

Street, Bao'an District, Shenzhen, China

RF Exposure evaluation

Report Reference No. .....: CTA25041101402 FCC ID. .....: 2BGA5-DS-310

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Date of issue .....: Apr. 17, 2025

Testing Laboratory Name ......: Shenzhen CTA Testing Technology Co., Ltd.

Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name ...... Foshan Dashi Technology Co., Ltd.

No.21-2, Deng's Family, Shuikou, Liuchao Community, Lishui Town,

Nanhai District, Foshan City, China

47CFR §1.1310

Standard .....: 47CFR §2.1093

KDB447498 D01 General RF Exposure Guidance v06

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Test item description.....: Eye Massager

Manufacturer.....: Foshan Dashi Technology Co., Ltd.

Trade Mark.....N/A

Model/Type reference .....: DS-310

Rating ..... : DC 3.7V From battery and DC 5.0V From external circuit

Result....: PASS



CTATEST!

## TEST REPORT

TEST

Equipment under Test : Eye Massager

Model /Type : DS-310

Listed Models : DS-310-YK, DS-310C, DS-313, DS-313C

The PCB board, circuit, structure and internal of these models are the

same, Only model number and colour is different for these model.

Applicant : Foshan Dashi Technology Co., Ltd.

Address : No.21-2, Deng's Family, Shuikou, Liuchao Community, Lishui Town,

Nanhai District, Foshan City, China

Manufacturer : Foshan Dashi Technology Co., Ltd.

Address : No.21-2, Deng's Family, Shuikou, Liuchao Community, Lishui Town,

Nanhai District, Foshan City, China

Test Result: PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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# 1 TEST STANDARDS

The tests were performed according to following standards:

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices

# SUMMARY

#### 2.1 **General Remarks**

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Date of receipt of test sample	61	Apr. 11, 2025		TING
				-ESI"
Testing commenced on	:	Apr. 11, 2025	ATA	1
			Carl C	
Testing concluded on	:	Apr. 17, 2025		

	Testing commenced on	: Apr. 11, 2025
	Testing concluded on	: Apr. 17, 2025
	2.2 Product Descript	ion
TESTIN	Product Name:	Eye Massager
STA	Model/Type reference:	DS-310
	Power supply:	DC 3.7V From battery and DC 5.0V From external circuit
	Hardware version:	V1.0
	Software version:	V1.0
	Testing sample ID:	CTA250411014-1# (Engineer sample) CTA250411014-2# (Normal sample)
	Bluetooth :	
	Supported Type:	Bluetooth BR/EDR
	Modulation:	GFSK, π/4DQPSK
	Operation frequency:	2402MHz~2480MHz
	Channel number:	79
	Channel separation:	1MHz
	Antenna type:	PCB antenna
	Antenna gain:	-0.68dBi

#### **Special Accessories** 2.3

The following is the EUT test of the auxiliary equipment provided by the laboratory:

The following to the Edit took of the daxinary equipment provided by the laberatory.						
Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by	
Adapter	1	EP-TA20CBC	Input: AC 100-240V 50/60Hz Output: DC 5V 2A	/	1	
<ul><li>2.4 Modifications</li><li>No modifications were implemented to meet testing criteria.</li></ul>					TATES	

#### **Modifications** 2.4

No modifications were implemented to meet testing criteria. CTA TESTING

Shenzhen CTA Testing Technology Co., Ltd.

# 3 TEST ENVIRONMENT

### 3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street. Bao'an District. Shenzhen. China

### 3.2 Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

#### A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

# 3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd.:

Test	Range	Measurement Uncertainty	Notes	
Radiated Emission	9KHz~30MHz	3.02 dB	(1)	
Radiated Emission	30~1000MHz	4.06 dB	(1)	
Radiated Emission	1~18GHz	5.14 dB	(1)	
Radiated Emission	18-40GHz	5.38 dB	(1)	TESTING
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)	ES!
Output Peak power	30MHz~18GHz	0.55 dB	(1)	
Power spectral density	/	0.57 dB	(1)	
Spectrum bandwidth	/	1.1%	<b>(1)</b>	
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)	
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)	
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)	
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# 4 Test limit

### 4.1 Requirement

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 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 Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.23 " [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)]  $\cdot$  [  $\sqrt{f}$  (GHz)]  $\leq$  3.0 for 1-g SAR and  $\leq$  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
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

#### 4.2 Conducted Power Results

Туре	Channel	Output power (dBm)
TATES.	00	0.33
GFSK	39	-0.19
	78	-0.46
	00	-0.47
π/4DQPSK	39	-0.98
	78	-1.23
TATESTING	TATESTING	TING

### Manufacturing tolerance

GFSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	0.0	0.0	0.0				
Tolerance ±(dB)	1.0	1.0	1.0				
	π/4DQPSK (Peak)						
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	-1.0	-1.0	-1.0				
Tolerance ±(dB)	1.0	1.0	1.0				

#### **Evaluation Result**

**Evaluation Results** 

ı	Band/Mode f (GHz)		Distance (includin		out power ng tune-up rance)	SAR Test Exclusion Threshold	SAR Test Exclusion	
			(111111)	dBm	mW	Tillesiloid		TING
	BT	2.450	5	1.0	1.2589	0.3941<3.0	Yes	9
4.5 Simultaneous Transmission for SAR Exclusion								-

#### **Simultaneous Transmission for SAR Exclusion**

N/A

# 5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D01v06

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