TCT 通测检测 TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	2APU8CQL1899-TWS
Test Report No..... :	TCT220915E024
Date of issue..... :	Sep. 16, 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..... :	Conquer Industry Co., Ltd
Address..... :	ROOM 1502-109, EASEY COMMERCIAL BUILDING, 253-261 HENNESSY ROAD, WANCHAI, HONGKONG
Manufacturer's name ... :	Conquer Industry Co., Ltd
Address..... :	ROOM 1502-109, EASEY COMMERCIAL BUILDING, 253-261 HENNESSY ROAD, WANCHAI, HONGKONG
Standard(s) ..... :	FCC CFR Title 47 Part 2.1093
Product Name..... :	BLUETOOTH SPEAKER
Trade Mark ..... :	Sure, ART+SOUND, SURE, POLAROID, TRAXX, SHARPER IMAGE, LIMITED TWO, DARTY, SLICK, ROOM 2 ROOM, BRILLIANT IDEAS, MAHLI
Model/Type reference..... :	CQL1899-TWS, AR1020
Rating(s)..... :	DC 5V from Adapter
Date of receipt of test item ..... :	Sep. 15, 2022
Date (s) of performance of test..... :	Jul. 27, 2022 ~ Sep. 16, 2022
Tested by (+signature) ... :	Rleo LIU
Check by (+signature).... :	Beryl ZHAO
Approved by (+signature):	Tomsin

General disclaimer:

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

1. General Product Information

1.1. EUT description

Test item description .....:	BLUETOOTH SPEAKER
Model/Type reference.....:	CQL1899-TWS
Sample Number.....:	TCT220915E023-0101
Operation Frequency.....:	2402MHz~2480MHz
Modulation Type.....:	GFSK, π/4-DQPSK, 8DPSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	-0.58 dBi
Rating(s).....:	DC 5V from Adapter

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	CQL1899-TWS	☒
Other models	AR1020	☐

Note: CQL1899-TWS 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 CQL1899-TWS can represent the remaining models.

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2. Facilities and Accreditations

2.1. 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 registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

2.2. 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

3. Test Results and Measurement Data

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b), Limits for Maximum Permissible Exposure (MPE),

Frequency range (MHz)	Electric field strength(V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*($900/f^2$)	6
30–300	61.4	0.163	1.0	6
300–1500	-	-	f/300	6
1500–100,000	-	-	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*($180/f^2$)	30
30–300	27.5	0.073	0.2	30
300–1500	-	-	f/1500	30
1500–100,000	-	-	1.0	30

Note: f = frequency in MHz

EVALUATION METHOD

Transmission formula: **Pd = (Pout*G)/(4*pi*r^2)**

Where

Pd = power density in mW/cm^2, **Pout** = output power to antenna in mW, **G** = gain of antenna in linear scale;

Pi = 3.1416, **R** = distance between observation point and center of the radiator in cm

Assessment Result

☒ **Passed** ☐ **Not Applicable**

Frequency range (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm2)	Limit (mW/cm2)	Result
2402-2480	BT-EDR	-3.47	-3.00	0.0001	1.0000	Pass

Note: The exposure evaluation safety distance is 20cm.

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