


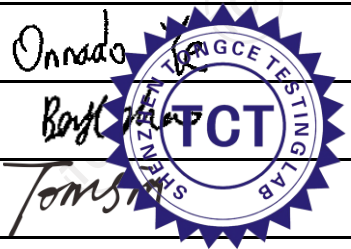


TEST REPORT

FCC ID :	2AAWE-S072	
Test Report No :	TCT220812E017	
Date of issue :	Aug. 18, 2022	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name :	Soul Electronics Limited	
Address :	Suite 2108, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong, China	
Manufacturer's name ... :	Soul Electronics Limited	
Address :	Suite 2108, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong, China	
Standard(s)	FCC CFR Title 47 Part 1.1307 KDB 447498 D04 Interim General RF Exposure Guidance v01	
Product Name :	OPENEAR 2 - Air Conduction Headphones for Sport	
Trade Mark	SOUL	
Model/Type reference :	OPENEAR 2, SO72	
Rating(s) :	Rechargeable Li-ion Battery DC 3.7V	
Date of receipt of test item	Aug. 12, 2022	
Date (s) of performance of test :	Aug. 12, 2022 - Aug. 18, 2022	
Tested by (+signature) ... :	Onnado YE	
Check by (+signature) :	Beryl ZHAO	
Approved by (+signature) :	Tomsin	



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Table of Contents

1. General Product Information	3
1.1. EUT description	3
1.2. Model(s) list.....	3
2. General Information.....	4
2.1. Test environment and mode.....	4
2.2. Description of Support Units.....	4
3. Facilities and Accreditations	5
3.1. Facilities	5
3.2. Location	5
4. Test Results and Measurement Data	6

1. General Product Information

1.1. EUT description

Product Name.....:	OPENEAR 2 - Air Conduction Headphones for Sport
Model/Type reference.....:	OPENEAR 2
Sample Number.....:	TCT220812E016-0101
Operation Frequency.....:	2402MHz~2480MHz
Modulation Type.....:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	1dBi
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.

1.2. Model(s) list

No.	Model No.	Tested with
1	OPENEAR 2	<input checked="" type="checkbox"/>
Other models	SO72	<input type="checkbox"/>

Note: OPENEAR 2 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of OPENEAR 2 can represent the remaining models.

2. General Information

2.1. Test environment and mode

Item	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
/	/	/	/	/

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

4. Test Results and Measurement Data

According to KDB 447498 D04 v01 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).

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

or (B.2)

$$P_{th} (mW) = ERP_{20\text{ cm}} \quad 20\text{ cm} < d \leq 40\text{ cm}$$

where

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

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

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

Table B.2—Example Power Thresholds (mW)

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

For the separation distance $\leq 5\text{mm}$

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

For BDR+EDR:

Modulation	Operate Frequency (MHz)	Maximum Conducted Output Power (dBm)	Antenna gain (dBi)	Max. EIRP (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Limit (mW)
GFSK	2441	1.91	1	2.91	2.0±1	3.0	2.00	3
π/4-DQPSK	2402	2.70	1	3.70	3.0±1	4.0	2.51	3
8DPSK	2402	3.60	1	4.60	3.7±1	4.7	2.95	3

Result:

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

*******END OF REPORT*******