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RF Exposure Evaluation Report

Unimouse Wireless **Product**

CONTOUR Trade mark

Model/Type reference See content 4.2

Serial Number N/A

Report Number EED32P81306503 **FCC ID** 2AG6O-UMWL Dec. 22, 2023 Date of Issue

47 CFR Part 1.1307 **Test Standards**

47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093

447498 D04 Interim General RF Exposure

Guidance v01

Test result PASS

Prepared for:

CONTOUR (GUANGZHOU) DESIGN, INC. Building B21-2F, Huachuang Animation Park, Panyu, GuangZhou, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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4.1 Client Information

Applicant:	CONTOUR (GUANGZHOU) DESIGN, INC.
Address of Applicant:	Building B21-2F, Huachuang Animation Park, Panyu, GuangZhou, China
Manufacturer:	CONTOUR (GUANGZHOU) DESIGN, INC.
Address of Manufacturer:	Building B21-2F, Huachuang Animation Park, Panyu, GuangZhou, China
Factory:	CONTOUR (GUANGZHOU) DESIGN, INC.
Address of Factory:	Building B21-2F, Huachuang Animation Park, Panyu, GuangZhou, China

4.2 General Description of EUT

Product Name:	Unimouse Wireless				
Model No.(EUT):	CDUMBK11001, UNIMOUSE-WL, UNIMOUSE-WL-L, JW-2000/00,				
	UNIMOUSE-WL-X, UNIMOUSE-WL-PLUS, UNIMOUSE-WL-S,				
	UNIMOUSE-WVL-X-L, UNIMOUSE-WL-PLUS-L, UNIMOUSE-WL-S-L,				
	2050, 2051, CDUMBK11002.				
Test Model No:	CDUMBK11001				
Trade mark:	CONTOUR				

Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	-07		-05
Modulation Type:	GFSK			
Test Power Grade:	Default			(0)
Test Software of EUT:	N/A			
Antenna Type:	PCB Antenna			
Antenna Gain:	5.66dBi		(3)	
Power Supply:	Battery DC 3.7V	9	(6,2)	
Sample Received Date:	Aug. 18, 2023			
Sample tested Date:	Aug. 18, 2023 to Aug. 29, 2023			

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.

Model No.: CDUMBK11001, UNIMOUSE-WL, UNIMOUSE-WL-L, JW-2000/00, UNIMOUSE-WL-X,

UNIMOUSE-WL-PLUS, UNIMOUSE-WL-S, UNIMOUSE-WVL-X-L, UNIMOUSE-WL-PLUS-L,

UNIMOUSE-WL-S-L, 2050, 2051, CDUMBK11002.

Only the model CDUMBK11001 was tested. Their electrical circuit design, layout, components used and internal wiring are identical. Only the appearance and model name are different.















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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.

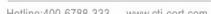
4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer









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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\text{cm}}\sqrt{f}}\right)$$

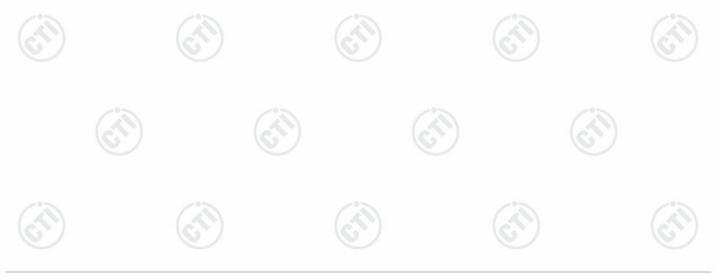
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.





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5.1.3 EUT RF Exposure Evaluation

For Stand alone:

For BLE

Frequency	Congration	Max.	Antenna	EIRP	ERP	ERP	Limit	Result
(MHz)	Separation	Conducted	Gain (dBi)	(dBm)	(dBm)	(mW)	(mW)	
	distance	Output power						
	(cm)	(dBm)		700			-02	
2402	0.50	-2.64	5.66	3.02	0.87	1.222	2.788	PASS

For 2.4G

Frequency (MHz)	Separation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2402	0.50	-2.64	5.66	3.02	0.87	1.222	2.788	PASS

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15
- ③Only the worst case data was recorded in the report.

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 ***