

FCC RF Exposure Exemption report

for

Plug-On Transmitter

Model No.: UT-M1

FCC ID: JEBUT-M1

of

Applicant: MASCOT ELECTRIC CO., LTD

**Address: No.85, Changxing 1st St., Rende Dist., Tainan City 71741,
Taiwan (R.O.C.)**

Tested and Prepared

by

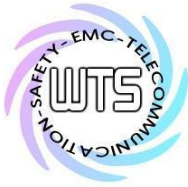
Worldwide Testing Services (Taiwan) Co., Ltd.

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

Industry Canada filed test laboratory Reg. No.: 20037, 5107A



Report No.: W6M22507-24577-EE



Registration number: W6M22507-24577-EE

FCC ID: JEBUT-M1

TABLE OF CONTENTS

1 GENERAL INFORMATION2

1.1 NOTES2

1.2 TESTING LABORATORY2

1.3 APPLICATION DETAILS3

1.4 GENERAL INFORMATION OF TEST ITEM4

1.5 TEST STANDARDS4

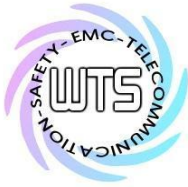
2 TEST CONFIGURATION5

2.1 TEST ENVIRONMENT5

2.2 MEASUREMENT UNCERTAINTY5

2.3 TEST EQUIPMENT LIST5

3 EXEMPTION CALCULATION 5



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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:

January 23, 2026

Rick Chen

Rick Chen.

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

January 23, 2026

Kevin Wang

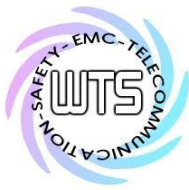
Kevin Wang

Date

WTS-Lab.

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 no.: ./.

Street: ./.

Town: ./.

Country: ./.

1.3 Application details

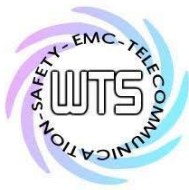
Approval holder

Name: MASCOT ELECTRIC CO., LTD

Street: No.85, Changxing 1st St., Rende Dist.,

Town: Tainan City 71741,

Country: Taiwan, R.O.C



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22507-24577-EE

FCC ID: JEBUT-M1

Manufacturer: (if applicable)

Name: ./.

Street: ./.

Town: ./.

Country: ./.

Application details

Date of receipt of test sample: August 21, 2025

Date of test: from August 22, 2025 to January 23, 2026

1.4 General information of Test item

Type of test item: Plug-On Transmitter

Model no.: UT-M1

Multi-listing model no.: ./.

Brand name: MASCOT

Power supply: Battery 3.7Vd.c., 1200mAh, 4.44Wh

Type of antenna: Monopole Antenna

Antenna gain: -4 dBi

Technical data:

Mode	Channel	Conducted Power (dBm)
510-608MHz	510.125 MHz	-10.14
	599 MHz	-18.18
	607.875 MHz	-12.05
614-616MHz	614.125 MHz	-10.33
	615.875 MHz	-10.43
	657.125 MHz	-13.51
657-663MHz	662.875 MHz	-16.85

Operation modes: Duplex

Modulation type: GFSK

Sample no.: #01

Special statement: ./.

Classification:

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

1.5 Test standards

47 CFR FCC Part 2 Subpart J, section 2.1093

FCC KDB Publication

447498 D01 General RF Exposure Guidance v06



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2 Test configuration

2.1 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Extreme conditions parameters: ./.

2.2 Measurement uncertainty

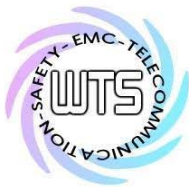
Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Output Power (transmitter))	Expanded Uncertainty : 1.49 dB

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

2.3 Test Equipment List

TX Power & Spurious Emission (966A)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2025/9/10	2026/9/9
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-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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3 Equivalent Isotropic Radiated Power (EIRP)

3.1 Exemption Limits for Routine Evaluation according to FCC KDB Publication

RESULT:

Test standard : FCC KDB Publication
447498 D01 General RF Exposure Guidance v06

3.3.1 Exemption Limits for Routine Evaluation – SAR Evaluation

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table .

Table: SAR evaluation — Exemption limits for routine evaluation based on frequency and separation distance

MHz	5	10	15	20	25	mm
510.125	21.06	43.13	64.19	85.41	107.31	SAR Test Exclusion Threshold (mW)

MHz	30	35	40	45	50	mm
510.125	128.38	150.44	171.50	192.72	214.63	SAR Test Exclusion Threshold (mW)

Band	Frequency (MHz)	Max output power (dBm)	Antenna Gain (dBi)	EIRP dBm/mW	Limit (mW)
510-608	510.125	-10.14	-4	-14.14/0.039	21.06

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power.

Established separation distance is 5 mm.