



Report No.: 86260417268

Date: May 11, 2026

Page 1 of 5

RF TEST REPORT

Applicant : Dongguan Alaike Electronics Co.,LTD

Address: Room 701, Building 1, No.56 Zifeng Street, Dalingshan Town, Dongguan City, Guangdong Province, China

Manufacturer: Dongguan Alaike Electronics Co.,LTD

Address: Room 701, Building 1, No.56 Zifeng Street, Dalingshan Town, Dongguan City, Guangdong Province, China

EUT Name: automobile data recorder

Trade mark: /

Model: XC406

FCC ID: 2BM2F-XC406

Rating: Powered by DC12V battery

Sample Received Date: Apr. 17, 2026

Test Date: Apr. 17, 2026~Apr. 29, 2026

Applicable Standards: CFR 47, FCC Part 2.1091

Test Result Pass

Prepared by:

Evan Fang

Approved by:

Bruce Zhang

Evan Fang/Project Engineer

Bruce Zhang/Technical Manager

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Revision History

Version	Date of Issue	Description
V00	May 11, 2026	Original Version

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1. EUT DESCRIPTION

Product:	automobile data recorder
Test Model:	XC406
Additional Model:	N/A
Rating:	Powered by DC12V battery
FCC ID:	2BM2F-XC406
Antenna Type:	PCB Antenna
Antenna Gain:	0.41dBi
Specification	2.4G WIFI,b/g/n20
Operation Frequency:	2412-2462MHz
Number of Channels:	11
Modulation Type:	DSSS,OFDM
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 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

Test mode	Maximum Conducted Output Power(dBm)	Tune-up Power(dBm)
2.4G WIFI	10.23	10±1dBm

2.4. Evaluation Result

Mode	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
2.4G WIFI	11	0.41	1.0990	11.5878	0.0078	1	PASS

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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