



Shenzhen HTT Technology Co., Ltd.

RF Exposure MPE	
Report Reference No.....	HTT202601335F02
FCC ID.....	2BBAO-ACM-310A
Compiled by (position+printed name+signature) .:	File administrators <i>Heber He</i>
Supervised by (position+printed name+signature) .:	Project Engineer <i>Bruce Zhu</i>
Approved by (position+printed name+signature) .:	RF Manager <i>Kevin Yang</i>
Date of issue	Jan. 28, 2026
Testing Laboratory Name	Shenzhen HTT Technology Co.,Ltd.
Address.....	1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China
Applicant's name.....	SHENZHEN GOLDBRIDGE INDUSTRIAL CO.,LTD
Address.....	Rm 1201, Block A, Zhantao Technology Building, No. 1079, Minzhi Avenue, Longhua District, Shenzhen, China
Standard	47CFR §1.1310 47CFR §2.1091 KDB447498 D01 General RF Exposure Guidance v06
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Test item description	Access Control and Card Reader
Manufacturer	SHENZHEN GOLDBRIDGE INDUSTRIAL CO.,LTD
Trade Mark	Access Control and Card Reader
Model/Type reference	ACM-310A
Rating	DC 12V
Result	PASS

TEST REPORT

Equipment under Test : Access Control and Card Reader

Model /Type : ACM-310A

Listed Models : ACM26-EM/MF1, ACM26M-EM/MF, ACM112-EM/MF, ACM08M/N,
ACM-208C, ACM208B-W, ACM223-EM/MF, ACM212A-EM/MF,
ACM325-EM/MF

Model difference : The PCB board, circuit, structure and internal of these models are the
same, Only model number is different for these model.

Applicant : **SHENZHEN GOLDBRIDGE INDUSTRIAL CO.,LTD**

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Manufacturer : **SHENZHEN GOLDBRIDGE INDUSTRIAL CO.,LTD**

Address : Rm 1201, Block A, Zhantao Technology Building, No. 1079,
Minzhi Avenue, Longhua District, Shenzhen, China

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of
the test laboratory.

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4.5	Standalone MPE Result	错误!未定义书签。
4.6	Simultaneous Transmission for MPE Result	错误!未定义书签。
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1 TEST STANDARDS

The tests were performed according to following standards:

[ANSI C95.1-1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB 447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Jan. 15, 2026
Testing commenced on	:	Jan. 15, 2026
Testing concluded on	:	Jan. 28, 2026

2.2 Product Description

Product Name:	Access Control and Card Reader
Model/Type reference:	ACM-310A
Power supply:	DC 12V
Hardware version:	V1.0
Software version:	SW1.0
Test samples ID:	HTT202601335-1(Engineer sample) HTT202601335-2(Normal sample)
Operation frequency:	125KHz
Modulation type:	ASK
Antenna type:	Loop antenna
Antenna gain:	0.0dBi

2.3 Special Accessories

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	/	/	/

2.4 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 779513 Designation Number: CN1319

Shenzhen HTT Technology Co.,Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6435.01

Shenzhen HTT Technology Co.,Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen HTT Technology Co.,Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen HTT Technology Co.,Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.12 dB	(1)
Radiated Emission	30~1000MHz	4.37 dB	(1)
Radiated Emission	1~18GHz	5.40 dB	(1)
Radiated Emission	18-40GHz	5.45 dB	(1)
Conducted Disturbance	0.15~30MHz	2.68 dB	(1)
Output Peak power	30MHz~18GHz	0.57 dB	(1)
Power spectral density	/	0.54 dB	(1)
Spectrum bandwidth	/	1.2%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.25 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.15 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.35 dB	(1)

4 Test limit

4.1 Requirement

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f ²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 30	824/f	2.19/f	(180/f ²)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

4.2 MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

4.3 MPE Result Results

125KHz: 97.59dBuV/m@ 3m

@20cm=@3m+40*log(3/0.2)= 144.634 dBuV/m

For 125KHz: 144.634dBuV/m=17.048V/m< 614 V/m.

5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

***** End of Report *****