

47 CFR PART 15 SUBPART C / RSS-210

TEST REPORT

for

Touch Screen Electronic Lever + RFID

Model No.: A56_Z5L3

FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

of

Applicant: Taiwan Fu Hsing Industrial Co., Ltd.

**Address: No.88, Yucai Rd., Gangshan Dist., Kaohsiung City 820,
Taiwan (R.O.C.)**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

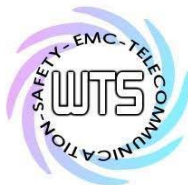
FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037

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



Report No.: W6M22412-24018-C-1

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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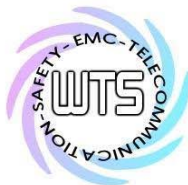
Registration number: W6M22412-24018-C-1

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TABLE OF CONTENTS

1	GENERAL INFORMATION	2
1.1	NOTES.....	2
1.2	TESTING LABORATORY	3
1.2.1	Location	3
1.2.2	Details of accreditation status	3
1.3	DETAILS OF APPROVAL HOLDER.....	4
1.4	APPLICATION DETAILS	4
1.5	GENERAL INFORMATION OF TEST ITEM	4
1.6	TEST STANDARDS.....	4
2	TECHNICAL TEST	5
2.1	SUMMARY OF TEST RESULTS	5
2.2	TEST ENVIRONMENT	5
2.3	TEST EQUIPMENT LIST	6
2.4	GENERAL TEST PROCEDURE	7
3	TEST RESULTS (ENCLOSURE)	9
3.1	OUTPUT POWER (FIELD STRENGTH)	10
3.2	OUT OF BAND RADIATED EMISSIONS.....	11
3.3	OCCUPIED BANDWIDTH	12
3.4	FREQUENCY TOLERANCE	13
3.5	POWER LINE CONDUCTED EMISSION	15
	APPENDIX	16



Registration number: W6M22412-24018-C-1

FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

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.

Tester:

February 27, 2025

Kent Lin

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

February 27, 2025

Kevin Wang

Date

WTS

Name

Signature



Registration number: W6M22412-24018-C-1

FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

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.)

Xizhi Lab

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

Worldwide Testing Services (Taiwan) Co., Ltd.

6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)

Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory

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

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

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

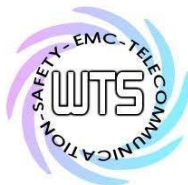
Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.



Registration number: W6M22412-24018-C-1

FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

1.3 Details of approval holder

Name: Taiwan Fu Hsing Industrial Co., Ltd.
Street: No.88, Yucai Rd., Gangshan Dist.,
City: Kaohsiung City 820,
Country: Taiwan (R.O.C.)

1.4 Application details

Date of receipt of test item: January 10, 2025
Date of test: from January 13, 2025 to January 20, 2025

1.5 General information of Test item

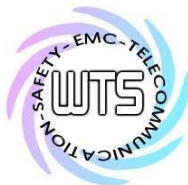
Description of test item: Touch Screen Electronic Lever + RFID
Type identification: A56_Z5L3
Multi-listing model number: ./.
Transmitting frequency: 13.56 MHz
Operation mode: Duplex
Voltage supply: 6Vd.c. (AAA batteries*4)
Antenna type: Loop antenna
Sample no.: #01

Manufacturer: (if applicable)

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

1.6 Test standards

47 CFR PART 15 SUBPART C § 15.225 (2023-10)
ANSI C63.10-2013
RSS-210 Issue 11 Amendment (2024-06)



Registration number: W6M22412-24018-C-1

FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

2 Technical test

2.1 Summary of test results

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



or

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



2.2 Test environment

Relative humidity content: 20 ... 75 %

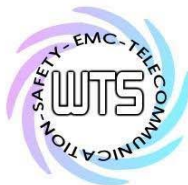
Air pressure: 86 ... 103 kPa

Details of power supply: 6Vd.c. (AAA batteries*4)

Extreme conditions parameters: ./.

Test item Name	Measurement Uncertainty
Estimation Result of Uncertainty of Conducted Emission (Power Line Conducted Emission)	Expanded Uncertainty : AMN : 0.94 dB Voltage probe : 1.21 dB Include Pulse Limiter : 1.5 dB
Estimation Result of Uncertainty of Radiated Emission(3M-966A) (Output Power (Field Strength), Out of Band Radiated Emissions, Band Edge)	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 (Occupied Bandwidth)	Expanded Uncertainty : 0.37 kHz
Estimation Result of Uncertainty of Frequency Drift Measurement (Frequency tolerance)	Expanded Uncertainty : 6.11 Hz

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



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22412-24018-C-1

FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

2.3 Test Equipment List

Power & Occupied bandwidth & Spurious emission (966A Below 30MHz)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2024/9/11	2025/9/10
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2024/4/10	2025/4/9
ETSTW-RE 176	Loop Antenna	FMZB 1513-60	39	SCHWARZBECK	2024/8/21	2025/8/20
ETSTW-Cable 090	N type Cable (15m)	EMCCFD400-NM-NM-15000	230732	EMCI	2024/8/3	2025/8/2

Spurious emission (966A Above 30MHz)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2024/9/11	2025/9/10
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2024/4/10	2025/4/9
ETSTW-RE 160	Amplifier Module	CHC 3	None	WTS	2024/7/12	2025/7/11
ETSTW-RE 176	Loop Antenna	FMZB 1513-60	39	SCHWARZBECK	2024/8/21	2025/8/20
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168&EMCI-N-6-06	01380&AT-06007	SCHWARZBECK&EMC	2024/3/4	2025/3/3
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
ETSTW-Cable 090	N type Cable (15m)	EMCCFD400-NM-NM-15000	230732	EMCI	2024/8/3	2025/8/2

Frequency tolerance

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2024/7/23	2025/7/22
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2024/3/7	2025/3/6



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FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.10-2013 6.2 using a LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.10-2013 6.3 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

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

Example:

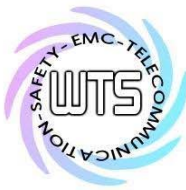
Freq (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dBμV + 10.36 dB + 6 dB = 36.36 dBμV/m @3m

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

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

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

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



Registration number: W6M22412-24018-C-1

FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

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

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor = $20 \log (\text{dwell time}/T)$

$T = 100\text{ms}$ when the pulse train period is over 100 ms or the period of the pulse train.

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

ANSI STANDARD C63.10-2013 B.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



Registration number: W6M22412-24018-C-1

FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Output Power Field Strength	15.225 (a) (b) (c) RSS-210 Annex B B.6	☒	☒	☐
Out of Band Radiated Emissions	15.225 (d) RSS-210 Annex B B.6	☒	☒	☐
Band Edge	15.225 (d) RSS-210 Annex B B.6	☒	☒	☐
Occupied Bandwidth	2.1049 RSS-Gen 6.7	☒	☒	☐
Frequency Stability	15.225 (e) RSS-210 Annex B B.6	☒	☒	☐
Power Line Conducted Emission	15.207 (a) RSS-Gen 8.8	☐	☐	☐

The following is intentionally left blank.



Registration number: W6M22412-24018-C-1

FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

3.1 Output Power (Field Strength)

FCC Rules: 15.225 (a) (b) (c), 15.205, 15.209, 15.35

Operation within the band 13.110 - 14.010 MHz

Limit

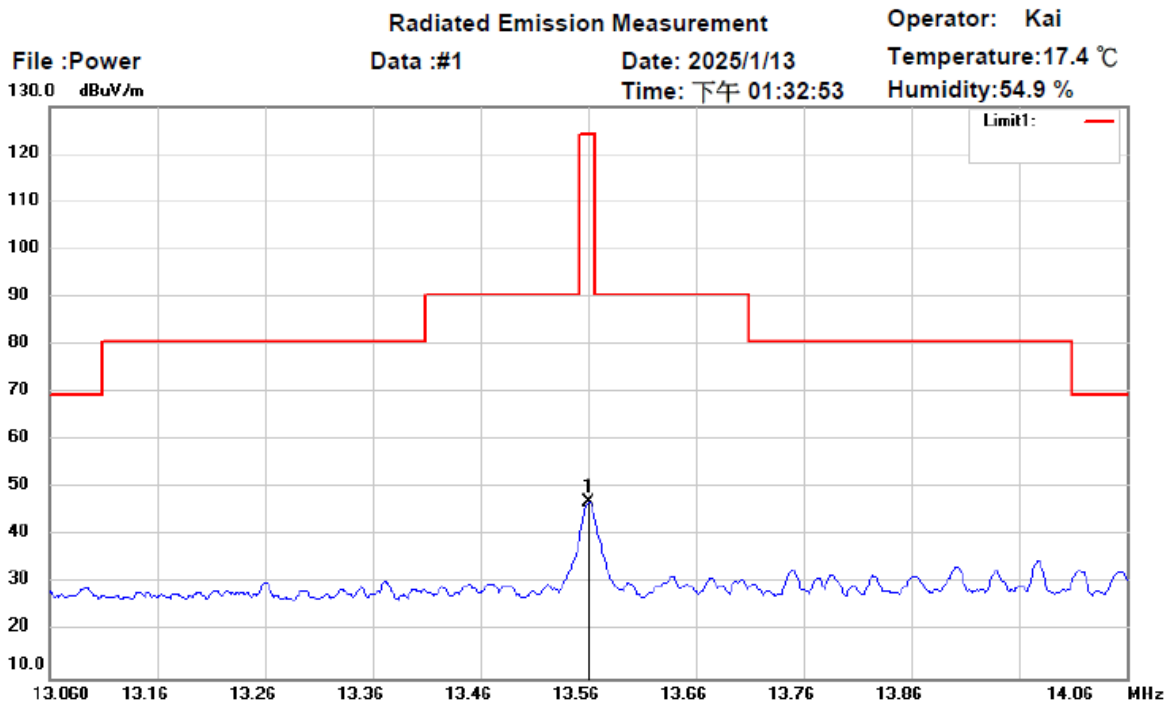
(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

Measurement Results:

The field strength at 3 meter distance as 46.98 dBμV/m. Extrapolated with 40dB to 30 meter distance it would be 6.98 dBμV/m.



Site : Chamber

Condition : FCC 15.225 power (3m)(13.56MHz)

EUT : W6M22412-24018

M/N:

Test Mode : TX 13.56MHz

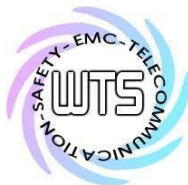
Note :

Polarization:

Power : 6 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	13.5610	24.77	peak	22.21	46.98	124.00	100	359	-77.02	



Registration number: W6M22412-24018-C-1

FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

3.2 Out of Band Radiated Emissions

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Frequency of Emission (MHz)	Limit	Measurement distance
0.009 – 0.490	2400 / f (KHz)	300
0.49 – 1.705	24000 / f (KHz)	30
1.705 – 30	30	30
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

Calculation of test results:

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

Summary table with radiated data of the test plots

Model: A56_Z5L3 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. See attached diagrams in appendix.

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

Test results: The unit meet the FCC requirements.



Registration number: W6M22412-24018-C-1

FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

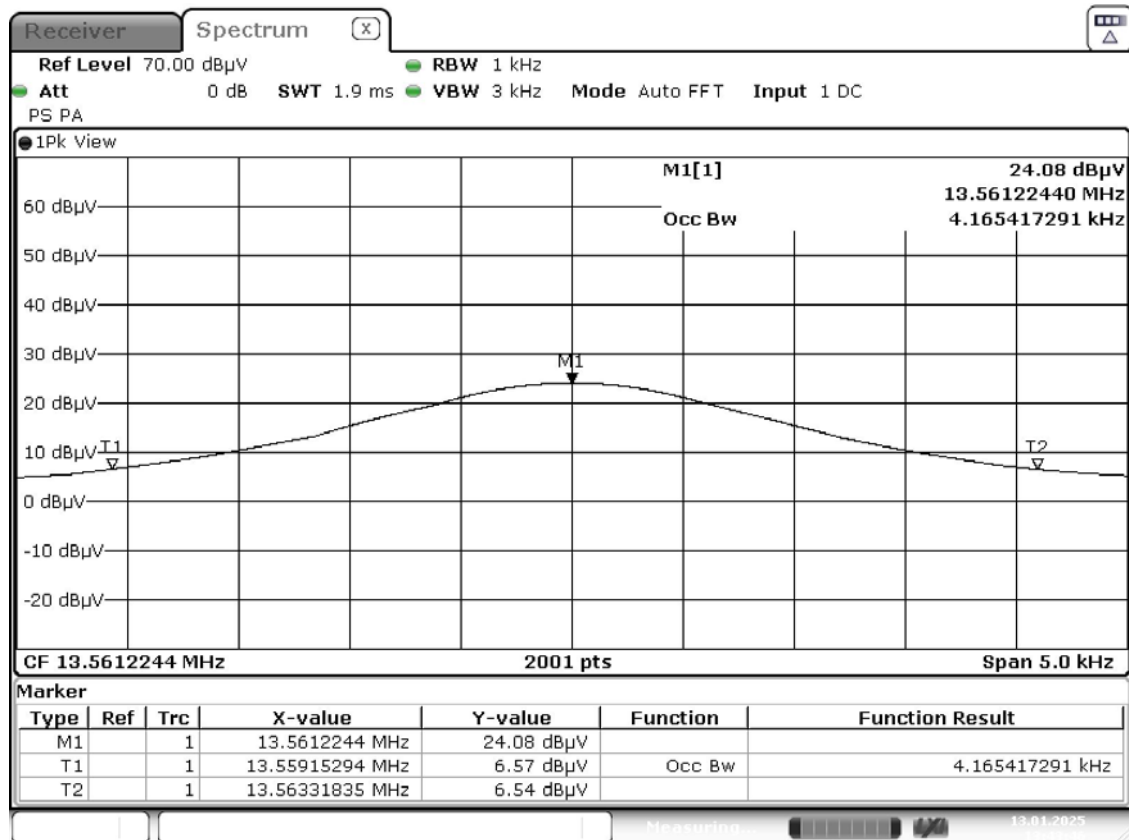
3.3 Occupied Bandwidth

Test date: January 13, 2025

Temperature: 23.8 °C

Humidity: 54.9 %

Tester: Sky



Date: 13.JAN.2025 13:43:46



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FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

3.4 Frequency tolerance

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20°C to +50°C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20°C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Test date: January 20, 2025

Temperature: 21.5 °C

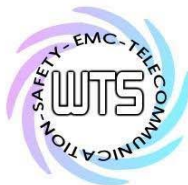
Humidity: 57.1 %

Tester: Sky

Measurement Results:

Voltage (V.d.c.)	Duration Time (minutes)	Frequency (MHz)	Frequency deviation (kHz)	Limit (0.01%) (kHz)
5.4	0	13.561234	-0.016	-0.00012%
	2	13.561234	-0.016	-0.00012%
	5	13.561234	-0.016	-0.00012%
	10	13.561234	-0.016	-0.00012%
6	0	13.561250	0.000	0.00000%
	2	13.561250	0.000	0.00000%
	5	13.561250	0.000	0.00000%
	10	13.561250	0.000	0.00000%
6.6	0	13.561226	-0.024	-0.00018%
	2	13.561226	-0.024	-0.00018%
	5	13.561226	-0.024	-0.00018%
	10	13.561226	-0.024	-0.00018%

*Represent test standard frequency



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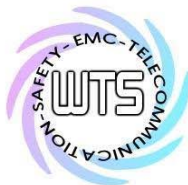
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FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

Temperature (°C)	Duration Time (minutes)	Frequency (MHz)	Frequency deviation (kHz)	Limit (0.01%) (kHz)
50	0	13.561194	-0.056	-0.00041%
	2	13.561194	-0.056	-0.00041%
	5	13.561194	-0.056	-0.00041%
	10	13.561194	-0.056	-0.00041%
40	0	13.561218	-0.032	-0.00024%
	2	13.561218	-0.032	-0.00024%
	5	13.561218	-0.032	-0.00024%
	10	13.561218	-0.032	-0.00024%
30	0	13.561250	0.000	0.00000%
	2	13.561250	0.000	0.00000%
	5	13.561250	0.000	0.00000%
	10	13.561250	0.000	0.00000%
20	0	13.561250	0.000	0.00000%
	2	13.561250	0.000	0.00000%
	5	13.561250	0.000	0.00000%
	10	13.561250	0.000	0.00000%
10	0	13.561202	-0.048	-0.00035%
	2	13.561202	-0.048	-0.00035%
	5	13.561202	-0.048	-0.00035%
	10	13.561202	-0.048	-0.00035%
0	0	13.561226	-0.024	-0.00018%
	2	13.561226	-0.024	-0.00018%
	5	13.561226	-0.024	-0.00018%
	10	13.561226	-0.024	-0.00018%
-10	0	13.561266	0.016	0.00012%
	2	13.561266	0.016	0.00012%
	5	13.561266	0.016	0.00012%
	10	13.561266	0.016	0.00012%
-20	0	13.561226	-0.024	-0.00018%
	2	13.561226	-0.024	-0.00018%
	5	13.561226	-0.024	-0.00018%
	10	13.561226	-0.024	-0.00018%

*Represent test standard frequency



Registration number: W6M22412-24018-C-1

FCC ID: O3I-A56Z5L3

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3.5 Power Line Conducted Emission

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

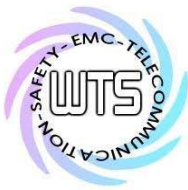
This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

Frequency	Level (dB μ V)	
	quasi-peak	average
150 kHz	lower limit line	Lower limit line

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

Limits:

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



Registration number: W6M22412-24018-C-1

FCC ID: O3I-A56Z5L3

IC: 10365A-A56Z5L3

Appendix

Measurement diagrams

Radiated Emissions



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Kai

File :1

Data :#1

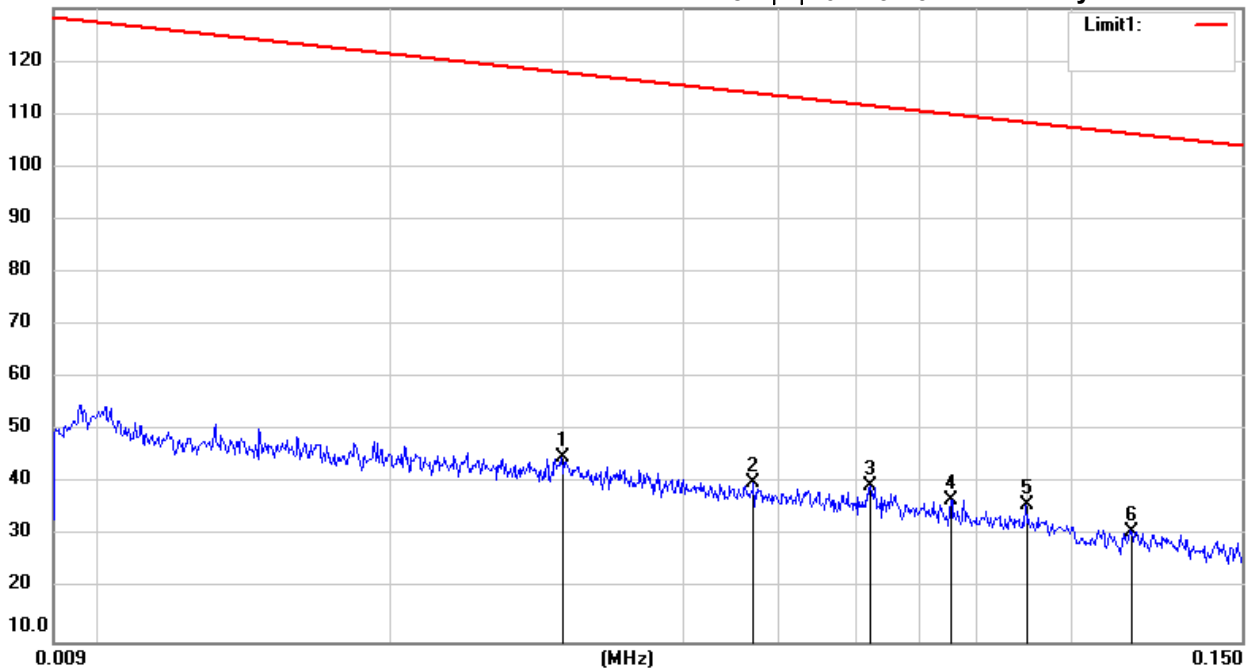
Date: 2025/1/13

Temperature:17.4 °C

130.0 dBuV/m

Time: 下午 01:23:43

Humidity:54.9 %



Site : Chamber

Condition : FCC 15.225 RE (3m)(13.56MHz)

EUT : W6M22412-24018

M/N:

Test Mode : TX 13.56MHz

Note :

Polarization:

Power : 6 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	0.0300	25.47	peak	19.49	44.96	117.92	100	21	-72.96	
	0.0472	21.11	peak	19.00	40.11	114.01	100	312	-73.90	
*	0.0622	20.59	peak	18.83	39.42	111.62	100	22	-72.20	
	0.0752	18.10	peak	18.73	36.83	109.98	100	265	-73.15	
	0.0900	17.32	peak	18.62	35.94	108.43	100	188	-72.49	
	0.1153	12.40	peak	18.60	31.00	106.29	100	9	-75.29	

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



Radiated Emission Measurement

Operator: Kai

File :2

Data :#1

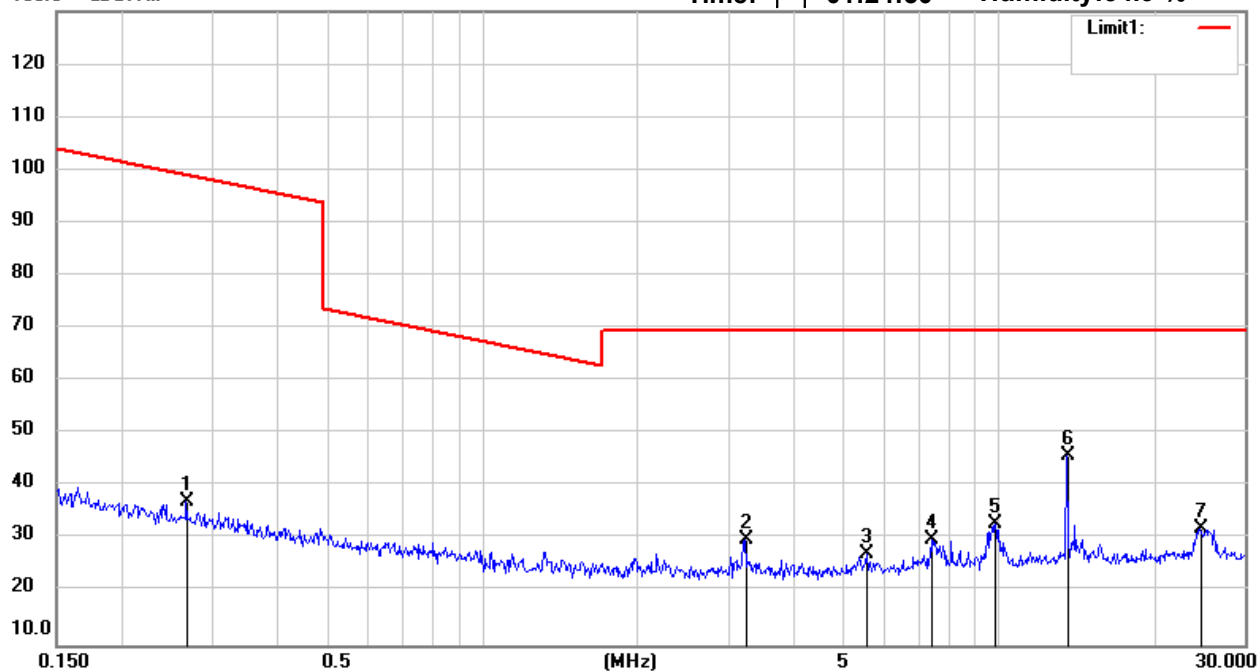
Date: 2025/1/13

Temperature:17.4 °C

130.0 dBuV/m

Time: 下午 01:24:50

Humidity:54.9 %



Site : Chamber

Condition : FCC 15.225 RE (3m)(13.56MHz)

EUT : W6M22412-24018

M/N:

Test Mode : TX 13.56MHz

Note :

Polarization:

Power : 6 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	0.2680	17.89	peak	19.20	37.09	99.01	100	230	-61.92	
	3.2240	10.31	peak	19.78	30.09	69.54	100	266	-39.45	
	5.5640	7.29	peak	20.11	27.40	69.54	100	5	-42.14	
	7.4268	9.17	peak	20.81	29.98	69.54	100	18	-39.56	
	9.8606	11.28	peak	21.72	33.00	69.54	100	255	-36.54	
*	13.5868	23.67	peak	22.21	45.88	69.54			-23.66	RF Power
	24.5942	8.39	peak	23.71	32.10	69.54	100	11	-37.44	



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Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Kai

File :3

Data :#1

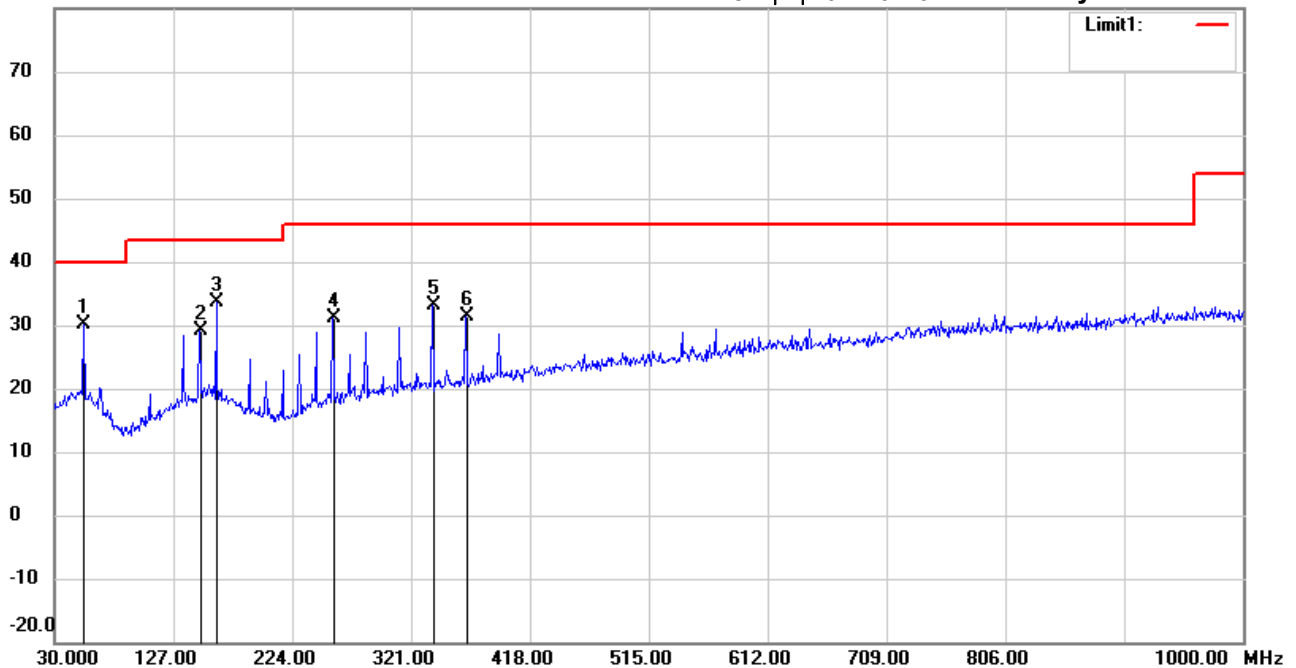
Date: 2025/1/13

Temperature:17.4 °C

80.0 dBuV/m

Time: 下午 01:10:46

Humidity:54.9 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M22412-24018

M/N:

Test Mode : TX 13.56MHz

Note :

Polarization: *Horizontal*

Power : 6 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	53.7650	42.73	peak	-12.70	30.03	40.00	100	267	-9.97	
	148.8250	41.48	peak	-12.28	29.20	43.50	100	204	-14.30	
*	162.4050	45.95	peak	-12.37	33.58	43.50	100	115	-9.92	
	257.4650	44.66	peak	-13.49	31.17	46.00	100	219	-14.83	
	338.9450	44.54	peak	-11.32	33.22	46.00	100	328	-12.78	
	366.1050	42.07	peak	-10.64	31.43	46.00	100	186	-14.57	

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



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Radiated Emission Measurement

Operator: Kai

File :3

Data :#2

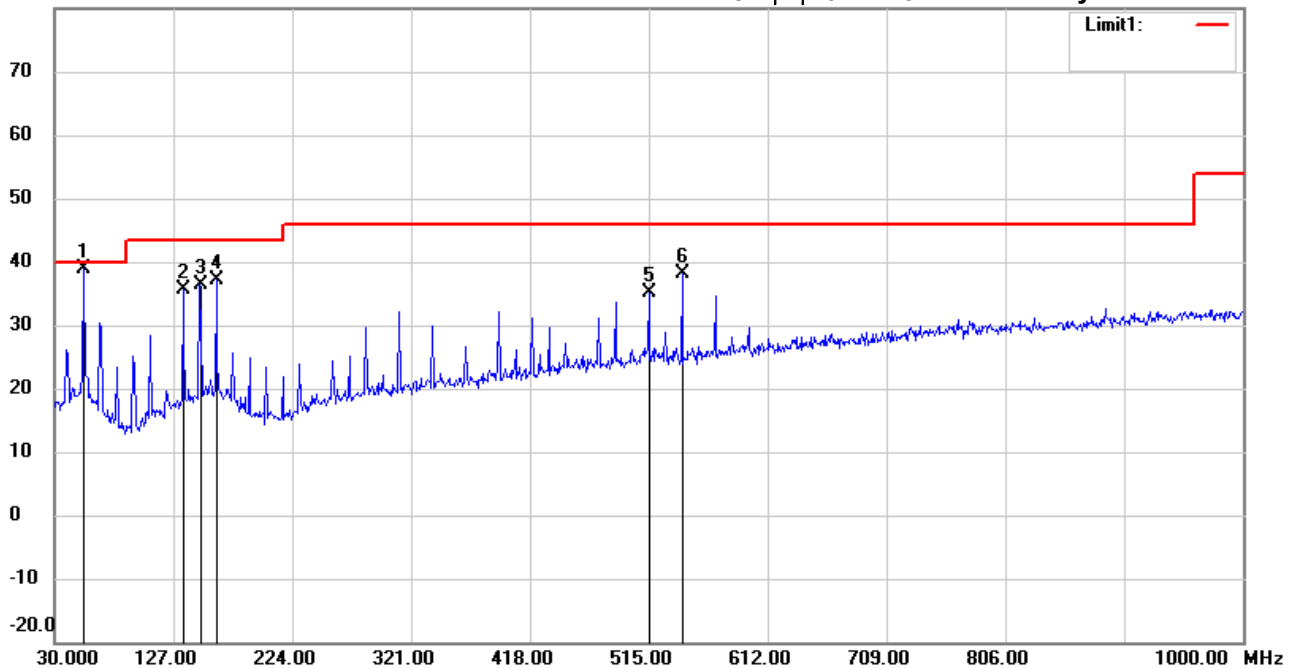
Date: 2025/1/13

Temperature:17.4 °C

80.0 dBuV/m

Time: 下午 01:11:31

Humidity:54.9 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M22412-24018

M/N:

Test Mode : TX 13.56MHz

Note :

Polarization: **Vertical**

Power : 6 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	54.2500	51.67	QP	-12.71	38.96	40.00	100	224	-1.04	
	135.2450	48.94	peak	-13.28	35.66	43.50	100	146	-7.84	
	148.8250	48.65	peak	-12.28	36.37	43.50	100	211	-7.13	
	162.4050	49.39	peak	-12.37	37.02	43.50	100	65	-6.48	
	515.4850	41.83	peak	-6.81	35.02	46.00	100	155	-10.98	
	542.6448	44.83	peak	-6.80	38.03	46.00	100	97	-7.97	

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



Radiated Emission Measurement

Operator: Kai

File :1

Data :#1

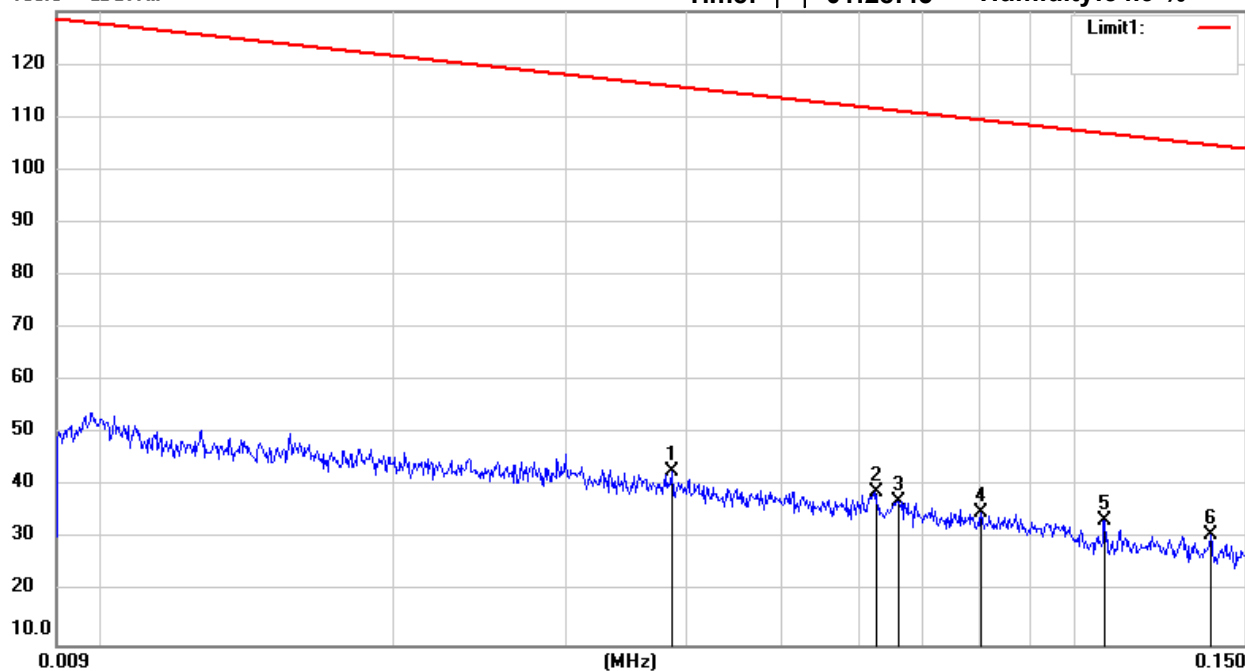
Date: 2025/1/13

Temperature:17.4 °C

130.0 dBuV/m

Time: 下午 01:28:45

Humidity:54.9 %



Site : Chamber

Condition : FCC 15.225 RE (3m)(13.56MHz)

EUT : W6M22412-24018

M/N:

Test Mode : RX 13.56MHz

Note :

Polarization:

Power : 6 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	0.0387	23.52	peak	19.24	42.76	115.84	100	23	-73.08	
*	0.0626	20.10	peak	18.82	38.92	111.67	100	155	-72.75	
	0.0662	18.43	peak	18.80	37.23	111.18	100	284	-73.95	
	0.0803	16.40	peak	18.69	35.09	109.51	100	344	-74.42	
	0.1076	15.03	peak	18.57	33.60	106.96	100	162	-73.36	
	0.1382	12.04	peak	18.69	30.73	104.79	100	222	-74.06	



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Radiated Emission Measurement

Operator: Kai

File :2

Data :#1

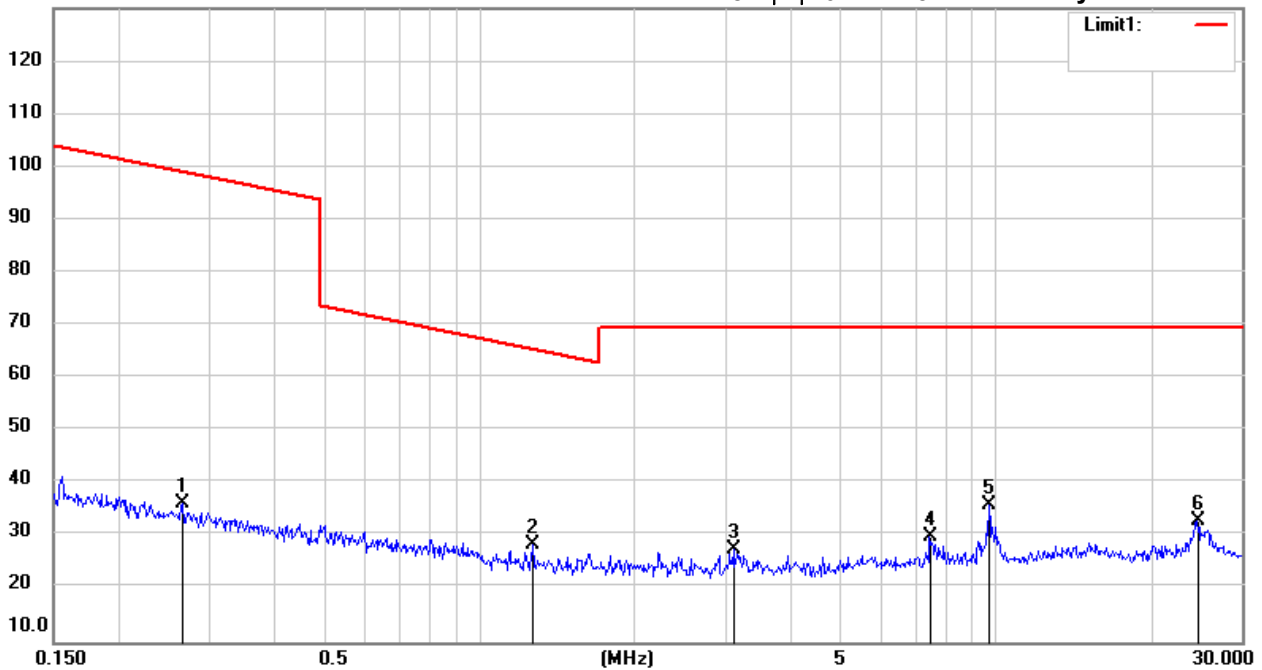
Date: 2025/1/13

Temperature:17.4 °C

130.0 dBuV/m

Time: 下午 01:27:15

Humidity:54.9 %



Site : Chamber

Condition : FCC 15.225 RE (3m)(13.56MHz)

EUT : W6M22412-24018

M/N:

Test Mode : RX 13.56MHz

Note :

Polarization:

Power : 6 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	0.2672	16.98	peak	19.19	36.17	99.04	100	213	-62.87	
	1.2688	8.86	peak	19.49	28.35	65.53	100	165	-37.18	
	3.1066	7.67	peak	19.78	27.45	69.54	100	185	-42.09	
	7.4662	9.25	peak	20.82	30.07	69.54	100	99	-39.47	
*	9.7051	14.15	peak	21.66	35.81	69.54	100	241	-33.73	
	24.5942	9.15	peak	23.71	32.86	69.54	100	2	-36.68	

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



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Radiated Emission Measurement

Operator: Kai

File :3

Data :#1

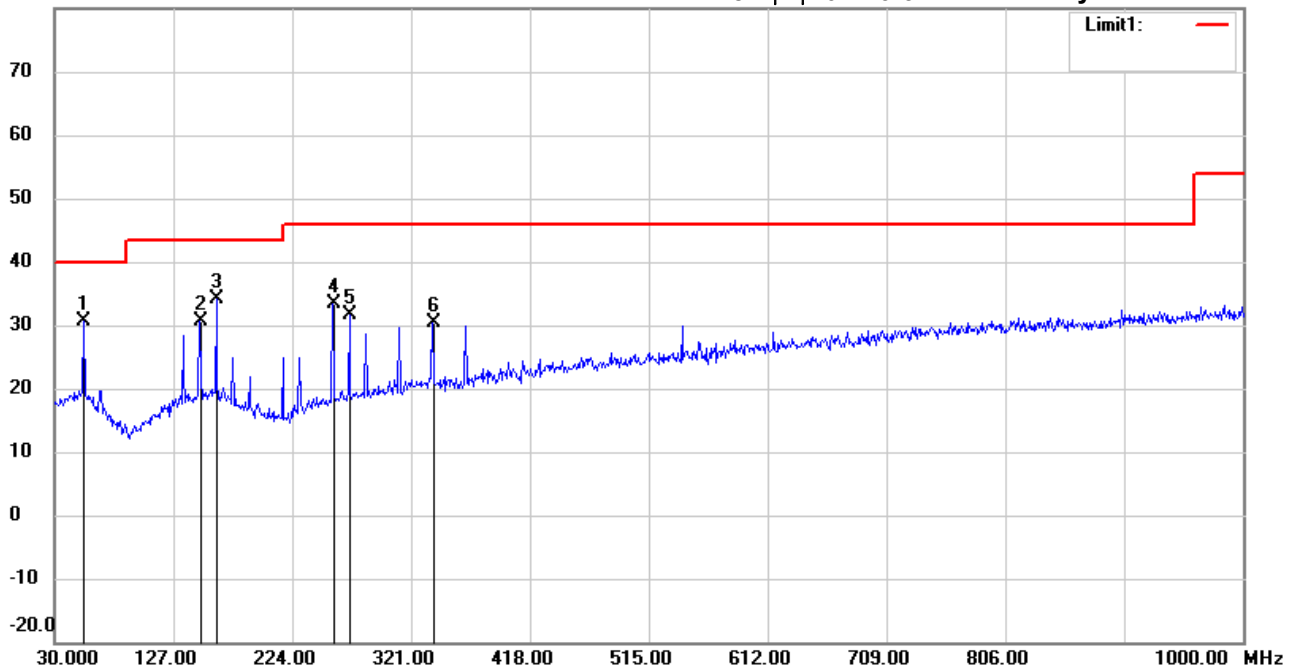
Date: 2025/1/13

Temperature:17.4 °C

80.0 dBuV/m

Time: 下午 01:16:32

Humidity:54.9 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M22412-24018

M/N:

Test Mode : RX 13.56MHz

Note :

Polarization: *Horizontal*

Power : 6 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	54.2500	43.39	peak	-12.71	30.68	40.00	100	301	-9.32	
	148.8250	42.79	peak	-12.28	30.51	43.50	100	28	-12.99	
	162.4050	46.47	peak	-12.37	34.10	43.50	100	275	-9.40	
	257.4650	46.92	peak	-13.49	33.43	46.00	100	116	-12.57	
	271.0450	44.74	peak	-12.99	31.75	46.00	100	177	-14.25	
	338.9450	41.64	peak	-11.32	30.32	46.00	100	260	-15.68	

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



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Radiated Emission Measurement

Operator: Kai

File :3

Data :#2

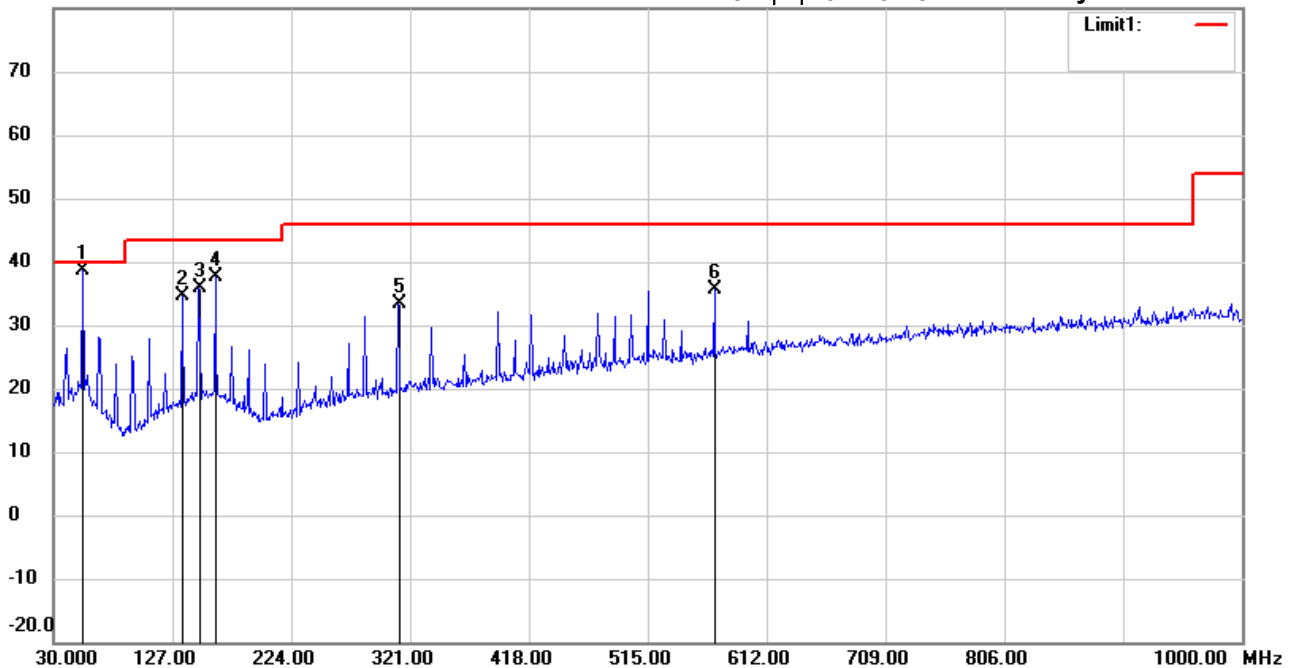
Date: 2025/1/13

Temperature:17.4 °C

80.0 dBuV/m

Time: 下午 01:15:15

Humidity:54.9 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M22412-24018

M/N:

Test Mode : RX 13.56MHz

Note :

Polarization: **Vertical**

Power : 6 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	54.2500	51.24	QP	-12.71	38.53	40.00	100	211	-1.47	
	135.2450	47.98	peak	-13.28	34.70	43.50	100	173	-8.80	
	148.8250	48.08	peak	-12.28	35.80	43.50	100	78	-7.70	
	162.4050	49.91	peak	-12.37	37.54	43.50	100	112	-5.96	
	311.7850	45.27	peak	-11.79	33.48	46.00	100	244	-12.52	
	569.8048	41.59	peak	-6.04	35.55	46.00	100	181	-10.45	

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