

RF Exposure Evaluation
For
White Knight Wheel Accessories
Sensor
Test Model: OE_SMPS18

Prepared for : White Knight Wheel Accessories
Address : 12850 Moore St., Cerritos, California 90703 United States

Prepared by : Guangzhou LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : September 02, 2026
Number of tested samples : 2
Sample No. : C260902001-1, C260902001-2
Serial number : Prototype
Date of Test : September 02, 2026 ~ September 21, 2026
Date of Report : September 22, 2026

RF Exposure Evaluation	
Report Reference No.	LCSC08246011EC
Date of Issue	September 22, 2026
Testing Laboratory Name	Guangzhou LCS Compliance Testing Laboratory Ltd.
Address	No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China
Testing Location/ Procedure	Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing method ☐
Applicant's Name	White Knight Wheel Accessories
Address	12850 Moore St., Cerritos, California 90703 United States
Test Specification	
Standard	FCC KDB publication 447498 D01 General RF Exposure Guidance v06 FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1091
TRF Originator	Guangzhou LCS Compliance Testing Laboratory Ltd.
Master TRF	Dated 2011-03
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Test Item Description	sensor
Trade Mark	N/A
Test Model	OE_SMPS18
Ratings	DC 3.0V By CR2050B Battery
Result	PASS

Compiled by:

Supervised by:

Approved by:





Lifeng Le / Administrator

Justin Zhu/ Technique Director

Gavin Liang/ Manager

RF Exposure Evaluation

Test Report No. : LCSC08246011EC	<u>September 22, 2026</u> Date of issue
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EUT.....	: sensor
Test Model.....	: OE_SMPS18
Applicant.....	: White Knight Wheel Accessories
Address.....	: 12850 Moore St., Cerritos, California 90703 United States
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Ningbo Siming Automotive Co.,Ltd
Address.....	: #360 Qiushi Road, Jishigang Town Ningbo Zhejiang, China
Telephone.....	: /
Fax.....	: /
Factory.....	: Ningbo Siming Automotive Co.,Ltd
Address.....	: #360 Qiushi Road, Jishigang Town Ningbo Zhejiang, China
Telephone.....	: /
Fax.....	: /

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.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	September 22, 2026	Initial Issue	---

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1. Product Information

EUT	:	sensor
Test Model	:	OE_SMPS18
Hardware version	:	/
Software version	:	/
Ratings	:	DC 3.0V By CR2050B Battery
433MHz Operation frequency	:	433.92MHz
Modulation Type	:	ASK, FSK
Channel Number	:	1
Antenna Type	:	Internal antenna
Antenna Gain	:	0dBi (Max)
315MHz Operation frequency	:	315MHz
Modulation Type	:	ASK, FSK
Channel Number	:	1
Antenna Type	:	Internal antenna
Antenna Gain	:	0dBi (Max)
Exposure category	:	General population/uncontrolled environment
EUT Type	:	Production Unit
Device Type	:	Mobile Device
Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.		

2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3. Limit

3.1 Refer Evaluation Method

[ANSI C95.1-2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

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

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

3.2 Limit

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/Uncontrolled 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. 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

5. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

Internal/ External Identification	Antenna type and antenna number	Operate frequency band	Maximum antenna gain
Internal	Internal antenna	433.92MHz&315MHz	433.92: 0dBi 315: 0dBi

6. Conducted Power

Test Procedure

TX frequency range: 433.92MHz(Worst result)

Device category: Mobile device (Distance: 20cm) Max. Field Strength: 67.81dBuV/m @3m

EIRP=E-104.8+20logD=67.81-104.8+20log3= -27.45dBm

Turn-up: -27±1

TX frequency range: 315MHz(Worst result)

Device category: Mobile device (Distance: 20cm) Max. Field Strength: 61.98dBuV/m @3m

EIRP=E-104.8+20logD=61.98-104.8+20log3= -33.28dBm

Turn-up: -33.0±1

7. Measurement Results

7.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r=20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

Frequency	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
433.92	-26.0	0.0025	0	1.0000	0.00000050	0.2893
315	-32.0	0.0006	0	1.0000	0.00000013	0.2100

Remark:

1. Output power including tune-up tolerance;
2. Output power was adjusted to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer.

7.2 Simultaneous Transmission MPE Evaluation

The sample support one antenna. No need consider simultaneous transmission.

8. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

9. Description of Test Facility

Site Description

EMC Lab.

:

CNAS Registration Number is L11555

A2LA Certificate Number: 5099.01

FCC Designation Number is CN1379

Test Firm Registration Number: 729882

10. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
		200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GH	±4.20dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

-----THE END OF REPORT-----