

47 CFR PART 15 SUBPART C TEST REPORT

for

Edge Touch

Model No.: 2GIG TOUCH-NA-VA;

2G1G TOUCH-NA-AA

FCC ID: EF400264

of

Applicant: Nice North America LLC

Address: 5919 Sea Otter Place Suite 100 Carlsbad CA 92010

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.: W6M22505-24445-C-2



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Worldwide Testing Services(Taiwan) Co., Ltd.

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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:

June 11, 2025

Ken Kang

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

June 11, 2025

Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22505-24445-C-2

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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/Conducted Emission

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: ./.



Registration number: W6M22505-24445-C-2

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1.3 Details of approval holder

Name: Nice North America LLC
Street: 5919 Sea Otter Place Suite 100
City: Carlsbad CA 92010
Country: USA

1.4 Application details

Date of receipt of test item: May 22, 2025
Date of test: from May 23, 2025 to June 11, 2025

1.5 General information of Test item

Type of test item: Edge Touch
Model number: 2GIG TOUCH-NA-VA; 2G1G TOUCH-NA-AA
Multi-listing model number: ./.
Sample no.: #01

Technical data

Frequency band: 908.4-916 MHz
Operation frequency: 906 MHz
Operation modes: Simplex
Modulation type: FSK
Antenna type: Monopole antenna
Antenna gain: 1.96dBi
Power supply: Adapter (I/P: 100-240Va.c. 50/60Hz 0.6A Max
O/P: 14V=1.7A)
Battery 3.7V, 2500mAh, 9.25W

Manufacturer: (if different from applicant)

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

1.6 Test standards

47 CFR PART 15 SUBPART C § 15.249 (2023-10)
ANSI C63.10:2013



Registration number: W6M22505-24445-C-2

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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

Details Power supply: Adapter (I/P: 100-240Va.c. 50/60Hz 0.6A Max
O/P: 14V=1.7A)
Battery 3.7V, 2500mAh, 9.25W

Extreme conditions parameters: Not required

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission(CR) (Power Line Conducted Emission)	Expanded Uncertainty : AMN : 1.08 dB
Estimation Result of Uncertainty of Radiated Emission(3M-966A) (Peak Output Power (transmitter), Equivalent isotropic radiated power, RF Exposure Compliance Requirements, Out of Band Radiated Emissions, Spurious emission (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 Band Edge Measurement (Radiated Emission on the band edge)	Expanded Uncertainty : 0.63 dBc
Estimation Result of Uncertainty of Bandwidth Measurement (Occupied Bandwidth)	Expanded Uncertainty : 0.37 kHz

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



Worldwide Testing Services(Taiwan) Co., Ltd.

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2.3 Test Equipment List

20dB Bandwidth

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

Power&Bandedge&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	2024/9/11	2025/9/10
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2025/2/14	2026/4/8
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+	

AC Conducted Emission(CR)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-CE 032	EMI Test Receiver	ESR3	102830	R&S	2025/5/5	2026/5/4
ETSTW-CE 035	AC Power Source	AFC-150	A2000386	All power	Function Test	
ETSTW-CE 034	Line-Impedance Stabilisation Network	NSLK8127	01087	SCHWARZBECK	2024/7/18	2025/7/17
ETSTW-Cable 092	BNC Cable (3m)	EMCCFD-300-BM-BM-3000	240108	EMCI	2025/1/9	2026/1/8
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	



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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.

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 dB μ V) 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 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

ANSI STANDARD C63.10-2013 6.2.2 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm height and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the centre 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 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.



Worldwide Testing Services(Taiwan) Co., Ltd.

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3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.249 (a)	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.249 (e)	☒	☒	☐
Spurious Emissions conducted – Transmitter operating	15.249 (e)	☐	☐	☐
Radiated Emission from Receiver Part	15.109	☐	☐	☐
Out of Band Spurious Emission, Band edge-Transmitter operating	15.249 (d)(e) 15.35 (b)	☒	☒	☐
20 dB Bandwidth	15.215 (c)	☒	☒	☐
Power Line Conducted Emission	15.207	☒	☒	☐

The following is intentionally left blank.



Registration number: W6M22505-24445-C-2

FCC ID: EF400264

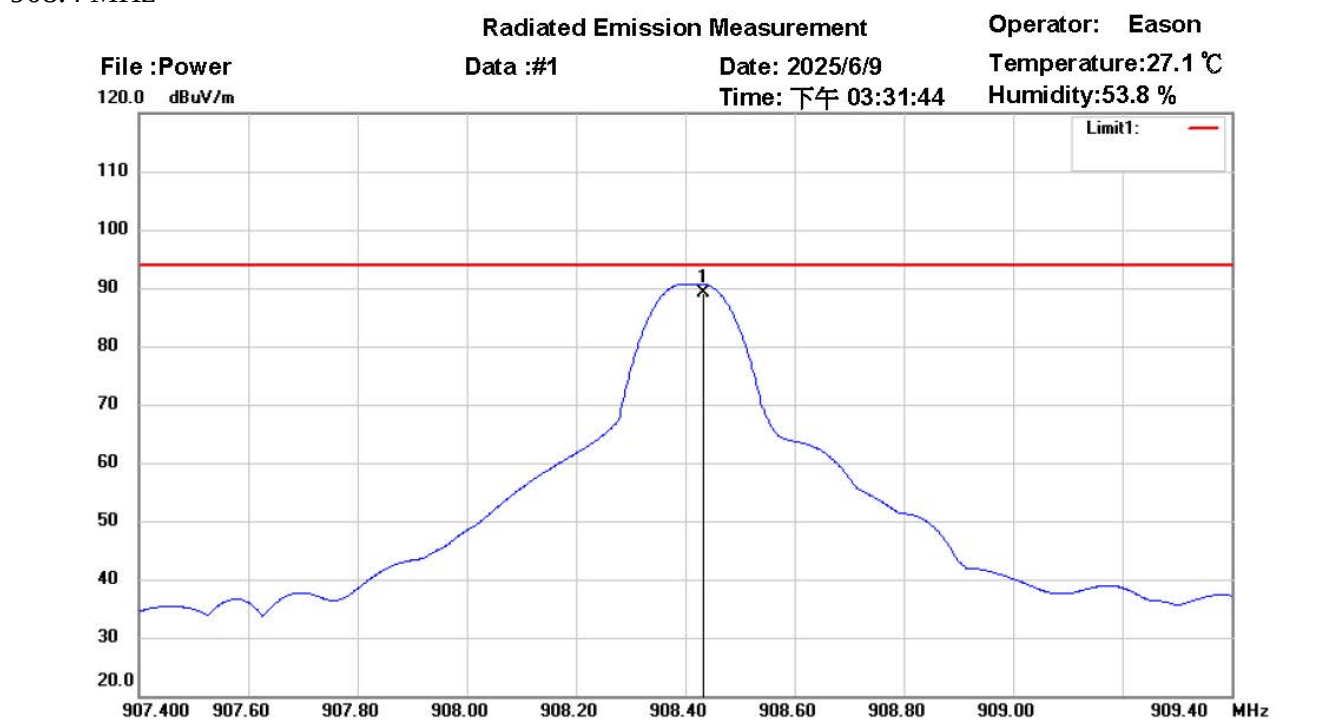
3.1 Peak Output Power (transmitter)

FCC Rule: 15.249 (a)

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).

908.4 MHz



Site : 966A Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4MHz

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
*	908.4320	89.92	QP	-0.90	89.02	94.00	148	331	-4.98	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22505-24445-C-2

FCC ID: EF400264

Radiated Emission Measurement

Operator: Eason

File :Power

Data :#2

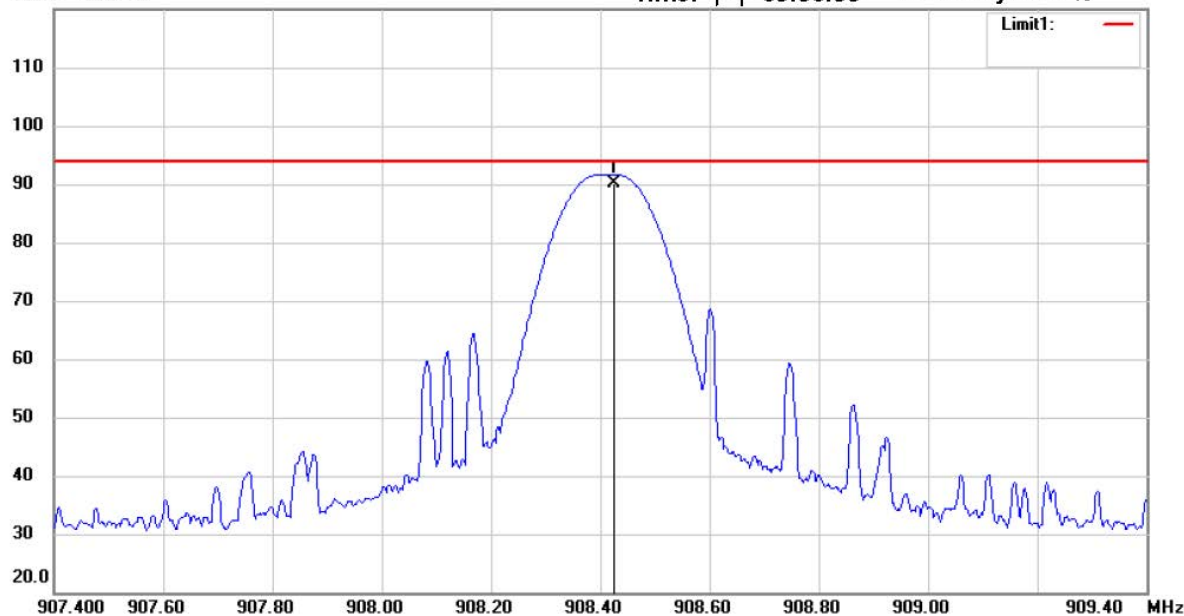
Date: 2025/6/9

Temperature:27.1 °C

120.0 dBuV/m

Time: 下午 03:36:59

Humidity:53.8 %



Site : 966A Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4MHz

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
*	908.4240	91.02	QP	-0.90	90.12	94.00	107	12	-3.88	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22505-24445-C-2

FCC ID: EF400264

916 MHz

Radiated Emission Measurement

Operator: Eason

File :Power

Data :#1

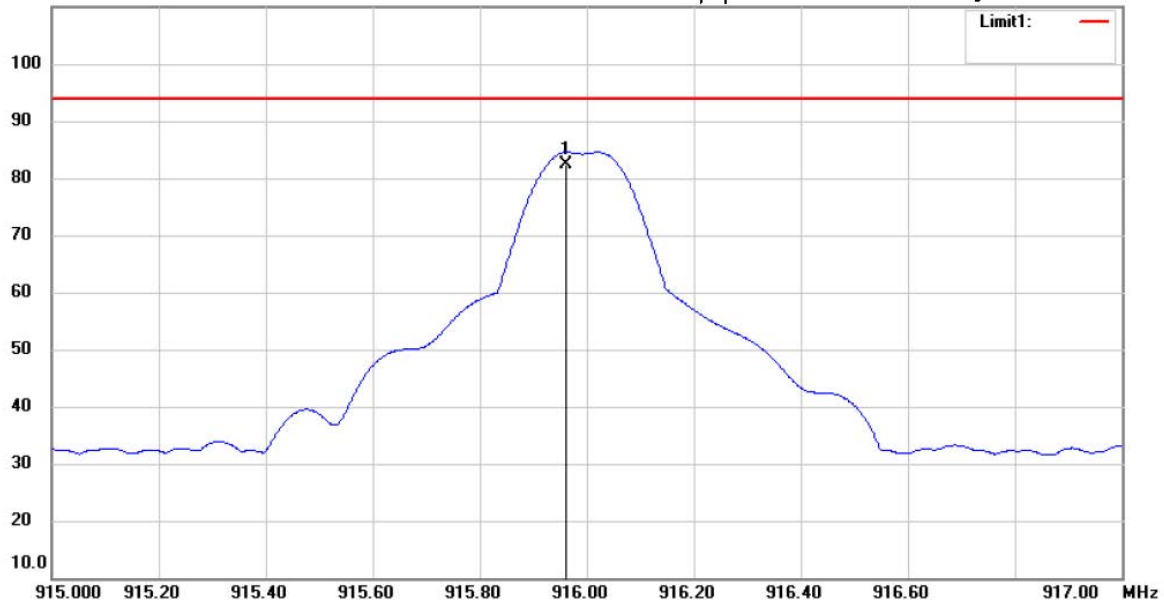
Date: 2025/6/9

Temperature:27.1 °C

110.0 dBuV/m

Time: 下午 03:50:20

Humidity:53.8 %



Site : 966A Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M22505-24445

M/N:

Test Mode : TX 916MHz

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
*	915.9620	83.15	QP	-0.77	82.38	94.00	141	331	-11.62	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22505-24445-C-2

FCC ID: EF400264

Radiated Emission Measurement

Operator: Eason

File :Power
110.0 dBuV/m

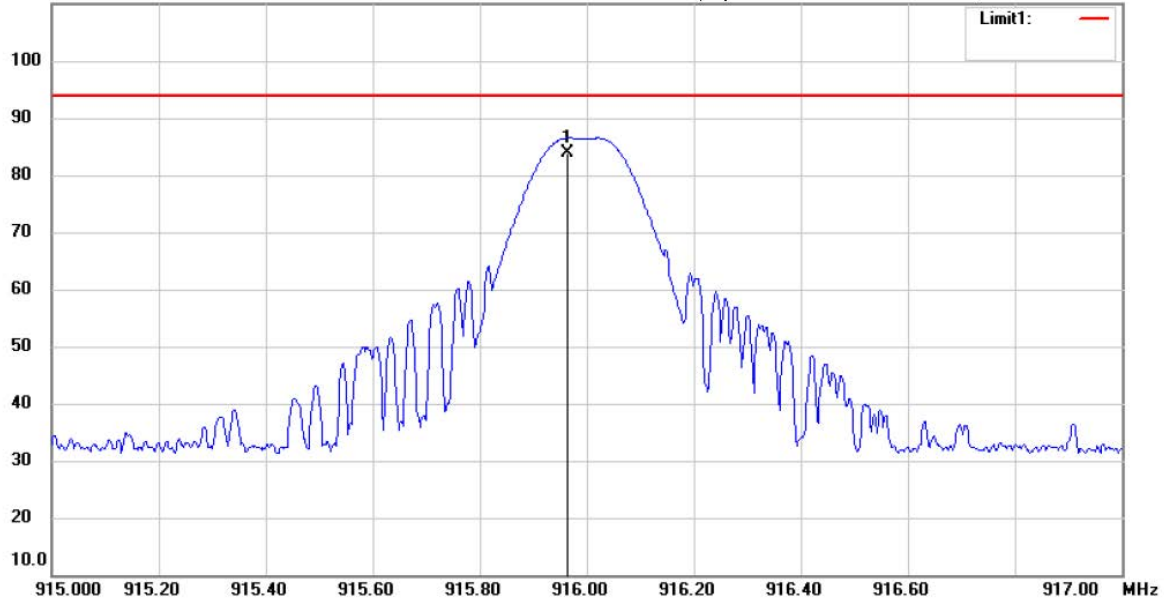
Data :#2

Date: 2025/6/9

Temperature:27.1 °C

Time: 下午 03:57:09

Humidity:53.8 %



Site : 966A Chamber

Condition : FCC 15.249 power(902-928)_QP

EUT : W6M22505-24445

M/N:

Test Mode : TX 916MHz

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
*	915.9640	84.64	QP	-0.77	83.87	94.00	106	15	-10.13	



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3.2 Equivalent isotropic radiated power

Because using an permanent antenna there are no deviations from the radiated test results according 3.1.

3.3 RF Exposure Compliance Requirements

Not applicable for this EUT for the low power level.

3.4 Out of Band Radiated Emissions

FCC Rule: 15.249 (d)(e), 15.35 (b)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequency above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Limits:

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	46.5
Above 960	500	54.0

For frequencies above 1 GHz (Peak measurements).

Limit + 20 dB 54.0 dB μ V/m + 20 dB= 74dB μ V/m

Or

Must be attenuated at least 50dB below the level of fundament

Explanation: ./.



Worldwide Testing Services(Taiwan) Co., Ltd.

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3.5 Spurious emission (tx)

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

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequencies above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth. Emissions more than 20 dB below the limit do not need to be reported.

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

The peak and average spurious emission plots was measured with the average limits.
The critical peak value listed in the table agree with the above calculated limits.

Summary table with radiated data of the test plots

Model:	2GIG TOUCH-NA-VA;	Date:	--					
Mode:	2G1G TOUCH-NA-AA	Temperature:	--	°C	Engineer:	--		
Polarization:	Horizontal	Humidity:	--	%				
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	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. Up Line: PK Limit Line, Down Line: Ave Limit Line.**
- 6. Please see attached diagrams in appendix.**

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



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3.6 Radiated Emissions from Receiver Part

Summary table with radiated data of the test plots

Model: 2GIG TOUCH-NA-VA; Date: --
Mode: 2G1G TOUCH-NA-AA Temperature: -- °C Engineer: --
Polarization: Horizontal Humidity: -- %

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

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	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. Please see attached diagrams in appendix.**



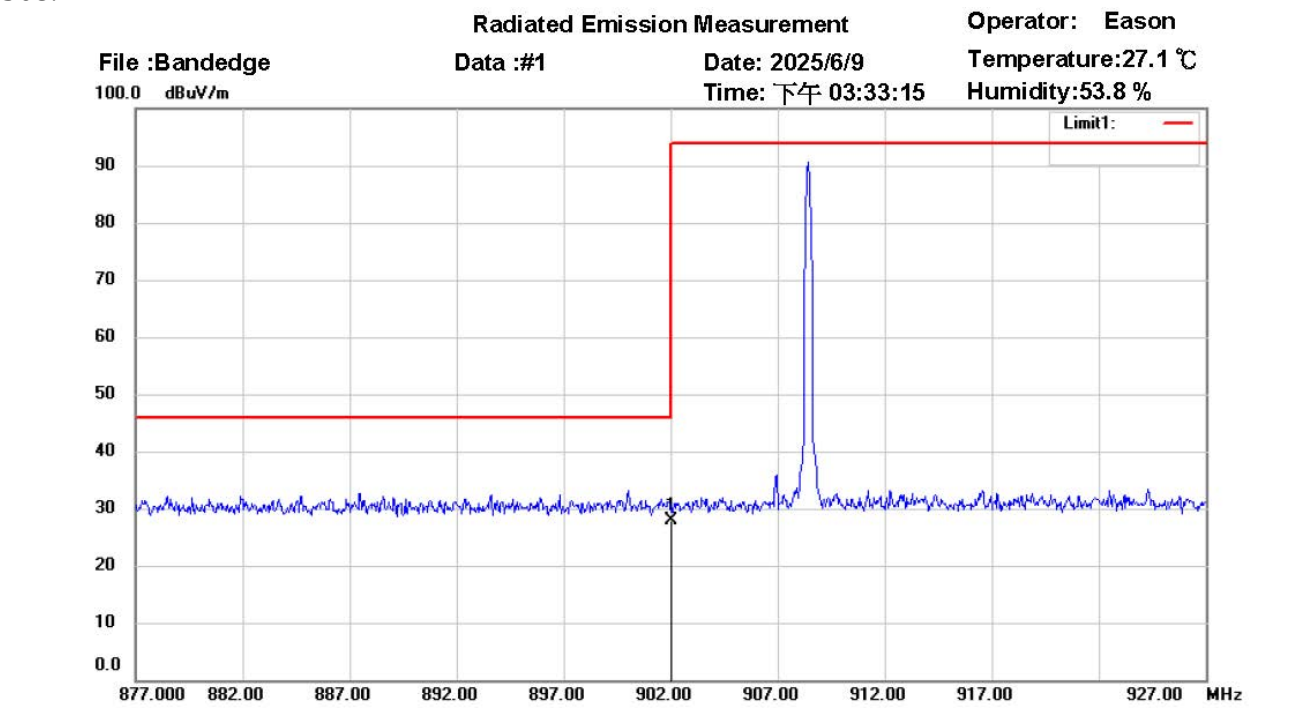
Registration number: W6M22505-24445-C-2

FCC ID: EF400264

3.7 Radiated Emission on the band edge

From the following plots, they show that the fundamental emissions are confined in the specified band and hey at least 50 dB below the carrier level at band edge (2400 and 2483.5 MHz). It meets the requirement of section 15.249(d).

908.4 MHz



Site : 966A Chamber

Condition : FCC 15.249 Bandedge(902-928)_QP

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4MHz

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
*	902.0000	28.96	QP	-1.01	27.95	46.00	148	331	-18.05	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22505-24445-C-2

FCC ID: EF400264

Radiated Emission Measurement

Operator: Eason

File :Bandedge

Data :#2

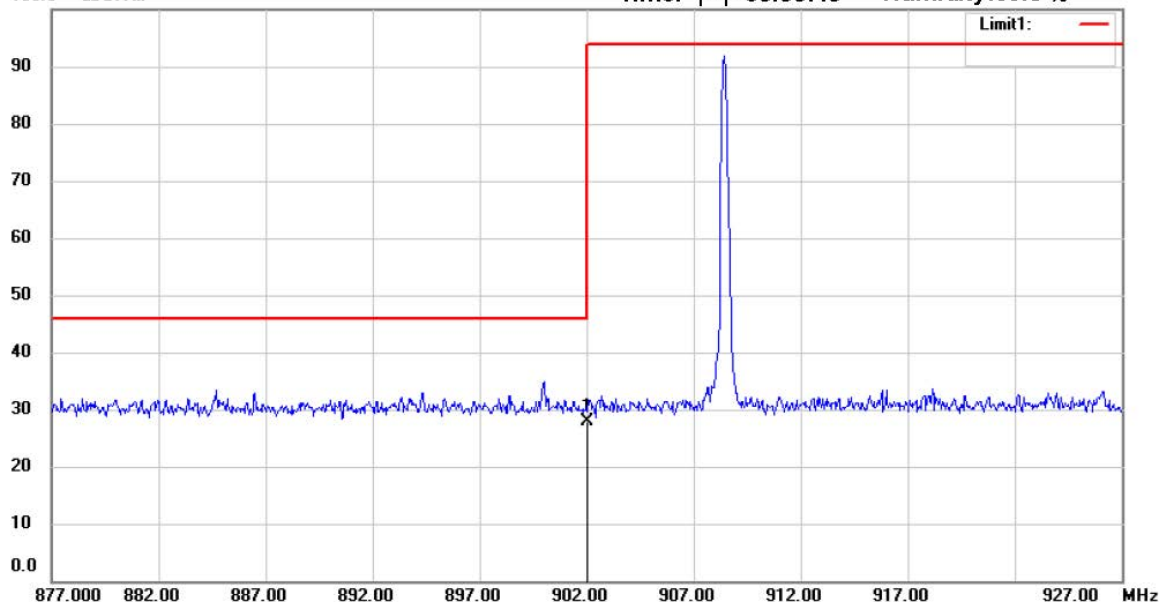
Date: 2025/6/9

Temperature:27.1 °C

100.0 dBuV/m

Time: 下午 03:39:15

Humidity:53.8 %



Site : 966A Chamber

Condition : FCC 15.249 Bandedge(902-928)_QP

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4MHz

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
*	902.0000	28.93	QP	-1.01	27.92	46.00	107	12	-18.08	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22505-24445-C-2

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916 MHz

Radiated Emission Measurement

Operator: Eason

File :Bandedge

Data :#1

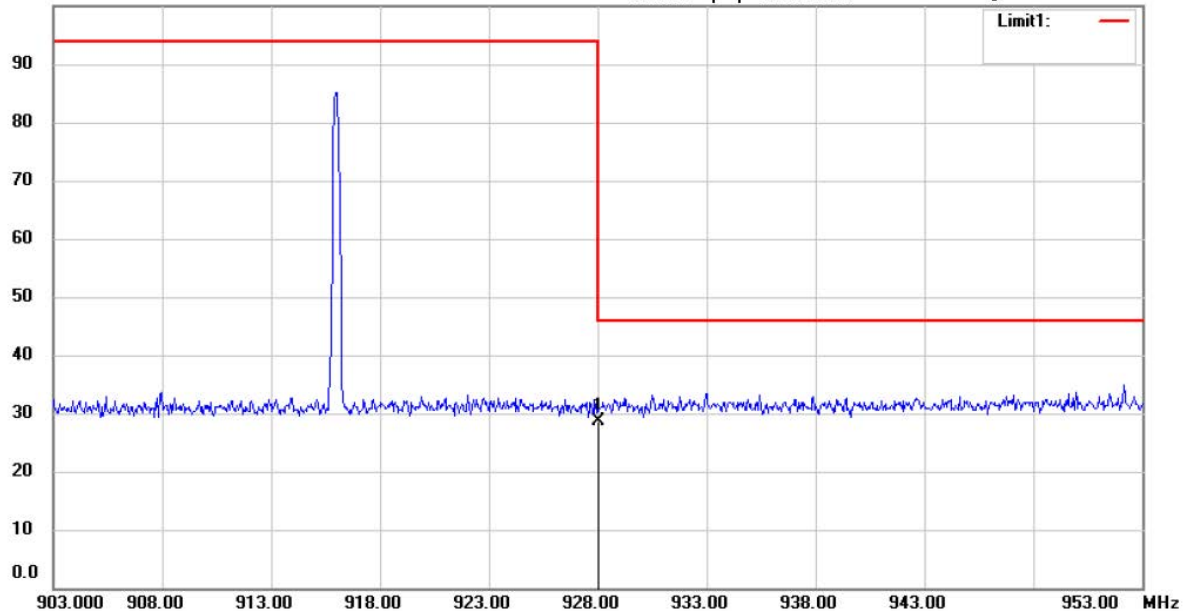
Date: 2025/6/9

Temperature:27.1 °C

100.0 dBuV/m

Time: 下午 03:52:43

Humidity:53.8 %



Site : 966A Chamber

Condition : FCC 15.249 Bandedge(902-928)_QP

Polarization: *Horizontal*

EUT : W6M22505-24445

Power : 120 Va.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

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
*	928.0000	29.09	QP	-0.56	28.53	46.00	141	331	-17.47	



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Registration number: W6M22505-24445-C-2

FCC ID: EF400264

Radiated Emission Measurement

Operator: Eason

File :Bandedge

Data :#2

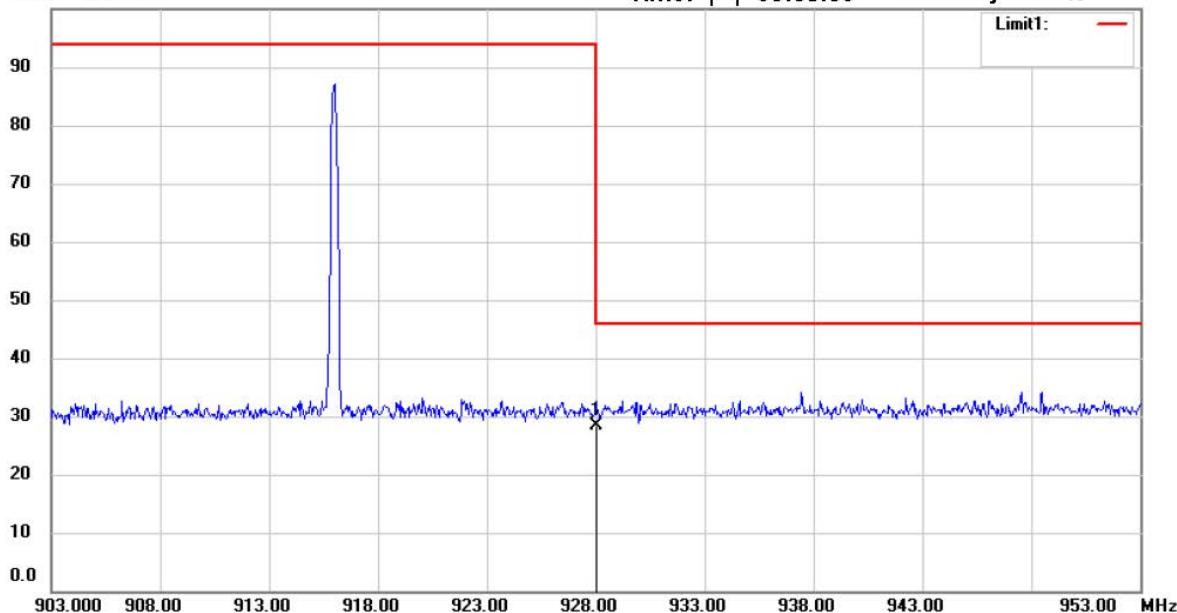
Date: 2025/6/9

Temperature:27.1 °C

Time: 下午 03:58:56

Humidity:53.8 %

100.0 dBuV/m



Site : 966A Chamber

Condition : FCC 15.249 Bandedge(902-928)_QP

Polarization: *Vertical*

EUT : W6M22505-24445

Power : 120 V.a.c.

M/N:

Distance: 3m

Test Mode : TX 916MHz

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
*	928.0000	29.06	QP	-0.56	28.50	46.00	106	15	-17.50	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22505-24445-C-2

FCC ID: EF400264

Limit:

Frequency Range (MHz)	Limit (dB μ V/m)	
	Peak	Average
902 – 928	46	94



FCC ID: EF400264

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.

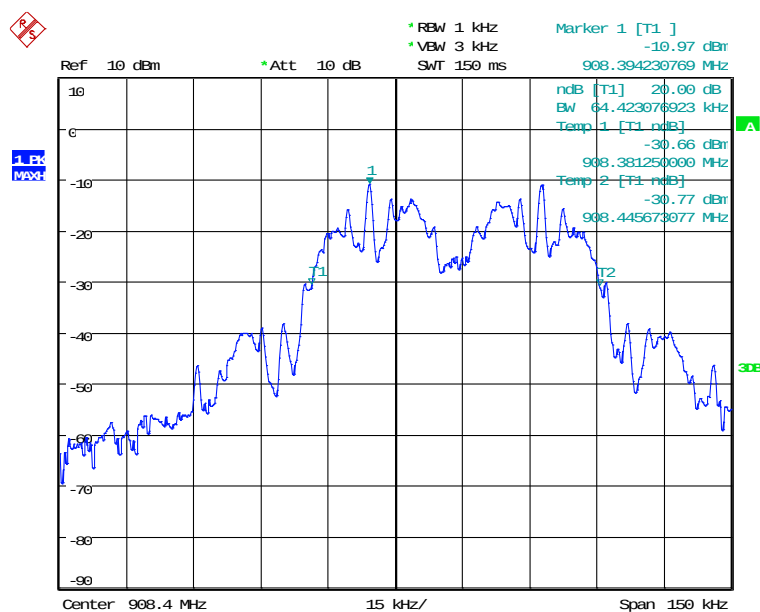
Test date: June 06, 2025

Temperature: 27.8 °C

Humidity: 42.0 %

Tester: Ken

908.4 MHz



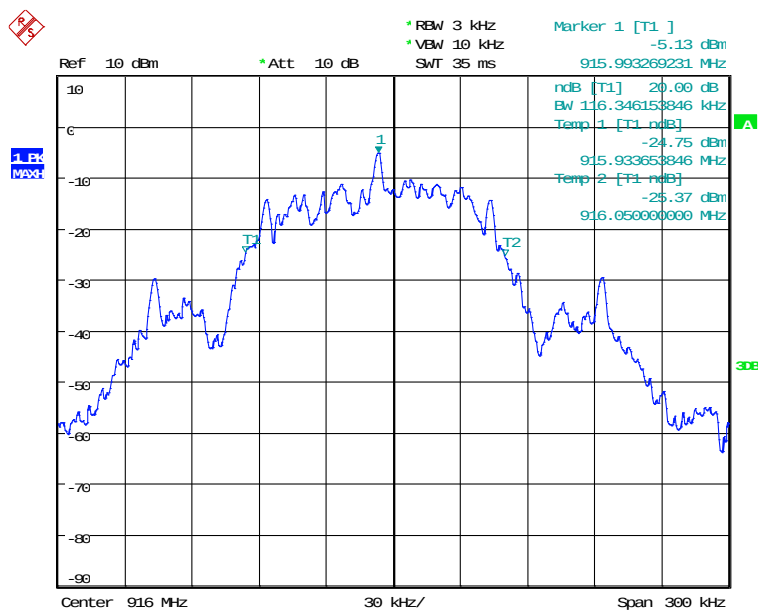
20DB BANDWIDTH 908.4MHZ
Date: 3 JUN 2025 10:27:52



Registration number: W6M22505-24445-C-2

FCC ID: EF400264

916 MHz



20DB BANDWIDTH 916MHZ
Date: 3.JUN.2025 10:31:03

Limits:

Frequency Range / MHz	Limit
906	≤ 500 kHz
2400-2483.5	not defined
5725-5850	≤ 1 MHz

3.8.1 System Receiver Input Bandwidth

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



Registration number: W6M22505-24445-C-2

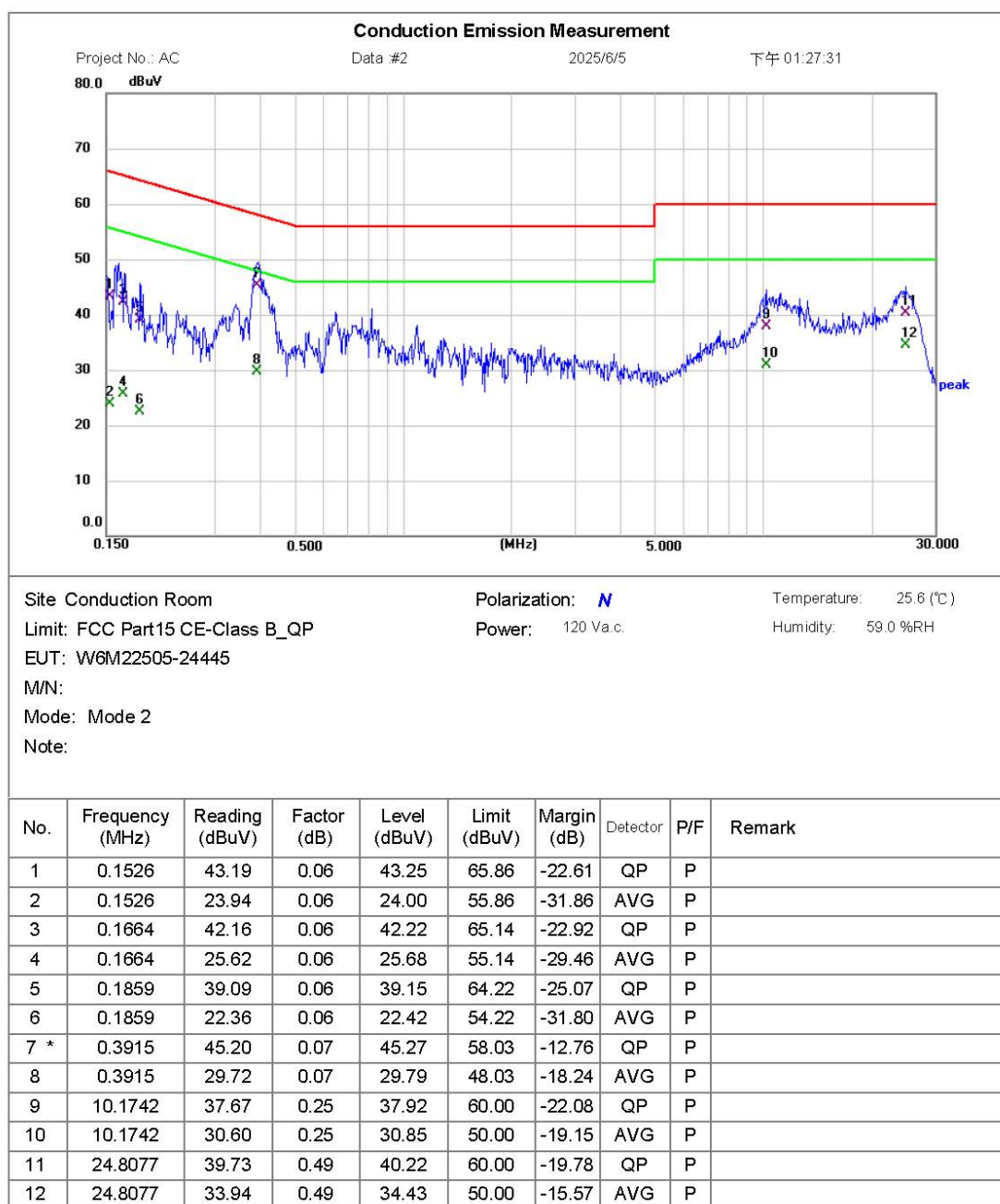
FCC ID: EF400264

3.9 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.

Mode 2

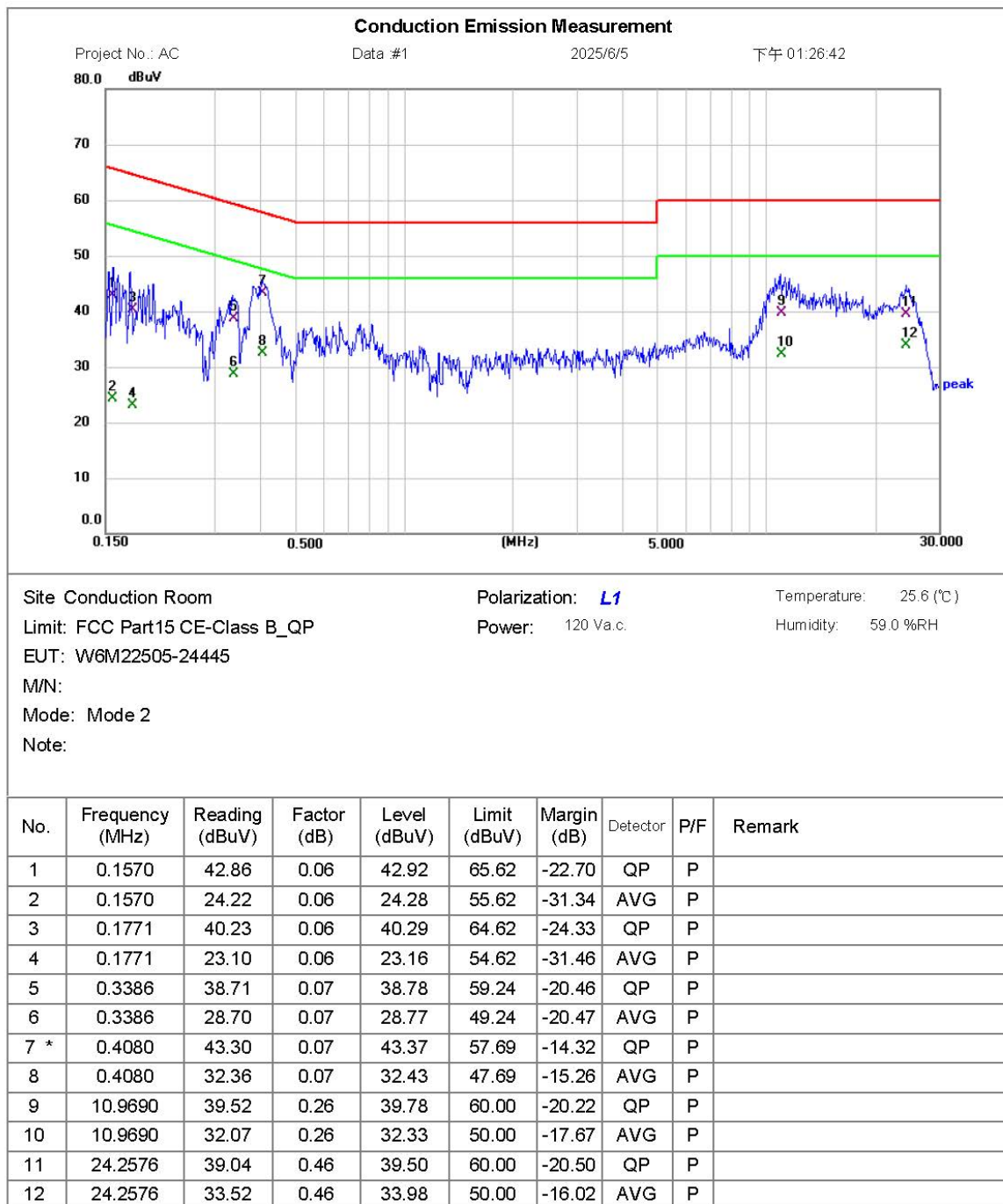




Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22505-24445-C-2

FCC ID: EF400264



- Note:**
1. The formula of measured value as: Test Result = Reading + Correction Factor
 2. The Correction Factor = Cable Loss + LISN Insertion Loss
 3. Detector function in the form : PK = Peak, QP = Qusai 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: W6M22505-24445-C-2

FCC ID: EF400264

Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi Peak	Average
0.15-0.5 0.5-5 5-30	66 to 56	56 to 46
	56	46
	60	50



Registration number: W6M22505-24445-C-2

FCC ID: EF400264

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: Echo

File :below-1G-1

Data :#1

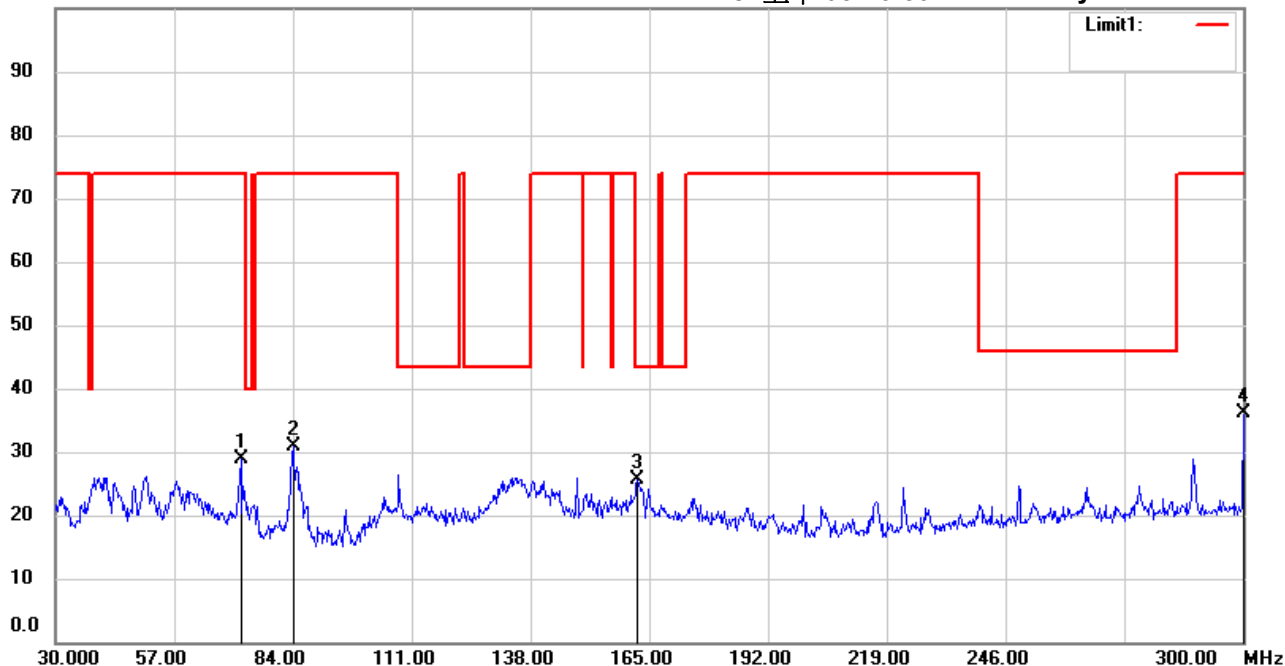
Date: 2025/6/7

Temperature:26.9 °C

100.0 dBuV/m

Time: 上午 05:46:50

Humidity:44.0 %



Site : 966A Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4MHz

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
	72.1200	44.63	peak	-15.66	28.97	74.00	100	190	-45.03	
	84.0000	48.88	peak	-17.99	30.89	74.00	100	123	-43.11	
*	162.3000	37.98	peak	-12.38	25.60	43.50	100	0	-17.90	
	300.0000	48.12	peak	-12.06	36.06	74.00	100	257	-37.94	

*: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 : below-1G-1

Data : #2

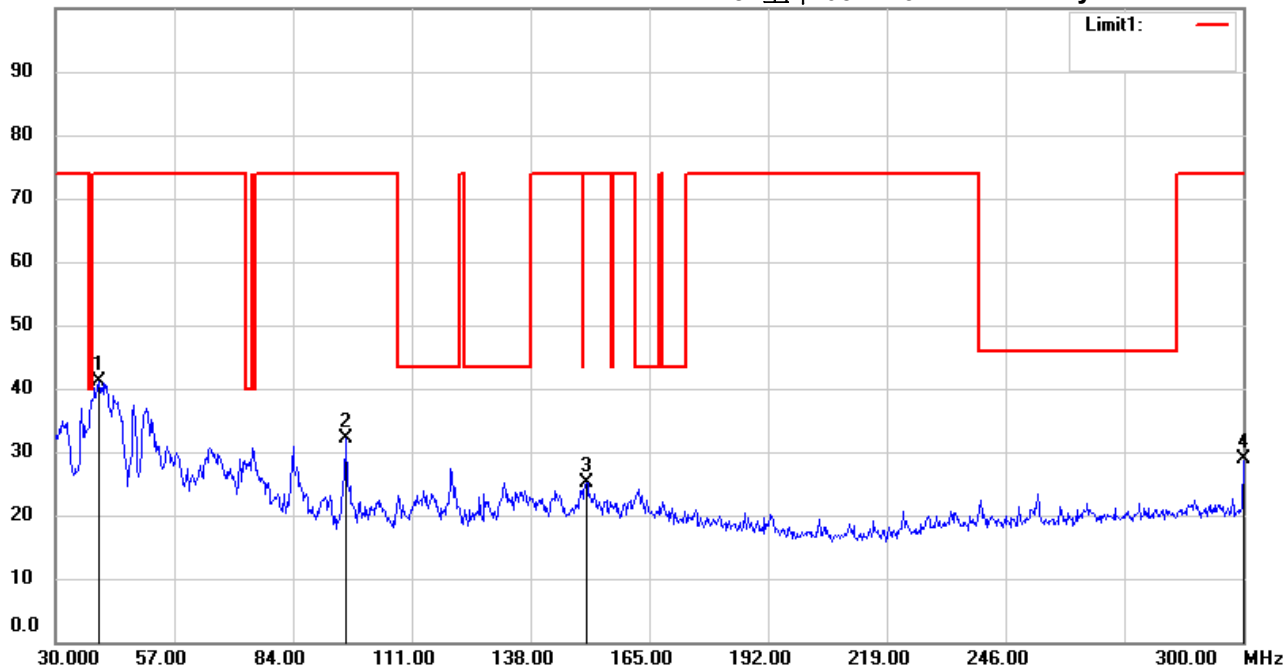
Date: 2025/6/7

Temperature: 26.9 °C

100.0 dBuV/m

Time: 上午 05:47:34

Humidity: 44.0 %



Site : 966A Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4MHz

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
*	39.7200	54.77	peak	-13.69	41.08	74.00	100	6	-32.92	
	96.1500	49.89	peak	-17.76	32.13	74.00	100	1	-41.87	
	150.6900	37.73	peak	-12.53	25.20	74.00	100	6	-48.80	
	300.0000	40.95	peak	-12.06	28.89	74.00	100	78	-45.11	

*: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: Gino

File : 3

Data : #1

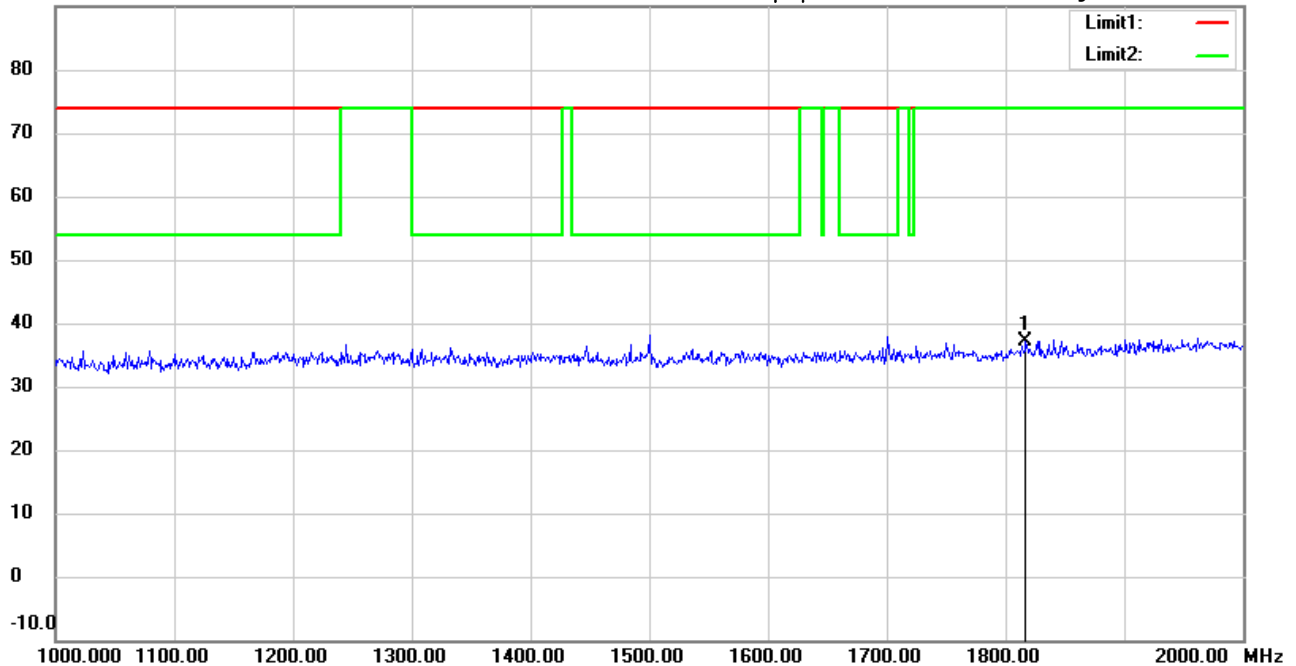
Date: 2025/6/6

Temperature: 26.1 °C

90.0 dBuV/m

Time: 下午 11:21:45

Humidity: 41.1 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4 MHz

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
*	1816.800	43.87	peak	-6.67	37.20	74.00	150	147	-36.80	

*: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: Gino

File : 3

Data : #5

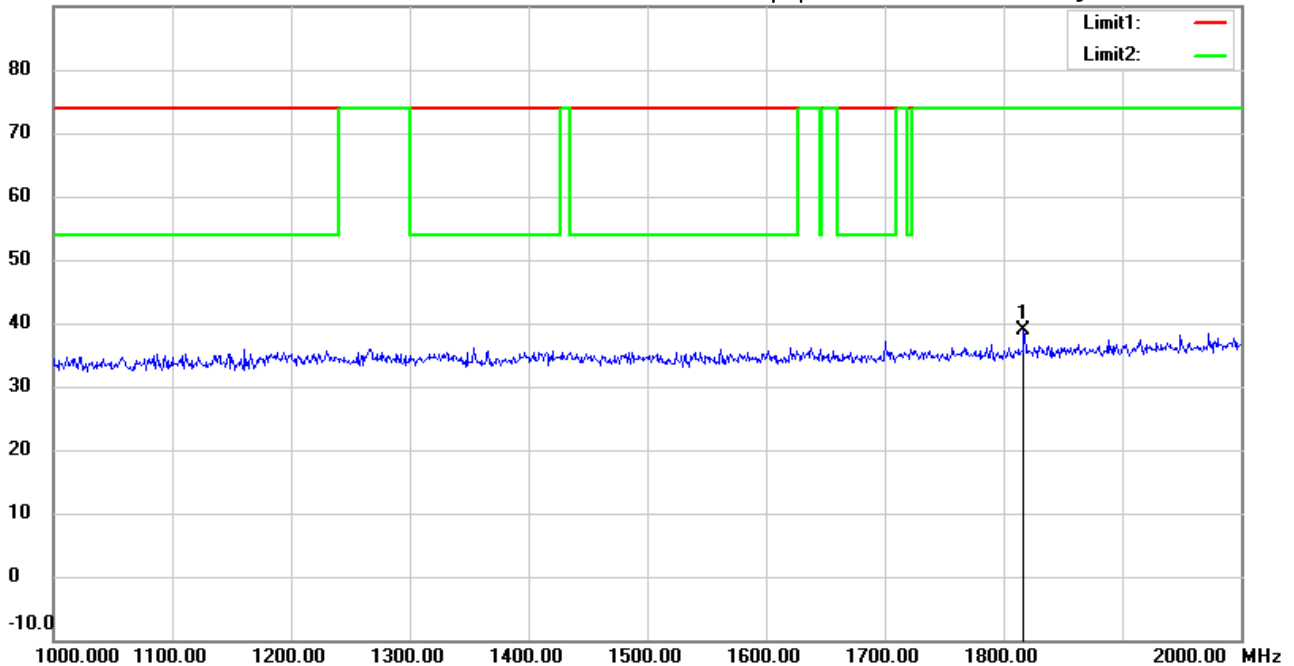
Date: 2025/6/6

Temperature: 26.1 °C

90.0 dBuV/m

Time: 下午 11:24:34

Humidity: 41.1 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4 MHz

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
*	1817.000	45.44	peak	-6.67	38.77	74.00	150	300	-35.23	

*: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: Gino

File : 3

Data : #2

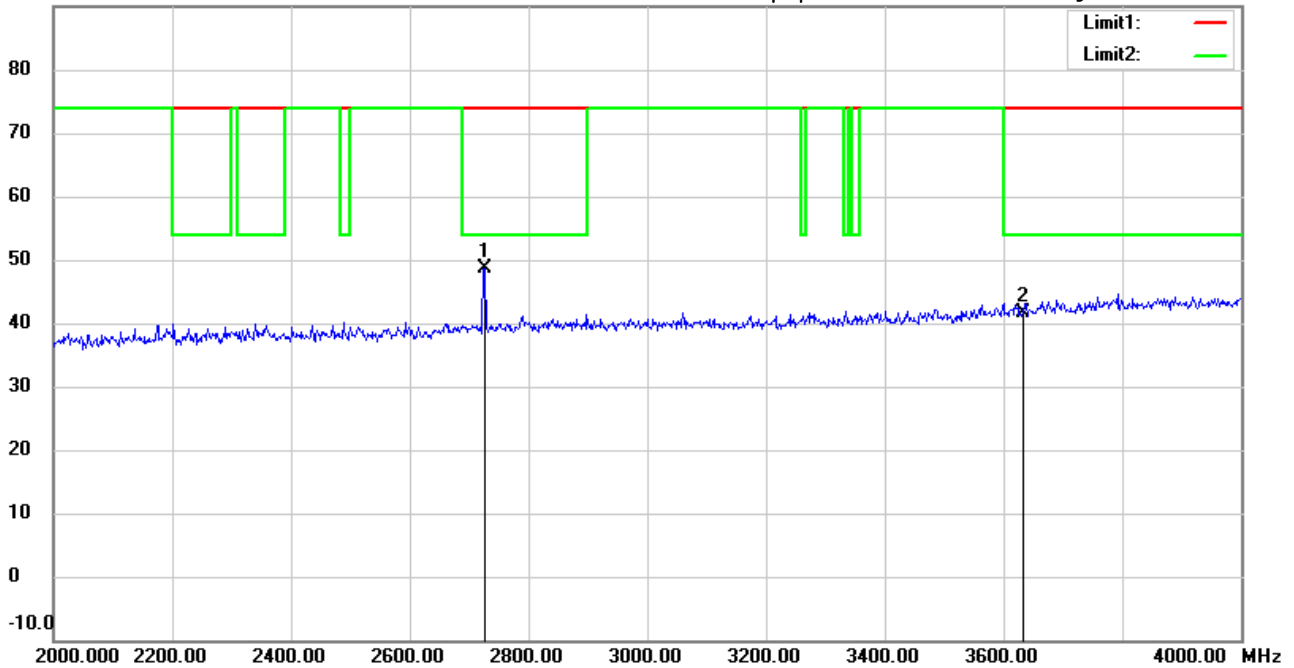
Date: 2025/6/6

Temperature: 26.1 °C

90.0 dBuV/m

Time: 下午 11:22:26

Humidity: 41.1 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4 MHz

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
*	2726.000	51.54	peak	-2.85	48.69	74.00	150	211	-25.31	
	3633.600	41.45	peak	0.10	41.55	74.00	150	165	-32.45	

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



Radiated Emission Measurement

Operator: Gino

File : 3

Data : #6

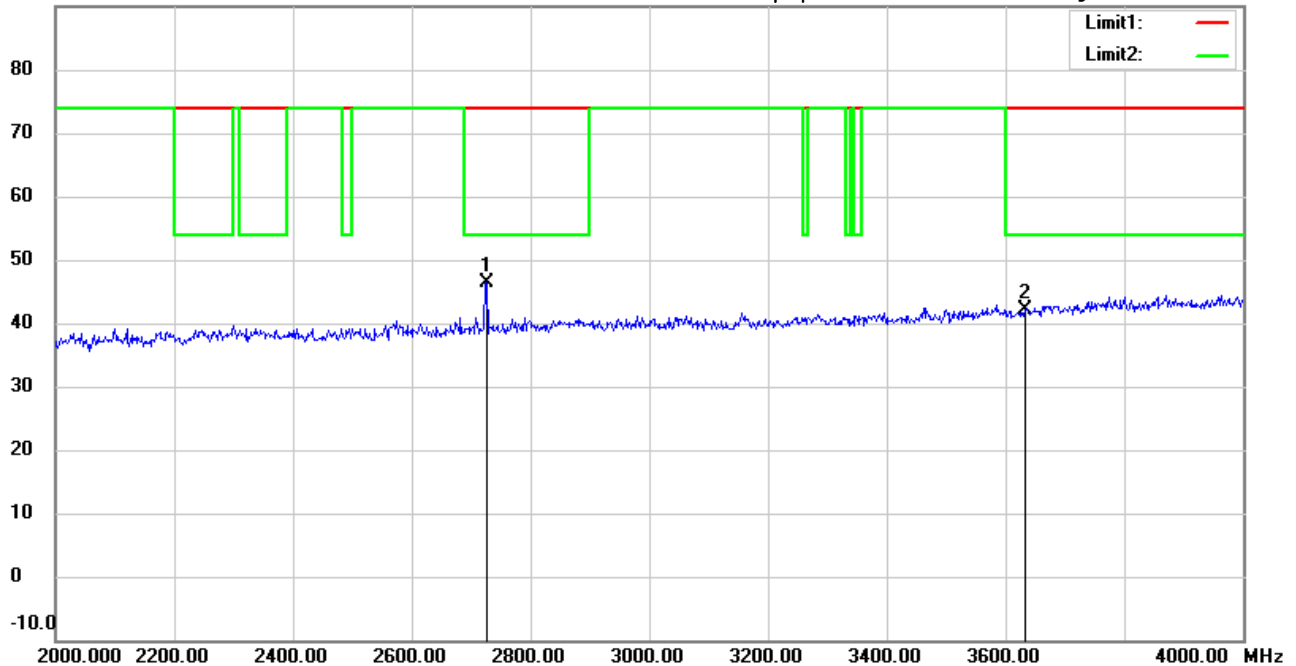
Date: 2025/6/6

Temperature: 26.1 °C

90.0 dBuV/m

Time: 下午 11:25:15

Humidity: 41.1 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4 MHz

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
*	2726.000	49.34	peak	-2.85	46.49	74.00	150	113	-27.51	
	3633.600	41.92	peak	0.10	42.02	74.00	150	28	-31.98	



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: Gino

File : 3

Data : #3

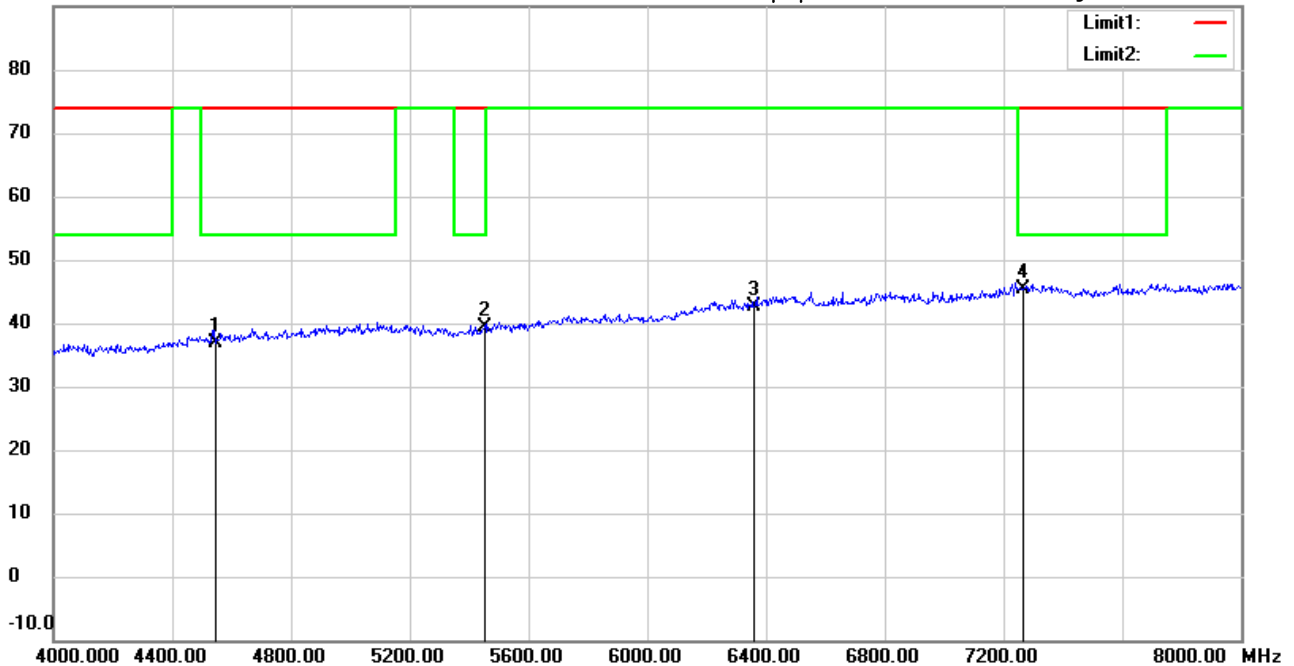
Date: 2025/6/6

Temperature: 26.1 °C

90.0 dBuV/m

Time: 下午 11:23:07

Humidity: 41.1 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4 MHz

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
	4542.000	33.04	peak	3.91	36.95	74.00	150	123	-37.05	
	5450.400	33.70	peak	5.72	39.42	74.00	150	20	-34.58	
	6358.800	32.85	peak	9.90	42.75	74.00	150	288	-31.25	
*	7267.200	33.66	peak	11.77	45.43	74.00	150	196	-28.57	

*: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: Gino

File : 3

Data : #7

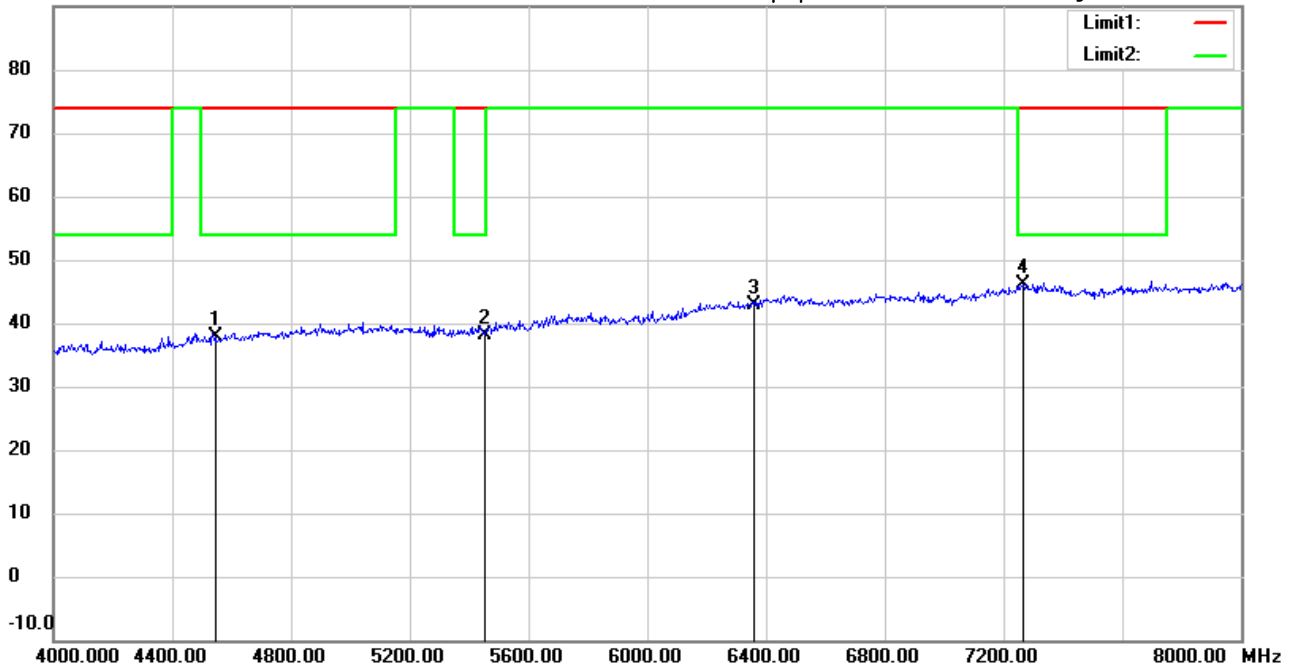
Date: 2025/6/6

Temperature: 26.1 °C

90.0 dBuV/m

Time: 下午 11:25:57

Humidity: 41.1 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4 MHz

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
	4542.000	33.85	peak	3.91	37.76	74.00	150	41	-36.24	
	5450.400	32.53	peak	5.72	38.25	74.00	150	254	-35.75	
	6358.800	33.07	peak	9.90	42.97	74.00	150	96	-31.03	
*	7267.200	34.41	peak	11.77	46.18	74.00	150	331	-27.82	

*: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: Gino

File : 3

Data : #4

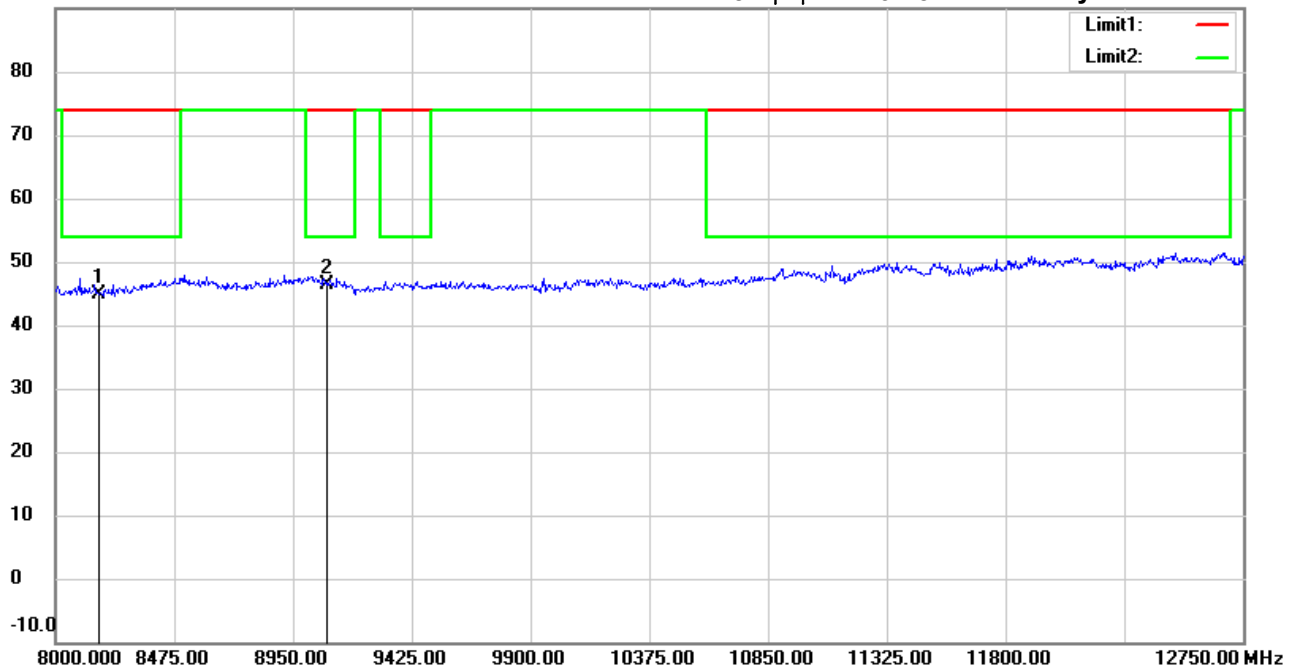
Date: 2025/6/6

Temperature: 26.1 °C

90.0 dBuV/m

Time: 下午 11:23:48

Humidity: 41.1 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4 MHz

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
	8175.600	31.95	peak	13.03	44.98	74.00	150	260	-29.02	
*	9084.000	32.74	peak	13.69	46.43	74.00	150	314	-27.57	

*: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: Gino

File : 3

Data : #8

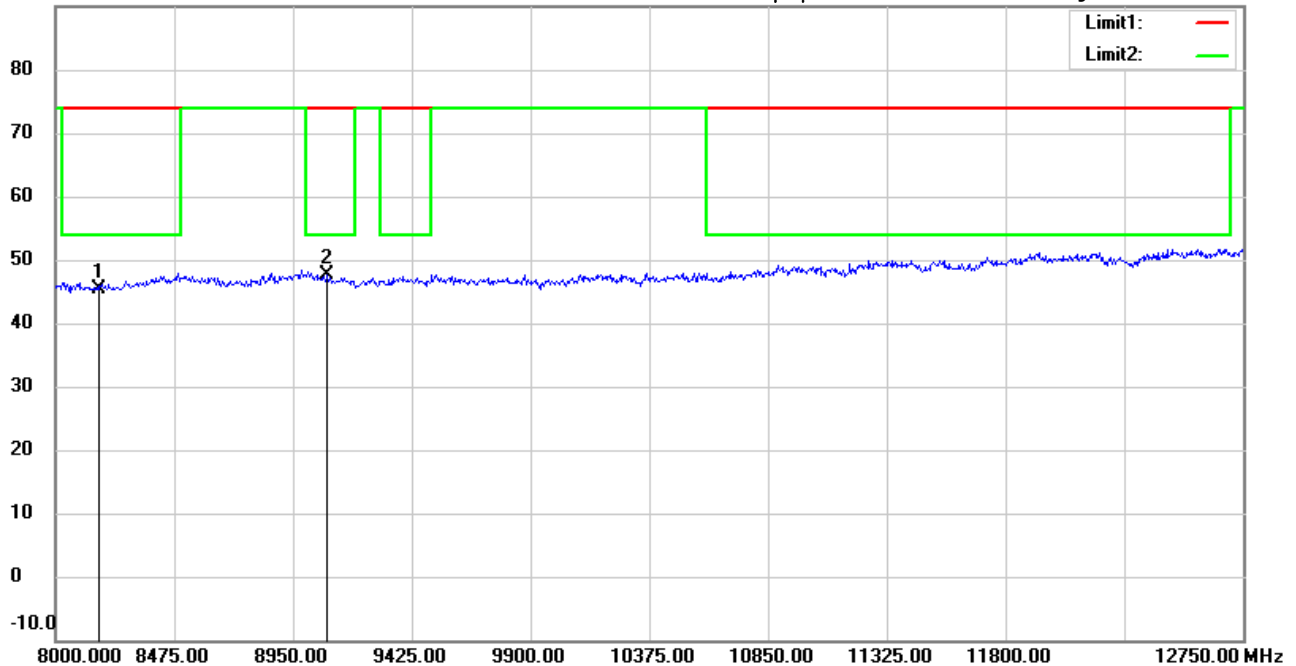
Date: 2025/6/6

Temperature: 26.1 °C

90.0 dBuV/m

Time: 下午 11:26:38

Humidity: 41.1 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4 MHz

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
	8175.600	32.37	peak	13.03	45.40	74.00	150	99	-28.60	
*	9084.000	33.93	peak	13.69	47.62	74.00	150	314	-26.38	

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



Radiated Emission Measurement

Operator: Echo

File :below-1G-2

Data :#1

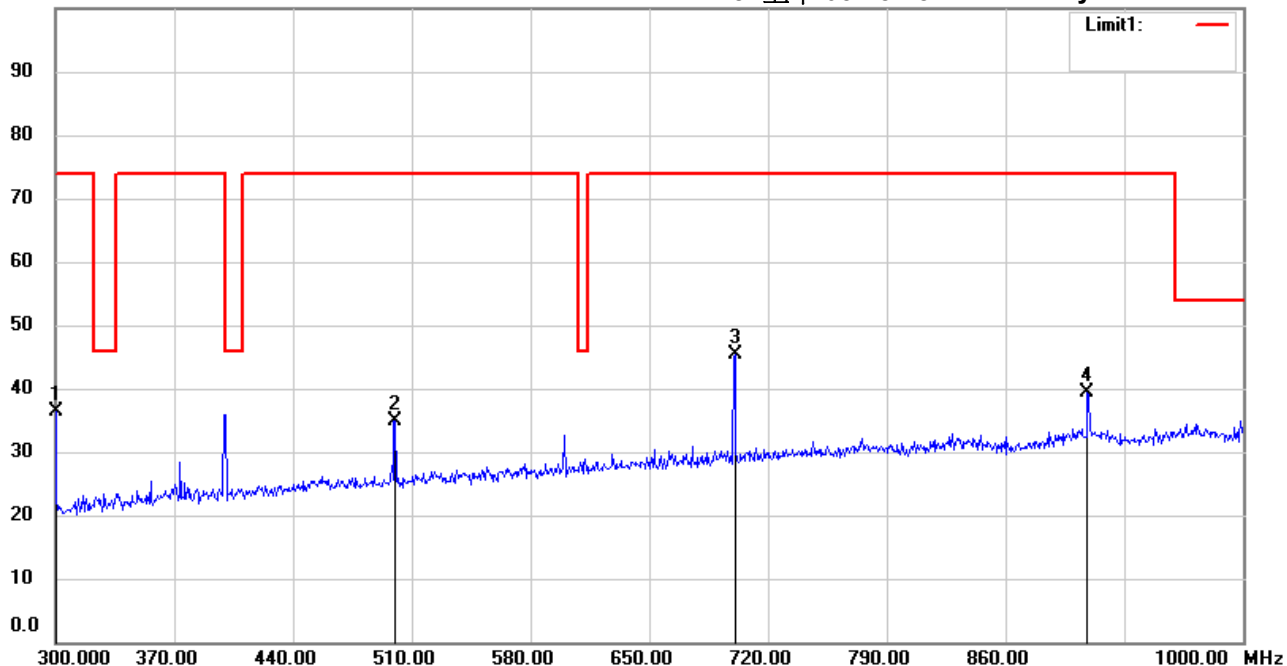
Date: 2025/6/7

Temperature:26.9 °C

100.0 dBuV/m

Time: 上午 05:48:18

Humidity:44.0 %



Site : 966A Chamber

Condition : FCC Restriction Band 300-1000

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4MHz

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
	300.0000	48.48	peak	-12.06	36.42	74.00	100	136	-37.58	
	500.2000	42.43	peak	-7.48	34.95	74.00	100	250	-39.05	
*	700.4000	48.56	peak	-3.27	45.29	74.00	100	250	-28.71	
	908.3000	40.19	peak	-0.90	39.29	74.00	100	289	-34.71	



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 : below-1G-2

Data : #2

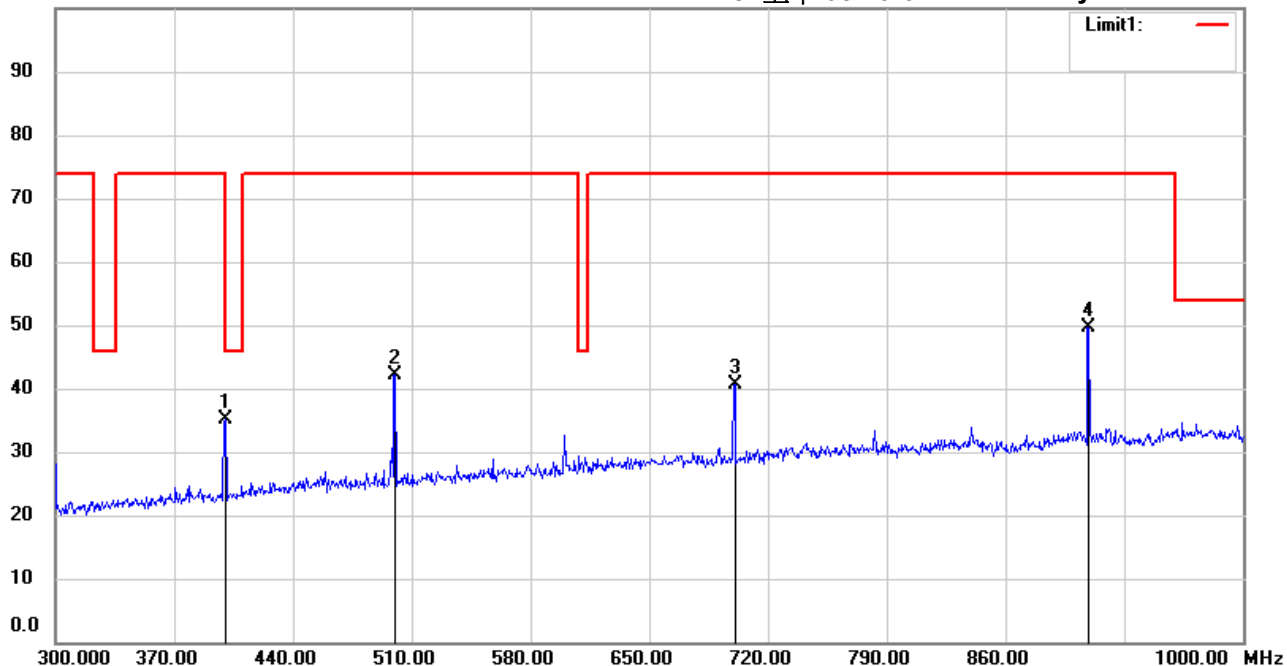
Date: 2025/6/7

Temperature: 26.9 °C

100.0 dBuV/m

Time: 上午 05:49:02

Humidity: 44.0 %



Site : 966A Chamber

Condition : FCC Restriction Band 300-1000

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4MHz

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
*	400.1000	44.82	peak	-9.74	35.08	46.00	100	119	-10.92	
	500.2000	49.61	peak	-7.48	42.13	74.00	100	113	-31.87	
	700.4000	43.86	peak	-3.27	40.59	74.00	100	348	-33.41	
	909.0000	50.60	peak	-0.89	49.71	74.00	100	359	-24.29	

*: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 :below-1G-1

Data :#1

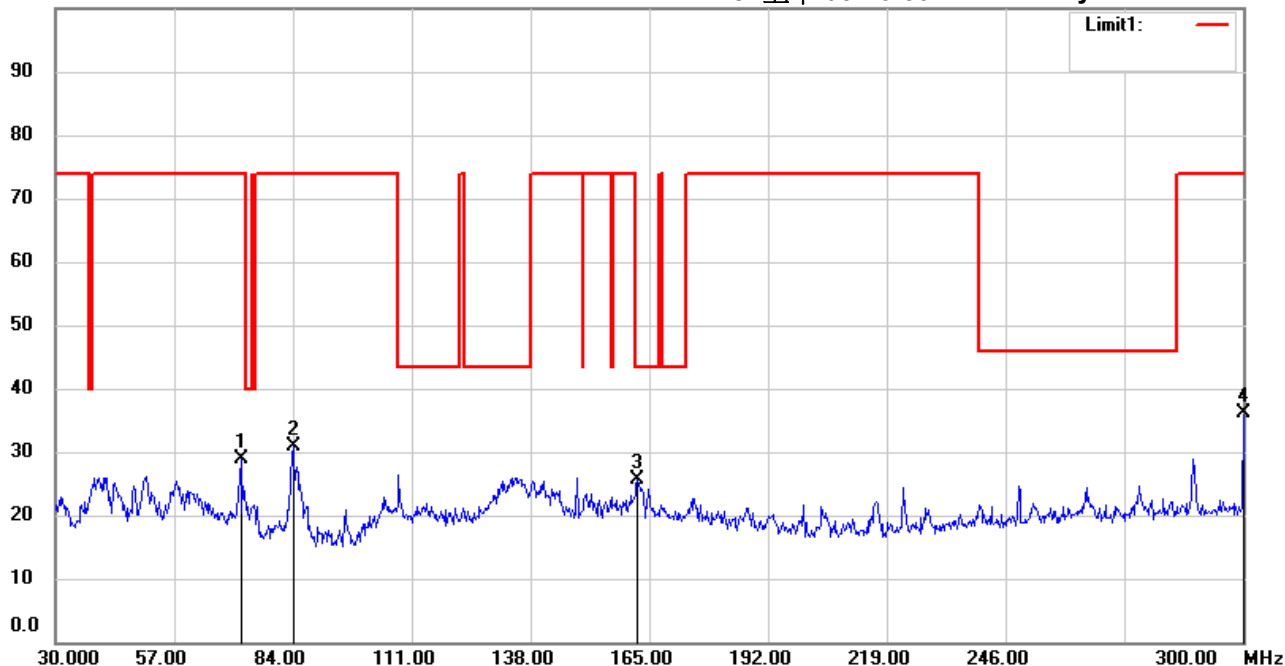
Date: 2025/6/7

Temperature:26.9 °C

100.0 dBuV/m

Time: 上午 05:46:50

Humidity:44.0 %



Site : 966A Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4MHz

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
	72.1200	44.63	peak	-15.66	28.97	74.00	100	190	-45.03	
	84.0000	48.88	peak	-17.99	30.89	74.00	100	123	-43.11	
*	162.3000	37.98	peak	-12.38	25.60	43.50	100	0	-17.90	
	300.0000	48.12	peak	-12.06	36.06	74.00	100	257	-37.94	

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



Radiated Emission Measurement

Operator: Echo

File :below-1G-1

Data :#2

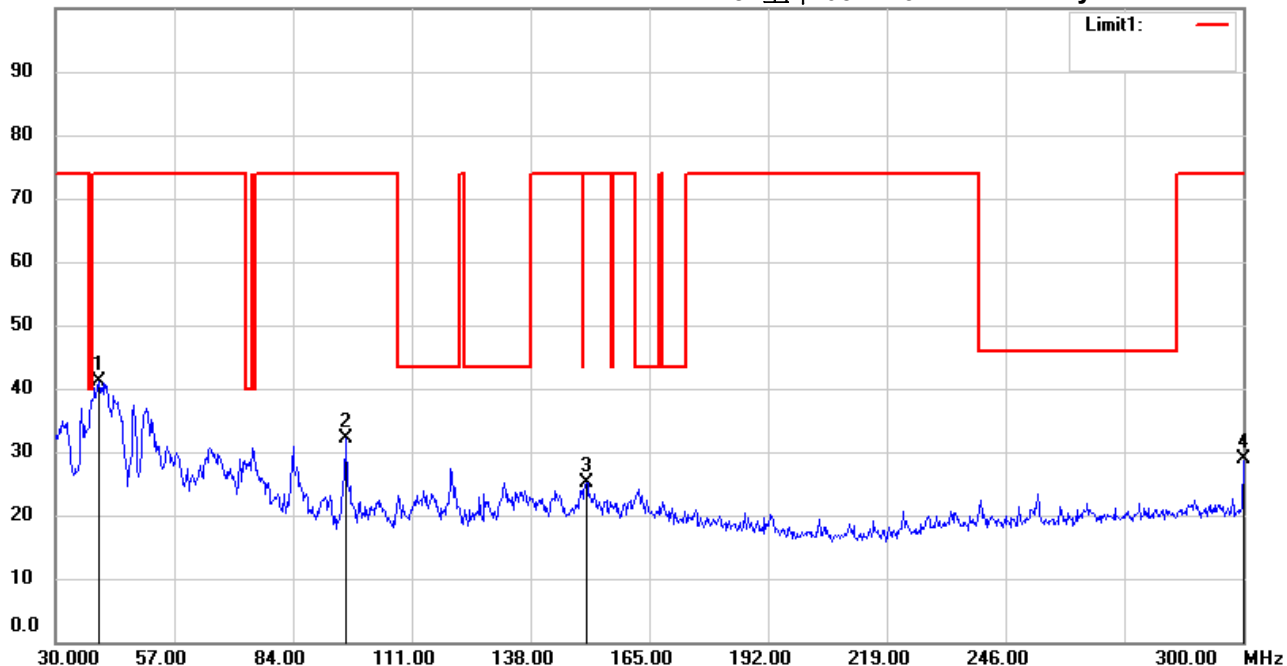
Date: 2025/6/7

Temperature:26.9 °C

100.0 dBuV/m

Time: 上午 05:47:34

Humidity:44.0 %



Site : 966A Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M22505-24445

M/N:

Test Mode : TX 908.4MHz

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
*	39.7200	54.77	peak	-13.69	41.08	74.00	100	6	-32.92	
	96.1500	49.89	peak	-17.76	32.13	74.00	100	1	-41.87	
	150.6900	37.73	peak	-12.53	25.20	74.00	100	6	-48.80	
	300.0000	40.95	peak	-12.06	28.89	74.00	100	78	-45.11	