

47 CFR PART 15 SUBPART 90 TEST REPORT

for

Radio Walkie Talkie

Model No.: SC582-H

FCC ID: 2BO38-SC58X-H

of

Applicant: Stellar Wavez Communications LLC

Address: 17595 Harvard Ave Suite C #4050, Irvine, CA 92614

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.: W6R22506-24504-C-2

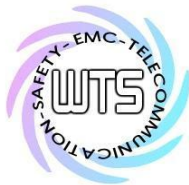
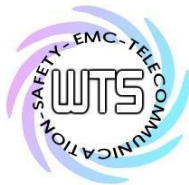


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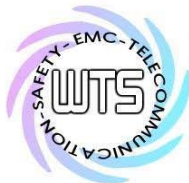
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1. General Information

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:

September 11, 2025

Rick Chen

Rick Chen.

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

September 11, 2025

Kevin Wang

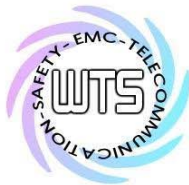
Kevin Wang

Date

WTS

Name

Signature



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1.2 Testing laboratory

1.2.1 Location

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No. 99, Sec. 1, Balian Rd., Xizhi Dist.,
New Taipei City 221032, Taiwan (R.O.C.)

Worldwide Testing Services (Taiwan) Co., Ltd.

6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)
Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory

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

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

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

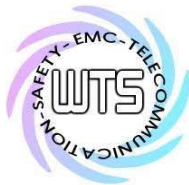
Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.



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1.3 Details of approval holder

Name: Stellar Wavez Communications LLC
Street: 17595 Harvard Ave. Suite C #4050,
City: Irvine, CA 92614
Country: U.S.A.

1.4 Application details

Date of receipt of test item: March 04, 2025
Date of test: from March 05, 2025 to August 18, 2025

1.5 General information of Test item

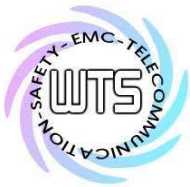
Type of test item: Radio Walkie Talkie
Model number: SC582-H
Brand name: Stellar Wavez
Multi-listing model number: ./.
Sample no.: #02

Technical data

Operating frequency band:

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

Type of modulation: FM
Designation of emission: 7K47F1D (450~470MHz)
Antenna type / gain: Dipole Antenna / -8dBi
Connection of antenna: ☒ detachable ☐ not detachable
Power rating: Adapter (I/P: 100-240V~50/60Hz, 0.5A
O/P: 12.0V, 1.0A, 12.0W)
Battery 7.2Vd.c., 1500mAh, 10.8Wh
Operation modes: half-duplex



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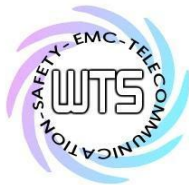
FCC ID: 2BO38-SC58X-H

Manufacturer: (if applicable)

Name:	TST Technology Co., Ltd.
Street:	9F-7, No. 2, Jian 8th St., Zhonghe Dist.,
Town:	235 New Taipei City,
Country:	Taiwan

1.6 Test standards

Technical standard: 47 CFR PART 90 (2024-10)



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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.



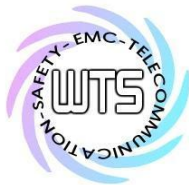
2.2 Test environment

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

OCCUPIED BANDWIDTH&RF Output power&Emission Mask
&Conducted Spurious Emission &Transient behaviour

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

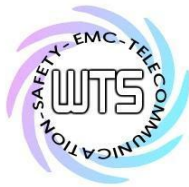
Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2025/2/14	2026/2/13
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2025/3/5	2026/3/4
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-Cable 030	Microwave 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	2025/7/22	2026/7/21

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	2025/7/11	2026/7/10
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	2025/7/11	2026/7/10
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2025/7/11	2026/7/10
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2025/7/11	2026/7/10
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	

Spurious Emission (966A 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	2025/7/11	2026/7/10
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	2025/7/11	2026/7/10
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2025/7/11	2026/7/10
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2025/7/11	2026/7/10
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	



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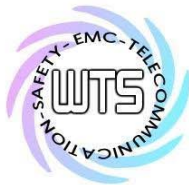
2.5 General Test Procedure

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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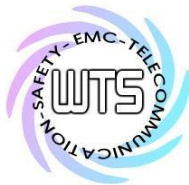
Registration number: W6R22506-24504-C-2

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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

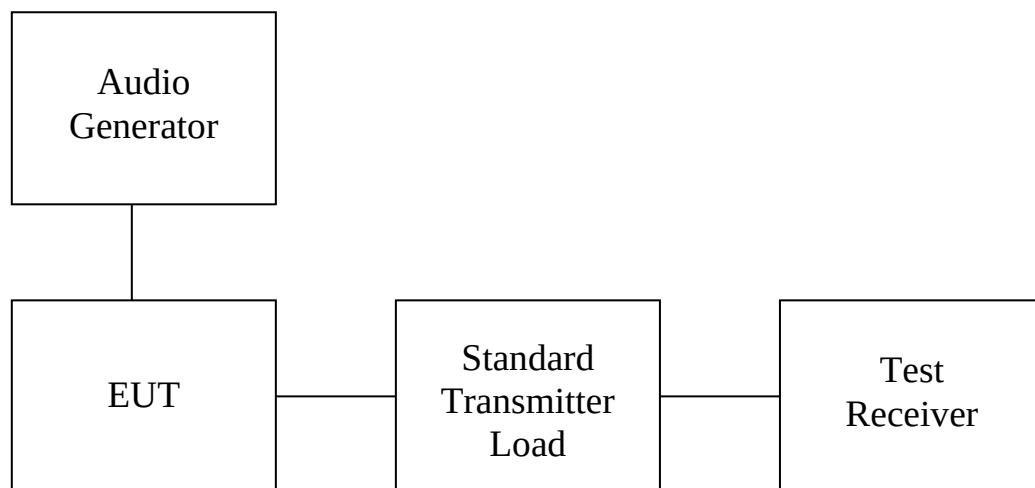
4.1 Test procedure

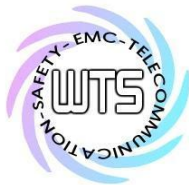
Modulation limiting is the transmitter circuit's ability to limit the transmitter from producing deviations in excess of rated system deviation.

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

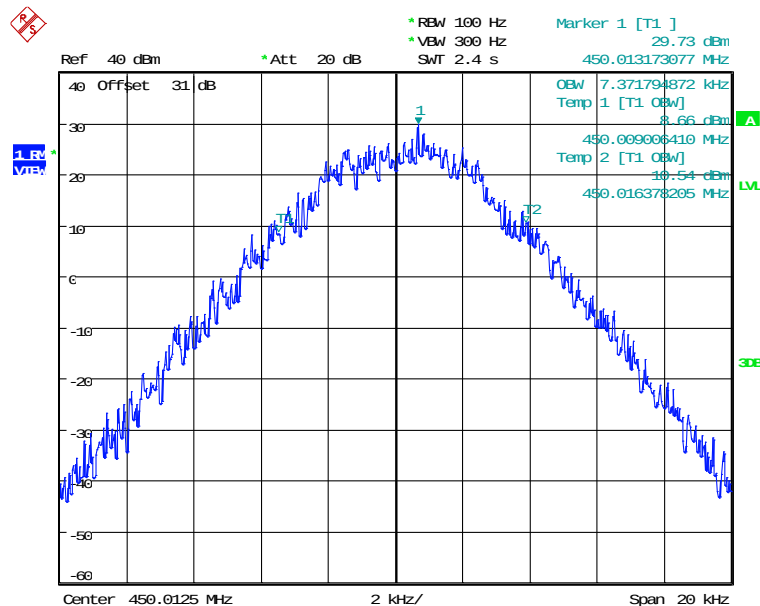
Test date: March 22, 2025-August 04, 2025

Temperature: 27.5°C

Humidity: 52.0%

Tester: Rick

High power



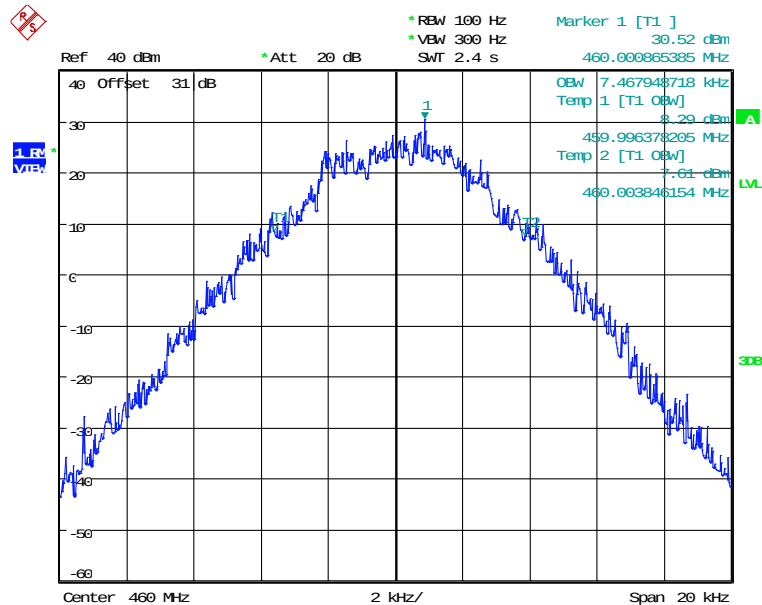
OBW 450.0125MHz
Date: 4.AUG.2025 17:57:02



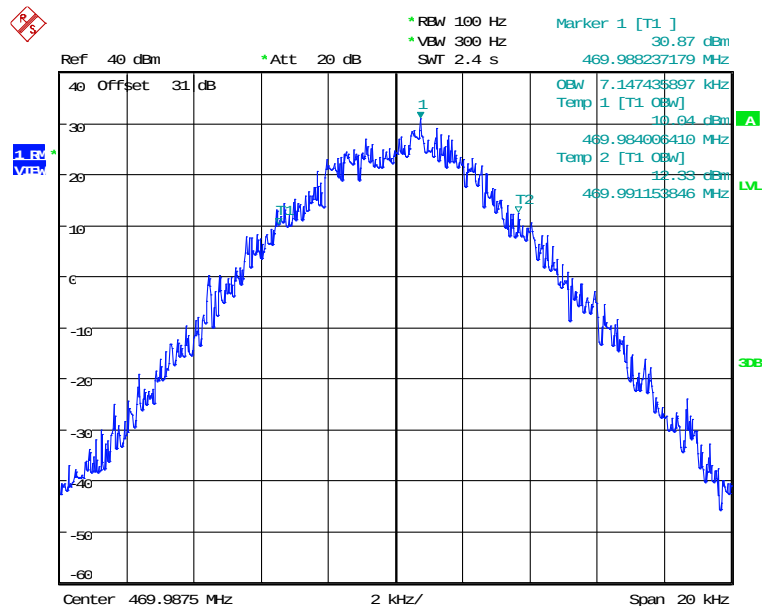
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OBW 460MHz
Date: 4.AUG.2025 17:55:29



OBW 469.9875MHz
Date: 4.AUG.2025 17:53:52

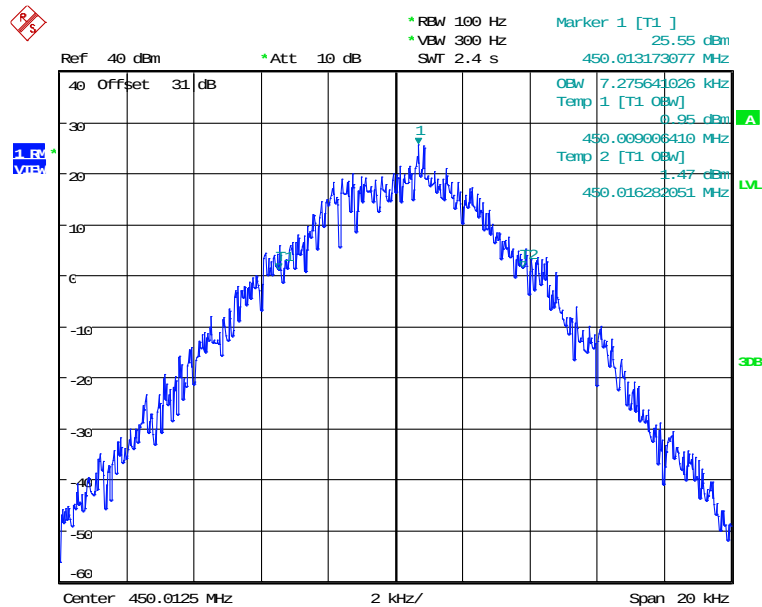


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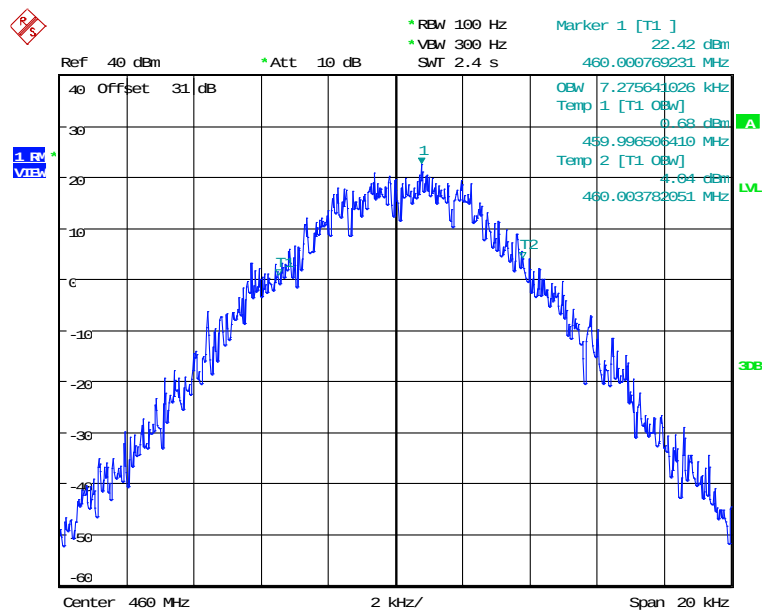
Registration number: W6R22506-24504-C-2

FCC ID: 2B038-SC58X-H

Low power



OBW 450.0125MHz
Date: 22.MAR.2025 21:58:40

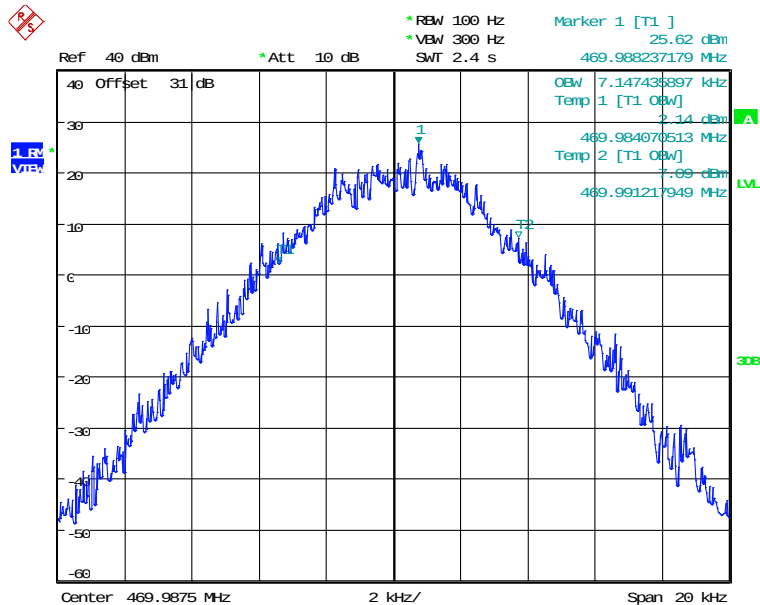


OBW 460MHz
Date: 22.MAR.2025 21:59:45



Registration number: W6R22506-24504-C-2

FCC ID: 2BO38-SC58X-H



OBW 469.9875MHz

Date: 22.MAR.2025 22:02:17

Registration number: W6R22506-24504-C-2

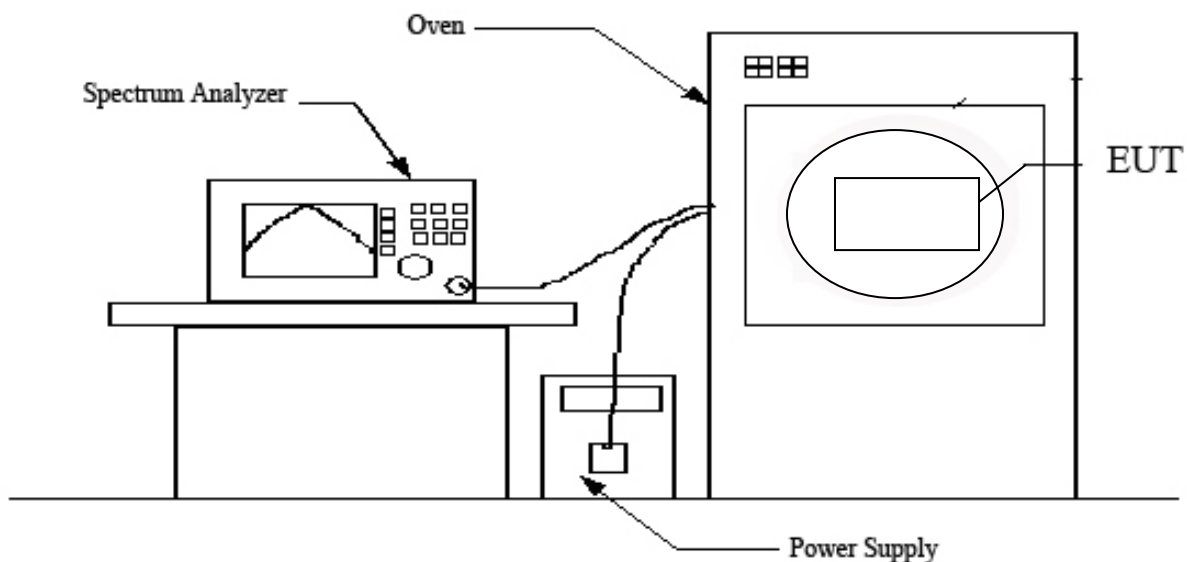
FCC ID: 2BO38-SC58X-H

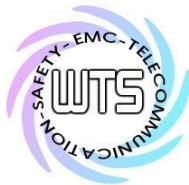
5. Frequency stability

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

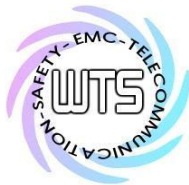
Test date: March 22, 2025

Temperature: 20.7°C

Humidity: 54.0%

Tester: Rick

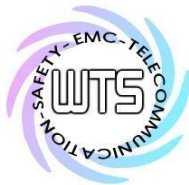
Frequency stability VS temperature	
Voltage(Vd.c.)	Measurement Frequency(MHz)
7.2	450.012596
7.92	450.012596
6.48	450.012596
Max Deviation (MHz)	0.000096
Max Deviation (ppm)	0.21
Limit(ppm)	2.5
Frequency stability VS temperature	
Temperature(°C)	Measurement Frequency(MHz)
-20.00	450.012756
-10.00	450.012660
0.00	450.012628
10.00	450.012596
20.00	450.012596
30.00	450.012596
40.00	450.012596
50.00	450.012500
Max Deviation (MHz)	0.000256
Max Deviation (ppm)	0.57
Limit(ppm)	2.5



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Frequency stability VS temperature	
Voltage(Vd.c.)	Measurement Frequency(MHz)
7.2	460.000128
7.92	460.000128
6.48	460.000128
Max Deviation (MHz)	0.000128
Max Deviation (ppm)	0.28
Limit(ppm)	2.5
Frequency stability VS temperature	
Temperature(°C)	Measurement Frequency(MHz)
-20.00	460.000382
-10.00	460.000192
0.00	460.000160
10.00	460.000128
20.00	460.000128
30.00	460.000128
40.00	460.000128
50.00	459.999968
Max Deviation (MHz)	0.000382
Max Deviation (ppm)	0.83
Limit(ppm)	2.5



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Frequency stability VS temperature	
Voltage(Vd.c.)	Measurement Frequency(MHz)
7.2	469.987660
7.92	469.987660
6.48	469.987660
Max Deviation (MHz)	0.000160
Max Deviation (ppm)	0.34
Limit(ppm)	2.5
Frequency stability VS temperature	
Temperature(°C)	Measurement Frequency(MHz)
-20.00	469.987798
-10.00	469.987734
0.00	469.987692
10.00	469.987660
20.00	469.987660
30.00	469.987660
40.00	469.987532
50.00	469.987500
Max Deviation (MHz)	0.000298
Max Deviation (ppm)	0.63
Limit(ppm)	2.5

Registration number: W6R22506-24504-C-2

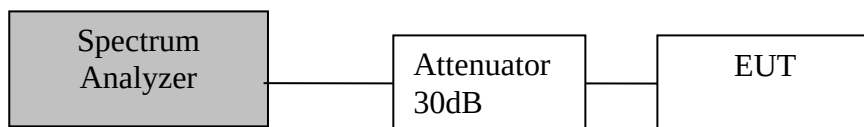
FCC ID: 2BO38-SC58X-H

6. Transmitter Output Power

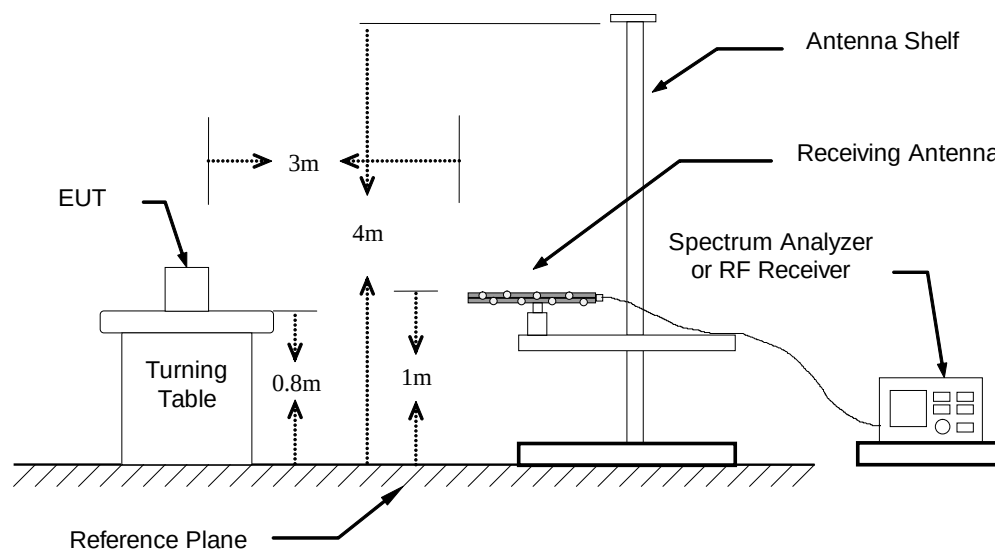
6.1 Test Procedures

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



Registration number: W6R22506-24504-C-2

FCC ID: 2BO38-SC58X-H

6.3 Test Result

Test date: March 22, 2025-August 04, 2025

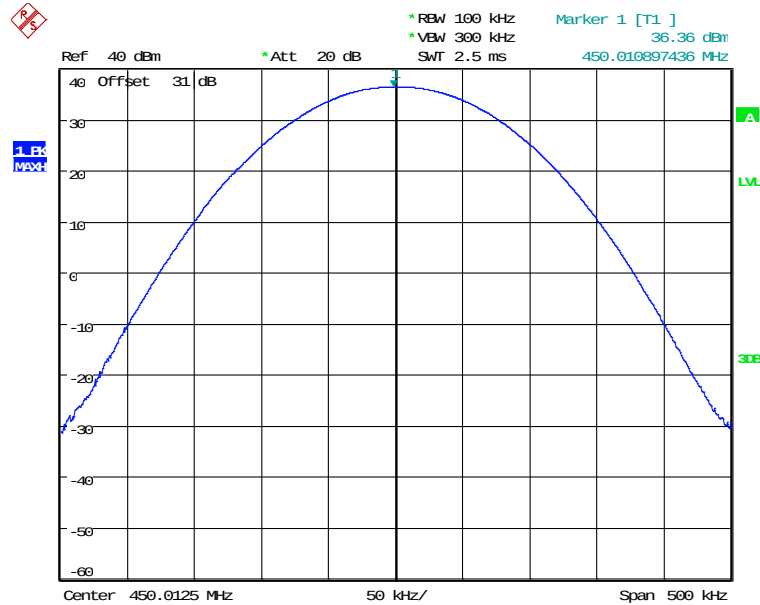
Temperature: 27.5°C

Humidity: 52.0%

Tester: Rick

6.3.1 Conducted Power

High power



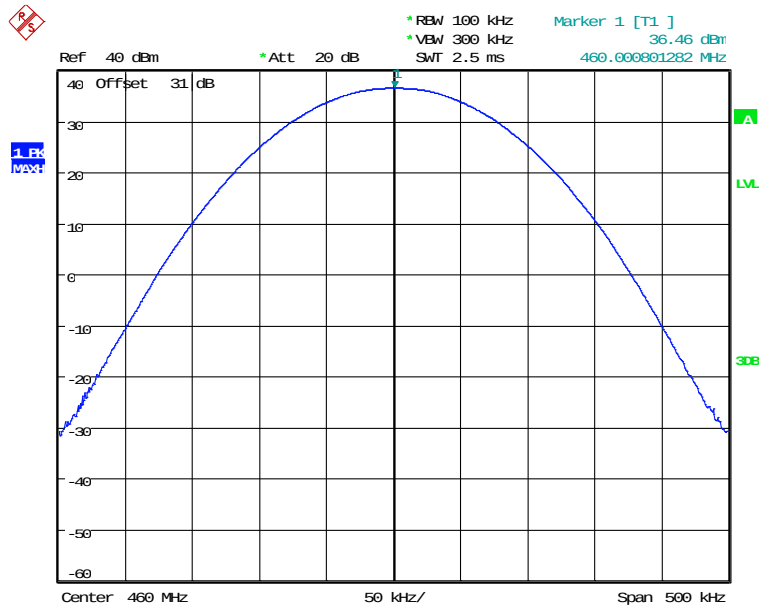
MAX OUTPUT POWER 450.0125MHz

Date: 4.AUG.2025 17:59:24

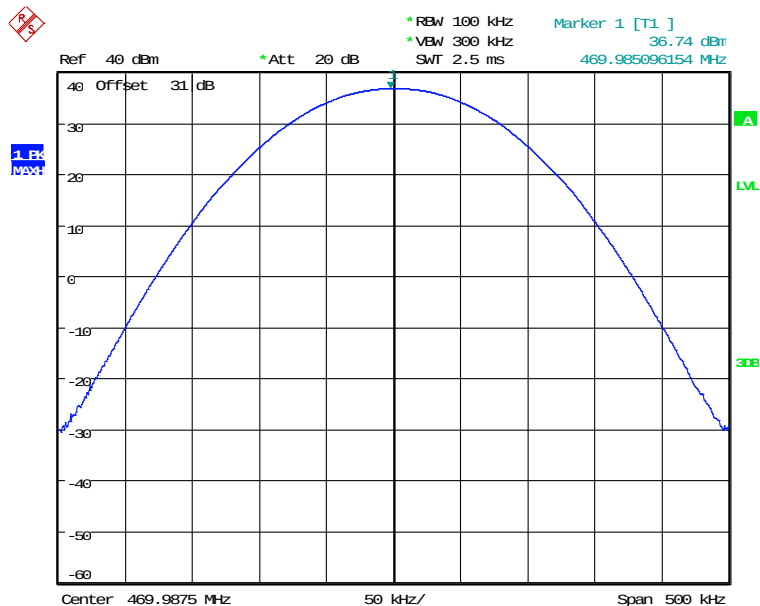


Registration number: W6R22506-24504-C-2

FCC ID: 2BO38-SC58X-H



MAX OUTPUT POWER 460MHz
Date: 4.AUG.2025 17:59:55



MAX OUTPUT POWER 469.9875MHz
Date: 4.AUG.2025 18:00:29

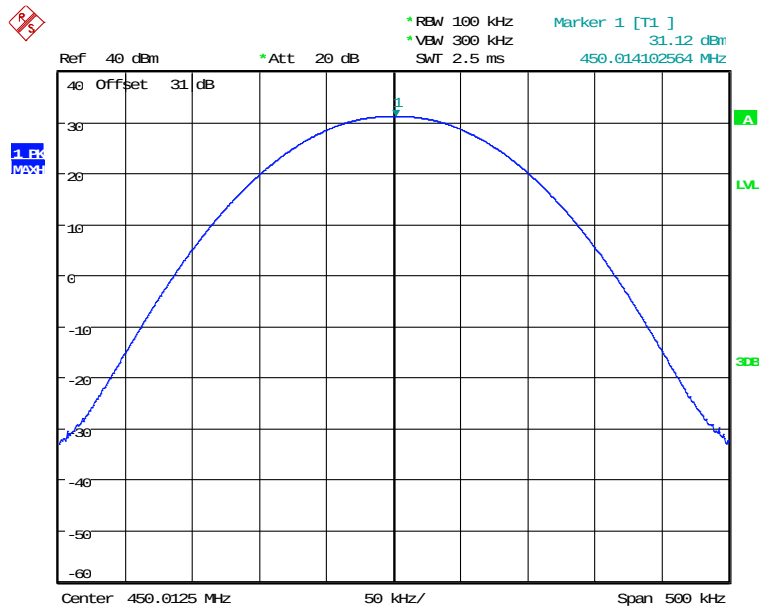


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22506-24504-C-2

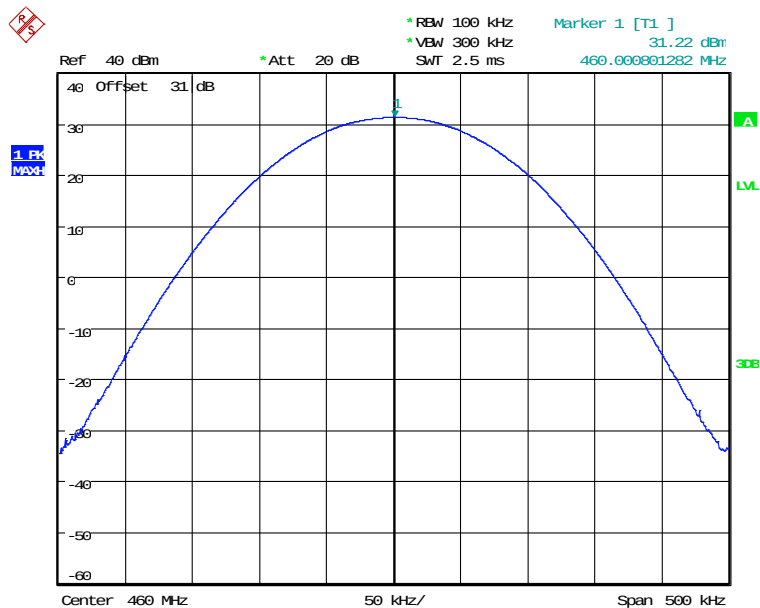
FCC ID: 2B038-SC58X-H

Low power



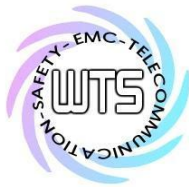
MAX OUTPUT POWER 450.0125MHz

Date: 22.MAR.2025 23:02:08

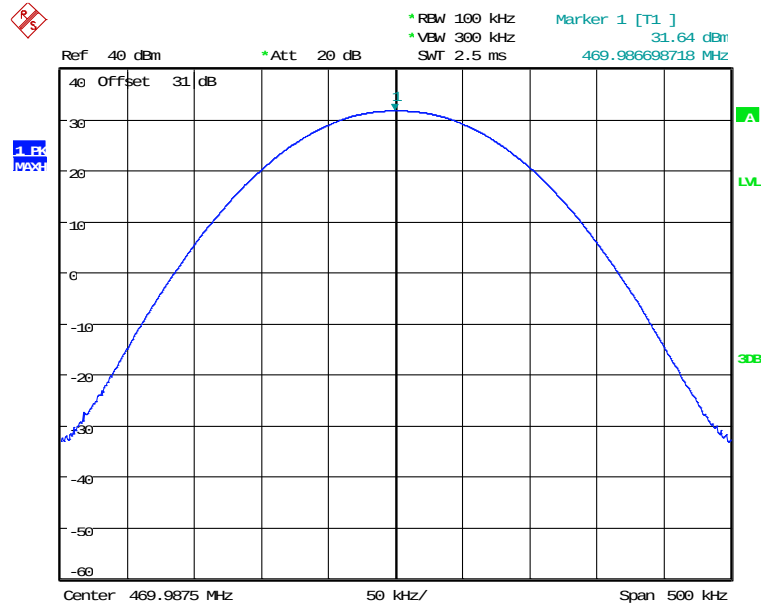


MAX OUTPUT POWER 460MHz

Date: 22.MAR.2025 23:02:36



Registration number: W6R22506-24504-C-2
FCC ID: 2BO38-SC58X-H



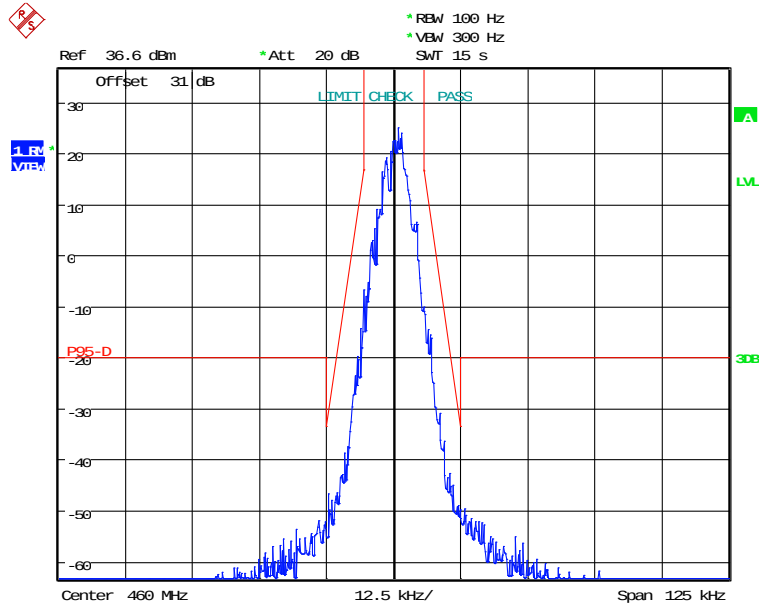
MAX OUTPUT POWER 469.9875MHz
Date: 22.MAR.2025 23:03:30

FCC ID: 2BO38-SC58X-H

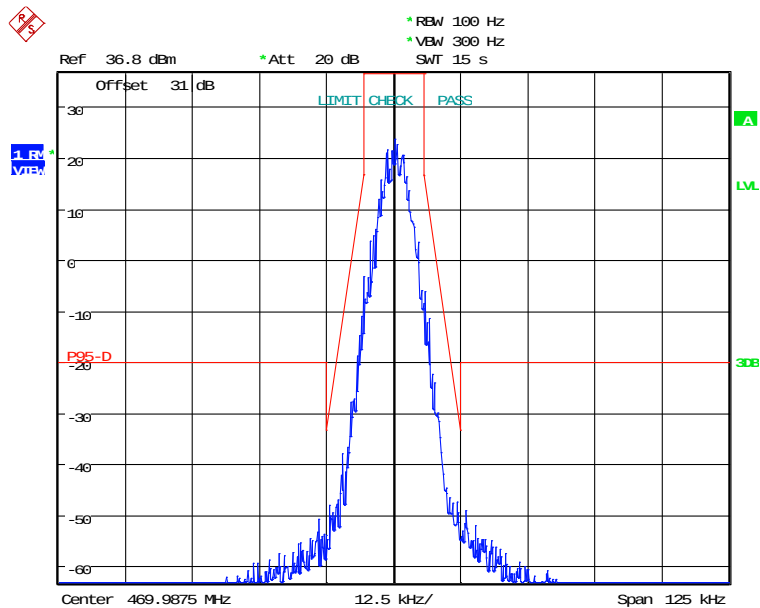


Registration number: W6R22506-24504-C-2

FCC ID: 2BO38-SC58X-H



MASK 460MHz
Date: 14.AUG.2025 19:19:26



MASK 469.9875MHz
Date: 4.AUG.2025 17:34:53

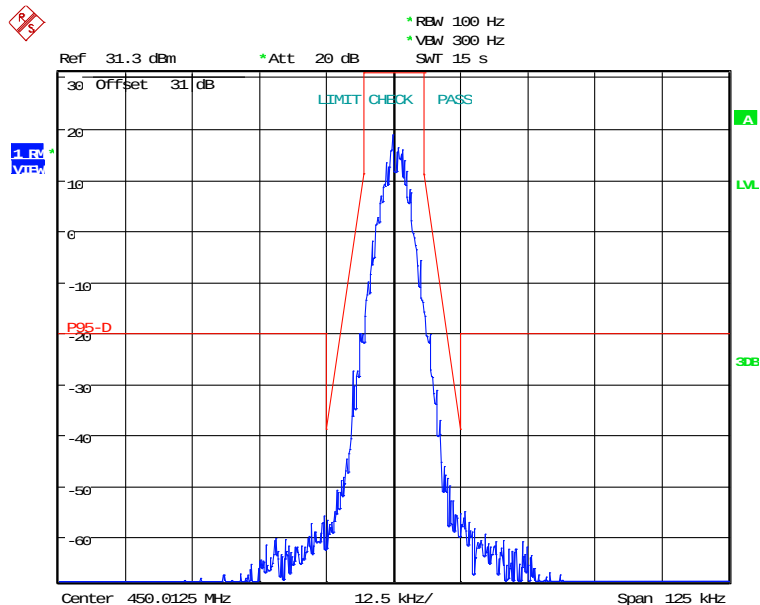


Worldwide Testing Services(Taiwan) Co., Ltd.

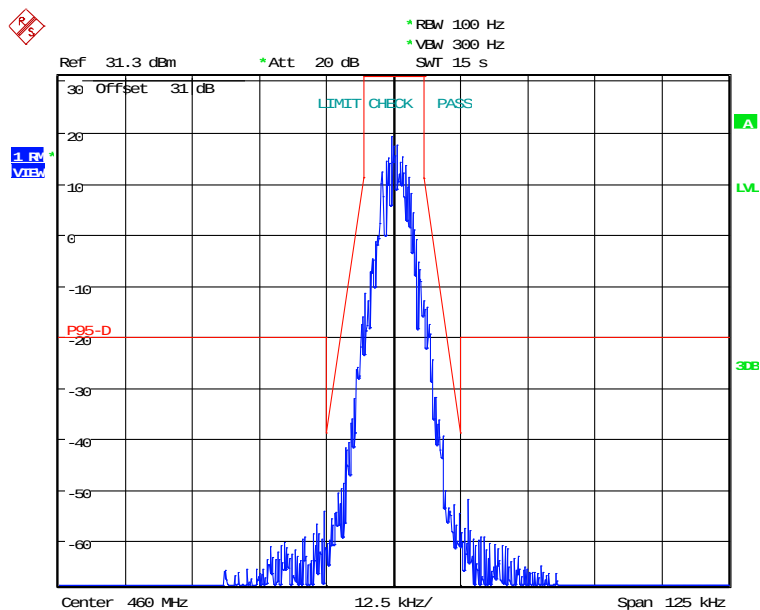
Registration number: W6R22506-24504-C-2

FCC ID: 2B038-SC58X-H

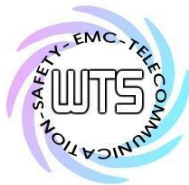
Low power



MASK 450.0125MHz
Date: 23.MAR.2025 01:21:34

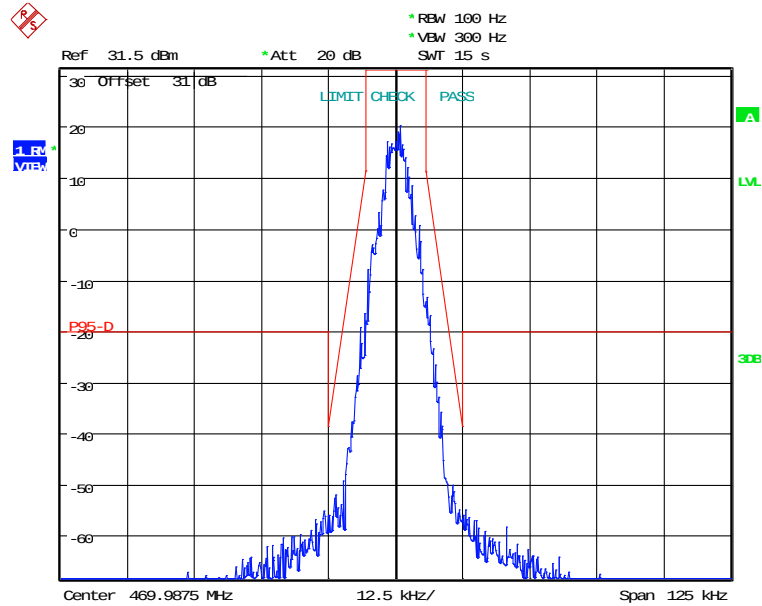


MASK 460MHz
Date: 23.MAR.2025 01:23:50



Registration number: W6R22506-24504-C-2

FCC ID: 2BO38-SC58X-H



MASK 469.9875MHz
Date: 23.MAR.2025 01:26:32

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

Registration number: W6R22506-24504-C-2

FCC ID: 2BO38-SC58X-H

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.

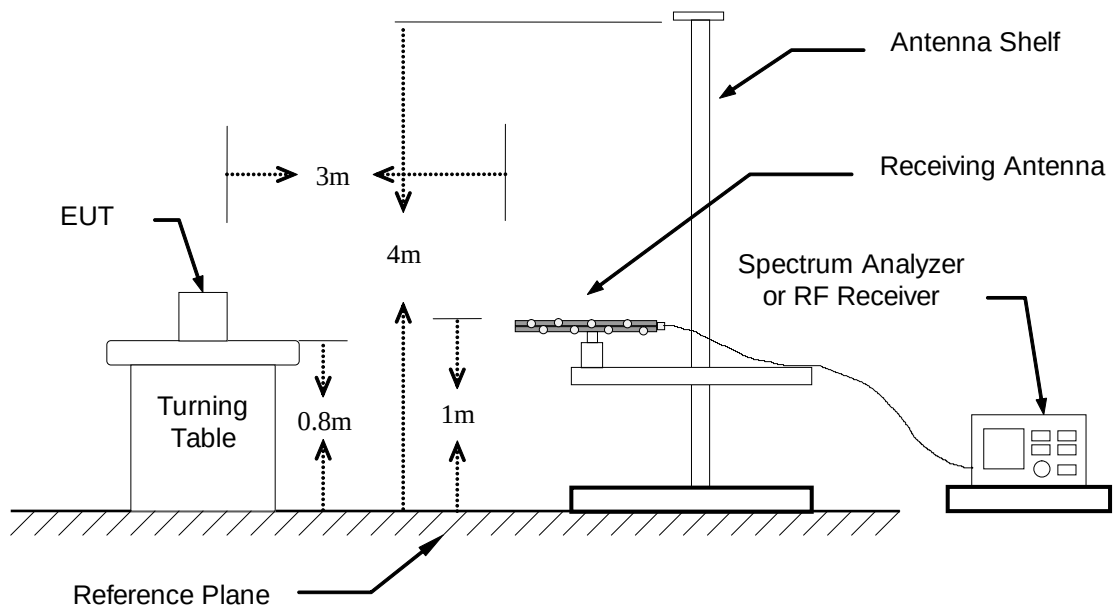
Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

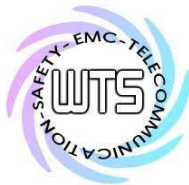
ERP was measured using a substitution method. The EUT was replaced by reference antenna connected to a signal generator.

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: W6R22506-24504-C-2

FCC ID: 2BO38-SC58X-H

8.3 Test Result

Model: SC582-H

Date: --

Mode: --

Temperature: -- °C

Engineer: --

Polarization: Horizontal

Humidity: -- %

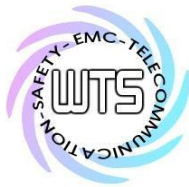
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

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: W6R22506-24504-C-2

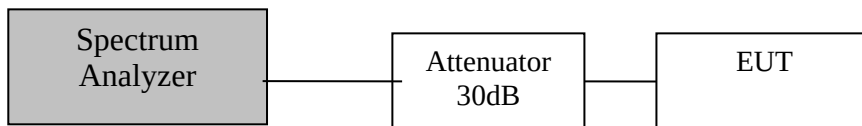
FCC ID: 2BO38-SC58X-H

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: March 22, 2025-August 04, 2025

Temperature: 27.5°C

Humidity: 52.0%

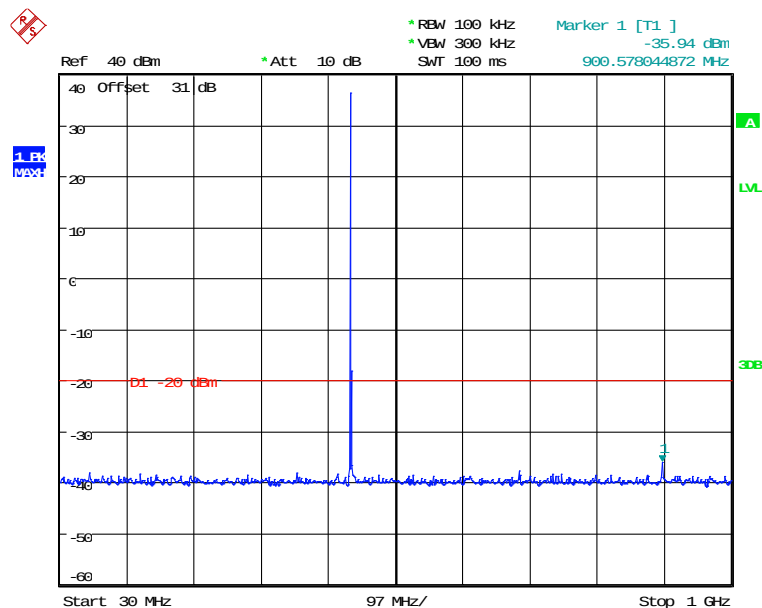
Tester: Rick



Registration number: W6R22506-24504-C-2

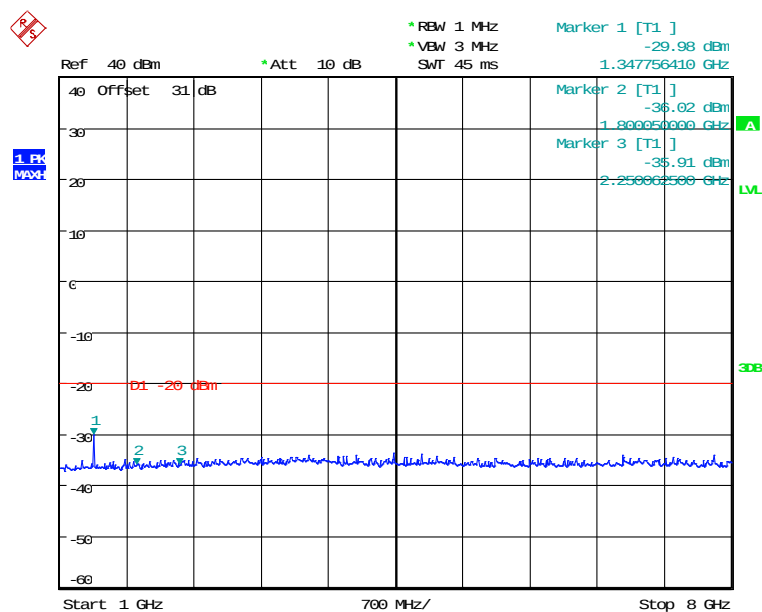
FCC ID: 2BO38-SC58X-H

High power



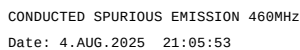
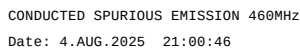
CONDUCTED SPURIOUS EMISSION 450.0125MHz

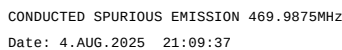
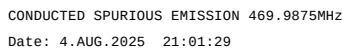
Date: 4.AUG.2025 21:00:11



CONDUCTED SPURIOUS EMISSION 450.0125MHz

Date: 4.AUG.2025 21:11:18



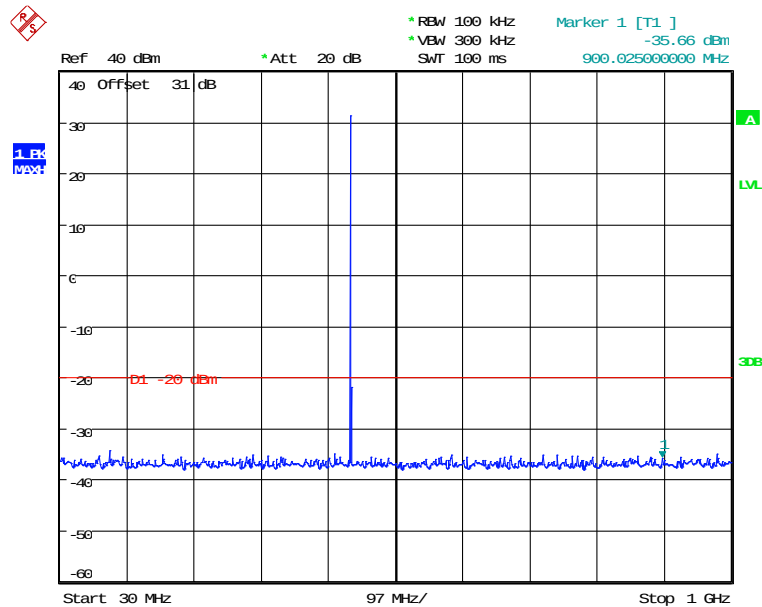




Registration number: W6R22506-24504-C-2

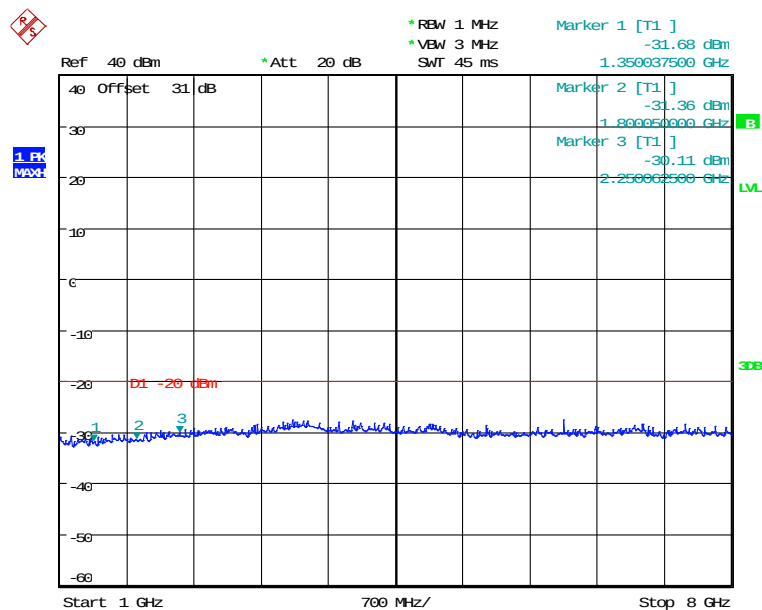
FCC ID: 2BO38-SC58X-H

Low power



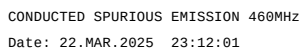
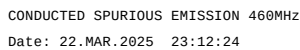
CONDUCTED SPURIOUS EMISSION 450.0125MHz

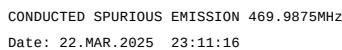
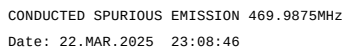
Date: 22.MAR.2025 23:13:05

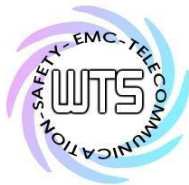


CONDUCTED SPURIOUS EMISSION 450.0125MHz

Date: 22.MAR.2025 23:42:07







Registration number: W6R22506-24504-C-2

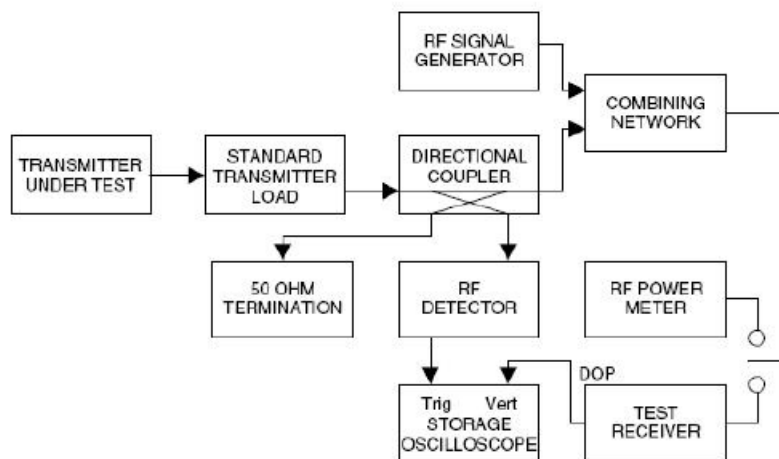
FCC ID: 2BO38-SC58X-H

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 t_1 and t_2 . See the figure in the appropriate standards section.
4. During the time from the end of t_2 to the beginning of t_3 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: W6R22506-24504-C-2

FCC ID: 2BO38-SC58X-H

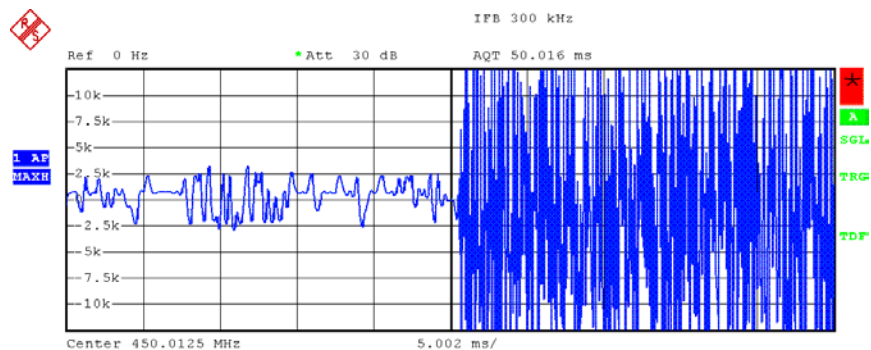
10.3 Test Result

Test date: March 25, 2025

Temperature: 23.5°C

Humidity: 55.0%

Tester: Rick



Frequency Modulation Summary

Coupling	DC	Carrier Offset	-12.271 Hz
Deviation	+peak	Carrier Power	23.31 dBm
	-peak	Modulation Frequency	---
	+peak/2	Sampling Rate	31.25 kHz
	RMS	Record Length	1564
		Demod Bandwidth	25 kHz

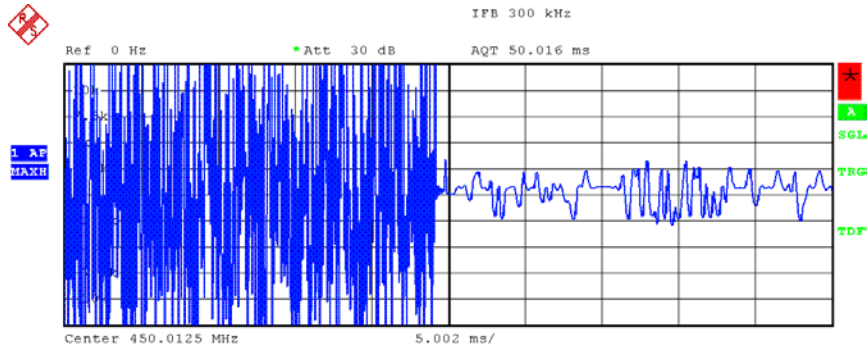
Date: 25.MAR.2025 16:04:38



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22506-24504-C-2

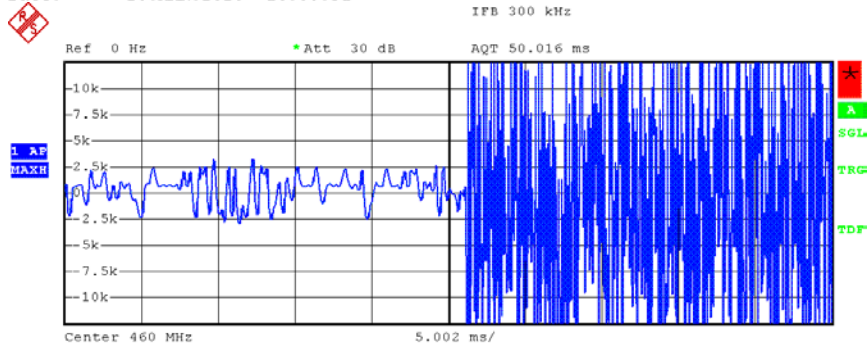
FCC ID: 2BO38-SC58X-H



Frequency Modulation Summary

Coupling	DC	Carrier Offset	490.69 Hz
Deviation	+peak 28.60 kHz	Carrier Power	23.33 dBm
	-peak -23.76 kHz	Modulation Frequency	--- Hz
	+peak/2 26.18 kHz	Sampling Rate	31.25 kHz
	RMS 6.656 kHz	Record Length	1564
		Demod Bandwidth	25 kHz

Date: 25.MAR.2025 16:05:31



Frequency Modulation Summary

Coupling	DC	Carrier Offset	73.618 Hz
Deviation	+peak 23.20 kHz	Carrier Power	17.43 dBm
	-peak -24.48 kHz	Modulation Frequency	--- Hz
	+peak/2 23.84 kHz	Sampling Rate	31.25 kHz
	RMS 6.620 kHz	Record Length	1564
		Demod Bandwidth	25 kHz

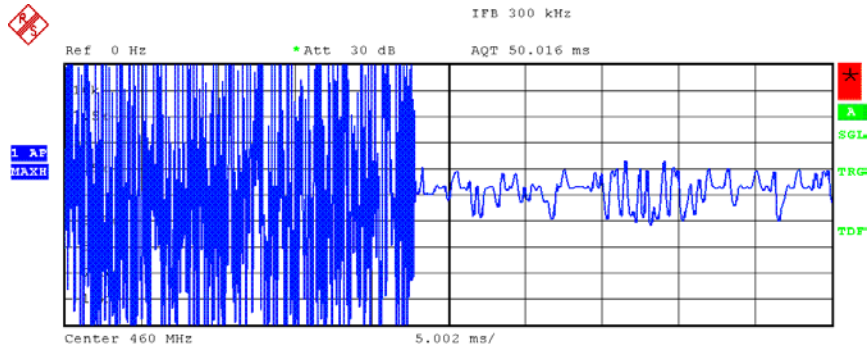
Date: 25.MAR.2025 16:07:08



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22506-24504-C-2

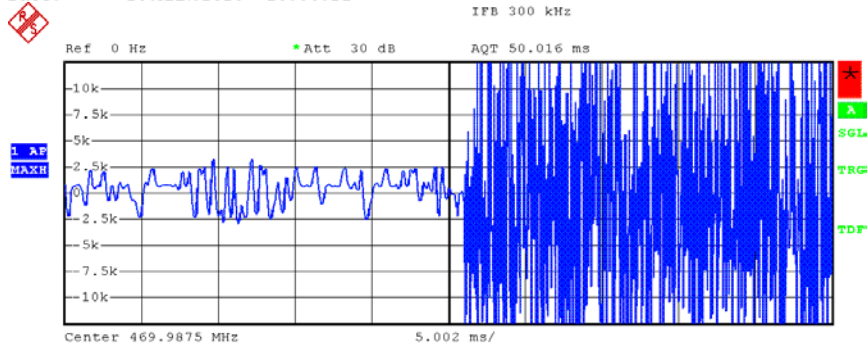
FCC ID: 2BO38-SC58X-H



Frequency Modulation Summary

Coupling	DC	Carrier Offset	559.90 Hz
Deviation	+peak 26.62 kHz	Carrier Power	17.94 dBm
	-peak -31.13 kHz	Modulation Frequency	--- Hz
	+peak/2 28.87 kHz	Sampling Rate	31.25 kHz
	RMS 6.666 kHz	Record Length	1564
		Demod Bandwidth	25 kHz

Date: 25.MAR.2025 16:06:21



Frequency Modulation Summary

Coupling	DC	Carrier Offset	237.00 Hz
Deviation	+peak 22.07 kHz	Carrier Power	17.92 dBm
	-peak -29.43 kHz	Modulation Frequency	--- Hz
	+peak/2 25.75 kHz	Sampling Rate	31.25 kHz
	RMS 6.596 kHz	Record Length	1564
		Demod Bandwidth	25 kHz

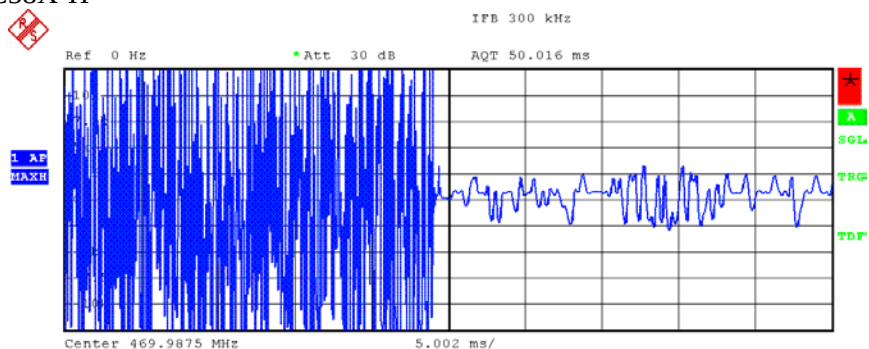
Date: 25.MAR.2025 16:07:48



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22506-24504-C-2

FCC ID: 2BO38-SC58X-H



Frequency Modulation Summary

Coupling	DC	Carrier Offset	51.362 Hz
Deviation	+peak 23.84 kHz	Carrier Power	17.99 dBm
	-peak -28.13 kHz	Modulation Frequency	--- Hz
	+peak/2 25.99 kHz	Sampling Rate	31.25 kHz
	RMS 6.870 kHz	Record Length	1564
		Demod Bandwidth	25 kHz

Date: 25.MAR.2025 16:13:47

Registration number: W6R22506-24504-C-2

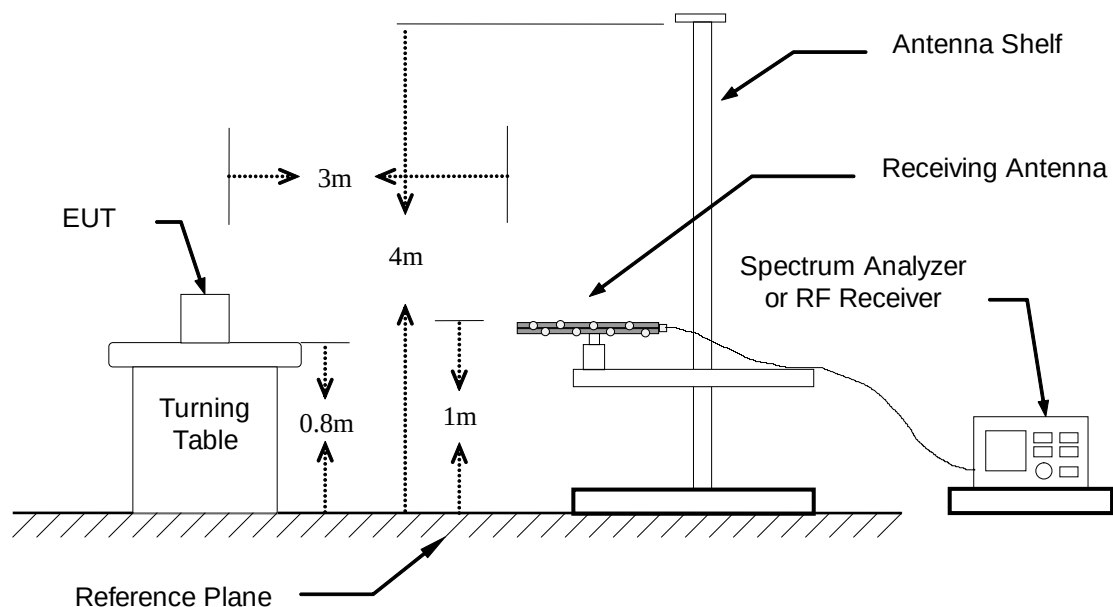
FCC ID: 2BO38-SC58X-H

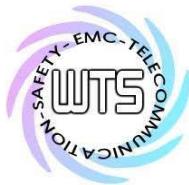
11. Receiver Radiated Spurious Emission

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: W6R22506-24504-C-2

FCC ID: 2BO38-SC58X-H

11.3 Test Result

Model: SC582-H 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.

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: W6R22506-24504-C-2
FCC ID: 2BO38-SC58X-H

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: Rick

File : 1

Data : #1

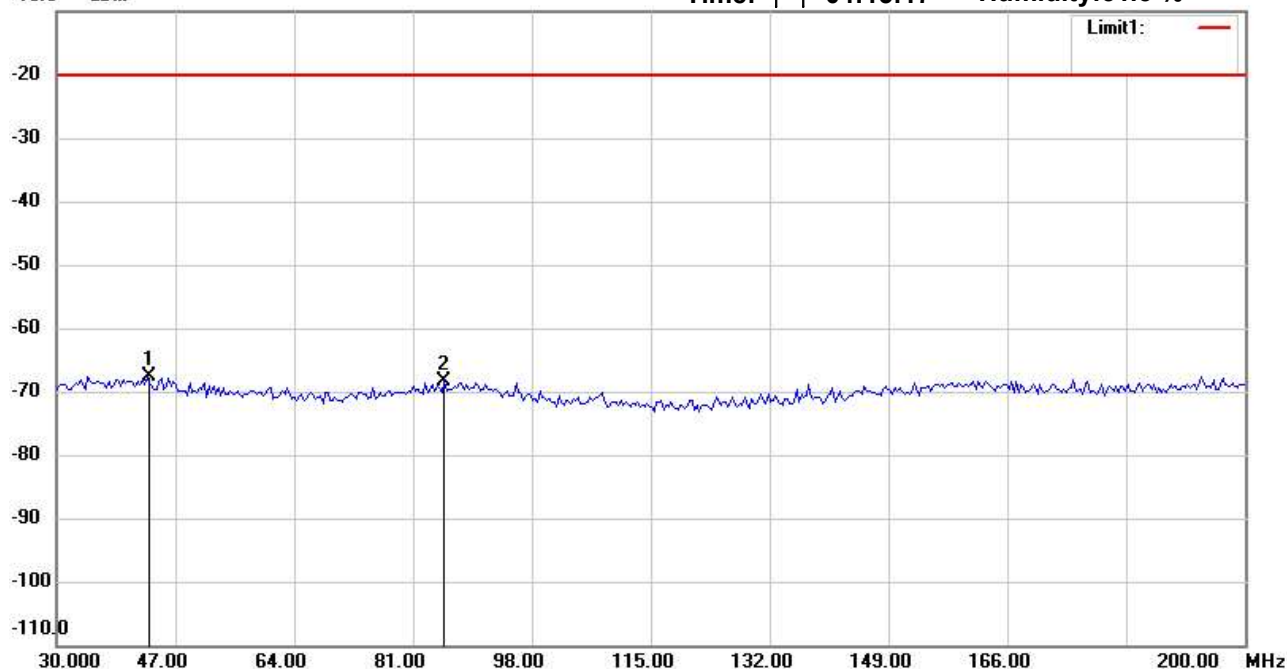
Date: 2025/3/21

Temperature: 23.1 °C

Time: 下午 04:15:17

Humidity: 51.5 %

-10.0 dBm



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22411-23912

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: **Horizontal**

Power : 7.2Vd.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
*	42.9460	-90.58	peak	23.02	-67.56	-20.00	150	200	-47.56	
	85.5310	-90.17	peak	21.71	-68.46	-20.00	150	130	-48.46	

*: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: Rick

File :1

Data :#2

Date: 2025/3/21

Temperature: 23.1 °C

-10.0 dBm

Time: 下午 04:29:20

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22411-23912

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: **Vertical**

Power : 7.2Vd.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
	60.6613	-89.02	peak	20.40	-68.62	-20.00	150	50	-48.62	
*	172.4047	-89.58	peak	21.99	-67.59	-20.00	150	210	-47.59	

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



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Radiated Emission Measurement

Operator: Rick

File : 2

Data : #1

Date: 2025/3/21

Temperature: 23.1 °C

-10.0 dBm

Time: 下午 09:06:54

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22411-23912

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: **Horizontal**

Power : 7.2Vd.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
	365.1303	-63.18	peak	-10.15	-73.33	-20.00	150	100	-53.33	
*	900.6012	-61.48	peak	-1.38	-62.86	-20.00	150	210	-42.86	

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



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Radiated Emission Measurement

Operator: Rick

File : 2

Data : #2

Date: 2025/3/21

Temperature: 23.1 °C

-10.0 dBm

Time: 下午 09:08:32

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22411-23912

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: Vertical

Power : 7.2Vd.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
*	368.3367	-43.92	peak	-11.26	-55.18	-20.00	150	230	-35.18	
	900.6012	-55.63	peak	-2.17	-57.80	-20.00	150	140	-37.80	

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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #1

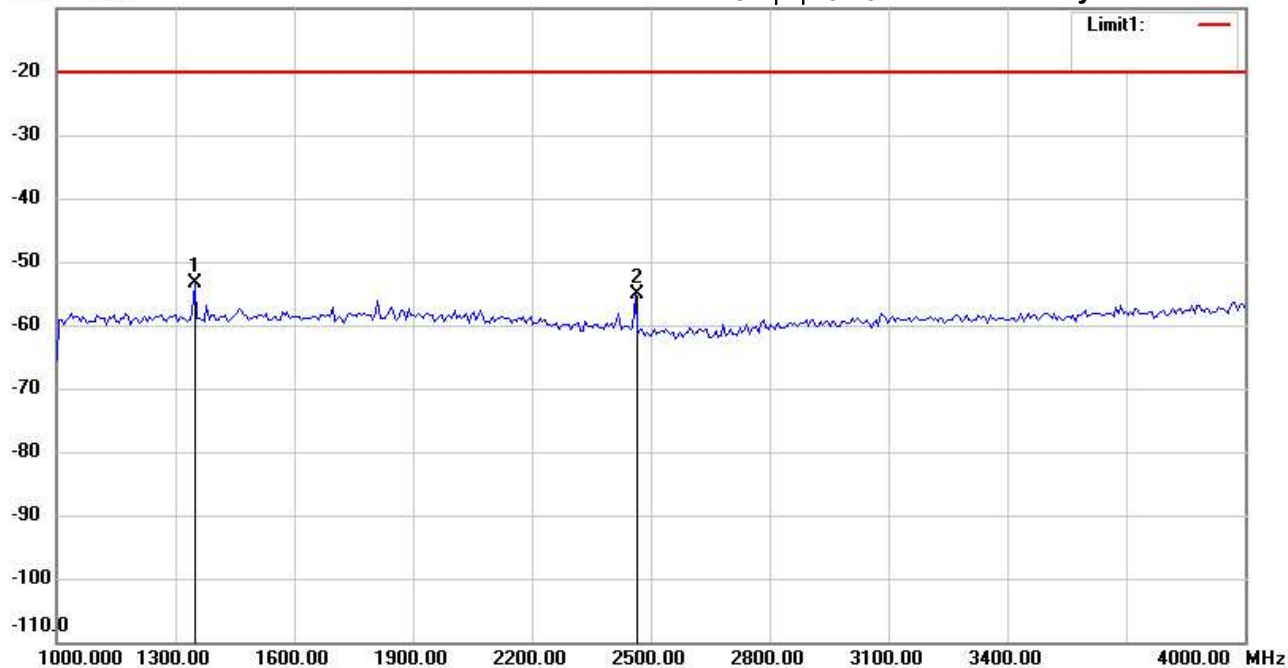
Date: 2025/3/21

Temperature: 23.1 °C

-10.0 dBm

Time: 下午 04:34:44

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22411-23912

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: **Horizontal**

Power : 7.2Vd.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	-57.05	peak	3.59	-53.46	-20.00	150	80	-33.46	
	2460.922	-56.29	peak	1.18	-55.11	-20.00	150	120	-35.11	

*: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: Rick

File : 3

Data : #4

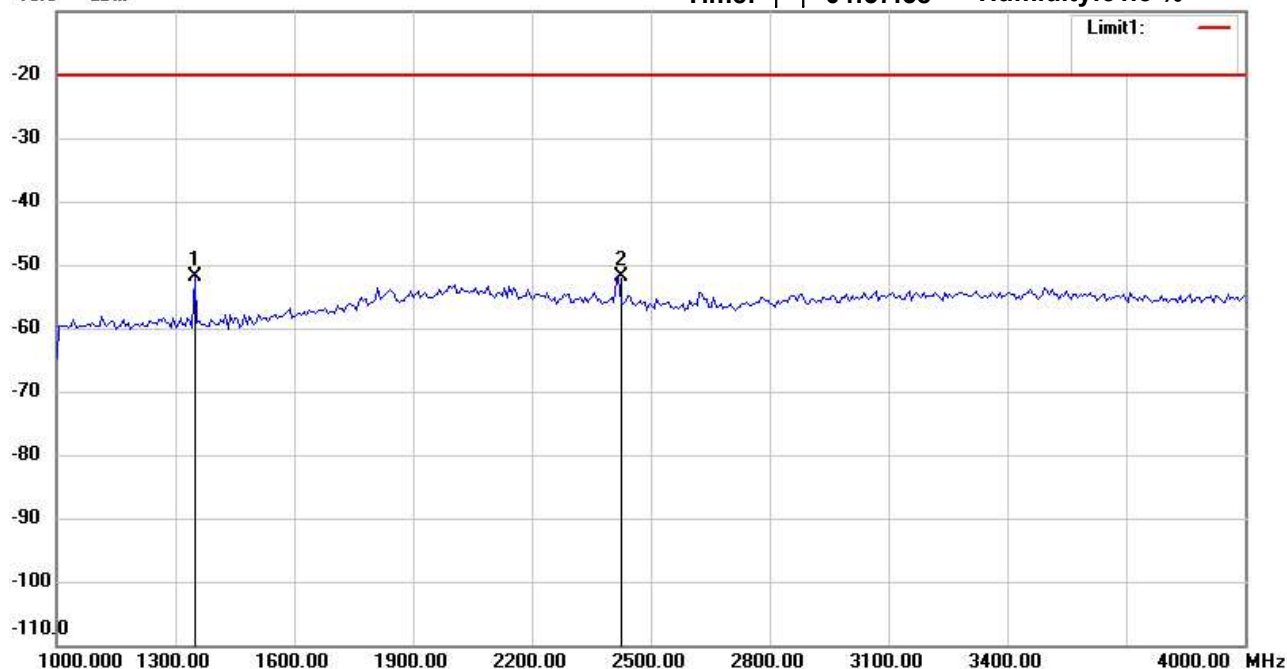
Date: 2025/3/21

Temperature: 23.1 °C

-10.0 dBm

Time: 下午 04:37:58

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22411-23912

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: Vertical

Power : 7.2Vd.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	-55.33	peak	3.48	-51.85	-20.00	150	140	-31.85	
	2418.838	-58.40	peak	6.51	-51.89	-20.00	150	200	-31.89	

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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #2

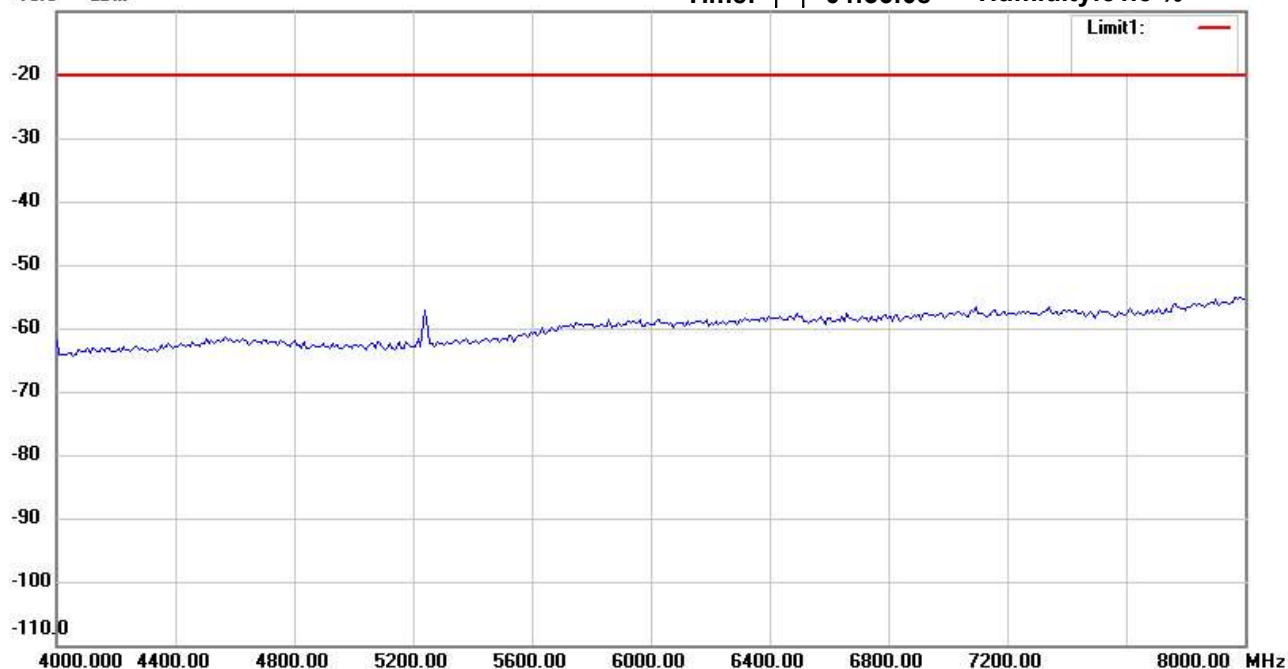
Date: 2025/3/21

Temperature: 23.1 °C

-10.0 dBm

Time: 下午 04:36:08

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22411-23912

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: **Horizontal**

Power : 7.2Vd.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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#5

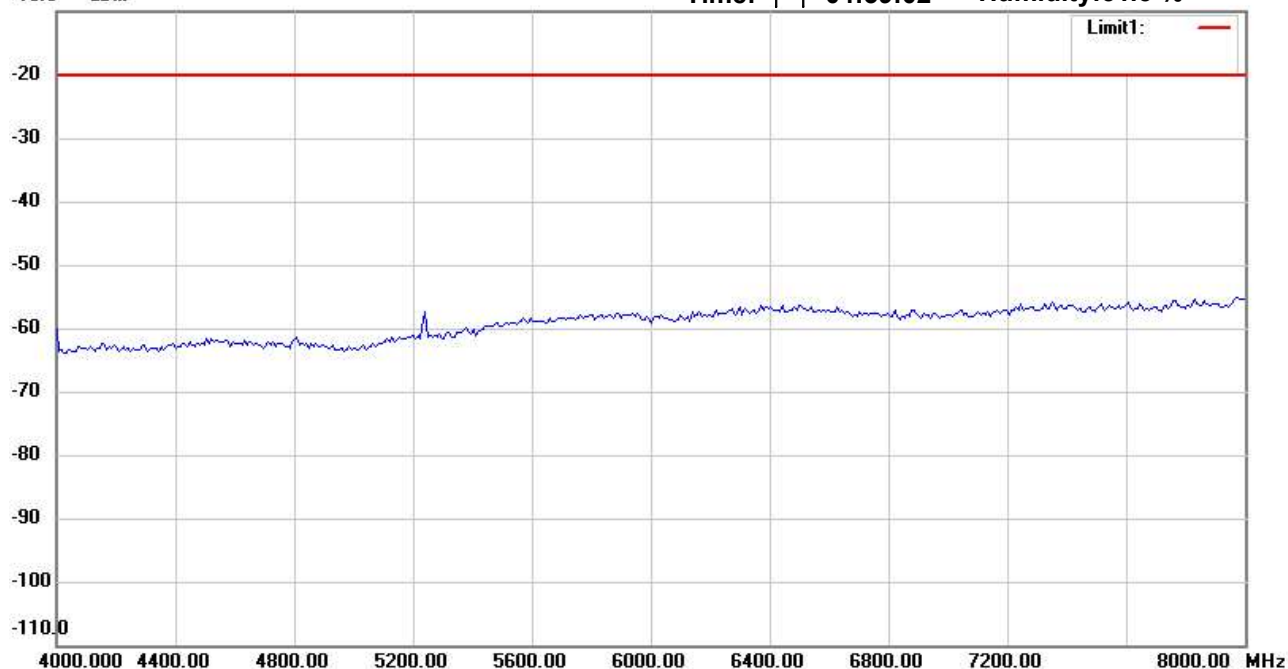
Date: 2025/3/21

Temperature:23.1 °C

Time: 下午 04:39:02

Humidity:51.5 %

-10.0 dBm



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22411-23912

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: **Vertical**

Power : 7.2Vd.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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #3

Date: 2025/3/21

Temperature: 23.1 °C

-10.0 dBm

Time: 下午 10:49:29

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22411-23912

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: **Horizontal**

Power : 7.2Vd.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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #6

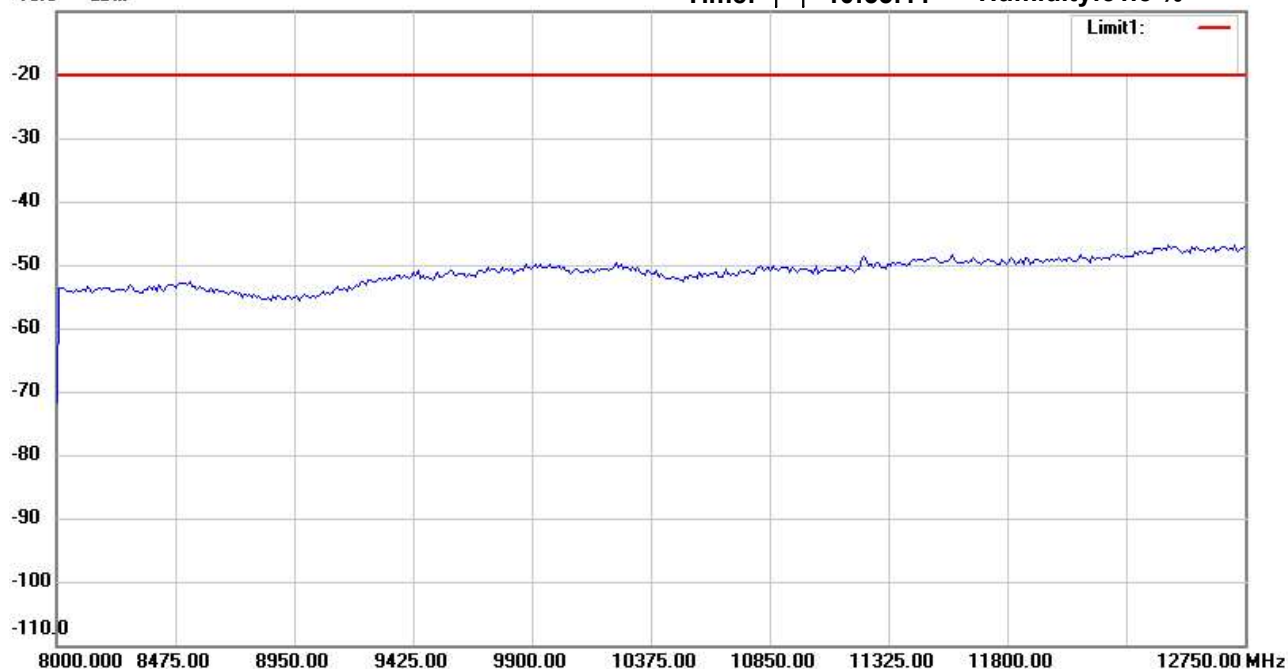
Date: 2025/3/21

Temperature: 23.1 °C

-10.0 dBm

Time: 下午 10:55:11

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 RE

EUT : W6M22411-23912

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: **Vertical**

Power : 7.2Vd.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



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Radiated Emission Measurement

Operator: Rick

File : POWER

Data : #1

Date: 2025/3/21

Temperature: 23.1 °C

50.0 dBm

Time: 下午 09:49:24

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 POWER-33db

EUT : W6M22411-23912

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: **Horizontal**

Power : 7.2Vd.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
*	450.0120	-13.80	peak	27.49	13.69	33.00	150	270	-19.31	

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



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Radiated Emission Measurement

Operator: Rick

File : POWER

Data : #2

Date: 2025/3/21

Temperature: 23.1 °C

50.0 dBm

Time: 下午 09:50:53

Humidity: 51.5 %



Site : 966A Chamber

Condition : FCC_part 90 POWER-33db

EUT : W6M22411-23912

M/N:

Test Mode : TX 450.0125MHz

Note :

Polarization: **Vertical**

Power : 7.2Vd.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
*	450.0110	0.95	peak	26.80	27.75	33.00	150	120	-5.25	

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