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# RF Exposure Evaluation Report

**Product** Yarbo Controller Receiver

Trade mark Yarbo Model/Type reference CR1 N/A **Serial Number** 

EED32O81789302 **Report Number** 

FCC ID 2A9JF-HY0993-YARBO

Dec. 09, 2022 Date of Issue

47 CFR Part 1.1307 **Test Standards** 

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

**PASS** Test result

Prepared for:

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Prepared by:

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## 2 Version

	Version No.	Date	Description	(3)
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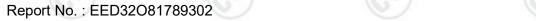
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### 4 General Information

#### 4.1 Client Information

Applicant:	Shenzhen Hanyang Technology Co., Ltd.				
Address of Applicant:	Room 12KLM, Building 6B, Baoneng Science and Technology Park, Qinghu Community, Longhua Street, Longhua District, Shenzhen				
Manufacturer:	Shenzhen Hanyang Technology Co., Ltd.				
Address of Manufacturer:	Room 12KLM, Building 6B, Baoneng Science and Technology Park, Qinghu Community, Longhua Street, Longhua District, Shenzhen				
Factory:	Shenyang Robotics (Huizhou) Co., Ltd.				
Address of Factory:	7th Floor, Building 2, Huizhou Shenghong Electric Industrial Park, No. 31, Huifeng West 2nd Road, Huihuan Street, Zhongkai High-tech District, Huizhou City, Guangdong Province				

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## 4.2 General Description of EUT

Product Name:	Yarbo Controller Receiver
Model No.:	CR1
Trade mark:	Yarbo

## 4.3 Product Specification subjective to this standard

2402MHz to 2480MHz	
GFSK	(3)
Default	(0,1)
PCB Antenna	
0dBi	
DC 5V	
2.13dBm	
The Max Conducted Peak Output Power data refer to the report EED32O81789301	
Nov. 11, 2022	
Nov. 11, 2022 to Nov. 28, 2022	-05
	GFSK Default PCB Antenna 0dBi DC 5V 2.13dBm The Max Conducted Peak Output Power data refer to the report EED32081789301 Nov. 11, 2022

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.









#### 4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

#### 4.5 Deviation from Standards

None.

#### 4.6 Abnormalities from Standard Conditions

### 4.7 Other Information Requested by the Customer

None.









#### 5 SAR Evaluation

#### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 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 Exclusion Threshold condition, listed below, is satisfied.

#### **5.1.2 Limits**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

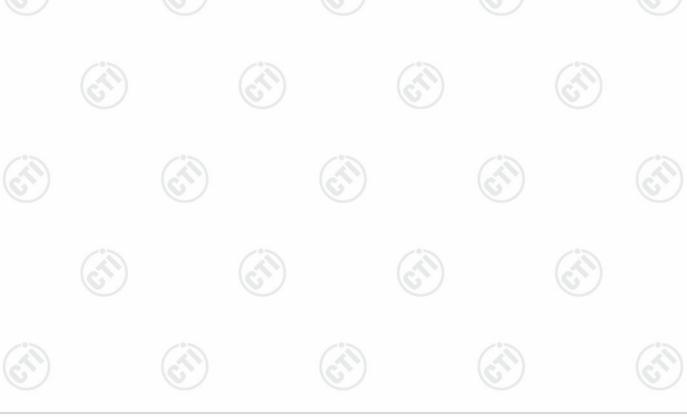
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

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  $\leq$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion







#### 5.1.3 EUT RF Exposure

1) For 2.4G

**Measurement Data:** 

GFSK mode					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
(C.)	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	1	1±0.5	1.5	1.413	
Middle(2441MHz)	1.35	1±0.5	1.5	1.413	
Highest(2480MHz)	2.13	2±0.5	2.5	1.778	

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated	Exclusion
			(dBm)	(mW)	value	threshold
Lowest (2402MHz)		1±0.5	1.5	1.413	0.445	(cr)
Middle (2441MHz)	1.35	1±0.5	1.5	1.413	0.445	3.0
Highest (2480MHz)	2.13	2±0.5	2.5	1.778	0.560	

#### Remark:

The Max Conducted Peak Output Power data refer to report Report No.: EED32O81789301.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

\*\*\* End of Report \*\*\*