



Report No.: TWN2511838-01E

Applicant: Crafty Co., Ltd.

Product: Monitor

Model No.: ELV-4321K

Trade Mark: Crafty

Test Standards: Article 2 paragraph 1 item (19)
ARIB STD T-66 Ver.3.7. MIC Notice No.88 Appendix No.43

Test result: It is herewith confirmed and found to comply with the requirements set up by ARIB STD T-66 Ver.3.7 regulations for the evaluation of electromagnetic compatibility

Approved By

Terry Tang



Terry Tang

Manager

Dated: December 12, 2025

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,
Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

ISED —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road
West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Crafty Co., Ltd.
Address: 16F Shinjuku Mitsui Building, 2-1-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo
JAPAN 163-0416

1.3 Description of EUT

Product: Monitor
Manufacturer: KLEINZ CO., LTD
Address: 15-76, Suworam-gil, Seotan-myeon, Pyeongtaek-si, Gyeonggi-do, Republic of
Korea
Factory: WEIHAI TAIJI WISDOM DISPLAY PHOTOELECTRIC TECHNOLOGY
CO., LTD
Address: No. 62-3, Manxing Road, Manshan Town, Lingang Economic and
Technological Development Zone, Weihai, Shandong, China
Trademark:
Model Number: ELV-4321K
Additional Model Number: N/A
Hardware version: TP.SK529.PB807 (N) E25203 V3
Software version: SK529_PB807A_SUB_A5_1920_IR_AP_S315_
LOGO_JAPAN_COMMON_AN14_8G_ddr3_512X2MB_P_1KEY_REF75_V3_2
Rating: 100V~ 50/60Hz, 1.8A, 75W

1.4 Submitted Sample: 2 Samples

1.5 Test Duration: 2025-11-27 to 2025-12-12

1.6 Test Engineer

The sample tested by

Print Name: Andy King



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2. List of Measurement Equipment

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2025-07-11	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Amplifier	8447D	2727A05017	HP	2025-07-11	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2025-07-11	1Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2025-07-11	1Year
Horn Antenna	BBHA 9170	BBHA9170265	Schwarebeck	2025-07-11	1Year
Test Receiver	FSP	100836	RS	2025-07-11	1Year
Spectrum	FSIQ26	100292	RS	2025-07-11	1Year
Amplifier	EM-30180	060268	EM	2025-07-11	1Year
Power Meter	ML2487A	6K00003613	Anritsu	2025-07-11	1Year
Power Sensor	MA2491A	32263	Anritsu	2025-07-11	1Year
Signal Generator	N5182A	MY47431282	Agilent	2025-07-11	1Year
DC Power Supply	QJ3005T	--	Harrison	2025-07-11	1Year

Remark: 1. Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).

2. Calibration provided: Guangzhou Lisai Calibration and Testing Co.,Ltd

3. Calibration by: Hui Xiao

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3. Summary of Test

Test procedures according to the technical standards:

ARIB STD T-66 Ver.3.7			
Article 2, Paragraph 1, Item (19) Rules Section	Test Item	Judgment	Remark
1	Frequency Error	Pass	
2	Antenna Power	Pass	
3	Occupied Bandwidth (99%) and Spreading Bandwidth (90%)	Pass	
4	Unwanted Emission Strength	Pass	
5	Hopping Frequency Dwell Time (FH employed)	N/A ^{Note 2}	
6	Carrier Sense	Pass	
7	Interference prevention function	Pass	
8	Secondary Radiated Emission Strength	Pass	
9	Transmitting Antenna Absolute Gain	N/A ^{Note 1}	
10	Half Power Beam Angle (Radiation angle of antenna)	N/A ^{Note 1}	

NOTE:

N/A^{Note 1}: It is unnecessary to testing, when a E.I.R.P. is less than the variable E.I.R.P. limit of minimum (DSSS: 12.14dBm/MHz or less, FHSS (2427 - 2470.75 MHz) :6.91dBm/MHz or less, etc.)"

N/A^{Note 2}: Testing is only required for FHSS system devices

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4 Test Facility

4.1 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.6\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1G)	$\pm 4.7\text{dB}$
5	All emissions, radiated(>1G)	$\pm 5.2\text{dB}$

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5. General Information

5.1 General Description of EUT

Equipment	Monitor
Model Name	ELV-4321K
Product Description	The EUT is Monitor
	Operation Frequency: 2412~2472 MHz
	Modulation Type: 802.11b: DSSS (CCK, QPSK, DBPSK) 802.11g/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ax (HEW20/HEW40): OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
	Number Of Channel 13ch for 802.11b/g/n HT20/ax HEW20; 9ch for 802.11n HT40/ax HEW40;
	Antenna Designation: Dipole Antenna
	Antenna Gain (Peak) 1.39dBi
Channel List	Please refer to the Note 2.
Input Voltage:	100V~ 50/60Hz, 1.8A
Adapter	N/A
Battery	N/A
Hardware Version	TP.SK529.PB807 (N) E25203 V3
Software Version	SK529_PB807A_SUB_A5_1920_IR_AP_S315_ LOGO_JAPAN_COMMON_AN14_8G_ddr3_512X2MB_P_1K EY_REF75_V3_2

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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2.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	07	2442	13	2472
02	2417	08	2447	--	--
03	2422	09	2452	--	--
04	2427	10	2457	--	--
05	2432	11	2462	--	--
06	2437	12	2467	--	--

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	EWF001.D2B01B.S MAMF	Dipole Antenna	N/A	1.39 (Max.)	N/A

5.2 Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Items	Mode	Data Tate	Channel
Frequency Error	Un-nodulation	--	1/7/13
Occupied Bandwidth and Spread-spectrum Bandwidth/Factor	11b/11g/11n HT20	11/6/6.5Mbps	1/7/13
Unwanted Emission Strength	11b/11g/11n HT20	11/6/6.5Mbps	1/7/13
Antenna Power	11b/11g/11n HT20	11/6/6.5Mbps	1/7/13
Secondary Radiated Emission Strength	11b/11g/11n HT20	11/6/6.5Mbps	1/7/13
Transmitting Antenna Absolute Gain	11b/11g/11n HT20	11/6/6.5Mbps	1/7/13
Half Power Beam Angle (Radiation angle of antenna)	11b/11g/11n HT20	11/6/6.5Mbps	1/7/13
Radio Interference Prevention Capability	11b/11g/11n HT20	11/6/6.5Mbps	1/7/13
Carrier Sense Capability	11n HT40	6.5Mbps	1/7/13

Note: for 802.11n HT40, Channel 3/7/11 were tested.

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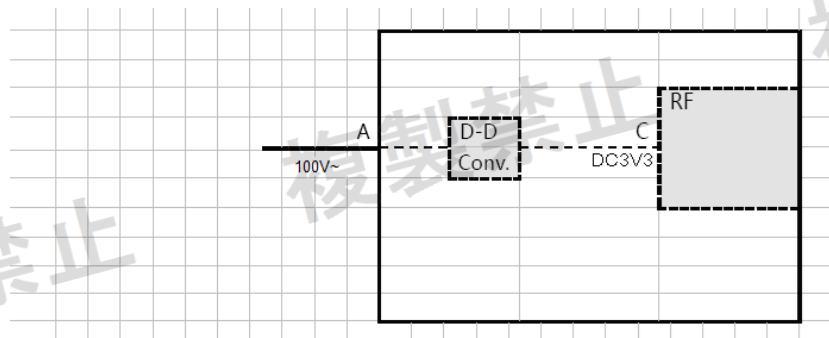
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5.3 Test Conditions

Power supply:

The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation ($\pm 1\%$) against input voltage fluctuation ($\pm 10\%$). So, all measurements were conducted at only rated voltage 100V~.



Test below:

1: The fluctuation of C point is under $\pm 1\%$, when input voltage from A point to the test equipment is fluctuated by $\pm 10\%$.

The measurement result of the voltage fluctuation at RF circuit when 100V~ +/- 10%

100V~	DC3.3V
90V~	DC3.3V
110V~	DC3.3V

Pre-test the EUT in all voltage mode at the 100V~, 90V~ and 110V~ and conducted to determine the worst-case mode, only the worst-case results (100V~) are recorded in this report.

The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation ($\pm 1\%$) against input voltage fluctuation ($\pm 10\%$). So, all measurements were conducted at only rated voltage 100V~.

Temperature:

25.0°C

Humidity:

56 % RH

Atmospheric Pressure:

101kPa

Test frequencies:

If the EUT can be set to 3 or more different (carrier) frequencies in 1 allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L, M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.

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Voltage Fluctuation Test	Normal Voltage	High Voltage	Low Voltage
AC Power	100V~	110V~	90V~

Note: 1. During the test, the input supply voltage to the EUT from the external power source is varied.

5.4 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

For 802.11b/g/n HT20

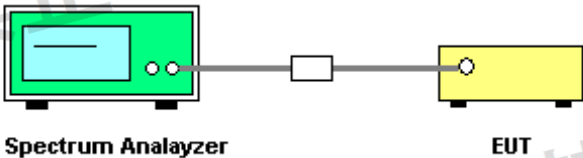
Test software Version	Test program: N/A		
Frequency	2412 MHz	2442 MHz	2472 MHz
Parameters	DEF	DEF	DEF

For 802.11n H40

Test software Version	Test program: N/A		
Frequency	2422 MHz	2442 MHz	2462 MHz
Parameters	DEF	DEF	DEF

5.5 Block Diagram Showing the Configuration of System Tested

Mode:



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5.6 Block Diagram Showing the Configuration of System Tested

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.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Monitor	Crafty	ELV-4321K	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

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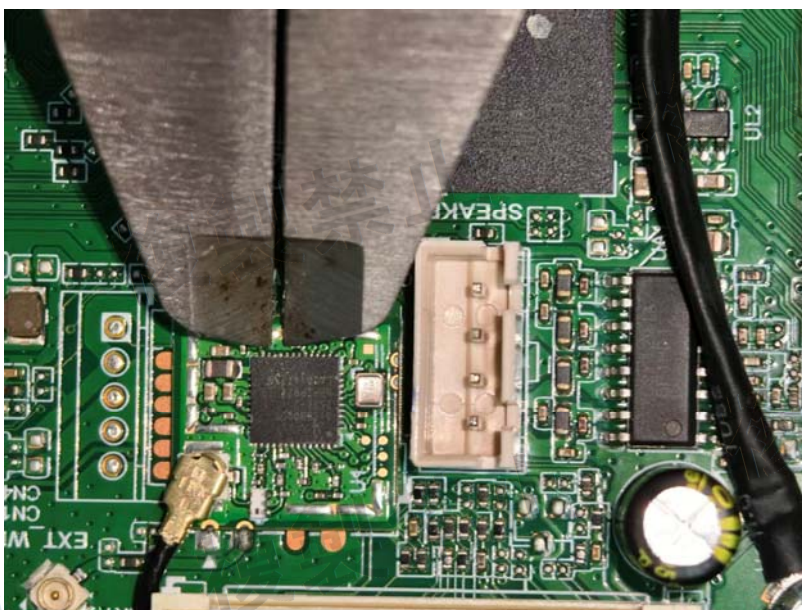
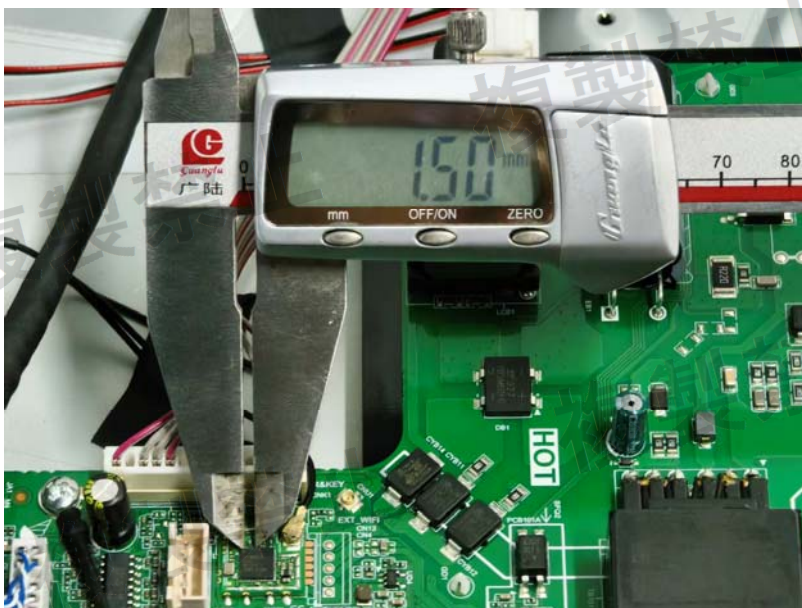


6. RF Shielding Method

We apply the product for Japan RF certification.

1. Total Pins of RF IC: 48
2. Terminal pitch is less than 1.5mm. Please refer to following for photo for details.

It is not easily removed. Please refer to following for photo for details.



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7. Frequency Error

7.1 Limit

Item	Limits
Frequency Error	$\pm 50\text{ppm}$

7.2 Measuring Instrument and Setting

The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10kHz/30kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
Span	200kHz

7.3 Test Procedures

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
 - (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
 - (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
 - (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.
- In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the

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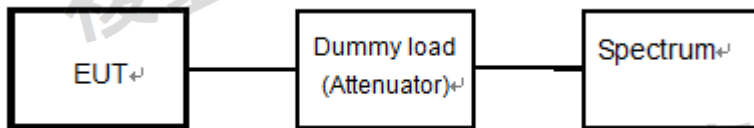
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spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

7.4 Test Setup Layout



7.5 Environment Condition

Temperature: 25°C
Humidity: 56% RH

Note: Pre-test the EUT in all voltage mode at the 100V~, 110V~ and 90V~ and conducted to determine the worst-case mode, only the worst-case results (100V~) are recorded in this report.

The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation ($\pm 1\%$) against input voltage fluctuation ($\pm 10\%$). So, all measurements were conducted at only rated voltage 100V~.

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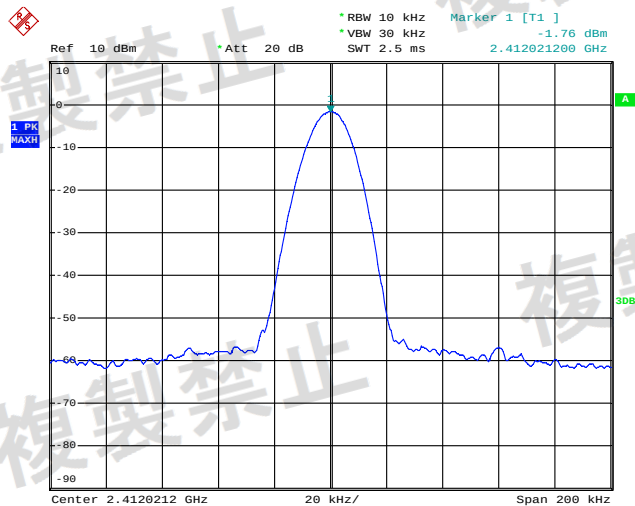
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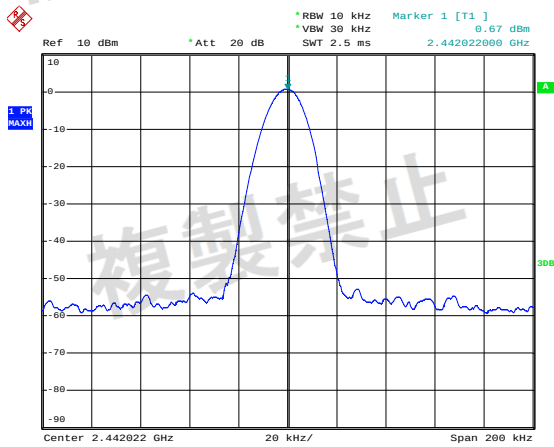
7.6 TEST RESULT

Frequency	Reading	Tolerance	Limit	Remark
MHz	MHz	ppm	(ppm)	
2412	2412.0212	8.789	±50	Normal Voltage:100V~
2442	2442.022	9.009	±50	
2472	2472.0216	8.738	±50	
2422	2422.0252	10.405	±50	
2462	2462.024	9.748	±50	

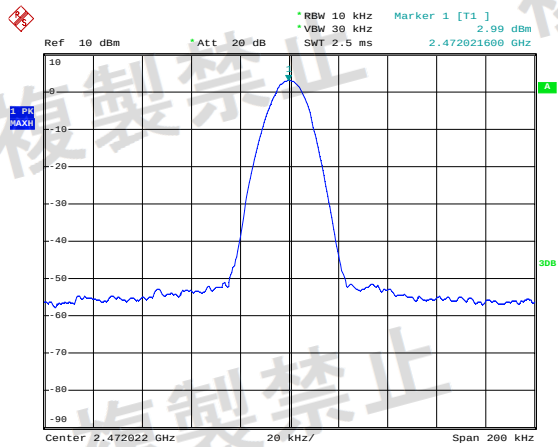


Date: 29.NOV.2025 12:43:19

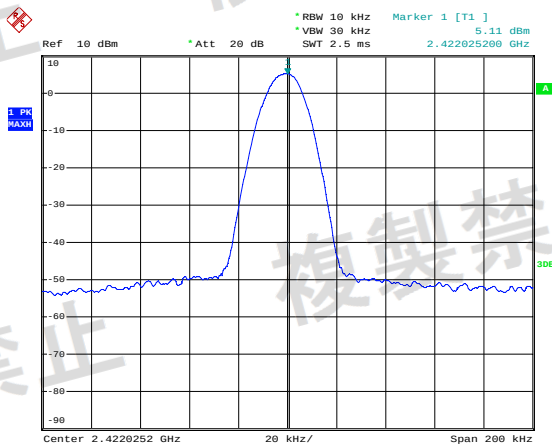
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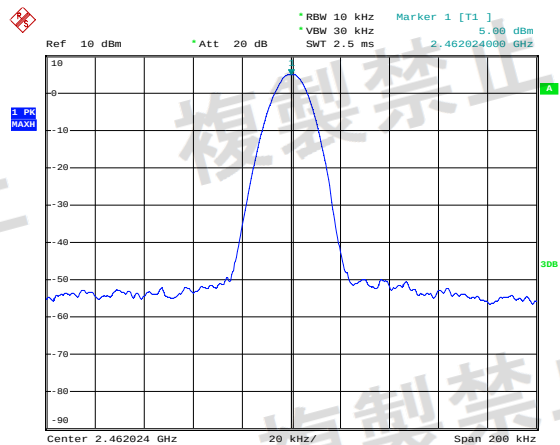
Date: 29.NOV.2025 12:42:51



Date: 29.NOV.2025 12:41:55



Date: 29.NOV.2025 12:45:28



Date: 29.NOV.2025 12:46:21

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8. Antenna Power

8.1 Limit

Item	Limits
Antenna Power Density	$\leq 3\text{mW/MHz}$ (FH form 2427 - 2470.75 MHz) $\leq 10\text{mW/MHz}$ (OFDM,DS from 2400~2483.5MHz) $\leq 10\text{mW}$ (Other from 2400~2483.5MHz)
Antenna Power Error	+20% (Base on manufacturer declare antenna power density)

8.2 Test Procedures

1. Step 1:

Connect the UUT to the spectrum analyzer as TEST CONFIGURATION 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 UUT.
- Detector: Peak
- Trace Mode: Max Hold

Step 2:

When the trace is complete, find the peak value of the power envelope and record the frequency. Center frequency:

Step 3: Make the following changes to the settings of the spectrum analyser:

- Centre Frequency: Equal to the frequency recorded in step 2.
- Span: 3 MHz • RBW: 1 MHz • VBW: 1 MHz
- Detector: PK
- Trace Mode: Max Hold

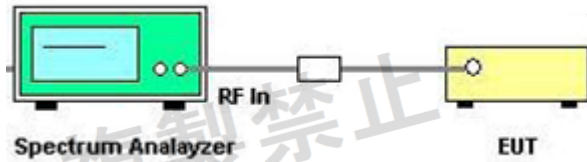
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8.3 Test Setup Layout



8.4 Test Deviation

There is no deviation with the original standard.

Note: Pre-test the EUT in all voltage mode at the 100V~, 110V~ and 90V~ and conducted to determine the worst-case mode, only the worst-case results (100V~) are recorded in this report.

The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation ($\pm 1\%$) against input voltage fluctuation ($\pm 10\%$). So, all measurements were conducted at only rated voltage 100V~.

The report refers only to the sample tested and does not apply to the bulk.

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8.5 TEST RESULT

802.11b Mode

EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	CH 01/CH 07/CH13, 1Mbps		

Manufacturer declared the conducted power density=2.0mW/MHz

Frequency (MHz)	Antenna Power		Antenna Power Error	EIRP
	(dBm/MHz)	(mW/MHz)	(%)	(dBm/MHz)
2412	-1.54	0.70	-65.0	-0.15
2442	0.46	1.11	-44.5	1.85
2472	1.96	1.57	-21.5	3.35

802.11g Mode

EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	CH 01/CH 07/CH13, 6Mbps		

Manufacturer declared the conducted power density=2.0mW/MHz

Frequency (MHz)	Antenna Power		Antenna Power Error	EIRP
	(dBm/MHz)	(mW/MHz)	(%)	(dBm/MHz)
2412	-1.59	0.69	-65.5	-0.20
2442	1.06	1.28	-36.0	2.45
2472	2.49	1.77	-11.5	3.88

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802.11n HT20 Mode

EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	CH 01/CH 07/CH13, 6.5Mbps		

Manufacturer declared the conducted power density=2.0mW/MHz

Frequency (MHz)	Antenna Power		Antenna Power Error	EIRP
	(dBm/MHz)	(mW/MHz)	(%)	(dBm/MHz)
2412	-1.70	0.68	-66.0	-0.31
2442	0.82	1.21	-39.5	2.21
2472	2.09	1.62	-19.0	3.48

802.11n HT40 Mode

EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	CH 01/CH 07/CH13, 6.5Mbps		

Manufacturer declared the conducted power density=1.0mW/MHz

Frequency (MHz)	Antenna Power		Antenna Power Error	EIRP
	(dBm/MHz)	(mW/MHz)	(%)	(dBm/MHz)
2422	-3.58	0.44	-56.0	-2.19
2442	-1.64	0.69	-31.0	-0.25
2462	-0.56	0.88	-12.0	0.83

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802.11ax HEW20 Mode

EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	CH 01/CH 07/CH13, 6.5Mbps		

Manufacturer declared the conducted power density=2.0mW/MHz

Frequency (MHz)	Antenna Power		Antenna Power Error	EIRP
	(dBm/MHz)	(mW/MHz)	(%)	(dBm/MHz)
2412	3.06	2.02	1.00	4.45
2442	3.16	2.07	3.50	4.55
2472	2.82	1.91	-4.50	4.21

802.11ax HEW40 Mode

EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	CH 01/CH 07/CH13, 6.5Mbps		

Manufacturer declared the conducted power density=1.5mW/MHz

Frequency (MHz)	Antenna Power		Antenna Power Error	EIRP
	(dBm/MHz)	(mW/MHz)	(%)	(dBm/MHz)
2422	0.96	1.25	-20.0	2.35
2442	1.30	1.35	-23.3	2.69
2462	1.09	1.29	-19.3	2.48

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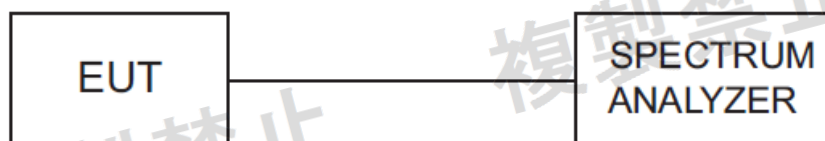


9. Occupied Bandwidth (99%) and Spreading Bandwidth (90%)

Limit:

- Occupied bandwidth: FH $\leq$ 83.5 MHz; OFDM: 26-40MHz, DS $\leq$ 26MHz;
Other method (Except SS & OFDM) $\leq$ 26MHz
- Spread Bandwidth: $\geq$ 500kHz, Spread factor $\geq$ 5

Test Configure



Test Procedure:

1. Setting of SA is following as follow:
RBW: 100 kHz
VBW: 300 kHz
Sweep time: Auto
Sweep Mode: Continuous sweep
Detect mode: Positive peak
Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.
3. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 90% of occupied bandwidth to measure spread bandwidth.
4. Spread Factor=Spread Bandwidth/modulation rate. The modulation rate: MR=1.375 for 802.11b, MR=1.5 for 802.11g/n20, MR=3 for 802.11n40.

9.1 TEST RESULT

Environment Condition:

Temperature: 25°C
Humidity: 56% RH

Note: Pre-test the EUT in all voltage mode at the 100V~, 110V~ and 90V~ and conducted to determine the worst-case mode, only the worst-case results (100V~) are recorded in this report.

The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation ($\pm 1\%$) against input voltage fluctuation ($\pm 10\%$). So, all measurements were conducted at only rated voltage 100V~.

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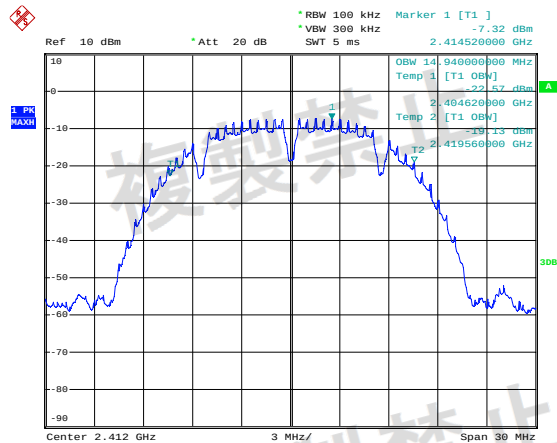
Test voltage(V)	Type	Channel (MHz)	Occupy Bandwidth (MHz)	Limit (MHz)	Result	
100V~	802.11b	2412	14.94	≤26MHz	Pass	
		2442	14.88			
		2472	14.94			
	802.11g	2412	16.38			
		2442	16.32			
		2472	16.38			
	802.11n HT20	2412	17.52	26-40		
		2442	17.52			
		2472	17.58			
	802.11n HT40	2422	36.10			≤26MHz
		2442	36.10			
		2462	36.00			
	802.11ax HEW20	2412	18.90	26-40		
		2442	18.90			
		2472	18.90			
	802.11ax HEW40	2422	37.70	26-40		
		2442	37.70			
		2462	37.70			

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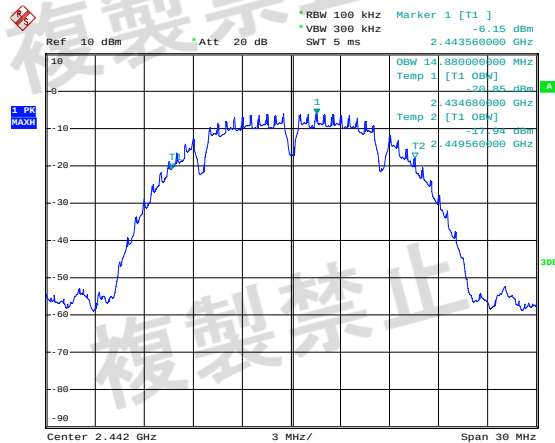


Test Figure:

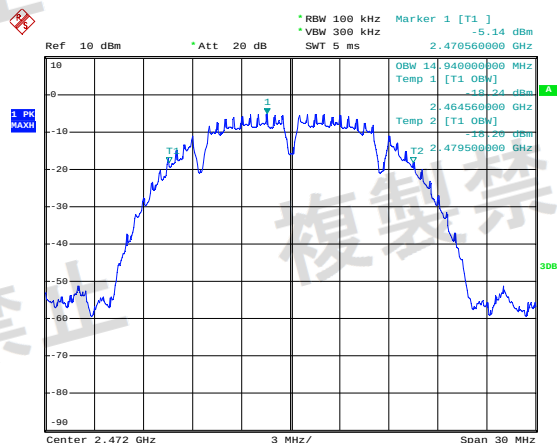
802.11b Mode, Normal Voltage



Date: 29.NOV.2025 08:10:18



Date: 29.NOV.2025 08:41:58



Date: 29.NOV.2025 08:50:02

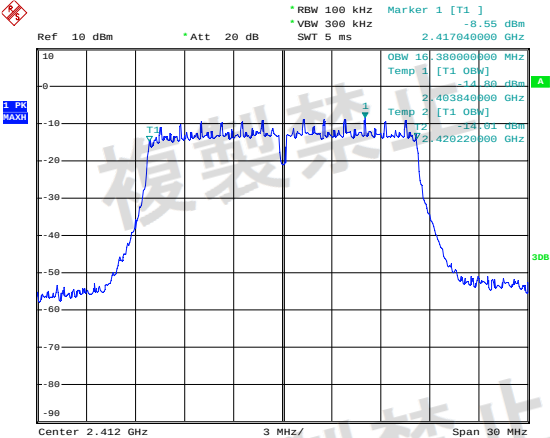
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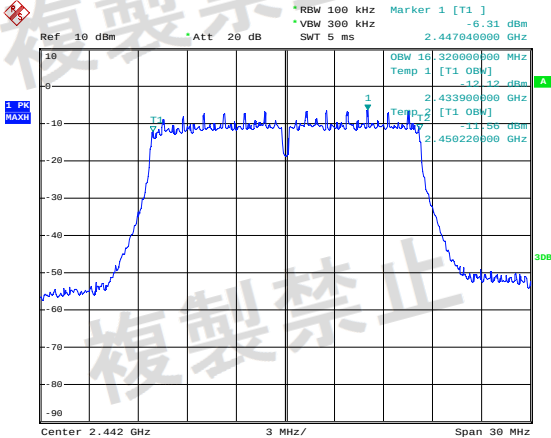
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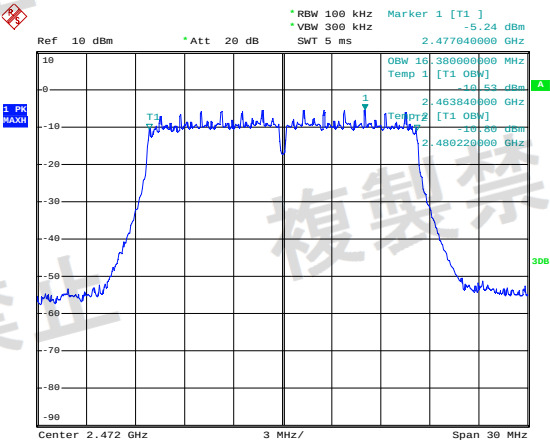
Test Figure:
802.11g Mode, Normal Voltage



Date: 29.NOV.2025 08:24:10



Date: 29.NOV.2025 08:40:23

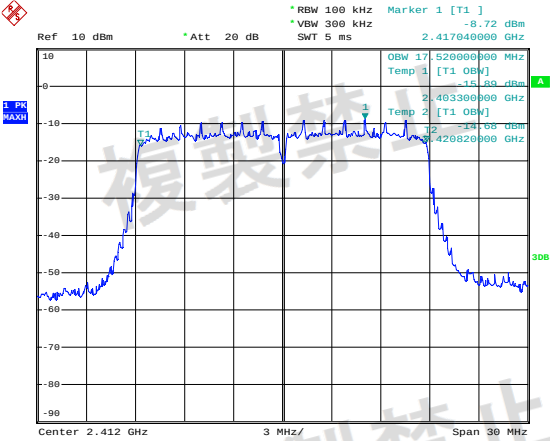


Date: 29.NOV.2025 08:51:52

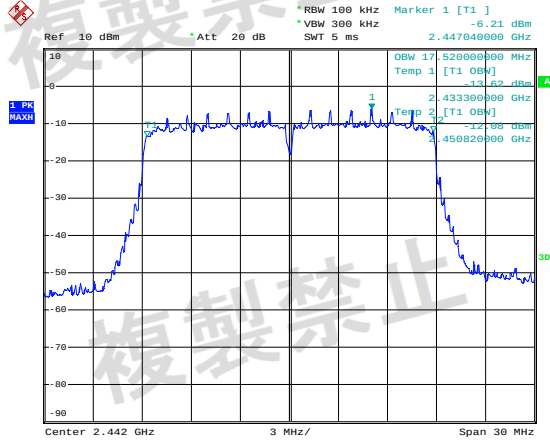
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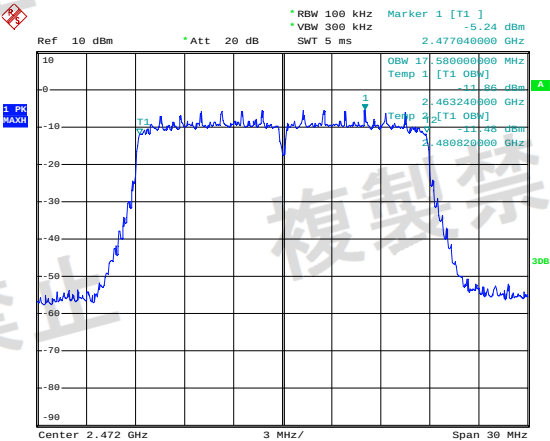
Test Figure:
802.11n HT20 Mode, Normal Voltage



Date: 29.NOV.2025 08:31:57



Date: 29.NOV.2025 08:34:45

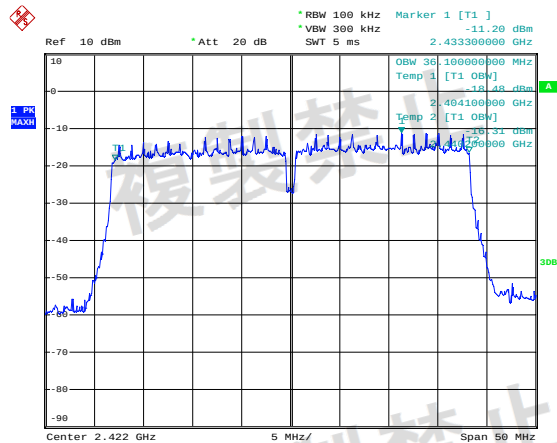


Date: 29.NOV.2025 08:54:15

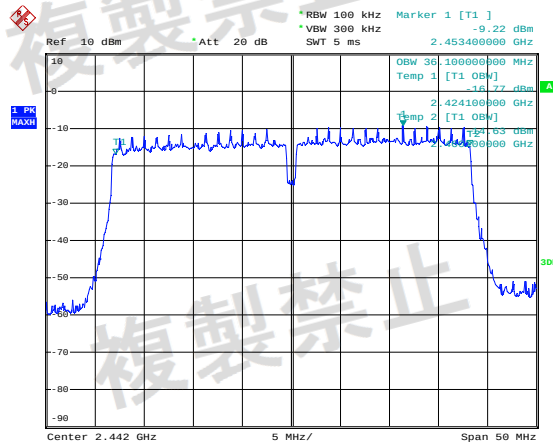
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**Test Figure:**

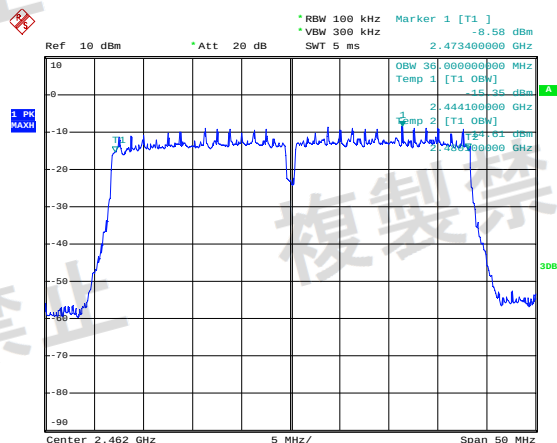
802.11n HT40 Mode, Normal Voltage



Date: 29.NOV.2025 09:06:39



Date: 29.NOV.2025 09:09:02



Date: 29.NOV.2025 09:13:17

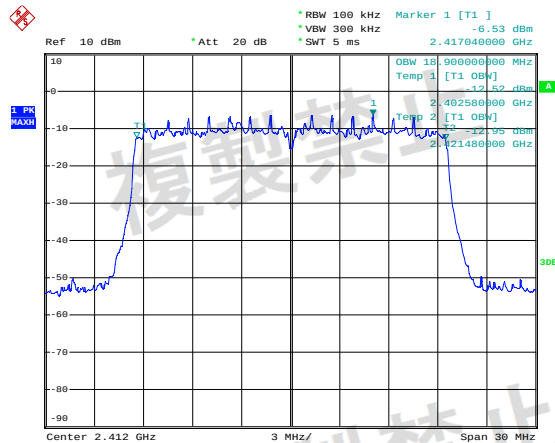
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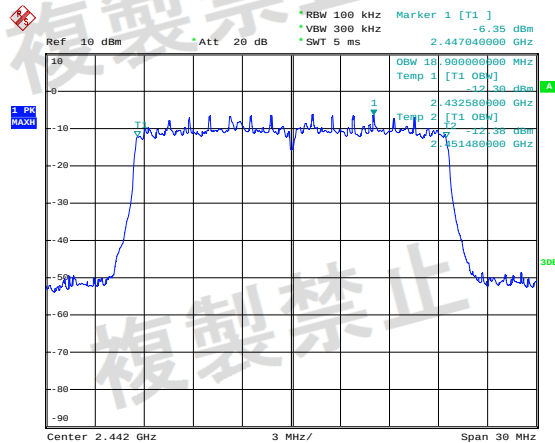
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**Test Figure:**

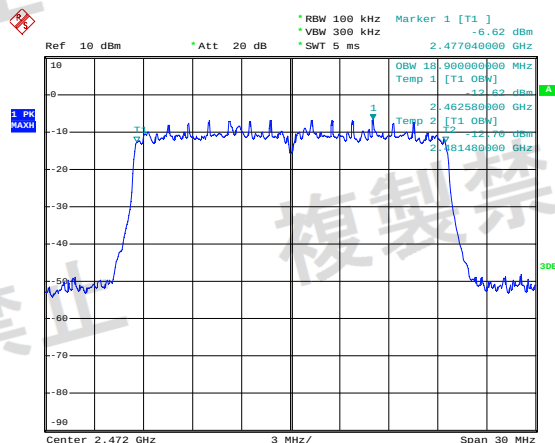
802.11ax HEW20 Mode, Normal Voltage



Date: 12.DEC.2025 10:45:25



Date: 12.DEC.2025 10:50:30



Date: 12.DEC.2025 10:57:50

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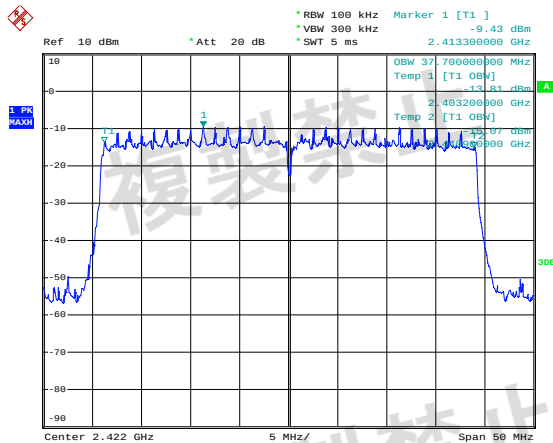
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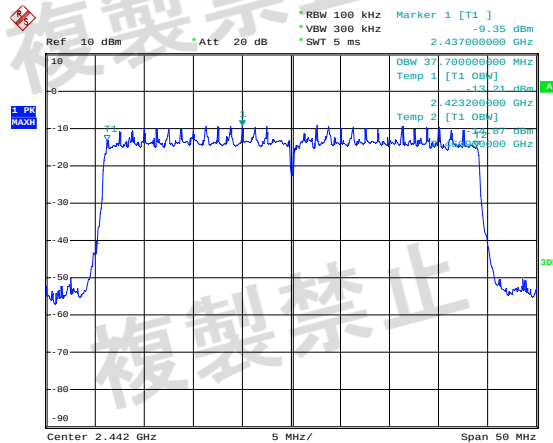


Test Figure:

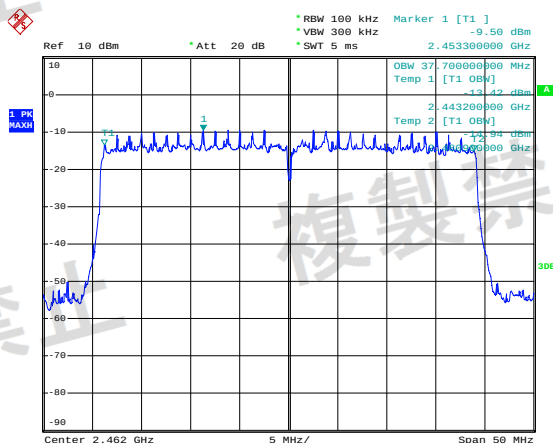
802.11ax HEW40Mode, Normal Voltage



Date: 12.DEC.2025 10:59:23



Date: 12.DEC.2025 11:03:48



Date: 12.DEC.2025 11:04:54

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Test voltage(V)	Type	Channel (MHz)	Spreading Bandwidth (MHz)	Spread Factor	Spread Bandwidth Limit (MHz)	Spread Factor Limit	Result
100V~	802.11b	2412	10.56	7.680	>0.5	>5	Pass
		2442	10.56	7.680			
		2472	10.56	7.680			
	802.11g	2412	14.64	9.760	>0.5	>5	
		2442	14.64	9.760			
		2472	14.70	9.800			
	802.11n HT20	2412	15.36	10.24	>0.5	>5	
		2442	15.24	10.16			
		2472	15.24	10.16			
	802.11n HT40	2422	32.30	10.77	>0.5	>5	
		2442	32.20	10.73			
		2462	32.10	10.70			
	802.11ax HEW20	2412	16.62	11.08	>0.5	>5	
		2442	16.62	11.08			
		2472	16.62	11.08			
	802.11ax HEW40	2422	33.50	11.17	>0.5	>5	
		2442	33.50	11.17			
		2462	33.40	11.13			

Note 1: Spread Factor= Spreading Bandwidth/modulation rate. The modulation rate: MR=1.375 for 802.11b, MR=1.5 for 802.11g/n HT20/ax HEW20, MR=3 for 802.11n40/ax HEW40.

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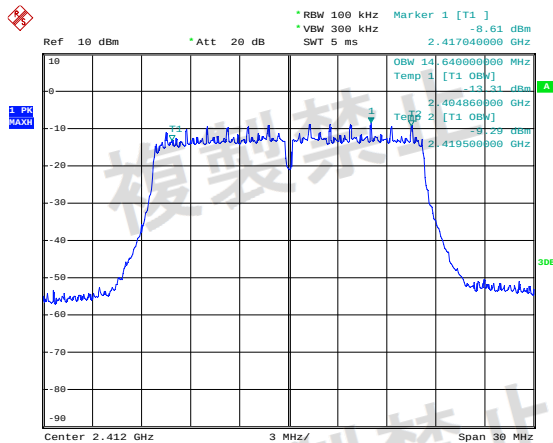
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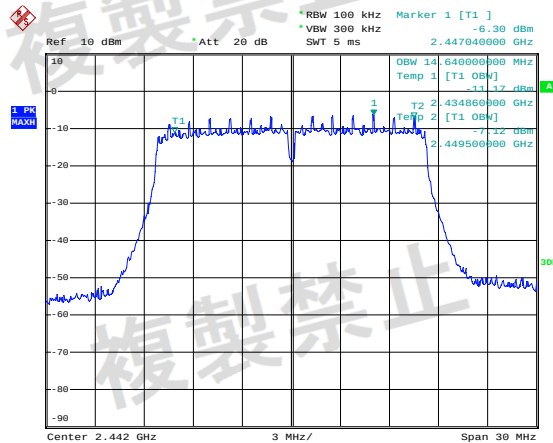


Test Figure:

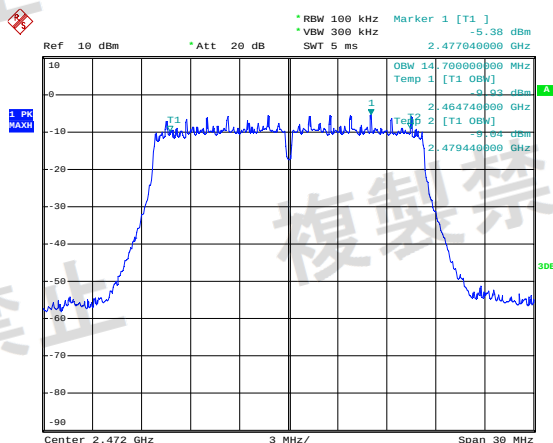
802.11g Mode, Normal Voltage



Date: 29.NOV.2025 08:27:58



Date: 29.NOV.2025 08:38:27



Date: 29.NOV.2025 08:52:35

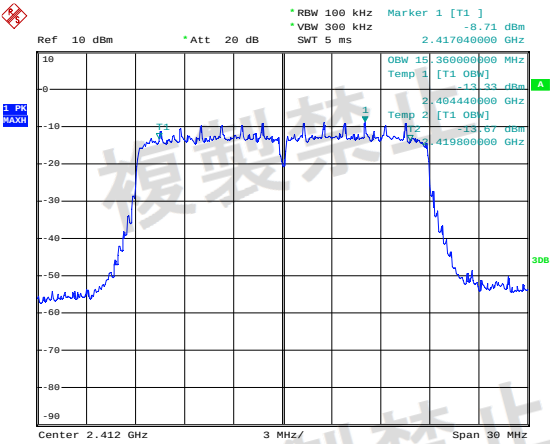
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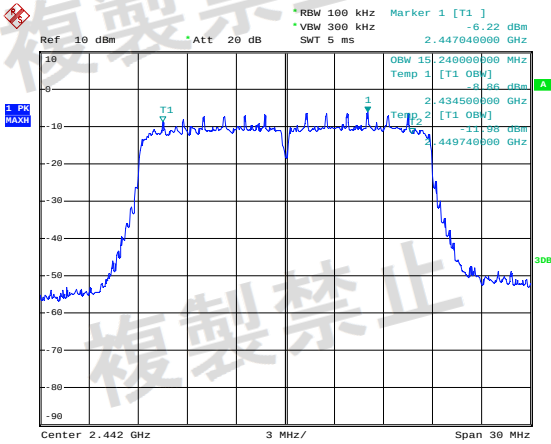
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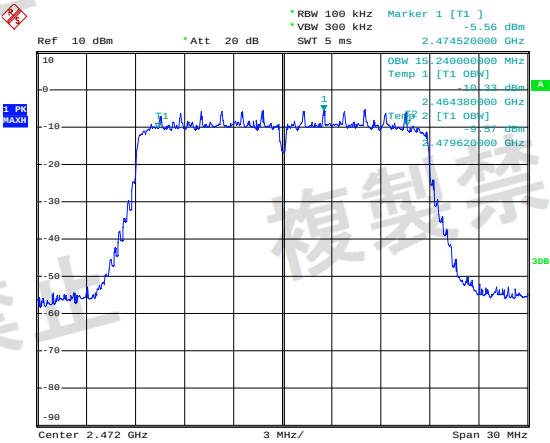
Test Figure:
802.11n HT20 Mode, Normal Voltage



Date: 29.NOV.2025 08:29:48



Date: 29.NOV.2025 08:36:47



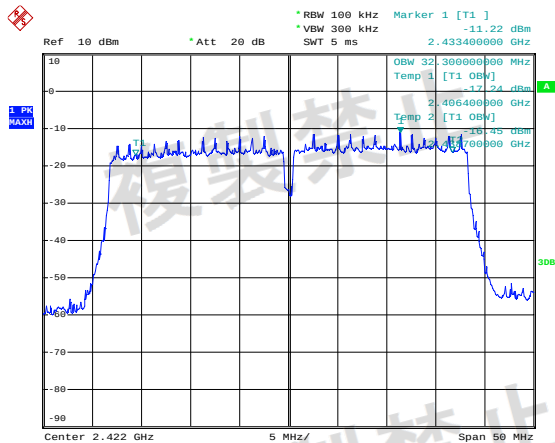
Date: 29.NOV.2025 08:53:27

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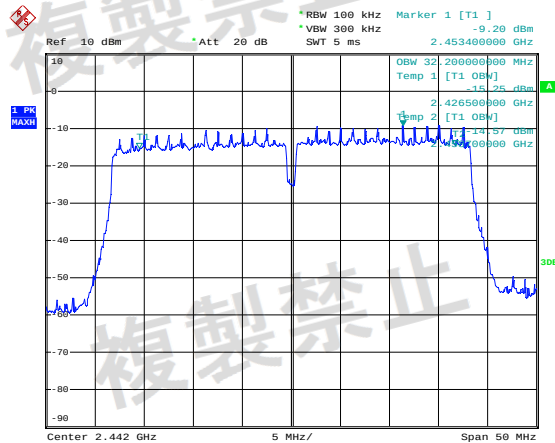


Test Figure:

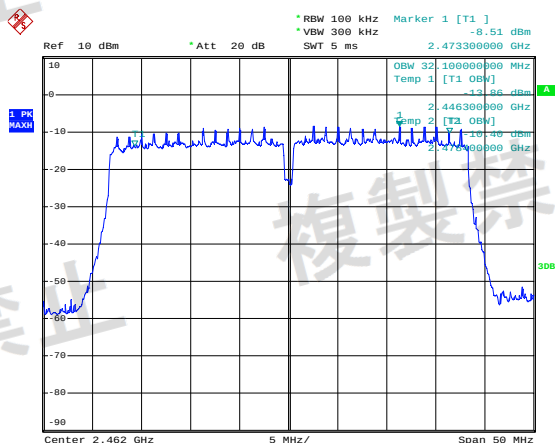
802.11n HT40 Mode, Normal Voltage



Date: 29.NOV.2025 09:07:28



Date: 29.NOV.2025 09:08:28



Date: 29.NOV.2025 09:14:50

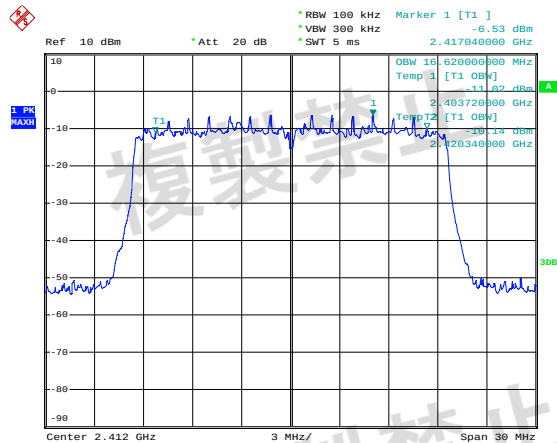
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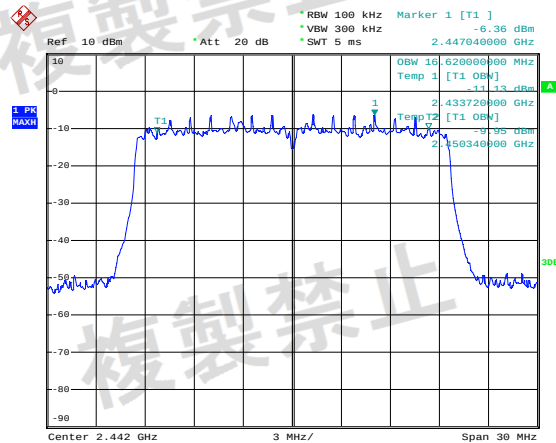
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

**Test Figure:**

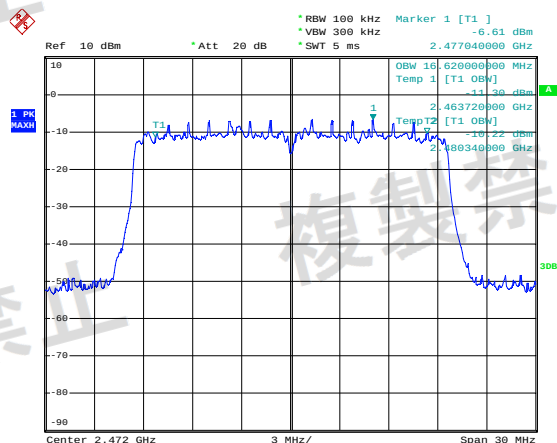
802.11ax HEW20 Mode, Normal Voltage



Date: 12.DEC.2025 10:42:51



Date: 12.DEC.2025 10:52:40



Date: 12.DEC.2025 10:56:09

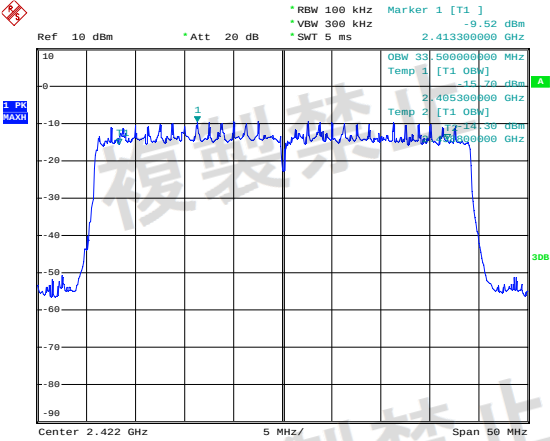
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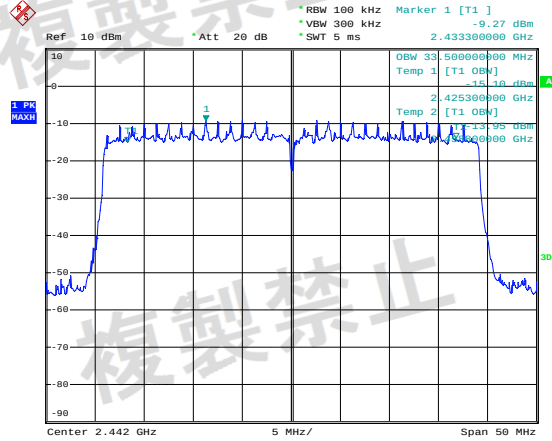
In the event of the improper use of the report, The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



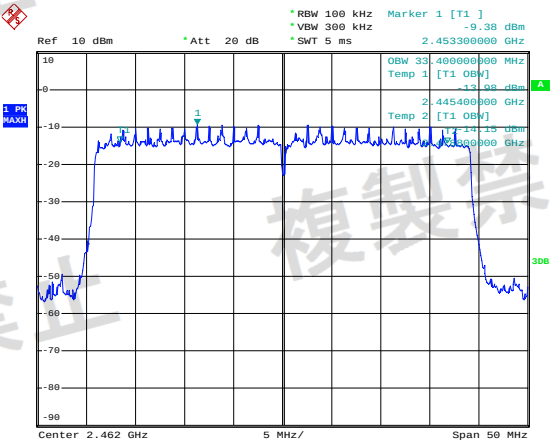
Test Figure:
802.11ax HEW40 Mode, Normal Voltage



Date: 12.DEC.2025 11:00:46



Date: 12.DEC.2025 11:02:19



Date: 12.DEC.2025 11:05:43

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10. Unwanted Emission Strength

10.1 Limit

Item	Limits
TX Spurious Emission	$\leq 2.5 \mu\text{W}$ (-26dBm) ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5 \mu\text{W}$ (-26dBm) ($1000\text{MHz} < f \leq 2387\text{MHz}$)
	$\leq 25 \mu\text{W}$ (-16dBm) ($2387\text{MHz} < f \leq 2400\text{MHz}$)
	$\leq 25 \mu\text{W}$ (-16dBm) ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$)
	$\leq 2.5 \mu\text{W}$ (-26dBm) ($2496.5\text{MHz} \leq f < 12500\text{MHz}$)

10.2. Measuring Instrument and Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

10.3. Test Procedures

- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as: Below 1GHz RB:1MHz / VB:1MHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold
- Setting of SA is following as 30MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5 μ W.

The report refers only to the sample tested and does not apply to the bulk.

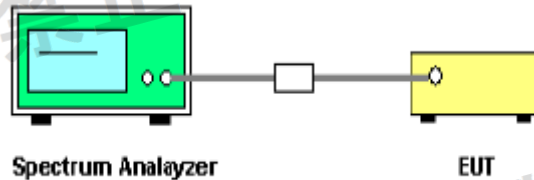
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for advertising. The client to whom the report is issued may, however, show or send it, or a certified copy thereof prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES, to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES, will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

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4. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25 μ W.
5. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25 μ W
6. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5 μ W
7. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.

10.4. Test Setup Layout



10.5. Test Deviation

There is no deviation with the original standard.

Note: Pre-test the EUT in all voltage mode at the 100V~, 110V~ and 90V~ and conducted to determine the worst-case mode, only the worst-case results (100V~) are recorded in this report.

The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation ($\pm 1\%$) against input voltage fluctuation ($\pm 10\%$). So, all measurements were conducted at only rated voltage 100V~.

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10.6. TEST RESULT

EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11b 2412MHz		

Test Data:

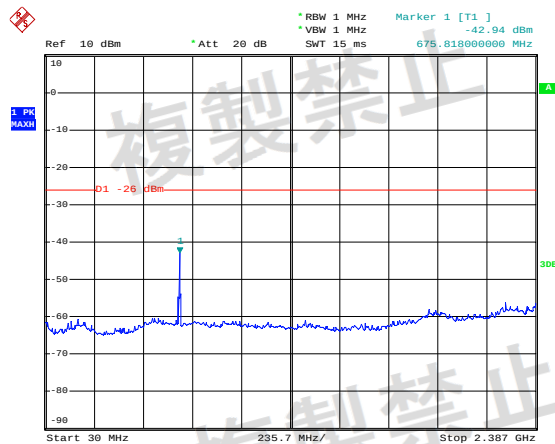
Test Data of Unwanted Emissions Strength								
Volge	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μ W/MHz)	Limit (μ W/MHz)	P/F
NV	802.11b	2412	30-2387	675.818000	-42.94	0.05082	2.5	Pass
NV	802.11b	2412	2387-2400	2399.92200	-51.17	0.00764	25	Pass
NV	802.11b	2412	2483.5-2496.5	2495.7980	-53.90	0.00407	25	Pass
NV	802.11b	2412	2496.5-12500	4817.31200	-49.16	0.01213	2.5	Pass

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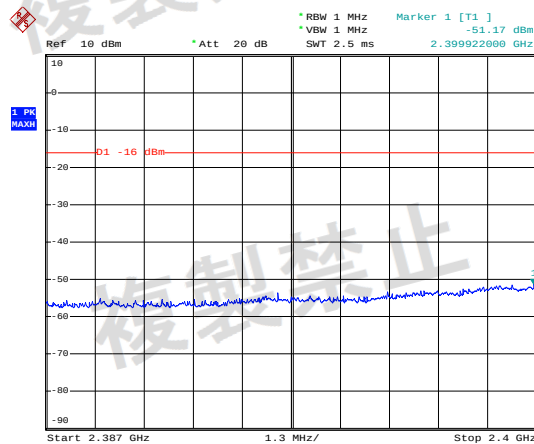
Test Figure:

2412MHz (30 MHz $\leq f \leq$ 2387 MHz)



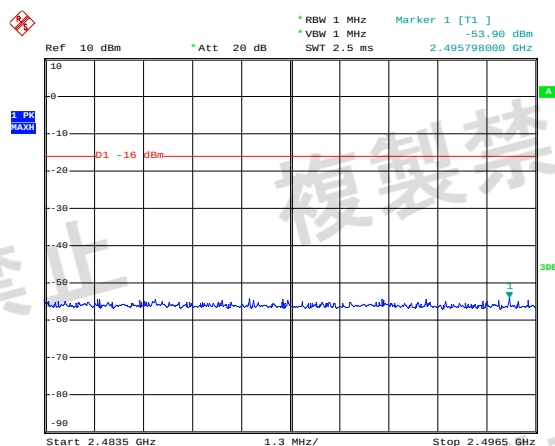
Date: 29.NOV.2025 12:48:14

2412MHz (2387 MHz < f ≤ 2400 MHz)



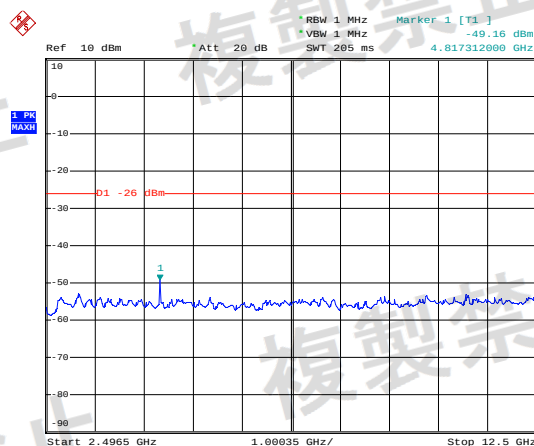
Date: 29.NOV.2025 14:18:28

2412MHz (2483.5 MHz < f ≤ 2496.5 MHz)



Date: 29.NOV.2025 14:30:54

2412MHz (2496.5 MHz ≤ f < 12.5GHz)



Date: 29.NOV.2025 16:13:20

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EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11b 2442MHz		

Test Data:

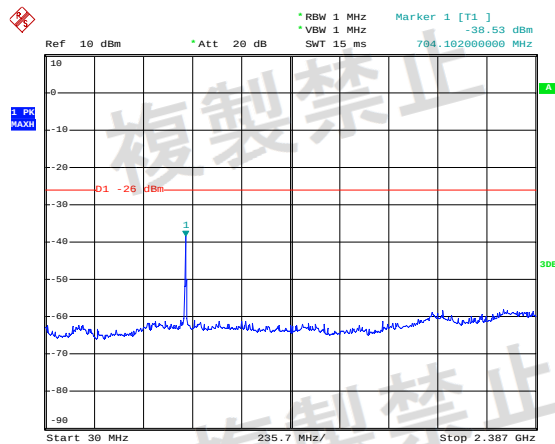
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11b	2442	30-2387	704.102000	-38.53	0.14028	2.5	Pass
NV	802.11b	2442	2387-2400	2397.50400	-55.77	0.00265	25	Pass
NV	802.11b	2442	2483.5-2496.5	2488.80400	-53.78	0.00419	25	Pass
NV	802.11b	2442	2496.5-12500	4877.33300	-50.86	0.00820	2.5	Pass

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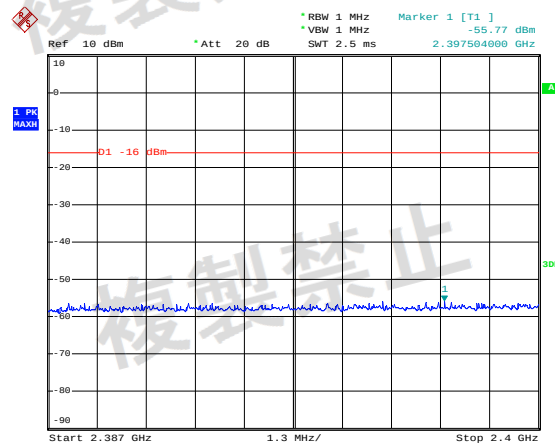
Test Figure:

2442MHz (30 MHz $\leq f \leq$ 2387 MHz)



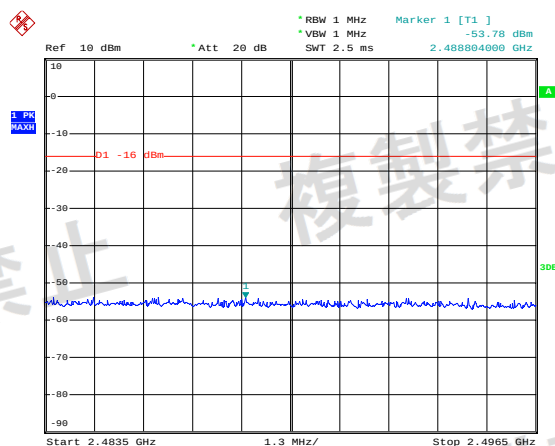
Date: 29.NOV.2025 13:09:44

2442MHz (2387 MHz < f ≤ 2400 MHz)



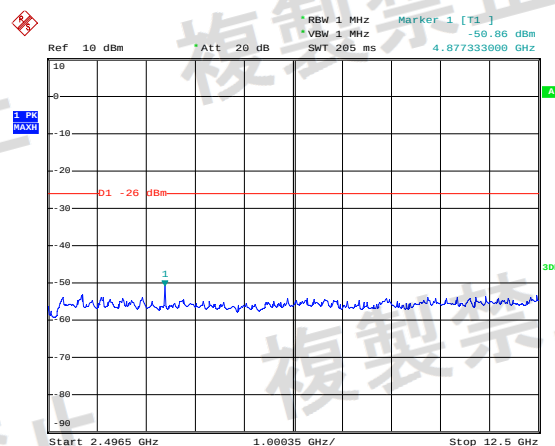
Date: 29.NOV.2025 13:52:12

2442MHz (2483.5 MHz < f ≤ 2496.5 MHz)



Date: 29.NOV.2025 14:36:38

2442MHz (2496.5 MHz ≤ f < 12.5GHz)



Date: 29.NOV.2025 16:27:13

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EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11b 2472MHz		

Test Data:

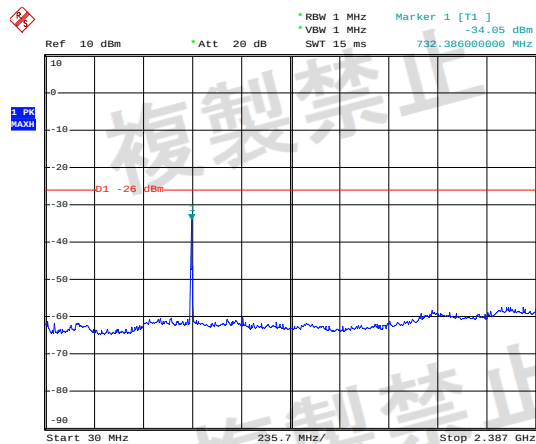
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11b	2472	30-2387	732.386000	-34.05	0.39355	2.5	Pass
NV	802.11b	2472	2387-2400	2398.54400	-56.54	0.00222	25	Pass
NV	802.11b	2472	2483.5-2496.5	2483.50000	-44.76	0.03342	25	Pass
NV	802.11b	2472	2496.5-12500	4937.35400	-50.14	0.00968	2.5	Pass

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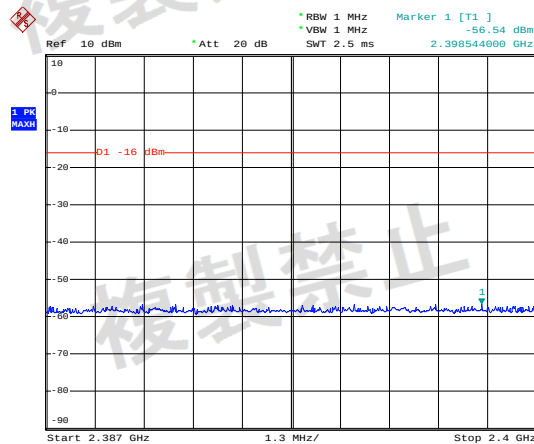
Test Figure:

2472MHz (30 MHz $\leq f \leq$ 2387 MHz)



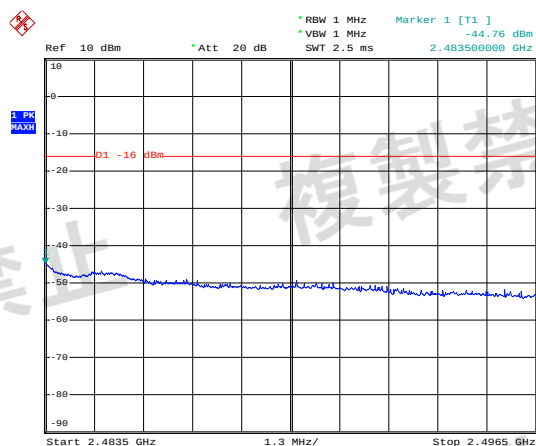
Date: 29.NOV.2025 13:17:23

2472MHz (2387 MHz < f ≤ 2400 MHz)



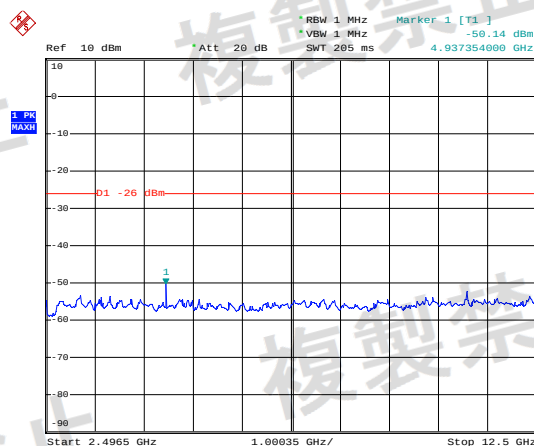
Date: 29.NOV.2025 13:46:54

2472MHz (2483.5 MHz < f ≤ 2496.5 MHz)



Date: 29.NOV.2025 15:42:45

2472MHz (2496.5 MHz ≤ f < 12.5GHz)



Date: 29.NOV.2025 16:32:40

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EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11g 2412MHz		

Test Data:

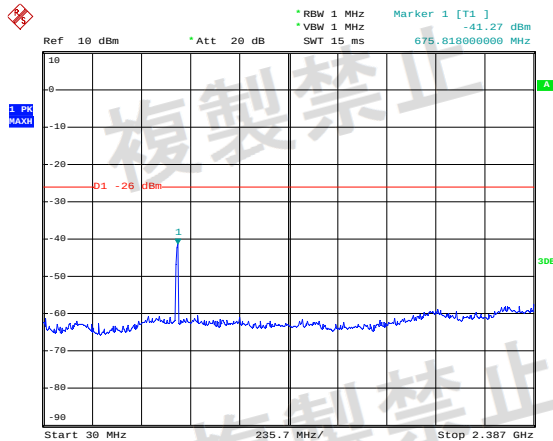
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11g	2412	30-2387	675.818000	-41.27	0.07464	2.5	Pass
NV	802.11g	2412	2387-2400	2398.75200	-46.24	0.02377	25	Pass
NV	802.11g	2412	2483.5-2496.5	2491.92400	-54.26	0.00375	25	Pass
NV	802.11g	2412	2496.5-12500	4817.31200	-49.30	0.01175	2.5	Pass

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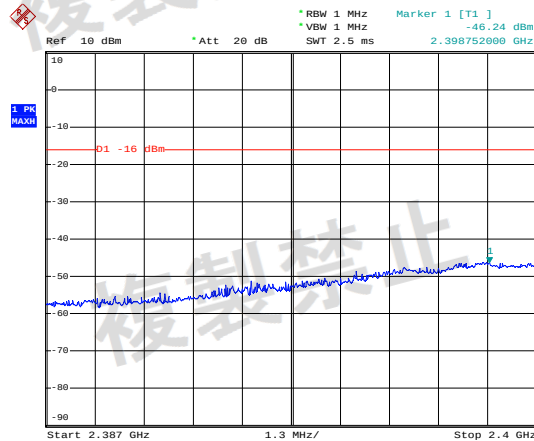
Test Figure:

2412MHz ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)



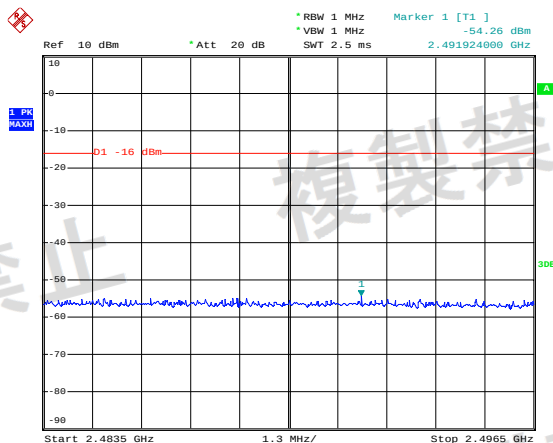
Date: 29.NOV.2025 12:52:52

2412MHz ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)



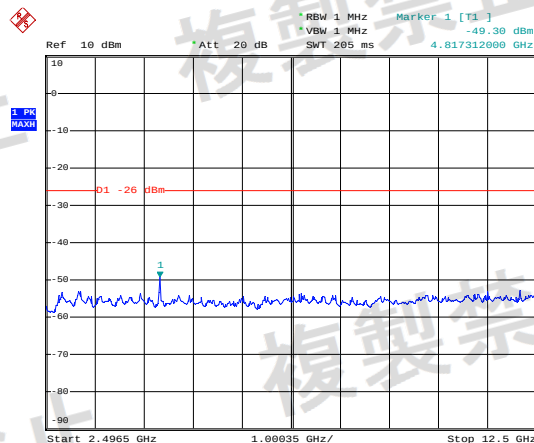
Date: 29.NOV.2025 14:22:03

2412MHz ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)



Date: 29.NOV.2025 14:29:36

2412MHz ($2496.5 \text{ MHz} \leq f < 12.5 \text{ GHz}$)



Date: 29.NOV.2025 16:19:46

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EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11g 2442MHz		

Test Data:

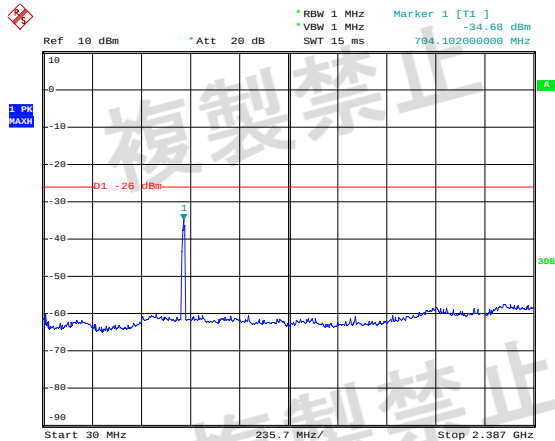
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11g	2442	30-2387	704.102000	-34.68	0.34041	2.5	Pass
NV	802.11g	2442	2387-2400	2399.55800	-54.75	0.00335	25	Pass
NV	802.11g	2442	2483.5-2496.5	2487.89400	-53.15	0.00484	25	Pass
NV	802.11g	2442	2496.5-12500	4877.33300	-50.66	0.00859	2.5	Pass

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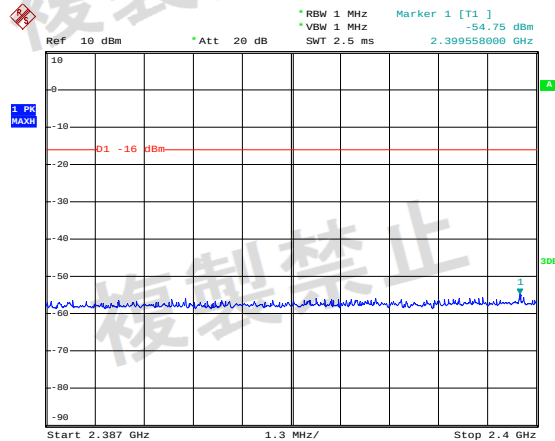
Test Figure:

2442MHz ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)



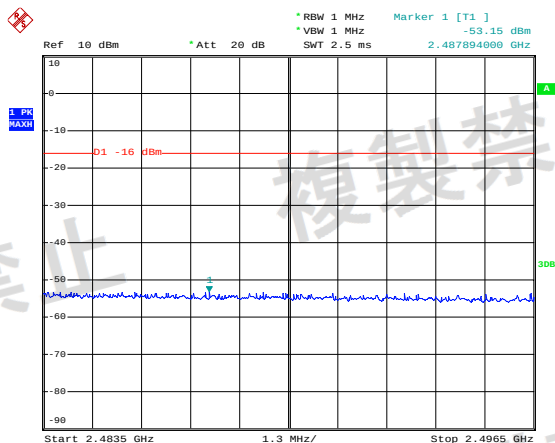
Date: 29.NOV.2025 13:08:41

2442MHz ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)



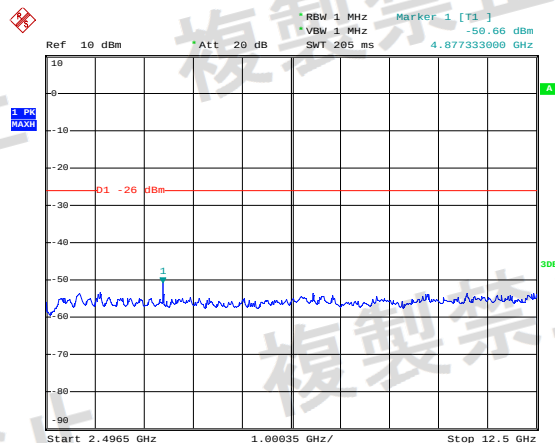
Date: 29.NOV.2025 13:55:57

2442MHz ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)



Date: 29.NOV.2025 14:41:56

2442MHz ($2496.5 \text{ MHz} \leq f < 12.5 \text{ GHz}$)



Date: 29.NOV.2025 16:24:29

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EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11g 2472MHz		

Test Data:

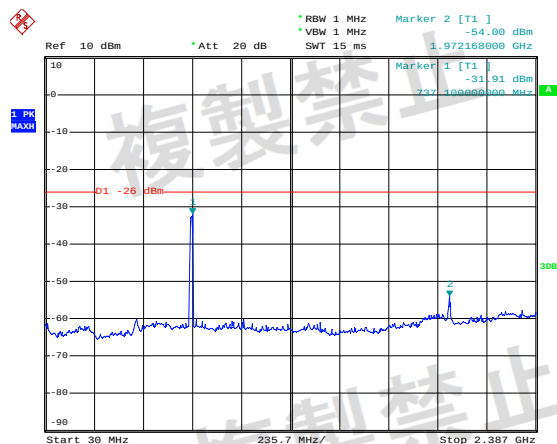
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μ W/MHz)	Limit	P/F
NV	802.11g	2472	30-2387	1972.16800	-54.00	0.00398	2.5	Pass
NV	802.11g	2472	30-2387	737.100000	-31.91	0.64417	2.5	Pass
NV	802.11g	2472	2387-2400	2397.11400	-56.99	0.00200	25	Pass
NV	802.11g	2472	2483.5-2496.5	2483.50000	-35.35	0.29174	25	Pass
NV	802.11g	2472	2496.5-12500	4937.35400	-50.35	0.00923	2.5	Pass

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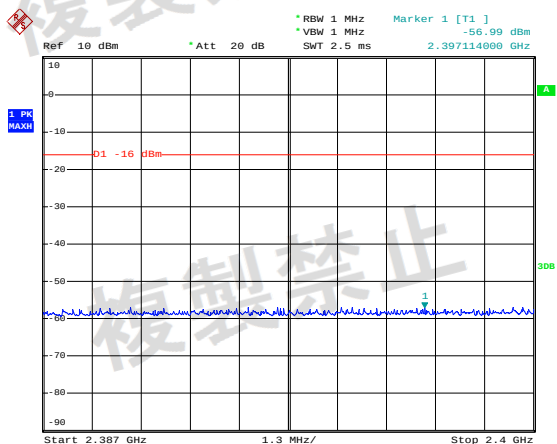
Test Figure:

2472MHz (30 MHz $\leq f \leq$ 2387 MHz)



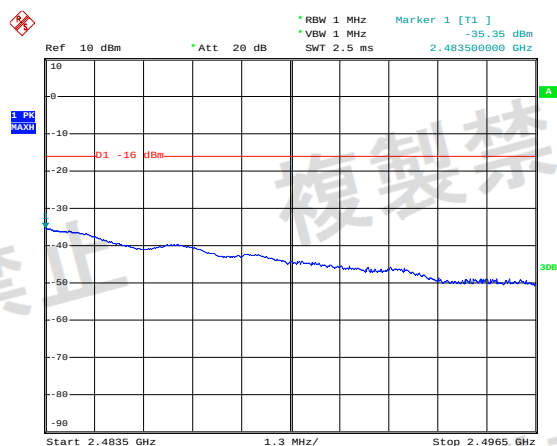
Date: 29.NOV.2025 13:19:42

2472MHz (2387 MHz < f ≤ 2400 MHz)



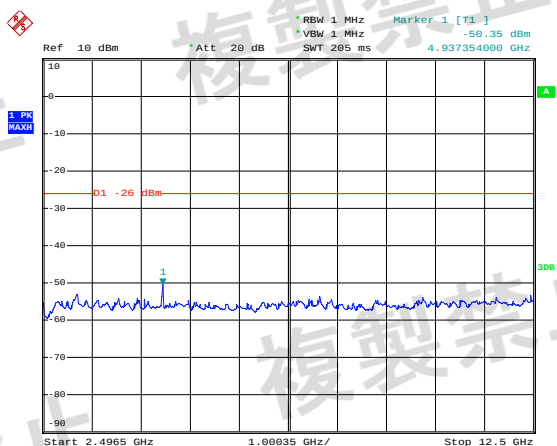
Date: 29.NOV.2025 13:43:01

2472MHz (2483.5 MHz < f ≤ 2496.5 MHz)



Date: 29.NOV.2025 15:36:57

2472MHz (2496.5 MHz ≤ f < 12.5GHz)



Date: 29.NOV.2025 16:34:58

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EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11n HT20 2412MHz		

Test Data:

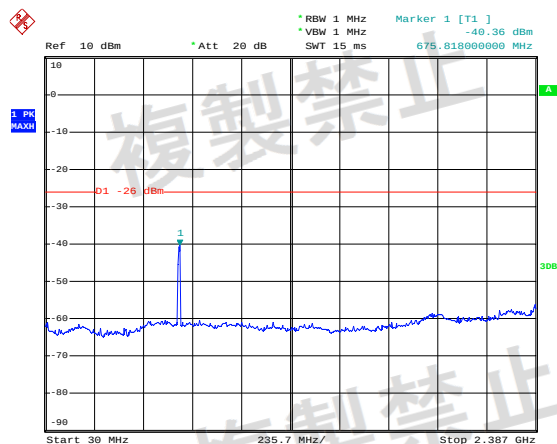
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11n HT20	2412	30-2387	675.818000	-40.36	0.09204	2.5	Pass
NV	802.11n HT20	2412	2387-2400	2399.97400	-41.03	0.07889	25	Pass
NV	802.11n HT20	2412	2483.5-2496.5	2492.28800	-57.66	0.00171	25	Pass
NV	802.11n HT20	2412	2496.5-12500	4817.31200	-51.64	0.00685	2.5	Pass

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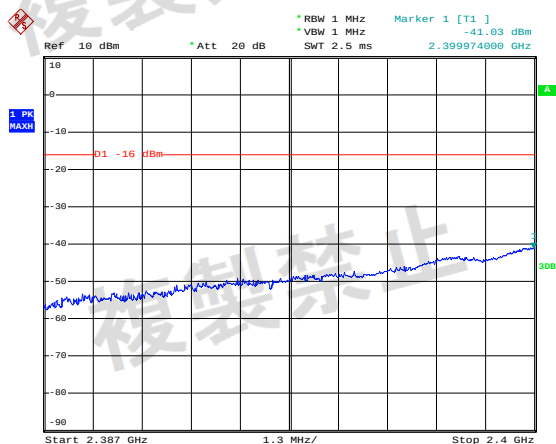
Test Figure:

2412MHz (30 MHz $\leq f \leq$ 2387 MHz)



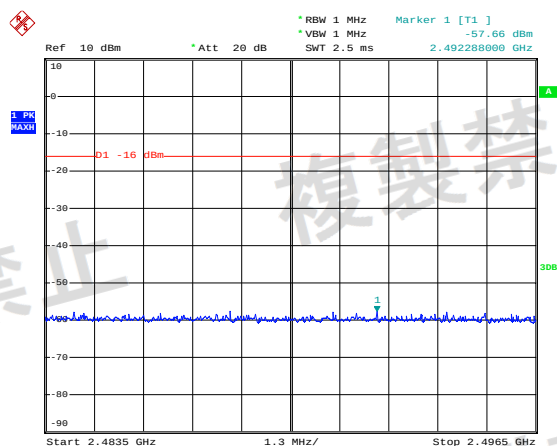
Date: 29.NOV.2025 12:57:33

2412MHz (2387 MHz < f ≤ 2400 MHz)



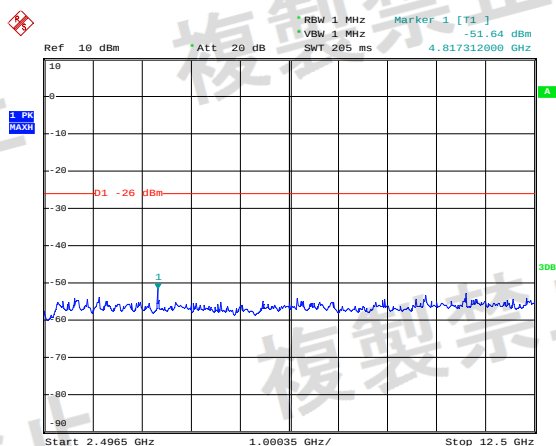
Date: 29.NOV.2025 14:24:24

2412MHz (2483.5 MHz < f ≤ 2496.5 MHz)



Date: 29.NOV.2025 14:28:23

2412MHz (2496.5 MHz ≤ f < 12.5GHz)



Date: 29.NOV.2025 16:20:27

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EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11n HT20 2442MHz		

Test Data:

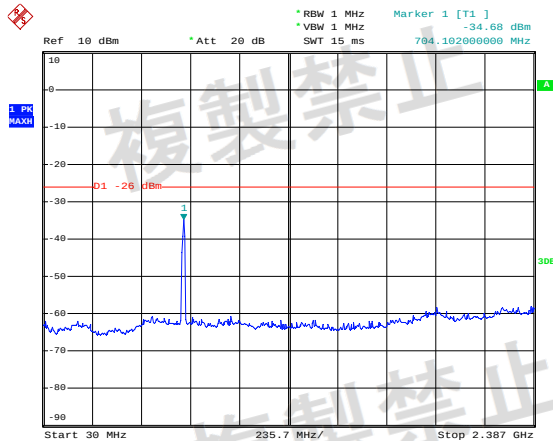
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11n HT20	2442	30-2387	704.102000	-34.68	0.34041	2.5	Pass
NV	802.11n HT20	2442	2387-2400	2395.06000	-55.62	0.00274	25	Pass
NV	802.11n HT20	2442	2483.5-2496.5	2484.12400	-53.04	0.00497	25	Pass
NV	802.11n HT20	2442	2496.5-12500	4877.33300	-51.53	0.00703	2.5	Pass

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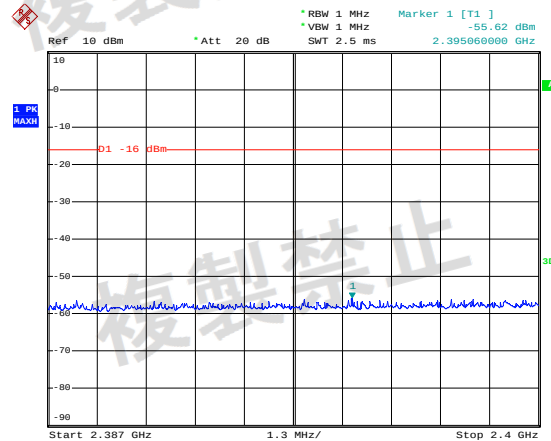
Test Figure:

2442MHz ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)



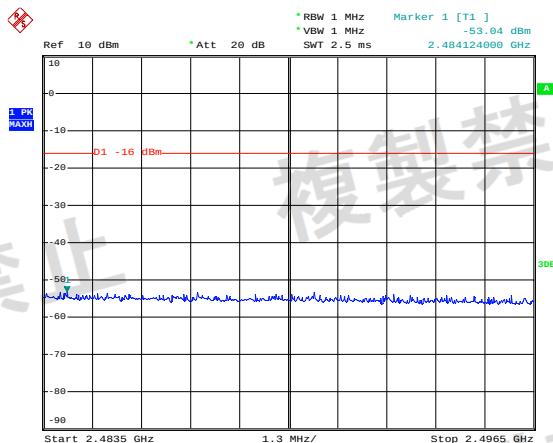
Date: 29.NOV.2025 13:02:22

2442MHz ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)



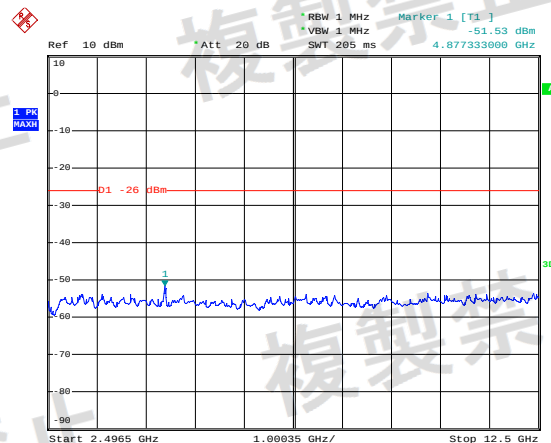
Date: 29.NOV.2025 13:57:45

2442MHz ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)



Date: 29.NOV.2025 14:43:35

2442MHz ($2496.5 \text{ MHz} \leq f < 12.5 \text{ GHz}$)



Date: 29.NOV.2025 16:22:32

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EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11n HT20 2472MHz		

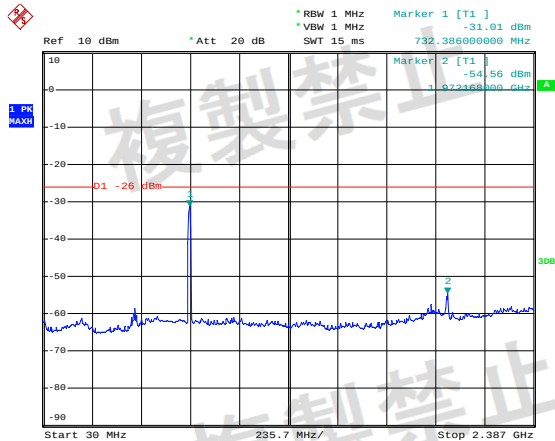
Test Data:

Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11n HT20	2472	30-2387	732.386000	-31.01	0.79250	2.5	Pass
NV	802.11n HT20	2472	30-2387	1972.16800	-54.56	0.00350	2.5	Pass
NV	802.11n HT20	2472	2387-2400	2392.04400	-56.62	0.00218	25	Pass
NV	802.11n HT20	2472	2483.5-2496.5	2483.50000	-33.04	0.49659	25	Pass
NV	802.11n HT20	2472	2496.5-12500	2496.50000	-49.25	0.01189	2.5	Pass

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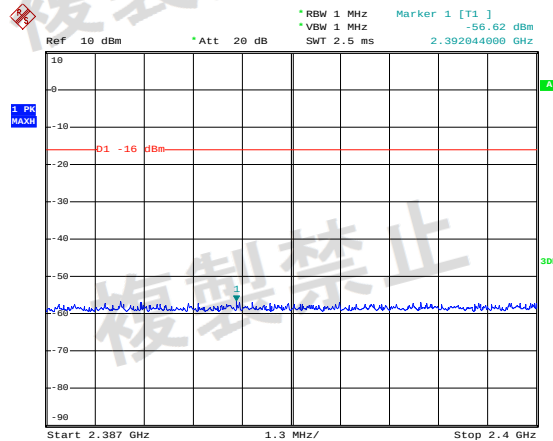


Test Figure:

2472MHz (30 MHz $\leq f \leq$ 2387 MHz)

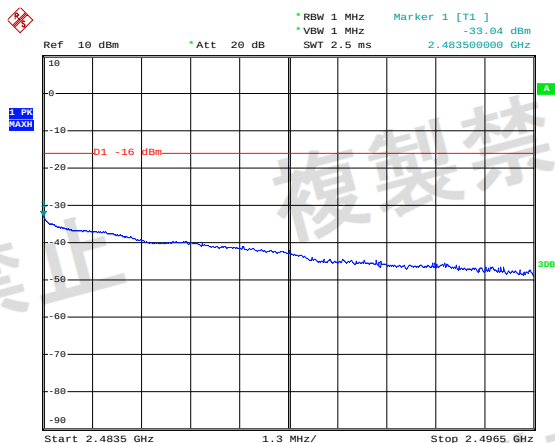
Date: 29.NOV.2025 13:25:13

2472MHz (2387 MHz < f ≤ 2400 MHz)



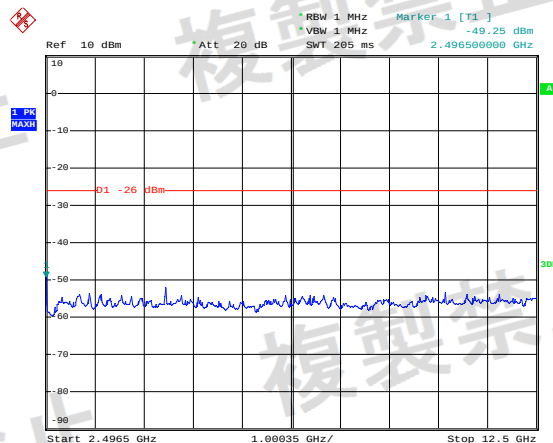
Date: 29.NOV.2025 13:44:13

2472MHz (2483.5 MHz < f ≤ 2496.5 MHz)



Date: 29.NOV.2025 14:49:46

2472MHz (2496.5 MHz ≤ f < 12.5GHz)



Date: 29.NOV.2025 16:36:02

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EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11n HT40 2422MHz		

Test Data:

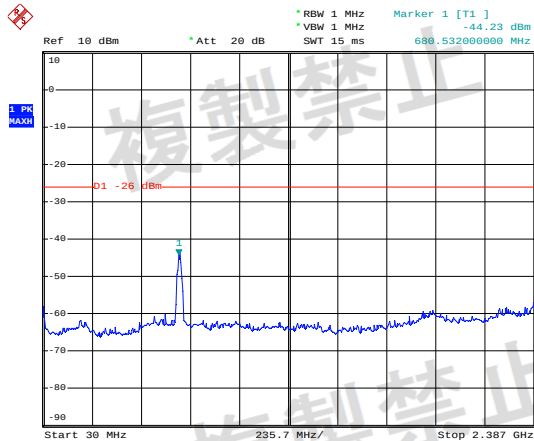
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11n HT40	2422	30-2387	680.532000	-44.23	0.03776	2.5	Pass
NV	802.11n HT40	2422	2387-2400	2398.96000	-48.67	0.01358	25	Pass
NV	802.11n HT40	2422	2483.5-2496.5	2486.77600	-53.14	0.00485	25	Pass
NV	802.11n HT40	2422	2496.5-12500	3176.73800	-52.61	0.00548	2.5	Pass

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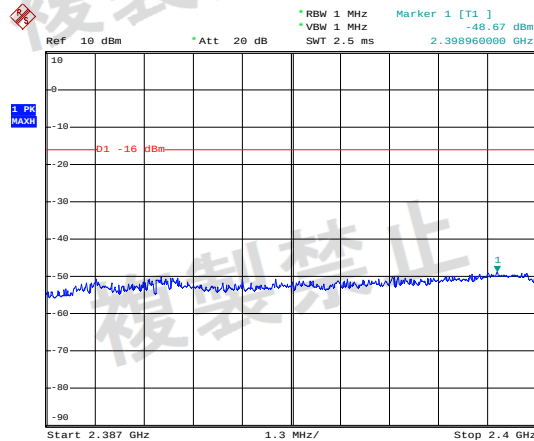
Test Figure:

2422MHz ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)



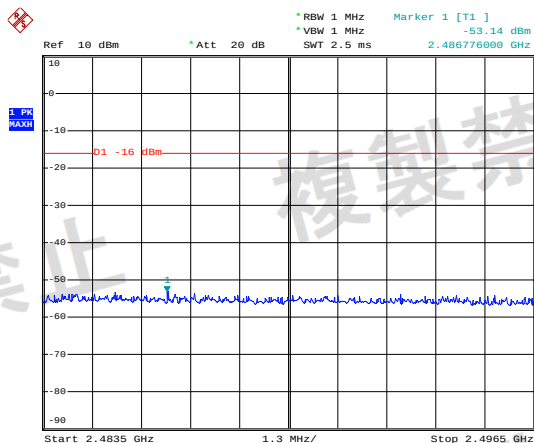
Date: 29.NOV.2025 14:07:48

2422MHz ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)



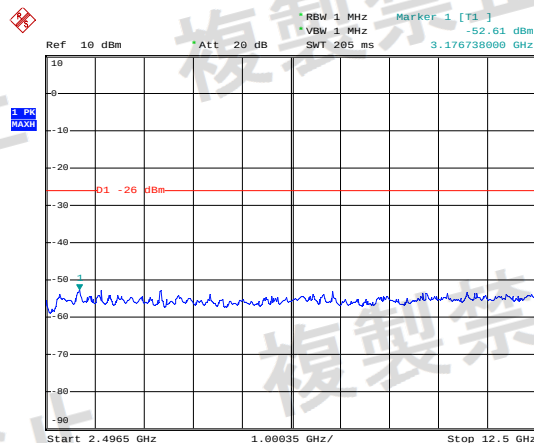
Date: 29.NOV.2025 14:07:16

2422MHz ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)



Date: 29.NOV.2025 15:47:33

2422MHz ($2496.5 \text{ MHz} \leq f < 12.5 \text{ GHz}$)



Date: 29.NOV.2025 16:07:50

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EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11n HT40 2442MHz		

Test Data:

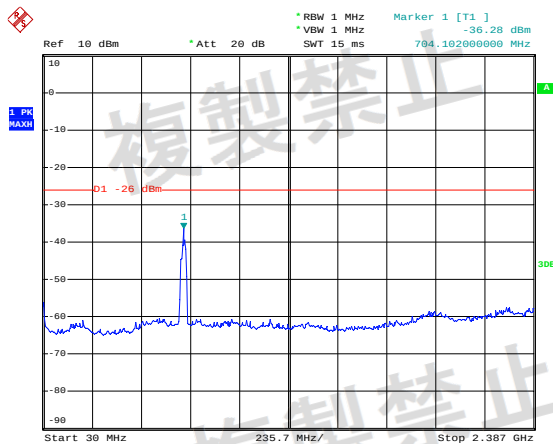
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11n HT40	2442	30-2387	704.102000	-36.28	0.23550	2.5	Pass
NV	802.11n HT40	2442	2387-2400	2397.63400	-55.22	0.00301	25	Pass
NV	802.11n HT40	2442	2483.5-2496.5	2485.03400	-48.13	0.01538	25	Pass
NV	802.11n HT40	2442	2496.5-12500	3356.80100	-53.28	0.00470	2.5	Pass

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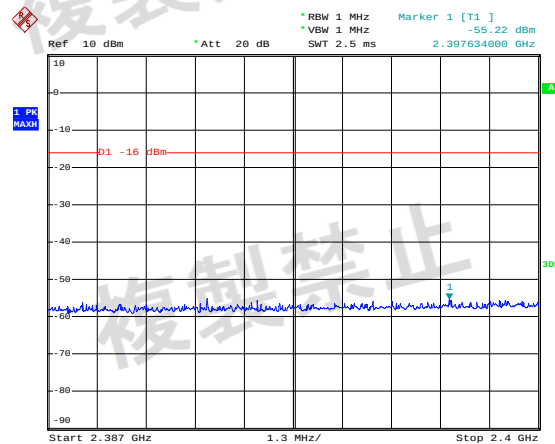
Test Figure:

2442MHz ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)



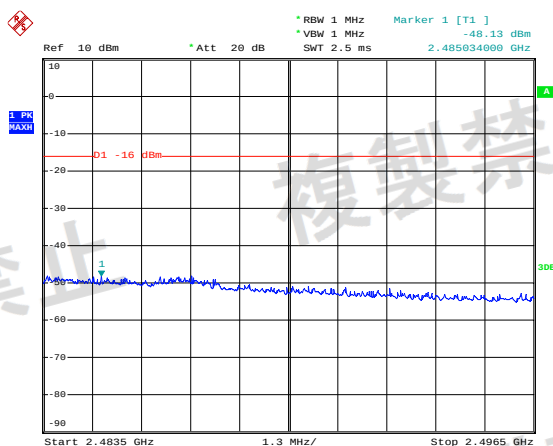
Date: 29.NOV.2025 14:14:07

2442MHz ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)



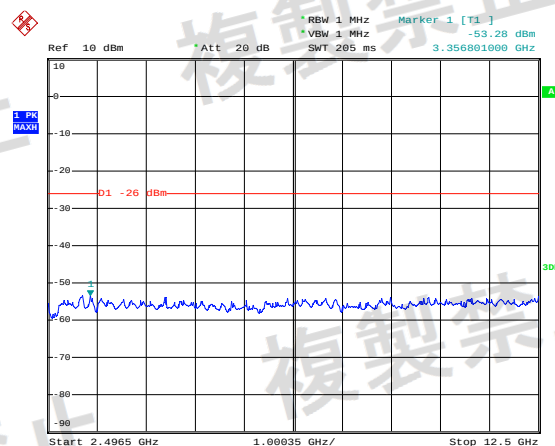
Date: 29.NOV.2025 14:06:19

2442MHz ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)



Date: 29.NOV.2025 15:51:05

2442MHz ($2496.5 \text{ MHz} \leq f < 12.5 \text{ GHz}$)



Date: 29.NOV.2025 16:02:43

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EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11n HT40 2462MHz		

Test Data:

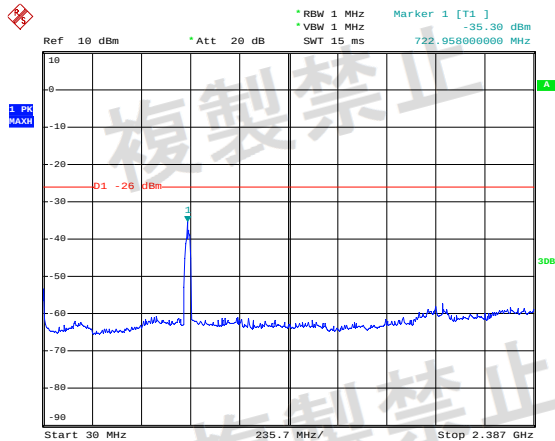
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11n HT40	2462	30-2387	722.958000	-35.30	0.29512	2.5	Pass
NV	802.11n HT40	2462	2387-2400	2394.0200	-56.26	0.00237	25	Pass
NV	802.11n HT40	2462	2483.5-2496.5	2483.50000	-40.43	0.09057	25	Pass
NV	802.11n HT40	2462	2496.5-12500	2496.50000	-47.35	0.01841	2.5	Pass

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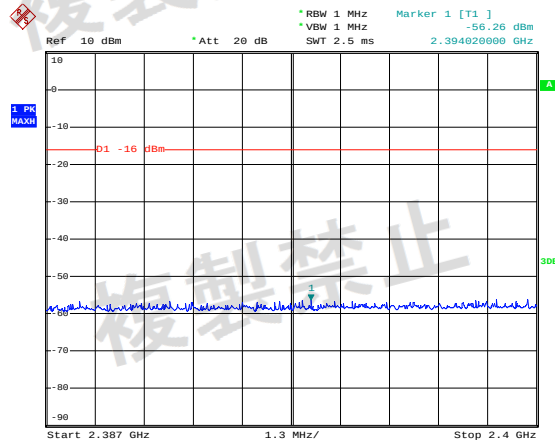
Test Figure:

2462MHz (30 MHz $\leq f \leq$ 2387 MHz)



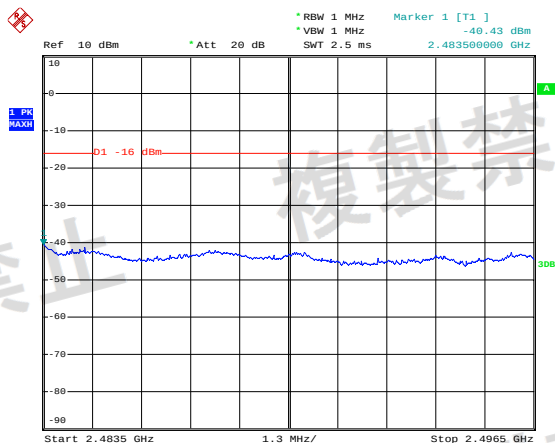
Date: 29.NOV.2025 14:15:53

2462MHz (2387 MHz < f ≤ 2400 MHz)



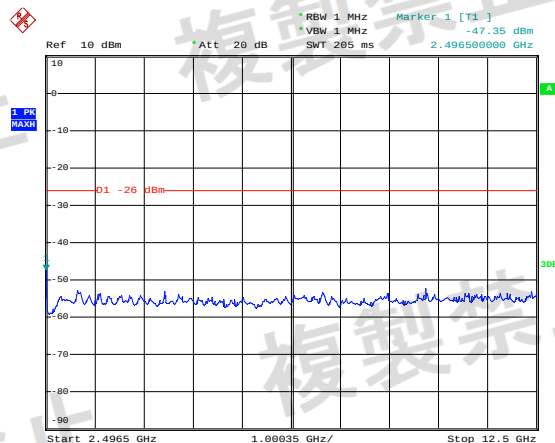
Date: 29.NOV.2025 14:04:52

2462MHz (2483.5 MHz < f ≤ 2496.5 MHz)



Date: 29.NOV.2025 15:56:01

2462MHz (2496.5 MHz ≤ f < 12.5GHz)



Date: 29.NOV.2025 16:00:28

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EUT:	Monitor	Test Date:	December 12, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11ax HEW20 2412MHz		

Test Data:

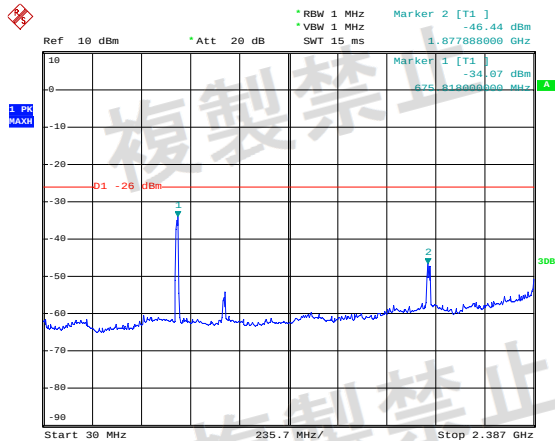
Test Data of Unwanted Emissions Strength								
Volage	Mode	Chann el	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11ax HEW20	2412	30-2387	1877.88800	-46.44	0.02270	2.5	Pass
NV	802.11ax HEW20	2412	30-2387	675.818000	-34.07	0.39174	2.5	Pass
NV	802.11ax HEW20	2412	2387-2400	2399.89600	-38.50	0.14125	25	Pass
NV	802.11ax HEW20	2412	2483.5-2496.5	2492.28800	-53.03	0.00498	25	Pass
NV	802.11ax HEW20	2412	2496.5-12500	4817.31200	-50.06	0.00986	2.5	Pass

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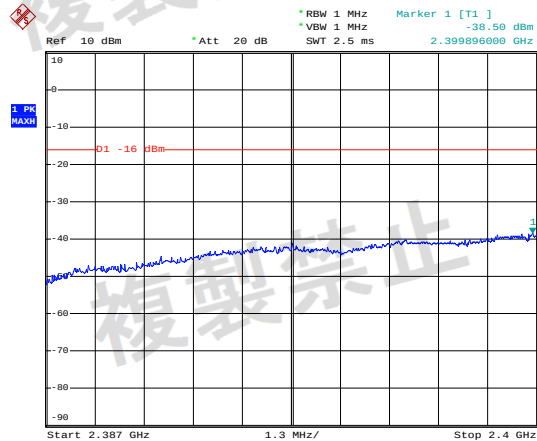
Test Figure:

2412MHz (30 MHz $\leq f \leq$ 2387 MHz)



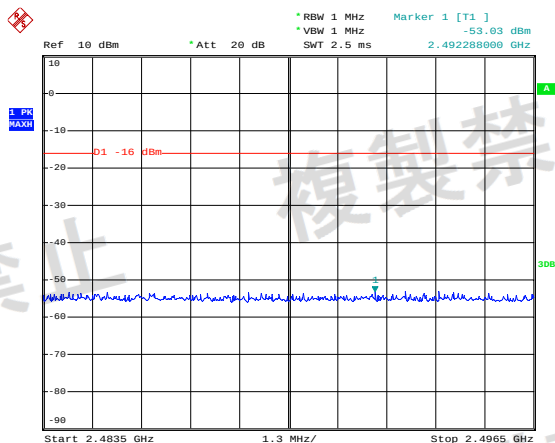
Date: 12.DEC.2025 13:09:11

2412MHz (2387 MHz < f ≤ 2400 MHz)



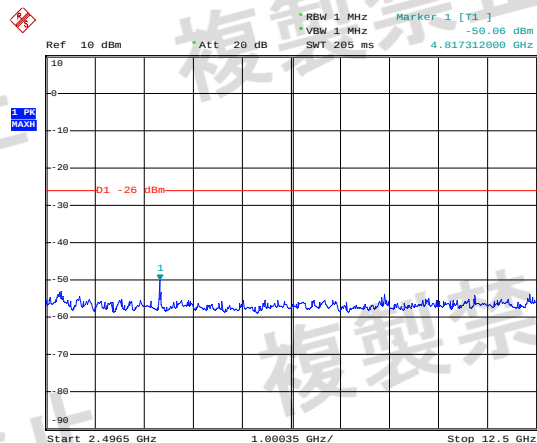
Date: 12.DEC.2025 13:19:40

2412MHz (2483.5 MHz < f ≤ 2496.5 MHz)



Date: 12.DEC.2025 13:30:47

2412MHz (2496.5 MHz ≤ f < 12.5GHz)



Date: 12.DEC.2025 13:42:08

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EUT:	Monitor	Test Date:	December 12, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11ax HEW20 2442MHz		

Test Data:

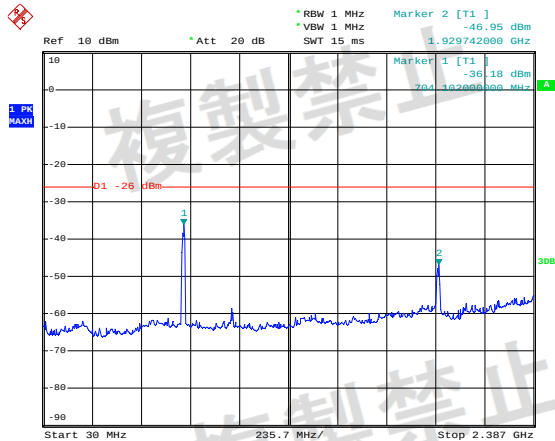
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11ax HEW20	2442	30-2387	1929.74200	-46.95		2.5	Pass
NV	802.11ax HEW20	2442	30-2387	704.102000	-36.18		2.5	Pass
NV	802.11ax HEW20	2442	2387-2400	2398.67400	-52.97		25	Pass
NV	802.11ax HEW20	2442	2483.5-2496.5	2487.08800	-52.01		25	Pass
NV	802.11ax HEW20	2442	2496.5-12500	2736.58400	-52.64		2.5	Pass

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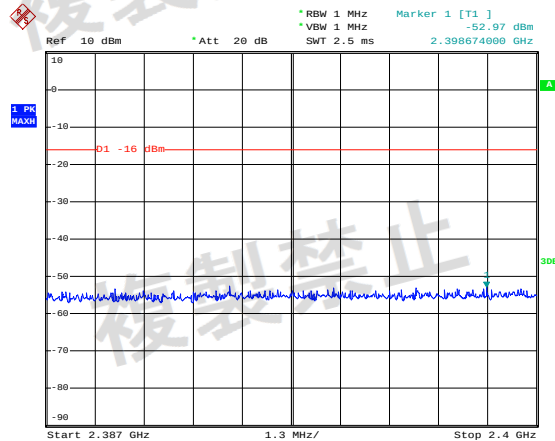
Test Figure:

2442MHz ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)



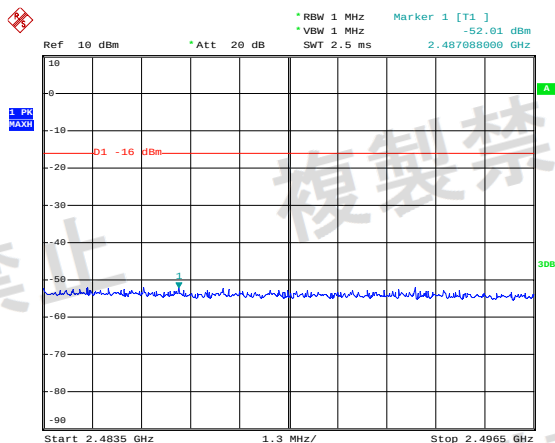
Date: 12.DEC.2025 13:05:49

2442MHz ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)



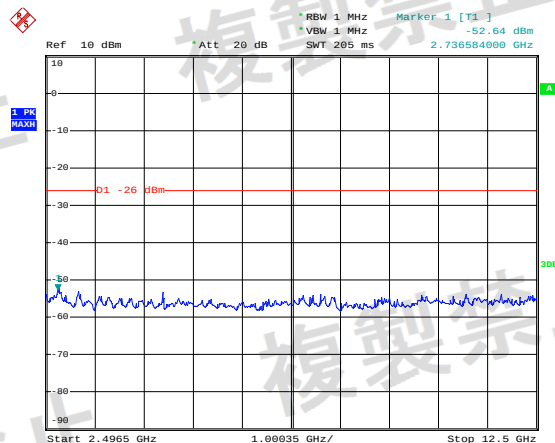
Date: 12.DEC.2025 13:20:22

2442MHz ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)



Date: 12.DEC.2025 13:29:42

2442MHz ($2496.5 \text{ MHz} \leq f < 12.5 \text{ GHz}$)



Date: 12.DEC.2025 13:43:42

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EUT:	Monitor	Test Date:	December 12, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11ax HEW20 2472MHz		

Test Data:

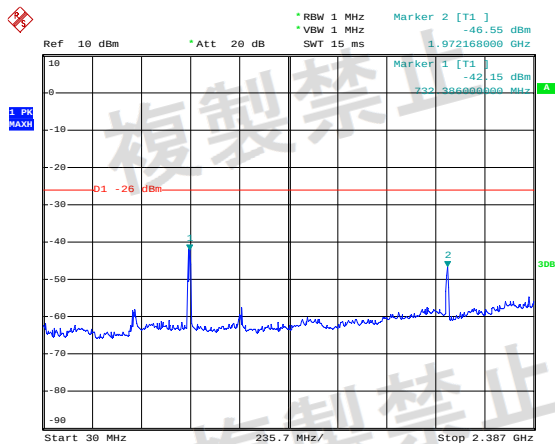
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11ax HEW20	2472	30-2387	1972.16800	-46.55	0.02213	2.5	Pass
NV	802.11ax HEW20	2472	30-2387	732.386000	-42.15	0.06095	2.5	Pass
NV	802.11ax HEW20	2472	2387-2400	2392.27800	-52.96	0.00506	25	Pass
NV	802.11ax HEW20	2472	2483.5-2496.5	2483.50000	-26.93	2.02768	25	Pass
NV	802.11ax HEW20	2472	2496.5-12500	2496.50000	-52.16	0.00608	2.5	Pass

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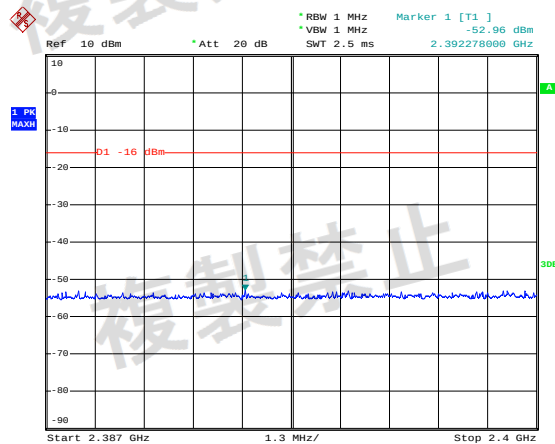
Test Figure:

2472MHz (30 MHz $\leq f \leq$ 2387 MHz)



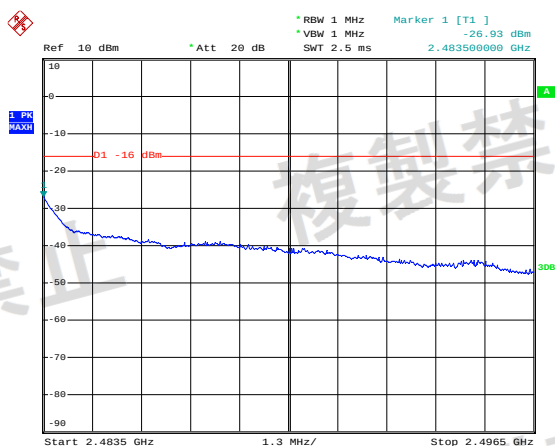
Date: 12.DEC.2025 13:00:09

2472MHz (2387 MHz < f ≤ 2400 MHz)



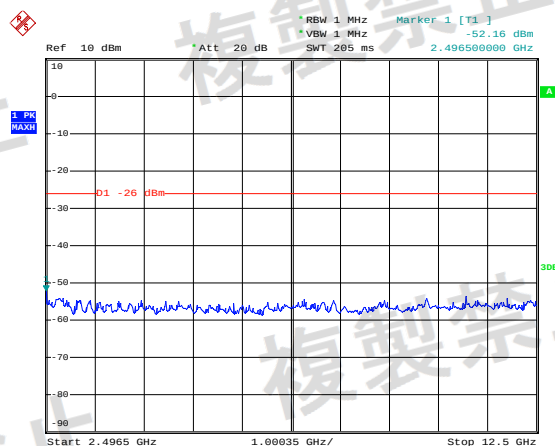
Date: 12.DEC.2025 13:24:49

2472MHz (2483.5 MHz < f ≤ 2496.5 MHz)



Date: 12.DEC.2025 13:27:44

2472MHz (2496.5 MHz ≤ f < 12.5GHz)



Date: 12.DEC.2025 13:44:17

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EUT:	Monitor	Test Date:	December 12, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11ax HEW40 2422MHz		

Test Data:

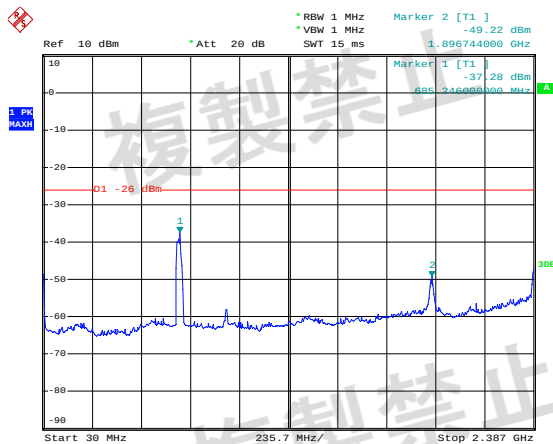
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11ax HEW40	2422	30-2387	1896.74400	-49.22	0.01197	2.5	Pass
NV	802.11ax HEW40	2422	30-2387	685.246000	-37.28	0.18707	2.5	Pass
NV	802.11ax HEW40	2422	2387-2400	2399.42800	-40.67	0.08570	25	Pass
NV	802.11ax HEW40	2422	2483.5-2496.5	2487.58200	-52.01	0.00630	25	Pass
NV	802.11ax HEW40	2422	2496.5-12500	2736.58400	-53.38	0.00459	2.5	Pass

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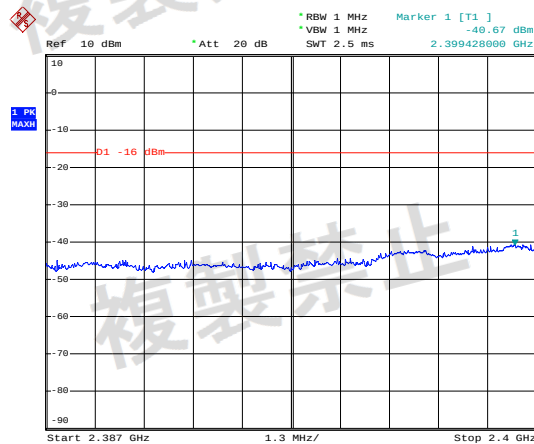
Test Figure:

2422MHz (30 MHz $\leq f \leq$ 2387 MHz)



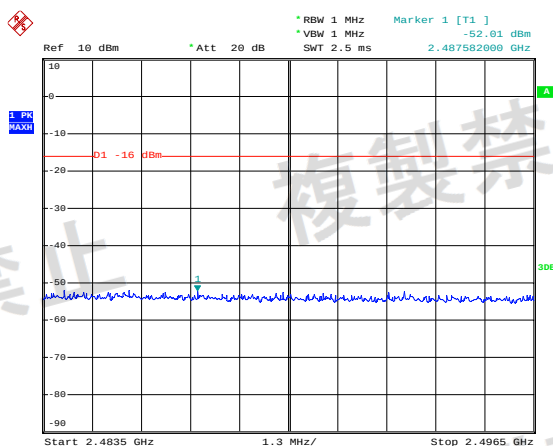
Date: 12.DEC.2025 13:11:29

2422MHz (2387 MHz < f ≤ 2400 MHz)



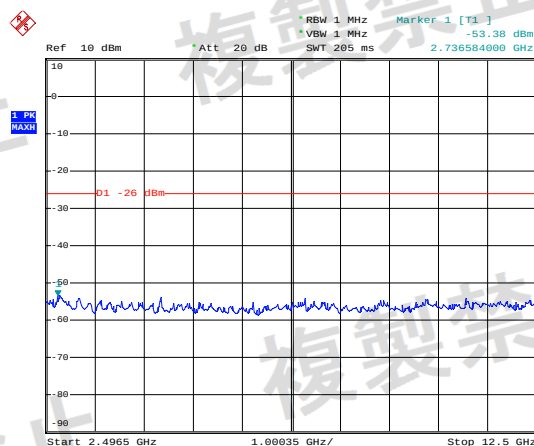
Date: 12.DEC.2025 13:18:06

2422MHz (2483.5 MHz < f ≤ 2496.5 MHz)



Date: 12.DEC.2025 13:33:56

2422MHz (2496.5 MHz ≤ f < 12.5GHz)



Date: 12.DEC.2025 13:41:32

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EUT:	Monitor	Test Date:	December 12, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting 802.11ax HEW40 2442MHz		

Test Data:

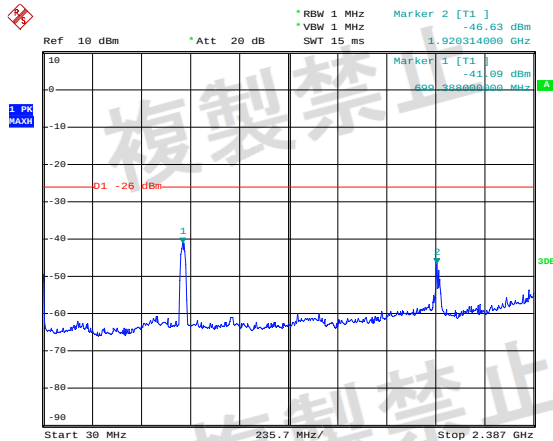
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11ax HEW40	2442	30-2387	1920.31400	-46.63	0.02173	2.5	Pass
NV	802.11ax HEW40	2442	30-2387	699.388000	-41.09	0.07780	2.5	Pass
NV	802.11ax HEW40	2442	2387-2400	2399.81800	-45.78	0.02642	25	Pass
NV	802.11ax HEW40	2442	2483.5-2496.5	2485.86600	-47.45	0.01799	25	Pass
NV	802.11ax HEW40	2442	2496.5-12500	2796.60500	-53.09	0.00491	2.5	Pass

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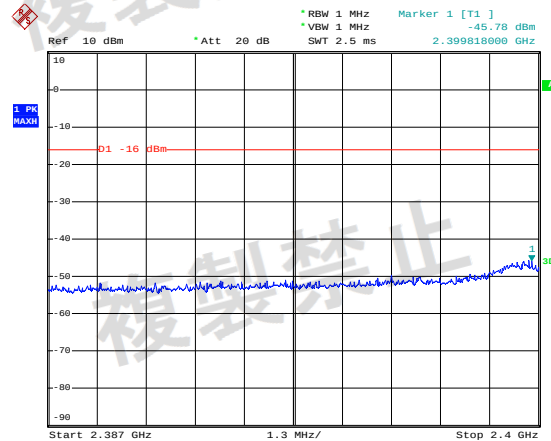
Test Figure:

2442MHz (30 MHz $\leq f \leq$ 2387 MHz)



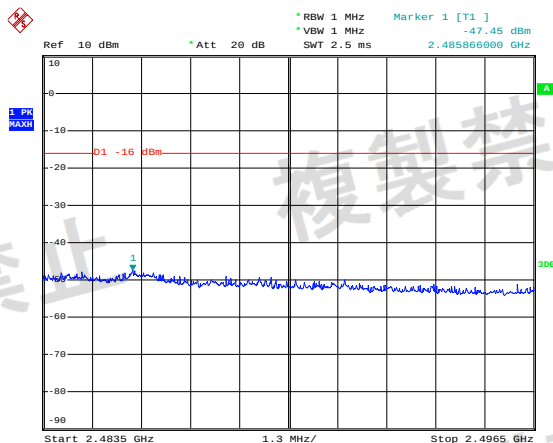
Date: 12.DEC.2025 13:12:12

2442MHz (2387 MHz < f ≤ 2400 MHz)



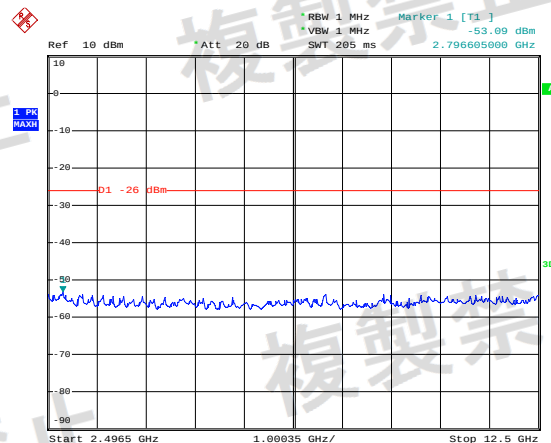
Date: 12.DEC.2025 13:16:34

2442MHz (2483.5 MHz < f ≤ 2496.5 MHz)



Date: 12.DEC.2025 13:36:38

2442MHz (2496.5 MHz ≤ f < 12.5GHz)



Date: 12.DEC.2025 13:40:48

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EUT:	Monitor	Test Date:	December 12, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Keep Transmitting at 802.11ax HEW40 2462MHz		

Test Data:

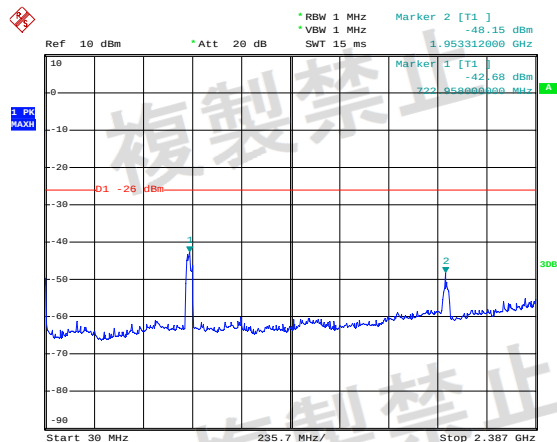
Test Data of Unwanted Emissions Strength								
Volage	Mode	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	802.11ax HEW40	2462	30-2387	1953.31200	-48.15	0.01531	2.5	Pass
NV	802.11ax HEW40	2462	30-2387	722.958000	-42.68	0.05395	2.5	Pass
NV	802.11ax HEW40	2462	2387-2400	2388.09200	-52.55	0.00556	25	Pass
NV	802.11ax HEW40	2462	2483.5-2496.5	2483.50000	-33.15	0.48417	25	Pass
NV	802.11ax HEW40	2462	2496.5-12500	5197.44500	-54.66	0.00342	2.5	Pass
NV	802.11ax HEW40	2462	2496.5-12500	2496.5000	-44.55	0.03508	2.5	Pass

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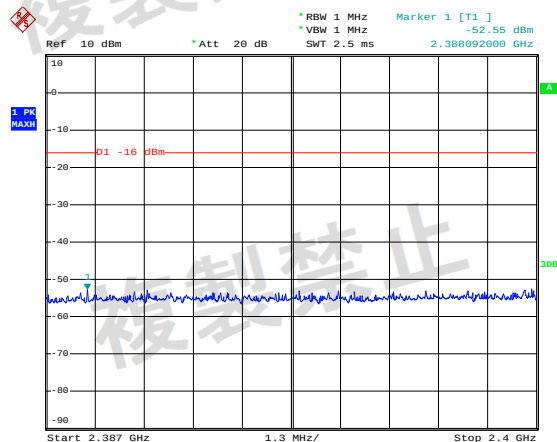
Test Figure:

2462MHz ($30 \text{ MHz} \leq f \leq 2387 \text{ MHz}$)



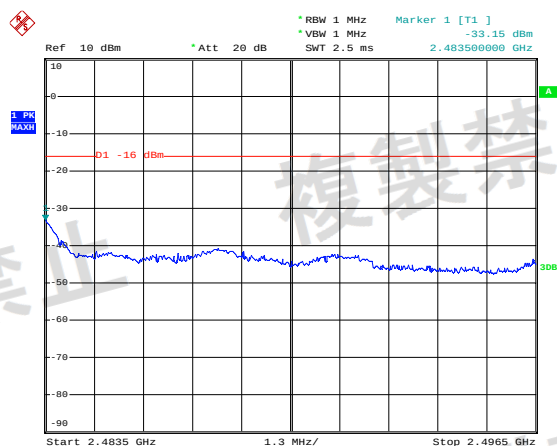
Date: 12.DEC.2025 13:12:50

2462MHz ($2387 \text{ MHz} < f \leq 2400 \text{ MHz}$)



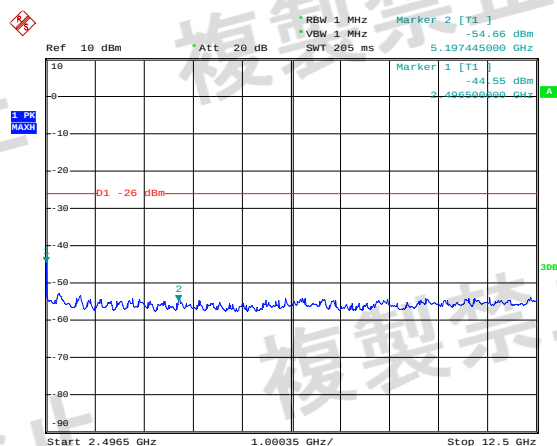
Date: 12.DEC.2025 13:13:47

2462MHz ($2483.5 \text{ MHz} < f \leq 2496.5 \text{ MHz}$)



Date: 12.DEC.2025 13:37:43

2462MHz ($2496.5 \text{ MHz} \leq f < 12.5 \text{ GHz}$)



Date: 12.DEC.2025 13:39:38

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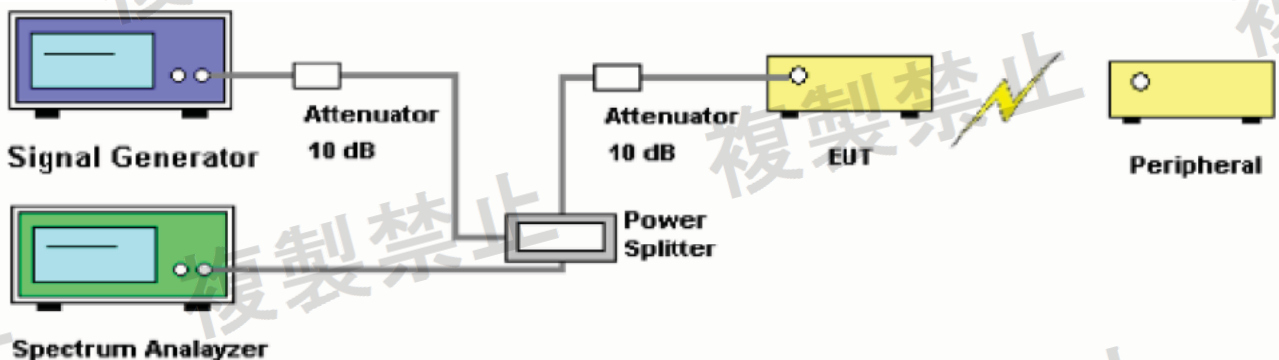


11. Carrier Sense Capability

Limit

EUT stop RF transmission signal after carrier inject to EUT and continue to transmit when inference signal turned off for the OFDM system with occupied frequency bandwidth below 38MHz and exceed 26MHz.

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 Result

Compliant

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12. Interference prevention function

Radio interface prevention function

	Normal voltage	Low voltage	High voltage
Result	Good	Good	Good

12.1 Limit

Item	Limits
identification Code	≥ 48 bits

Measuring ID code Software

MAC IP List: MAC Scan

12.2 Test Procedure

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

12.3 Conditions of Equipment under Test

Required normal mode of the applicable equipment (EUT)

12.4 TEST RESULTS

The radio equipment has an identification code. A verification of this code is done before a communication channel is established

Mac address: AE: D3: CB: EF: BA: FF

Result: OK

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13. Secondary Radiated Emission Strength

13.1 Limit

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

13.2 Measuring Instrument and Setting

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

14.3 Test Procedures

- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) /
AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
- SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and

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stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW

5. If power level of lower emissions are more than 1/10 of limit (0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

Note: Pre-test the EUT in all voltage mode at the 100V~, 110V~ and 90V~ and conducted to determine the worst-case mode, only the worst-case results (100V~) are recorded in this report.

The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation ($\pm 1\%$) against input voltage fluctuation ($\pm 10\%$). So, all measurements were conducted at only rated voltage 100V~.

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13.4 TEST RESULT

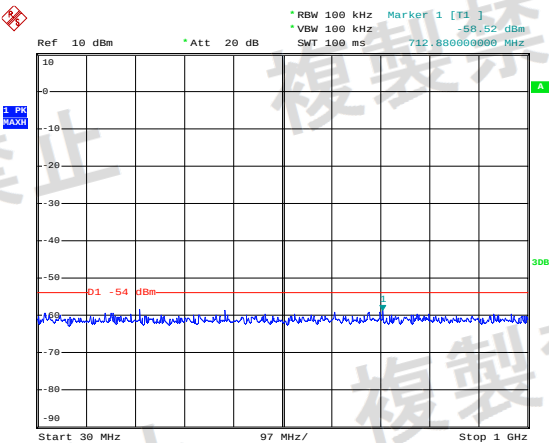
EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Receiving Mode at 2412MHz		

Test Data:

Test Data of Secondary Radiated Emission Strength							
Volage	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm)	Result (nW)	Limit	P/F
NV	2412	30-1000	712.880000	-58.52	1.4060	4nW	Pass
NV	2412	1000-12500	3208.00000	-54.40	3.6308	20nW	Pass

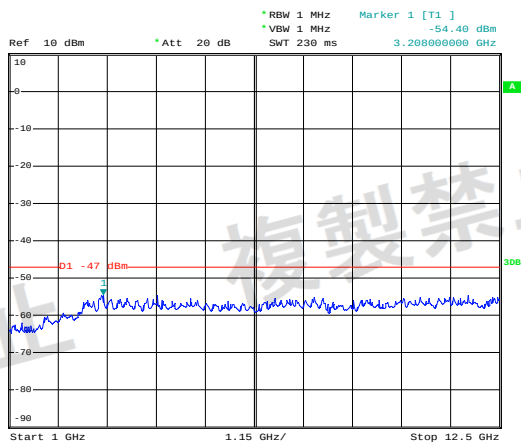
Test Figure:

2412MHz (30 MHz ≤ f < 1000 MHz)



Date: 29.NOV.2025 16:37:50

2412MHz (1000 MHz ≤ f < 12500 MHz)



Date: 29.NOV.2025 16:37:20

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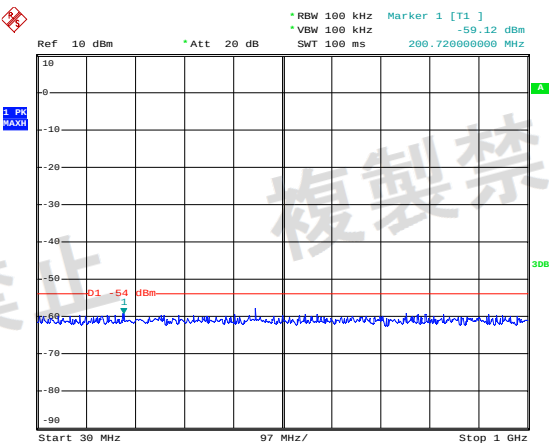
EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Receiving Mode at 2442MHz		

Test Data:

Test Data of Secondary Radiated Emission Strength							
Volage	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm)	Result (nW)	Limit	P/F
NV	2442	30-1000	200.720000	-59.12	1.2246	4nW	Pass
NV	2442	1000-12500	10246.0000	-54.12	3.8726	20nW	Pass

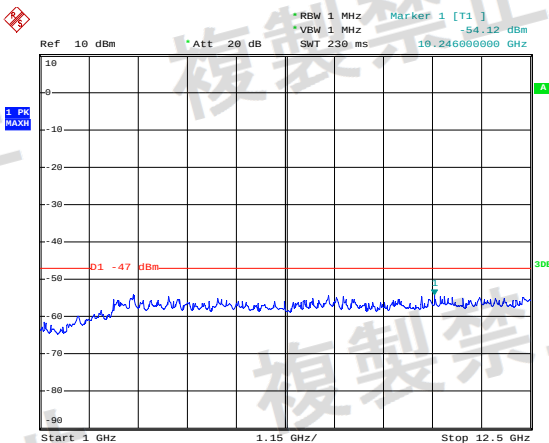
Test Figure:

2442MHz (30 MHz ≤ f < 1000 MHz)



Date: 29.NOV.2025 16:38:33

2442MHz (1000 MHz ≤ f < 12500 MHz)



Date: 29.NOV.2025 16:37:06

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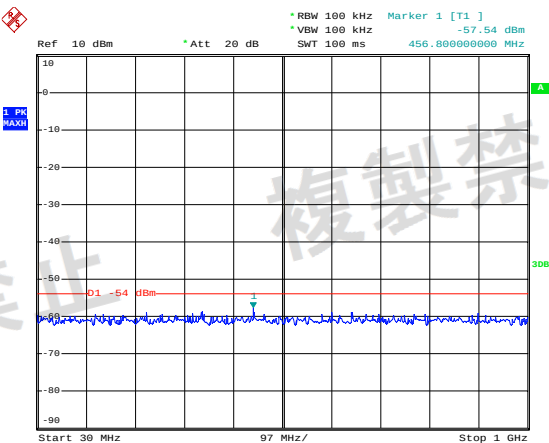
EUT:	Monitor	Test Date:	November 29, 2025
Temperature:	25°C	Tested by:	Andy
Humidity:	56 % RH	Test Voltage	100V~(Normal)
Operation Mode:	Receiving Mode at 2472MHz		

Test Data:

Test Data of Secondary Radiated Emission Strength							
Volage	Channel	Frequency Range (MHz)	Frequency (MHz)	Result (dBm)	Result (nW)	Limit	P/F
NV	2472	30-1000	456.800000	-57.54	1.7620	4nW	Pass
NV	2472	1000-12500	8130.00000	-53.77	4.1976	20nW	Pass

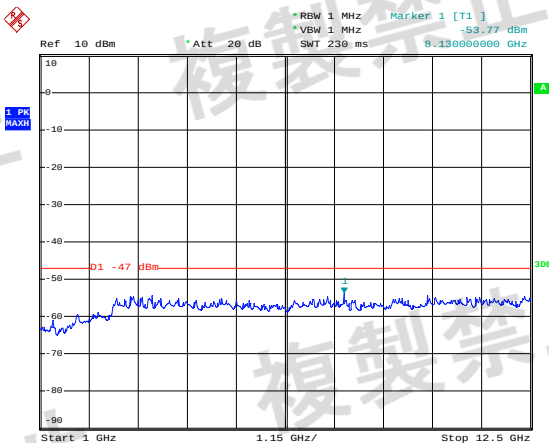
Test Figure:

2472MHz (30 MHz ≤ f < 1000 MHz)



Date: 29.NOV.2025 16:38:49

2472MHz (1000 MHz ≤ f < 12500 MHz)



Date: 29.NOV.2025 16:36:36

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Test Setup Photos



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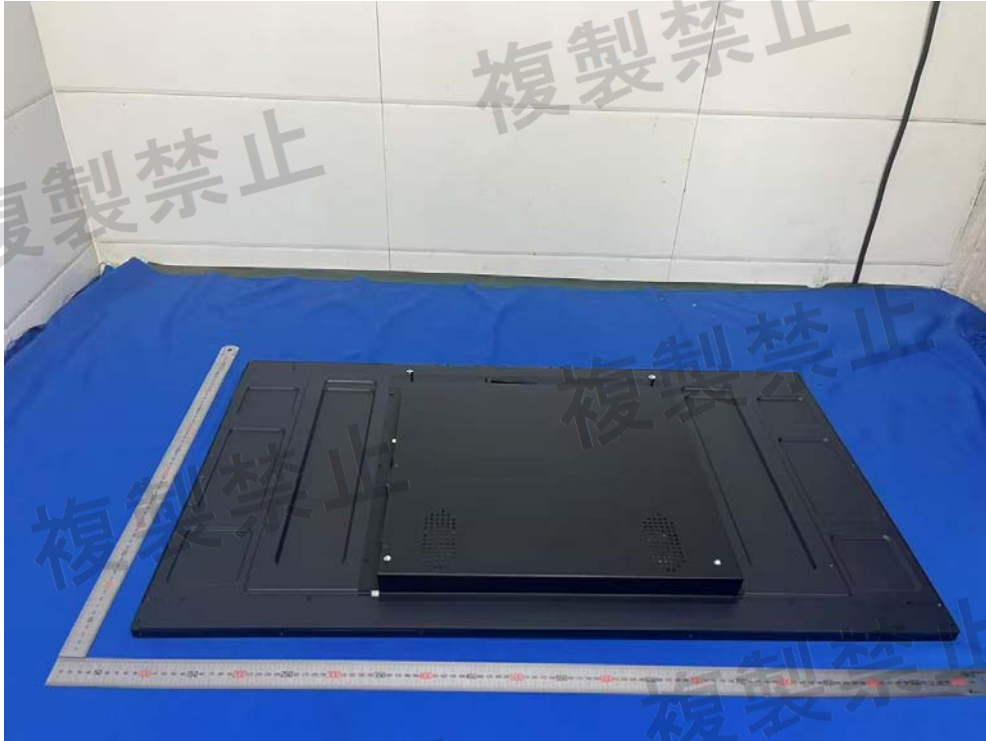
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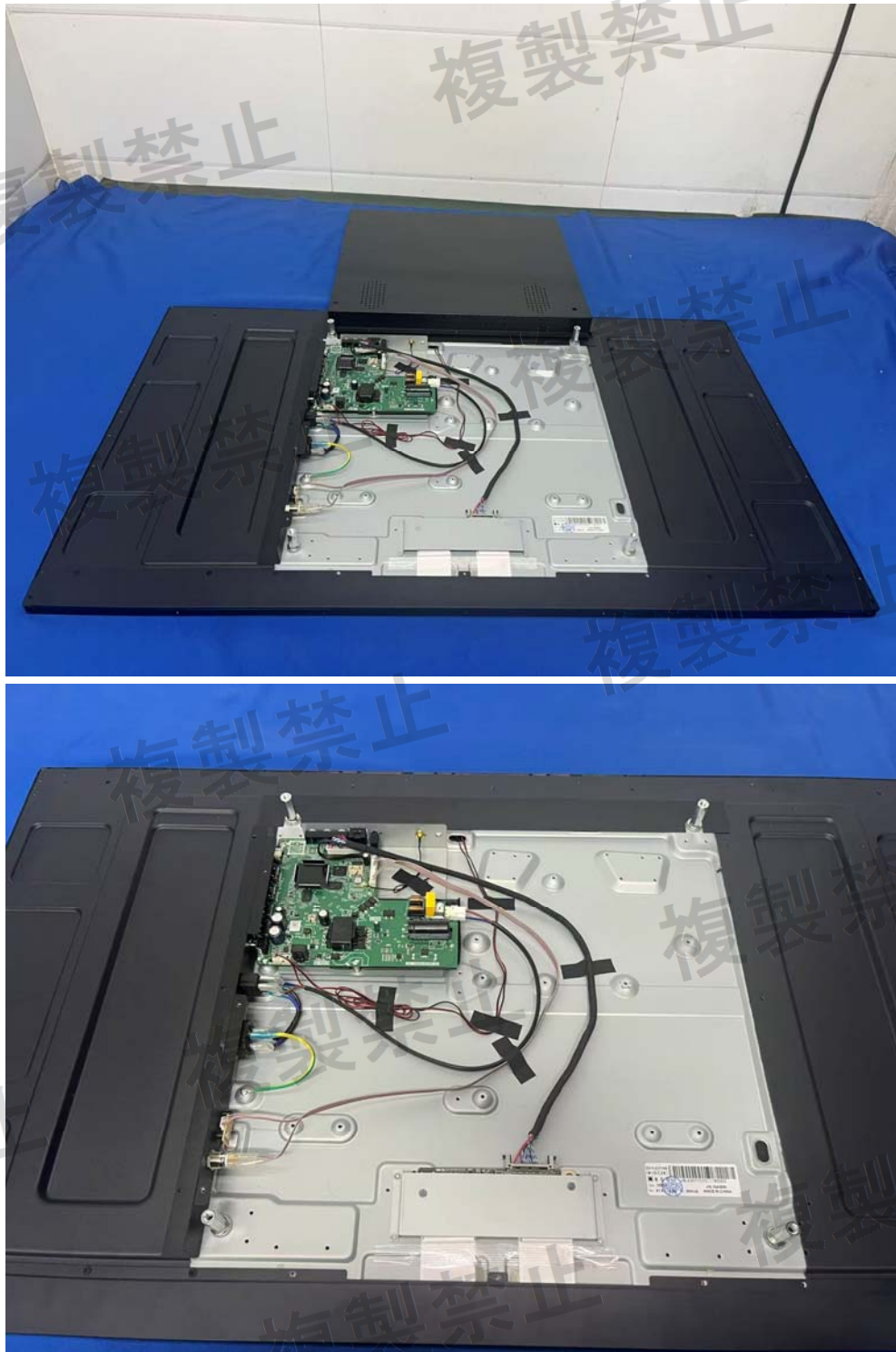
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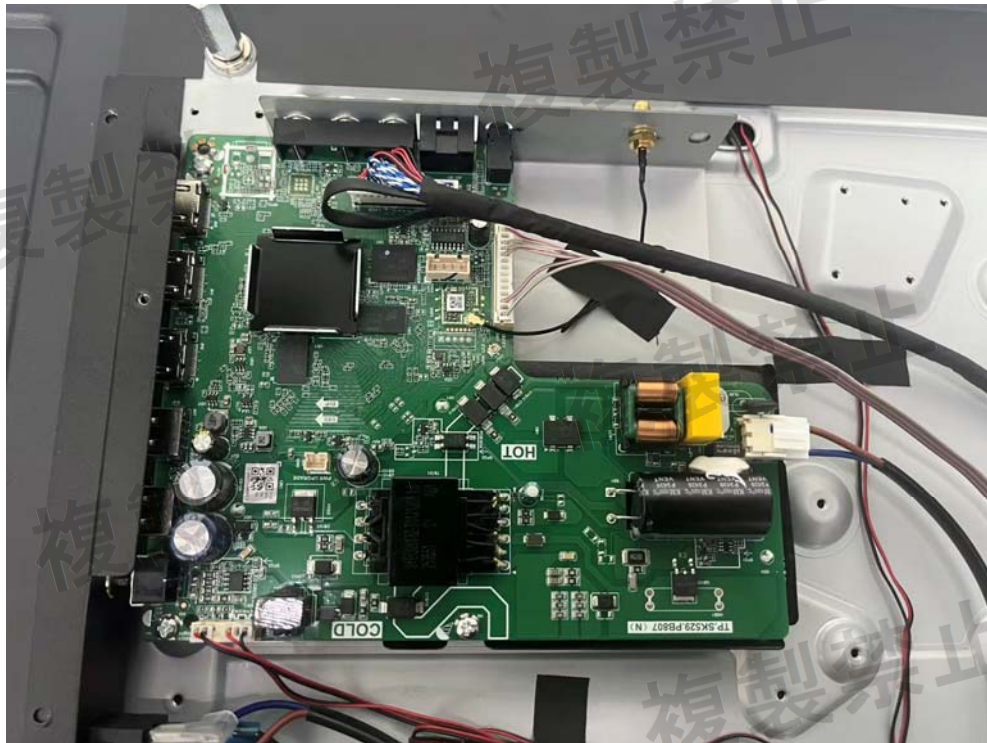
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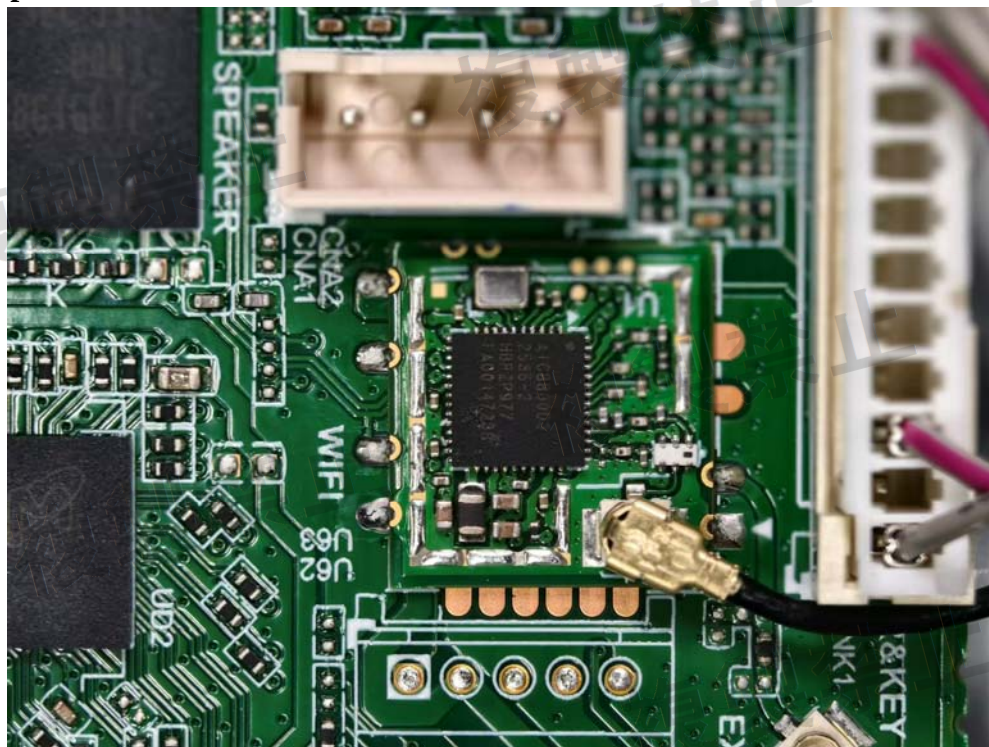
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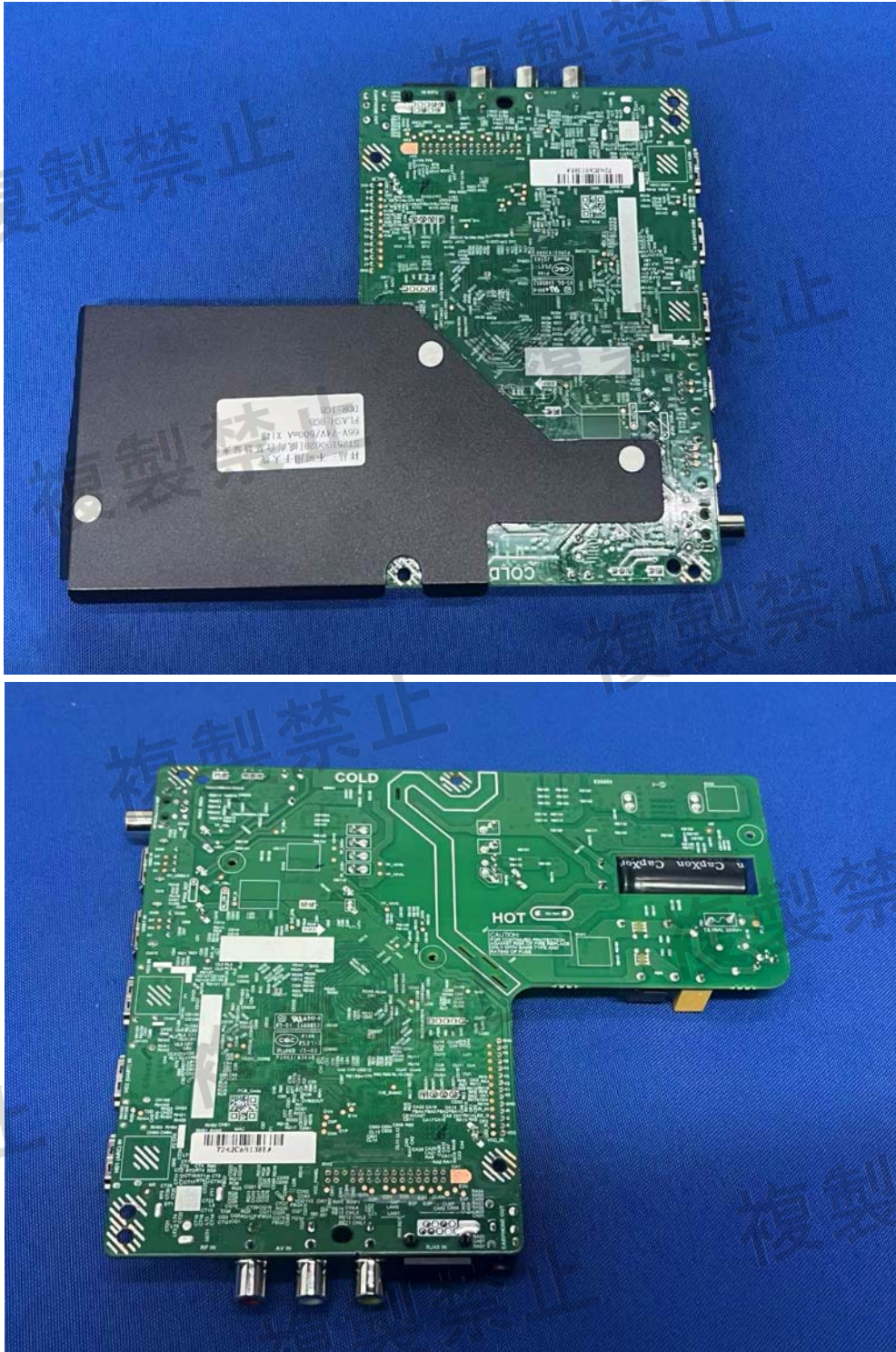
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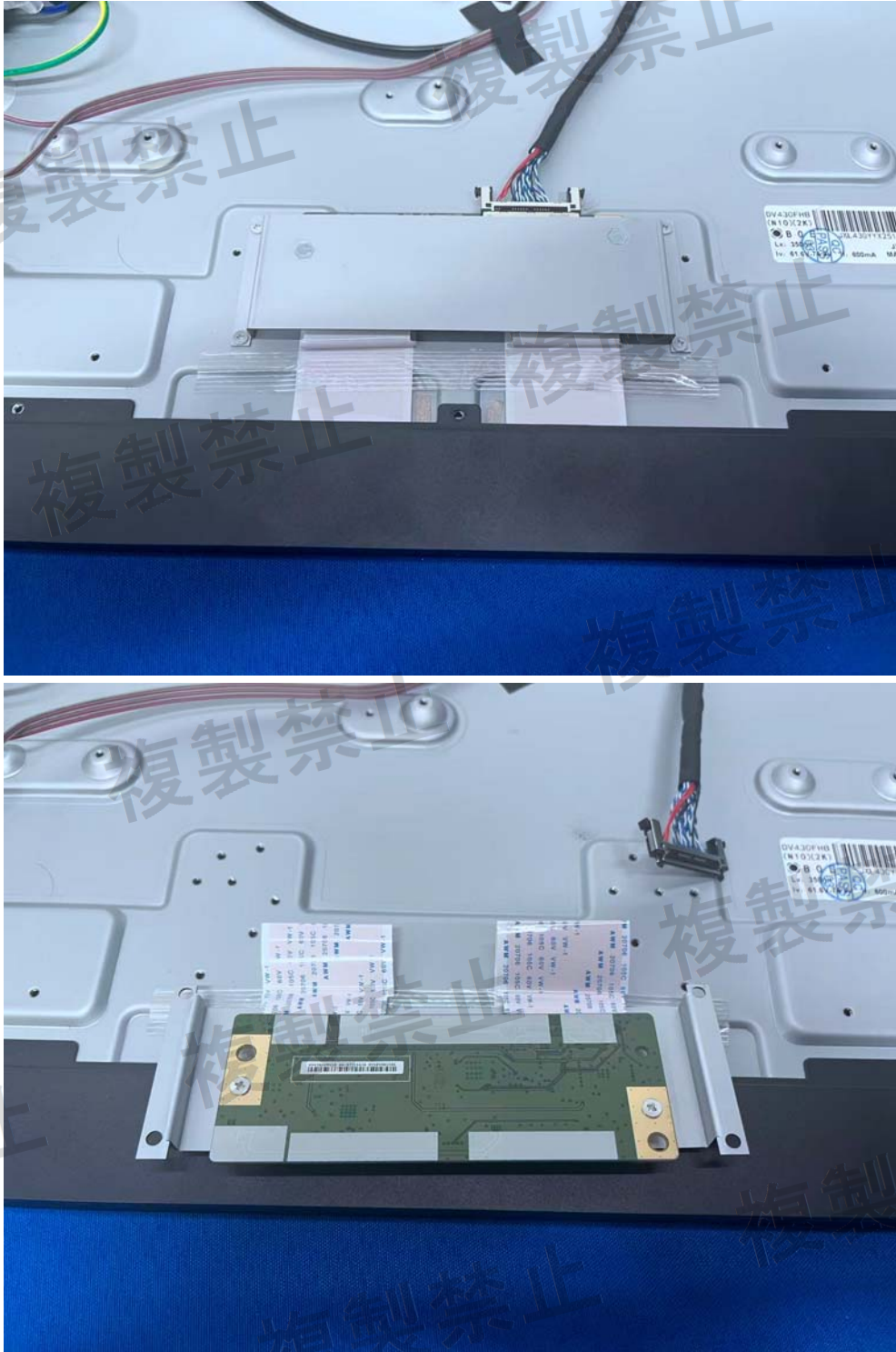
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