

47 CFR PART 15 SUBPART C TEST REPORT

for

TRANSMITTER

Model No.: SC-800

FCC ID: NDASC800

of

Applicant: Gold Apollo Co., Ltd.

Address: Rm. 1, 3F., No.77, Sec. 1, Xintai 5th Rd., Xizhi Dist.,
New Taipei City 221, 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.: W6M22412-23971-C-2



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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 19, 2025

Ken Kang

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

June 19, 2025

Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

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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: ./.



Worldwide Testing Services(Taiwan) Co., Ltd.

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1.3 Details of approval holder

Name: Gold Apollo Co., Ltd.
Street: Rm. 1, 3F., No.77, Sec. 1, Xintai 5th Rd., Xizhi Dist.,
City: New Taipei City 221,
Country: Taiwan (R.O.C.)

1.4 Application details

Date of receipt of test item: February 10, 2025
Date of test: from February 11, 2025 to May 27, 2025

1.5 General information of Test item

Type of test item: TRANSMITTER

Model number: SC-800

Brand name: Gold Apollo

Multi-listing model number: SC-800A, SC-800AD, SC-800N, SC-800T,
SC-800R, SC-800TR, SC-800S

Sample no.: #03

Technical data

Operating frequency band:

Frequency(MHz)	Used Band
450~470MHz	☒
851~896MHz	☐

Type of modulation: FM

Designation of emission: 4K68F1D (450~470MHz)

Antenna type / gain: Monopole Helical antenna / 2dBi

Connection of antenna: ☒ detachable ☐ not detachable

Power rating: Adapter (I/P: 100-240V~50/60Hz, 0.3A
O/P: 5.0V, 2.0A, 10.0W L.P.S)

Operation modes: Simplex



Worldwide Testing Services(Taiwan) Co., Ltd.

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Manufacturer: (if applicable)

Name: ./.

Street: ./.

Town: ./.

Country: ./.

1.6 Test standards

Technical standard: 47 CFR PART 90 (2023-10)

TIA-603-E



Registration number: W6M22412-23971-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

Test item Name	Uncertainty
Estimation Result of Uncertainty of 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-966A)	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, Occupied bandwidth, Channel bandwidth, Necessary Bandwidth	Expanded Uncertainty : 0.37 kHz
Estimation Result of Uncertainty of Conducted Output Power Measurement Output power	Expanded Uncertainty : 1.63 dB
Estimation Result of Uncertainty of Conducted Spurious Emission Measurement Conducted spurious emission 、 Spectrum emission mask	Expanded Uncertainty : 1.69 dB
Estimation Result of Uncertainty of EIRP Measurement EIRP 、 ERP 、 Output power(dBm) 、 Radiated spurious emission(dBm), Receiver spurious radiations (≥ 30 MHz)	Expanded Uncertainty : 30-200MHz : 2.05 dB 200-1000MHz : 2.04 dB 1-18GHz : 3.93 dB 18-40GHz : 2.89 dB

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



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2.3 Description of Tested System

The EUT was tested with the Accessories or Peripherals Listed below:

Equipment	Model No.	Series No.	Software	Cable information	Note
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--

Explanation: The EUT was configured as stand alone device, and there are no accessories or peripherals during the test.



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2.4 Test Equipment List

Conducted RF Output power & Emission Mask & Conducted Spurious

Emission & Occupied Bandwidth & 26db Bandwidth

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	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

Frequency stability

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	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
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2024/7/23	2025/7/22

Spurious Emission & Radiated RF Power (966A 30-1000MHz)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2025/4/9	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-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+	

Spurious Emission (966A 1-18GHz)

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 160	Amplifier Module	CHC 3	None	WTS	2024/7/12	2025/7/11
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+	



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Transient Behavior

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2025/2/14	2026/2/13
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
ETSTW-RE 155	Signal and Spectrum Analyzer	FSV3044	101136	R&S	2025/4/10	2026/4/9

2.5 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.10-2013 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 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 100 kHz 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.

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

Measurements were made by at the registered open field test site located at The Registration Number: 930600. 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.



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3. Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Modulation Characteristics	2.1047(a) (b); 2.1033(c)	☐	☐	☐
Frequency stability.	90.213	☒	☒	☐
Transmitter Output Power	90.205	☒	☒	☐
Emission masks	90.210	☒	☒	☐
Transmitter Spurious Radiated Emission	90.210	☒	☒	☐
Transmitter Spurious Conducted Emission	90.210	☒	☒	☐
Transient frequency behavior	90.214	☒	☒	☐
Receiver Radiated Spurious Emission	FCC part 15B	☐	☐	☐

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4. Modulation Characteristics

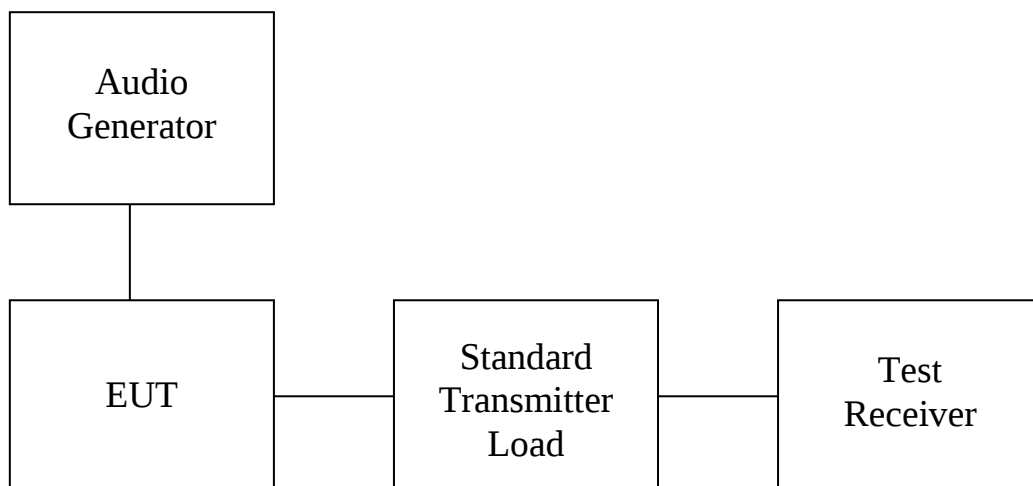
4.1 Test procedure

Modulation limiting is the transmitter circuit's ability to limit the transmitter from producing deviations in excess of rated system deviation.

The audio signal generator is connected to the audio input of the EUT with its full rating.

The modulation response is measured at certain modulation frequencies, related to 1000Hz reference signal. Tests are performed for positive and negative modulation.

4.2 Test Setup





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4.3 Test results

4.3.1 Audio Frequency Response

Test date: --

Temperature: -- °C

Humidity: -- %

Tester: --

Rule Part No.: Part 2.1047(a)(b) Method of Measurement: The audio frequency response was measured in accordance with TIA/EIA Specification 603 with no exception. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 300 – 3000Hz shall be submitted. The audio frequency response curve is shown below.

Test Audio level (1kHz and 20% max. deviation): 25mV

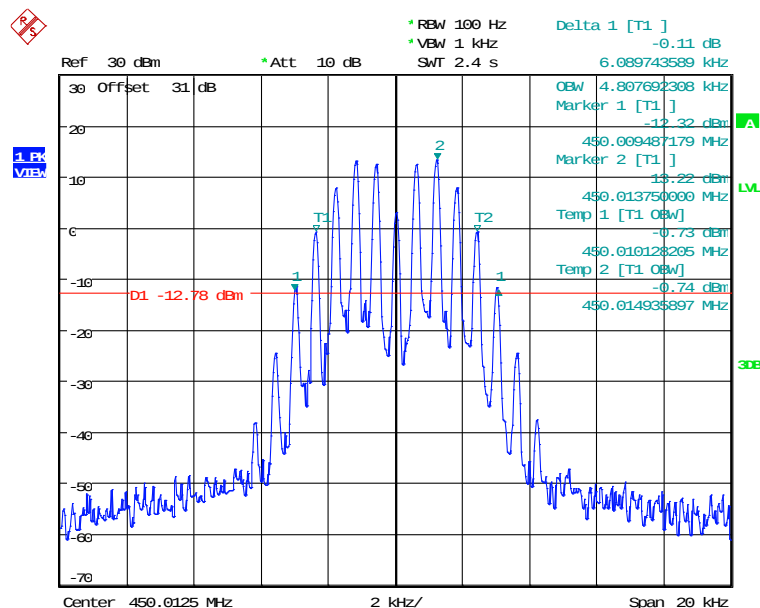
4.3.3 Necessary Bandwidth

Test date: May 27, 2025

Temperature: 24.6°C

Humidity: 55.0%

Tester: Ken



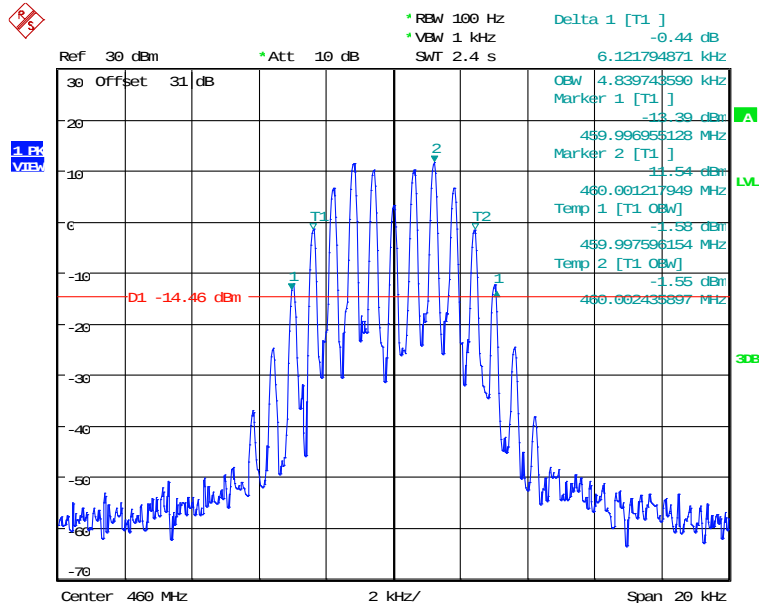
NECESSARY BANDWIDTH 450.0125MHz

Date: 27.MAY.2025 14:37:21

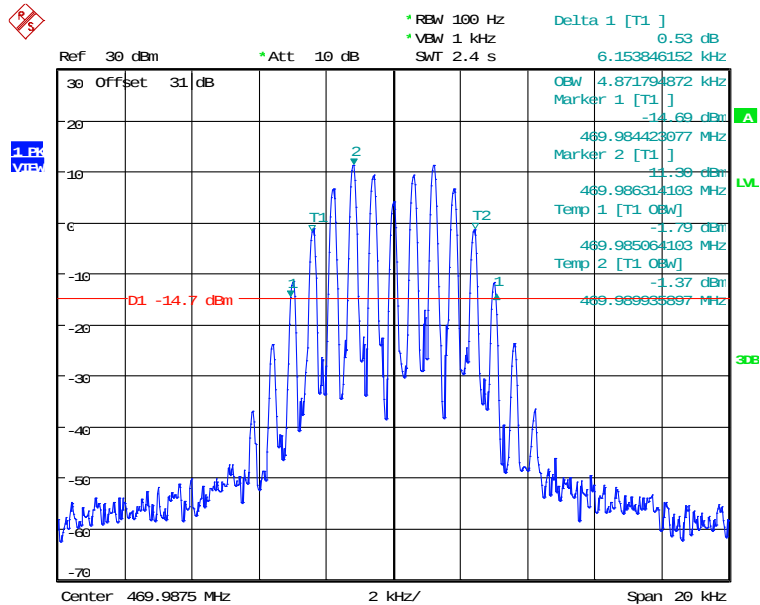


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NECESSARY BANDWIDTH 460MHz
Date: 27.MAY.2025 14:38:49



NECESSARY BANDWIDTH 469.9875MHz
Date: 27.MAY.2025 14:40:16

Registration number: W6M22412-23971-C-2

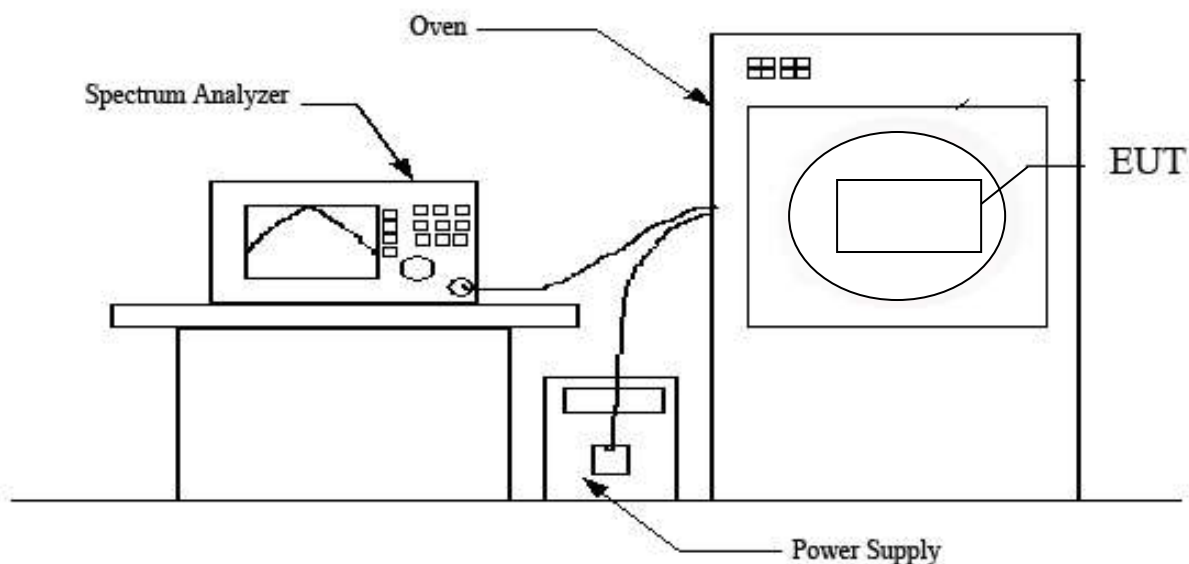
FCC ID: NDASC800

5. Frequency stability

5.1 Test Procedures

1. The transmitter output is connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 1kHz and VBW to 1kHz.
3. Use peak detector mode, Max-hold and search the peak of trace 1.
4. According to the part 2.1055(d)(1), the supply voltage has to be changed from 85 to 115 percent of the nominal value.
5. According to the part 2.1055(a)(1), extreme temperature has to be changed from -20°C to 50°C.
6. Read the frequency of the carrier and calculate the deviation.

5.2 Test Setup





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5.3 Test Result

Test date: March 25, 2025

Temperature: 23.5°C

Humidity: 55.0%

Tester: Ken

Nominal Frequency : 450.0125MHz	
Voltage V.S Frequency Stability	
Voltage	Measurement Frequency
120 V	450.0125769
138 V	450.0125769
102 V	450.0125769
Max Deviation (MHz)	0.000076923
Max Deviation (ppm)	0.170935252
Limit (ppm)	2.5
Temperature V.S Frequency Stability	
Temperature	Measurement Frequency
-30	450.0125769
-20	450.0125769
-10	450.0125769
0	450.0125769
10	450.0125769
20	450.0125769
30	450.0124167
40	450.0124167
50	450.0124167
Max Deviation (MHz)	-0.000083
Max Deviation (ppm)	-0.1851793
Limit (ppm)	2.5



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Nominal Frequency : 460MHz	
Voltage V.S Frequency Stability	
Voltage	Measurement Frequency
120 V	459.9998769
138 V	459.9998769
102 V	459.9998769
Max Deviation (MHz)	-0.000123077
Max Deviation (ppm)	-0.267558696
Limit (ppm)	2.5
Temperature V.S Frequency Stability	
Temperature	Measurement Frequency
-30	459.9998769
-20	459.9998769
-10	459.9998769
0	459.9998769
10	459.9998769
20	459.9998769
30	459.9997532
40	459.9997532
50	459.9997532
Max Deviation (MHz)	-0.000247
Max Deviation (ppm)	-0.536521739
Limit (ppm)	2.5



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Nominal Frequency : 469.9875MHz	
Voltage V.S Frequency Stability	
Voltage	Measurement Frequency
120 V	469.9874038
138 V	469.9874038
102 V	469.9874038
Max Deviation (MHz)	-0.000096154
Max Deviation (ppm)	-0.20458842
Limit (ppm)	2.5
Temperature V.S Frequency Stability	
Temperature	Measurement Frequency
-30	469.9874038
-20	469.9874038
-10	469.9874038
0	469.9874038
10	469.9874038
20	469.9874038
30	469.9873059
40	469.9873059
50	469.9873059
Max Deviation (MHz)	-0.000194
Max Deviation (ppm)	-0.412989707
Limit (ppm)	2.5

Registration number: W6M22412-23971-C-2

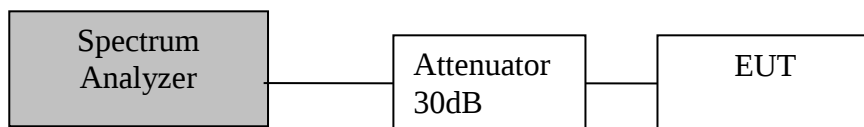
FCC ID: NDASC800

6. Transmitter Output Power

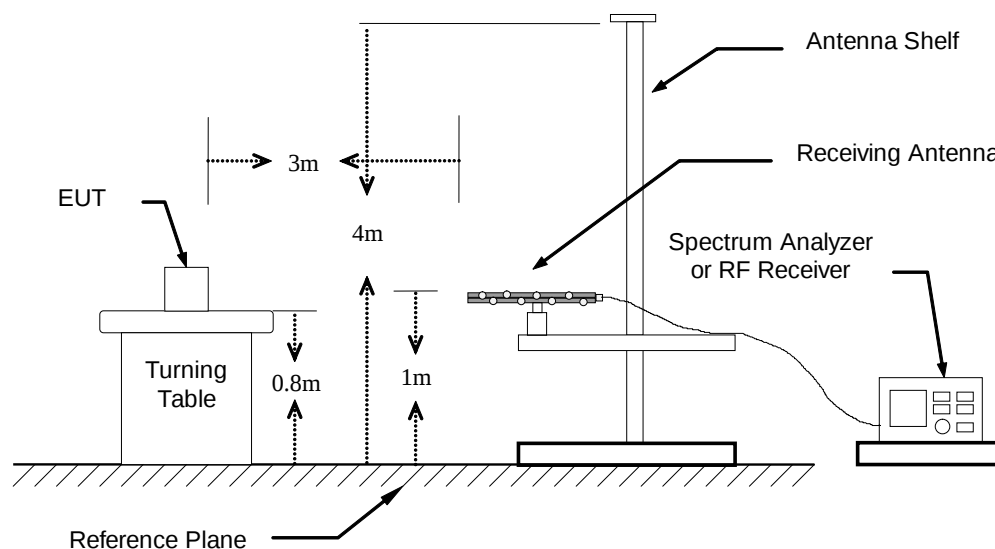
6.1 Test Procedures

1. The EUT was placed on the top of the turntable in semi-anechoic chamber.
2. The test shall be made in the transmitting mode. Antenna tower was scan (from 1 M to 4 M) and the turn table was rotated by 360 degrees to determine the position of the highest radiation.
3. The receiving Horn antenna was placed 0.5 meters far away from the turntable.
4. The receiving antenna was fixed on the same height with the EUT to find maximum suspected emissions. Recorded suspected value is indicated as Read Level (Raw).
5. Replace the EUT by standard antenna and feed the RF port by signal generator.
6. Adjust the frequency of the signal generator to the suspected emission and slightly rotate the turntable to locate the position with maximum reading.
7. Adjust the power level of the signal generator to reach the same reading with Read Level (Raw).
8. The level of the spurious emission is the power level of (7) plus the gain of the standard antenna in dBd and minus the loss of the cable used between the signal generator and the standard antenna.

6.2 Test Setup



Setup for Conducted Power



Setup for Radiated Power



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6.3 Test Result

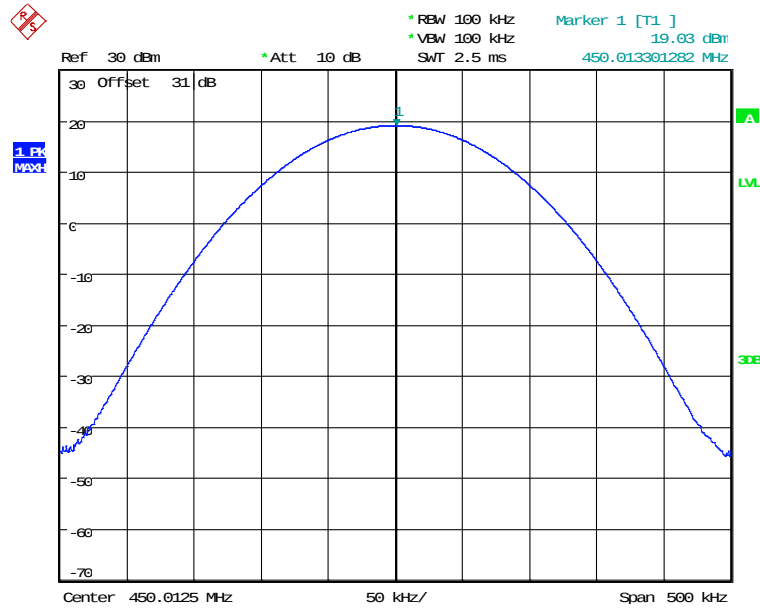
Test date: May 27, 2025

Temperature: 24.6°C

Humidity: 55.0%

Tester: Ken

6.3.1 Conducted Power



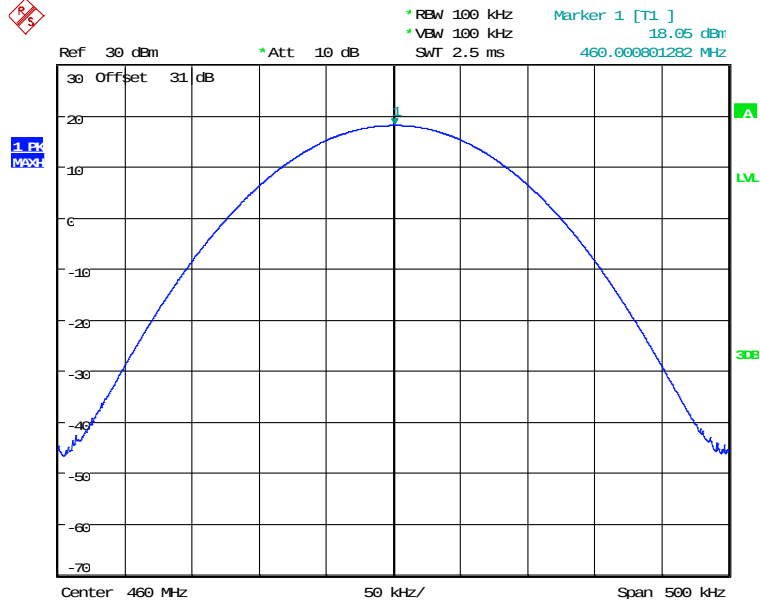
MAX OUTPUT POWER 450.0125MHz

Date: 27.MAY.2025 14:24:34



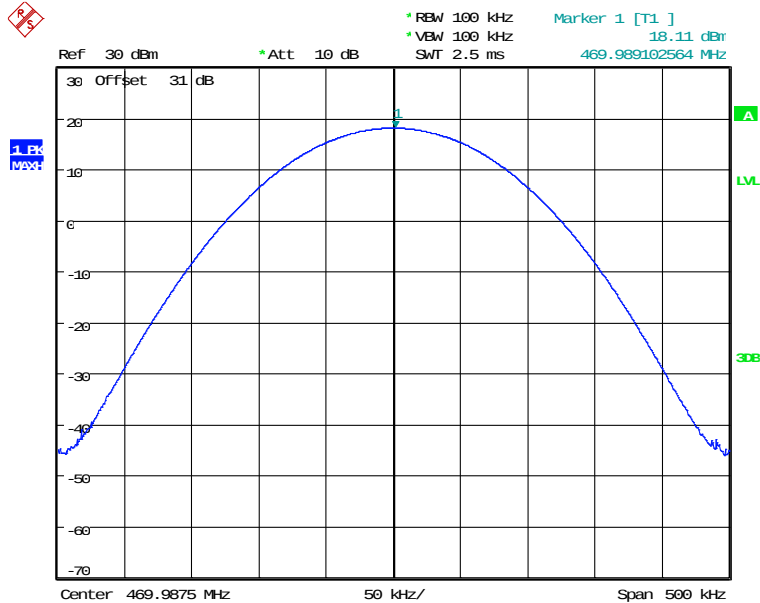
Registration number: W6M22412-23971-C-2

FCC ID: NDASC800



MAX OUTPUT POWER 460MHz

Date: 27.MAY.2025 14:23:14



MAX OUTPUT POWER 469.9875MHz

Date: 27.MAY.2025 14:22:15



Registration number: W6M22412-23971-C-2

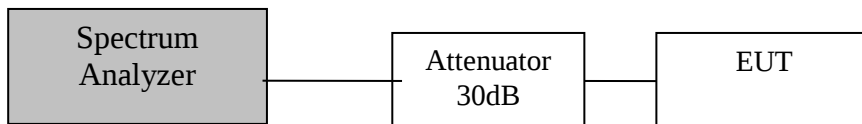
FCC ID: NDASC800

7. Emission masks

7.1 Test Procedures

1. The transmitter output is connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 300Hz and VBW to 1 kHz.
3. Mark the frequency with maximum peak power as the center of the display of the spectrum
4. Set the span to 120 kHz and the sweep time to Auto.
5. Record the power spectral and compare to the Mask.

7.2 Test Setup



7.3 Test Result

Test date: May 27, 2025

Temperature: 24.6°C

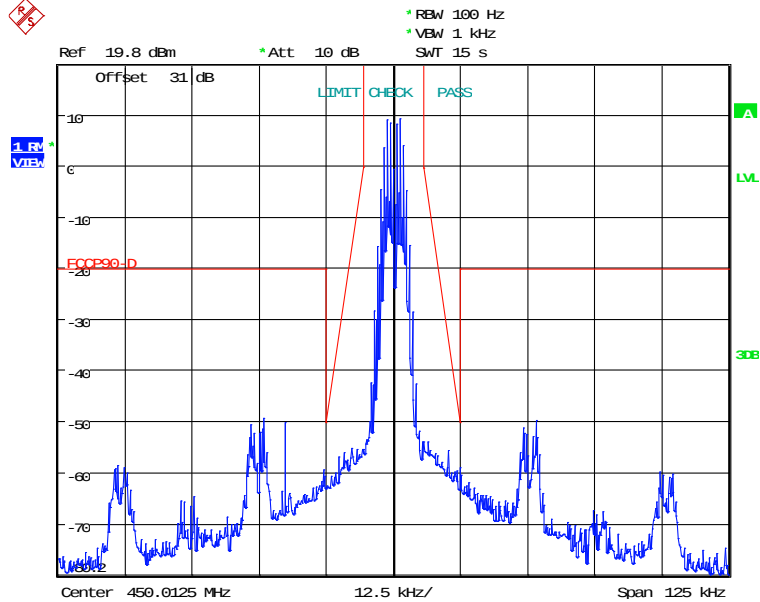
Humidity: 55.0%

Tester: Ken



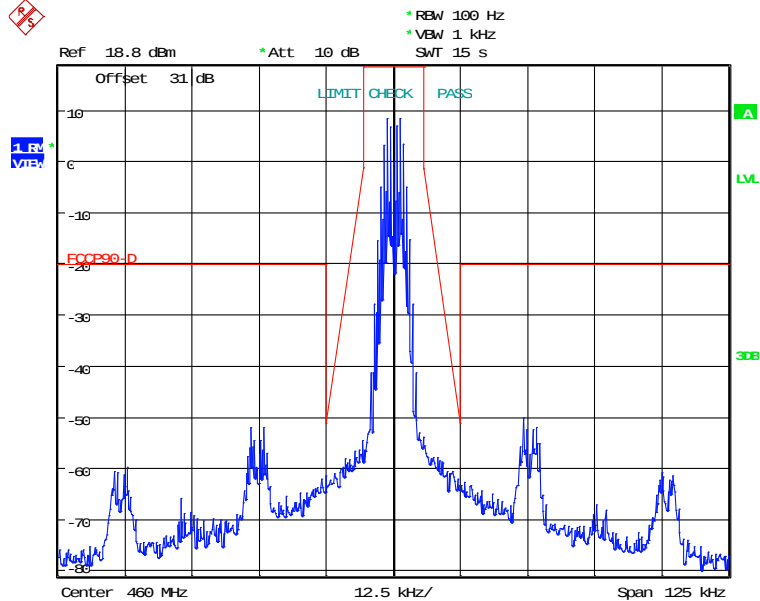
Registration number: W6M22412-23971-C-2

FCC ID: NDASC800



EMISSION MASK 12.5K 450.0125MHz

Date: 27.MAY.2025 14:32:39



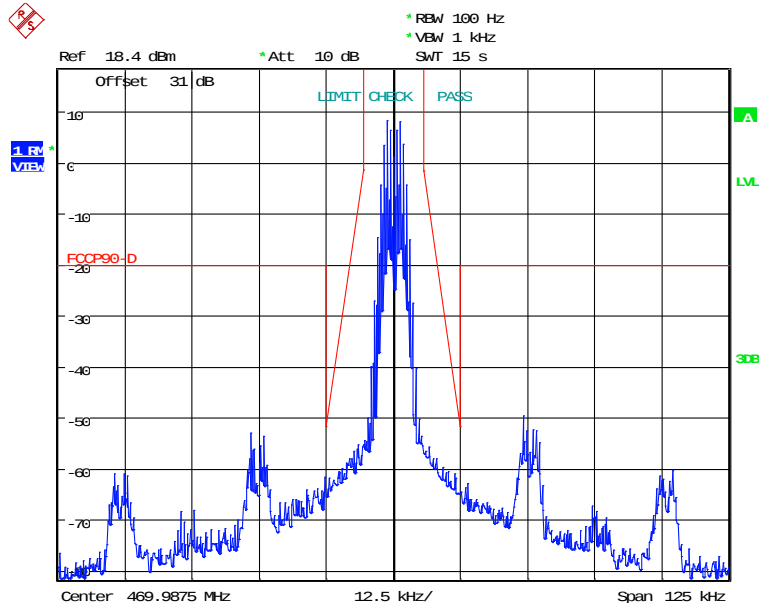
EMISSION MASK 12.5K 460MHz

Date: 27.MAY.2025 14:14:09



Registration number: W6M22412-23971-C-2

FCC ID: NDASC800



EMISSION MASK 12.5K 469.9875MHz

Date: 27.MAY.2025 14:20:41

Limit according to FCC § 90.210: 12.5 kHz: Emission Mask D / 25 kHz: Emission Mask B.

Registration number: W6M22412-23971-C-2

FCC ID: NDASC800

8. Transmitter Spurious Radiated Emission

8.1 Test Procedures

The EUT was positioned on a non-conductive turntable, 0.8m above the ground plane.

The radiated emission at the fundamental frequency was measured at 3 m distance with a test antenna and spectrum analyzer.

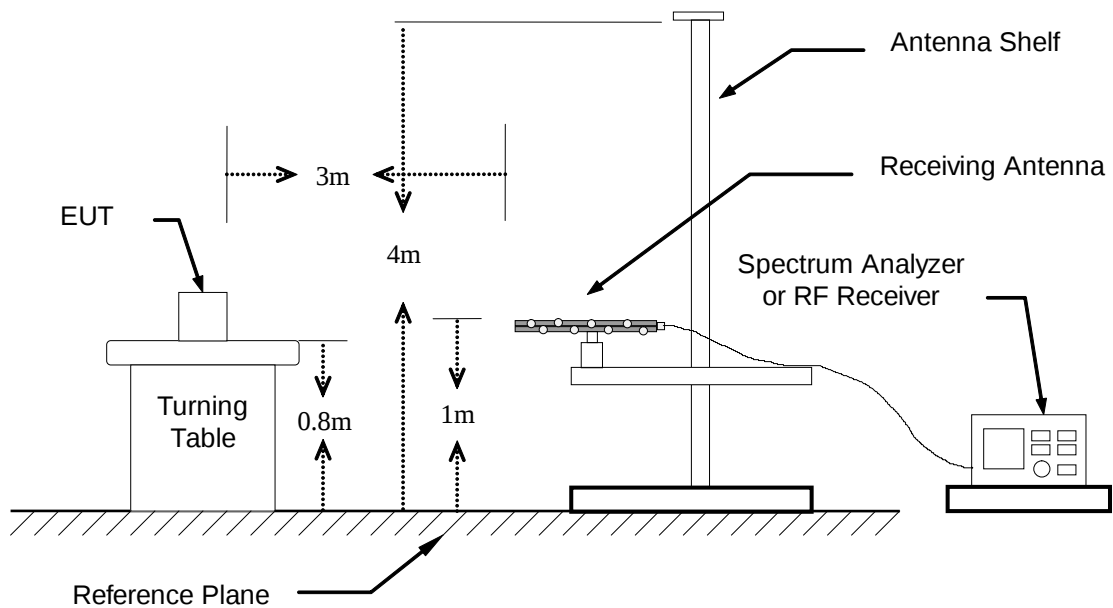
Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

ERP was measured using a substitution method. The EUT was replaced by reference antenna connected to a signal generator.

The test of spurious radiated emission has been carried out with the validated test software. The measurements below 1GHz were performed with a measurement bandwidth of 100 kHz, above 1GHz with a bandwidth of 1MHz.

Spurious emission limits near the carrier are defined by an emission mask.

8.2 Test Setup





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22412-23971-C-2

FCC ID: NDASC800

8.3 Test Result

Model: SC-800

Date: --

Mode: --

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.**

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



Registration number: W6M22412-23971-C-2

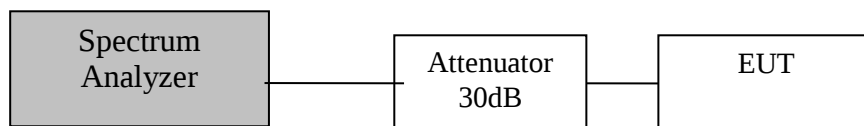
FCC ID: NDASC800

9. Transmitter Spurious Conducted Emission

9.1 Test Procedures

1. The transmitter output is connected to the spectrum analyzer through an attenuator.
2. Adjust the spectrum analyzer for the following settings:
 - Resolution Bandwidth = 100 kHz for spurious emissions below 1 GHz and 1 MHz for spurious emissions above 1GHz.
 - Video Bandwidth = 100 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1 GHz.
 - Sweep Speed slow enough to maintain measurement calibration. Detector Mode = Positive Peak.
3. Limits= $P \text{ (dBm)} + 10\log(P(W)) = -13\text{dBm}$

9.2 Test Setup



9.3 Test Result

Test date: April 25, 2025

Temperature: 25.1°C

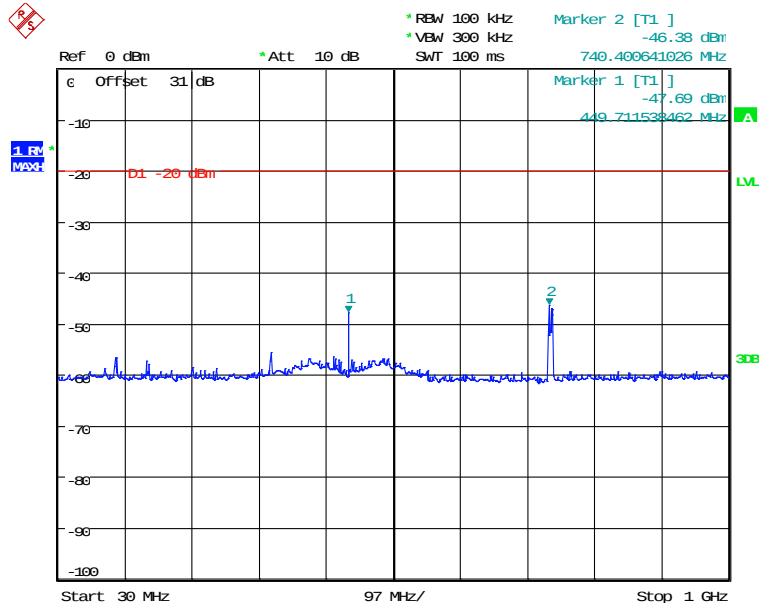
Humidity: 60.0%

Tester: Ken



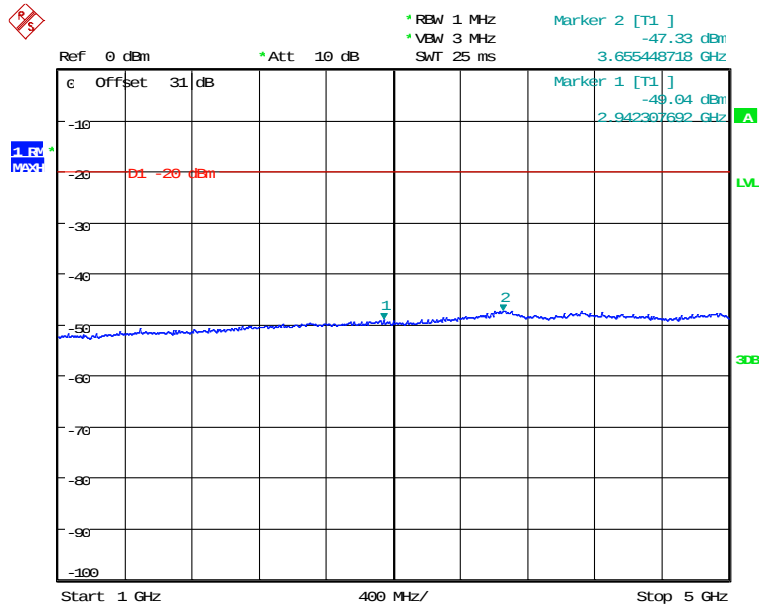
Registration number: W6M22412-23971-C-2

FCC ID: NDASC800



CONDUCTED SPURIOUS EMISSION 450.0125MHz

Date: 25.APR.2025 09:37:06



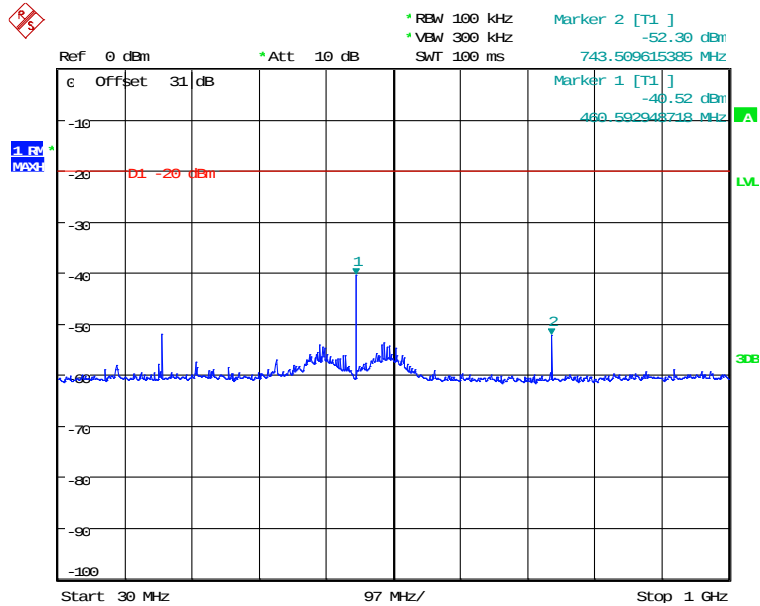
CONDUCTED SPURIOUS EMISSION 450.0125MHz

Date: 25.APR.2025 09:44:52



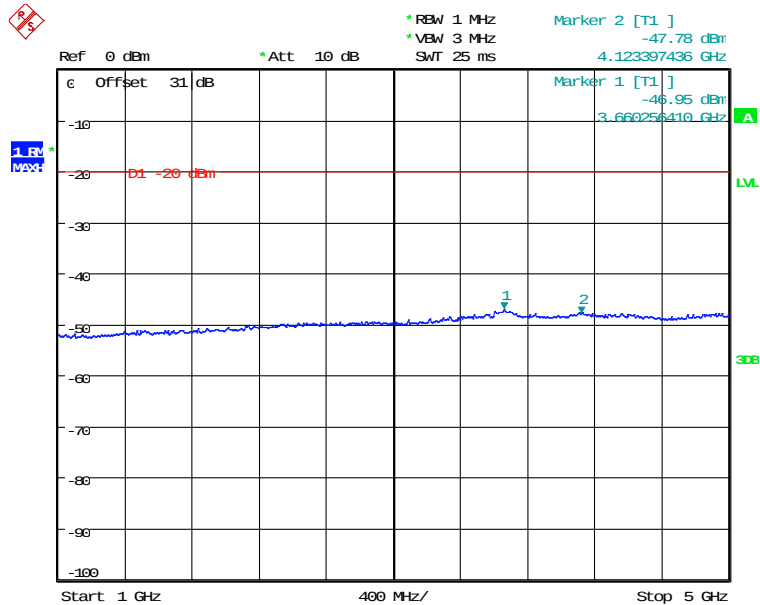
Registration number: W6M22412-23971-C-2

FCC ID: NDASC800



CONDUCTED SPURIOUS EMISSION 460MHz

Date: 25.APR.2025 09:29:41



CONDUCTED SPURIOUS EMISSION 460MHz

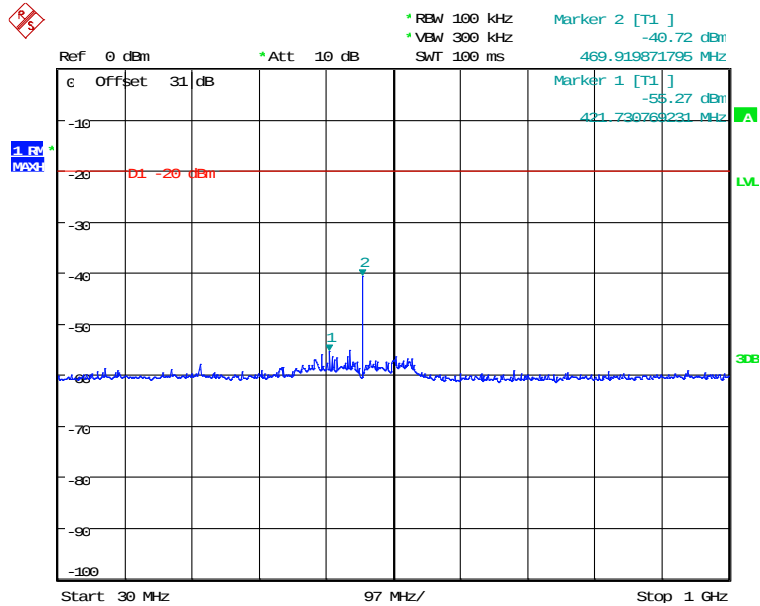
Date: 25.APR.2025 09:45:44



Worldwide Testing Services(Taiwan) Co., Ltd.

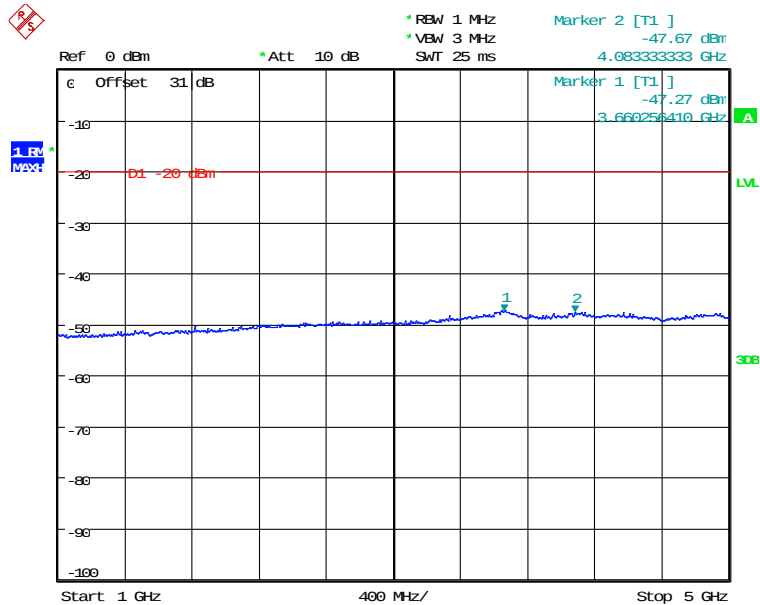
Registration number: W6M22412-23971-C-2

FCC ID: NDASC800



CONDUCTED SPURIOUS EMISSION 469.9875MHz

Date: 25.APR.2025 09:53:26



CONDUCTED SPURIOUS EMISSION 469.9875MHz

Date: 25.APR.2025 09:51:23



Registration number: W6M22412-23971-C-2

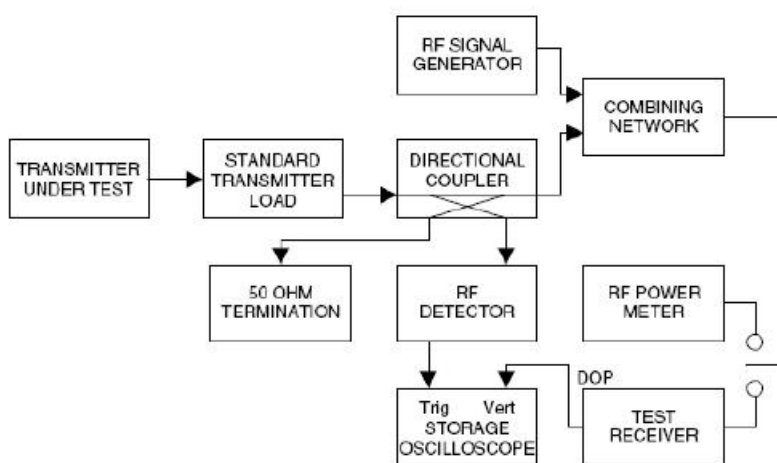
FCC ID: NDASC800

10. Transient frequency behavior

10.1 Test Procedures

1. SG to the assigned transmitter frequency and modulate it with a 1 kHz tone at ± 25 kHz deviation and set its output level to below 30dB of EUT signal level to receiver.
2. Set the horizontal sweep rate on the storage oscilloscope to 10 ms per division and adjust the display to continuously view the 1000 Hz tone from the DOP. Adjust the vertical amplitude control of the oscilloscope to display the 1000 Hz at ± 4 divisions vertically centered on the display.
3. Transmitter on and observe the stored display. The output at the DOP, due to the change in the ratio of power between the signal generator input power and the transmitter output power will, because of the capture effect of the test receiver, produce a change in display: For the first part of the sweep it will show the 1 kHz test signal. Then once the receiver's demodulator has been captured by the transmitter power, the display will show the frequency difference from the assigned frequency to the actual transmitter frequency versus time. The instant when the 1 kHz test signal is completely suppressed (including any capture time due to phasing) is considered to be ton. The trace should be maintained within the allowed divisions during the period t1 and t2. See the figure in the appropriate standards section.
4. During the time from the end of t2 to the beginning of t3 the frequency difference should not exceed the limits set by the FCC in 47 CFR 90.214 and outlined in 3.2.2. The allowed limit is equal to the transmitter frequency times its FCC frequency tolerance times ± 4 display divisions divided by 25 kHz. For example, at a transmitter assigned frequency of 500 MHz and a frequency tolerance of 5 ppm. This would be 500 MHz times 5 ppm times ± 4 divisions divided by 25 kHz. This equals ± 0.4 divisions in this example. Greater vertical sensitivity may be required to view this accurately
5. Adjust the oscilloscope trigger controls so it will trigger on a decreasing magnitude from the RF peak detector, at 1 division from the right side of the display, when the transmitter is turned off. Set the controls to store the display. The moment when the 1 kHz test signal starts to rise is considered to provide toff.

10.2 Test Setup





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22412-23971-C-2

FCC ID: NDASC800

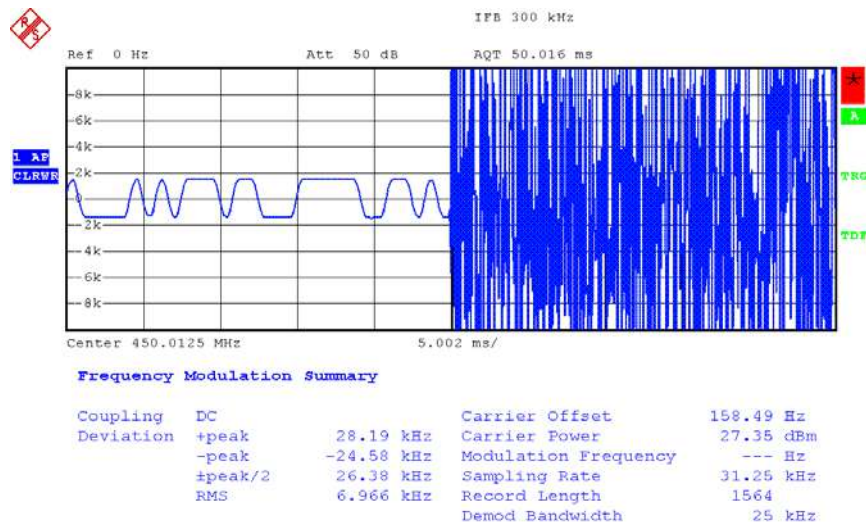
10.3 Test Result

Test date: March 25, 2025

Temperature: 23.5°C

Humidity: 55.0%

Tester: Ken



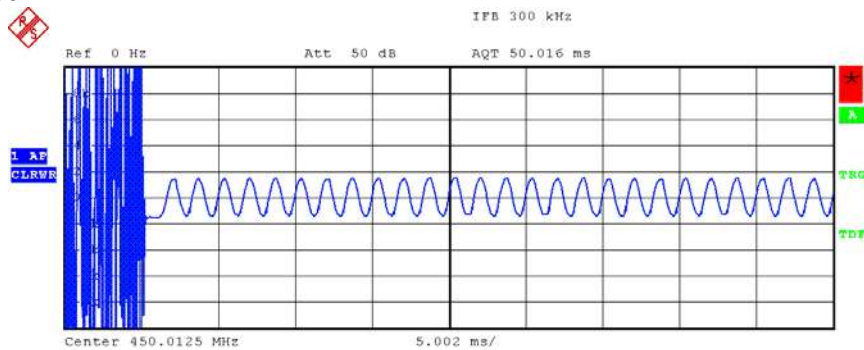
Date: 25.MAR.2025 10:31:24



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22412-23971-C-2

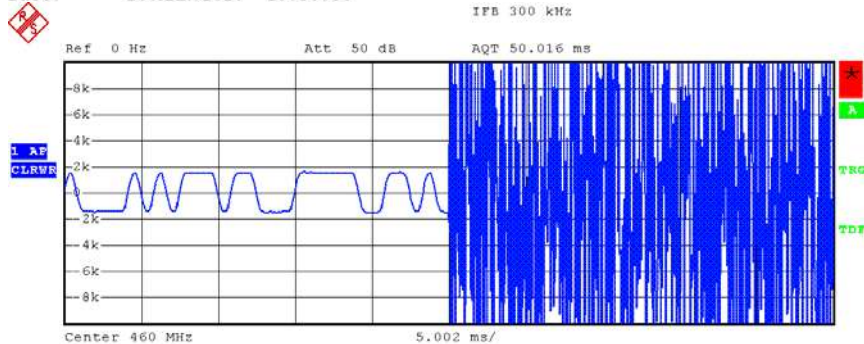
FCC ID: NDASC800



Frequency Modulation Summary

Coupling	DC	Carrier Offset	56.863 Hz
Deviation	+peak 26.01 kHz	Carrier Power	30.33 dBm
	-peak -37.20 kHz	Modulation Frequency	--- Hz
	+peak/2 31.61 kHz	Sampling Rate	31.25 kHz
	RMS 3.578 kHz	Record Length	1564
		Demod Bandwidth	25 kHz

Date: 25.MAR.2025 10:30:38



Frequency Modulation Summary

Coupling	DC	Carrier Offset	343.54 Hz
Deviation	+peak 38.69 kHz	Carrier Power	27.55 dBm
	-peak -22.92 kHz	Modulation Frequency	--- Hz
	+peak/2 30.80 kHz	Sampling Rate	31.25 kHz
	RMS 6.811 kHz	Record Length	1564
		Demod Bandwidth	25 kHz

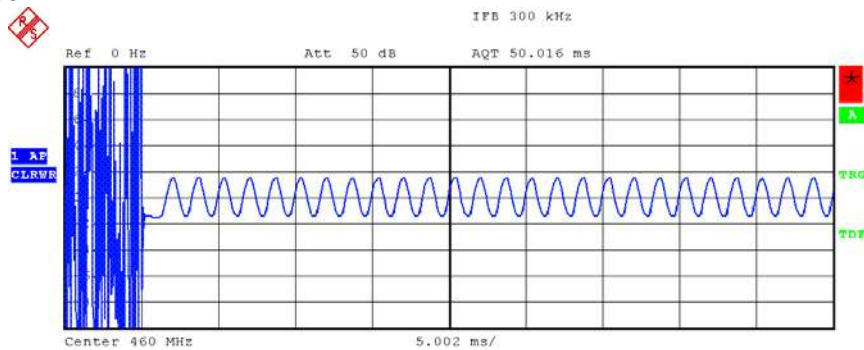
Date: 25.MAR.2025 10:32:13



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22412-23971-C-2

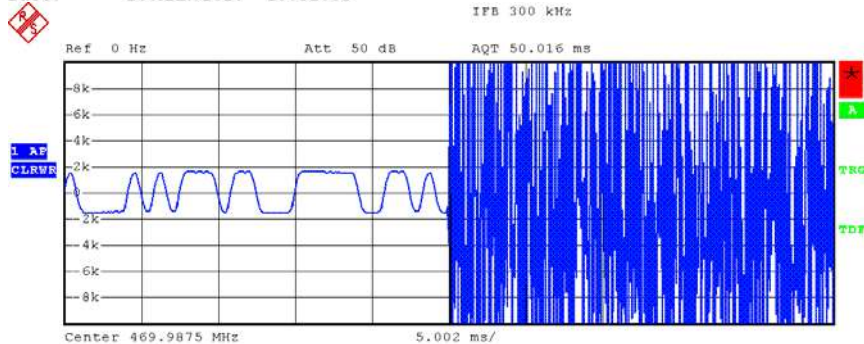
FCC ID: NDASC800



Frequency Modulation Summary

Coupling	DC	Carrier Offset	48.955 Hz
Deviation	+peak 30.23 kHz	Carrier Power	30.60 dBm
	-peak -31.94 kHz	Modulation Frequency	--- Hz
	+peak/2 31.08 kHz	Sampling Rate	31.25 kHz
	RMS 3.381 kHz	Record Length	1564
		Demod Bandwidth	25 kHz

Date: 25.MAR.2025 10:32:53



Frequency Modulation Summary

Coupling	DC	Carrier Offset	79.981 Hz
Deviation	+peak 29.12 kHz	Carrier Power	27.33 dBm
	-peak -31.09 kHz	Modulation Frequency	--- Hz
	+peak/2 30.10 kHz	Sampling Rate	31.25 kHz
	RMS 6.807 kHz	Record Length	1564
		Demod Bandwidth	25 kHz

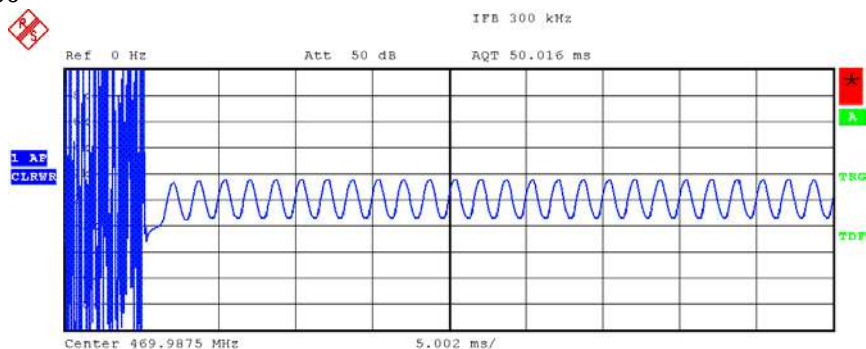
Date: 25.MAR.2025 10:28:29



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22412-23971-C-2

FCC ID: NDASC800



Frequency Modulation Summary

Coupling	DC	Carrier Offset	46.448 Hz
Deviation	+peak 21.81 kHz	Carrier Power	30.36 dBm
	-peak -38.17 kHz	Modulation Frequency	--- Hz
	+peak/2 29.99 kHz	Sampling Rate	31.25 kHz
	RMS 3.537 kHz	Record Length	1564
		Demod Bandwidth	25 kHz

Date: 25.MAR.2025 10:29:09

Registration number: W6M22412-23971-C-2

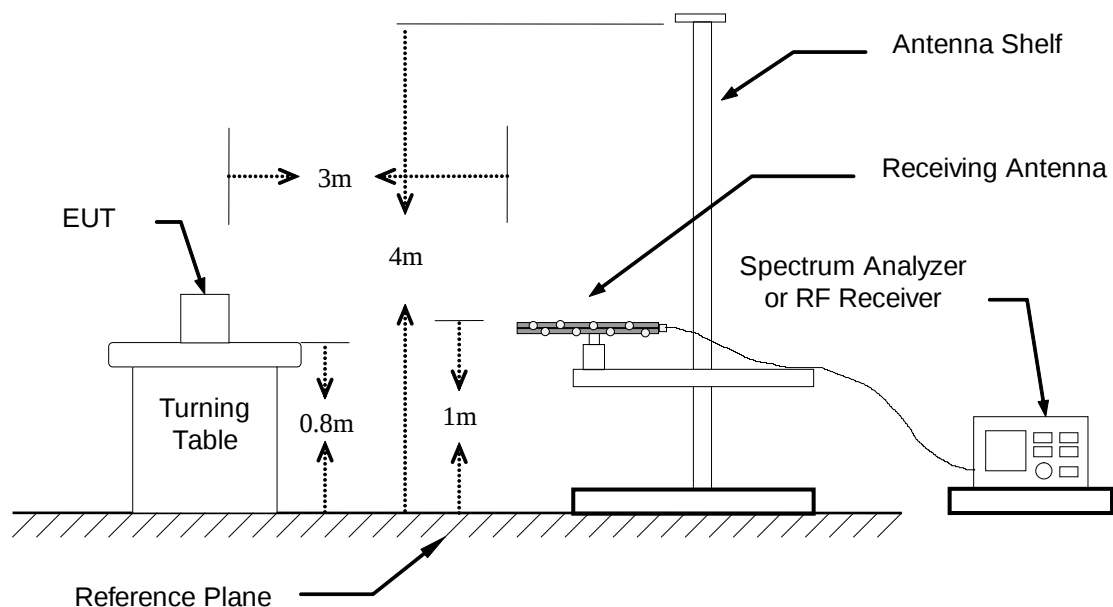
FCC ID: NDASC800

11. Receiver Radiated Spurious Emission

11.1 Test Procedures

1. Configure the EUT according to ANSI C63.4.
2. The EUT was placed on the top of the turn table 0.8 meter above ground.
3. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turn table.
4. Power on the EUT and all the supporting units.
5. The turn table was rotated 360 degrees to determine the position of the highest radiation.
6. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
7. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turn table was rotated (from 0 degree to 360 degrees) to find the maximum reading.
8. Adjust the spectrum analyzer for the following settings:
 - Resolution Bandwidth = 100 kHz for spurious emissions below 1 GHz and 1 MHz for spurious emissions above 1GHz.
 - Video Bandwidth = 100 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1 GHz.
 - Sweep Speed slow enough to maintain measurement calibration.
 - Detector Mode = Positive Peak.

11.2 Test Setup





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22412-23971-C-2

FCC ID: NDASC800

11.3 Test Result

Model: SC-800 Date: --
 Mode: -- 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. See attached diagrams in appendix.
7. This test is not required because the EUT is transmitter only.

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



Registration number: W6M22412-23971-C-2
FCC ID: NDASC800

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: Ken

File : 1

Data : #1

Date: 2025/3/17

Temperature: 23.1 °C

Time: 下午 03:21:37

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 450.0125MHz

Note :

Polarization: **Horizontal**

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	95.4108	-86.66	peak	21.15	-65.51	-20.00	150	225	-45.51	
	154.0080	-89.16	peak	21.44	-67.72	-20.00	150	280	-47.72	

*: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: Ken

File :1

Data :#2

Date: 2025/3/17

Temperature: 23.1 °C

Time: 下午 03:29:16

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 450.0125MHz

Note :

Polarization: Vertical

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	95.4108	-87.68	peak	21.54	-66.14	-20.00	150	45	-46.14	
	154.0080	-90.63	peak	22.20	-68.43	-20.00	150	100	-48.43	

*: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: Ken

File : 2

Data : #1

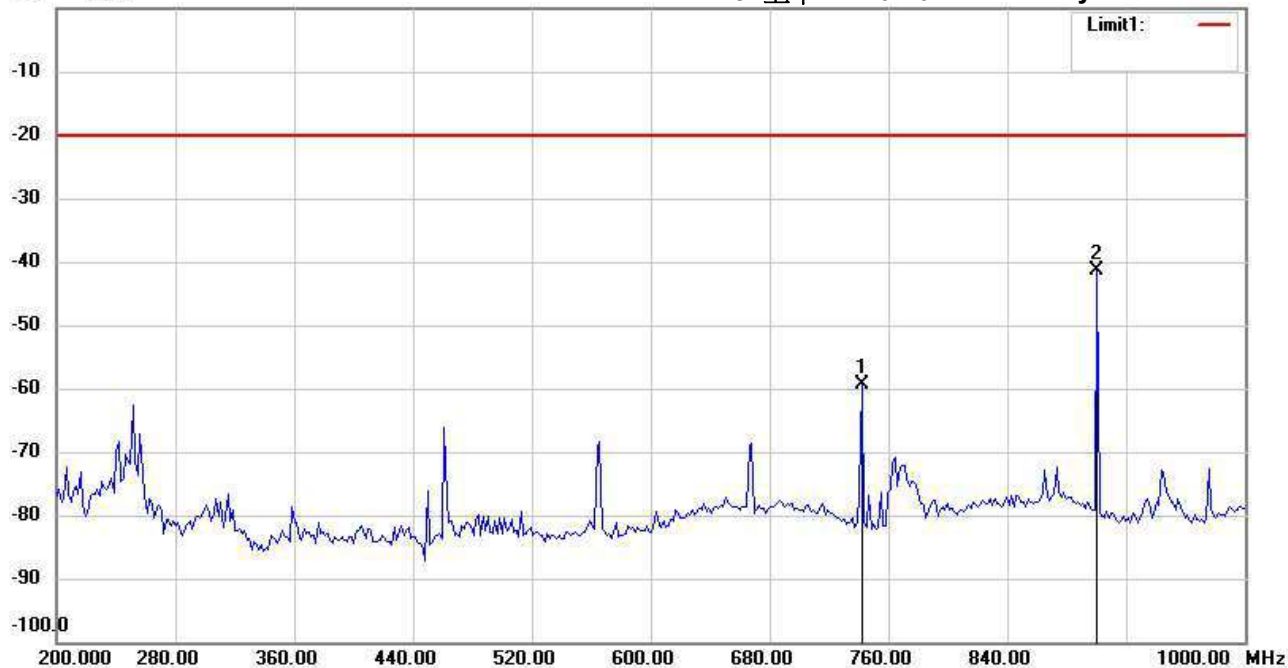
Date: 2025/4/25

Temperature: 23.1 °C

0.0 dBm

Time: 上午 11:29:10

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 450.0125MHz

Note :

Polarization: **Horizontal**

Power : 230 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	741.8837	-54.46	peak	-4.88	-59.34	-20.00	150	315	-39.34	
*	900.6012	-40.02	peak	-1.38	-41.40	-20.00	150	230	-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: Ken

File : 2

Data : #2

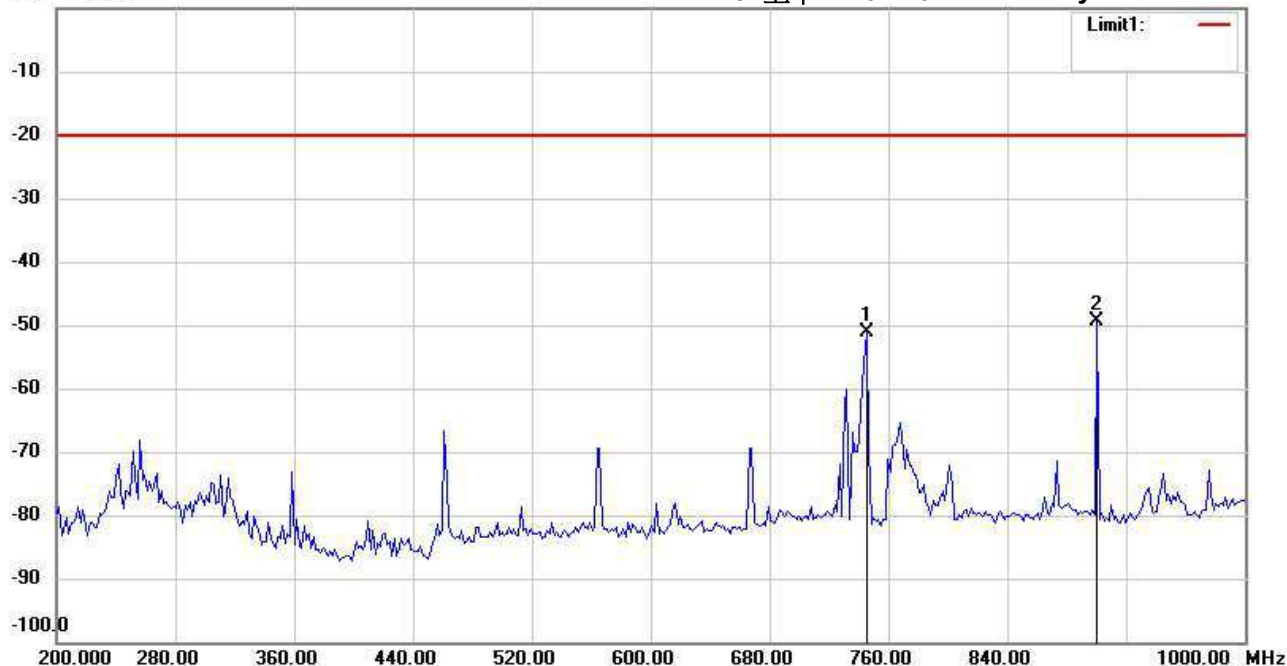
Date: 2025/4/25

Temperature: 23.1 °C

0.0 dBm

Time: 上午 11:31:16

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 450.0125MHz

Note :

Polarization: **Vertical**

Power : 230 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	745.0902	-46.77	peak	-4.29	-51.06	-20.00	150	330	-31.06	
*	900.6012	-47.19	peak	-2.17	-49.36	-20.00	150	250	-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: Ken

File : 3

Data : #1

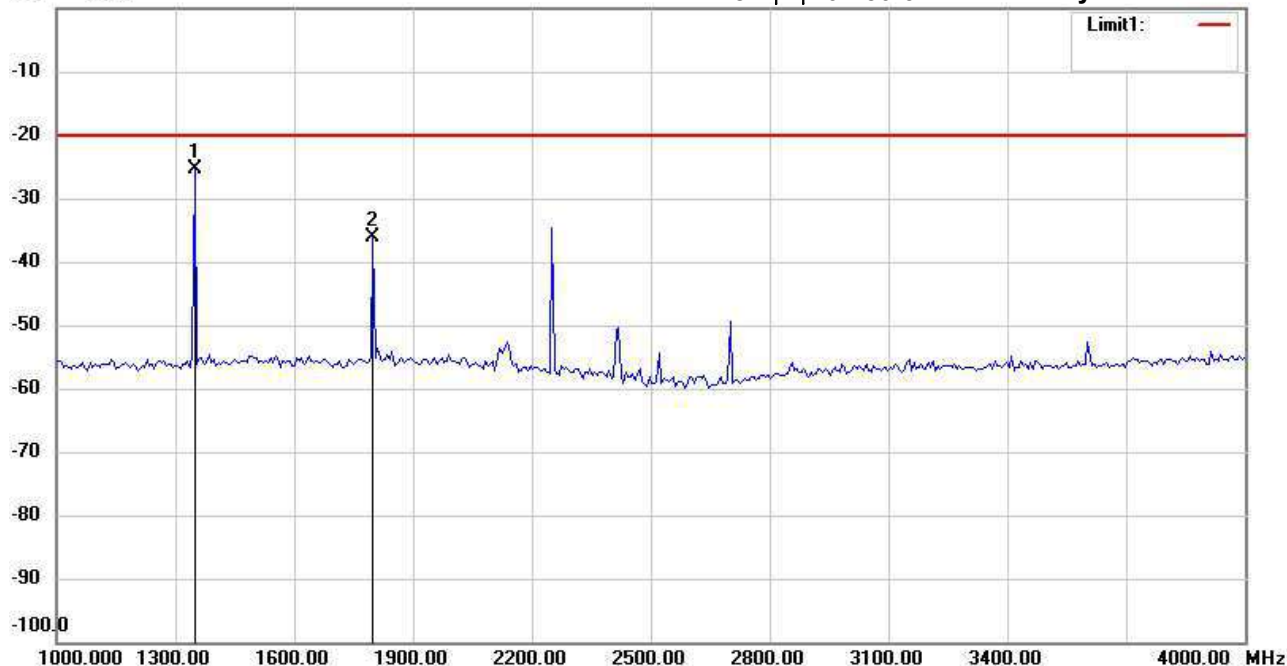
Date: 2025/3/17

Temperature: 23.1 °C

0.0 dBm

Time: 下午 04:50:32

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 450.0125MHz

Note :

Polarization: **Horizontal**

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1348.697	-31.09	peak	5.74	-25.35	-20.00	150	155	-5.35	
	1799.599	-41.92	peak	5.86	-36.06	-20.00	150	120	-16.06	

*: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: Ken

File : 3

Data : #3

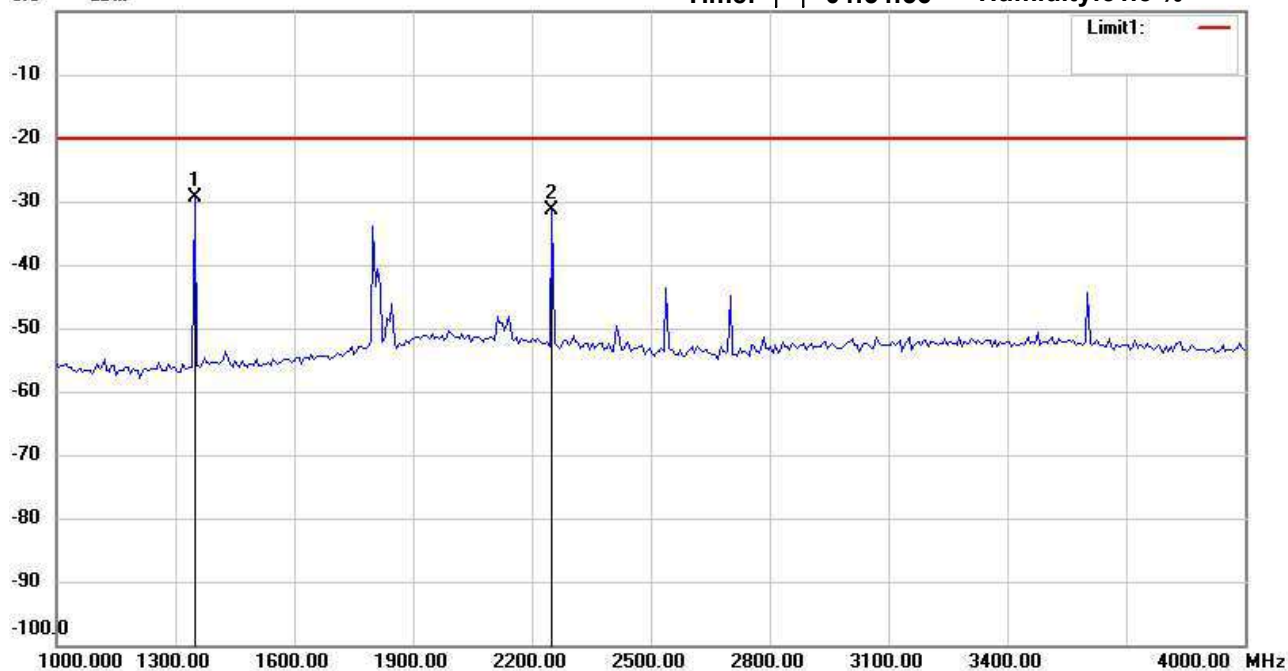
Date: 2025/3/17

Temperature: 23.1 °C

0.0 dBm

Time: 下午 04:54:56

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 450.0125MHz

Note :

Polarization: Vertical

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1348.697	-34.96	peak	5.63	-29.33	-20.00	150	220	-9.33	
	2250.501	-40.83	peak	9.37	-31.46	-20.00	150	270	-11.46	

*: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: Ken

File : 3

Data : #2

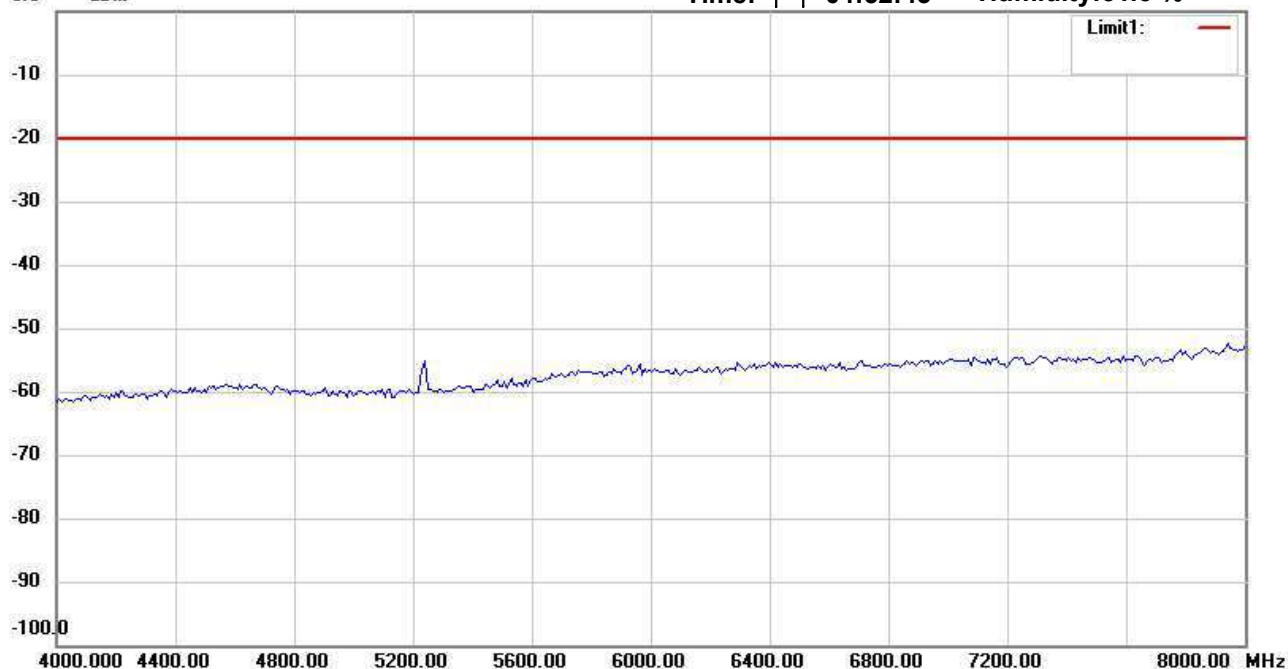
Date: 2025/3/17

Temperature: 23.1 °C

Time: 下午 04:52:43

Humidity: 51.5 %

0.0 dBm



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 450.0125MHz

Note :

Polarization: **Horizontal**

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	---------------	----------	-------------------	--------------	-------------	--------------	----------------	-------------	---------

*: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: Ken

File : 3

Data : #4

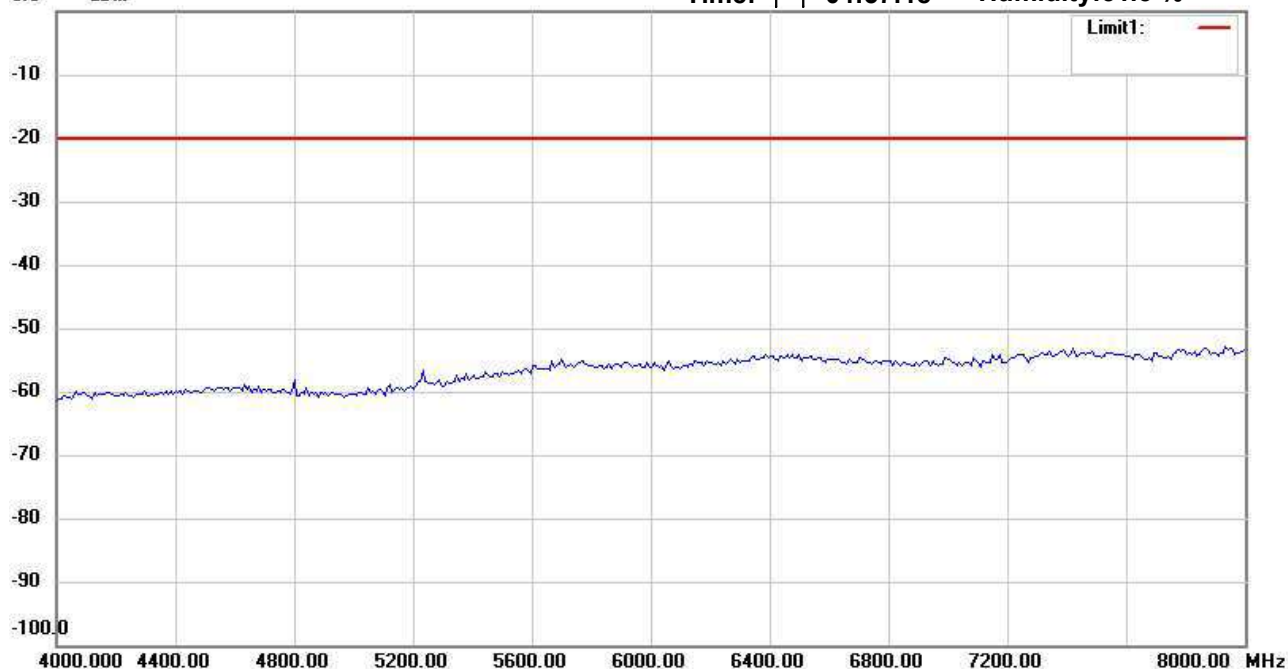
Date: 2025/3/17

Temperature: 23.1 °C

0.0 dBm

Time: 下午 04:57:18

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 450.0125MHz

Note :

Polarization: **Vertical**

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*: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: Ken

File : 1

Data : #1

Date: 2025/3/17

Temperature: 23.1 °C

Time: 下午 03:22:55

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 460MHz

Note :

Polarization: **Horizontal**

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	95.4108	-87.89	peak	21.15	-66.74	-20.00	150	260	-46.74	
*	154.0080	-87.87	peak	21.44	-66.43	-20.00	150	175	-46.43	

*: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: Ken

File : 1

Data : #2

Date: 2025/3/17

Temperature: 23.1 °C

Time: 下午 03:28:04

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 460MHz

Note :

Polarization: Vertical

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	96.7735	-86.72	peak	21.78	-64.94	-20.00	150	280	-44.94	
	154.0080	-90.29	peak	22.20	-68.09	-20.00	150	340	-48.09	

*: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: Ken

File : 2

Data : #1

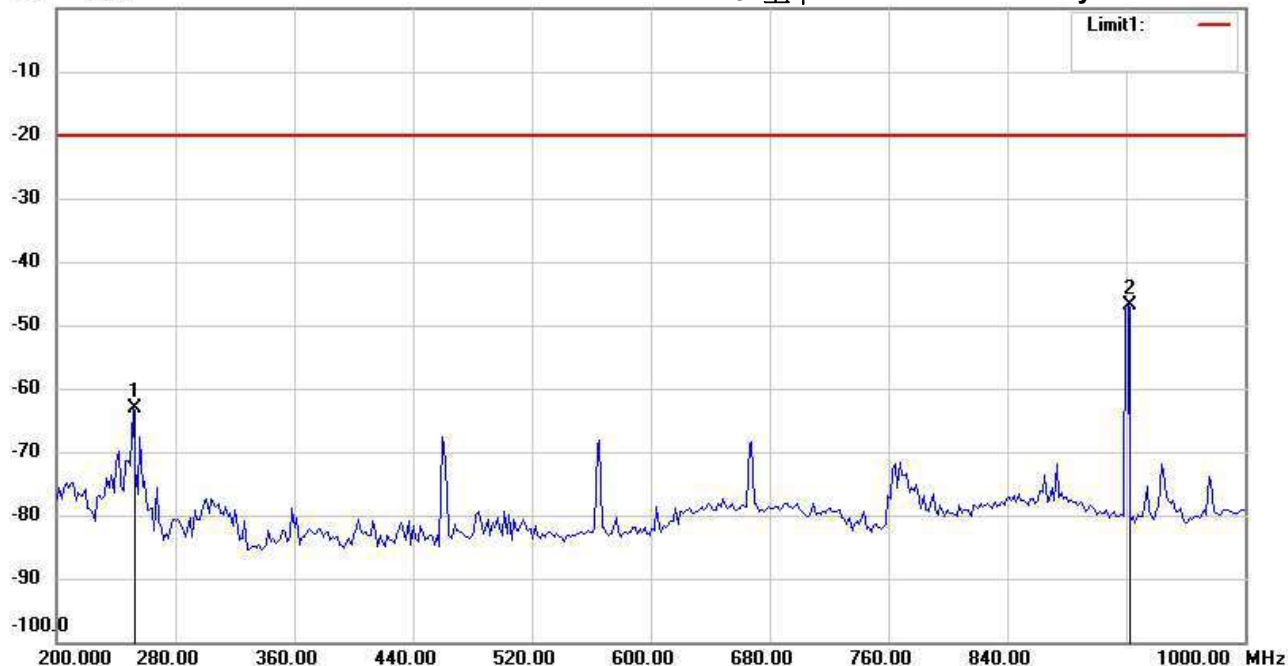
Date: 2025/4/25

Temperature: 23.1 °C

0.0 dBm

Time: 上午 11:24:17

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 460MHz

Note :

Polarization: **Horizontal**

Power : 230 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	251.3027	-48.85	peak	-14.21	-63.06	-20.00	150	205	-43.06	
*	921.4430	-44.41	peak	-2.45	-46.86	-20.00	150	305	-26.86	

*: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: Ken

File : 2

Data : #2

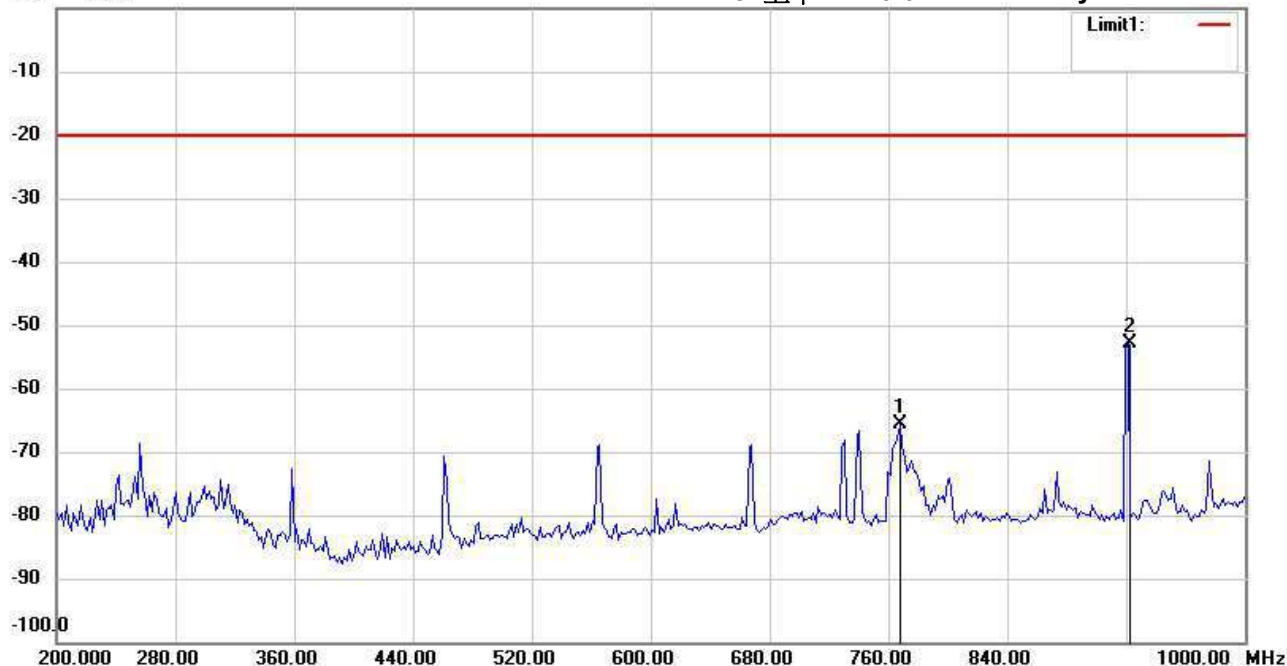
Date: 2025/4/25

Temperature: 23.1 °C

0.0 dBm

Time: 上午 11:26:04

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 460MHz

Note :

Polarization: Vertical

Power : 230 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	767.5351	-61.63	peak	-4.08	-65.71	-20.00	150	255	-45.71	
*	921.4430	-50.12	peak	-2.65	-52.77	-20.00	150	160	-32.77	

*: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: Ken

File : 3

Data : #1

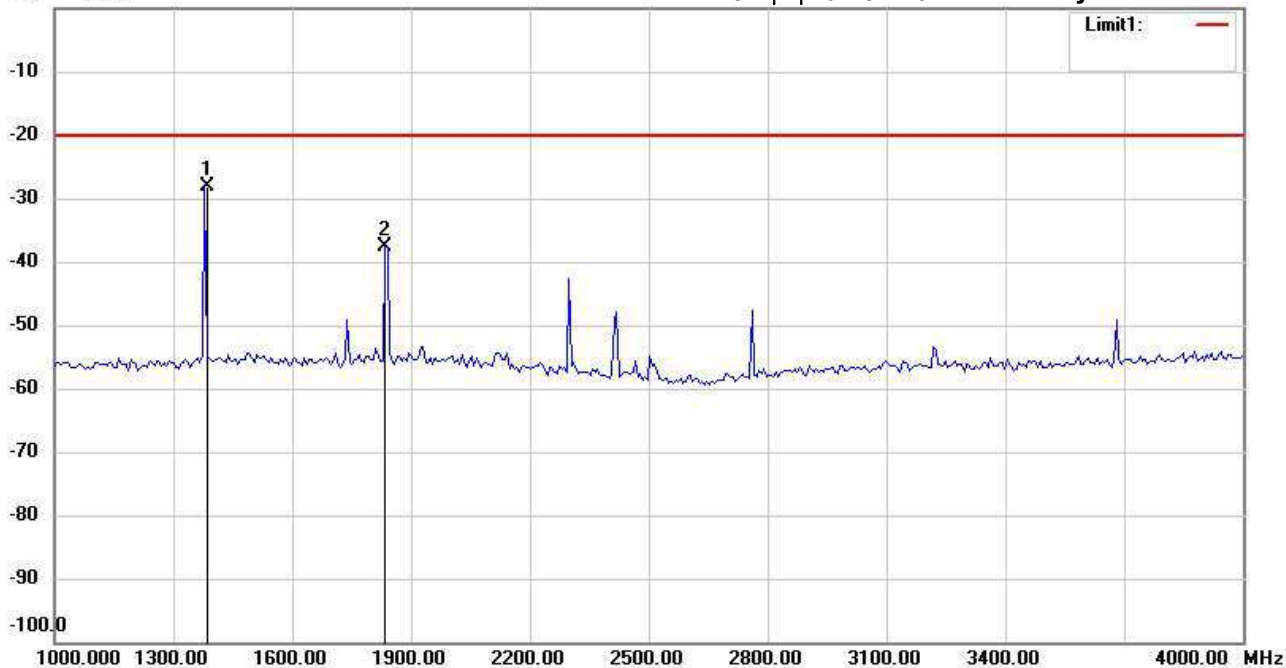
Date: 2025/3/17

Temperature: 23.1 °C

0.0 dBm

Time: 下午 04:57:40

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 460MHz

Note :

Polarization: Horizontal

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1378.758	-33.79	peak	5.73	-28.06	-20.00	150	130	-8.06	
	1835.671	-43.40	peak	5.88	-37.52	-20.00	150	155	-17.52	

*: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: Ken

File : 3

Data : #3

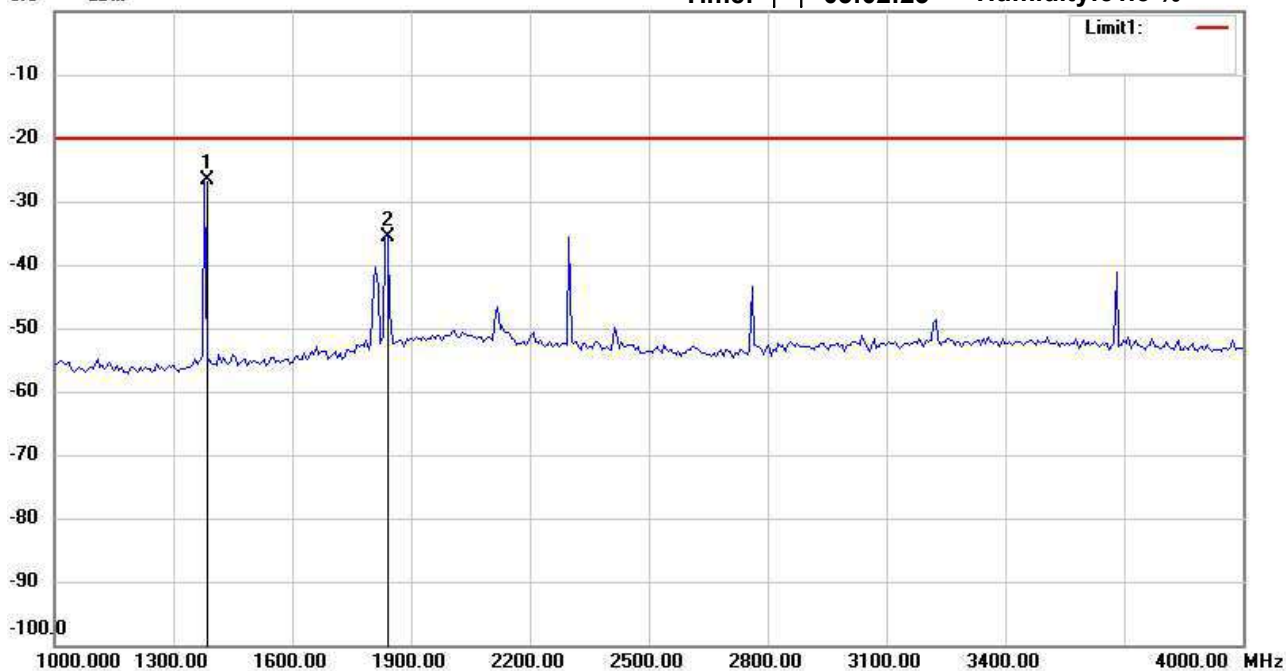
Date: 2025/3/17

Temperature: 23.1 °C

0.0 dBm

Time: 下午 05:02:23

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 460MHz

Note :

Polarization: Vertical

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1378.758	-32.22	peak	5.64	-26.58	-20.00	150	125	-6.58	
	1841.683	-44.60	peak	8.92	-35.68	-20.00	150	270	-15.68	

*: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: Ken

File : 3

Data : #2

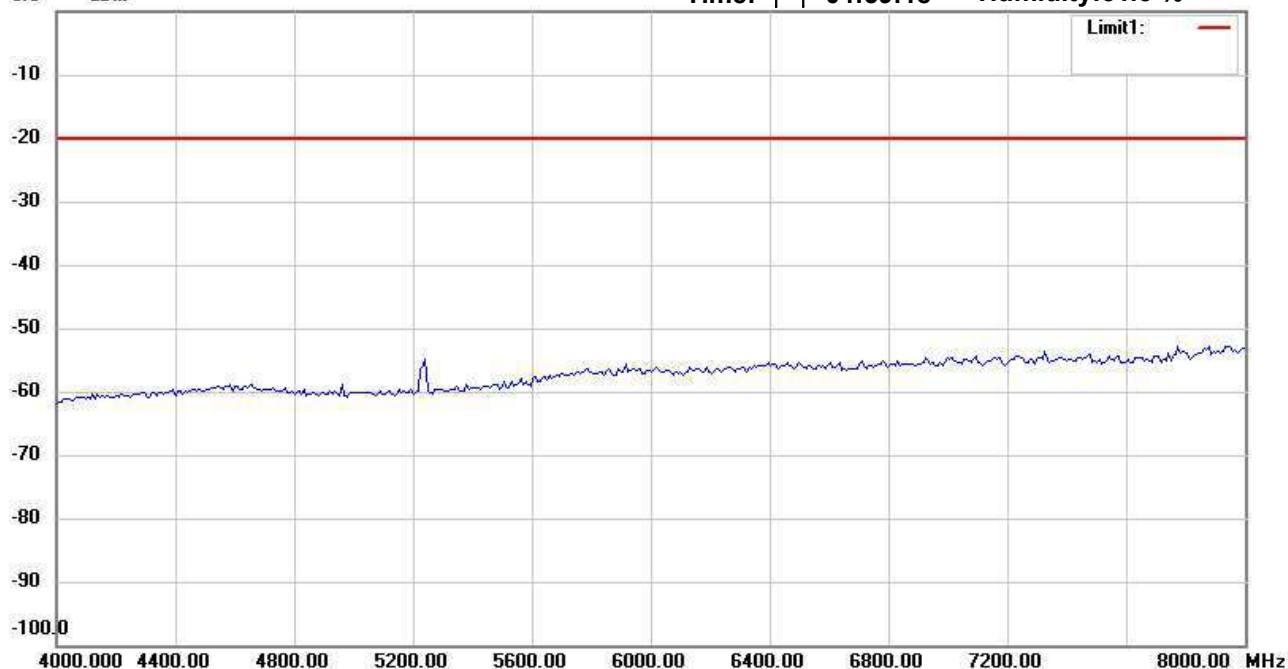
Date: 2025/3/17

Temperature: 23.1 °C

Time: 下午 04:59:18

Humidity: 51.5 %

0.0 dBm



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 460MHz

Note :

Polarization: **Horizontal**

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*: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: Ken

File :3

Data :#4

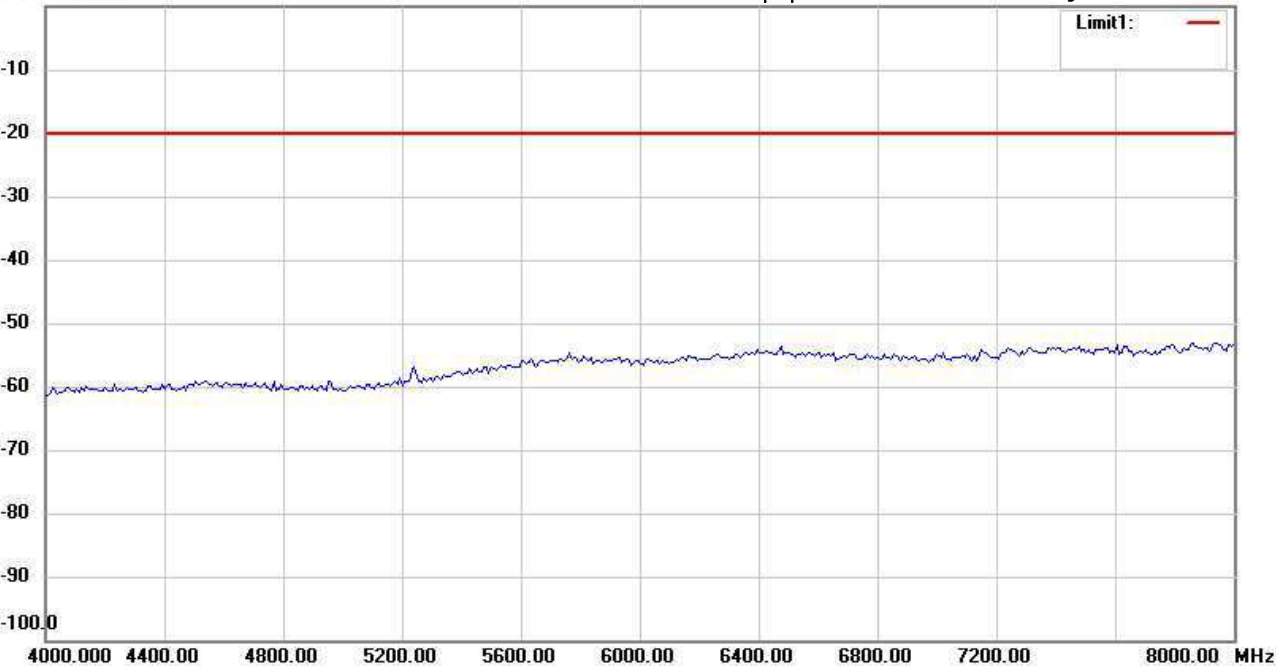
Date: 2025/3/17

Temperature:23.1 °C

Time: 下午 05:04:55

Humidity:51.5 %

0.0 dBm



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 460MHz

Note :

Polarization: Vertical

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*: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: Ken

File : 1

Data : #1

Date: 2025/3/17

Temperature: 23.1 °C

Time: 下午 03:24:09

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 469.9875MHz

Note :

Polarization: **Horizontal**

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	39.8798	-86.15	peak	23.11	-63.04	-20.00	150	300	-43.04	
	90.6413	-87.54	peak	21.78	-65.76	-20.00	150	210	-45.76	

*: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: Ken

File : 1

Data : #2

Date: 2025/3/17

Temperature: 23.1 °C

0.0 dBm

Time: 下午 03:26:34

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 469.9875MHz

Note :

Polarization: Vertical

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	51.1222	-89.62	peak	20.68	-68.94	-20.00	150	150	-48.94	
*	95.0701	-86.06	peak	21.48	-64.58	-20.00	150	120	-44.58	

*: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: Ken

File : 2

Data : #1

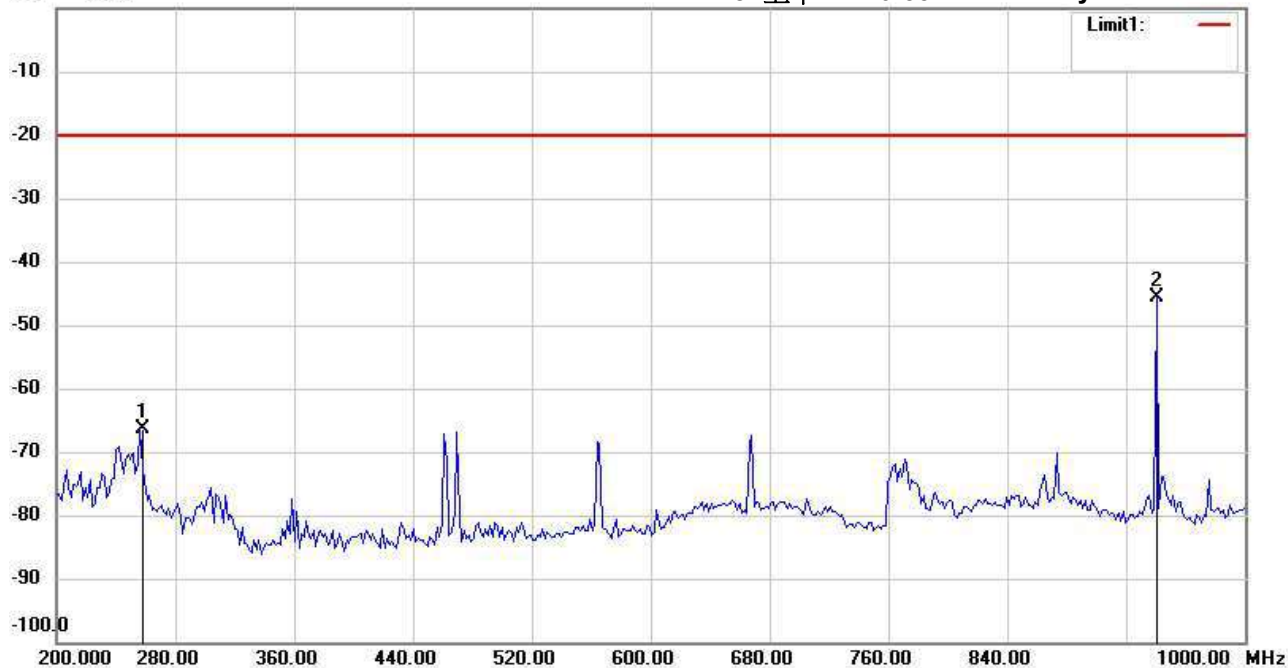
Date: 2025/4/25

Temperature: 23.1 °C

0.0 dBm

Time: 上午 11:10:55

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 469.9875MHz

Note :

Polarization: **Horizontal**

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	256.1123	-52.76	peak	-13.61	-66.37	-20.00	150	110	-46.37	
*	940.6814	-42.20	peak	-3.43	-45.63	-20.00	150	240	-25.63	

*: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: Ken

File : 2

Data : #2

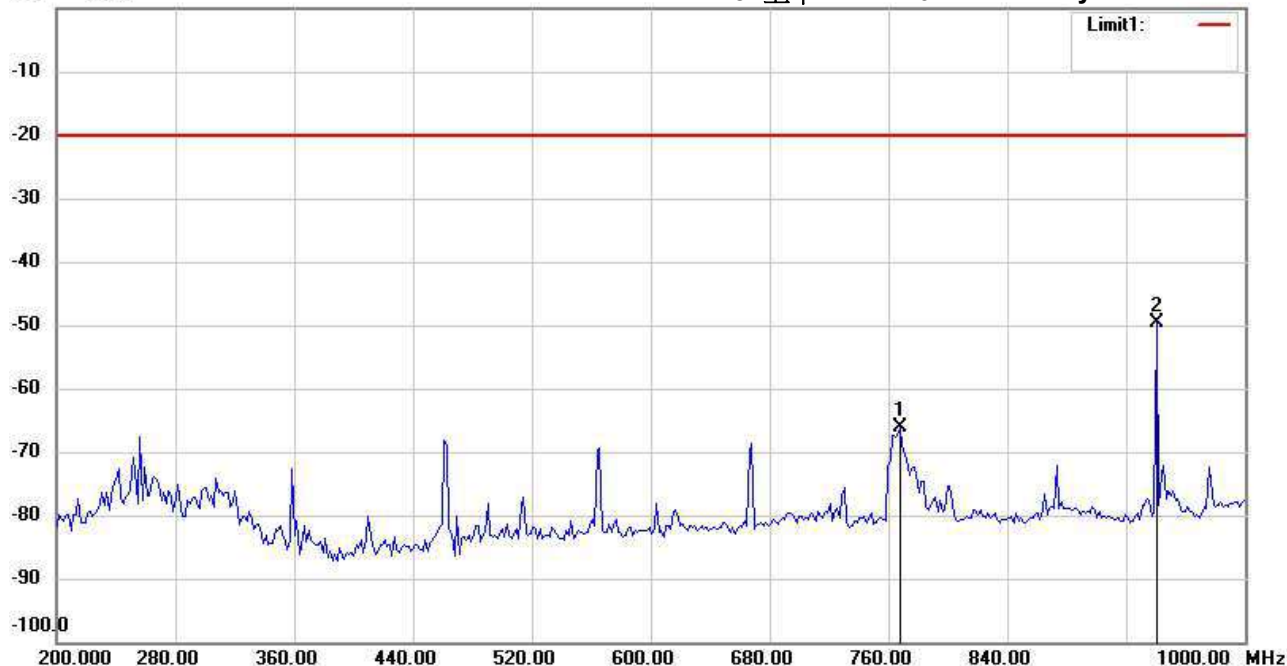
Date: 2025/4/25

Temperature: 23.1 °C

0.0 dBm

Time: 上午 11:14:46

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 469.9875MHz

Note :

Polarization: Vertical

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	767.5351	-62.14	peak	-4.08	-66.22	-20.00	150	165	-46.22	
*	940.6814	-46.64	peak	-3.09	-49.73	-20.00	150	290	-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: Ken

File : 3

Data : #1

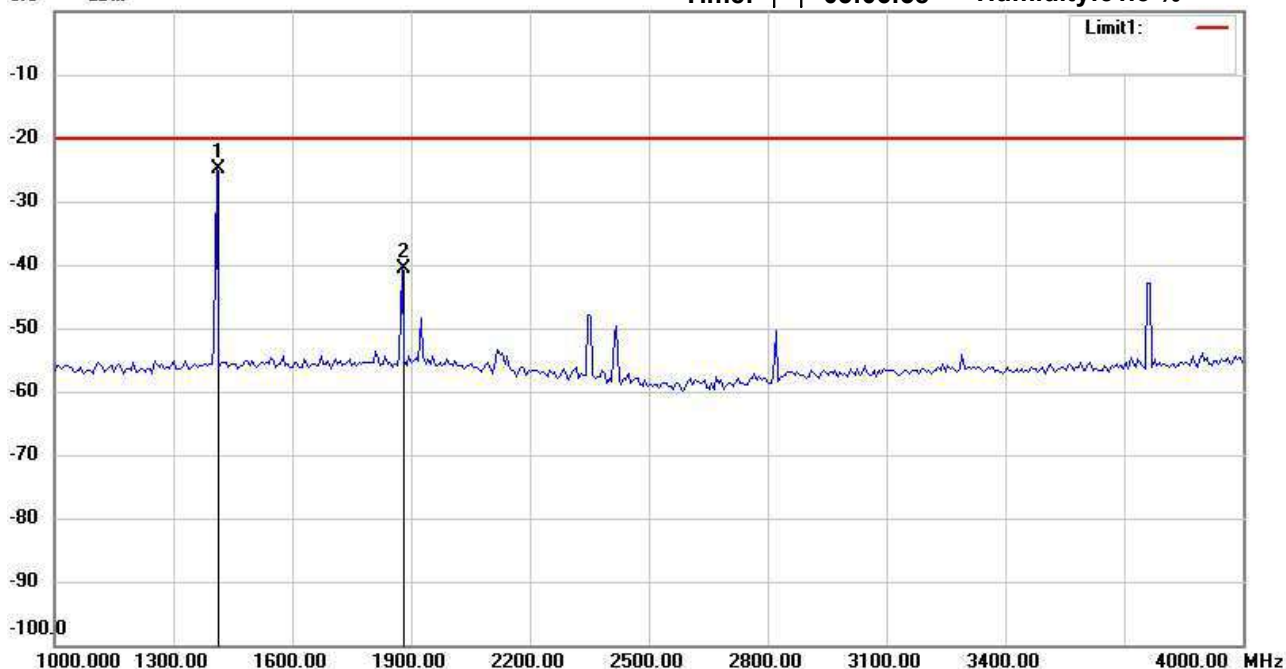
Date: 2025/3/17

Temperature: 23.1 °C

0.0 dBm

Time: 下午 05:06:38

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 469.9875MHz

Note :

Polarization: **Horizontal**

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1408.818	-30.63	peak	5.72	-24.91	-20.00	150	245	-4.91	
	1877.756	-46.50	peak	5.90	-40.60	-20.00	150	310	-20.60	

*: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: Ken

File : 3

Data : #3

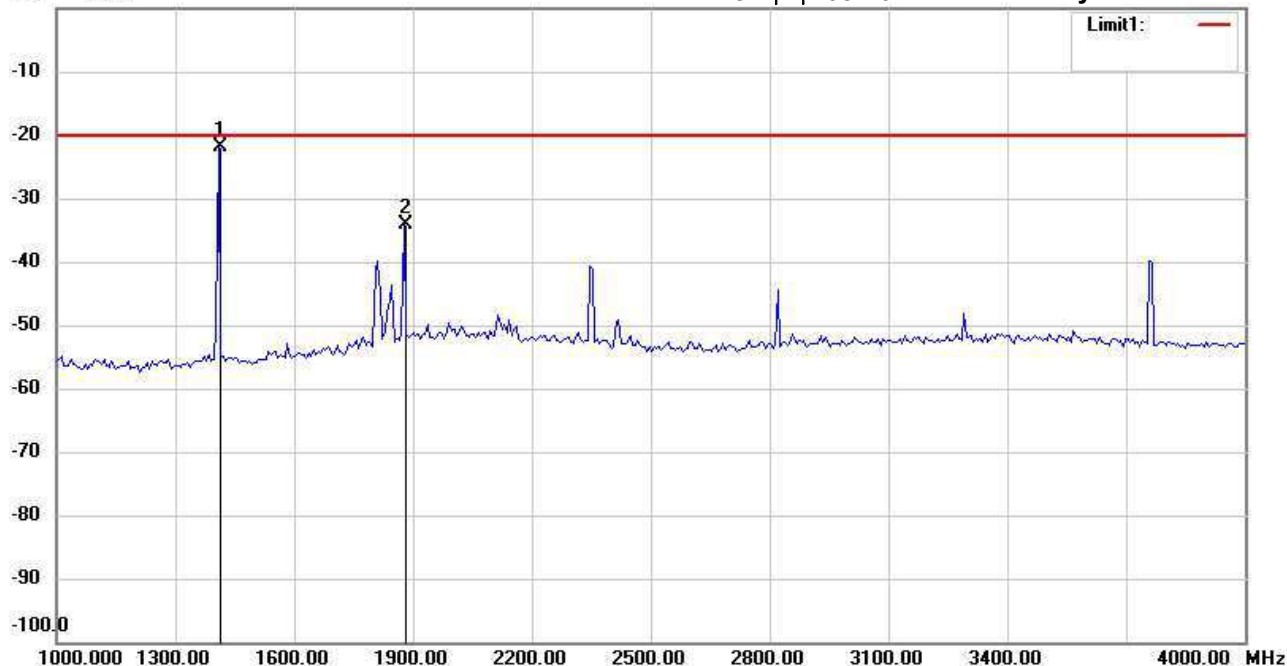
Date: 2025/3/17

Temperature: 23.1 °C

0.0 dBm

Time: 下午 05:10:17

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 469.9875MHz

Note :

Polarization: Vertical

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1408.818	-27.62	peak	5.64	-21.98	-20.00	150	255	-1.98	
	1877.756	-43.47	peak	9.27	-34.20	-20.00	150	330	-14.20	

*: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: Ken

File : 3

Data : #2

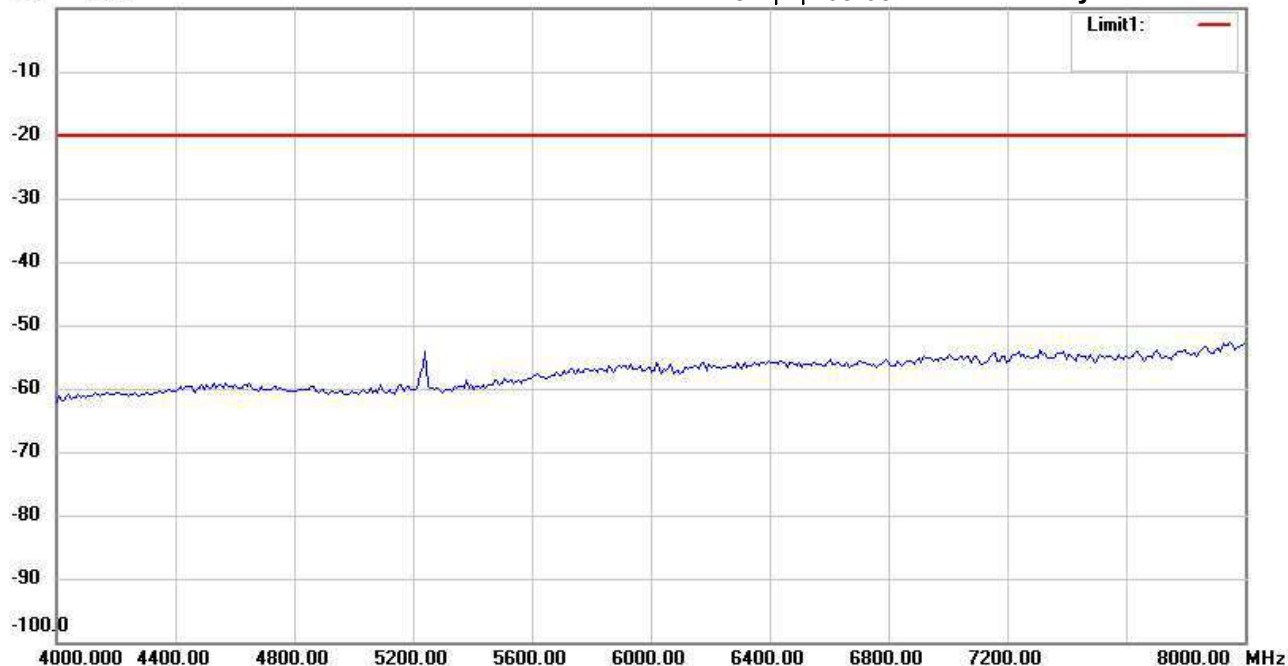
Date: 2025/3/17

Temperature: 23.1 °C

Time: 下午 05:08:21

Humidity: 51.5 %

0.0 dBm



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 469.9875MHz

Note :

Polarization: **Horizontal**

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*: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: Ken

File : 3

Data : #4

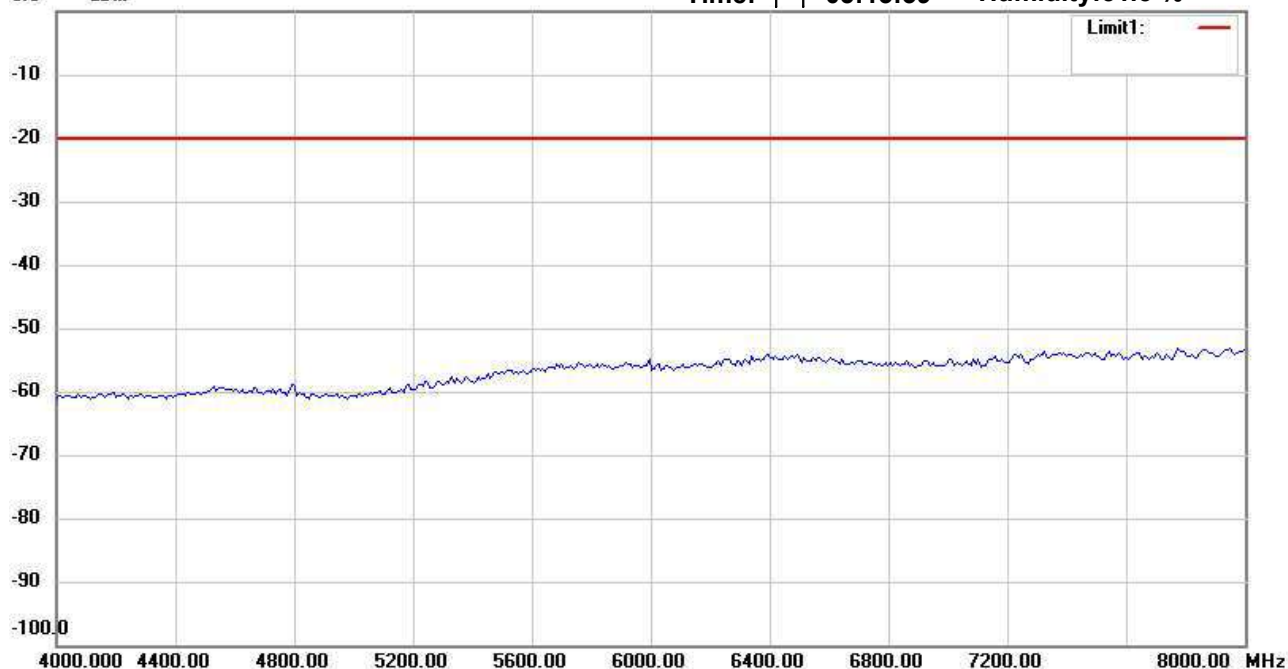
Date: 2025/3/17

Temperature: 23.1 °C

Time: 下午 05:13:39

Humidity: 51.5 %

0.0 dBm



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22412-23971

M/N:

Test Mode : Tx 469.9875MHz

Note :

Polarization: **Vertical**

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*: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: Ken

File :1

Data :#1

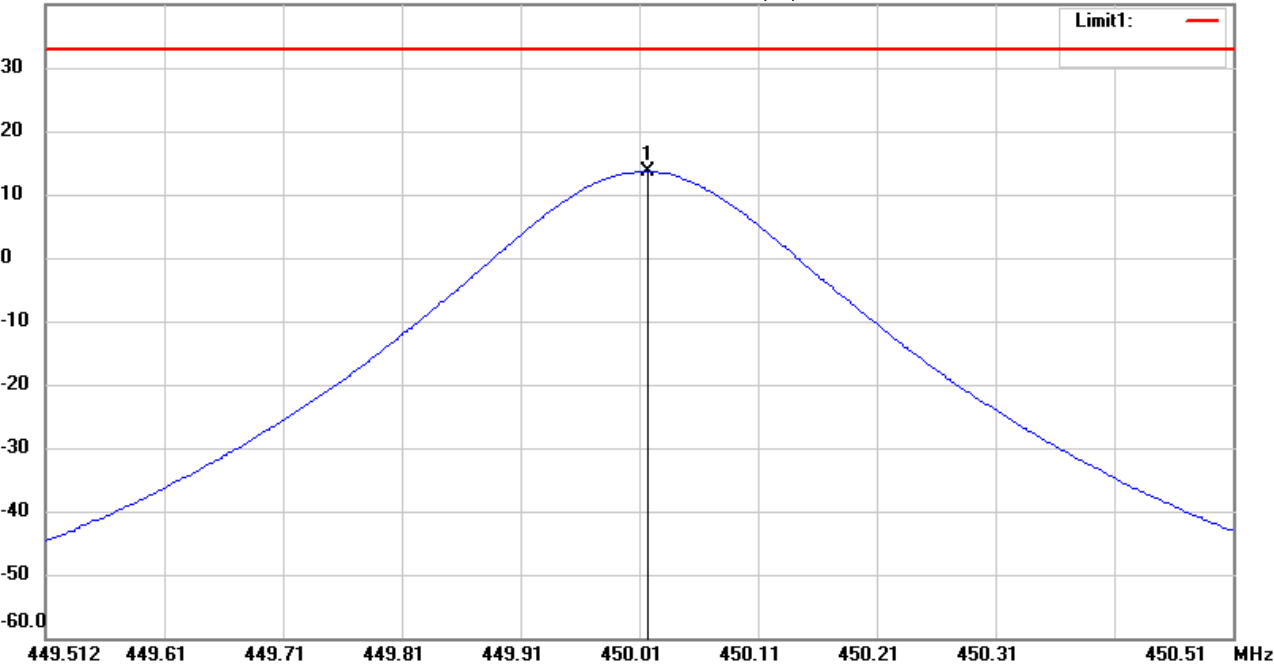
Date: 2025/5/23

Temperature:23.1 °C

40.0 dBm

Time: 下午 01:55:34

Humidity:51.5 %



Site : 966A Chamber
Condition : FCC_part 90 POWER-33db
EUT : W6M22412-23971
M/N:
Test Mode : Tx 450.0125MHz
Note :

Polarization: *Horizontal*
Power : 120 Va.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	450.0175	-13.80	peak	27.49	13.69	33.00	150	230	-19.31	

*: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: Ken

File : 1

Data : #2

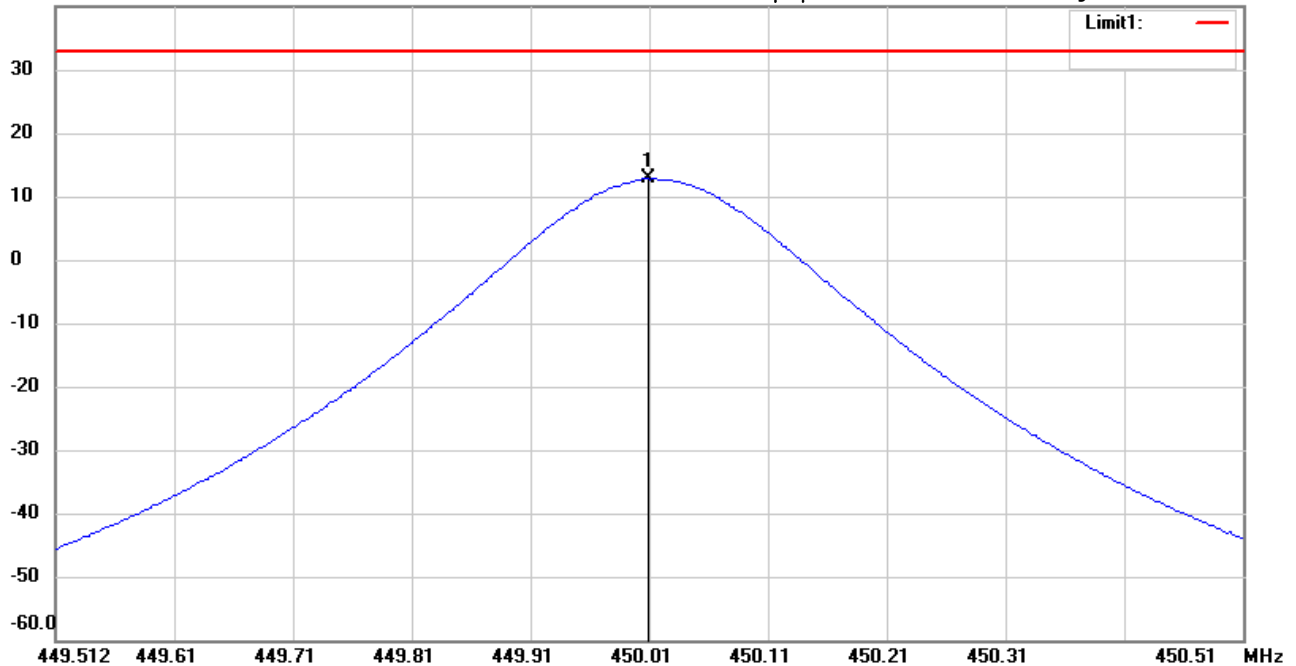
Date: 2025/5/23

Temperature: 23.1 °C

40.0 dBm

Time: 下午 01:58:04

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 POWER-33db

EUT : W6M22412-23971

M/N:

Test Mode : Tx 450.0125MHz

Note :

Polarization: Vertical

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	450.0095	-14.01	peak	26.80	12.79	33.00	150	160	-20.21	

*: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: Ken

File : 1

Data : #1

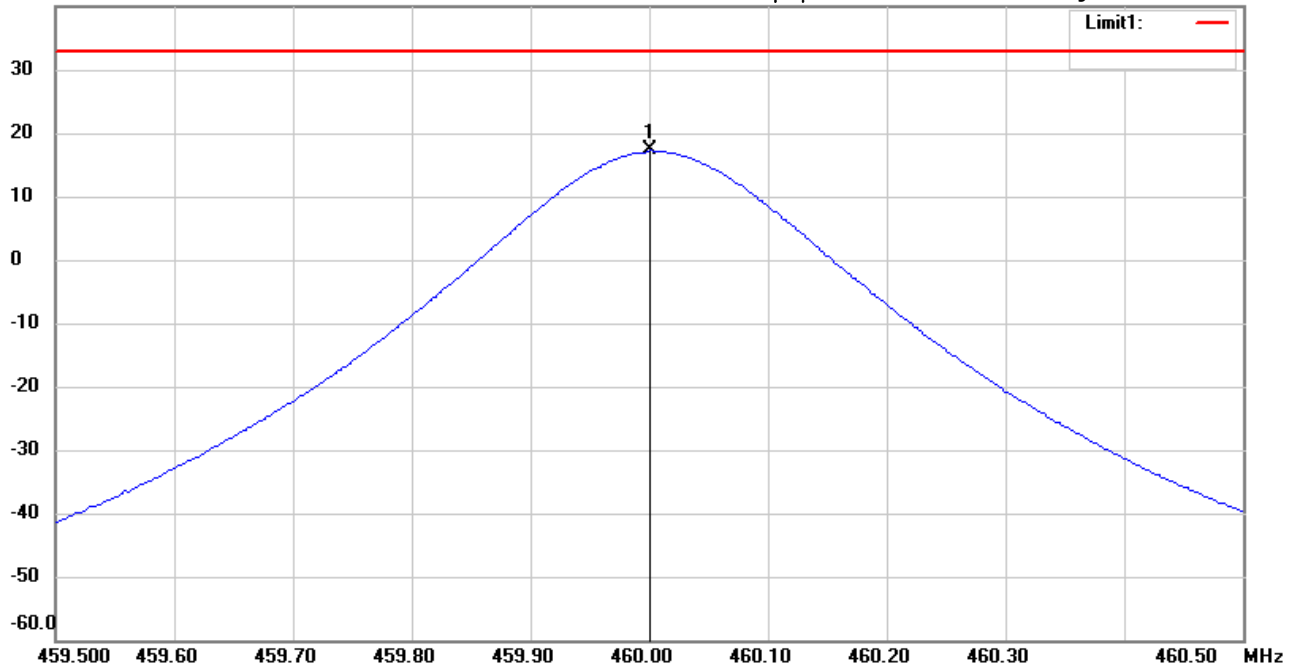
Date: 2025/5/23

Temperature: 23.1 °C

40.0 dBm

Time: 下午 02:02:35

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 POWER-33db

EUT : W6M22412-23971

M/N:

Test Mode : Tx 460MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	460.0010	-10.56	peak	27.82	17.26	33.00	150	225	-15.74	

*: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: Ken

File : 1

Data : #2

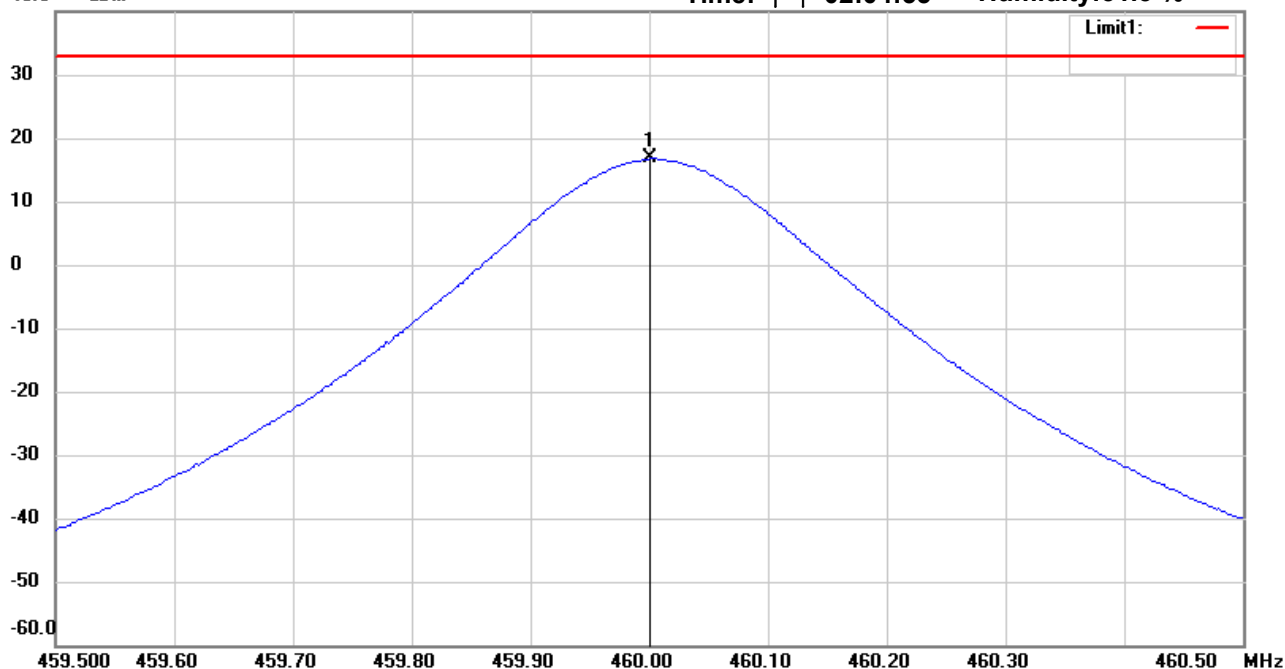
Date: 2025/5/23

Temperature: 23.1 °C

40.0 dBm

Time: 下午 02:04:55

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 POWER-33db

EUT : W6M22412-23971

M/N:

Test Mode : Tx 460MHz

Note :

Polarization: Vertical

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	460.0010	-10.51	peak	27.35	16.84	33.00	150	140	-16.16	

*: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: Ken

File : 1

Data : #1

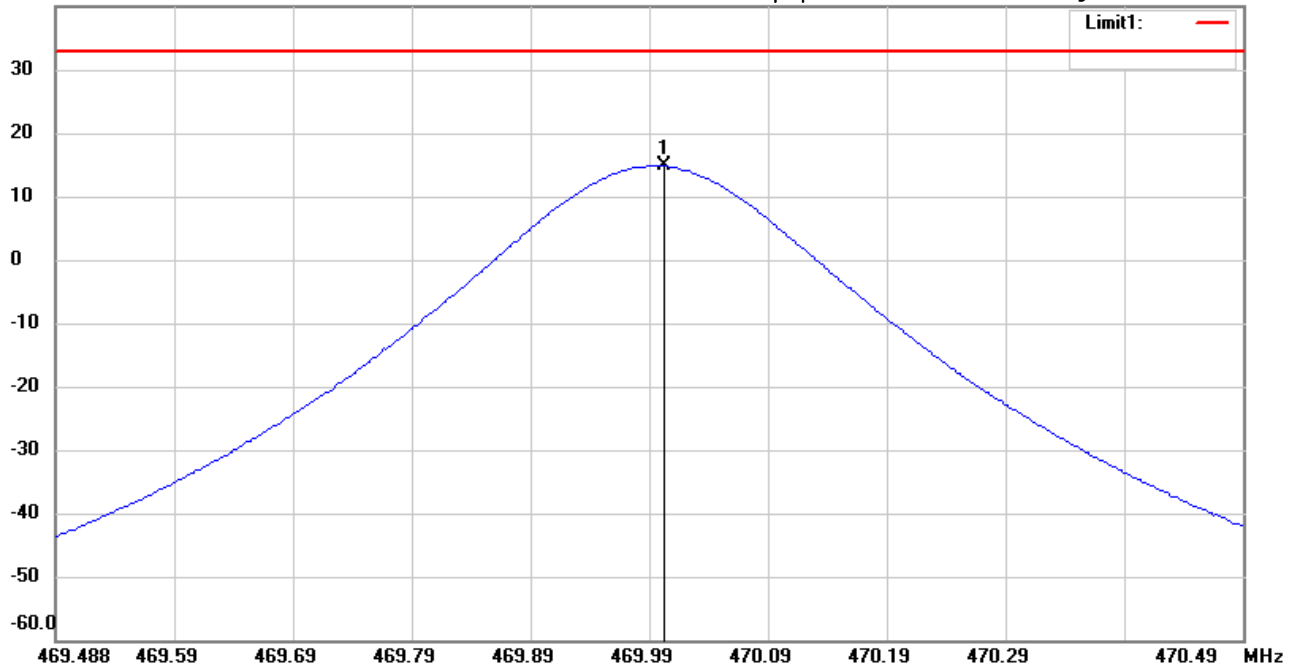
Date: 2025/5/23

Temperature: 23.1 °C

40.0 dBm

Time: 下午 02:08:25

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 POWER-33db

EUT : W6M22412-23971

M/N:

Test Mode : Tx 469.9875MHz

Note :

Polarization: *Horizontal*

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	470.0005	-13.22	peak	28.16	14.94	33.00	150	170	-18.06	

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



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Radiated Emission Measurement

Operator: Ken

File : 1

Data : #2

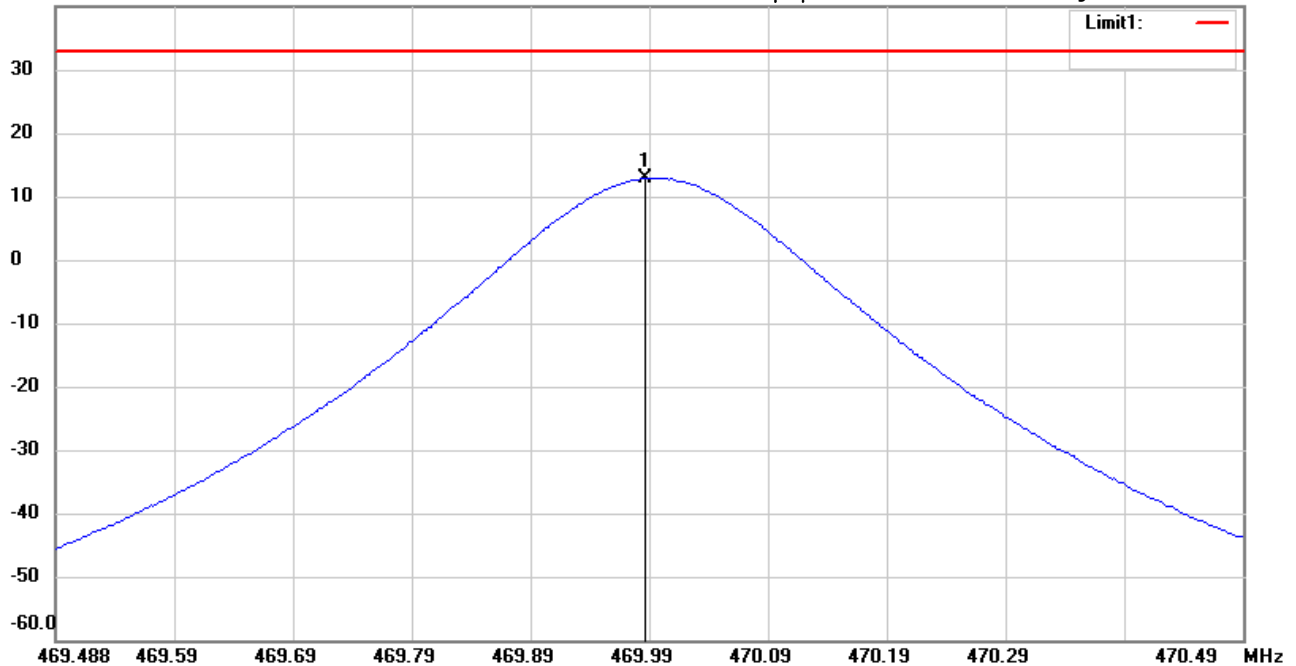
Date: 2025/5/23

Temperature: 23.1 °C

40.0 dBm

Time: 下午 02:10:38

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 POWER-33db

EUT : W6M22412-23971

M/N:

Test Mode : Tx 469.9875MHz

Note :

Polarization: Vertical

Power : 120 Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	469.9845	-14.99	peak	27.90	12.91	33.00	150	250	-20.09	

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