

47 CFR PART 15 SUBPART C TEST REPORT

for

Smart Home Alarm System

Model No.: HSGW-MAX-CatM-DT32

FCC ID: GX9HSGWM8M1ZB

Of

Applicant: CLIMAX TECHNOLOGY CO., LTD.
Address: No. 258, Sinhu 2nd Rd., Neihu District,
Taipei City 114, Taiwan (R.O.C.)

Tested and Prepared

By

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634



Report No.: W6M22603-25061-C-1



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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.

Tester:

May 13, 2026

Sora Kuo

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

May 13, 2026

Kevin Wang

Date

WTS

Name

Signature



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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.)

3 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

FCC filed test laboratory Reg. No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634

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

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

1.3 Details of approval holder

Name: CLIMAX TECHNOLOGY CO., LTD.

Street: No. 258, Sinhu 2nd Rd., Neihu District,

Town: Taipei City 114,

Country: Taiwan (R.O.C.)



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1.4 Application details

Date of receipt of test item: March 27, 2026
Date of test: from March 30, 2026 to May 11, 2026

1.5 Test item

Description of test item: Smart Home Alarm System
Type identification: HSGW-MAX-CatM-DT32
Brand name: ./.
Multi-listing model number: ./.
Transmitting frequency: 1914.3 MHz
Operation mode: Simplex
Voltage supply: Adapter (I/P: 100-240V~50/60Hz 0.30A Max
O/P: 12.0V=1.0A 12W)
Battery 7.2V, 1100mAh

Antenna type: Monopole antenna
Antenna gain: -6.51 dBi
Sample no.: #02

Manufacturer (if applicable)
Name: ./.
Street: ./.
Town: ./.
Country: ./.

1.6 Test standards

47 CFR PART 15 SUBPART C § 15.231 (e) (2024-10)

1.7 Test procedure

ANSI C63.10-2020+ Cor.1-2023+C63.10a-2024



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2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed. ☒

or

The deviations were ascertained in the course of the tests performed. ☐

2.2 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission (Conducted Measurement at (AC) Power Line)	Expanded Uncertainty : AMN : 0.90 dB Voltage probe : 1.18 dB Include Pulse Limiter : 1.44 dB
Estimation Result of Uncertainty of Radiated Emission(3M-966A) (Output Power (Field Strength), Out of Band Radiated Emissions, Transmitter Radiated Emissions in restricted Bands, Spurious Emission radiated)	Expanded Uncertainty : 009-30 MHz : 1.85 dB 30-1000 MHz : 4.21 dB 1-18 GHz : 3.19 dB 18-40 GHz : 1.90 dB
Estimation Result of Uncertainty of Bandwidth Measurement (Channel Bandwidth)	Expanded Uncertainty : 0.37 kHz
Estimation Result of Uncertainty of Frequency Drift Measurement (Frequency Tolerance)	Expanded Uncertainty : 6.11 Hz
Estimation Result of Uncertainty of Duty Cycle Measurement (Active Time)	Expanded Uncertainty : 0.18 ms

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

2.3 Test Mode

This EUT is the portable device. So the EUT was tested on three different axes. Please see assessment test results as section 3 of this test report.



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2.4 Test equipment utilized

Power

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2025/9/10	2026/9/9
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168&EMCI-N-6-06	01380&AT-06007	SCHWARZBECK&EMC	2026/4/17	2027/4/16
ETSTW-Cable 077	SMA type cable (10m)	EMC104-SM-SM-10000	230511	EMCI	2025/7/11	2026/7/10
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2025/7/11	2026/7/10
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2025/7/11	2026/7/10
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	

Spurious emission (966A)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2025/9/10	2026/9/9
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2026/4/20	2027/4/19
ETSTW-RE 160	Amplifier Module	CHC 3	None	WTS	2025/7/11	2026/7/10
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168&EMCI-N-6-06	01380&AT-06007	SCHWARZBECK&EMC	2026/4/17	2027/4/16
ETSTW-RE 178	Double Ridged Guide Horn Antenna	DRH18-E	210505A18ES	RFSPIN	2026/3/26	2027/3/25
ETSTW-Cable 077	SMA type cable (10m)	EMC104-SM-SM-10000	230511	EMCI	2025/7/11	2026/7/10
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2025/7/11	2026/7/10
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2025/7/11	2026/7/10
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	

Duration Time & Duty cycle & 20dB Bandwidth

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2026/3/12	2027/3/11



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2.5 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI C63.10-2020+ Cor.1-2023+C63.10a-2024 6.2 using a LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD ANSI C63.10-2020+ Cor.1-2023+C63.10a-2024 6.3 using a spectrum analyzer. The bandwidth of the spectrum analyzer was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was the 100 kHz and the video bandwidth was 300 kHz.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBμV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz) METER READING + ACF + CABLE LOSS (to the receiver) = FS
20 dBμV + 10.36 dB/m + 6 dB = 36.36 dBμV/m @3m

ANSI C63.10-2020+ Cor.1-2023+C63.10a-2024 6.2.2 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the center of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

ANSI C63.10-2020+ Cor.1-2023+C63.10a-2024 B.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



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3 Test results (enclosure)

☒ 1st test

☐ test after modification

☐ production test

TEST CASE	Para. Number	Required	Test passed	Test failed
Transmission Requirements	15.231(a)	☒	☒	☐
Radiated Emission	15.231(b)	☒	☒	☐
Bandwidth of Emission	15.231(c)	☒	☒	☐
Frequency Tolerance	15.231(d)	☐	☐	☐
Period Alternate Field Strength Requirements	15.231(b)	☒	☒	☐
Antenna Requirement	15.203	☒	☒	☐
Conducted Measurement at (AC) Power Line	15.207	☒	☒	☐

The following is intentionally left blank.



FCC ID: GX9HSGWM8M1ZB

3.1 Transmission Requirements

FCC 15.231(a)

3.1.1 Limit of Transmission Time

☒ According to 15.231(a)(1), a manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

☐ According to 15.231(a)(2), a transmitter activated automatically shall cease transmission within 5 seconds after activation.

3.1.2 Active Time

Test date: April 07, 2026

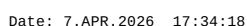
Temperature: 24.9 °C

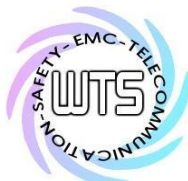
Humidity: 59.7 %

Tester: Sora

☒ This manually operated transmitter employs a switch that automatically deactivate the transmitter within 336.346154 ms of being released.

☐ This transmitter is operated by automatic activation and active will cease transmission in __ ms after activation.

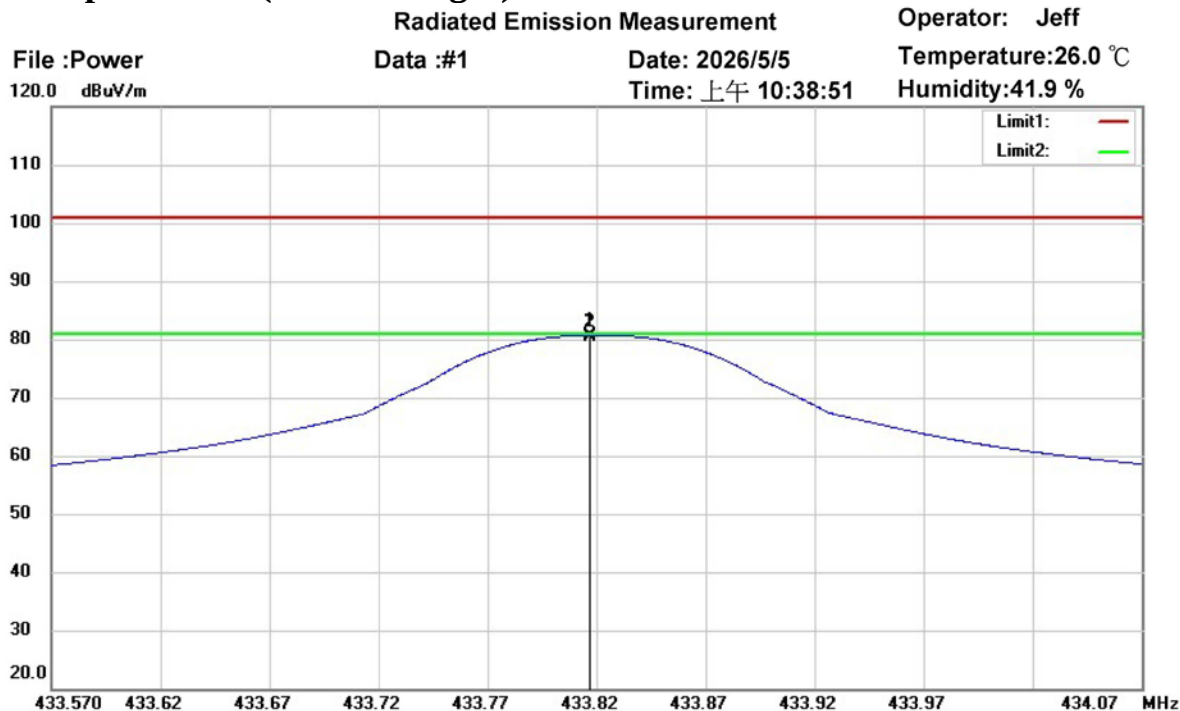




Registration number: W6M22603-25061-C-1

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3.2 Output Power (Field Strength)



Site : 966A Chamber

Condition : FCC 15.231(433.82MHz)Power(PK)

EUT : W6M22603-25061

M/N:

Test Mode : TX 433.82MHz

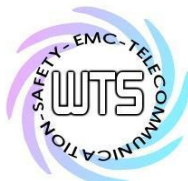
Note :

Polarization: *Horizontal*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	433.8170	55.26	peak	25.37	80.63	100.80	100	100	-20.17	
*	433.8170	54.92	AVG	25.37	80.29	80.80	100	100	-0.51	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22603-25061-C-1

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Radiated Emission Measurement

Operator: Jeff

File :Power

Data :#2

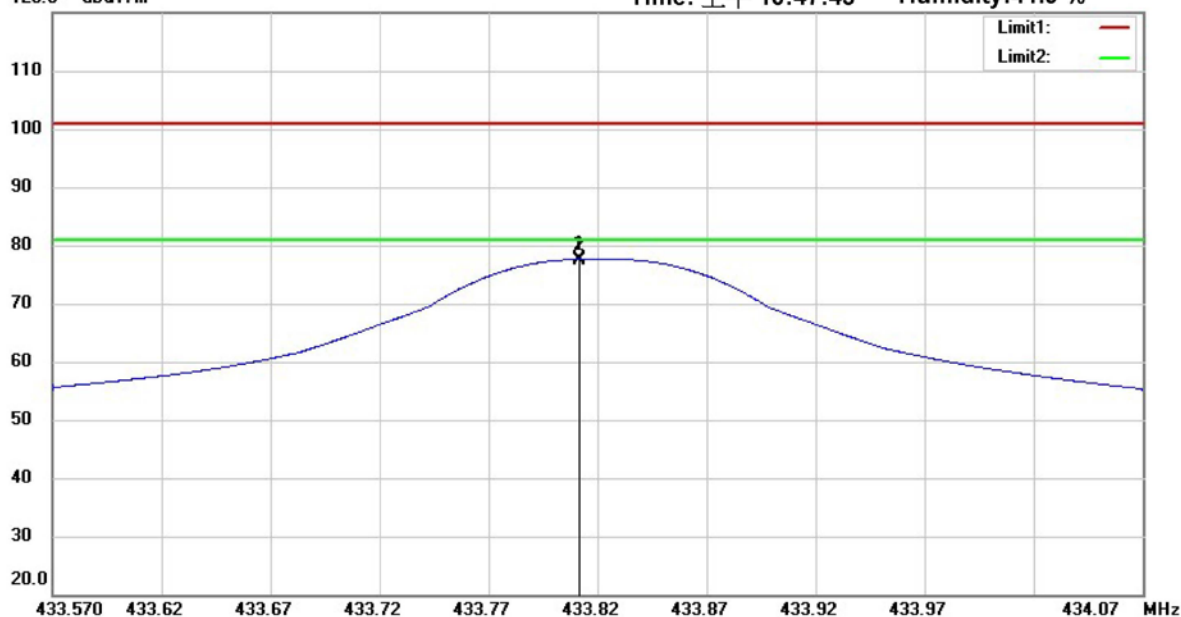
Date: 2026/5/5

Temperature:26.0 °C

120.0 dBuV/m

Time: 上午 10:47:45

Humidity:41.9 %



Site : 966A Chamber

Condition : FCC 15.231(433.82MHz)Power(PK)

Polarization: **Vertical**

EUT : W6M22603-25061

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 433.82MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	433.8115	52.25	peak	25.37	77.62	100.80	155	80	-23.18	
*	433.8115	51.91	AVG	25.37	77.28	80.80	155	80	-3.52	

Limit 15.231(b)

Fundamental Frequency (MHz)	Field strength of fundamental, limit $\mu\text{V/m}$
40.66 – 40.70	2,250
70 – 130	1,250
130 – 174	1,250 to 3,750
174 – 260	3,750
260 – 470	3,750 to 12,500** (433.82 MHz: 80.82 dB $\mu\text{V/m}$ = 10992.51 $\mu\text{V/m}$)
Above 470	12,500

** linear interpolation

Explanation: ./.



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3.3 Out of Band Radiated Emissions

FCC Rule: 15.231(b) , 15.35

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Guidance on Measurement of pulsed emission: 15.35(c)

“the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.”

Duty Cycle correction = $20 \log (\text{dwell time}/100\text{ms or one period})$

Limits:

For frequencies (Average measurements)

Correction factor conform 15.35 (c) (Average measurements)

Duty cycle correction :

Max. Peak reading – duty cycle correction

Max permitted average Limits = Max permitted Fundamental limit – 20 dB

For example for 433.82 fundamental carrier:

Max permitted average Limit: $80.82 \text{ dB}\mu\text{V/m} - 20 \text{ dB} = 60.82 \text{ dB}\mu\text{V/m}$

For frequencies above 1GHz (Peak measurements).

Modified Limits for peak conform 15.35 (b) = Max Permitted average Limits + 20dB (because Peak detector is used)



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3.4 Transmitter Radiated Emissions in restricted Bands

FCC Rules: 15.231 (b), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 8000 MHz.

For radiated emission tests, the analyzer setting was as followings:

RES BW VID BW

Frequency <1 GHz 100 kHz 100 kHz (Peak measurements)

Frequency >1 GHz 1 MHz 1 MHz (Peak measurements)

1 MHz 1 MHz (Average measurements)

Limits:

For frequencies below 1GHz :

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of pulsed emission:

“If the emission is pulsed, modify the unit for continues operation , use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.

For frequencies above 1GHz (Average measurements).

The correction factor, based on the channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty cycle correction = $20 \log (\text{dwell time}/100\text{ms})$

No duty cycle correction was added to the reading

Modified Limits for peak conform 15.35 (b) = Max Permitted average Limits + 20dB (because Peak detector is used)

Above 960 MHz

For mode DSSS CW: $54 \text{ dB}\mu\text{V/m} + 20 \text{ dB} = 74 \text{ dB}\mu\text{V/m}$

Explanation: See attached diagrams in appendix.



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3.5 Spurious Emission radiated, Transmitter

Spurious emission was measured with modulation (declared by manufacturer).

The limits on the field strength of the spurious emission in the table § 15.231(b) are based on the fundamental frequency of the intentional radiator. Spurious emission shall be attenuated to the average (or alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in § 15.209, whichever limit permits a higher field strength.

In addition, radiated emission which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance to point 2.3.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.

In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

Summary table with radiated data of the test plots

- Note**
- 1. Correction Factor = Antenna factor + Cable loss - Preamplifier**
 - 2. The formula of measured value as: Test Result = Reading + Correction Factor**
 - 3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
 - 4. All not in the table noted test results are more than 20 dB below the relevant limits.**
 - 5. Up Line: PK Limit Line, Down Line: Ave Limit Line.**

All other not noted test plots do not contain significant test results in relation to the limits

Test results: The unit meet the FCC requirements.

Explanation: See attached diagrams in appendix.



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3.6 Channel Bandwidth

Measurement of Necessary Bandwidth (BN)

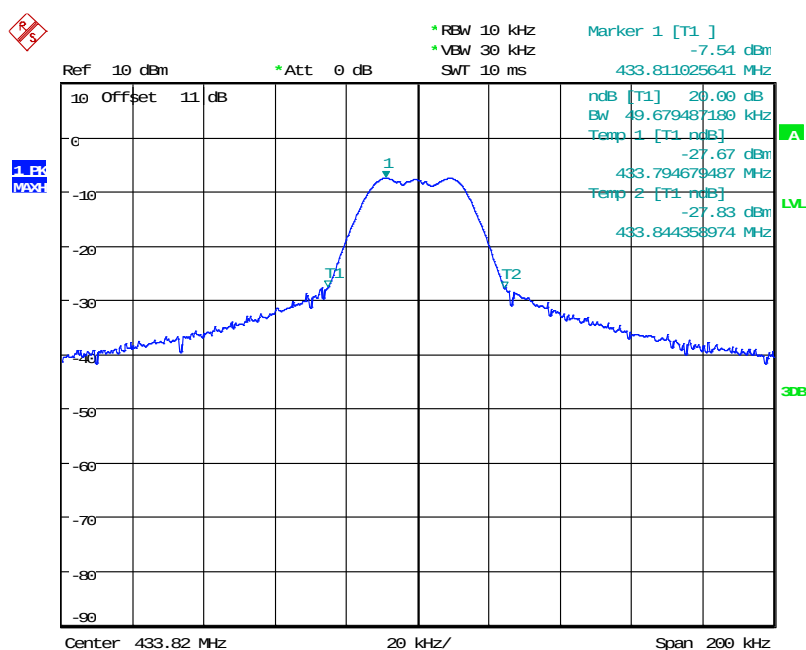
Test date: May 08, 2026

Temperature: 25.5 °C

Humidity: 58.6 %

Tester: Sora

Used frequency	Bandwidth	Limit
433.82 MHz	49.679487180 kHz	1.08455 MHz



Date: 8.MAY.2026 17:43:40

Limits:

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.



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3.7 Antenna requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

Explanation: This Monopole antenna is integral antenna which passes antenna requirement.

The equipment meets the requirements	yes ☒	no ☐
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3.8 Duty Cycle

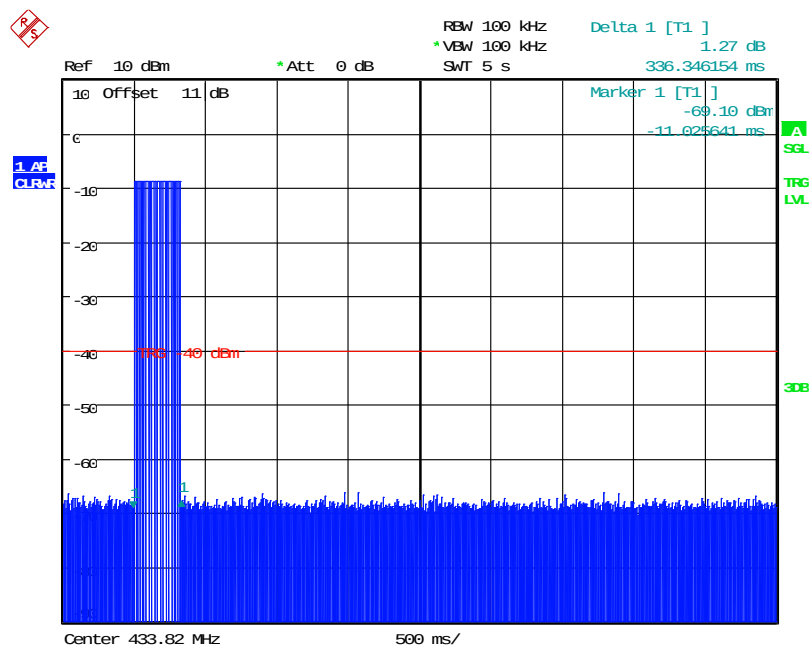
The correction factor, based on the channel dwell time in a 100ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the measured value.

Average Reading = Peak Reading (dBuV/m) + Duty Cycle Correction

Tester: Sora

In order to determine the Duty Cycle, the EUT is measured as:

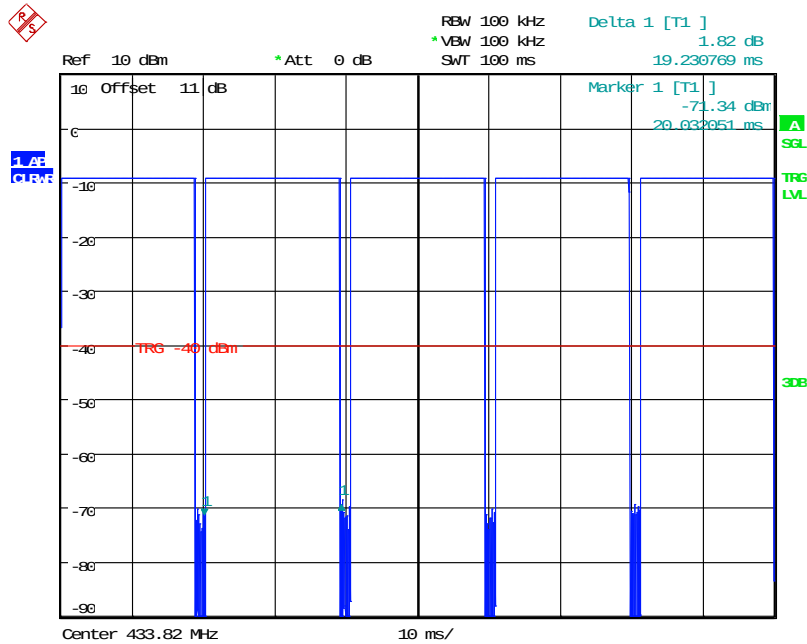
Testing Mode	T period (ms)	T on (ms)	Duty Cycle	Duty Cycle Correction 20*log(Duty Cycle)
Transmitting mode	100	96.155	0.96155	-0.34



Date: 7.APR.2026 17:34:18



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Date: 7.APR.2026 17:36:15

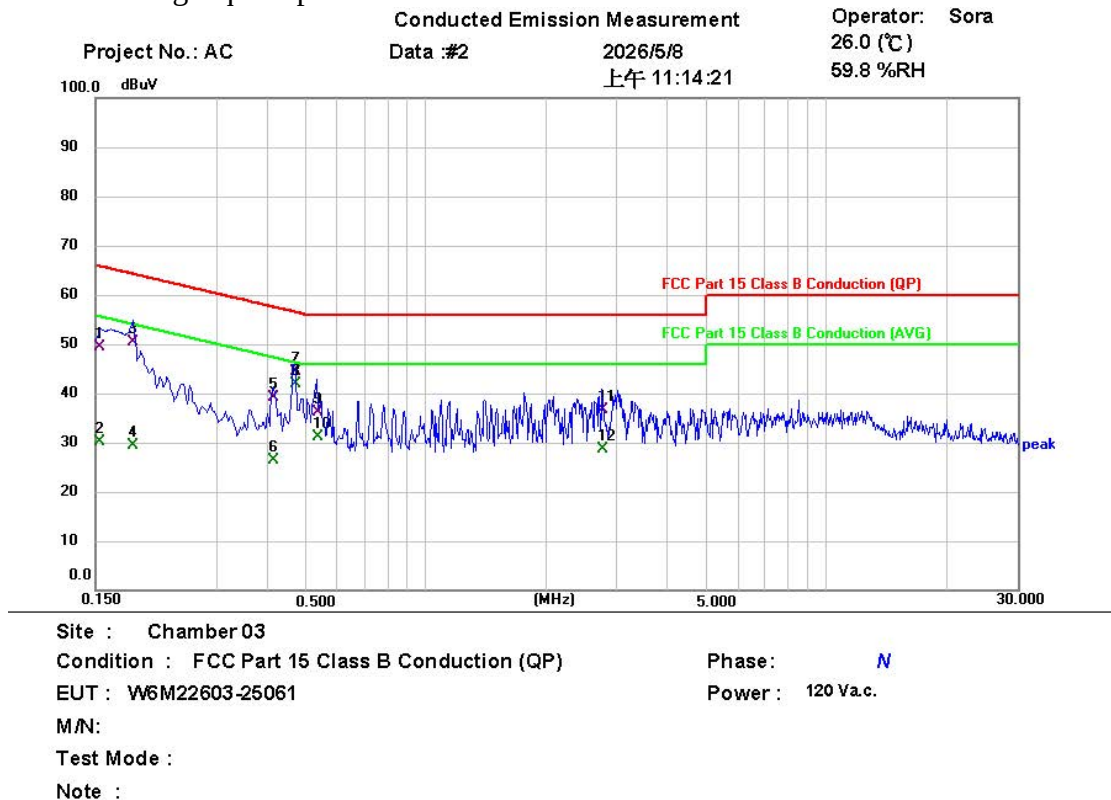
Registration number: W6M22603-25061-C-1

FCC ID: GX9HSGWM8M1ZB

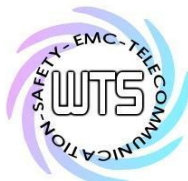
3.9 Conducted Measurement at (AC) Power Line

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.



Mk.	Frequency (MHz)	Reading (dBUV)	Detector	Corrected factor(dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Comment
	0.1544	39.37	QP	9.99	49.36	65.76	-16.40	
	0.1544	20.14	AVG	9.99	30.13	55.76	-25.63	
	0.1860	40.31	QP	10.02	50.33	64.21	-13.88	
	0.1860	19.34	AVG	10.02	29.36	54.21	-24.85	
	0.4155	29.10	QP	10.03	39.13	57.54	-18.41	
	0.4155	16.42	AVG	10.03	26.45	47.54	-21.09	
	0.4695	34.30	QP	10.03	44.33	56.52	-12.19	
*	0.4695	31.82	AVG	10.03	41.85	46.52	-4.67	
	0.5324	26.06	QP	10.03	36.09	56.00	-19.91	
	0.5324	21.15	AVG	10.03	31.18	46.00	-14.82	
	2.7645	26.42	QP	10.14	36.56	56.00	-19.44	
	2.7645	18.51	AVG	10.14	28.65	46.00	-17.35	



Registration number: W6M22603-25061-C-1

FCC ID: GX9HSGWM8M1ZB

Conducted Emission Measurement

Operator: Sora

Data :#1

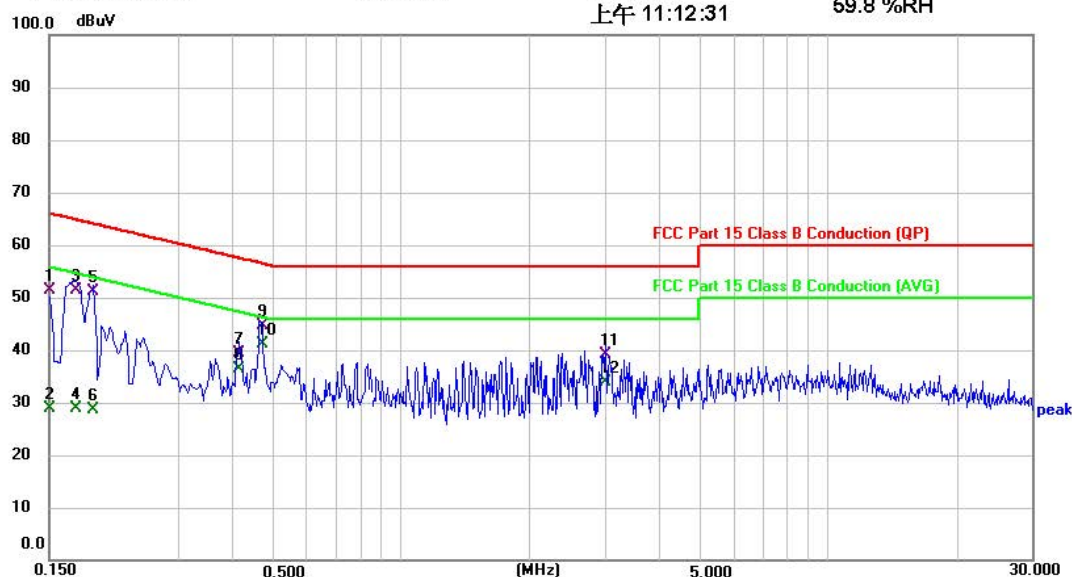
2026/5/8

26.0 (°C)

上午 11:12:31

59.8 %RH

Project No.: AC



Site : Chamber 03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M22603-25061

Power : 120 V.a.c.

M/N:

Test Mode :

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1500	41.33	QP	10.00	51.33	66.00	-14.67	
	0.1500	18.98	AVG	10.00	28.98	56.00	-27.02	
	0.1724	41.45	QP	10.03	51.48	64.84	-13.36	
	0.1724	18.80	AVG	10.03	28.83	54.84	-26.01	
	0.1905	41.08	QP	10.05	51.13	64.01	-12.88	
	0.1905	18.48	AVG	10.05	28.53	54.01	-25.48	
	0.4154	29.41	QP	10.05	39.46	57.54	-18.08	
	0.4154	26.34	AVG	10.05	36.39	47.54	-11.15	
	0.4694	34.52	QP	10.05	44.57	56.52	-11.95	
*	0.4694	31.02	AVG	10.05	41.07	46.52	-5.45	
	3.0120	28.89	QP	10.17	39.06	56.00	-16.94	
	3.0120	23.77	AVG	10.17	33.94	46.00	-12.06	

Note

1. The formula of measured value as: Test Result = Reading + Correction Factor
2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Up Line: QP Limit Line, Down Line: Ave Limit Line.



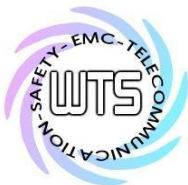
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22603-25061-C-1

FCC ID: GX9HSGWM8M1ZB

Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
	56	46
	60	50



Registration number: W6M22603-25061-C-1
FCC ID: GX9HSGWM8M1ZB

Appendix

Measurement diagrams

Spurious Emissions radiated



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Jeff

File :1

Data :#1

Date: 2026/5/7

Temperature: 26.8 °C

100.0 dBuV/m

Time: 上午 11:51:55

Humidity: 48.3 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 30-300(PK)

EUT : W6M22603-25061

M/N:

Test Mode : TX 433.82MHz

Note :

Polarization: **Horizontal**

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	61.3200	41.58	peak	-13.08	28.50	80.80	100	268	-52.30	
	125.0400	40.84	peak	-14.30	26.54	43.50	100	61	-16.96	
*	250.0500	43.47	peak	-13.46	30.01	46.00	100	84	-15.99	
	300.0000	42.32	peak	-11.79	30.53	80.80	100	166	-50.27	

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



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Jeff

File :1

Data :#2

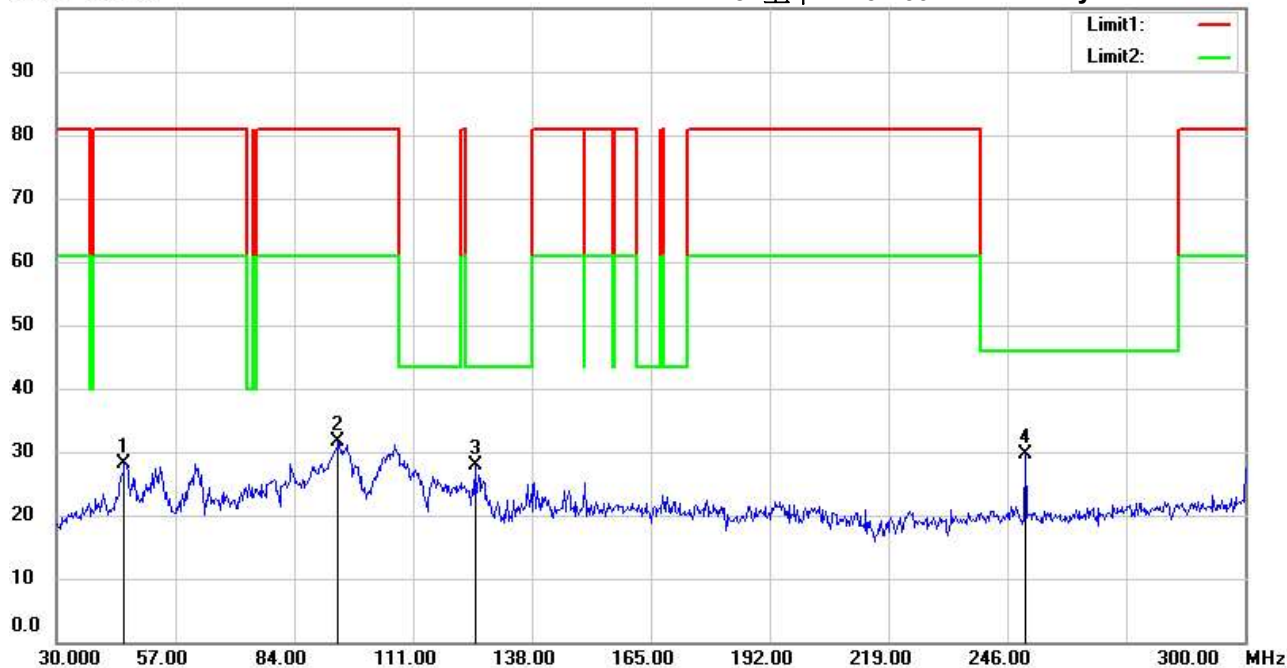
Date: 2026/5/7

Temperature: 26.8 °C

100.0 dBuV/m

Time: 上午 11:52:39

Humidity: 48.3 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 30-300(PK)

EUT : W6M22603-25061

M/N:

Test Mode : TX 433.82MHz

Note :

Polarization: Vertical

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	45.3900	41.18	peak	-13.13	28.05	80.80	100	135	-52.75	
	93.9900	49.33	peak	-17.82	31.51	80.80	100	124	-49.29	
*	125.0400	42.22	peak	-14.30	27.92	43.50	100	170	-15.58	
	250.0500	43.16	peak	-13.46	29.70	46.00	100	208	-16.30	

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



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Jeff

File : 2

Data : #1

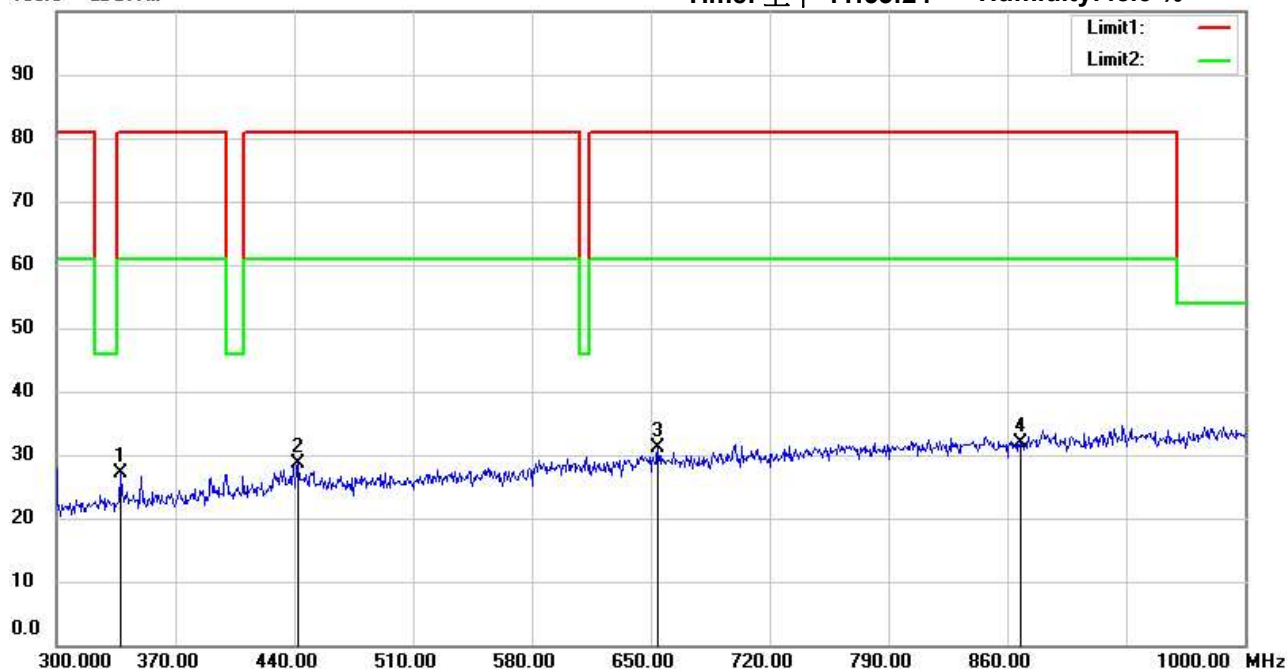
Date: 2026/5/7

Temperature: 26.8 °C

100.0 dBuV/m

Time: 上午 11:53:24

Humidity: 48.3 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 300-1000(PK)

EUT : W6M22603-25061

M/N:

Test Mode : TX 433.82MHz

Note :

Polarization: **Horizontal**

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	337.8000	38.11	peak	-11.03	27.08	80.80	100	347	-53.72	
	442.1000	36.86	peak	-8.13	28.73	80.80	100	142	-52.07	
	654.2000	34.68	peak	-3.58	31.10	80.80	100	220	-49.70	
*	867.6400	33.09	peak	-1.11	31.98	80.80	100	85	-48.82	

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



Radiated Emission Measurement

Operator: Jeff

File : 2

Data : #2

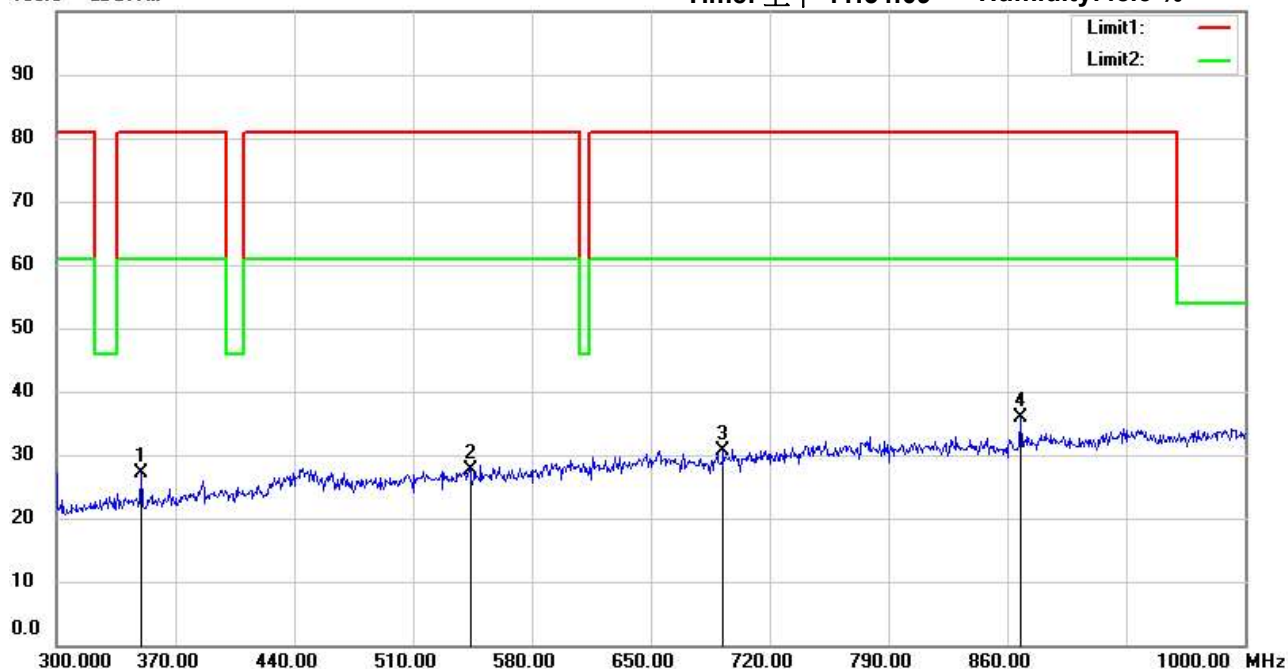
Date: 2026/5/7

Temperature: 26.8 °C

100.0 dBuV/m

Time: 上午 11:54:09

Humidity: 48.3 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 300-1000(PK)

EUT : W6M22603-25061

M/N:

Test Mode : TX 433.82MHz

Note :

Polarization: Vertical

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	349.7000	37.94	peak	-10.74	27.20	80.80	100	191	-53.60	
	543.6000	34.05	peak	-6.32	27.73	80.80	100	23	-53.07	
	692.7000	34.01	peak	-3.26	30.75	80.80	100	342	-50.05	
*	867.7000	36.95	peak	-1.10	35.85	80.80	100	316	-44.95	



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File : 3

Data : #1

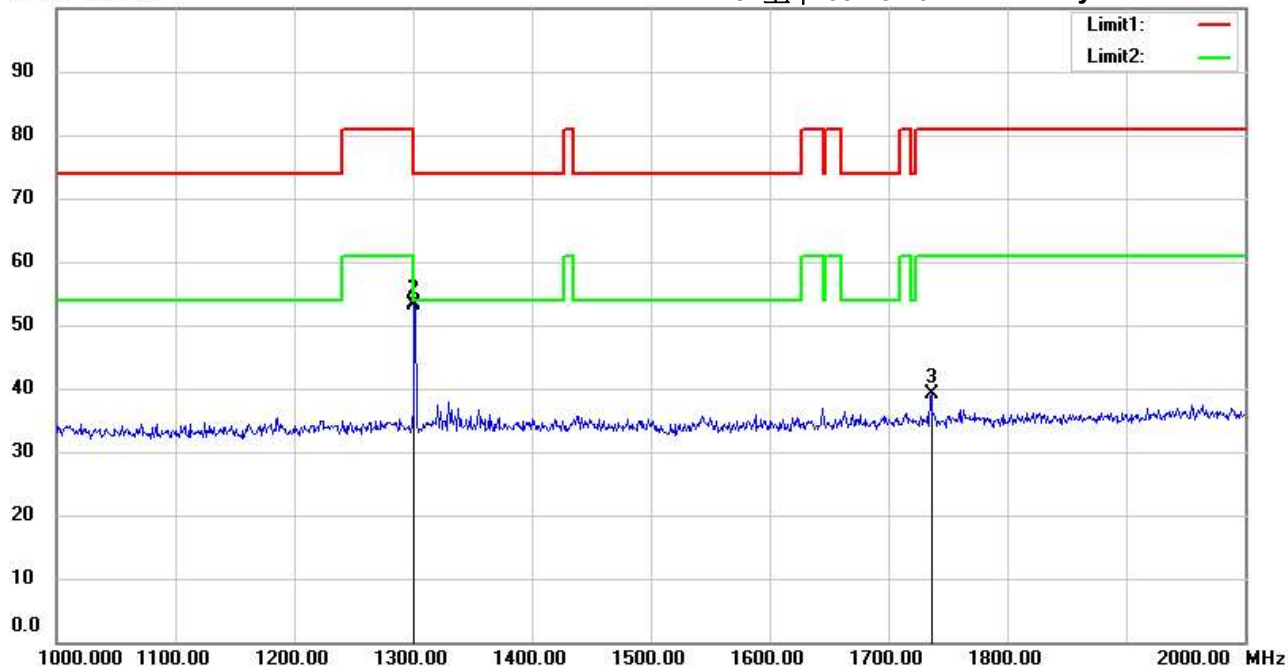
Date: 2026/5/5

Temperature: 26.0 °C

100.0 dBuV/m

Time: 上午 05:48:19

Humidity: 41.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 1000-2000(PK)

EUT : W6M22603-25061

M/N:

Test Mode : TX 433.82MHz

Note :

Polarization: **Horizontal**

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	1301.000	61.40	peak	-7.91	53.49	74.00	150	112	-20.51	
*	1301.000	61.06	AVG	-7.91	53.15	54.00	150	112	-0.85	
	1736.000	46.03	peak	-6.93	39.10	80.80	150	180	-41.70	

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



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File : 3

Data : #4

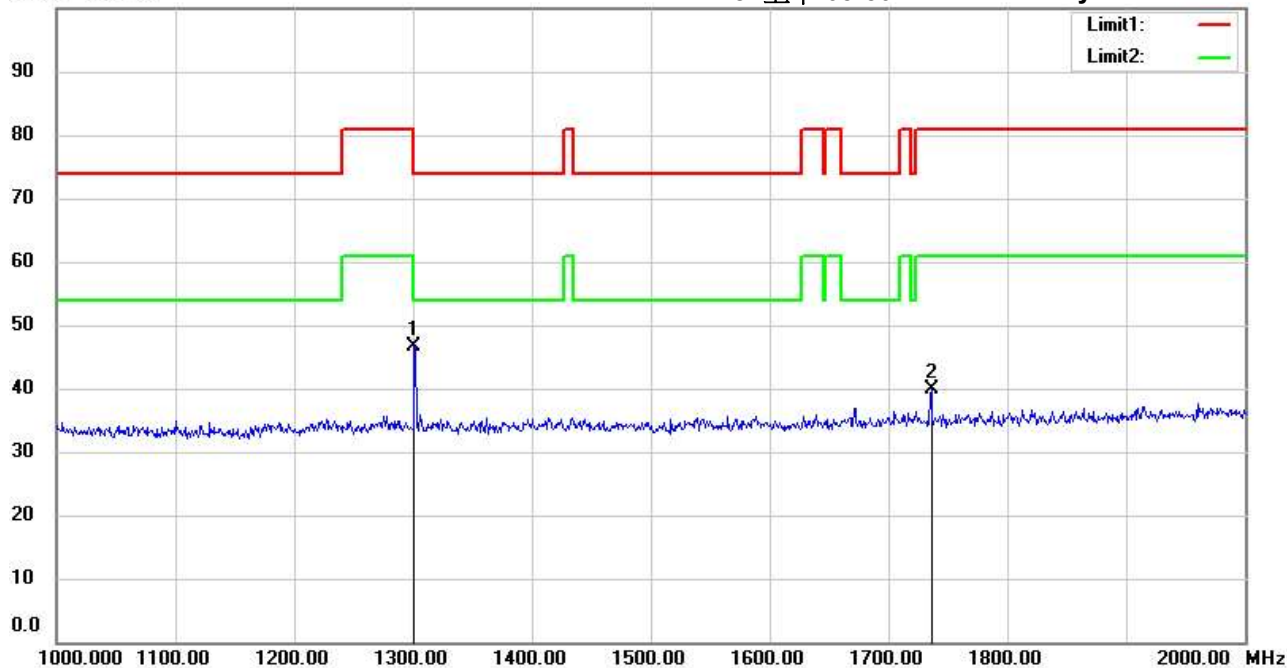
Date: 2026/5/5

Temperature: 26.0 °C

100.0 dBuV/m

Time: 上午 05:50:24

Humidity: 41.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 1000-2000(PK)

EUT : W6M22603-25061

M/N:

Test Mode : TX 433.82MHz

Note :

Polarization: **Vertical**

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1301.000	54.63	peak	-7.91	46.72	74.00	150	320	-27.28	
	1736.000	46.69	peak	-6.93	39.76	80.80	150	154	-41.04	

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



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File : 3

Data : #2

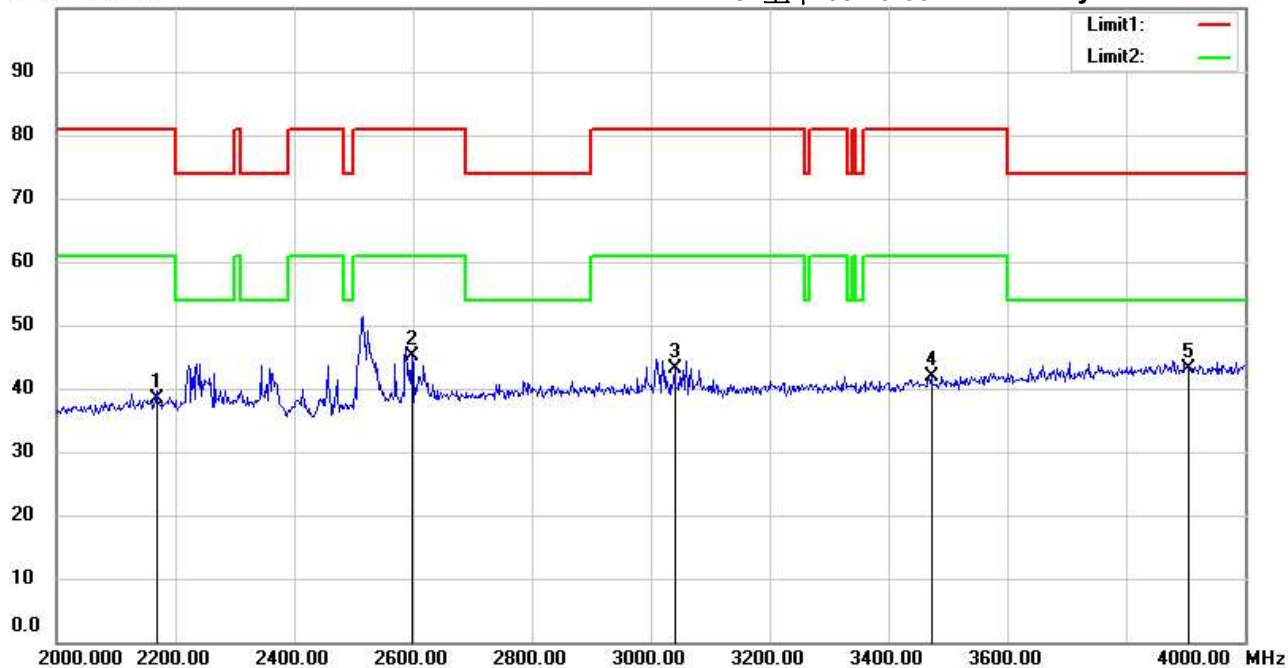
Date: 2026/5/5

Temperature: 26.0 °C

100.0 dBuV/m

Time: 上午 05:49:00

Humidity: 41.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 2000-4000(PK)

EUT : W6M22603-25061

M/N:

Test Mode : TX 433.82MHz

Note :

Polarization: Horizontal

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2169.100	42.42	peak	-4.10	38.32	80.80	150	112	-42.48	
	2598.000	48.42	peak	-3.20	45.22	80.80	150	285	-35.58	
	3040.000	44.77	peak	-1.71	43.06	80.80	150	175	-37.74	
	3472.000	42.81	peak	-0.85	41.96	80.80	150	130	-38.84	
*	3904.380	41.15	peak	1.92	43.07	74.00	150	169	-30.93	

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



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File : 3

Data : #5

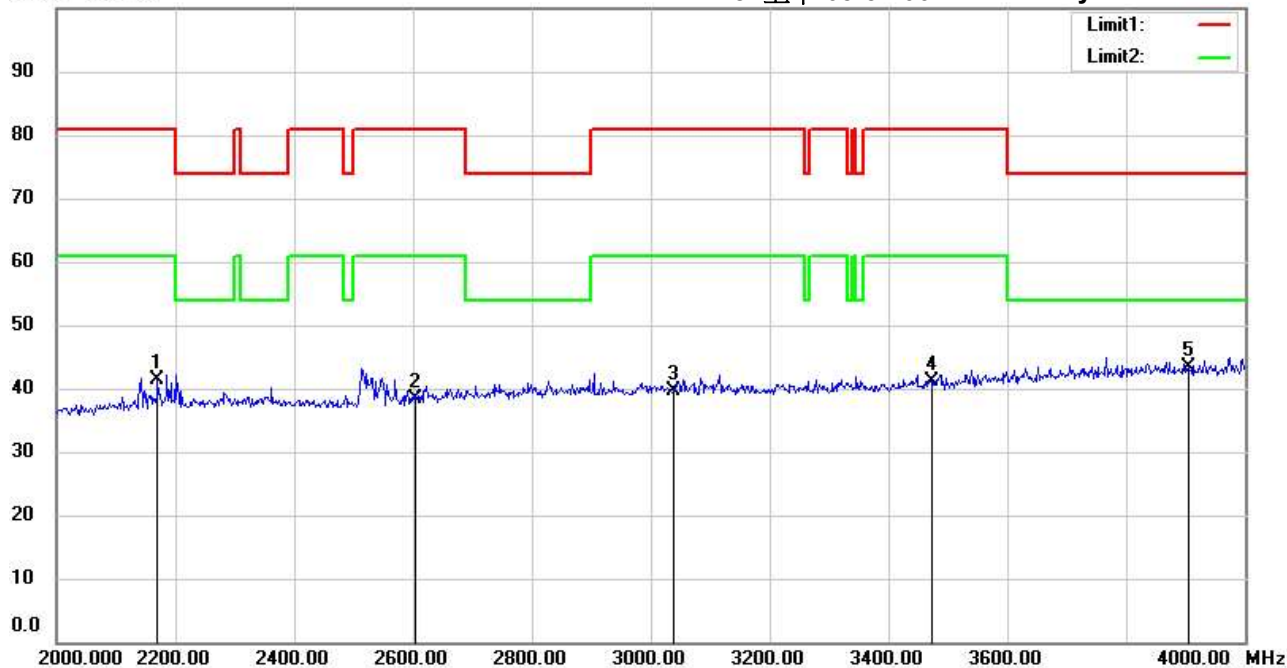
Date: 2026/5/5

Temperature: 26.0 °C

100.0 dBuV/m

Time: 上午 05:51:06

Humidity: 41.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 2000-4000(PK)

EUT : W6M22603-25061

M/N:

Test Mode : TX 433.82MHz

Note :

Polarization: Vertical

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2170.000	45.54	peak	-4.10	41.44	80.80	150	1	-39.36	
	2602.920	41.42	peak	-3.16	38.26	80.80	150	25	-42.54	
	3036.740	41.28	peak	-1.71	39.57	80.80	150	115	-41.23	
	3470.560	41.94	peak	-0.86	41.08	80.80	150	13	-39.72	
*	3904.380	41.44	peak	1.92	43.36	74.00	150	280	-30.64	

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



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File : 3

Data : #3

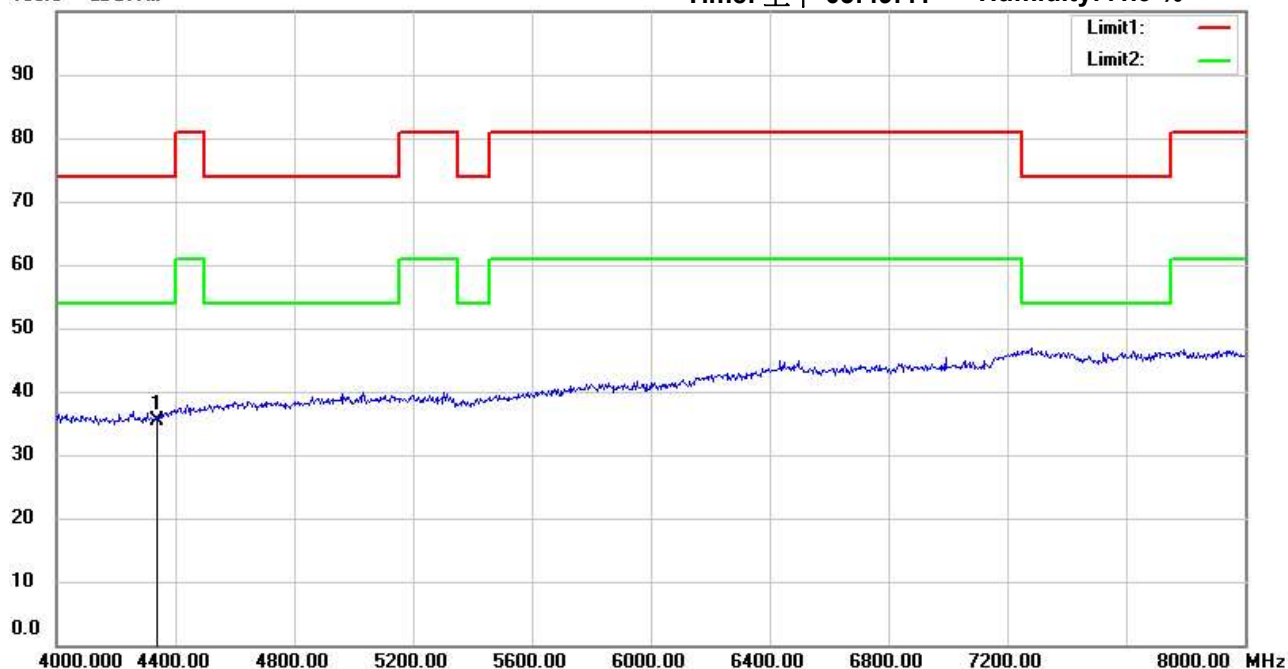
Date: 2026/5/5

Temperature: 26.0 °C

100.0 dBuV/m

Time: 上午 05:49:41

Humidity: 41.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 4000-8000(PK)

EUT : W6M22603-25061

M/N:

Test Mode : TX 433.82MHz

Note :

Polarization: **Horizontal**

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4338.200	32.77	peak	2.70	35.47	74.00	150	1	-38.53	

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



Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3

Data :#6

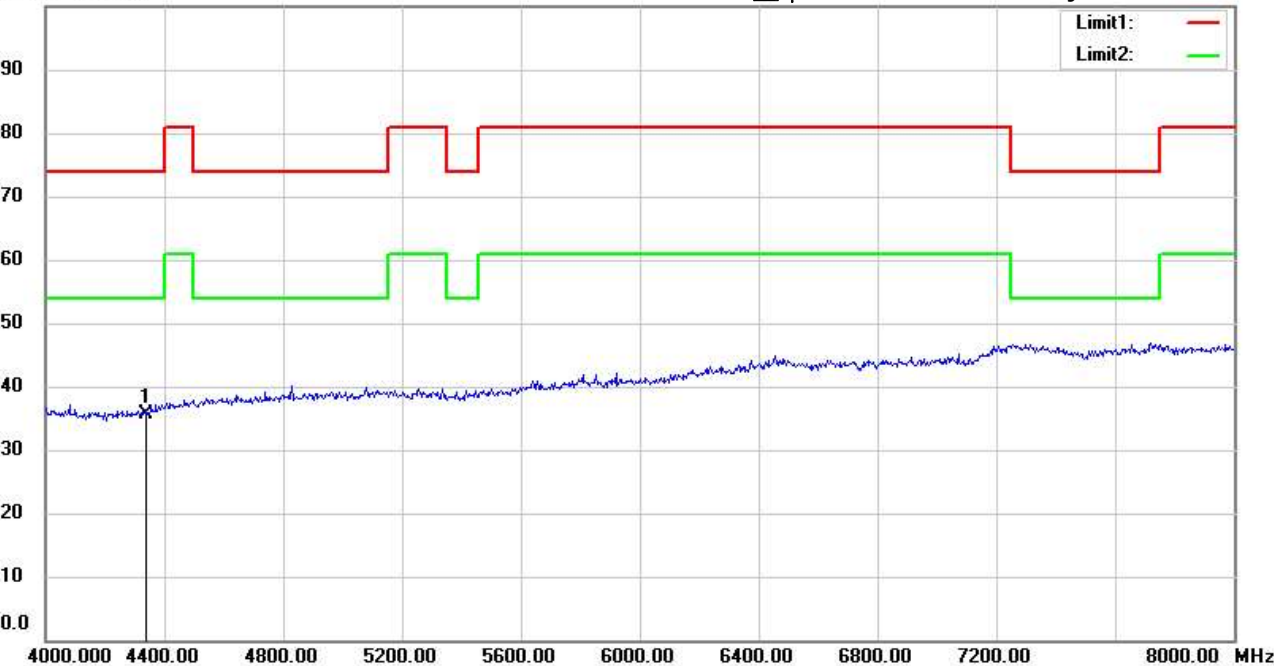
Date: 2026/5/5

Temperature:26.0 °C

100.0 dBuV/m

Time: 上午 05:51:47

Humidity:41.9 %



Site : 966A Chamber

Condition : FCC 15.231(433MHz) 4000-8000(PK)

EUT : W6M22603-25061

M/N:

Test Mode : TX 433.82MHz

Note :

Polarization: Vertical

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4338.200	32.82	peak	2.70	35.52	74.00	150	50	-38.48	

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