

MAY CHEONG TOY PRODUCTS FTY LTD

# TEST REPORT

**SCOPE OF WORK**

SAR ASSESSMENT-82181/19181

**REPORT NUMBER**

SZHH01538188-002

**ISSUE DATE**

11 March 2021

**[REVISED DATE]**

[-----]

**PAGES**

8

**DOCUMENT CONTROL NUMBER**

EN 62479\_b  
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## TEST REPORT

Applicant: MAY CHEONG TOY PRODUCTS FTY LTD  
UNIT 901-2, 9/F., EAST OCEAN CENTRE,  
98 GRANVILLE ROAD, TSIMSHATSUI  
EAST, KOWLOON, HONG KONG

Intertek Report No. : SZHH01538188-002

Date: 11 March 2021

### Sample Description

Product : R/C Work Machines UNIMOG U430 (19CM)  
Additional Name: R/C Work Machines MACK Granite Refuse Truck (19CM)

Model No. : 82181/19181  
Additional Models: 82180/82182/82184/82185/82186

Brand Name : N/A

Electrical Rating : Car Unit : DC 3.0V (2 x 1.5V AA batteries)

Date Received : 19 February 2021

Date Test Conducted : 19 February 2021 to 11 March 2021

Test Requested : Test for compliance with EN 62479: 2010

Test Method : EN 62479: 2010

Test Result : See the attached sheets

Conclusion : The submitted samples Complied with the above safety standard. But the note should be noted.

\*\*\*\*\* End of Page \*\*\*\*\*

**Prepared and Checked By:**

**Approved By:**

Sign On File  
Terry Tang  
Assistant Supervisor

\_\_\_\_\_  
Jimmy Wen  
Assistant Manager  
Date: 11 March 2021

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Intertek Testing Services Shenzhen Ltd.  
深圳天祥质量技术服务有限公司

West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg. 3,  
Yuanzheng Science and Technology Industrial Park, No.4012,  
Wuhe Ave. North, Bantian Street, Longgang District, Shenzhen  
深圳市龙岗区坂田街道五和大道北4012号元征科技工业园  
1号楼3、4、5层及1楼西侧半层和3号楼整栋1-5层

Tel: +86755 2602 0111  
Fax: +86755 2683  
7118\119  
[www.intertek.com.cn](http://www.intertek.com.cn)  
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## TEST REPORT

Test Results:

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EN 62479: 2010

<u>Clause</u>	<u>Title/Description</u>	<u>Result</u>
1	Scope	
2	Normative references	--
3	Terms and definitions	--
4	Compliance criteria	Complied (See Note )
5	Assessment report	--

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## TEST REPORT

Product Description:

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Product Description:

The equipment under test (EUT) is a R/C Work Machines UNIMOG U430 (19CM) operating at 2.4G Band. The Car Unit is powered by DC 3.0V (2 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

The Models: 82180/82182/82184/82185/82186 are the same as the Model: 82181/19181 in hardware and electrical aspect. The difference in appearance and model number serves as marketing strategy.

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Note:

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- (1) When determining the test conclusion, the Measurement Uncertainty of test has been considered: Measurement uncertainty is  $\pm 4.8$  dB at a level of confidence of 95%.
- (2) The test performed is that required to demonstrate compliance with the technical specifications and the essential requirements of Article 3.1(a) health of the Radio Equipment Directive (2014/53/EU) - RED for regulatory purposes.
- (3) Conformity assessment method refers to clause 4.2 of EN 62479: 2010, and compares with the Low-power exclusion level stated in Annex A of EN 62479: 2010. When SAR is the basic restriction, a conservative minimum value for Pmax can be derived, equal to the localized SAR limit (SAR<sub>max</sub>) multiplied by the averaging mass (m):

$$P_{max} = SAR_{max} m \quad (A.1)$$

Example values of Pmax according to Equation (A.1) are provided in Table A.1 for cases described by the ICNIRP guidelines [1], IEEE Std C95.1-1999 [2] and IEEE Std C95.1-2005 [3] where SAR limits are defined. Other exposure guidelines or standards may be applicable depending on national regulations.

Example values of SAR-based Pmax for some cases described by ICNIRP, IEEE Std C95.1-1999 and IEEE Std C95.1-2005

Guideline / Standard	SAR limit, SAR <sub>max</sub> W/kg	Averaging mass, m g	P <sub>max</sub> mW	Exposure tier (a)	Region of body (a)
ICNIRP [1]	2	10	20	General public	Head and trunk
	4	10	40	General public	Limbs
	10	10	100	Occupational	Head and trunk
	20	10	200	Occupational	Limbs
IEEE Std C95.1-1999 [2]	1,6	1	1,6	Uncontrolled environment	Head, trunk, arms, legs
	4	10	40	Uncontrolled environment	Hands, wrists, feet and ankles
	8	1	8	Controlled environment	Head, trunk, arms, legs
	20	10	200	Controlled environment	Hands, wrists, feet and ankles
IEEE Std C95.1-2005 [3]	2	10	20	Action level	Body except extremities and pinnae
	4	10	40	Action level	Extremities and pinnae
	10	10	100	Controlled environment	Body except extremities and pinnae
	20	10	200	Controlled environment	Extremities and pinnae
(a) Consult the appropriate standard for more information and definitions of terms.					

EN62479: 2010 Compliance of the RF Transmitter (a R/C Work Machines UNIMOG U430 (19CM) used in General public) bases on test against standard ETSI EN 300 440 V2.1.1 (2017-03) (Report No.: SZHH01538188-001), and the measured maximum E.I.R.P. = -2.5dBm = 0.562mW for Car Unit in 2.4GHz band, it is less than the RF Exposure limit 20mW.

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APPENDIX:

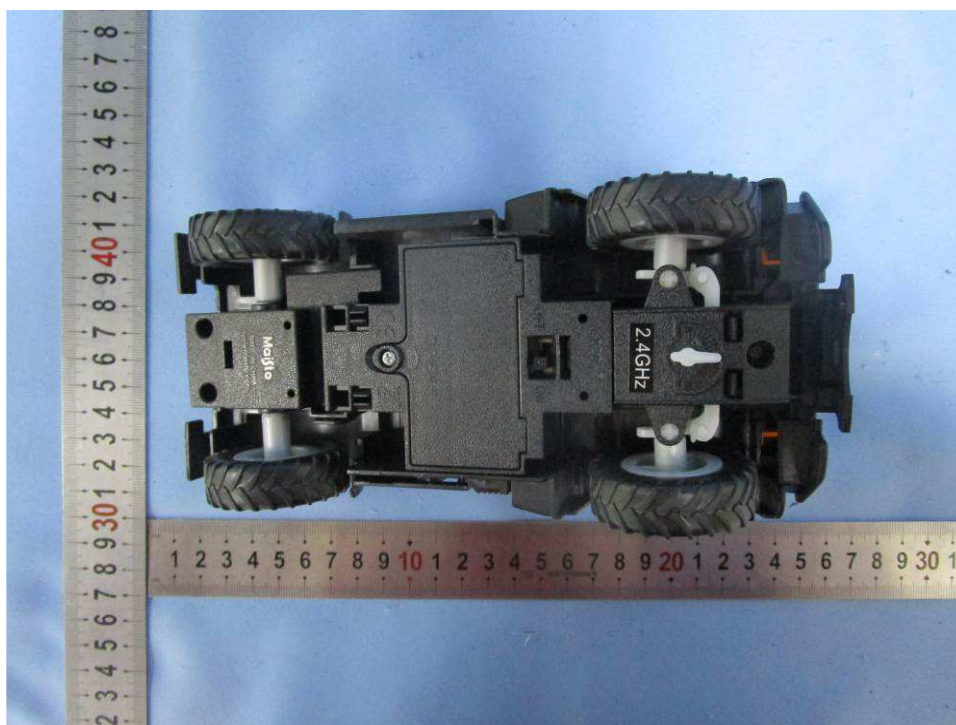
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**EUT Photo:**

External Photo



External Photo



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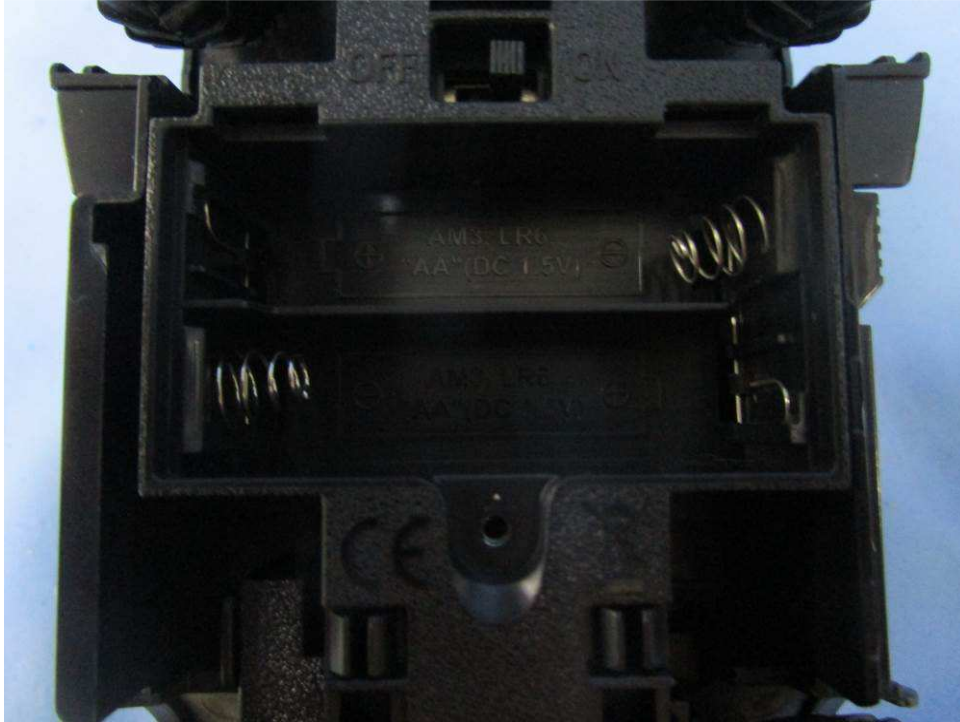
**TEST REPORT**

APPENDIX:

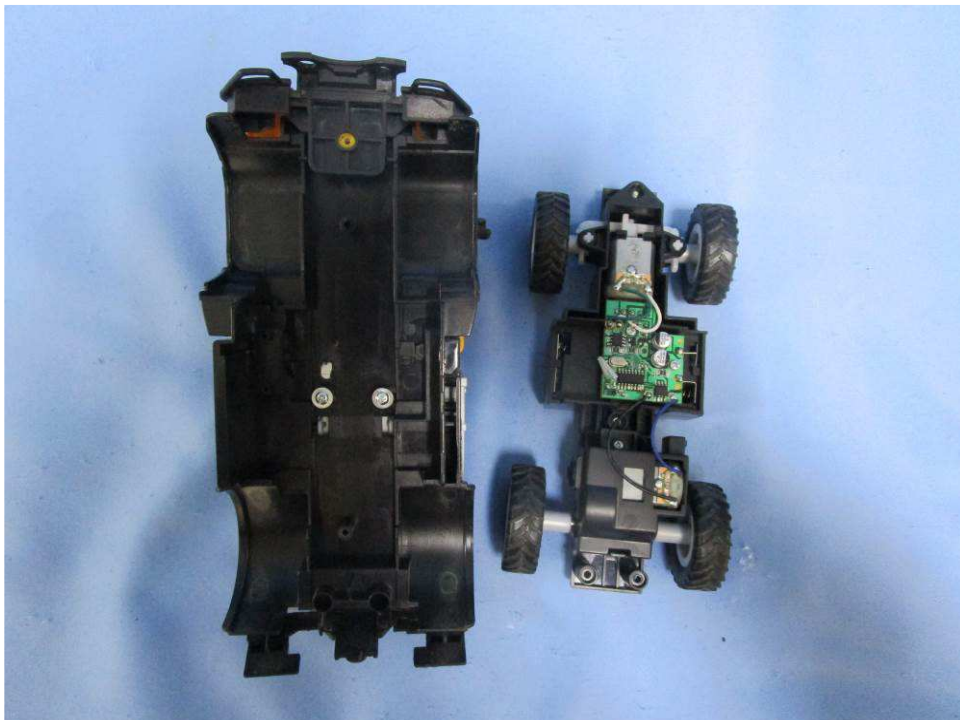
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**EUT Photo:**

Internal Photo



Internal Photo



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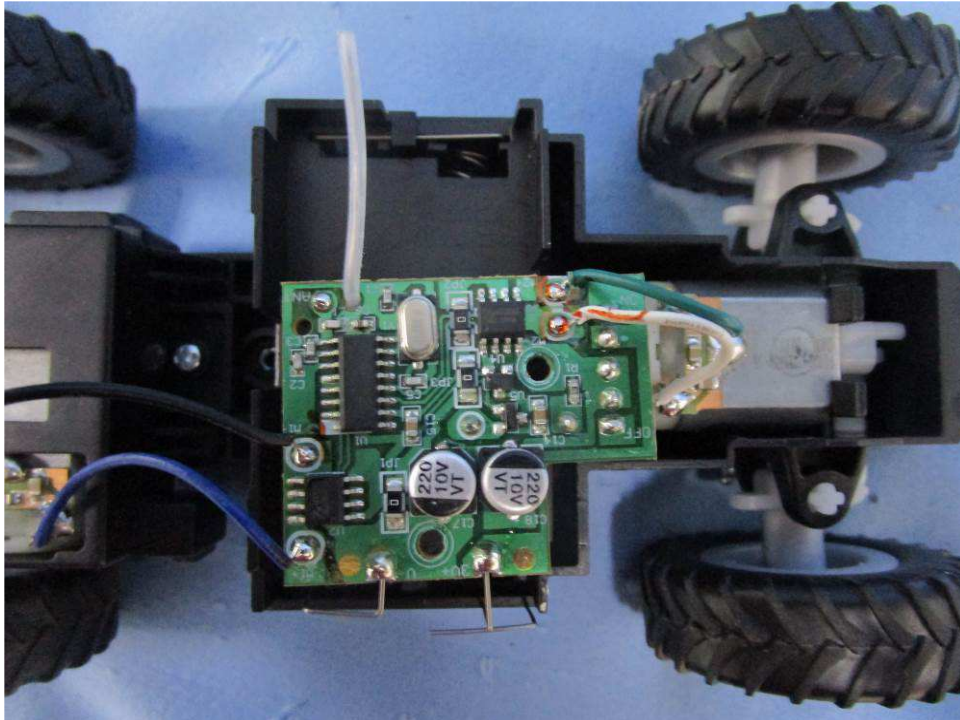
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**EUT Photo:**

Internal Photo



Internal Photo



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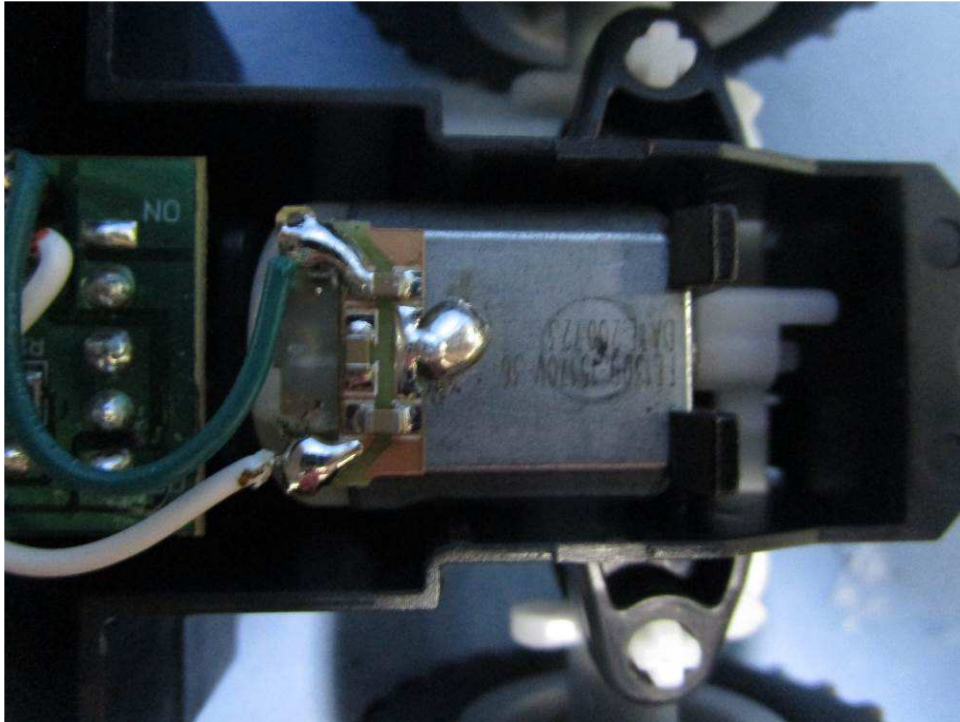
**TEST REPORT**

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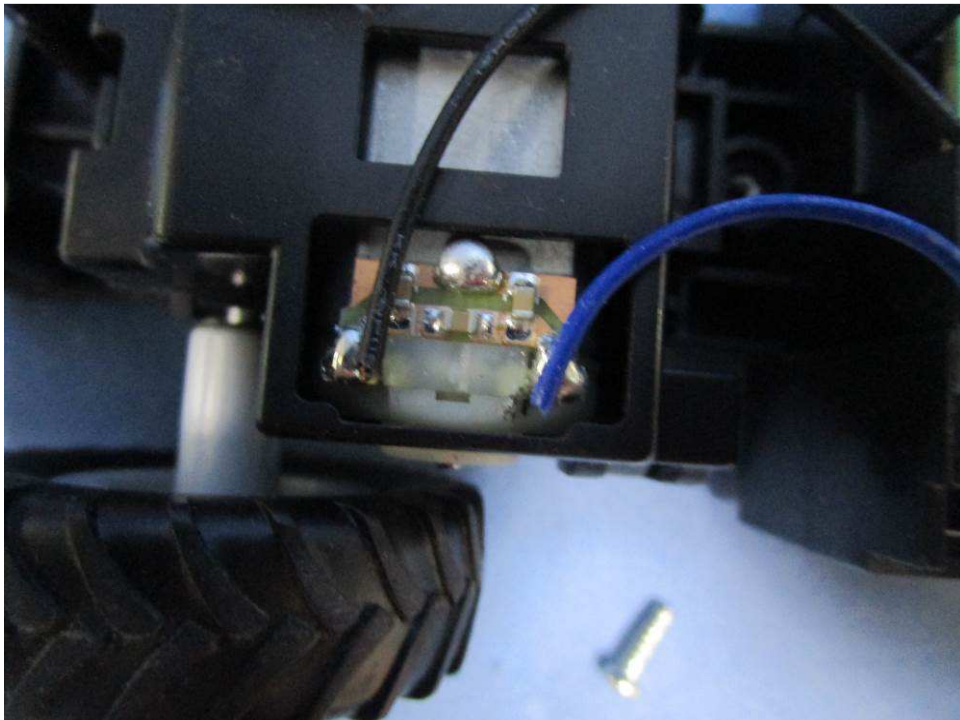
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**EUT Photo:**

Internal Photo



Internal Photo



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