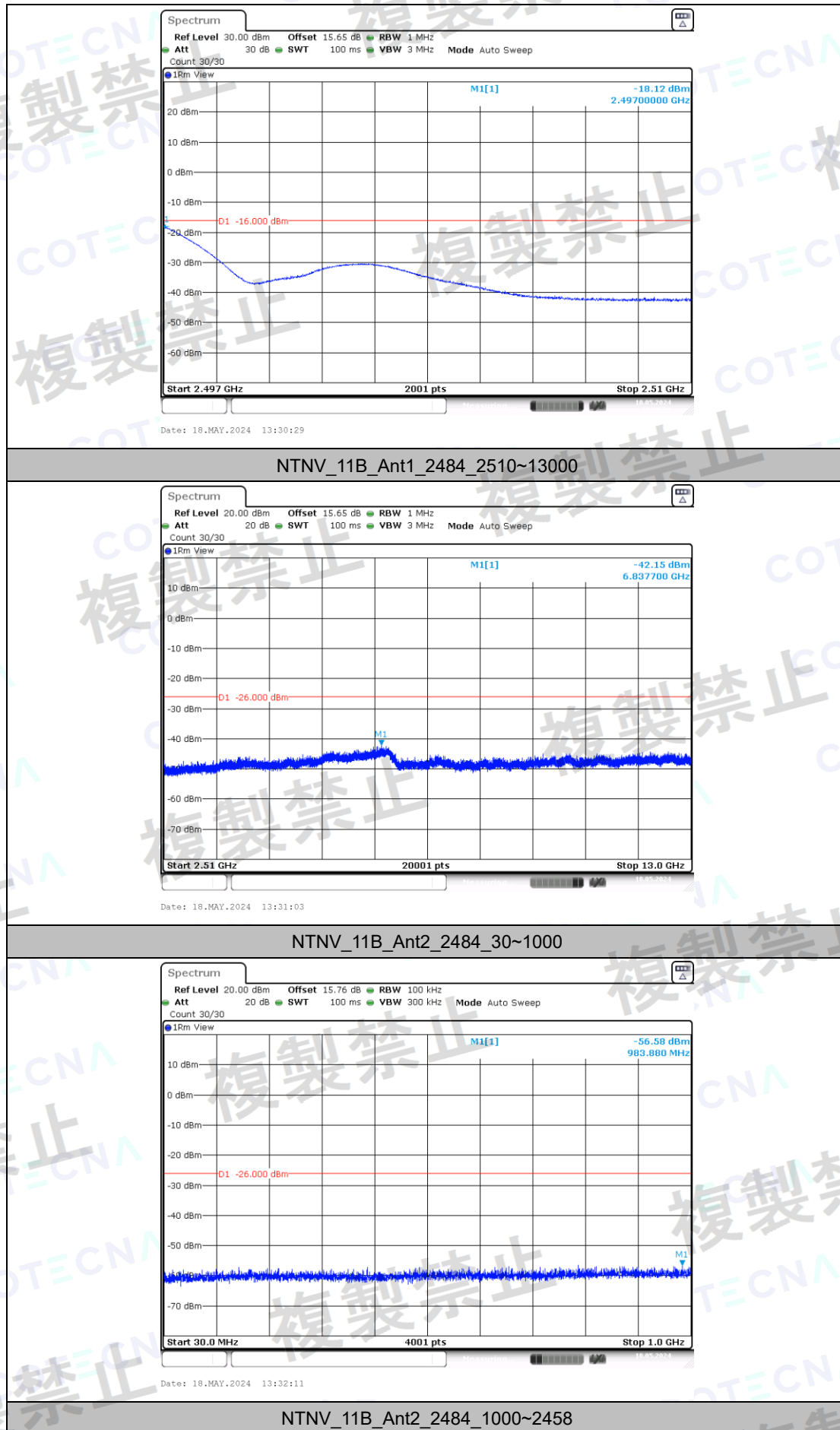


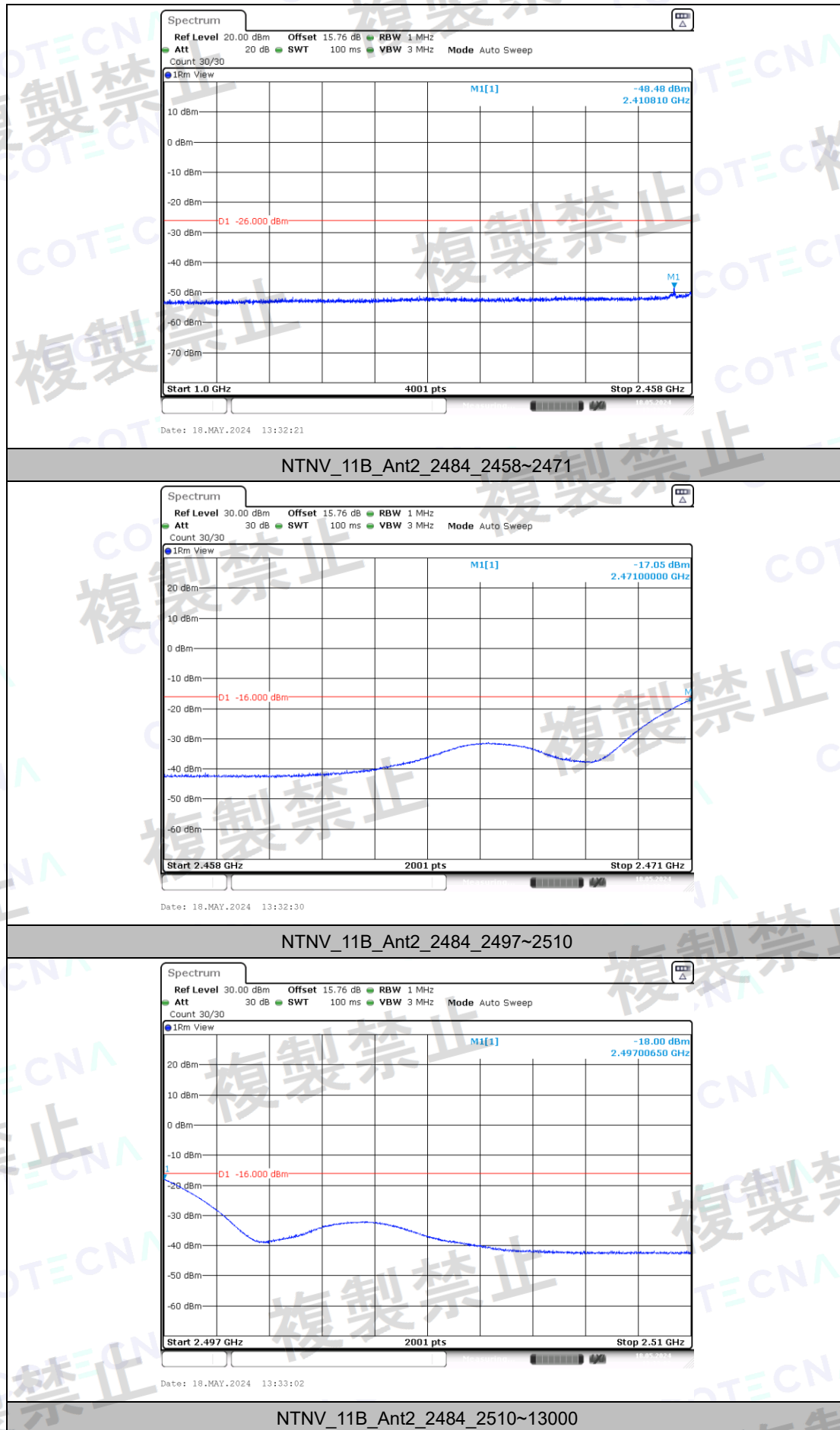
Test Graphs

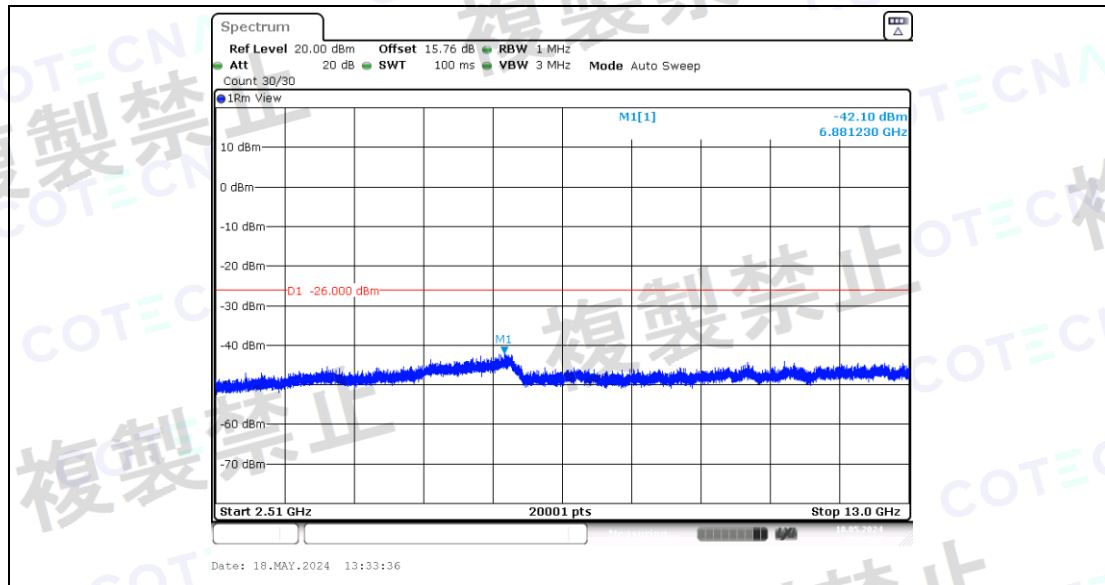


NTNV_11B_Ant1_2484_2497~2510









Appendix F: Spurious Emission of RX

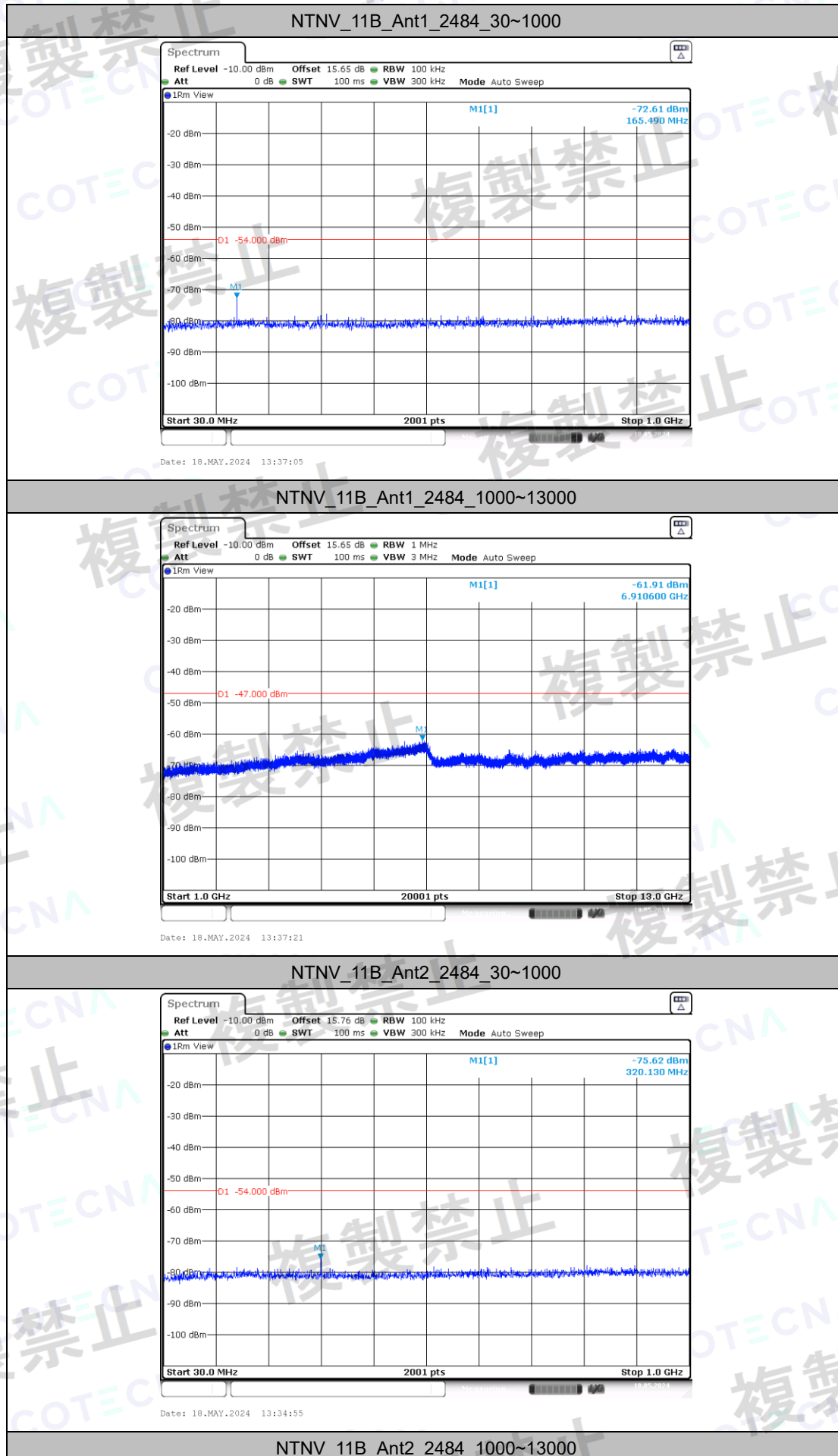
Test Result

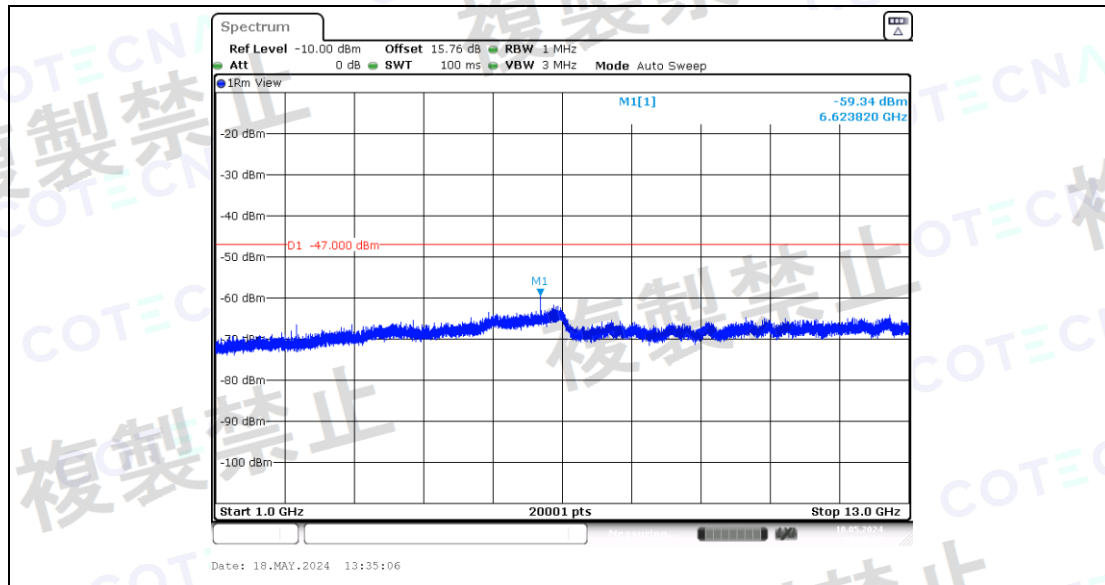
TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11B	Ant1	2484	30~1000	-72.61	≤-54	0.05483	≤4	PASS
				1000~13000	-61.91	≤-47	0.64417	≤20	PASS
		Ant2	2484	30~1000	-75.62	≤-54	0.02742	≤4	PASS
				1000~13000	-59.34	≤-47	1.16413	≤20	PASS

Remark: Only show the test data of worst condition.



Test Graphs





-----END OF THE REPORT-----

