



Report No.: 86260319053

Date: March 30, 2026

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RF TEST REPORT

Applicant : Dongguan Deruichen Electronics. Co., Ltd.

Address: Room 901, Building 5, No.106 Changdong Road, Changping Town, Dongguan City, Guangdong Province, China

Manufacturer: Dongguan Deruichen Electronics. Co., Ltd.

Address: Room 901, Building 5, No.106 Changdong Road, Changping Town, Dongguan City, Guangdong Province, China

EUT Name: Car FM transmitter

Trade mark: /

Model: Y-C02, Y-C03, Y-C05, Y-C07, Y-C09, Y-C10, Y-C11, Y-C12, Y-C13, Y-C13 pro, Y-C15, Y-C16, Y-C17, Y-C18, Y-C19

FCC ID: 2A4Z2-Y-C02

Rating: See page 3

Sample Received Date: Mar.19, 2026

Test Date: Mar. 19, 2026~Mar. 24, 2026

Applicable Standards: CFR 47, FCC Part 2.1091

Test Result Pass

Prepared by:

Evan Fang

Evan Fang/Project Engineer

Approved by:

Bruce Zhang

Bruce Zhang/Technical Manager

HD Testing Technology (GuangDong) Co., Ltd.

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Revision History

Version	Date of Issue	Description
V00	March 30, 2026	Original Version

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1. EUT DESCRIPTION

Product:	Car FM transmitter
Test Model:	Y-C02
Additional Model:	Y-C03, Y-C05, Y-C07, Y-C09, Y-C10, Y-C11, Y-C12, Y-C13, Y-C13 pro, Y-C15, Y-C16, Y-C17, Y-C18, Y-C19
Rating:	Input: DC 12-24V, 3A Type-C Cable Output: 5V $\equiv$ 3.0A, 9V $\equiv$ 3.0A, 12V $\equiv$ 2.5A, 15V $\equiv$ 2.0A , 20V $\equiv$ 2.25A (45W Max) PPS:3.3V-11.0V $\equiv$ 3.0A USB-C Output: 5V $\equiv$ 3.0A USB-A Output: 5V $\equiv$ 2.4A
FCC ID:	2A4Z2-Y-C02
Antenna Type:	Spring Antenna
Antenna Gain:	0dBi
Operation Frequency:	88.1-107.9MHz
Number of Channels:	199
Modulation Type:	FM
Hardware Version:	N/A
Software Version:	N/A
Note: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity. 3) The product model L-01 is the same PCB layout, electronic schematic and Antenna with L-02, L-03, L-04, L-05, L-06. Only the model name is difference. 4) The test results in the report only apply to the tested sample.	

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2. RF EXPOSURE EVALUATION

2.1. Requirement

According to ANSI/IEEE C95.1-1992, the criteria listed in Table as below shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	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

2.2. Calculation method

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S: Power density(mW/cm²)

P: power input to antenna (Watt)

G: is the antenna gain relative to an isotropic antenna;

R: is the distance from observation point to the antenna

Note:

1) P (Watts)=(10 ^ (dBm /10))/1000

2) G (Antenna gain in numeric) = 10^ (Antenna gain in dBi /10)

3) π=3.142

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2.3. Tune-up Result

Frequency (MHz)	Max Field strength(dBuV/m)	EIRP (dBm)	Maximum Tune up Power (dBm)
88.1	47.22	-48.04	-48±1

Note:

$E = \text{EIRP} - 20 \log D + 104.8$

E=electric field strength in dBuV/m

EIRP=equivalent isotropic radiated power in dBm

D=specified measurement distance in meters(3m)

2.4. Evaluation Result

Frequency (MHz)	Maximum Tune up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Maximum E.I.R.P. (mW)	Power density (mW/cm ²)	Power density Limit (mW/cm ²)	Result
88.1	-47	0	1	0.00001995	0.000000004	0.2	PASS

Note:Distance is 20cm.

2.5. Conclusion

According to 47 CFR 2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

End of Report

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