

	TEST REPOR	T							
FCC ID:	2AIEA-CE01								
Test Report No:	TCT220726E027	(3)							
Date of issue::	Aug. 08, 2022								
Testing laboratory:	SHENZHEN TONGCE TESTING	G LAB							
Testing location/ address:	TCT Testing Industrial Park Fuq Street, Bao'an District Shenzher Republic of China	iao 5th Industrial Zone, Fuhai n, Guangdong, 518103, People's							
Applicant's name::	Applicant's name: Shenzhen EEGSmart Technology CO., Ltd								
Address::	1401, Building 7A, Guoji Chuan Yuncheng, Xili, Nanshan district								
Manufacturer's name:	Shenzhen EEGSmart Technolog	gy CO., Ltd							
Address:	1401, Building 7A, Guoji Chuangxin Gu, 3rd Phase Wanke Yuncheng, Xili, Nanshan district, Shenzhen, China								
Standard(s):		FCC CFR Title 47 Part 1.1307 KDB 447498 D04 Interim General RF Exposure Guidance v01							
Test item description:	Micro EEG Sleep Monitor								
Trade Mark:	UMindSleep								
Model/Type reference:	CE01								
Rating(s):	Rechargeable Li-ion Battery DC	3.7V							
Date of receipt of test item:	Jul. 26, 2022								
Date (s) of performance of test:	Jul. 26, 2022 - Aug. 08, 2022								
Tested by (+signature):	Brews XU	forens the							
Check by (+signature):	Beryl ZHAO	Bod CALL TOT							
Approved by (+signature):	Tomsin	fomsmis st							

General disclaimer:

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1. General Product Information

1.1. EUT description

Test item description:	Micro EEG Sleep Monitor	(c)		(61)
Model/Type reference:	CE01			
Sample Number:	TCT220726E026-0101			
Operation Frequency:	2402MHz~2480MHz		(60)	
Modulation Type:	GFSK			
Antenna Type:	PCB Antenna	(c)		(C)
Antenna Gain:	3dBi			
Rating(s):	Rechargeable Li-ion Battery DC	3.7V		

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

this parameter. 1.2. Model(s) list None.





2. General Information

2.1. Test environment and mode

ltem	Normal condition					
Temperature	+25°C					
Voltage	DC 3.7V					
Humidity	56%					
Atmospheric Pressure:	1008 mbar					
Test Mode:						
Engineering mode:	Keep the EUT in continuous transmitting by select channel					

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1		1	1	1





TESTING CENTRE TECHNOLOGY Report No.: TCT220726E027

3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been recognized by Innovation, Science and Economic Development Canada for radio equipment testing.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339





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4. Test Results and Measurement Data

According to KDB 447498 D04 Interim General RF Exposure Guidance:

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 P_{th} (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). P_{th} is given by Formula (B.2).

 $P_{th} (mW) = ERP_{20 cm} (d/20 cm)^{x}$ $d \le 20 cm$

or $P_{th} (mW) = ERP_{20 cm}$

(B.2)

where

 $x = -log_{10}(60/ERP_{20 cm} \sqrt{f})$

and f is in GHz, d is the separation distance (cm), and ERP_{20 cm} is per Formula (B.1).

20 cm< d≤40 cm

The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
(Z)	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
enc	1900	3	12	26	44	66	92	122	157	195	236
Frequency	2450	3	10	_ 22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

Maximum Conducted Output Power and Max. ERP of product is as follow



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For BLE:

Modulation	Operate Frequency (MHz)	Maximum Conducted Output Power (dBm)	Antenna gain (dBi)	Max. ERP (dBm)		Max. Tune up Power (dBm)	Danie	Limit (mW)
GFSK	2402	1.5	3	4.5	3.5±1	4.5	2.82	3

Result:

Because the max tune up power is less than the exemption limit, so No SAR measurement is required.

