

**Radio equipment according to Certification
Ordinance Article 2 Section 1 No.19
According to MIC Notice No. 88 Appendix 43
for
marine product
Model No.: AE3545**

of

Applicant: Garmin Corporation
Address: No. 68, Zhangshu 2nd Road, Xizhi District, New Taipei City 221019,
Taiwan, R.O.C.

Tested and Prepared

By

Worldwide Testing Services (Taiwan) Co., Ltd.

Report No.: W6M22605-25139-J-1

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wts@wts-lab.com



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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample, which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services (Taiwan) Co., Ltd.
4. Antenna gain is provided by applicant and laboratory issue relevant data and results.



Worldwide Testing Services(Taiwan) Co., Ltd.

Tester:

June 12, 2026

Sky Lu

Sky

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

June 12, 2026

Kevin Wang

Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

1.2 Testing laboratory

1.2.1 Location

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3m meter semi-anechoic chamber

No. 99, Sec. 1, Balian Rd., Xizhi Dist.,
New Taipei City 221032, Taiwan (R.O.C.)

Worldwide Testing Services (Taiwan) Co., Ltd.
6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)
Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory

Telefication Reviewed Laboratory: TRL 0501

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd.:

Name	: ./.
Accredited no.	: ./.
Street	: ./.
Town	: ./.
Country	: ./.

1.3 Details of applicant

Name	: Garmin Corporation
Street	: No. 68, Zhangshu 2nd Road, Xizhi District,
City	: New Taipei City 221019,
Country	: Taiwan, R.O.C.

1.4 Application details

Date of receipt of test item	: May 25, 2026
Date of test	: from May 25, 2026 to June 10, 2026



1.5 Equipment information

Description of test item	: marine product
Type identification	: AE3545
Brand name	: GARMIN
Modulation type	: DSSS / OFDM
Frequency range	: 2.4 GHz - 2.4835 GHz
Tested frequencies	: 2.412 – 2.472 GHz
Frequency of the used channel	: 802.11 b/g/n 20MHz Frequency (ch 1) : 2.412 GHz Frequency (ch 6) : 2.437 GHz Frequency (ch 11): 2.462 GHz
Type of antenna	: PCB Antenna
Antenna gain	: 2.02967 dBi
Rated output power	: 802.11b: 10 mW/MHz 802.11g: 10 mW/MHz 802.11n 20MHz: 10 mW/MHz
Sample no.	: #01
Power setting	: 23dBm

Manufacturer: (if different from applicant)

Name	: ./.
Street	: ./.
City	: ./.
Country	: ./.

1.6 Assembly

Special screw will be used for preventing access RF part directly. For this EUT is opening only by destroying the equipment have been taken to satisfy sample requirement.

1.7 Test method

According to MIC Notice No. 88 Appendix 43.

2 Technical Test

2.1 Summary of test results

No deviations from the technical specifications were ascertained in the course of the test performed.

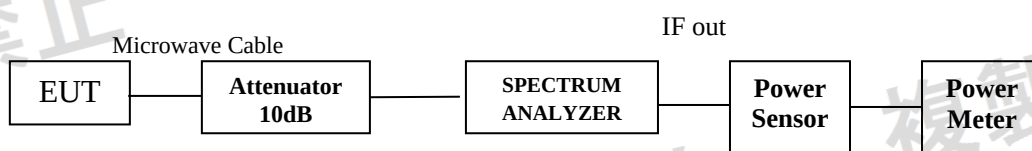
2.2 Test environment

Temperature	: 5° C - 35 ° C
Relative humidity content	: 45% - 85%
Air pressure	: 990 - 1300 hPa
Details of power supply	: 12 or 24V=250mA Max
Other parameter	: ./.
Extreme conditions parameters	: V _{nom} : -- VAC V _{min} : -- VAC V _{max} : -- VAC

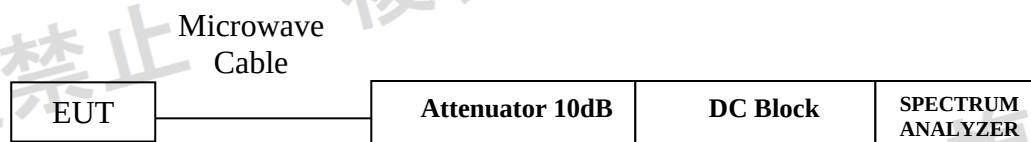
Additional information : There are 3 testing modes in the test report.
Mode A: IEEE 802.11b
Mode B: IEEE 802.11g
Mode C: IEEE 802.11n 20MHz

2.3 Test setup

WLAN Antenna power



Frequency tolerance, Occupied bandwidth, Spreading bandwidth and Spurious emission





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Test item Name	Measurement Uncertainty
Estimation Result of Uncertainty of Frequency Drift Measurement	Expanded Uncertainty : 6.11 Hz
Estimation Result of Uncertainty of Bandwidth Measurement	Expanded Uncertainty : 0.37 kHz
Estimation Result of Uncertainty of Conducted Output Power Measurement	Expanded Uncertainty : 1.49 dB

The decision rule is: Measurement uncertainty is not included in the calculation of test results.



2.4 Test equipment utilized

Conducted Spurious Emission & Frequency Tolerance & OCCUPIED BANDWIDTH & SPREADING BANDWIDTH & EIRP POWER

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date	Calibration Body	Calibration Method
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2026/2/13	2027/2/12	WTS	C
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2026/3/12	2027/3/11	ITRI	C
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2026/2/13	2027/2/12	WTS	C
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2026/2/13	2027/2/12	WTS	C

Conducted Spurious Emission

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date	Calibration Body	Calibration Method
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2026/2/13	2027/2/12	WTS	C
ETSTW-RE 133	EXA Signal Analyzer	N9010A	MY53470566	Agilent	2026/5/14	2027/5/13	ITRI	C
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2026/2/13	2027/2/12	WTS	C
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2026/2/13	2027/2/12	WTS	C

Calibration Method:

- Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
- Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
- Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)



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3 Test results (enclosure)

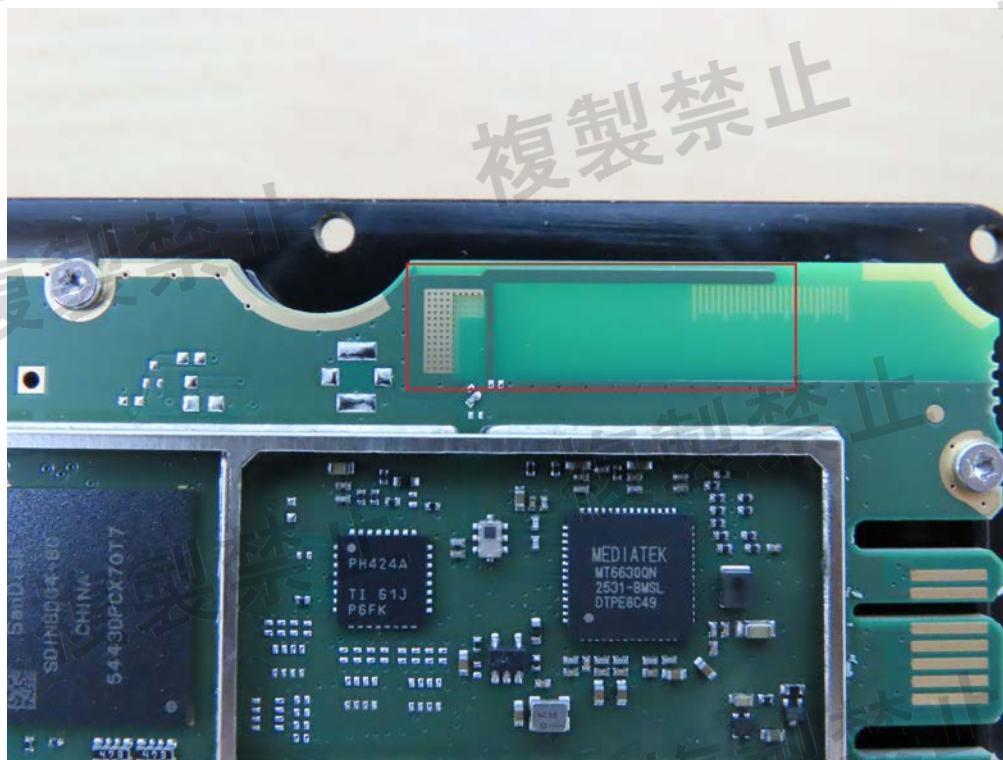
☒ 1st test

☐ test after modification

☐ production test

Test case	Subclause	Required	Status
<i>General provisions</i>			
Frequency tolerance	5	☒	C
Occupied bandwidth	6	☒	C
Spurious emissions	7	☒	C
<i>Transmitting equipment</i>			
Antenna power	14	☒	C
SAR	14.2	☐	NA
Frequency stabilization	15	☒	C
<i>Transmitter antenna</i>			
Type, configuration, etc. of transmitting antenna	20	☒	C
Directional pattern of transmitting antenna	22	☒	C
<i>Receiving equipment</i>			
Spurious emission of receiver	24	☒	C
Refer to all articles for transmitter antenna	26	☒	C
<i>Operating frequency 2412-2462MHz</i>			
High Frequency/modulation section cannot be opened easily	49.20(1); a	☒	C
Spread spectrum method	49.20(1); d	☒	C
Antenna power	49.20(1); e	☒	C
Absolute gain of transmitting antenna	49.20(1); f(1)	☒	C
Angular width of principal radiation (AWPR)	49.20(1); f(2)	☒	C
Number of carriers within 1 MHz bandwidth in OFDM	49.20(1); g	☒	C
Frequency retention time (FH employed)	49.20(1); j	☐	NA
Carrier sensing function	49.20(1); k	☐	C
Interference Prevention Function	9-4. 8	☒	C
Note 1: C = Conform NC = Not Conform NT = Not Tested NA = Not Applicable			

3.1 Antenna specifications



PCB Antenna / 2.02967 dBi

Voltage variation

Test Condition	Voltage Condition	Voltage Input (V)	Voltage Output (V)	Tolerance (%)
DC 12V	Normal	12	1.58	0%
	middle	24	1.58	0%
	Low	9	1.58	0%
	High	32	1.58	0%

The influence of input voltage to output voltage is within 1%.

Therefore we performed test under normal voltage DC 12V.



3.2 Frequency Tolerance

Test date: May 25, 2026

Temperature: 30.2 °C

Humidity: 54.0 %

Tester: Sky

Tolerance from nominal frequency:

Mode A~Mode C

Mode	Channel	Frequency Tolerance (kHz)	MAX Frequency Tolerance (ppm)	Limit (ppm)
		Vnor		
802.11b/g/n 20MHz	Ch 1 : 2412 MHz	0.16	0.1	50
	Ch 6 : 2437 MHz	0.16	0.1	
	Ch 11 : 2462 MHz	0.16	0.1	

Limits: < 50 ppm under all test conditions



3.3 Occupied Bandwidth (99% channel power bandwidth)

Test date: May 25, 2026

Temperature: 30.2 °C

Humidity: 54.0 %

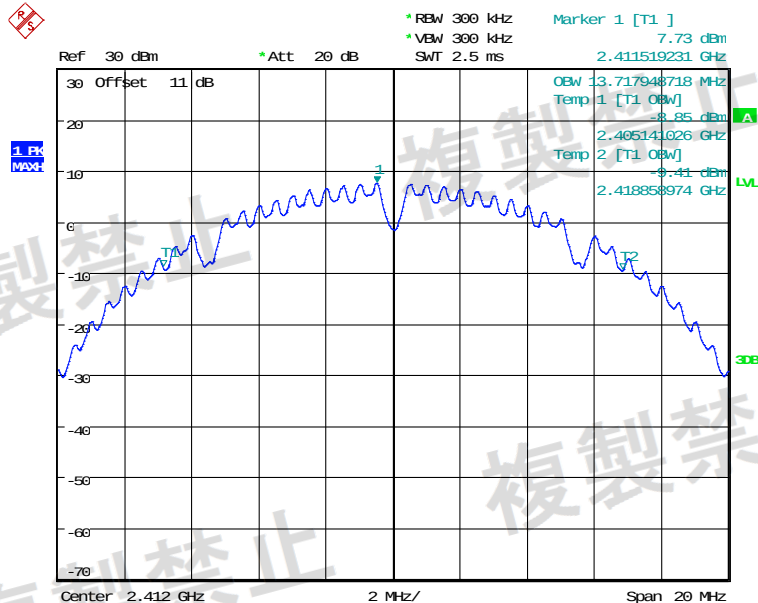
Tester: Sky

WiFi Occupied Bandwidth			
Mode	Test Freq	Test Volt	measure value(MHz)
802.11b	2412MHz	12Vd.c.	13.717948718
	2437MHz	12Vd.c.	13.685897436
	2462MHz	12Vd.c.	13.653846154
802.11g	2412MHz	12Vd.c.	16.666666667
	2437MHz	12Vd.c.	16.666666667
	2462MHz	12Vd.c.	16.666666667
802.11 n 20MHz	2412MHz	12Vd.c.	17.756410256
	2437MHz	12Vd.c.	17.788461538
	2462MHz	12Vd.c.	17.756410256

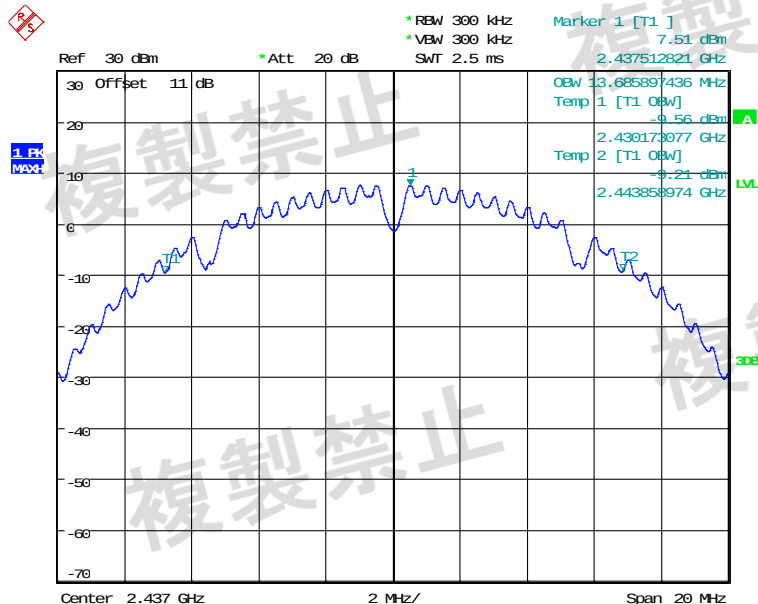


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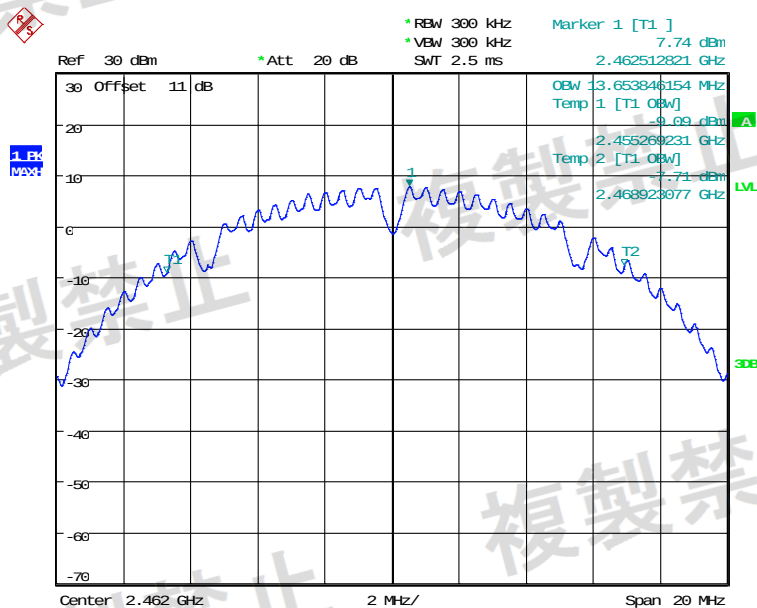
Mode A



OCCUPIED BANDWIDTH 802.11B CH1
Date: 25.MAY.2026 19:13:50

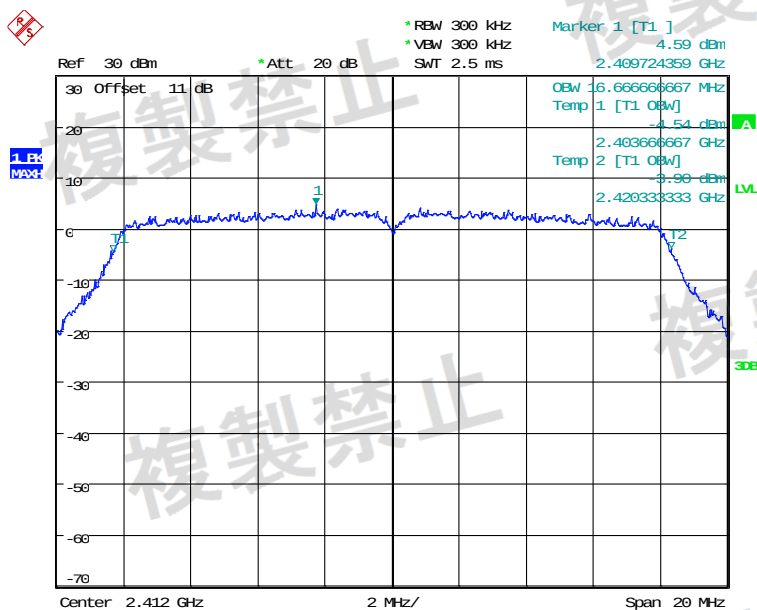


OCCUPIED BANDWIDTH 802.11B CH6
Date: 25.MAY.2026 19:14:15

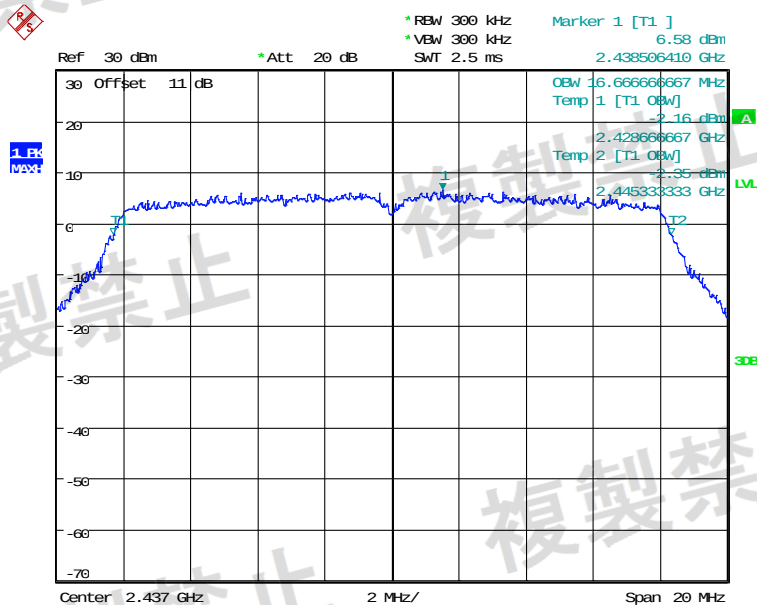


OCCUPIED BANDWIDTH 802.11B CH11
Date: 25.MAY.2026 19:14:47

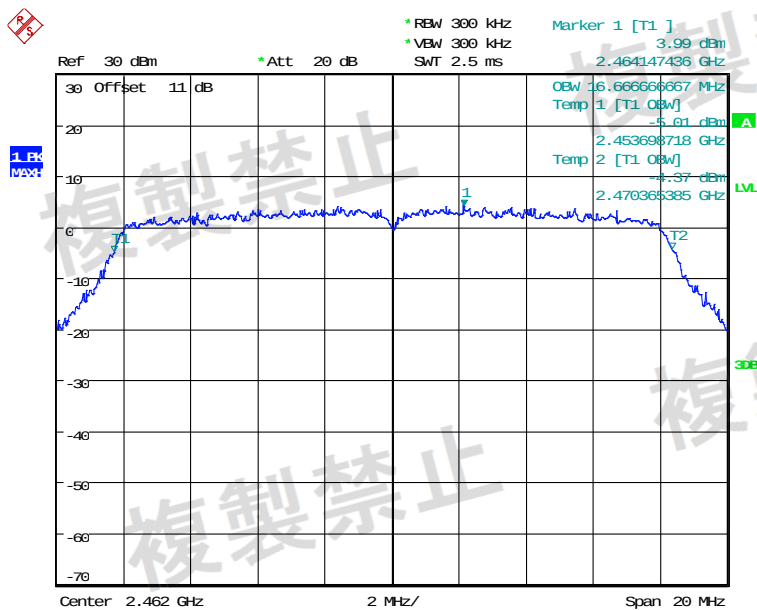
Mode B



OCCUPIED BANDWIDTH 802.11G CH1
Date: 25.MAY.2026 19:15:35



OCCUPIED BANDWIDTH 802.11G CH6
Date: 25.MAY.2026 19:16:05

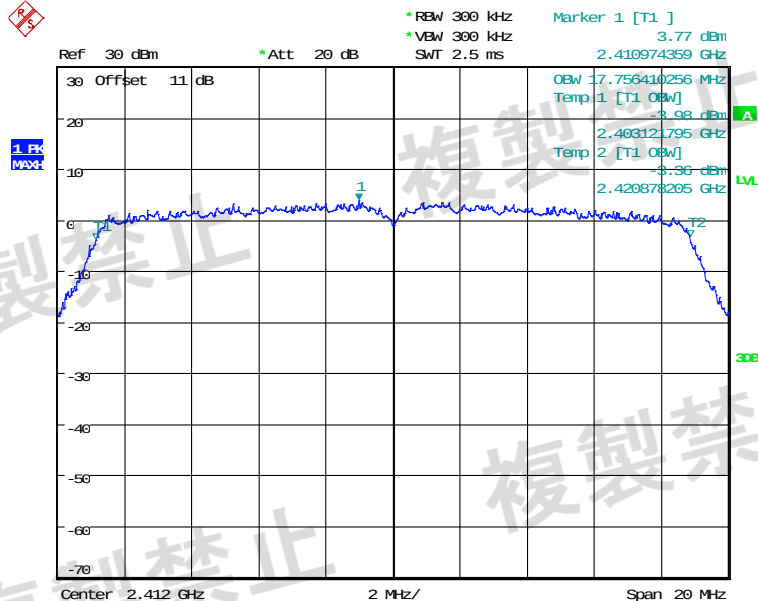


OCCUPIED BANDWIDTH 802.11G CH11
Date: 25.MAY.2026 19:16:37

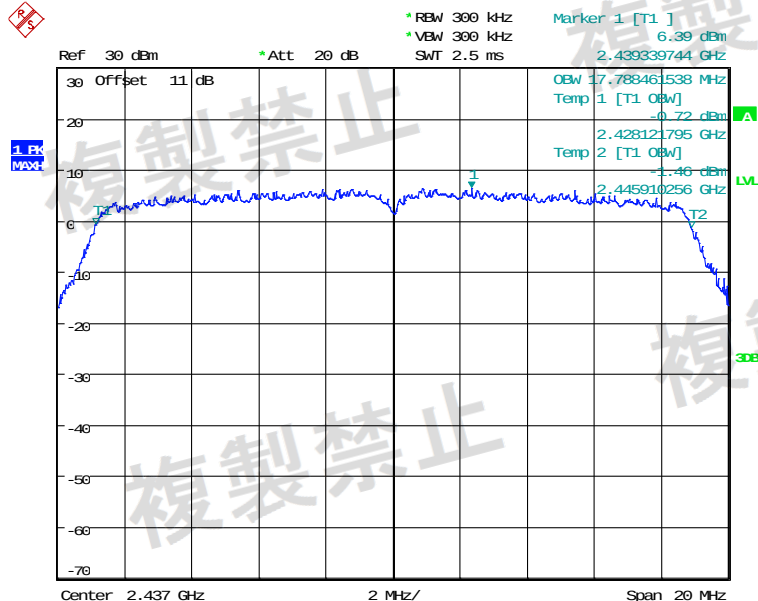


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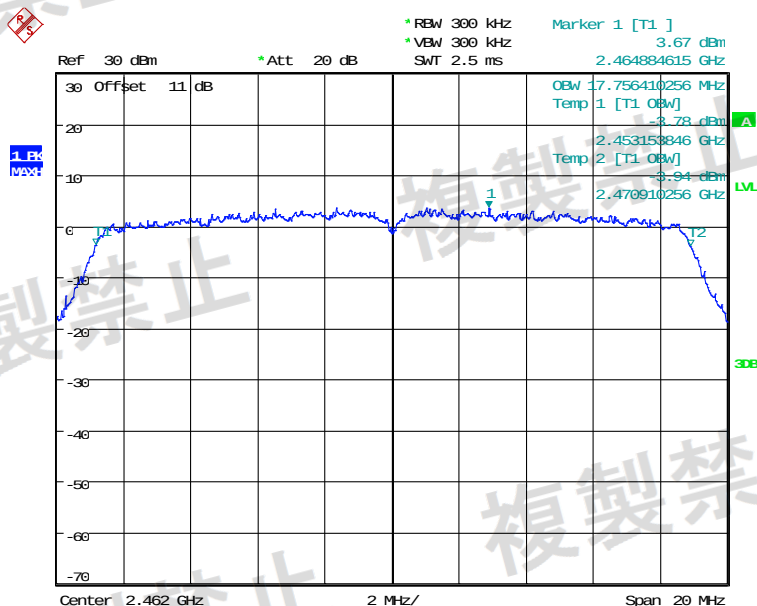
Mode C



OCCUPIED BANDWIDTH 802.11N 20M CH1
Date: 25.MAY.2026 19:17:49



OCCUPIED BANDWIDTH 802.11N 20M CH6
Date: 25.MAY.2026 19:18:26



OCCUPIED BANDWIDTH 802.11N 20M CH6
Date: 25.MAY.2026 19:19:16

Limits:

Under all test conditions	FH : 83.5 MHz
	FH+DS : 83.5 MHz
	FH+OFDM : 83.5 MHz
	OFDM, DS : 26 MHz
	Others : 26 MHz
	OFDM equipment with 40 MHz channel separation: 38 MHz

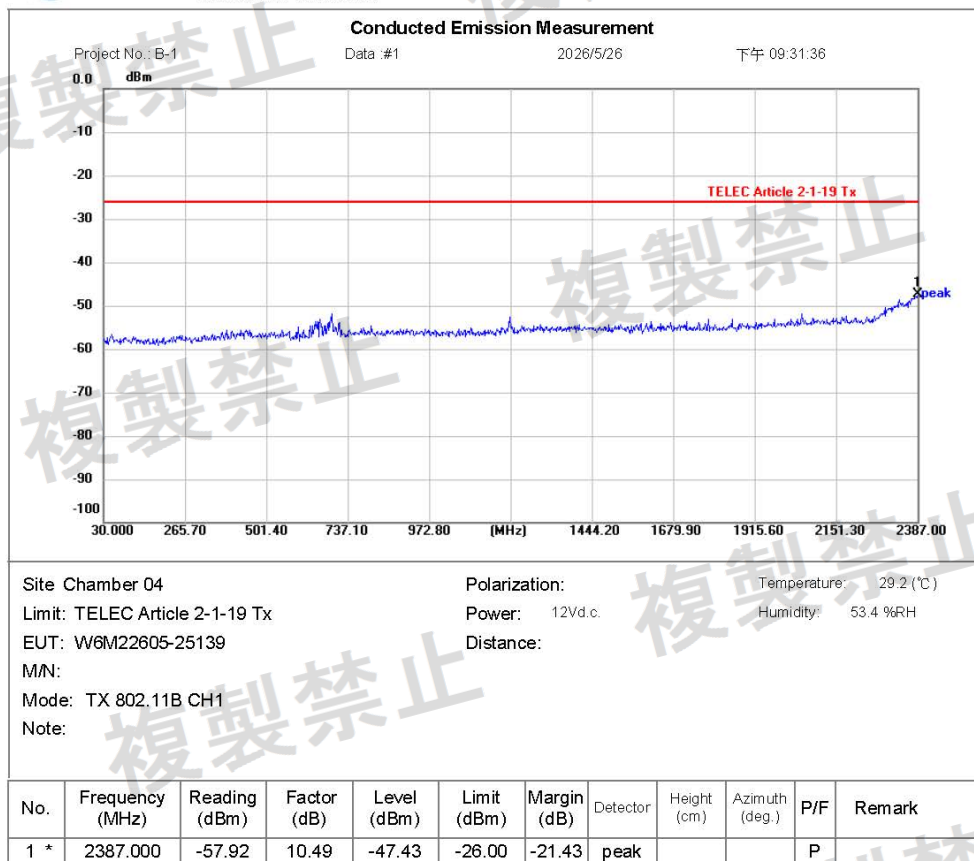


3.4 Spurious emissions transmitter

Mode A



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*:Maximum data x:Over limit !:over margin

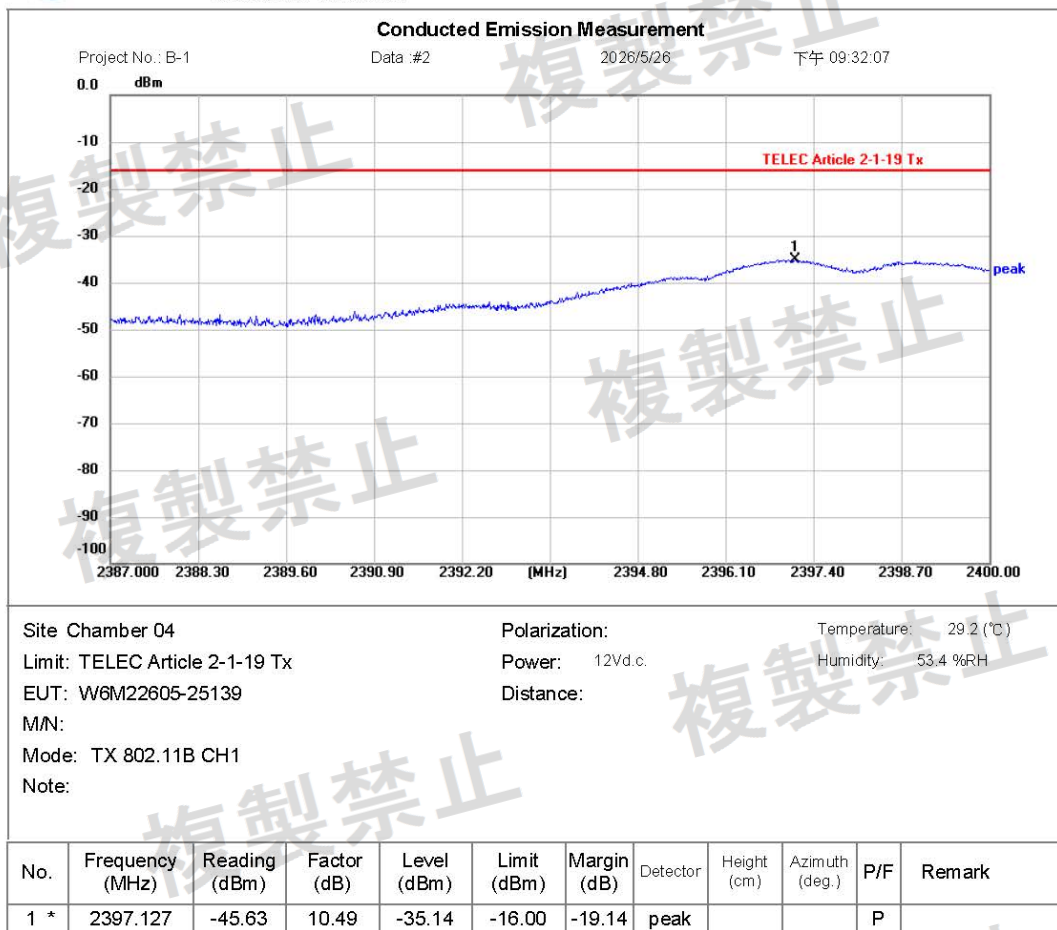
Engineer Signature: Sky



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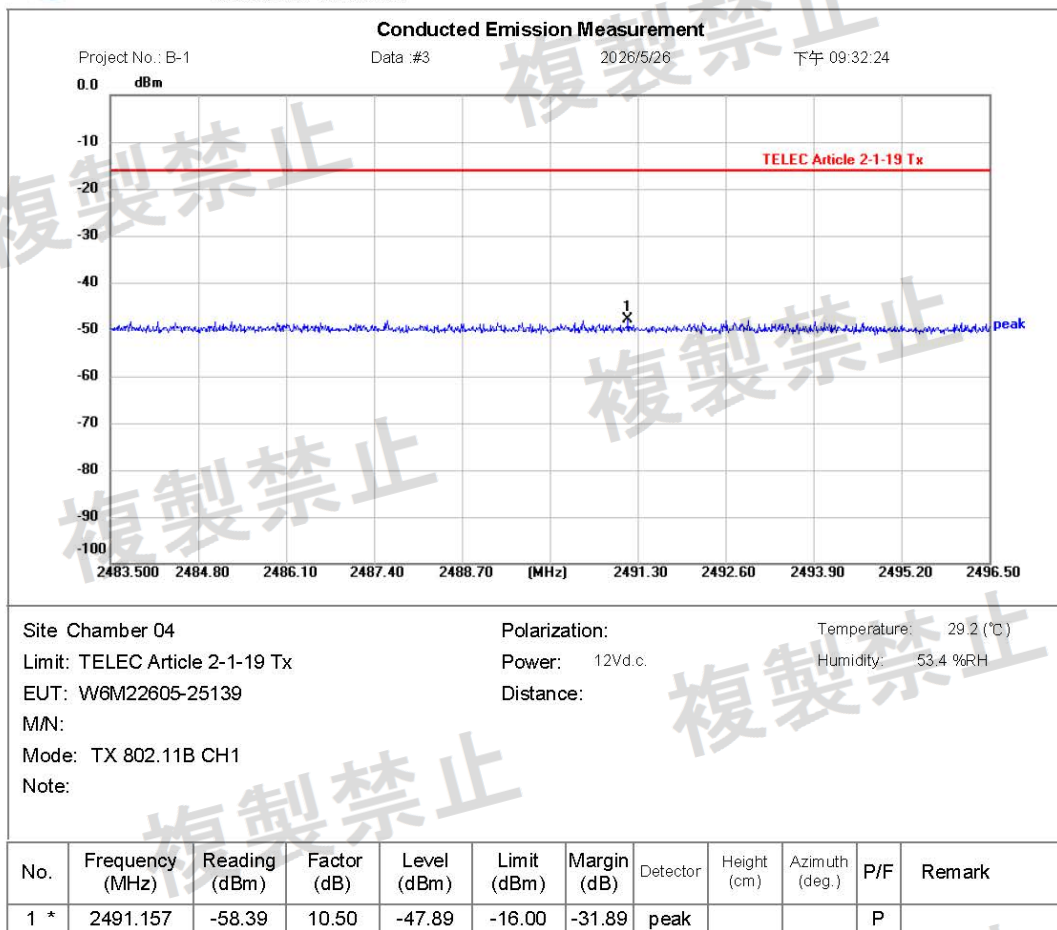
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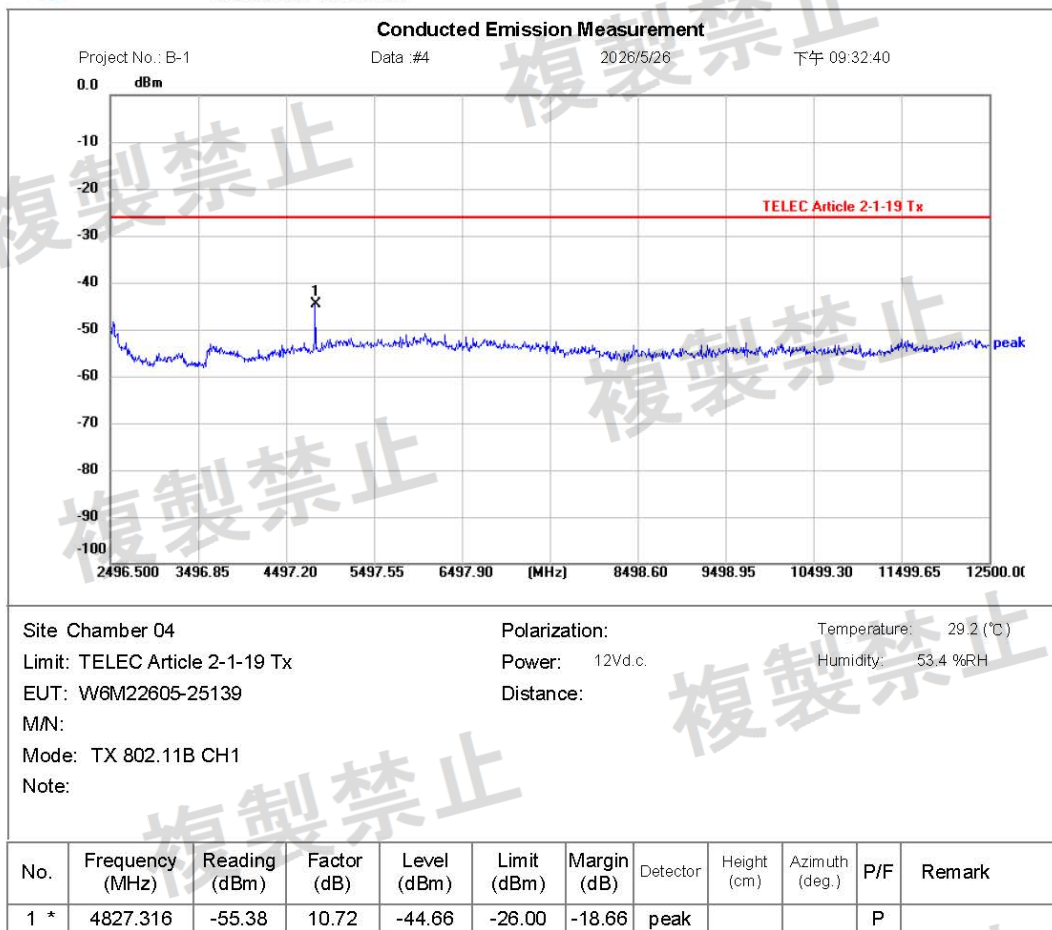
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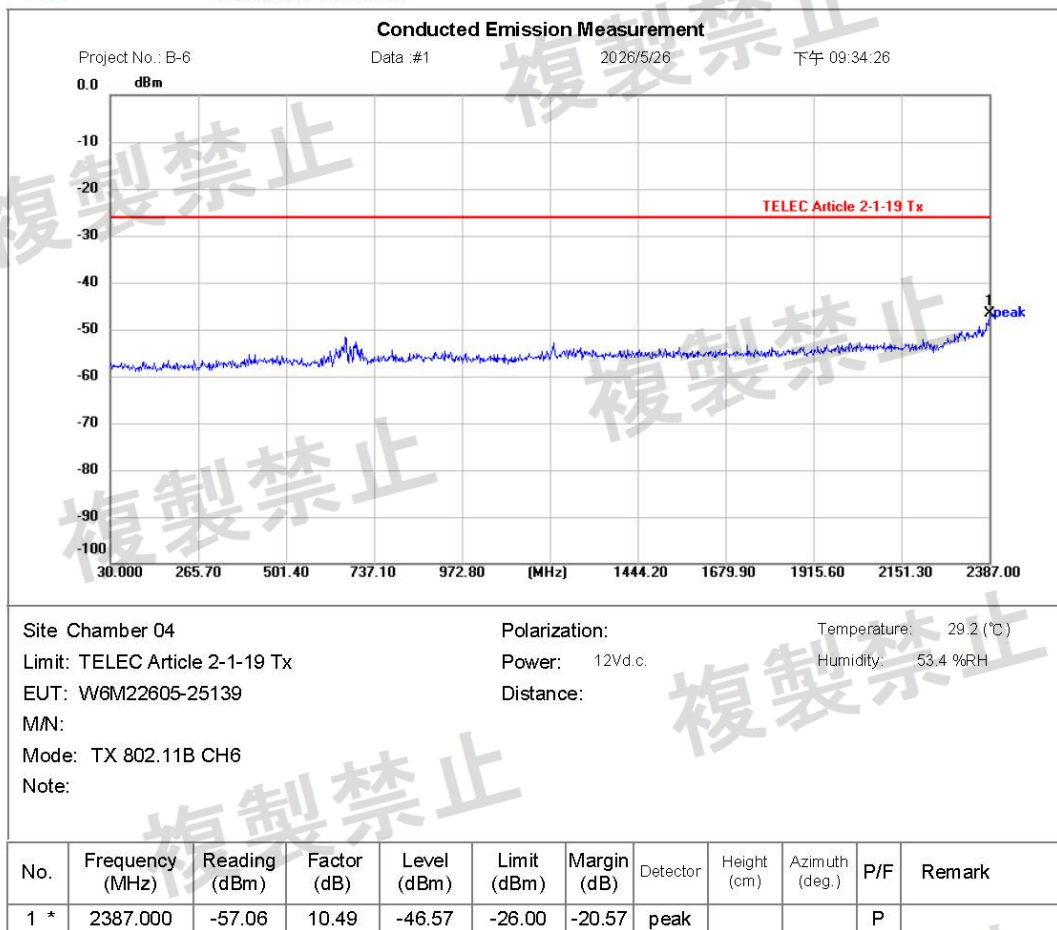
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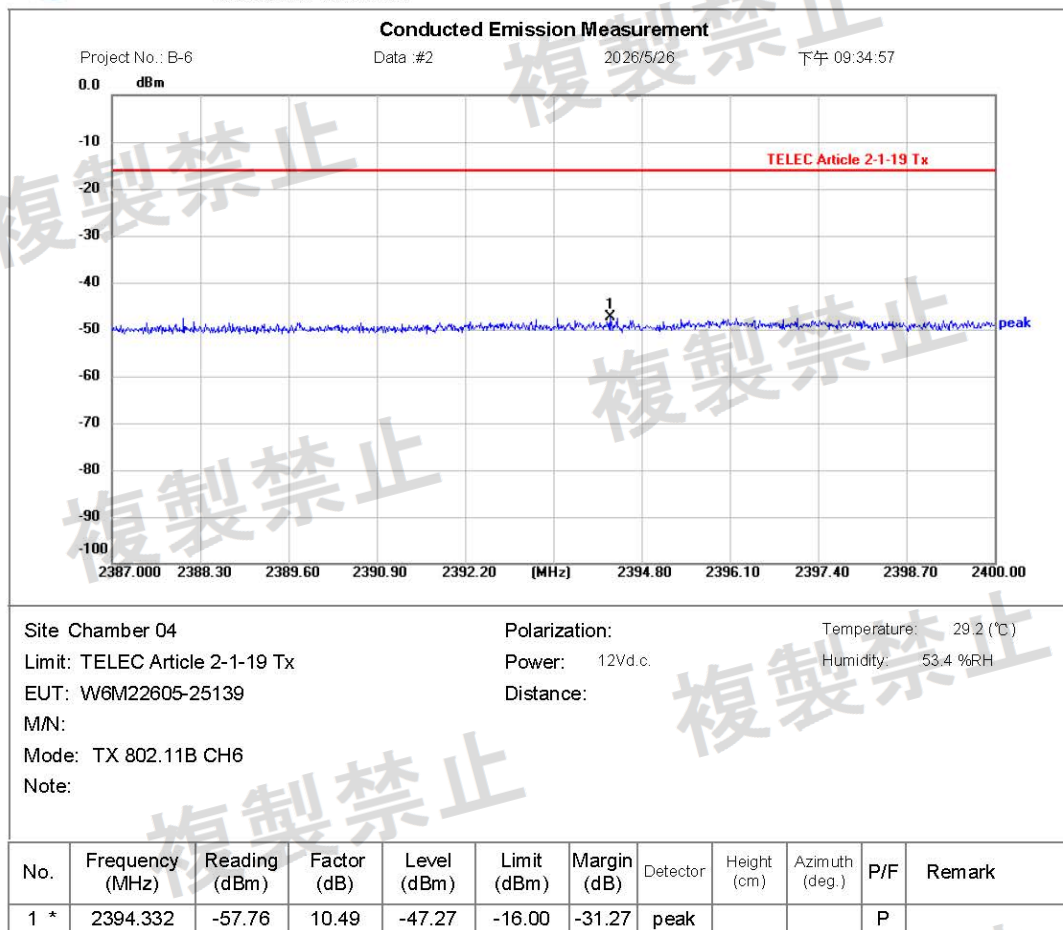
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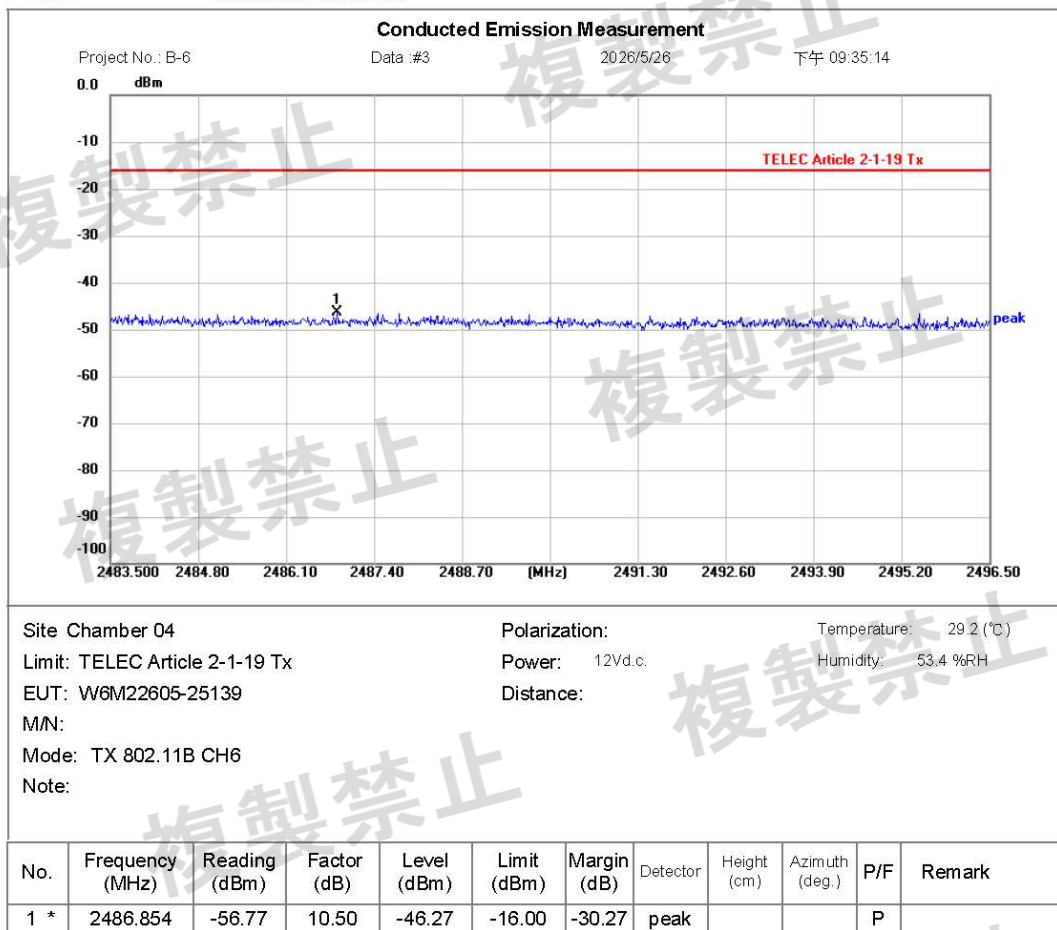
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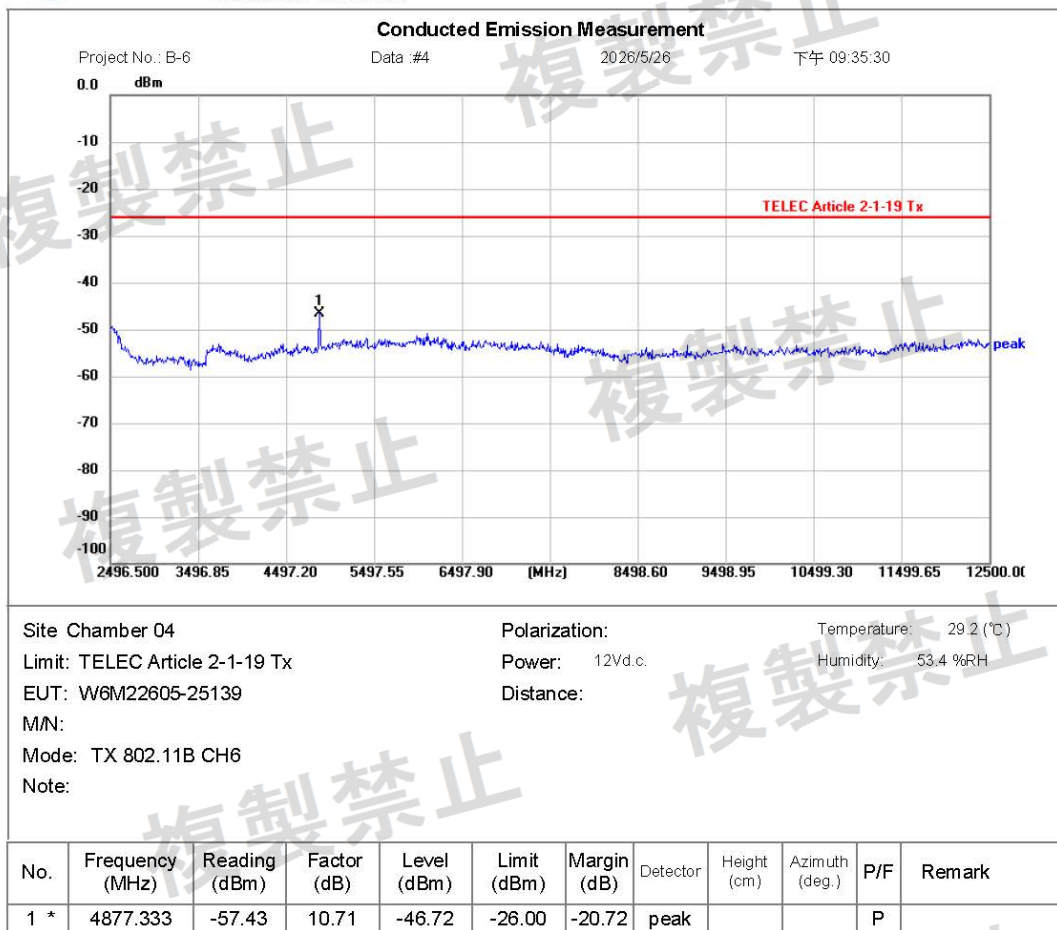
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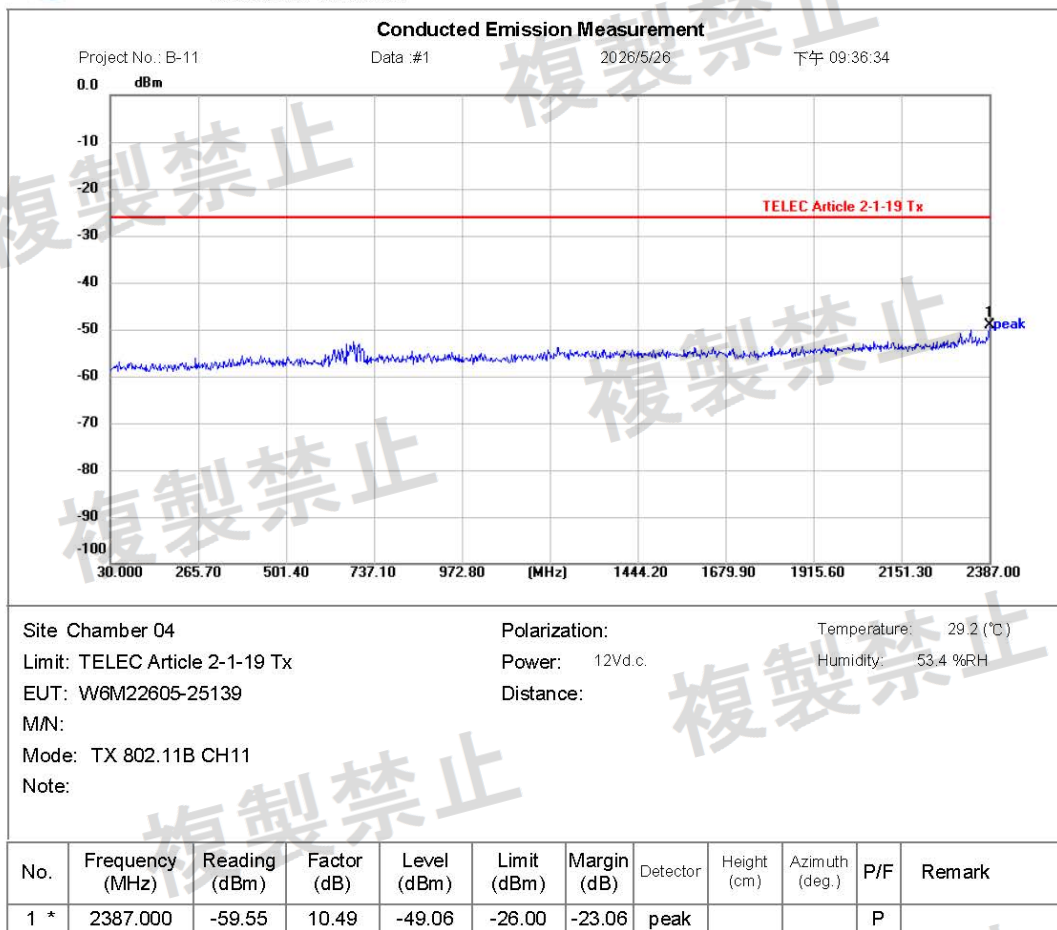
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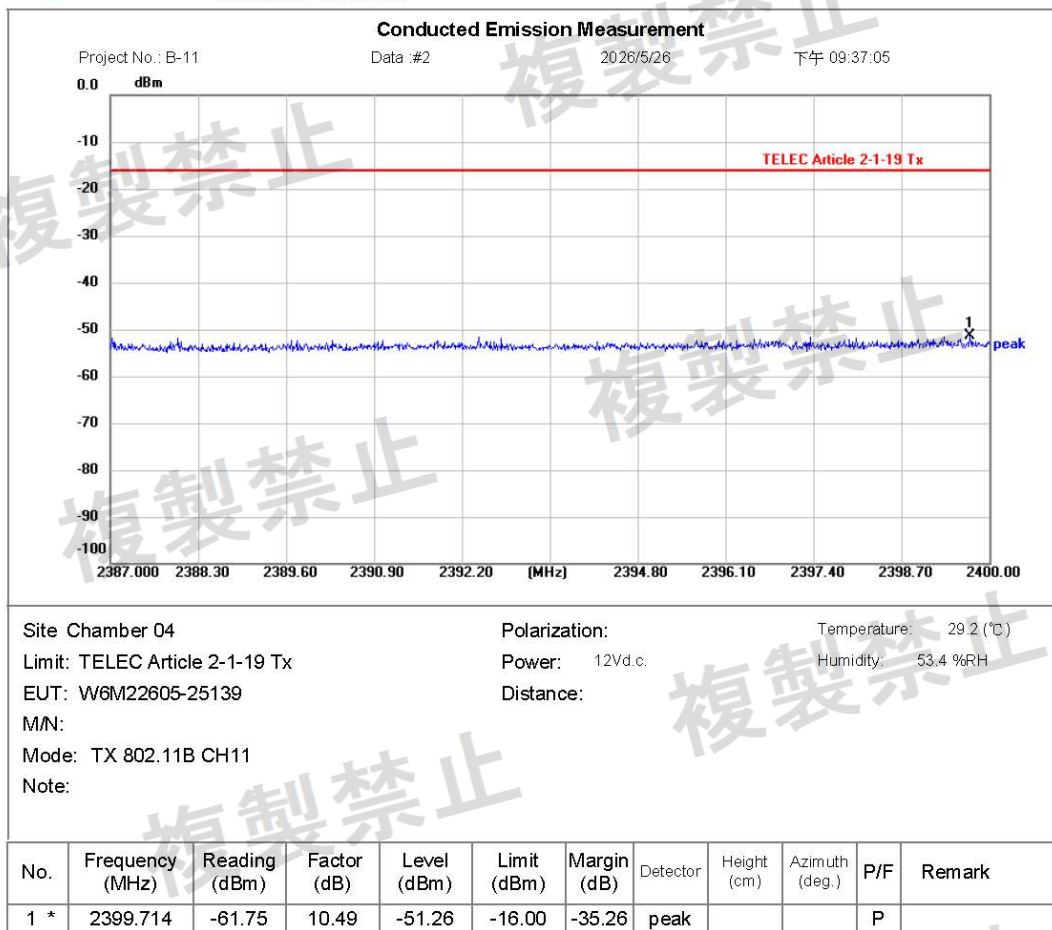
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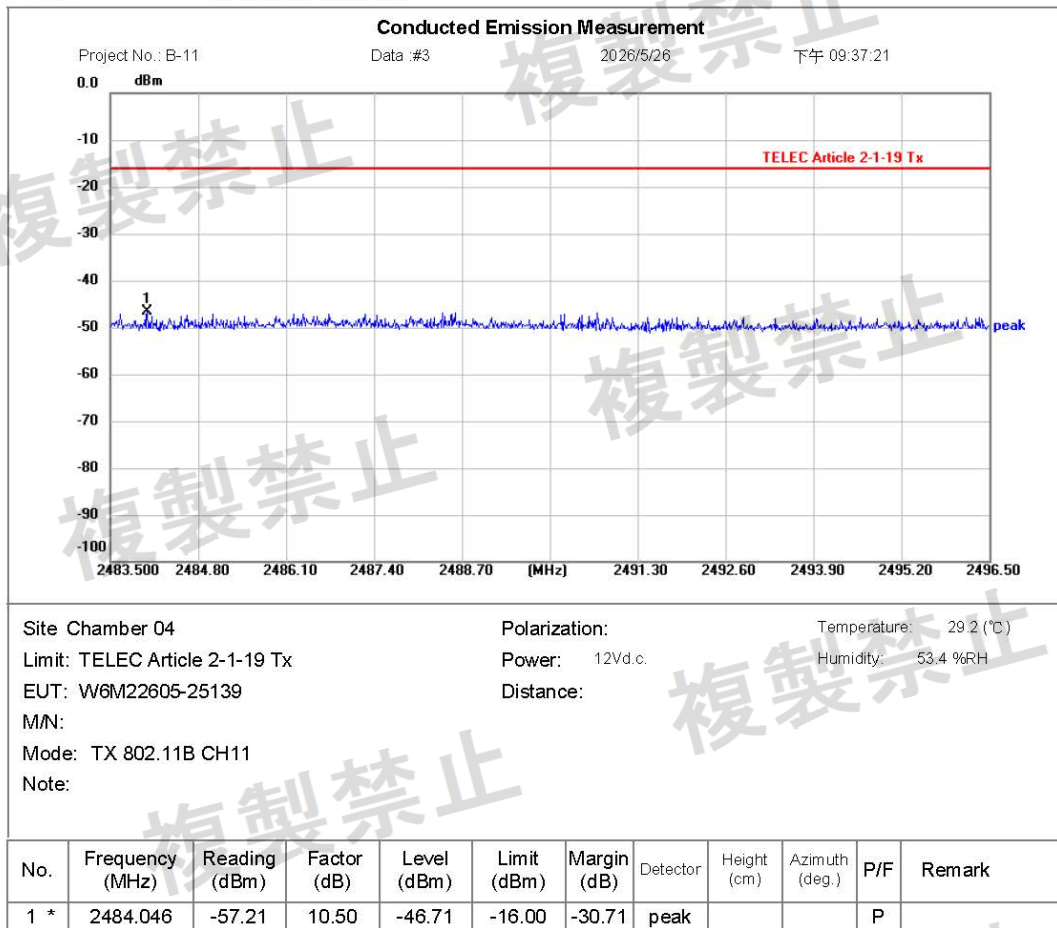
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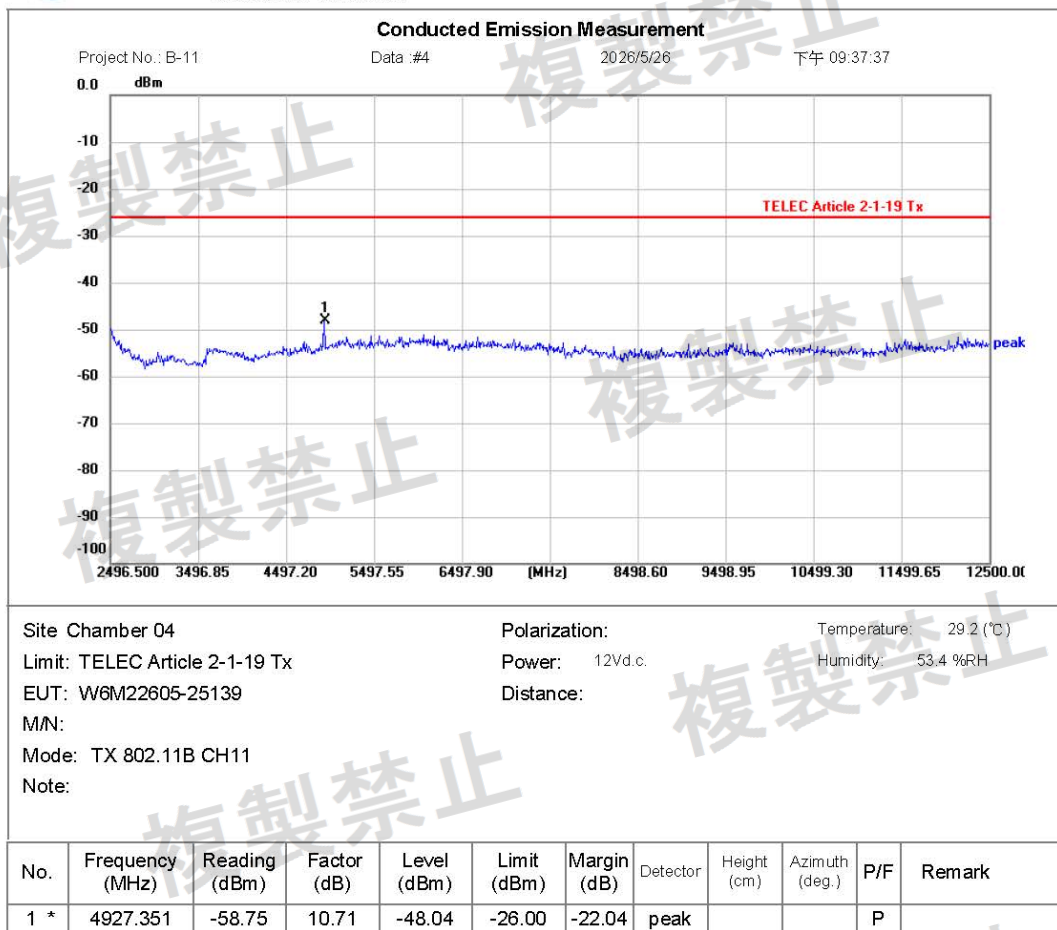
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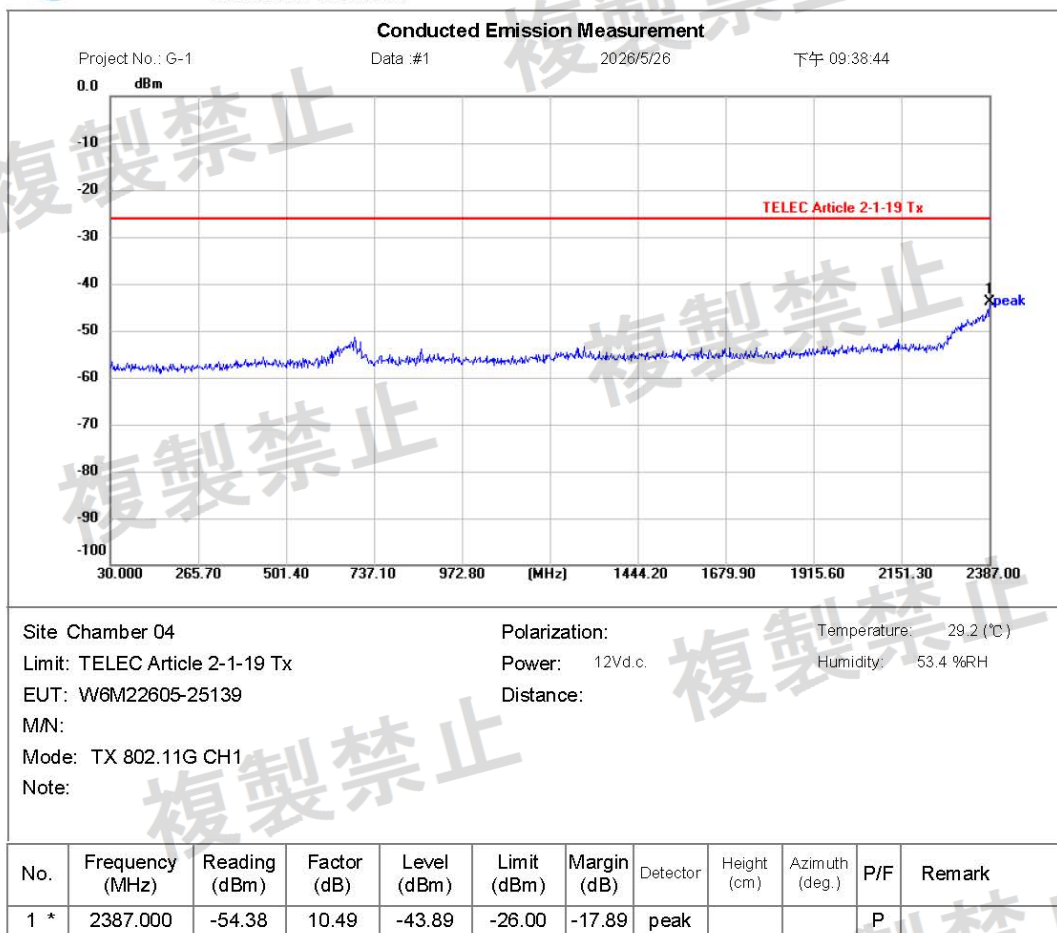


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Mode B



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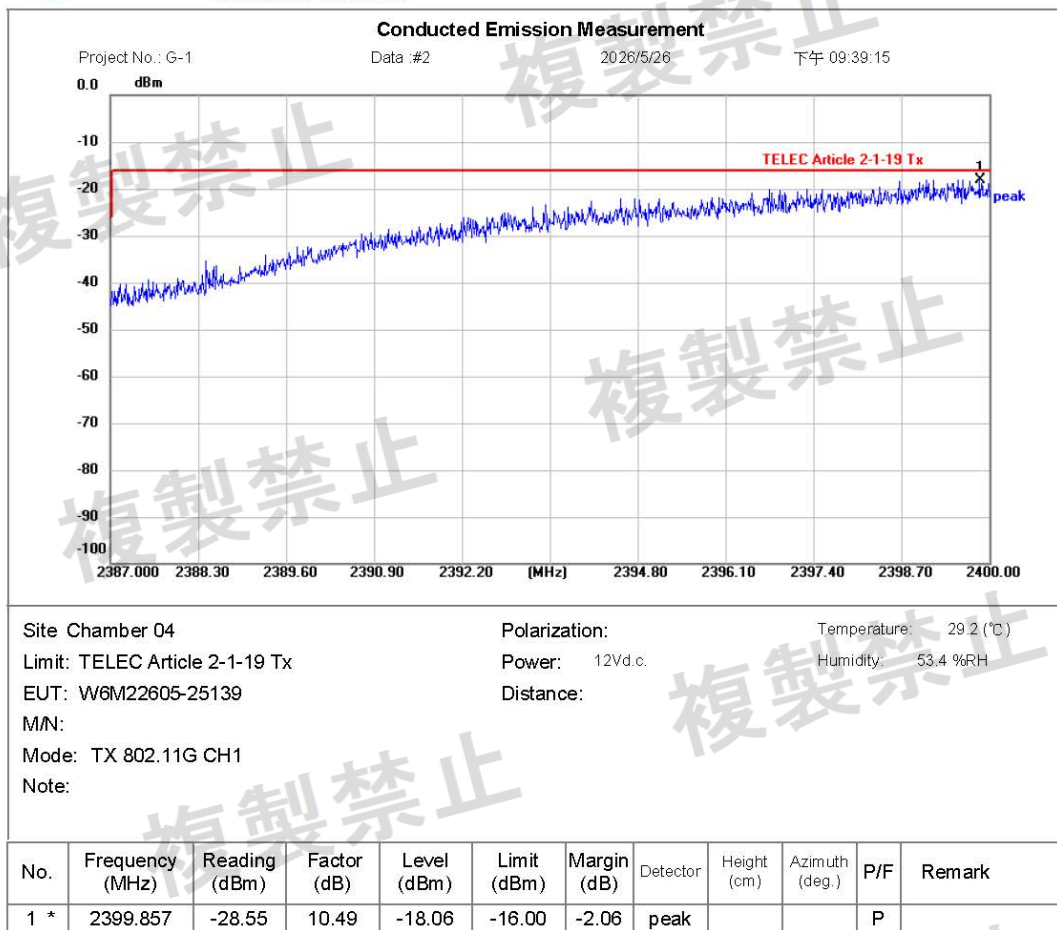
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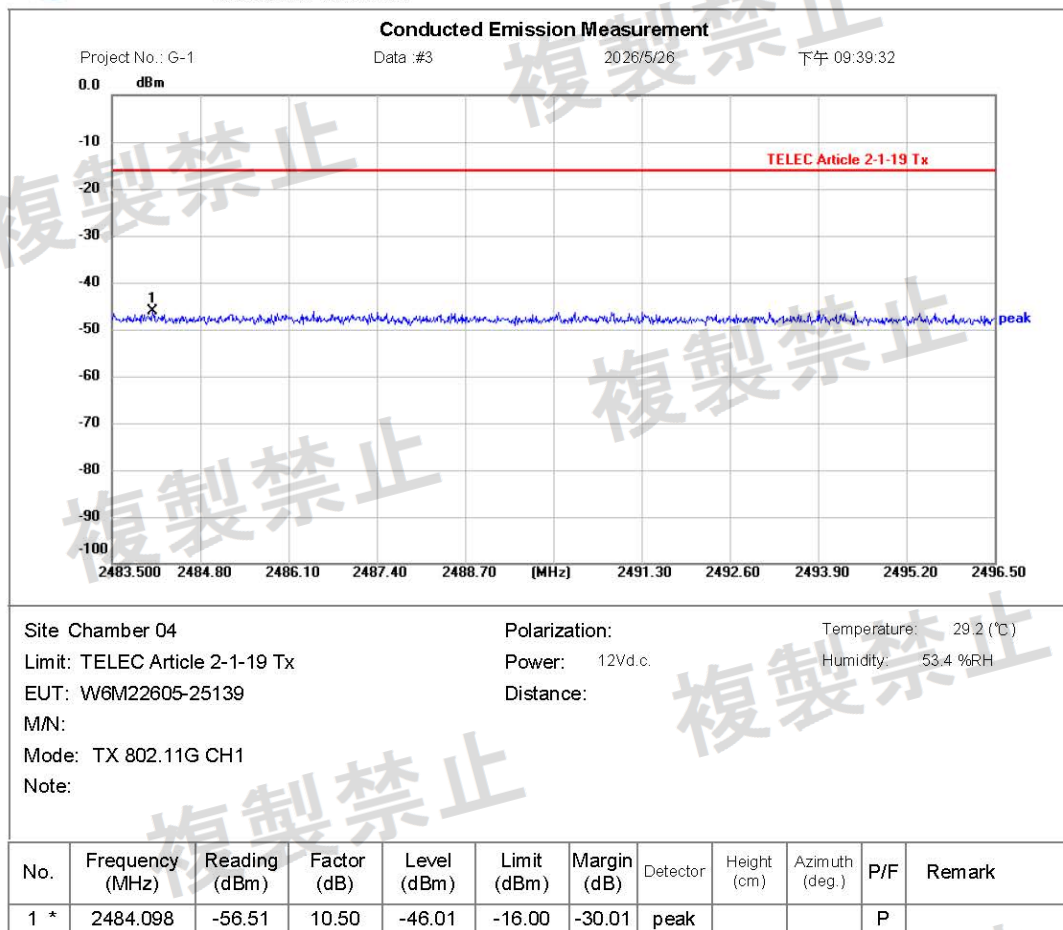
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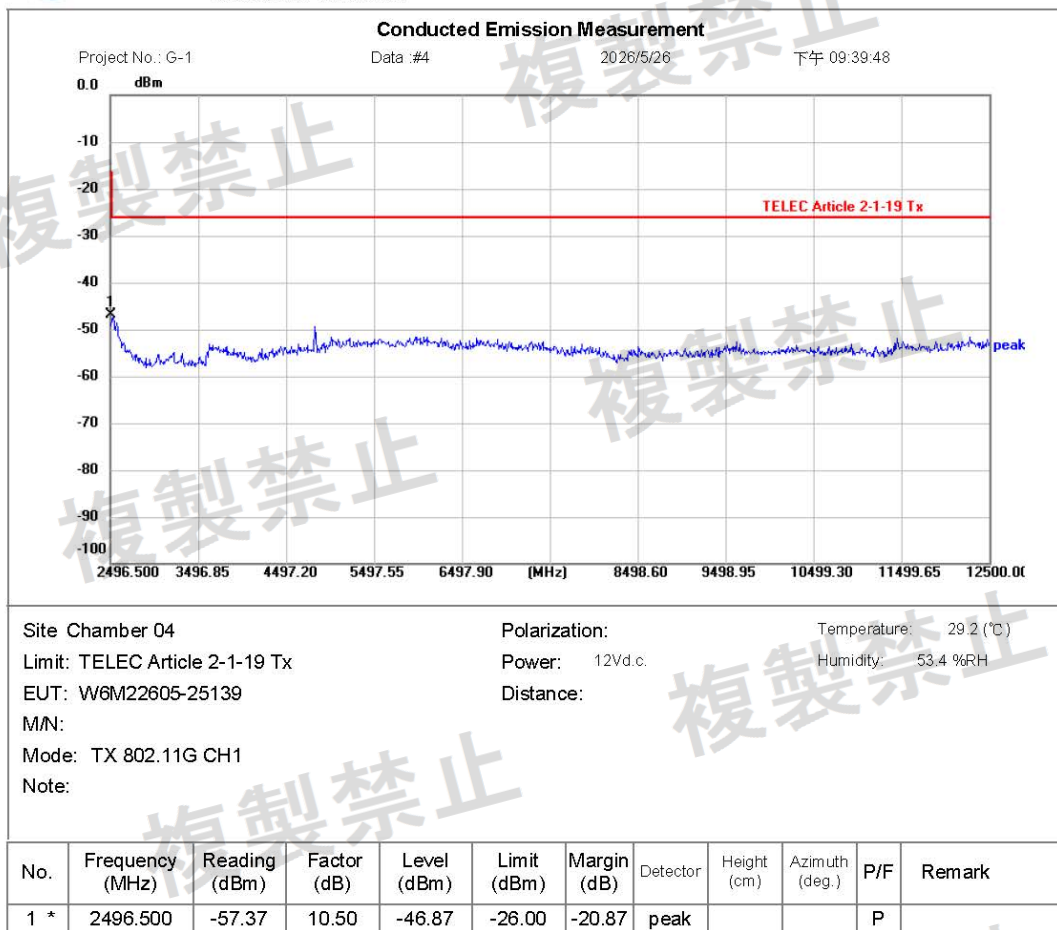
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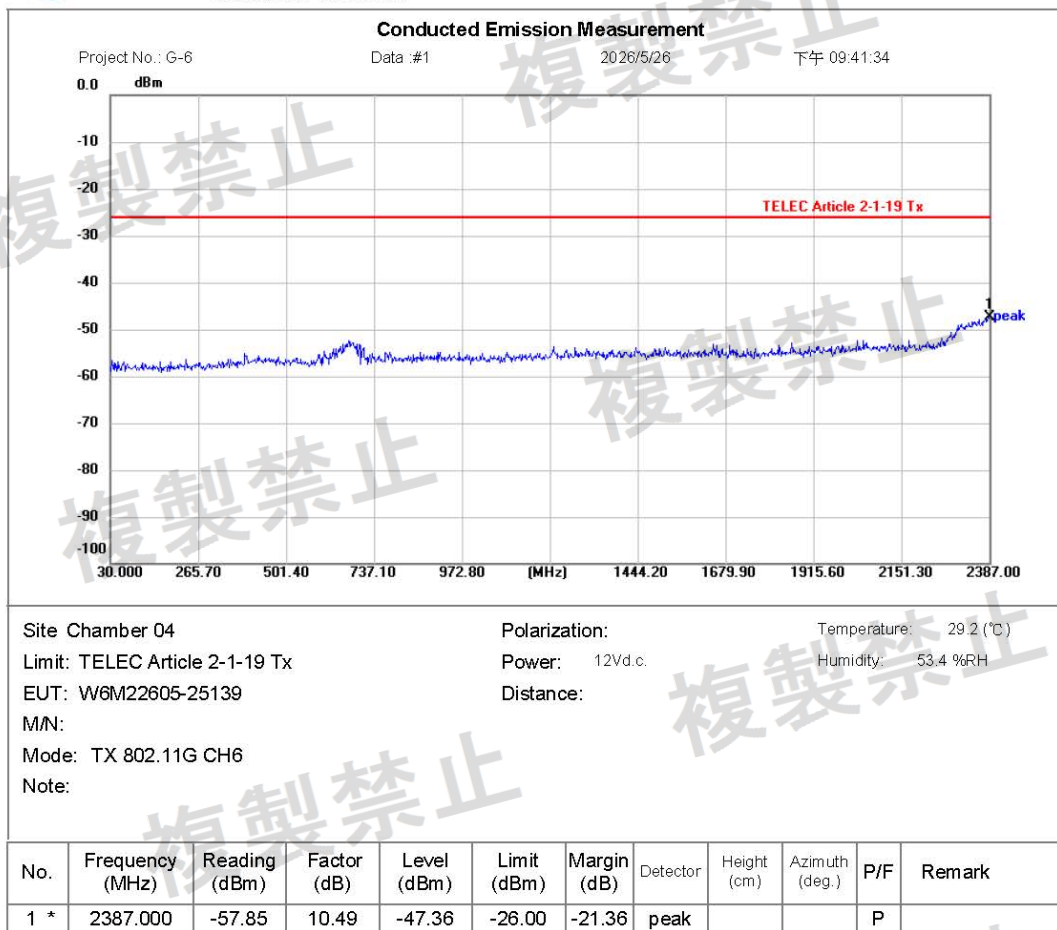
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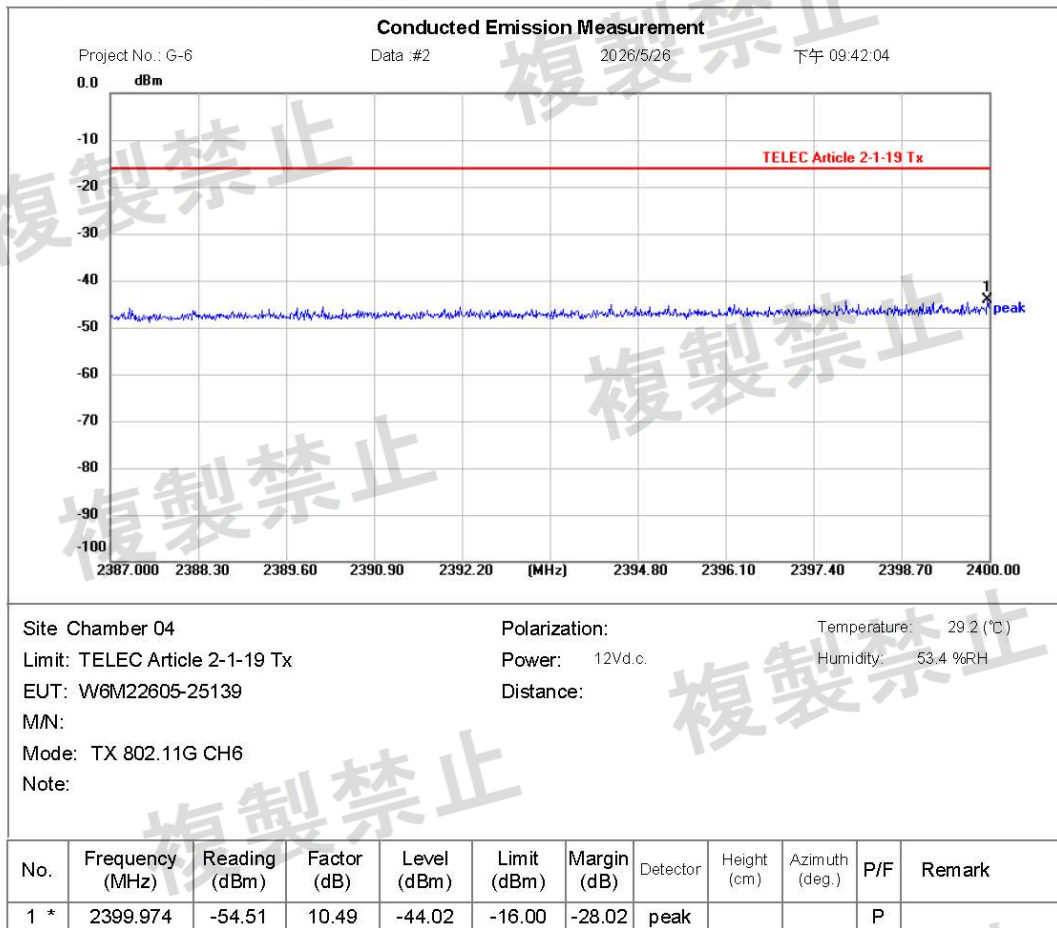
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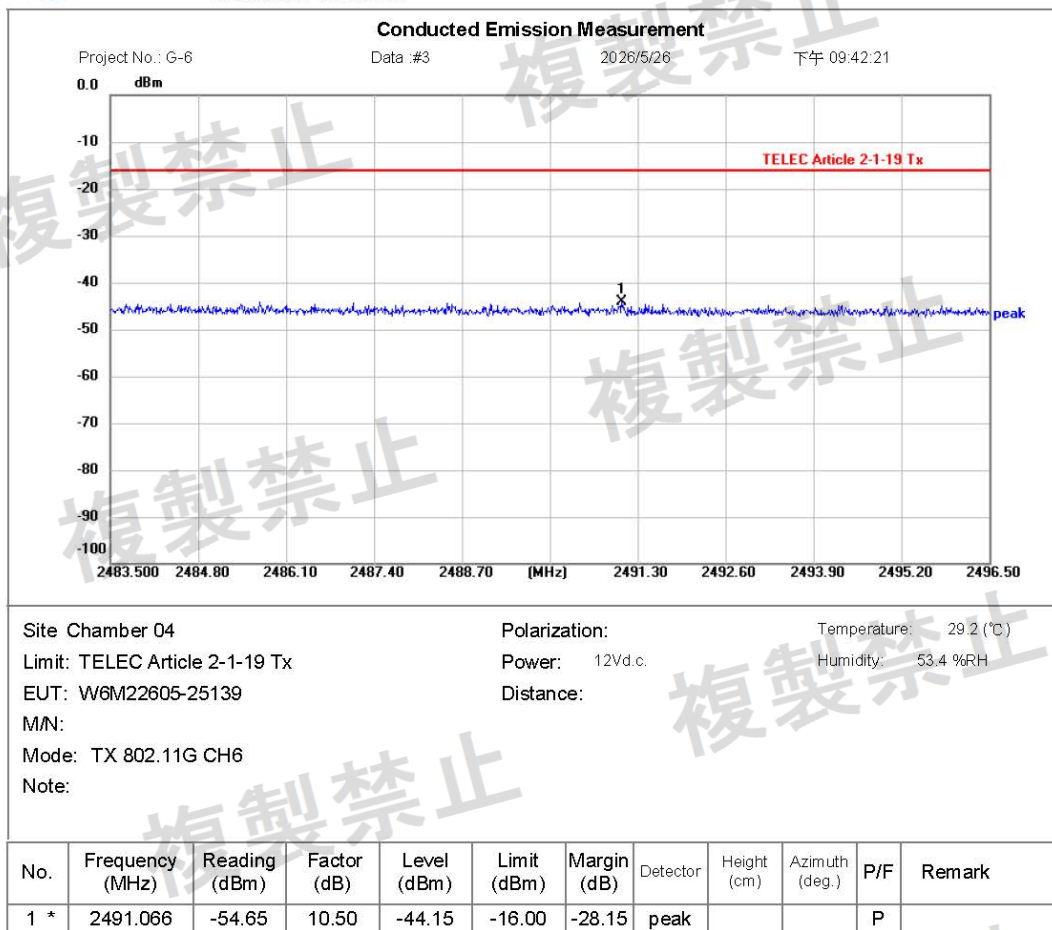
Engineer Signature: Sky



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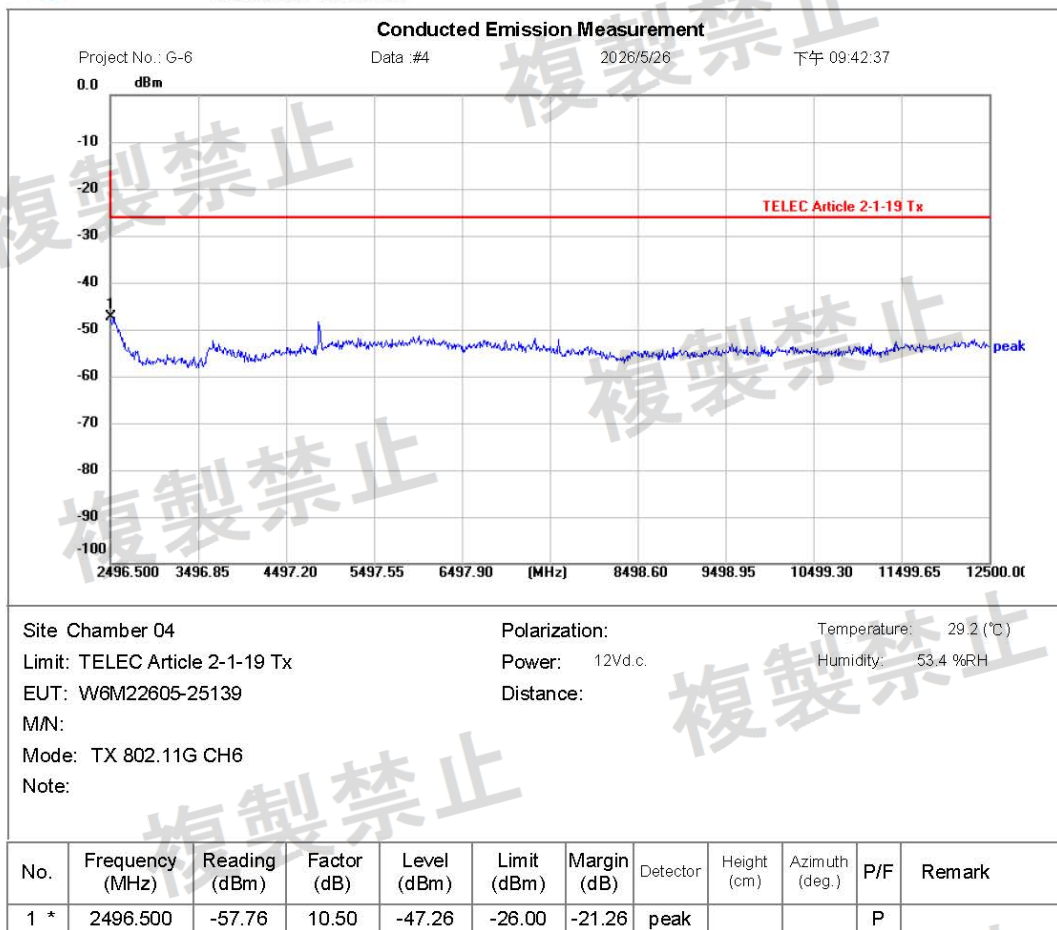
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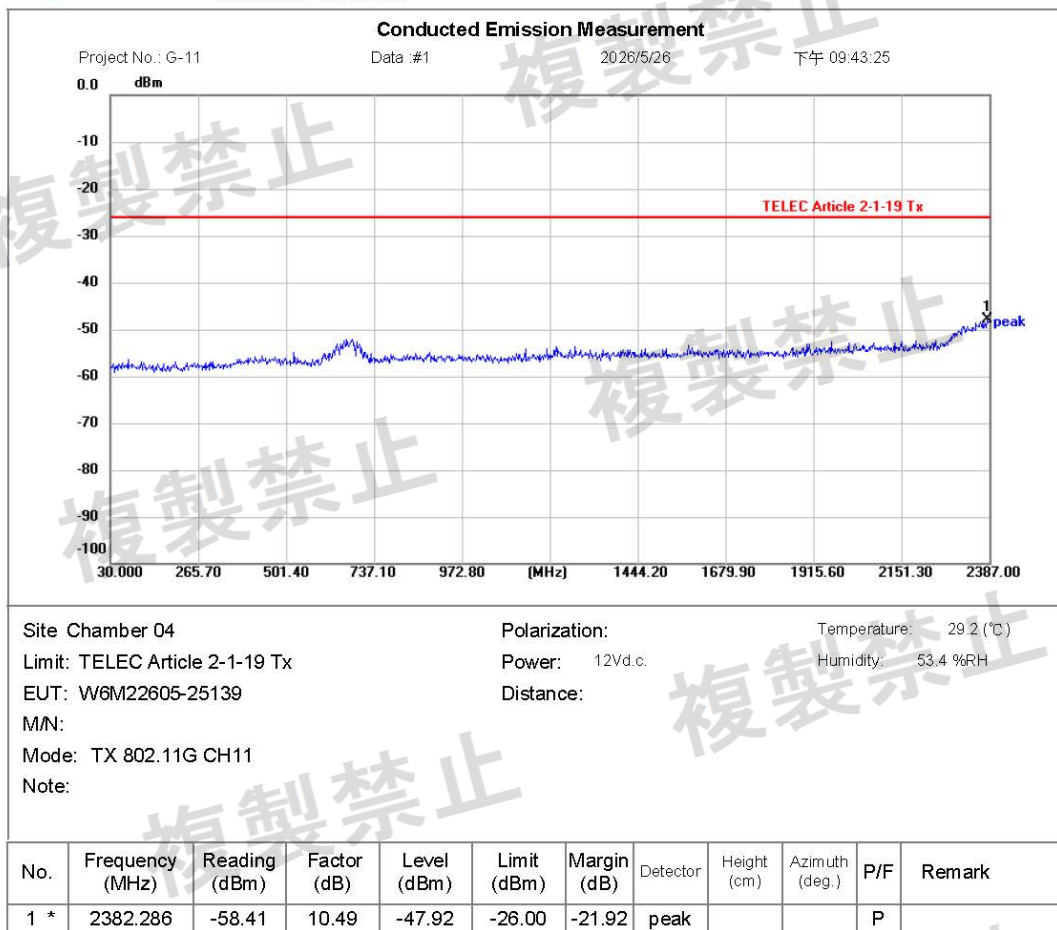
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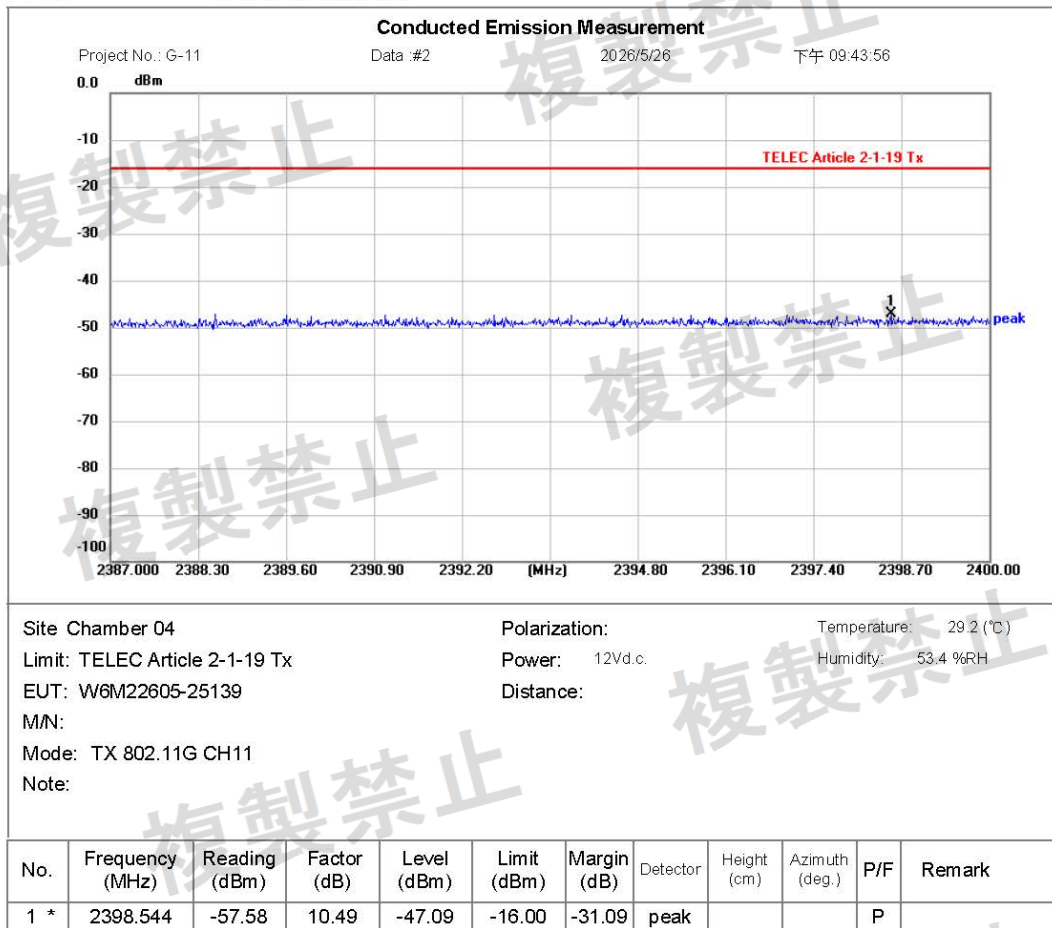
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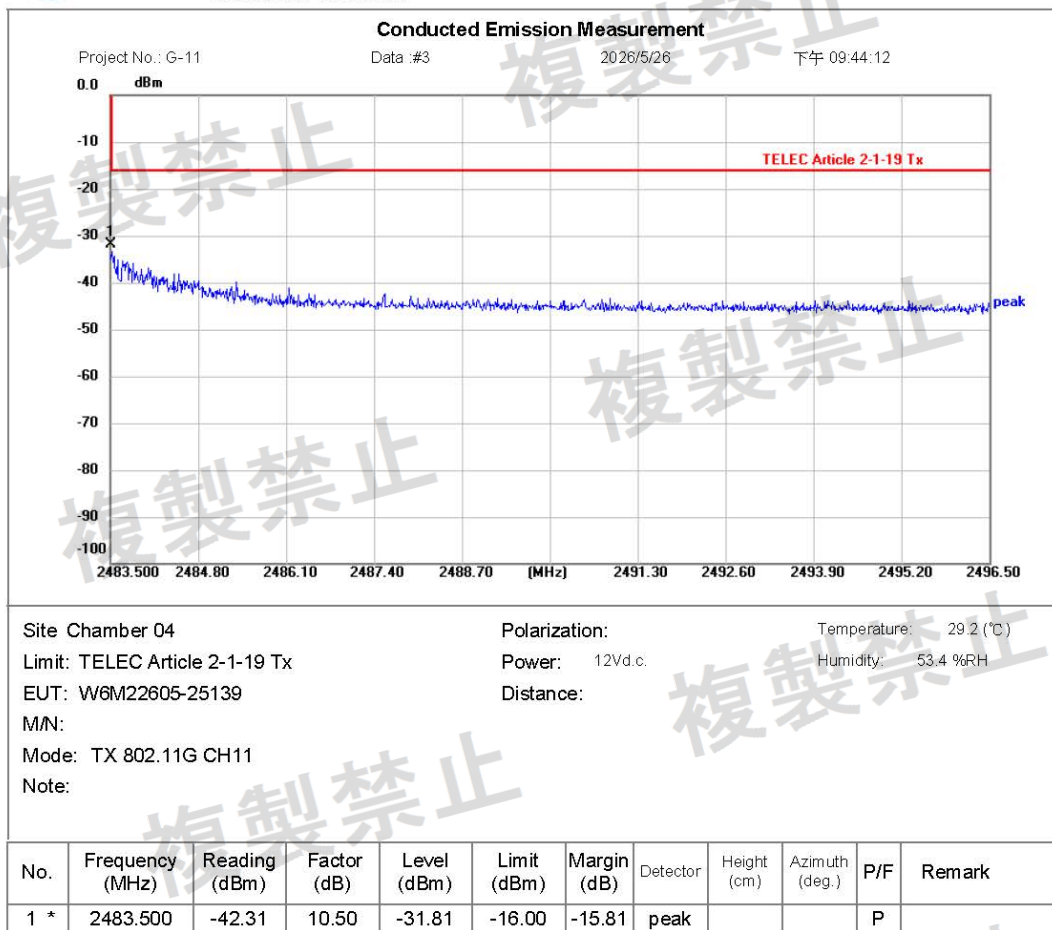
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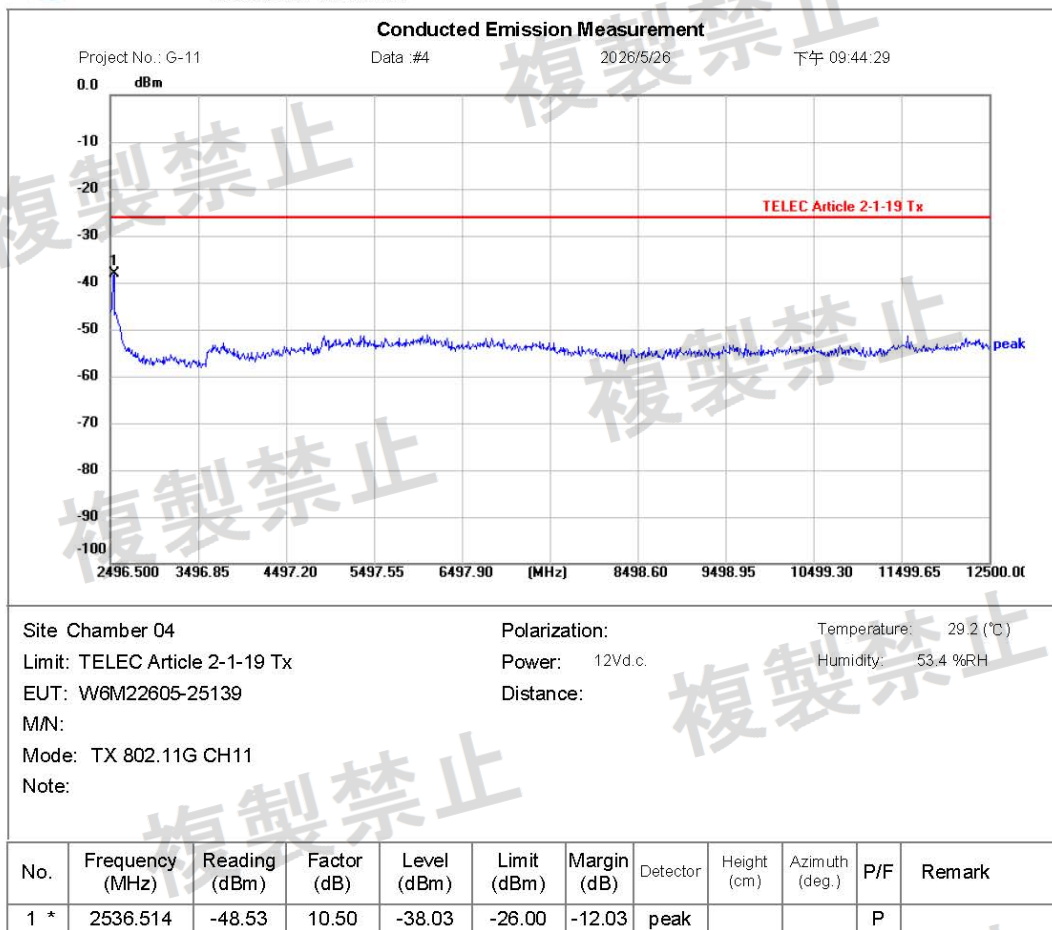
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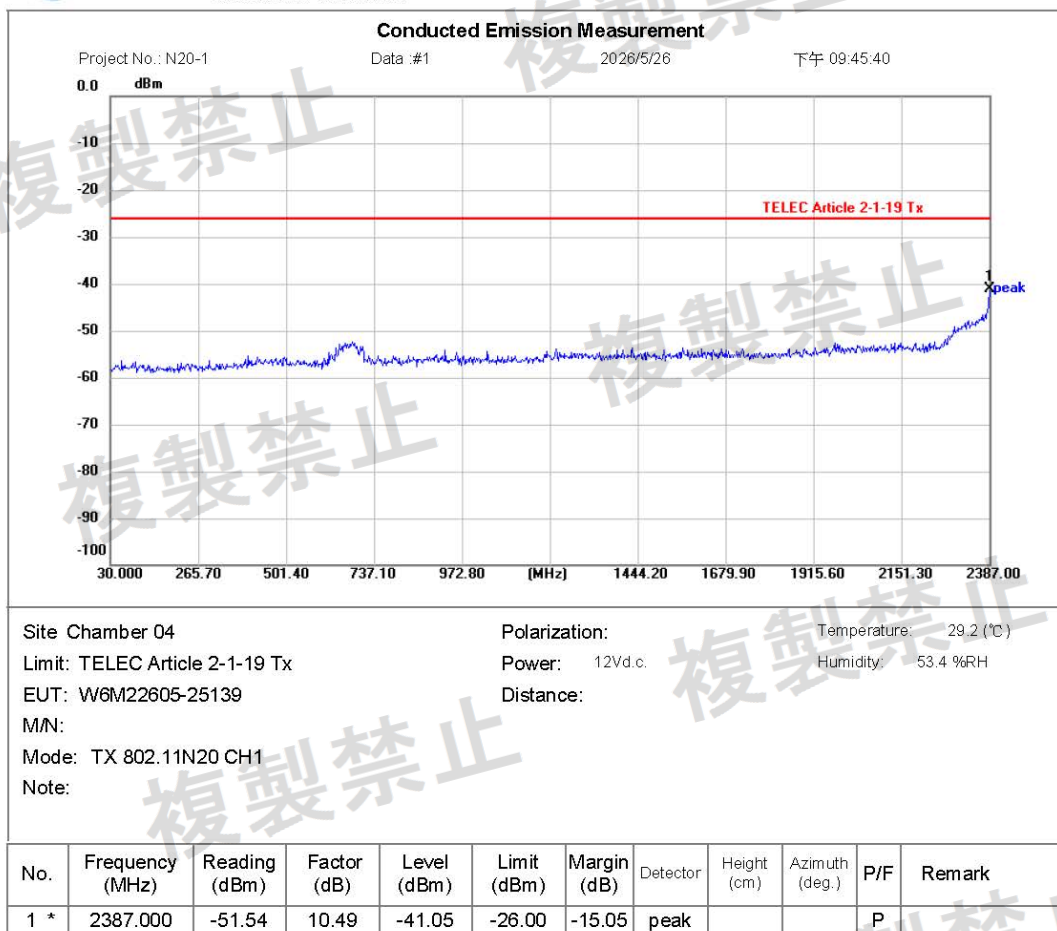


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Mode C



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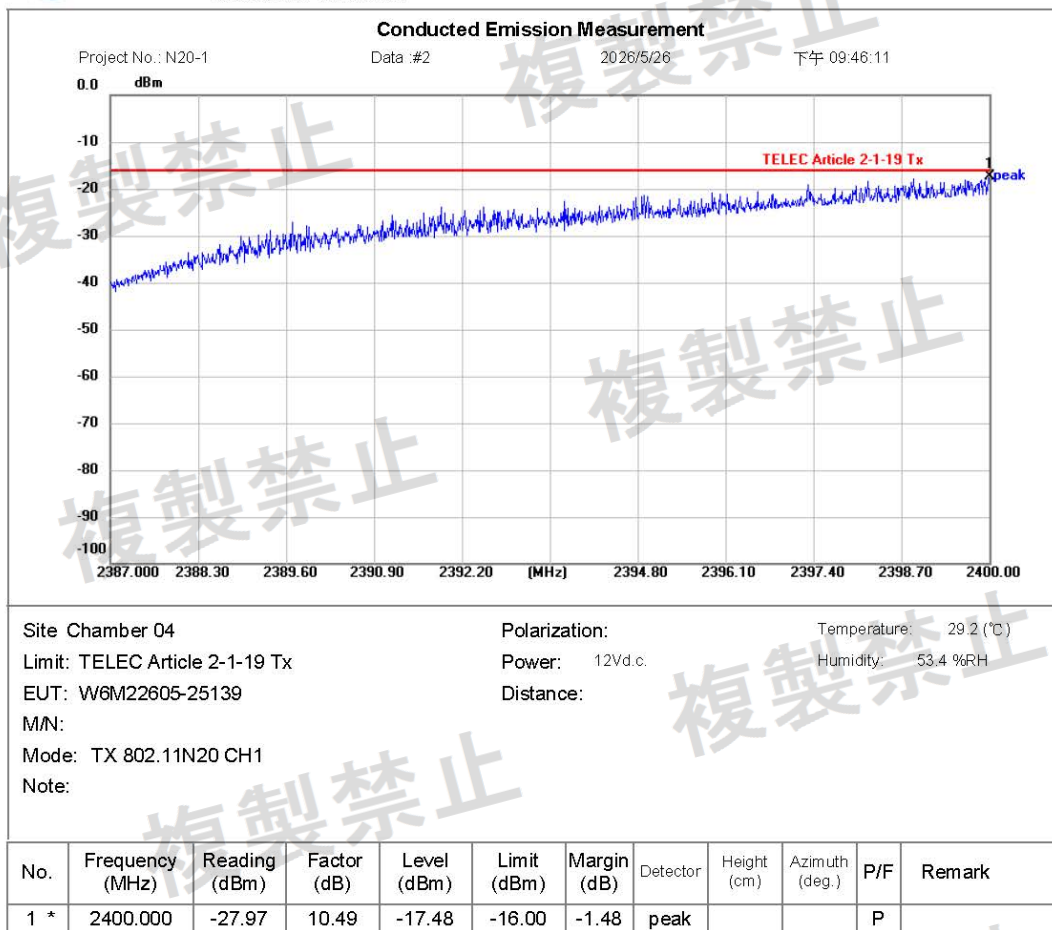
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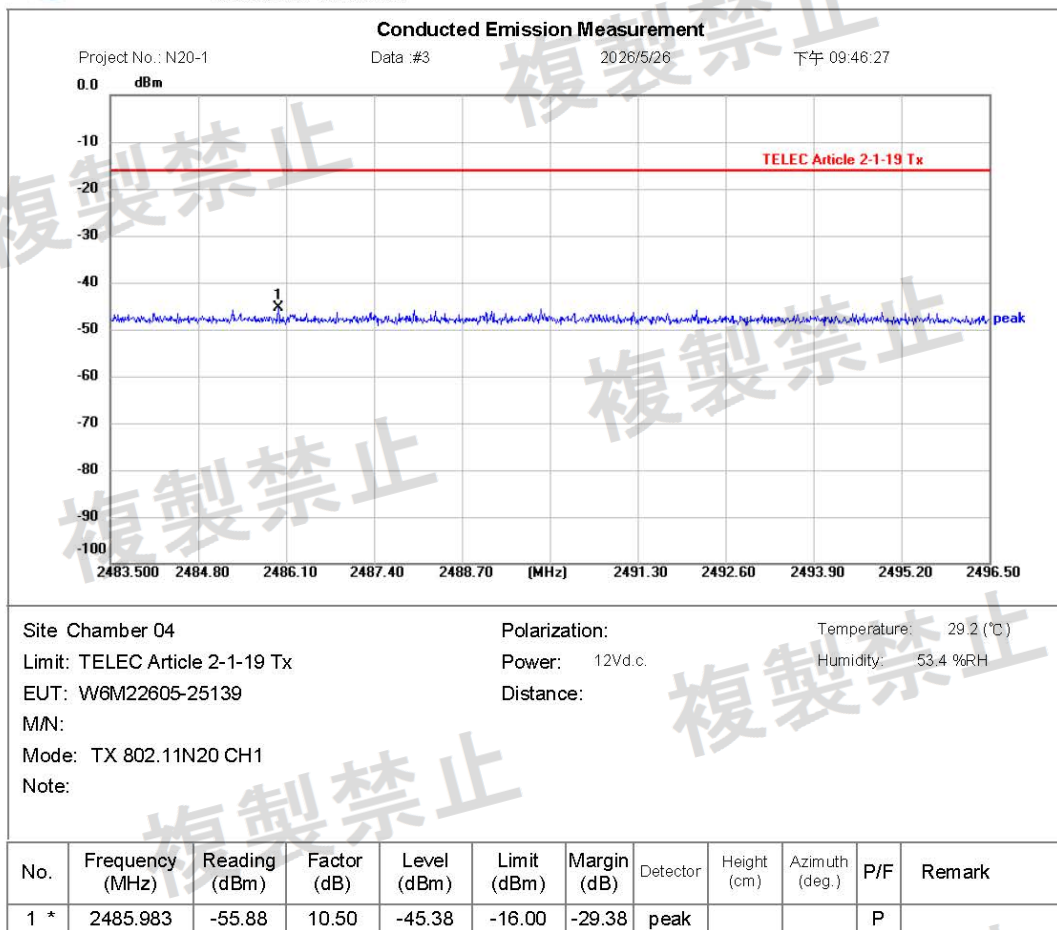
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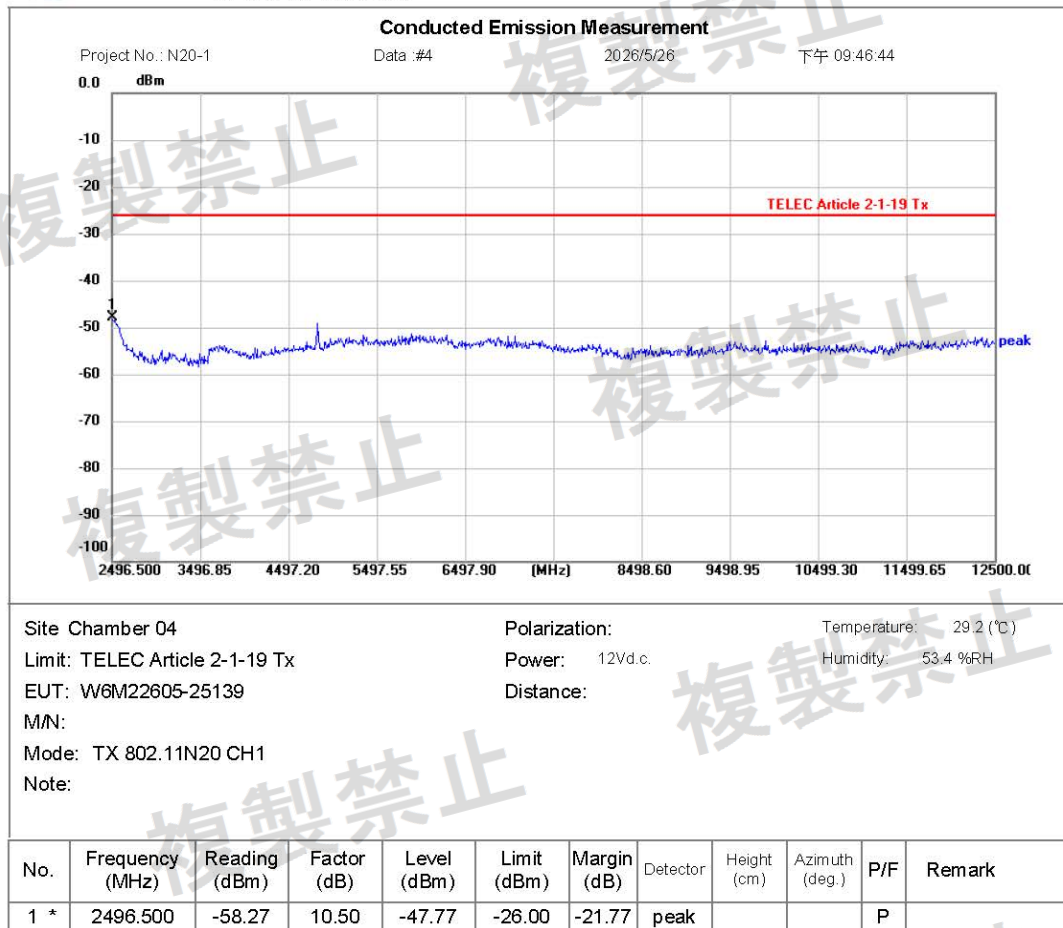
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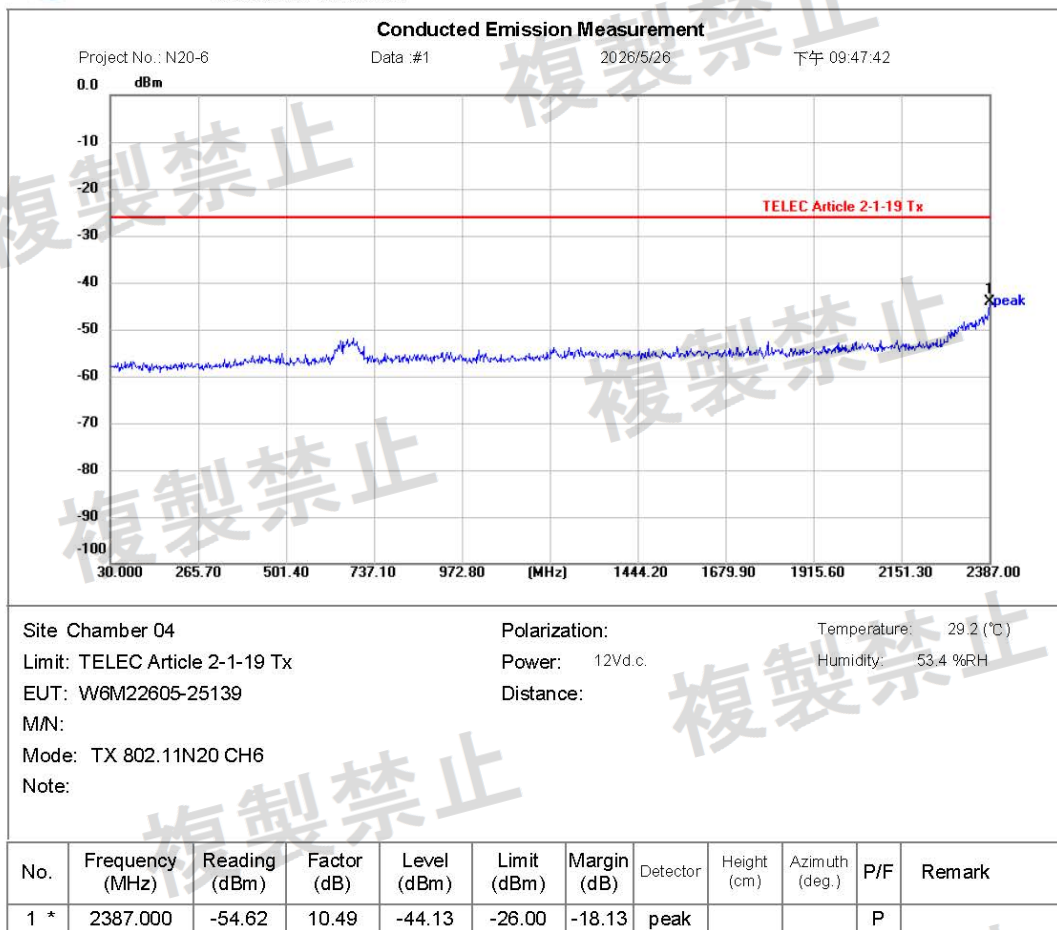
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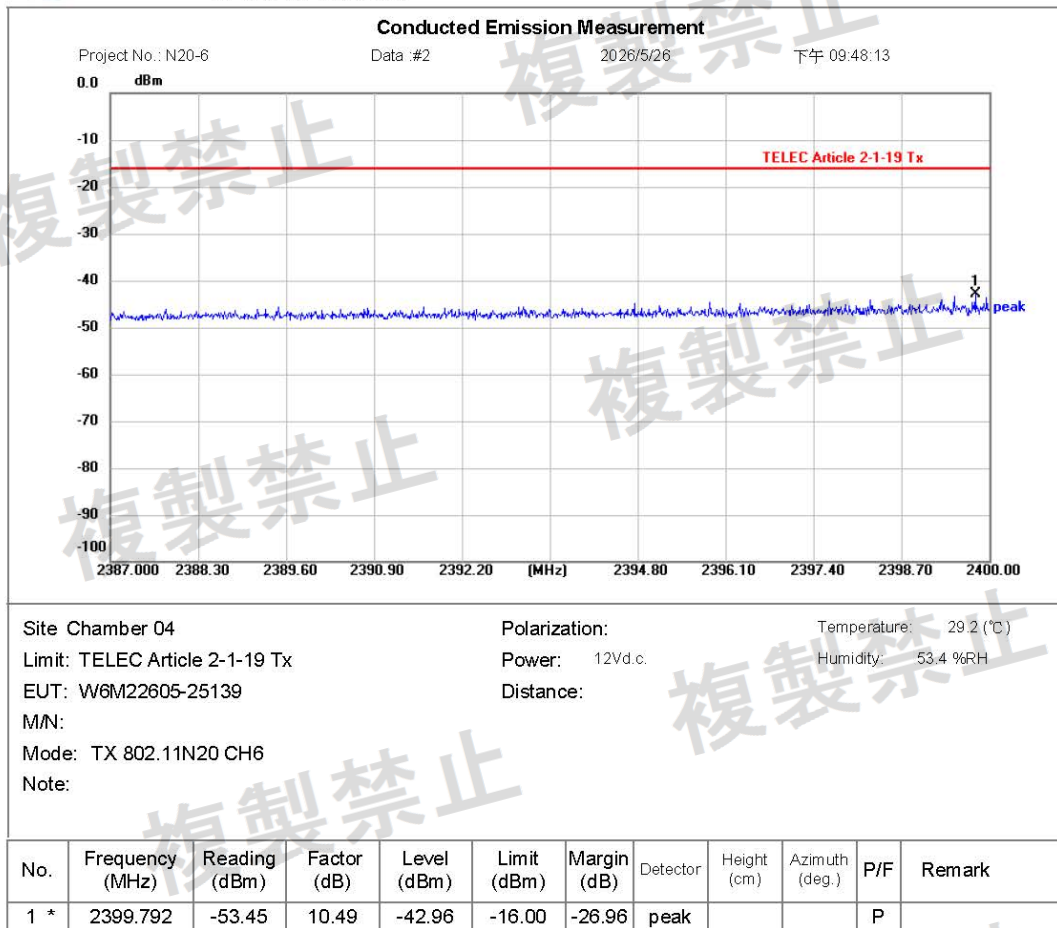
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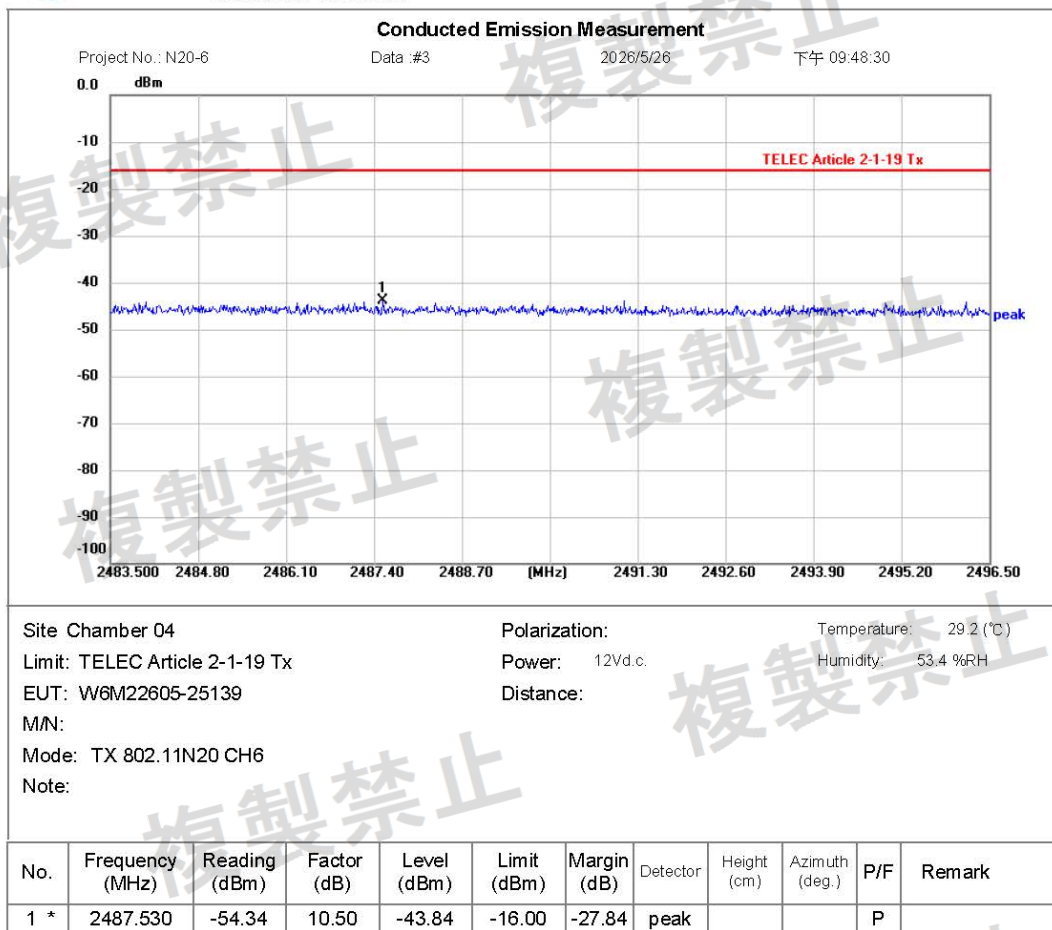
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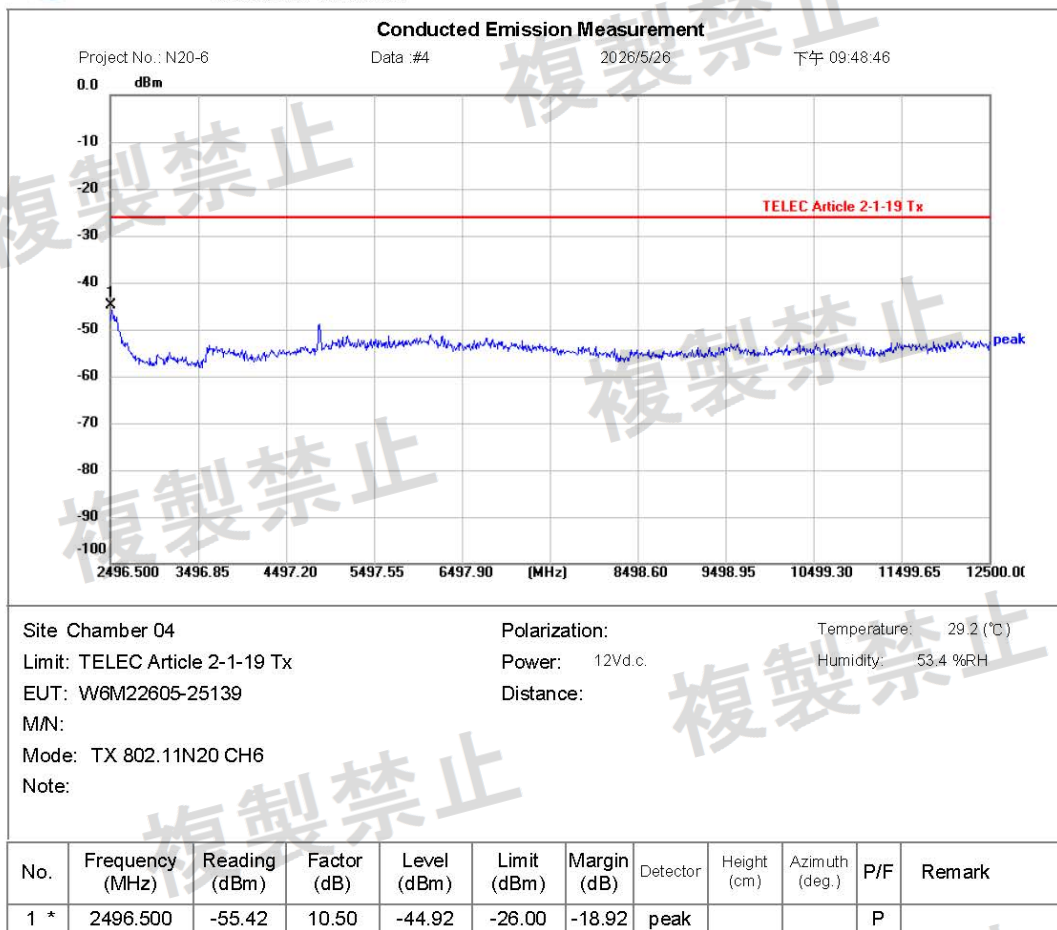
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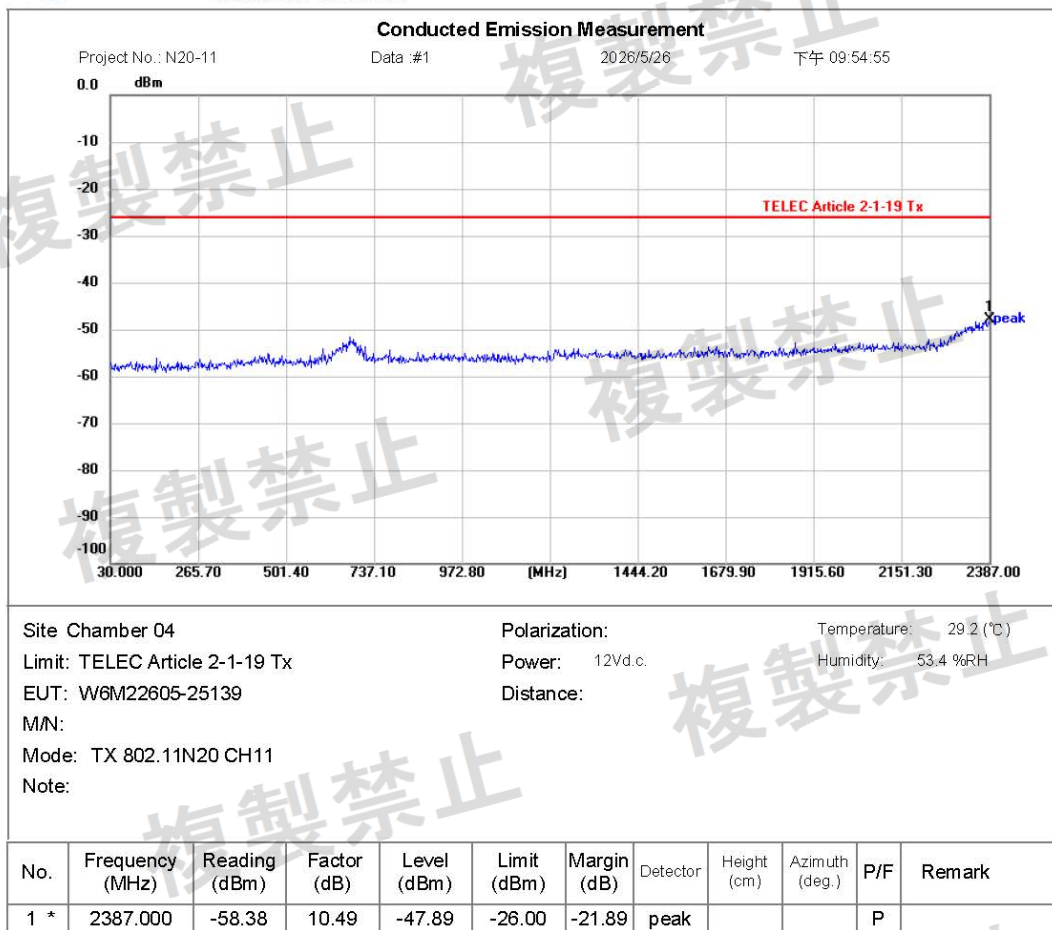
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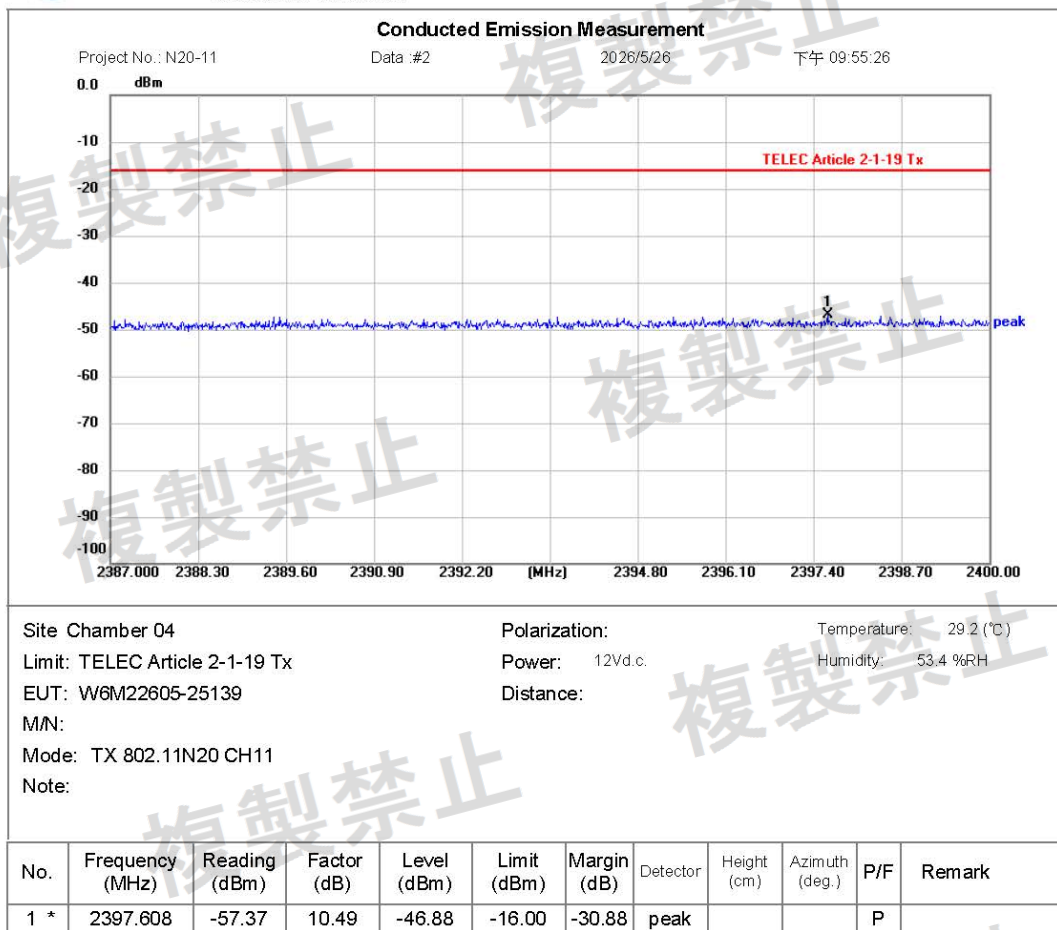
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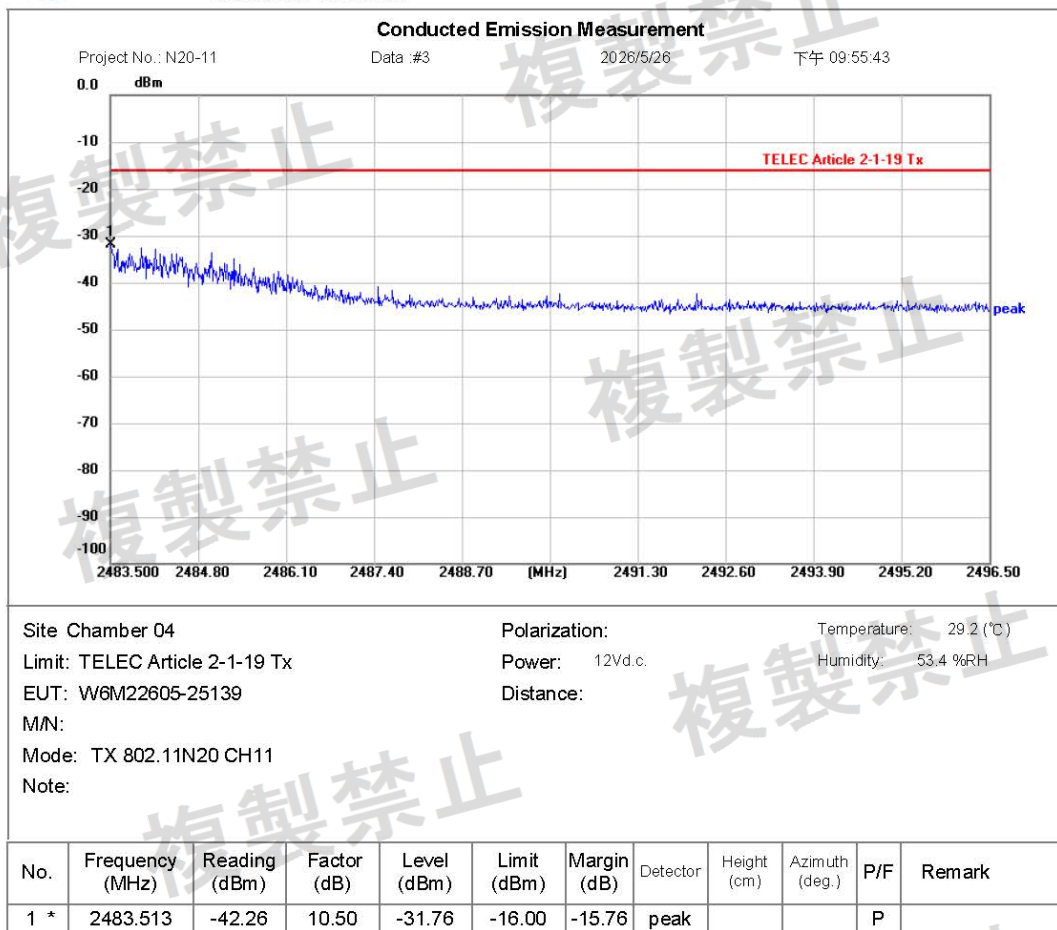
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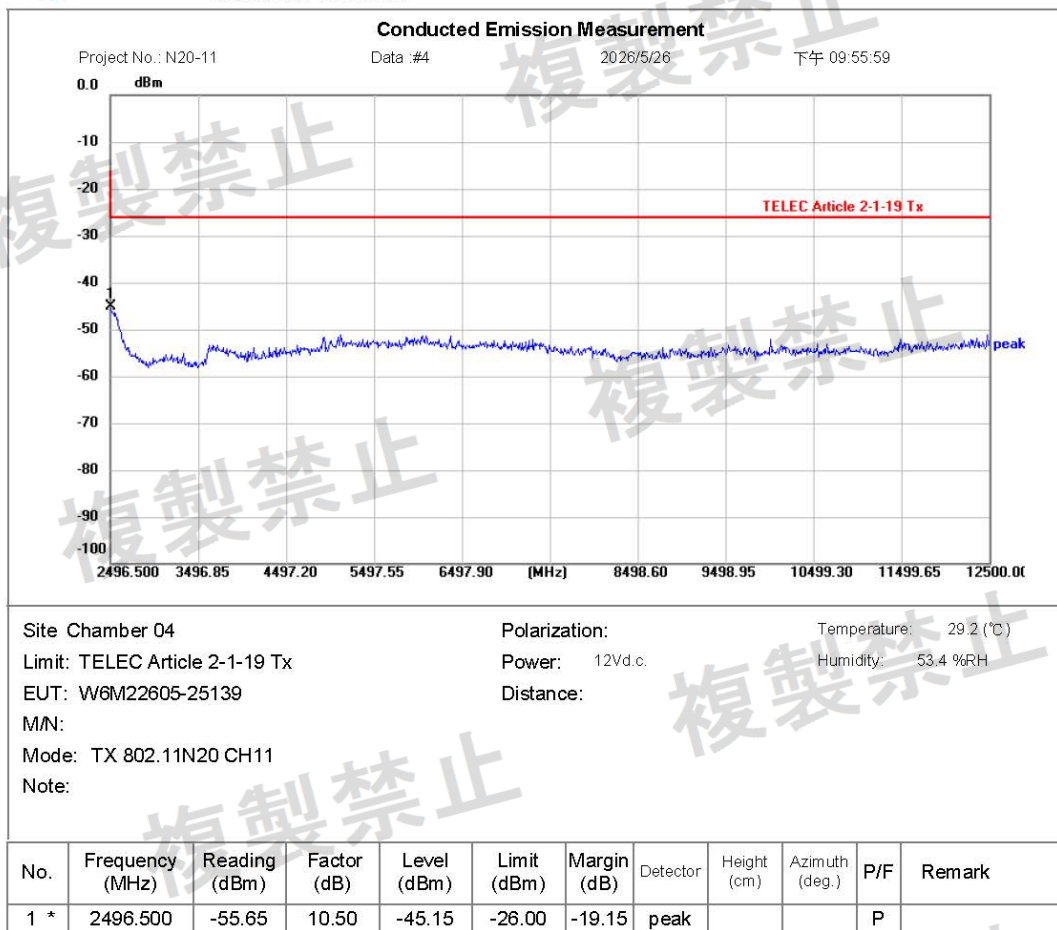
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Limits:

Transmitting operating	Operating frequency 2400 – 2483 MHz: Below 2387MHz : 2.5 μ W/MHz(-26 dBm) 2387 to 2400MHz : 25 μ W/MHz (-16 dBm) 2483.5 through 2496.5MHz : 25 μ W/MHz Over 2496.5MHz : 2.5 μ W/MHz
------------------------	---

30MHz-2387MHz

1. The measurement use RBW = 1 MHz, VBW = 1 MHz
2. The unit is dBm/MHz for the Reading, the Result, and the Limit.
3. Correction Factor = Attenuator + Cable loss
4. The formula of measured value as: Test Result = Reading + Correction Factor
5. Line: PK Limit Line

2387MHz-2400MHz

1. The measurement use RBW = 1 MHz, VBW = 1 MHz
2. The unit is dBm/MHz for the Reading, the Result, and the Limit.
3. Correction Factor = Attenuator + Cable loss
4. The formula of measured value as: Test Result = Reading + Correction Factor
5. Line: PK Limit Line

2483.5MHz-2496.5MHz

1. The measurement use RBW = 1 MHz, VBW = 1 MHz
2. The unit is dBm/MHz for the Reading, the Result, and the Limit.
3. Correction Factor = Attenuator + Cable loss
4. The formula of measured value as: Test Result = Reading + Correction Factor
5. Line: PK Limit Line

2496.5MHz-12500MHz

1. The measurement use RBW = 1 MHz, VBW = 1 MHz
2. The unit is dBm/MHz for the Reading, the Result, and the Limit.
3. Correction Factor = Attenuator + Cable loss
4. The formula of measured value as: Test Result = Reading + Correction Factor

3.5 Antenna Power

Test date: May 25, 2026

Temperature: 30.2 °C

Humidity: 54.0 %

Tester: Sky

Mode	Channel	Power (mW/MHz)	Limit (mW/MHz)
		Vnor	
802.11b	Ch 1 : 2412 MHz	4.57	10
	Ch 6 : 2437 MHz	4.42	10
	Ch 11 : 2462 MHz	4.81	10
802.11g	Ch 1 : 2412 MHz	1.07	10
	Ch 6 : 2437 MHz	2.12	10
	Ch 11 : 2462 MHz	1.20	10
802.11n 20MHz	Ch 1 : 2412 MHz	1.06	10
	Ch 6 : 2437 MHz	1.95	10
	Ch 11 : 2462 MHz	1.09	10

Rated output power	Max/Min Antenna power (mW/MHz)	Tolerance
10 mW/MHz (802.11b)	4.81	-51.90%
10 mW/MHz (802.11b)	4.42	-55.80%
10 mW/MHz (802.11g)	2.12	-78.80%
10 mW/MHz (802.11g)	1.07	-89.30%
10 mW/MHz (802.11 n 20MHz)	1.95	-80.50%
10 mW/MHz (802.11 n 20MHz)	1.06	-89.40%

Limits:

Under all test conditions	Conducted	(1) FH, FH+DS, FH+OFDM 3mW/MHz (used in the range of 2427-2470.75MHz)
		(2) Other than (1) of OFDM & DS : 10mW/MHz
		(3) Other than (1) & (2) : 10mW
		(4) 802.11n 40 MHz: 5 mW/MHz
		Tolerance: +20%, No lower limit