

Shenzhen CTA Testing Technology Co., Ltd.

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

11/2~	Exposure evaluation
Report Reference No	CTA25040901602
FCC ID:	2A6YS-WR303
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Date of issue	Apr. 15, 2025
Testing Laboratory Name:	Shenzhen CTA Testing Technology Co., Ltd.
Address	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Communit Fuhai Street, Baoʻan District, Shenzhen, China
Applicant's name:	Shenzhen Weier Technology Co., Ltd.
Address	Yinmandi Industrial Building, Dongkengm, Fenghuang Street, Guangming District, Shenzhen, Guangdong, China
-NG	47CFR §1.1310
Standard:	47CFR §2.1093
ATATL	KDB447498 D01 General RF Exposure Guidance v06
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	Bluetooth keyboard case
Test item description:	
Test item description Manufacturer	Shenzhen Weier Technology Co., Ltd.
	600
Manufacturer	Shenzhen Weier Technology Co., Ltd.
Manufacturer	Shenzhen Weier Technology Co., Ltd. N/A WR303 Input: 5V === 1.0A Battery: 3.7V, 500mAh, 1.85Wh
Manufacturer Trade Mark Model/Type reference	Shenzhen Weier Technology Co., Ltd. N/A WR303 Input: 5V === 1.0A

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TEST REPORT

TATES	
Equipment under Test	: Bluetooth keyboard case
Model /Type	: Bluetooth keyboard case : WR303
Listed Models	 WR253, WR232, WR201, WR256, WR210, WR236, WR320, WR267, WR030, WR276, WR237, WR238, WR240, WR242, WR241, WR239, WR273, WR274, WR275
Model difference	The PCB board, circuit, structure and internal of these models are the same, Only model number and colour is different for these model.
Applicant	: Shenzhen Weier Technology Co., Ltd.
Address	: Yinmandi Industrial Building, Dongkengm, Fenghuang Street, Guangming District, Shenzhen, Guangdong, China
Manufacturer	: Shenzhen Weier Technology Co., Ltd.
Address	: Yinmandi Industrial Building, Dongkengm, Fenghuang Street, Guangming District, Shenzhen, Guangdong, China
Test R	esult: PASS
The test report mer It is not permitted t the test laboratory.	ly corresponds to the test sample. copy extracts of these test result without the written permission of
	Model /Type Listed Models Model difference Applicant Address Manufacturer Address The test report mere It is not permitted to

CTATES Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

Report No.:CTA25040901602

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CTATESTING

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

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2 SUMMARY

2.1 **General Remarks**

Date of receipt of test sample	1	Apr. 09, 2025		
	5			
Testing commenced on	:	Apr. 09, 2025		
No.			C/r	
Testing concluded on	:	Apr. 15, 2025	CTA)	

2.2 Product Description

Product Name: Model/Type reference:	Bluetooth keyboard case	
Model/Type reference:		
	WR303	
Power supply:	Input: 5V === 1.0A Battery: 3.7V, 500mAh, 1.85Wh	
Hardware version:	V1.0	
Software version:	V1.0	
Testing sample ID:	CTA250409016-1# (Engineer sample) CTA250409016-2# (Normal sample)	
Bluetooth BLE		
Supported type:	Bluetooth low Energy	
Modulation:	GFSK	
Operation frequency:	2402MHz to 2480MHz	
Channel number:	40	
Channel separation:	2 MHz	
Antenna type:	PCB antenna	
Antenna gain:	-1.2 dBi	

Special Accessories 2.3

				CT			
	2.3 Spec	ial Accesso	ries				
	The following	is the EUT test	t of the auxiliary of	equipment provided by the	e laboratory:		G V
TESTING	Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by	
CTAT	PC	1	E470C	/	/	/	
		TES		•	-	•	-

Modifications 2.4

No modifications were implemented to meet testing criteria.

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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)	NG
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)	STIN
Output Peak power	30MHz~18GHz	0.55 dB	(1)	1E-
Power spectral density	/	0.57 dB	(1)	
Spectrum bandwidth	/	1.1%	(1)	
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)	
GTA CTA	TEC	CTATEST	NG	

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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.

CTATESTIN^G4.2 Conducted Power Results

Туре	Channel	Output power (dBm)
C.	00 TES	-3.36
GFSK 1Mbps	19	-3.89
	39	-4.16

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Manufacturing tolerance 4.3

Mode Max. Peak Conducted Output Power (dBm)		Max. tune-up
BLE	-3.36	-3.0±1
		CTATES.
4.4 Evaluation R	esult	

Evaluation Result 4.4

Evaluation Results RF output power SAR Test Antenna (including tune-up **SAR Test** Band/Mode f (GHz) Distance Exclusion tolerance) Exclusion Threshold (mm) dBm mW BLE 2.480 5 -2.0 0.6310 0.1987<3.0 Yes

4.5 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

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