47 CFR PART 15 SUBPART C TEST REPORT

for

Carbon Monoxide Detector

Model No.: CO-15

FCC ID: GX9CO15F1919

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.: W6M22503-24195-C-1

6F., No. 58, Ln. 188, Rueiguang Rd., Neihu Dist., Taipei City , Taiwan (R.O.C.)
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TABLE OF CONTENTS

CERTIFICATION OF TEST REPORT 2

1 GENERAL INFORMATION 2

1.1 NOTES 2
1.2 TESTING LABORATORY 3
1.2.1 Location 3
1.2.2 Details of accreditation status 3
1.3 DETAILS OF APPROVAL HOLDER 3
1.4 APPLICATION DETAILS 3
1.5 GENERAL INFORMATION OF TEST ITEM 4
1.6 TEST STANDARDS 4
1.7 TEST PROCEDURE 4

2 TECHNICAL TEST 5

2.1 SUMMARY OF TEST RESULTS 5
2.2 TEST ENVIRONMENT 5
2.3 TEST EQUIPMENT LIST 6
2.4 GENERAL TEST PROCEDURE 7

3 TEST RESULTS (ENCLOSURE) 9

3.1 PEAK OUTPUT POWER (TRANSMITTER) 10
3.2 TRANSMITTER RADIATED EMISSIONS IN RESTRICTED BANDS 11
3.3 SPURIOUS EMISSIONS (TX) 12
3.4 CARRIER FREQUENCY SEPARATION 14
3.5 NUMBER OF HOPPING FREQUENCIES 16
3.5.1 Pseudorandom Frequency Hopping Sequence 17
3.5.2 Coordination of hopping sequences to other transmitters 17
3.5.3 System Receiver Hopping Capability 17
3.6 TIME OF OCCUPANCY (DWELL TIME) 18
3.7 20DB BANDWIDTH 21
3.7.1 System Receiver Input Bandwidth 22
3.8 BAND-EDGE COMPLIANCE OF RF EMISSIONS 23
3.9 RADIATED EMISSIONS FROM DIGITAL PART 26
3.10 POWER LINE CONDUCTED EMISSION 27

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 is 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:

Date	WTS-Lab.	Name	Signature
March 26, 2025		Ken Kang	Ken Kang

Technical responsibility for area of testing:

Date	WTS	Name	Signature
March 26, 2025		Kevin Wang	Kevin Wang

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.)

1.4 Application details

Date of receipt of test item:	March 03, 2025
Date of test:	from March 04, 2025 to March 19, 2025

1.5 General information of Test item

Type of test item: Carbon Monoxide Detector
Model number: CO-15
Multi-listing model number: ./.
Sample no.: #01

Technical data

Frequency band: 918.0375-924.48 MHz

Mode	Frequency (MHz)	Power (dBm)
900M	918.0375	11.99
	924.48	11.56

Power supply: Battery 4.5 Vd.c. (AA*3)
Operation modes: Duplex
Modulation type: FSK
Antenna type: Monopole antenna
Antenna gain: 0.64 dBi
Host device: none
Classification:

Fixed Device	☒
Mobile Device (Human Body distance ＞ 20cm)	☐
Portable Device (Human Body distance ＜ 20cm)	☐
Modular Radio Device	☐

Manufacturer: (if applicable)

Name: ./.
Street: ./.
Town: ./.
Country: ./.

1.6 Test standards

47 CFR PART 15 SUBPART C § 15.247 (2023-10)

1.7 Test procedure

ANSI C63.10:2013

Registration number: W6M22503-24195-C-1
FCC ID: GX9CO15F1919

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

Details of power supply: Battery 4.5 Vd.c. (AA*3)

Extreme conditions parameters: test voltage : -- extreme
min : -- V
max : -- V

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission (Power Line Conducted Emission)	Expanded Uncertainty： AMN：0.94 dB Voltage probe：1.21 dB Include Pulse Limiter：1.5 dB
Estimation Result of Uncertainty of Radiated Emission(3M) (Transmitter Radiated Emissions in restricted Bands, Spurious emissions (tx), Radiated Emissions from Receiver Part)	Expanded Uncertainty： 0.009-30 MHz：1.85 dB 30-1000 MHz：3.92 dB 1-18 GHz：3.19 dB 18-40 GHz：1.90 dB
Estimation Result of Uncertainty of Bandwidth Measurement (20 dB Bandwidth)	Expanded Uncertainty：0.37 kHz
Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Output Power (transmitter))	Expanded Uncertainty：1.63 dB
Estimation Result of Uncertainty of Band Edge Measurement (Band-edge Compliance of RF Emissions)	Expanded Uncertainty：0.63 dBc
Estimation Result of Uncertainty of Frequency Separation Measurement (Carrier Frequency Separation, Number of Hopping Frequencies)	Expanded Uncertainty：554.14 Hz
Estimation Result of Uncertainty of Duty Cycle Measurement (Time of Occupancy (Dwell Time))	Expanded Uncertainty：0.18 ms

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

2.3 Test Equipment List

MaxOutput Power&20DB BANDWIDTH&BANDEDGE&
FREQUENCY SEPARATION&NUMBER OF HOPPING&DWELL TIME

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2025/3/5	2026/3/4
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 （S_Cable 9）	279067	HUBER+SUHNER	2025/2/14	2026/2/13

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2024/9/11	2025/9/10
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2025/2/14	2025/4/9
ETSTW-RE 160	Amplifier Module	CHC 3	None	WTS	2024/7/12	2025/7/11
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168 &EMCI-N-6-06	01380&AT-06007	SCHWARZBECK&EMC	2025/3/10	2026/3/9
ETSTW-RE 178	Double Ridged Guide Horn Antenna	DRH18-E	210505A18ES	RFSPIN	2025/3/7	2026/3/6
ETSTW-Cable 077	SMA type cable (10m)	EMC104-SM-SM-10000	230511	EMCI	2024/7/12	2025/7/11
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2024/7/12	2025/7/11
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2024/7/12	2025/7/11
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.10-2013 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 according to ANSI STANDARD C63.10-2013 6.3 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient. temperature of the UUT was 23°C with a humidity of 40 %.

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
33	20 dBμV + 10.36 dB + 6 dB = 36.36 dBμV/m @3m

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.10-2013 6.2.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
(4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

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.

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, 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.

The formula is as follows:
Average = Peak + Duty Factor
Duty Factor = 20 log (dwell time/T)
T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANSI STANDARD C63.10-2013 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.

3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	☒	☒	☐
Equivalent radiated Power	15.247(b)	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.247(d):15.209	☒	☒	☐
Spurious Emissions conducted – Transmitter operating	15.247	☐	☐	☐
Carrier Frequency Separation	15.247(a) (1)	☒	☒	☐
Number of Hopping Frequencies	15.247(a) (1)(i)	☒	☒	☐
Time of Occupancy (Dwell Time)	15.247(a) (1)(i)	☒	☒	☐
20 dB Bandwidth	15.247(a) (1)(i)	☒	☒	☐
Band-edge Compliance of RF Emission	15.247(d)	☒	☒	☐
Radiated Emission from Digital Part	15.109	☐	☐	☐
Power Line Conducted Emission	15.207(a)	☐	☐	☐

The follows is intended to leave blank.

3.1 Peak Output Power (transmitter)

FCC Rule: 15.247

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).

Test date: March 18, 2025
Temperature: 21.7 ˚C
Humidity: 56 %
Tester: Ken

Band	Channel	Power (dBm)	Limit (dBm)
900M	918.0375 MHz	11.99	30
	924.48 MHz	11.56	30

Limits:

Frequency (MHz)	Number of hopping channels			
	≥ 75	≥ 50	49 ≥ 25	74 ≥ 15
902-928	--	30 dBm	24 dBm	--
2400-2483.5 MHz	30 dBm	--	--	21 dBm
5725-5850 MHz	30 dBm	--	--	--

In case of employing transmitter antennas having antenna gain >dBi and using fixed poin-to point operation consider §15.247 (b)(4).

3.2 Transmitter Radiated Emissions in restricted Bands

FCC Rules: 15.247 (d), 15.205, 15.209, 15.35
Radiated emission measurements were performed from 30 MHz to 26000 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 FHSS Systems:
"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." Here the correction was added to the limit instead subtracted from the reading.

Duty cycle correction = 20 log (dwell time/100ms)

For frequencies above 1GHz (Average measurements).

Limit – duty cycle correction

No duty cycle correction was added to the reading.

54.0dBμV/m

For frequencies above 1GHz (Peak measurements).

Limit + 20dB

54.0dBμV/m + 20 dB= 74 dBμV/m

Explanation: See attached diagrams in appendix.

3.3 Spurious emissions (tx)

Spurious emission was measured with modulation (declared by manufacturer).
In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions 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.

If in the column‘s correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the “Marker-Delta-Method“ or the „Duty-Cycle Correction Factor“.

Summary table with radiated data of the test plots

Model: CO-15 Date: --
Mode: -- Temperature: -- °C Engineer: --
Polarization: -- Humidity: -- %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result (dBuV/m) Peak	Result (dBuV/m) Ave.	Limit (dBuV/m) Peak	Limit (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

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. **After evaluated, the test result in this report adopt the worst case to measure, please see attached diagrams in appendix.**

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

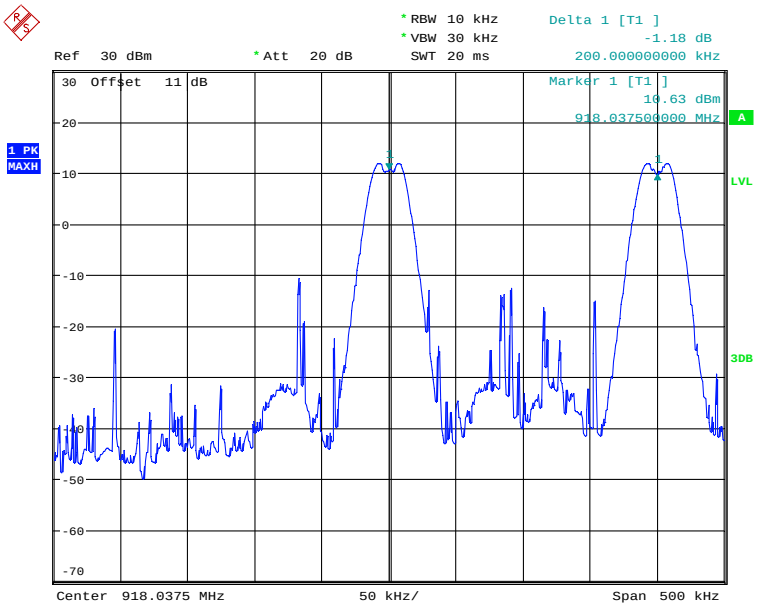
TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.

3.4 Carrier Frequency Separation

Carrier Frequency Separation was measured with modulation (declared by manufacturer).

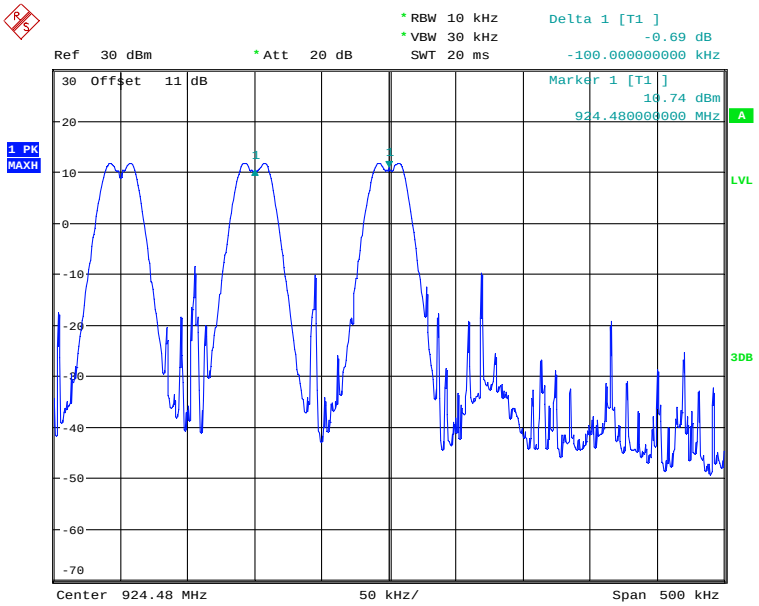
According to FCC rules part 15 subpart C §15.247 frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or 20 dB bandwidth of the hopping channel, whichever is greater.

Test date: March 18, 2025
Temperature: 21.7 ˚C
Humidity: 56 %
Tester: Ken



FREQUENCY SEPARATION 918.0375MHZ
Date: 18.MAR.2025 17:31:21

Registration number: W6M22503-24195-C-1
FCC ID: GX9CO15F1919



FREQUENCY SEPARATION 924.48MHZ
Date: 18.MAR.2025 17:33:51

Limits:

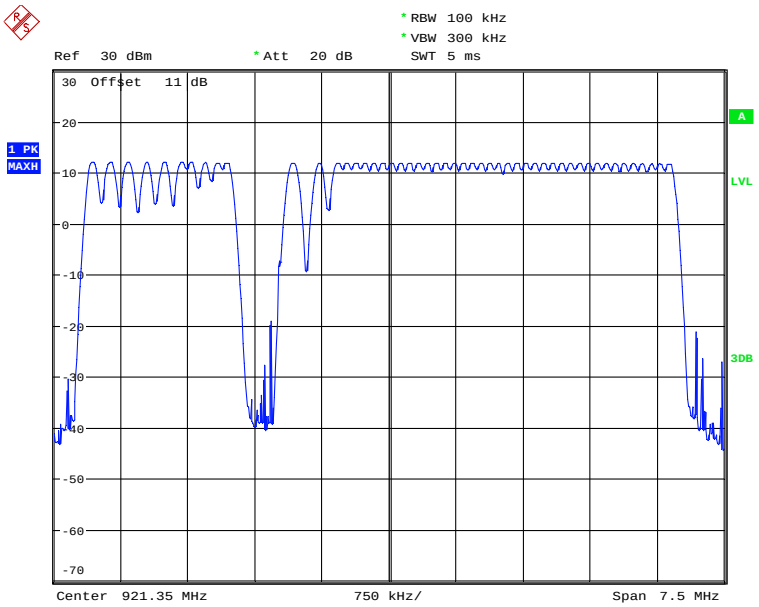
Frequency (MHz)	20 dB bandwidth < 25 kHz	20 dB bandwidth > 25 kHz
902-928	25 kHz	20 dB bandwidth
2400-2483.5 5725-5850.0	25 kHz	20 dB bandwidth

3.5 Number of Hopping Frequencies

According to FCC rules part 15 subpart C §15.247 frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies. Frequency hopping systems in 5725-5850 MHz bands shall use least 75 hopping frequencies.

For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20dB bandwidth of the hopping channel 250 kHz or greater, the system shall use at least 25 hopping frequencies.

Test date: March 18, 2025
Temperature: 21.7 ˚C
Humidity: 56 %
Tester: Ken



Limits:

Frequency (MHz)	20dB Bandwidth	Number of Channels
902-928 MHz	Bandwidth < 250 kHz	≥ 50
	Bandwidth ≥ 250 kHz	≥ 25
2400-2483.5	not defined	15
5725-5850.0 MHz	1 MHz	75

3.5.1 Pseudorandom Frequency Hopping Sequence

The generation of the hopping sequence is determined by the Bluetooth core specification and complies with the FCC requirements.

3.5.2 Coordination of hopping sequences to other transmitters

According to the Bluetooth core specification such a coordination is not possible. During scatternet function only one of the two hopping sequences will be used at a definite moment.

3.5.3 System Receiver Hopping Capability

According to the Bluetooth core specification. The system receivers shift frequencies in synchronization with the transmitted signals.

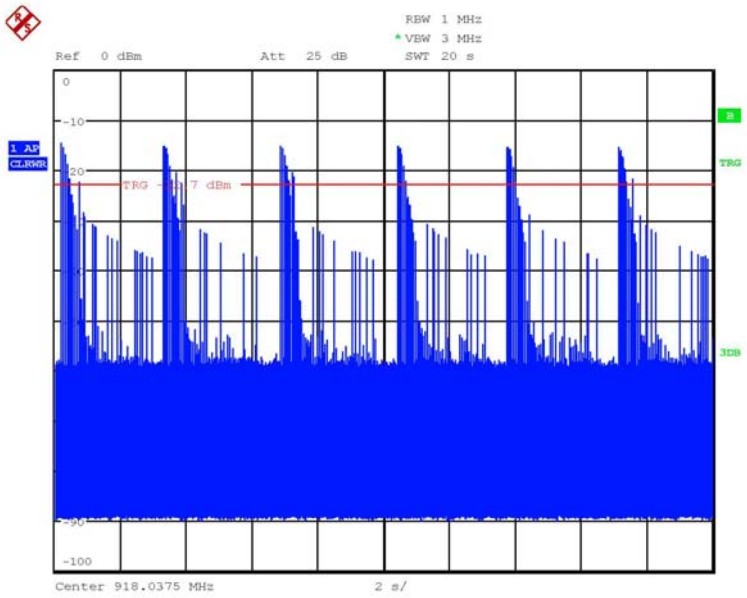
3.6 Time of Occupancy (Dwell Time)

Frequency hopping systems operating in the 5725-5850 MHz band shall use an average time of occupancy on any frequency not greater than 0.4 seconds within a 30 second period.

In 2400-2483.5 MHz band the average time of occupancy on any channel shall not be greater than 0.4 seconds multiplied by the number of hopping channels employed.

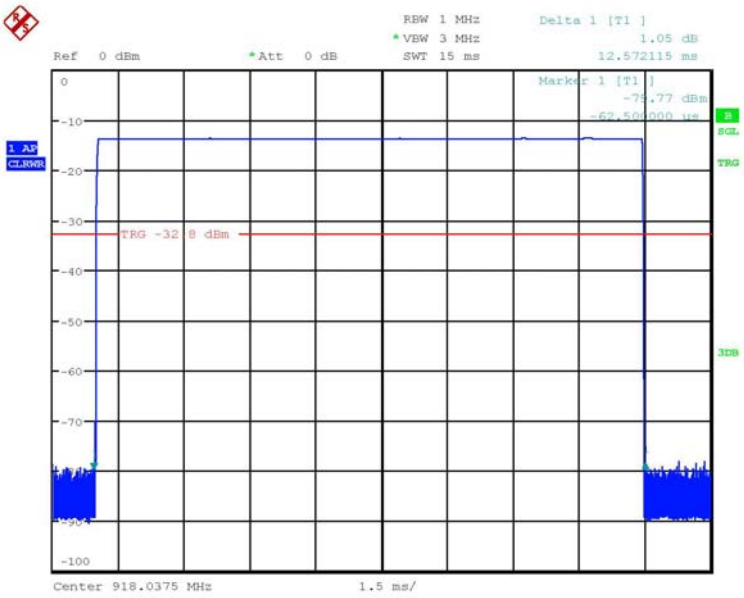
For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not greater than 0.4 seconds within a 20 second period; if the 20dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

Test date: March 10, 2025
Temperature: 22.6 ˚C
Humidity: 59.7 %
Tester: Ken

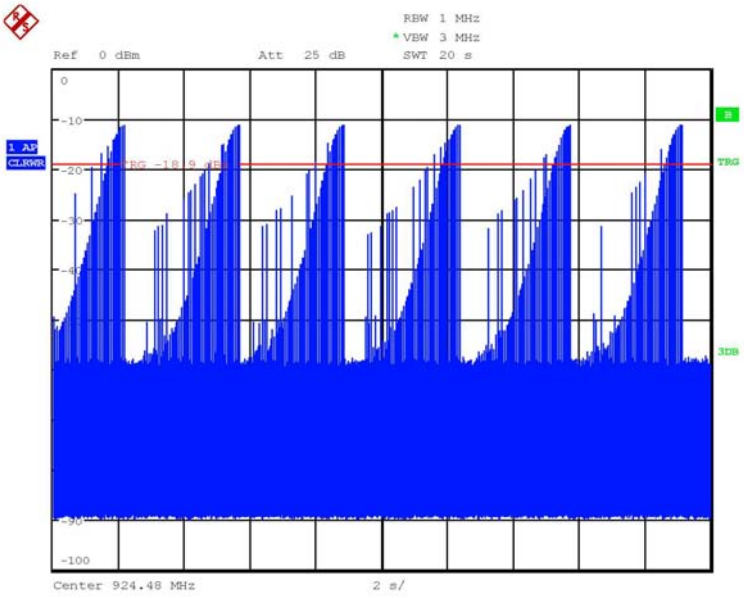


DWELL TIME 918.0375MZ
Date: 10.MAR.2025 11:12:25

Registration number: W6M22503-24195-C-1
FCC ID: GX9CO15F1919

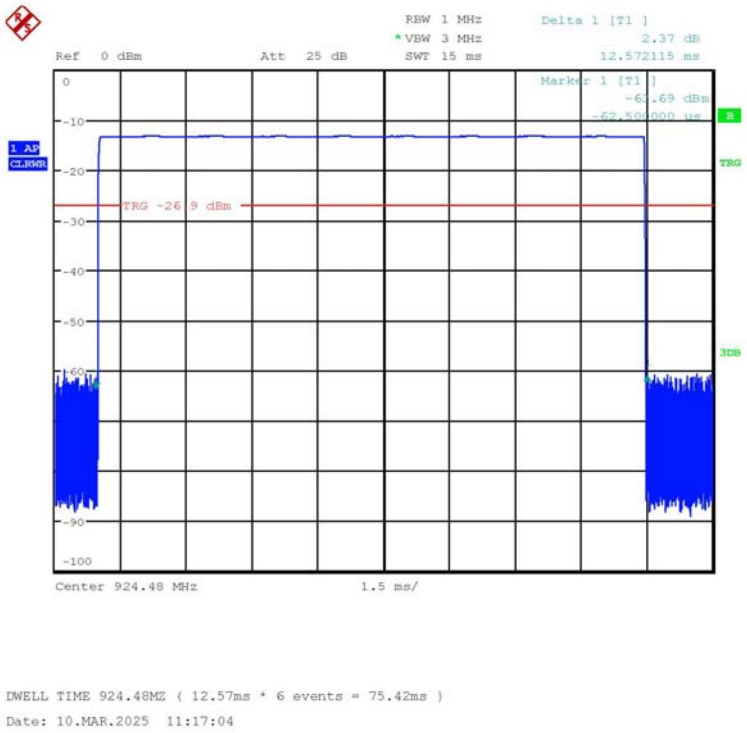


DWELL TIME 918.0375MZ (12.57ms * 6 events = 75.42ms)
Date: 10.MAR.2025 11:19:31



DWELL TIME 924.48MZ
Date: 10.MAR.2025 11:14:52

Registration number: W6M22503-24195-C-1
FCC ID: GX9CO15F1919



Limits and measurement periods:

Frequency (MHz)	Number of channels	Measurement Periode	Limit
902 – 928	≥50	20 s	0.4 s
	49 ≥ 25	10 s	0.4 s
2400 – 2483.5	≥ 15	0.4 s * number of used channels	0.4 s
5725- 5850	≥ 75	30 s	0.4s

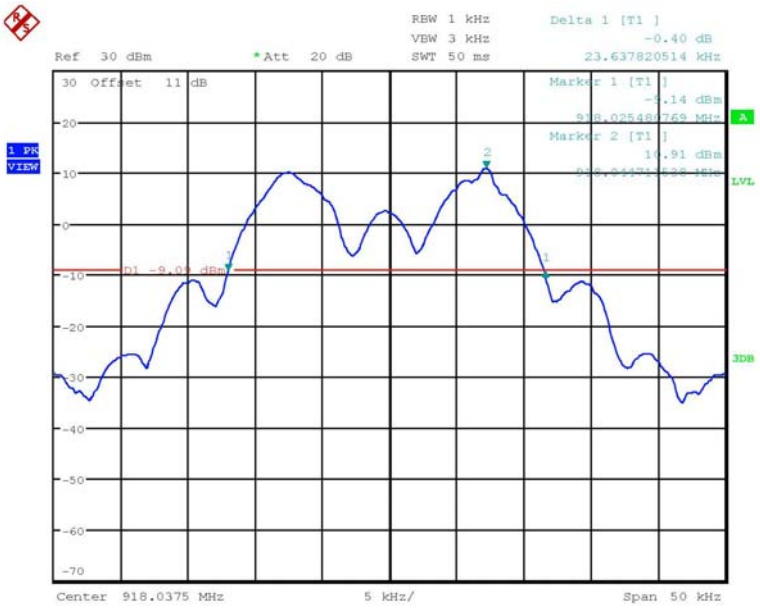
Registration number: W6M22503-24195-C-1
FCC ID: GX9CO15F1919

3.7 20dB Bandwidth

Frequency hopping systems operating in the 5725-5850 MHz bands shall use a maximum 20dB bandwidth of 1 MHz.
The 20dB bandwidth is measured on the lowest, middle and highest hopping channel.

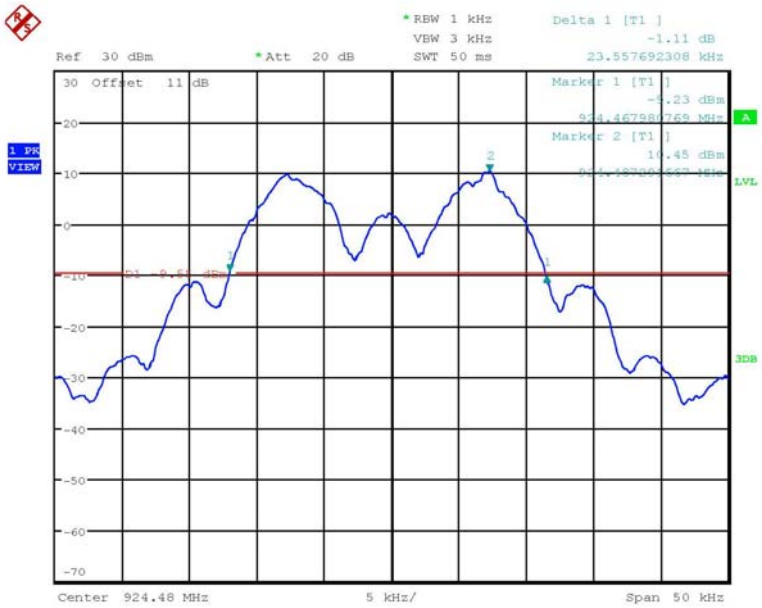
For frequency hopping systems operating in the 902-928 MHz band the maximum 20dB bandwidth of the hopping channel is 500 kHz.

Test date: March 18, 2025
Temperature: 21.7 ˚C
Humidity: 56 %
Tester: Ken



20DB BANDWIDTH 918.0375MHZ
Date: 18.MAR.2025 17:12:40

Registration number: W6M22503-24195-C-1
FCC ID: GX9CO15F1919



20DB BANDWIDTH 924.48MHZ
Date: 18.MAR.2025 17:19:44

Limits:

Frequency (MHz)	Limit
902-928	≤ 500 kHz
2400-2483.5	not defined
5725-5850	≤ 1 MHz

3.7.1 System Receiver Input Bandwidth

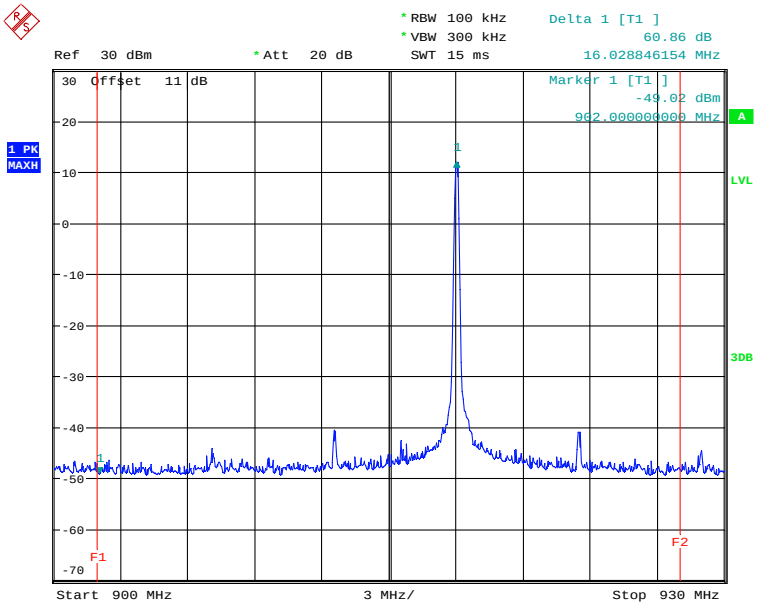
It is determined in the Bluetooth core specification. The value matches to the bandwidth of transmitter signal.

3.8 Band-edge Compliance of RF Emissions

According to FCC rules part 15 subpart C §15.247(c) in any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required.

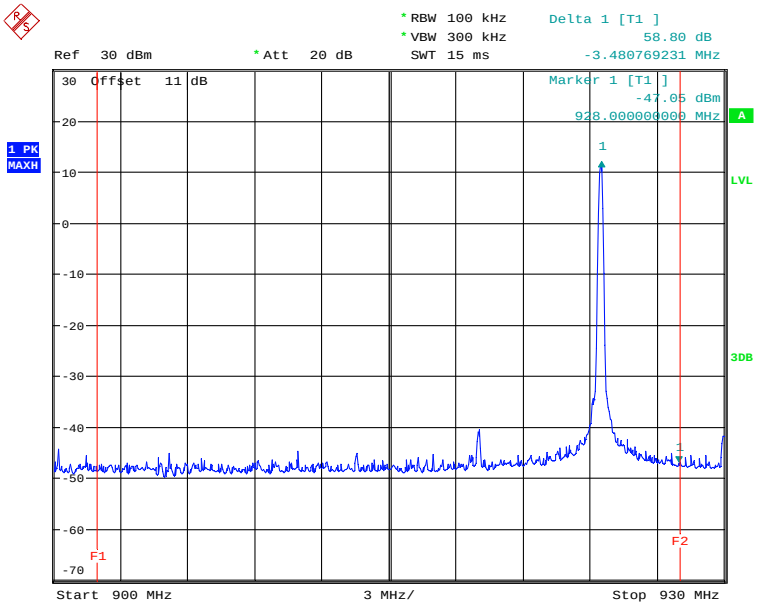
In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

Test date: March 18, 2025
Temperature: 21.7 ˚C
Humidity: 56 %
Tester: Ken

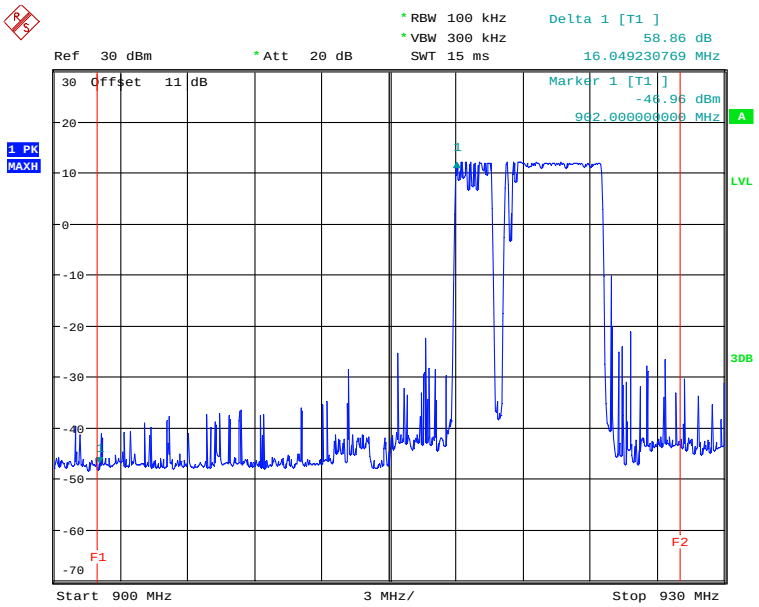


BANDEDGE 918.0375MHZ
Date: 18.MAR.2025 17:15:26

Registration number: W6M22503-24195-C-1
FCC ID: GX9CO15F1919

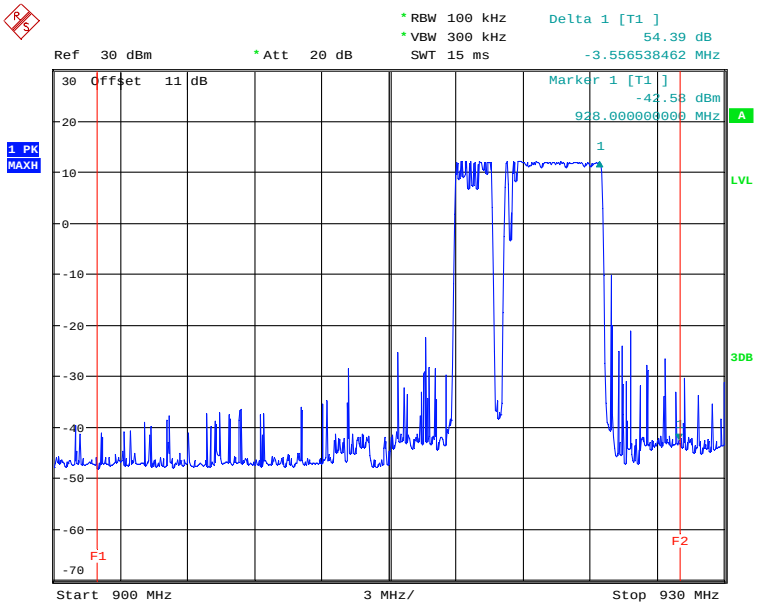


BANDEDGE 924.48MHZ
Date: 18.MAR.2025 17:17:22



BANDEDGE 918.0375MHZ HOPPING MODE
Date: 18.MAR.2025 17:25:10

Registration number: W6M22503-24195-C-1
FCC ID: GX9CO15F1919



Limits:

Frequency (MHz)	Limit
902 –928 2400 – 2483.5 5725 - 5850	- 20 dB

3.9 Radiated Emissions from Digital Part

FCC Rule: 15.109

Summary table with radiated data of the test plots

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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

Explanation: The test results are listed in the separated test report no.: W6M22503-24195-P-15B.

3.10 Power Line Conducted Emission

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.

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.**
6. **This test is not required because the EUT is powered by battery.**

Appendix

Measurement diagrams

Spurious Emissions radiated

TX

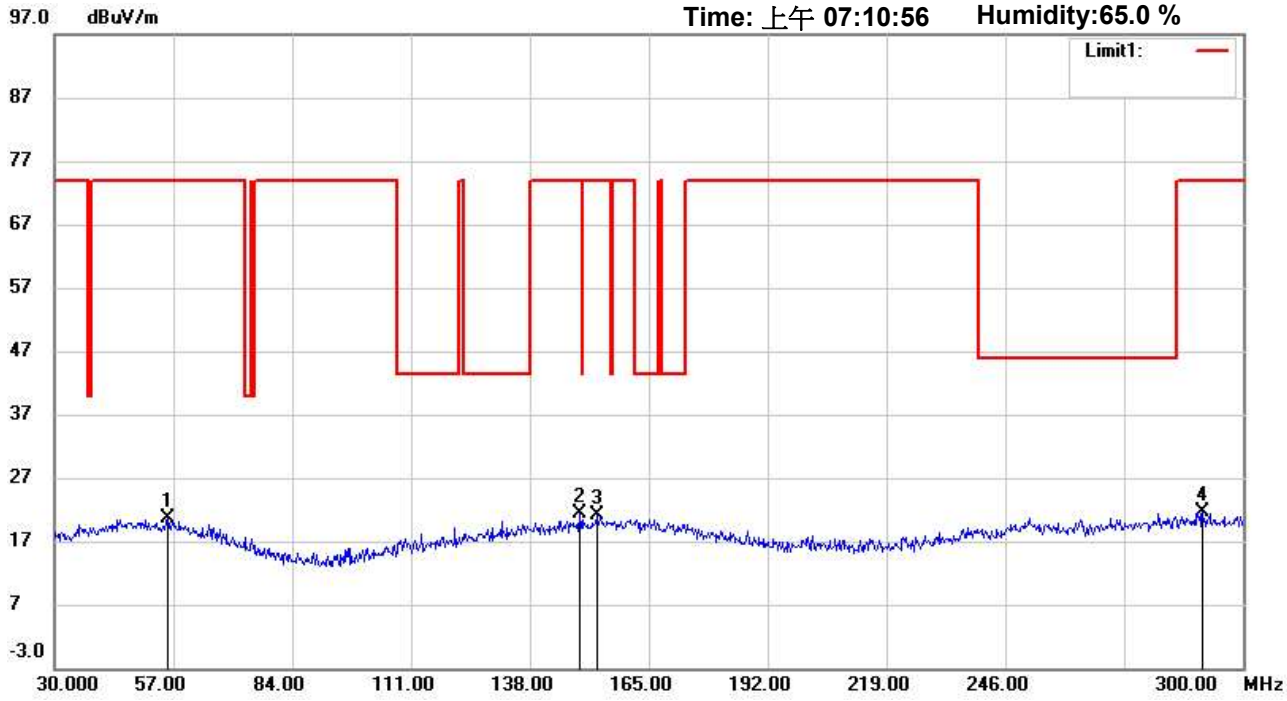
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :1 Data :#1 Date: 2025/3/12 Time: 上午 07:10:56

Temperature:23.7 ℃
Humidity:65.0 %



Site : 966A Chamber
Condition : FCC Restriction Band 30-300
EUT : W6M22503-24195
M/N:
Test Mode : TX 918.0375 MHz
Note :

Polarization: *Horizontal*
Power : 4.5 Vd.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
	55.6500	33.26	peak	-12.75	20.51	74.00	100	280	-53.49	
	149.3400	33.72	peak	-12.25	21.47	74.00	100	196	-52.53	
	153.1200	33.26	peak	-12.20	21.06	74.00	100	32	-52.94	
*	290.8200	33.99	peak	-12.33	21.66	74.00	100	105	-52.34	

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

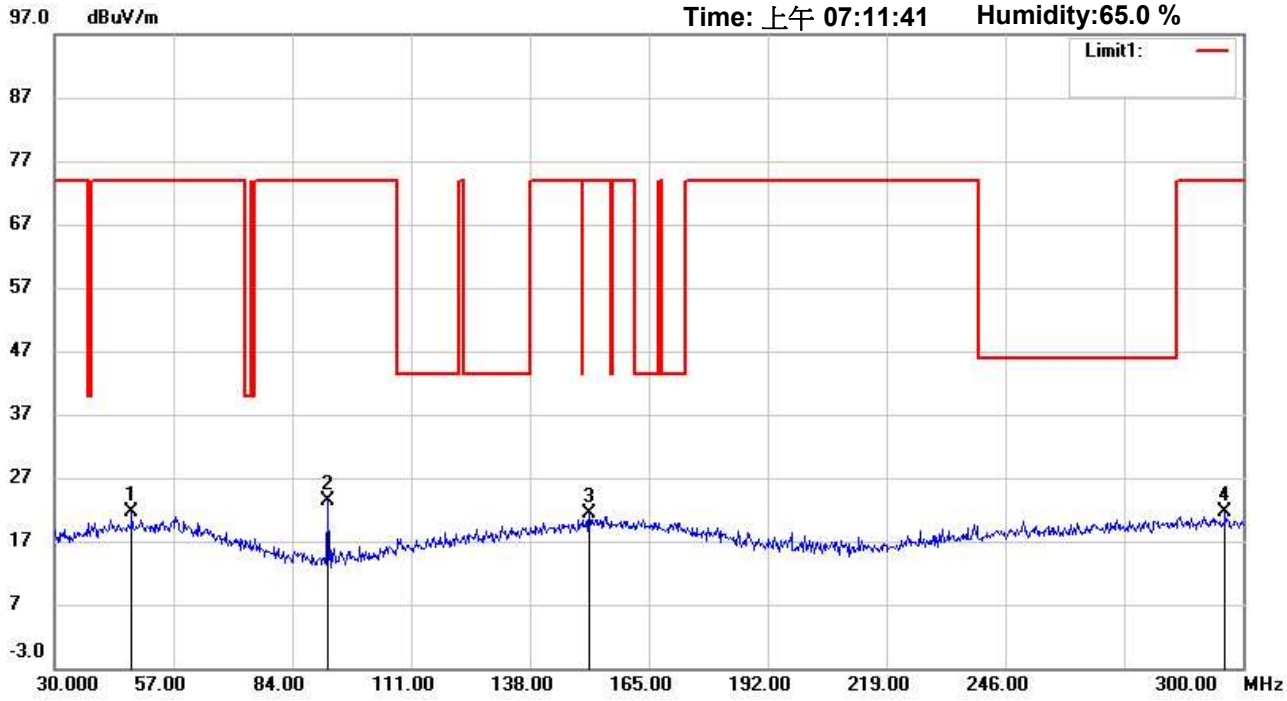
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :1 Data :#2 Date: 2025/3/12 Time: 上午 07:11:41

Temperature:23.7 ℃
Humidity:65.0 %



Site : 966A Chamber
Condition : FCC Restriction Band 30-300
EUT : W6M22503-24195
M/N:
Test Mode : TX 918.0375 MHz
Note :

Polarization: *Vertical*
Power : 4.5 Vd.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
	47.5500	34.37	peak	-12.78	21.59	74.00	100	156	-52.41	
*	92.1000	41.69	peak	-18.33	23.36	74.00	100	221	-50.64	
	151.5000	33.46	peak	-12.20	21.26	74.00	100	280	-52.74	
	295.9500	33.84	peak	-12.23	21.61	74.00	100	199	-52.39	

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

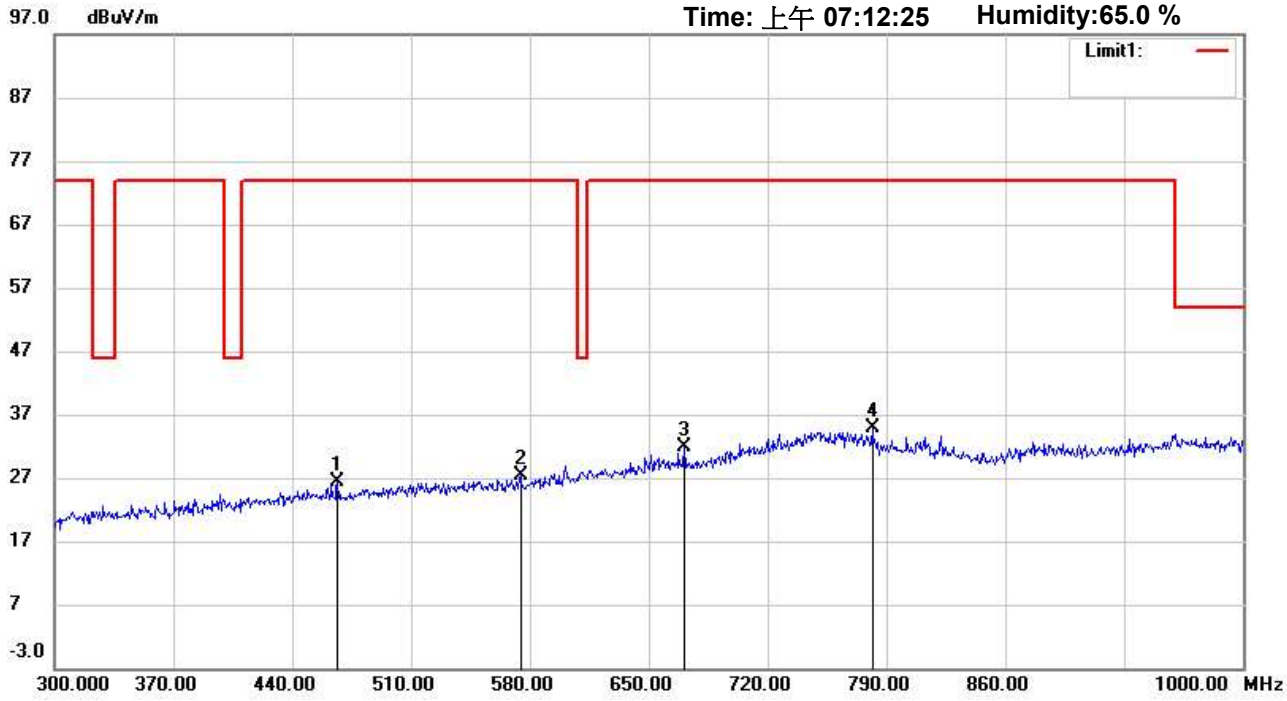
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :1 Data :#3 Date: 2025/3/12 Time: 上午 07:12:25

Temperature:23.7 ℃
Humidity:65.0 %



Site : 966A Chamber
Condition : FCC Restriction Band 300-1000
EUT : W6M22503-24195
M/N:
Test Mode : TX 918.0375 MHz
Note :

Polarization: *Horizontal*
Power : 4.5 Vd.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
	466.6000	34.36	peak	-8.06	26.30	74.00	100	225	-47.70	
	574.4000	33.24	peak	-5.85	27.39	74.00	100	151	-46.61	
	671.0000	35.77	peak	-3.90	31.87	74.00	100	169	-42.13	
*	781.6000	36.81	peak	-2.03	34.78	74.00	100	298	-39.22	

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

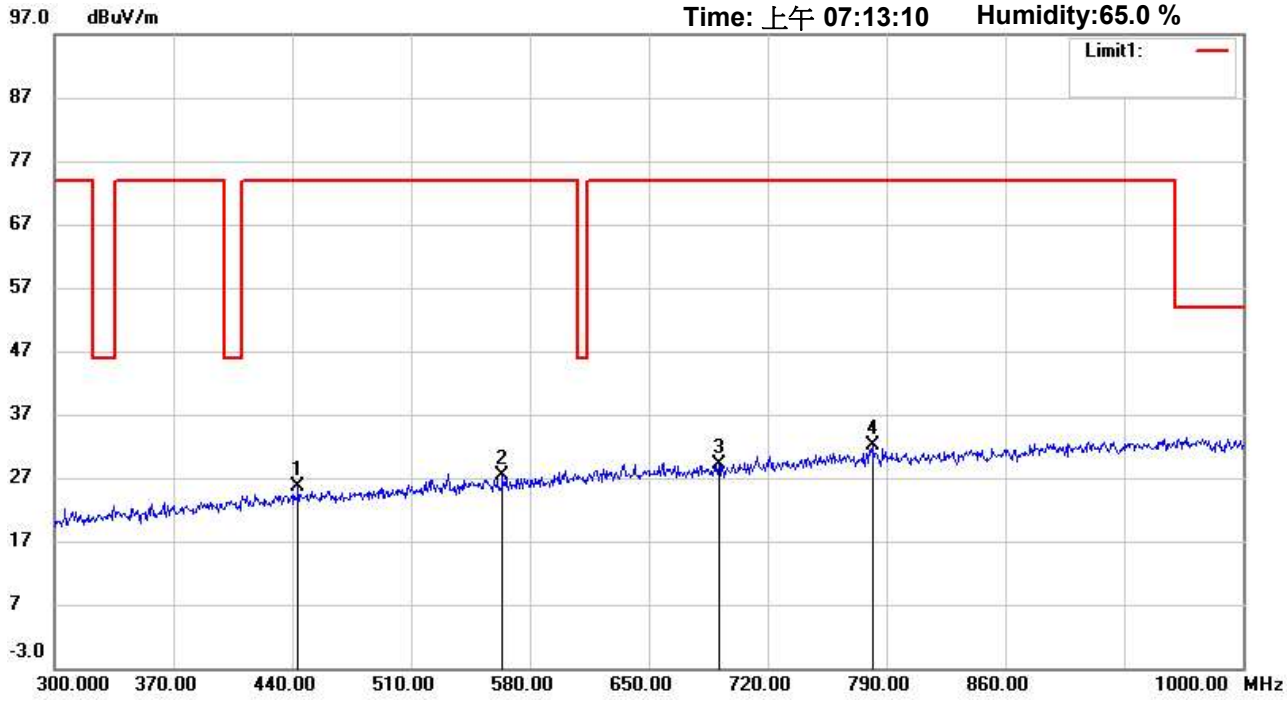
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :1 Data :#4 Date: 2025/3/12 Time: 上午 07:13:10

Temperature:23.7 ℃
Humidity:65.0 %



Site : 966A Chamber
Condition : FCC Restriction Band 300-1000
EUT : W6M22503-24195
M/N:
Test Mode : TX 918.0375 MHz
Note :

Polarization: *Vertical*
Power : 4.5 Vd.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
	443.5000	34.05	peak	-8.52	25.53	74.00	100	156	-48.47	
	563.9000	33.77	peak	-6.28	27.49	74.00	100	230	-46.51	
	691.3000	32.68	peak	-3.61	29.07	74.00	100	174	-44.93	
*	781.6000	34.10	peak	-2.03	32.07	74.00	100	118	-41.93	

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

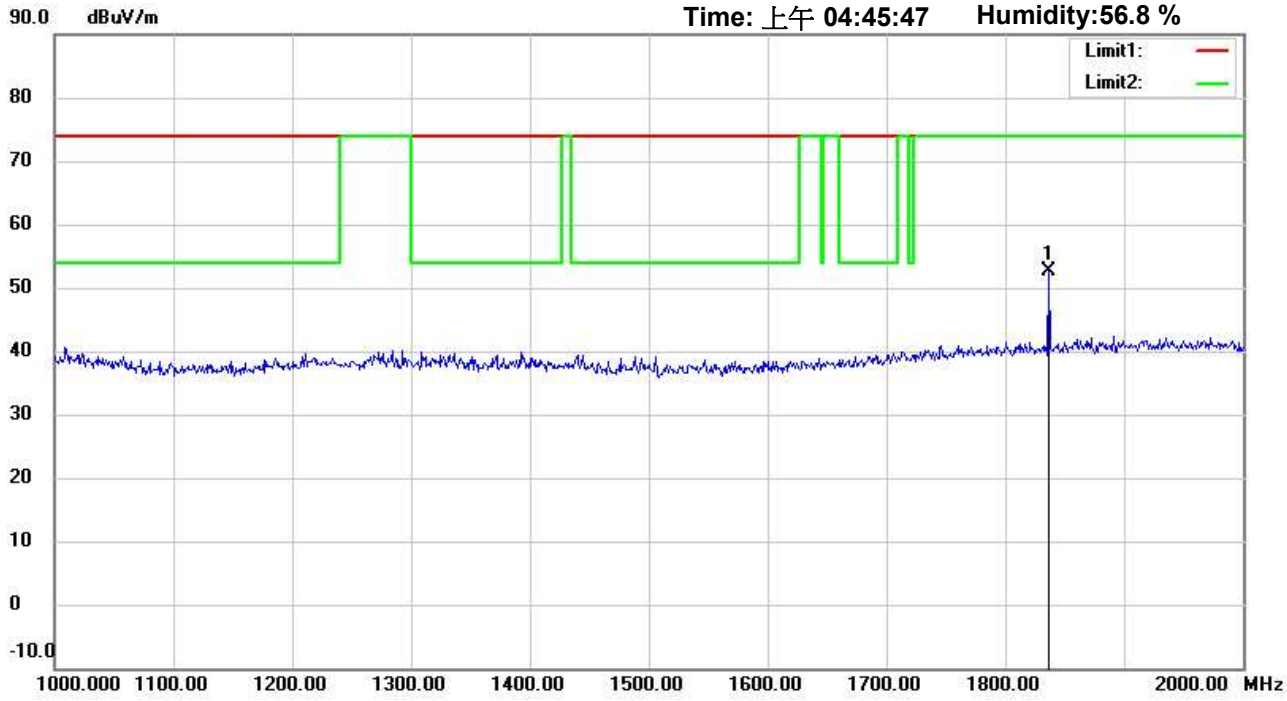
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#1 Date: 2025/3/13 Time: 上午 04:45:47

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22503-24195
M/N:
Test Mode : TX 918.0375 MHz
Note :

Polarization: *Horizontal*
Power : 4.5 Vd.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
*	1837.000	53.45	peak	-0.85	52.60	74.00	150	112	-21.40	

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

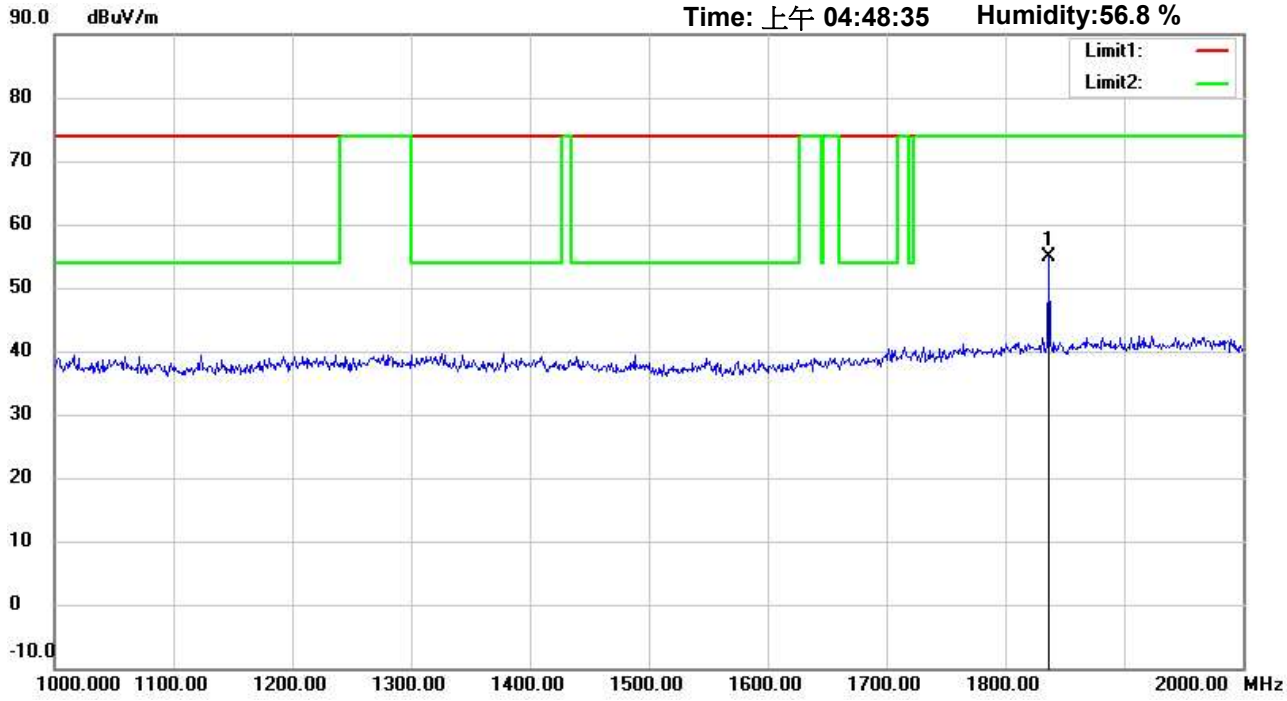
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#5 Date: 2025/3/13 Time: 上午 04:48:35

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22503-24195
M/N:
Test Mode : TX 918.0375 MHz
Note :

Polarization: *Vertical*
Power : 4.5 Vd.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
*	1837.000	55.67	peak	-0.85	54.82	74.00	150	63	-19.18	

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

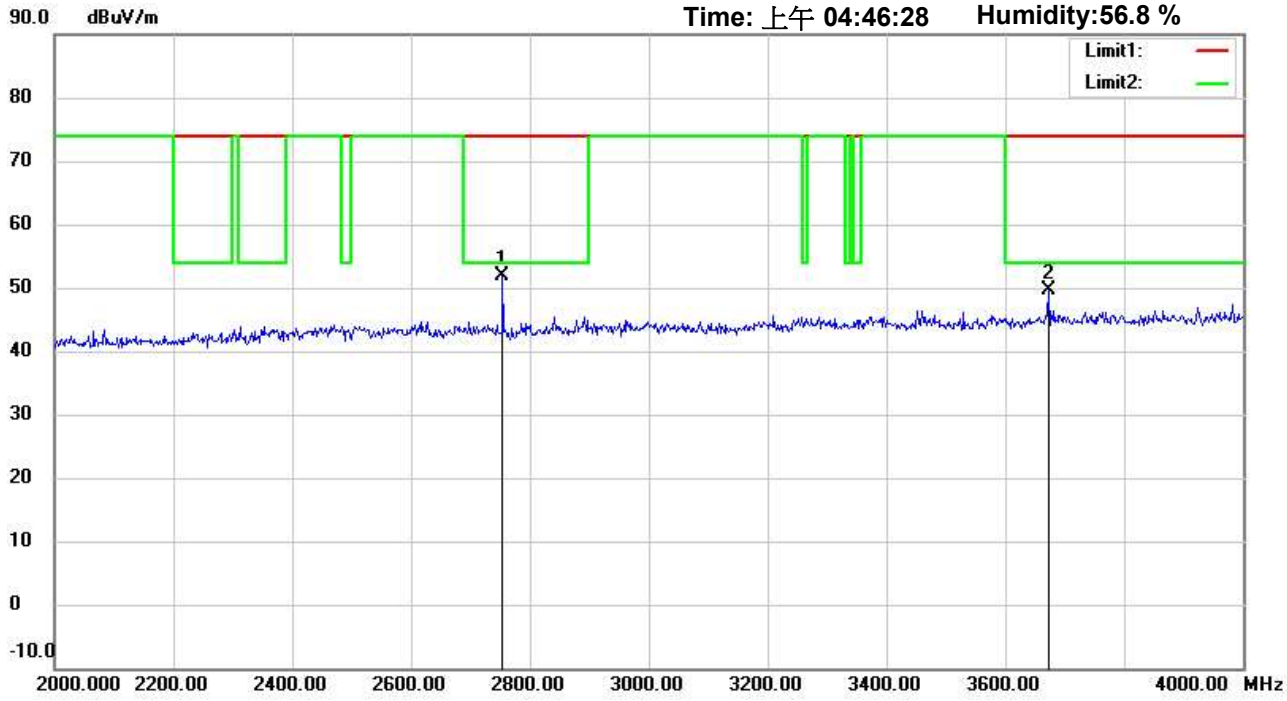
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#2 Date: 2025/3/13 Time: 上午 04:46:28

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22503-24195

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 918.0375 MHz

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
*	2754.000	50.20	peak	1.80	52.00	74.00	150	91	-22.00	
	3672.000	45.99	peak	3.56	49.55	74.00	150	150	-24.45	

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

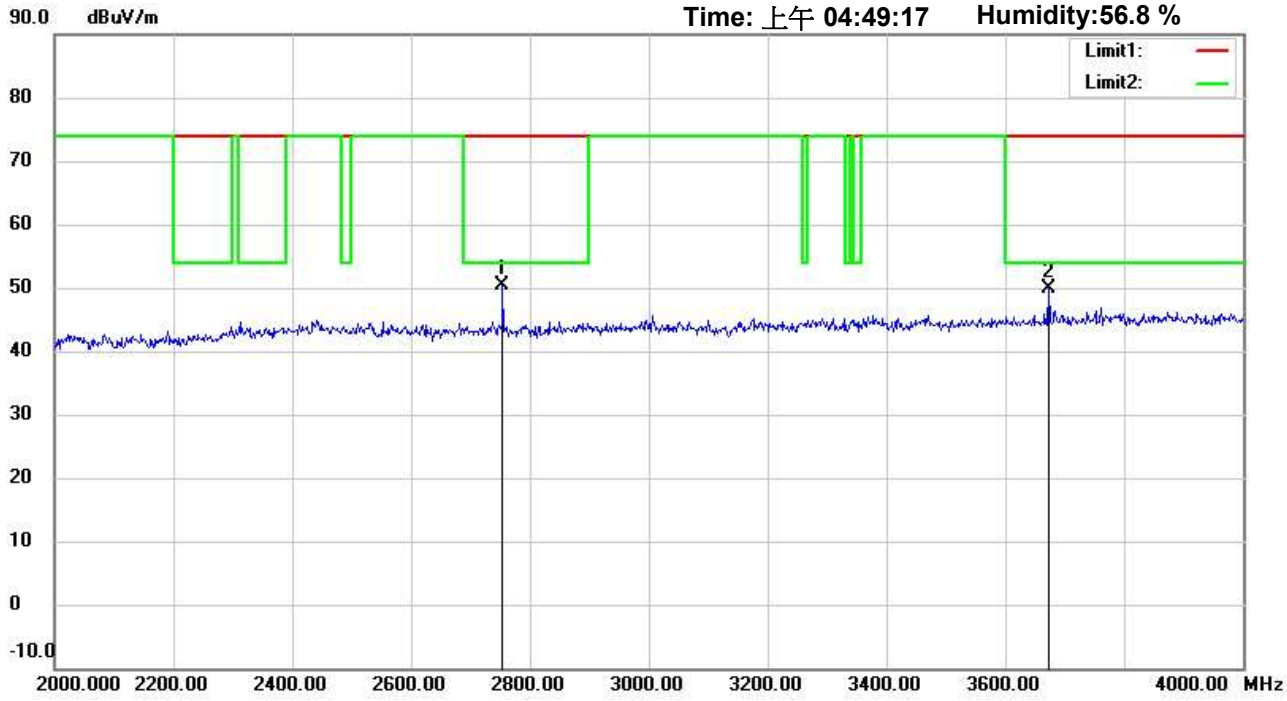
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#6 Date: 2025/3/13 Time: 上午 04:49:17

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22503-24195
M/N:
Test Mode : TX 918.0375 MHz
Note :

Polarization: *Vertical*
Power : 4.5 Vd.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
*	2754.000	48.70	peak	1.80	50.50	74.00	150	98	-23.50	
	3672.000	46.36	peak	3.56	49.92	74.00	150	120	-24.08	

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

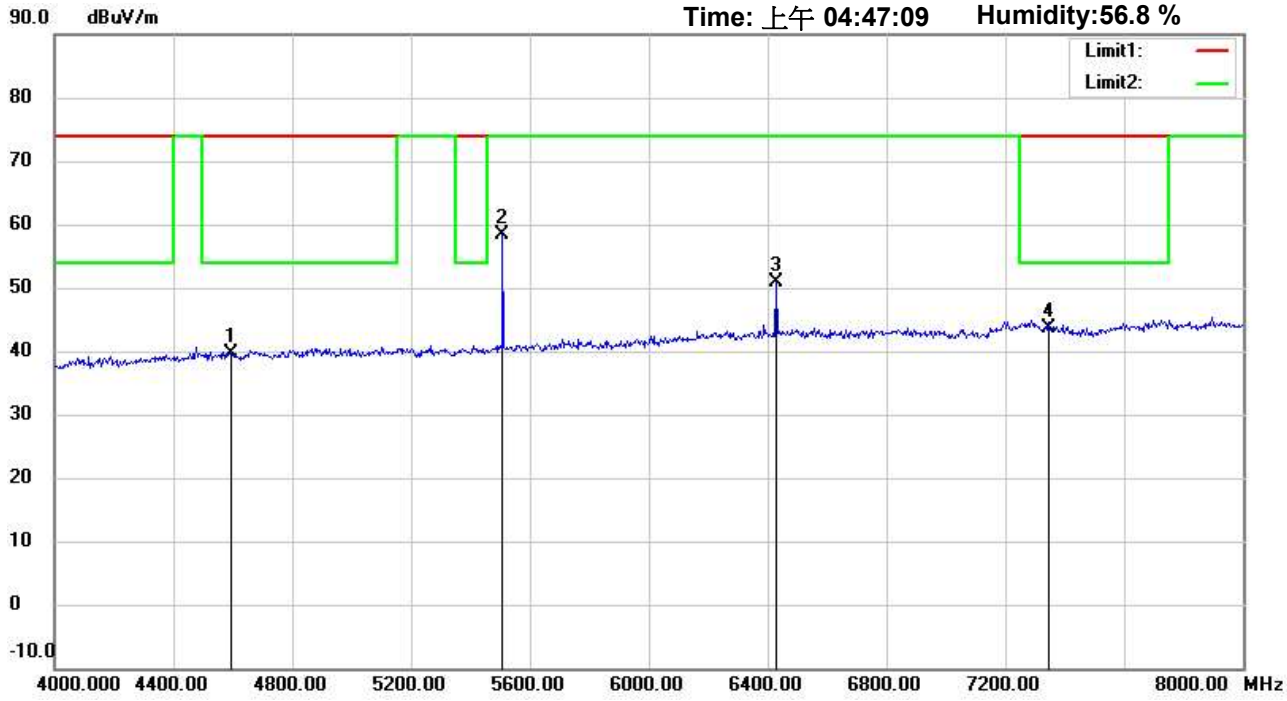
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#3 Date: 2025/3/13 Time: 上午 04:47:09

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22503-24195

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 918.0375 MHz

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
	4590.188	33.41	peak	6.31	39.72	74.00	150	26	-34.28	
*	5508.000	50.60	peak	7.75	58.35	74.00	150	188	-15.65	
	6428.000	40.74	peak	10.02	50.76	74.00	150	350	-23.24	
	7344.300	33.04	peak	10.51	43.55	74.00	150	154	-30.45	

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

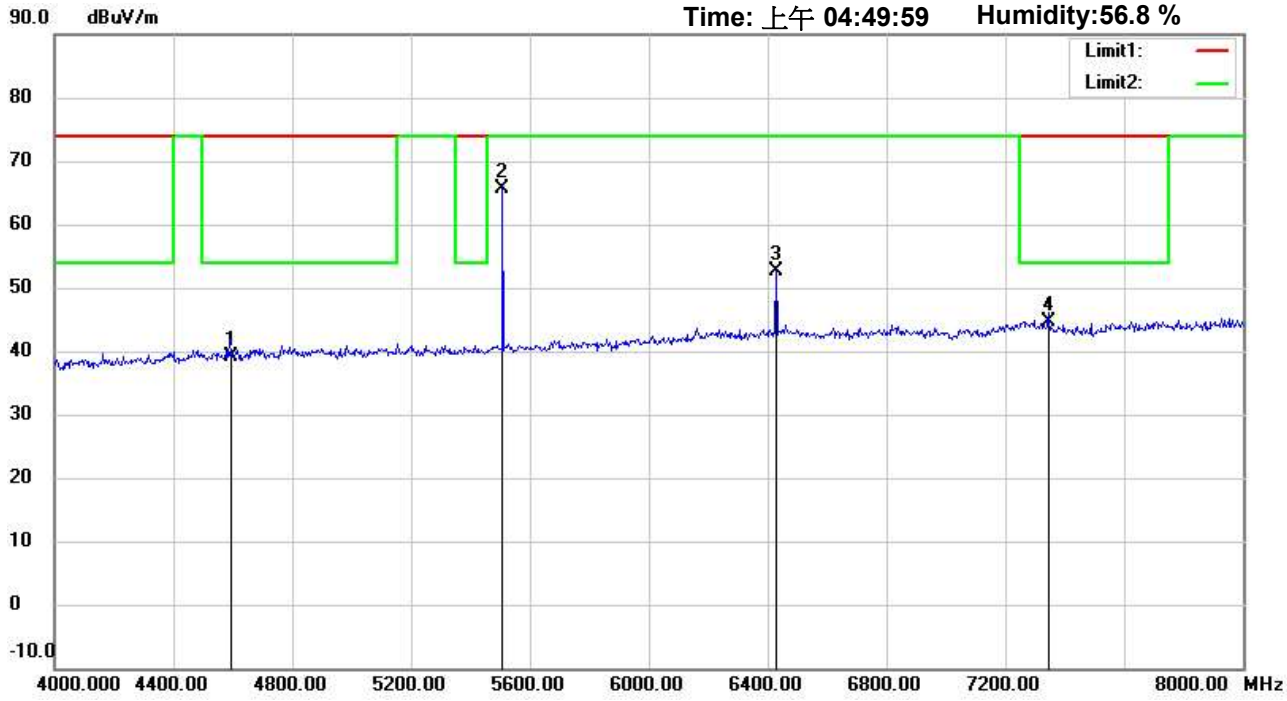
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#7 Date: 2025/3/13 Time: 上午 04:49:59

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22503-24195

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 918.0375 MHz

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
	4590.188	32.80	peak	6.31	39.11	74.00	150	54	-34.89	
*	5508.000	57.76	peak	7.75	65.51	74.00	150	160	-8.49	
	6428.000	42.55	peak	10.02	52.57	74.00	150	87	-21.43	
	7344.300	34.13	peak	10.51	44.64	74.00	150	123	-29.36	

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

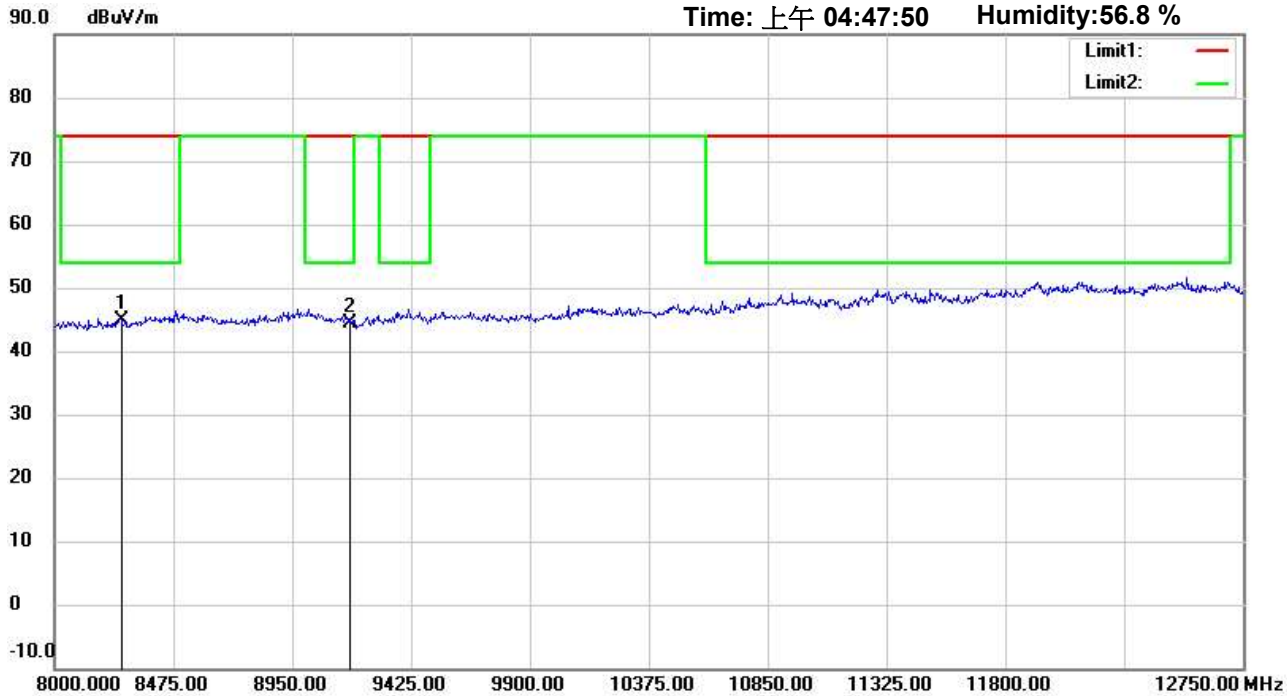
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#4 Date: 2025/3/13 Time: 上午 04:47:50

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22503-24195
M/N:
Test Mode : TX 918.0375 MHz
Note :

Polarization: *Horizontal*
Power : 4.5 Vd.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
*	8262.337	33.06	peak	11.80	44.86	74.00	150	310	-29.14	
	9180.375	32.52	peak	11.92	44.44	74.00	150	359	-29.56	

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

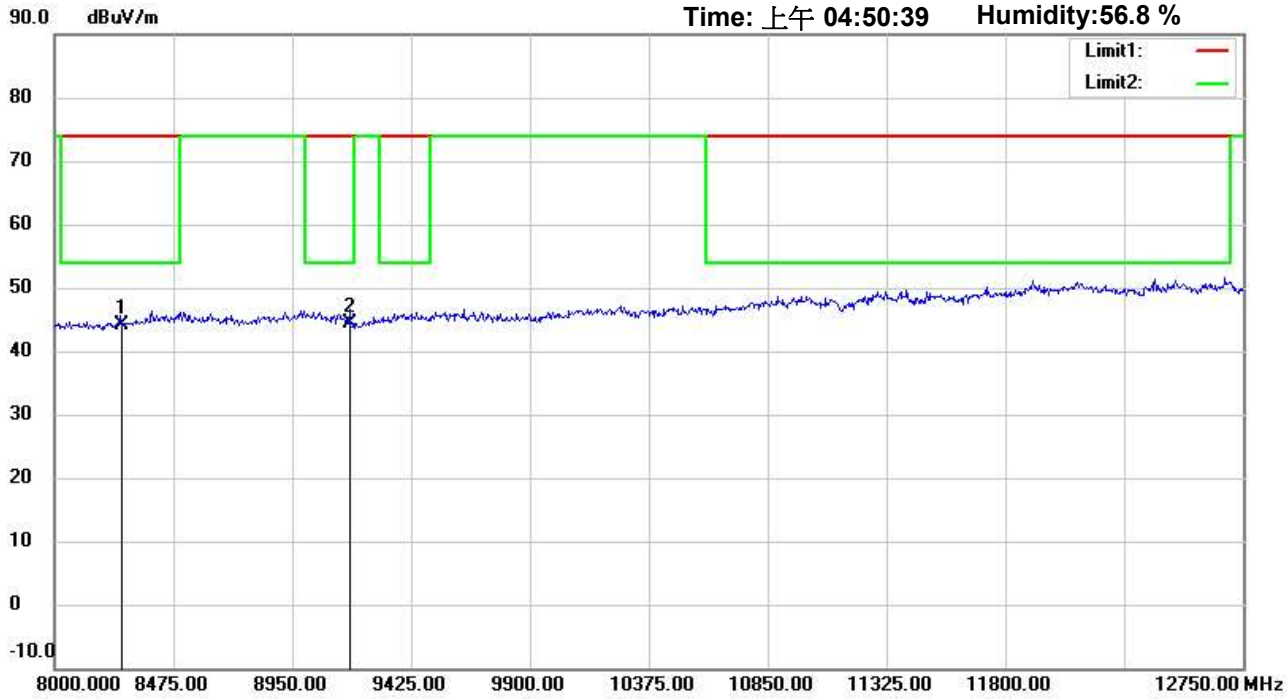
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#8 Date: 2025/3/13 Time: 上午 04:50:39

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22503-24195
M/N:
Test Mode : TX 918.0375 MHz
Note :

Polarization: *Vertical*
Power : 4.5 Vd.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
	8262.337	32.34	peak	11.80	44.14	74.00	150	181	-29.86	
*	9180.375	32.35	peak	11.92	44.27	74.00	150	23	-29.73	

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

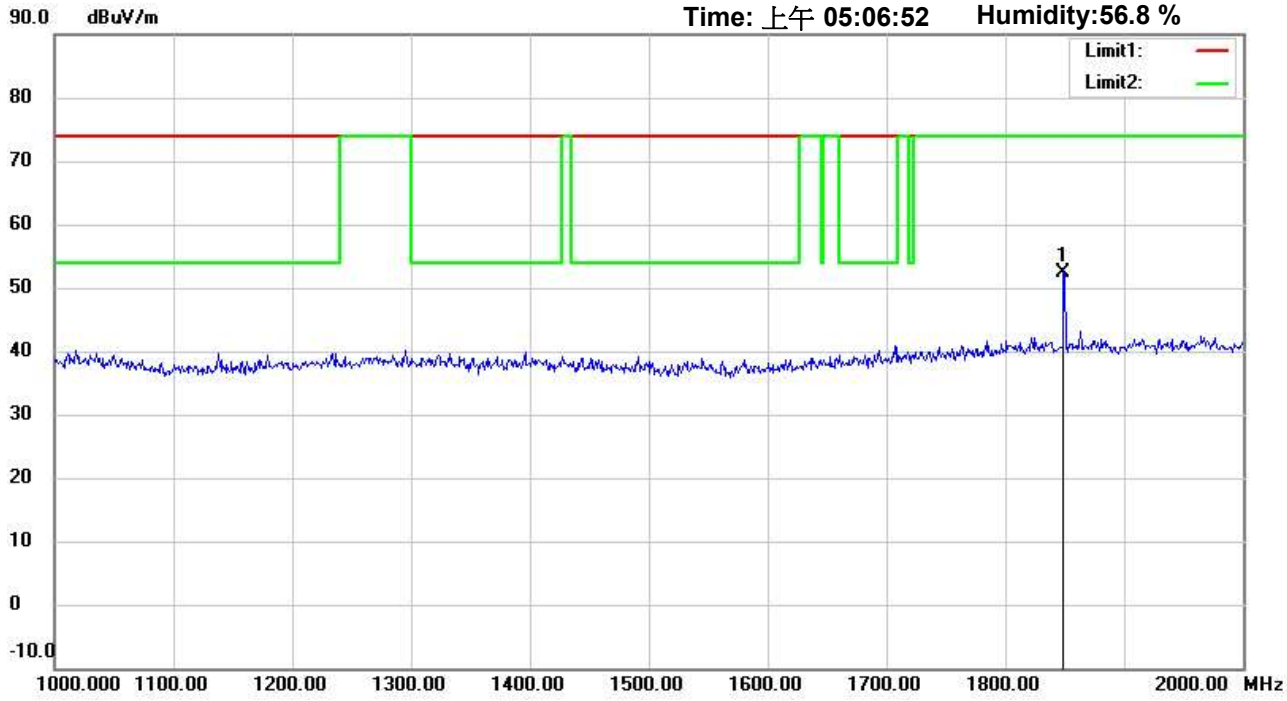
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#1 Date: 2025/3/13 Time: 上午 05:06:52

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22503-24195
M/N:
Test Mode : TX 924.48 MHz
Note :

Polarization: *Horizontal*
Power : 4.5 Vd.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
*	1849.000	53.16	peak	-0.78	52.38	74.00	150	6	-21.62	

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

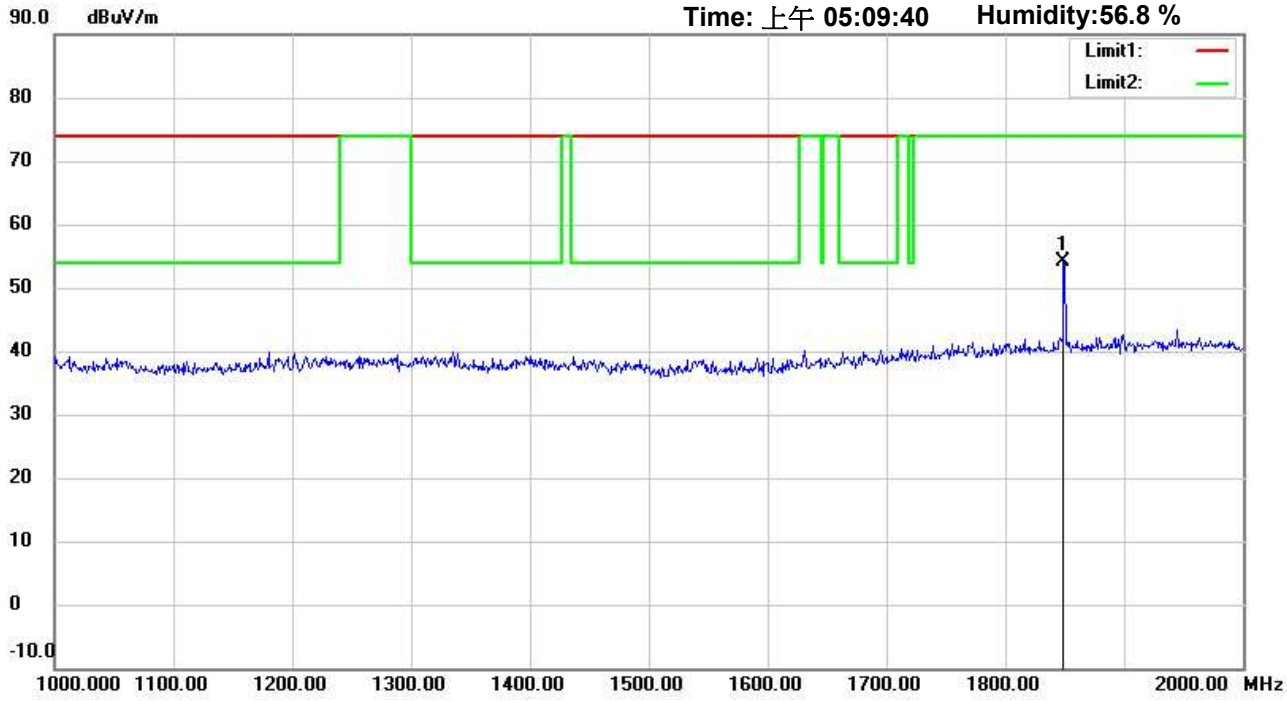
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#5 Date: 2025/3/13 Time: 上午 05:09:40

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22503-24195
M/N:
Test Mode : TX 924.48 MHz
Note :

Polarization: *Vertical*
Power : 4.5 Vd.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
*	1849.000	54.92	peak	-0.78	54.14	74.00	150	113	-19.86	

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

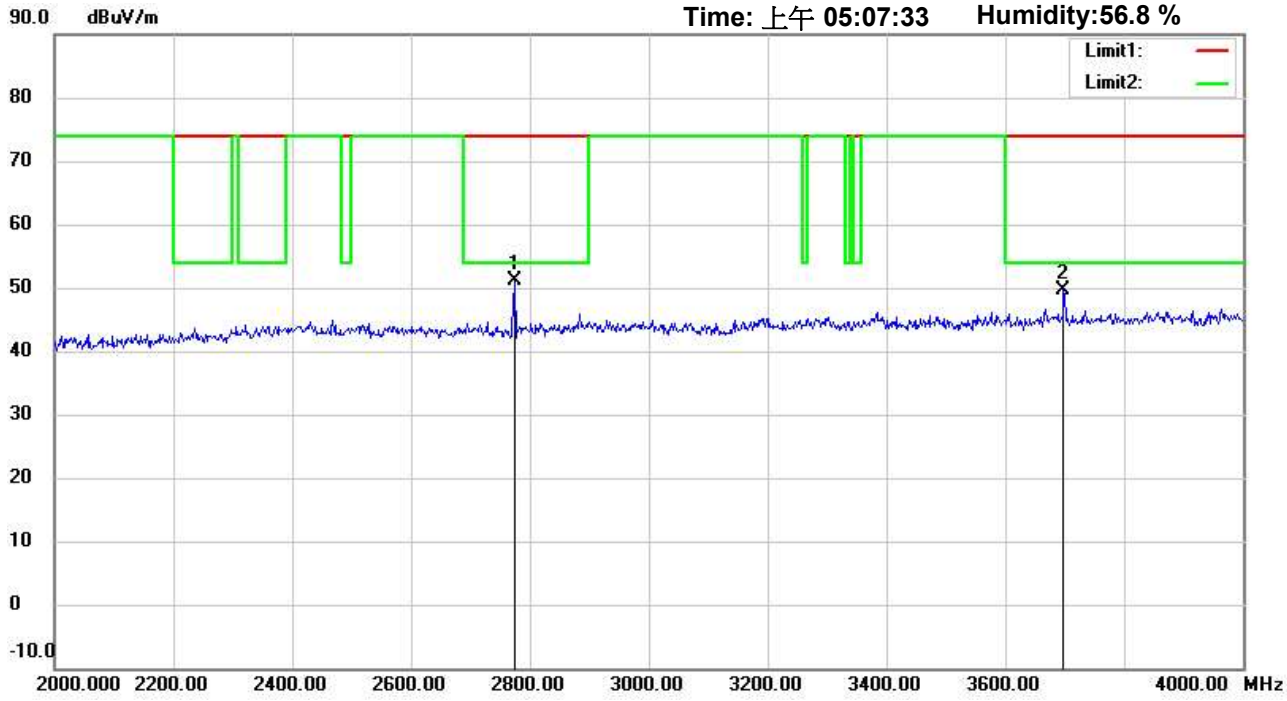
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#2 Date: 2025/3/13 Time: 上午 05:07:33

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22503-24195
M/N:
Test Mode : TX 924.48 MHz
Note :

Polarization: *Horizontal*
Power : 4.5 Vd.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
*	2774.000	49.19	peak	1.82	51.01	74.00	150	160	-22.99	
	3698.000	46.02	peak	3.66	49.68	74.00	150	39	-24.32	

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

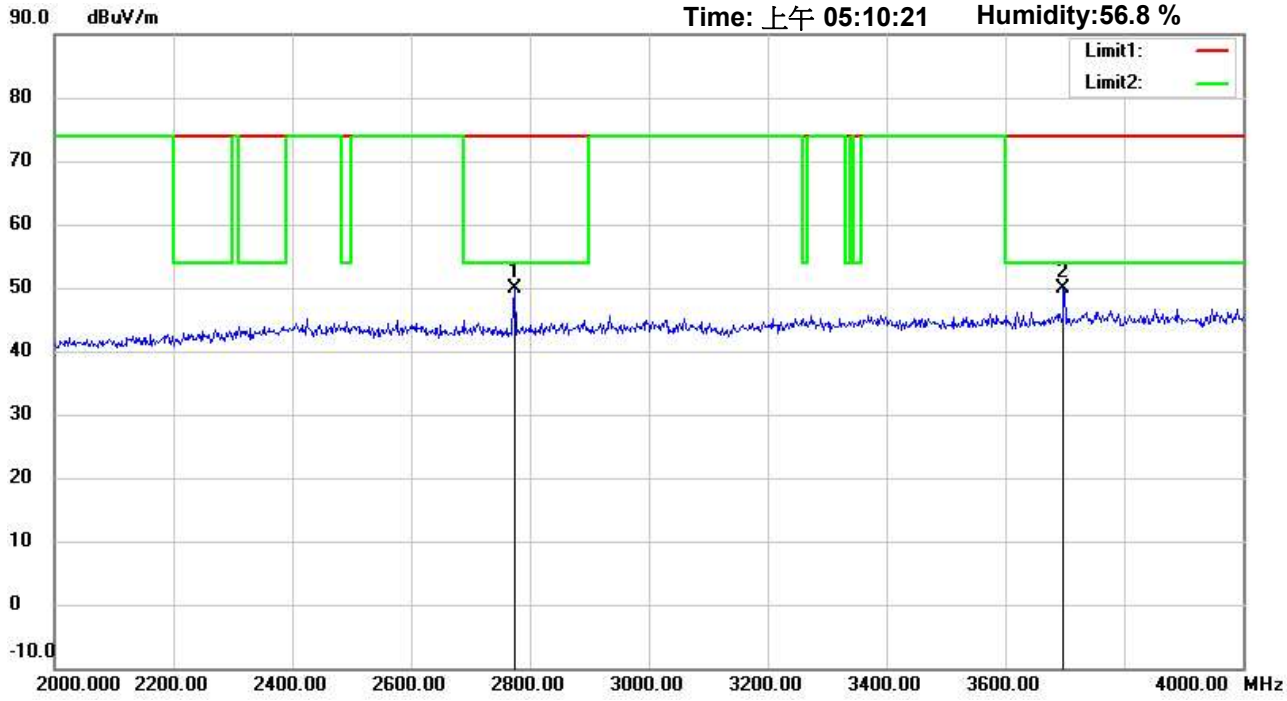
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#6 Date: 2025/3/13 Time: 上午 05:10:21

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22503-24195
M/N:
Test Mode : TX 924.48 MHz
Note :

Polarization: *Vertical*
Power : 4.5 Vd.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
*	2774.000	48.05	peak	1.82	49.87	74.00	150	164	-24.13	
	3698.000	46.21	peak	3.66	49.87	74.00	150	285	-24.13	

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

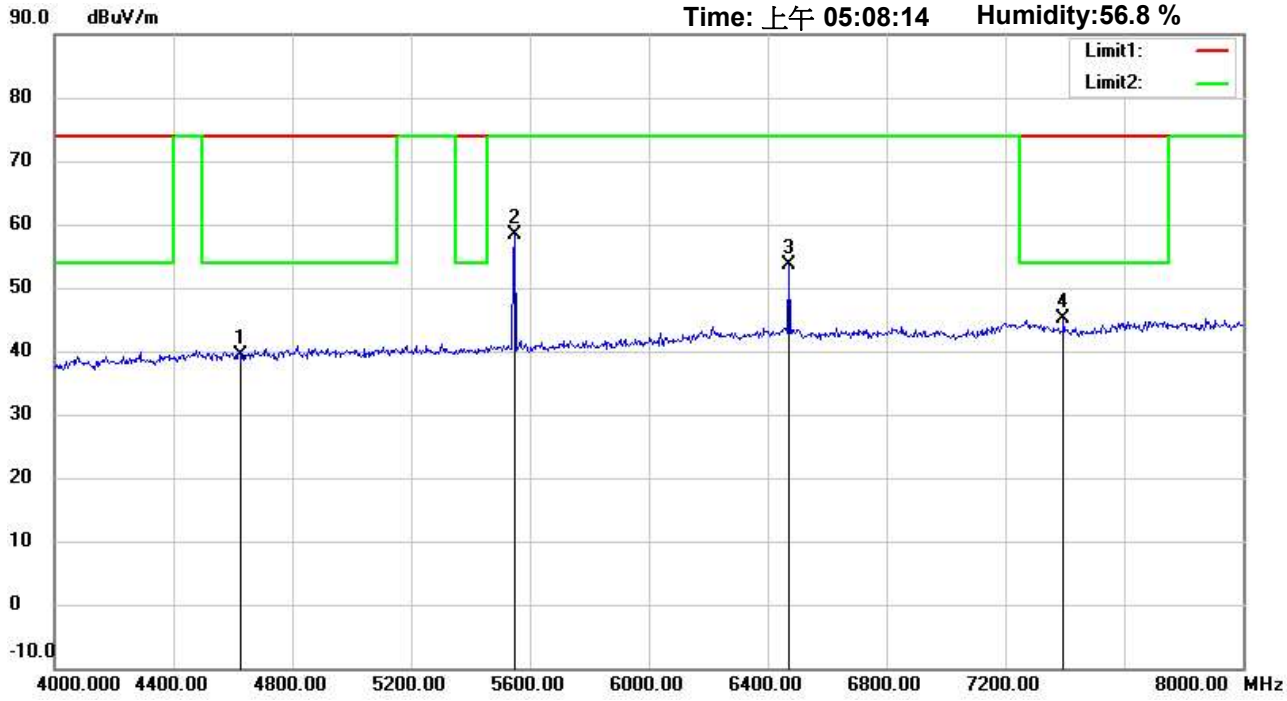
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#3 Date: 2025/3/13 Time: 上午 05:08:14

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M22503-24195

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 924.48 MHz

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
	4622.400	33.14	peak	6.35	39.49	74.00	150	58	-34.51	
*	5548.000	50.63	peak	7.80	58.43	74.00	150	169	-15.57	
	6472.000	43.49	peak	10.03	53.52	74.00	150	285	-20.48	
	7396.000	34.63	peak	10.62	45.25	74.00	150	32	-28.75	

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

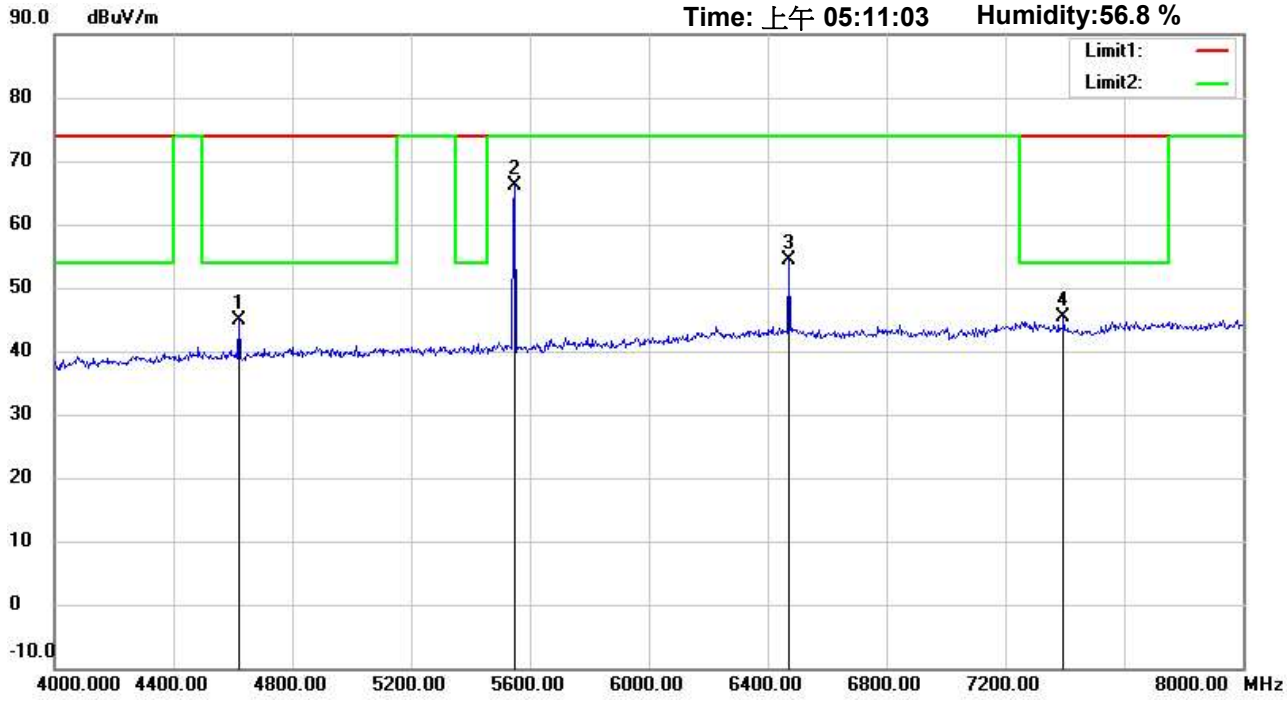
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#7 Date: 2025/3/13 Time: 上午 05:11:03

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M22503-24195

Power : 4.5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 924.48 MHz

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
	4620.000	38.51	peak	6.35	44.86	74.00	150	156	-29.14	
*	5548.000	58.35	peak	7.80	66.15	74.00	150	285	-7.85	
	6472.000	44.27	peak	10.03	54.30	74.00	150	23	-19.70	
	7396.000	34.72	peak	10.62	45.34	74.00	150	177	-28.66	

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

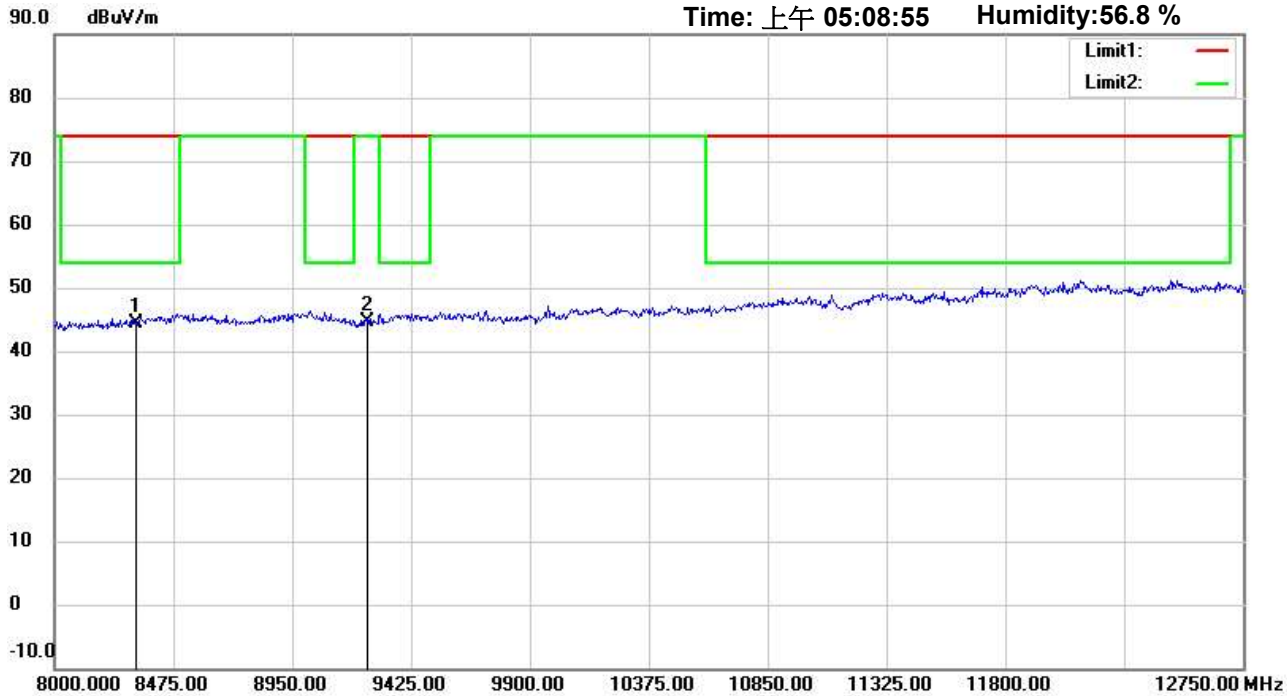
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#4 Date: 2025/3/13 Time: 上午 05:08:55

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22503-24195
M/N:
Test Mode : TX 924.48 MHz
Note :

Polarization: *Horizontal*
Power : 4.5 Vd.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
	8320.320	32.49	peak	11.94	44.43	74.00	150	126	-29.57	
*	9244.800	32.65	peak	11.94	44.59	74.00	150	26	-29.41	

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

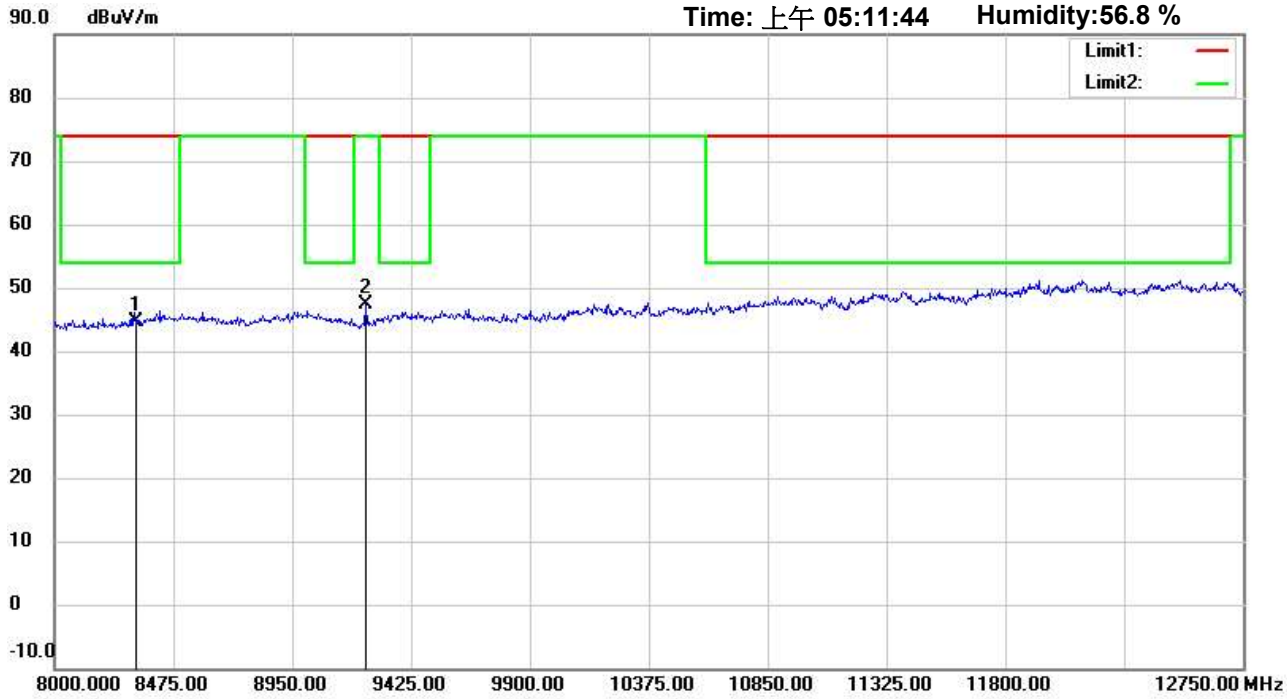
Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Echo

File :3 Data :#8 Date: 2025/3/13 Time: 上午 05:11:44

Temperature:25.2 ℃
Humidity:56.8 %



Site : 966A Chamber
Condition : FCC_part 15 RE-Class C_Above 1GHz_PK
EUT : W6M22503-24195
M/N:
Test Mode : TX 924.48 MHz
Note :

Polarization: *Vertical*
Power : 4.5 Vd.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
	8320.320	32.77	peak	11.94	44.71	74.00	150	359	-29.29	
*	9244.500	35.53	peak	11.94	47.47	74.00	150	142	-26.53	

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