

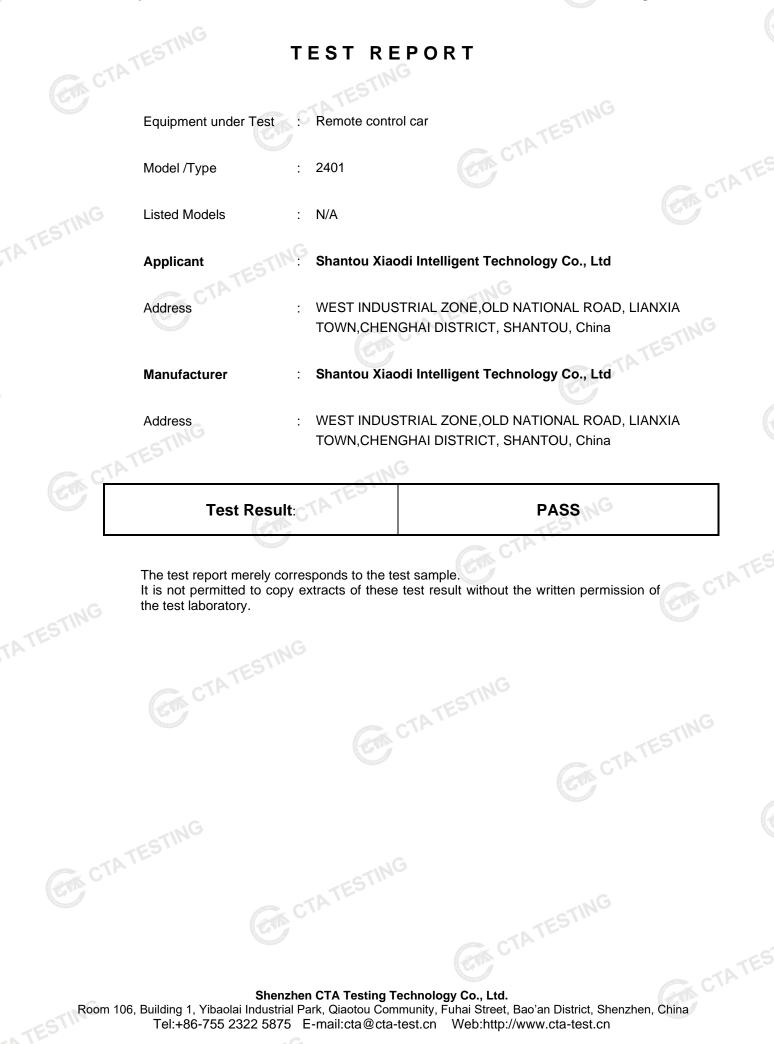
### Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

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This publication may be reproduced in who CTA Testing Technology Co., Ltd. is ackno CTA Testing Technology Co., Ltd. takes no from the reader's interpretation of the repro	B447498 D01 General RF Exposure Guidance v06
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	mote control car
Manufacturer Sh	antou Xiaodi Intelligent Technology Co., Ltd
Trade Mark N//	A
Model/Type reference 24	01
Listed Models N//	Λ
Ratings DC	<b>1</b>
Result: PA	A 3.0V From battery SS

Shenzhen CTA Testing Technology Co., Ltd.

CON CTATES Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn



### Report No.:CTA25041200402

# Contents

	1	TEST STANDARDS	4
	2	SUMMARY	
	C/r	2.1 General Remarks	
		2.2 Product Description	5
		2.3 Special Accessories	5
		2.4 Modifications	5
	3	TEST ENVIRONMENT	6
		3.1 Address of the test laboratory	
		3.2 Test Facility	6
		3.3 Statement of the measurement uncertainty	6 🦳 G
	4	Test limit	
CTATESTING		4.1 Requirement	7
TESI		4.2 Conducted Power Results	7
TAT		4.3 Manufacturing tolerance	
, U ··		4.4 Evaluation Result	
1		4.5 Simultaneous Transmission for SAR Exclusion	
	5	Conclusion	8
		Conclusion	TESTING

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CTATESTING

#### 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 2.1093: Radiofrequency radiation exposure evaluation: portable devices

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#### 2 <u>SUMMARY</u>

#### 2.1 **General Remarks**

Date of receipt of test sample	1	Apr. 12, 2025		
	G			
Testing commenced on	:	Apr. 12, 2025		
			C/r	
Testing concluded on	:	Apr. 15, 2025	CT	

### 2.2 Product Description

2 Product Descript Product Name:	tion Remote control car
	Remote control car
Nodel/Type reference:	2401
Power Rating	DC 3.0V From battery
lardware version:	V1.0
Software version:	V1.0
esting sample ID:	CTA250412004-1# (Engineer sample) CTA250412004-2# (Normal sample)
2.4G	
Operation frequency	2402-2480MHz
Adulation G	GFSK
Antenna Type	Internal antenna
Antenna Gain	0.98 dBi

#### 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			
.0	/	/	/	/	/	/	E		
CTATESTIN	2.4 Modifications								
	No modificat	ions were imple	mented to meet t	esting criteria.					

#### 2.4 **Modifications**

CTA TESTING No modifications were implemented to meet testing criteria.

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# 3 TEST ENVIRONMENT

### 3.1 Address of the test laboratory

### Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

### 3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: **FCC-Registration No.: 517856 Designation Number: CN1318** 

Shenzhen CTA Testing 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.: 6534.01

Shenzhen CTA Testing 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 CTA Testing 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 CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes	
Radiated Emission	9KHz~30MHz	3.02 dB	(1)	
Radiated Emission	30~1000MHz	4.06 dB	(1)	
Radiated Emission	1~18GHz	5.14 dB	(1)	
Radiated Emission	18-40GHz	5.38 dB	(1)	ING
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)	STIN
Output Peak power	30MHz~18GHz	0.55 dB	(1)	LE.
Power spectral density	/	0.57 dB	(1)	
Spectrum bandwidth	/	1.1%	(1)	
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)	
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)	
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)	
Gen CTA	TEC	CTATEST	NG	

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#### 4.1 Requirement

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.23 " [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f}$  (GHz)]  $\leq$  3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$ mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

### **Conducted Power Results**

2402MHz88.69-6.57-6.0 $\pm 1$ -5.0Note: E = EIRP - 20log D + 104.8 where: E = electric field strength in dBµV/m, EIRP = equivalent isotropic radiated power in dBm D = specified measurement distance in meters6.0 $\pm 1$ -5.0	Freq. (MHz)	Field strength(max)(dBuV/m)	EIRP (max) (dBm)	Turn-up Power (dB)	Max tune ( power (dBm) [P]
$E = EIRP - 20log D + 104.8$ where: $E = electric field strength in dB\mu V/m,$ EIRP = equivalent isotropic radiated power in dBm	2402MHz	88.69	-6.57	-6.0±1	-5.0
EIRP=E-104.8+20logD, D=3	E = EIRP - 20log D + 10 where: E = electric field strength EIRP = equivalent isotro D = specified measurement	in dBμV/m, pic radiated power in dBm nt distance in meters.		G	CTATE

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#### 4.3 Manufacturing tolerance

G	Freq. (MHz)	Field strength(max)(dBuV/m)	EIRP (max) (dBm)	Turn-up Power (dB)	
	2402MHz	88.69	-6.57	-5.0	
	4.4 Evaluation Re	esult			CTATE

## 4.4 Evaluation Result

**Evaluation Results** 

#### 4.5 Simultaneous Transmission for SAR Exclusion

#### Conclusion 5

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D01v06

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